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TECHNICAL MEMORANDUM

To: Kristine Iazzetta, NJDEP

From: Erin Palko, Integral Consulting Inc., and Scott Drew, Geosyntec Consultants

Date: November 11, 2022

Subject: Solvay Specialty Polymers USA, LLC
SRP PI No. 015010; LSR220001

Integral Consulting Inc. (Integral) has prepared this technical memorandum to summarize the results of offsite groundwater sampling conducted in May and July 2022 for monofunctional and bifunctional surfactants (MFS [chloro-perfluoropolyether carboxylic acids] and BFS [perfluoropolyether dicarboxylic acids]). This was a subsequent step taken by Solvay as part of the analytical method study to develop Project-Specific Acceptance Criteria (PSAC Study) following collection and analysis of groundwater at the Solvay, West Deptford, New Jersey facility (Facility; Figure 1). The first phase of the PSAC Study was completed in November 2021 in monitoring wells located at the Facility and within the property boundary.

The objective of this second phase of the PSAC Study was to develop precision and accuracy data from environmental samples with lower concentrations of MFS, BFS and other constituents than samples previously collected from the groundwater wells at the Facility. The second phase data was generated from monitoring wells located off-property. Data generated from environmental samples of groundwater were and continue to be needed for Eurofins Lancaster Laboratories Environmental (ELLE) to properly assess the method and results. Following completion of the sampling event summarized at the end of this memo, it is anticipated that as part of the proposed deliverable, ELLE will include a full summary assessment of its method. In addition to meeting the method verification and quality assurance objectives for this work, these data will be used to begin the process of delineating the extent of these compounds in groundwater near the Facility.

The method and the results are presented in the nomenclature established by ELLE in developing the analytical method for Solvay; a summary table is included below with the

laboratory nomenclature and corresponding New Jersey Department of Environmental Protection (NJDEP) oligomer.

Laboratory Nomenclature Reference

Laboratory Nomenclature (ELLE)	Molecular Formula	NJDEP Nomenclature (Ethyl, Propyl)
MFS_N2	C ₈ ClF ₁₄ O ₄	(0,1)
MFS_M3	C ₁₀ ClF ₁₈ O ₅	(1,1)
MFS_N3	C ₁₁ ClF ₂₀ O ₅	(0,2)
MFS_M4	C ₁₃ ClF ₂₄ O ₆	(1,2)
MFS_N4	C ₁₄ ClF ₂₆ O ₆	(0,3)
MFS_N5	C ₁₇ ClF ₃₂ O ₄	(0,4)

METHOD STUDY

A summary of the second phase PSAC Study, results, and additional sampling completed are presented below. In addition, the next phase of this work is described.

Groundwater Characterization Activities

Integral and Geosyntec Consultants previously submitted a technical memorandum to NJDEP dated April 28, 2022, to outline the most recent data collected as part of the first phase of the PSAC Study (Attachment A). Included in that technical memorandum was the following group of monitoring wells selected to be sampled as part of the “Next Steps” of the investigation: MW-101S/D, MW-106S/D, MW-109S/D, MW-110S/D, MW-111S/D, MW-112S/D, and MW-124S/D (Figure 1).

These monitoring wells were targeted for initial sampling as they fit the following criteria: 1) the wells are located outside of the footprint of the volatile organic compound plume and 2) historical perfluorononanoic acid concentrations identified at these monitoring wells range from less than 0.010 µg/L to greater than 2 µg/L. The data collection effort was designed to be an intermediate step prior to initiation of larger data collection efforts to develop data for evaluation of precision, accuracy, and usability of MFS and BFS sample results, which is described in the last section of this memorandum.

Samples were collected from the initial 14 monitoring wells in May 2022. Following the May 2022 sampling, an additional 23 monitoring well locations were selected to provide a better understanding of groundwater conditions: MW-19S/I/D, MW-33S, MW-36D, MW-38D, MW-39S/I/D, MW-41D, MW-42D, MW-43I/D, MW-102S/D, MW-103S/D, MW-107S/D, MW-113S/D, and MW-118S/D. A map and overview of this supplemental

work was provided to the NJDEP by the Licensed Site Remediation Professional (LSRP) on June 24, 2022, prior to initiation of the work.

The initial 14 monitoring wells and the additional 23 monitoring wells were sampled in July 2022 (Figure 1). Monitoring well location MW-44D was also proposed for sampling during the July event, but the property recently changed ownership and access could not be reconfirmed. Therefore, the well was not sampled in July.

During each Phase 2 PSAC Study sampling event, groundwater samples were obtained using low-flow purge methods by qualified field personnel following the NJDEP Field Sampling Procedures and Integral's Standard Operating Procedures for Analyze-Immediately Parameters (Laboratory Certification Number 03060). All samples were submitted for analysis of MFS and BFS by the following methods: Bi-functional Surfactants and Mono-functional Surfactants by ELLE Standard Operating Procedures for MFS and BFS IDA.

The following quality assurance and quality control samples for MFS and BFS were collected:

- During each event, one blind field duplicate (labeled with a unique sample identification), one matrix spike, and one matrix spike duplicate sample were collected from each of two monitoring well locations to document the accuracy and precision of the method and to assess if matrix interference was suppressing recovery of the spiked compound.
- During each event, one equipment blank was collected per day of field sampling for each media for non-dedicated sampling equipment.
- One ambient blank was collected for each sampling event.

Following receipt of analytical data for the May groundwater sampling, the data were submitted to Laboratory Data Consultants, Inc. (LDC) for Stage 2B data validation, including an evaluation of quality control summary results.

Analytical data from the July groundwater sampling event were submitted to EcoChem Data Quality (EcoChem) instead of LDC because LDC could not meet the requested 4-week turnaround time. The change in data validation consultant will be updated in the quality assurance project plan (QAPP) with the next major submittal to NJDEP.

Phase 2 PSAC Method Results—May Groundwater Sampling

Samples were collected from 14 monitoring wells: MW-101S/D, MW-106S/D, MW-109S/D, MW-110S/D, MW-111S/D, MW-112S/D, and MW-124S/D. Results are summarized on Table 1. The laboratory analytical data packages and corresponding data validation report for the May groundwater sampling are included in Attachment B. A summary of sampling results for MFS compounds is as follows:

- The most downgradient monitoring wells sampled during this event, MW-112S and MW-112D, reported no detections of MFS compounds in groundwater samples.
- MFS_N2 was detected in 12 of the 14 sampled monitoring wells. Detections ranged between 0.0016 µg/L (MW-109D) and 1.1 µg/L (MW-111S).
- MFS_N3 was detected in 5 of the 14 sampled monitoring wells with reported concentrations ranging between 0.0069 µg/L (MW-101S) and 0.044 µg/L (MW-106D duplicate sample).
- MFS_M3 was detected in 6 of the 14 sampled monitoring wells. Detections ranged between 0.0014 µg/L (MW-101S) and 0.029 µg/L (MW-111S).
- MFS_N4 was only detected in the duplicate sample collected at MW-106D. The observed concentration was an estimated value of 0.0013 µg/L.
- All other MFS compounds were reported as not detected in all groundwater samples.

Although some conformance issues were identified by the laboratory, objectives of the PSAC Study were met regarding method reporting limits and detection limits. The analytical data for the May event were previously submitted by the LSRP via electronic communications dated June 24, 2022. A summary of the data validation for the May sampling event is presented below:

- The analysis was conducted within specifications of the method.
- The proposed method reporting limits for MFS and BFS in groundwater were within the limits presented in the QAPP.
- Due to matrix spike and matrix spike duplicate (MS/MSD) percent recovery differences outside of the quality assurance and quality control range, several samples were qualified with a “J” indicating the concentration is estimated, with bias (low bias in sample where the MS/MSD recovery was below the percent recovery of 70% and high bias where the MS/MSD recovery was above 130%). For location MW-106S, the MFS_N2 result was biased high. At location MW-106D,

BFS_A2B2, and BFS_AB3 were biased high, and MFS_N2 and MFS_N3 were biased low.

- The laboratory control sample (LCS) recoveries were within quality control limits for all MFS compounds. The BFS_A3B2 results for MW-110S, MW-109S, MW-111S, and MW-111D were biased high due to elevated recovery results.

Phase 2 PSAC Method Results—July Groundwater Sampling

Samples were collected from the following monitoring wells: MW-19S/I/D, MW-33S, MW-36S, MW-38D, MW-39S/I/D, MW-41D, MW-42D, MW-43I/D, MW-101S/D, MW-106S/D, MW-109S/D, MW-110S/D, MW-111S/D, MW-112S/D, and MW-124S/D. Prior to performance of the work, a map and overview of the work to be completed were provided to NJDEP by the LSRP on June 24, 2022. Although proposed, a sample from the offsite hydraulic containment treatment system was postponed due to system maintenance, and monitoring well MW-44D was not sampled due to ongoing access agreement negotiations with the property owner. Results are summarized on Table 1. The laboratory analytical data packages and associated data validation report for the July groundwater sampling are included in Attachment C. The summary of sampling results for MFS compounds is as follows:

- Monitoring wells MW-112S and MW-112D reported no detections of MFS compounds in groundwater samples in the July sampling consistent with the May sampling. Monitoring well MW-113D also reported no detections of MFS compounds and MFS_N2 was detected below the Interim Specific Groundwater Quality Criteria at MW-113S.
- MFS_N2 was detected in 13 of the 14 shallow monitoring wells. Detections ranged between 0.00059 µg/L (MW-118S) and 1.4 µg/L (MW-111S). MFS_N2 was detected in 16 of the 21 intermediate/deep monitoring wells. Detections ranged between 0.0016 µg/L (MW-124D) and 12 µg/L (MW-19D).
- MFS_N3 was detected in 6 of the 14 shallow monitoring wells with reported concentrations ranging between 0.00045 µg/L (MW-106S) and 0.011 µg/L (MW-111S). MFS_N3 was detected in 11 of the 21 intermediate/deep monitoring wells with reported concentrations ranging between 0.00029 µg/L (MW-118D) and 0.025 µg/L (MW-36D).
- MFS_M3 was detected in 4 of the 14 shallow monitoring wells. Detections ranged between 0.00053 µg/L (MW-39S) and 0.028 µg/L (MW-111S). MFS_M3 was detected in 11 of the 21 intermediate/deep monitoring wells. Detections ranged between 0.00026 µg/L (MW-107D) and 0.240 µg/L (MW-19D).

- MFS_N4 was detected at 0.0011 µg/L in sample MW-106S and 0.00086 µg/L in sample MW-103D.
- All other MFS compounds were reported as not detected in all groundwater samples.

Although some conformance issues were identified by the laboratory, objectives of the PSAC Study were met regarding method reporting limits and detection limits. A summary of the data validation completed for the July sampling event is presented below:

- The analysis was conducted within specifications of the method.
- The proposed method reporting limits for MFS and BFS in groundwater were within the limits presented in the QAPP.
- Four samples were re-extracted due to low surrogate recoveries (MW-39S, MW-39I, MW-39D, and EB_071322) 1 day outside of the 28-day hold time and therefore were qualified as estimated values.
- Due to MS/MSD percent recovery differences outside of range, several samples were qualified with a "J" indicating the concentration is estimated, with bias (low bias in sample where the MS/MSD recovery was below the percent recovery of 70% and high bias where the MS/MSD recovery was above 130%). For location MW-102D, the BFS_AB2, BFS_AB3, and BFS_B3 were biased high.
- The LCS recoveries were within quality control limits for all MFS compounds. The BFS_AB2 results for MW-19S, MW-19I, MW-19D, MW-33S, MW-38D, MW-41D, MW-43I, and MW-43D were biased high due to elevated recovery results.

OFFSITE HYDRAULIC CONTAINMENT SYSTEM SAMPLING

The offsite hydraulic containment sample was collected in August 2022. The sample was collected from the influent port to the system, which is a combination of water extracted from the recovery wells.

MFS_N2 was detected in the sample at a concentration of 0.0058 µg/L. No other MFS compounds were detected, and the data validation report showed that the analysis was conducted within the specifications of the method. The laboratory analytical data packages and associated data validation report for the August sampling are included in Attachment D.

PSAC METHOD CONCLUSIONS AND NEXT STEPS

The results of the May and July groundwater sampling demonstrate that the MFS and BFS methods provide data appropriate for characterization of groundwater. The accuracy of the methods is demonstrated by the recoveries of labeled compounds added to all samples, by the recoveries of the MFS and BFS compounds spiked into the LCS and MS/MSD samples, and by the field and laboratory blanks. Precision is demonstrated by the relative percent differences for the MS/MSD and field duplicate samples. The relatively consistency in results for locations sampled in both the May and July events further demonstrates the precision of the methods. Some recoveries in the MS/MSDs do indicate the potential for matrix interferences to cause high bias in BFS results and both low and high bias in MFS results. The possibility of matrix interferences will be monitored in future sampling events.

Based on the stated objectives of the PSAC Study and the results of the Phase 2 PSAC sampling, MFS and BFS sampling was included in a comprehensive sampling event being carried out in September and October 2022.

The LSRP verbally communicated to NJDEP on September 8, 2022, the proposed groundwater sampling program and further communicated with NJDEP regarding the additional data collection on the monthly project call conducted on October 13, 2022.

Monitoring wells sampled as part of the characterization event conducted in September and October (Figure 2) include well clusters identified as MW-102 through MW-127 as well as the following (a total of 111 wells):

- M/H-2D
- MW-1D
- MW-5I
- MW-6I
- MW-10I
- MW-16S
- MW-19S/I/D
- MW-24I/D
- MW-25S/IU/IL
- MW-26S/IL/D
- MW-27S/IU
- MW-28S/IL
- MW-29S/IU
- MW-30D/IL/IU/S
- MW31S/IU
- MW-32S
- MW-33S
- MW-34IL/D
- MW-35D/I
- MW-34IL/D
- MW-36D
- MW-37S/D
- MW-38D
- MW-39S/I/D
- MW-40S/I
- MW-41D
- MW-42D
- MW-43I/D
- MW-44D
- P-2S
- P-6S
- P-3S/I/D
- PZ-5
- PZ-6
- PZ-8

Samples from each well were collected per the most recent revision of the field sampling plan and were analyzed for MFS and BFS and per- and polyfluoroalkyl substances, in

accordance with the most updated revision of the project QAPP. Additionally, a second influent sample was collected from the offsite hydraulic containment treatment system to confirm results of initial sampling.

Monitoring wells MW-101S and MW-101D were not included in this event because during the sampling events conducted in 2022, the measured turbidity in each of the wells had very high initial readings (above 500 NTU) and did not consistently stabilize, even at decreased flow rates, indicating that the monitoring wells require maintenance.

Following receipt of data from the laboratory and data validators, a summary of groundwater remedial investigation activities will be prepared and submitted to NJDEP. This submission will also include an update to the project's conceptual site model. The remedial investigation update will be submitted during the first quarter of 2023.

Figures

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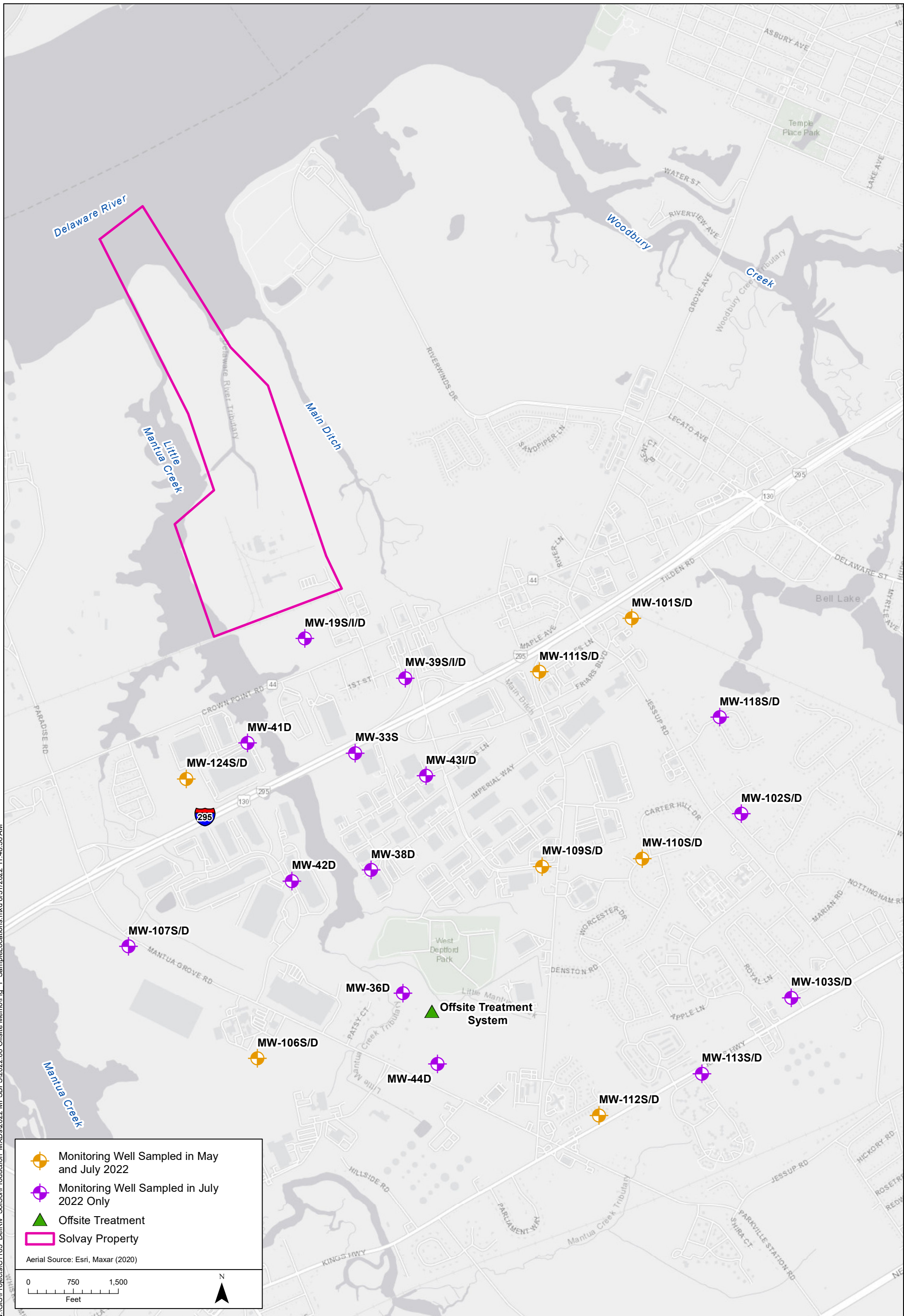
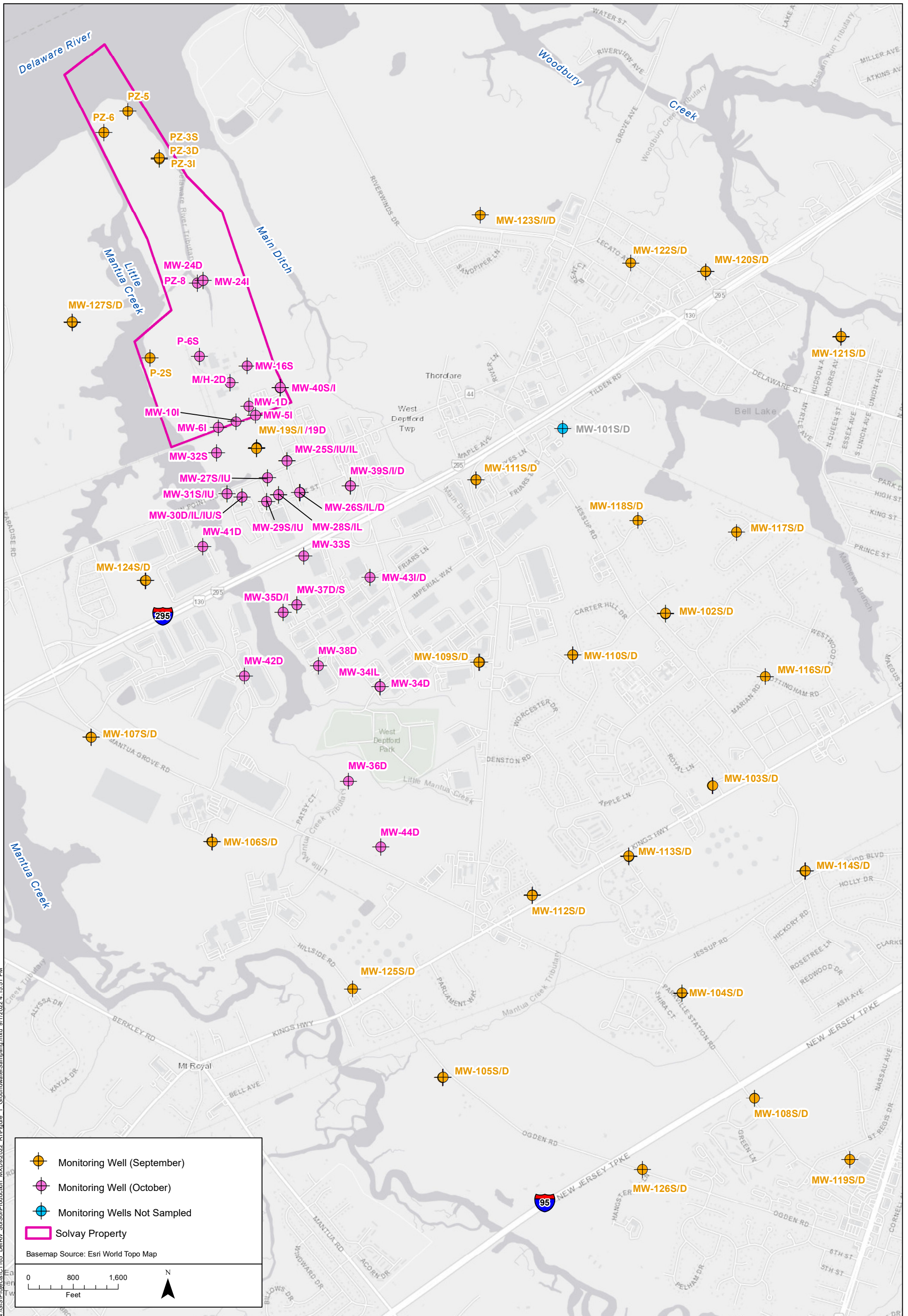


Figure 1.
Groundwater Sampling Locations
May and July 2022



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- Monitoring Well (September)
- Monitoring Well (October)
- Monitoring Wells Not Sampled
- Solvay Property

Basemap Source: Esri World Topo Map

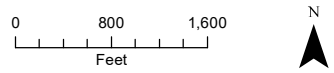


Figure 2.
September and October 2022 Monitoring
Wells to be Sampled

Note:
1. MW-101 cluster requires redevelopment and will not be sampled.

Tables

Table 1. Groundwater Analytical Results

NJDEP ISGWQC	MW-101S				MW-101D				MW-102S DUP2_070722				MW-102D		MW-103S		MW-103D		MW-106D			
	5/10/2022 Result	7/8/2022 Result	5/10/2022 Result	7/8/2022 Result	7/7/2022 Result	7/7/2022 Result	7/7/2022 Result	7/7/2022 Result	7/6/2022 Result	7/7/2022 Result	5/11/2022 Result	5/11/2022 Result	7/7/2022 Result	7/7/2022 Result	5/11/2022 Result	5/11/2022 Result	7/7/2022 Result	7/7/2022 Result				
Monofunctional Surfactant (ng/L)																						
MFS_N2 (0,1)	2	20	16	44	15	4.3	3.7	17	12	5.1	65 J	77	8.8	8.1								
MFS_M3 (1,1)	2	1.4	0.18 U	6.5	2.2	0.16 U	0.16 U	8.2 J	3	0.87	16	18	2.8	2.3								
MFS_N3 (0,2)	2	6.9	0.18 U	16	9.6	0.16 U	0.16 U	8.9 J	8.7	4.4	40 J	44	12	10								
MFS_M4 (1,2)	2	0.43 U	0.45 U	0.45 U	0.46 U	0.41 U	0.41 U	0.45 U	0.42 U	0.42 J	0.42 U	0.48 J	0.4 U	0.45 U								
MFS_N4 (0,3)	2	0.86 U	0.9 U	0.9 U	0.92 U	0.81 U	0.82 U	0.9 U	0.84 U	0.86 J	0.85 U	1.3 J	0.8 U	0.89 U								
MFS_N5 (0,4)	2	1.7 U	1.8 U	1.8 U	1.8 U	1.6 U	1.6 U	1.8 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.8 U								
Bifunctional Surfactant (ng/L)																						
BFS_A2B2	NA	1.5	1.7	1.2	0.65 J	0.34 U	0.35 U	0.33 U	0.35 U	11	0.39 J	0.43 J	0.32 U	0.35 U								
BFS_A2B3	NA	0.35 U	0.36 U	0.35 U	0.35 U	0.34 U	0.35 U	0.33 U	0.35 U	0.35 U	0.33 U	0.33 U	0.32 U	0.35 U								
BFS_A3B	NA	0.72	0.7	0.64	0.37 J	0.17 U	0.18 U	0.16 U	0.17 U	1.6	0.16 U	0.17 U	0.16 U	0.18 U								
BFS_A3B2	NA	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.16 U	0.17 U	2.1	0.16 U	0.17 U	0.16 U	0.18 U								
BFS_A4B	NA	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.16 U	0.17 U	0.92	0.16 U	0.17 U	0.16 U	0.18 U								
BFS_AB2	NA	2.2	1.8	5	3.1	0.069 U	0.07 U	0.34 J	0.28 J	1.6	0.066 U	0.067 U	0.064 U	0.071 U								
BFS_AB3	NA	1.1 J	0.68 J	1.3	0.77 J	0.34 U	0.35 U	0.42 J	0.35 UJ	12	0.57 J	0.68 J	0.32 U	0.35 U								
BFS_B3	NA	2.3	2.1	1.6	0.97	0.26 U	0.26 U	0.4 J	0.26 U	5.4	0.25 U	0.25 U	0.24 U	0.26 U								
BFS_B4	NA	0.35 U	0.36 U	0.35 U	0.35 U	0.34 U	0.35 U	0.33 U	0.35 U	2.7	0.33 U	0.33 U	0.32 U	0.35 U								

Notes:
 NJDEP ISGWQC = New Jersey Department of Environmental Protection Interim Standard Ground Water Quality Criteria
Bold Sample Result = Reported Result Exceeds ISGWQC
 Q = Laboratory qualifier
 U = Not detected
 J = Result estimated

Table 1. Groundwater Analytical Results

NJDEP ISGWQC	MW-106S						MW-107S	MW-107D	MW-109S				MW-109D				MW-110S				MW-110D					
	MW-106S		DUP2_05112022		MW-106S		7/8/2022	7/8/2022	5/10/2022		7/8/2022		5/10/2022		7/8/2022		5/9/2022		7/11/2022		5/9/2022		7/11/2022			
	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
Monofunctional Surfactant (ng/L)																										
MFS_N2 (0,1)	2	0.75 J		1.2		2.2		0.17 U		2.2		640		730		1.6		0.18 U		89		84		15		14
MFS_M3 (1,1)	2	0.19 U		0.19 U		0.19 U		0.17 U		0.26 J		7.7		0.76 J		0.17 U		0.18 U		0.15 U		0.18 U		0.17 U		0.17 U
MFS_N3 (0,2)	2	0.19 U		0.4 J		0.45 J		1.2		1.4		12		0.18 U		0.17 U		0.18 U		0.15 U		0.18 U		0.17 U		0.17 U
MFS_M4 (1,2)	2	0.48 U		0.48 U		0.46 U		0.42 U		0.4 U		0.49 U		0.45 U		0.43 U		0.46 U		0.39 U		0.44 U		0.43 U		0.44 U
MFS_N4 (0,3)	2	0.95 U		0.96 U		1.1 J		0.85 U		0.8 U		0.97 U		0.9 U		0.85 U		0.91 U		0.77 U		0.89 U		0.85 U		0.87 U
MFS_N5 (0,4)	2	1.9 U		1.9 U		1.9 U		1.7 U		1.6 U		1.9 U		1.8 U		1.7 U		1.8 U		1.5 U		1.8 U		1.7 U		1.7 U
Bifunctional Surfactant (ng/L)																										
BFS_A2B2	NA	0.38 U		0.37 U		0.35 U		0.33 U		0.35 U		84		150		0.37 U		0.34 U		24		35		0.42 J		0.5 J
BFS_A2B3	NA	0.38 U		0.37 U		0.35 U		0.33 U		0.35 U		78		100		0.37 U		0.34 U		9.4		8.4		0.36 U		0.36 U
BFS_A3B	NA	0.19 U		0.19 U		0.17 U		0.17 U		0.17 U		10		16		0.18 U		0.17 U		1.4		1.5		0.18 U		0.18 U
BFS_A3B2	NA	0.19 U		0.19 U		0.17 U		0.17 U		0.17 U		44 J		59		0.18 U		0.17 U		7.4 J		7.8		0.18 U		0.18 U
BFS_A4B	NA	0.19 U		0.19 U		0.17 U		0.17 U		0.17 U		9.5		13		0.18 U		0.17 U		2.2		2.3		0.18 U		0.18 U
BFS_AB2	NA	0.076 U		0.075 U		0.07 U		0.067 U		0.069 U		25		37		0.074 U		0.067 U		3.9		4.6		0.071 U		0.072 U
BFS_AB3	NA	0.38 U		0.37 U		0.35 U		0.33 U		0.35 U		330		400		0.37 U		0.34 U		95		95		1.4		1.8
BFS_B3	NA	0.29 U		0.28 U		0.26 U		0.25 U		0.26 U		78		110		0.28 U		0.25 U		17		19		0.27 U		0.4 J
BFS_B4	NA	0.38 U		0.37 U		0.35 U		0.33 U		0.35 U		170		210		0.37 U		0.34 U		43		45		0.48 J		0.5 J

Notes:
 NJDEP ISGWQC = New Jersey Department of Environmental Protection Interim Standard Ground Water Quality Criteria
Bold Sample Result = Reported Result Exceeds ISGWQC
 Q = Laboratory qualifier
 U = Not detected
 J = Result estimated

Table 1. Groundwater Analytical Results

NJDEP ISGWQC	MW-111S				MW-111D				MW-112S			MW-112D		MW-113S	MW-113D	MW-118S	MW-118D
	5/12/2022 Result	7/11/2022 Result	5/12/2022 Result	7/11/2022 Result	5/9/2022 Result	7/6/2022 Result	7/6/2022 Result	5/9/2022 Result	7/6/2022 Result	7/7/2022 Result	7/7/2022 Result	7/8/2022 Result	7/8/2022 Result				
Monofunctional Surfactant (ng/L)																	
MFS_N2 (0,1)	2	1100	1100	240	240	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.91 J	0.17 U	0.59 J	0.17 U
MFS_M3 (1,1)	2	29	28	1.9	1.9	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.19 U	0.17 U	0.16 U	0.17 U
MFS_N3 (0,2)	2	11	11	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.19 U	0.17 U	0.16 U	0.29 J
MFS_M4 (1,2)	2	0.43 U	0.46 U	0.41 U	0.44 U	0.43 U	0.42 U	0.43 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.47 U	0.42 U	0.41 U	0.42 U
MFS_N4 (0,3)	2	0.86 U	0.91 U	0.82 U	0.87 U	0.87 U	0.84 U	0.85 U	0.83 U	0.85 U	0.84 U	0.85 U	0.84 U	0.94 U	0.84 U	0.82 U	0.84 U
MFS_N5 (0,4)	2	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.6 U	1.7 U
Bifunctional Surfactant (ng/L)																	
BFS_A2B2	NA	120	240	31	55	0.35 U	0.32 U	0.32 U	0.37 U	0.32 U	0.34 U	0.32 U	0.34 U	0.32 U	0.32 U	0.34 U	0.35 U
BFS_A2B3	NA	22	1.3	32	29	0.35 U	0.32 U	0.32 U	0.37 U	0.32 U	0.34 U	0.32 U	0.34 U	0.32 U	0.32 U	0.34 U	0.35 U
BFS_A3B	NA	23	45	2.7	4.2	0.17 U	0.16 U	0.16 U	0.18 U	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U	0.17 U	0.17 U
BFS_A3B2	NA	20 J	13	16 J	18	0.17 U	0.16 U	0.16 U	0.18 U	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U	0.17 U	0.17 U
BFS_A4B	NA	9.6	15	3	4.1	0.17 U	0.16 U	0.16 U	0.18 U	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U	0.17 U	0.17 U
BFS_AB2	NA	23	50	7	11	0.069 U	0.065 U	0.065 U	0.074 U	0.065 U	0.068 U	0.064 U	0.068 U	0.064 U	0.064 U	0.067 U	0.07 U
BFS_AB3	NA	180	130	150	170	0.35 U	0.32 U	0.32 U	0.37 U	0.32 U	0.34 U	0.32 U	0.34 U	0.32 U	0.32 U	0.34 U	0.35 U
BFS_B3	NA	84	130	25	37	0.26 U	0.24 U	0.24 U	0.28 U	0.24 U	0.26 U	0.24 U	0.26 U	0.24 U	0.24 U	0.25 U	0.26 U
BFS_B4	NA	50	5.5	76	80	0.35 U	0.32 U	0.32 U	0.37 U	0.32 U	0.34 U	0.32 U	0.34 U	0.32 U	0.32 U	0.34 U	0.35 U

Notes:
 NJDEP ISGWQC = New Jersey Department of Environmental Protection Interim Standard Ground Water Quality Criteria
Bold Sample Result = Reported Result Exceeds ISGWQC
 Q = Laboratory qualifier
 U = Not detected
 J = Result estimated

Table 1. Groundwater Analytical Results

	NJDEP ISGWQC	MW-124S		MW-124D		MW-19S	MW-19I	MW-19D	MW-33S	MW-36D	MW-38D	MW-39S	MW-39I
		5/11/2022 Result	7/11/2022 Result	5/11/2022 Result	7/11/2022 Result	7/12/2022 Result	7/12/2022 Result	7/12/2022 Result	7/12/2022 Result	7/11/2022 Result	7/12/2022 Result	7/13/2022 Result	7/13/2022 Result
Monofunctional Surfactant (ng/L)													
MFS_N2 (0,1)	2	42	25	3	1.6	1400	6300	12000	42	52	63	22	1600
MFS_M3 (1,1)	2	0.69 J	0.16 U	0.17 U	0.19 U	0.17 U	1.9 J	240	0.17 U	10	0.16 U	0.53 J	45
MFS_N3 (0,2)	2	0.19 U	0.16 U	0.17 U	0.19 U	1.7	1.2 J	18	0.17 U	25	0.16 U	1.9	13
MFS_M4 (1,2)	2	0.46 U	0.39 U	0.43 U	0.47 U	0.42 U	0.46 UJ	4.2 U	0.42 U	0.43 U	0.39 U	0.42 U	0.43 U
MFS_N4 (0,3)	2	0.93 U	0.79 U	0.85 U	0.94 U	0.85 U	0.93 UJ	8.5 U	0.85 U	0.86 U	0.78 U	0.85 U	0.86 U
MFS_N5 (0,4)	2	1.9 U	1.6 U	1.7 U	1.9 U	1.7 U	1.9 UJ	17 U	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U
Bifunctional Surfactant (ng/L)													
BFS_A2B2	NA	2	1.5	0.35 U	0.37 U	0.38 J	750	2200	2.4	0.88 J	10 J	1.7 J	330 J
BFS_A2B3	NA	0.38 U	0.32 U	0.35 U	0.37 U	0.33 U	8 J	340	0.35 U	0.33 U	0.34 U	0.35 UJ	7.7 J
BFS_A3B	NA	0.19 U	0.16 U	0.18 U	0.19 U	0.66	83	300	0.4 J	0.17 U	0.72 J	0.54 J	57 J
BFS_A3B2	NA	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	41	500	0.18 U	0.35 J	0.41 J	0.17 UJ	27 J
BFS_A4B	NA	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	33	180	0.18 U	0.17 U	0.47 J	0.17 UJ	24 J
BFS_AB2	NA	0.76	0.66	0.071 U	0.074 U	6.2 J	340 J	640 J	1.2 J	0.35 J	2.6 J	0.73 J	67 J
BFS_AB3	NA	3.9	1.6	0.35 U	0.37 U	0.39 J	800	3800	2.2	2.4	11 J	0.71 J	270 J
BFS_B3	NA	2	1.5	0.27 U	0.28 U	1.4	730	1400	2.1	0.65	6.9 J	1.2 J	200 J
BFS_B4	NA	0.6 J	0.32 U	0.35 U	0.37 U	0.43 J	60	1300	0.35 U	1.2	0.5 J	0.35 UJ	29 J

Notes:
 NJDEP ISGWQC = New Jersey Department of
 Environmental Protection Interim Standard
 Ground Water Quality Criteria
Bold Sample Result = Reported Result
 Exceeds ISGWQC
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Table 1. Groundwater Analytical Results

	NJDEP ISGWQC	MW-39D		MW-41D		MW-42D		MW-43I		MW-43D		Influent_081222	
		7/13/2022 Result	Q	7/12/2022 Result	Q	7/11/2022 Result	Q	7/12/2022 Result	Q	7/12/2022 Result	Q	8/12/2022 Result	Q
Monofunctional Surfactant (ng/L)													
MFS_N2 (0,1)	2	23		28		0.16 U		270		40		5.8	
MFS_M3 (1,1)	2	0.91		0.17 U		0.16 U		1.3		0.17 U		0.2 U	
MFS_N3 (0,2)	2	2.3		0.17 U		0.16 U		0.17 U		0.17 U		0.2 U	
MFS_M4 (1,2)	2	0.42 U		0.43 U		0.4 U		0.42 U		0.42 U		0.51 U	
MFS_N4 (0,3)	2	0.84 U		0.85 U		0.79 U		0.83 U		0.84 U		1 U	
MFS_N5 (0,4)	2	1.7 U		1.7 U		1.6 U		1.7 U		1.7 U		2 U	
Bifunctional Surfactant (ng/L)													
BFS_A2B2	NA	0.53 J		3.2		0.35 U		50		5.4		0.45 J	
BFS_A2B3	NA	0.34 UJ		1.1		0.35 U		9.1		0.34 U		0.38 U	
BFS_A3B	NA	0.17 UJ		0.25 J		0.18 U		5.7		0.41 J		0.19 U	
BFS_A3B2	NA	0.17 UJ		1		0.18 U		12		0.96		0.19 U	
BFS_A4B	NA	0.17 UJ		0.24 J		0.18 U		3.9		0.38		0.19 U	
BFS_AB2	NA	0.068 UJ		0.72 J		0.071 U		15 J		1.3 J		0.077 U	
BFS_AB3	NA	0.82 J		9.7		0.35 U		110		11		0.39 UJ	
BFS_B3	NA	0.26 UJ		2.3		0.27 U		39		4		0.29 U	
BFS_B4	NA	0.34 UJ		3.7		0.35 U		33		2.8		0.38 U	

Notes:

NJDEP ISGWQC = New Jersey Department of
 Environmental Protection Interim Standard
 Ground Water Quality Criteria

Bold Sample Result = Reported Result
 Exceeds ISGWQC

Q = Laboratory qualifier

U = Not detected

J = Result estimated

Attachment A

April 2022 Technical
Memorandum



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TECHNICAL MEMORANDUM

To: Kristine Iazzetta, NJDEP
From: Erin Palko, Integral Consulting; Scott Drew, Geosyntec Consultants
Date: April 28, 2022
Subject: Solvay Specialty Polymers USA, LLC
SRP PI No. 015010; LSR220001

Integral Consulting Inc. (Integral) has prepared this Technical Memorandum summarizing the results of the method study to develop Project-Specific Acceptance Criteria (PSAC Study) for the analysis of soil and groundwater for monofunctional surfactants (MFS), which are chloro-perfluoro-polyether carboxylic acids and bifunctional surfactants (BFS), which are perfluoropolyether dicarboxylic acids. The method study included the collection and analysis of samples of soil and groundwater at the Solvay, West Deptford, New Jersey facility (Facility, Figure 1). This PSAC Study is a critical intermediate step to develop precision and accuracy data from environmental samples. Previously, the methods developed by Eurofins Lancaster Laboratories Environmental (ELLE) had only been performed using spiked reagent water and/or laboratory grade sand for samples. Data generated from environmental samples of soil and groundwater was and continues to be needed to properly assess the method and results.

The initial soil and groundwater samples from the PSAC Study were collected in November 2021 with additional follow up collection events conducted in February and March 2022. A summary of the PSAC Study, results, and recommendations for additional method assessment steps are presented below.

As the method and the results are presented in the nomenclature established by ELLE in the analytical method, a summary table is included below with the laboratory nomenclature and corresponding oligomer.

Table 1. Laboratory Nomenclature Reference

Laboratory Nomenclature (Eurofins)	Molecular Mass	NJDEP Nomenclature (Ethyl, Propyl)
MFS_N2	C ₈ ClF ₁₄ O ₄	(0,1)
MFS_M3	C ₁₀ ClF ₁₈ O ₅	(1,1)
MFS_N3	C ₁₁ ClF ₂₀ O ₅	(0,2)
MFS_M4	C ₁₃ ClF ₂₄ O ₆	(1,2)
MFS_N4	C ₁₄ ClF ₂₆ O ₆	(0,3)
MFS_N5	C ₁₇ ClF ₃₂ O ₄	(0,4)

METHOD STUDY SOIL AND GROUNDWATER

Integral and Geosyntec Consultants previously submitted a Technical Memorandum to the New Jersey Department of Environmental Protection (NJDEP) dated November 12, 2021 to outline the PSAC Study for the analysis of MFS and BFS in soil and groundwater (Attachment A). The study was designed to be an intermediate step prior to initiation of larger data collection efforts to develop data for evaluation of precision, accuracy, and usability of MFS and BFS sample results.

Guidance from several sources was used to devise the study, including publicly available NJDEP reference documents (Data of Known Quality Protocols Technical Guidance and the Data Quality Assessment and Data Usability Evaluation Technical Guidance), EPA reference documents (the QA/QC guidance in Methods 8000d and 8327 from the Document, Test Methods for Evaluation Solid Waste; Physical/Chemical Methods Compendium [SW-846]), and the Project-Specific Quality Assurance Project Plan (QAPP) developed for the investigation submitted on May 27, 2021 (to be revised in response to NJDEP's November 10, 2021 comments and the results of this method assessment study). These documents were used to determine which laboratory performance criteria are evaluated to effectively assess the results of the sampling for data usability.

The objectives of the PSAC Study were as follows:

1. **Performance data:** Develop performance data for precision and bias in the matrices of interest. These data will include quality control (QC) criteria for matrix spike and field replicate samples including % recovery and relative percent difference (RPD), as applicable.

2. **Practical Quantitation Limits:** Determine the in-house practical quantitation limits for each target MFS and BFS that can be reliably achieved within specified limits of precision and accuracy for soils and groundwater by ELLE.

Soil Sample Collection

Three soil sample locations were selected to be representative of Facility conditions based on the observed historical perfluorononanoic acid (PFNA) concentration ranges (Integral, 2017). Samples were collected from the following locations: SB-MBFS-05, SB-MBFS-08, and SB-MBFS-16. Soil samples were collected from discrete 6-in. intervals every two feet (surface, 2-2.5 ft. bgs, etc.) to the top of the water table with the last sample collected from the interval 6-in. above the water table. All samples were submitted for analysis of MFS and BFS by method Bi-functional Surfactants and Mono-functional Surfactants by ELLE SOP MFS/BFS IDA.

Based on the results from the November sampling, additional samples were obtained in March 2022 in an area of impact. The locations of the November and March soil samples are shown on Figure 2, respectively.¹

Groundwater Sample Collection

Three groundwater sample locations were selected to be representative of Facility conditions based on the observed historical PFNA concentration ranges (Integral, 2017). Samples were collected from the following permanent monitoring wells: MW-2/D, MW-16S, and MW-40S. Groundwater samples were collected from each well using low-flow purge methods by qualified field personnel following the NJDEP Field Sampling Procedures and Integral's Standard Operating Procedures for Analyze-immediately Parameters (Laboratory Certification Number 03060).

Groundwater sample locations for the November sampling event are shown on Figure 3. All samples were submitted for analysis of MFS and BFS by method Bi-functional Surfactants and Mono-functional Surfactants by ELLE SOP MFS/BFS IDA. As explained below, based on review of the data from the November samples, additional samples were collected from 10 wells in February and March 2022. The locations of the wells sampled in February/March are also shown on Figure 3.

¹ The March results are currently being validated.

QA/QC Sample Program – Soil and Groundwater

The following QA/QC samples for MFS and BFS were collected:

- Five replicate groundwater samples were collected from M/H-2D.
- Five replicate soil samples were collected from the 0-0.5' interval at location SB21-05M.
- In one blind field duplicate (labeled with a unique sample identification), one matrix spike, and one matrix spike duplicate sample were collected from one sample location to document the accuracy and precision of the method and to assess if matrix interference is suppressing recovery of the spiked compound.
- One equipment blank was collected per day of field sampling for each media for non-dedicated sampling equipment.
- One ambient blank was collected per day of field sampling.

Following receipt of analytical data for the November soil sampling and the February/March groundwater sampling, these data were submitted to Laboratory Data Consultants, Inc. (LDC) for Stage 2B data validation, including an evaluation of QC summary results. The data validation reports are included as Attachment B. Laboratory data packages are included in Attachment C. In addition, Integral conducted a review of the nonconformance summaries included with each data package to evaluate where the laboratory specifically identified samples or laboratory quality control samples that did not conform to method specifications and would not meet the objectives of the PSAC Study.

Method Results - Soil

The data validation report and corresponding laboratory data package for the November soil sampling are included as Attachments B1 and C1, respectively. While conformance issues were identified by both the laboratory and the data validation process for performance data, objectives of the PSAC Study were met regarding establishing method reporting and method detection limits. A summary of the November PSAC Study performance metrics is presented below:

- The analysis was conducted within specifications of the method.
- The method reporting limits for MFS and BFS in soil were within the limits presented in the QAPP.

- Due to MS/MSD % recovery differences outside of range, data for the BFS analysis was rejected (as indicated with an "R" in the data validation report) in two samples: SB21-05M (0-0.5") and SB21-08M (0-0.5").
- Due to MS/MSD % recovery differences outside of range, several samples were qualified with a "J" indicating the concentration is estimated, with bias (low bias in sample where the MS/MSD recover was below the % recovery of 70% and high bias where the MS/MSD recovery was above 130%).
- Duplicate sample correlation between samples SB21-16M(0-0.5) and DUP-111821 was generally acceptable, with the MFS_M4, MFS_N4, and MFS_N3 analytes qualified with a "J" (no bias) due to the control limits reporting above 50% (as presented in the QAPP for nonaqueous samples).

As noted above, based on the results of the November PSAC study in soil, a second phase of the PSAC Study was completed. Soil samples from the area proximate to sample SB-21-5M were collected to further evaluate method performance against the QAPP criteria in an area that the initial results indicate was an area of impact. The samples were collected in March of this year and are currently being analyzed at ELLE. Once the sample results are validated, the data will be transmitted to the NJDEP.

On April 8, 2022, the validated data for MFS analytes in soil from the November sampling event were the basis for the confirmed discharge of MFS at the site reported to the NJDEP by the LSRP. Tracking number 22-04-08-1354-45 was established for this discharge.

Method Results - Groundwater

The results of the November groundwater sampling are included in the laboratory data package in Attachment C2. Based on the initial review of the data by Integral and the LSRP, it was determined that while the reporting limit and method detection limits would meet the limits established by the method (except where dilutions are required), the November data would not meet the performance objectives of the PSAC Study due to factors still being determined. Examples of MFS and BFS QAPP performance criteria not met are included below.

- The % recovery in the MS/MSD for both the MFS and BFS target analyses were outside of the ranges established, as such acceptable recovery was not achieved.
- Due to concentration, target analyte MFS_N2 in sample M/H-2D (and replicate samples) was outside of the instrument calibration range even with 100X dilution

(re-extraction was completed outside of hold for method evaluation purposes). Additionally the reporting limit was also elevated in this sample due to matrix interferences.

- Laboratory blank contamination was identified.

After discussions with ELLE regarding the results, ELLE designed and completed a second spike test on the November samples to assess % recovery. The second spike test did not demonstrate that the MS/MSD % recoveries would be in acceptable ranges at the reported concentrations of certain MFS and BFS oligomers. In addition, an evaluation of potential matrix interferences was completed including correlation between field turbidity and results as well as evaluating the concentrations of other analytes including volatile organic compounds and PFAS. No conclusive interference could be determined in either test.

As ELLE no longer had sufficient sample volume from the groundwater samples submitted for the November event to use for further assessment, and to allow ELLE to evaluate samples from a greater numbers of wells, additional groundwater samples were collected from the Facility in February and March 2022 at ten locations (Figure 3). Modification from the November study proposed by ELLE included a location specific MS/MSD collected at each monitoring well for spike amounts of 40 ng/L and 80 ng/L. This addition was completed to assess if the spiking concentration used in the November sample analysis was insufficient for recovery.

Samples were collected from MW-16S and MW-40S, which were previously sampled in November, and from monitoring wells MW-1, MW-1D, MW-4, MW-12S, MW-17S, MW-40I, M/H-4 and M/H-4D (Figure 3). The validation report and corresponding laboratory data package data are included as Attachments B2 and C3, respectively. While conformance issues were identified by both the laboratory and the data validation for performance data, objectives of the PSAC Study were met regarding method reporting limits and detection limits. A summary of the second phase of the PSAC Study for groundwater is presented below:

- The analysis was conducted within specifications of the method.
- The proposed method reporting limits for MFS and BFS in groundwater were within the limits presented in the QAPP.
- Due to MS/MSD % recovery differences outside of range, data was rejected (as indicated with an "UR" in the validation summary) in four samples for the following analytes and locations:

- BFS_A2B3: location M/H-4
 - MFS_N5: locations M/H-4D, MW-17S, MW-1D, and MW-40I
 - MFS_N4: location MW-40I
- Due to MS/MSD % recovery differences outside of range, several samples were qualified with a “J” indicating the concentration is estimated, with bias (low bias in sample where the MS/MSD recover was below the % recovery of 70% and high bias where the MS/MSD recovery was above 130%). This largely affected samples at higher concentrations of MFS (sample MW-1D) and the BFS analysis.
 - Duplicate sample correlation between samples MW-17S and DUP-1_022822 was generally acceptable, with the BFS_A2B3, BFS_A3B2, BFS_AB3, BFS_B4, and MFS_M4 analytes qualified with a “J” (no bias) due to the control limits reporting above 30% (as presented in the QAPP for aqueous samples).

Eurofins summarized observations and the work it performed to attempt to resolve remaining issues in a letter with the subject “Efforts to Investigate MFS Recoveries in Water,” attached as Attachment D.

NEXT STEPS

Based on the stated objectives of the PSAC Study and the results of the November and February/March groundwater sampling, results to date suggest that the method appears to be working as expected for most of the oligomers, but method issues remain regarding recovery of certain oligomers. In response, additional groundwater sample collection is proposed to continue to evaluate method ELLE SOP MFS/BFS IDA for MFS and BFS.

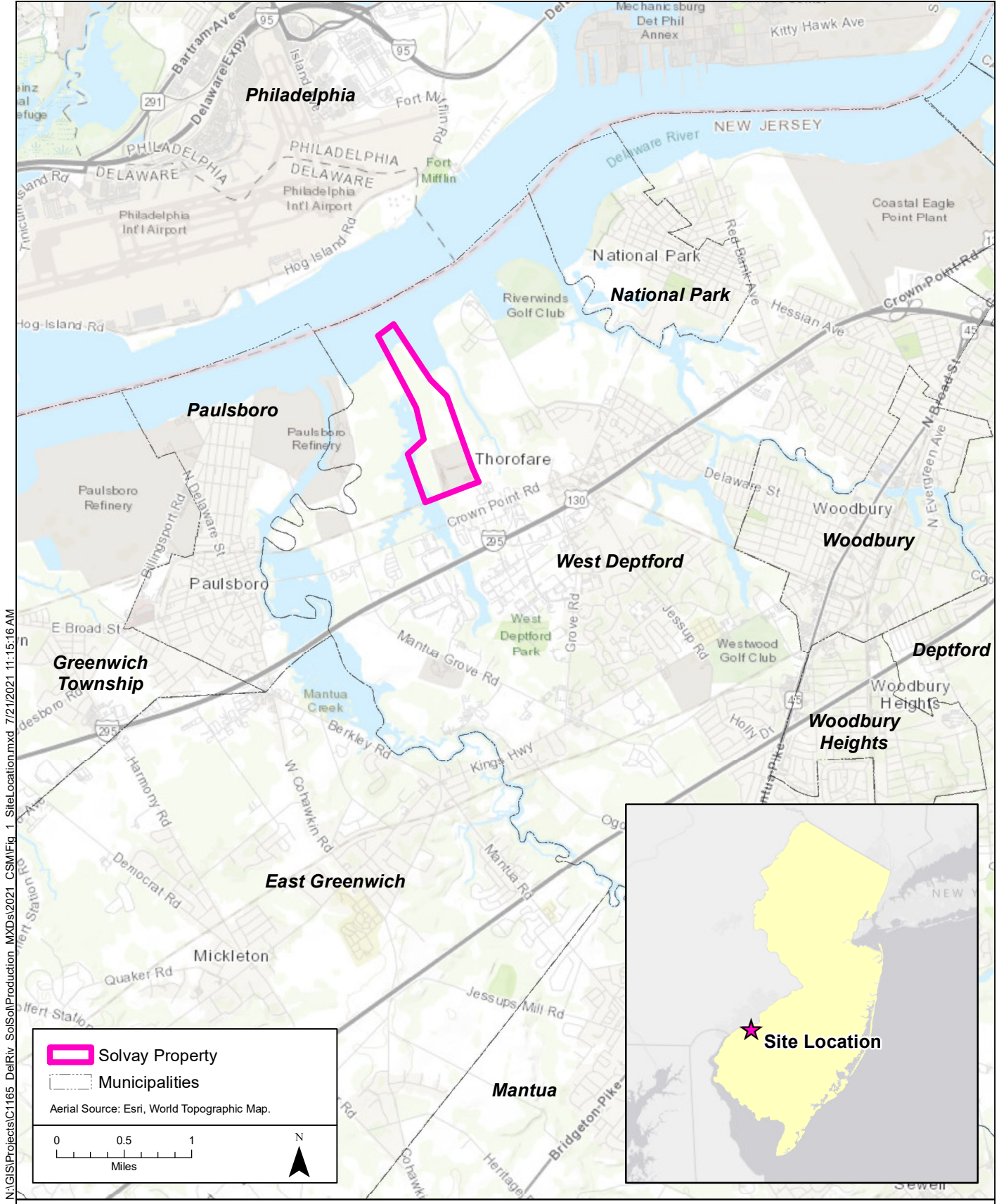
The primary objective of the additional sampling is to develop confidence in reported results across various concentration ranges, including lower contaminant concentrations from wells located offsite. An increased range of concentrations observed in offsite versus onsite groundwater will allow for a better assessment of the accuracy of the analytical method. This additional sampling will include locations that are anticipated to contain MFS analytes (individual or in the aggregate) at or near the Interim Specific Groundwater Quality Criteria (ISGWQC) of 0.002 µg/L. This is in contrast to samples collected to date which have largely been associated with locations that 1) MFS has been detected at 3-5 orders of magnitude above the ISGWQC, 2) PFAS and VOC concentrations would be at their highest, 3) the analysis required dilution, and 4) the MS/MSD % recovery that were out of established limits, which may be a result of the concentration of the analyte and not

matrix interference. It is also anticipated that one of the outcomes of the additional sampling is that the recovery limits presented in ELLE's method and included in the QAPP may need to be revised based on the method performance data generated by these additional samples.

The following sampling program is anticipated to be implemented beginning in May as the next phase of the PSAC Study:

Collect groundwater samples from the following wells: MW-106S/D, MW-109S/D, MW-101S/D, MW-110S/D, MW-111S/D, MW-112S/D, and MW-124S/D for analysis of MFS and BFS following the QA/QC outlined in the QAPP. The location of the wells are shown on Figure 4. These monitoring wells have been targeted for initial sampling as they fit the following criteria: 1) the wells are located outside of the footprint of the VOC plume and 2) historical PFNA concentrations identified at these monitoring wells range from less than .010 µg/L to greater than 2 µg/L.

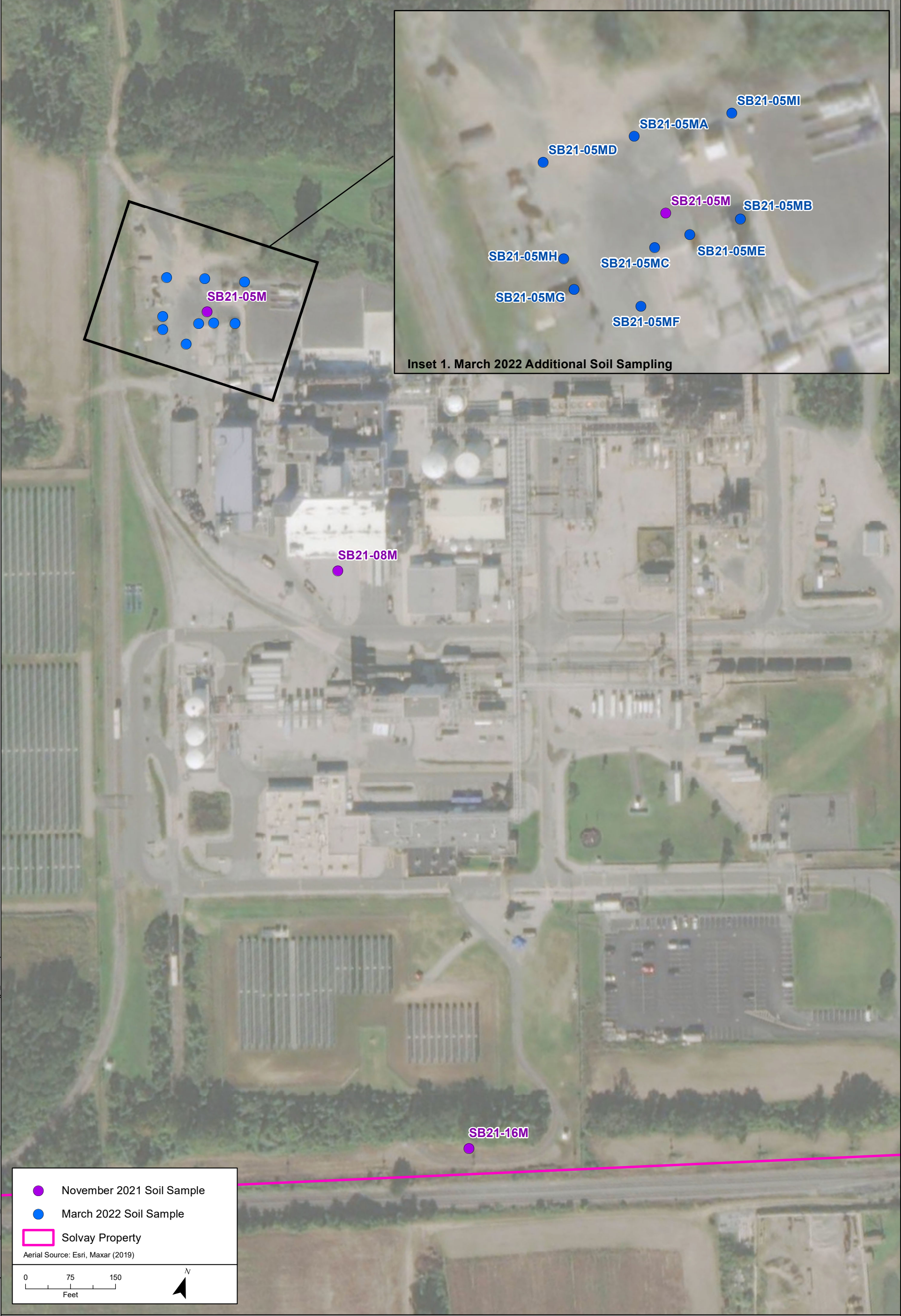
This sampling program is a subset of that proposed in December 2021 and gathered in January 2022. The January 2022 samples were not analyzed due to nonconformance issues identified with the method identified as part of the initial November 2021 sampling.



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Figure 1.
Site Location

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- November 2021 Soil Sample
- March 2022 Soil Sample
- ▭ Solvay Property

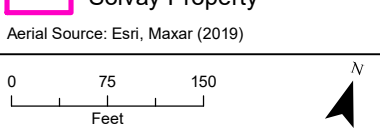


Figure 2.
Soil Sample Locations
Method Development

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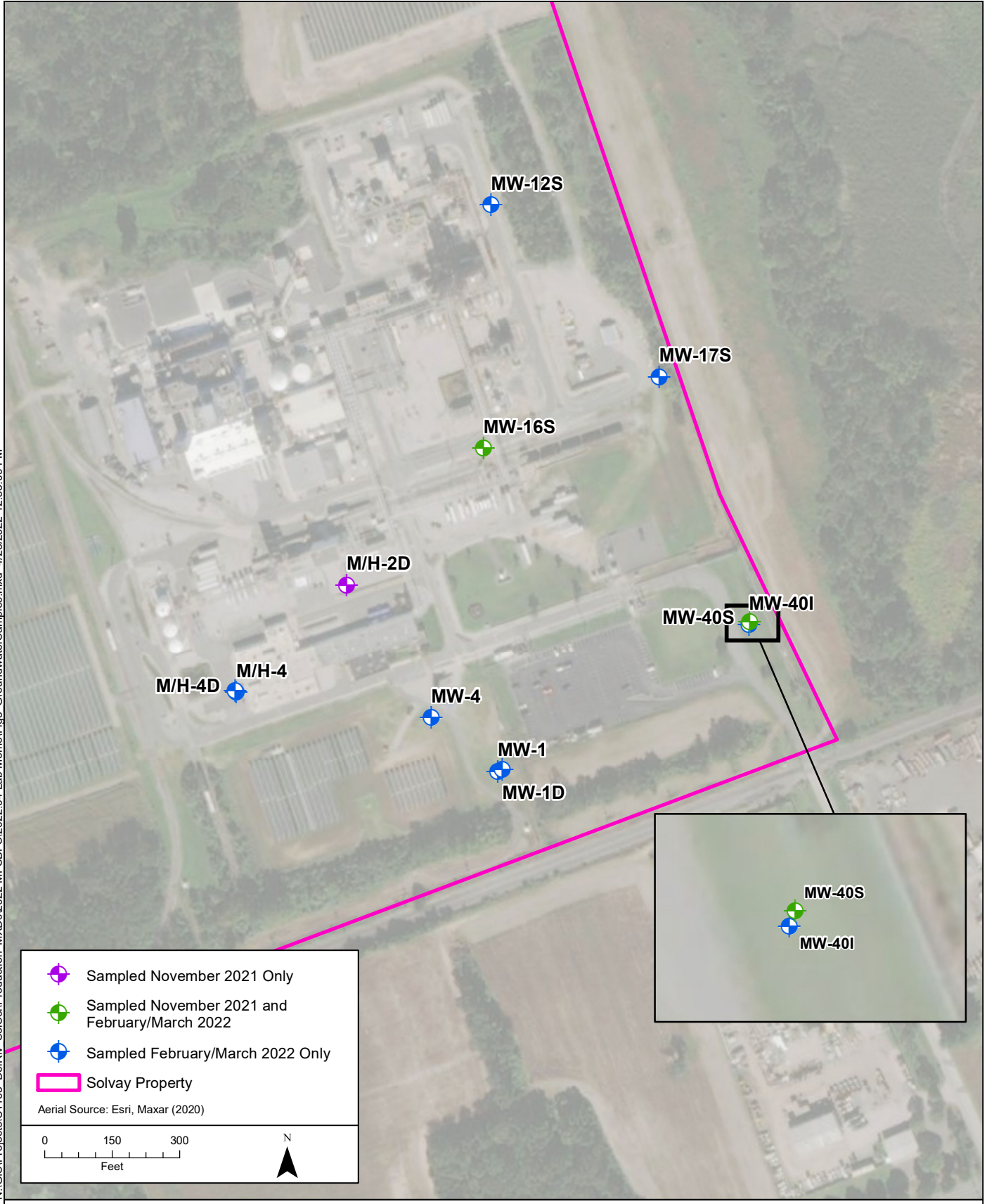


Figure 3.
Groundwater Sample Locations
Method Development

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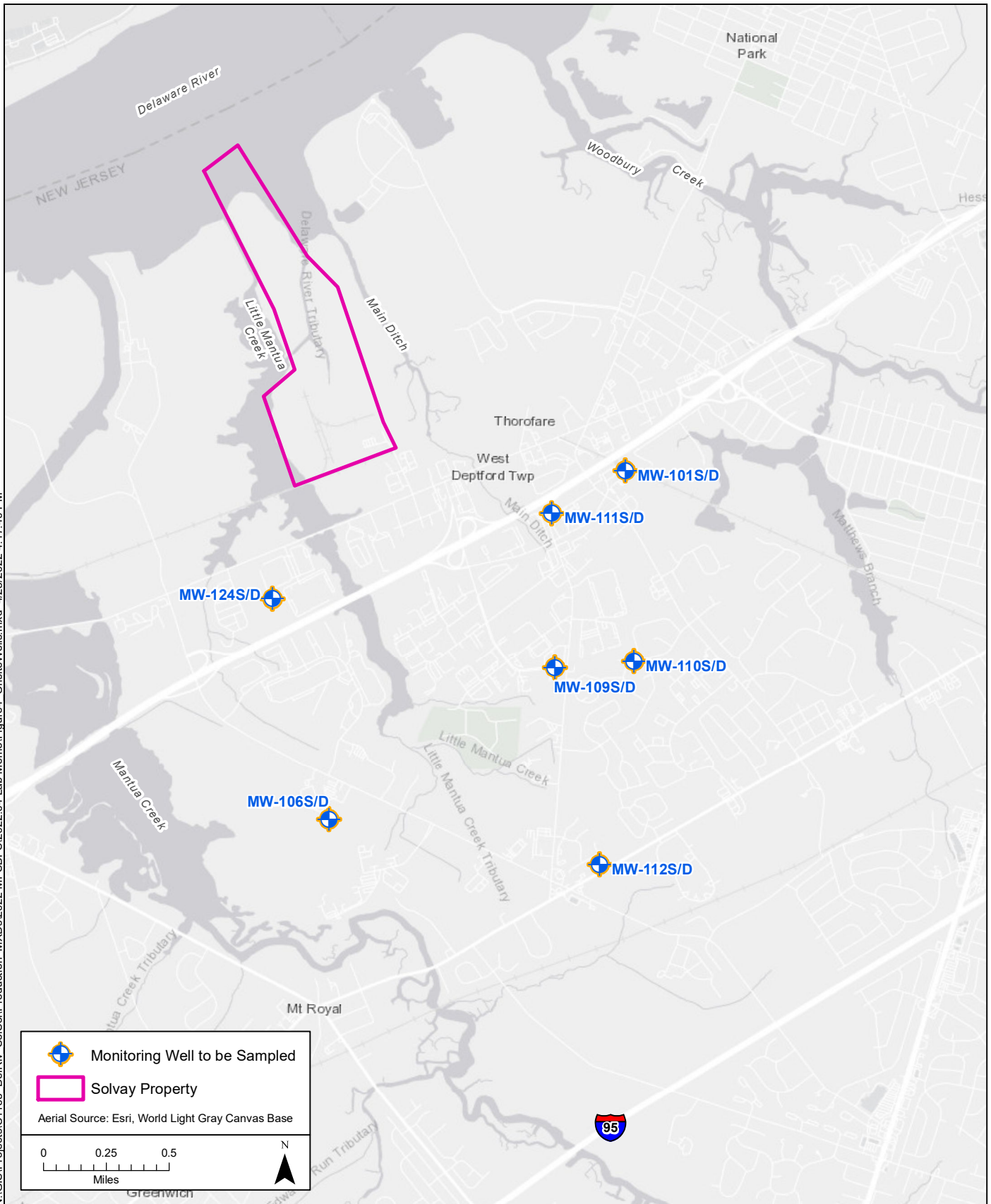


Figure 4.
Proposed Monitoring Well Sample Locations
Offsite Method Development Study

Attachment B

May 2022 Analytical Data and
Validation Report

ANALYTICAL REPORT

Job Number: 410-83412-1

Job Description: MFS/BFS

For:

Integral Consulting Inc
923 Haddonfield Road
Suite 300
Cherry Hill, NJ 08002
Attention: Erin Palko



Approved for release.
Elizabeth M Zanar
Project Manager
6/2/2022 4:51 PM

Elizabeth M Zanar, Project Manager
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Elizabeth.Zanar@et.eurofinsus.com
06/02/2022

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-83412-1

Job Description: MFS/BFS

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-83412-1

Receipt

The samples were received on 5/10/2022 6:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1°C and 4.0°C

LCMS

Method BFS_IDA: The recovery for target analyte(s) is outside of the QC acceptance limits in the laboratory control spike(s) associated with the following samples: MW-110S (410-83412-1), MW-110D (410-83412-2), MW-112S (410-83412-3), MW-112D (410-83412-4), EB_05092022 (410-83412-5), AB_05092022 (410-83412-6), MW-109S-PDB (410-83412-7), MW-111S-PDB (410-83412-8), MW-111D-PDB (410-83412-9), MW-101S (410-83412-10), MW-101D (410-83412-11) and EB_05102022 (410-83412-12). The QC limits are advisory; therefore, the data is reported and results should be considered estimated.

Method MFS_IDA: The recovery for target analyte MFS_N4 is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target MFS_N4 is not detected in the following samples: MW-110S (410-83412-1), MW-110D (410-83412-2), MW-112S (410-83412-3), MW-112D (410-83412-4), EB_05092022 (410-83412-5), AB_05092022 (410-83412-6), MW-109S-PDB (410-83412-7), MW-111S-PDB (410-83412-8), MW-111D-PDB (410-83412-9) and MW-101S (410-83412-10), the data is reported.

Method MFS_IDA: The recovery for target analyte MFS_N4 is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target MFS_N4 is not detected in the following samples: MW-101D (410-83412-11) and EB_05102022 (410-83412-12), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-110S

Lab Sample ID: 410-83412-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	24	^2 cn	1.3	0.36	ng/L	1	1	BFS	Total/NA
BFS_A2B3	9.4	cn	0.98	0.36	ng/L	1	1	BFS	Total/NA
BFS_A3B	1.4	cn	0.54	0.18	ng/L	1	1	BFS	Total/NA
BFS_A3B2	7.4	*+ cn	0.71	0.18	ng/L	1	1	BFS	Total/NA
BFS_A4B	2.2	cn	0.36	0.18	ng/L	1	1	BFS	Total/NA
BFS_AB2	3.9	cn	0.54	0.071	ng/L	1	1	BFS	Total/NA
BFS_AB3	95	^2 cn	1.3	0.36	ng/L	1	1	BFS	Total/NA
BFS_B3	17	^2 cn	0.63	0.27	ng/L	1	1	BFS	Total/NA
BFS_B4	43	cn	0.98	0.36	ng/L	1	1	BFS	Total/NA
MFS_N2	89	cn	0.77	0.15	ng/L	1	1	MFS	Total/NA

Client Sample ID: MW-110D

Lab Sample ID: 410-83412-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.42	J ^2 cn	1.2	0.36	ng/L	1	1	BFS	Total/NA
BFS_AB3	1.4	^2 cn	1.3	0.36	ng/L	1	1	BFS	Total/NA
BFS_B4	0.48	J cn	0.98	0.36	ng/L	1	1	BFS	Total/NA
MFS_N2	15	cn	0.85	0.17	ng/L	1	1	MFS	Total/NA

Client Sample ID: MW-112S

Lab Sample ID: 410-83412-3

No Detections.

Client Sample ID: MW-112D

Lab Sample ID: 410-83412-4

No Detections.

Client Sample ID: EB_05092022

Lab Sample ID: 410-83412-5

No Detections.

Client Sample ID: AB_05092022

Lab Sample ID: 410-83412-6

No Detections.

Client Sample ID: MW-109S-PDB

Lab Sample ID: 410-83412-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	86	^2 cn	1.2	0.36	ng/L	1	1	BFS	Total/NA
BFS_A3B	11	cn	0.53	0.18	ng/L	1	1	BFS	Total/NA
BFS_A3B2	40	*+ cn	0.71	0.18	ng/L	1	1	BFS	Total/NA
BFS_A4B	9.2	cn	0.36	0.18	ng/L	1	1	BFS	Total/NA
BFS_AB2	26	cn	0.53	0.071	ng/L	1	1	BFS	Total/NA
BFS_AB3	300	^2 cn	1.3	0.36	ng/L	1	1	BFS	Total/NA
BFS_B3	80	^2 cn	0.62	0.27	ng/L	1	1	BFS	Total/NA
BFS_B4	120	cn	0.98	0.36	ng/L	1	1	BFS	Total/NA
BFS_A2B3 - DL	76	cn	9.8	3.6	ng/L	10	1	BFS	Total/NA
MFS_M3	10	cn	0.87	0.17	ng/L	1	1	MFS	Total/NA
MFS_N3	20	cn	0.87	0.17	ng/L	1	1	MFS	Total/NA
MFS_N2 - DL	620	cn	8.7	1.7	ng/L	10	1	MFS	Total/NA

Client Sample ID: MW-111S-PDB

Lab Sample ID: 410-83412-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	170	^2 cn	1.2	0.35	ng/L	1	1	BFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-111S-PDB (Continued)

Lab Sample ID: 410-83412-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A3B	38	cn	0.53	0.18	ng/L	1		BFS	Total/NA
BFS_A3B2	32	*+ cn	0.70	0.18	ng/L	1		BFS	Total/NA
BFS_A4B	15	cn	0.35	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	41	cn	0.53	0.070	ng/L	1		BFS	Total/NA
BFS_AB3	290	^2 cn	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	120	^2 cn	0.61	0.26	ng/L	1		BFS	Total/NA
BFS_B4	95	cn	0.96	0.35	ng/L	1		BFS	Total/NA
BFS_A2B3 - DL	39	cn	9.6	3.5	ng/L	10		BFS	Total/NA
MFS_M3	30	cn	0.88	0.18	ng/L	1		MFS	Total/NA
MFS_N3	9.4	cn	0.88	0.18	ng/L	1		MFS	Total/NA
MFS_N2 - DL	1400	cn	8.8	1.8	ng/L	10		MFS	Total/NA

Client Sample ID: MW-111D-PDB

Lab Sample ID: 410-83412-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	33	^2 cn	1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A2B3	28	cn	0.96	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	2.9	cn	0.53	0.18	ng/L	1		BFS	Total/NA
BFS_A3B2	15	*+ cn	0.70	0.18	ng/L	1		BFS	Total/NA
BFS_A4B	3.3	cn	0.35	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	7.5	cn	0.53	0.070	ng/L	1		BFS	Total/NA
BFS_AB3	130	^2 cn	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	27	^2 cn	0.61	0.26	ng/L	1		BFS	Total/NA
BFS_B4	70	cn	0.96	0.35	ng/L	1		BFS	Total/NA
MFS_M3	3.4	cn	0.91	0.18	ng/L	1		MFS	Total/NA
MFS_N3	5.9	cn	0.91	0.18	ng/L	1		MFS	Total/NA
MFS_N2 - DL	180	cn	9.1	1.8	ng/L	10		MFS	Total/NA

Client Sample ID: MW-101S

Lab Sample ID: 410-83412-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	1.5	^2 cn	1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	0.72	cn	0.53	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	2.2	cn	0.53	0.070	ng/L	1		BFS	Total/NA
BFS_AB3	1.1	J ^2 cn	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	2.3	^2 cn	0.61	0.26	ng/L	1		BFS	Total/NA
MFS_N2	20	cn	0.86	0.17	ng/L	1		MFS	Total/NA
MFS_M3	1.4	cn	0.86	0.17	ng/L	1		MFS	Total/NA
MFS_N3	6.9	cn	0.86	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-101D

Lab Sample ID: 410-83412-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	1.2	^2 cn	1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	0.64	cn	0.53	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	5.0	cn	0.53	0.070	ng/L	1		BFS	Total/NA
BFS_AB3	1.3	^2 cn	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	1.6	^2 cn	0.61	0.26	ng/L	1		BFS	Total/NA
MFS_N2	44	cn	0.90	0.18	ng/L	1		MFS	Total/NA
MFS_M3	6.5	cn	0.90	0.18	ng/L	1		MFS	Total/NA
MFS_N3	16	cn	0.90	0.18	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: EB_05102022

Lab Sample ID: 410-83412-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-110S

Lab Sample ID: 410-83412-1

Date Collected: 05/09/22 11:13

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	24	^2 cn	1.3	0.36	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_A2B3	9.4	cn	0.98	0.36	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_A3B	1.4	cn	0.54	0.18	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_A3B2	7.4	*+ cn	0.71	0.18	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_A4B	2.2	cn	0.36	0.18	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_AB2	3.9	cn	0.54	0.071	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_AB3	95	^2 cn	1.3	0.36	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_B3	17	^2 cn	0.63	0.27	ng/L		05/17/22 09:01	06/01/22 15:11	1
BFS_B4	43	cn	0.98	0.36	ng/L		05/17/22 09:01	06/01/22 15:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	86	cn	50 - 150				05/17/22 09:01	06/01/22 15:11	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	89	cn	0.77	0.15	ng/L		05/17/22 09:10	05/24/22 10:35	1
MFS_M3	ND	cn	0.77	0.15	ng/L		05/17/22 09:10	05/24/22 10:35	1
MFS_N3	ND	cn	0.77	0.15	ng/L		05/17/22 09:10	05/24/22 10:35	1
MFS_M4	ND	cn	0.77	0.39	ng/L		05/17/22 09:10	05/24/22 10:35	1
MFS_N4	ND	cn	1.5	0.77	ng/L		05/17/22 09:10	05/24/22 10:35	1
MFS_N5	ND	cn	2.3	1.5	ng/L		05/17/22 09:10	05/24/22 10:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	67	cn	50 - 150				05/17/22 09:10	05/24/22 10:35	1

Client Sample ID: MW-110D

Lab Sample ID: 410-83412-2

Date Collected: 05/09/22 12:10

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.42	J ^2 cn	1.2	0.36	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_A2B3	ND	cn	0.98	0.36	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_A3B	ND	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_A3B2	ND	*+ cn	0.71	0.18	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_A4B	ND	cn	0.36	0.18	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_AB2	ND	cn	0.53	0.071	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_AB3	1.4	^2 cn	1.3	0.36	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_B3	ND	cn	0.62	0.27	ng/L		05/17/22 09:01	06/01/22 15:24	1
BFS_B4	0.48	J cn	0.98	0.36	ng/L		05/17/22 09:01	06/01/22 15:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87	cn	50 - 150				05/17/22 09:01	06/01/22 15:24	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	15	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 10:48	1
MFS_M3	ND	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 10:48	1
MFS_N3	ND	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 10:48	1
MFS_M4	ND	cn	0.85	0.43	ng/L		05/17/22 09:10	05/24/22 10:48	1
MFS_N4	ND	cn	1.7	0.85	ng/L		05/17/22 09:10	05/24/22 10:48	1
MFS_N5	ND	cn	2.6	1.7	ng/L		05/17/22 09:10	05/24/22 10:48	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-110D

Lab Sample ID: 410-83412-2

Date Collected: 05/09/22 12:10

Matrix: Water

Date Received: 05/10/22 18:29

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	73	cn	50 - 150	05/17/22 09:10	05/24/22 10:48	1

Client Sample ID: MW-112S

Lab Sample ID: 410-83412-3

Date Collected: 05/09/22 14:38

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_A2B3	ND	cn	0.95	0.35	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_A3B	ND	cn	0.52	0.17	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_A3B2	ND	*+ cn	0.69	0.17	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_A4B	ND	cn	0.35	0.17	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_AB2	ND	cn	0.52	0.069	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_AB3	ND	cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_B3	ND	cn	0.61	0.26	ng/L		05/17/22 09:01	06/01/22 15:36	1
BFS_B4	ND	cn	0.95	0.35	ng/L		05/17/22 09:01	06/01/22 15:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80	cn	50 - 150	05/17/22 09:01	06/01/22 15:36	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND	cn	0.87	0.17	ng/L		05/17/22 09:10	05/24/22 11:01	1
MFS_M3	ND	cn	0.87	0.17	ng/L		05/17/22 09:10	05/24/22 11:01	1
MFS_N3	ND	cn	0.87	0.17	ng/L		05/17/22 09:10	05/24/22 11:01	1
MFS_M4	ND	cn	0.87	0.43	ng/L		05/17/22 09:10	05/24/22 11:01	1
MFS_N4	ND	cn	1.7	0.87	ng/L		05/17/22 09:10	05/24/22 11:01	1
MFS_N5	ND	cn	2.6	1.7	ng/L		05/17/22 09:10	05/24/22 11:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99	cn	50 - 150	05/17/22 09:10	05/24/22 11:01	1

Client Sample ID: MW-112D

Lab Sample ID: 410-83412-4

Date Collected: 05/09/22 14:45

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.3	0.37	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_A2B3	ND	cn	1.0	0.37	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_A3B	ND	cn	0.55	0.18	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_A3B2	ND	*+ cn	0.74	0.18	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_A4B	ND	cn	0.37	0.18	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_AB2	ND	cn	0.55	0.074	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_AB3	ND	cn	1.4	0.37	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_B3	ND	cn	0.64	0.28	ng/L		05/17/22 09:01	06/01/22 15:49	1
BFS_B4	ND	cn	1.0	0.37	ng/L		05/17/22 09:01	06/01/22 15:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	78	cn	50 - 150	05/17/22 09:01	06/01/22 15:49	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-112D

Lab Sample ID: 410-83412-4

Date Collected: 05/09/22 14:45

Matrix: Water

Date Received: 05/10/22 18:29

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND	cn	0.83	0.17	ng/L		05/17/22 09:10	05/24/22 11:13	1
MFS_M3	ND	cn	0.83	0.17	ng/L		05/17/22 09:10	05/24/22 11:13	1
MFS_N3	ND	cn	0.83	0.17	ng/L		05/17/22 09:10	05/24/22 11:13	1
MFS_M4	ND	cn	0.83	0.42	ng/L		05/17/22 09:10	05/24/22 11:13	1
MFS_N4	ND	cn	1.7	0.83	ng/L		05/17/22 09:10	05/24/22 11:13	1
MFS_N5	ND	cn	2.5	1.7	ng/L		05/17/22 09:10	05/24/22 11:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	67	cn	50 - 150				05/17/22 09:10	05/24/22 11:13	1

Client Sample ID: EB_05092022

Lab Sample ID: 410-83412-5

Date Collected: 05/09/22 11:50

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.4	0.40	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_A2B3	ND	cn	1.1	0.40	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_A3B	ND	cn	0.59	0.20	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_A3B2	ND	*+ cn	0.79	0.20	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_A4B	ND	cn	0.40	0.20	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_AB2	ND	cn	0.59	0.079	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_AB3	ND	cn	1.5	0.40	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_B3	ND	cn	0.69	0.30	ng/L		05/17/22 09:01	06/01/22 16:02	1
BFS_B4	ND	cn	1.1	0.40	ng/L		05/17/22 09:01	06/01/22 16:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80	cn	50 - 150				05/17/22 09:01	06/01/22 16:02	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND	cn	0.97	0.19	ng/L		05/17/22 09:10	05/24/22 11:26	1
MFS_M3	ND	cn	0.97	0.19	ng/L		05/17/22 09:10	05/24/22 11:26	1
MFS_N3	ND	cn	0.97	0.19	ng/L		05/17/22 09:10	05/24/22 11:26	1
MFS_M4	ND	cn	0.97	0.48	ng/L		05/17/22 09:10	05/24/22 11:26	1
MFS_N4	ND	cn	1.9	0.97	ng/L		05/17/22 09:10	05/24/22 11:26	1
MFS_N5	ND	cn	2.9	1.9	ng/L		05/17/22 09:10	05/24/22 11:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	72	cn	50 - 150				05/17/22 09:10	05/24/22 11:26	1

Client Sample ID: AB_05092022

Lab Sample ID: 410-83412-6

Date Collected: 05/09/22 11:45

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.3	0.38	ng/L		05/17/22 09:01	06/01/22 16:14	1
BFS_A2B3	ND	cn	1.0	0.38	ng/L		05/17/22 09:01	06/01/22 16:14	1
BFS_A3B	ND	cn	0.56	0.19	ng/L		05/17/22 09:01	06/01/22 16:14	1
BFS_A3B2	ND	*+ cn	0.75	0.19	ng/L		05/17/22 09:01	06/01/22 16:14	1
BFS_A4B	ND	cn	0.38	0.19	ng/L		05/17/22 09:01	06/01/22 16:14	1
BFS_AB2	ND	cn	0.56	0.075	ng/L		05/17/22 09:01	06/01/22 16:14	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: AB_05092022

Lab Sample ID: 410-83412-6

Date Collected: 05/09/22 11:45

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_AB3	ND	cn	1.4	0.38	ng/L		05/17/22 09:01	06/01/22 16:14	1
BFS_B3	ND	cn	0.66	0.28	ng/L		05/17/22 09:01	06/01/22 16:14	1
BFS_B4	ND	cn	1.0	0.38	ng/L		05/17/22 09:01	06/01/22 16:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	77	cn	50 - 150				05/17/22 09:01	06/01/22 16:14	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND	cn	0.94	0.19	ng/L		05/17/22 09:10	05/24/22 11:38	1
MFS_M3	ND	cn	0.94	0.19	ng/L		05/17/22 09:10	05/24/22 11:38	1
MFS_N3	ND	cn	0.94	0.19	ng/L		05/17/22 09:10	05/24/22 11:38	1
MFS_M4	ND	cn	0.94	0.47	ng/L		05/17/22 09:10	05/24/22 11:38	1
MFS_N4	ND	cn	1.9	0.94	ng/L		05/17/22 09:10	05/24/22 11:38	1
MFS_N5	ND	cn	2.8	1.9	ng/L		05/17/22 09:10	05/24/22 11:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	66	cn	50 - 150				05/17/22 09:10	05/24/22 11:38	1

Client Sample ID: MW-109S-PDB

Lab Sample ID: 410-83412-7

Date Collected: 05/09/22 10:00

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	86	^2 cn	1.2	0.36	ng/L		05/17/22 09:01	06/01/22 16:27	1
BFS_A3B	11	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 16:27	1
BFS_A3B2	40	*+ cn	0.71	0.18	ng/L		05/17/22 09:01	06/01/22 16:27	1
BFS_A4B	9.2	cn	0.36	0.18	ng/L		05/17/22 09:01	06/01/22 16:27	1
BFS_AB2	26	cn	0.53	0.071	ng/L		05/17/22 09:01	06/01/22 16:27	1
BFS_AB3	300	^2 cn	1.3	0.36	ng/L		05/17/22 09:01	06/01/22 16:27	1
BFS_B3	80	^2 cn	0.62	0.27	ng/L		05/17/22 09:01	06/01/22 16:27	1
BFS_B4	120	cn	0.98	0.36	ng/L		05/17/22 09:01	06/01/22 16:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	72	cn	50 - 150				05/17/22 09:01	06/01/22 16:27	1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B3	76	cn	9.8	3.6	ng/L		05/17/22 09:01	06/01/22 16:39	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	124	cn	50 - 150				05/17/22 09:01	06/01/22 16:39	10

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	10	cn	0.87	0.17	ng/L		05/17/22 09:10	05/24/22 11:51	1
MFS_N3	20	cn	0.87	0.17	ng/L		05/17/22 09:10	05/24/22 11:51	1
MFS_M4	ND	cn	0.87	0.43	ng/L		05/17/22 09:10	05/24/22 11:51	1
MFS_N4	ND	cn	1.7	0.87	ng/L		05/17/22 09:10	05/24/22 11:51	1
MFS_N5	ND	cn	2.6	1.7	ng/L		05/17/22 09:10	05/24/22 11:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	63	cn	50 - 150				05/17/22 09:10	05/24/22 11:51	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-109S-PDB

Lab Sample ID: 410-83412-7

Date Collected: 05/09/22 10:00

Matrix: Water

Date Received: 05/10/22 18:29

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	620	cn	8.7	1.7	ng/L		05/17/22 09:10	05/31/22 17:58	10
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	78	cn	50 - 150				05/17/22 09:10	05/31/22 17:58	10

Client Sample ID: MW-111S-PDB

Lab Sample ID: 410-83412-8

Date Collected: 05/09/22 10:20

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	170	^2 cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 16:52	1
BFS_A3B	38	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 16:52	1
BFS_A3B2	32	*+ cn	0.70	0.18	ng/L		05/17/22 09:01	06/01/22 16:52	1
BFS_A4B	15	cn	0.35	0.18	ng/L		05/17/22 09:01	06/01/22 16:52	1
BFS_AB2	41	cn	0.53	0.070	ng/L		05/17/22 09:01	06/01/22 16:52	1
BFS_AB3	290	^2 cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 16:52	1
BFS_B3	120	^2 cn	0.61	0.26	ng/L		05/17/22 09:01	06/01/22 16:52	1
BFS_B4	95	cn	0.96	0.35	ng/L		05/17/22 09:01	06/01/22 16:52	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	62	cn	50 - 150				05/17/22 09:01	06/01/22 16:52	1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B3	39	cn	9.6	3.5	ng/L		05/17/22 09:01	06/01/22 17:04	10
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	86	cn	50 - 150				05/17/22 09:01	06/01/22 17:04	10

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	30	cn	0.88	0.18	ng/L		05/17/22 09:10	05/24/22 12:04	1
MFS_N3	9.4	cn	0.88	0.18	ng/L		05/17/22 09:10	05/24/22 12:04	1
MFS_M4	ND	cn	0.88	0.44	ng/L		05/17/22 09:10	05/24/22 12:04	1
MFS_N4	ND	cn	1.8	0.88	ng/L		05/17/22 09:10	05/24/22 12:04	1
MFS_N5	ND	cn	2.6	1.8	ng/L		05/17/22 09:10	05/24/22 12:04	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	69	cn	50 - 150				05/17/22 09:10	05/24/22 12:04	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1400	cn	8.8	1.8	ng/L		05/17/22 09:10	05/31/22 18:11	10
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	68	cn	50 - 150				05/17/22 09:10	05/31/22 18:11	10

Client Sample ID: MW-111D-PDB

Lab Sample ID: 410-83412-9

Date Collected: 05/09/22 10:30

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	33	^2 cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 17:30	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-111D-PDB

Lab Sample ID: 410-83412-9

Date Collected: 05/09/22 10:30

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B3	28	cn	0.96	0.35	ng/L		05/17/22 09:01	06/01/22 17:30	1
BFS_A3B	2.9	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 17:30	1
BFS_A3B2	15	*+ cn	0.70	0.18	ng/L		05/17/22 09:01	06/01/22 17:30	1
BFS_A4B	3.3	cn	0.35	0.18	ng/L		05/17/22 09:01	06/01/22 17:30	1
BFS_AB2	7.5	cn	0.53	0.070	ng/L		05/17/22 09:01	06/01/22 17:30	1
BFS_AB3	130	^2 cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 17:30	1
BFS_B3	27	^2 cn	0.61	0.26	ng/L		05/17/22 09:01	06/01/22 17:30	1
BFS_B4	70	cn	0.96	0.35	ng/L		05/17/22 09:01	06/01/22 17:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	73	cn	50 - 150				05/17/22 09:01	06/01/22 17:30	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	3.4	cn	0.91	0.18	ng/L		05/17/22 09:10	05/24/22 12:16	1
MFS_N3	5.9	cn	0.91	0.18	ng/L		05/17/22 09:10	05/24/22 12:16	1
MFS_M4	ND	cn	0.91	0.45	ng/L		05/17/22 09:10	05/24/22 12:16	1
MFS_N4	ND	cn	1.8	0.91	ng/L		05/17/22 09:10	05/24/22 12:16	1
MFS_N5	ND	cn	2.7	1.8	ng/L		05/17/22 09:10	05/24/22 12:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	72	cn	50 - 150				05/17/22 09:10	05/24/22 12:16	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	180	cn	9.1	1.8	ng/L		05/17/22 09:10	05/31/22 18:24	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	69	cn	50 - 150				05/17/22 09:10	05/31/22 18:24	10

Client Sample ID: MW-101S

Lab Sample ID: 410-83412-10

Date Collected: 05/10/22 10:40

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	1.5	^2 cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_A2B3	ND	cn	0.97	0.35	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_A3B	0.72	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_A3B2	ND	*+ cn	0.70	0.18	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_A4B	ND	cn	0.35	0.18	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_AB2	2.2	cn	0.53	0.070	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_AB3	1.1	J ^2 cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_B3	2.3	^2 cn	0.61	0.26	ng/L		05/17/22 09:01	06/01/22 17:42	1
BFS_B4	ND	cn	0.97	0.35	ng/L		05/17/22 09:01	06/01/22 17:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	65	cn	50 - 150				05/17/22 09:01	06/01/22 17:42	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	20	cn	0.86	0.17	ng/L		05/17/22 09:10	05/24/22 12:29	1
MFS_M3	1.4	cn	0.86	0.17	ng/L		05/17/22 09:10	05/24/22 12:29	1
MFS_N3	6.9	cn	0.86	0.17	ng/L		05/17/22 09:10	05/24/22 12:29	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-101S

Lab Sample ID: 410-83412-10

Date Collected: 05/10/22 10:40

Matrix: Water

Date Received: 05/10/22 18:29

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M4	ND	cn	0.86	0.43	ng/L		05/17/22 09:10	05/24/22 12:29	1
MFS_N4	ND	cn	1.7	0.86	ng/L		05/17/22 09:10	05/24/22 12:29	1
MFS_N5	ND	cn	2.6	1.7	ng/L		05/17/22 09:10	05/24/22 12:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	70	cn	50 - 150				05/17/22 09:10	05/24/22 12:29	1

Client Sample ID: MW-101D

Lab Sample ID: 410-83412-11

Date Collected: 05/10/22 13:45

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	1.2	^2 cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_A2B3	ND	cn	0.97	0.35	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_A3B	0.64	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_A3B2	ND	*+ cn	0.70	0.18	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_A4B	ND	cn	0.35	0.18	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_AB2	5.0	cn	0.53	0.070	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_AB3	1.3	^2 cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_B3	1.6	^2 cn	0.61	0.26	ng/L		05/17/22 09:01	06/01/22 17:55	1
BFS_B4	ND	cn	0.97	0.35	ng/L		05/17/22 09:01	06/01/22 17:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	58	cn	50 - 150				05/17/22 09:01	06/01/22 17:55	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	44	cn	0.90	0.18	ng/L		05/17/22 09:10	05/24/22 12:55	1
MFS_M3	6.5	cn	0.90	0.18	ng/L		05/17/22 09:10	05/24/22 12:55	1
MFS_N3	16	cn	0.90	0.18	ng/L		05/17/22 09:10	05/24/22 12:55	1
MFS_M4	ND	cn	0.90	0.45	ng/L		05/17/22 09:10	05/24/22 12:55	1
MFS_N4	ND	cn	1.8	0.90	ng/L		05/17/22 09:10	05/24/22 12:55	1
MFS_N5	ND	cn	2.7	1.8	ng/L		05/17/22 09:10	05/24/22 12:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	60	cn	50 - 150				05/17/22 09:10	05/24/22 12:55	1

Client Sample ID: EB_05102022

Lab Sample ID: 410-83412-12

Date Collected: 05/10/22 11:18

Matrix: Water

Date Received: 05/10/22 18:29

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.3	0.36	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_A2B3	ND	cn	0.99	0.36	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_A3B	ND	cn	0.54	0.18	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_A3B2	ND	*+ cn	0.72	0.18	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_A4B	ND	cn	0.36	0.18	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_AB2	ND	cn	0.54	0.072	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_AB3	ND	cn	1.4	0.36	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_B3	ND	cn	0.63	0.27	ng/L		05/17/22 09:01	06/01/22 18:08	1
BFS_B4	ND	cn	0.99	0.36	ng/L		05/17/22 09:01	06/01/22 18:08	1

Client Sample Results

Client: Integral Consulting Inc
 Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: EB_05102022

Lab Sample ID: 410-83412-12

Date Collected: 05/10/22 11:18

Matrix: Water

Date Received: 05/10/22 18:29

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	85	cn	50 - 150	05/17/22 09:01	06/01/22 18:08	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND	cn	0.89	0.18	ng/L		05/17/22 09:10	05/24/22 13:08	1
MFS_M3	ND	cn	0.89	0.18	ng/L		05/17/22 09:10	05/24/22 13:08	1
MFS_N3	ND	cn	0.89	0.18	ng/L		05/17/22 09:10	05/24/22 13:08	1
MFS_M4	ND	cn	0.89	0.45	ng/L		05/17/22 09:10	05/24/22 13:08	1
MFS_N4	ND	cn	1.8	0.89	ng/L		05/17/22 09:10	05/24/22 13:08	1
MFS_N5	ND	cn	2.7	1.8	ng/L		05/17/22 09:10	05/24/22 13:08	1

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	68	cn	50 - 150	05/17/22 09:10	05/24/22 13:08	1

Default Detection Limits

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
BFS_A2B2	1.4	0.40	ng/L
BFS_A2B3	1.1	0.40	ng/L
BFS_A3B	0.60	0.20	ng/L
BFS_A3B2	0.80	0.20	ng/L
BFS_A4B	0.40	0.20	ng/L
BFS_AB2	0.60	0.080	ng/L
BFS_AB3	1.5	0.40	ng/L
BFS_B3	0.70	0.30	ng/L
BFS_B4	1.1	0.40	ng/L

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
MFS_M3	1.0	0.20	ng/L
MFS_M4	1.0	0.50	ng/L
MFS_N2	1.0	0.20	ng/L
MFS_N3	1.0	0.20	ng/L
MFS_N4	2.0	1.0	ng/L
MFS_N5	3.0	2.0	ng/L

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-83412-1	MW-110S	86 cn
410-83412-2	MW-110D	87 cn
410-83412-3	MW-112S	80 cn
410-83412-4	MW-112D	78 cn
410-83412-5	EB_05092022	80 cn
410-83412-6	AB_05092022	77 cn
410-83412-7	MW-109S-PDB	72 cn
410-83412-7 - DL	MW-109S-PDB	124 cn
410-83412-8	MW-111S-PDB	62 cn
410-83412-8 - DL	MW-111S-PDB	86 cn
410-83412-9	MW-111D-PDB	73 cn
410-83412-10	MW-101S	65 cn
410-83412-11	MW-101D	58 cn
410-83412-12	EB_05102022	85 cn
LCS 410-256031/2-A	Lab Control Sample	81
MB 410-256031/1-A	Method Blank	94

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-83412-1	MW-110S	67 cn
410-83412-2	MW-110D	73 cn
410-83412-3	MW-112S	99 cn
410-83412-4	MW-112D	67 cn
410-83412-5	EB_05092022	72 cn
410-83412-6	AB_05092022	66 cn
410-83412-7	MW-109S-PDB	63 cn
410-83412-7 - DL	MW-109S-PDB	78 cn
410-83412-8	MW-111S-PDB	69 cn
410-83412-8 - DL	MW-111S-PDB	68 cn
410-83412-9	MW-111D-PDB	72 cn
410-83412-9 - DL	MW-111D-PDB	69 cn
410-83412-10	MW-101S	70 cn
410-83412-11	MW-101D	60 cn
410-83412-12	EB_05102022	68 cn
LCS 410-256033/2-A	Lab Control Sample	74
MB 410-256033/1-A	Method Blank	85

Surrogate Legend

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-256031/1-A
Matrix: Water
Analysis Batch: 260981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256031

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A2B3	ND		1.1	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A3B	ND		0.60	0.20	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A3B2	ND		0.80	0.20	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A4B	ND		0.40	0.20	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_AB2	ND		0.60	0.080	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_AB3	ND		1.5	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_B3	ND		0.70	0.30	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_B4	ND		1.1	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
		MB MB					Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	94		50 - 150				05/17/22 09:01	06/01/22 14:46	1

Lab Sample ID: LCS 410-256031/2-A
Matrix: Water
Analysis Batch: 260981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
BFS_A2B2	250	289		ng/L		115	70 - 130	
BFS_A2B3	4.72	5.59		ng/L		119	70 - 130	
BFS_A3B	35.8	39.7		ng/L		111	70 - 130	
BFS_A3B2	47.2	72.5	*+	ng/L		154	70 - 130	
BFS_A4B	19.8	23.9		ng/L		121	70 - 130	
BFS_AB2	32.1	35.9		ng/L		112	70 - 130	
BFS_AB3	268	329		ng/L		123	70 - 130	
BFS_B3	114	138		ng/L		121	70 - 130	
BFS_B4	62.2	75.4		ng/L		121	70 - 130	
		LCS LCS					Limits	
Isotope Dilution	%Recovery	Qualifier	Limits					
13C3 HFPO-DA	81		50 - 150					

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-256033/1-A
Matrix: Water
Analysis Batch: 258462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256033

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_M3	ND		1.0	0.20	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_N3	ND		1.0	0.20	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_M4	ND		1.0	0.50	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_N4	ND		2.0	1.0	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_N5	ND		3.0	2.0	ng/L		05/17/22 09:10	05/24/22 10:10	1
		MB MB					Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	85		50 - 150				05/17/22 09:10	05/24/22 10:10	1

QC Sample Results

Client: Integral Consulting Inc
 Project/Site: MFS/BFS

Job ID: 410-83412-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: LCS 410-256033/2-A
Matrix: Water
Analysis Batch: 260445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_N2	40.4	45.5		ng/L		113	70 - 130
MFS_M3	40.4	44.8		ng/L		111	70 - 130
MFS_N3	40.1	44.2		ng/L		110	70 - 130
MFS_M4	40.8	43.4		ng/L		106	70 - 130
MFS_N4	40.2	43.2		ng/L		108	70 - 130
MFS_N5	40.0	44.6		ng/L		111	70 - 130
		LCS	LCS				
Isotope Dilution	%Recovery	Qualifier	Limits				
<i>13C3 HFPO-DA</i>	<i>74</i>		<i>50 - 150</i>				

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

LCMS

Prep Batch: 256031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83412-1	MW-110S	Total/NA	Water	3535	
410-83412-2	MW-110D	Total/NA	Water	3535	
410-83412-3	MW-112S	Total/NA	Water	3535	
410-83412-4	MW-112D	Total/NA	Water	3535	
410-83412-5	EB_05092022	Total/NA	Water	3535	
410-83412-6	AB_05092022	Total/NA	Water	3535	
410-83412-7	MW-109S-PDB	Total/NA	Water	3535	
410-83412-7 - DL	MW-109S-PDB	Total/NA	Water	3535	
410-83412-8	MW-111S-PDB	Total/NA	Water	3535	
410-83412-8 - DL	MW-111S-PDB	Total/NA	Water	3535	
410-83412-9	MW-111D-PDB	Total/NA	Water	3535	
410-83412-10	MW-101S	Total/NA	Water	3535	
410-83412-11	MW-101D	Total/NA	Water	3535	
410-83412-12	EB_05102022	Total/NA	Water	3535	
MB 410-256031/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-256031/2-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 256033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83412-1	MW-110S	Total/NA	Water	3535	
410-83412-2	MW-110D	Total/NA	Water	3535	
410-83412-3	MW-112S	Total/NA	Water	3535	
410-83412-4	MW-112D	Total/NA	Water	3535	
410-83412-5	EB_05092022	Total/NA	Water	3535	
410-83412-6	AB_05092022	Total/NA	Water	3535	
410-83412-7	MW-109S-PDB	Total/NA	Water	3535	
410-83412-7 - DL	MW-109S-PDB	Total/NA	Water	3535	
410-83412-8	MW-111S-PDB	Total/NA	Water	3535	
410-83412-8 - DL	MW-111S-PDB	Total/NA	Water	3535	
410-83412-9 - DL	MW-111D-PDB	Total/NA	Water	3535	
410-83412-9	MW-111D-PDB	Total/NA	Water	3535	
410-83412-10	MW-101S	Total/NA	Water	3535	
410-83412-11	MW-101D	Total/NA	Water	3535	
410-83412-12	EB_05102022	Total/NA	Water	3535	
MB 410-256033/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-256033/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 258462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83412-1	MW-110S	Total/NA	Water	MFS	256033
410-83412-2	MW-110D	Total/NA	Water	MFS	256033
410-83412-3	MW-112S	Total/NA	Water	MFS	256033
410-83412-4	MW-112D	Total/NA	Water	MFS	256033
410-83412-5	EB_05092022	Total/NA	Water	MFS	256033
410-83412-6	AB_05092022	Total/NA	Water	MFS	256033
410-83412-7	MW-109S-PDB	Total/NA	Water	MFS	256033
410-83412-8	MW-111S-PDB	Total/NA	Water	MFS	256033
410-83412-9	MW-111D-PDB	Total/NA	Water	MFS	256033
410-83412-10	MW-101S	Total/NA	Water	MFS	256033
410-83412-11	MW-101D	Total/NA	Water	MFS	256033
410-83412-12	EB_05102022	Total/NA	Water	MFS	256033

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

LCMS (Continued)

Analysis Batch: 258462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-256033/1-A	Method Blank	Total/NA	Water	MFS	256033

Analysis Batch: 260445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83412-7 - DL	MW-109S-PDB	Total/NA	Water	MFS	256033
410-83412-8 - DL	MW-111S-PDB	Total/NA	Water	MFS	256033
410-83412-9 - DL	MW-111D-PDB	Total/NA	Water	MFS	256033
LCS 410-256033/2-A	Lab Control Sample	Total/NA	Water	MFS	256033

Analysis Batch: 260981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83412-1	MW-110S	Total/NA	Water	BFS	256031
410-83412-2	MW-110D	Total/NA	Water	BFS	256031
410-83412-3	MW-112S	Total/NA	Water	BFS	256031
410-83412-4	MW-112D	Total/NA	Water	BFS	256031
410-83412-5	EB_05092022	Total/NA	Water	BFS	256031
410-83412-6	AB_05092022	Total/NA	Water	BFS	256031
410-83412-7	MW-109S-PDB	Total/NA	Water	BFS	256031
410-83412-7 - DL	MW-109S-PDB	Total/NA	Water	BFS	256031
410-83412-8	MW-111S-PDB	Total/NA	Water	BFS	256031
410-83412-8 - DL	MW-111S-PDB	Total/NA	Water	BFS	256031
410-83412-9	MW-111D-PDB	Total/NA	Water	BFS	256031
410-83412-10	MW-101S	Total/NA	Water	BFS	256031
410-83412-11	MW-101D	Total/NA	Water	BFS	256031
410-83412-12	EB_05102022	Total/NA	Water	BFS	256031
MB 410-256031/1-A	Method Blank	Total/NA	Water	BFS	256031
LCS 410-256031/2-A	Lab Control Sample	Total/NA	Water	BFS	256031

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-110S

Lab Sample ID: 410-83412-1

Date Collected: 05/09/22 11:13

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 15:11	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 10:35	JVK6	ELLE

Client Sample ID: MW-110D

Lab Sample ID: 410-83412-2

Date Collected: 05/09/22 12:10

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 15:24	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 10:48	JVK6	ELLE

Client Sample ID: MW-112S

Lab Sample ID: 410-83412-3

Date Collected: 05/09/22 14:38

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 15:36	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 11:01	JVK6	ELLE

Client Sample ID: MW-112D

Lab Sample ID: 410-83412-4

Date Collected: 05/09/22 14:45

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 15:49	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 11:13	JVK6	ELLE

Client Sample ID: EB_05092022

Lab Sample ID: 410-83412-5

Date Collected: 05/09/22 11:50

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 16:02	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 11:26	JVK6	ELLE

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: AB_05092022

Lab Sample ID: 410-83412-6

Date Collected: 05/09/22 11:45

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 16:14	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 11:38	JVK6	ELLE

Client Sample ID: MW-109S-PDB

Lab Sample ID: 410-83412-7

Date Collected: 05/09/22 10:00

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 16:27	JVK6	ELLE
Total/NA	Prep	3535	DL		256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS	DL	10	260981	06/01/22 16:39	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 11:51	JVK6	ELLE
Total/NA	Prep	3535	DL		256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS	DL	10	260445	05/31/22 17:58	JVK6	ELLE

Client Sample ID: MW-111S-PDB

Lab Sample ID: 410-83412-8

Date Collected: 05/09/22 10:20

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 16:52	JVK6	ELLE
Total/NA	Prep	3535	DL		256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS	DL	10	260981	06/01/22 17:04	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 12:04	JVK6	ELLE
Total/NA	Prep	3535	DL		256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS	DL	10	260445	05/31/22 18:11	JVK6	ELLE

Client Sample ID: MW-111D-PDB

Lab Sample ID: 410-83412-9

Date Collected: 05/09/22 10:30

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 17:30	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 12:16	JVK6	ELLE
Total/NA	Prep	3535	DL		256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS	DL	10	260445	05/31/22 18:24	JVK6	ELLE

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Client Sample ID: MW-101S

Lab Sample ID: 410-83412-10

Date Collected: 05/10/22 10:40

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 17:42	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 12:29	JVK6	ELLE

Client Sample ID: MW-101D

Lab Sample ID: 410-83412-11

Date Collected: 05/10/22 13:45

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 17:55	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 12:55	JVK6	ELLE

Client Sample ID: EB_05102022

Lab Sample ID: 410-83412-12

Date Collected: 05/10/22 11:18

Matrix: Water

Date Received: 05/10/22 18:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 18:08	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 13:08	JVK6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
BFS	3535	Water	BFS_A2B2
BFS	3535	Water	BFS_A2B3
BFS	3535	Water	BFS_A3B
BFS	3535	Water	BFS_A3B2
BFS	3535	Water	BFS_A4B
BFS	3535	Water	BFS_AB2
BFS	3535	Water	BFS_AB3
BFS	3535	Water	BFS_B3
BFS	3535	Water	BFS_B4
MFS	3535	Water	MFS_M3
MFS	3535	Water	MFS_M4
MFS	3535	Water	MFS_N2
MFS	3535	Water	MFS_N3
MFS	3535	Water	MFS_N4
MFS	3535	Water	MFS_N5

Method Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Method	Method Description	Protocol	Laboratory
BFS	Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
MFS	Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

Client = Client derived Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83412-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-83412-1	MW-110S	Water	05/09/22 11:13	05/10/22 18:29
410-83412-2	MW-110D	Water	05/09/22 12:10	05/10/22 18:29
410-83412-3	MW-112S	Water	05/09/22 14:38	05/10/22 18:29
410-83412-4	MW-112D	Water	05/09/22 14:45	05/10/22 18:29
410-83412-5	EB_05092022	Water	05/09/22 11:50	05/10/22 18:29
410-83412-6	AB_05092022	Water	05/09/22 11:45	05/10/22 18:29
410-83412-7	MW-109S-PDB	Water	05/09/22 10:00	05/10/22 18:29
410-83412-8	MW-111S-PDB	Water	05/09/22 10:20	05/10/22 18:29
410-83412-9	MW-111D-PDB	Water	05/09/22 10:30	05/10/22 18:29
410-83412-10	MW-101S	Water	05/10/22 10:40	05/10/22 18:29
410-83412-11	MW-101D	Water	05/10/22 13:45	05/10/22 18:29
410-83412-12	EB_05102022	Water	05/10/22 11:18	05/10/22 18:29

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: IC 410-260772/1 Client Sample ID: _____

Date Analyzed: 06/01/22 11:47 Lab File ID: 22JUN01BFS-01.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.06	Baseline	kruelleh	06/01/22 13:58
BFS_A3B	4.14	Baseline	kruelleh	06/01/22 13:58
BFS_B3	4.30	Baseline	kruelleh	06/01/22 13:59
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 13:59
BFS_AB3	4.66	Baseline	kruelleh	06/01/22 13:59
BFS_A3B2	4.76	Baseline	kruelleh	06/01/22 13:59
BFS_B4	4.90	Baseline	kruelleh	06/01/22 13:59

Lab Sample ID: IC 410-260772/2 Client Sample ID: _____

Date Analyzed: 06/01/22 12:01 Lab File ID: 22JUN01BFS-02.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.06	Baseline	kruelleh	06/01/22 13:59
BFS_A3B	4.13	Baseline	kruelleh	06/01/22 13:59
BFS_B3	4.29	Baseline	kruelleh	06/01/22 14:00
BFS_A4B	4.48	Baseline	kruelleh	06/01/22 14:00
BFS_B4	4.88	Baseline	kruelleh	06/01/22 14:00

Lab Sample ID: IC 410-260772/3 Client Sample ID: _____

Date Analyzed: 06/01/22 12:13 Lab File ID: 22JUN01BFS-03.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.97	Baseline	kruelleh	06/01/22 14:00

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: IC 410-260772/4 Client Sample ID: _____

Date Analyzed: 06/01/22 12:26 Lab File ID: 22JUN01BFS-04.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB3	4.66	Baseline	kruelleh	06/01/22 14:01
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:01

Lab Sample ID: ICISAV 410-260772/5 Client Sample ID: _____

Date Analyzed: 06/01/22 12:39 Lab File ID: 22JUN01BFS-05.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.99	Baseline	kruelleh	06/01/22 13:58

Lab Sample ID: IC 410-260772/6 Client Sample ID: _____

Date Analyzed: 06/01/22 12:51 Lab File ID: 22JUN01BFS-06.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.30	Baseline	kruelleh	06/01/22 14:01
BFS_A2B2	4.40	Baseline	kruelleh	06/01/22 14:01
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:02
BFS_AB3	4.66	Baseline	kruelleh	06/01/22 14:02
BFS_A2B3	5.01	Baseline	kruelleh	06/01/22 14:02

Lab Sample ID: IC 410-260772/7 Client Sample ID: _____

Date Analyzed: 06/01/22 13:04 Lab File ID: 22JUN01BFS-07.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.06	Baseline	kruelleh	06/01/22 14:02
BFS_B3	4.30	Baseline	kruelleh	06/01/22 14:02
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:02
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:03

BFS

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: IC 410-260772/8 Client Sample ID: _____

Date Analyzed: 06/01/22 13:16 Lab File ID: 22JUN01BFS-08.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.30	Baseline	kruelleh	06/01/22 14:03
BFS_A2B2	4.40	Baseline	kruelleh	06/01/22 14:03
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:03
BFS_A3B2	4.76	Baseline	kruelleh	06/01/22 14:03
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:04

Lab Sample ID: IC 410-260772/9 Client Sample ID: _____

Date Analyzed: 06/01/22 13:29 Lab File ID: 22JUN01BFS-09.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.29	Baseline	kruelleh	06/01/22 14:04
BFS_A2B2	4.39	Baseline	kruelleh	06/01/22 14:04
BFS_A4B	4.48	Baseline	kruelleh	06/01/22 14:04
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:05

Lab Sample ID: IC 410-260772/10 Client Sample ID: _____

Date Analyzed: 06/01/22 13:42 Lab File ID: 22JUN01BFS-10.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.31	Baseline	kruelleh	06/01/22 14:05
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:05

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: ICB 410-260772/11 Client Sample ID: _____

Date Analyzed: 06/01/22 13:55 Lab File ID: 22JUN01BFS-11.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.30	Baseline	kruelleh	06/02/22 06:27
BFS_A2B2	4.40	Baseline	kruelleh	06/02/22 06:27
BFS_AB3	4.66	Baseline	kruelleh	06/02/22 06:27

Lab Sample ID: ICV 410-260772/12 Client Sample ID: _____

Date Analyzed: 06/01/22 14:08 Lab File ID: 22JUN01BFS-12.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.07	Baseline	kruelleh	06/02/22 06:27
BFS_A2B2	4.40	Baseline	kruelleh	06/02/22 06:27
BFS_A2B3	5.00	Baseline	kruelleh	06/02/22 06:27

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260981

Lab Sample ID: CCV 410-260981/1 Client Sample ID: _____

Date Analyzed: 06/01/22 14:33 Lab File ID: 22JUN01BFS-14.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B2	4.39	Baseline	kruelleh	06/02/22 06:39
BFS_A2B3	4.98	Baseline	kruelleh	06/02/22 06:39

Lab Sample ID: LCS 410-256031/2-A Client Sample ID: _____

Date Analyzed: 06/01/22 14:58 Lab File ID: 22JUN01BFS-16.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	5.01	Baseline	kruelleh	06/02/22 06:41

Lab Sample ID: 410-83412-8 DL Client Sample ID: MW-111S-PDB DL

Date Analyzed: 06/01/22 17:04 Lab File ID: 22JUN01BFS-26.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.99	Baseline	kruelleh	06/02/22 06:44

Lab Sample ID: CCV 410-260981/14 Client Sample ID: _____

Date Analyzed: 06/01/22 17:17 Lab File ID: 22JUN01BFS-27.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.29	Baseline	kruelleh	06/02/22 06:39
BFS_A2B2	4.39	Baseline	kruelleh	06/02/22 06:39
BFS_A2B3	4.99	Baseline	kruelleh	06/02/22 06:39

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260981

Lab Sample ID: 410-83412-11 Client Sample ID: MW-101D

Date Analyzed: 06/01/22 17:55 Lab File ID: 22JUN01BFS-30.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B4	4.89	Baseline	kruelleh	06/02/22 06:45

Lab Sample ID: CCV 410-260981/25 Client Sample ID: _____

Date Analyzed: 06/01/22 19:36 Lab File ID: 22JUN01BFS-38.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B2	4.39	Baseline	kruelleh	06/02/22 06:40
BFS_A2B3	4.99	Baseline	kruelleh	06/02/22 06:40

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260445

Lab Sample ID: 410-83412-7 DL Client Sample ID: MW-109S-PDB DL

Date Analyzed: 05/31/22 17:58 Lab File ID: 22MAY31MFS-14.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.47	Baseline	kruelleh	06/01/22 06:38

Lab Sample ID: 410-83412-8 DL Client Sample ID: MW-111S-PDB DL

Date Analyzed: 05/31/22 18:11 Lab File ID: 22MAY31MFS-15.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.48	Baseline	kruelleh	06/01/22 06:37

Lab Sample ID: 410-83412-9 DL Client Sample ID: MW-111D-PDB DL

Date Analyzed: 05/31/22 18:24 Lab File ID: 22MAY31MFS-16.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.48	Baseline	kruelleh	06/01/22 06:38

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL	
							BFS_A2B3	0.654875 ng/mL	
							BFS_A3B	4.97698 ng/mL	
							BFS_A3B2	6.54868 ng/mL	
							BFS_A4B	2.75045 ng/mL	
							BFS_AB2	4.4531 ng/mL	
							BFS_AB3	37.1964 ng/mL	
							BFS_B3	15.8478 ng/mL	
							BFS_B4	8.64425 ng/mL	
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
								BFS_A2B3	26195 ng/mL
								BFS_A3B	199079 ng/mL
								BFS_A3B2	261947 ng/mL
								BFS_A4B	110018 ng/mL
								BFS_AB2	178124 ng/mL
								BFS_AB3	1487860 ng/mL
								BFS_B3	633911 ng/mL
								BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
PFC_ICV_MFS_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01491	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_MFS_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.1 mL	MFS_N2	1.00919 ng/mL	
							MFS_M3	1.01081 ng/mL	
							MFS_N3	1.00152 ng/mL	
							MFS_M4	1.01969 ng/mL	
							MFS_N4	1.00444 ng/mL	
							MFS_N5	1.00093 ng/mL	
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS_N2	100.919 ng/mL	
							MFS_M3	101.081 ng/mL	
							MFS_N3	100.152 ng/mL	
							MFS_M4	101.969 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IN_BFS_00013	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_IN_BFS_00011	1 mL	BFS A2B2	1388.32 ng/mL
							BFS A2B3	26.195 ng/mL
							BFS A3B	199.079 ng/mL
							BFS A3B2	261.947 ng/mL
							BFS A4B	110.018 ng/mL
							BFS AB2	178.124 ng/mL
							BFS AB3	1487.86 ng/mL
							BFS B3	633.911 ng/mL
							BFS B4	345.77 ng/mL
.PFC_IN_BFS_00011	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
PFC_IN_MFS_00024	07/13/22	03/17/22	Methanol, Lot EC203-US	10 mL	PFC_IN_MFS_00019	0.5 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
.PFC_IN_MFS_00019	07/13/22	01/13/22	Methanol, Lot EC058-US	10 mL	PFC_IN_MFS_00018	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
..PFC_IN_MFS_00018	07/13/22	01/13/22	Methanol, Lot EC058-US	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
...PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
...PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
...PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
...PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
...PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
...PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
PFC_INT_00009	07/13/22	01/13/22	Methanol, Lot EC058-US	10 mL	PFC_ST_00005	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_00005	12/23/23		Wellington Laboratories, Lot M3HFPODA1220		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IS_MOD_00325	07/13/22	05/13/22	Methanol, Lot ED319-US	10 mL	PFC_ST_01559	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01559	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_IS_MOD_00331	06/21/22	05/23/22	Methanol, Lot ED319-US	10 mL	PFC_ST_01597	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_IS_MOD_00336	06/29/22	05/29/22	Methanol, Lot ED319-US	10 mL	PFC_ST_01597	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_SS_00010	06/06/22	04/08/22	Methanol, Lot EC203-US	10 mL	PFC_INT_00010	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00010	09/25/22	03/25/22	Methanol, Lot EC203-US	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_STD_BFS1_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.025 mL	BFS_A2B2	0.347079 ng/mL
							BFS_A2B3	0.00654875 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A3B	0.0497698 ng/mL
							BFS_A3B2	0.0654867 ng/mL
							BFS_A4B	0.0275045 ng/mL
							BFS_AB2	0.044531 ng/mL
							BFS_AB3	0.371964 ng/mL
							BFS_B3	0.158478 ng/mL
							BFS_B4	0.0864425 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS3_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.2 mL	BFS_A2B2	2.77663 ng/mL
							BFS_A2B3	0.05239 ng/mL
							BFS_A3B	0.398158 ng/mL
							BFS_A3B2	0.523894 ng/mL
							BFS_A4B	0.220036 ng/mL
							BFS_AB2	0.356248 ng/mL
							BFS_AB3	2.97571 ng/mL
							BFS_B3	1.26782 ng/mL
							BFS_B4	0.69154 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
					PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL	
							BFS_A2B3	2.6195 ng/mL	
							BFS_A3B	19.9079 ng/mL	
							BFS_A3B2	26.1947 ng/mL	
							BFS_A4B	11.0018 ng/mL	
							BFS_AB2	17.8124 ng/mL	
							BFS_AB3	148.786 ng/mL	
BFS_B3	63.3911 ng/mL								
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL	
							BFS_A3B	199079 ng/mL	
							BFS_A3B2	261947 ng/mL	
							BFS_A4B	110018 ng/mL	
							BFS_AB2	178124 ng/mL	
							BFS_AB3	1487860 ng/mL	
							BFS_B3	633911 ng/mL	
BFS_B4	345770 ng/mL								
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_STD_BFS4_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.5 mL	BFS_A2B2	6.94158 ng/mL	
							BFS_A2B3	0.130975 ng/mL	
							BFS_A3B	0.995395 ng/mL	
							BFS_A3B2	1.30974 ng/mL	
							BFS_A4B	0.55009 ng/mL	
							BFS_AB2	0.89062 ng/mL	
							BFS_AB3	7.43928 ng/mL	
							BFS_B3	3.16955 ng/mL	
							BFS_B4	1.72885 ng/mL	
							PFC_INT_00012	0.1 mL	13C3 HFPO-DA
PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL						
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS5_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	1 mL	BFS A2B2	13.8832 ng/mL
							BFS A2B3	0.26195 ng/mL
							BFS A3B	1.99079 ng/mL
							BFS A3B2	2.61947 ng/mL
							BFS A4B	1.10018 ng/mL
							BFS AB2	1.78124 ng/mL
							BFS AB3	14.8786 ng/mL
							BFS B3	6.33911 ng/mL
							BFS B4	3.4577 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS6_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS A2B2	34.7079 ng/mL
							BFS A2B3	0.654875 ng/mL
							BFS A3B	4.97698 ng/mL
							BFS A3B2	6.54868 ng/mL
							BFS A4B	2.75045 ng/mL
							BFS AB2	4.4531 ng/mL
							BFS AB3	37.1964 ng/mL
							BFS B3	15.8478 ng/mL
							BFS B4	8.64425 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS7_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.05 mL	BFS A2B2	69.4159 ng/mL
							BFS A2B3	1.30975 ng/mL
							BFS A3B	9.95395 ng/mL
							BFS A3B2	13.0974 ng/mL
							BFS A4B	5.5009 ng/mL
							BFS AB2	8.9062 ng/mL
							BFS AB3	74.3928 ng/mL
							BFS B3	31.6956 ng/mL
							BFS B4	17.2885 ng/mL
					PFC_INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23	Solvay, Lot BFS 1206SI			(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS8_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS9_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.2 mL	BFS A2B2	277.663 ng/mL
							BFS A2B3	5.239 ng/mL
							BFS A3B	39.8158 ng/mL
							BFS A3B2	52.3894 ng/mL
							BFS A4B	22.0036 ng/mL
							BFS AB2	35.6248 ng/mL
							BFS AB3	297.571 ng/mL
							BFS B3	126.782 ng/mL
							BFS B4	69.154 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS1_00008	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.025 mL	MFS_N2	0.252299 ng/mL
							MFS_M3	0.252702 ng/mL
							MFS_N3	0.25038 ng/mL
							MFS_M4	0.254923 ng/mL
							MFS_N4	0.251111 ng/mL
							MFS_N5	0.250232 ng/mL
					PFC INT 00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST MFS 00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC ST MFS 00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC ST MFS 00010	0.28 mL	MFS N3	50076 ng/mL
					PFC ST MFS 00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC ST MFS 00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC ST MFS 00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC ST MFS 00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC ST MFS 00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC ST MFS 00010	11/11/22		Solvay, Lot 148/72			(Purchased Reagent)	MFS N3	1788430 ng/mL
....PFC ST MFS 00011	11/11/22		Solvay, Lot 148/74			(Purchased Reagent)	MFS M4	1243530 ng/mL
....PFC ST MFS 00012	11/11/22		Solvay, Lot 148/46			(Purchased Reagent)	MFS N4	1521880 ng/mL
....PFC ST MFS 00013	11/11/22		Solvay, Lot 148/22			(Purchased Reagent)	MFS N5	1283240 ng/mL
.PFC INT 00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_MFS2_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.05 mL	MFS_N2	0.504597 ng/mL
							MFS_M3	0.505404 ng/mL
							MFS_N3	0.50076 ng/mL
							MFS_M4	0.509846 ng/mL
							MFS_N4	0.502221 ng/mL
							MFS_N5	0.500464 ng/mL
PFC_INT 00011	0.1 mL	13C3 HFPO-DA	5 ng/mL					
PFC_ST 01491	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
MFS N5	100.093 ng/mL							
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
MFS N5	2001.85 ng/mL							
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST MFS 00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC ST MFS 00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC ST MFS 00010	0.28 mL	MFS N3	50076 ng/mL
					PFC ST MFS 00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC ST MFS 00012	0.33 mL	MFS N4	50222.1 ng/mL
PFC ST MFS 00013	0.39 mL	MFS N5	50046.4 ng/mL					
....PFC ST MFS 00008	11/10/22		Solvay, Lot 148/64			(Purchased Reagent)	MFS N2	573406 ng/mL
....PFC ST MFS 00009	11/10/22		Solvay, Lot 148/61			(Purchased Reagent)	MFS M3	886674 ng/mL
....PFC ST MFS 00010	11/11/22		Solvay, Lot 148/72			(Purchased Reagent)	MFS N3	1788430 ng/mL
....PFC ST MFS 00011	11/11/22		Solvay, Lot 148/74			(Purchased Reagent)	MFS M4	1243530 ng/mL
....PFC ST MFS 00012	11/11/22		Solvay, Lot 148/46			(Purchased Reagent)	MFS N4	1521880 ng/mL
....PFC ST MFS 00013	11/11/22		Solvay, Lot 148/22			(Purchased Reagent)	MFS N5	1283240 ng/mL
.PFC INT 00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_MFS3_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.1 mL	MFS_N2	1.00919 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M3	1.01081 ng/mL
							MFS N3	1.00152 ng/mL
							MFS M4	1.01969 ng/mL
							MFS N4	1.00444 ng/mL
							MFS N5	1.00093 ng/mL
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS4_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.5 mL	MFS N2	5.04597 ng/mL
							MFS M3	5.05404 ng/mL
							MFS N3	5.0076 ng/mL
							MFS M4	5.09846 ng/mL
							MFS N4	5.02221 ng/mL
							MFS N5	5.00464 ng/mL
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS_N4	100.444 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N5	100.093 ng/mL		
							MFS N2	2018.39 ng/mL		
							MFS M3	2021.62 ng/mL		
							MFS N3	2003.04 ng/mL		
							MFS M4	2039.38 ng/mL		
							MFS N4	2008.89 ng/mL		
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL		
							PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
							PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
							PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
							PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
							PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)	MFS N2	573406 ng/mL			
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)	MFS M3	886674 ng/mL			
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)	MFS N3	1788430 ng/mL			
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)	MFS M4	1243530 ng/mL			
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)	MFS N4	1521880 ng/mL			
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)	MFS N5	1283240 ng/mL			
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL		
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL		
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL		
PFC_STD_MFS5_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	1 mL	MFS N2	10.0919 ng/mL		
							MFS M3	10.1081 ng/mL		
							MFS N3	10.0152 ng/mL		
							MFS M4	10.1969 ng/mL		
							MFS N4	10.0444 ng/mL		
							MFS N5	10.0093 ng/mL		
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	13C3 HFPO-DA	5 ng/mL		
							PFC_INT_00011	0.1 mL	13C2 PFOA	5 ng/mL
							PFC_ST_01491	0.025 mL		
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL		
							MFS M3	101.081 ng/mL		
							MFS N3	100.152 ng/mL		
							MFS M4	101.969 ng/mL		
							MFS N4	100.444 ng/mL		
							MFS N5	100.093 ng/mL		
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL		
							MFS M3	2021.62 ng/mL		
							MFS N3	2003.04 ng/mL		
							MFS M4	2039.38 ng/mL		
							MFS N4	2008.89 ng/mL		
							MFS N5	2001.85 ng/mL		
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL		
							PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
							PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
							PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
							PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N4	1521880 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	MFS N5	1283240 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	500 ng/mL
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_STD_MFS6_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	2.5 mL	13C2 PFOA	2000 ng/mL
							MFS N2	25.2299 ng/mL
							MFS M3	25.2702 ng/mL
							MFS N3	25.038 ng/mL
							MFS M4	25.4923 ng/mL
							MFS N4	25.1111 ng/mL
							MFS N5	25.0232 ng/mL
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS7_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	5 mL	MFS N2	50.4597 ng/mL
							MFS_M3	50.5404 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	50.076 ng/mL
							MFS M4	50.9846 ng/mL
							MFS N4	50.2221 ng/mL
							MFS N5	50.0464 ng/mL
					PFC INT 00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
.PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
.PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST MFS 00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC ST MFS 00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC ST MFS 00010	0.28 mL	MFS N3	50076 ng/mL
					PFC ST MFS 00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC ST MFS 00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC ST MFS 00013	0.39 mL	MFS N5	50046.4 ng/mL
.PFC ST MFS 00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
.PFC ST MFS 00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
.PFC ST MFS 00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
.PFC ST MFS 00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
.PFC ST MFS 00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
.PFC ST MFS 00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC INT 00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

Reagent

PFC_ST_00005

Received 5/16/21

CERTIFICATE OF ANALYSIS DOCUMENTATION

WELLINGTON LABORATORIES



PC-ST-00005



410-1371681

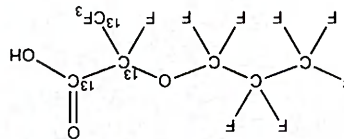
PRODUCT CODE: M3HFP0-DA

LOT NUMBER: M3HFP0DA1220

COMPOUND:

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)¹³C₃propanoic acid

STRUCTURE:



CAS #:

Not available

MOLECULAR FORMULA:

¹³C₃H₂F₁₁O₃

CONCENTRATION:

50.0 ± 2.5 µg/mL

CHEMICAL PURITY:

>98%

LAST TESTED: (m/v/d/yyyy)

12/23/2020

EXPIRY DATE: (m/v/d/yyyy)

12/23/2023

RECOMMENDED STORAGE:

Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

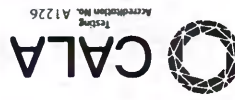
Certified By:

B.G. Chittim, General Manager

Date: 02/01/2021 (m/v/d/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com



This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA: A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB: AR-1523).

QUALITY MANAGEMENT:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

LIMITED WARRANTY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

EXPIRY DATE / PERIOD OF VALIDITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

TRACEABILITY:

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products. where x is expressed as a relative standard uncertainty of the individual parameter.

$$u(x) = \sqrt{\sum_{i=1}^n u(x_i)^2}$$

The combined relative standard uncertainty, $u_r(x)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n , on which it depends is:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

UNCERTAINTY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

HOMOGENEITY:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

SYNTHESIS / CHARACTERIZATION:

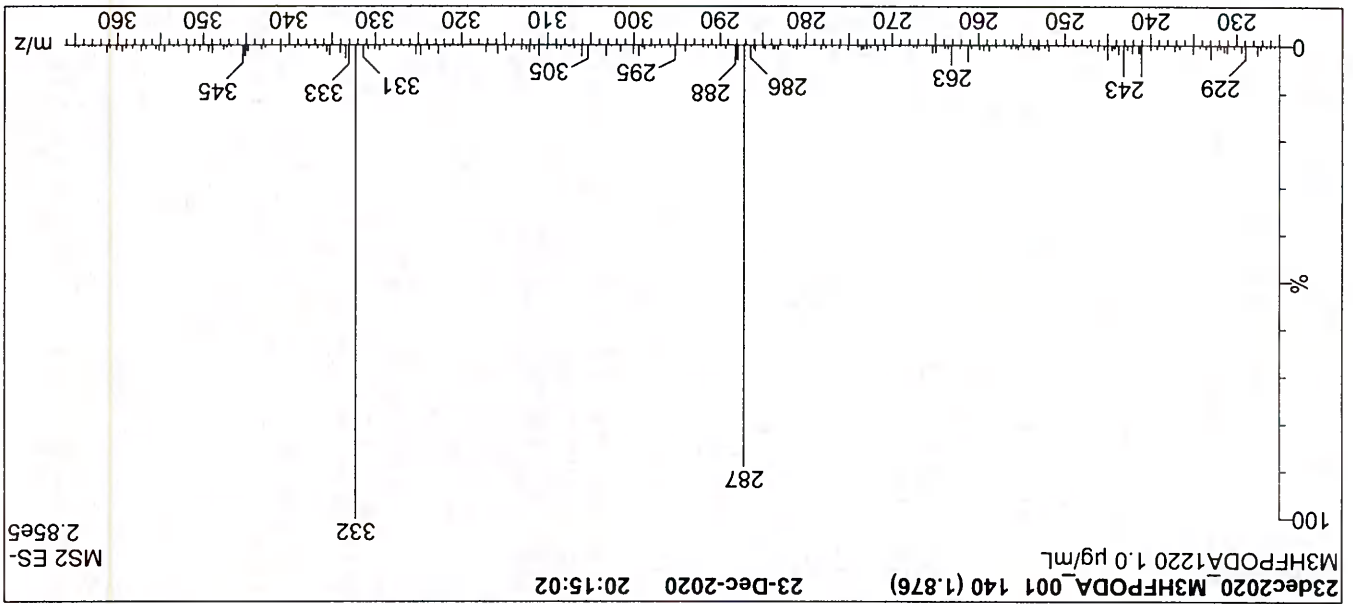
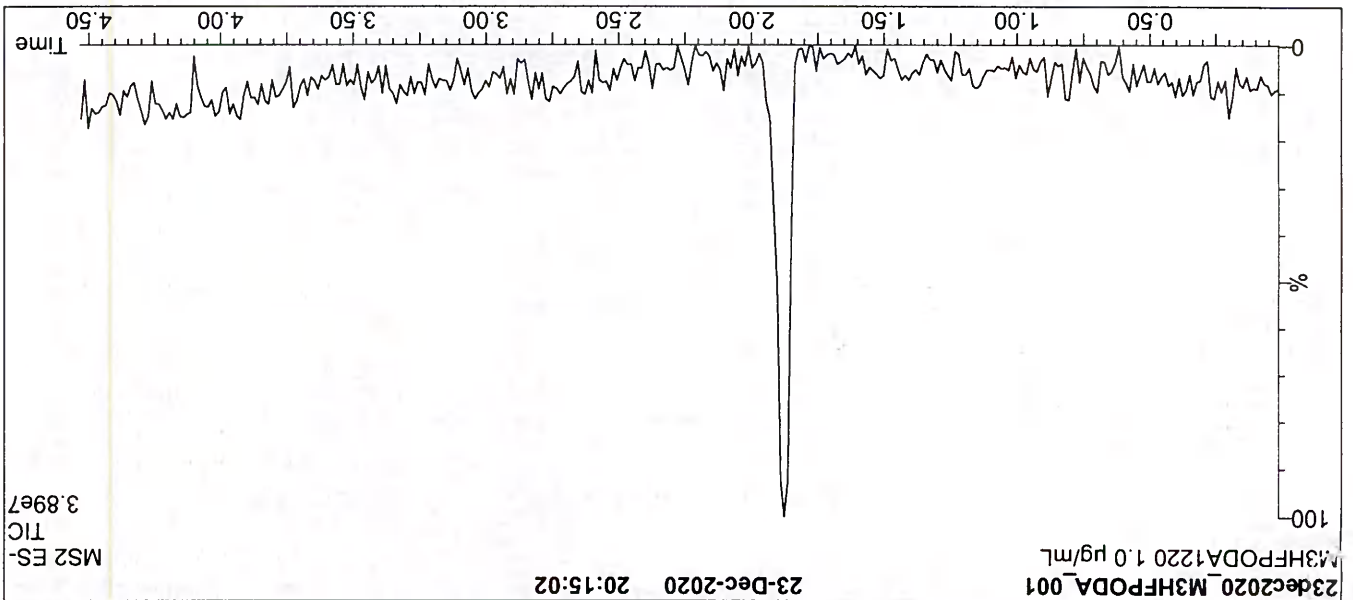
This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDS) are available upon request.

HANDLING:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

INTENDED USE:

Figure 1: M3HFP0-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

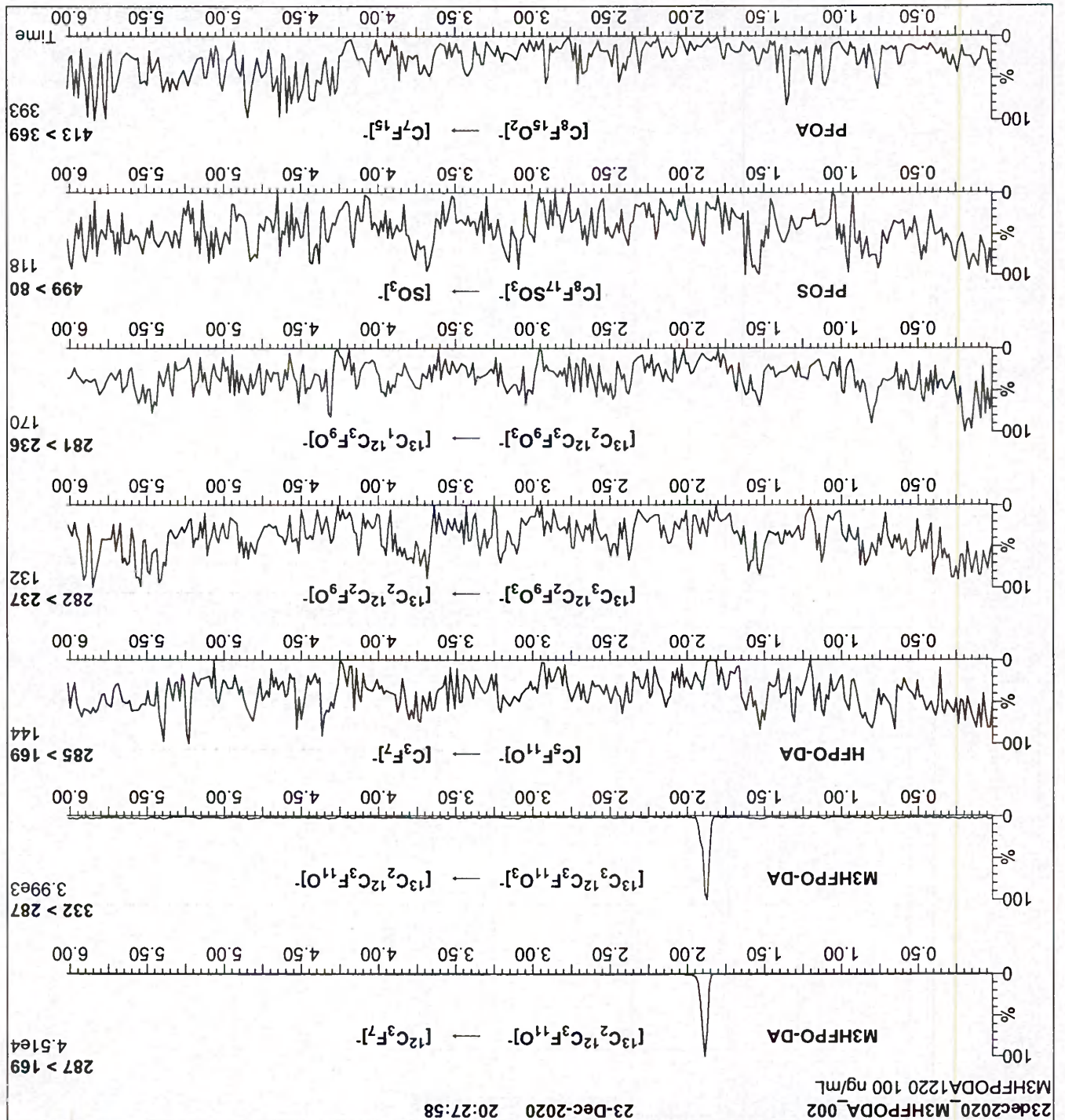
Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% H₂O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for
2 min before returning to initial conditions in 0.75 min.
Time: 12 min
Flow: 300 µL/min

MS Parameters:
Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 300
Desolvation Gas Flow (L/hr) = 1000

Figure 2: M3HFP0-DA; LC/MS/MS Data (Selected MRM Transitions)



23dec2020_M3HFP0A_002
M3HFP0DA1220 100 ng/mL

23-Dec-2020 20:27:58

287 > 169
4.51e4

332 > 287
3.99e3

285 > 169
144

282 > 237
132

281 > 236
170

499 > 80
118

413 > 369
393

Conditions for Figure 2:

Injection: On-column (M3HFP0-DA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_01410



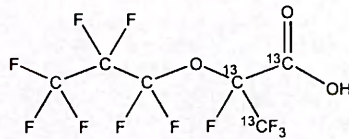
WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

AFC-ST-01410

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA1121
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)(¹³C₃)propanoic acid

STRUCTURE: **CAS #:** Not available



410-2416299

MOLECULAR FORMULA: ¹³C₃¹²C₃HF₁₁O₃ **MOLECULAR WEIGHT:** 333.03
CONCENTRATION: 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 11/11/2021
EXPIRY DATE: (mm/dd/yyyy) 11/11/2024
RECOMMENDED STORAGE: Refrigerate ampoule

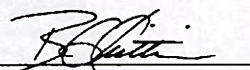
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 11/16/2021
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

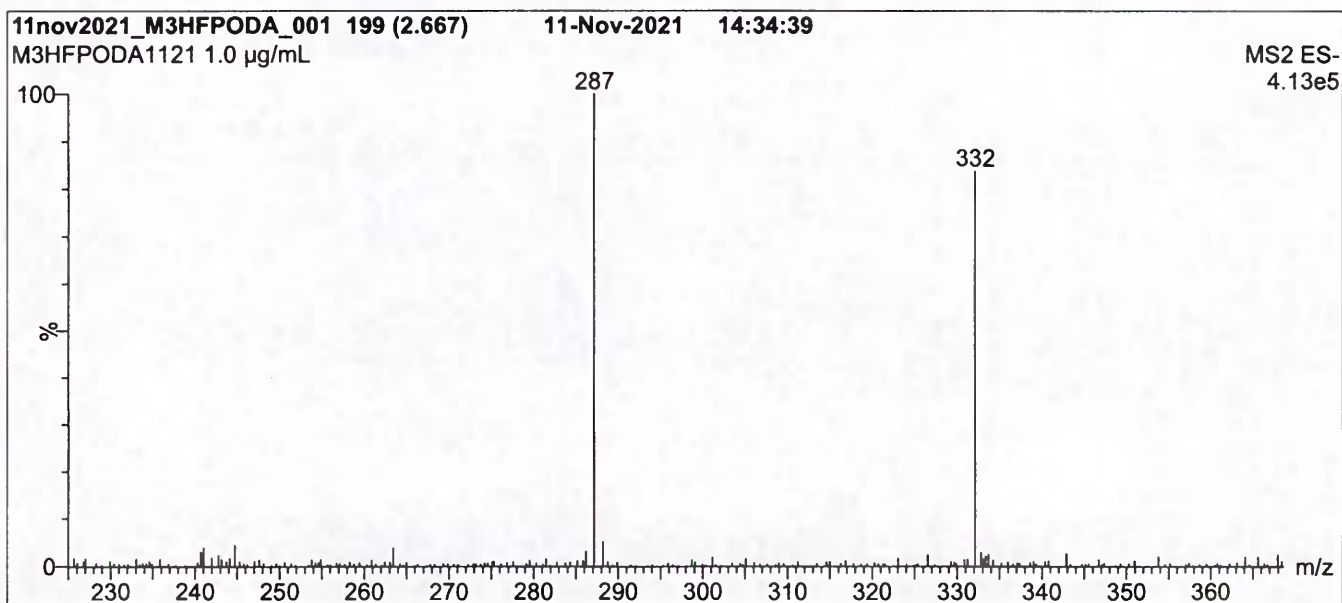
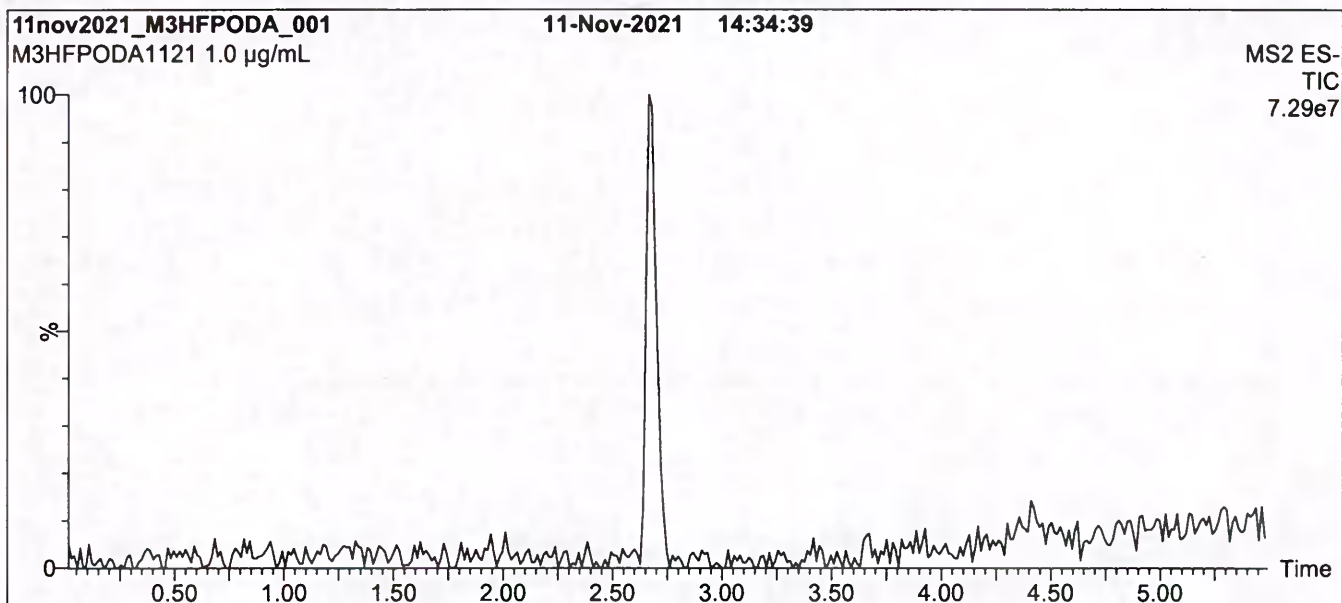
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M3HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H₂O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.75 min.
Time: 12 min

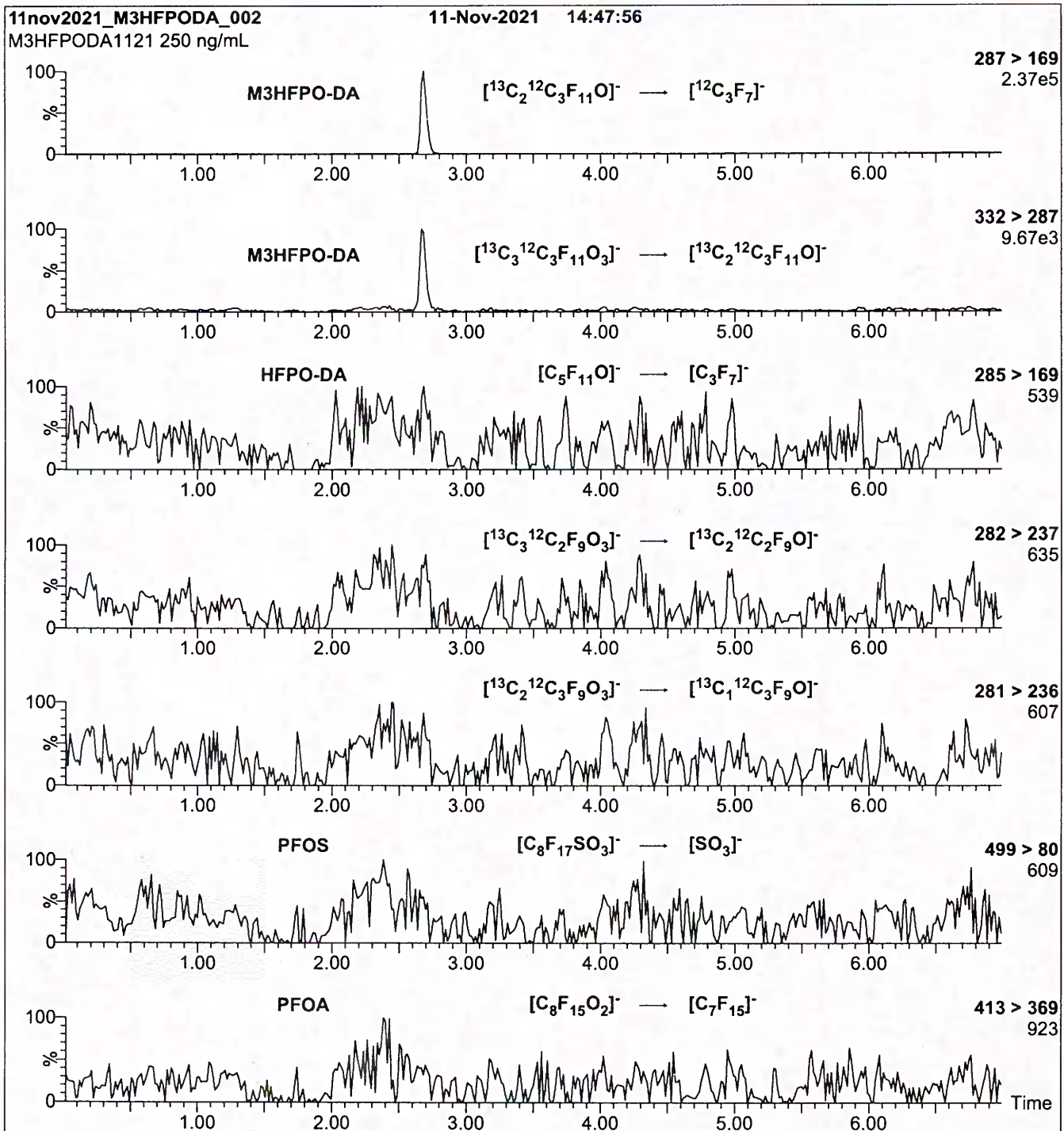
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (M3HFPO-DA)
Mobile phase: Same as Figure 1
Flow: 300 $\mu\text{L}/\text{min}$

MS Parameters:

Collision Gas (mbar) = 3.37e-3
Collision Energy (eV) = 8


Reagent

PFC_ST_01491



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**


2575886
ID: PFC_ST_01491
Exp: 04/26/26 Pprd: PY40
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

- Table A: Components and Concentrations of the Solution/Mixture
- Figure 1: LC/MS Data (SIR)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

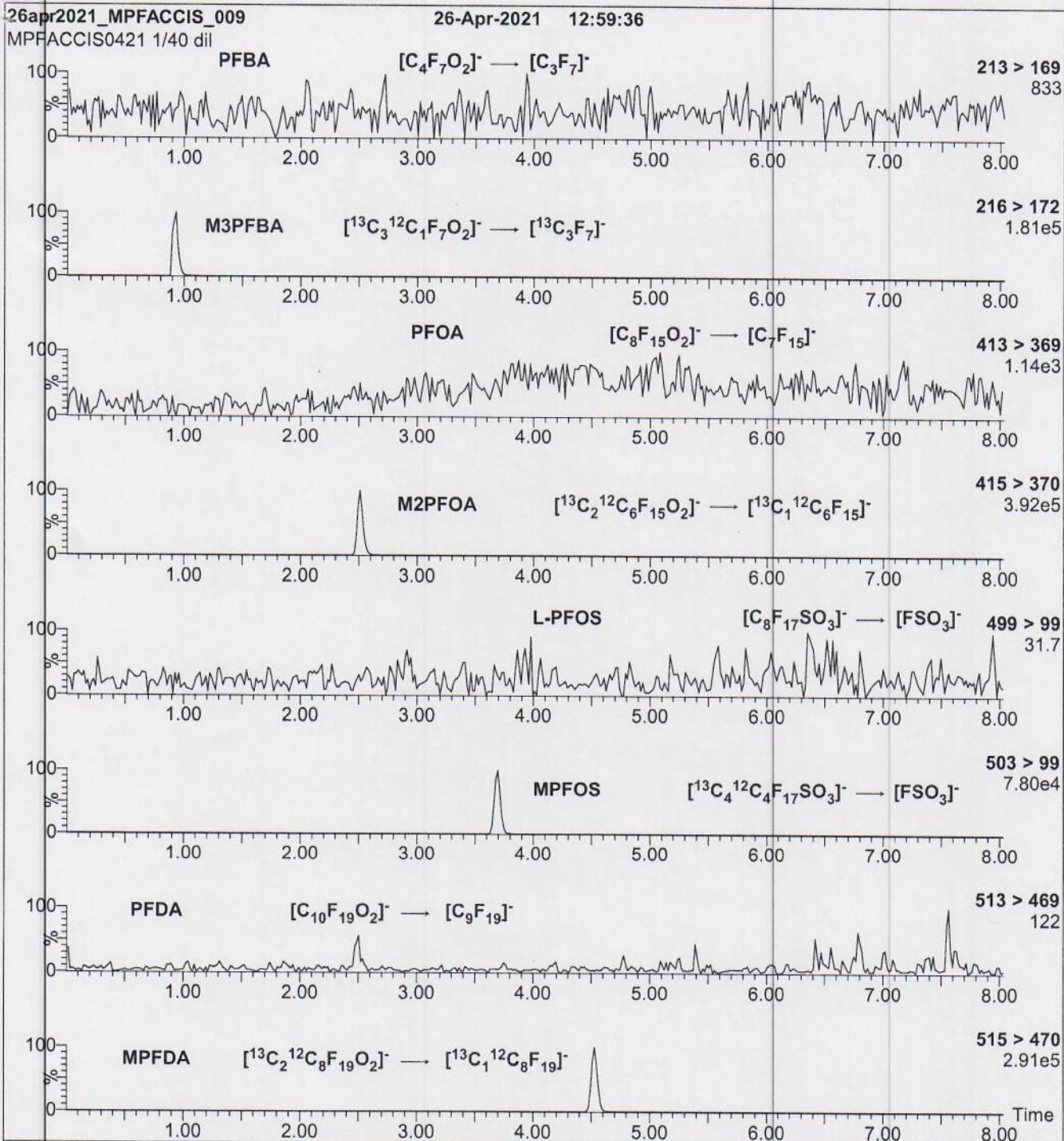
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01559



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**

2685547
ID: PFC_ST_01559
Exp: 04/26/26 Pripd: PY4D Opn: 04/28/22
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
 Figure 1: LC/MS Data (SIR)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

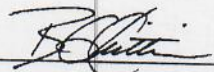
- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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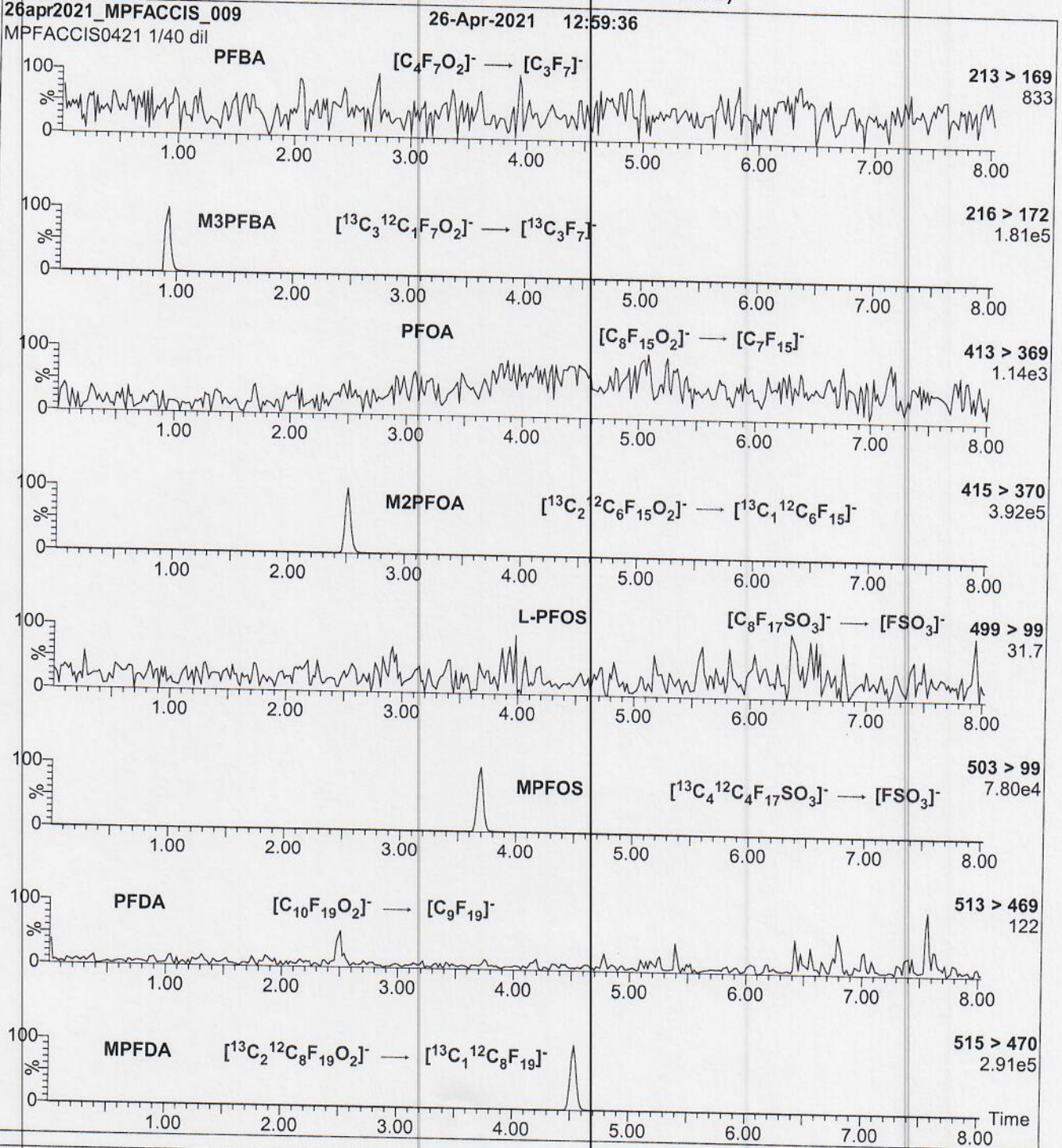
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01597



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2748760
ID: PFC_ST_01597
Exp: 04/26/26 Prpd: PY40
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

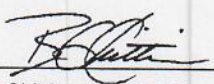
- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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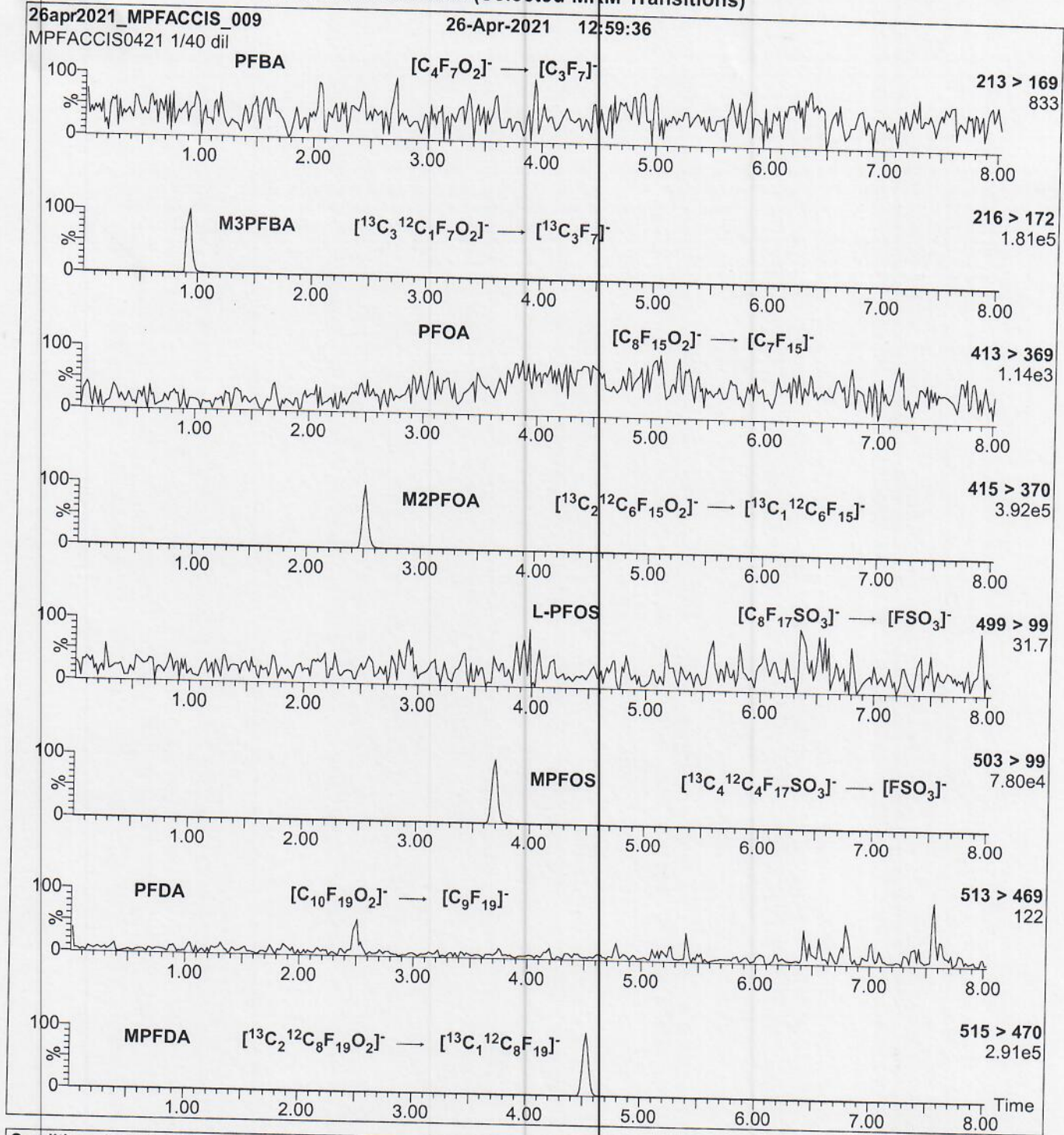
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Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

BFS_IDA

**Bi-functional Surfactants (BFS) by
LC/MS/MS using Isotope Dilution**

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-110S	410-83412-1	86 cn
MW-110D	410-83412-2	87 cn
MW-112S	410-83412-3	80 cn
MW-112D	410-83412-4	78 cn
EB_05092022	410-83412-5	80 cn
AB_05092022	410-83412-6	77 cn
MW-109S-PDB	410-83412-7	72 cn
MW-109S-PDB DL	410-83412-7 DL	124 cn
MW-111S-PDB	410-83412-8	62 cn
MW-111S-PDB DL	410-83412-8 DL	86 cn
MW-111D-PDB	410-83412-9	73 cn
MW-101S	410-83412-10	65 cn
MW-101D	410-83412-11	58 cn
EB_05102022	410-83412-12	85 cn
	MB 410-256031/1-A	94
	LCS 410-256031/2-A	81

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUN01BFS-16.d

Lab ID: LCS 410-256031/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	289	115	70-130	
BFS_A2B3	4.72	5.59	119	70-130	
BFS_A3B	35.8	39.7	111	70-130	
BFS_A3B2	47.2	72.5	154	70-130	*+
BFS_A4B	19.8	23.9	121	70-130	
BFS_AB2	32.1	35.9	112	70-130	
BFS_AB3	268	329	123	70-130	
BFS_B3	114	138	121	70-130	
BFS_B4	62.2	75.4	121	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83412-1

SDG No.:

Lab File ID: 22JUN01BFS-15.d

Lab Sample ID: MB 410-256031/1-A

Matrix: Water

Date Extracted: 05/17/2022 09:01

Instrument ID: 30733

Date Analyzed: 06/01/2022 14:46

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-256031/2-A	22JUN01BFS-16.d	06/01/2022 14:58
MW-110S	410-83412-1	22JUN01BFS-17.d	06/01/2022 15:11
MW-110D	410-83412-2	22JUN01BFS-18.d	06/01/2022 15:24
MW-112S	410-83412-3	22JUN01BFS-19.d	06/01/2022 15:36
MW-112D	410-83412-4	22JUN01BFS-20.d	06/01/2022 15:49
EB_05092022	410-83412-5	22JUN01BFS-21.d	06/01/2022 16:02
AB_05092022	410-83412-6	22JUN01BFS-22.d	06/01/2022 16:14
MW-109S-PDB	410-83412-7	22JUN01BFS-23.d	06/01/2022 16:27
MW-109S-PDB DL	410-83412-7 DL	22JUN01BFS-24.d	06/01/2022 16:39
MW-111S-PDB	410-83412-8	22JUN01BFS-25.d	06/01/2022 16:52
MW-111S-PDB DL	410-83412-8 DL	22JUN01BFS-26.d	06/01/2022 17:04
MW-111D-PDB	410-83412-9	22JUN01BFS-28.d	06/01/2022 17:30
MW-101S	410-83412-10	22JUN01BFS-29.d	06/01/2022 17:42
MW-101D	410-83412-11	22JUN01BFS-30.d	06/01/2022 17:55
EB_05102022	410-83412-12	22JUN01BFS-31.d	06/01/2022 18:08

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-83412-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3 (mm) Calibration End Date: 06/01/2022 13:42
 Calibration ID: 39195

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4485996	5.07				
UPPER LIMIT		6728994	5.47				
LOWER LIMIT		2242998	4.67				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-260772/11		4367531	5.08				
ICV 410-260772/12		4196839	5.08				
CCV 410-260981/1		4561772	5.07				
MB 410-256031/1-A		4638761	5.08				
LCS 410-256031/2-A		5159877	5.08				
410-83412-1	MW-110S	4180202	5.09				
410-83412-2	MW-110D	4161476	5.09				
410-83412-3	MW-112S	4149750	5.08				
410-83412-4	MW-112D	4897554	5.08				
410-83412-5	EB_05092022	5601707	5.08				
410-83412-6	AB_05092022	5237206	5.09				
410-83412-7	MW-109S-PDB	4256437	5.08				
410-83412-7 DL	MW-109S-PDB DL	4255609	5.07				
410-83412-8	MW-111S-PDB	5181476	5.08				
410-83412-8 DL	MW-111S-PDB DL	4627143	5.07				
CCV 410-260981/14		4694877	5.07				
410-83412-9	MW-111D-PDB	4437116	5.07				
410-83412-10	MW-101S	4661257	5.08				
410-83412-11	MW-101D	4199560	5.08				
410-83412-12	EB_05102022	5234177	5.08				
CCV 410-260981/25		4378964	5.07				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83412-1

SDG No.:

Client Sample ID: MW-110S

Lab Sample ID: 410-83412-1

Matrix: Water

Lab File ID: 22JUN01BFS-17.d

Analysis Method: BFS

Date Collected: 05/09/2022 11:13

Extraction Method: 3535

Date Extracted: 05/17/2022 09:01

Sample wt/vol: 279.9(mL)

Date Analyzed: 06/01/2022 15:11

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	24	^2 cn	1.3	0.36
STL02887	BFS_A2B3	9.4	cn	0.98	0.36
STL02880	BFS_A3B	1.4	cn	0.54	0.18
STL02885	BFS_A3B2	7.4	*+ cn	0.71	0.18
STL02883	BFS_A4B	2.2	cn	0.36	0.18
STL02879	BFS_AB2	3.9	cn	0.54	0.071
STL02884	BFS_AB3	95	^2 cn	1.3	0.36
STL02881	BFS_B3	17	^2 cn	0.63	0.27
STL02886	BFS_B4	43	cn	0.98	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	86	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-17.d
 Lims ID: 410-83412-A-1-A
 Client ID: MW-110S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 15:11:32 ALS Bottle#: 15 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:43:02
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.065	4.066	-0.001	0.907	441331	1.09	2883	
2 BFS_A3B	519.00 > 113.00	4.153	4.154	-0.001	0.927	165343	0.3878	167	
3 BFS_B3	553.00 > 345.00	4.298	4.307	-0.009	0.959	1243705	4.63	1305	
4 BFS_A2B2	569.00 > 229.00	4.407	4.407	0.0	0.984	1597158	6.82	1415	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.480	4.481	-0.001	0.880	581643	4.30	86.0	2343
5 BFS_A4B	585.00 > 113.00	4.490	4.490	0.0	1.002	351762	0.6045	698	
7 BFS_AB3	619.00 > 229.00	4.673	4.660	0.013	1.043	5772680	26.7	3425	
8 BFS_A3B2	635.00 > 113.00	4.771	4.772	-0.001	1.065	797795	2.08	1045	
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.093	1425454	12.0	1794	
10 BFS_A2B3	685.00 > 571.00	5.005	5.006	-0.001	1.117	31215	2.63	523	
* 11 13C2 PFOA	415.00 > 370.00	5.092	5.085	0.007		4180202	5.00	3315	

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-17.d

Injection Date: 01-Jun-2022 15:11:32

Instrument ID: 30733

Lims ID: 410-83412-A-1-A

Lab Sample ID: 410-83412-1

Client ID: MW-110S

Operator ID: US19_USR_INS20260

ALS Bottle#: 15

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

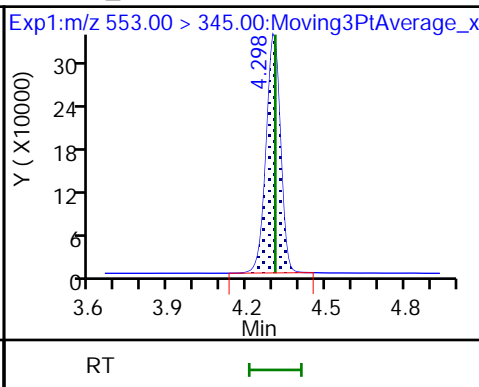
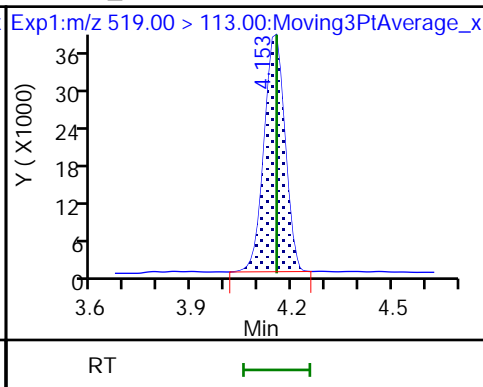
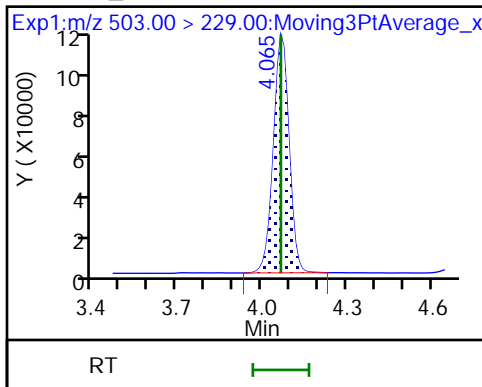
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

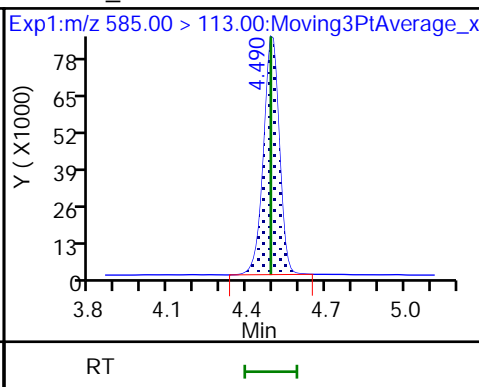
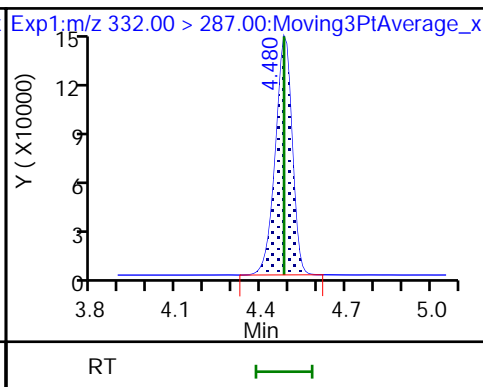
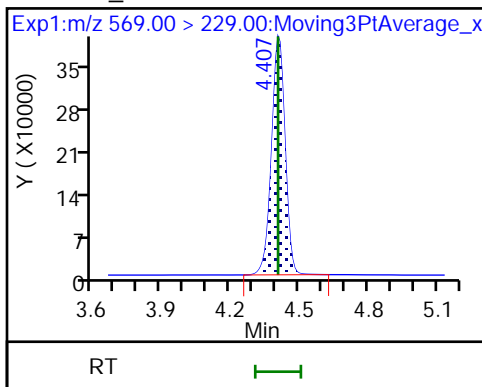
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

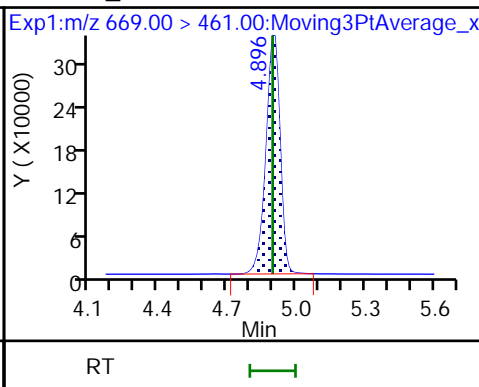
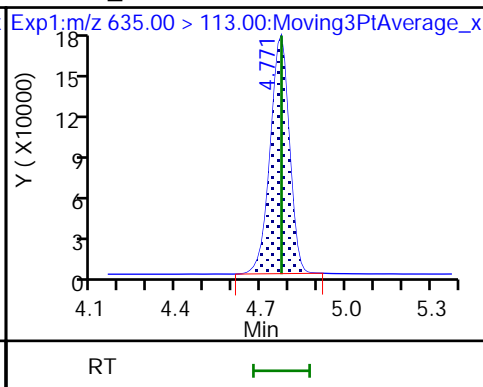
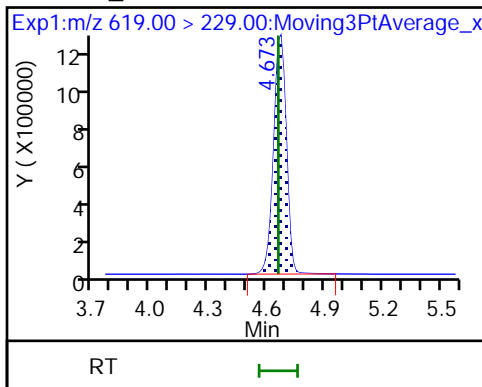
5 BFS_A4B



7 BFS_AB3

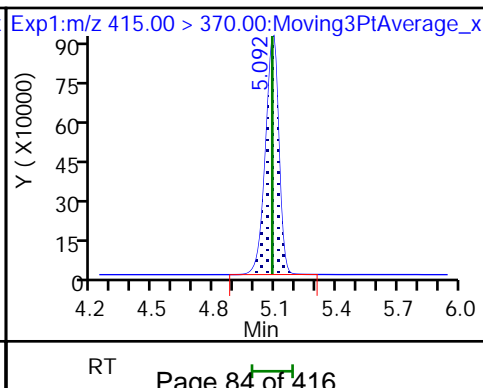
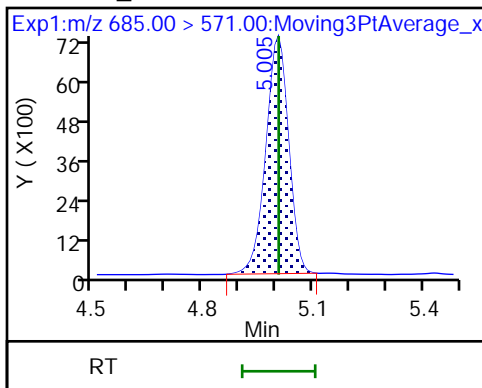
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-110D Lab Sample ID: 410-83412-2

Matrix: Water Lab File ID: 22JUN01BFS-18.d

Analysis Method: BFS Date Collected: 05/09/2022 12:10

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 281.2 (mL) Date Analyzed: 06/01/2022 15:24

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.42	J ^2 cn	1.2	0.36
STL02887	BFS_A2B3	ND	cn	0.98	0.36
STL02880	BFS_A3B	ND	cn	0.53	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.71	0.18
STL02883	BFS_A4B	ND	cn	0.36	0.18
STL02879	BFS_AB2	ND	cn	0.53	0.071
STL02884	BFS_AB3	1.4	^2 cn	1.3	0.36
STL02881	BFS_B3	ND	cn	0.62	0.27
STL02886	BFS_B4	0.48	J cn	0.98	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	87	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-18.d
 Lims ID: 410-83412-A-2-A
 Client ID: MW-110D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 15:24:09 ALS Bottle#: 16 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:43:14
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
4 BFS_A2B2	569.00 > 229.00	4.410	4.407	0.003	0.984	28058	0.1183	65.8	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.483	4.481	0.002	0.881	587431	4.36	87.2	2429
7 BFS_AB3	619.00 > 229.00	4.666	4.660	0.006	1.041	86674	0.3930	167	
9 BFS_B4	669.00 > 461.00	4.903	4.897	0.006	1.093	16160	0.1342	134	
* 11 13C2 PFOA	415.00 > 370.00	5.088	5.085	0.003		4161476	5.00	3256	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-18.d

Injection Date: 01-Jun-2022 15:24:09

Instrument ID: 30733

Lims ID: 410-83412-A-2-A

Lab Sample ID: 410-83412-2

Client ID: MW-110D

Operator ID: US19_USR_INS20260

ALS Bottle#: 16

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

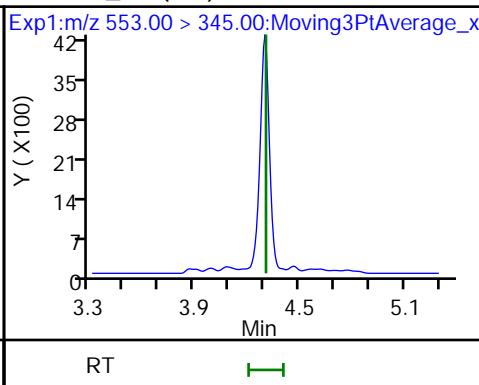
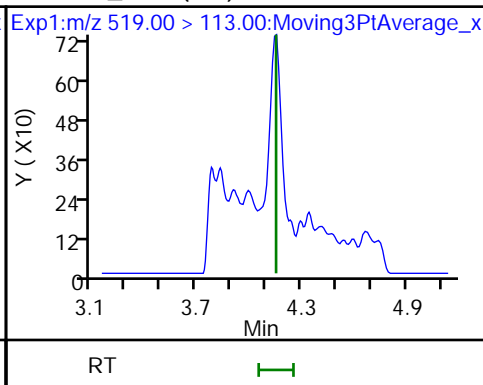
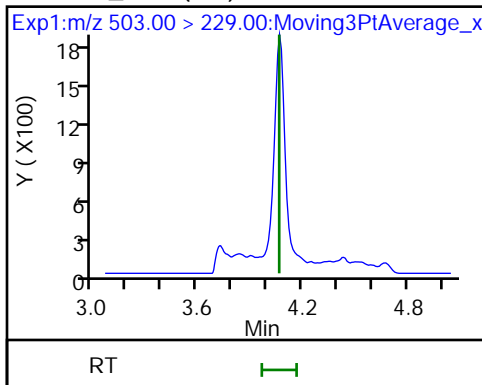
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

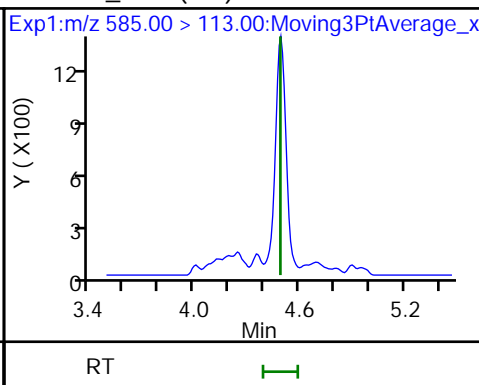
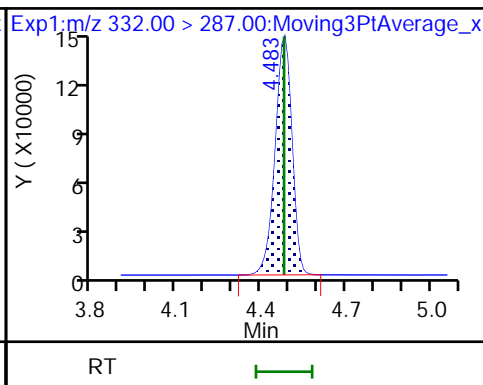
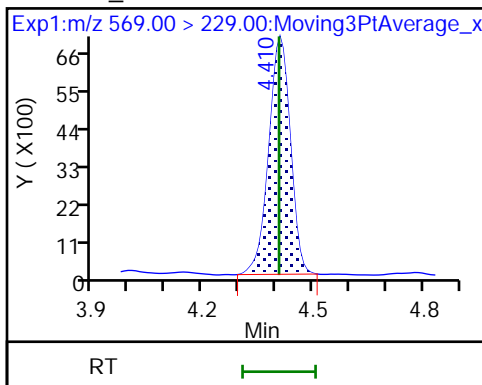
3 BFS_B3 (ND)



4 BFS_A2B2

D 6 13C3 HFPO-DA

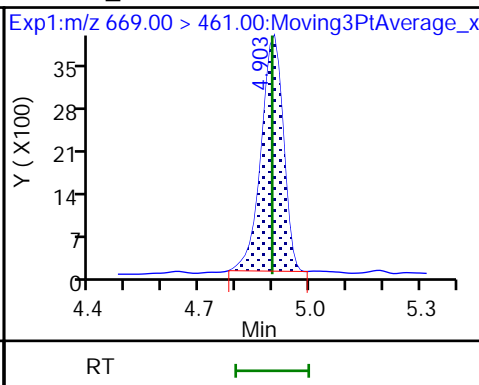
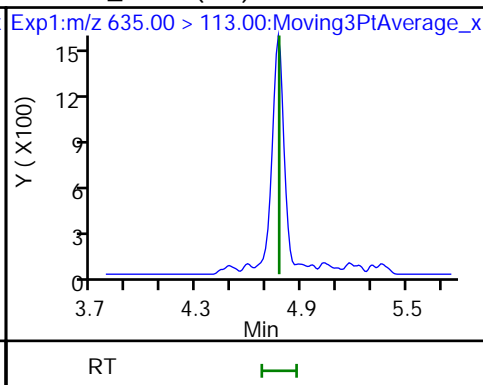
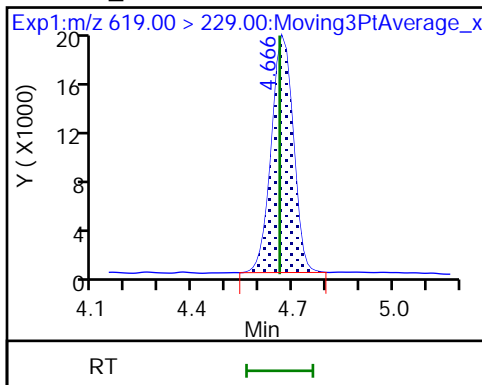
5 BFS_A4B (ND)



7 BFS_AB3

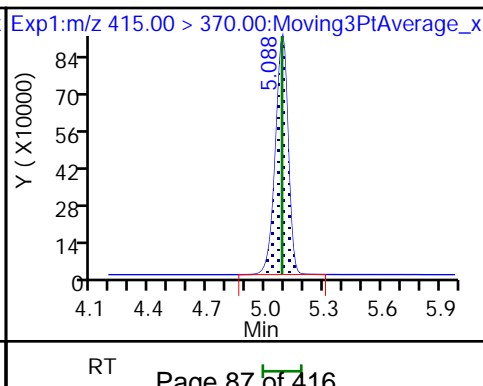
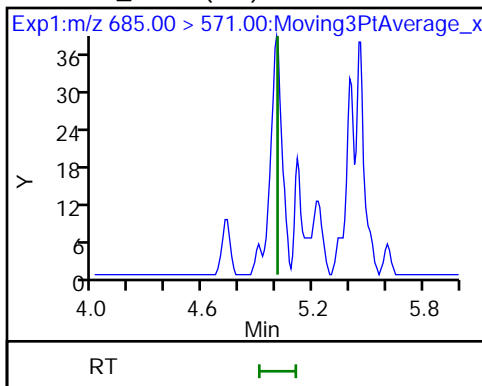
8 BFS_A3B2 (ND)

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S Lab Sample ID: 410-83412-3

Matrix: Water Lab File ID: 22JUN01BFS-19.d

Analysis Method: BFS Date Collected: 05/09/2022 14:38

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 289.1(mL) Date Analyzed: 06/01/2022 15:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.2	0.35
STL02887	BFS_A2B3	ND	cn	0.95	0.35
STL02880	BFS_A3B	ND	cn	0.52	0.17
STL02885	BFS_A3B2	ND	*+ cn	0.69	0.17
STL02883	BFS_A4B	ND	cn	0.35	0.17
STL02879	BFS_AB2	ND	cn	0.52	0.069
STL02884	BFS_AB3	ND	cn	1.3	0.35
STL02881	BFS_B3	ND	cn	0.61	0.26
STL02886	BFS_B4	ND	cn	0.95	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	80	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-19.d
 Lims ID: 410-83412-A-3-A
 Client ID: MW-112S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 15:36:46 ALS Bottle#: 17 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-3-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:43:23
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.469	4.481	-0.012	0.880	539320	4.02	80.3	2248
* 11 13C2 PFOA	415.00 > 370.00	5.076	5.085	-0.009		4149750	5.00		3924

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-19.d

Injection Date: 01-Jun-2022 15:36:46

Instrument ID: 30733

Lims ID: 410-83412-A-3-A

Lab Sample ID: 410-83412-3

Client ID: MW-112S

Operator ID: US19_USR_INS20260

ALS Bottle#: 17

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

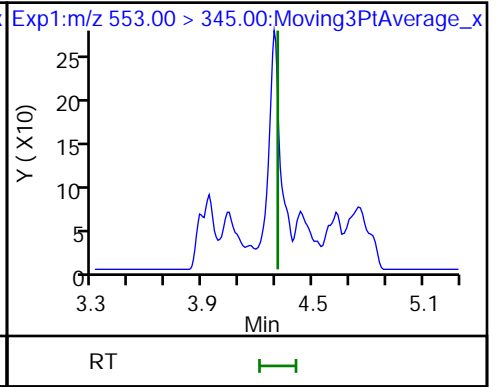
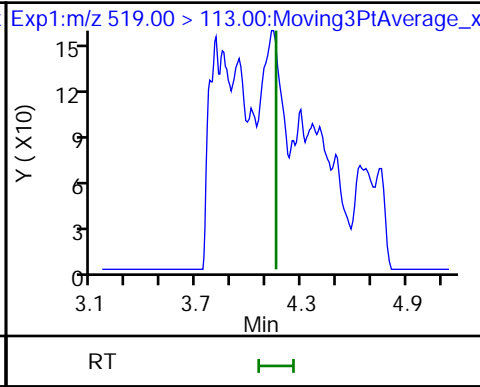
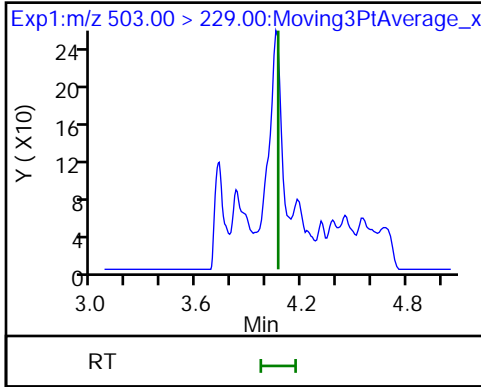
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

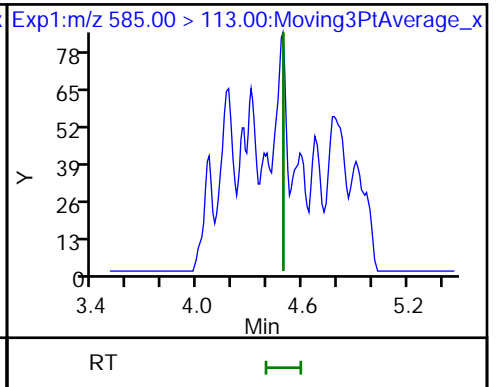
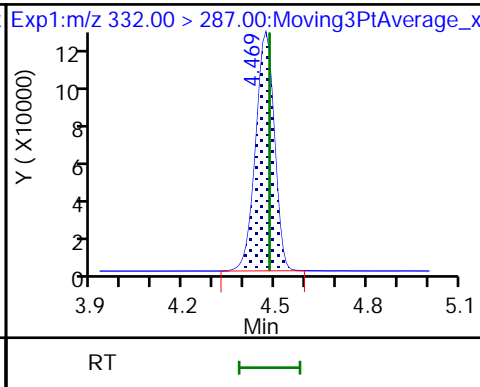
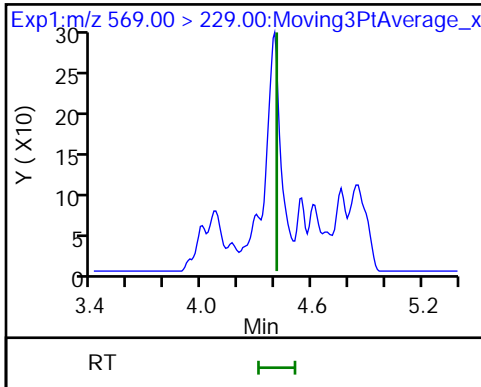
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

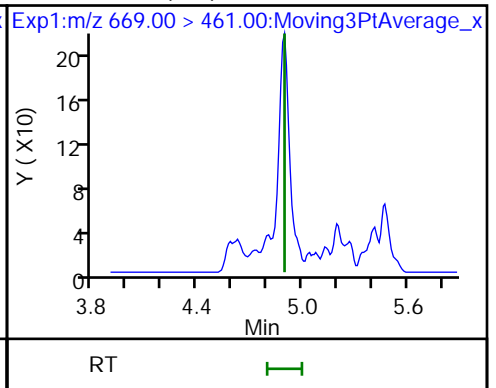
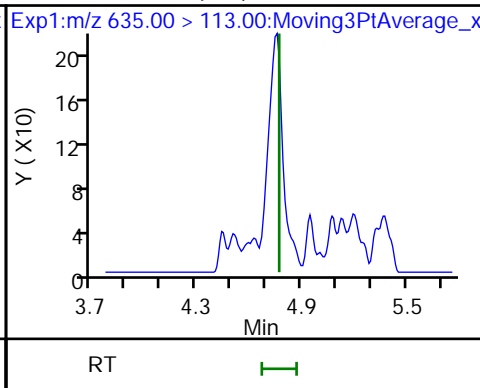
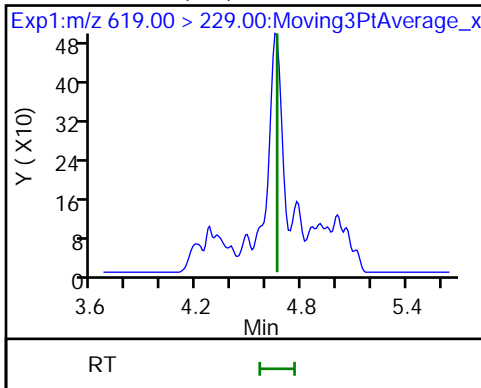
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

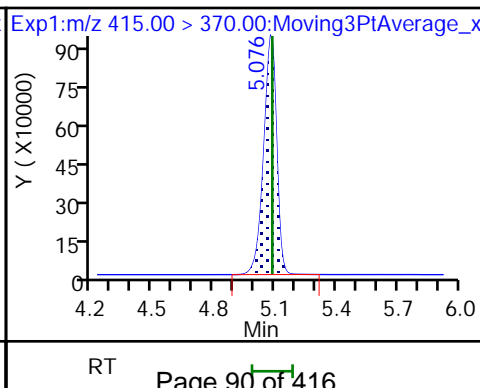
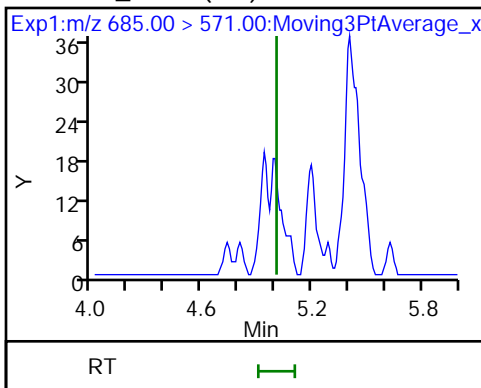
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112D Lab Sample ID: 410-83412-4

Matrix: Water Lab File ID: 22JUN01BFS-20.d

Analysis Method: BFS Date Collected: 05/09/2022 14:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 271.9(mL) Date Analyzed: 06/01/2022 15:49

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.3	0.37
STL02887	BFS_A2B3	ND	cn	1.0	0.37
STL02880	BFS_A3B	ND	cn	0.55	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.74	0.18
STL02883	BFS_A4B	ND	cn	0.37	0.18
STL02879	BFS_AB2	ND	cn	0.55	0.074
STL02884	BFS_AB3	ND	cn	1.4	0.37
STL02881	BFS_B3	ND	cn	0.64	0.28
STL02886	BFS_B4	ND	cn	1.0	0.37

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-20.d
 Lims ID: 410-83412-A-4-A
 Client ID: MW-112D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 15:49:23 ALS Bottle#: 18 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-4-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:43:32
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.472 4.481 -0.009 0.881 618131 3.90 78.0 2437
 * 11 13C2 PFOA
 415.00 > 370.00 5.075 5.085 -0.010 4897554 5.00 4170

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-20.d

Injection Date: 01-Jun-2022 15:49:23

Instrument ID: 30733

Lims ID: 410-83412-A-4-A

Lab Sample ID: 410-83412-4

Client ID: MW-112D

Operator ID: US19_USR_INS20260

ALS Bottle#: 18

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

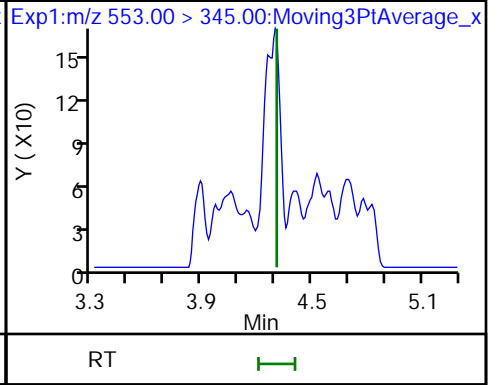
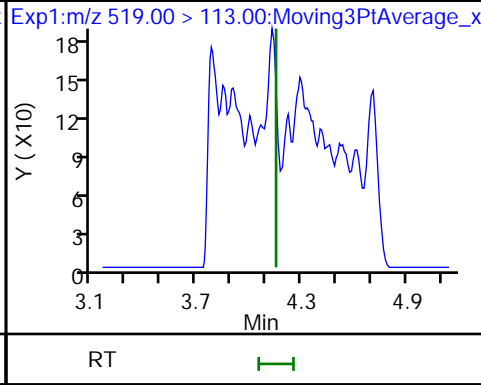
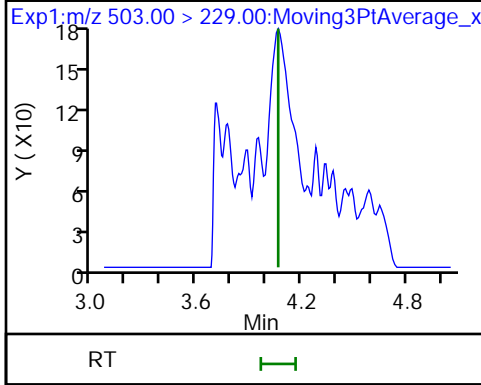
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

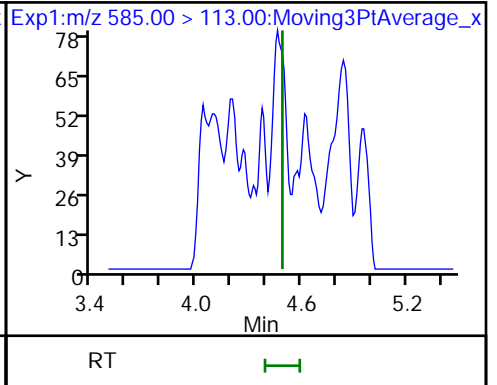
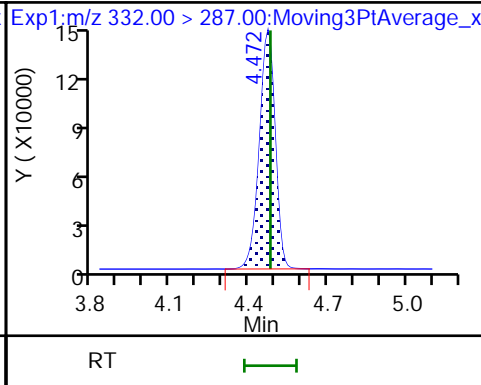
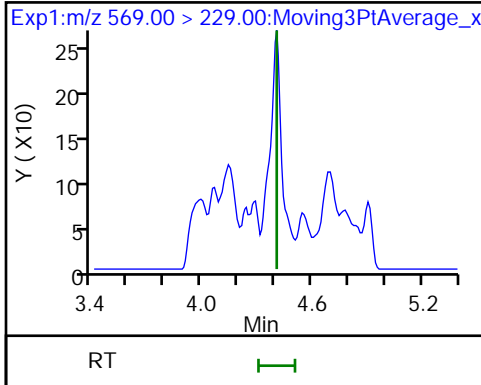
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

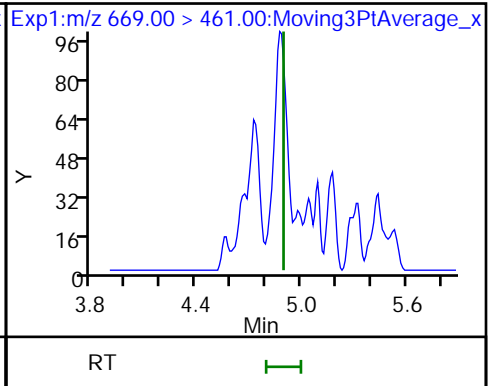
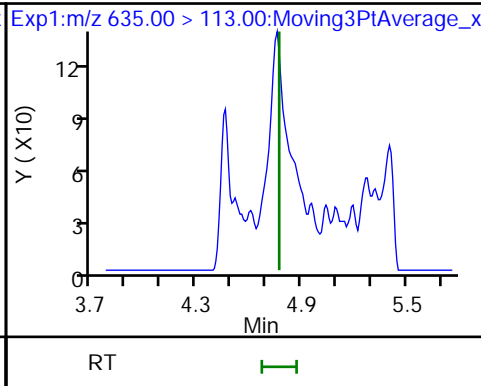
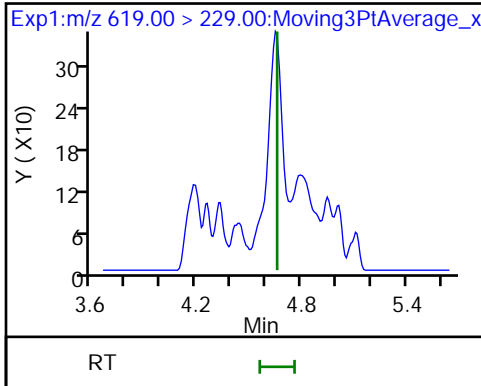
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

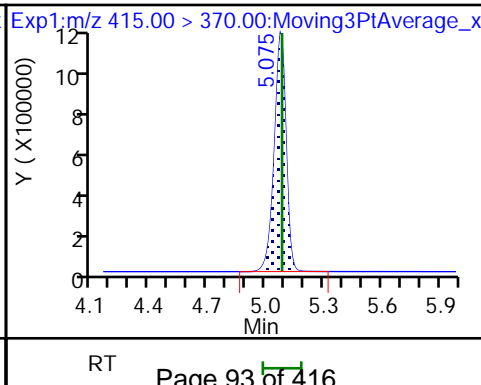
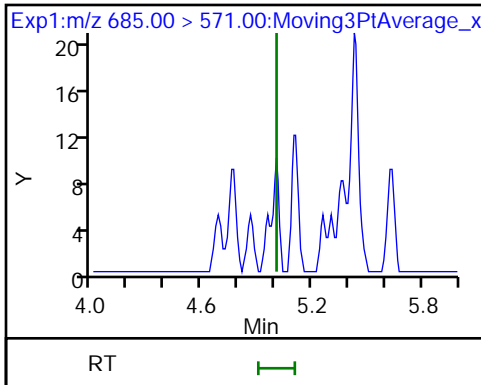
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_05092022 Lab Sample ID: 410-83412-5

Matrix: Water Lab File ID: 22JUN01BFS-21.d

Analysis Method: BFS Date Collected: 05/09/2022 11:50

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 252.7(mL) Date Analyzed: 06/01/2022 16:02

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.4	0.40
STL02887	BFS_A2B3	ND	cn	1.1	0.40
STL02880	BFS_A3B	ND	cn	0.59	0.20
STL02885	BFS_A3B2	ND	*+ cn	0.79	0.20
STL02883	BFS_A4B	ND	cn	0.40	0.20
STL02879	BFS_AB2	ND	cn	0.59	0.079
STL02884	BFS_AB3	ND	cn	1.5	0.40
STL02881	BFS_B3	ND	cn	0.69	0.30
STL02886	BFS_B4	ND	cn	1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	80	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-21.d
 Lims ID: 410-83412-A-5-A
 Client ID: EB_05092022
 Sample Type: Client
 Inject. Date: 01-Jun-2022 16:02:00 ALS Bottle#: 19 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-5-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: krueh Date: 02-Jun-2022 06:43:40
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.472 4.481 -0.009 0.881 724225 3.99 79.9 2635
 * 11 13C2 PFOA
 415.00 > 370.00 5.077 5.085 -0.008 5601707 5.00 3857

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-21.d

Injection Date: 01-Jun-2022 16:02:00

Instrument ID: 30733

Lims ID: 410-83412-A-5-A

Lab Sample ID: 410-83412-5

Client ID: EB_05092022

Operator ID: US19_USR_INS20260

ALS Bottle#: 19

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

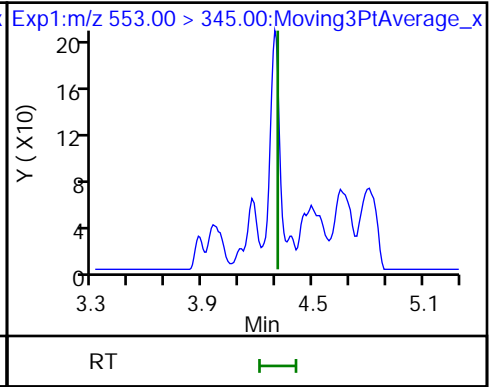
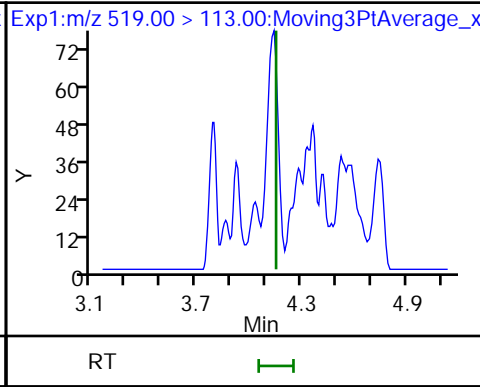
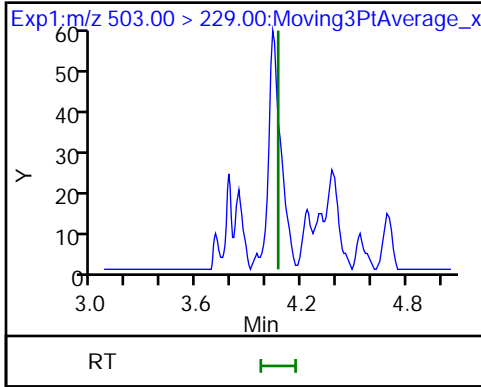
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

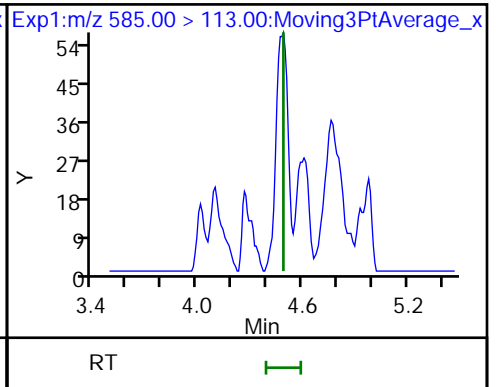
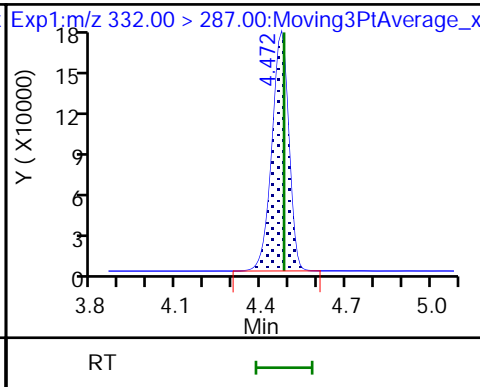
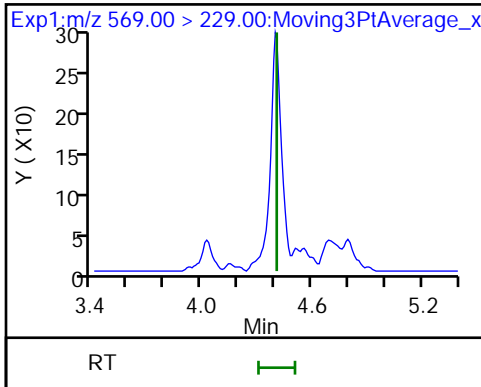
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

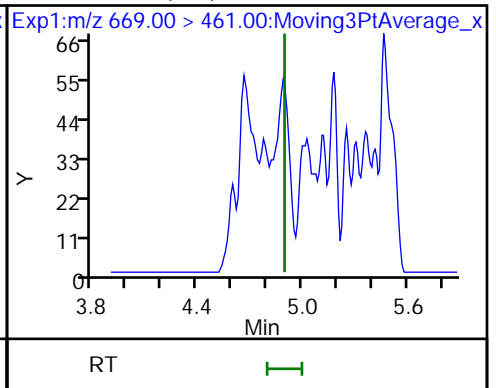
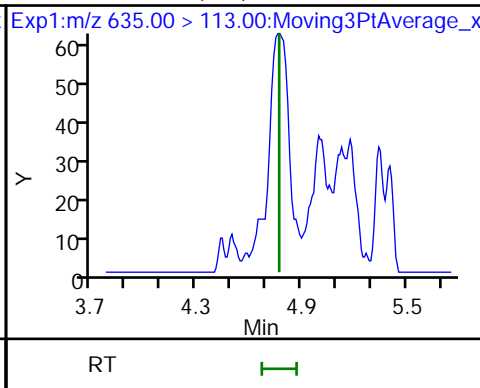
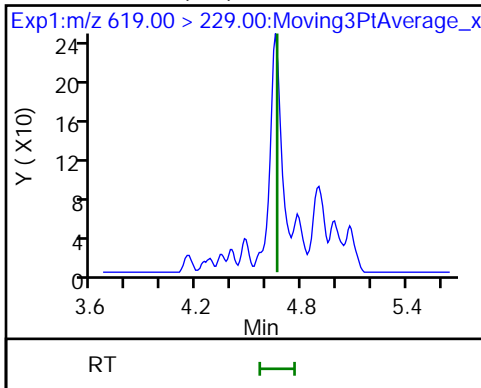
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

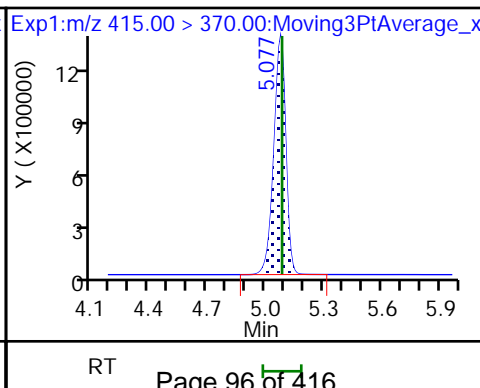
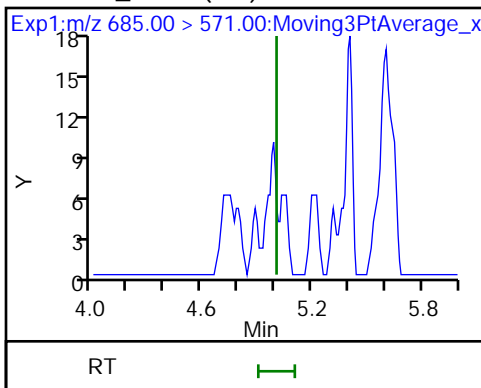
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: AB_05092022 Lab Sample ID: 410-83412-6

Matrix: Water Lab File ID: 22JUN01BFS-22.d

Analysis Method: BFS Date Collected: 05/09/2022 11:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 266.4(mL) Date Analyzed: 06/01/2022 16:14

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.3	0.38
STL02887	BFS_A2B3	ND	cn	1.0	0.38
STL02880	BFS_A3B	ND	cn	0.56	0.19
STL02885	BFS_A3B2	ND	*+ cn	0.75	0.19
STL02883	BFS_A4B	ND	cn	0.38	0.19
STL02879	BFS_AB2	ND	cn	0.56	0.075
STL02884	BFS_AB3	ND	cn	1.4	0.38
STL02881	BFS_B3	ND	cn	0.66	0.28
STL02886	BFS_B4	ND	cn	1.0	0.38

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-22.d
 Lims ID: 410-83412-A-6-A
 Client ID: AB_05092022
 Sample Type: Client
 Inject. Date: 01-Jun-2022 16:14:37 ALS Bottle#: 20 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-6-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:43:48
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.471 4.481 -0.010 0.879 655206 3.87 77.3 2829
 * 11 13C2 PFOA
 415.00 > 370.00 5.085 5.085 0.0 5237206 5.00 4077

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-22.d

Injection Date: 01-Jun-2022 16:14:37

Instrument ID: 30733

Lims ID: 410-83412-A-6-A

Lab Sample ID: 410-83412-6

Client ID: AB_05092022

Operator ID: US19_USR_INS20260

ALS Bottle#: 20

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

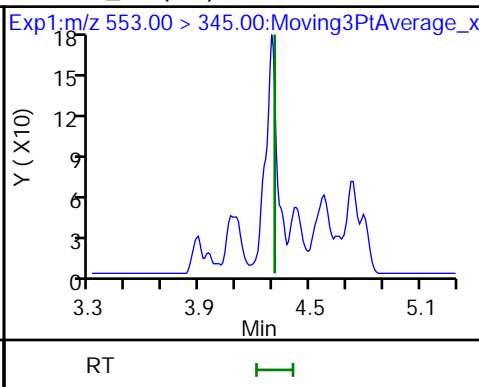
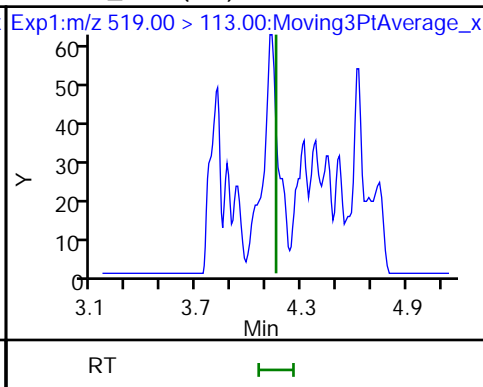
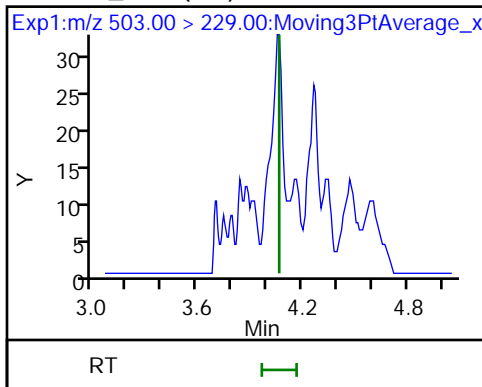
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

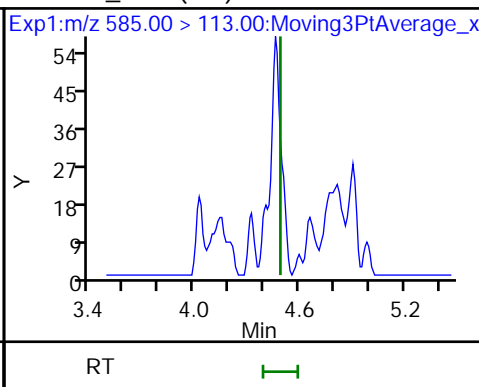
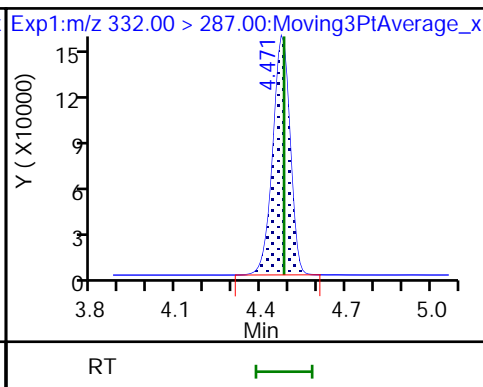
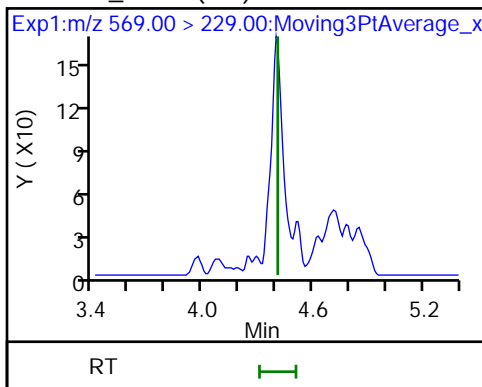
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

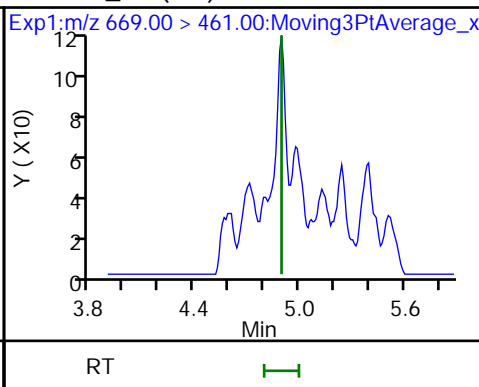
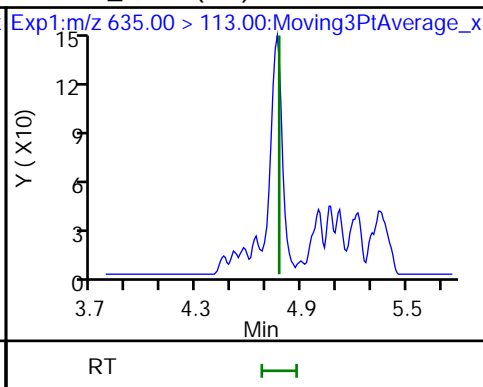
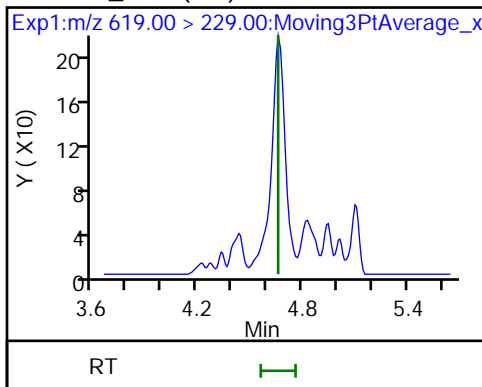
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

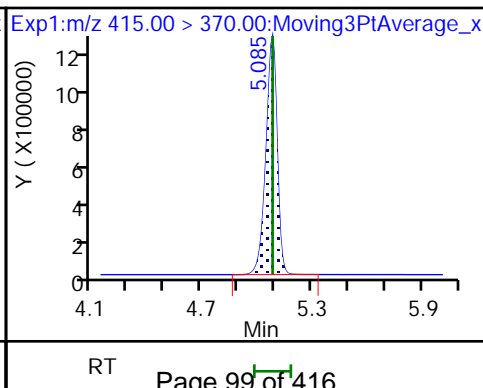
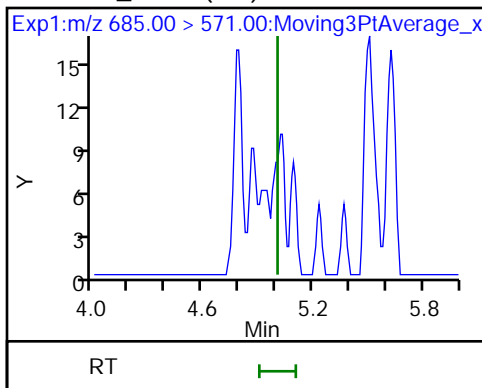
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S-PDB Lab Sample ID: 410-83412-7

Matrix: Water Lab File ID: 22JUN01BFS-23.d

Analysis Method: BFS Date Collected: 05/09/2022 10:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 280.7(mL) Date Analyzed: 06/01/2022 16:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	86	^2 cn	1.2	0.36
STL02880	BFS_A3B	11	cn	0.53	0.18
STL02885	BFS_A3B2	40	*+ cn	0.71	0.18
STL02883	BFS_A4B	9.2	cn	0.36	0.18
STL02879	BFS_AB2	26	cn	0.53	0.071
STL02884	BFS_AB3	300	^2 cn	1.3	0.36
STL02881	BFS_B3	80	^2 cn	0.62	0.27
STL02886	BFS_B4	120	cn	0.98	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72	cn	50-150

Euromins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-23.d
 Lims ID: 410-83412-A-7-A
 Client ID: MW-109S-PDB
 Sample Type: Client
 Inject. Date: 01-Jun-2022 16:27:14 ALS Bottle#: 21 Worklist Smp#: 10
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-7-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:43:56
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.065	4.066	-0.001	0.907	2498120	7.18	20193	
2 BFS_A3B	519.00 > 113.00	4.141	4.154	-0.013	0.924	1103807	3.02	633	
3 BFS_B3	553.00 > 345.00	4.298	4.307	-0.009	0.959	5128157	22.5	6466	
4 BFS_A2B2	569.00 > 229.00	4.406	4.407	-0.001	0.984	4830146	24.3	2873	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.479	4.481	-0.002	0.881	498095	3.62	72.3	2228
5 BFS_A4B	585.00 > 113.00	4.489	4.490	-0.001	1.002	1287814	2.58	1712	
7 BFS_AB3	619.00 > 229.00	4.659	4.660	-0.001	1.040	15482217	85.1	14918	
8 BFS_A3B2	635.00 > 113.00	4.761	4.772	-0.011	1.063	3664493	11.2	3025	
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.093	3358201	32.9	2247	
10 BFS_A2B3	685.00 > 571.00	5.006	5.006	0.0	1.117	162034	16.0	1048	E
* 11 13C2 PFOA	415.00 > 370.00	5.084	5.085	-0.001		4256437	5.00	3379	E

[QC Flag Legend](#)

Processing Flags

E - Exceeded Maximum Amount

[Reagents:](#)

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-23.d

Injection Date: 01-Jun-2022 16:27:14

Instrument ID: 30733

Lims ID: 410-83412-A-7-A

Lab Sample ID: 410-83412-7

Client ID: MW-109S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 21

Worklist Smp#: 10

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

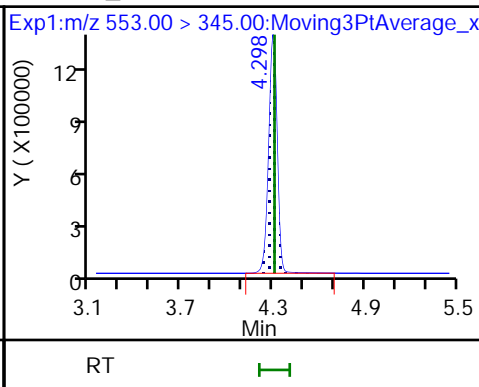
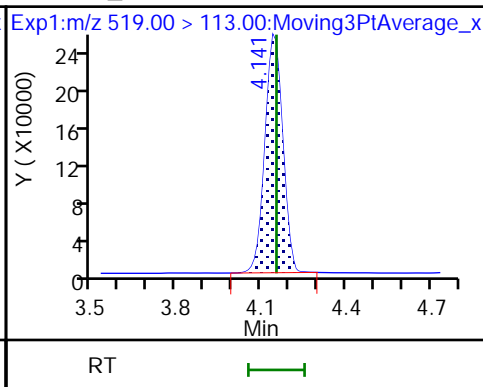
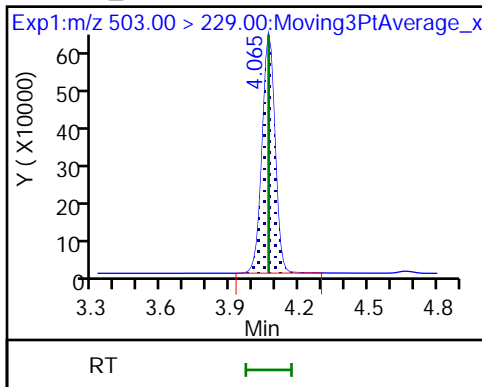
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

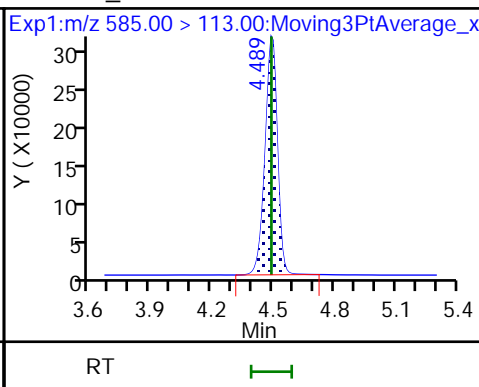
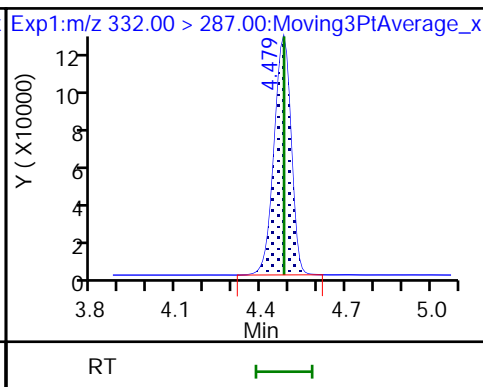
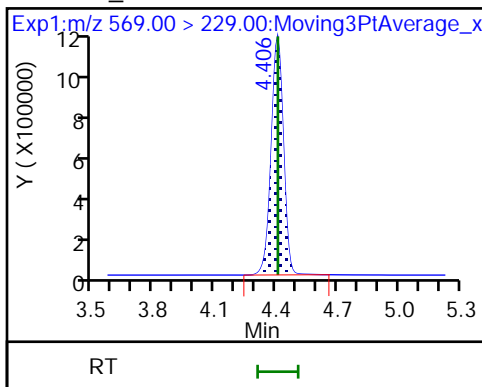
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

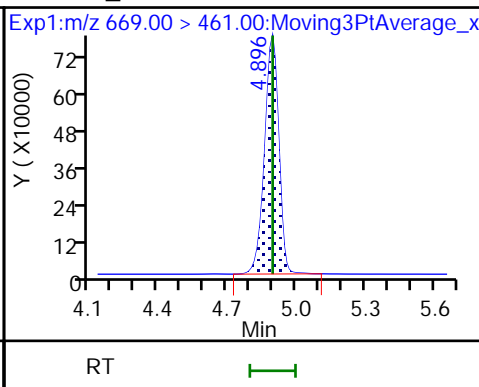
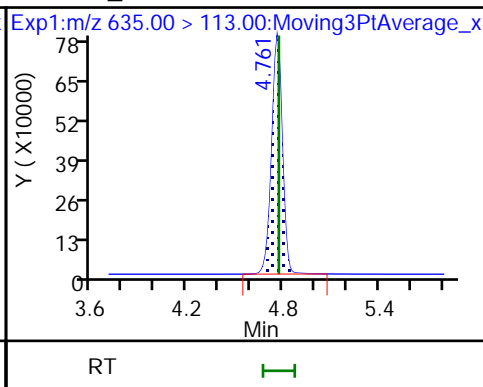
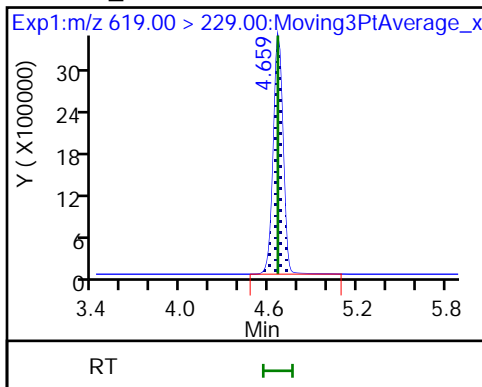
5 BFS_A4B



7 BFS_AB3

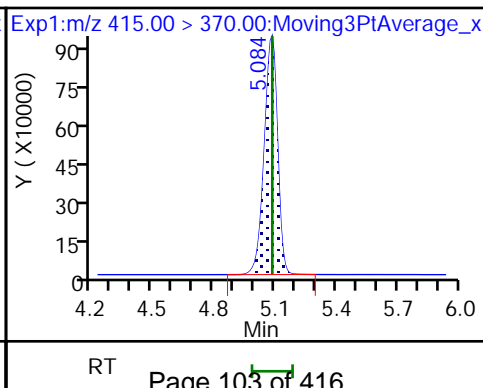
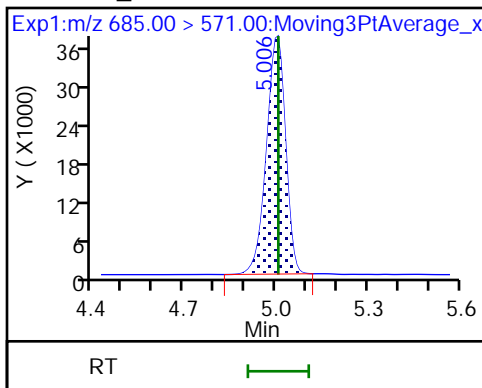
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S-PDB DL Lab Sample ID: 410-83412-7 DL

Matrix: Water Lab File ID: 22JUN01BFS-24.d

Analysis Method: BFS Date Collected: 05/09/2022 10:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 280.7(mL) Date Analyzed: 06/01/2022 16:39

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02887	BFS_A2B3	76	cn	9.8	3.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	124	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-24.d
 Lims ID: 410-83412-A-7-A
 Client ID: MW-109S-PDB
 Sample Type: Client
 Inject. Date: 01-Jun-2022 16:39:51 ALS Bottle#: 45 Worklist Smp#: 11
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83412-A-7-A 10x
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:44:06
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.057	4.066	-0.009	0.909	310397	0.5186	4038	
2 BFS_A3B	519.00 > 113.00	4.132	4.154	-0.022	0.926	122705	0.1953	221	
3 BFS_B3	553.00 > 345.00	4.284	4.307	-0.023	0.960	585229	1.48	936	
4 BFS_A2B2	569.00 > 229.00	4.392	4.407	-0.015	0.984	593449	1.72	921	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.464	4.481	-0.017	0.880	85720	0.6223	124	755
5 BFS_A4B	585.00 > 113.00	4.473	4.490	-0.017	1.002	149444	0.1743	564	
7 BFS_AB3	619.00 > 229.00	4.641	4.660	-0.019	1.040	2005052	6.24	2618	
8 BFS_A3B2	635.00 > 113.00	4.754	4.772	-0.018	1.065	492958	0.8734	1023	
9 BFS_B4	669.00 > 461.00	4.880	4.897	-0.017	1.093	701051	3.99	1270	
10 BFS_A2B3	685.00 > 571.00	4.991	5.006	-0.015	1.118	37075	2.12	432	
* 11 13C2 PFOA	415.00 > 370.00	5.069	5.085	-0.016		4255609	5.00	2777	

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-24.d

Injection Date: 01-Jun-2022 16:39:51

Instrument ID: 30733

Lims ID: 410-83412-A-7-A

Lab Sample ID: 410-83412-7

Client ID: MW-109S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 45

Worklist Smp#: 11

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

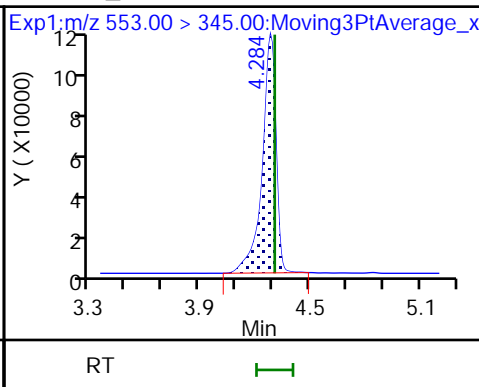
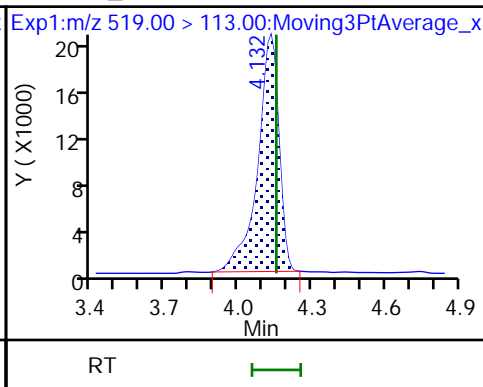
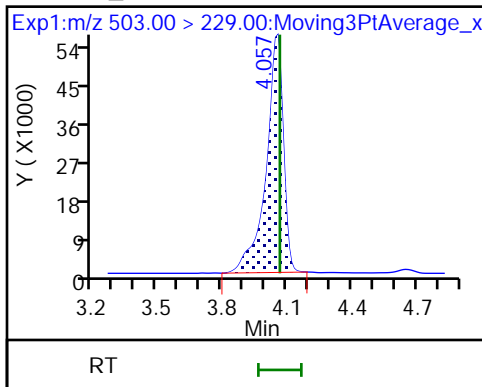
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

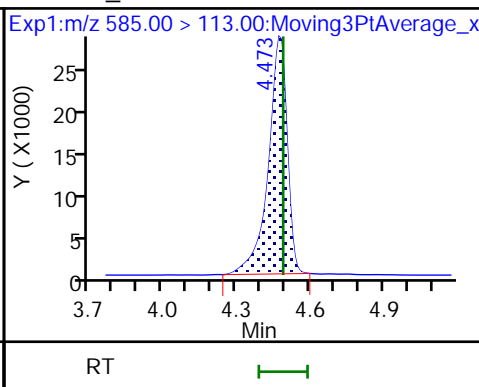
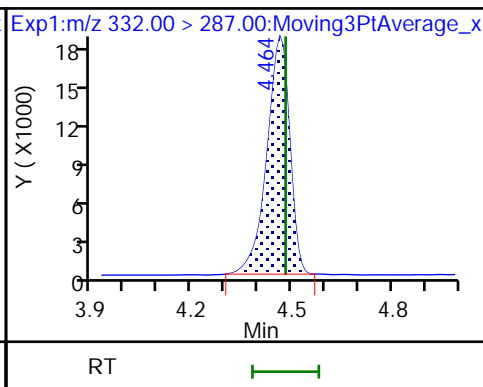
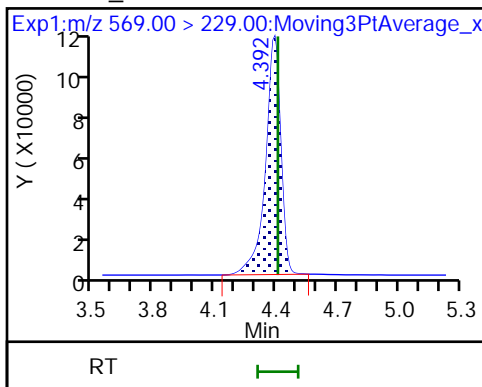
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

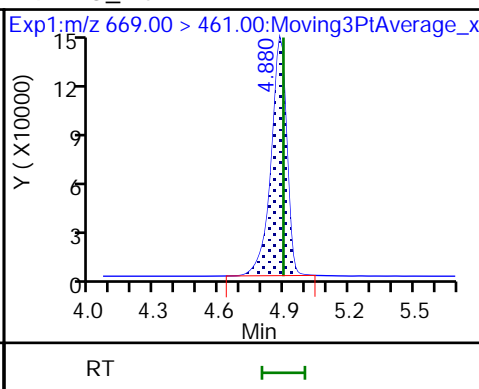
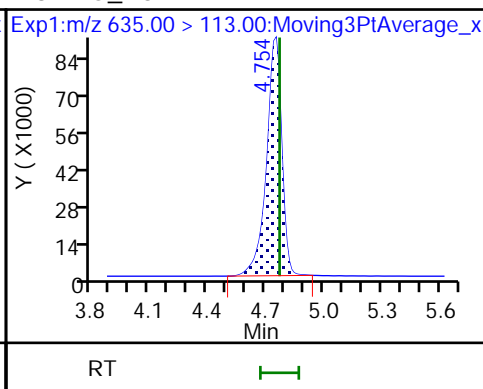
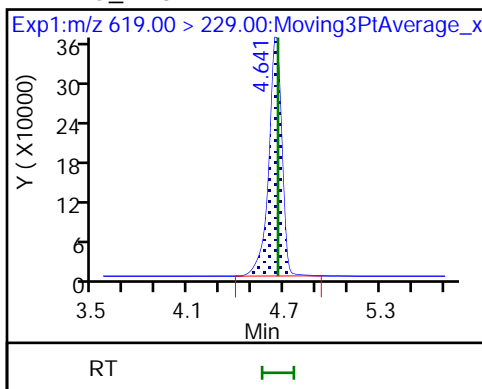
5 BFS_A4B



7 BFS_AB3

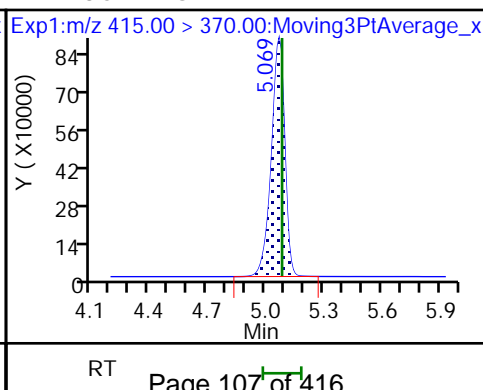
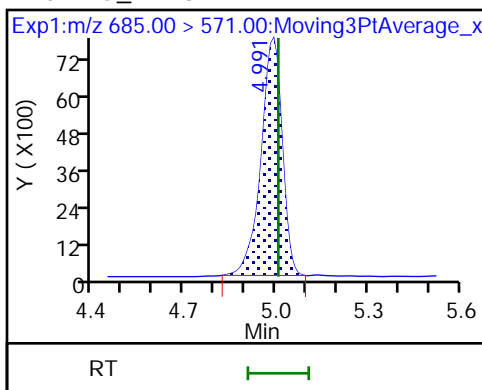
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S-PDB Lab Sample ID: 410-83412-8

Matrix: Water Lab File ID: 22JUN01BFS-25.d

Analysis Method: BFS Date Collected: 05/09/2022 10:20

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 285.2 (mL) Date Analyzed: 06/01/2022 16:52

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	170	^2 cn	1.2	0.35
STL02880	BFS_A3B	38	cn	0.53	0.18
STL02885	BFS_A3B2	32	*+ cn	0.70	0.18
STL02883	BFS_A4B	15	cn	0.35	0.18
STL02879	BFS_AB2	41	cn	0.53	0.070
STL02884	BFS_AB3	290	^2 cn	1.3	0.35
STL02881	BFS_B3	120	^2 cn	0.61	0.26
STL02886	BFS_B4	95	cn	0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	62	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-25.d
 Lims ID: 410-83412-A-8-A
 Client ID: MW-111S-PDB
 Sample Type: Client
 Inject. Date: 01-Jun-2022 16:52:25 ALS Bottle#: 22 Worklist Smp#: 12
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-8-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:44:12
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.059	4.066	-0.007	0.907	4194195	11.6	32191	
2 BFS_A3B	519.00 > 113.00	4.147	4.154	-0.007	0.926	4065280	10.7	1659	
3 BFS_B3	553.00 > 345.00	4.295	4.307	-0.012	0.959	8405125	35.5	10019	
4 BFS_A2B2	569.00 > 229.00	4.404	4.407	-0.003	0.984	10050538	49.1	30274	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.477	4.481	-0.004	0.882	518471	3.09	61.8	2691
5 BFS_A4B	585.00 > 113.00	4.487	4.490	-0.003	1.002	2255272	4.35	2315	
7 BFS_AB3	619.00 > 229.00	4.657	4.660	-0.003	1.040	15557935	82.1	35643	
8 BFS_A3B2	635.00 > 113.00	4.759	4.772	-0.013	1.063	3156048	9.24	2182	
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.094	2893784	27.2	2182	
10 BFS_A2B3	685.00 > 571.00	4.997	5.006	-0.009	1.116	144330	13.7	1208	E
* 11 13C2 PFOA	415.00 > 370.00	5.075	5.085	-0.010		5181476	5.00	3627	E

[QC Flag Legend](#)

Processing Flags

E - Exceeded Maximum Amount

[Reagents:](#)

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-25.d

Injection Date: 01-Jun-2022 16:52:25

Instrument ID: 30733

Lims ID: 410-83412-A-8-A

Lab Sample ID: 410-83412-8

Client ID: MW-111S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 12

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

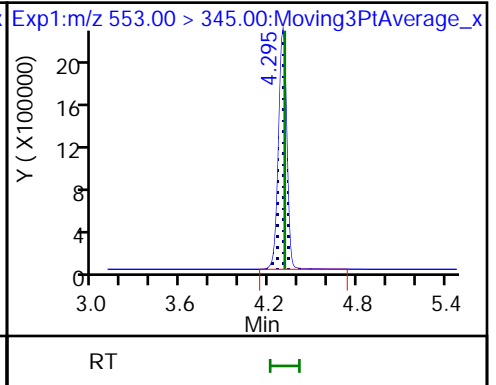
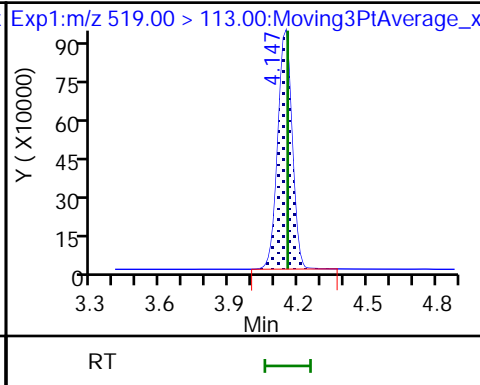
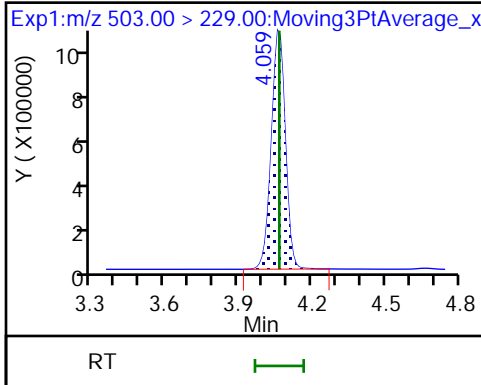
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

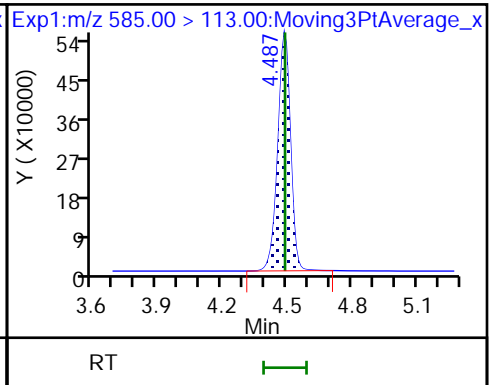
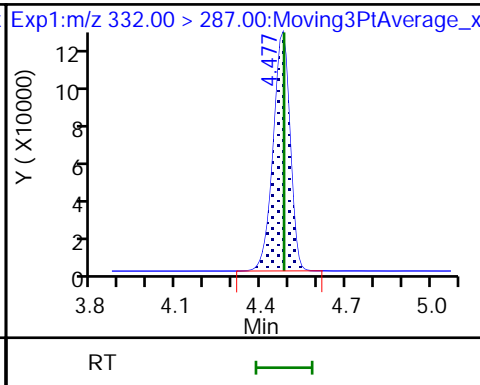
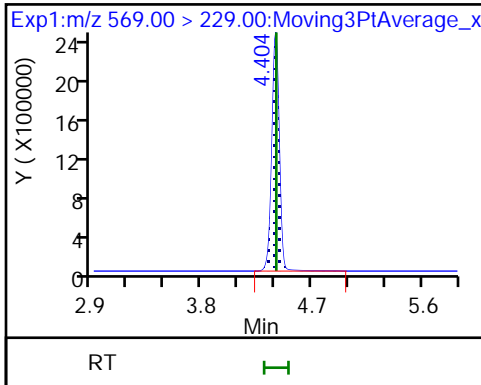
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

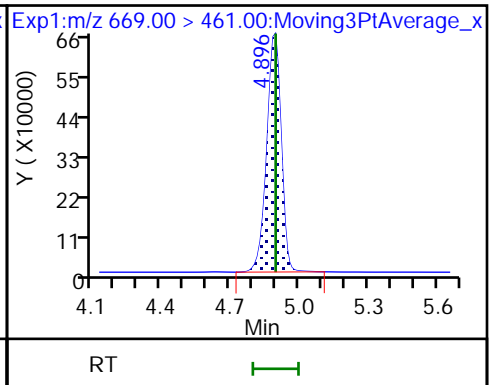
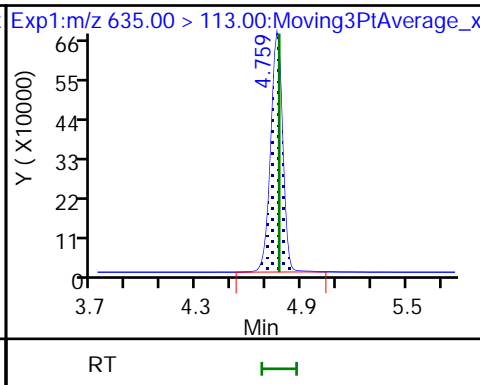
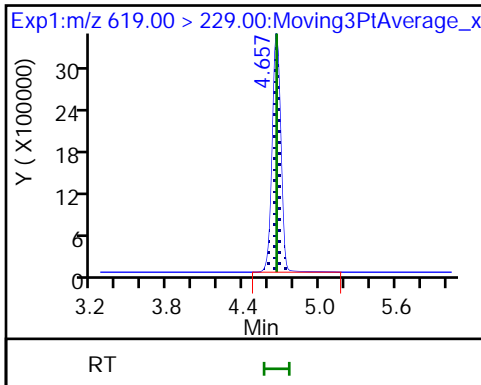
5 BFS_A4B



7 BFS_AB3

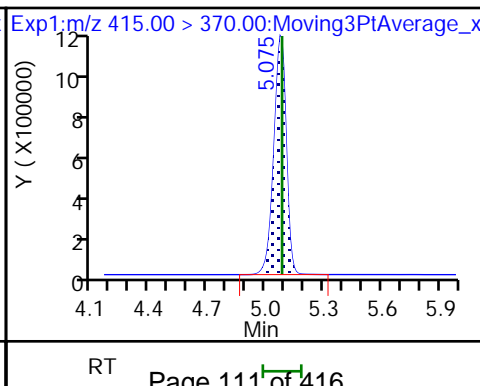
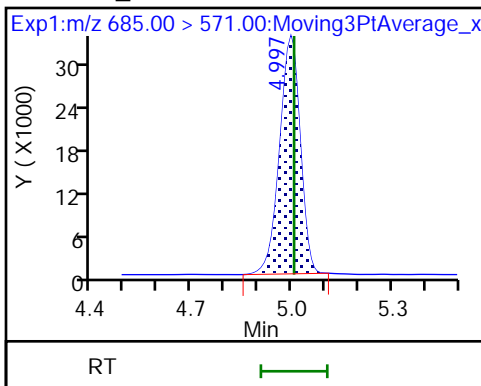
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S-PDB DL Lab Sample ID: 410-83412-8 DL

Matrix: Water Lab File ID: 22JUN01BFS-26.d

Analysis Method: BFS Date Collected: 05/09/2022 10:20

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 285.2 (mL) Date Analyzed: 06/01/2022 17:04

Con. Extract Vol.: 1 (mL) Dilution Factor: 10

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02887	BFS_A2B3	39	cn	9.6	3.5

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	86	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-26.d
 Lims ID: 410-83412-A-8-A
 Client ID: MW-111S-PDB
 Sample Type: Client
 Inject. Date: 01-Jun-2022 17:04:59 ALS Bottle#: 46 Worklist Smp#: 13
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83412-A-8-A 10x
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:44:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.050	4.066	-0.016	0.909	323349	0.7154	4270	
2 BFS_A3B	519.00 > 113.00	4.137	4.154	-0.017	0.928	278307	0.5866	317	
3 BFS_B3	553.00 > 345.00	4.286	4.307	-0.021	0.961	666462	2.23	855	
4 BFS_A2B2	569.00 > 229.00	4.394	4.407	-0.013	0.986	857698	3.29	917	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.457	4.481	-0.024	0.879	64725	0.4322	86.4	447
5 BFS_A4B	585.00 > 113.00	4.476	4.490	-0.014	1.004	178666	0.2759	559	
7 BFS_AB3	619.00 > 229.00	4.645	4.660	-0.015	1.042	1290401	5.32	1456	
8 BFS_A3B2	635.00 > 113.00	4.746	4.772	-0.026	1.065	281393	0.6603	763	
9 BFS_B4	669.00 > 461.00	4.884	4.897	-0.013	1.096	287672	2.17	807	
10 BFS_A2B3	685.00 > 571.00	4.985	5.006	-0.021	1.118	14573	1.10	558	M
* 11 13C2 PFOA	415.00 > 370.00	5.073	5.085	-0.012		4627143	5.00	2742	M

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-26.d

Injection Date: 01-Jun-2022 17:04:59

Instrument ID: 30733

Lims ID: 410-83412-A-8-A

Lab Sample ID: 410-83412-8

Client ID: MW-111S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 46

Worklist Smp#: 13

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

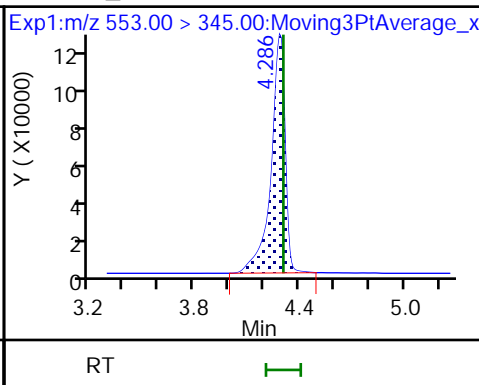
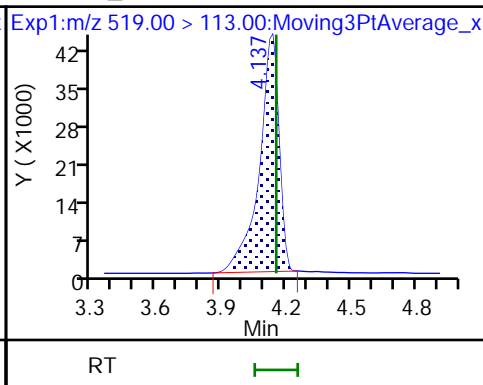
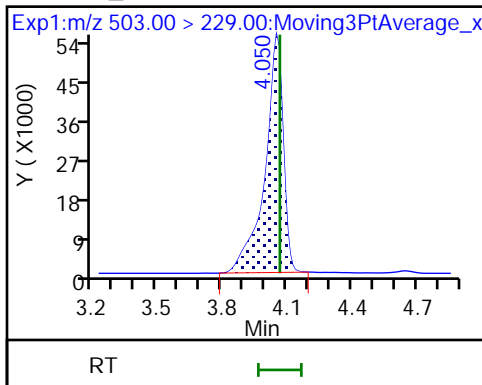
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

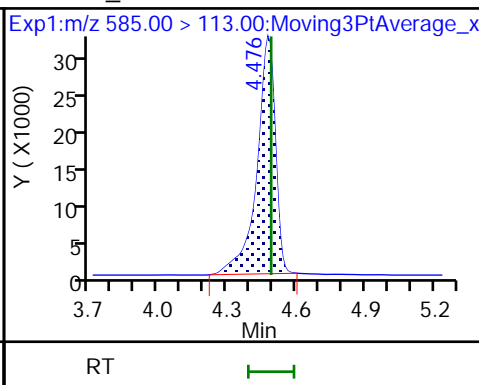
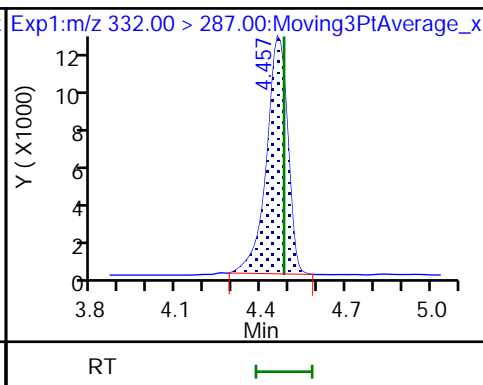
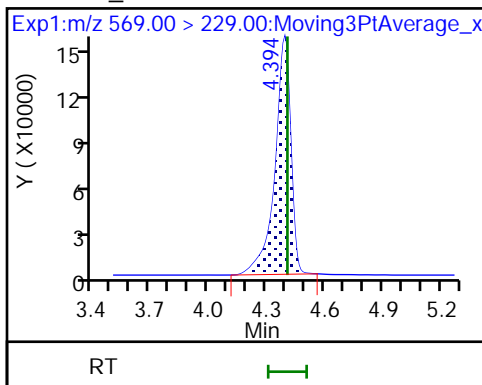
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

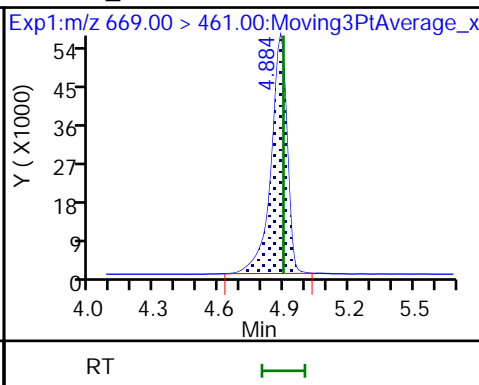
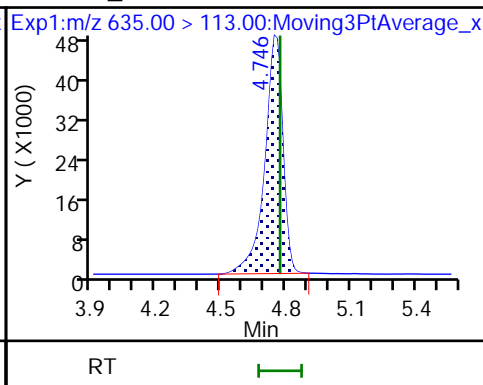
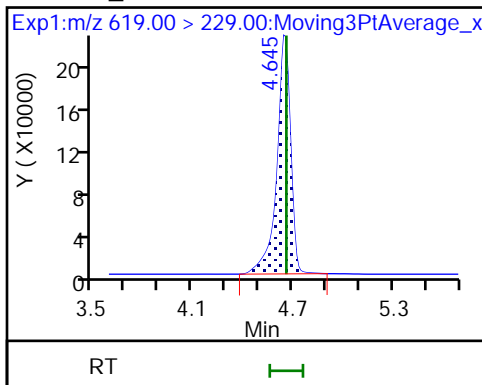
5 BFS_A4B



7 BFS_AB3

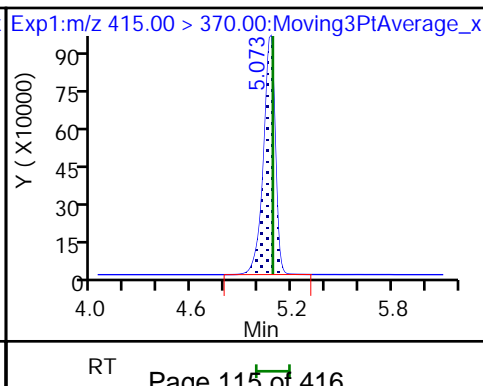
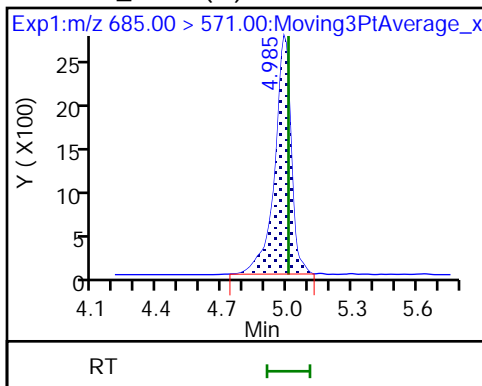
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

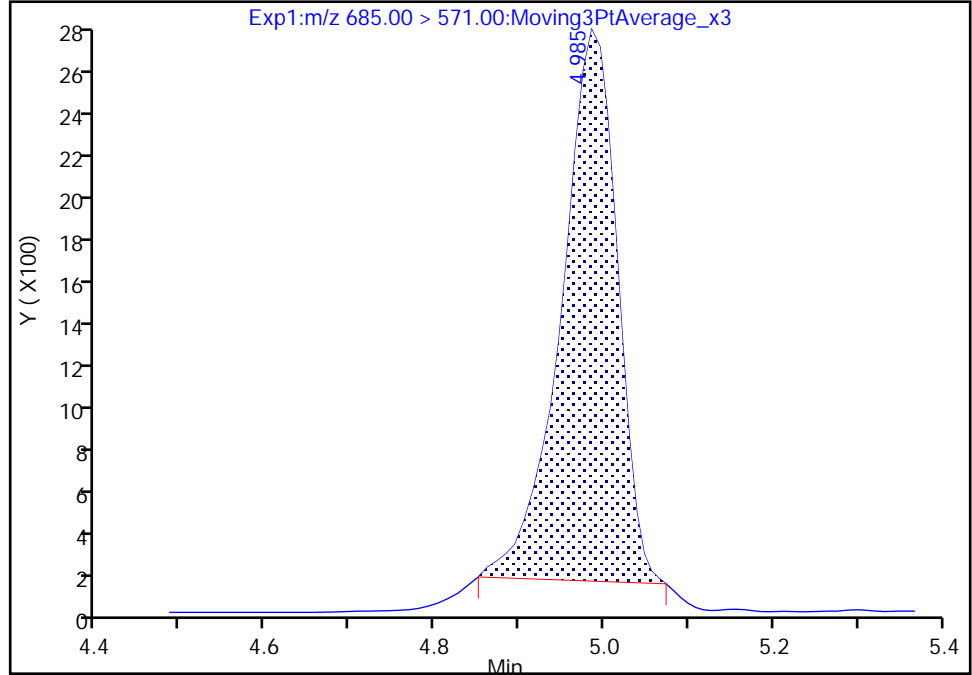
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-26.d
Injection Date: 01-Jun-2022 17:04:59 Instrument ID: 30733
Lims ID: 410-83412-A-8-A Lab Sample ID: 410-83412-8
Client ID: MW-111S-PDB
Operator ID: US19_USR_INS20260 ALS Bottle#: 46 Worklist Smp#: 13
Injection Vol: 15.0 ul Dil. Factor: 10.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

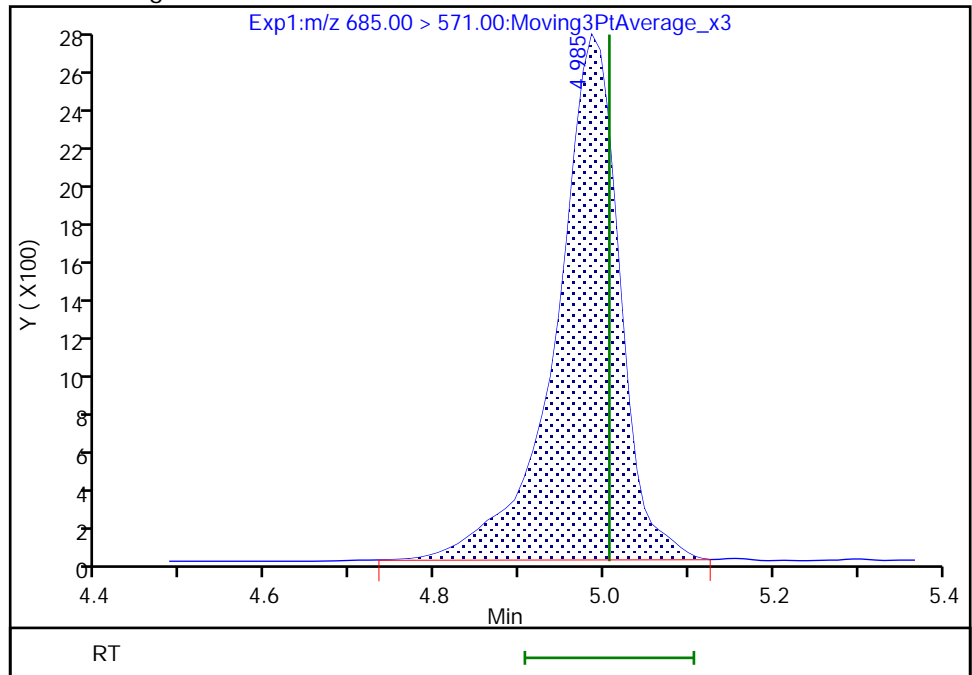
RT: 4.99
Area: 12149
Amount: 0.920852
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 14573
Amount: 1.104583
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D-PDB Lab Sample ID: 410-83412-9

Matrix: Water Lab File ID: 22JUN01BFS-28.d

Analysis Method: BFS Date Collected: 05/09/2022 10:30

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 285.3(mL) Date Analyzed: 06/01/2022 17:30

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	33	^2 cn	1.2	0.35
STL02887	BFS_A2B3	28	cn	0.96	0.35
STL02880	BFS_A3B	2.9	cn	0.53	0.18
STL02885	BFS_A3B2	15	*+ cn	0.70	0.18
STL02883	BFS_A4B	3.3	cn	0.35	0.18
STL02879	BFS_AB2	7.5	cn	0.53	0.070
STL02884	BFS_AB3	130	^2 cn	1.3	0.35
STL02881	BFS_B3	27	^2 cn	0.61	0.26
STL02886	BFS_B4	70	cn	0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-28.d
 Lims ID: 410-83412-A-9-A
 Client ID: MW-111D-PDB
 Sample Type: Client
 Inject. Date: 01-Jun-2022 17:30:13 ALS Bottle#: 23 Worklist Smp#: 15
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-9-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:44:40
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.057	4.066	-0.009	0.909	781534	2.15	9119	
2 BFS_A3B	519.00 > 113.00	4.132	4.154	-0.022	0.926	312908	0.8187	373	
3 BFS_B3	553.00 > 345.00	4.283	4.307	-0.024	0.960	1824849	7.59	2492	
4 BFS_A2B2	569.00 > 229.00	4.392	4.407	-0.015	0.984	1978211	9.43	2392	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.463	4.481	-0.018	0.881	521379	3.63	72.6	2723
5 BFS_A4B	585.00 > 113.00	4.482	4.490	-0.008	1.004	492580	0.9444	1375	
7 BFS_AB3	619.00 > 229.00	4.649	4.660	-0.011	1.042	7089502	36.7	8594	
8 BFS_A3B2	635.00 > 113.00	4.748	4.772	-0.024	1.064	1432258	4.17	2238	
9 BFS_B4	669.00 > 461.00	4.885	4.897	-0.012	1.094	2144073	20.1	3349	
10 BFS_A2B3	685.00 > 571.00	4.986	5.006	-0.020	1.117	84572	7.96	1245	
* 11 13C2 PFOA	415.00 > 370.00	5.066	5.085	-0.019		4437116	5.00	3657	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-28.d

Injection Date: 01-Jun-2022 17:30:13

Instrument ID: 30733

Lims ID: 410-83412-A-9-A

Lab Sample ID: 410-83412-9

Client ID: MW-111D-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 23

Worklist Smp#: 15

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

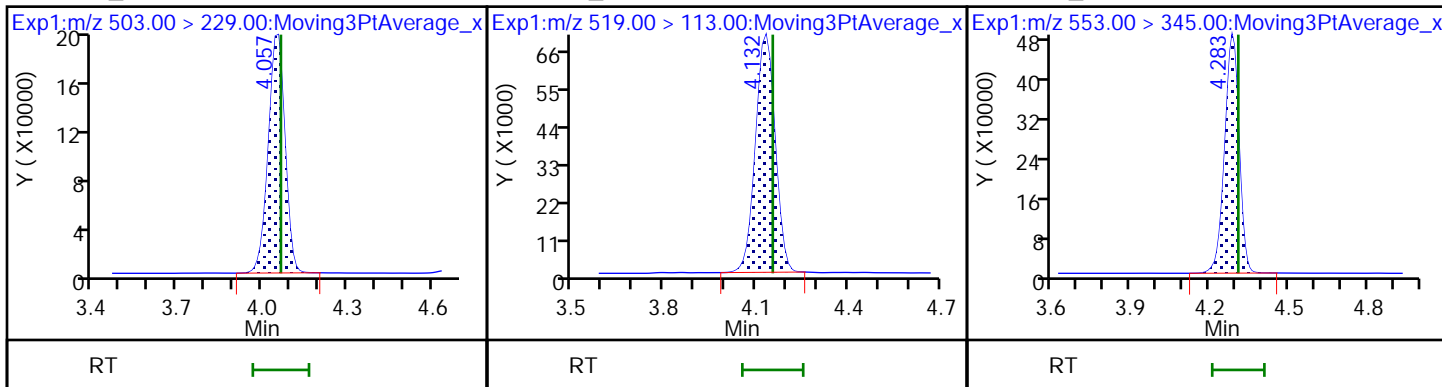
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

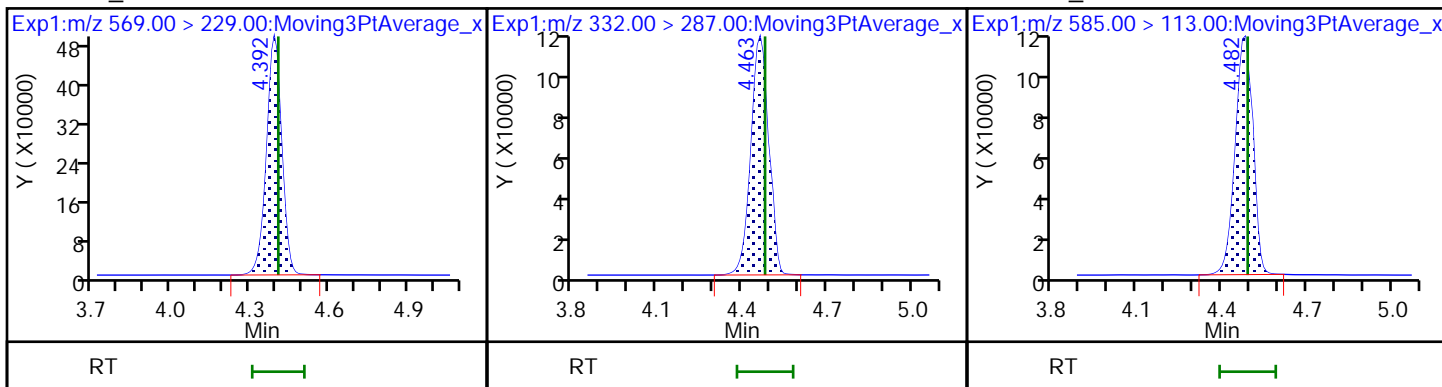
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

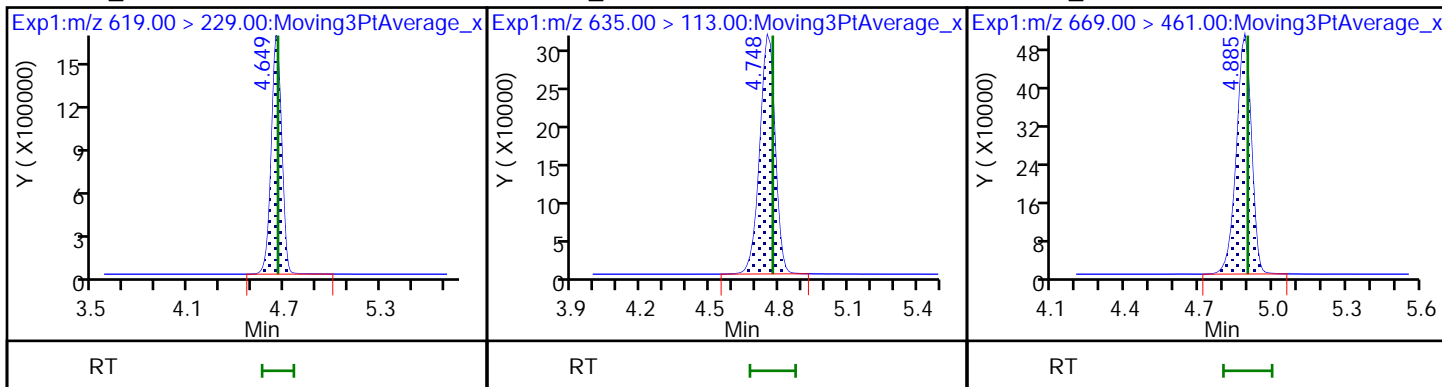
5 BFS_A4B



7 BFS_AB3

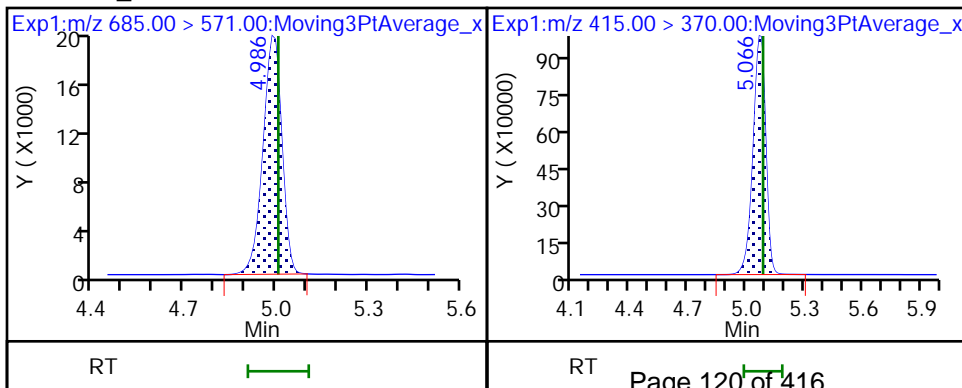
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-101S Lab Sample ID: 410-83412-10

Matrix: Water Lab File ID: 22JUN01BFS-29.d

Analysis Method: BFS Date Collected: 05/10/2022 10:40

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 284.7(mL) Date Analyzed: 06/01/2022 17:42

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1.5	^2 cn	1.2	0.35
STL02887	BFS_A2B3	ND	cn	0.97	0.35
STL02880	BFS_A3B	0.72	cn	0.53	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.70	0.18
STL02883	BFS_A4B	ND	cn	0.35	0.18
STL02879	BFS_AB2	2.2	cn	0.53	0.070
STL02884	BFS_AB3	1.1	J ^2 cn	1.3	0.35
STL02881	BFS_B3	2.3	^2 cn	0.61	0.26
STL02886	BFS_B4	ND	cn	0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-29.d
 Lims ID: 410-83412-A-10-A
 Client ID: MW-101S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 17:42:50 ALS Bottle#: 24 Worklist Smp#: 16
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-10-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:44:53
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.063	4.066	-0.003	0.907	215456	0.6335	3940	
2 BFS_A3B	519.00 > 113.00	4.139	4.154	-0.015	0.924	72960	0.2044	149	
3 BFS_B3	553.00 > 345.00	4.288	4.307	-0.019	0.958	144830	0.6437	802	
4 BFS_A2B2	569.00 > 229.00	4.396	4.407	-0.011	0.982	84209	0.4282	318	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.478	4.481	-0.003	0.882	487035	3.23	64.6	2286
7 BFS_AB3	619.00 > 229.00	4.657	4.660	-0.003	1.040	56256	0.3077	178	
* 11 13C2 PFOA	415.00 > 370.00	5.075	5.085	-0.010		4661257	5.00	3464	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-29.d

Injection Date: 01-Jun-2022 17:42:50

Instrument ID: 30733

Lims ID: 410-83412-A-10-A

Lab Sample ID: 410-83412-10

Client ID: MW-101S

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

Worklist Smp#: 16

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

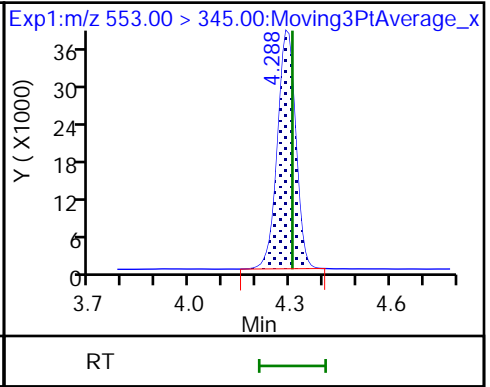
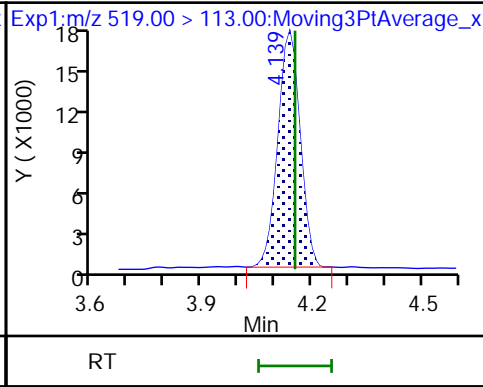
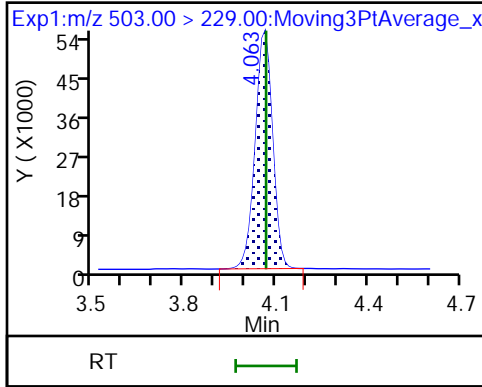
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

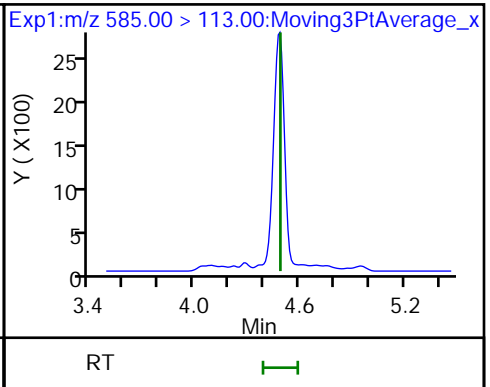
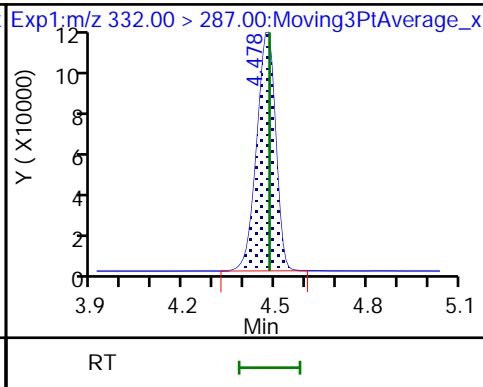
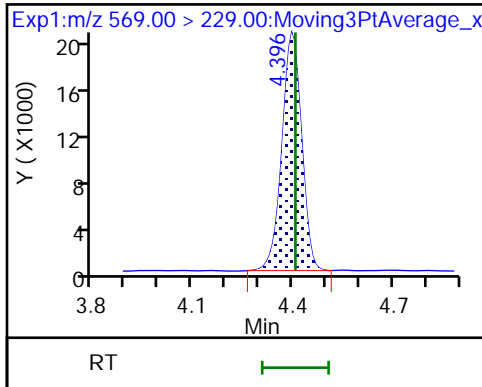
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

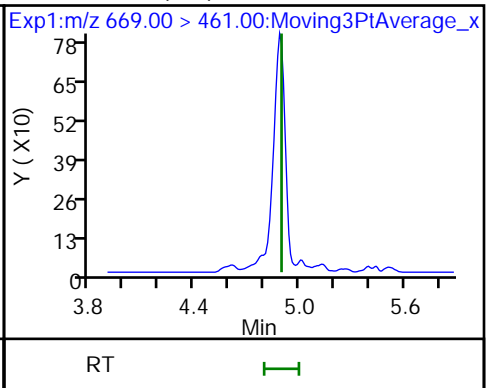
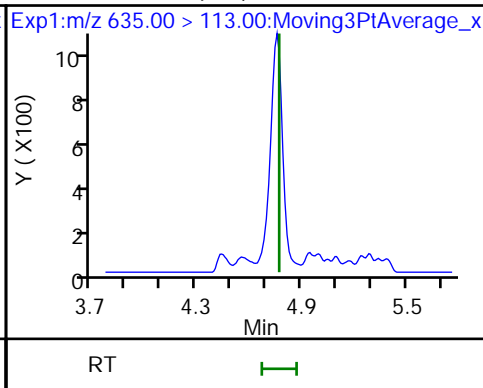
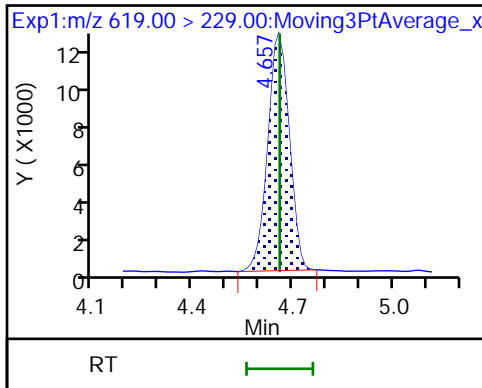
5 BFS_A4B (ND)



7 BFS_AB3

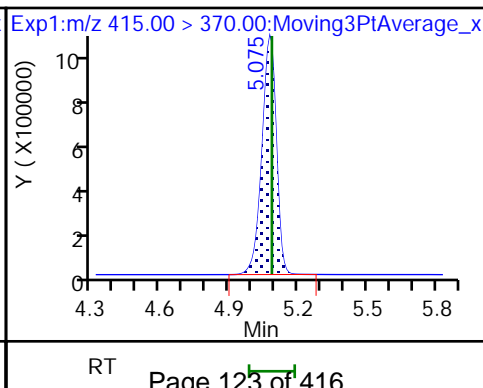
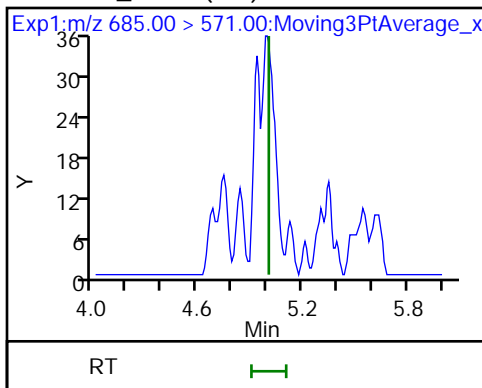
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83412-1

SDG No.:

Client Sample ID: MW-101D

Lab Sample ID: 410-83412-11

Matrix: Water

Lab File ID: 22JUN01BFS-30.d

Analysis Method: BFS

Date Collected: 05/10/2022 13:45

Extraction Method: 3535

Date Extracted: 05/17/2022 09:01

Sample wt/vol: 284.9(mL)

Date Analyzed: 06/01/2022 17:55

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1.2	^2 cn	1.2	0.35
STL02887	BFS_A2B3	ND	cn	0.97	0.35
STL02880	BFS_A3B	0.64	cn	0.53	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.70	0.18
STL02883	BFS_A4B	ND	cn	0.35	0.18
STL02879	BFS_AB2	5.0	cn	0.53	0.070
STL02884	BFS_AB3	1.3	^2 cn	1.3	0.35
STL02881	BFS_B3	1.6	^2 cn	0.61	0.26
STL02886	BFS_B4	ND	cn	0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	58	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-30.d
 Lims ID: 410-83412-A-11-A
 Client ID: MW-101D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 17:55:27 ALS Bottle#: 25 Worklist Smp#: 17
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-11-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:45:18
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.061	4.066	-0.005	0.908	389556	1.42	6562	
2 BFS_A3B	519.00 > 113.00	4.137	4.154	-0.017	0.926	52393	0.1821	83.2	
3 BFS_B3	553.00 > 345.00	4.289	4.307	-0.018	0.959	83698	0.4614	462	
4 BFS_A2B2	569.00 > 229.00	4.397	4.407	-0.010	0.984	54913	0.3464	124	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.470	4.481	-0.011	0.881	392609	2.89	57.8	1508
7 BFS_AB3	619.00 > 229.00	4.658	4.660	-0.002	1.042	55181	0.3744	100	
9 BFS_B4	669.00 > 461.00	4.885	4.897	-0.012	1.093	7576	0.0941	104	M
* 11 13C2 PFOA	415.00 > 370.00	5.075	5.085	-0.010		4199560	5.00	3154	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-30.d

Injection Date: 01-Jun-2022 17:55:27

Instrument ID: 30733

Lims ID: 410-83412-A-11-A

Lab Sample ID: 410-83412-11

Client ID: MW-101D

Operator ID: US19_USR_INS20260

ALS Bottle#: 25

Worklist Smp#: 17

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

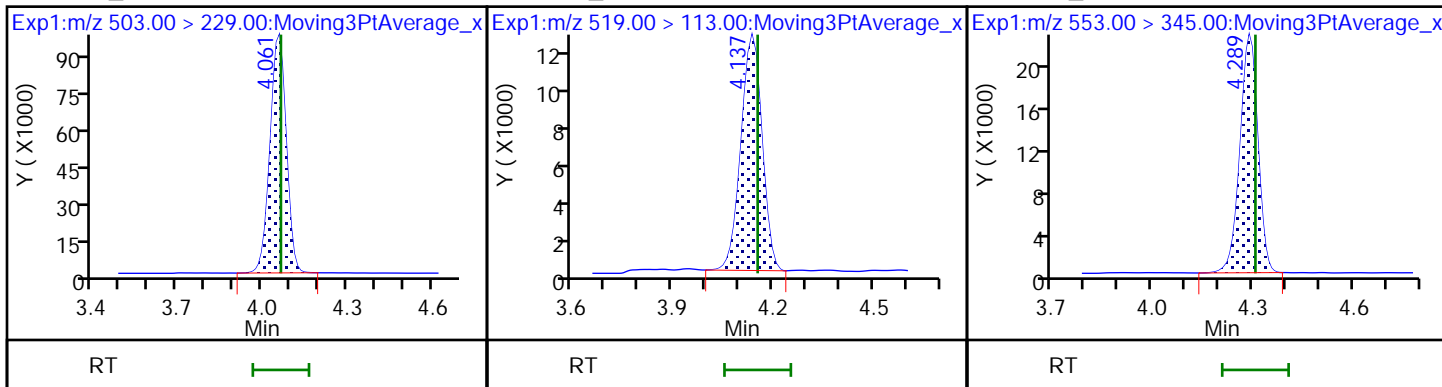
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

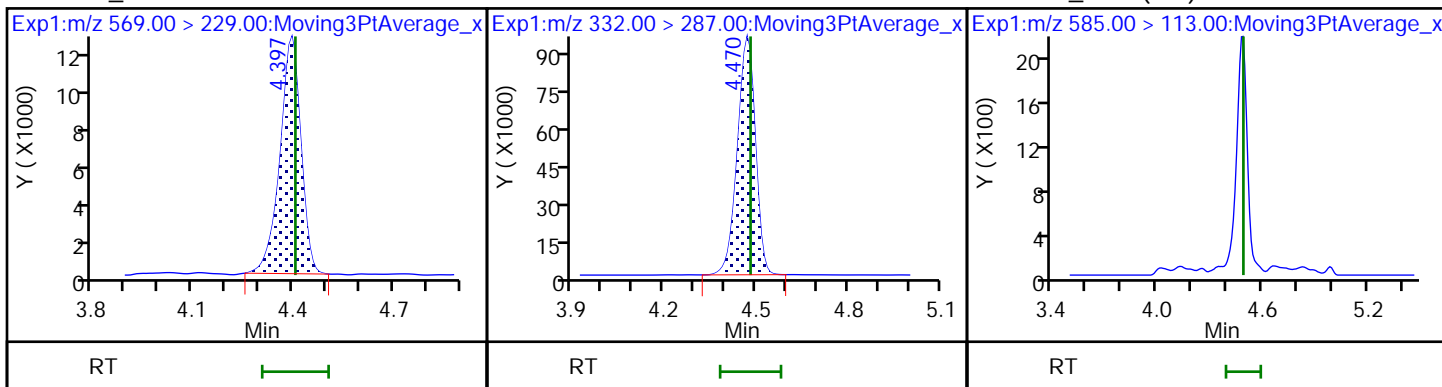
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

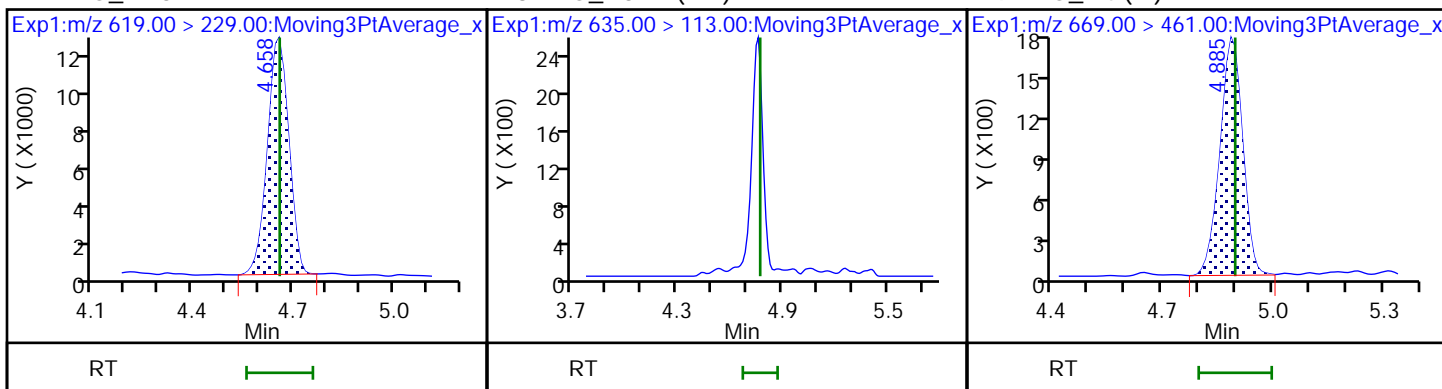
5 BFS_A4B (ND)



7 BFS_AB3

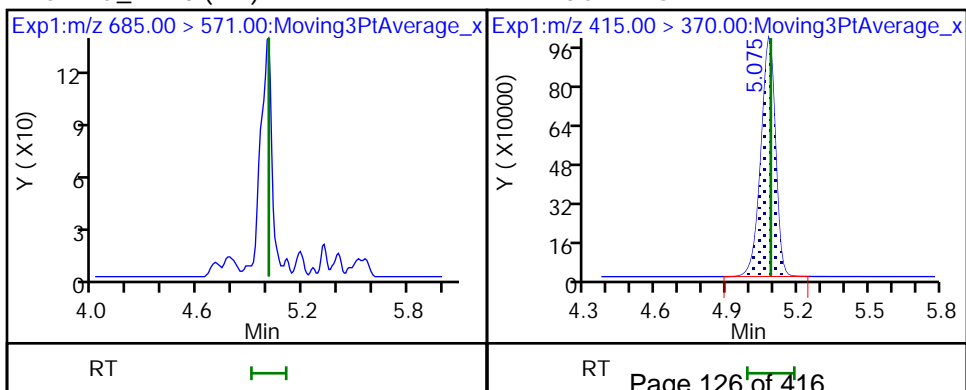
8 BFS_A3B2 (ND)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

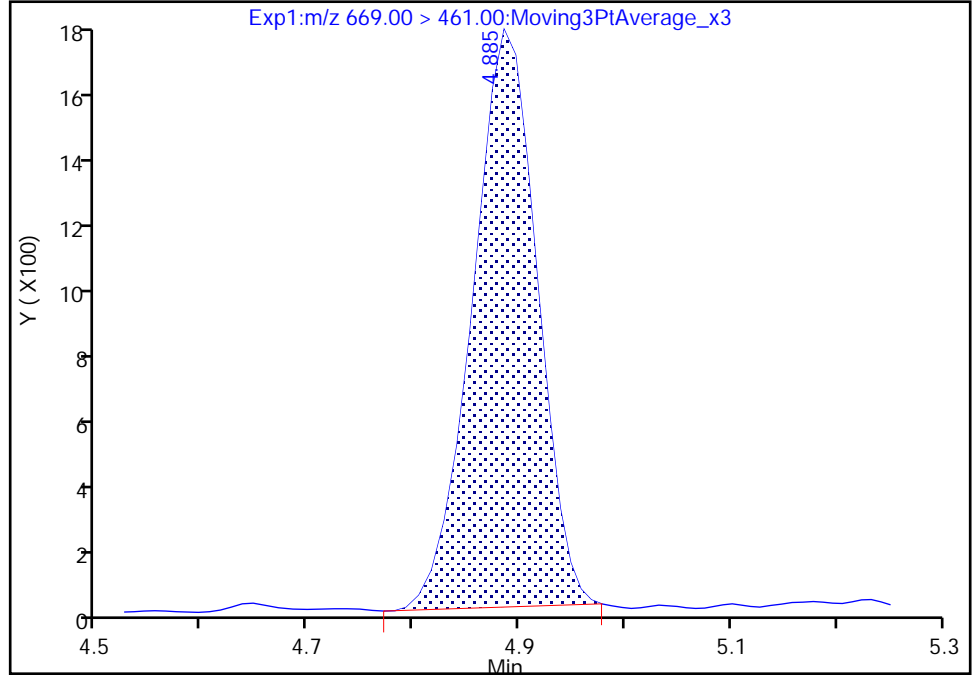
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Injection Date: 01-Jun-2022 17:55:27 Instrument ID: 30733
Lims ID: 410-83412-A-11-A Lab Sample ID: 410-83412-11
Client ID: MW-101D
Operator ID: US19_USR_INS20260 ALS Bottle#: 25 Worklist Smp#: 17
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

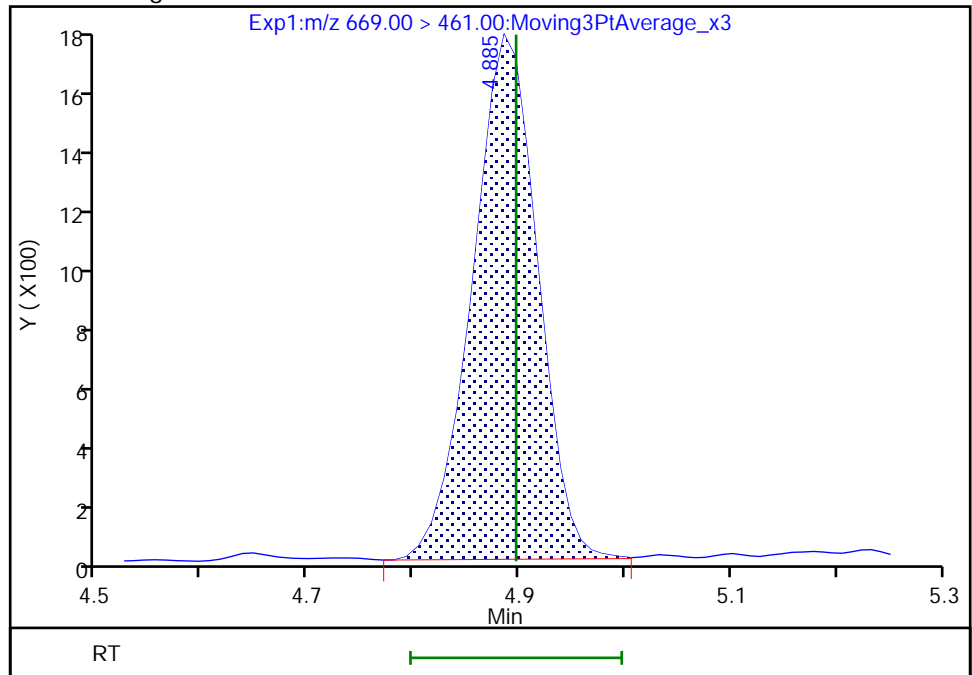
RT: 4.89
Area: 7451
Amount: 0.092555
Amount Units: ng/ml

Processing Integration Results



RT: 4.89
Area: 7576
Amount: 0.094108
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:45:14
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_05102022 Lab Sample ID: 410-83412-12

Matrix: Water Lab File ID: 22JUN01BFS-31.d

Analysis Method: BFS Date Collected: 05/10/2022 11:18

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 276.4(mL) Date Analyzed: 06/01/2022 18:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.3	0.36
STL02887	BFS_A2B3	ND	cn	0.99	0.36
STL02880	BFS_A3B	ND	cn	0.54	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.72	0.18
STL02883	BFS_A4B	ND	cn	0.36	0.18
STL02879	BFS_AB2	ND	cn	0.54	0.072
STL02884	BFS_AB3	ND	cn	1.4	0.36
STL02881	BFS_B3	ND	cn	0.63	0.27
STL02886	BFS_B4	ND	cn	0.99	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-31.d
 Lims ID: 410-83412-A-12-A
 Client ID: EB_05102022
 Sample Type: Client
 Inject. Date: 01-Jun-2022 18:08:04 ALS Bottle#: 26 Worklist Smp#: 18
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-A-12-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:45:58
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.473 4.481 -0.008 0.881 716483 4.23 84.6 3281
 * 11 13C2 PFOA
 415.00 > 370.00 5.078 5.085 -0.007 5234177 5.00 3088

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-31.d

Injection Date: 01-Jun-2022 18:08:04

Instrument ID: 30733

Lims ID: 410-83412-A-12-A

Lab Sample ID: 410-83412-12

Client ID: EB_05102022

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 18

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

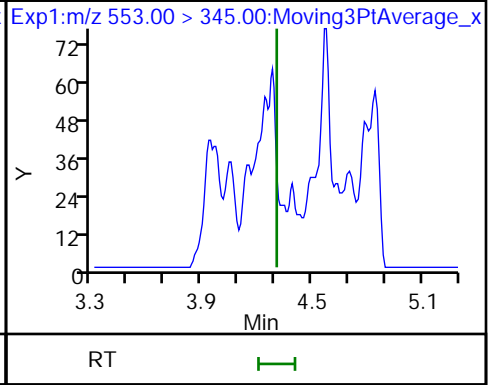
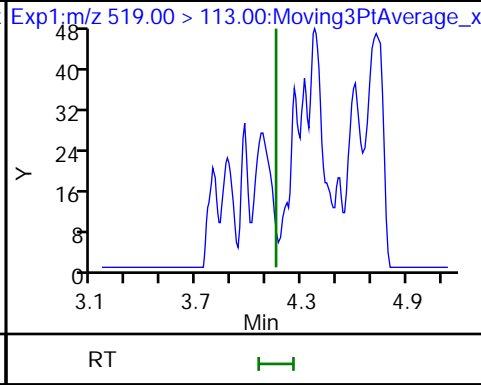
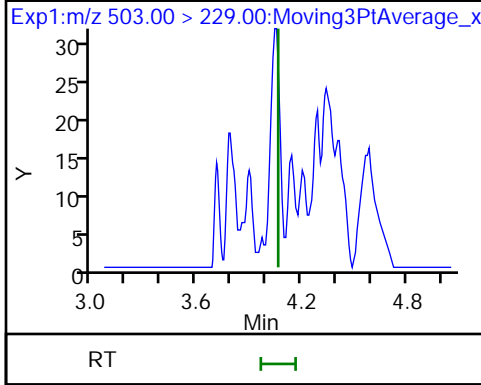
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

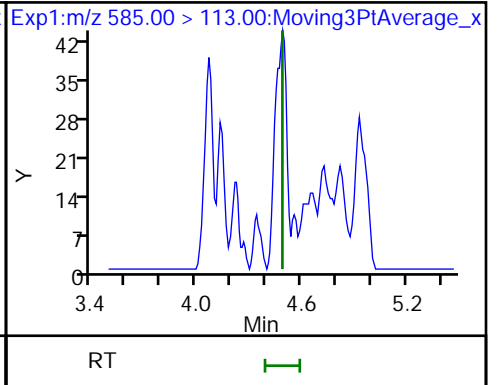
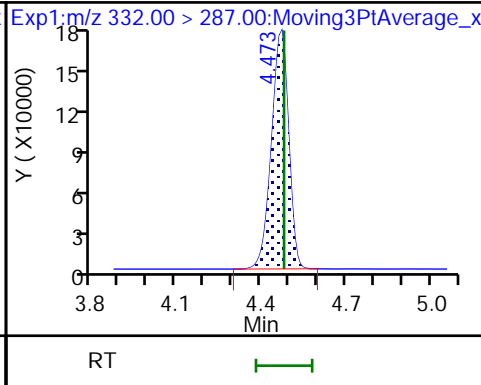
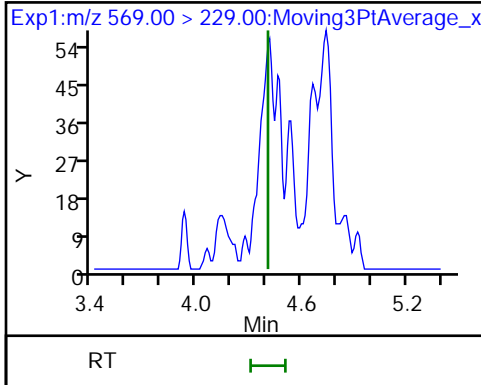
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

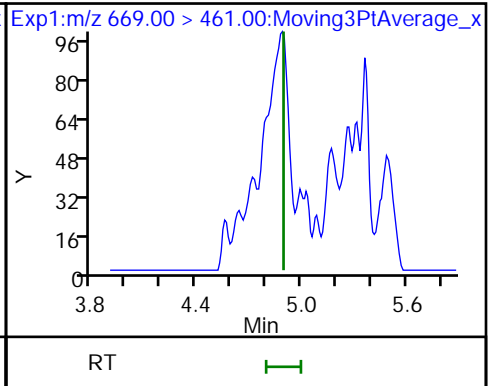
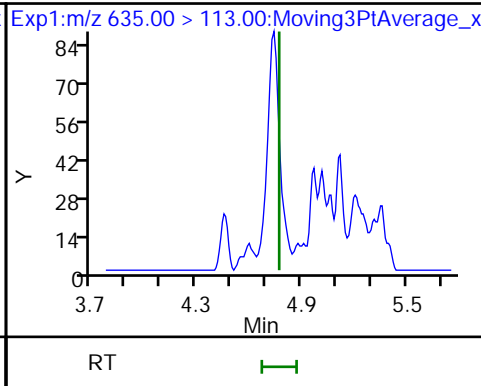
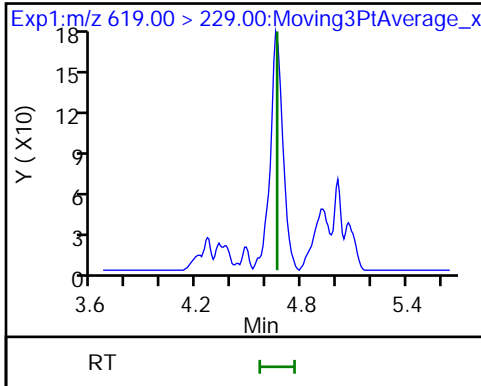
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

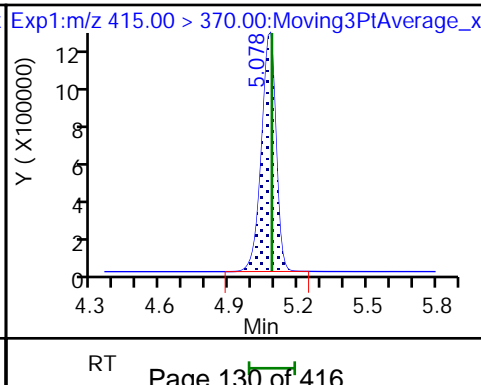
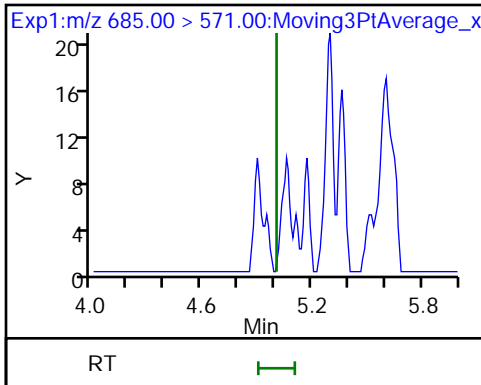
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47 Calibration End Date: 06/01/2022 13:42 Calibration ID: 39195

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260772/1	22JUN01BFS-01.d
Level 2	IC 410-260772/2	22JUN01BFS-02.d
Level 3	IC 410-260772/3	22JUN01BFS-03.d
Level 4	IC 410-260772/4	22JUN01BFS-04.d
Level 5	ICISAV 410-260772/5	22JUN01BFS-05.d
Level 6	IC 410-260772/6	22JUN01BFS-06.d
Level 7	IC 410-260772/7	22JUN01BFS-07.d
Level 8	IC 410-260772/8	22JUN01BFS-08.d
Level 9	IC 410-260772/9	22JUN01BFS-09.d
Level 10	IC 410-260772/10	22JUN01BFS-10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
BFS_AB2	2.9614 3.2524	3.2741 3.2977	3.1857 3.4599	3.2031 3.6251	3.3438 3.4833	LID1 F		3.491 4			7.6			0.9990		0.9900	
BFS_A3B	3.1101 3.4047	3.2980 3.4825	3.2380 3.5786	3.4417 3.7645	3.5807 3.6804	LID1 F		3.665 1			8.1			0.9990		0.9900	
BFS_B3	2.3490 2.3497	2.2682 2.2473	2.1719 2.2135	2.2568 2.2583	2.4863 2.0311	Q2ID F		2.310 6	-0.000837		4.0			0.9980		0.9900	
BFS_A2B2	1.9247 2.0512	1.9563 1.9678	1.9221 1.8927	2.0371 1.8158	2.1384 1.3668	Q2ID F		2.019 3	-0.000903		4.0			0.9980		0.9900	
BFS_A4B	4.8448 5.3318	5.1278 5.2993	5.0067 5.1640	5.2775 5.3961	5.6672 4.7497	LID1 F		5.002 1			6.7			0.9960		0.9900	
BFS_AB3	1.7991 1.8024	1.9236 1.7372	1.8753 1.7139	1.8771 1.7274	2.0729 1.4312	Q2ID F		1.877 4	-0.000612		5.1			0.9970		0.9900	
BFS_A3B2	3.1682 3.4080	3.4259 3.3861	3.4182 3.4063	3.5004 3.4223	3.8239 3.1890	LID1 F		3.292 3			6.7			0.9990		0.9900	
BFS_B4	1.0790 1.0919	1.0980 1.0310	1.0599 1.0737	1.0759 1.0664	1.1469 0.9920	LID1 F		1.025 2			6.2			0.9980		0.9900	
BFS_A2B3	++++ 0.0920	++++ 0.1037	0.1052 0.0952	0.1073 0.1059	0.0921 0.1021	LID1 F		0.101 9			6.4			0.9990		0.9900	
13C3 HFPO-DA	0.1716 0.1594	0.1672 0.1615	0.1683 0.1633	0.1674 0.1480	0.1652 0.1465	Ave		0.161 8			5.2						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47 Calibration End Date: 06/01/2022 13:42 Calibration ID: 39195

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260772/1	22JUN01BFS-01.d
Level 2	IC 410-260772/2	22JUN01BFS-02.d
Level 3	IC 410-260772/3	22JUN01BFS-03.d
Level 4	IC 410-260772/4	22JUN01BFS-04.d
Level 5	ICISAV 410-260772/5	22JUN01BFS-05.d
Level 6	IC 410-260772/6	22JUN01BFS-06.d
Level 7	IC 410-260772/7	22JUN01BFS-07.d
Level 8	IC 410-260772/8	22JUN01BFS-08.d
Level 9	IC 410-260772/9	22JUN01BFS-09.d
Level 10	IC 410-260772/10	22JUN01BFS-10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		LID1 F	20636	66148	171038	427530	846634	0.0445	0.134	0.356	0.891	1.78
			2034419	4544165	9020531	16231123	41799671	4.45	8.91	17.8	35.6	89.1
BFS_A3B		LID1 F	24222	74470	194295	513420	1013274	0.0498	0.149	0.398	0.995	1.99
			2380227	5363405	10427670	18838535	49360673	4.98	9.95	19.9	39.8	99.5
BFS_B3		Q2ID F	58253	163082	414974	1071990	2240373	0.158	0.475	1.27	3.17	6.34
			5230603	11020475	20537472	35984718	86742054	15.8	31.7	63.4	127	317
BFS_A2B2		Q2ID F	104538	308059	804323	2119206	4219900	0.347	1.04	2.78	6.94	13.9
			10000371	21133838	38460675	63365922	127841132	34.7	69.4	139	278	694
BFS_A4B		LID1 F	20852	63988	166026	435077	886268	0.0275	0.0825	0.220	0.550	1.10
			2059941	4510215	8315704	14922849	35203991	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID F	104717	324614	841017	2092742	4383968	0.372	1.12	2.98	7.44	14.9
			9417379	19995143	37324836	64603397	143461865	37.2	74.4	149	298	744
BFS_A3B2		LID1 F	32467	101785	269883	687074	1423801	0.0655	0.196	0.524	1.31	2.62
			3134979	6861654	13059911	22534422	56276374	6.55	13.1	26.2	52.4	131
BFS_B4		LID1 F	14596	43063	110459	278773	563680	0.0864	0.259	0.692	1.73	3.46
			1325888	2757789	5433932	9268536	23106837	8.64	17.3	34.6	69.2	173

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47 Calibration End Date: 06/01/2022 13:42 Calibration ID: 39195

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_A2B3		LID1 F	+++++	+++++	831	2106	3428	+++++	+++++	0.0524	0.131	0.262
			8465	21014	36499	69744	180193	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	782424	756152	753532	749330	710727	5.00	5.00	5.00	5.00	5.00
			702341	773603	731839	628418	673694	5.00	5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
 LID1F = Linear 1/Conc IsoDil FZ
 Q2IDF = Quadratic 1/conc^2 IsoDil FZ

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47 Calibration End Date: 06/01/2022 13:42 Calibration ID: 39195

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260772/1	22JUN01BFS-01.d
Level 2	IC 410-260772/2	22JUN01BFS-02.d
Level 3	IC 410-260772/3	22JUN01BFS-03.d
Level 4	IC 410-260772/4	22JUN01BFS-04.d
Level 5	ICISAV 410-260772/5	22JUN01BFS-05.d
Level 6	IC 410-260772/6	22JUN01BFS-06.d
Level 7	IC 410-260772/7	22JUN01BFS-07.d
Level 8	IC 410-260772/8	22JUN01BFS-08.d
Level 9	IC 410-260772/9	22JUN01BFS-09.d
Level 10	IC 410-260772/10	22JUN01BFS-10.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
BFS_AB2	-15.2	-6.2	-8.8	-8.3	-4.2	-6.8	50	30	30	30	30	30
	-5.5	-0.9	3.8	-0.2			30	30	30	30		
BFS_A3B	-15.1	-10.0	-11.7	-6.1	-2.3	-7.1	50	30	30	30	30	30
	-5.0	-2.4	2.7	0.4			30	30	30	30		
BFS_B3	1.7	-1.8	-6.0	-2.2	7.9	2.3	50	30	30	30	30	30
	-1.6	-2.0	2.6	-0.8			30	30	30	30		
BFS_A2B2	-4.7	-3.1	-4.7	1.2	6.6	3.2	50	30	30	30	30	30
	0.6	-0.1	3.1	-3.2			30	30	30	30		
BFS_A4B	-3.1	2.5	0.1	5.5	13.3	6.6	50	30	30	30	30	30
	5.9	3.2	7.9	-5.0			30	30	30	30		
BFS_AB3	-4.2	2.5	0.0	0.2	11.0	-2.8	50	30	30	30	30	30
	-5.3	-4.3	2.1	1.0			30	30	30	30		
BFS_A3B2	-3.8	4.1	3.8	6.3	16.1	3.5	50	30	30	30	30	30
	2.8	3.5	4.0	-3.1			30	30	30	30		
BFS_B4	5.2	7.1	3.4	4.9	11.9	6.5	50	30	30	30	30	30
	0.6	4.7	4.0	-3.2			30	30	30	30		
BFS_A2B3	+++++	+++++	3.3	5.3	-9.7	-9.7			50	30	30	30
	1.7	-6.6	3.9	0.2			30	30	30	30		
13C3 HFPO-DA		3.3	4.0	3.4	2.1	-1.5		30	30	30	30	30
	-0.2	0.9	-8.5	-9.5			30	30	30	30		

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Jun-2022 11:47:07 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:47 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:59:28

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.061	4.061	0.0	0.909	20636	0.0378	84.8	505	M
2 BFS_A3B									M
519.00 > 113.00	4.137	4.138	-0.001	0.926	24222	0.0422	84.9	117	M
3 BFS_B3									M
553.00 > 345.00	4.303	4.296	0.007	0.963	58253	0.1611	102	143	M
4 BFS_A2B2									
569.00 > 229.00	4.403	4.397	0.006	0.986	104538	0.3309	95.3	315	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.467	4.468	-0.001	0.880	782424	5.30	106	1993	
5 BFS_A4B									M
585.00 > 113.00	4.485	4.484	0.001	1.004	20852	0.0266	96.9	180	M
7 BFS_AB3									M
619.00 > 229.00	4.656	4.655	0.001	1.042	104717	0.3565	95.8	374	M
8 BFS_A3B2									M
635.00 > 113.00	4.758	4.758	0.0	1.065	32467	0.0630	96.2	243	M
9 BFS_B4									M
669.00 > 461.00	4.895	4.888	0.007	1.096	14596	0.0910	105	72.4	M
* 11 13C2 PFOA									
415.00 > 370.00	5.074	5.074	0.0		4560566	5.00		2771	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d

Injection Date: 01-Jun-2022 11:47:07

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

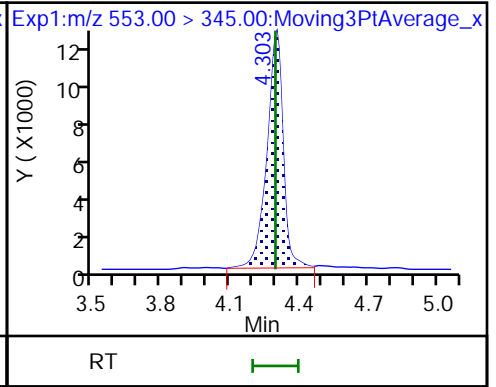
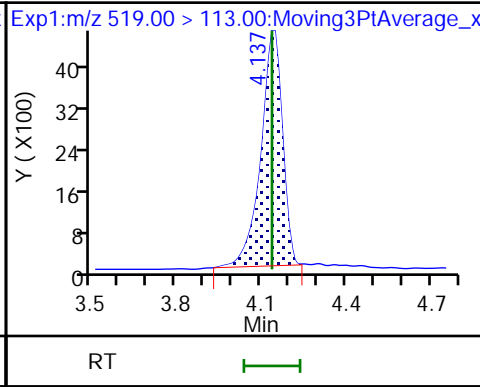
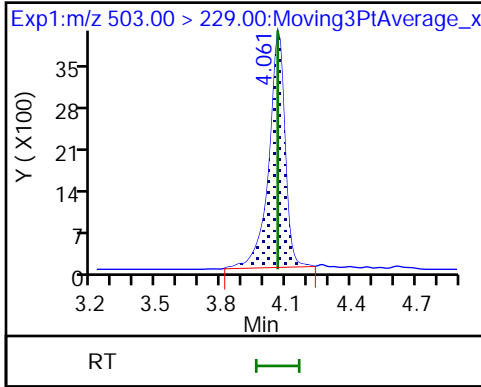
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

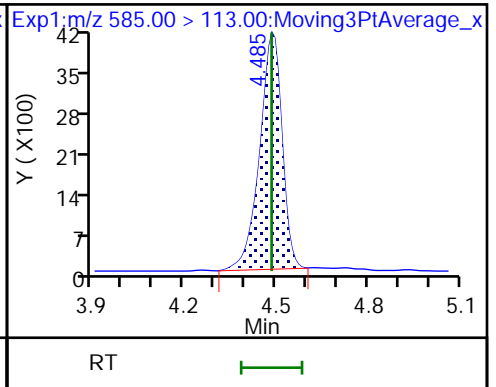
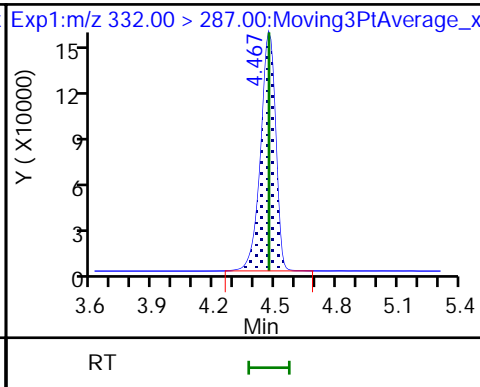
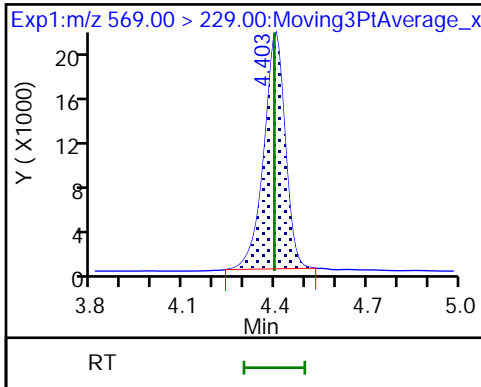
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

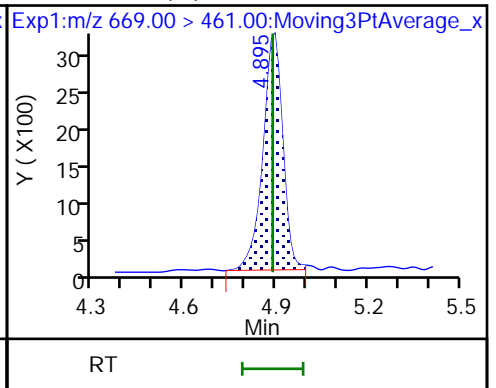
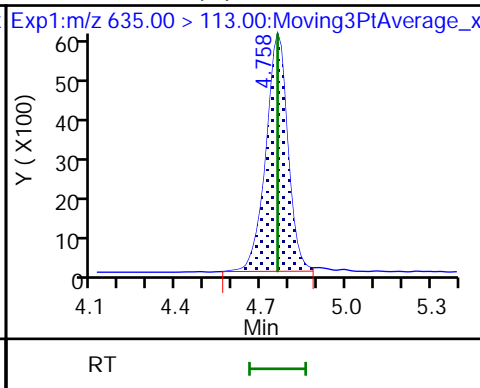
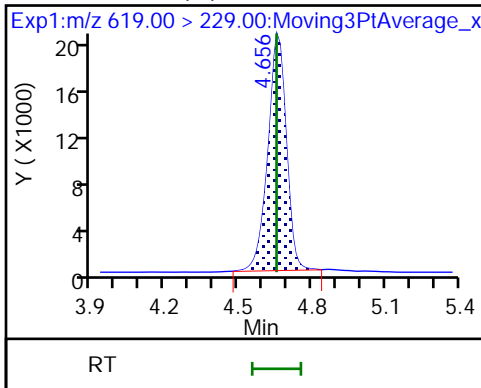
5 BFS_A4B (M)



7 BFS_AB3 (M)

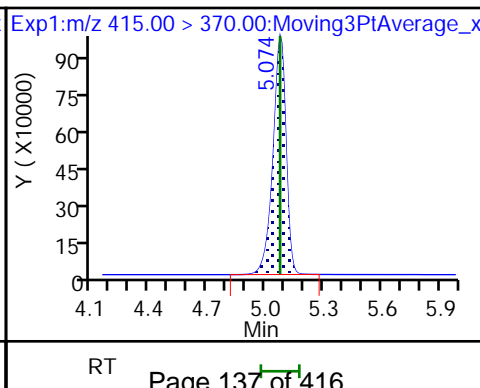
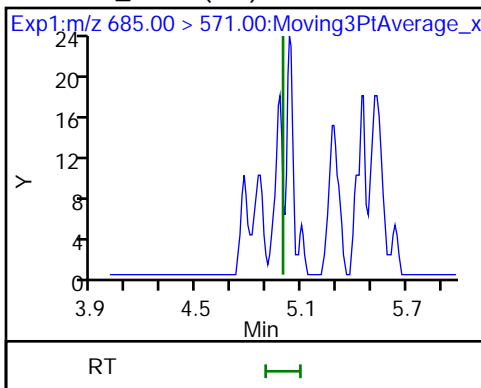
8 BFS_A3B2 (M)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

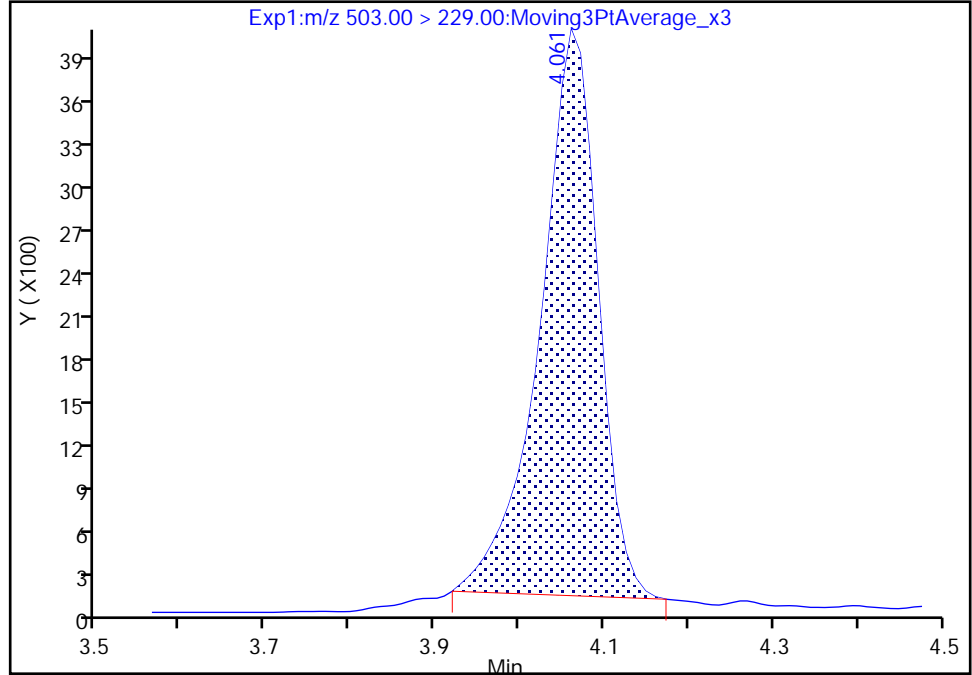
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Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

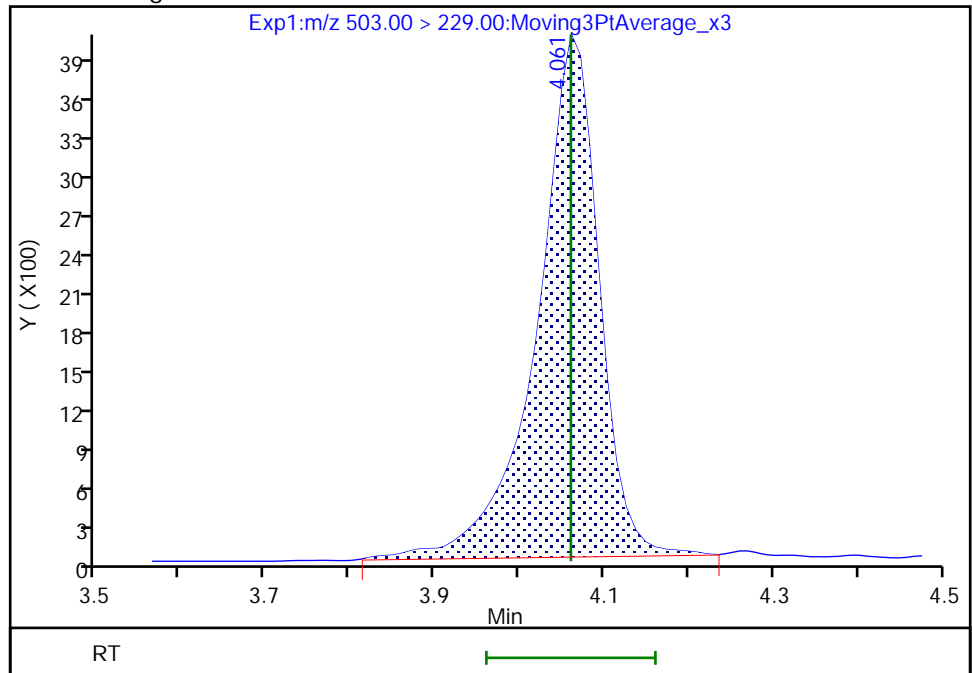
RT: 4.06
Area: 18804
Amount: 0.036530
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 20636
Amount: 0.037770
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:58:52
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

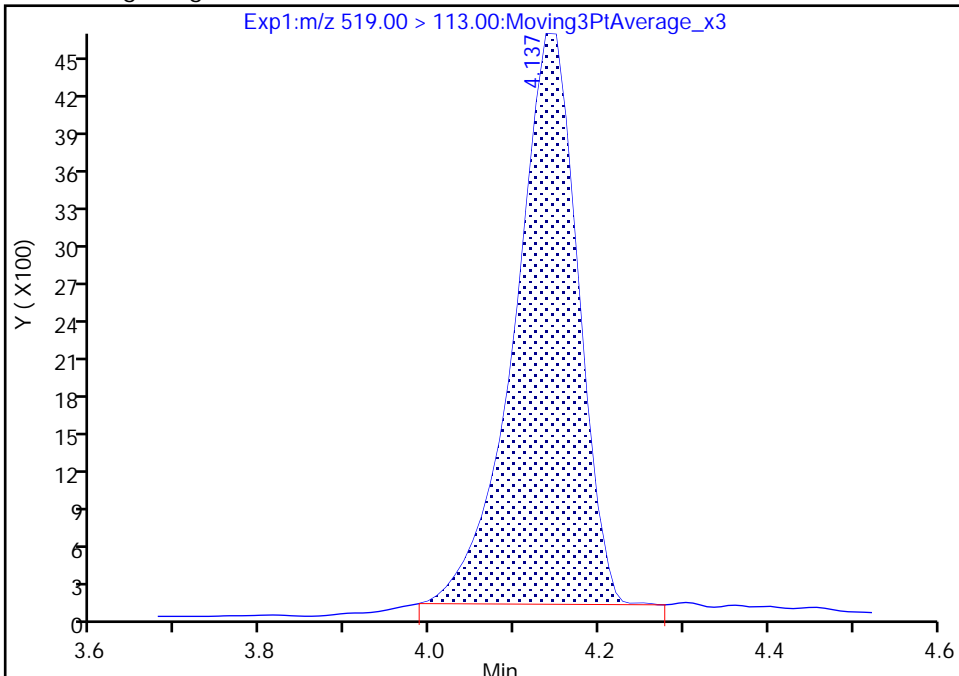
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

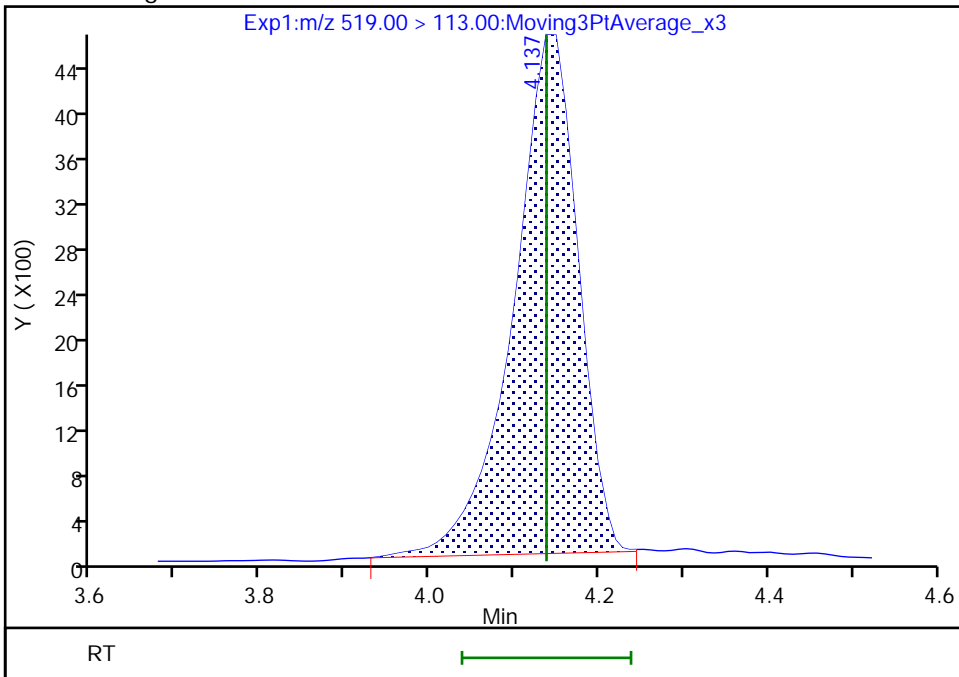
RT: 4.14
Area: 23609
Amount: 0.043590
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 24222
Amount: 0.042233
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:58:57
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

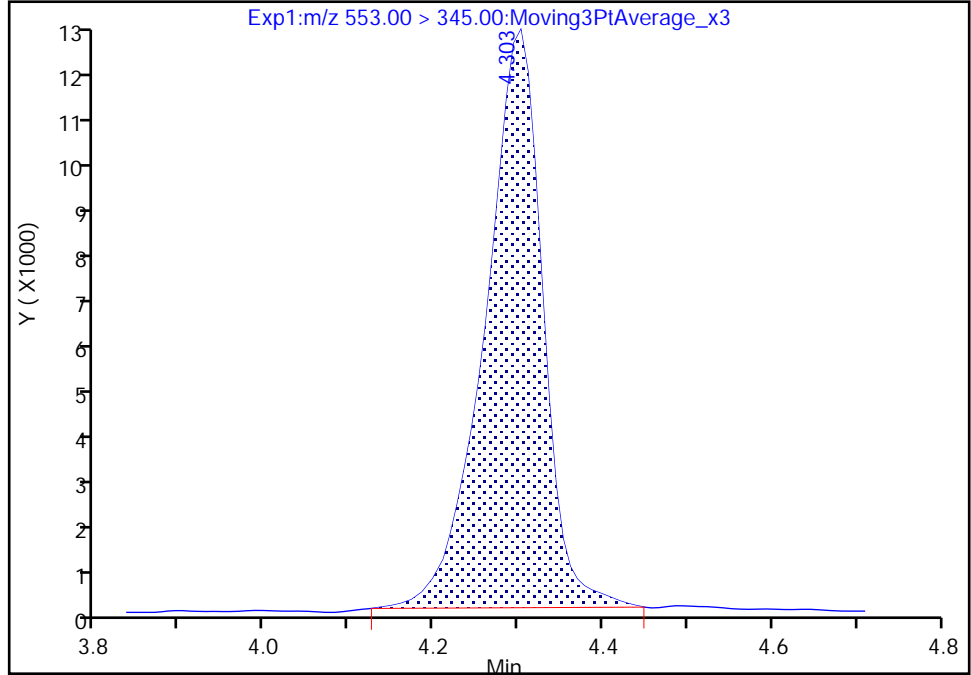
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

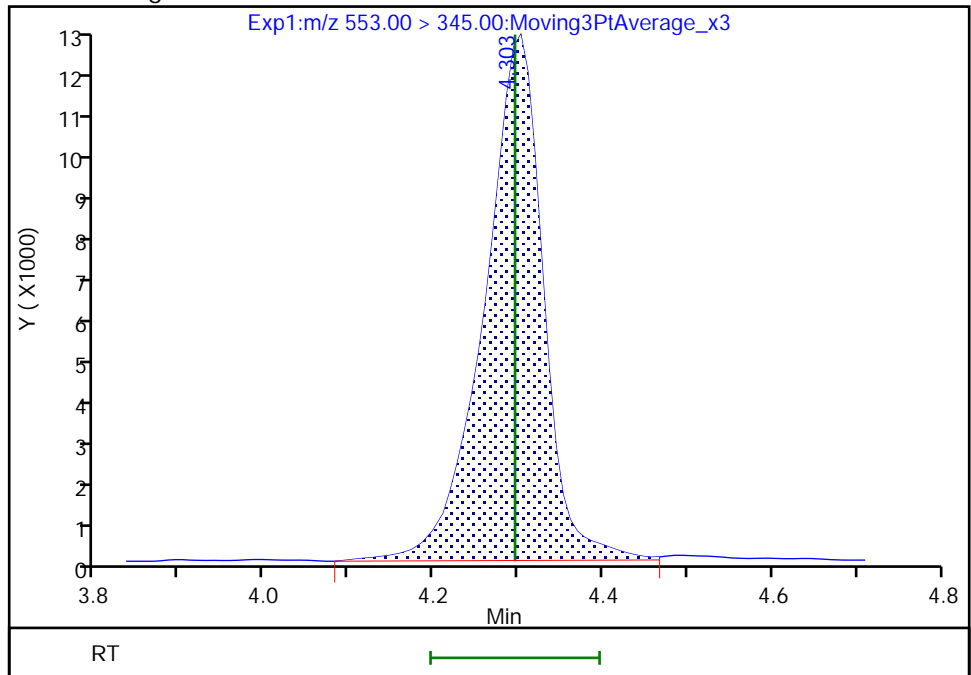
RT: 4.30
Area: 56557
Amount: 0.156337
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 58253
Amount: 0.161121
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:02
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

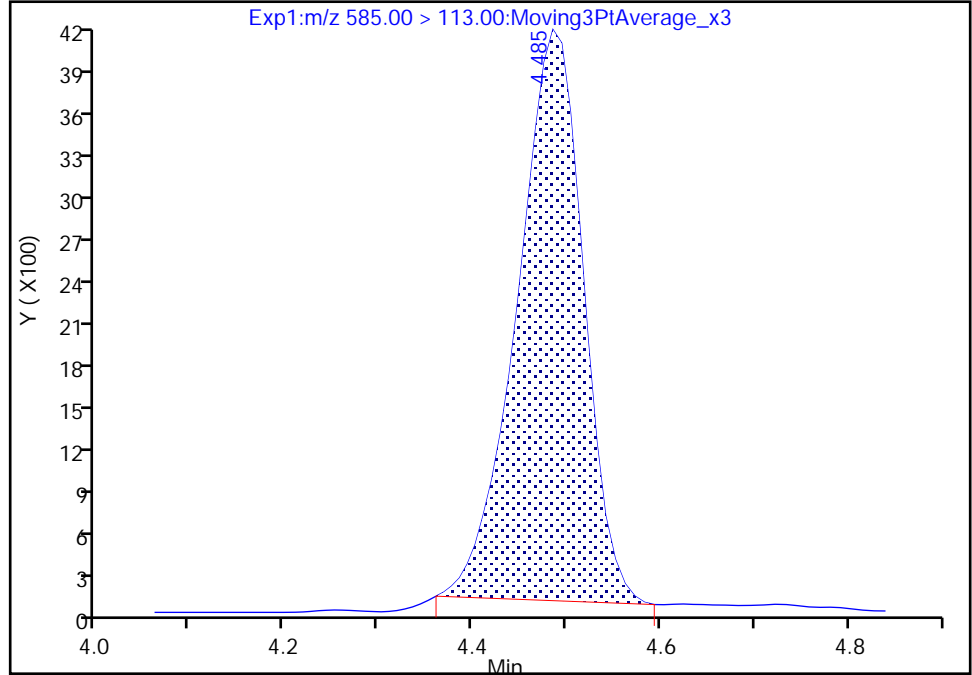
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

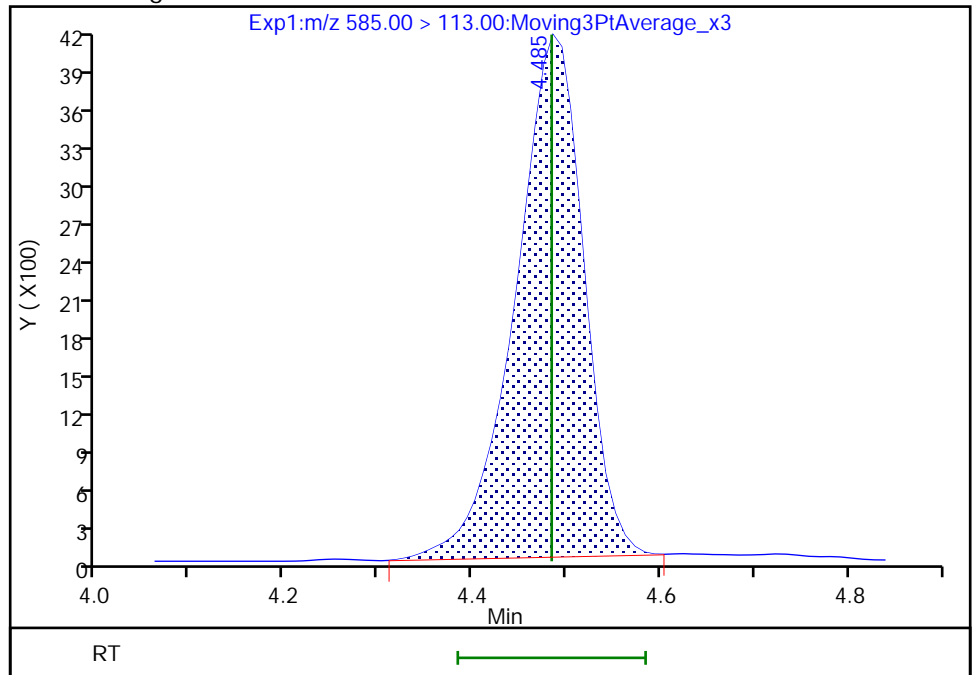
RT: 4.49
Area: 19960
Amount: 0.023728
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 20852
Amount: 0.026639
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:08
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

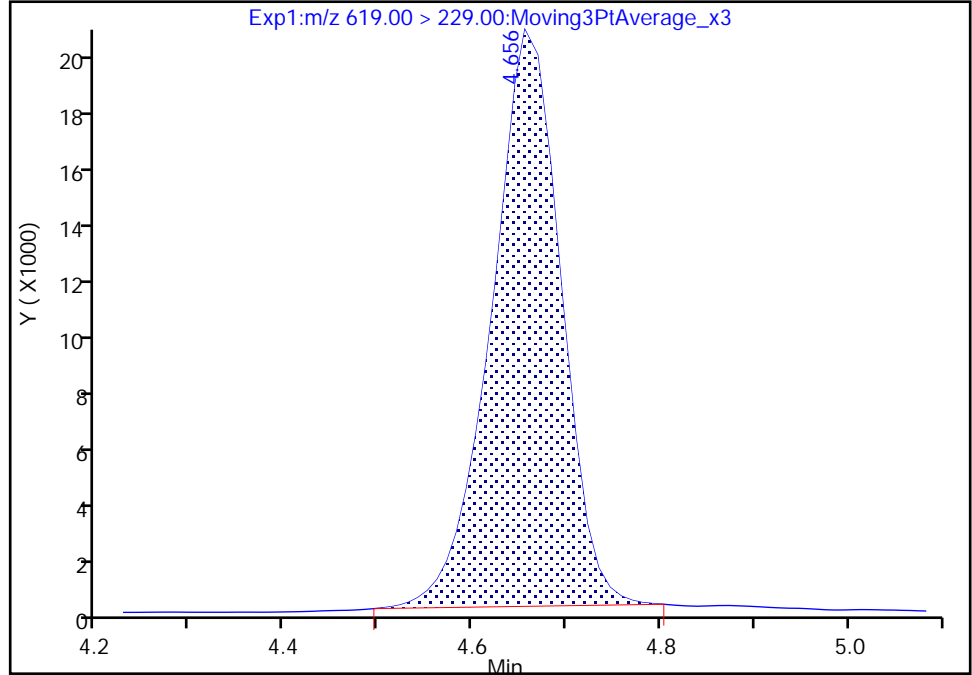
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

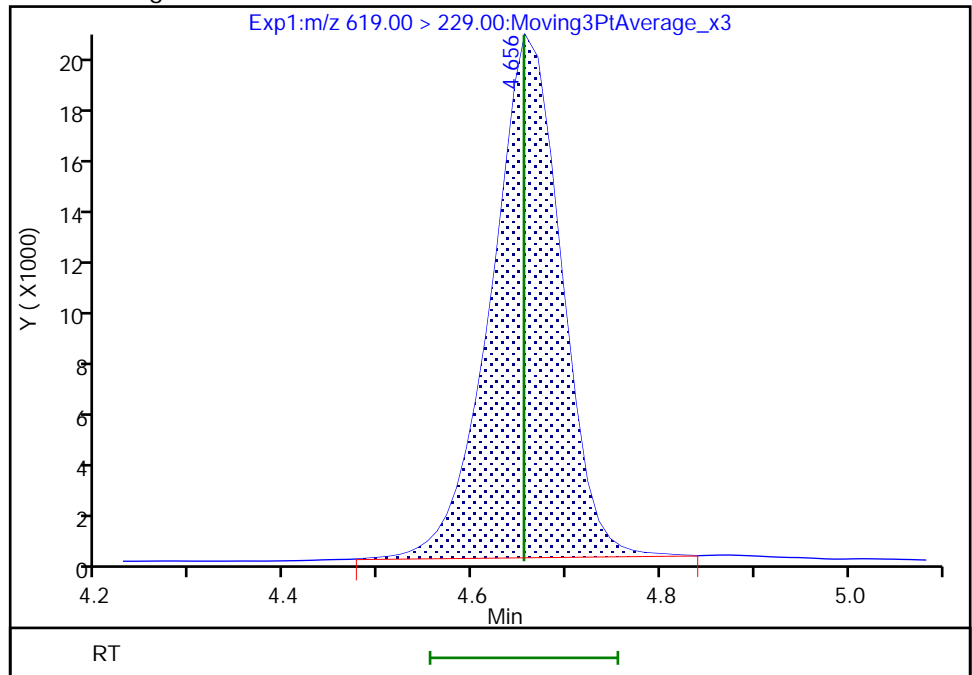
RT: 4.66
Area: 103151
Amount: 0.365064
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 104717
Amount: 0.356488
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:13
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

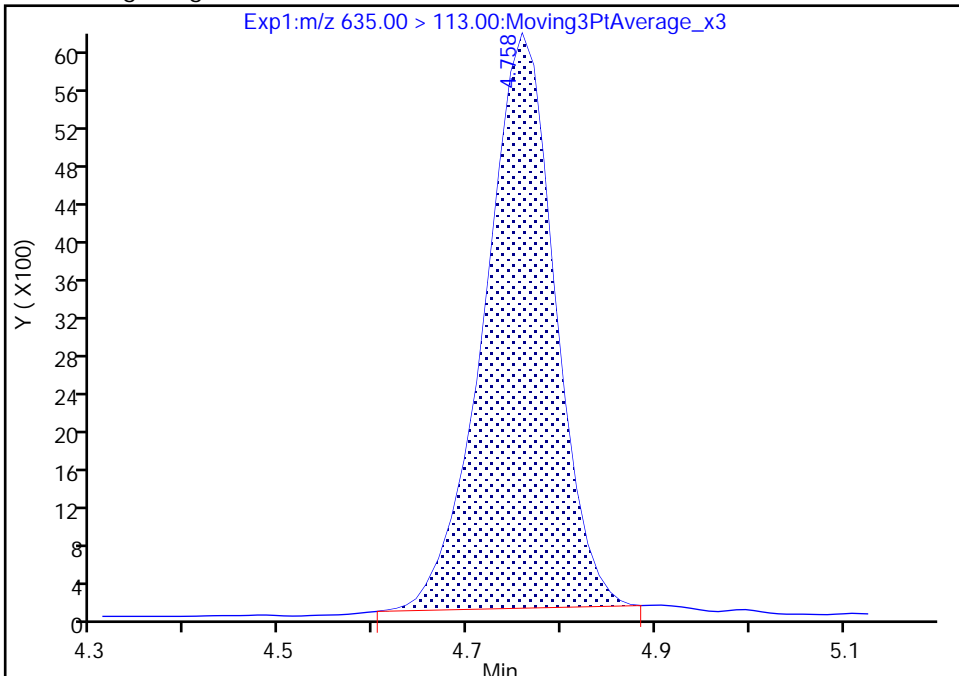
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

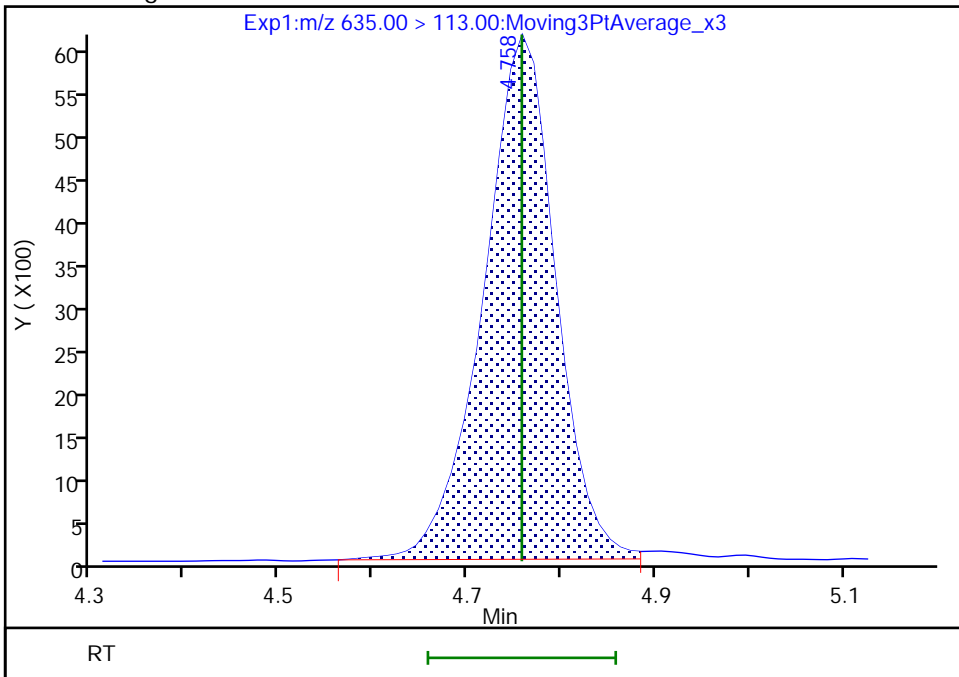
RT: 4.76
Area: 31413
Amount: 0.058264
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 32467
Amount: 0.063019
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:18
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

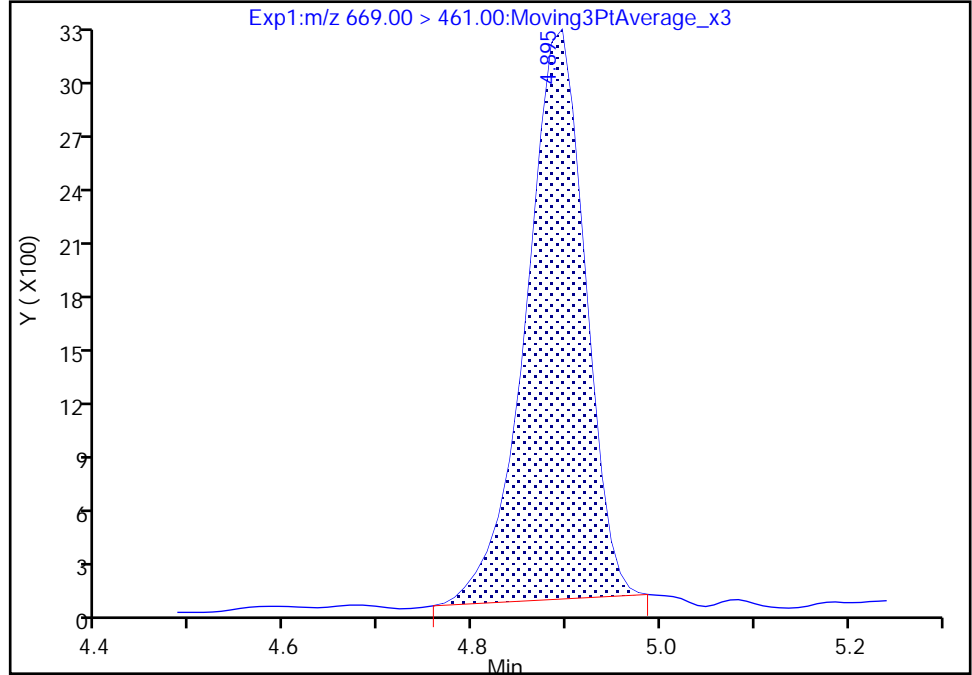
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

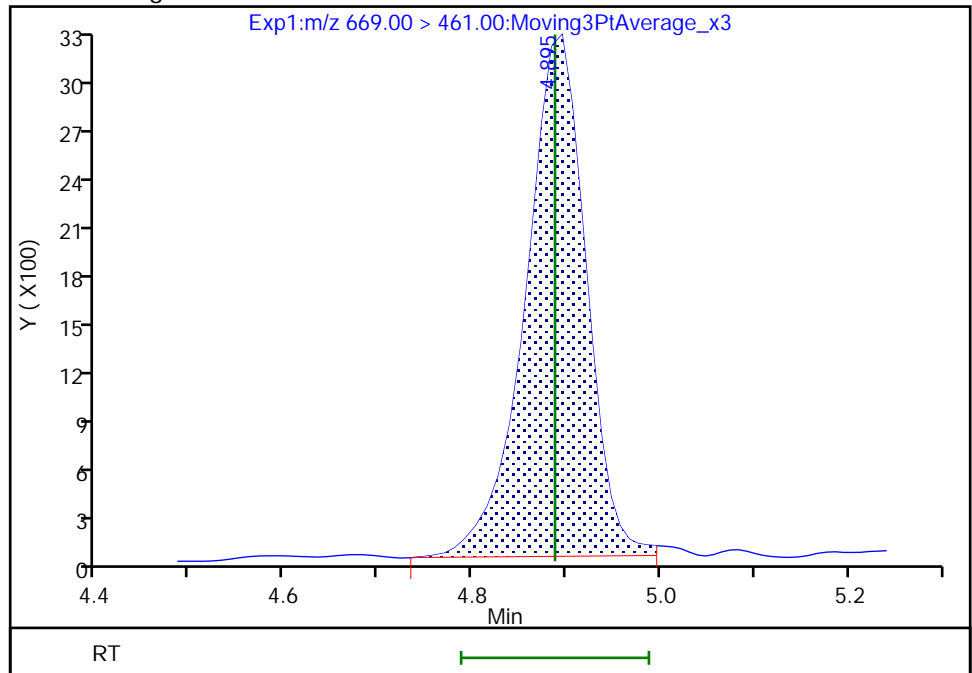
RT: 4.90
Area: 14017
Amount: 0.084246
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 14596
Amount: 0.090979
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:23
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Jun-2022 12:01:11 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:48 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:00:21

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.055	4.061	-0.006	0.908	66148	0.1253	93.8	1352	M
2 BFS_A3B									M
519.00 > 113.00	4.130	4.138	-0.008	0.925	74470	0.1344	90.0	158	M
3 BFS_B3									M
553.00 > 345.00	4.293	4.296	-0.003	0.962	163082	0.4668	98.2	251	M
4 BFS_A2B2									
569.00 > 229.00	4.393	4.397	-0.004	0.984	308059	1.01	96.9	445	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.465	4.468	-0.003	0.881	756152	5.17	103	1758	
5 BFS_A4B									M
585.00 > 113.00	4.483	4.484	-0.001	1.004	63988	0.0846	103	266	M
7 BFS_AB3									
619.00 > 229.00	4.652	4.655	-0.003	1.042	324614	1.14	102	561	
8 BFS_A3B2									
635.00 > 113.00	4.755	4.758	-0.003	1.065	101785	0.2044	104	348	
9 BFS_B4									M
669.00 > 461.00	4.881	4.888	-0.007	1.093	43063	0.2777	107	148	M
* 11 13C2 PFOA									
415.00 > 370.00	5.070	5.074	-0.004		4521342	5.00		2511	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d

Injection Date: 01-Jun-2022 12:01:11

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

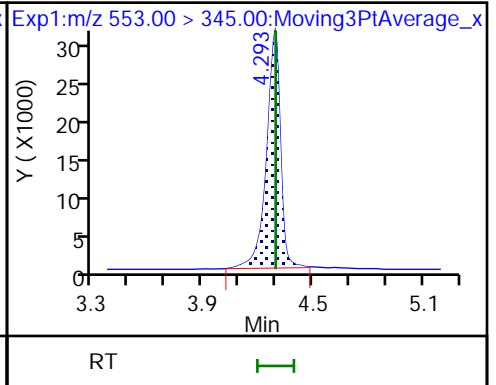
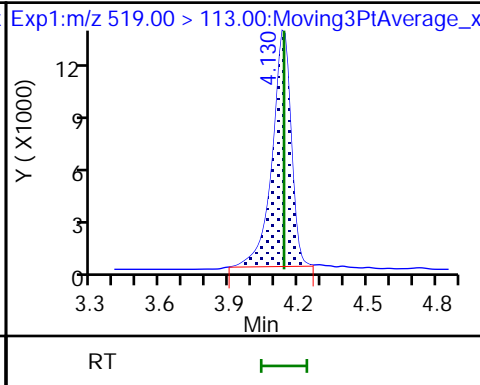
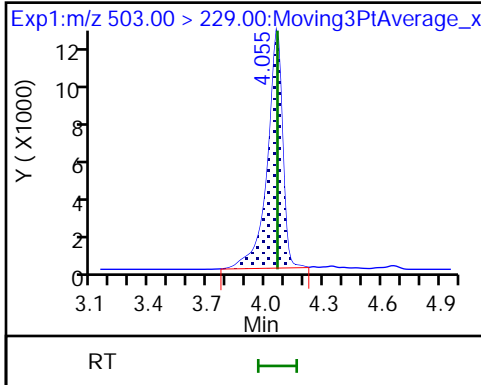
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

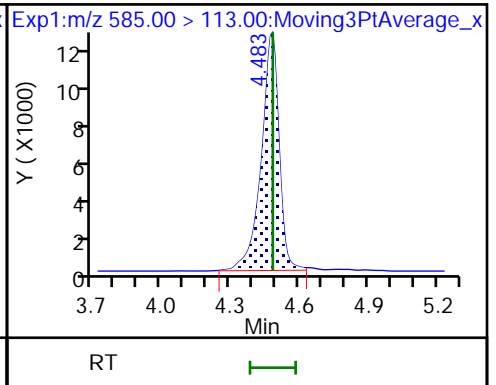
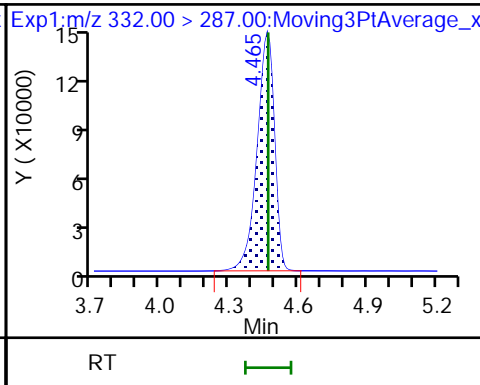
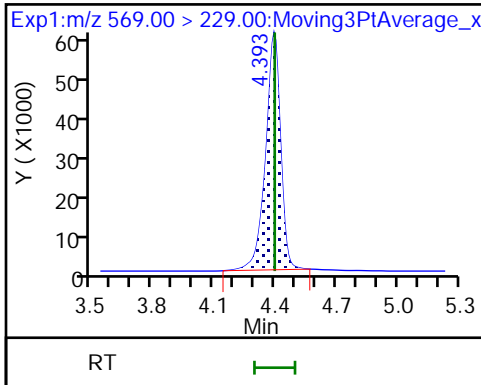
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

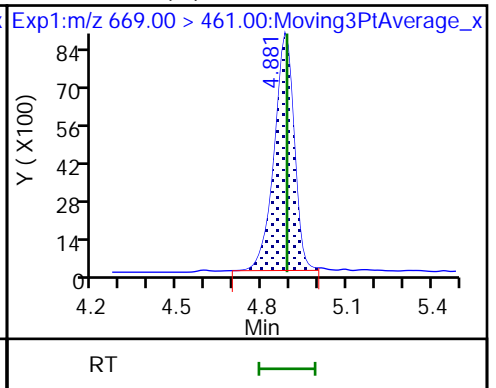
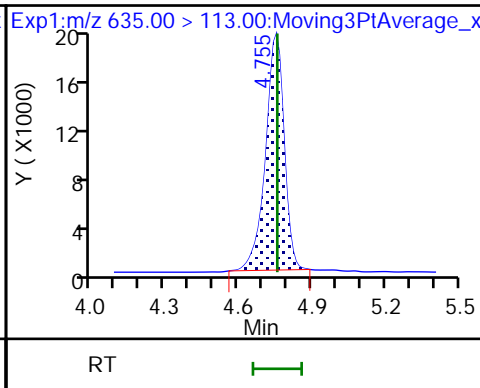
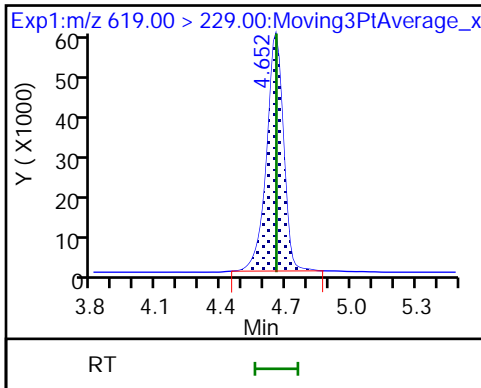
5 BFS_A4B (M)



7 BFS_AB3

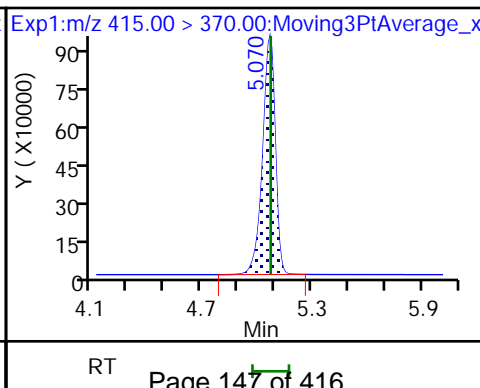
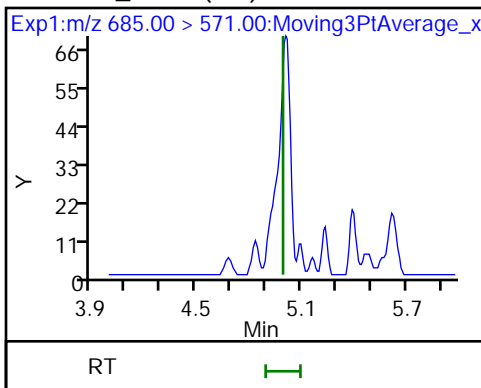
8 BFS_A3B2

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

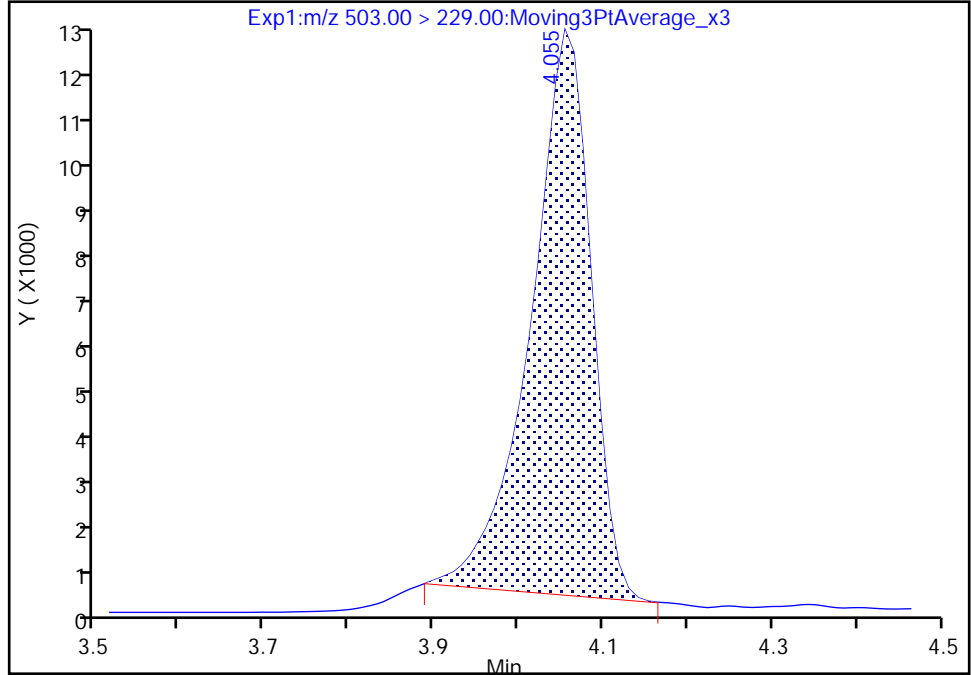
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

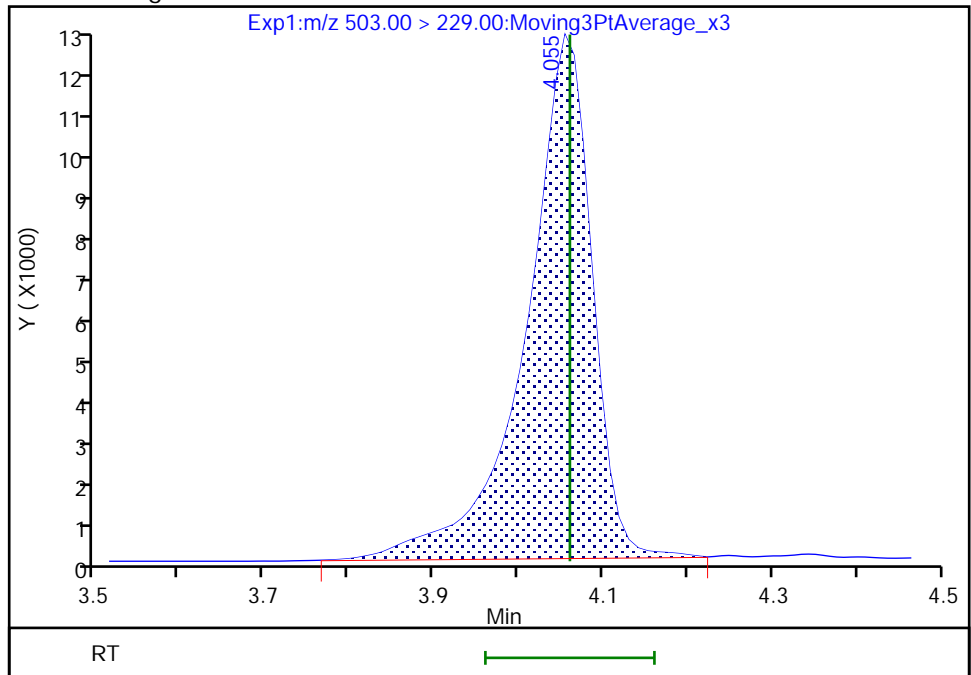
RT: 4.05
Area: 58695
Amount: 0.117961
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 66148
Amount: 0.125277
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:46
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

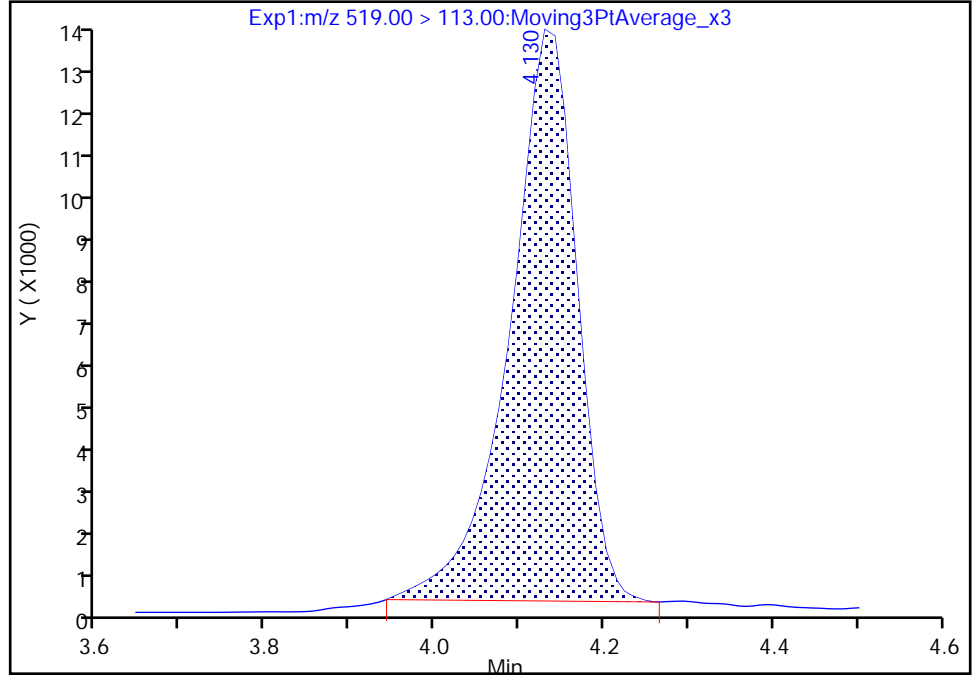
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

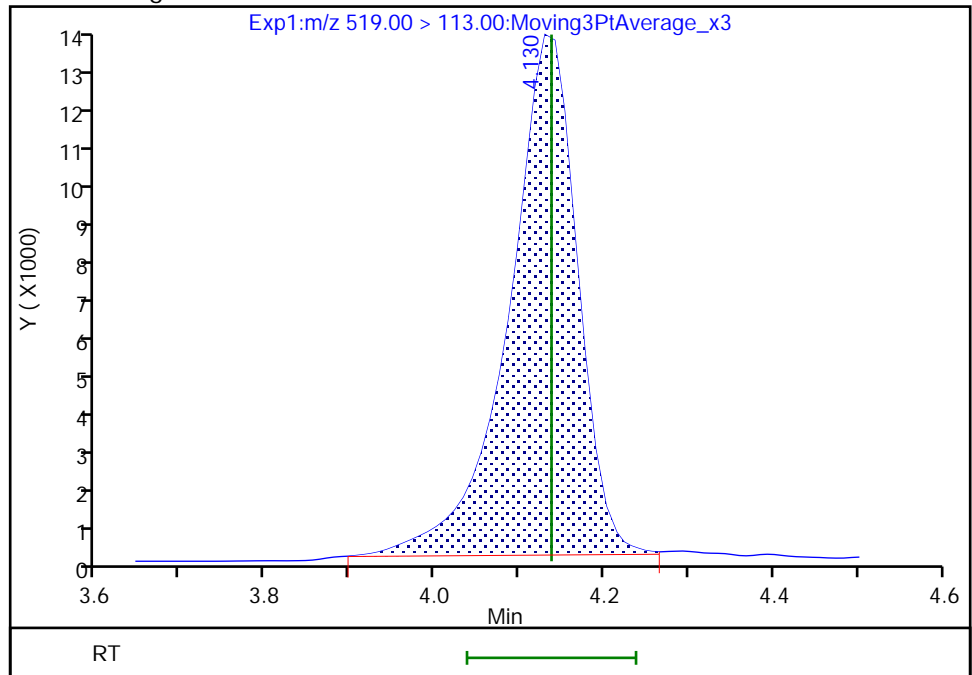
RT: 4.13
Area: 72099
Amount: 0.137734
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 74470
Amount: 0.134355
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:51
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

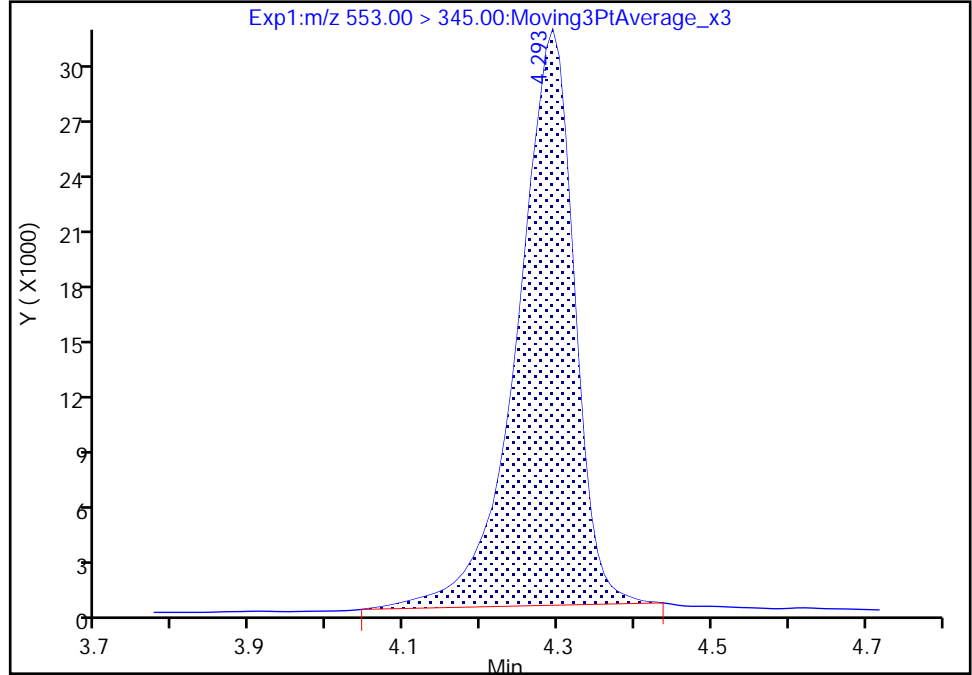
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

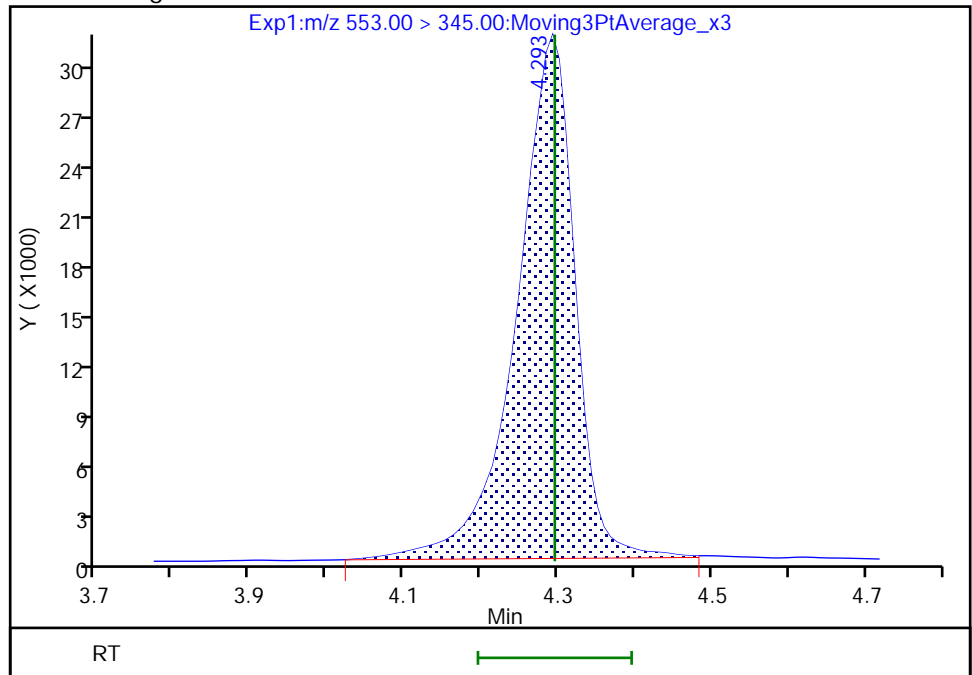
RT: 4.29
Area: 158223
Amount: 0.452526
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 163082
Amount: 0.466790
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:00:05
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

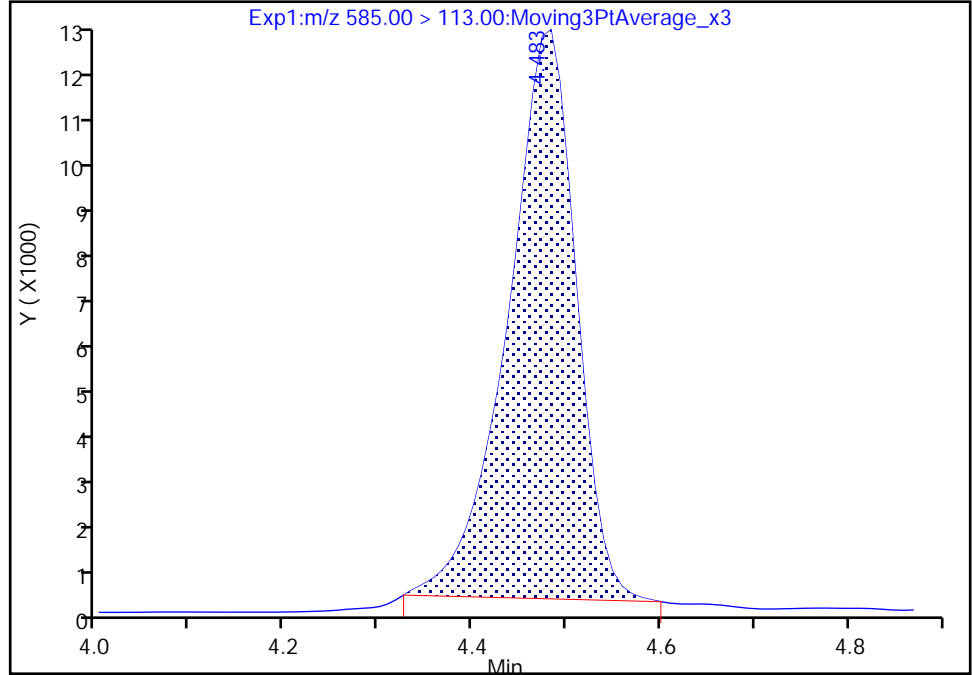
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

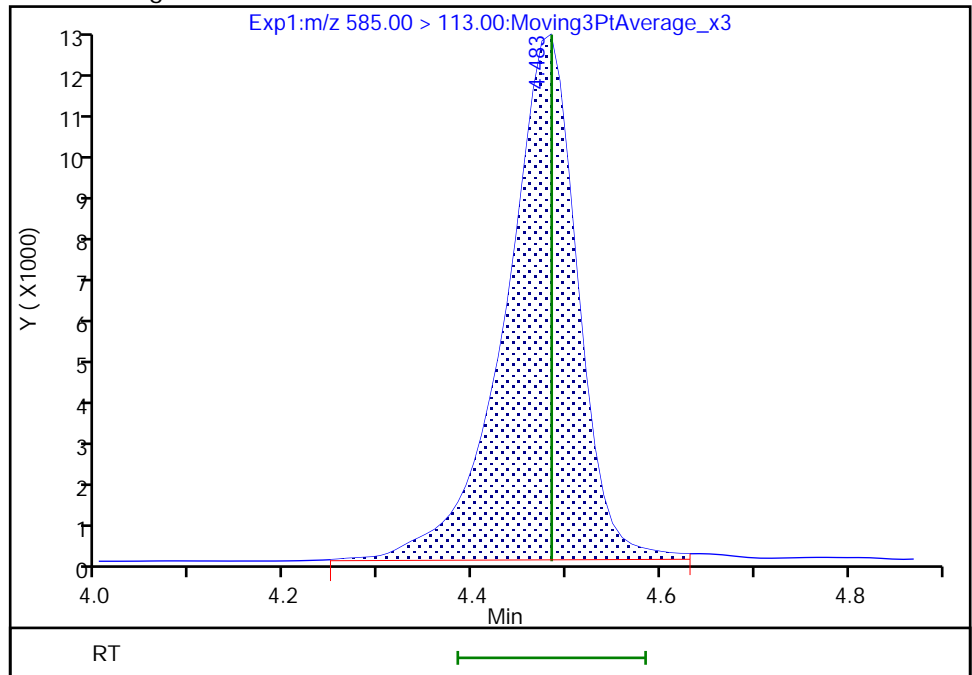
RT: 4.48
Area: 58990
Amount: 0.072555
Amount Units: ng/ml

Processing Integration Results



RT: 4.48
Area: 63988
Amount: 0.084588
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:00:11
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

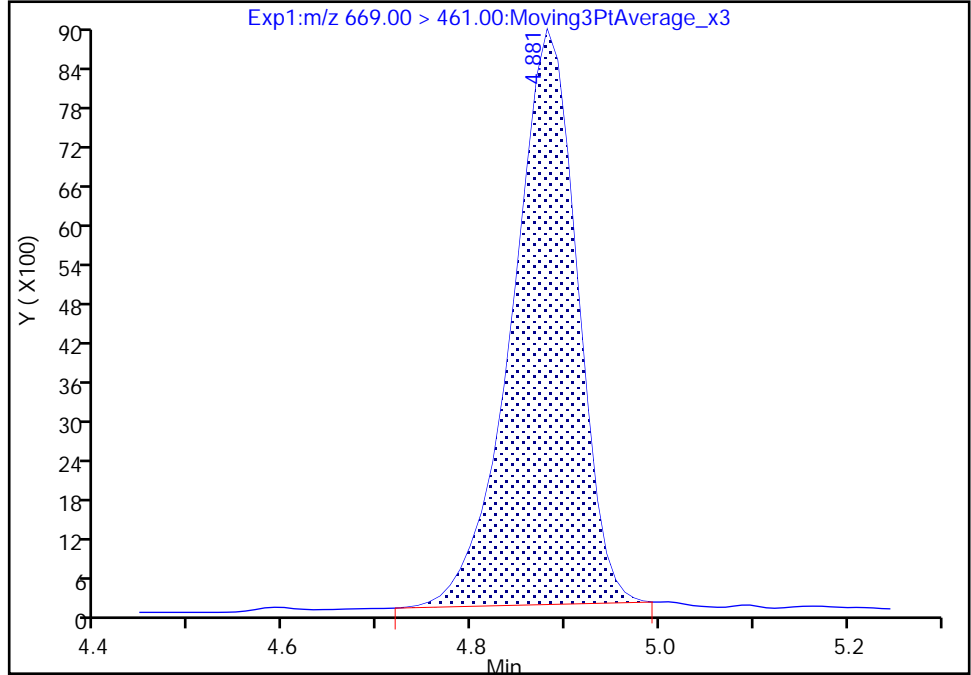
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

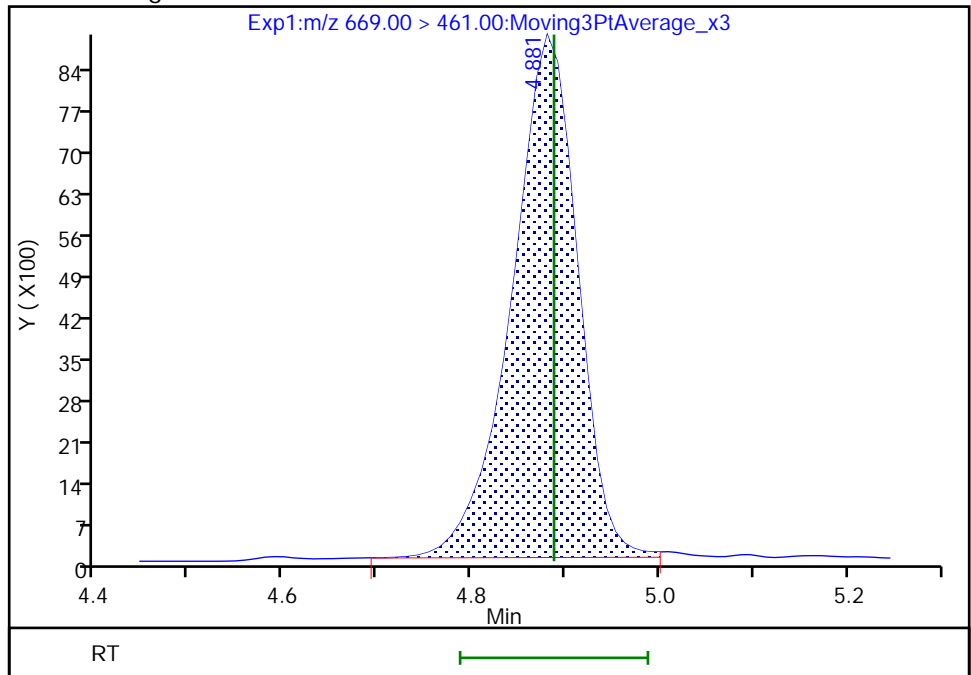
RT: 4.88
Area: 42193
Amount: 0.262373
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 43063
Amount: 0.277743
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:00:18
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Jun-2022 12:13:48 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:00:41

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.061	4.061	0.0	0.909	171038	0.3251	91.2	2652
2 BFS_A3B	519.00 > 113.00	4.137	4.138	-0.001	0.926	194295	0.3518	88.3	161
3 BFS_B3	553.00 > 345.00	4.294	4.296	-0.002	0.961	414974	1.19	94.0	391
4 BFS_A2B2	569.00 > 229.00	4.395	4.397	-0.002	0.984	804323	2.65	95.3	556
D 6 13C3 HFPO-DA	332.00 > 287.00	4.467	4.468	-0.001	0.880	753532	5.20	104	2524
5 BFS_A4B	585.00 > 113.00	4.477	4.484	-0.007	1.002	166026	0.2202	100	337
7 BFS_AB3	619.00 > 229.00	4.656	4.655	0.001	1.042	841017	2.98	100.0	897
8 BFS_A3B2	635.00 > 113.00	4.758	4.758	0.0	1.065	269883	0.5439	104	515
9 BFS_B4	669.00 > 461.00	4.884	4.888	-0.004	1.093	110459	0.7149	103	300
10 BFS_A2B3	685.00 > 571.00	4.967	4.994	-0.027	1.112	831	0.0541	103	32.0 M
* 11 13C2 PFOA	415.00 > 370.00	5.074	5.074	0.0		4476696	5.00		2701

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-03.d

Injection Date: 01-Jun-2022 12:13:48

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

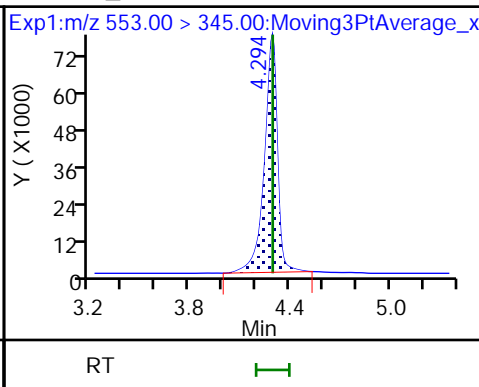
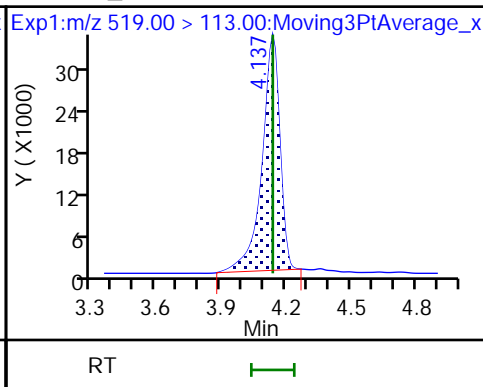
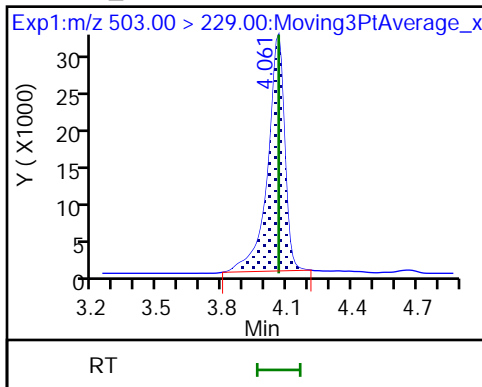
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

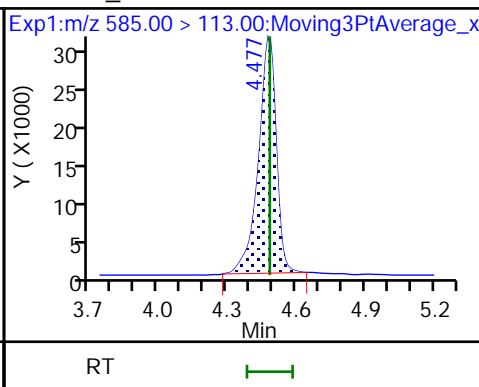
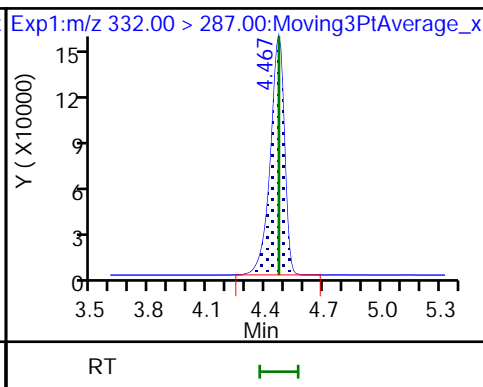
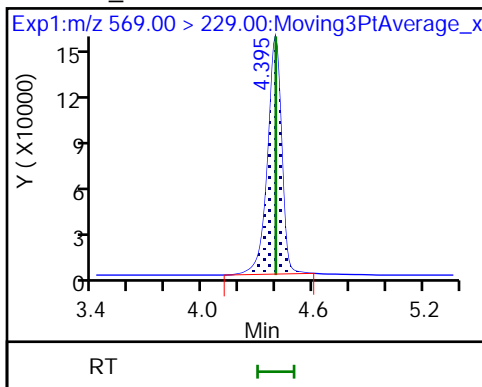
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

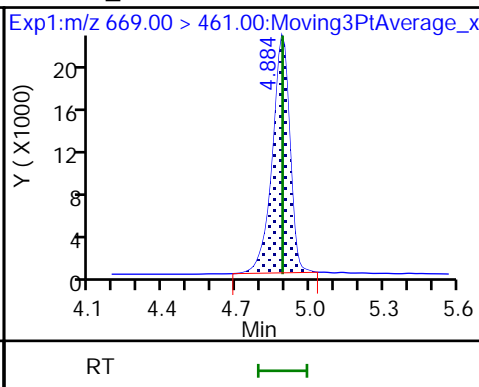
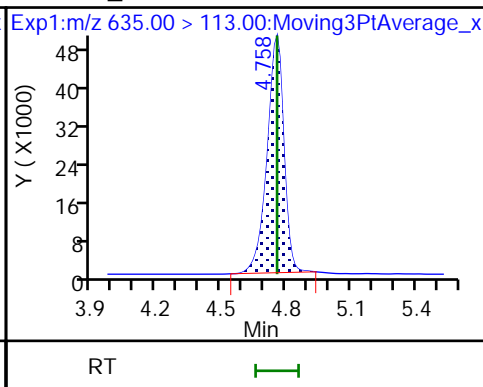
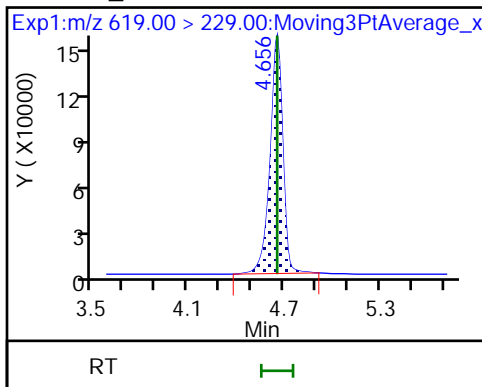
5 BFS_A4B



7 BFS_AB3

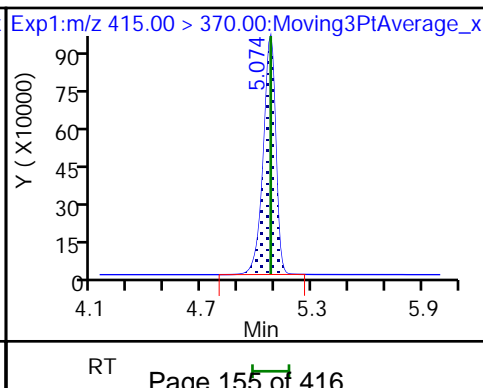
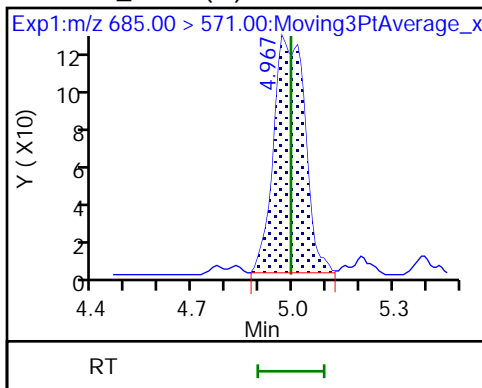
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

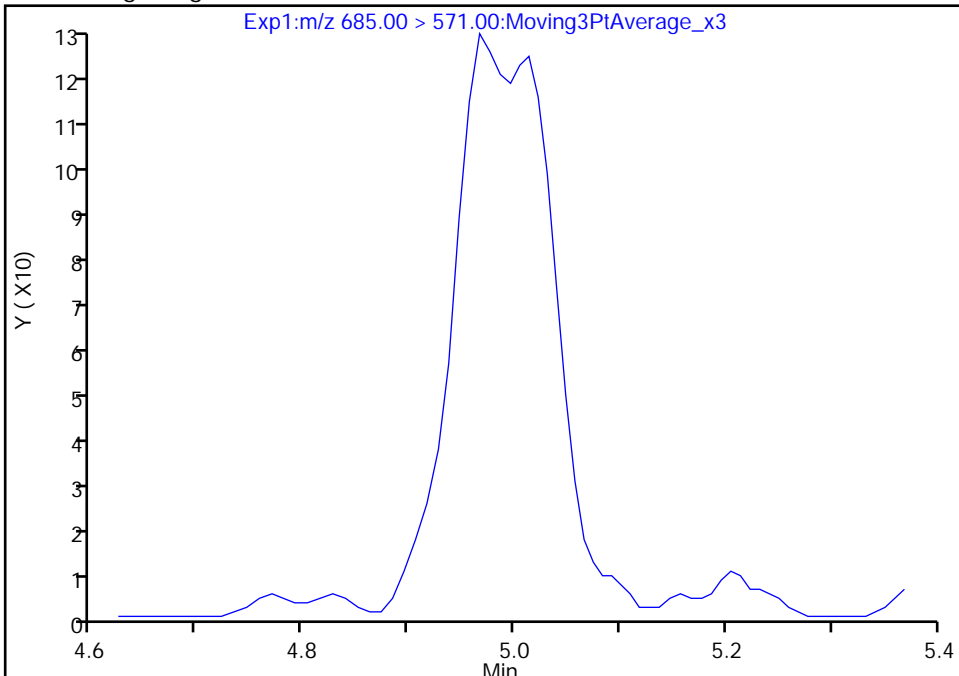
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-03.d
Injection Date: 01-Jun-2022 12:13:48 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

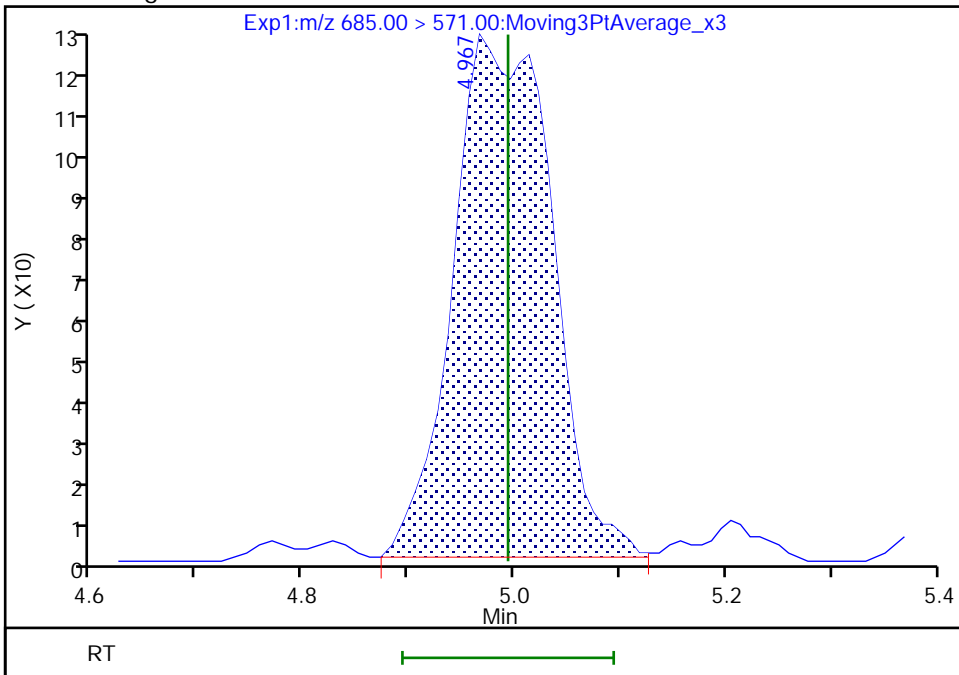
Not Detected
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.97
Area: 831
Amount: 0.054103
Amount Units: ng/ml



Reviewer: kruelleh, 01-Jun-2022 14:00:37
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Jun-2022 12:26:25 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:01:30

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.062	4.061	0.001	0.909	427530	0.8171	91.7	3947
2 BFS_A3B	519.00 > 113.00	4.138	4.138	0.0	0.926	513420	0.9347	93.9	189
3 BFS_B3	553.00 > 345.00	4.295	4.296	-0.001	0.961	1071990	3.10	97.8	491
4 BFS_A2B2	569.00 > 229.00	4.394	4.397	-0.003	0.984	2119206	7.02	101	1229
D 6 13C3 HFPO-DA	332.00 > 287.00	4.467	4.468	-0.001	0.880	749330	5.17	103	2148
5 BFS_A4B	585.00 > 113.00	4.485	4.484	0.001	1.004	435077	0.5804	106	457
7 BFS_AB3	619.00 > 229.00	4.655	4.655	0.0	1.042	2092742	7.46	100	913 M
8 BFS_A3B2	635.00 > 113.00	4.758	4.758	0.0	1.065	687074	1.39	106	785
9 BFS_B4	669.00 > 461.00	4.884	4.888	-0.004	1.093	278773	1.81	105	449
10 BFS_A2B3	685.00 > 571.00	4.995	4.994	0.001	1.118	2106	0.1379	105	61.4 M
* 11 13C2 PFOA	415.00 > 370.00	5.073	5.074	-0.001		4476890	5.00		3193

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d

Injection Date: 01-Jun-2022 12:26:25

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

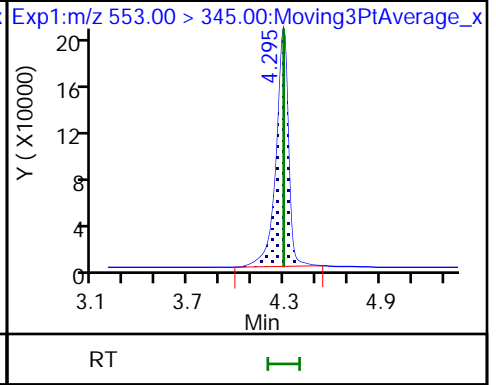
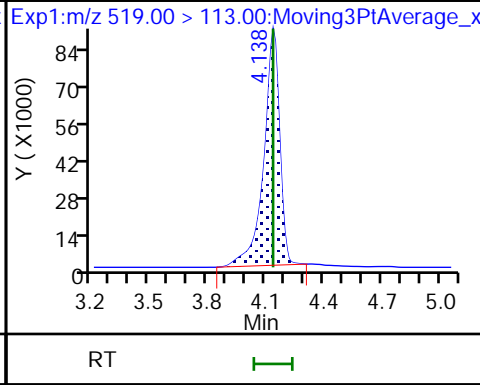
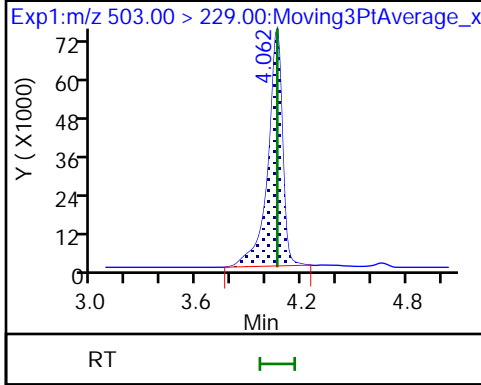
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

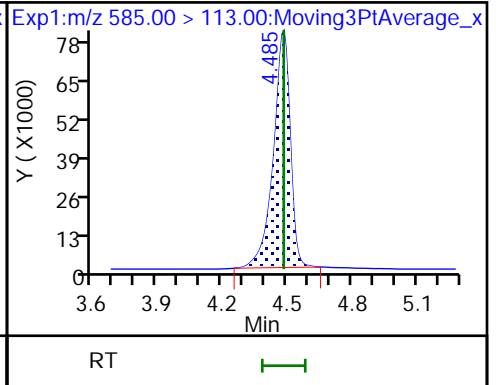
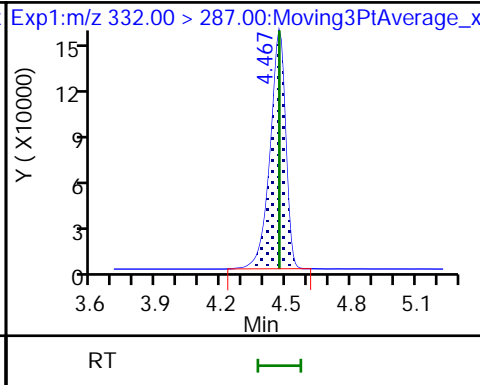
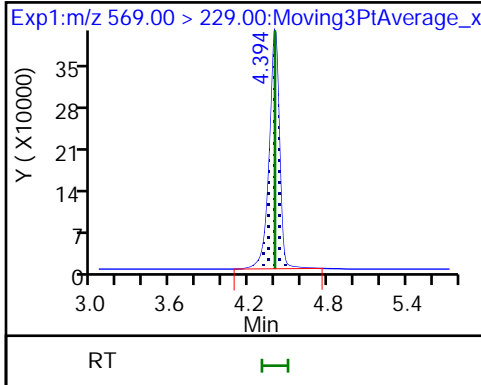
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

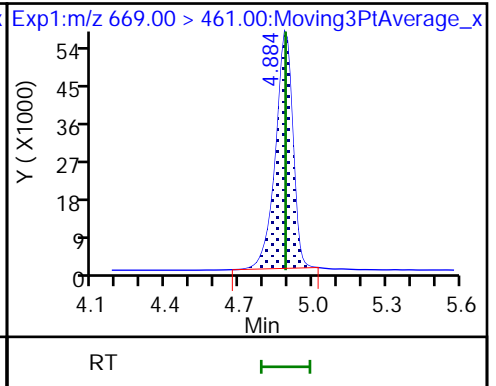
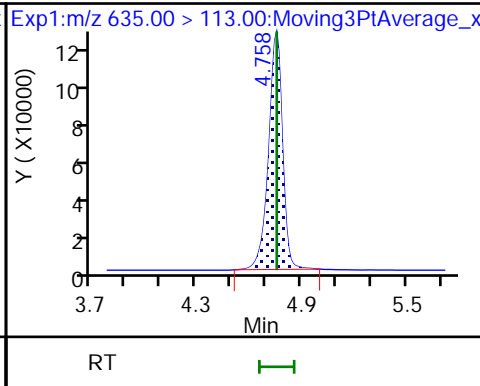
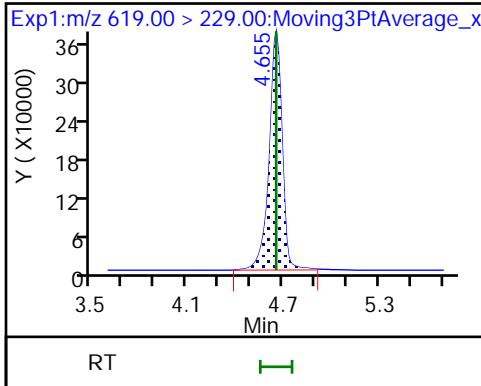
5 BFS_A4B



7 BFS_AB3 (M)

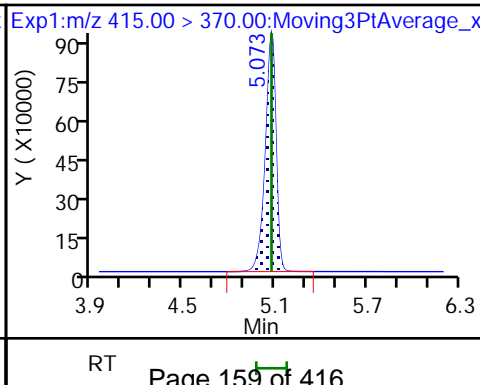
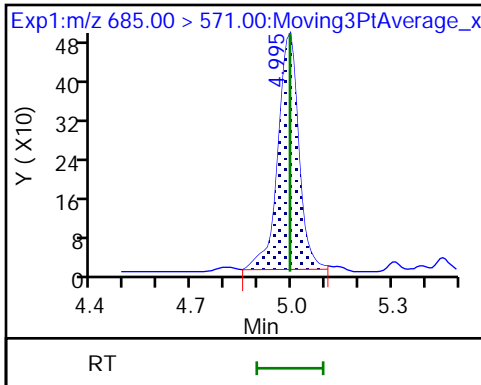
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

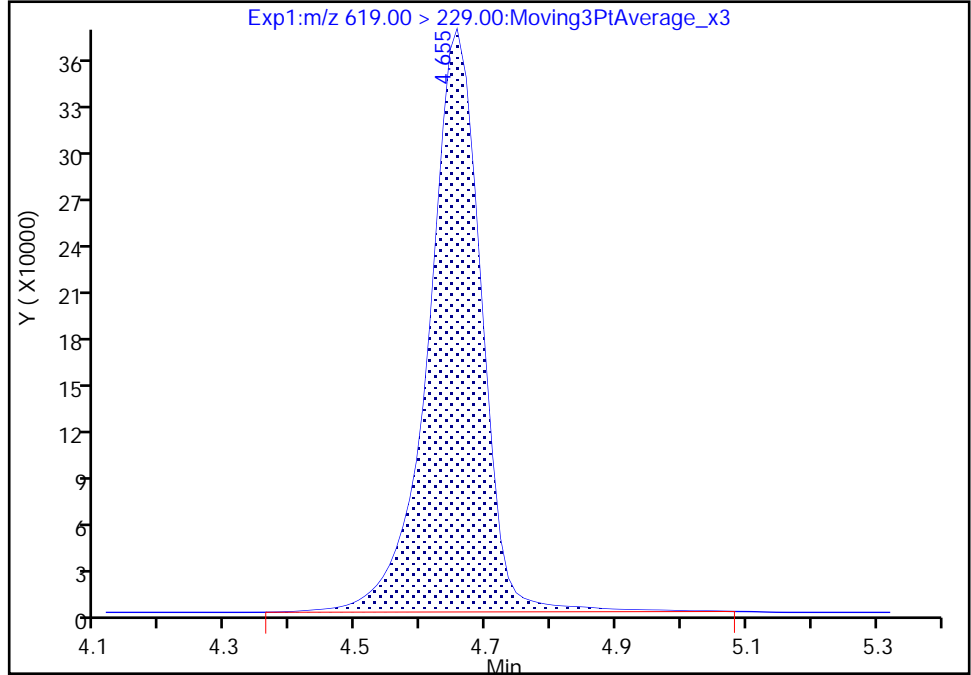
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d
Injection Date: 01-Jun-2022 12:26:25 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

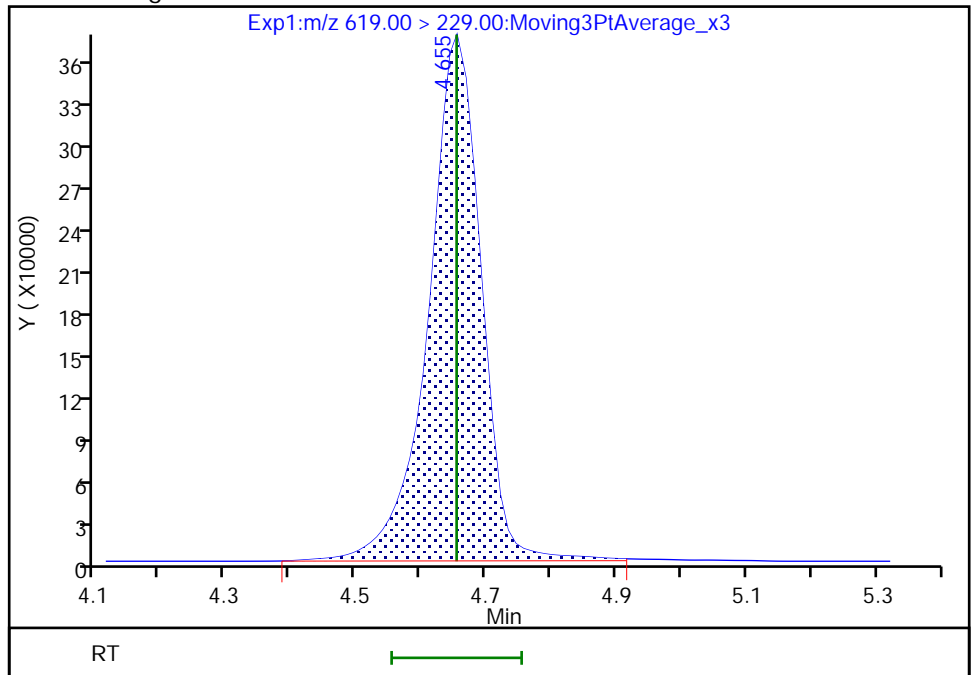
RT: 4.66
Area: 2097796
Amount: 7.751945
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 2092742
Amount: 7.456230
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:20
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

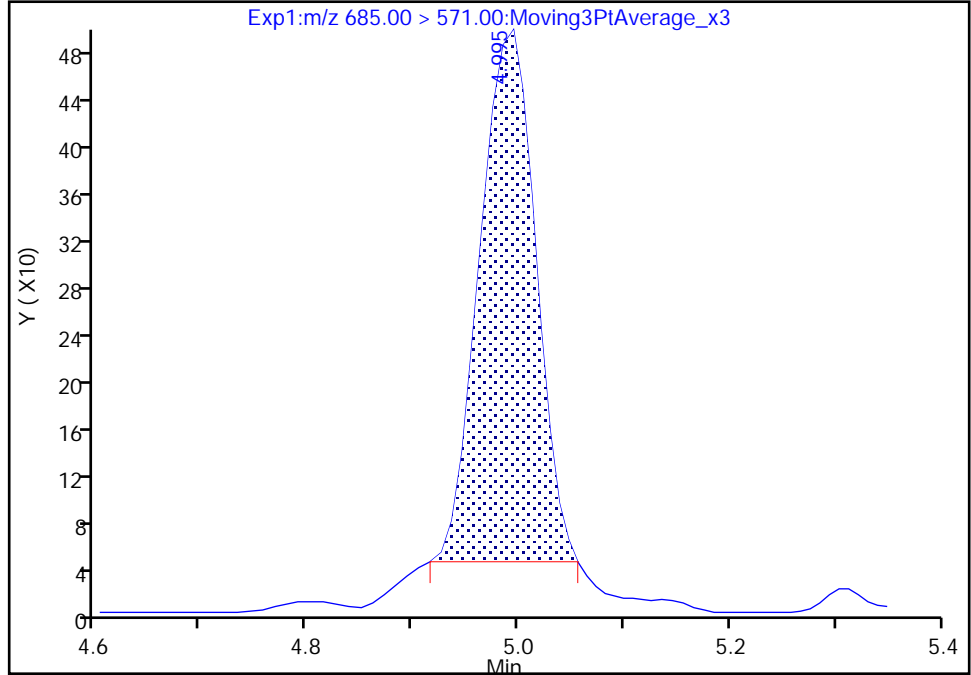
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d
Injection Date: 01-Jun-2022 12:26:25 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

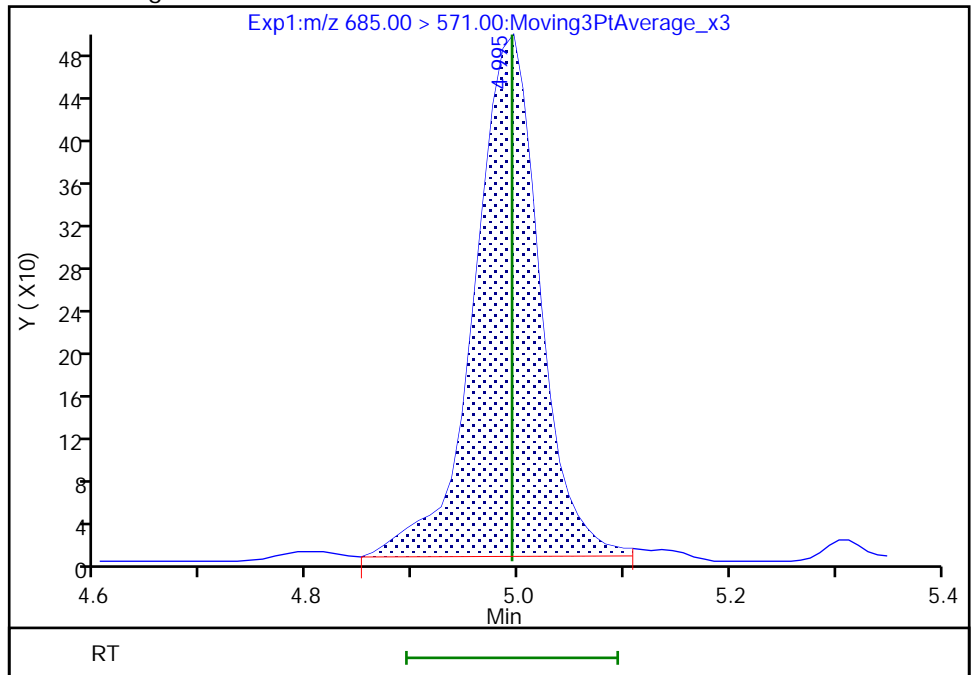
RT: 5.00
Area: 1661
Amount: 0.118038
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 2106
Amount: 0.137882
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:26
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 01-Jun-2022 12:39:02 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:51 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:58:41

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags	
1 BFS_AB2	503.00 > 229.00	4.059	4.061	-0.002	0.910	846634	1.71	95.8	5031	
2 BFS_A3B	519.00 > 113.00	4.135	4.138	-0.003	0.927	1013274	1.94	97.7	220	
3 BFS_B3	553.00 > 345.00	4.287	4.296	-0.009	0.961	2240373	6.84	108	788	
4 BFS_A2B2	569.00 > 229.00	4.396	4.397	-0.001	0.986	4219900	14.8	107	1007	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.459	4.468	-0.009	0.880	710727	5.10	102	1786	
5 BFS_A4B	585.00 > 113.00	4.478	4.484	-0.006	1.004	886268	1.25	113	749	
7 BFS_AB3	619.00 > 229.00	4.646	4.655	-0.009	1.042	4383968	16.5	111	2342	
8 BFS_A3B2	635.00 > 113.00	4.747	4.758	-0.011	1.065	1423801	3.04	116	940	
9 BFS_B4	669.00 > 461.00	4.885	4.888	-0.003	1.096	563680	3.87	112	728	
10 BFS_A2B3	685.00 > 571.00	4.987	4.994	-0.007	1.118	3428	0.2366	90.3	125	Ma M
* 11 13C2 PFOA	415.00 > 370.00	5.067	5.074	-0.007		4302981	5.00		2313	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-05.d

Injection Date: 01-Jun-2022 12:39:02

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

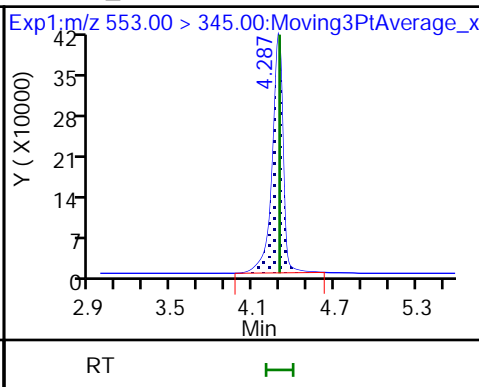
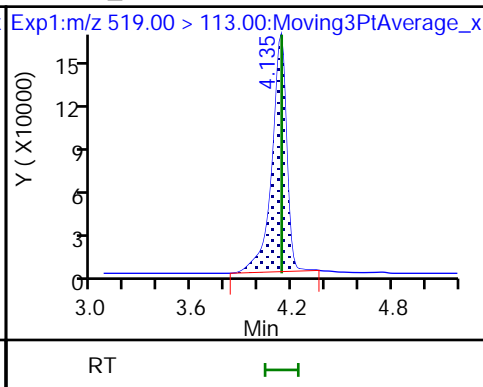
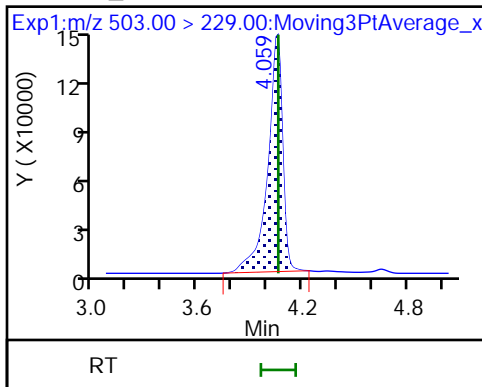
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

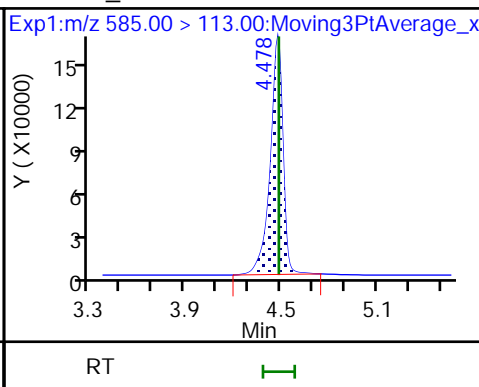
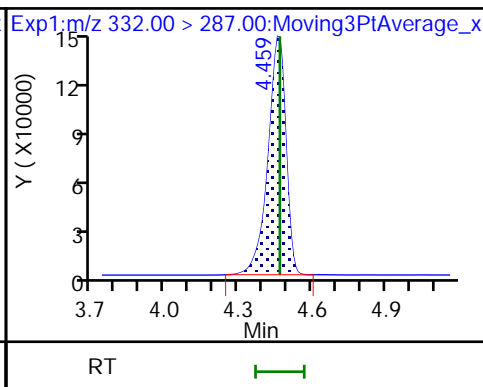
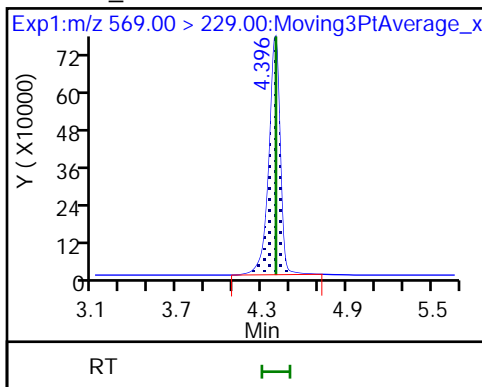
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

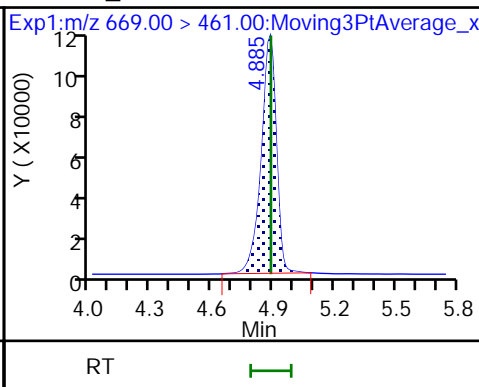
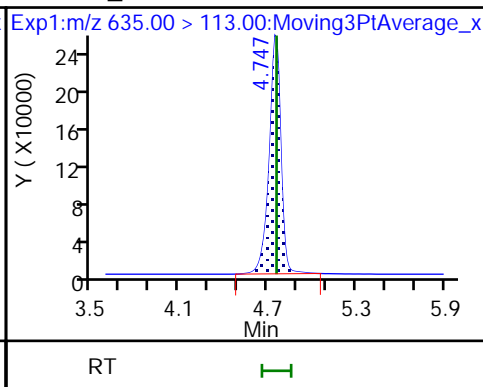
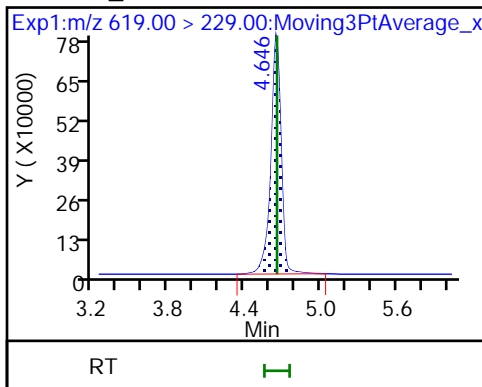
5 BFS_A4B



7 BFS_AB3

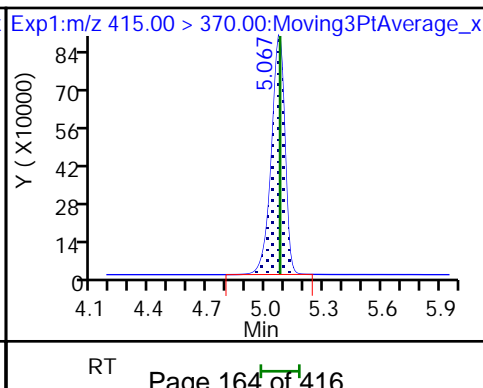
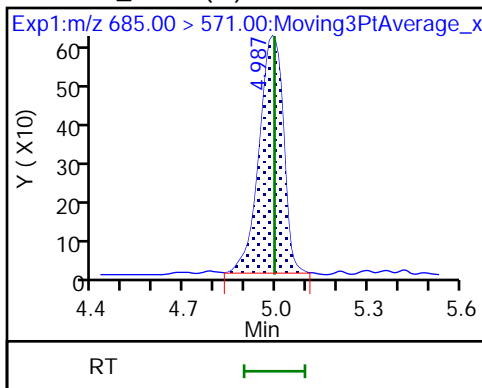
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

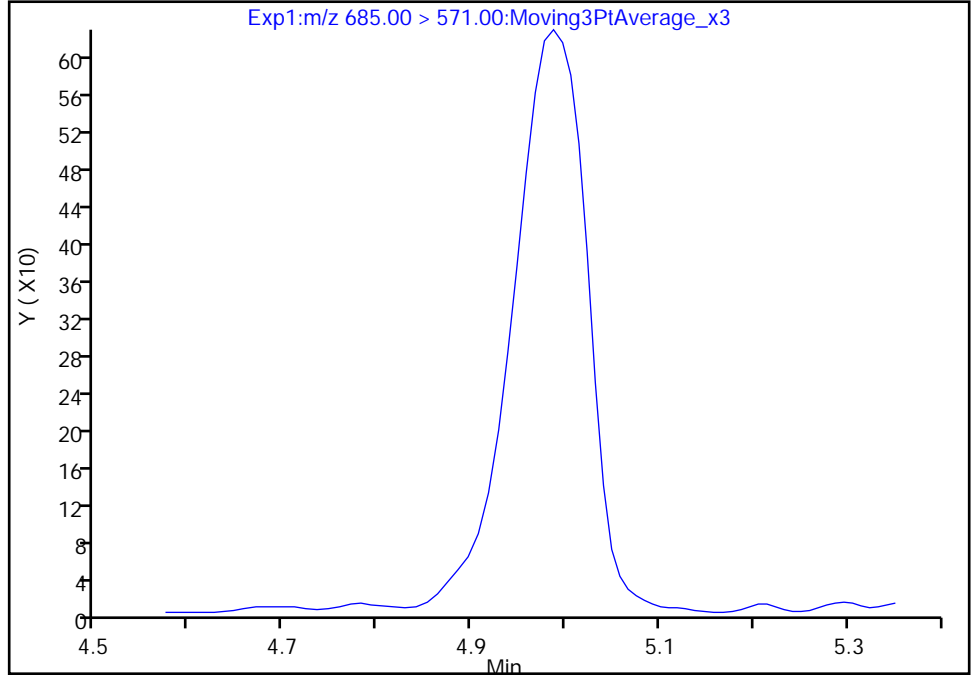
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-05.d
Injection Date: 01-Jun-2022 12:39:02 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

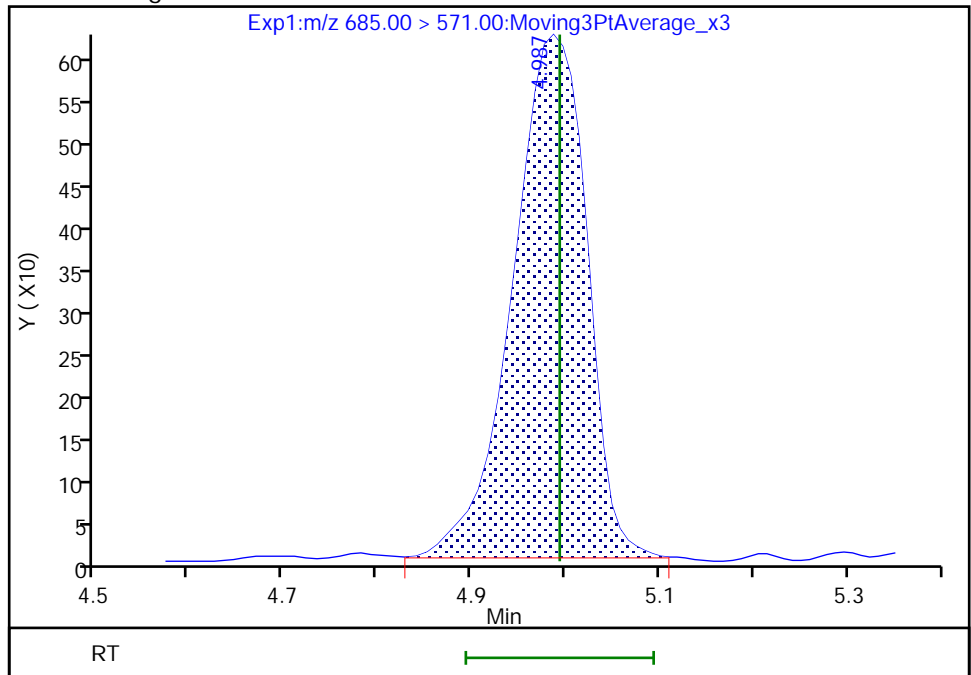
Not Detected
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 3428
Amount: 0.236624
Amount Units: ng/ml



Reviewer: kruelleh, 01-Jun-2022 13:58:35
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 01-Jun-2022 12:51:39 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:52 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:02:20

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.065	4.061	0.004	0.909	2034419	4.15	93.2	6676
2 BFS_A3B	519.00 > 113.00	4.141	4.138	0.003	0.926	2380227	4.62	92.9	260
3 BFS_B3	553.00 > 345.00	4.298	4.296	0.002	0.961	5230603	16.2	102	729 M
4 BFS_A2B2	569.00 > 229.00	4.398	4.397	0.001	0.984	10000371	35.8	103	787 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.470	4.468	0.002	0.881	702341	4.92	98.5	2348
5 BFS_A4B	585.00 > 113.00	4.489	4.484	0.005	1.004	2059941	2.93	107	506 M
7 BFS_AB3	619.00 > 229.00	4.658	4.655	0.003	1.042	9417379	36.1	97.2	1089 M
8 BFS_A3B2	635.00 > 113.00	4.760	4.758	0.002	1.065	3134979	6.78	104	1274
9 BFS_B4	669.00 > 461.00	4.885	4.888	-0.003	1.093	1325888	9.21	107	1105
10 BFS_A2B3	685.00 > 571.00	5.005	4.994	0.011	1.120	8465	0.5913	90.3	180 M
* 11 13C2 PFOA	415.00 > 370.00	5.074	5.074	0.0		4406104	5.00		2538

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d

Injection Date: 01-Jun-2022 12:51:39

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

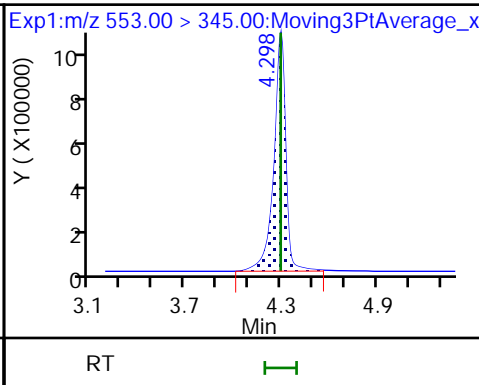
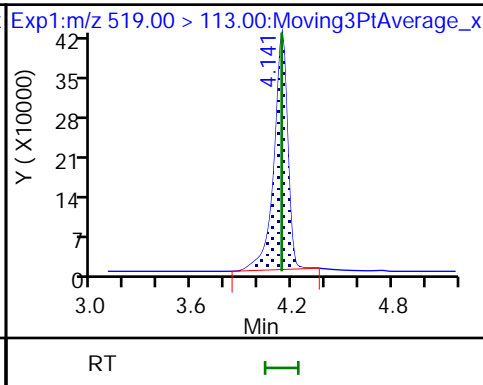
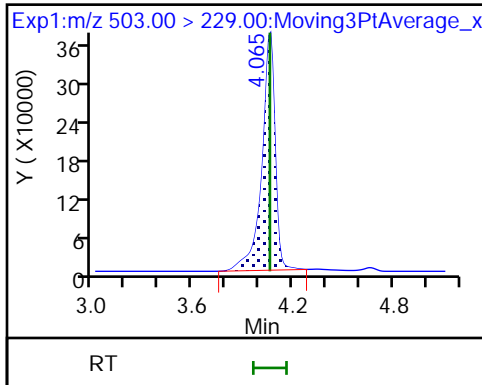
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

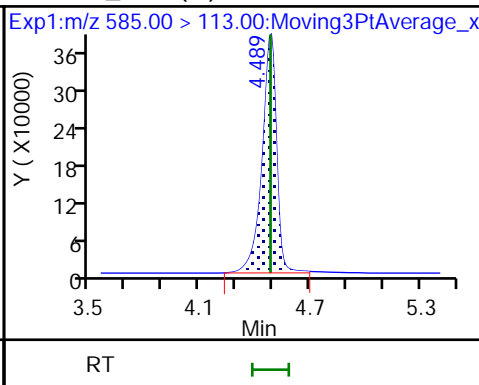
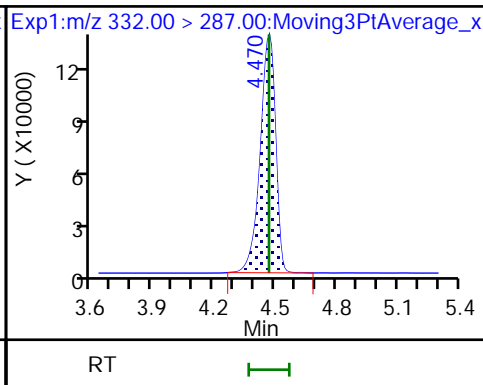
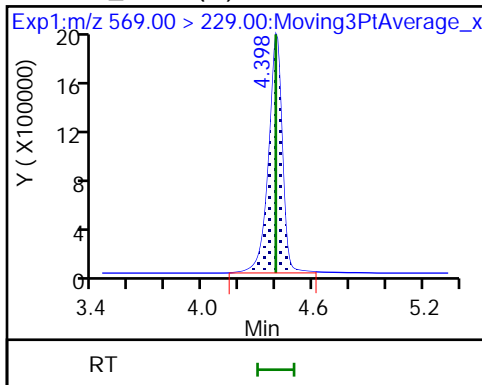
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

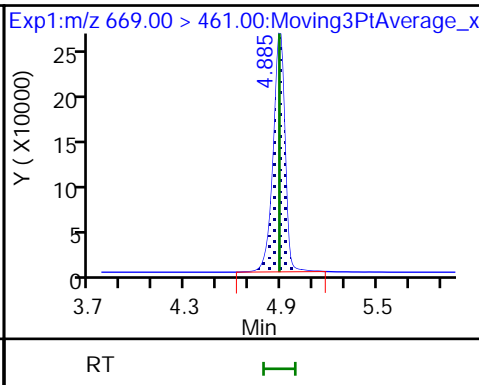
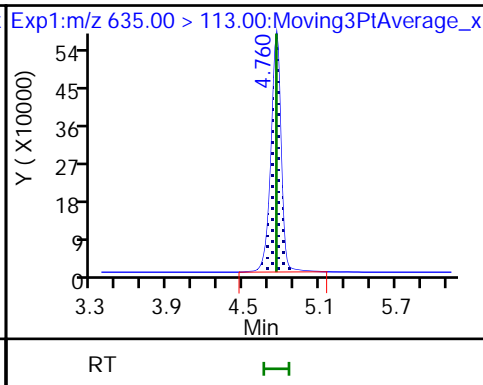
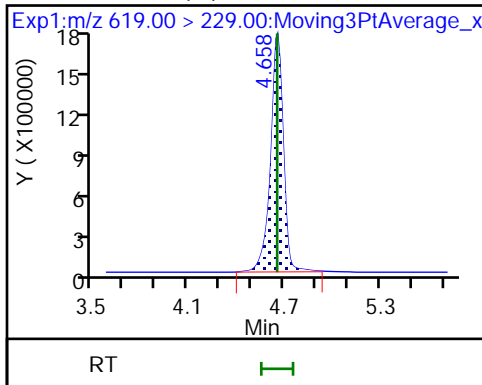
5 BFS_A4B (M)



7 BFS_AB3 (M)

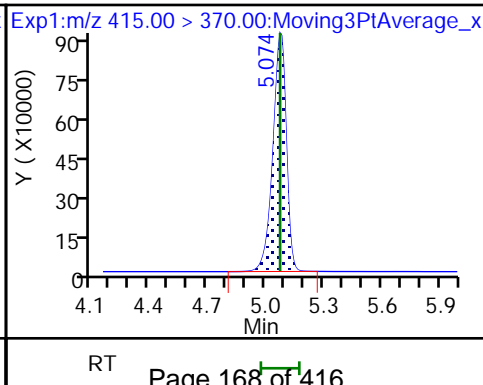
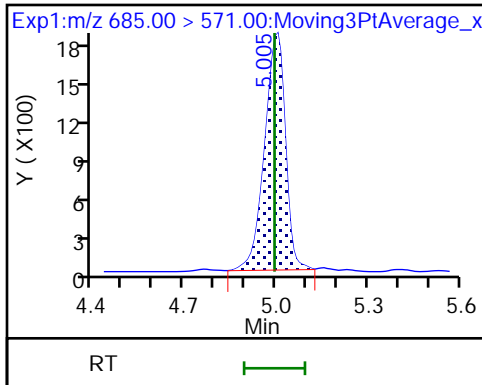
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

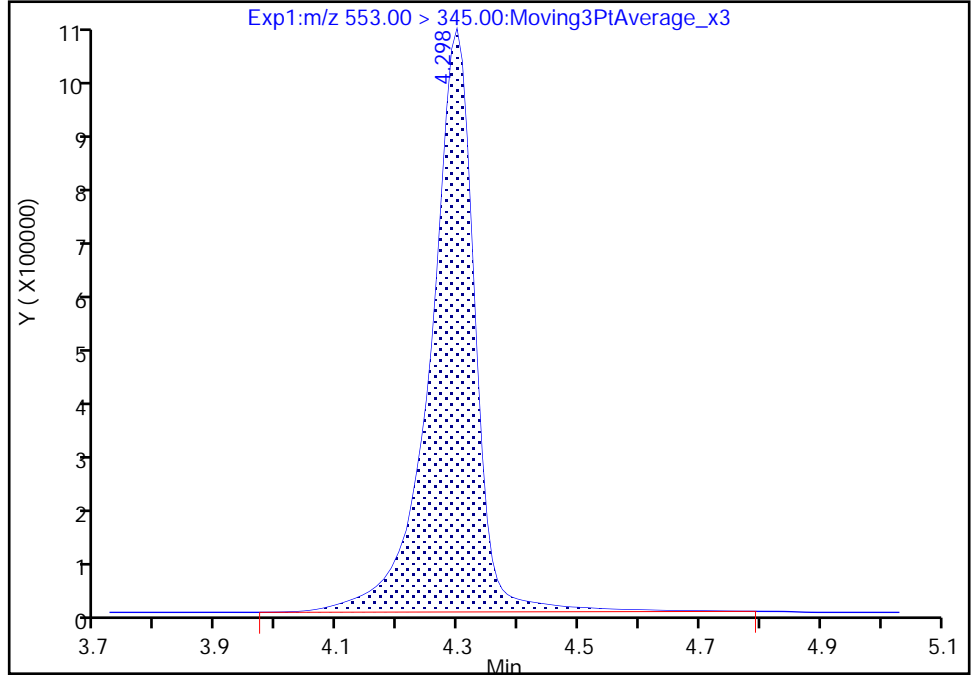
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

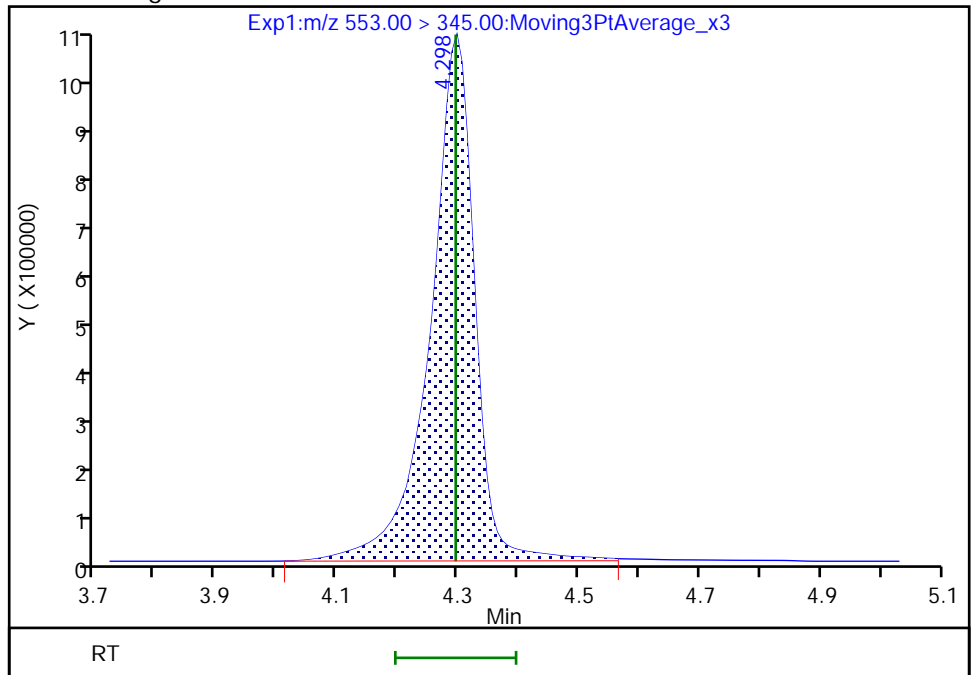
RT: 4.30
Area: 5246043
Amount: 16.149717
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 5230603
Amount: 16.211092
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:43
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

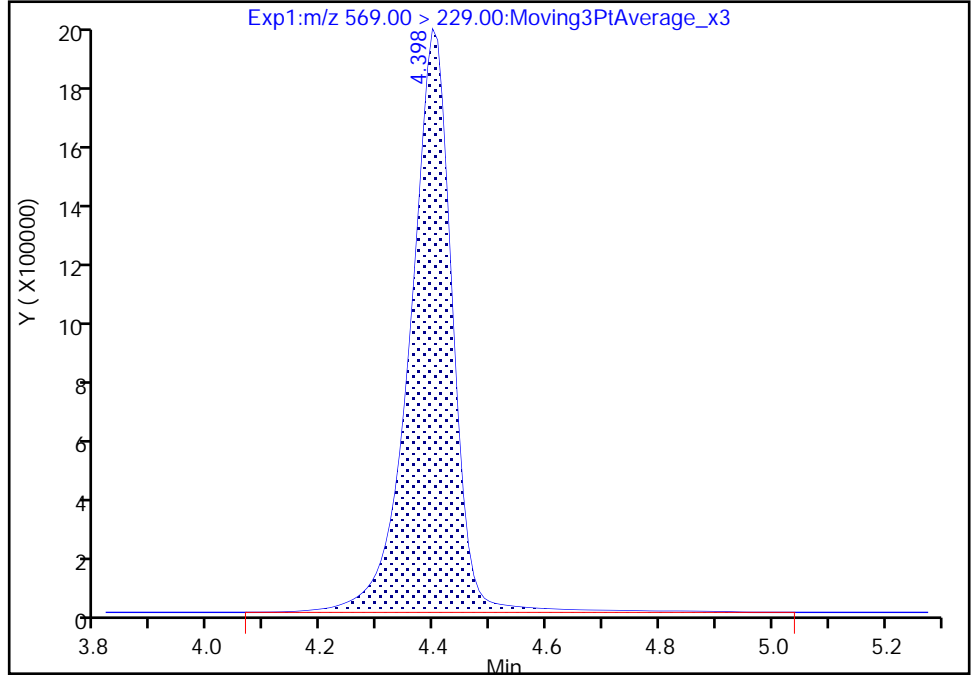
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

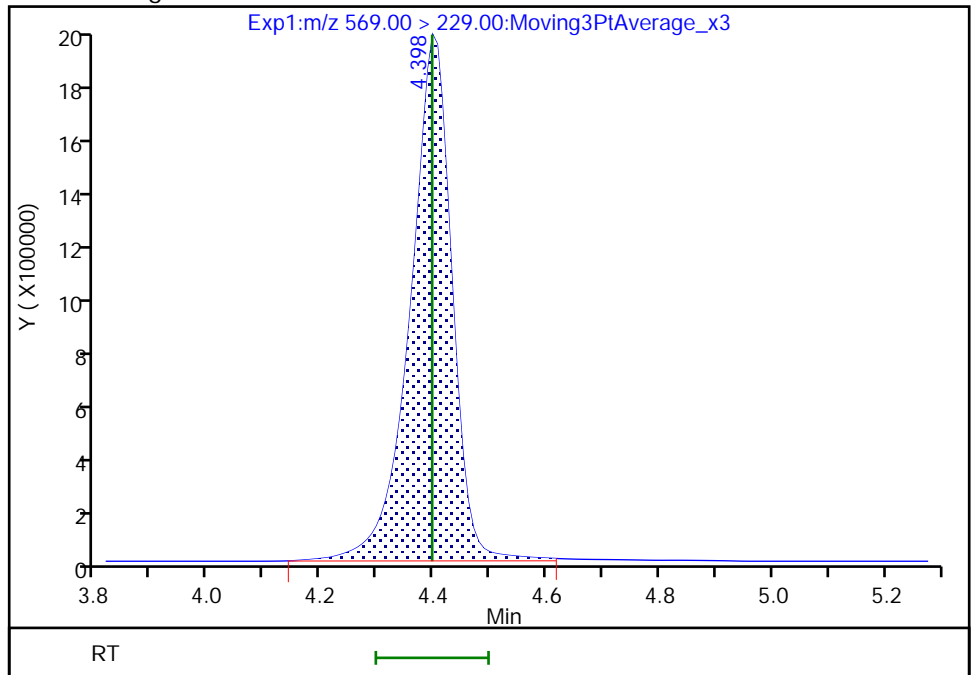
RT: 4.40
Area: 10128835
Amount: 35.729478
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 10000371
Amount: 35.830759
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:56
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

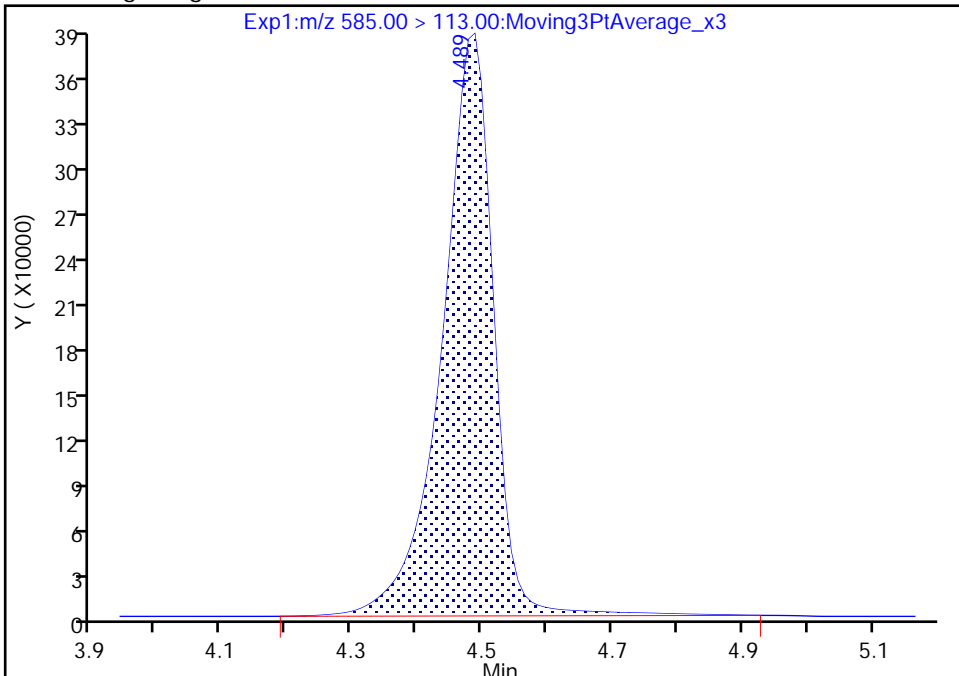
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

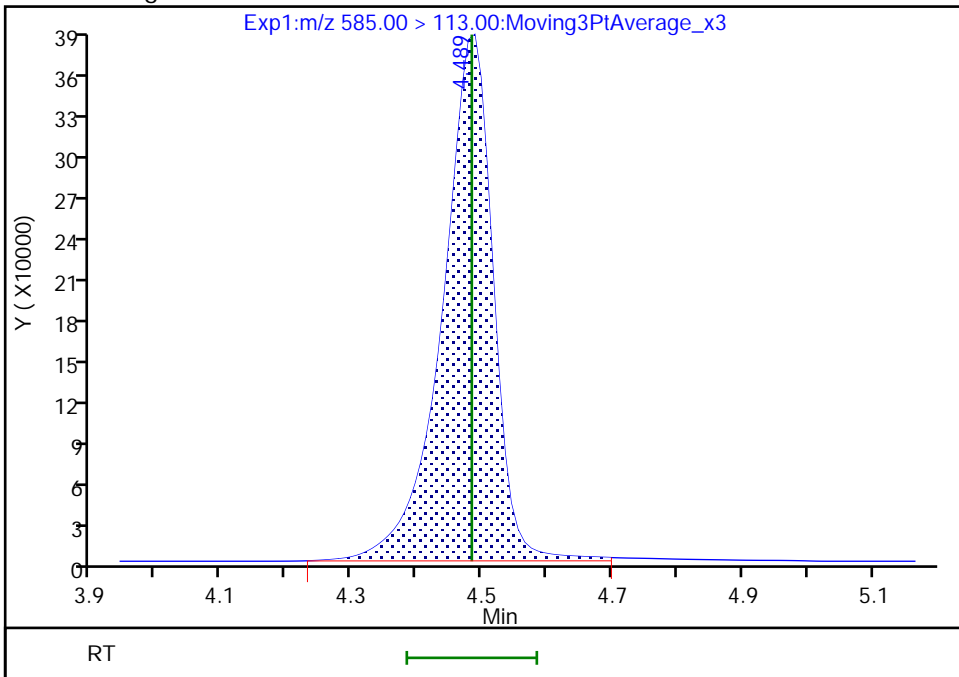
RT: 4.49
Area: 2073375
Amount: 2.743888
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 2059941
Amount: 2.931745
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:02
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

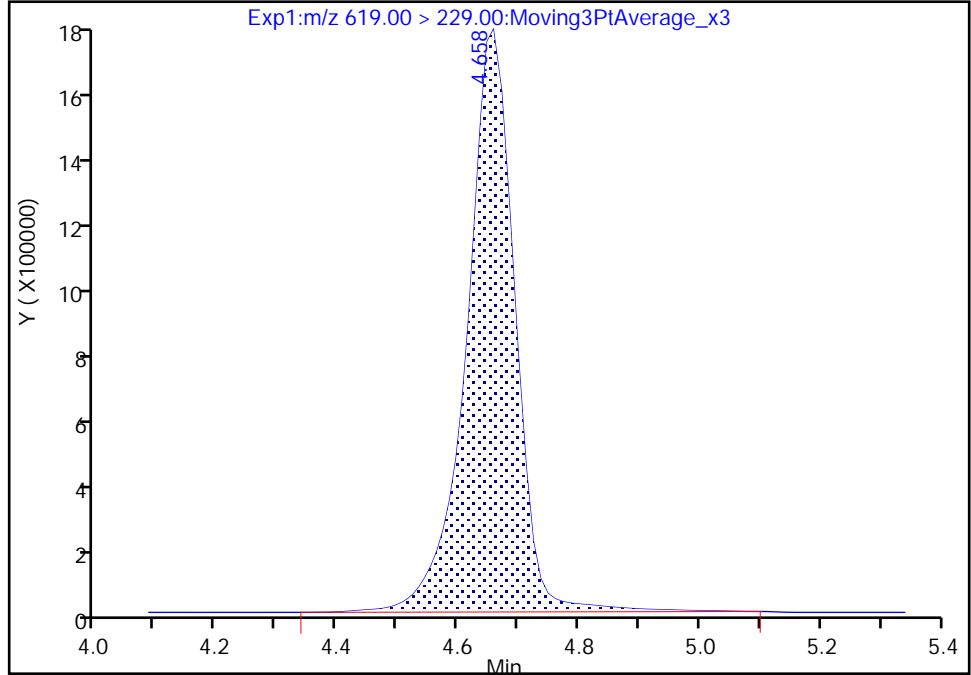
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

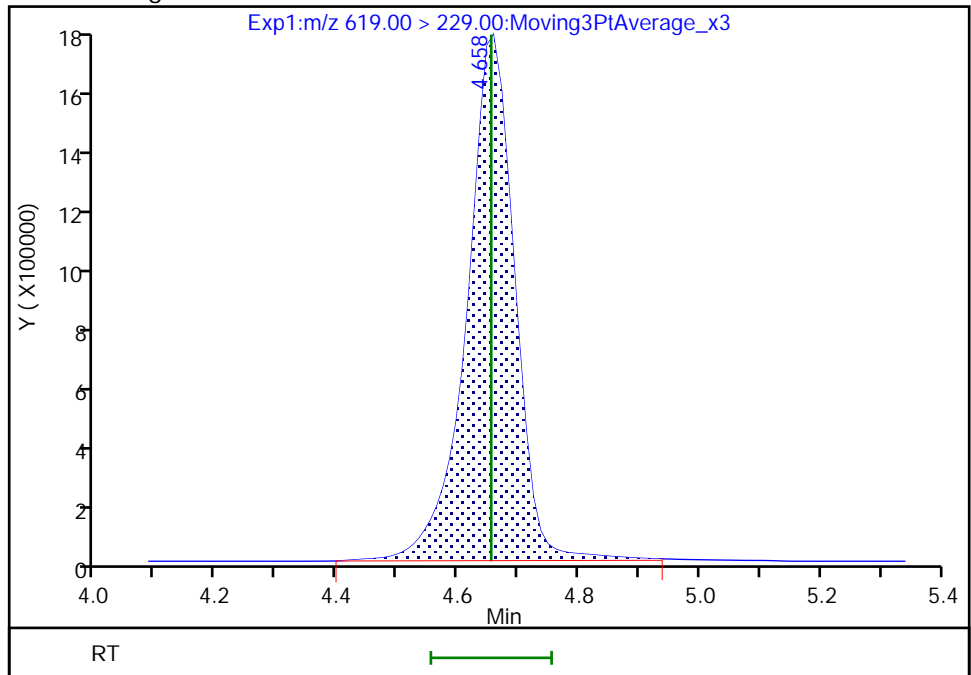
RT: 4.66
Area: 9465999
Amount: 37.324808
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 9417379
Amount: 36.136929
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:07
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

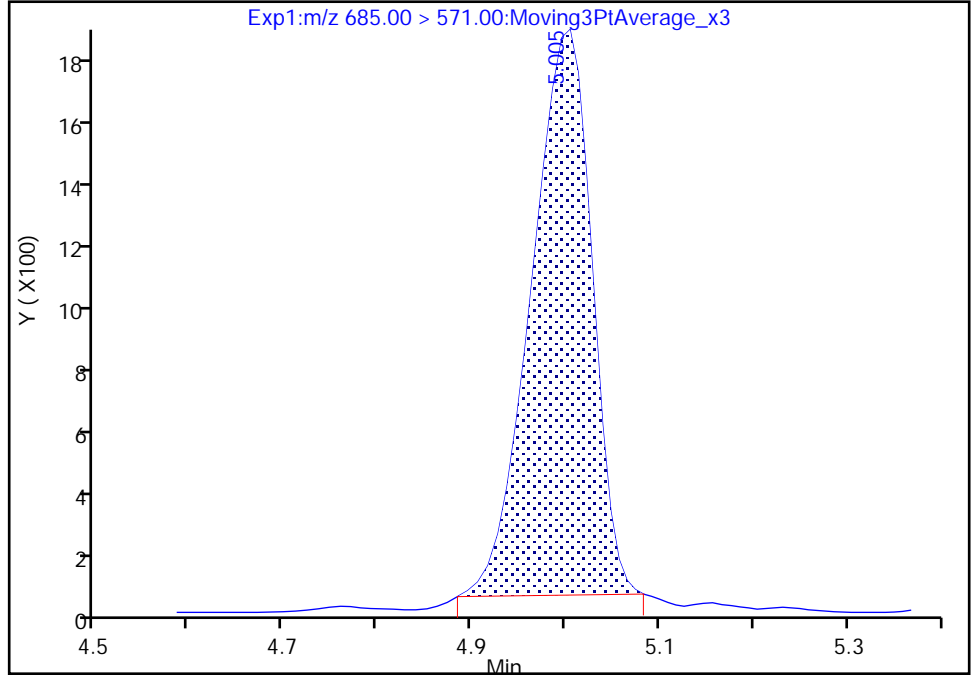
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

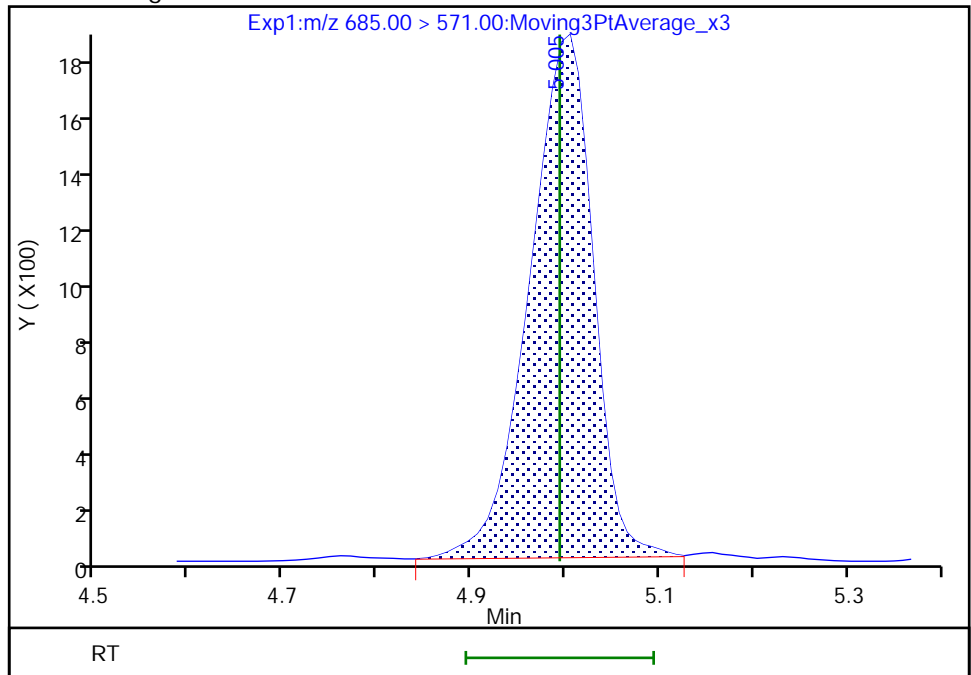
RT: 5.00
Area: 7879
Amount: 0.589638
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 8465
Amount: 0.591290
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:14
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Jun-2022 13:04:16 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:53 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:03:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.064	4.061	0.003	0.909	4544165	8.41	94.5	7282	M
2 BFS_A3B									
519.00 > 113.00	4.140	4.138	0.002	0.926	5363405	9.46	95.0	200	
3 BFS_B3									M
553.00 > 345.00	4.297	4.296	0.001	0.961	11020475	31.2	98.4	739	M
4 BFS_A2B2									
569.00 > 229.00	4.397	4.397	0.0	0.984	21133838	69.8	101	493681	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.469	4.468	0.001	0.881	773603	4.99	99.8	2316	
5 BFS_A4B									M
585.00 > 113.00	4.488	4.484	0.004	1.004	4510215	5.83	106	628	M
7 BFS_AB3									
619.00 > 229.00	4.658	4.655	0.003	1.042	19995143	70.5	94.7	186442	
8 BFS_A3B2									
635.00 > 113.00	4.760	4.758	0.002	1.065	6861654	13.5	103	2004	
9 BFS_B4									
669.00 > 461.00	4.896	4.888	0.008	1.095	2757789	17.4	101	1822	
10 BFS_A2B3									M
685.00 > 571.00	4.996	4.994	0.002	1.118	21014	1.33	102	353	M
* 11 13C2 PFOA									
415.00 > 370.00	5.075	5.074	0.001		4788966	5.00		3063	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d

Injection Date: 01-Jun-2022 13:04:16

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

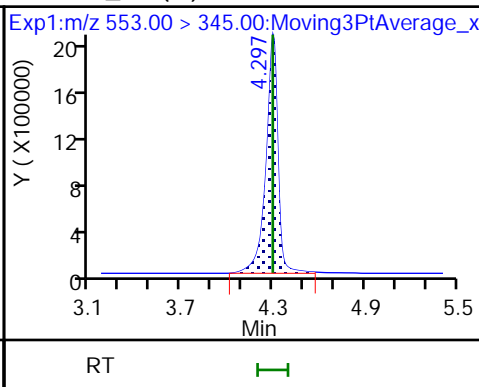
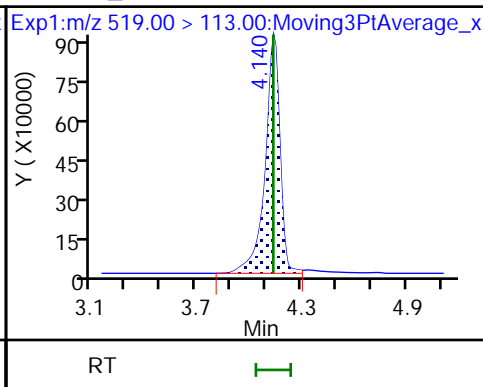
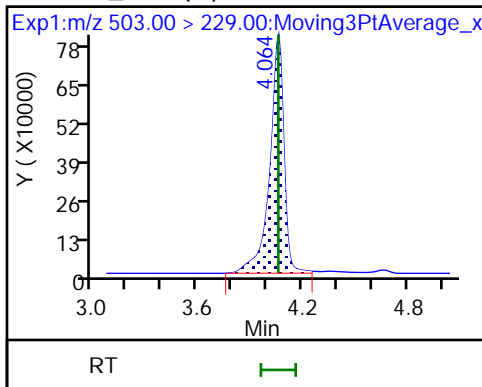
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B

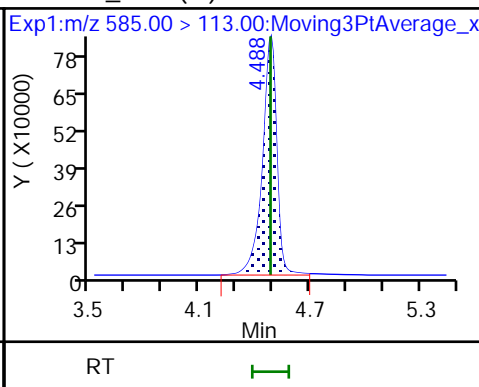
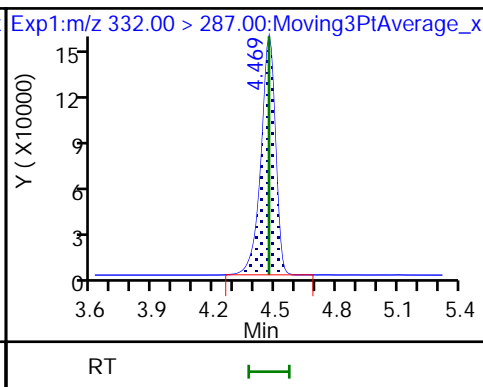
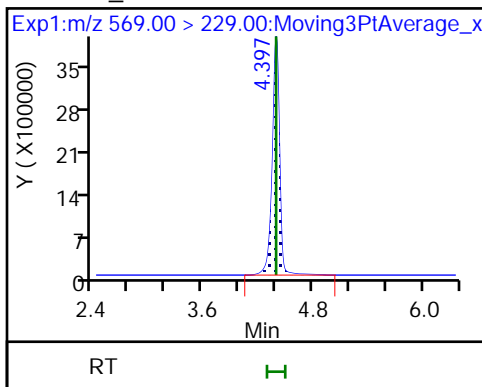
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

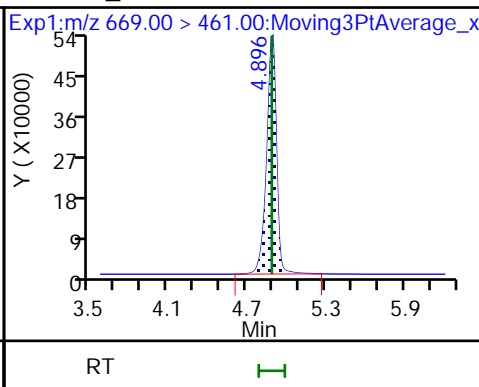
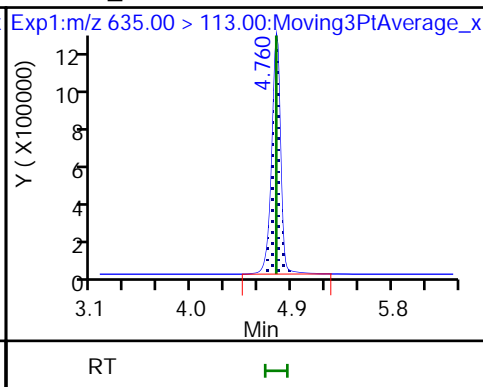
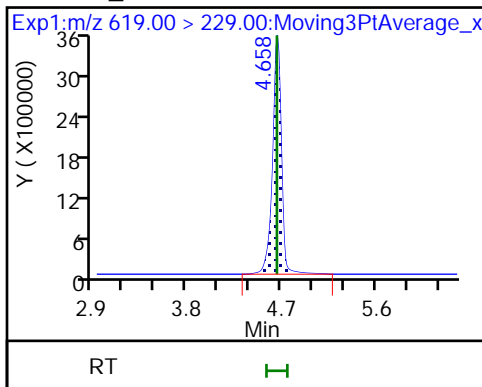
5 BFS_A4B (M)



7 BFS_AB3

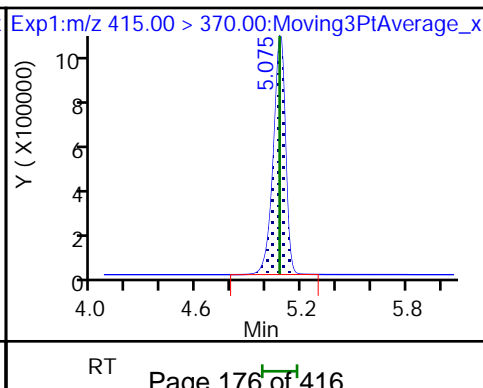
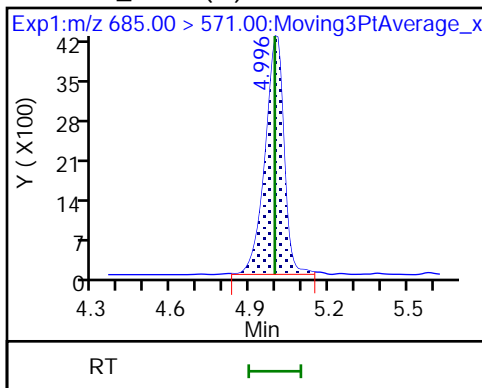
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

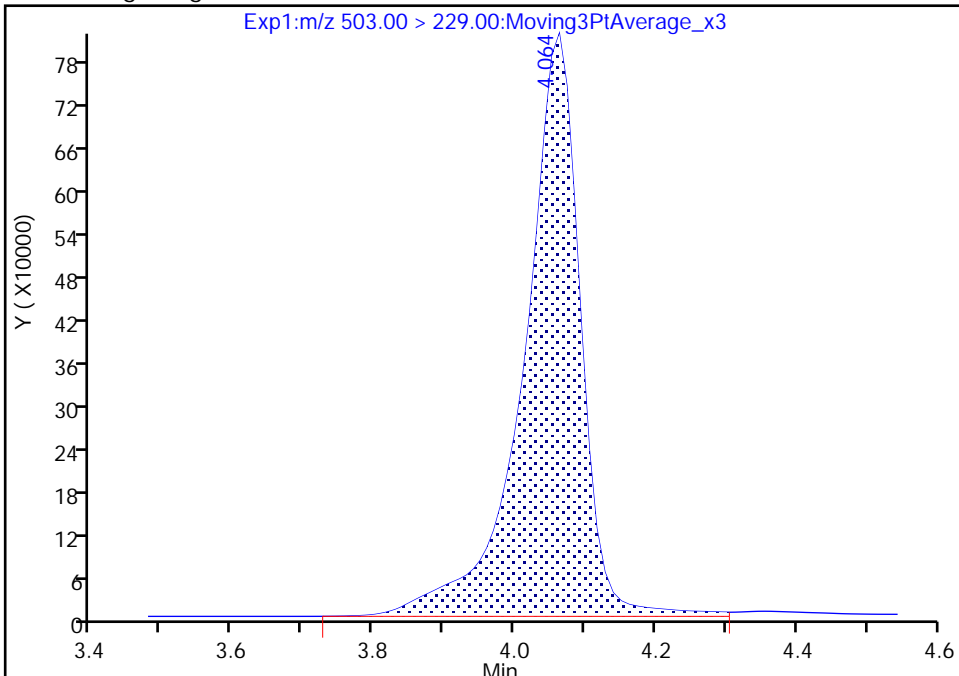
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

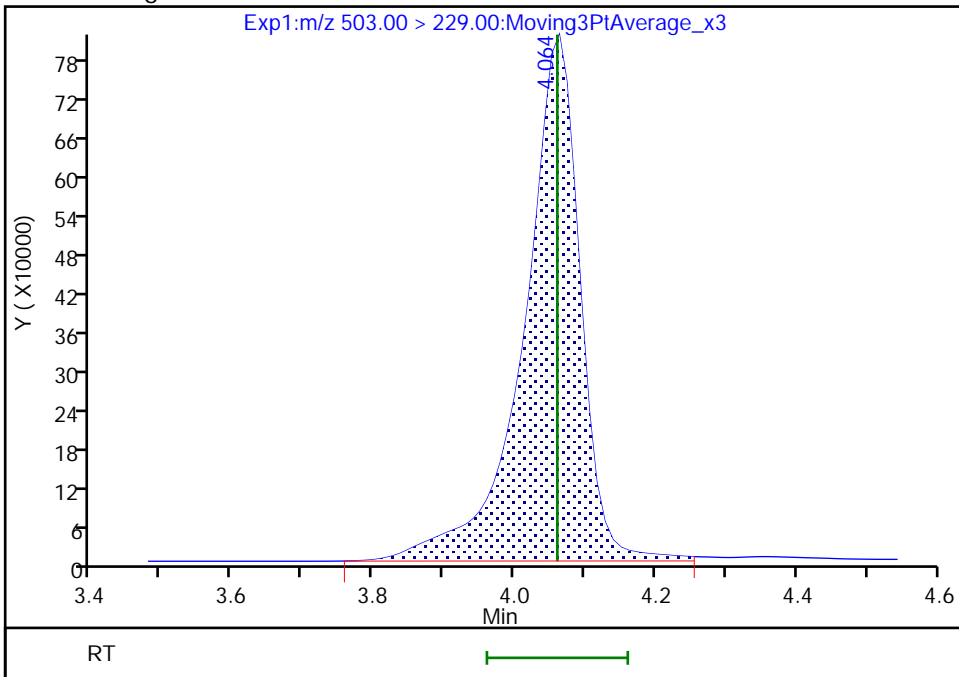
RT: 4.06
Area: 4573102
Amount: 8.975256
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 4544165
Amount: 8.412030
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:36
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

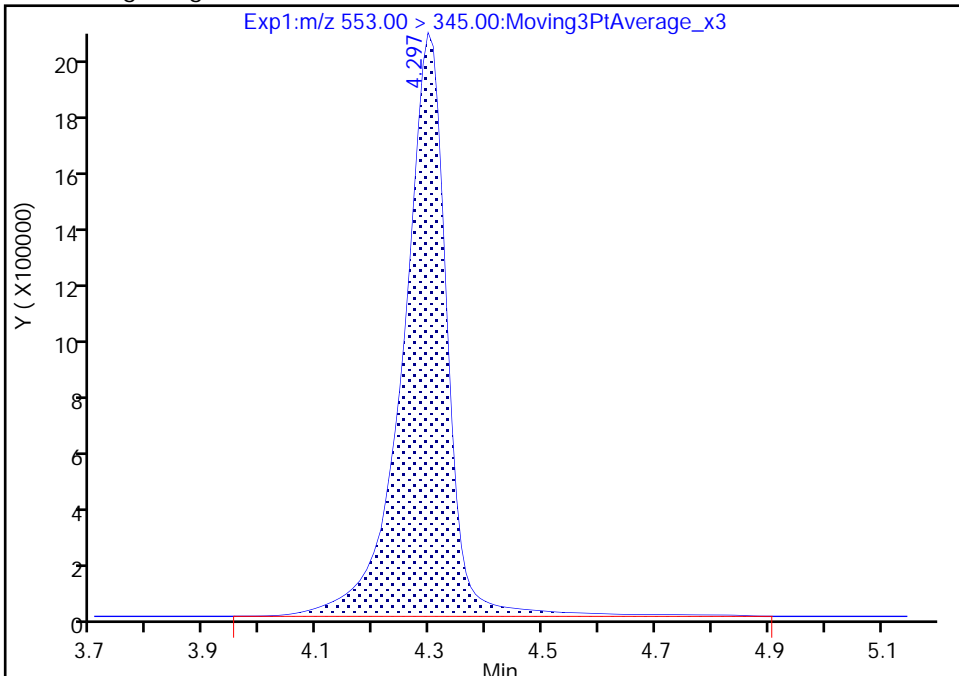
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

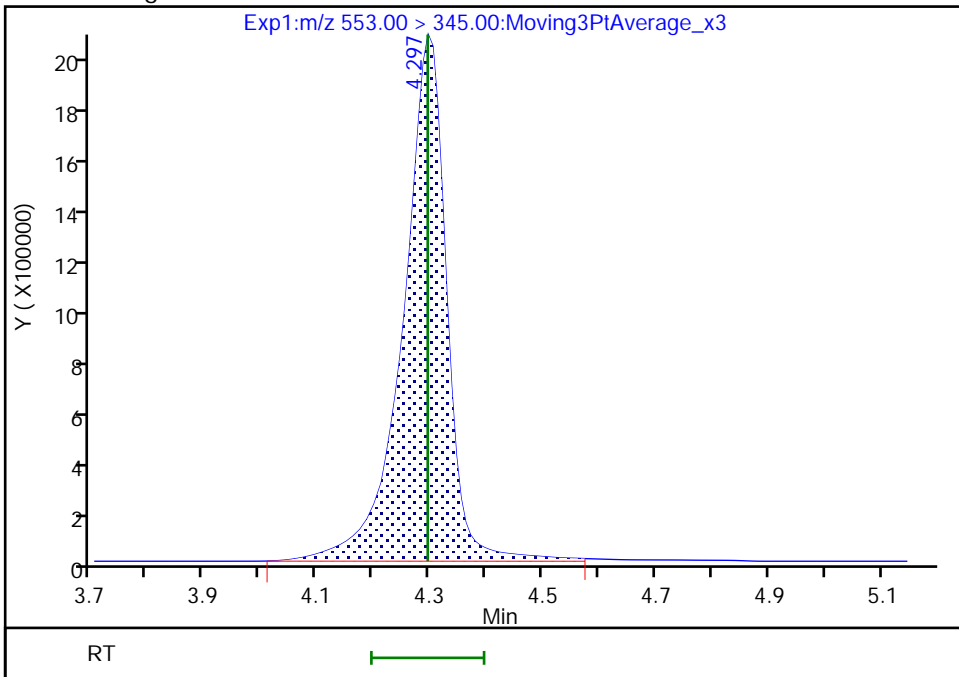
RT: 4.30
Area: 11119401
Amount: 31.102452
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 11020475
Amount: 31.179246
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

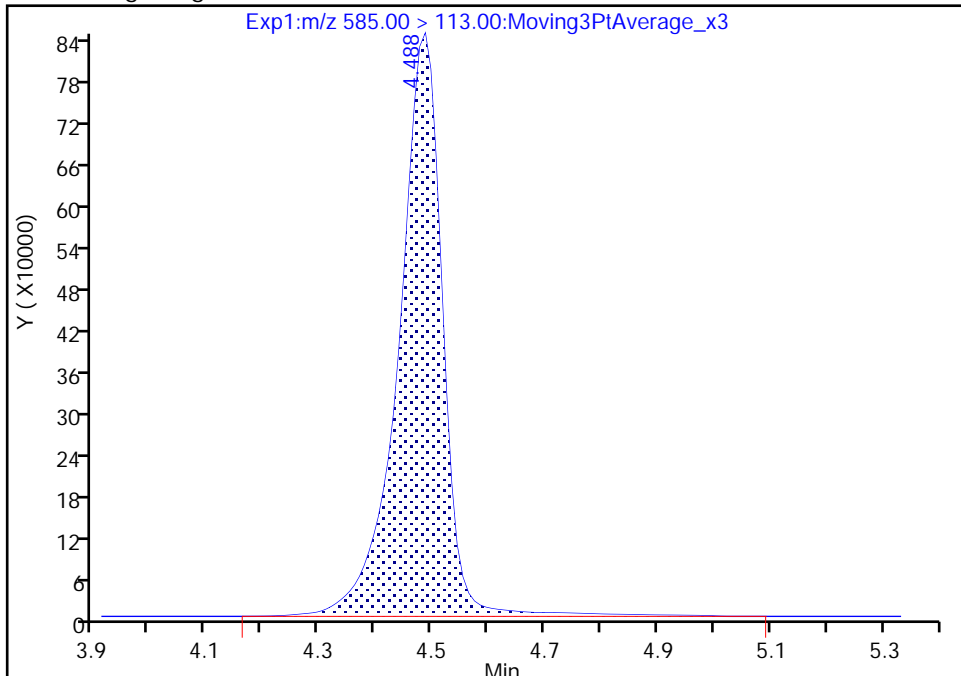
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

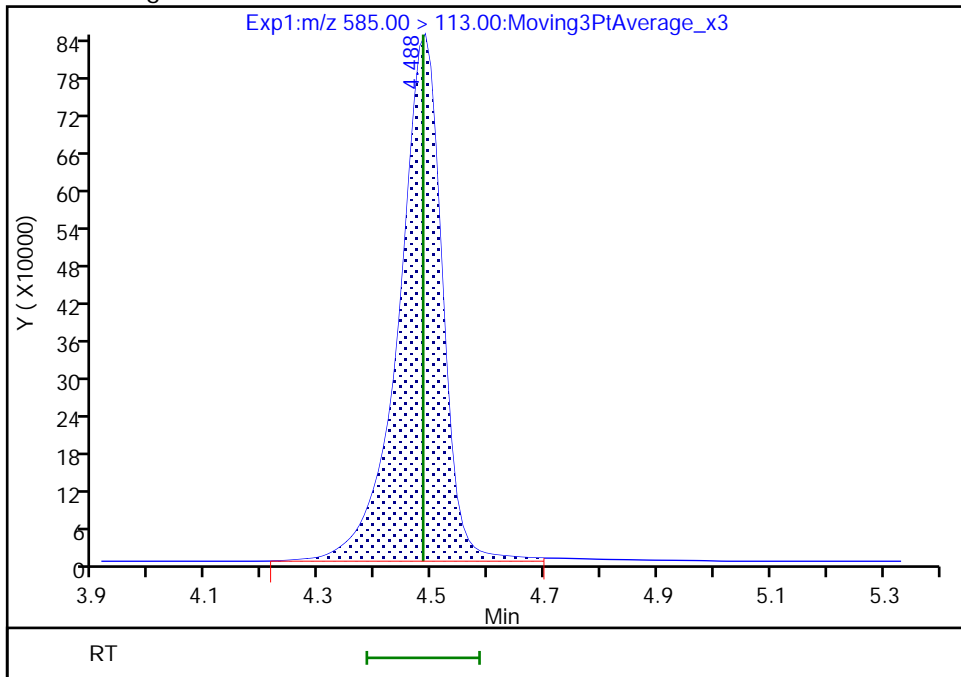
RT: 4.49
Area: 4561734
Amount: 5.490396
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 4510215
Amount: 5.827718
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:56
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

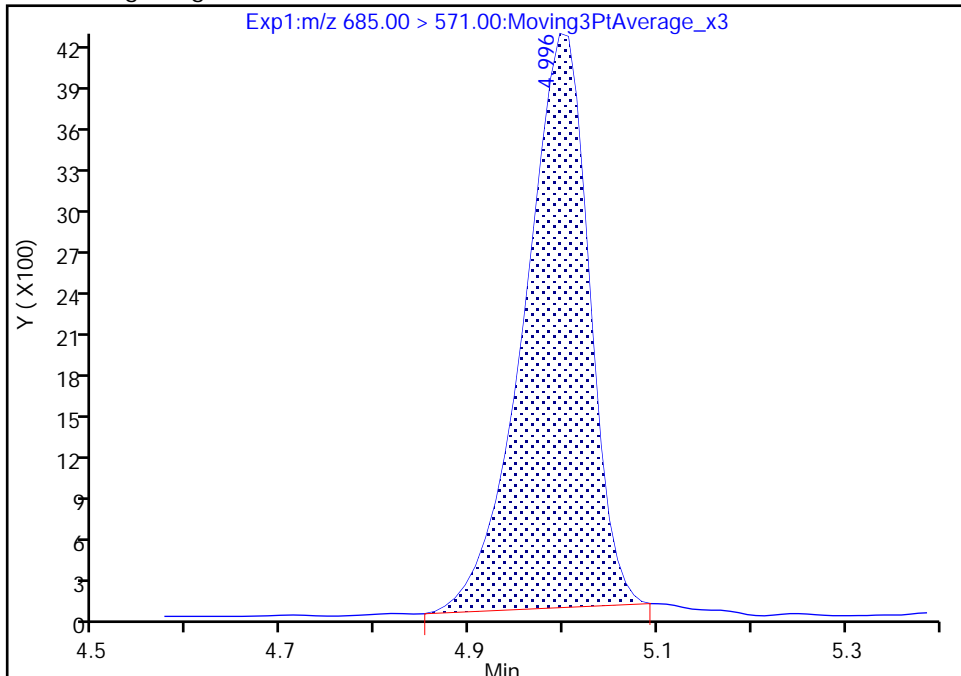
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

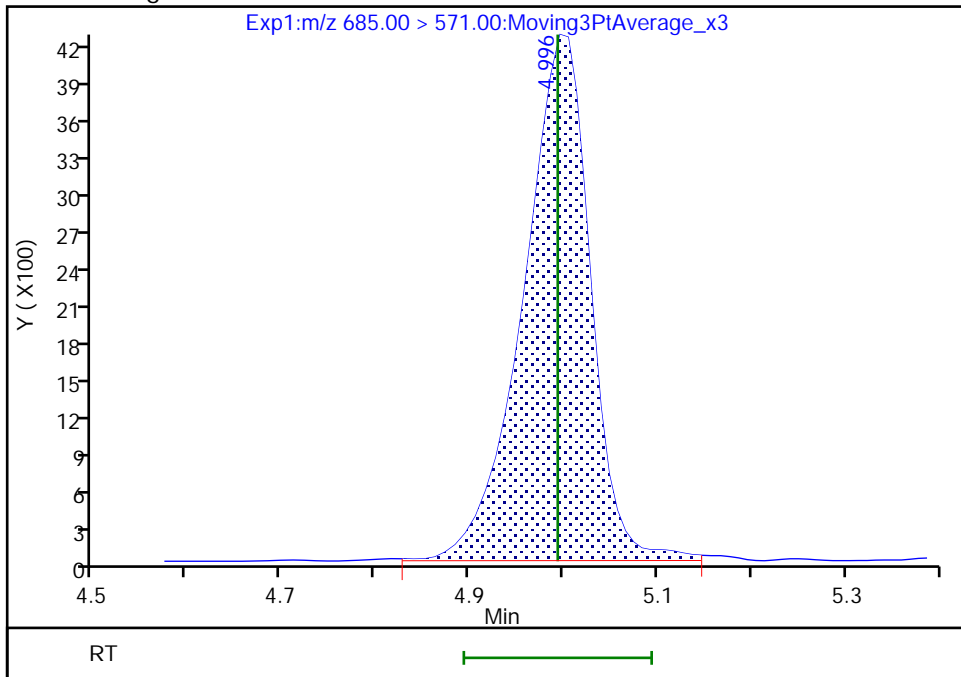
RT: 5.00
Area: 20033
Amount: 1.336776
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 21014
Amount: 1.332637
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:04
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 180 of 416

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 01-Jun-2022 13:16:50 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:54 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:04:24

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									
503.00 > 229.00	4.059	4.061	-0.002	0.908	9020531	17.7	99.1	9605	
2 BFS_A3B									
519.00 > 113.00	4.135	4.138	-0.003	0.926	10427670	19.4	97.6	196	
3 BFS_B3									M
553.00 > 345.00	4.295	4.296	-0.001	0.961	20537472	62.1	98.0	1154	M
4 BFS_A2B2									M
569.00 > 229.00	4.395	4.397	-0.002	0.984	38460675	138.7	99.9	825	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.468	4.468	0.0	0.880	731839	5.04	101	2154	
5 BFS_A4B									M
585.00 > 113.00	4.487	4.484	0.003	1.004	8315704	11.4	103	611	M
7 BFS_AB3									
619.00 > 229.00	4.657	4.655	0.002	1.042	37324836	142.5	95.7	260810	
8 BFS_A3B2									M
635.00 > 113.00	4.759	4.758	0.001	1.065	13059911	27.1	103	986	M
9 BFS_B4									
669.00 > 461.00	4.885	4.888	-0.003	1.093	5433932	36.2	105	1991	
10 BFS_A2B3									M
685.00 > 571.00	4.997	4.994	0.003	1.118	36499	2.45	93.4	438	M
* 11 13C2 PFOA									
415.00 > 370.00	5.075	5.074	0.001		4482375	5.00		2762	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS8_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d

Injection Date: 01-Jun-2022 13:16:50

Instrument ID: 30733

Lims ID: IC CAL 8

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

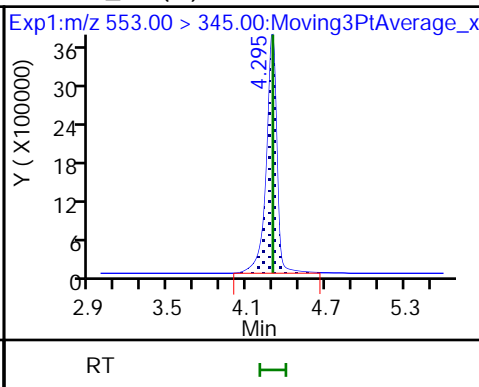
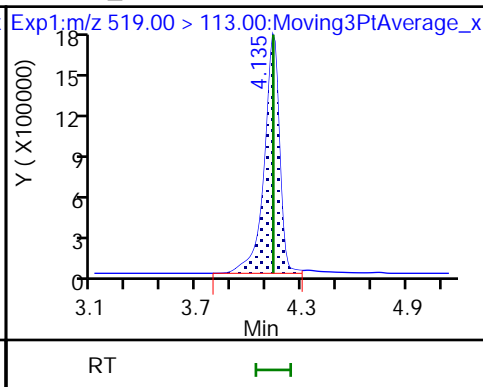
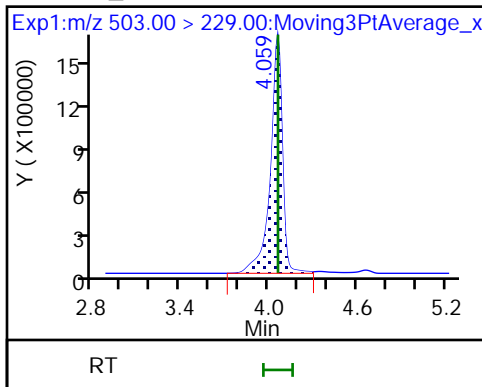
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

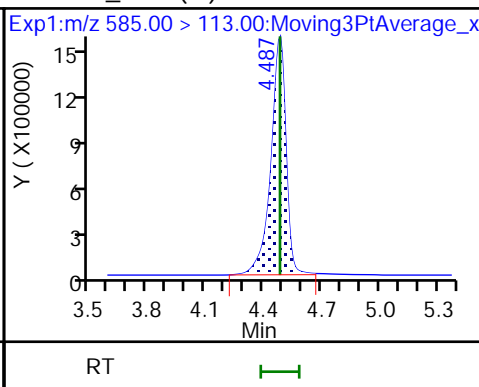
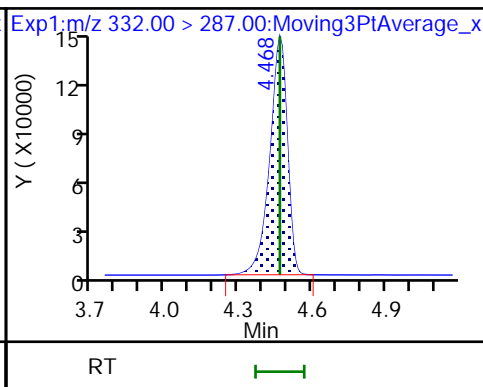
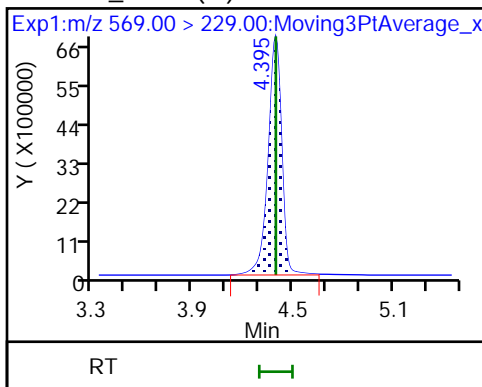
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

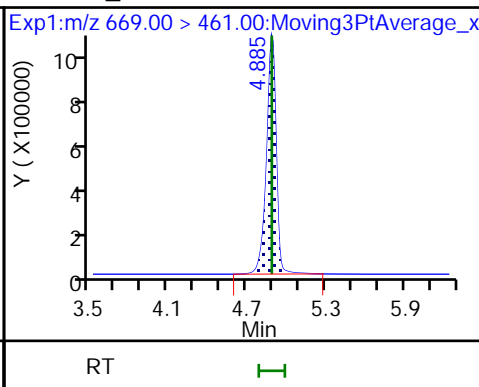
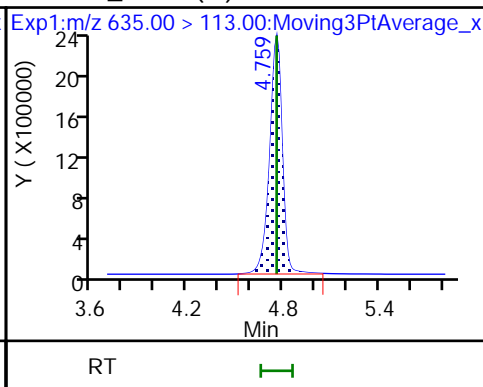
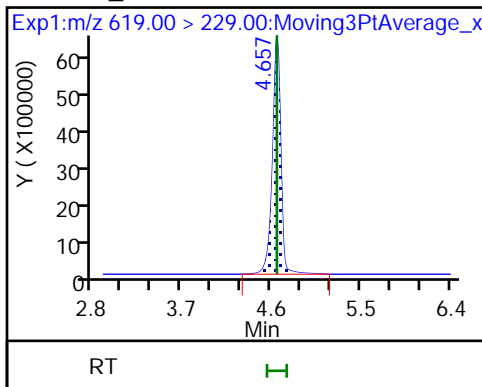
5 BFS_A4B (M)



7 BFS_AB3

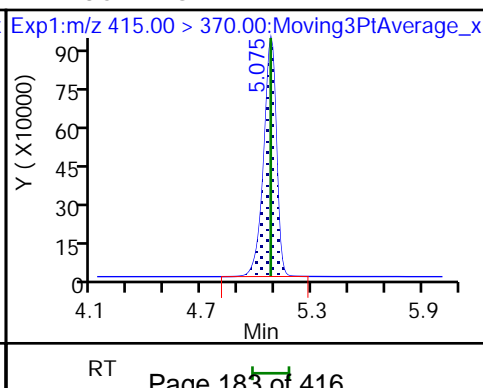
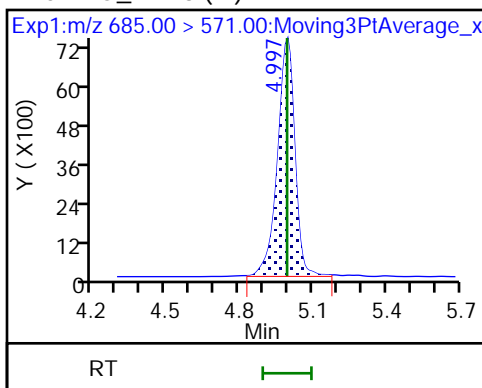
8 BFS_A3B2 (M)

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

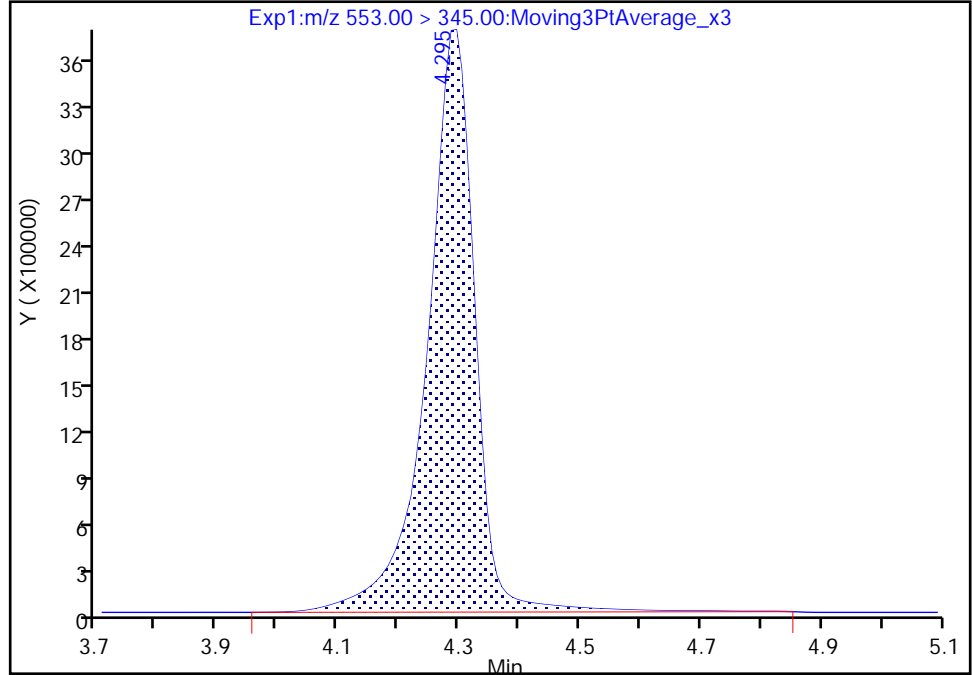
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

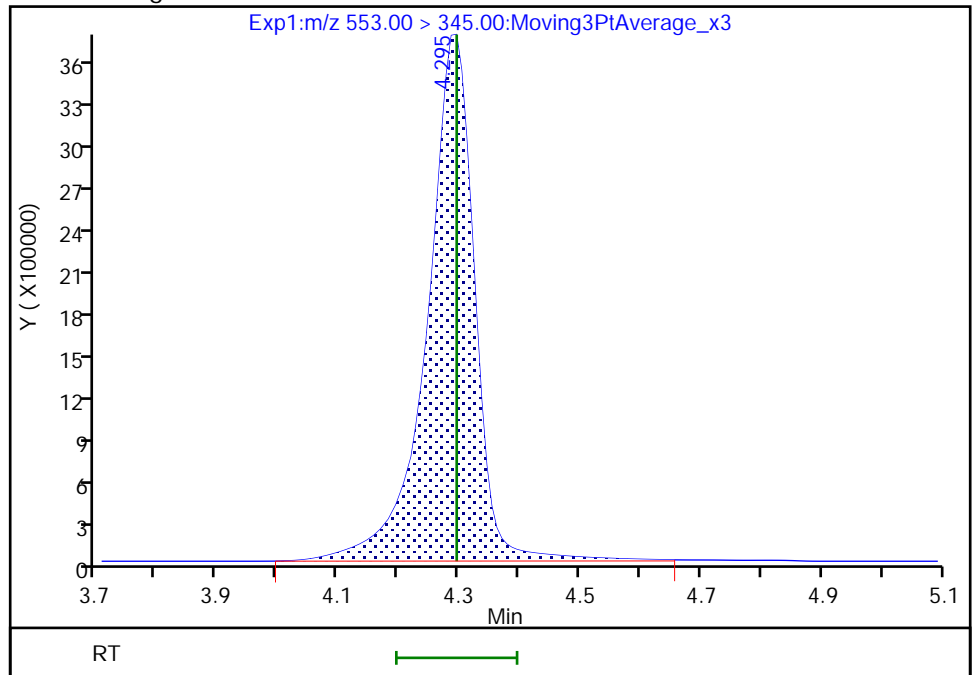
RT: 4.30
Area: 20560685
Amount: 62.255852
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 20537472
Amount: 62.125003
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:33
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

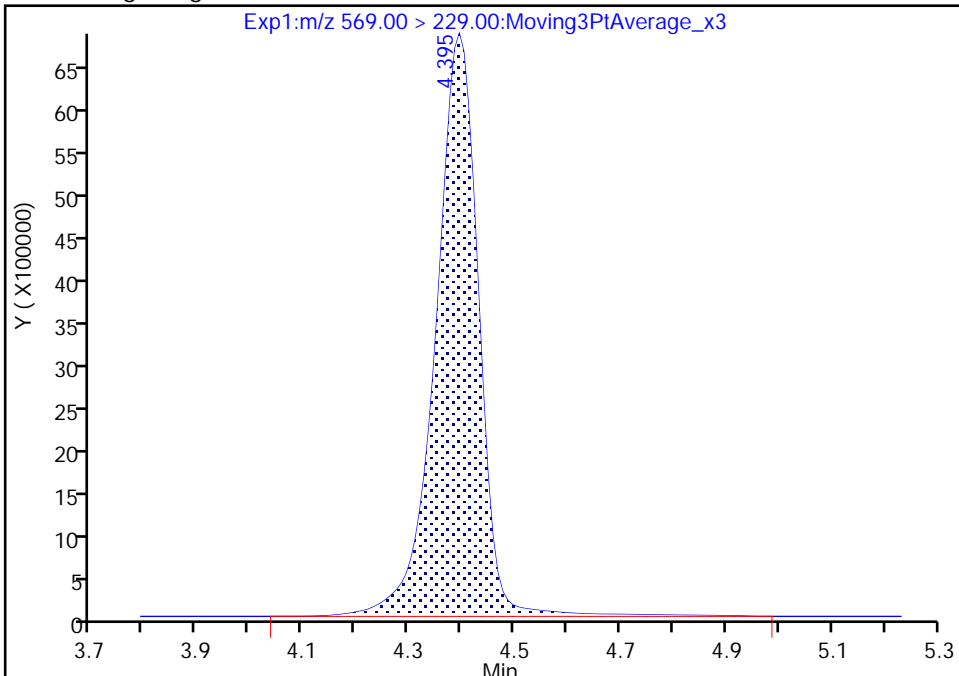
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

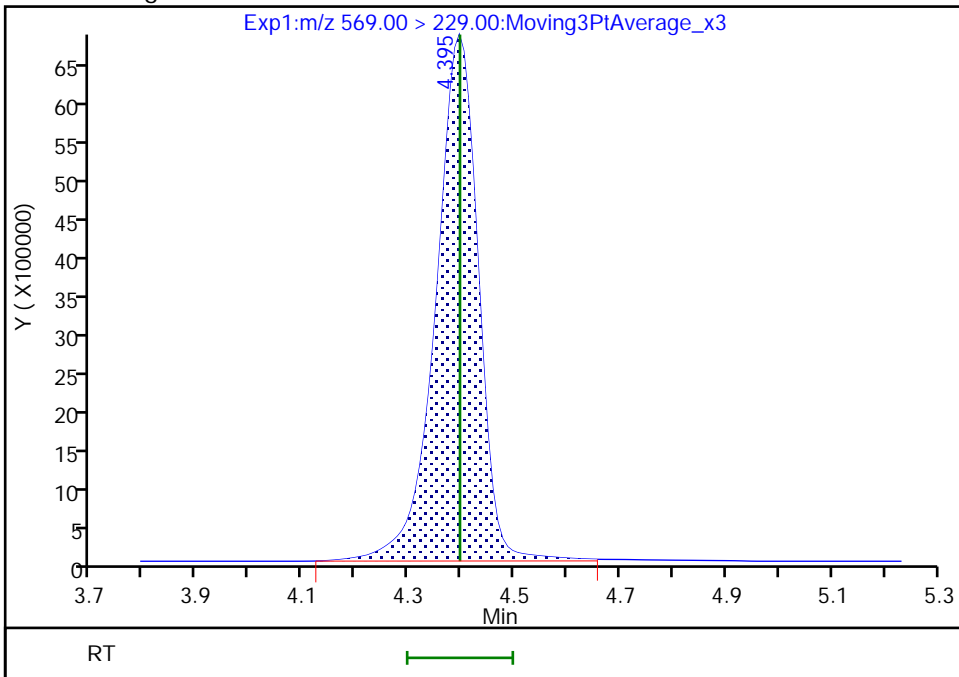
RT: 4.40
Area: 38816010
Amount: 135.3863
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 38460675
Amount: 138.7399
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:38
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

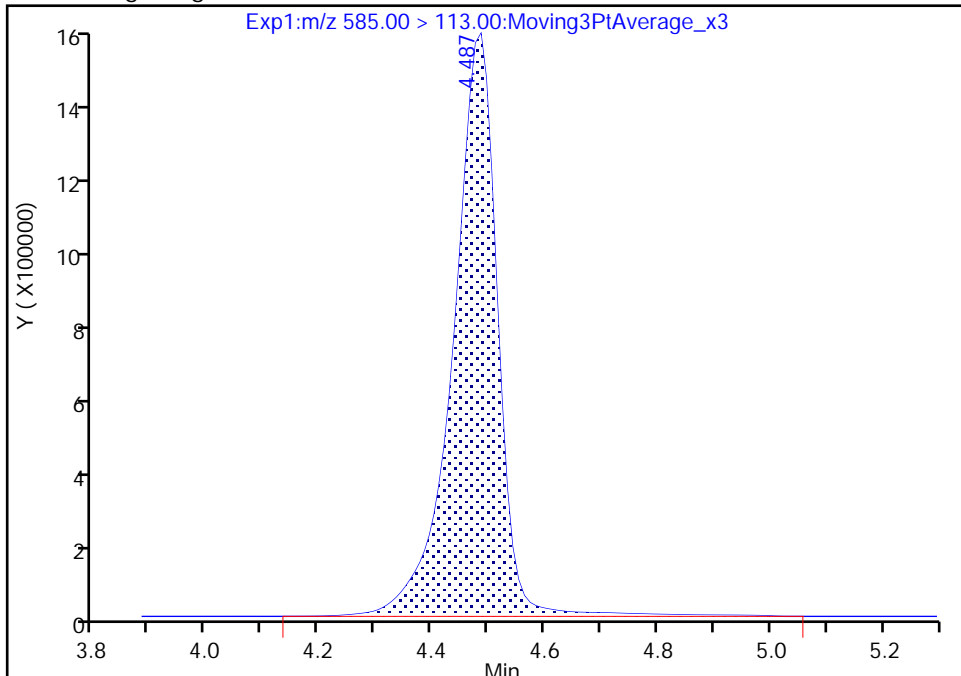
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

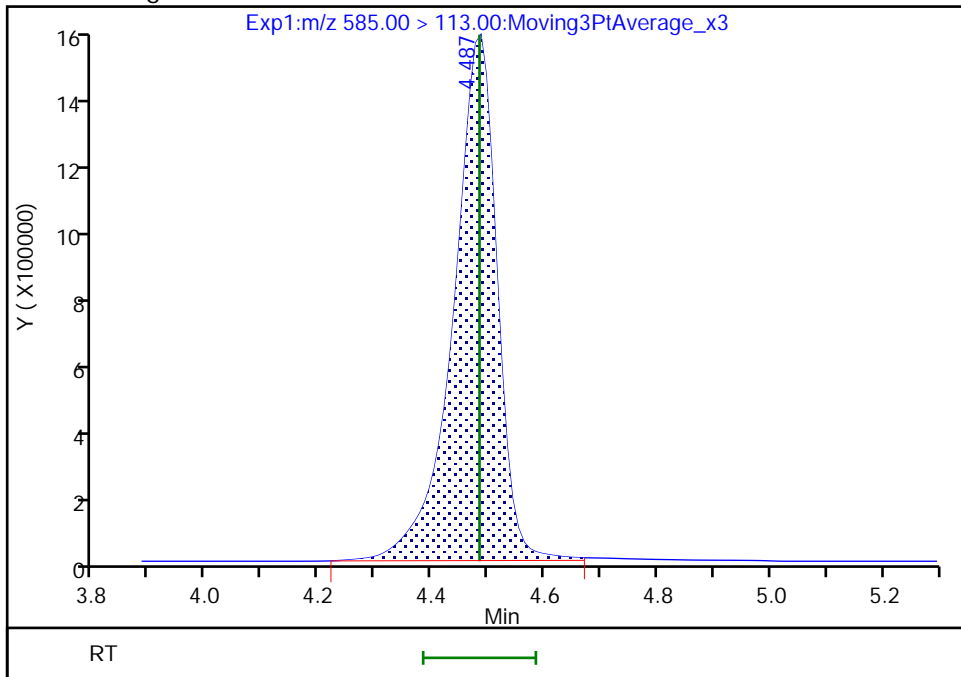
RT: 4.49
Area: 8465497
Amount: 10.921275
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 8315704
Amount: 11.358028
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:42
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

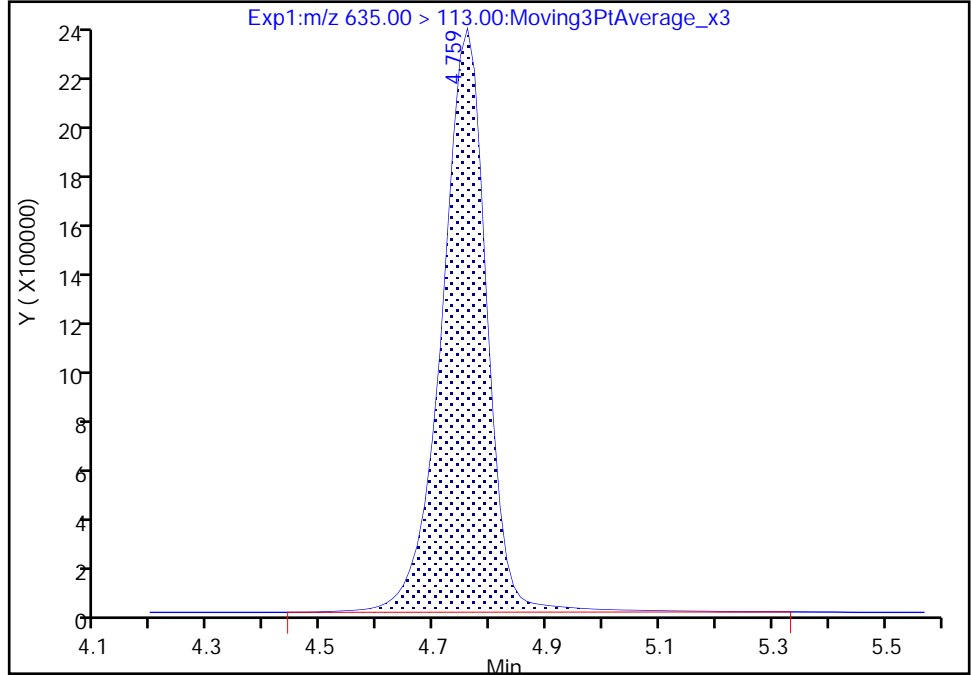
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

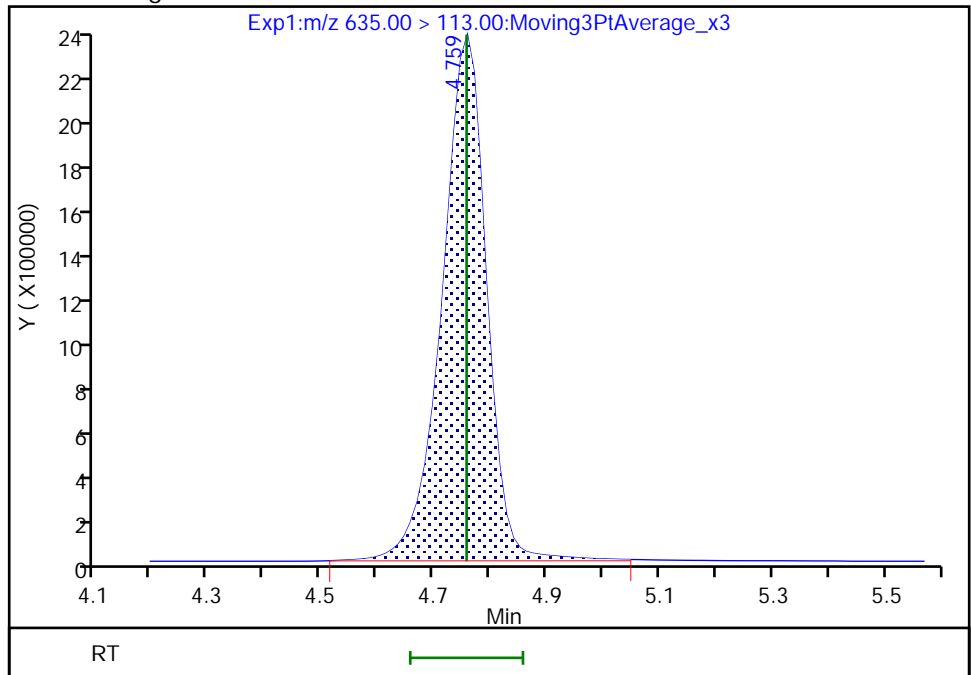
RT: 4.76
Area: 13132084
Amount: 26.119313
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 13059911
Amount: 27.101608
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:51
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

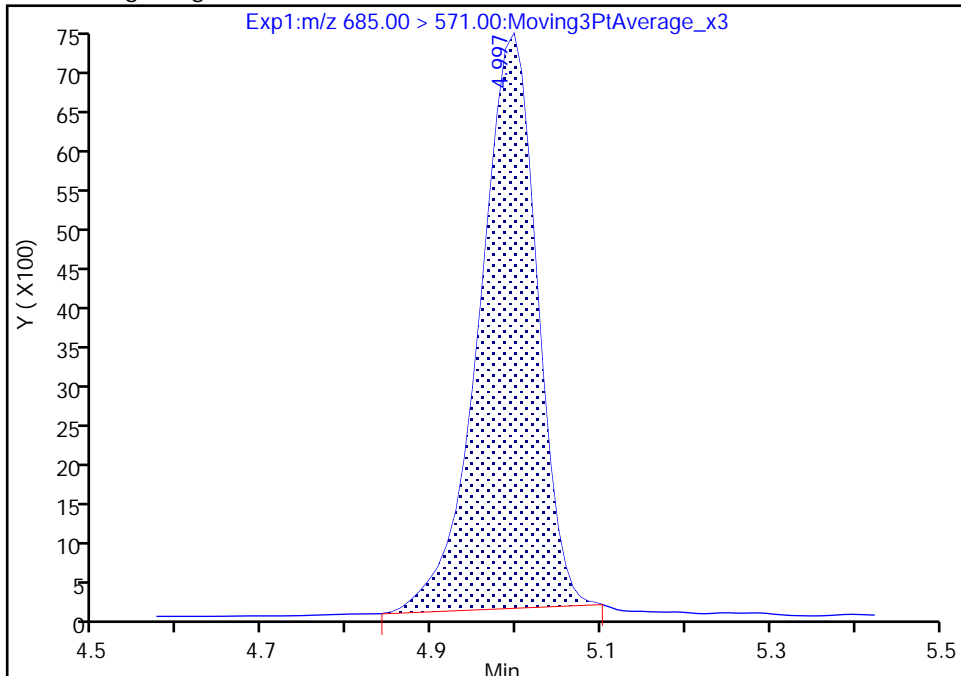
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

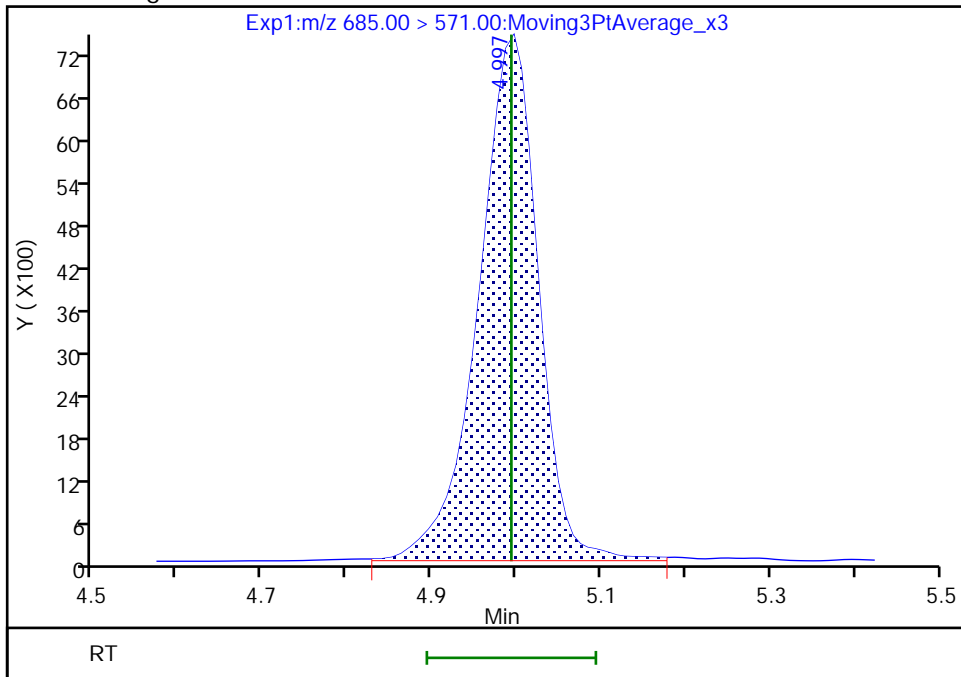
RT: 5.00
Area: 34860
Amount: 2.506315
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 36499
Amount: 2.446734
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:22
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 01-Jun-2022 13:29:27 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:55 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:05:08

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.054	4.061	-0.007	0.907	16231123	37.0	104	9585
2 BFS_A3B	519.00 > 113.00	4.129	4.138	-0.009	0.924	18838535	40.9	103	252
3 BFS_B3	553.00 > 345.00	4.289	4.296	-0.007	0.959	35984718	130.0	103	598 M
4 BFS_A2B2	569.00 > 229.00	4.389	4.397	-0.008	0.982	63365922	286.4	103	929 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.470	4.468	0.002	0.881	628418	4.57	91.5	1606
5 BFS_A4B	585.00 > 113.00	4.480	4.484	-0.004	1.002	14922849	23.7	108	678 M
7 BFS_AB3	619.00 > 229.00	4.648	4.655	-0.007	1.040	64603397	303.9	102	510355
8 BFS_A3B2	635.00 > 113.00	4.749	4.758	-0.009	1.062	22534422	54.5	104	2462
9 BFS_B4	669.00 > 461.00	4.885	4.888	-0.003	1.093	9268536	71.9	104	3403
10 BFS_A2B3	685.00 > 571.00	4.997	4.994	0.003	1.118	69744	5.44	104	675 M
* 11 13C2 PFOA	415.00 > 370.00	5.075	5.074	0.001		4245679	5.00		2554

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS9_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d

Injection Date: 01-Jun-2022 13:29:27

Instrument ID: 30733

Lims ID: IC CAL 9

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

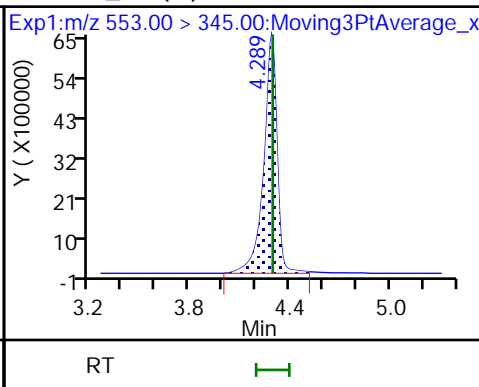
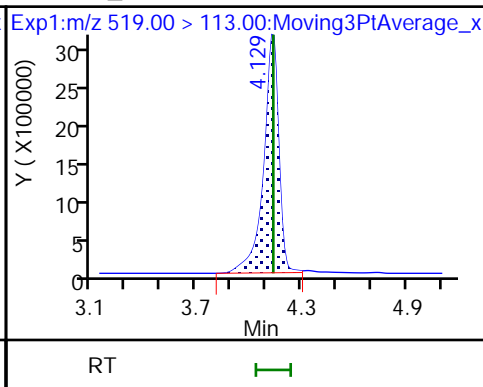
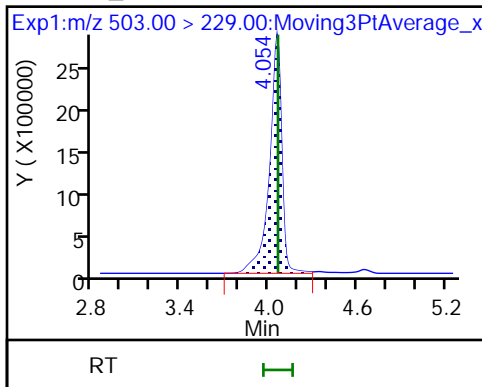
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

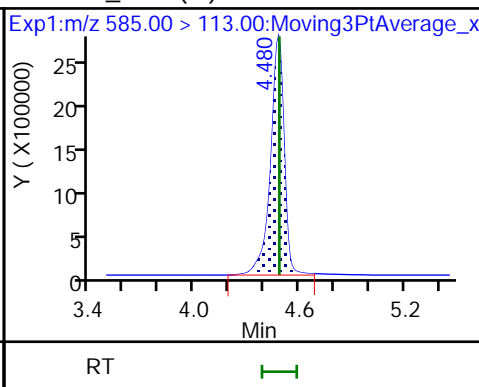
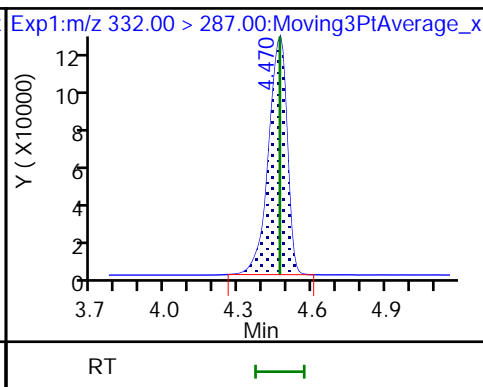
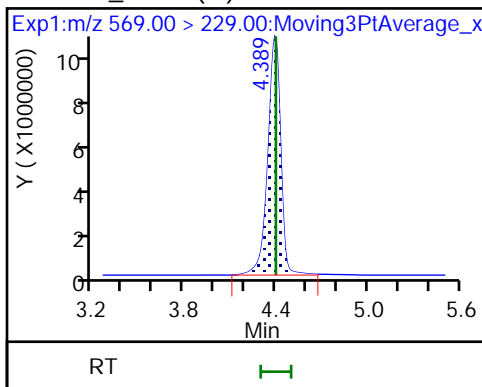
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

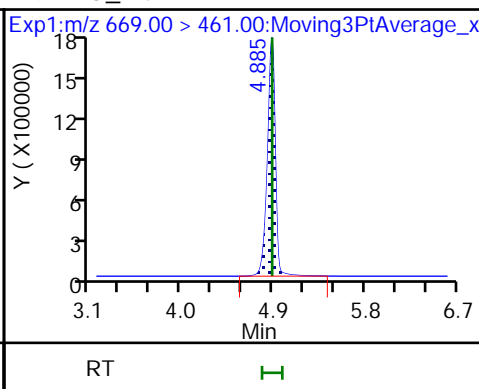
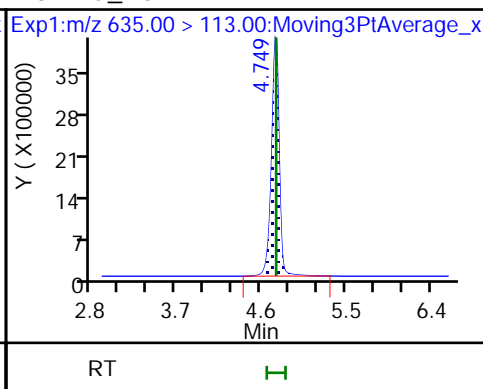
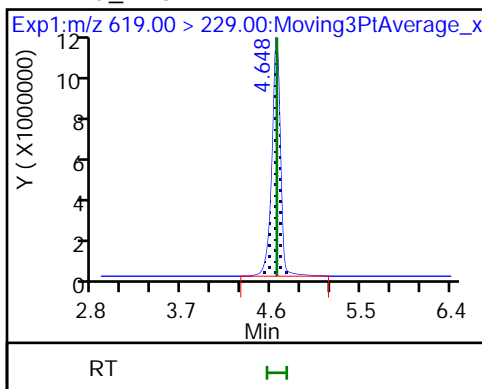
5 BFS_A4B (M)



7 BFS_AB3

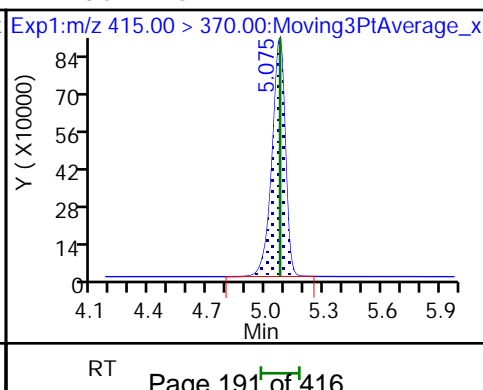
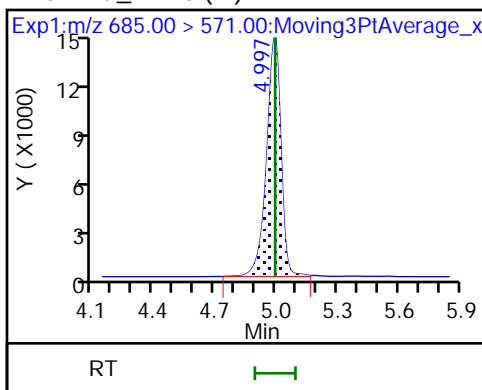
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

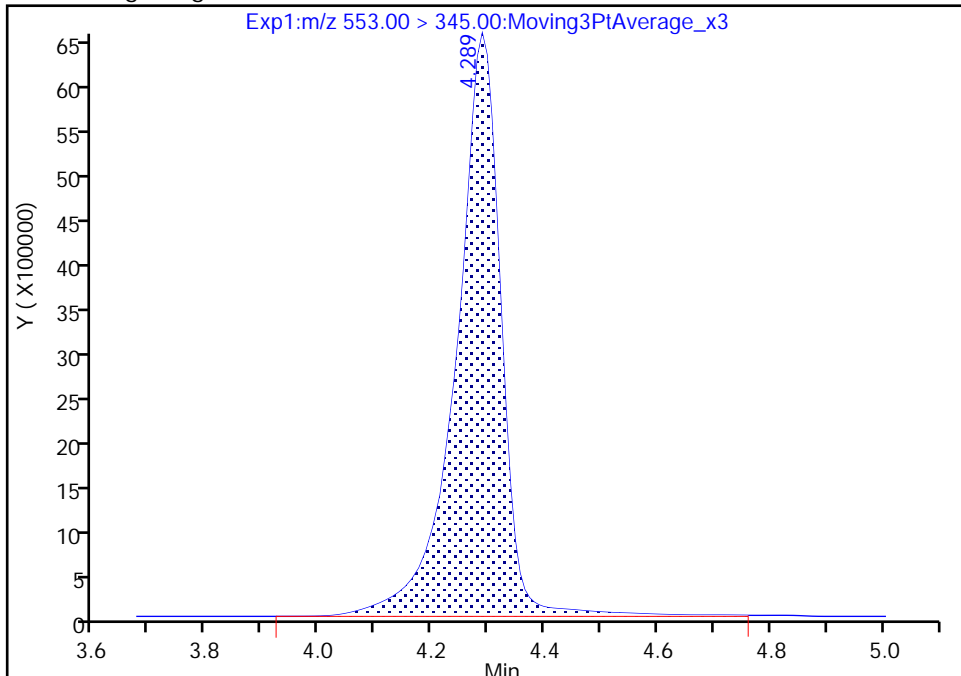
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

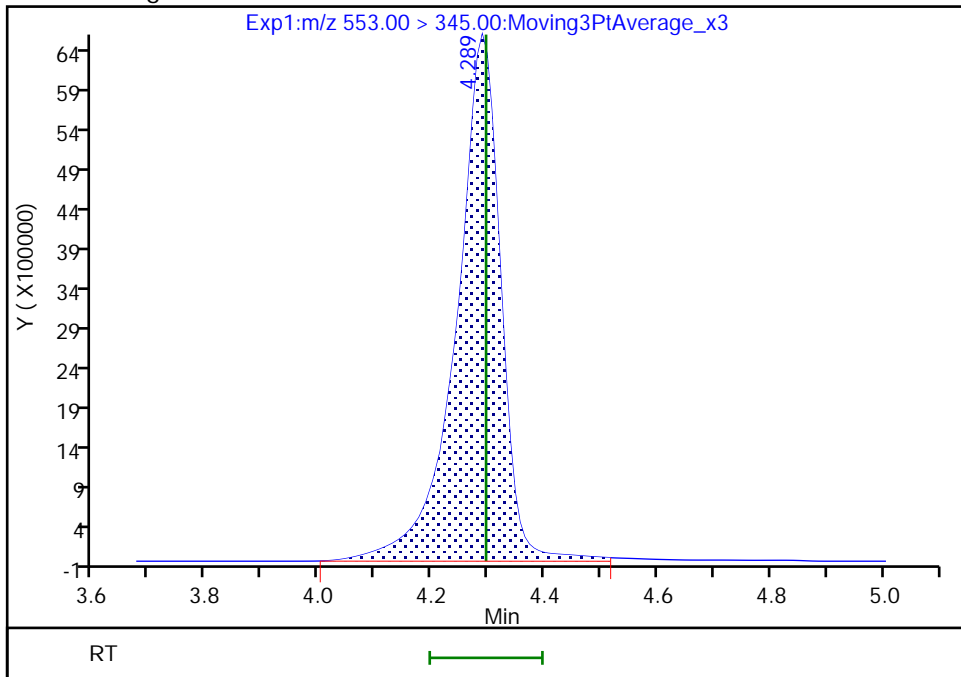
RT: 4.29
Area: 36302055
Amount: 127.4175
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 35984718
Amount: 130.0389
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:45
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

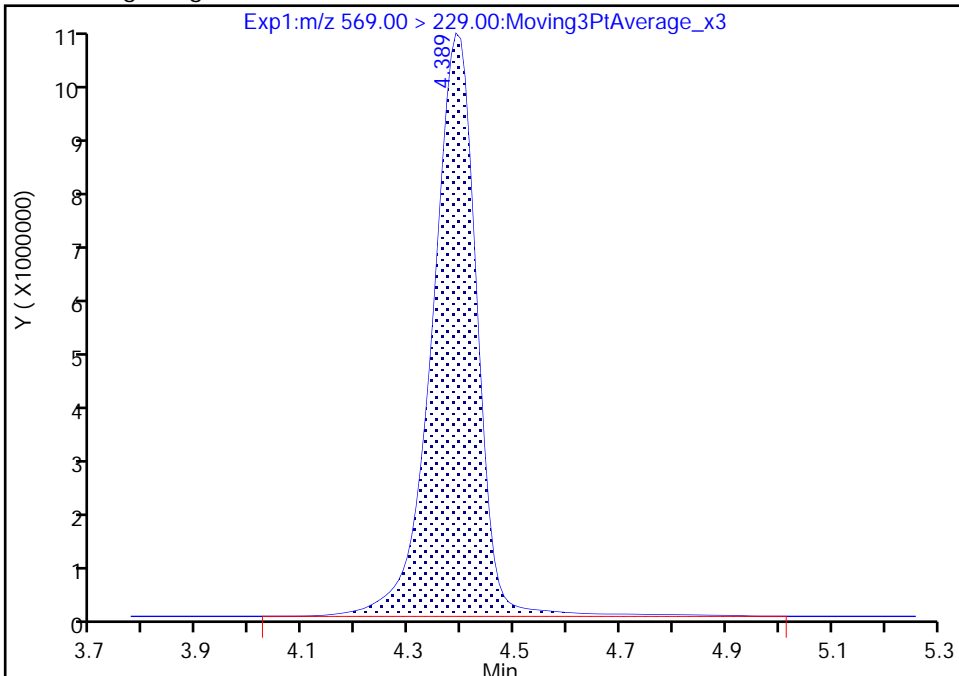
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

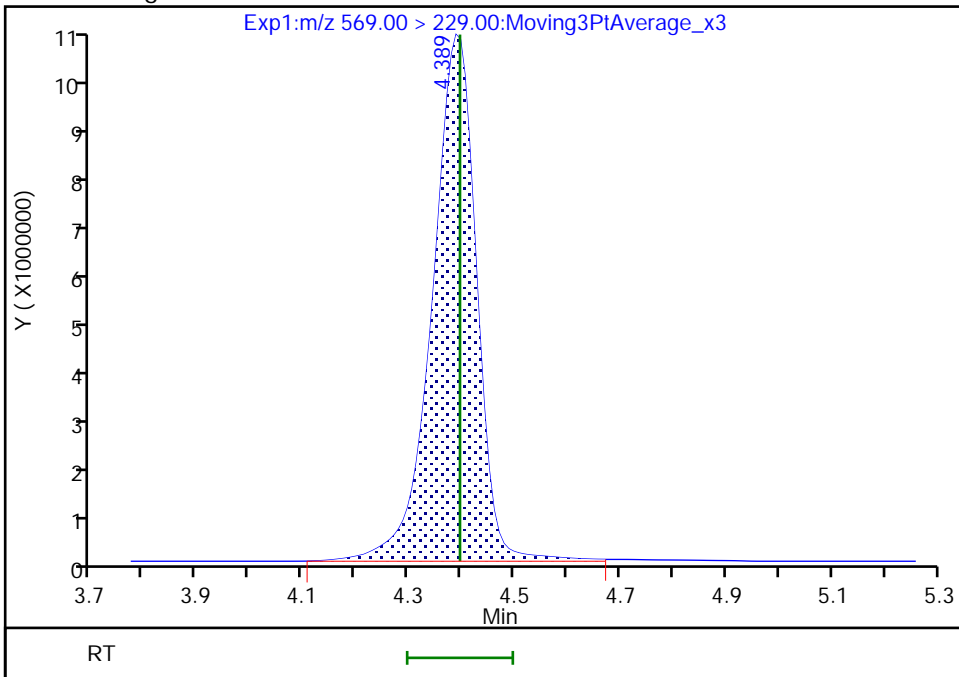
RT: 4.39
Area: 63778847
Amount: 268.8393
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 63365922
Amount: 286.3650
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:50
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

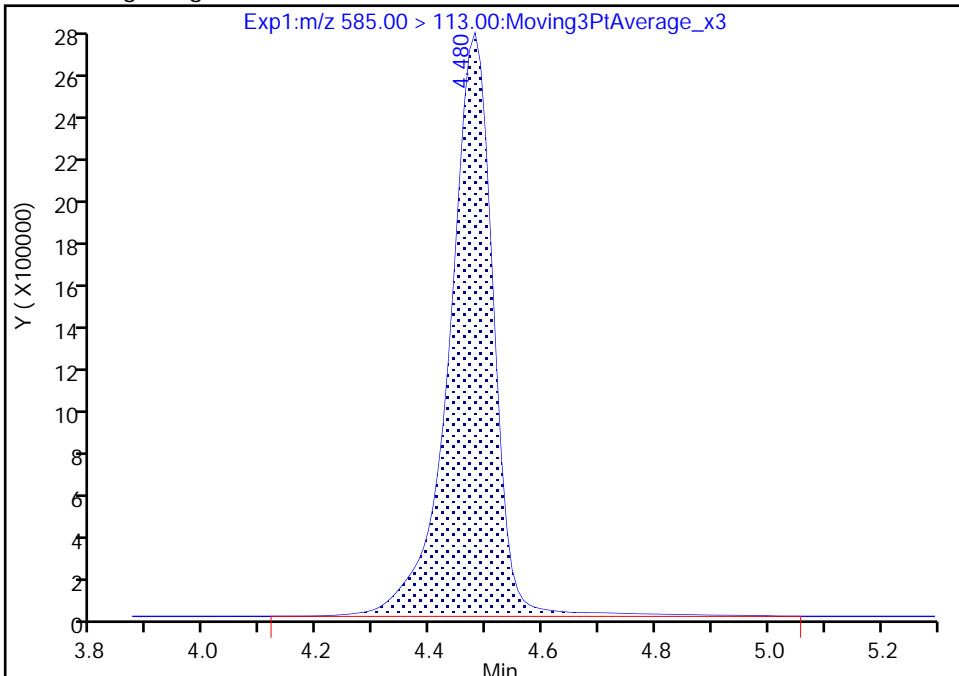
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

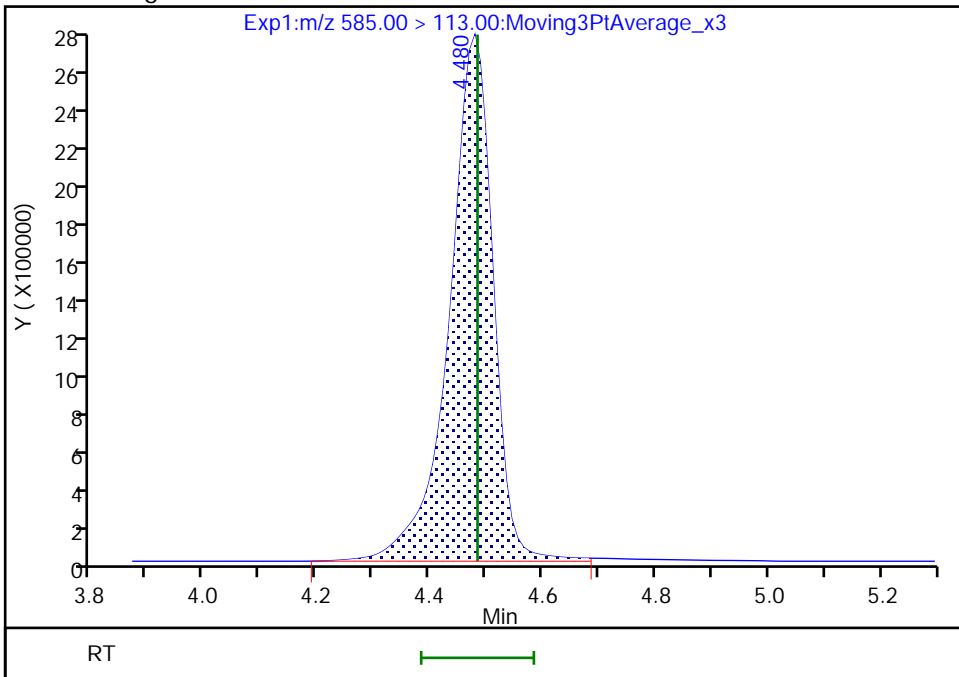
RT: 4.48
Area: 15084823
Amount: 22.421533
Amount Units: ng/ml

Processing Integration Results



RT: 4.48
Area: 14922849
Amount: 23.736822
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

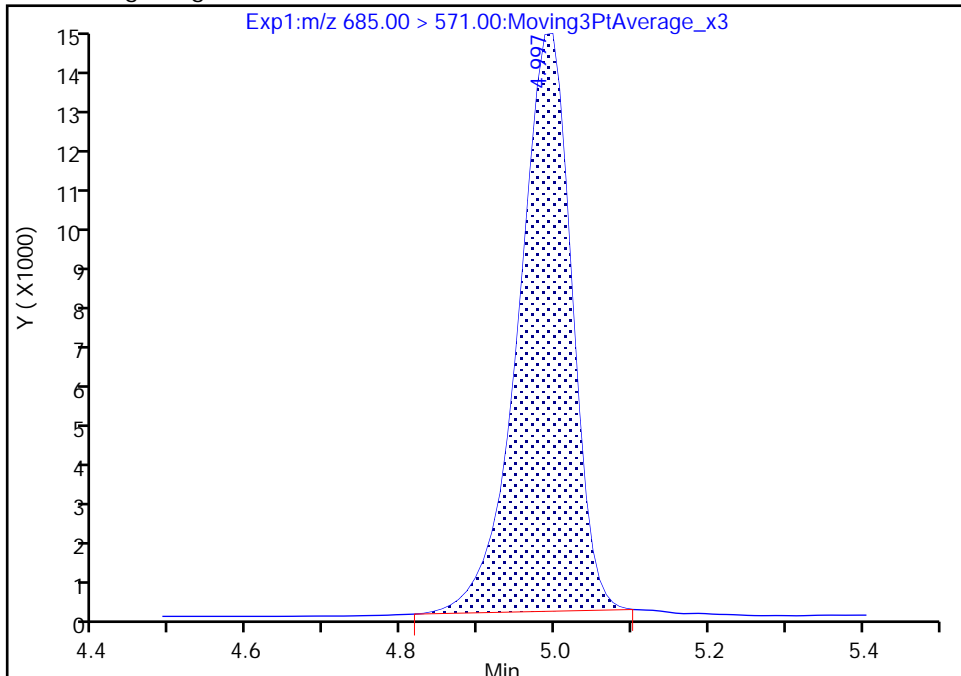
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

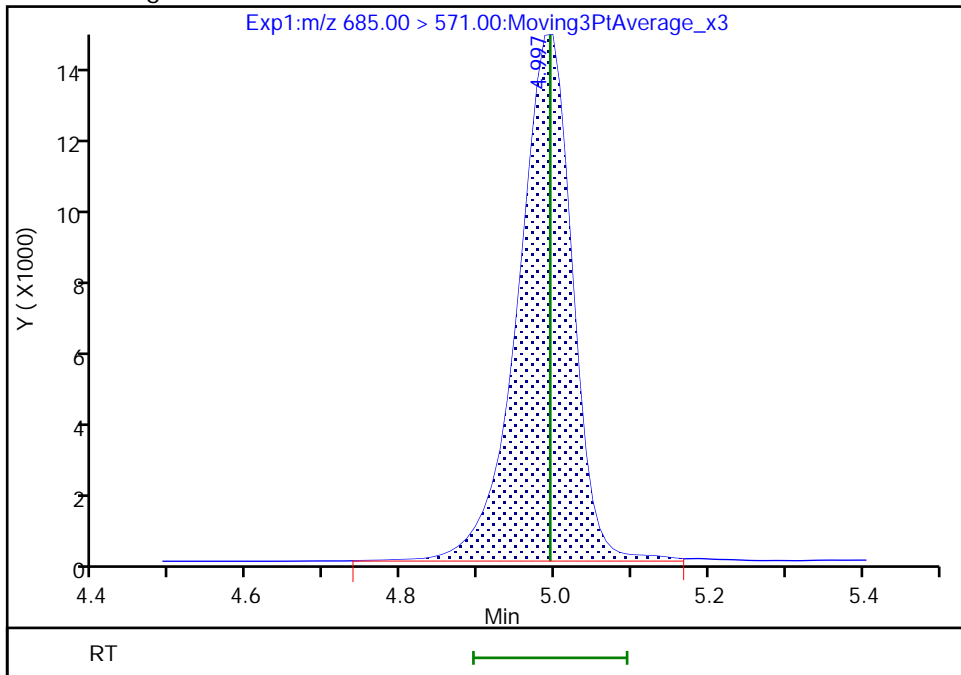
RT: 5.00
Area: 67325
Amount: 5.367389
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 69744
Amount: 5.444771
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:05:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 01-Jun-2022 13:42:07 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:05:35

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.066	4.061	0.005	0.907	41799671	88.9	99.8	13205
2 BFS_A3B	519.00 > 113.00	4.154	4.138	0.016	0.927	49360673	100.0	100	337
3 BFS_B3	553.00 > 345.00	4.307	4.296	0.011	0.961	86742054	314.4	99.2	380 M
4 BFS_A2B2	569.00 > 229.00	4.407	4.397	0.010	0.984	127841132	671.8	96.8	690
D 6 13C3 HFPO-DA	332.00 > 287.00	4.481	4.468	0.013	0.881	673694	4.53	90.5	1979
5 BFS_A4B	585.00 > 113.00	4.490	4.484	0.006	1.002	35203991	52.2	95.0	782 M
7 BFS_AB3	619.00 > 229.00	4.660	4.655	0.005	1.040	143461865	751.3	101	516710
8 BFS_A3B2	635.00 > 113.00	4.772	4.758	0.014	1.065	56276374	126.9	96.9	491406
9 BFS_B4	669.00 > 461.00	4.897	4.888	0.009	1.093	23106837	167.3	96.8	4849
10 BFS_A2B3	685.00 > 571.00	5.006	4.994	0.012	1.117	180193	13.1	100	614
* 11 13C2 PFOA	415.00 > 370.00	5.085	5.074	0.011		4598363	5.00		3020

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Injection Date: 01-Jun-2022 13:42:07

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

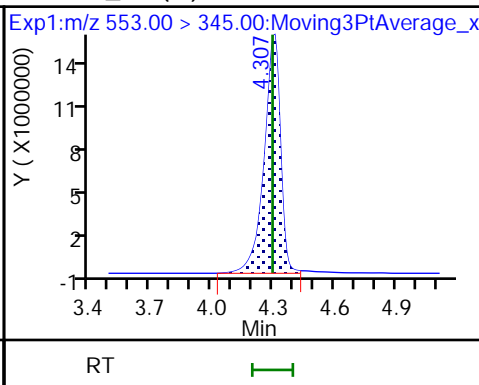
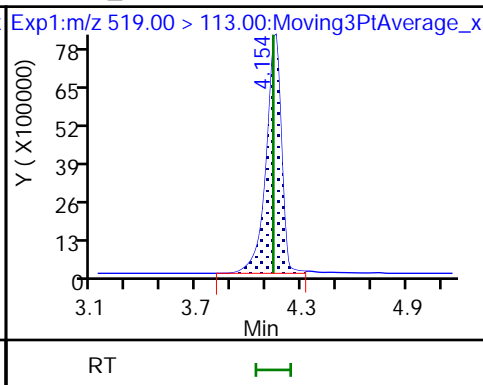
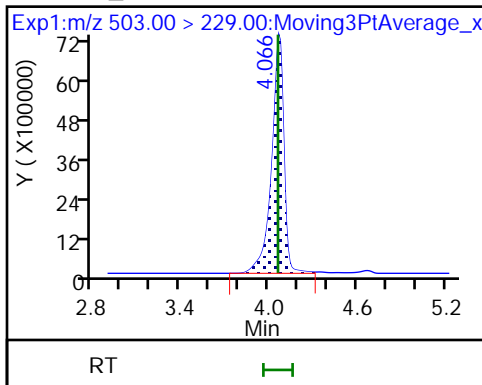
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

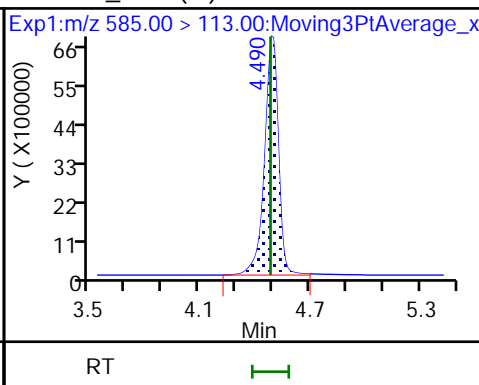
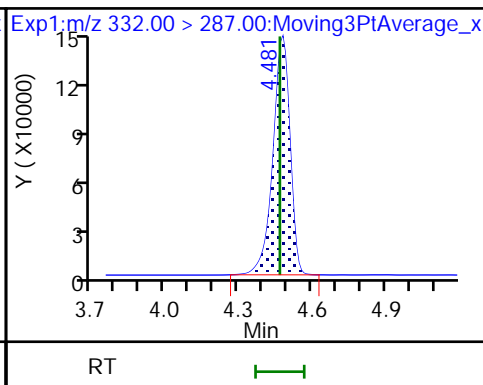
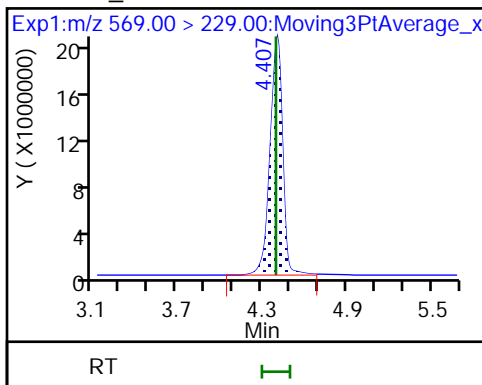
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

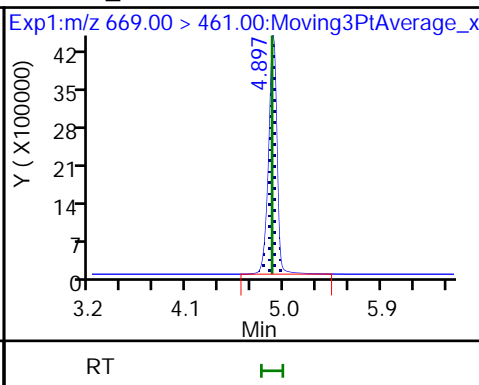
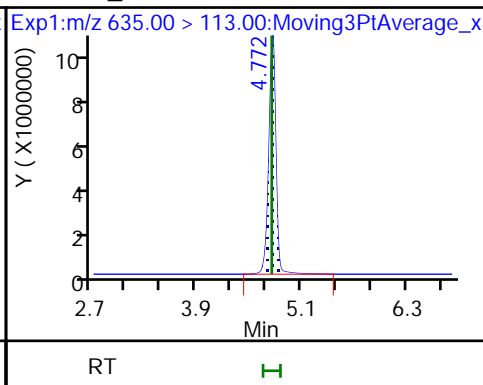
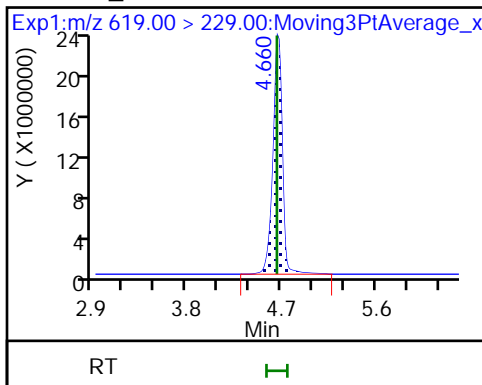
5 BFS_A4B (M)



7 BFS_AB3

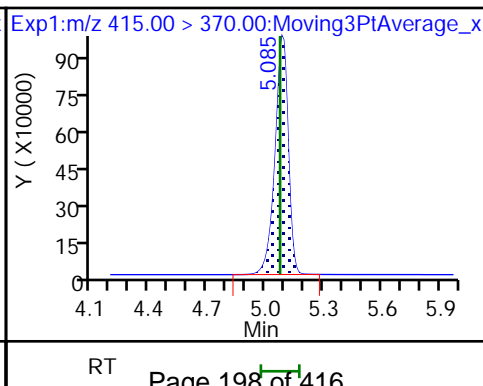
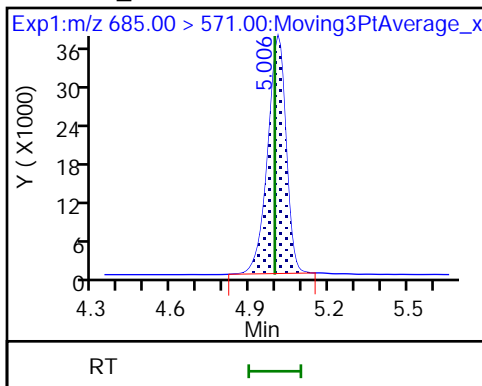
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

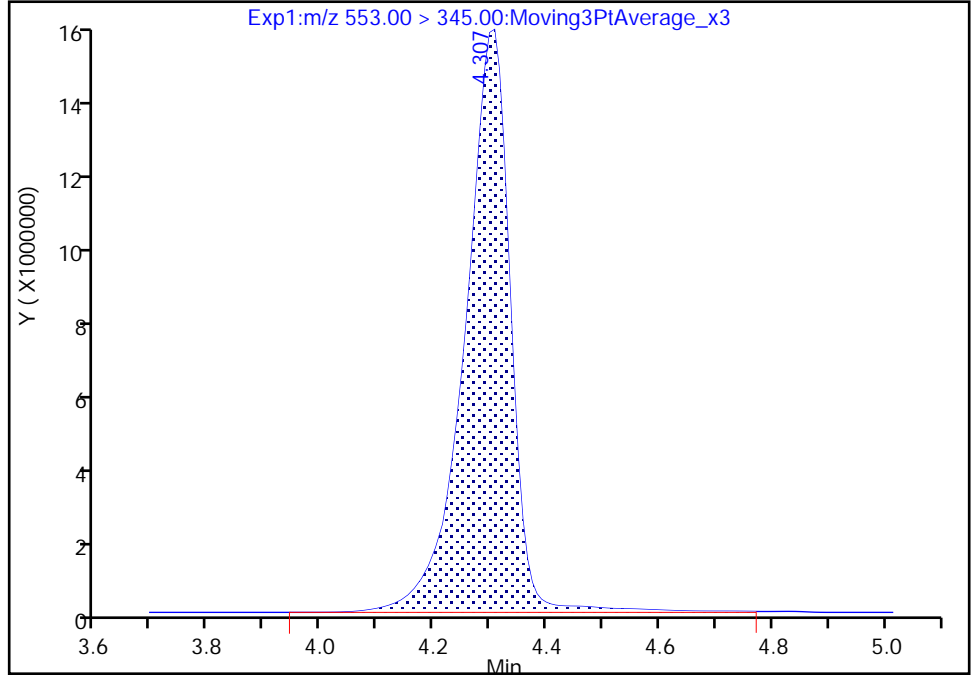
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
Injection Date: 01-Jun-2022 13:42:07 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

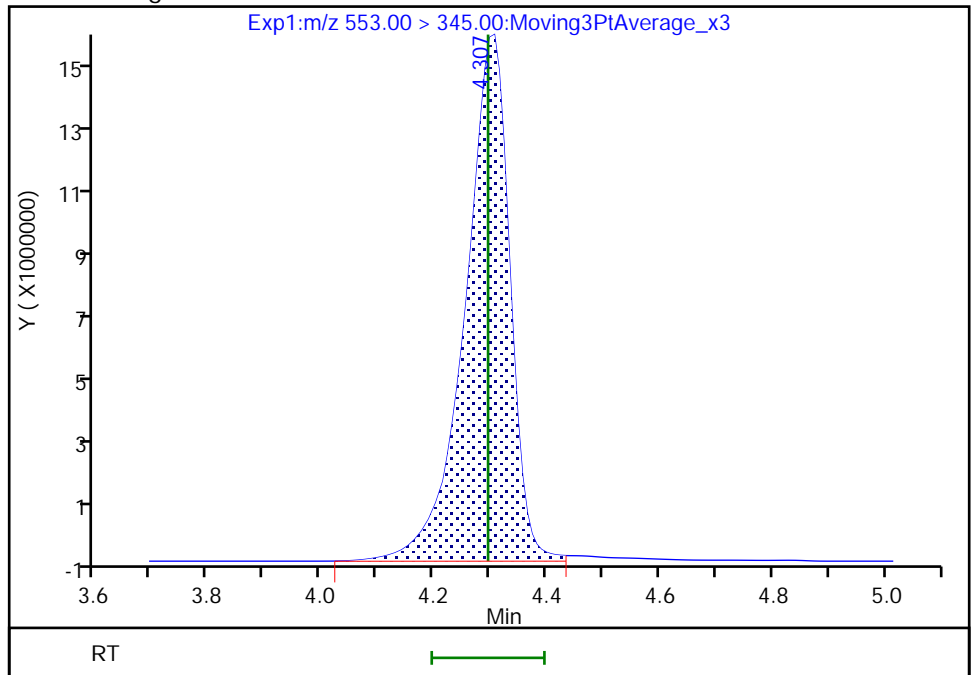
RT: 4.31
Area: 88205232
Amount: 304.5405
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 86742054
Amount: 314.4340
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:05:17
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 199 of 416

Eurofins Lancaster Laboratories Environment Testing, LLC

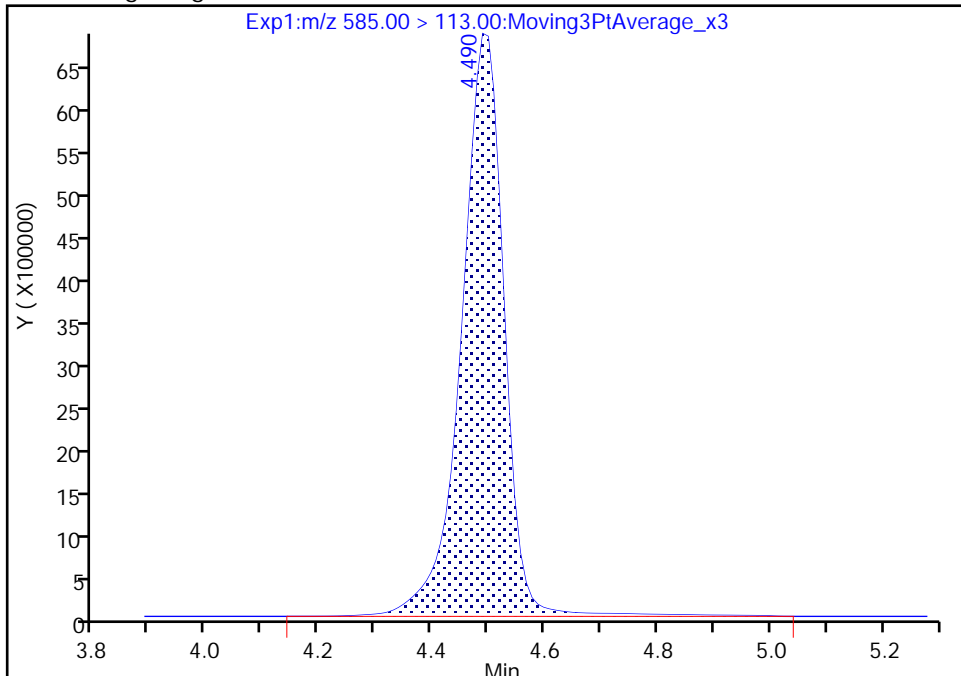
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
Injection Date: 01-Jun-2022 13:42:07 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

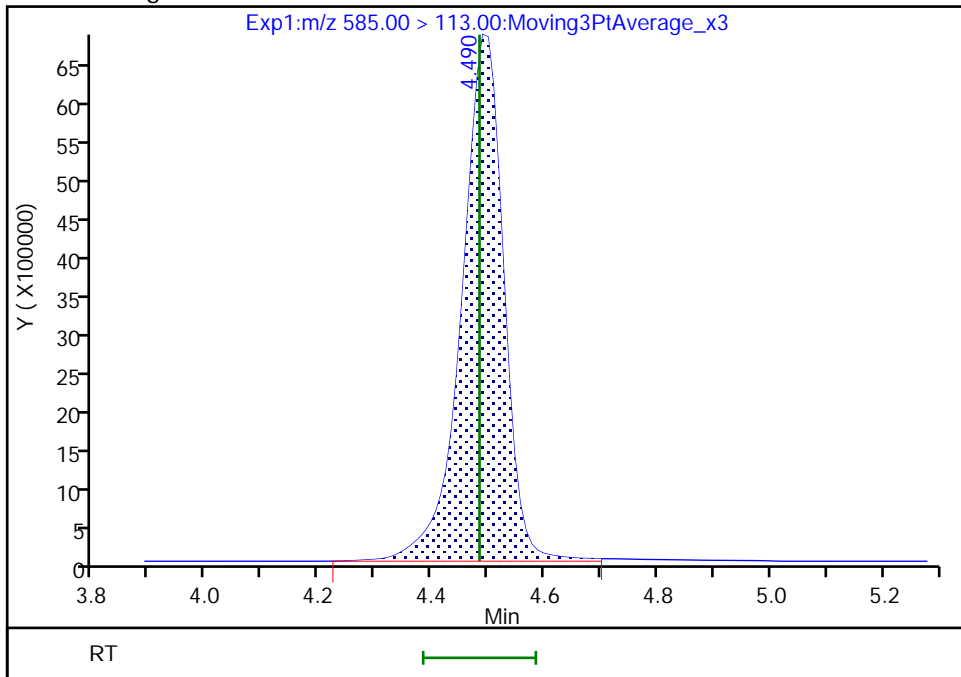
RT: 4.49
Area: 35556681
Amount: 52.477229
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 35203991
Amount: 52.233445
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:05:26
Audit Action: Manually Integrated

Calibration

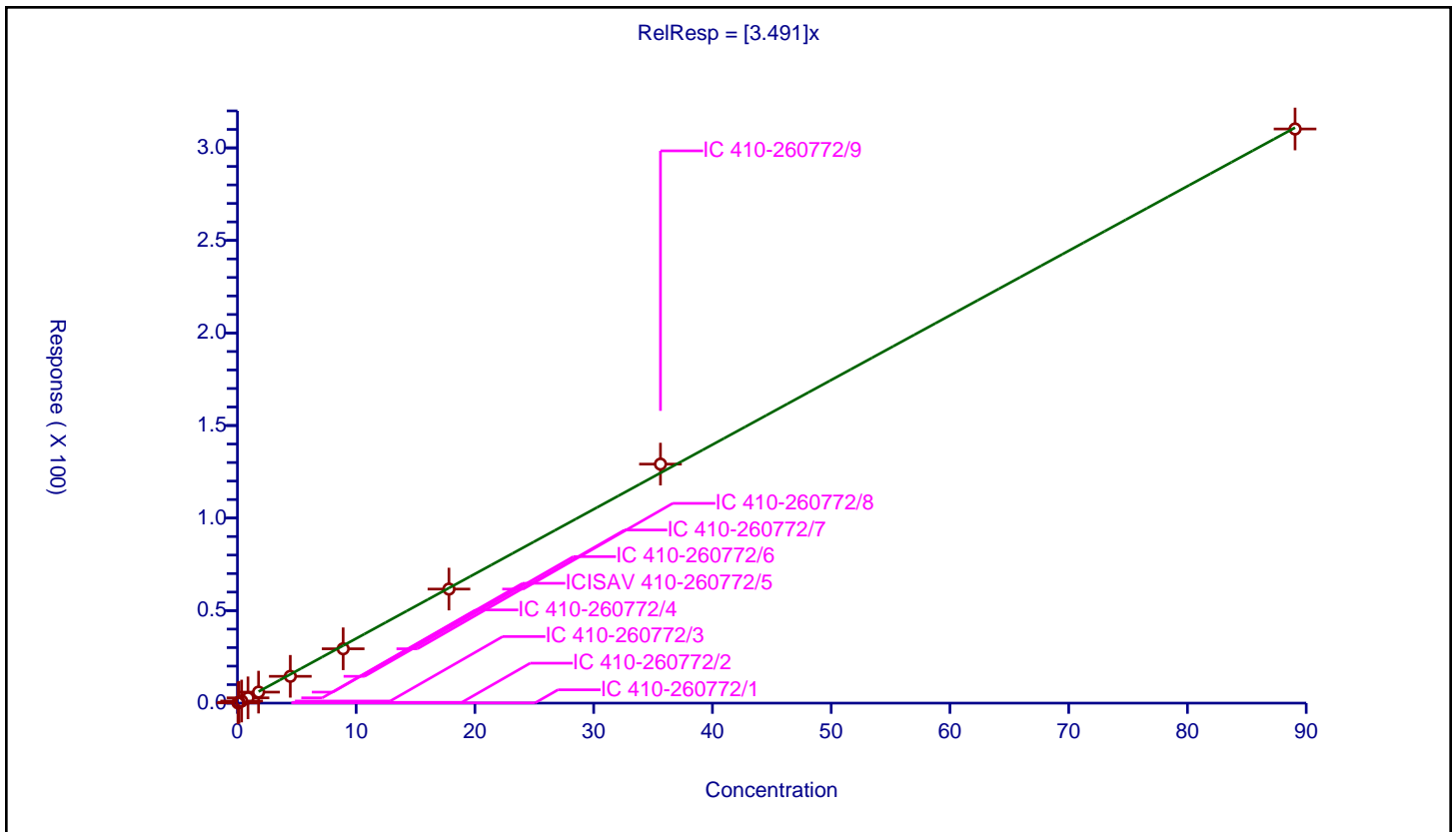
/ BFS_AB2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.491

Error Coefficients	
Standard Error:	15300000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.044531	0.131872	5.0	782424.0	2.961358	Y
2	IC 410-260772/2	0.133593	0.437399	5.0	756152.0	3.274115	Y
3	IC 410-260772/3	0.356248	1.134909	5.0	753532.0	3.185726	Y
4	IC 410-260772/4	0.89062	2.852748	5.0	749330.0	3.203104	Y
5	ICISAV 410-260772/5	1.78124	5.956113	5.0	710727.0	3.343801	Y
6	IC 410-260772/6	4.4531	14.483129	5.0	702341.0	3.25237	Y
7	IC 410-260772/7	8.9062	29.370136	5.0	773603.0	3.297718	Y
8	IC 410-260772/8	17.8124	61.629204	5.0	731839.0	3.459905	Y
9	IC 410-260772/9	35.6248	129.142728	5.0	628418.0	3.625079	Y
10	IC 410-260772/10	89.062	310.227425	5.0	673694.0	3.483275	Y



Calibration

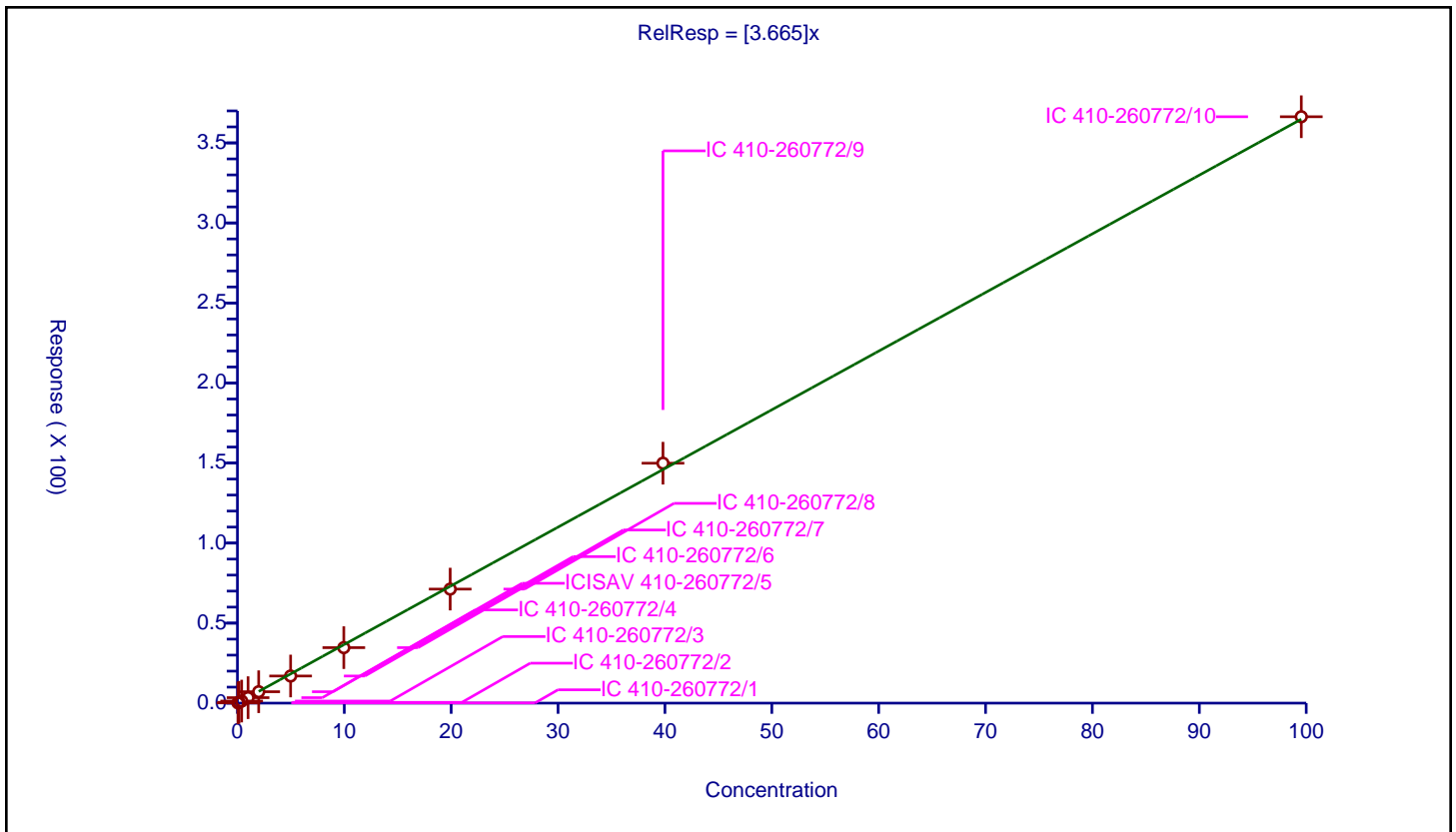
/ BFS_A3B

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.665

Error Coefficients	
Standard Error:	18100000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.04977	0.154788	5.0	782424.0	3.110086	Y
2	IC 410-260772/2	0.149309	0.492427	5.0	756152.0	3.298037	Y
3	IC 410-260772/3	0.398158	1.289229	5.0	753532.0	3.237982	Y
4	IC 410-260772/4	0.995395	3.42586	5.0	749330.0	3.44171	Y
5	ICISAV 410-260772/5	1.99079	7.128433	5.0	710727.0	3.580706	Y
6	IC 410-260772/6	4.976975	16.944953	5.0	702341.0	3.404669	Y
7	IC 410-260772/7	9.95395	34.6651	5.0	773603.0	3.482547	Y
8	IC 410-260772/8	19.9079	71.242924	5.0	731839.0	3.578626	Y
9	IC 410-260772/9	39.8158	149.888569	5.0	628418.0	3.76455	Y
10	IC 410-260772/10	99.5395	366.343421	5.0	673694.0	3.680382	Y



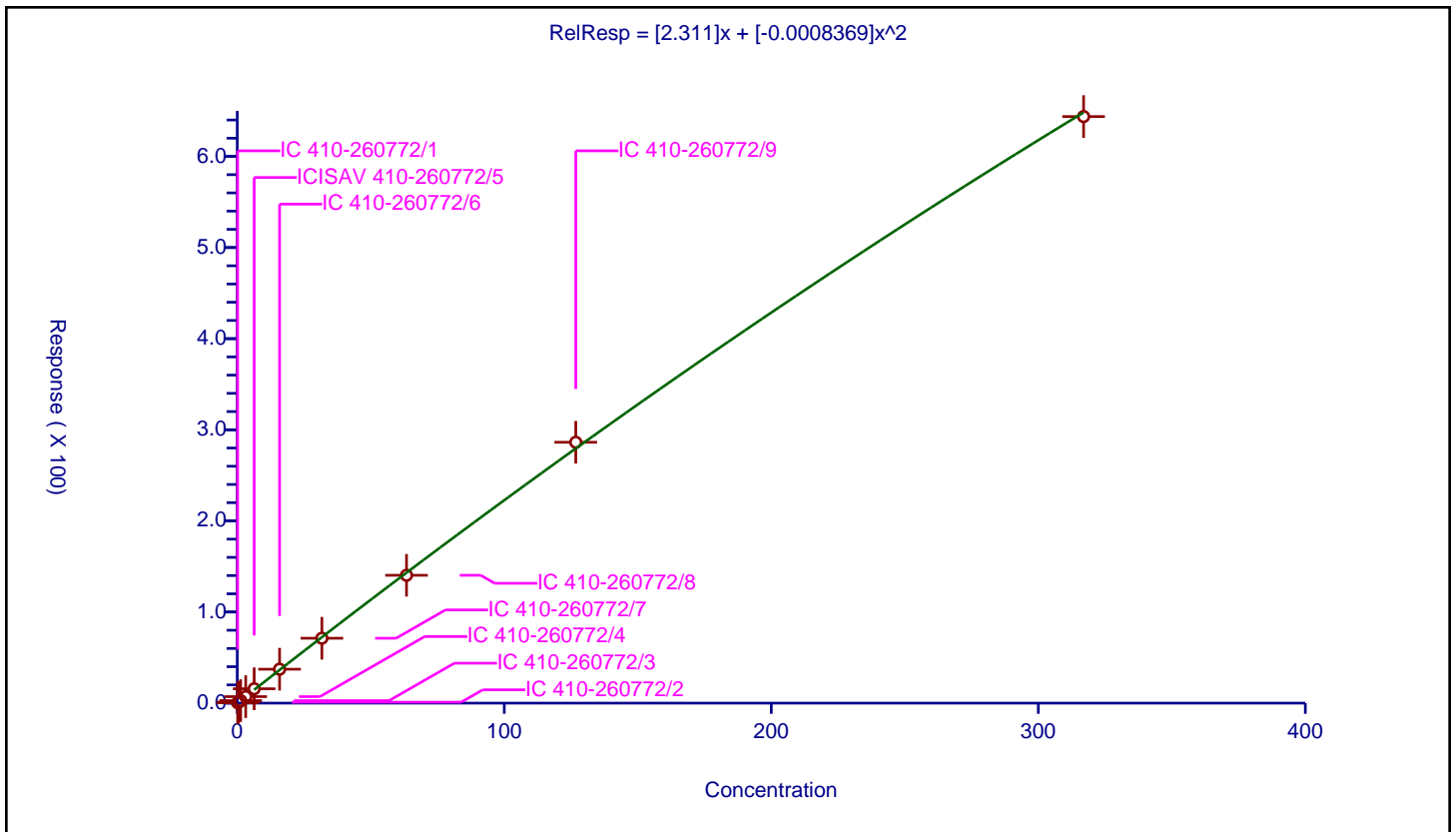
Calibration

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.311
Second Order:	-0.0008369

Error Coefficients	
Standard Error:	34300000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.158478	0.37226	5.0	782424.0	2.348972	Y
2	IC 410-260772/2	0.475433	1.078368	5.0	756152.0	2.268179	Y
3	IC 410-260772/3	1.267822	2.753526	5.0	753532.0	2.171855	Y
4	IC 410-260772/4	3.169555	7.15299	5.0	749330.0	2.256781	Y
5	ICISAV 410-260772/5	6.33911	15.761136	5.0	710727.0	2.486333	Y
6	IC 410-260772/6	15.847775	37.236919	5.0	702341.0	2.349662	Y
7	IC 410-260772/7	31.69555	71.228233	5.0	773603.0	2.247263	Y
8	IC 410-260772/8	63.3911	140.31414	5.0	731839.0	2.213468	Y
9	IC 410-260772/9	126.7822	286.311961	5.0	628418.0	2.258298	Y
10	IC 410-260772/10	316.9555	643.779327	5.0	673694.0	2.031135	Y



Calibration

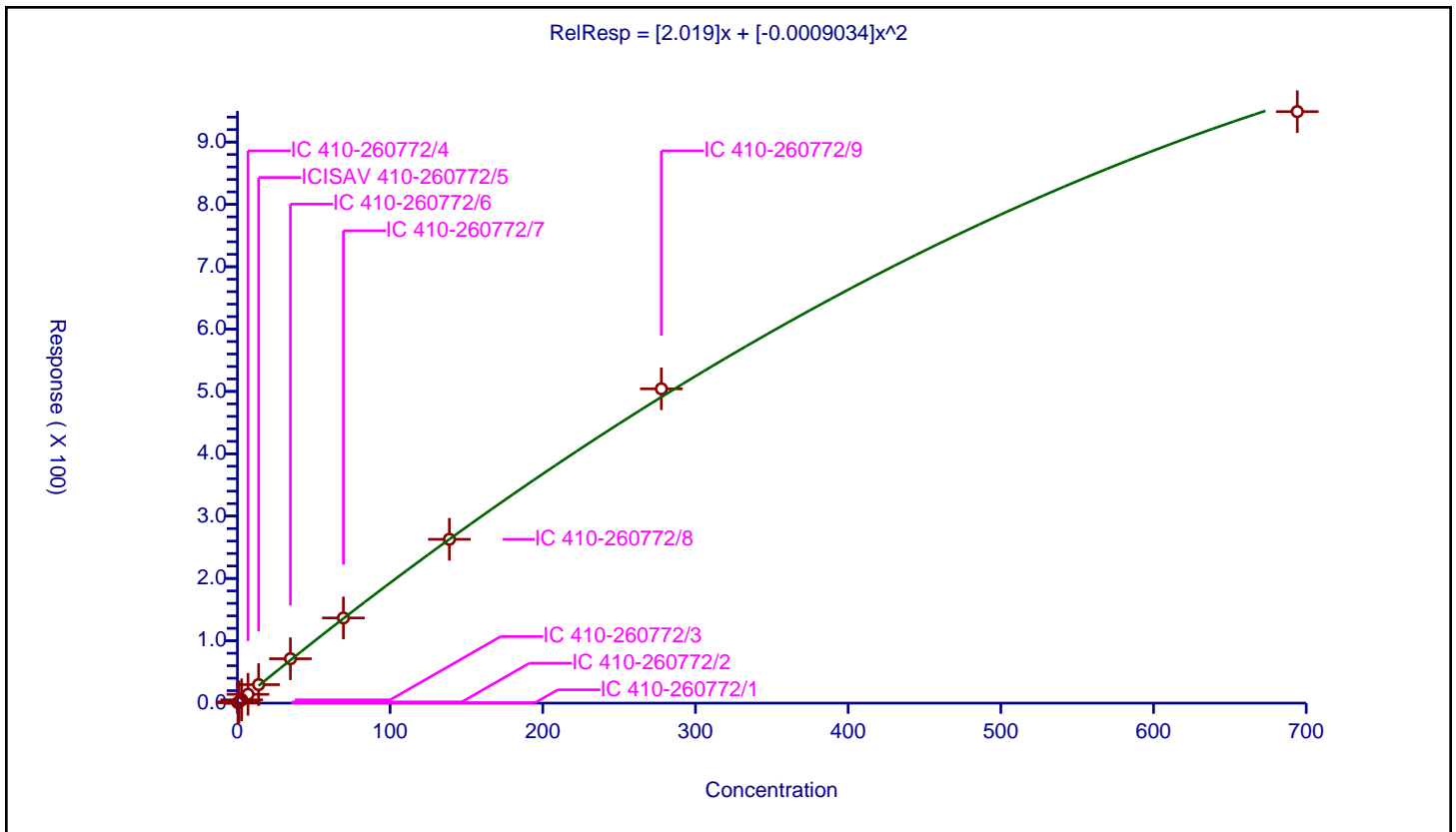
/ BFS_A2B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.019
Second Order:	-0.0009034

Error Coefficients	
Standard Error:	52900000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.347079	0.668039	5.0	782424.0	1.924746	Y
2	IC 410-260772/2	1.041238	2.037018	5.0	756152.0	1.956343	Y
3	IC 410-260772/3	2.776634	5.33702	5.0	753532.0	1.922118	Y
4	IC 410-260772/4	6.941585	14.140672	5.0	749330.0	2.037096	Y
5	ICISAV 410-260772/5	13.88317	29.687208	5.0	710727.0	2.138359	Y
6	IC 410-260772/6	34.707925	71.193131	5.0	702341.0	2.051207	Y
7	IC 410-260772/7	69.41585	136.593563	5.0	773603.0	1.967758	Y
8	IC 410-260772/8	138.8317	262.767323	5.0	731839.0	1.892704	Y
9	IC 410-260772/9	277.6634	504.17017	5.0	628418.0	1.81576	Y
10	IC 410-260772/10	694.1585	948.807114	5.0	673694.0	1.366845	Y



Calibration

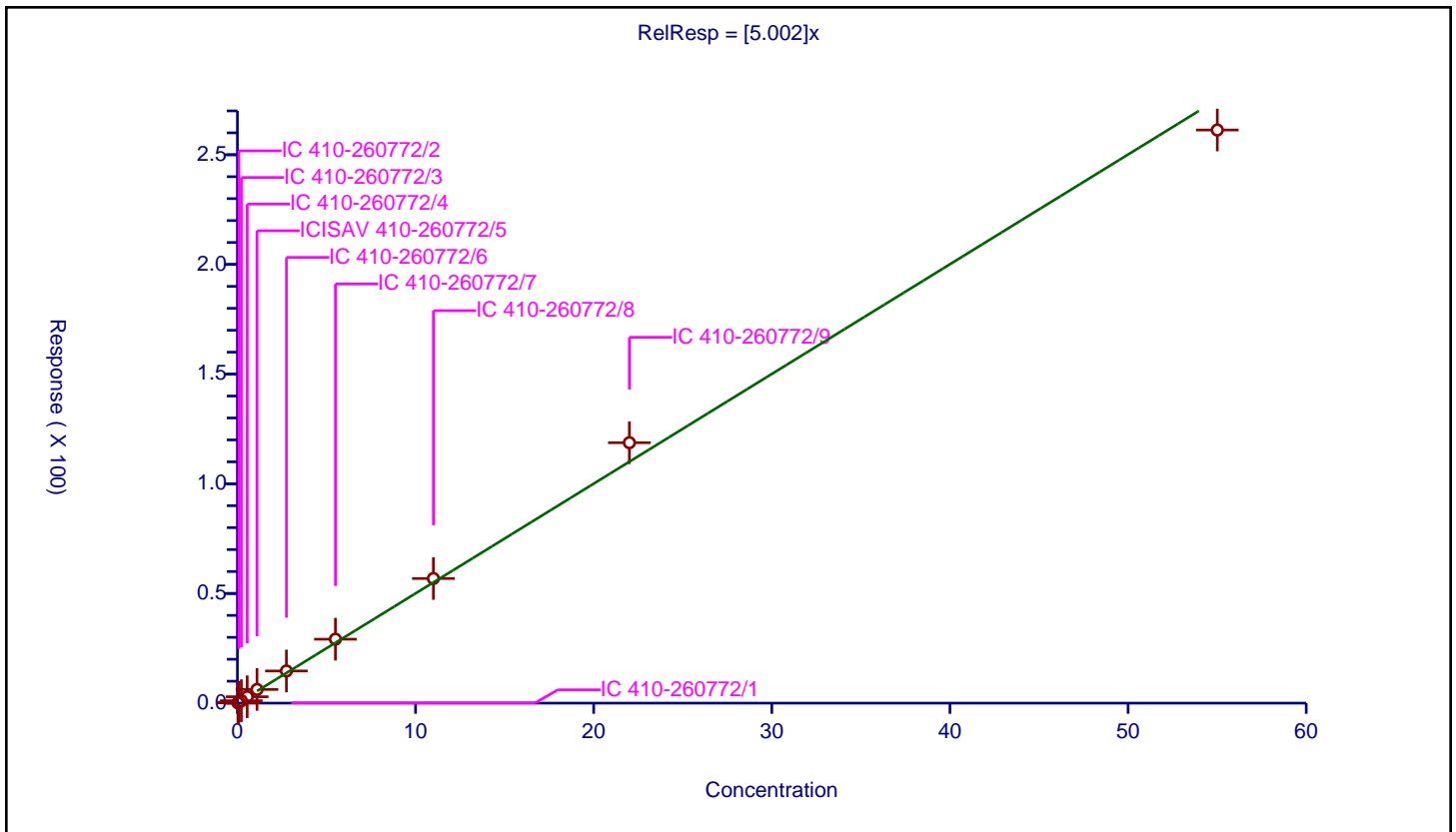
/ BFS_A4B

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.002

Error Coefficients	
Standard Error:	13200000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.027505	0.133253	5.0	782424.0	4.844755	Y
2	IC 410-260772/2	0.082514	0.423116	5.0	756152.0	5.12784	Y
3	IC 410-260772/3	0.220036	1.101652	5.0	753532.0	5.00669	Y
4	IC 410-260772/4	0.55009	2.903107	5.0	749330.0	5.277512	Y
5	ICISAV 410-260772/5	1.10018	6.23494	5.0	710727.0	5.6672	Y
6	IC 410-260772/6	2.75045	14.664821	5.0	702341.0	5.33179	Y
7	IC 410-260772/7	5.5009	29.150708	5.0	773603.0	5.299262	Y
8	IC 410-260772/8	11.0018	56.813753	5.0	731839.0	5.164042	Y
9	IC 410-260772/9	22.0036	118.733462	5.0	628418.0	5.396093	Y
10	IC 410-260772/10	55.009	261.275824	5.0	673694.0	4.749692	Y



Calibration

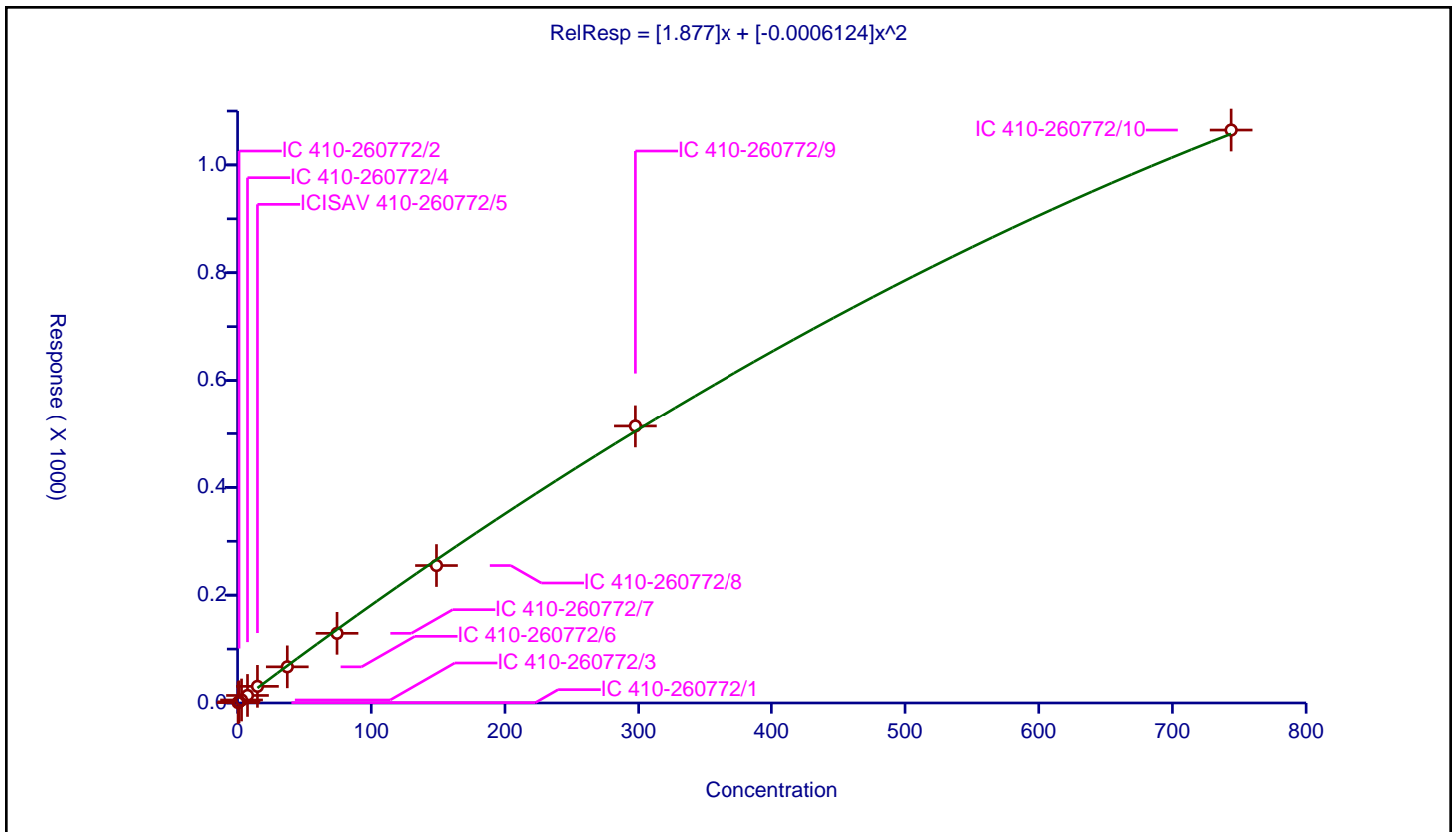
/ BFS_AB3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.877
Second Order:	-0.0006124

Error Coefficients	
Standard Error:	57700000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.371964	0.669183	5.0	782424.0	1.799052	Y
2	IC 410-260772/2	1.115893	2.146486	5.0	756152.0	1.92356	Y
3	IC 410-260772/3	2.975714	5.5805	5.0	753532.0	1.875348	Y
4	IC 410-260772/4	7.439285	13.964088	5.0	749330.0	1.877074	Y
5	ICISAV 410-260772/5	14.87857	30.841434	5.0	710727.0	2.072876	Y
6	IC 410-260772/6	37.196425	67.042783	5.0	702341.0	1.802399	Y
7	IC 410-260772/7	74.39285	129.233877	5.0	773603.0	1.737181	Y
8	IC 410-260772/8	148.7857	255.007153	5.0	731839.0	1.713922	Y
9	IC 410-260772/9	297.5714	514.016125	5.0	628418.0	1.727371	Y
10	IC 410-260772/10	743.9285	1064.740557	5.0	673694.0	1.43124	Y



Calibration

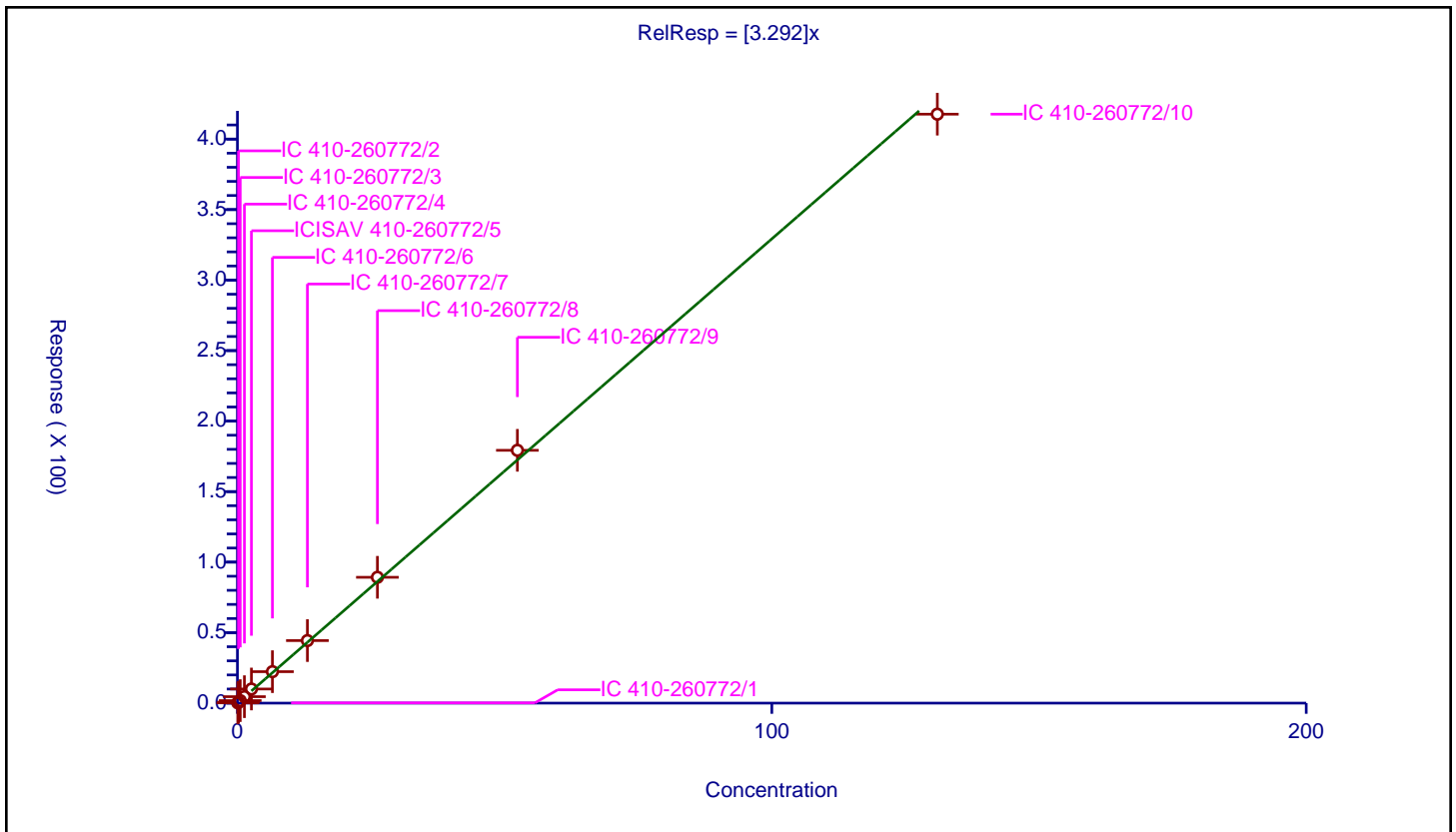
/ BFS_A3B2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.292

Error Coefficients	
Standard Error:	20800000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.065487	0.207477	5.0	782424.0	3.168229	Y
2	IC 410-260772/2	0.19646	0.673046	5.0	756152.0	3.425863	Y
3	IC 410-260772/3	0.523894	1.790787	5.0	753532.0	3.418223	Y
4	IC 410-260772/4	1.309735	4.584589	5.0	749330.0	3.500394	Y
5	ICISAV 410-260772/5	2.61947	10.016511	5.0	710727.0	3.823869	Y
6	IC 410-260772/6	6.548675	22.318069	5.0	702341.0	3.408028	Y
7	IC 410-260772/7	13.09735	44.348678	5.0	773603.0	3.38608	Y
8	IC 410-260772/8	26.1947	89.226667	5.0	731839.0	3.406287	Y
9	IC 410-260772/9	52.3894	179.294848	5.0	628418.0	3.42235	Y
10	IC 410-260772/10	130.9735	417.670144	5.0	673694.0	3.188967	Y



Calibration

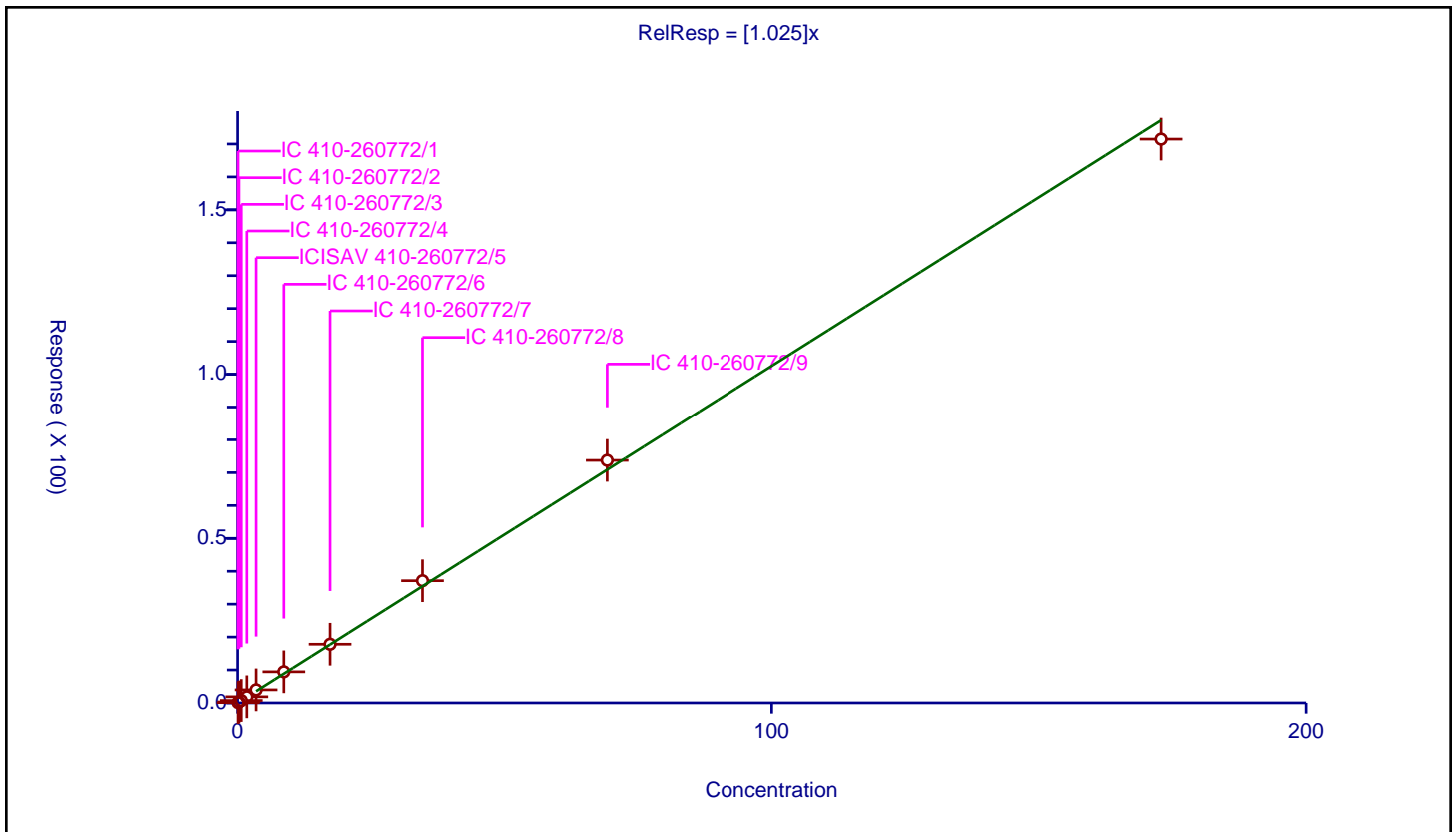
/ BFS_B4

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.025

Error Coefficients	
Standard Error:	8560000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.086443	0.093274	5.0	782424.0	1.079032	Y
2	IC 410-260772/2	0.259328	0.284751	5.0	756152.0	1.098036	Y
3	IC 410-260772/3	0.69154	0.732942	5.0	753532.0	1.059869	Y
4	IC 410-260772/4	1.72885	1.860148	5.0	749330.0	1.075946	Y
5	ICISAV 410-260772/5	3.4577	3.965517	5.0	710727.0	1.146866	Y
6	IC 410-260772/6	8.64425	9.439062	5.0	702341.0	1.091947	Y
7	IC 410-260772/7	17.2885	17.824317	5.0	773603.0	1.030993	Y
8	IC 410-260772/8	34.577	37.125187	5.0	731839.0	1.073696	Y
9	IC 410-260772/9	69.154	73.744991	5.0	628418.0	1.066388	Y
10	IC 410-260772/10	172.885	171.493564	5.0	673694.0	0.991952	Y



Calibration

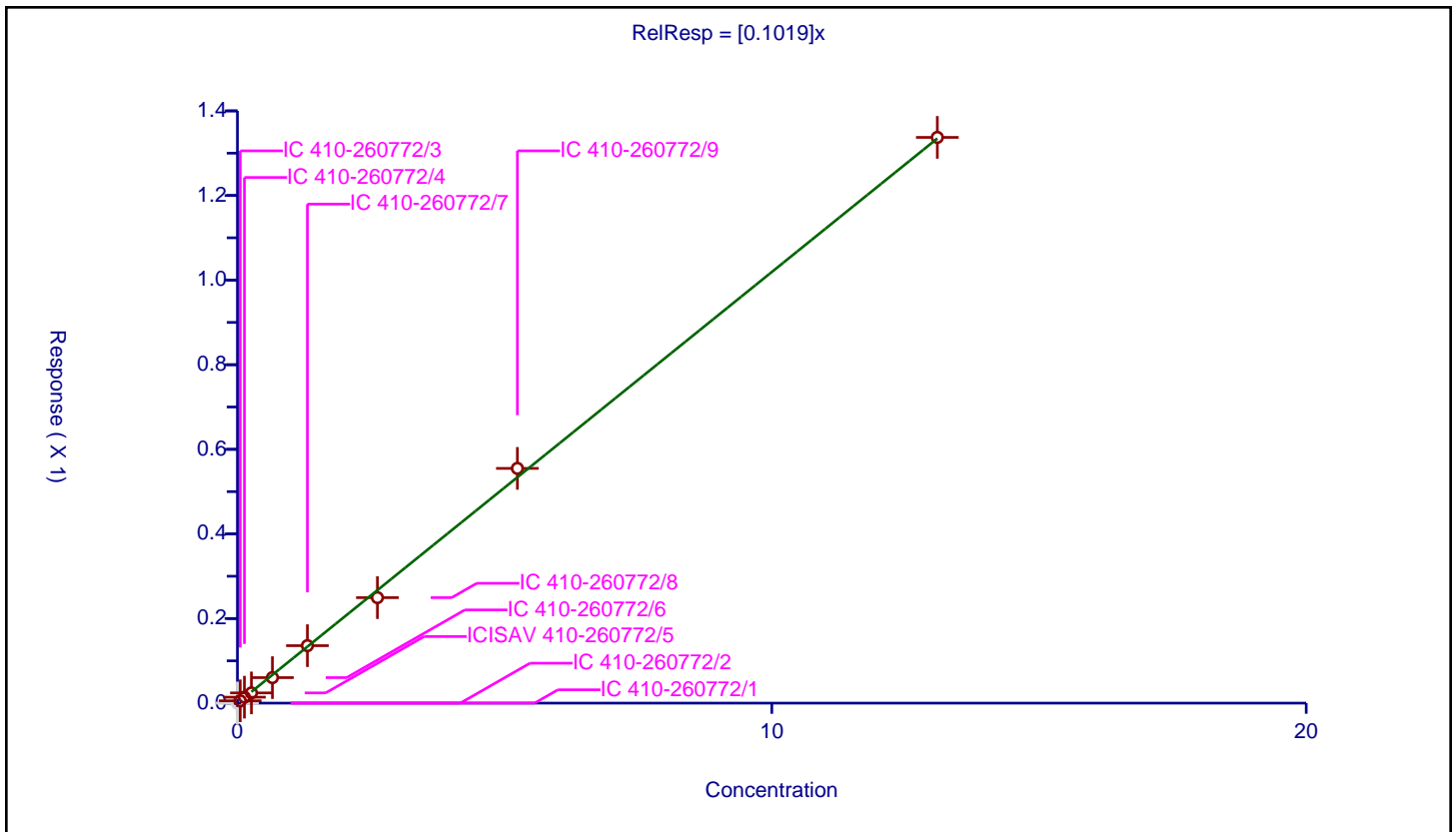
/ BFS_A2B3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1019

Error Coefficients	
Standard Error:	74800
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.0	0.0	5.0	782424.0	NaN	N
2	IC 410-260772/2	0.0	0.0	5.0	756152.0	NaN	N
3	IC 410-260772/3	0.05239	0.005514	5.0	753532.0	0.10525	Y
4	IC 410-260772/4	0.130975	0.014053	5.0	749330.0	0.107292	Y
5	ICISAV 410-260772/5	0.26195	0.024116	5.0	710727.0	0.092064	Y
6	IC 410-260772/6	0.654875	0.060263	5.0	702341.0	0.092022	Y
7	IC 410-260772/7	1.30975	0.135819	5.0	773603.0	0.103698	Y
8	IC 410-260772/8	2.6195	0.249365	5.0	731839.0	0.095196	Y
9	IC 410-260772/9	5.239	0.554917	5.0	628418.0	0.10592	Y
10	IC 410-260772/10	13.0975	1.33735	5.0	673694.0	0.102107	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: ICV 410-260772/12 Calibration Date: 06/01/2022 14:08
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.188		4.07	4.45	-8.7	30.0
BFS_A3B	LID1F		3.187		4.33	4.98	-13.1	30.0
BFS_B3	Q2IDF		2.203		15.2	15.8	-4.1	30.0
BFS_A2B2	Q2IDF		1.903		33.2	34.7	-4.3	30.0
BFS_A4B	LID1F		5.004		2.75	2.75	0.0	30.0
BFS_AB3	Q2IDF		1.744		35.0	37.2	-6.0	30.0
BFS_A3B2	LID1F		3.308		6.58	6.55	0.5	30.0
BFS_B4	LID1F		1.035		8.73	8.64	1.0	30.0
BFS_A2B3	LID1F		0.0852		0.547	0.655	-16.4	30.0
13C3 HFPO-DA	Ave	0.1618	0.1590		4.91	5.00	-1.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Jun-2022 14:08:28 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:30:12 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:28:04

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.066	4.066	0.0	0.909	1894186	4.07		5442	M
2 BFS_A3B									
519.00 > 113.00	4.142	4.154	-0.012	0.926	2116257	4.33		266	
3 BFS_B3									
553.00 > 345.00	4.299	4.307	-0.008	0.961	4658463	15.2		2430	
4 BFS_A2B2									M
569.00 > 229.00	4.399	4.407	-0.008	0.984	8813132	33.2		874	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.472	4.481	-0.009	0.881	667147	4.91	98.2	2163	
5 BFS_A4B									
585.00 > 113.00	4.490	4.490	0.0	1.004	1836315	2.75		1445	
7 BFS_AB3									
619.00 > 229.00	4.650	4.660	-0.010	1.040	8655773	35.0		36935	
8 BFS_A3B2									
635.00 > 113.00	4.765	4.772	-0.007	1.066	2890585	6.58		1229	
9 BFS_B4									
669.00 > 461.00	4.889	4.897	-0.008	1.093	1194153	8.73		1174	
10 BFS_A2B3									M
685.00 > 571.00	4.999	5.006	-0.007	1.118	7442	0.5473		167	M
* 11 13C2 PFOA									
415.00 > 370.00	5.077	5.085	-0.008		4196839	5.00		2838	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_BFS_00006

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-12.d

Injection Date: 01-Jun-2022 14:08:28

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

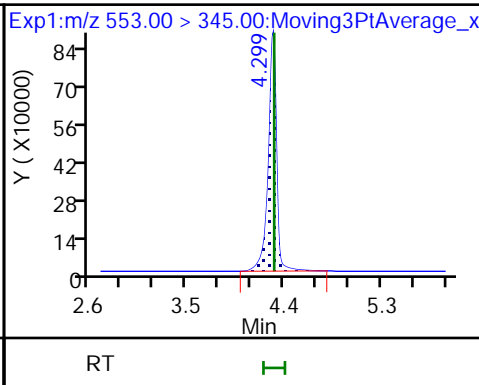
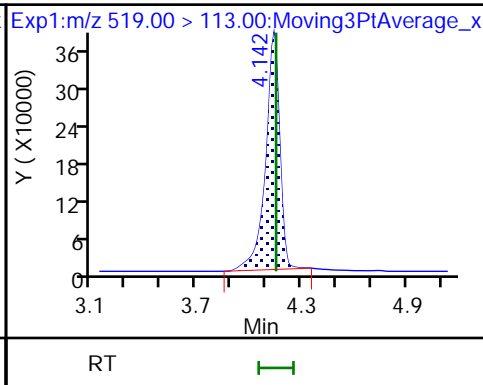
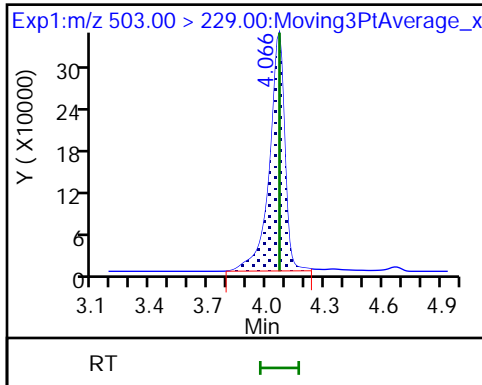
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B

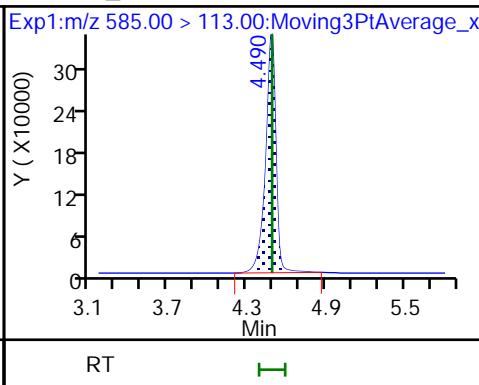
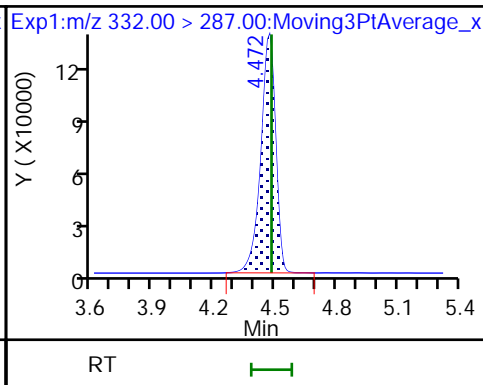
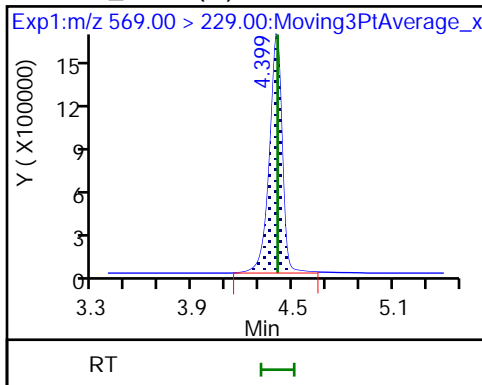
3 BFS_B3



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

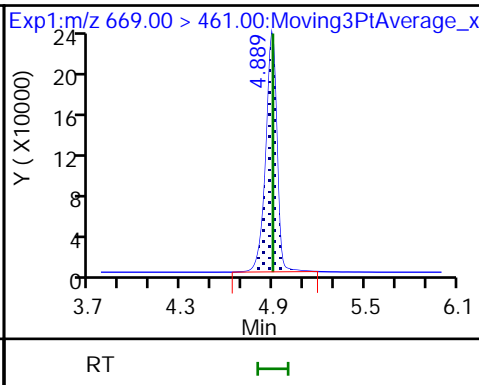
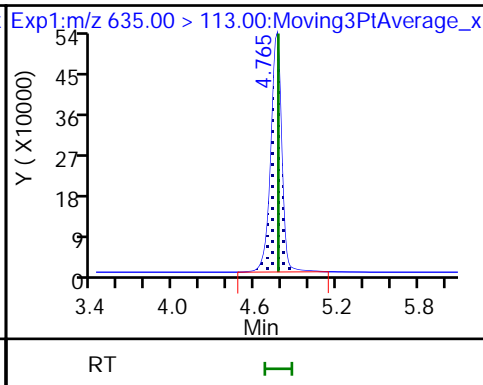
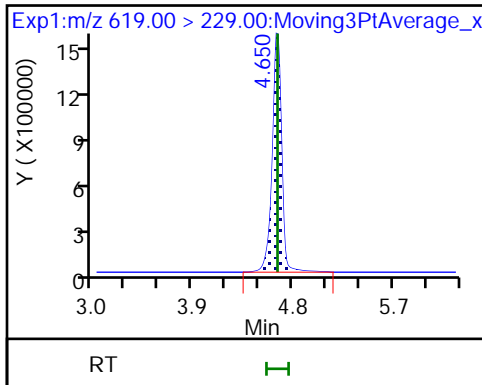
5 BFS_A4B



7 BFS_AB3

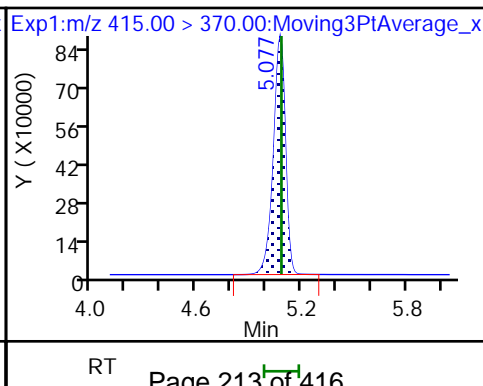
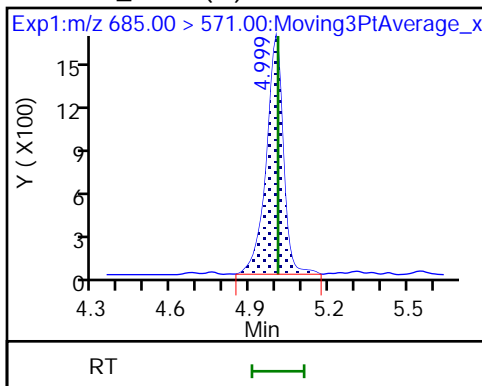
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

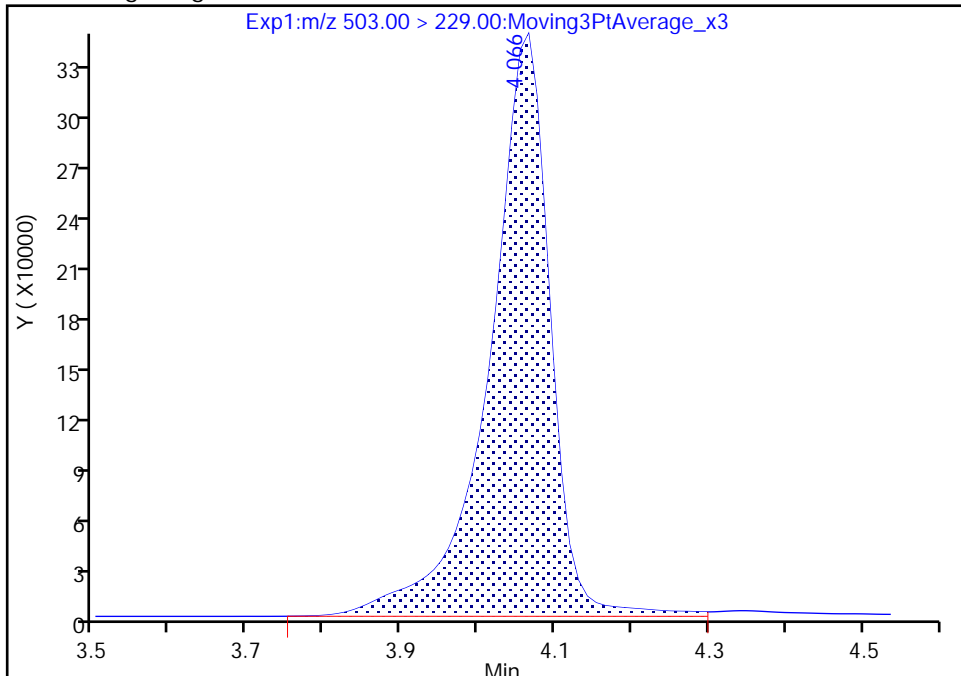
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-12.d
Injection Date: 01-Jun-2022 14:08:28 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

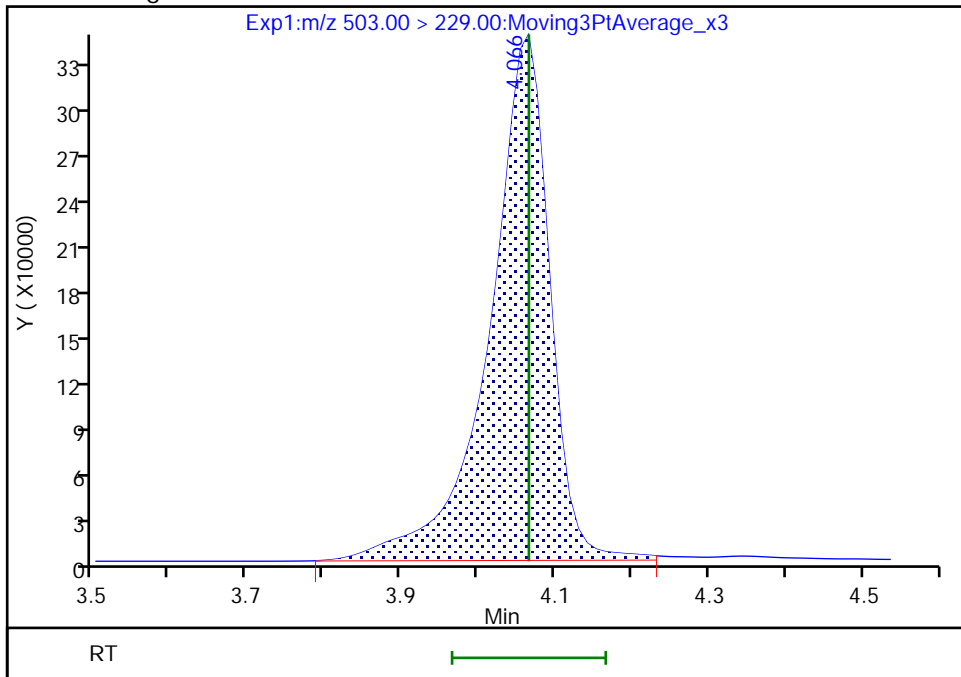
RT: 4.07
Area: 1917461
Amount: 4.115948
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 1894186
Amount: 4.065987
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:42
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

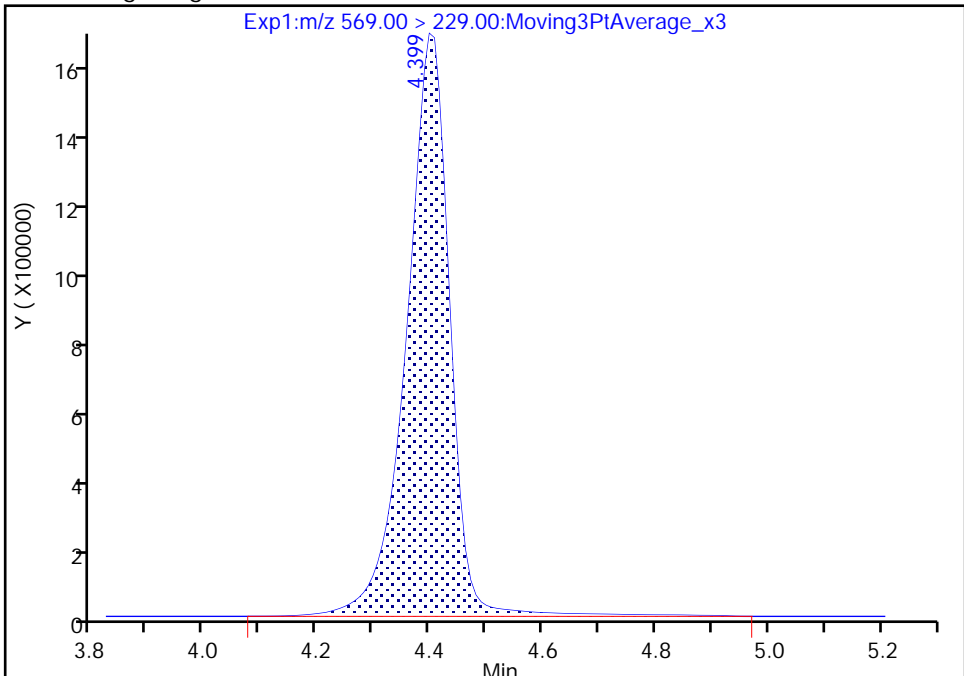
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-12.d
Injection Date: 01-Jun-2022 14:08:28 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

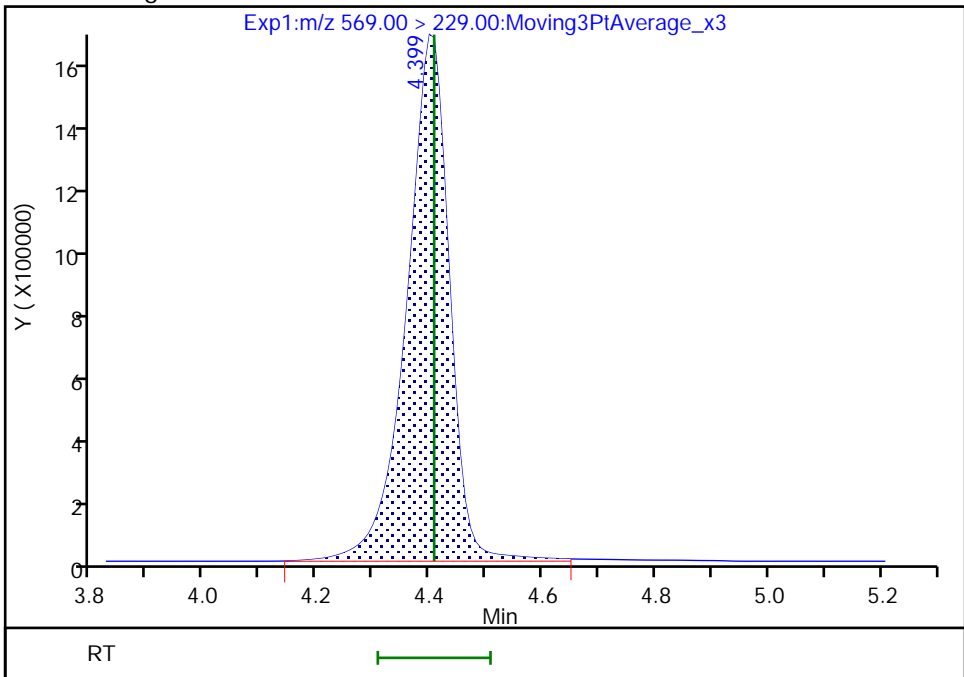
RT: 4.40
Area: 8888517
Amount: 33.491453
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 8813132
Amount: 33.203057
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:49
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

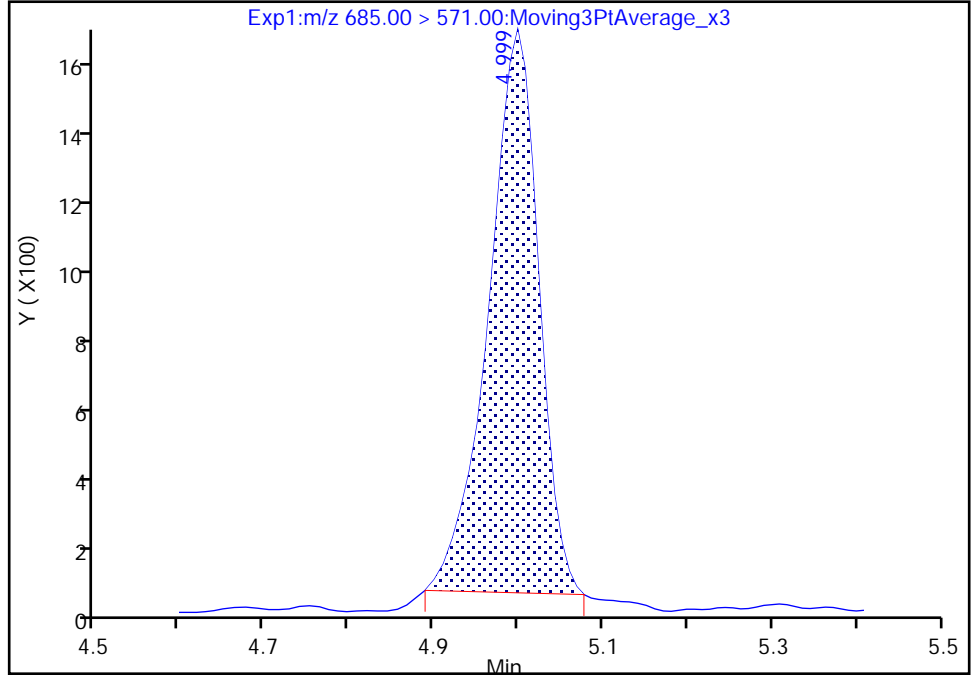
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Injection Date: 01-Jun-2022 14:08:28 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

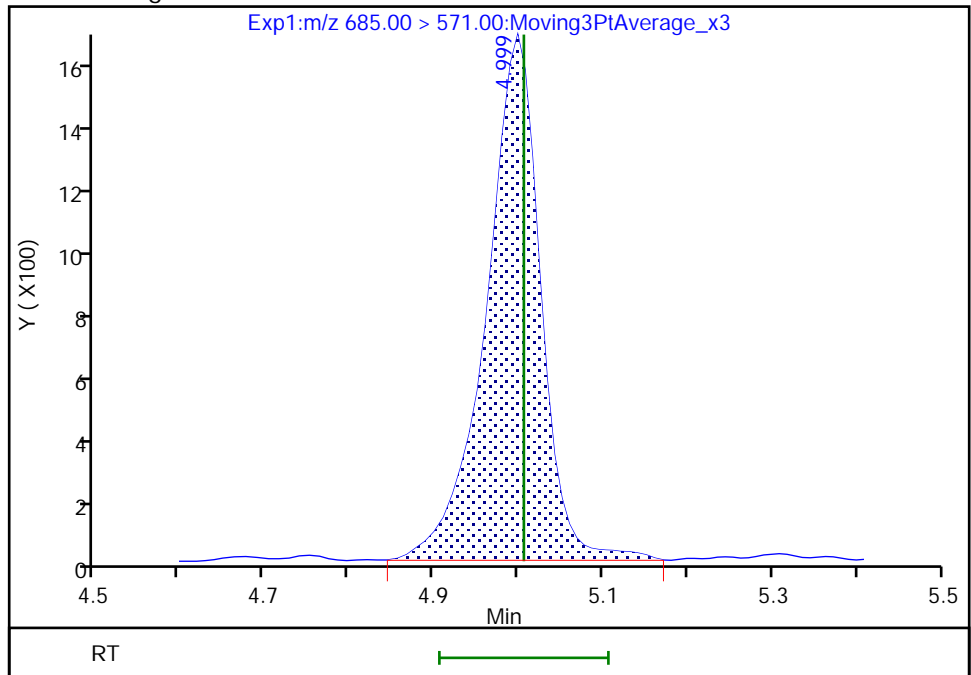
RT: 5.00
Area: 6628
Amount: 0.487396
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 7442
Amount: 0.547255
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:59
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/1 Calibration Date: 06/01/2022 14:33
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.392		1.73	1.78	-2.9	30.0
BFS_A3B	LID1F		3.535		1.92	1.99	-3.6	30.0
BFS_B3	Q2IDF		2.381		6.55	6.34	3.3	30.0
BFS_A2B2	Q2IDF		2.069		14.3	13.9	3.1	30.0
BFS_A4B	LID1F		5.319		1.17	1.10	6.3	30.0
BFS_AB3	Q2IDF		1.931		15.4	14.9	3.4	30.0
BFS_A3B2	LID1F		3.513		2.79	2.62	6.7	30.0
BFS_B4	LID1F		1.105		3.73	3.46	7.8	30.0
BFS_A2B3	LID1F		0.1108		0.285	0.262	8.7	30.0
13C3 HFPO-DA	Ave	0.1618	0.1665		5.14	5.00	2.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-14.d
 Lims ID: CCV 1_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 14:33:41 ALS Bottle#: 6 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 1_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:39:30

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.057	4.066	-0.009	0.909	917764	1.73	97.1	5017
2 BFS_A3B	519.00 > 113.00	4.133	4.154	-0.021	0.926	1069045	1.92	96.4	189
3 BFS_B3	553.00 > 345.00	4.294	4.307	-0.013	0.962	2292489	6.55	103	1172
4 BFS_A2B2	569.00 > 229.00	4.393	4.407	-0.014	0.984	4364359	14.3	103	1142 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.465	4.481	-0.016	0.881	759555	5.14	103	1989
5 BFS_A4B	585.00 > 113.00	4.474	4.490	-0.016	1.002	888981	1.17	106	568
7 BFS_AB3	619.00 > 229.00	4.653	4.660	-0.007	1.042	4364901	15.4	103	1641
8 BFS_A3B2	635.00 > 113.00	4.755	4.772	-0.017	1.065	1397834	2.79	107	613
9 BFS_B4	669.00 > 461.00	4.881	4.897	-0.016	1.093	580639	3.73	108	481
10 BFS_A2B3	685.00 > 571.00	4.983	5.006	-0.023	1.116	4410	0.2848	109	128 M
* 11 13C2 PFOA	415.00 > 370.00	5.071	5.085	-0.014		4561772	5.00		2812

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-14.d

Injection Date: 01-Jun-2022 14:33:41

Instrument ID: 30733

Lims ID: CCV_1_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

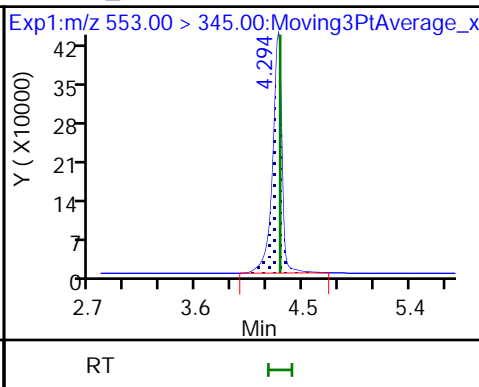
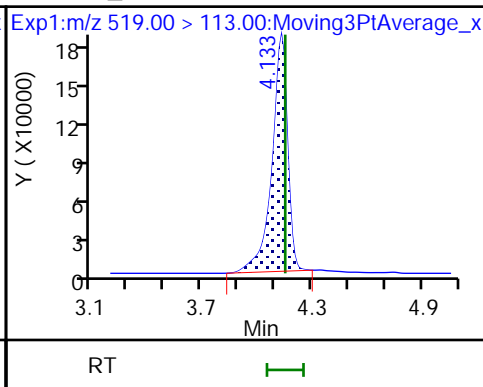
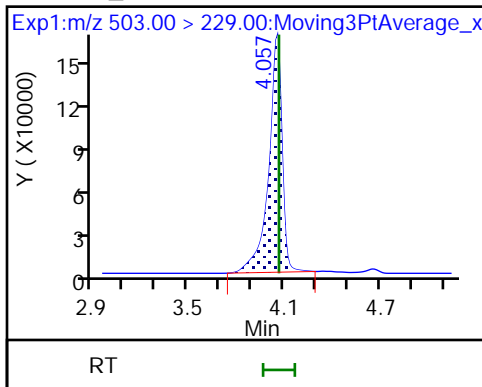
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

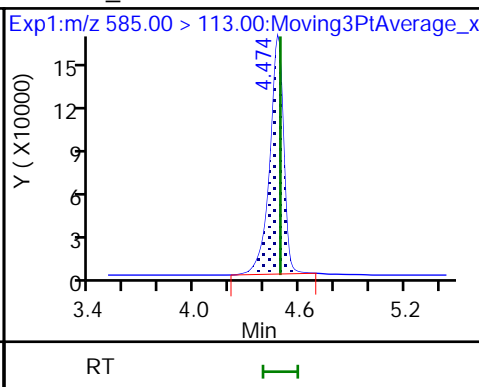
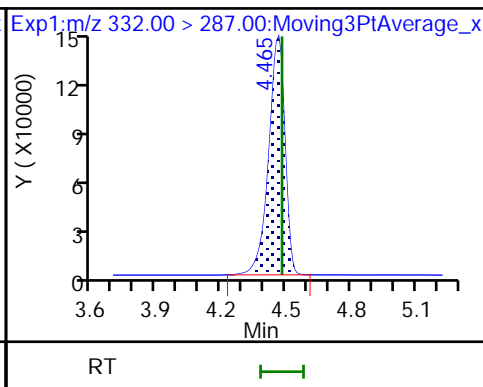
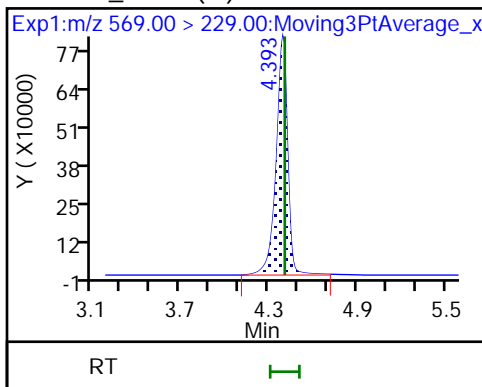
3 BFS_B3



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

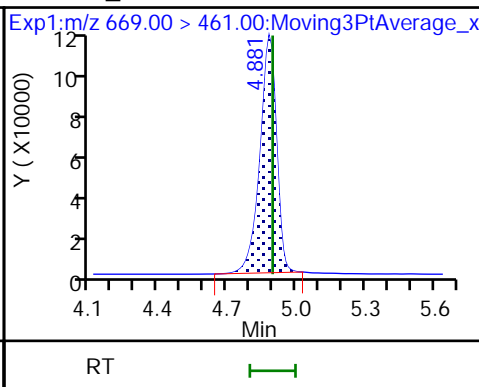
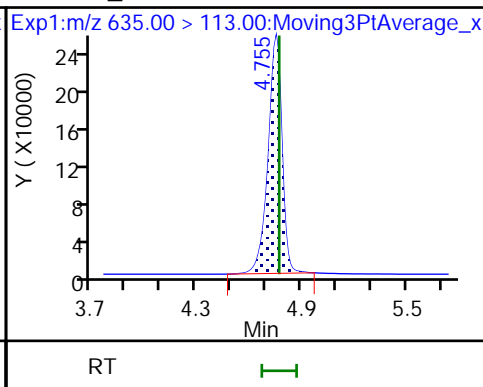
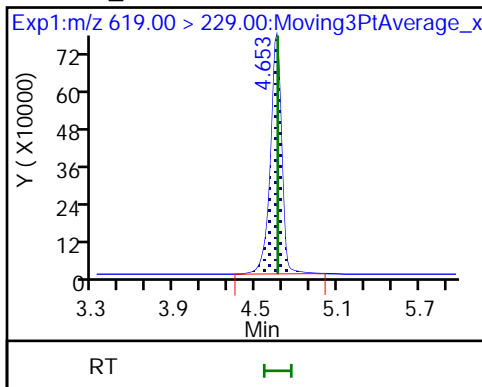
5 BFS_A4B



7 BFS_AB3

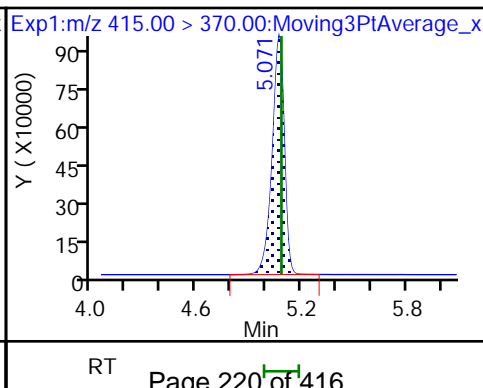
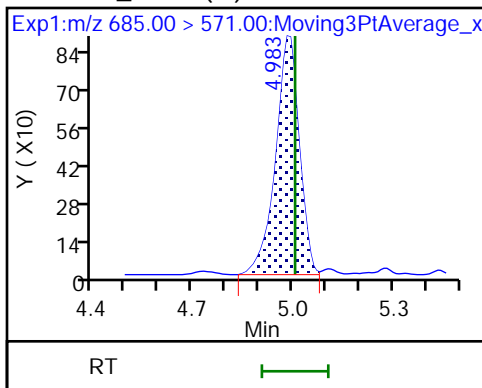
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

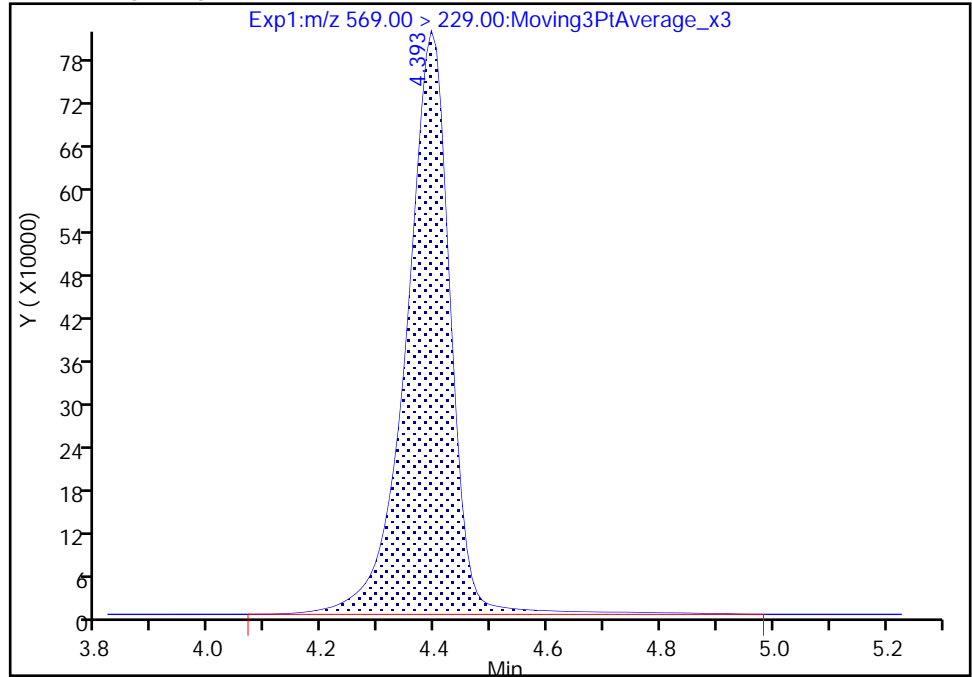
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Injection Date: 01-Jun-2022 14:33:41 Instrument ID: 30733
Lims ID: CCV 1_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

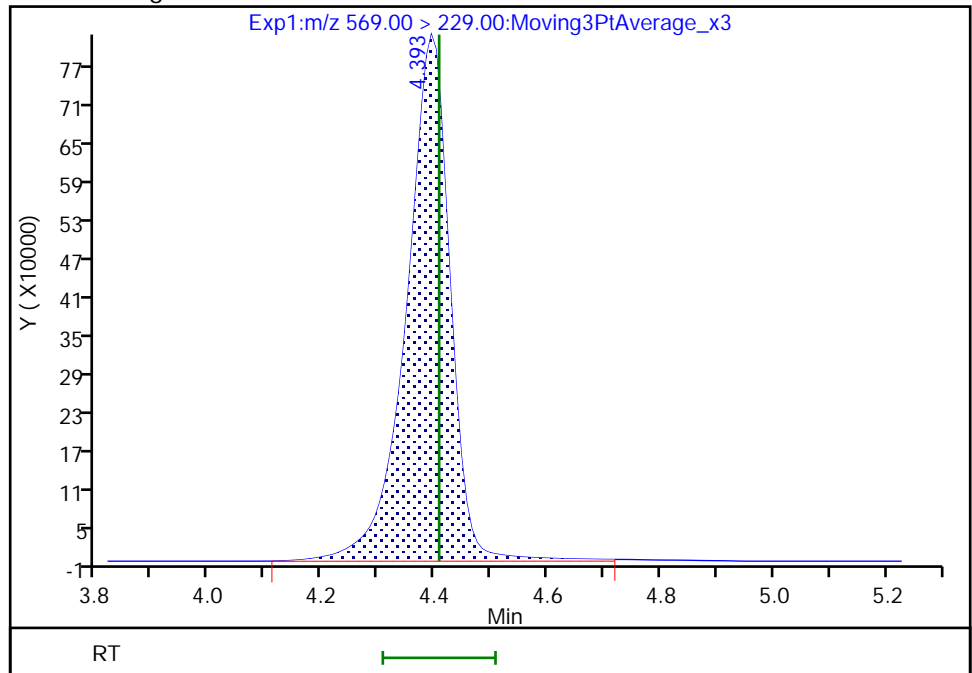
RT: 4.39
Area: 4384628
Amount: 14.386241
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 4364359
Amount: 14.319305
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:39:18
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

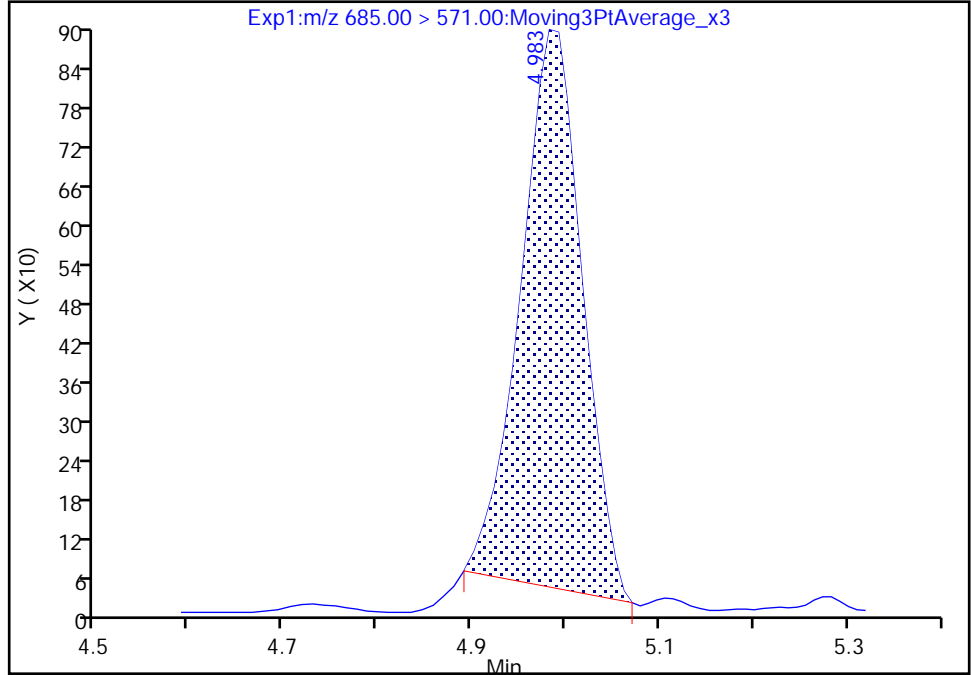
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-14.d
Injection Date: 01-Jun-2022 14:33:41 Instrument ID: 30733
Lims ID: CCV 1_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

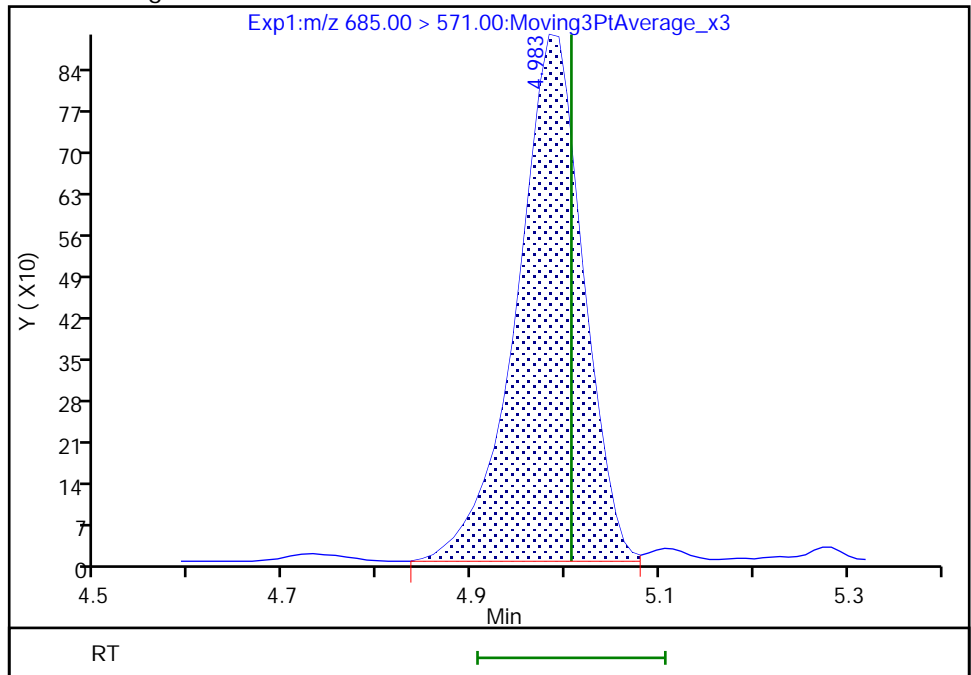
RT: 4.98
Area: 3906
Amount: 0.252287
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 4410
Amount: 0.284840
Amount Units: ng/ml

Manual Integration Results



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/14 Calibration Date: 06/01/2022 17:17
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-27.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.015		3.85	4.45	-13.7	30.0
BFS_A3B	LID1F		3.210		4.36	4.98	-12.4	30.0
BFS_B3	Q2IDF		2.180		15.0	15.8	-5.1	30.0
BFS_A2B2	Q2IDF		1.914		33.4	34.7	-3.8	30.0
BFS_A4B	LID1F		5.028		2.76	2.75	0.5	30.0
BFS_AB3	Q2IDF		1.761		35.3	37.2	-5.1	30.0
BFS_A3B2	LID1F		3.357		6.68	6.55	2.0	30.0
BFS_B4	LID1F		1.017		8.58	8.64	-0.8	30.0
BFS_A2B3	LID1F		0.1004		0.645	0.655	-1.5	30.0
13C3 HFPO-DA	Ave	0.1618	0.1608		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-27.d
 Lims ID: CCV 2_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 17:17:36 ALS Bottle#: 7 Worklist Smp#: 14
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:40:00

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.053	4.066	-0.013	0.909	2027270	3.85	86.3	6186
2 BFS_A3B	519.00 > 113.00	4.128	4.154	-0.026	0.926	2412328	4.36	87.6	241
3 BFS_B3	553.00 > 345.00	4.288	4.307	-0.019	0.962	5217323	15.0	94.9	1006 M
4 BFS_A2B2	569.00 > 229.00	4.388	4.407	-0.019	0.984	10030977	33.4	96.2	978 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.459	4.481	-0.022	0.880	755053	4.97	99.4	2130
5 BFS_A4B	585.00 > 113.00	4.478	4.490	-0.012	1.004	2088452	2.76	101	1612
7 BFS_AB3	619.00 > 229.00	4.647	4.660	-0.013	1.042	9892371	35.3	94.9	295931
8 BFS_A3B2	635.00 > 113.00	4.748	4.772	-0.024	1.065	3319479	6.68	102	1318
9 BFS_B4	669.00 > 461.00	4.875	4.897	-0.022	1.093	1328195	8.58	99.2	955
10 BFS_A2B3	685.00 > 571.00	4.988	5.006	-0.018	1.118	9925	0.6449	98.5	212 M
* 11 13C2 PFOA	415.00 > 370.00	5.067	5.085	-0.018		4694877	5.00		2612

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-27.d

Injection Date: 01-Jun-2022 17:17:36

Instrument ID: 30733

Lims ID: CCV_2_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 14

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

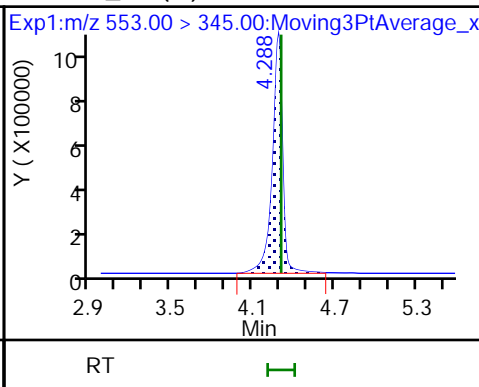
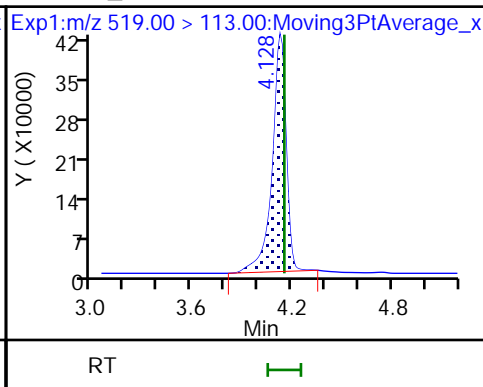
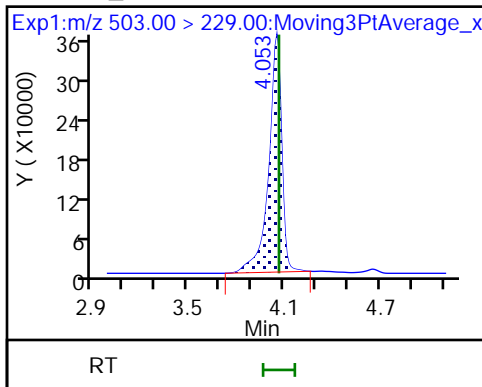
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

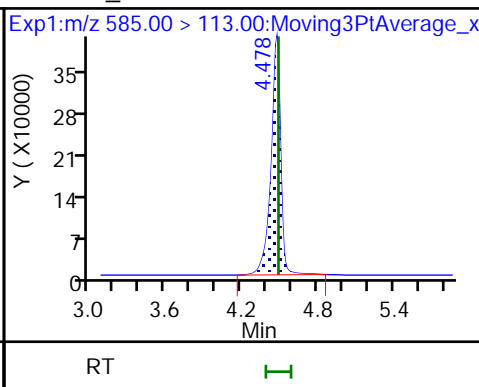
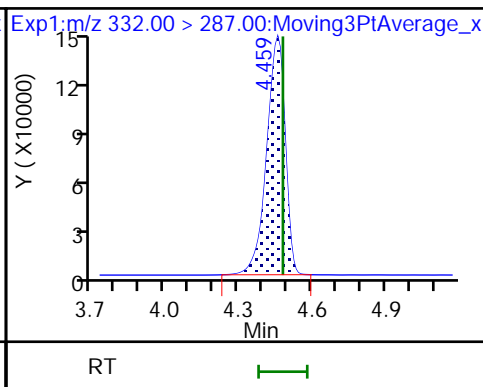
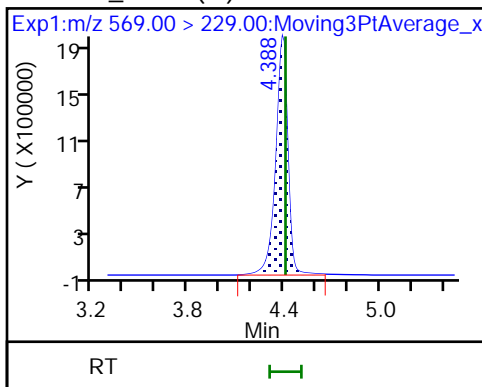
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

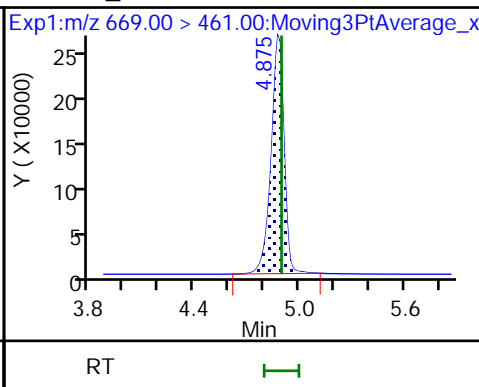
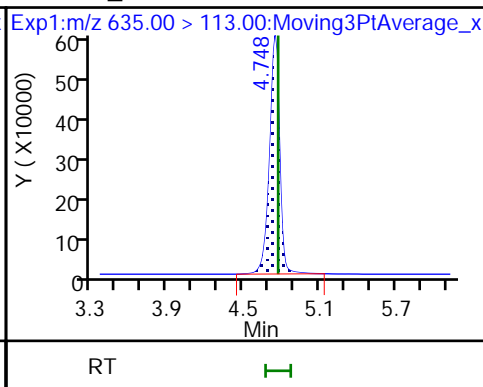
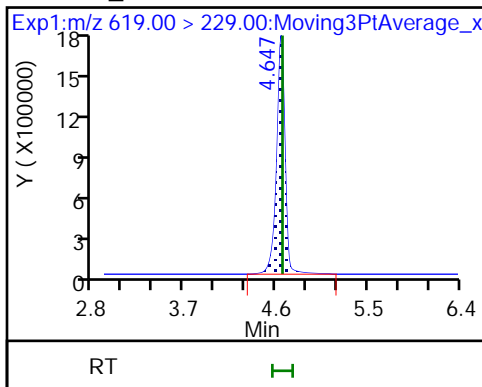
5 BFS_A4B



7 BFS_AB3

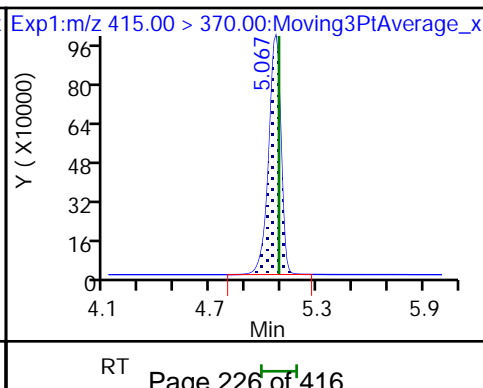
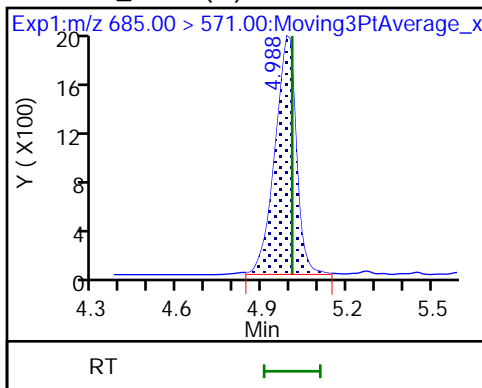
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

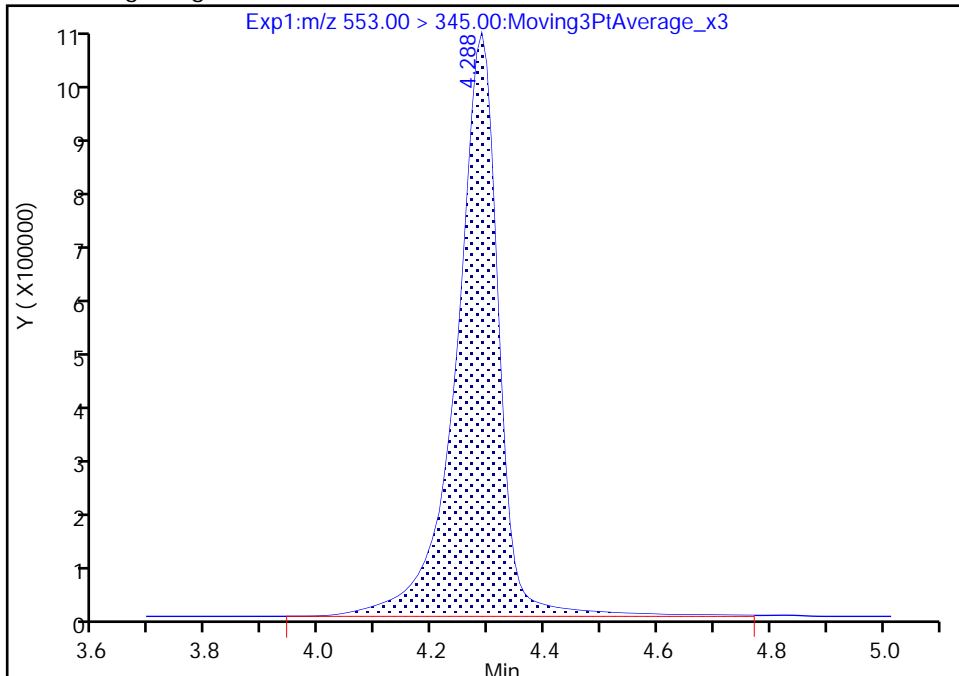
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-27.d
Injection Date: 01-Jun-2022 17:17:36 Instrument ID: 30733
Lims ID: CCV 2_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

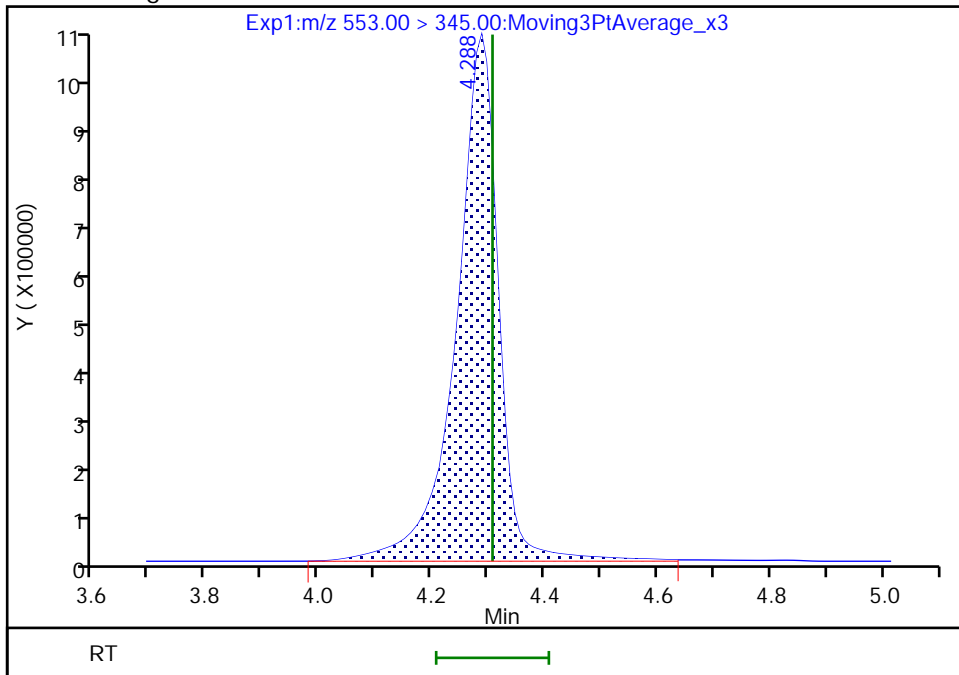
RT: 4.29
Area: 5237593
Amount: 15.093363
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 5217323
Amount: 15.034629
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:39:41
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 227 of 416

Eurofins Lancaster Laboratories Environment Testing, LLC

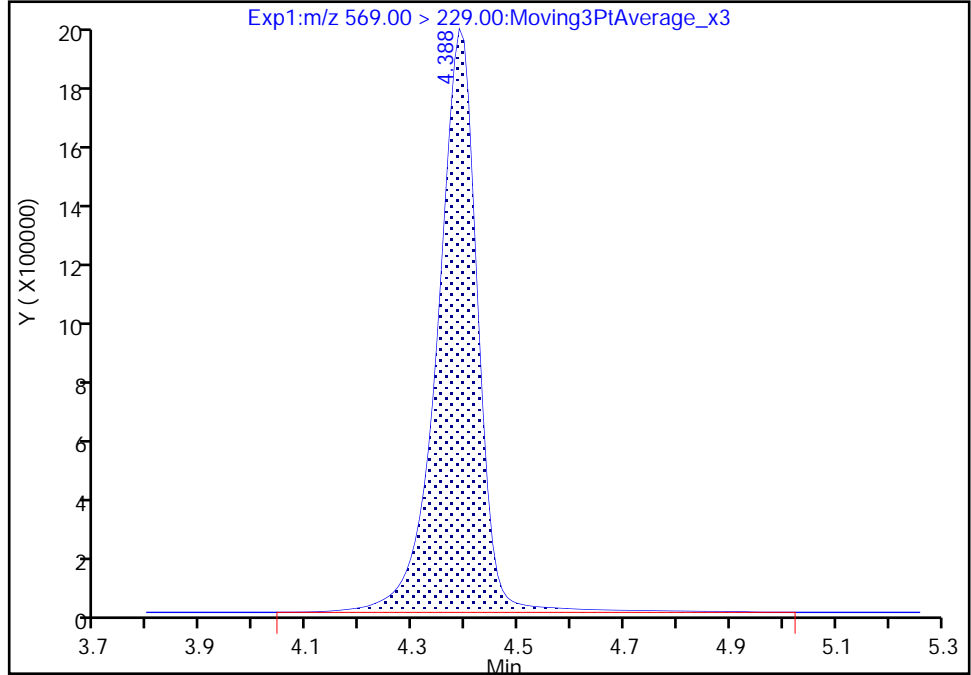
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Injection Date: 01-Jun-2022 17:17:36 Instrument ID: 30733
Lims ID: CCV_2_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

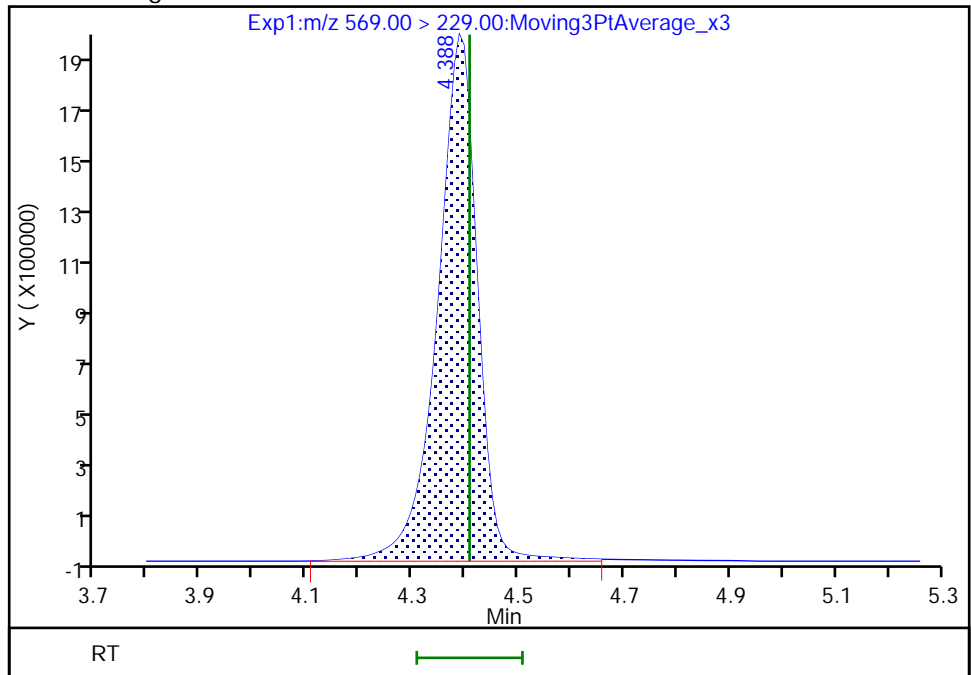
RT: 4.39
Area: 10092284
Amount: 33.601602
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 10030977
Amount: 33.394340
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:39:48
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

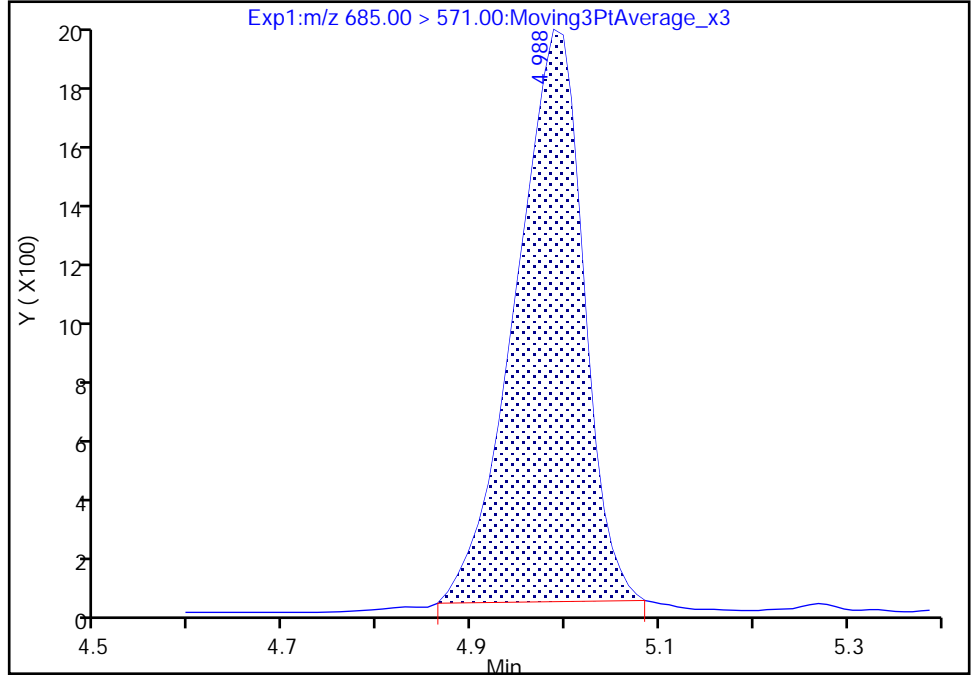
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Injection Date: 01-Jun-2022 17:17:36 Instrument ID: 30733
Lims ID: CCV 2_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

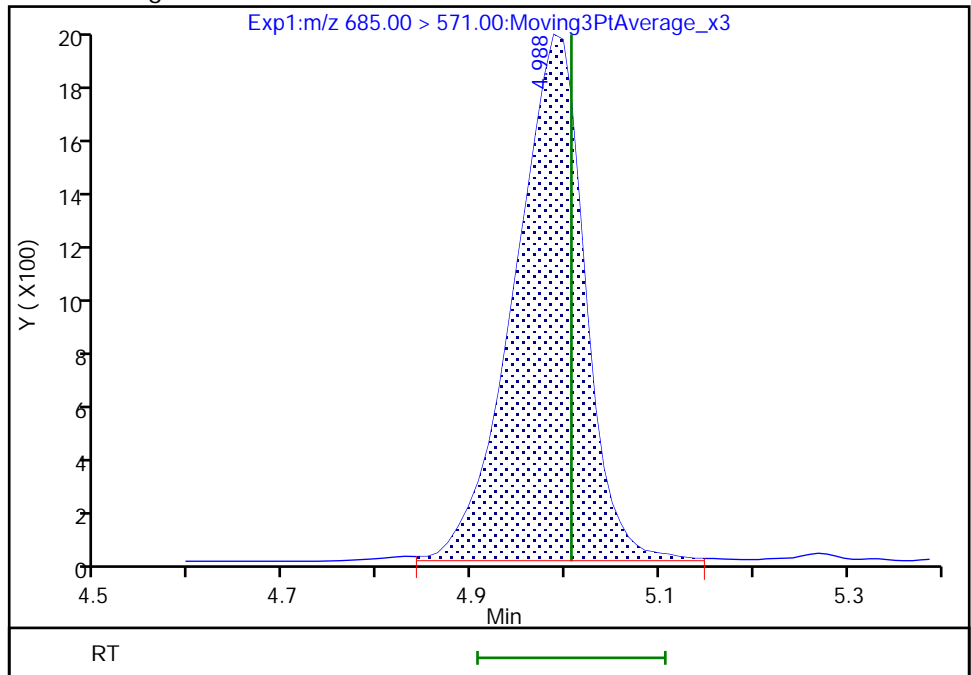
RT: 4.99
Area: 9396
Amount: 0.610502
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 9925
Amount: 0.644873
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:39:57
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/25 Calibration Date: 06/01/2022 19:36
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-38.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.274		8.35	8.91	-6.2	30.0
BFS_A3B	LID1F		3.422		9.29	9.95	-6.6	30.0
BFS_B3	Q2IDF		2.241		31.1	31.7	-1.9	30.0
BFS_A2B2	Q2IDF		1.972		70.0	69.4	0.8	30.0
BFS_A4B	LID1F		5.227		5.75	5.50	4.5	30.0
BFS_AB3	Q2IDF		1.811		73.5	74.4	-1.1	30.0
BFS_A3B2	LID1F		3.463		13.8	13.1	5.2	30.0
BFS_B4	LID1F		1.097		18.5	17.3	7.0	30.0
BFS_A2B3	LID1F		0.0966		1.24	1.31	-5.2	30.0
13C3 HFPO-DA	Ave	0.1618	0.1591		4.91	5.00	-1.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-38.d
 Lims ID: CCV 3_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 19:36:20 ALS Bottle#: 8 Worklist Smp#: 25
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:40:35

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.055	4.066	-0.011	0.909	4062342	8.35	93.8	7465
2 BFS_A3B	519.00 > 113.00	4.130	4.154	-0.024	0.926	4745311	9.29	93.4	285
3 BFS_B3	553.00 > 345.00	4.282	4.307	-0.025	0.960	9896867	31.1	98.1	1305
4 BFS_A2B2	569.00 > 229.00	4.390	4.407	-0.017	0.984	19067527	70.0	101	976 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.462	4.481	-0.019	0.881	696568	4.91	98.3	2090
5 BFS_A4B	585.00 > 113.00	4.471	4.490	-0.019	1.002	4005732	5.75	104	1951
7 BFS_AB3	619.00 > 229.00	4.650	4.660	-0.010	1.042	18773082	73.5	98.9	329768
8 BFS_A3B2	635.00 > 113.00	4.749	4.772	-0.023	1.064	6319337	13.8	105	1748
9 BFS_B4	669.00 > 461.00	4.875	4.897	-0.022	1.092	2642121	18.5	107	2293
10 BFS_A2B3	685.00 > 571.00	4.987	5.006	-0.019	1.118	17621	1.24	94.8	411 M
* 11 13C2 PFOA	415.00 > 370.00	5.067	5.085	-0.018		4378964	5.00		2582

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-38.d

Injection Date: 01-Jun-2022 19:36:20

Instrument ID: 30733

Lims ID: CCV 3_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 25

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

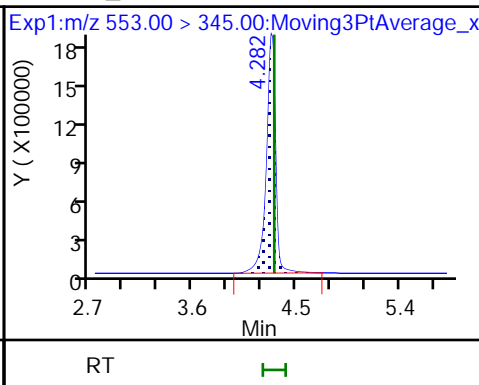
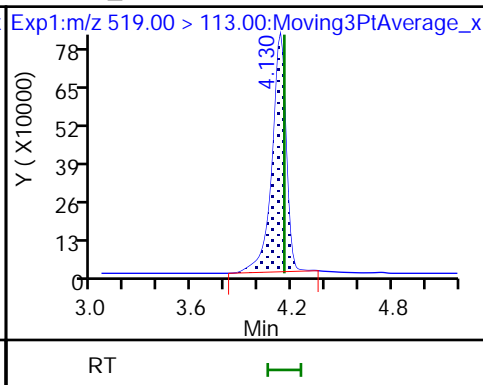
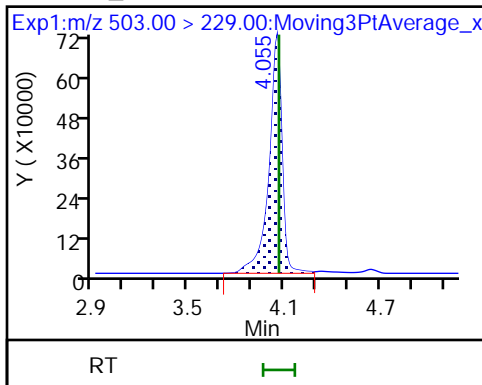
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

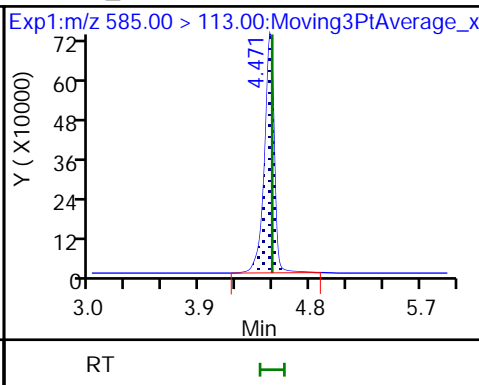
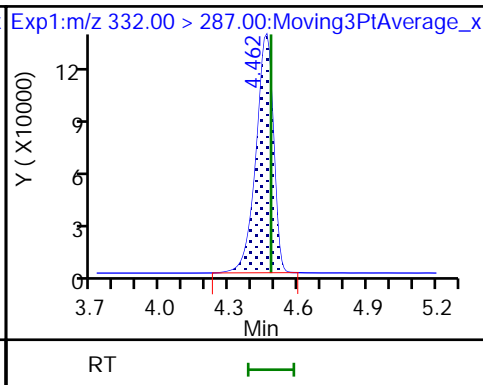
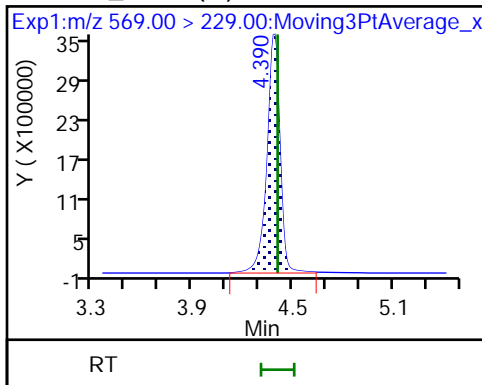
3 BFS_B3



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

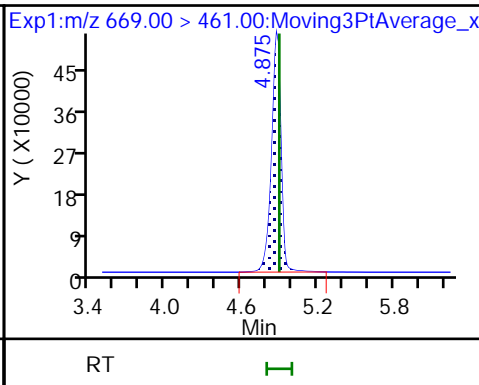
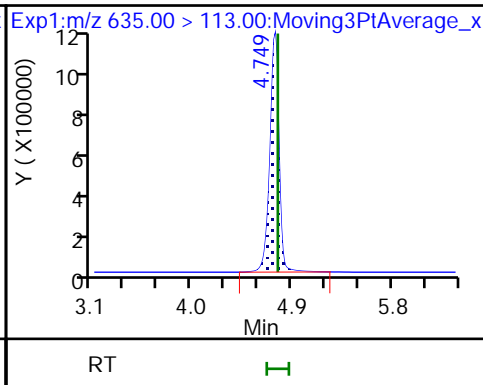
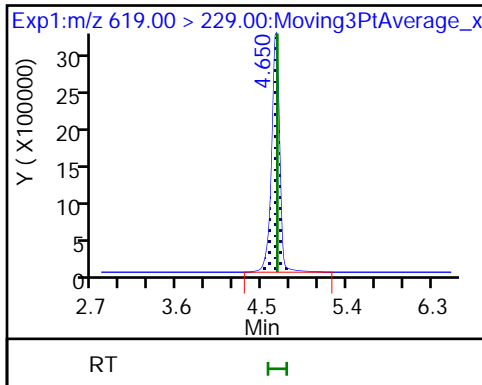
5 BFS_A4B



7 BFS_AB3

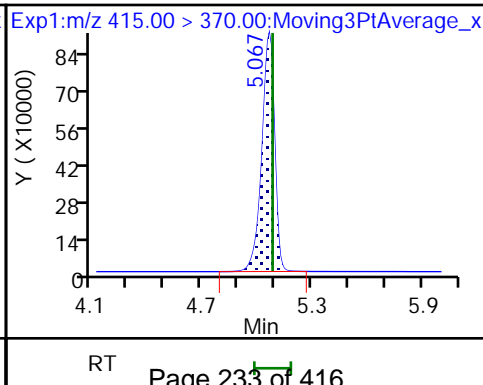
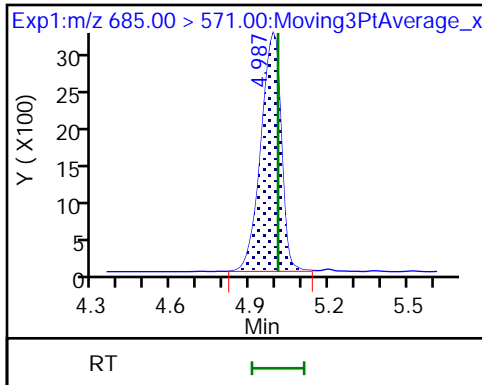
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

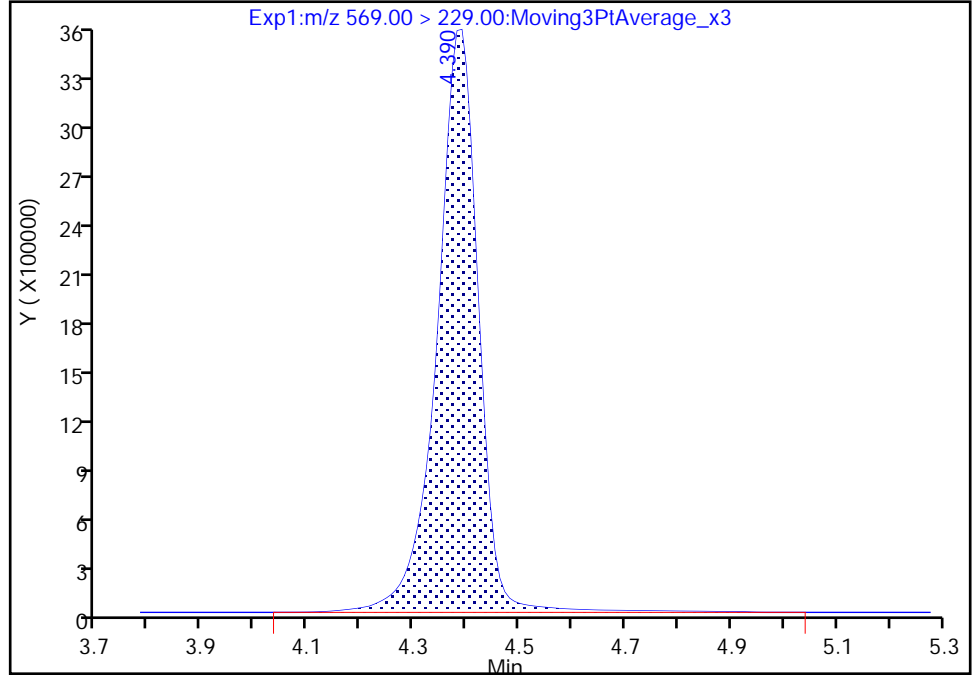
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Injection Date: 01-Jun-2022 19:36:20 Instrument ID: 30733
Lims ID: CCV 3_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 25
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

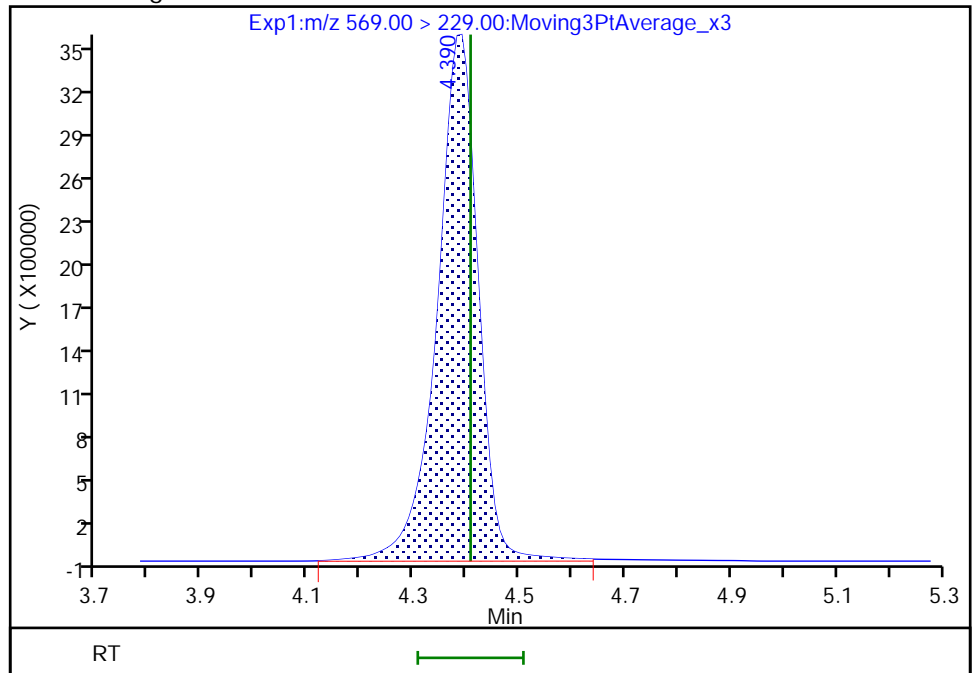
RT: 4.39
Area: 19189608
Amount: 70.433255
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 19067527
Amount: 69.970203
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

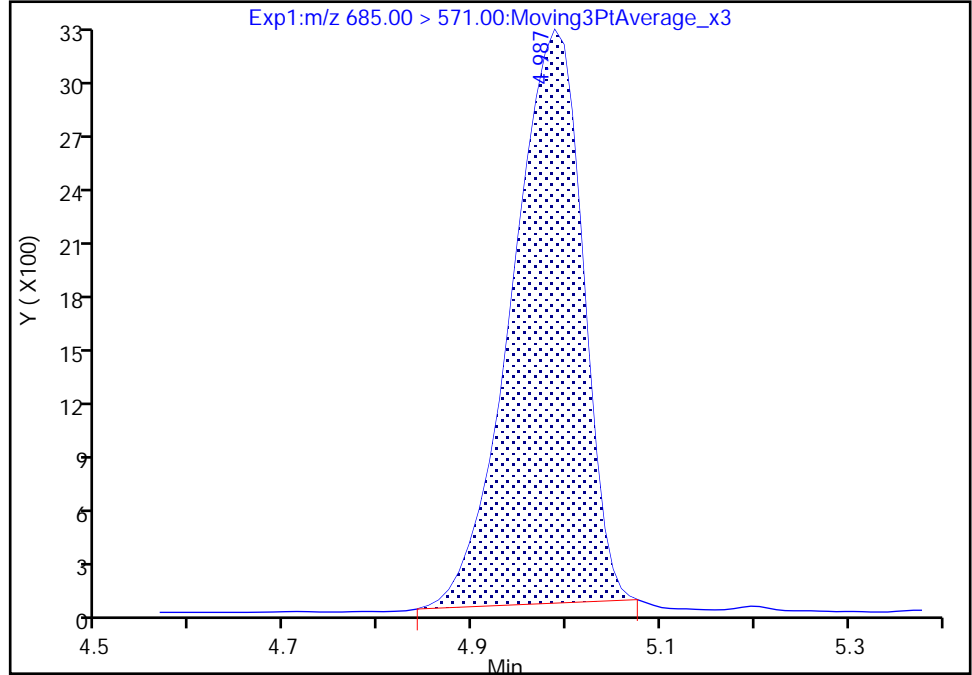
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-38.d
Injection Date: 01-Jun-2022 19:36:20 Instrument ID: 30733
Lims ID: CCV 3_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 25
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

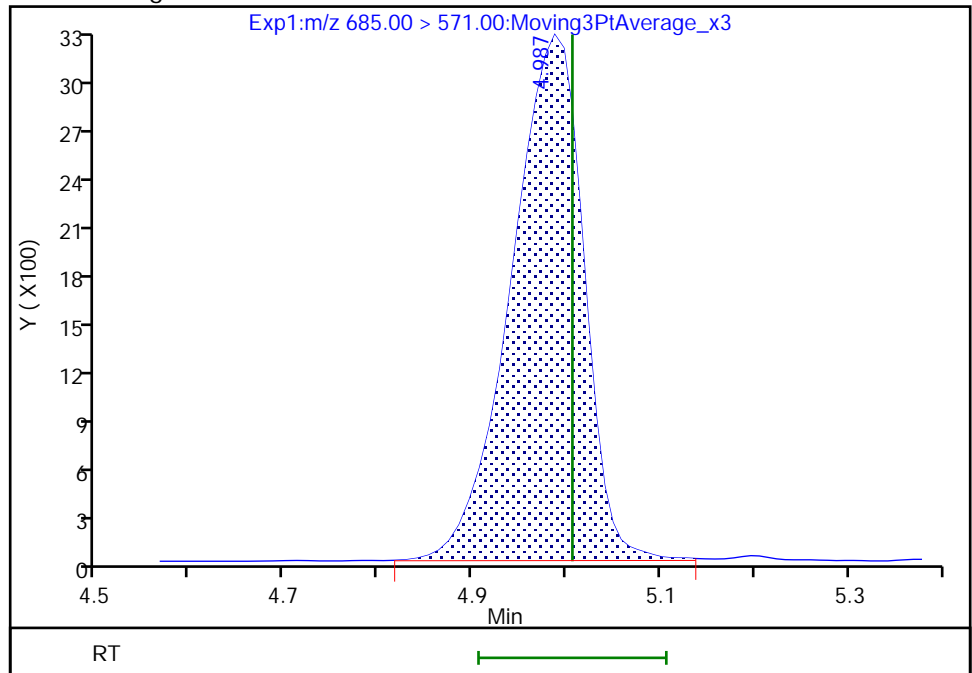
RT: 4.99
Area: 16922
Amount: 1.191817
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 17621
Amount: 1.241048
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:40:31
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-256031/1-A

Matrix: Water Lab File ID: 22JUN01BFS-15.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 14:46

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-15.d
 Lims ID: MB 410-256031/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2022 14:46:18 ALS Bottle#: 13 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-256031/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:41:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.472	4.481	-0.009	0.881	707216	4.71	94.2	2532
* 11 13C2 PFOA	415.00 > 370.00	5.078	5.085	-0.007		4638761	5.00		2979

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-15.d

Injection Date: 01-Jun-2022 14:46:18

Instrument ID: 30733

Lims ID: MB 410-256031/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

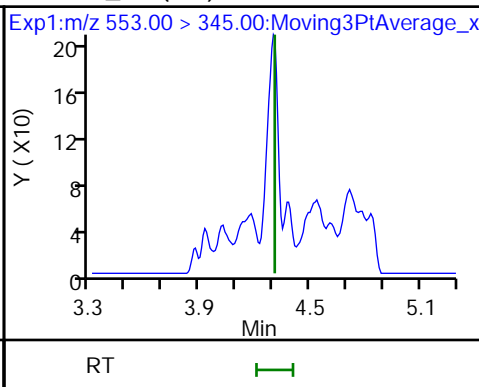
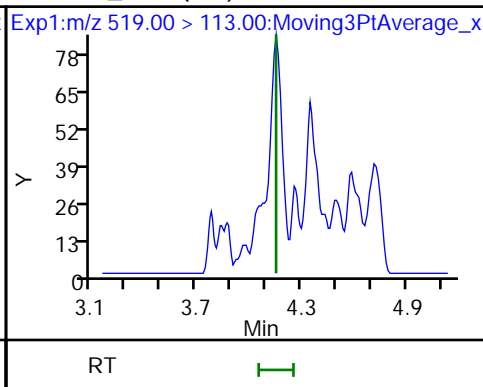
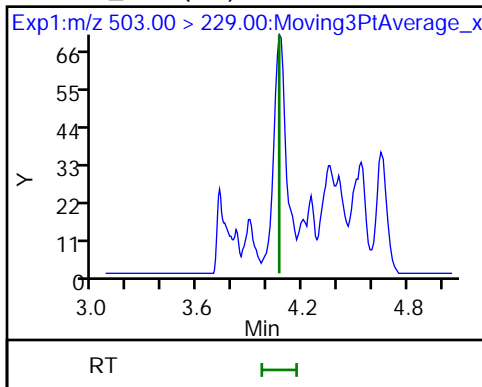
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

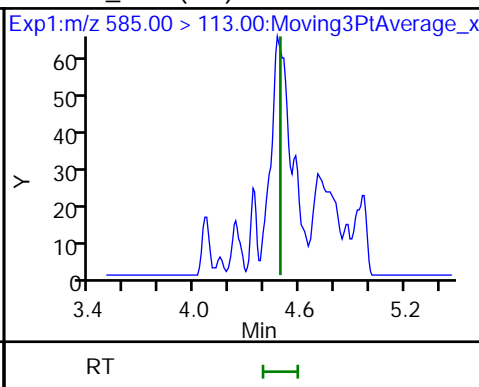
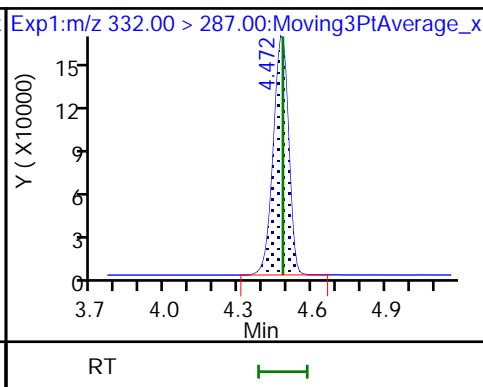
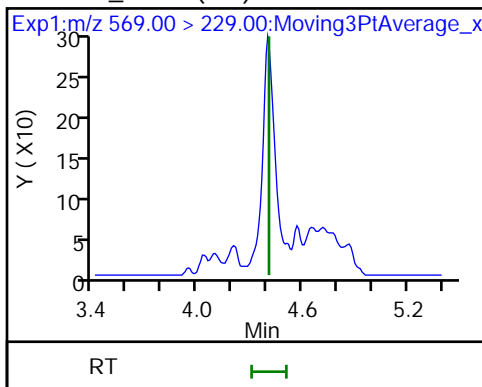
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

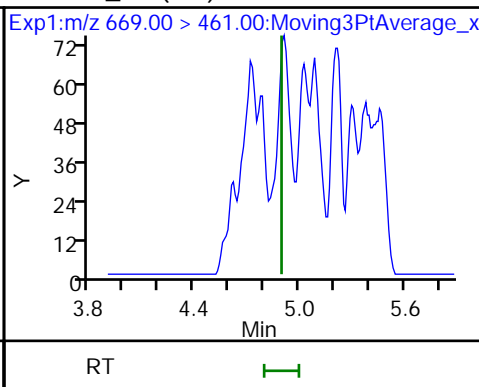
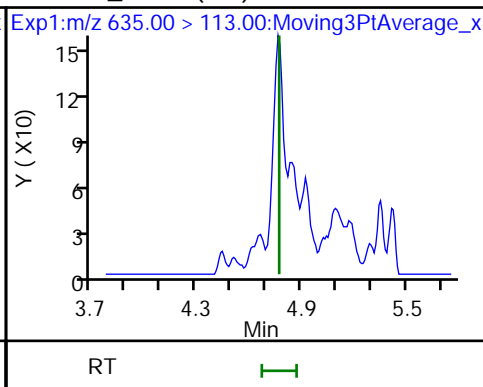
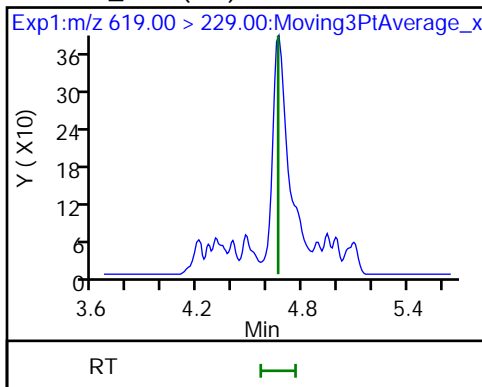
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

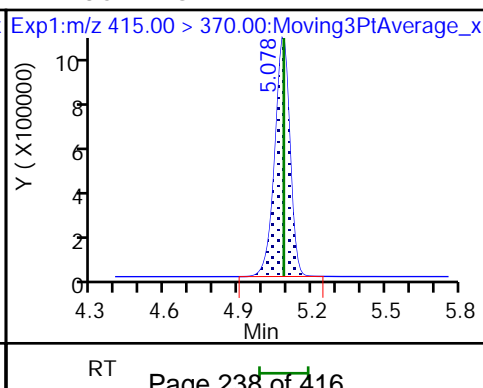
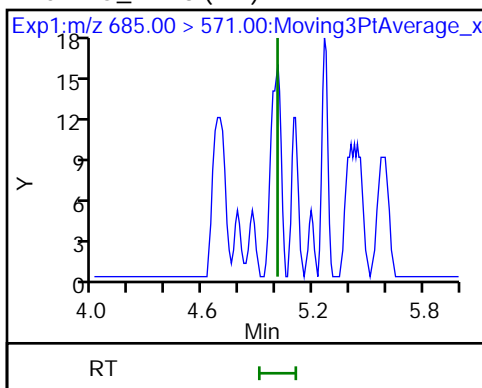
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-260772/11

Matrix: Water Lab File ID: 22JUN01BFS-11.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 06/01/2022 13:55

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260772 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.247		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	0.268		0.025	0.013
STL02881	BFS_B3	0.116		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	79		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 01-Jun-2022 13:55:50 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:27:24
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
3 BFS_B3									M
553.00 > 345.00	4.299	4.307	-0.008	0.961	29693	0.1158		38.9	M
4 BFS_A2B2									M
569.00 > 229.00	4.399	4.407	-0.008	0.984	55323	0.2469		64.4	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.472	4.481	-0.009	0.881	554895	3.93	78.5	1739	
7 BFS_AB3									M
619.00 > 229.00	4.664	4.660	0.004	1.043	55923	0.2684		52.3	M
* 11 13C2 PFOA									
415.00 > 370.00	5.077	5.085	-0.008		4367531	5.00		2587	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00325 Amount Added: 50.00 Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d

Injection Date: 01-Jun-2022 13:55:50

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

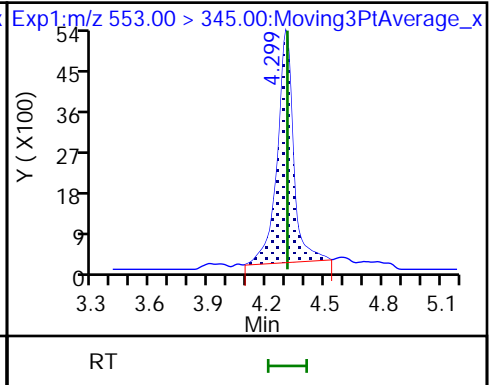
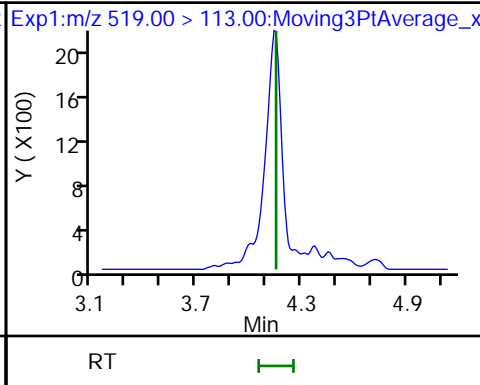
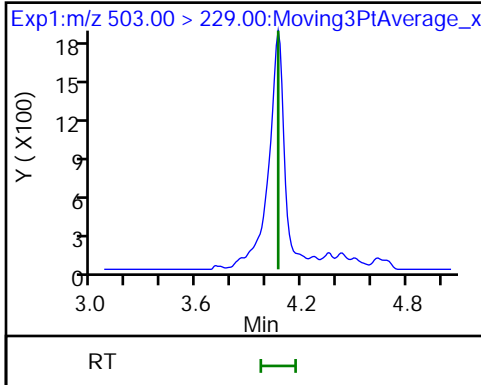
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

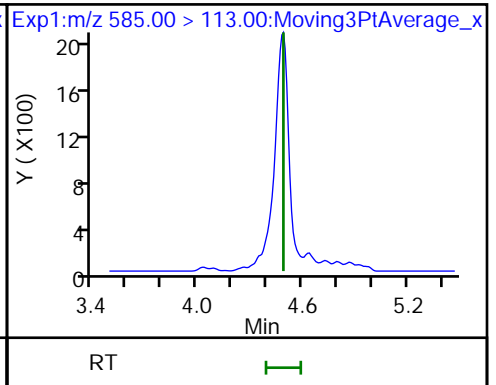
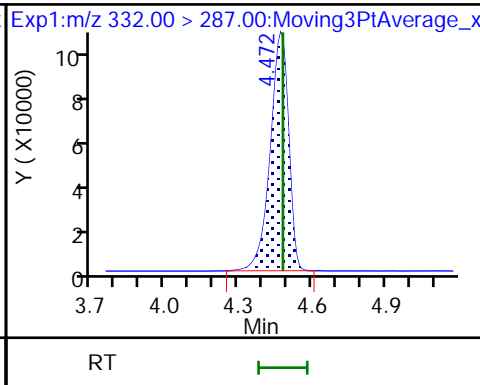
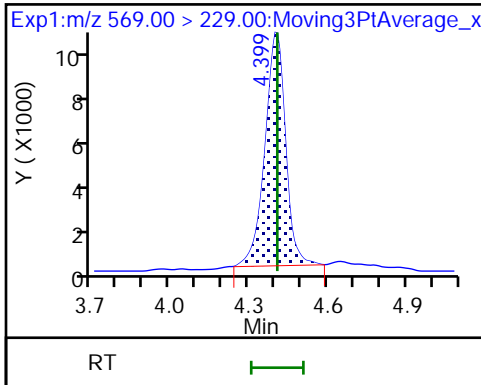
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

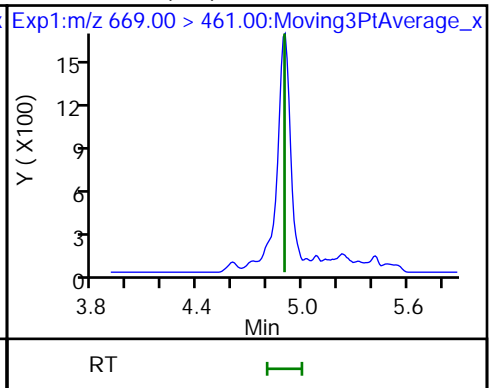
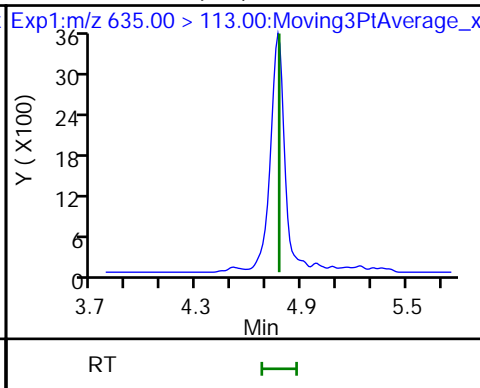
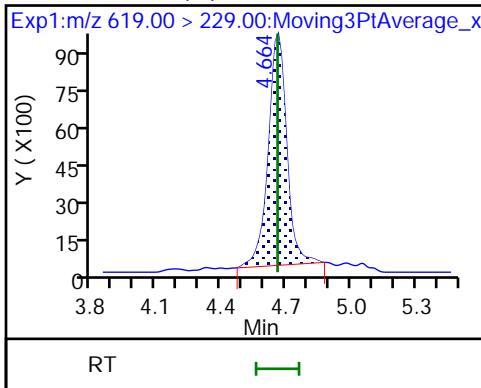
5 BFS_A4B (ND)



7 BFS_AB3 (M)

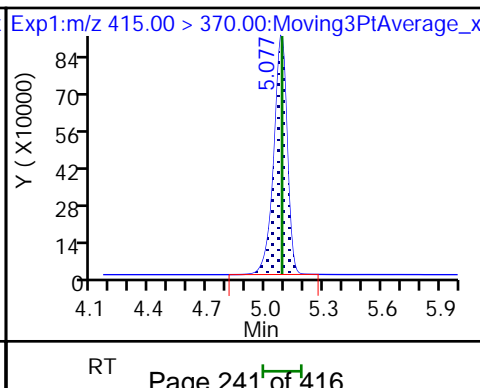
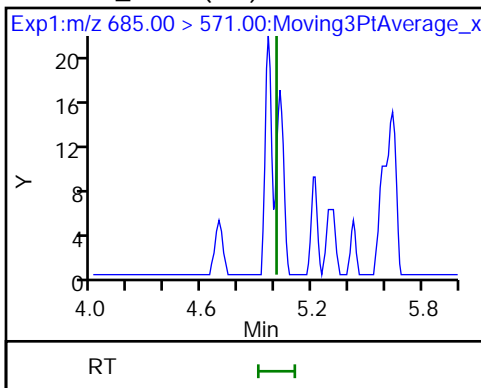
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

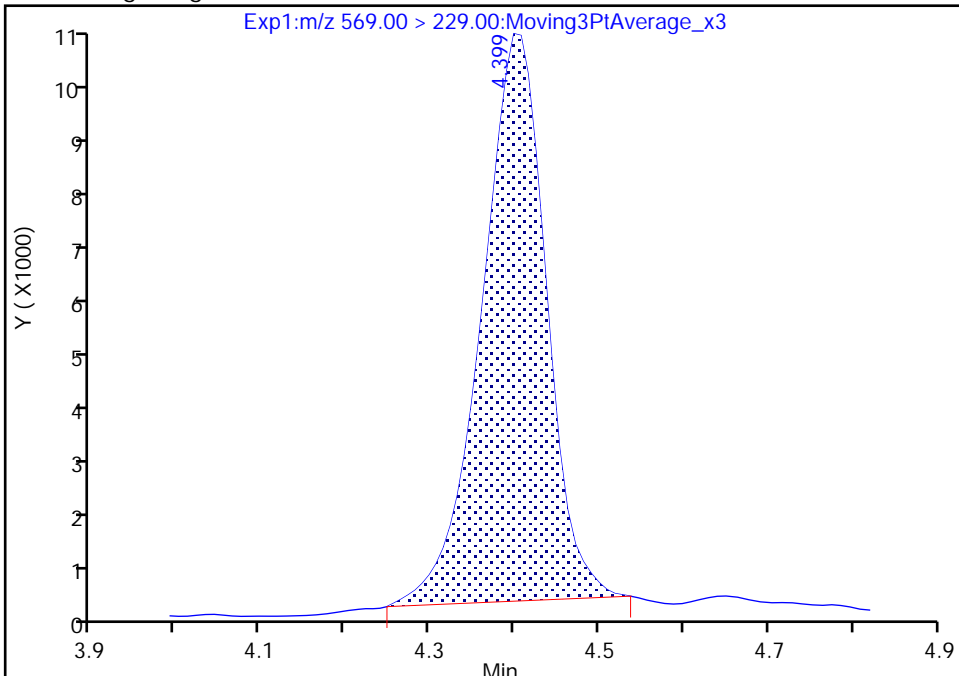
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d
Injection Date: 01-Jun-2022 13:55:50 Instrument ID: 30733
Lims ID: ICB
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 1 Worklist Smp#: 11
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

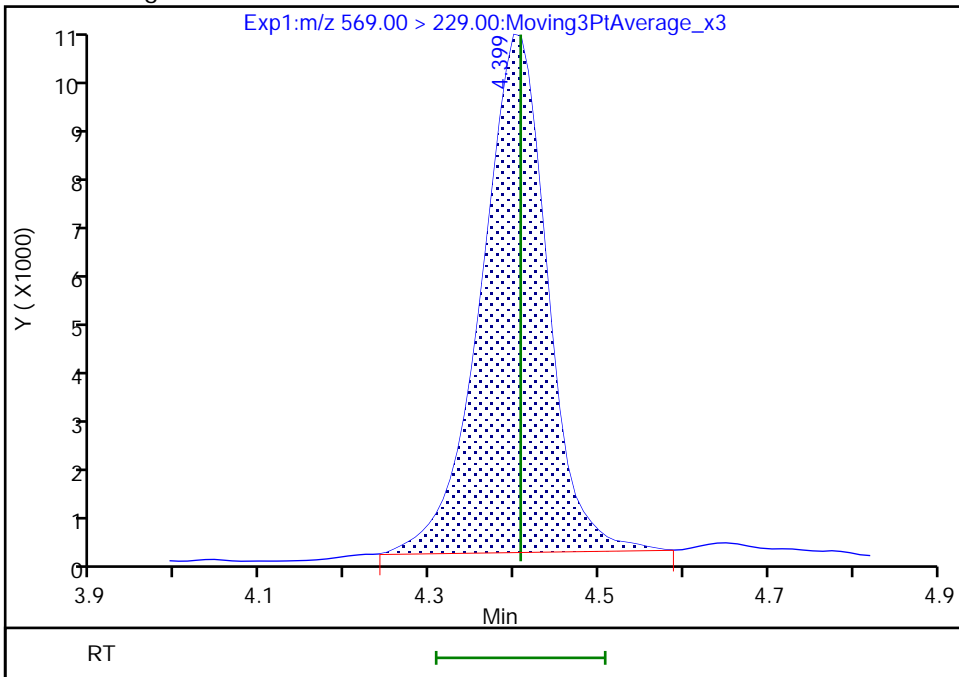
RT: 4.40
Area: 53415
Amount: 0.238379
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 55323
Amount: 0.246895
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:08
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 242 of 416

Eurofins Lancaster Laboratories Environment Testing, LLC

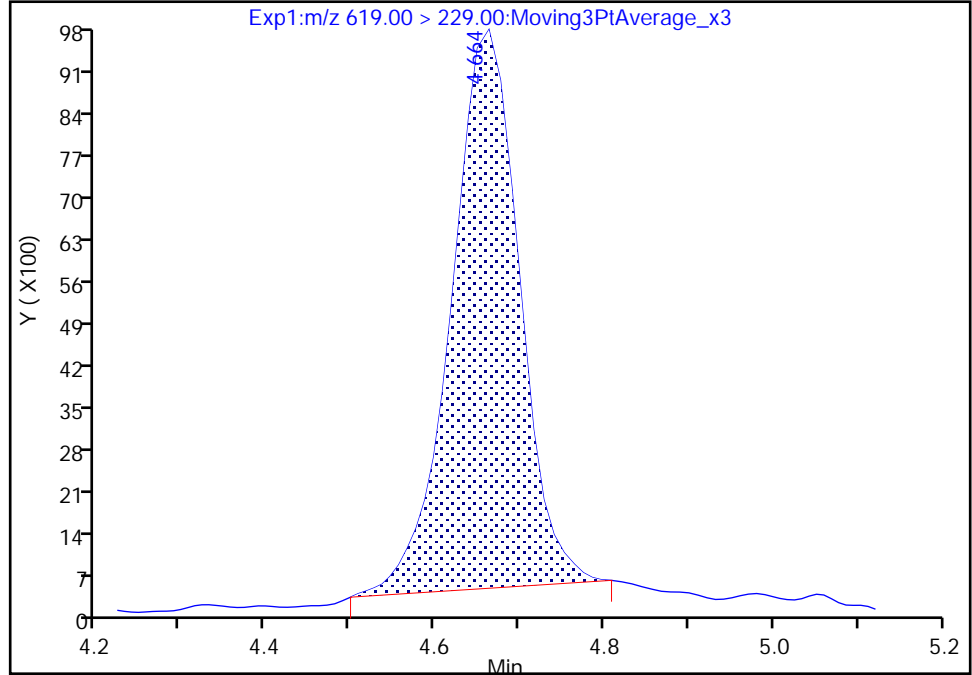
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d
Injection Date: 01-Jun-2022 13:55:50 Instrument ID: 30733
Lims ID: ICB
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 1 Worklist Smp#: 11
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

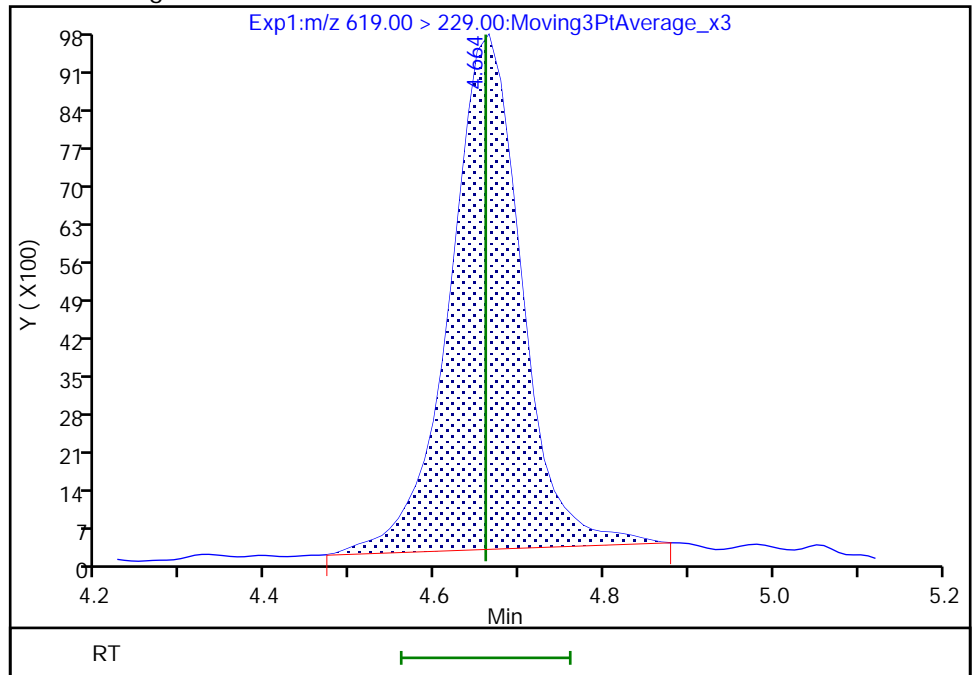
RT: 4.66
Area: 52034
Amount: 0.249765
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 55923
Amount: 0.268434
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:17
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

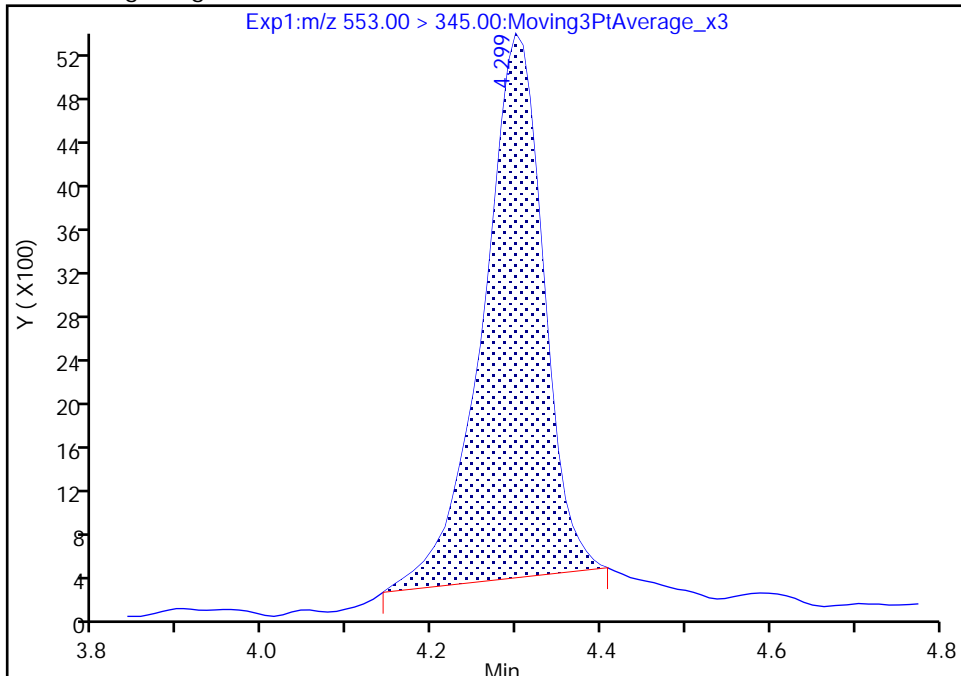
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d
Injection Date: 01-Jun-2022 13:55:50 Instrument ID: 30733
Lims ID: ICB
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 1 Worklist Smp#: 11
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

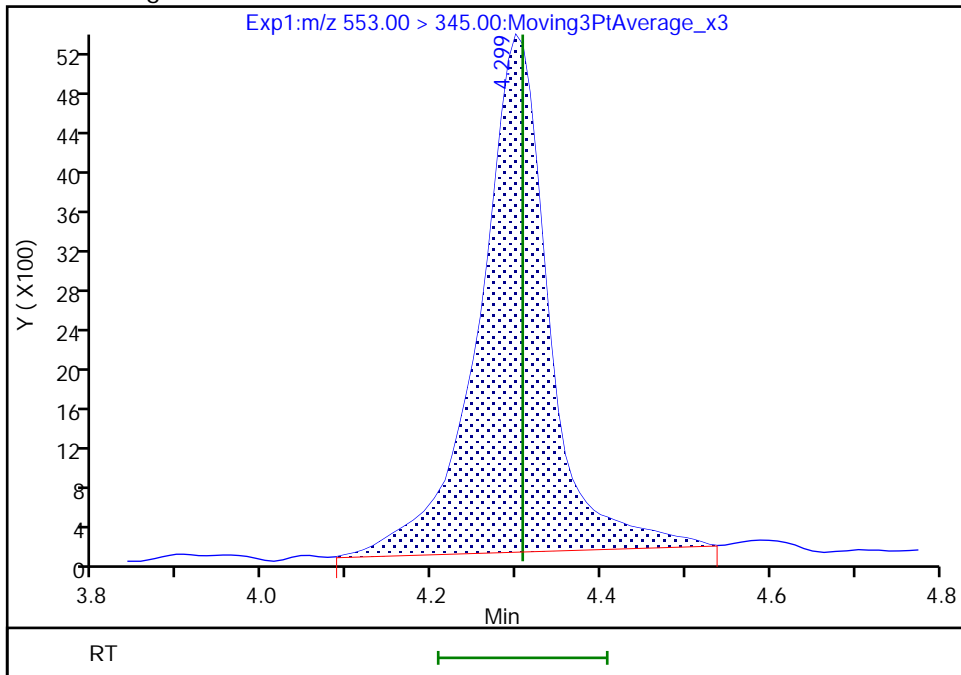
RT: 4.30
Area: 24413
Amount: 0.103256
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 29693
Amount: 0.115801
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-256031/2-A

Matrix: Water Lab File ID: 22JUN01BFS-16.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 14:58

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	289		1.4	0.40
STL02887	BFS_A2B3	5.59		1.1	0.40
STL02880	BFS_A3B	39.7		0.60	0.20
STL02885	BFS_A3B2	72.5		0.80	0.20
STL02883	BFS_A4B	23.9		0.40	0.20
STL02879	BFS_AB2	35.9		0.60	0.080
STL02884	BFS_AB3	329		1.5	0.40
STL02881	BFS_B3	138		0.70	0.30
STL02886	BFS_B4	75.4		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	81		50-150

Euofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-16.d
 Lims ID: LCS 410-256031/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2022 14:58:55 ALS Bottle#: 14 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-256031/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:42:38
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.066	4.066	0.0	0.909	4254434	8.98	112	15809
2 BFS_A3B	519.00 > 113.00	4.142	4.154	-0.012	0.926	4938887	9.93	111	549
3 BFS_B3	553.00 > 345.00	4.299	4.307	-0.008	0.961	10668636	34.5	121	11772
4 BFS_A2B2	569.00 > 229.00	4.399	4.407	-0.008	0.984	19124599	72.1	115	2002
D 6 13C3 HFPO-DA	332.00 > 287.00	4.471	4.481	-0.010	0.880	678318	4.06	81.2	2720
5 BFS_A4B	585.00 > 113.00	4.490	4.490	0.0	1.004	4051656	5.97	121	6439
7 BFS_AB3	619.00 > 229.00	4.660	4.660	0.0	1.042	20361323	82.1	123	11726
8 BFS_A3B2	635.00 > 113.00	4.761	4.772	-0.011	1.065	8100842	18.1	154	3771
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.095	2623178	18.9	121	2333
10 BFS_A2B3	685.00 > 571.00	5.006	5.006	0.0	1.119	19326	1.40	119	572 M
* 11 13C2 PFOA	415.00 > 370.00	5.084	5.085	-0.001		5159877	5.00		4258 M

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-16.d

Injection Date: 01-Jun-2022 14:58:55

Instrument ID: 30733

Lims ID: LCS 410-256031/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

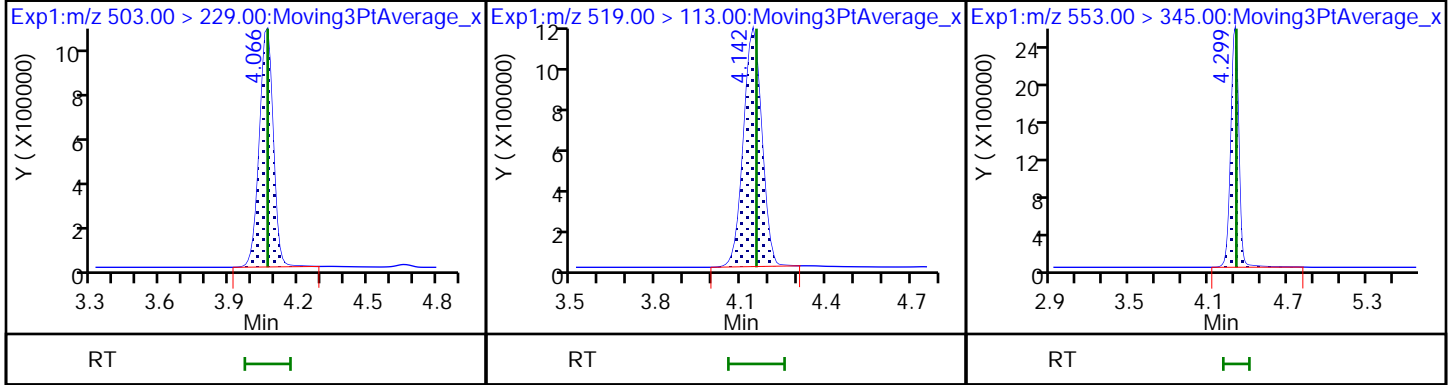
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

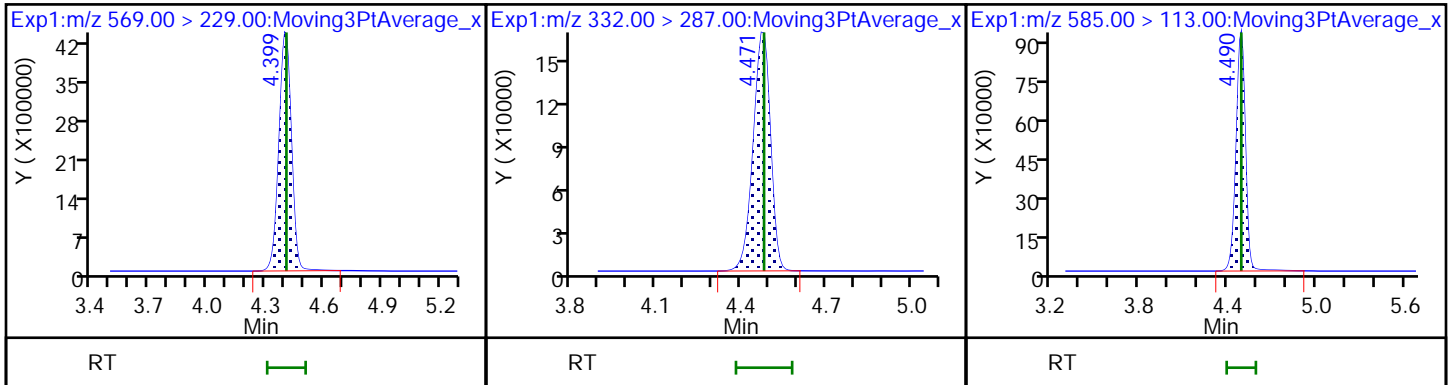
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

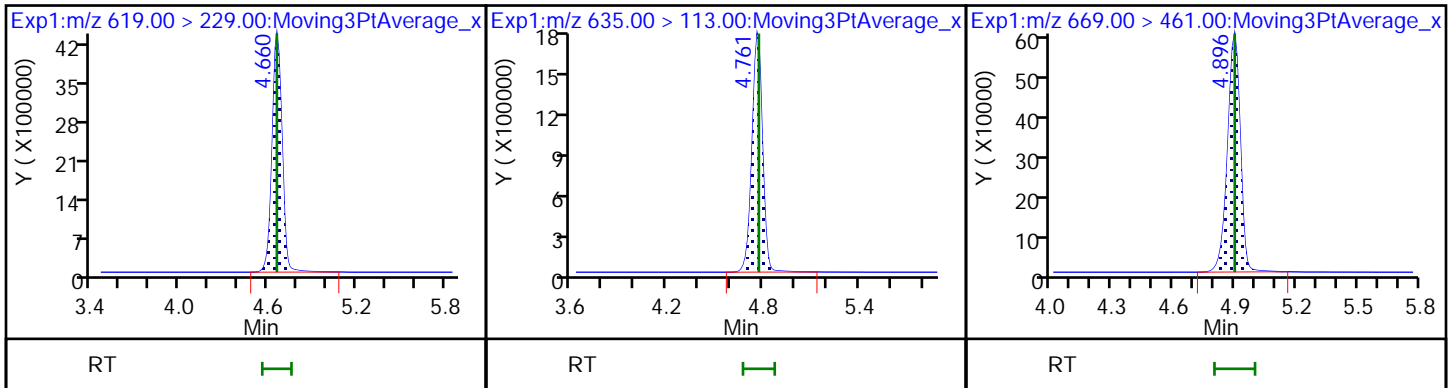
5 BFS_A4B



7 BFS_AB3

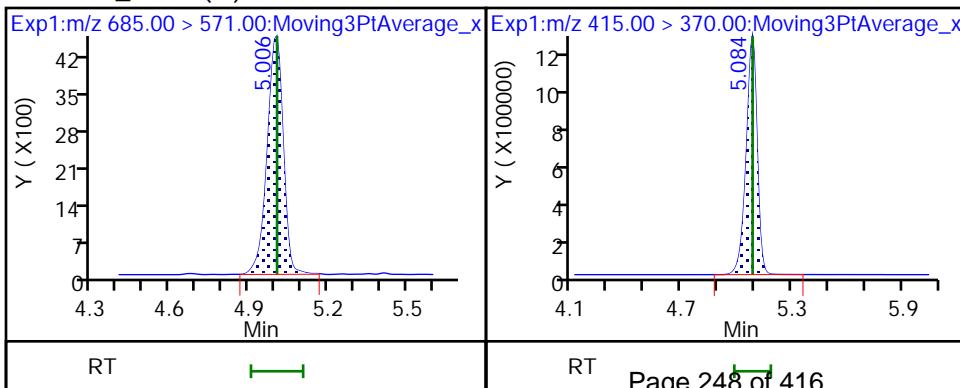
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

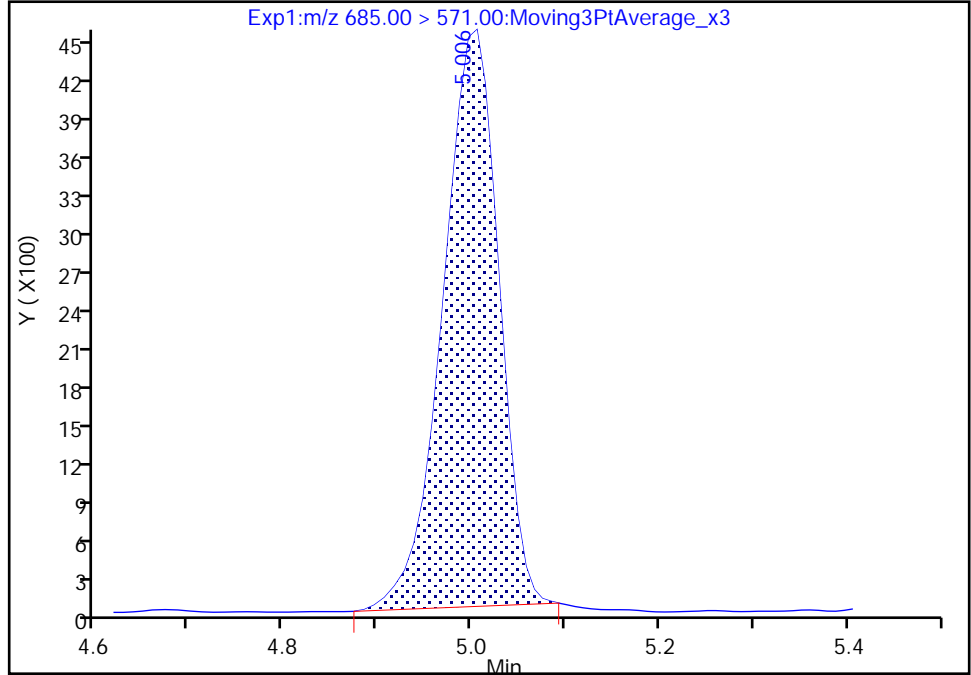
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-16.d
Injection Date: 01-Jun-2022 14:58:55 Instrument ID: 30733
Lims ID: LCS 410-256031/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 3
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

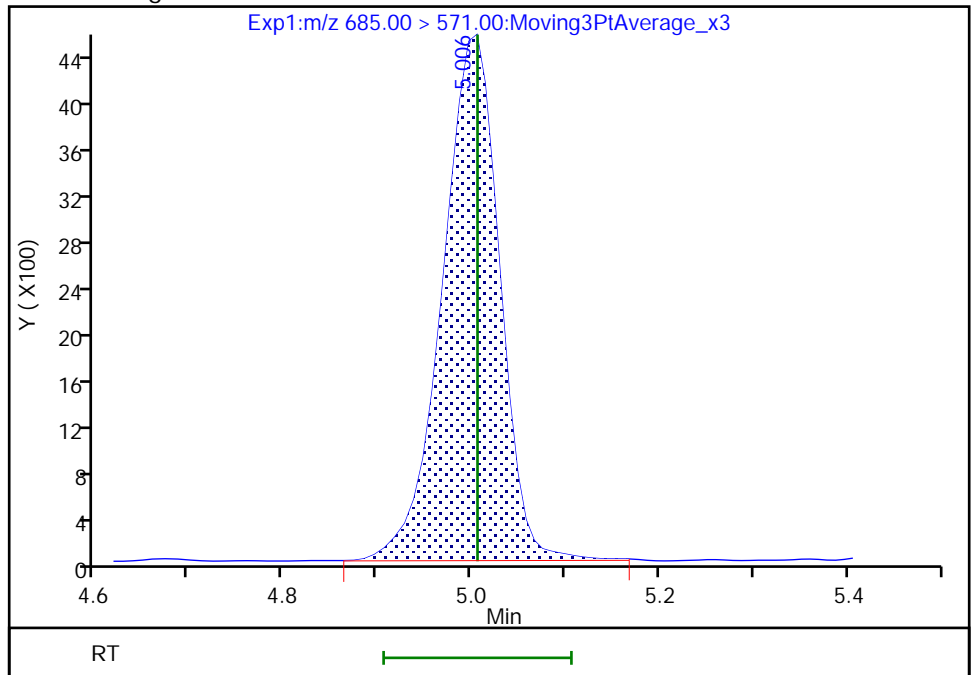
RT: 5.01
Area: 18738
Amount: 1.355225
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 19326
Amount: 1.397752
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:41:51
Audit Action: Manually Integrated

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Start Date: 06/01/2022 11:47

Analysis Batch Number: 260772 End Date: 06/01/2022 14:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-260772/1		06/01/2022 11:47	1	22JUN01BFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-260772/2		06/01/2022 12:01	1	22JUN01BFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-260772/3		06/01/2022 12:13	1	22JUN01BFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-260772/4		06/01/2022 12:26	1	22JUN01BFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-260772/5		06/01/2022 12:39	1	22JUN01BFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-260772/6		06/01/2022 12:51	1	22JUN01BFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-260772/7		06/01/2022 13:04	1	22JUN01BFS-07.d	Gemini C18 50mm 3 (mm)
IC 410-260772/8		06/01/2022 13:16	1	22JUN01BFS-08.d	Gemini C18 50mm 3 (mm)
IC 410-260772/9		06/01/2022 13:29	1	22JUN01BFS-09.d	Gemini C18 50mm 3 (mm)
IC 410-260772/10		06/01/2022 13:42	1	22JUN01BFS-10.d	Gemini C18 50mm 3 (mm)
ICB 410-260772/11		06/01/2022 13:55	1	22JUN01BFS-11.d	Gemini C18 50mm 3 (mm)
ICV 410-260772/12		06/01/2022 14:08	1	22JUN01BFS-12.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Start Date: 06/01/2022 14:33

Analysis Batch Number: 260981 End Date: 06/01/2022 22:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-260981/1		06/01/2022 14:33	1	22JUN01BFS-14.d	Gemini C18 50mm 3 (mm)
MB 410-256031/1-A		06/01/2022 14:46	1	22JUN01BFS-15.d	Gemini C18 50mm 3 (mm)
LCS 410-256031/2-A		06/01/2022 14:58	1	22JUN01BFS-16.d	Gemini C18 50mm 3 (mm)
410-83412-1	MW-110S	06/01/2022 15:11	1	22JUN01BFS-17.d	Gemini C18 50mm 3 (mm)
410-83412-2	MW-110D	06/01/2022 15:24	1	22JUN01BFS-18.d	Gemini C18 50mm 3 (mm)
410-83412-3	MW-112S	06/01/2022 15:36	1	22JUN01BFS-19.d	Gemini C18 50mm 3 (mm)
410-83412-4	MW-112D	06/01/2022 15:49	1	22JUN01BFS-20.d	Gemini C18 50mm 3 (mm)
410-83412-5	EB_05092022	06/01/2022 16:02	1	22JUN01BFS-21.d	Gemini C18 50mm 3 (mm)
410-83412-6	AB_05092022	06/01/2022 16:14	1	22JUN01BFS-22.d	Gemini C18 50mm 3 (mm)
410-83412-7	MW-109S-PDB	06/01/2022 16:27	1	22JUN01BFS-23.d	Gemini C18 50mm 3 (mm)
410-83412-7 DL	MW-109S-PDB DL	06/01/2022 16:39	10	22JUN01BFS-24.d	Gemini C18 50mm 3 (mm)
410-83412-8	MW-111S-PDB	06/01/2022 16:52	1	22JUN01BFS-25.d	Gemini C18 50mm 3 (mm)
410-83412-8 DL	MW-111S-PDB DL	06/01/2022 17:04	10	22JUN01BFS-26.d	Gemini C18 50mm 3 (mm)
CCV 410-260981/14		06/01/2022 17:17	1	22JUN01BFS-27.d	Gemini C18 50mm 3 (mm)
410-83412-9	MW-111D-PDB	06/01/2022 17:30	1	22JUN01BFS-28.d	Gemini C18 50mm 3 (mm)
410-83412-10	MW-101S	06/01/2022 17:42	1	22JUN01BFS-29.d	Gemini C18 50mm 3 (mm)
410-83412-11	MW-101D	06/01/2022 17:55	1	22JUN01BFS-30.d	Gemini C18 50mm 3 (mm)
410-83412-12	EB_05102022	06/01/2022 18:08	1	22JUN01BFS-31.d	Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 18:20	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 18:33	10		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 18:45	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 18:58	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 19:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 19:23	1		Gemini C18 50mm 3 (mm)
CCV 410-260981/25		06/01/2022 19:36	1	22JUN01BFS-38.d	Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 19:48	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 20:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 20:15	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 20:27	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 20:40	1		Gemini C18 50mm 3 (mm)
CCV 410-260981/31		06/01/2022 20:53	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 21:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 21:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 21:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 21:43	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 21:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 22:08	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 22:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 22:34	1		Gemini C18 50mm 3 (mm)
CCV 410-260981/40		06/01/2022 22:46	1		Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 256031 Batch Start Date: 05/17/22 09:01 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00013	PFC_SS 00010
MB 410-256031/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-256031/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-83412-A-1	MW-110S	3535, BFS	T	307.25 g	27.34 g	279.9 mL	1 mL		0.1 mL
410-83412-A-2	MW-110D	3535, BFS	T	308.59 g	27.37 g	281.2 mL	1 mL		0.1 mL
410-83412-A-3	MW-112S	3535, BFS	T	316.56 g	27.43 g	289.1 mL	1 mL		0.1 mL
410-83412-A-4	MW-112D	3535, BFS	T	299.16 g	27.25 g	271.9 mL	1 mL		0.1 mL
410-83412-A-5	EB_05092022	3535, BFS	T	280.38 g	27.66 g	252.7 mL	1 mL		0.1 mL
410-83412-A-6	AB_05092022	3535, BFS	T	294.42 g	28.04 g	266.4 mL	1 mL		0.1 mL
410-83412-A-7	MW-109S-PDB	3535, BFS	T	308.92 g	28.25 g	280.7 mL	1 mL		0.1 mL
410-83412-A-8	MW-111S-PDB	3535, BFS	T	313.32 g	28.14 g	285.2 mL	1 mL		0.1 mL
410-83412-A-9	MW-111D-PDB	3535, BFS	T	312.31 g	27.05 g	285.3 mL	1 mL		0.1 mL
410-83412-A-10	MW-101S	3535, BFS	T	312.62 g	27.88 g	284.7 mL	1 mL		0.1 mL
410-83412-A-11	MW-101D	3535, BFS	T	312.15 g	27.27 g	284.9 mL	1 mL		0.1 mL
410-83412-A-12	EB_05102022	3535, BFS	T	303.57 g	27.17 g	276.4 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-256031/1		3535, BFS							
LCS 410-256031/2		3535, BFS							
410-83412-A-1	MW-110S	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-A-2	MW-110D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-A-3	MW-112S	3535, BFS	T	Discolored, Particulate, Vacuum was applied					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 256031 Batch Start Date: 05/17/22 09:01 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-83412-A-4	MW-112D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-A-5	EB_05092022	3535, BFS	T						
410-83412-A-6	AB_05092022	3535, BFS	T						
410-83412-A-7	MW-109S-PDB	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-A-8	MW-111S-PDB	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-A-9	MW-111D-PDB	3535, BFS	T	Discolored, Particulate, Vacuum was applied, Cloudy					
410-83412-A-10	MW-101S	3535, BFS	T	Discolored, Particulate, Vacuum was applied,					
410-83412-A-11	MW-101D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-A-12	EB_05102022	3535, BFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 256031 Batch Start Date: 05/17/22 09:01 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6666672-01
Balance ID	C125996498
Manifold ID	17 & 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8 & 3
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217031
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210130-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/02/2022

Batch Number: 410-256031
Method Code: 410-3535_28D-410

Solid-Phase Extraction (SPE)

BFS



410-256031

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHS		Due Date	Analytical TAT	Div Rank	Comments	Sample Lab ID
				Rcvd	Adj1 Adj2					
1 MB-410-256031/1 N/A	N/A	300 g 50 g	250 mL 1 mL			N/A	N/A	N/A		MB-410-256031/1-A-1
2 LCS-410-256031/2 N/A	N/A	300 g 50 g	250 mL 1 mL			N/A	N/A	N/A		LCS-410-256031/2-A-1
3 410-83412-A-1 (BFS_IDA)	N/A (410-83412-1)	307.25 g 27.34 g	279.9 mL 1 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-1-A-1
4 410-83412-A-2 (BFS_IDA)	N/A (410-83412-1)	308.59 g 27.37 g	281.2 mL 1 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-2-A-1
5 410-83412-A-3 (BFS_IDA)	N/A (410-83412-1)	316.56 g 27.43 g	289.1 mL 1 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-3-A-1
6 410-83412-A-4 (BFS_IDA)	N/A (410-83412-1)	299.16 g 27.25 g	271.9 mL 1 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-4-A-1
7 410-83412-A-5 (BFS_IDA)	N/A (410-83412-1)	280.38 g 27.66 g	282.7 mL 1 mL			5/13/22	7_Days	4		410-83412-A-5-A-1
8 410-83412-A-6 (BFS_IDA)	N/A (410-83412-1)	294.42 g 28.04 g	266.4 mL 1 mL			5/13/22	7_Days	4		410-83412-A-6-A-1

Printed: 5/17/2022

N-Tmp. A, the returned 5/19/22

Reconstituted by SBC 20094

5/19/22

Page 1 of 7

anacaster Laboratories Environment Testing, LLC

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/02/2022

Sample ID	Weight (g)	Volume (mL)	Date	Days	Replicates	Notes
9 410-83412-A-7 (BFS_IDA)	N/A 808.92 g	N/A 280.7 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied
10 410-83412-A-8 (BFS_IDA)	N/A 28.25 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 813.32 g	285.2 mL				
11 410-83412-A-9 (BFS_IDA)	N/A 28.14 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy
	N/A 812.31 g	285.3 mL				
12 410-83412-A-10 (BFS_IDA)	N/A 27.05 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied.
	N/A 812.62 g	284.7 mL				
13 410-83412-A-11 (BFS_IDA)	N/A 27.88 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 812.15 g	284.9 mL				
14 410-83412-A-12 (BFS_IDA)	N/A 27.27 g	1 mL	5/13/22	7_Days	4	
	N/A 803.57 g	276.4 mL				
15 410-83867-A-1 (BFS_IDA)	N/A 27.17 g	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 812.50 g	283.8 mL				
16 410-83867-A-2 (BFS_IDA)	N/A 28.72 g	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 898.97 g	271.7 mL				
17 410-83867-A-3 (BFS_IDA)	N/A 27.25 g	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy
	N/A 894.93 g	266.3 mL				

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna



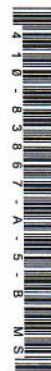





Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/02/2022

18	410-83867-A-4 (BFS_IDA)	N/A (410-83867-1)	28.61 g	1 mL							5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
			309.16 g												281.9 mL
19	410-83867-A-5 (BFS_IDA)	N/A (410-83867-1)	27.25 g	1 mL							5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied	
			290.09 g												263 mL
20	410-83867-A-5-MS (BFS_IDA)	N/A (410-83867-1)	27.09 g	1 mL							5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied	
			322.77 g												294.6 mL
21	410-83867-A-5-MSD (BFS_IDA)	N/A (410-83867-1)	28.16 g	1 mL							5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied	
			322.11 g												294.4 mL
22	410-83867-A-7 (BFS_IDA)	N/A (410-83867-1)	27.69 g	1 mL							5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
			328.60 g												300.7 mL
23	410-83867-A-8 (BFS_IDA)	N/A (410-83867-1)	27.89 g	1 mL							5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
			295.05 g												267.2 mL
24	410-83867-A-9 (BFS_IDA)	N/A (410-83867-1)	27.89 g	1 mL							5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
			312.24 g												284.3 mL
			27.95 g	1 mL											

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/02/2022

Batch Notes

pH Indicator ID	
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6666672-01
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	C125996498
Manifold ID	17 & 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8 & 3
Na2SO4 ID	
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217031
Milli-Q Reagent Water ID	House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/02/2022

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210130-058

Batch Comment

Comments

410-83412-A-11

Method Comments: Client note: HIGH TURBIDITY

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/02/2022

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-256031/1	PFC_SS_00010	.100 mL	1 mL		
LCS 410-256031/2	PFC_IN_BFS_00013	.045 mL	1 mL		
LCS 410-256031/2	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-1	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-2	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-3	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-4	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-5	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-6	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-7	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-8	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-9	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-10	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-11	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-12	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-1	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-2	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-3	PFC_SS_00010	.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/02/2022

410-83867-A-4	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-5	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-5 MS	PFC_IN_BFS_00013	.045 mL	1 mL		
410-83867-A-5 MS	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-5 MSD	PFC_IN_BFS_00013	.045 mL	1 mL		
410-83867-A-5 MSD	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-7	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-8	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-9	PFC_SS_00010	.100 mL	1 mL		

Reagent	Amount/Units	Other Reagents:	Lot#:
<i>Internal Standard</i>	<i>201</i>		<i>PFC 15. MW. 0328</i>
<i>Dilution 05/20/22</i>			

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 260772 Batch Start Date: 06/01/22 11:47 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00325	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-260772/1		BFS					200 uL		
IC 410-260772/2		BFS							200 uL
IC 410-260772/3		BFS							
IC 410-260772/4		BFS							
ICISAV 410-260772/5		BFS							
IC 410-260772/6		BFS							
IC 410-260772/7		BFS							
IC 410-260772/8		BFS							
IC 410-260772/9		BFS							
IC 410-260772/10		BFS						200 uL	
ICB 410-260772/11		BFS			10 uL	50 uL			
ICV 410-260772/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-260772/1		BFS							
IC 410-260772/2		BFS							
IC 410-260772/3		BFS		200 uL					
IC 410-260772/4		BFS			200 uL				
ICISAV 410-260772/5		BFS				200 uL			
IC 410-260772/6		BFS					200 uL		
IC 410-260772/7		BFS						200 uL	
IC 410-260772/8		BFS							200 uL
IC 410-260772/9		BFS							
IC 410-260772/10		BFS							
ICB 410-260772/11		BFS							
ICV 410-260772/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 260772 Batch Start Date: 06/01/22 11:47 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-260772/1		BFS							
IC 410-260772/2		BFS							
IC 410-260772/3		BFS							
IC 410-260772/4		BFS							
ICISAV 410-260772/5		BFS							
IC 410-260772/6		BFS							
IC 410-260772/7		BFS							
IC 410-260772/8		BFS							
IC 410-260772/9		BFS		200 uL					
IC 410-260772/10		BFS							
ICB 410-260772/11		BFS							
ICV 410-260772/12		BFS							

Batch Notes	
Mobil Phase ID	2732105232233A; 2732105232233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MFS_IDA

Mono-functional Surfactants (MFS) by
LC/MS/MS using Isotope Dilution

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-110S	410-83412-1	67 cn
MW-110D	410-83412-2	73 cn
MW-112S	410-83412-3	99 cn
MW-112D	410-83412-4	67 cn
EB_05092022	410-83412-5	72 cn
AB_05092022	410-83412-6	66 cn
MW-109S-PDB	410-83412-7	63 cn
MW-109S-PDB DL	410-83412-7 DL	78 cn
MW-111S-PDB	410-83412-8	69 cn
MW-111S-PDB DL	410-83412-8 DL	68 cn
MW-111D-PDB	410-83412-9	72 cn
MW-111D-PDB DL	410-83412-9 DL	69 cn
MW-101S	410-83412-10	70 cn
MW-101D	410-83412-11	60 cn
EB_05102022	410-83412-12	68 cn
	MB 410-256033/1-A	85
	LCS 410-256033/2-A	74

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II MFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22MAY31MFS-13.d

Lab ID: LCS 410-256033/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	40.4	45.5	113	70-130	
MFS_M3	40.4	44.8	111	70-130	
MFS_N3	40.1	44.2	110	70-130	
MFS_M4	40.8	43.4	106	70-130	
MFS_N4	40.2	43.2	108	70-130	
MFS_N5	40.0	44.6	111	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83412-1

SDG No.:

Lab File ID: 22MAY24MFS-14.d

Lab Sample ID: MB 410-256033/1-A

Matrix: Water

Date Extracted: 05/17/2022 09:10

Instrument ID: 30733

Date Analyzed: 05/24/2022 10:10

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-110S	410-83412-1	22MAY24MFS-16.d	05/24/2022 10:35
MW-110D	410-83412-2	22MAY24MFS-17.d	05/24/2022 10:48
MW-112S	410-83412-3	22MAY24MFS-18.d	05/24/2022 11:01
MW-112D	410-83412-4	22MAY24MFS-19.d	05/24/2022 11:13
EB_05092022	410-83412-5	22MAY24MFS-20.d	05/24/2022 11:26
AB_05092022	410-83412-6	22MAY24MFS-21.d	05/24/2022 11:38
MW-109S-PDB	410-83412-7	22MAY24MFS-22.d	05/24/2022 11:51
MW-111S-PDB	410-83412-8	22MAY24MFS-23.d	05/24/2022 12:04
MW-111D-PDB	410-83412-9	22MAY24MFS-24.d	05/24/2022 12:16
MW-101S	410-83412-10	22MAY24MFS-25.d	05/24/2022 12:29
MW-101D	410-83412-11	22MAY24MFS-27.d	05/24/2022 12:55
EB_05102022	410-83412-12	22MAY24MFS-28.d	05/24/2022 13:08
	LCS 410-256033/2-A	22MAY31MFS-13.d	05/31/2022 17:46
MW-109S-PDB DL	410-83412-7 DL	22MAY31MFS-14.d	05/31/2022 17:58
MW-111S-PDB DL	410-83412-8 DL	22MAY31MFS-15.d	05/31/2022 18:11
MW-111D-PDB DL	410-83412-9 DL	22MAY31MFS-16.d	05/31/2022 18:24

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Calibration Start Date: 05/24/2022 07:24

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 05/24/2022 08:41

Calibration ID: 38942

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3420548	5.08				
UPPER LIMIT		5130822	5.48				
LOWER LIMIT		1710274	4.68				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-258360/8		2919153	5.07				
ICV 410-258360/9		2981765	5.08				
CCV 410-258462/1		3621049	5.07				
MB 410-256033/1-A		3090779	5.08				
410-83412-1	MW-110S	2826353	5.07				
410-83412-2	MW-110D	2655838	5.07				
410-83412-3	MW-112S	2378276	5.08				
410-83412-4	MW-112D	2732079	5.08				
410-83412-5	EB_05092022	3030640	5.07				
410-83412-6	AB_05092022	3083262	5.08				
410-83412-7	MW-109S-PDB	2689519	5.08				
410-83412-8	MW-111S-PDB	2765294	5.08				
410-83412-9	MW-111D-PDB	2393254	5.08				
410-83412-10	MW-101S	2458090	5.08				
CCV 410-258462/14		2710247	5.08				
410-83412-11	MW-101D	2252993	5.07				
410-83412-12	EB_05102022	2868846	5.08				
CCV 410-258462/25		2221477	5.07				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-83412-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 05/31/2022 16:30
 Calibration ID: 39146

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		6381653	5.08				
UPPER LIMIT		9572480	5.48				
LOWER LIMIT		3190827	4.68				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-260443/8		4856868	5.07				
ICV 410-260443/9		4852670	5.08				
CCV 410-260445/1		8181829	5.08				
LCS 410-256033/2-A		5143384	5.09				
410-83412-7 DL	MW-109S-PDB DL	4861374	5.07				
410-83412-8 DL	MW-111S-PDB DL	5213436	5.08				
410-83412-9 DL	MW-111D-PDB DL	4956121	5.08				
CCV 410-260445/11		6127094	5.08				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-110S Lab Sample ID: 410-83412-1

Matrix: Water Lab File ID: 22MAY24MFS-16.d

Analysis Method: MFS Date Collected: 05/09/2022 11:13

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 322.7(mL) Date Analyzed: 05/24/2022 10:35

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	89	cn	0.77	0.15
STL02874	MFS_M3	ND	cn	0.77	0.15
STL02875	MFS_N3	ND	cn	0.77	0.15
STL02876	MFS_M4	ND	cn	0.77	0.39
STL02877	MFS_N4	ND	cn	1.5	0.77
STL02888	MFS_N5	ND	cn	2.3	1.5

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-16.d
 Lims ID: 410-83412-B-1-A
 Client ID: MW-110S
 Sample Type: Client
 Inject. Date: 24-May-2022 10:35:56 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 12:54:53
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.466	4.468	-0.002	0.881	426600	3.34	66.7	3767
* 2 13C2 PFOA	415.00 > 370.00	5.067	5.069	-0.002		2826353	5.00		5202
3 MFS_N2	461.00 > 367.00	5.296	5.301	-0.005	1.186	6120908	28.8		5957

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-16.d

Injection Date: 24-May-2022 10:35:56

Instrument ID: 30733

Lims ID: 410-83412-B-1-A

Lab Sample ID: 410-83412-1

Client ID: MW-110S

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

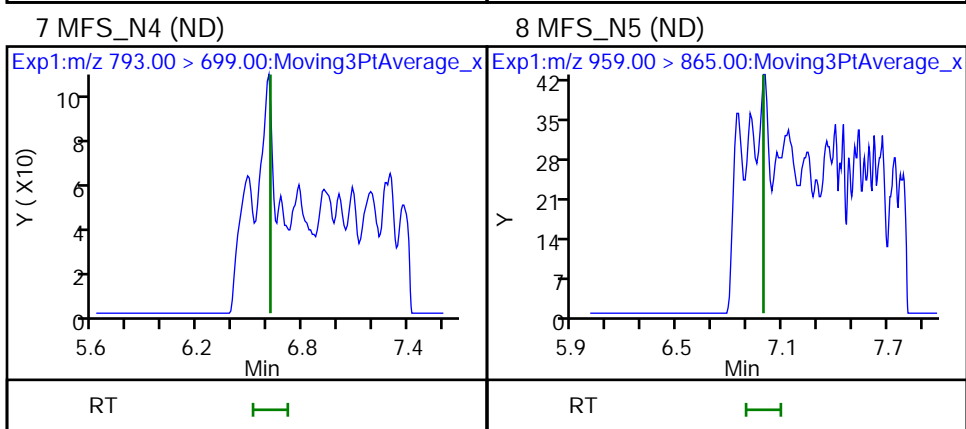
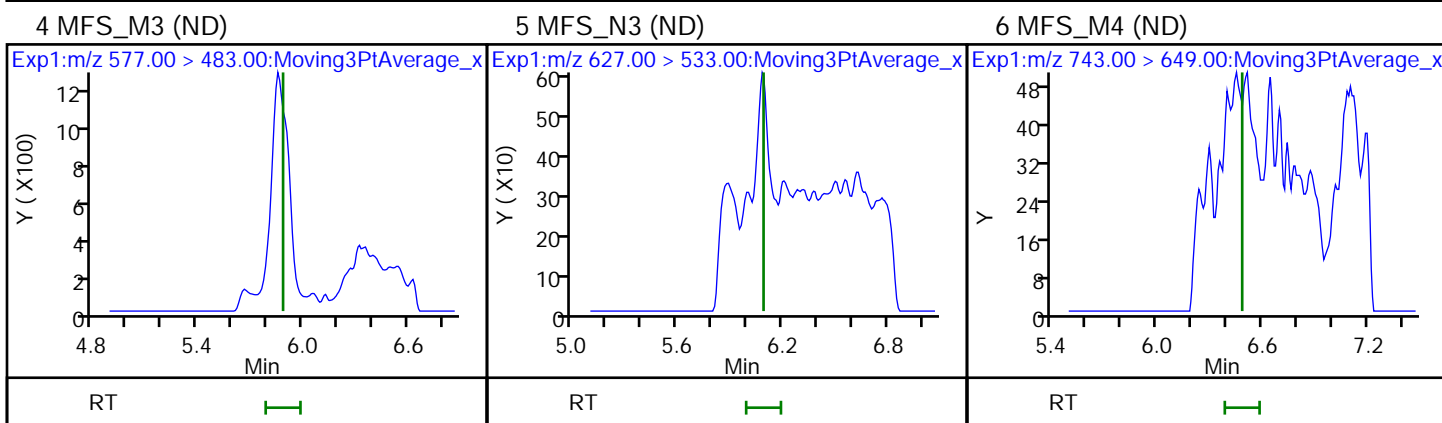
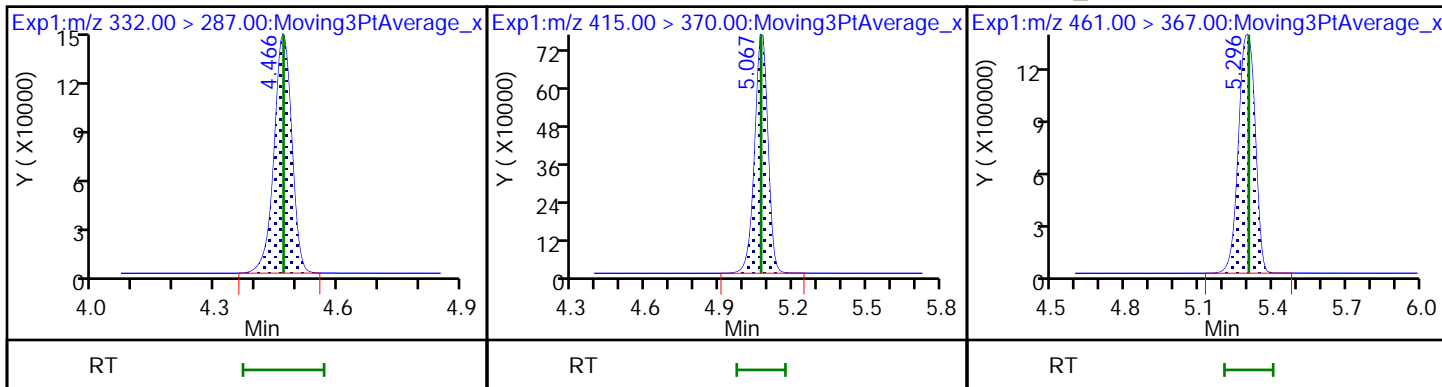
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-110D Lab Sample ID: 410-83412-2

Matrix: Water Lab File ID: 22MAY24MFS-17.d

Analysis Method: MFS Date Collected: 05/09/2022 12:10

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 293.7(mL) Date Analyzed: 05/24/2022 10:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	15	cn	0.85	0.17
STL02874	MFS_M3	ND	cn	0.85	0.17
STL02875	MFS_N3	ND	cn	0.85	0.17
STL02876	MFS_M4	ND	cn	0.85	0.43
STL02877	MFS_N4	ND	cn	1.7	0.85
STL02888	MFS_N5	ND	cn	2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-17.d
 Lims ID: 410-83412-B-2-A
 Client ID: MW-110D
 Sample Type: Client
 Inject. Date: 24-May-2022 10:48:34 ALS Bottle#: 13 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 12:54:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.469	4.468	0.001	0.881	439363	3.66	73.1	3370
* 2 13C2 PFOA	415.00 > 370.00	5.070	5.069	0.001		2655838	5.00		4394
3 MFS_N2	461.00 > 367.00	5.288	5.301	-0.013	1.183	993732	4.55		1040

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-17.d

Injection Date: 24-May-2022 10:48:34

Instrument ID: 30733

Lims ID: 410-83412-B-2-A

Lab Sample ID: 410-83412-2

Client ID: MW-110D

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

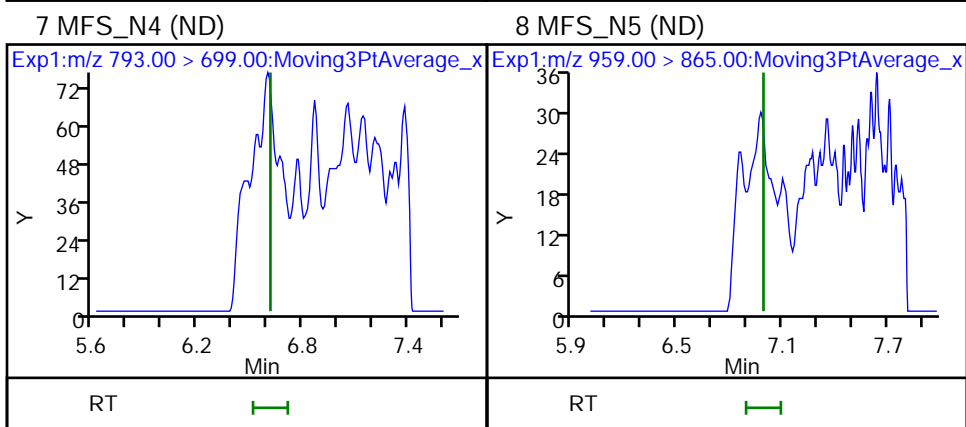
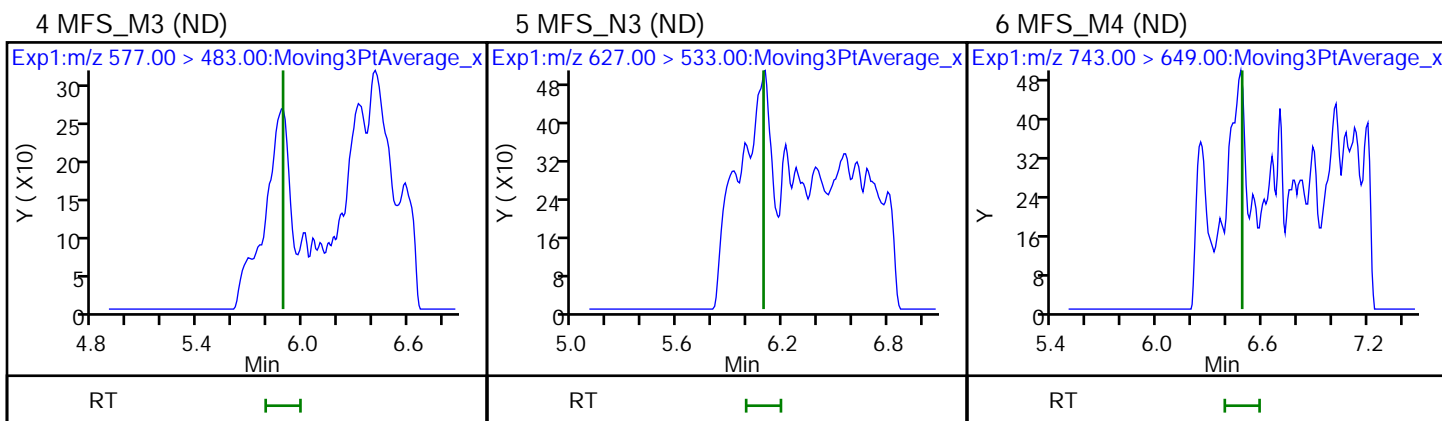
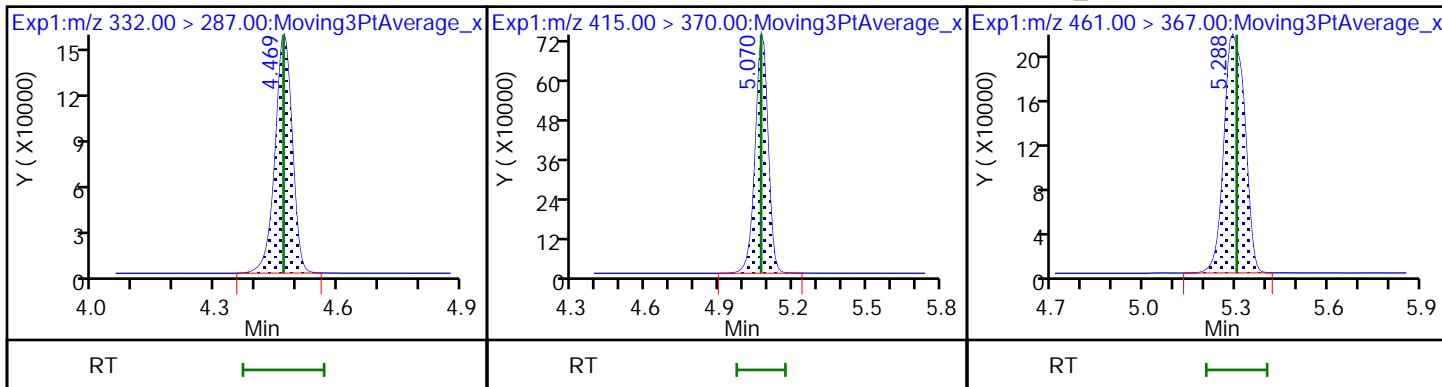
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S Lab Sample ID: 410-83412-3

Matrix: Water Lab File ID: 22MAY24MFS-18.d

Analysis Method: MFS Date Collected: 05/09/2022 14:38

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 287.5(mL) Date Analyzed: 05/24/2022 11:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND	cn	0.87	0.17
STL02874	MFS_M3	ND	cn	0.87	0.17
STL02875	MFS_N3	ND	cn	0.87	0.17
STL02876	MFS_M4	ND	cn	0.87	0.43
STL02877	MFS_N4	ND	cn	1.7	0.87
STL02888	MFS_N5	ND	cn	2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-18.d
 Lims ID: 410-83412-B-3-A
 Client ID: MW-112S
 Sample Type: Client
 Inject. Date: 24-May-2022 11:01:11 ALS Bottle#: 14 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-3-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 24-May-2022 12:55:06
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.474	4.468	0.006	0.881	532766	4.95	99.0	4315
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		2378276	5.00		4377

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-18.d

Injection Date: 24-May-2022 11:01:11

Instrument ID: 30733

Lims ID: 410-83412-B-3-A

Lab Sample ID: 410-83412-3

Client ID: MW-112S

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

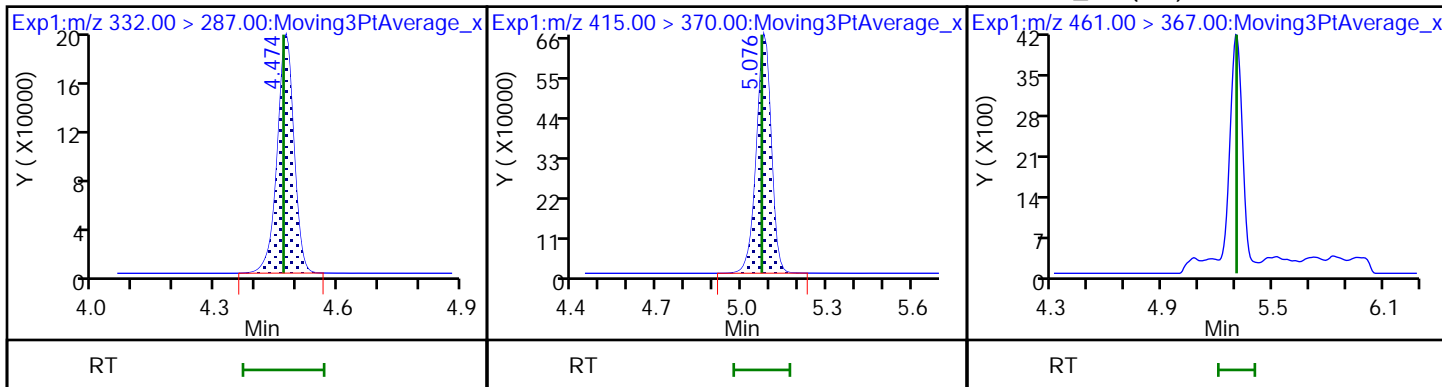
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

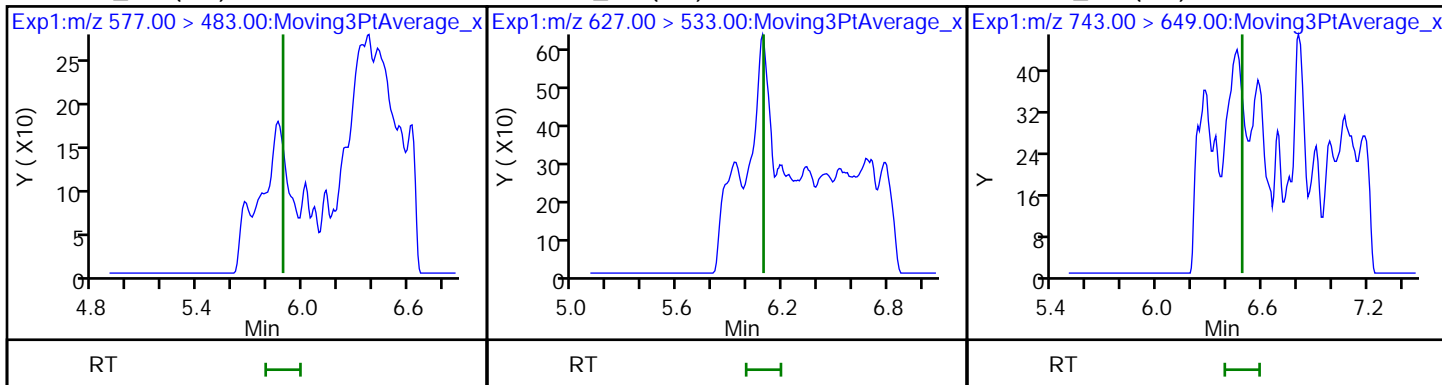
3 MFS_N2 (ND)



4 MFS_M3 (ND)

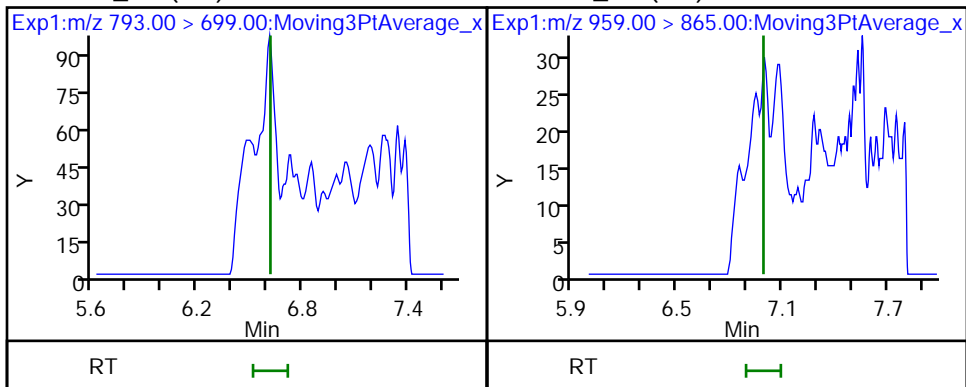
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112D Lab Sample ID: 410-83412-4

Matrix: Water Lab File ID: 22MAY24MFS-19.d

Analysis Method: MFS Date Collected: 05/09/2022 14:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 301(mL) Date Analyzed: 05/24/2022 11:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND	cn	0.83	0.17
STL02874	MFS_M3	ND	cn	0.83	0.17
STL02875	MFS_N3	ND	cn	0.83	0.17
STL02876	MFS_M4	ND	cn	0.83	0.42
STL02877	MFS_N4	ND	cn	1.7	0.83
STL02888	MFS_N5	ND	cn	2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-19.d
 Lims ID: 410-83412-B-4-A
 Client ID: MW-112D
 Sample Type: Client
 Inject. Date: 24-May-2022 11:13:45 ALS Bottle#: 15 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-4-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 24-May-2022 12:55:15
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.470	4.468	0.002	0.881	413753	3.35	66.9	3895
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		2732079	5.00		5292

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-19.d

Injection Date: 24-May-2022 11:13:45

Instrument ID: 30733

Lims ID: 410-83412-B-4-A

Lab Sample ID: 410-83412-4

Client ID: MW-112D

Operator ID: US19_USR_INS20260

ALS Bottle#: 15 Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

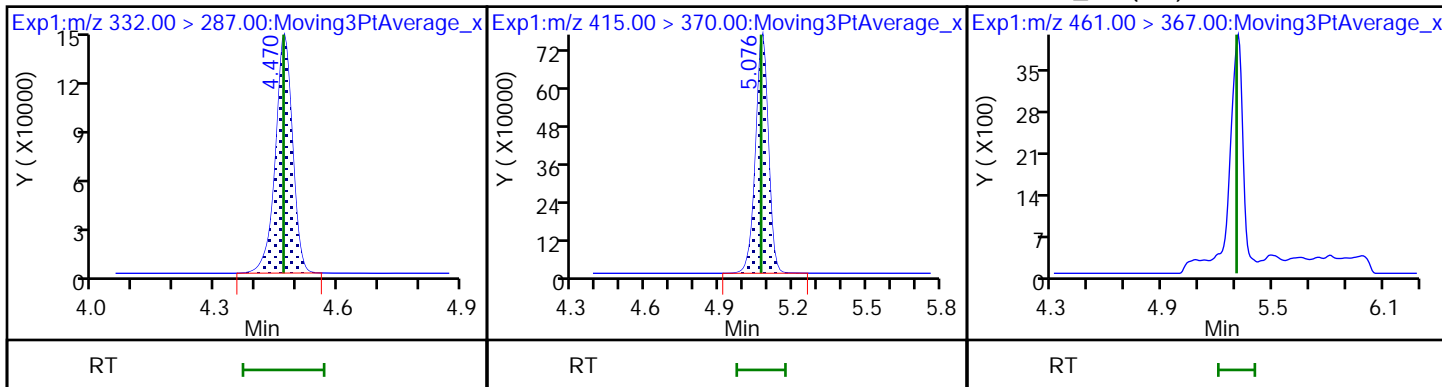
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

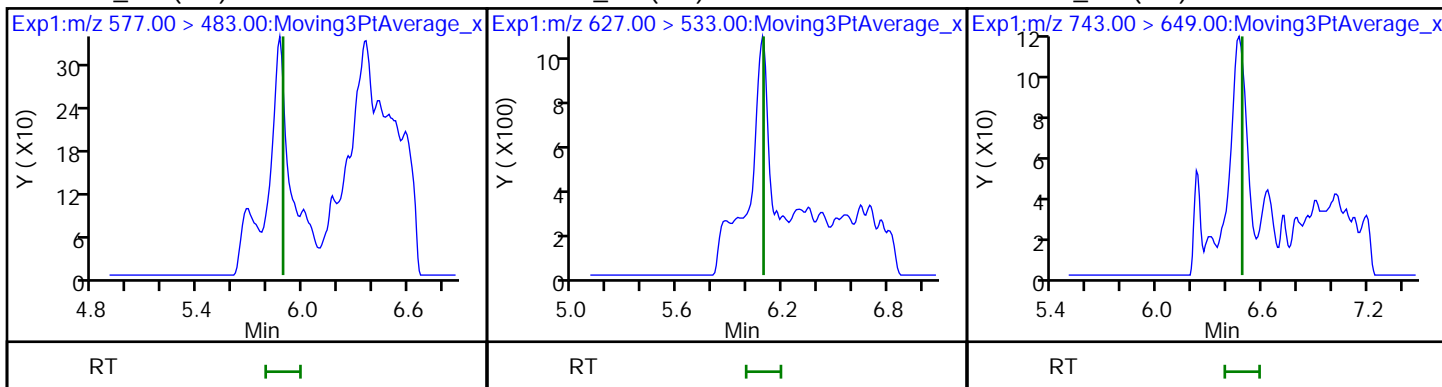
3 MFS_N2 (ND)



4 MFS_M3 (ND)

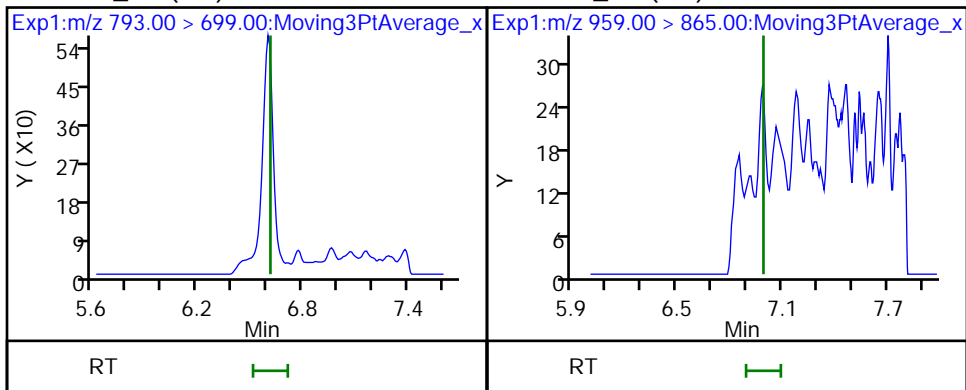
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_05092022 Lab Sample ID: 410-83412-5

Matrix: Water Lab File ID: 22MAY24MFS-20.d

Analysis Method: MFS Date Collected: 05/09/2022 11:50

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 258(mL) Date Analyzed: 05/24/2022 11:26

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND	cn	0.97	0.19
STL02874	MFS_M3	ND	cn	0.97	0.19
STL02875	MFS_N3	ND	cn	0.97	0.19
STL02876	MFS_M4	ND	cn	0.97	0.48
STL02877	MFS_N4	ND	cn	1.9	0.97
STL02888	MFS_N5	ND	cn	2.9	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-20.d
 Lims ID: 410-83412-B-5-A
 Client ID: EB_05092022
 Sample Type: Client
 Inject. Date: 24-May-2022 11:26:20 ALS Bottle#: 16 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-5-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 24-May-2022 13:59:07
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.464 4.468 -0.004 0.880 495437 3.61 72.3 3417
 * 2 13C2 PFOA
 415.00 > 370.00 5.070 5.069 0.001 3030640 5.00 4456

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-20.d

Injection Date: 24-May-2022 11:26:20

Instrument ID: 30733

Lims ID: 410-83412-B-5-A

Lab Sample ID: 410-83412-5

Client ID: EB_05092022

Operator ID: US19_USR_INS20260

ALS Bottle#: 16

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

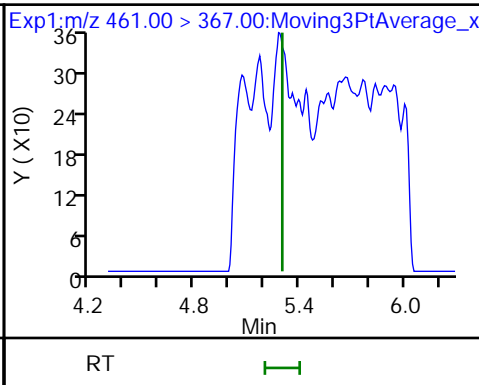
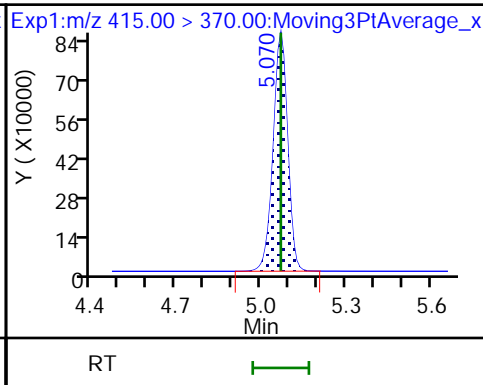
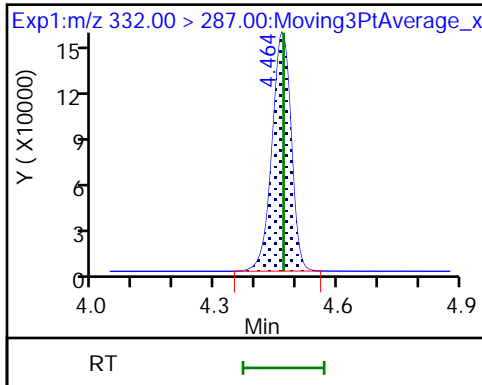
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

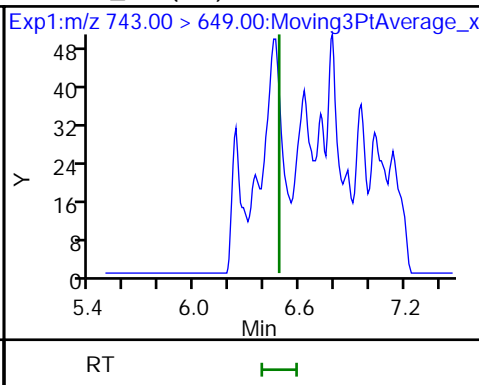
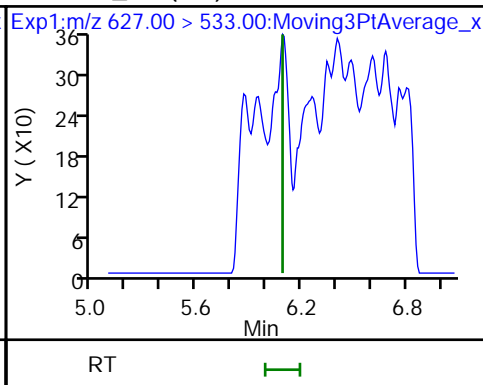
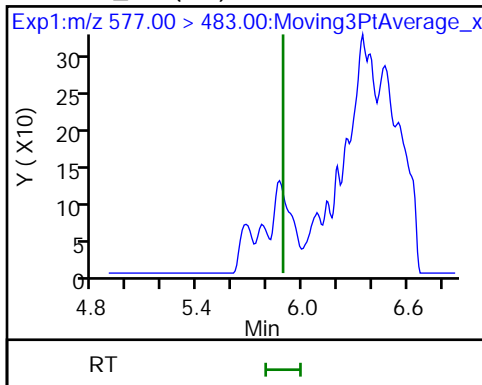
3 MFS_N2 (ND)



4 MFS_M3 (ND)

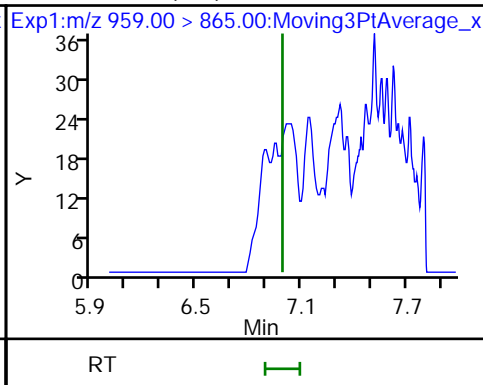
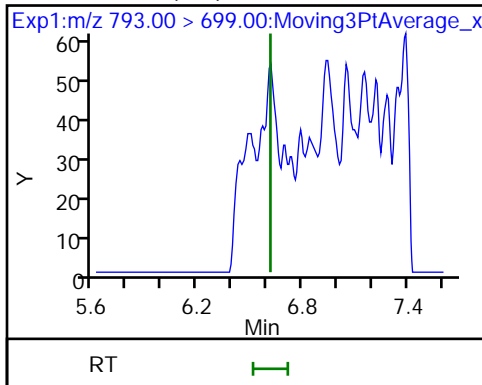
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: AB_05092022 Lab Sample ID: 410-83412-6

Matrix: Water Lab File ID: 22MAY24MFS-21.d

Analysis Method: MFS Date Collected: 05/09/2022 11:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 265(mL) Date Analyzed: 05/24/2022 11:38

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND	cn	0.94	0.19
STL02874	MFS_M3	ND	cn	0.94	0.19
STL02875	MFS_N3	ND	cn	0.94	0.19
STL02876	MFS_M4	ND	cn	0.94	0.47
STL02877	MFS_N4	ND	cn	1.9	0.94
STL02888	MFS_N5	ND	cn	2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	66	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-21.d
 Lims ID: 410-83412-B-6-A
 Client ID: AB_05092022
 Sample Type: Client
 Inject. Date: 24-May-2022 11:38:54 ALS Bottle#: 17 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-6-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 24-May-2022 13:59:12
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.470 4.468 0.002 0.881 461253 3.31 66.1 3841
 * 2 13C2 PFOA
 415.00 > 370.00 5.076 5.069 0.007 3083262 5.00 5076

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-21.d

Injection Date: 24-May-2022 11:38:54

Instrument ID: 30733

Lims ID: 410-83412-B-6-A

Lab Sample ID: 410-83412-6

Client ID: AB_05092022

Operator ID: US19_USR_INS20260

ALS Bottle#: 17

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

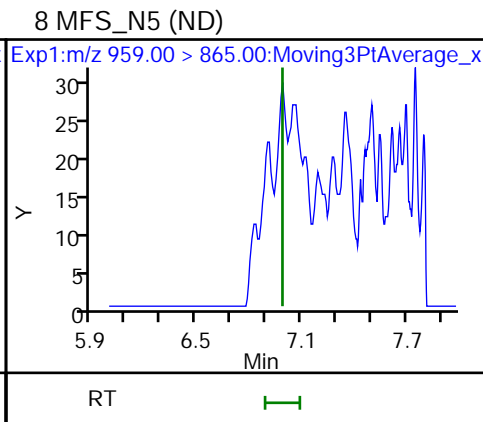
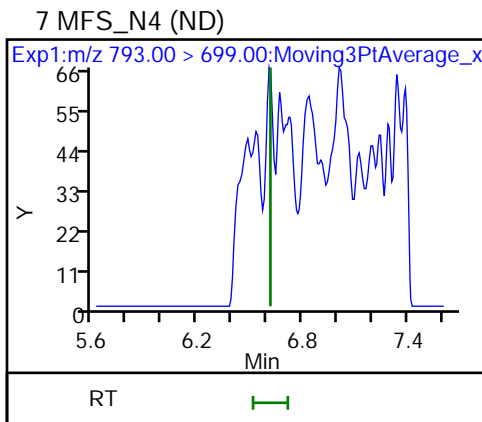
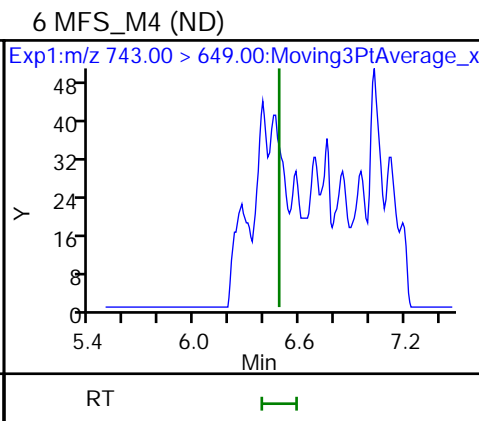
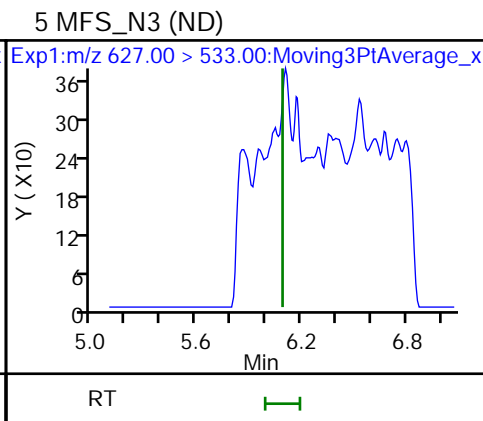
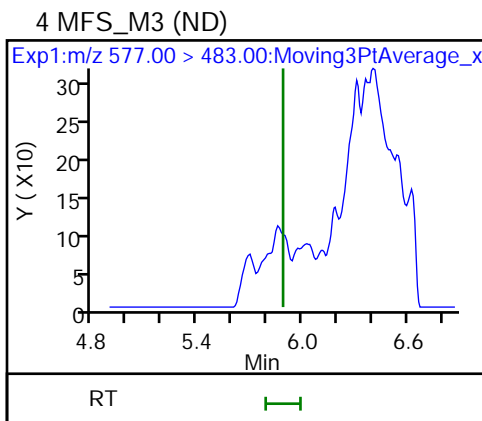
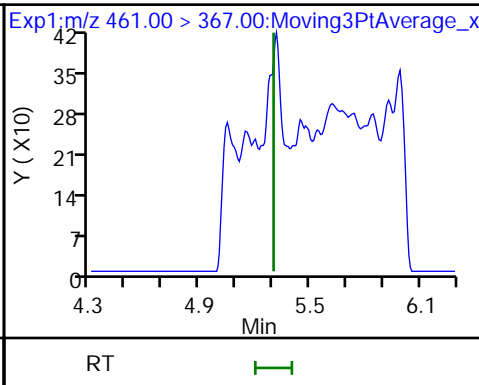
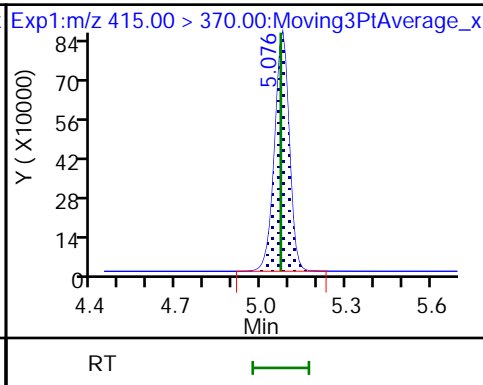
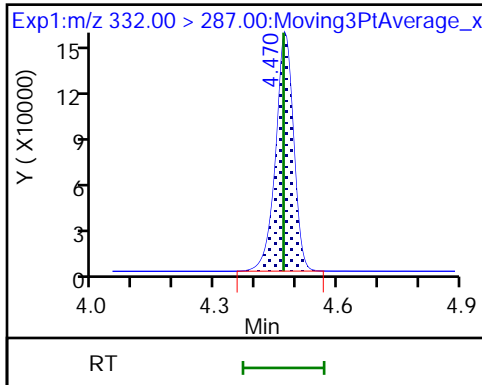
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S-PDB Lab Sample ID: 410-83412-7

Matrix: Water Lab File ID: 22MAY24MFS-22.d

Analysis Method: MFS Date Collected: 05/09/2022 10:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 287.9(mL) Date Analyzed: 05/24/2022 11:51

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	10	cn	0.87	0.17
STL02875	MFS_N3	20	cn	0.87	0.17
STL02876	MFS_M4	ND	cn	0.87	0.43
STL02877	MFS_N4	ND	cn	1.7	0.87
STL02888	MFS_N5	ND	cn	2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	63	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-22.d
 Lims ID: 410-83412-B-7-A
 Client ID: MW-109S-PDB
 Sample Type: Client
 Inject. Date: 24-May-2022 11:51:32 ALS Bottle#: 18 Worklist Smp#: 10
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-7-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 13:59:38
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.477	4.468	0.009	0.882	383757	3.15	63.1	3812
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.069	0.009		2689519	5.00		4279
3 MFS_N2	461.00 > 367.00	5.315	5.301	0.014	1.187	33195045	173.8		23696 E
4 MFS_M3	577.00 > 483.00	5.878	5.888	-0.010	1.313	415407	2.88		332
5 MFS_N3	627.00 > 533.00	6.091	6.091	0.0	1.361	1079596	5.78		851

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-22.d

Injection Date: 24-May-2022 11:51:32

Instrument ID: 30733

Lims ID: 410-83412-B-7-A

Lab Sample ID: 410-83412-7

Client ID: MW-109S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 18 Worklist Smp#: 10

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

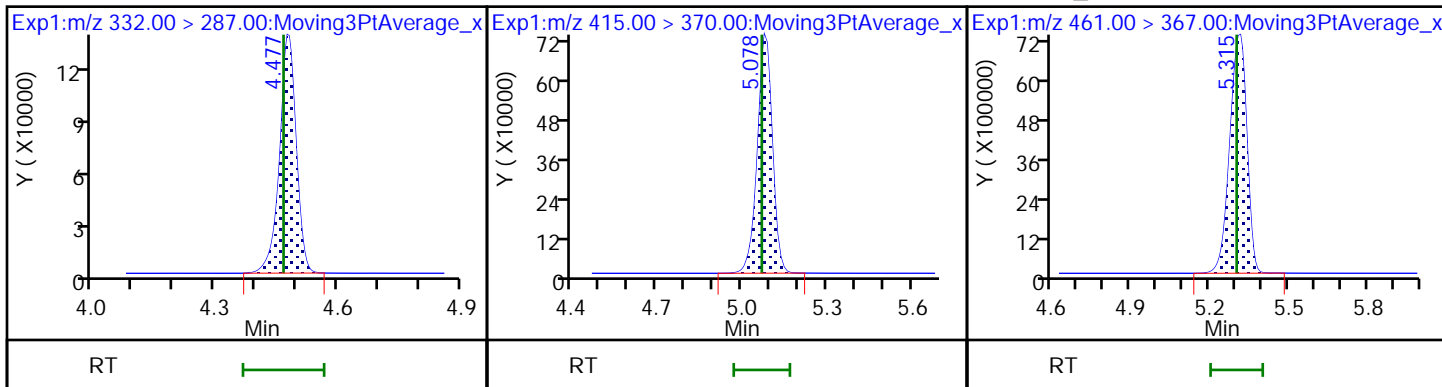
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

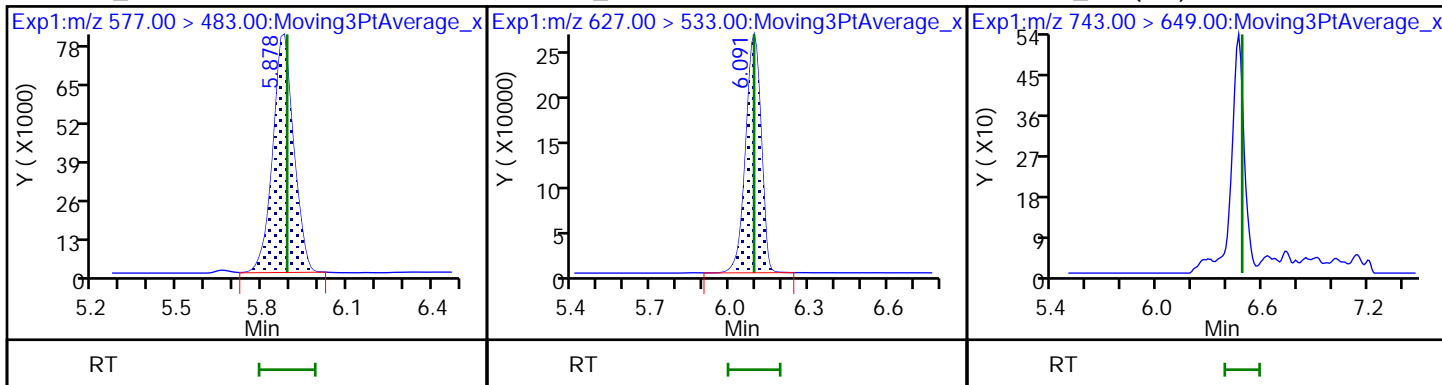
3 MFS_N2



4 MFS_M3

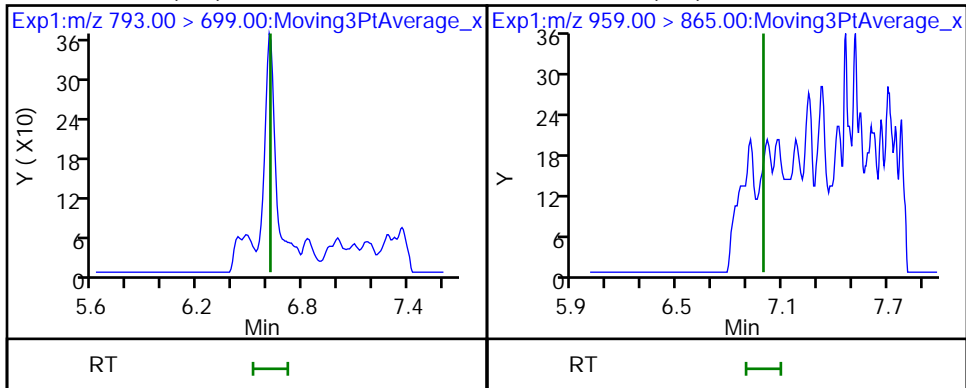
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S-PDB DL Lab Sample ID: 410-83412-7 DL

Matrix: Water Lab File ID: 22MAY31MFS-14.d

Analysis Method: MFS Date Collected: 05/09/2022 10:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 287.9(mL) Date Analyzed: 05/31/2022 17:58

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	620	cn	8.7	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-14.d
 Lims ID: 410-83412-B-7-A
 Client ID: MW-109S-PDB
 Sample Type: Client
 Inject. Date: 31-May-2022 17:58:56 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83412-B-7-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:37:43
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.468	4.473	-0.005	0.881	74927	0.3896	77.9	602	M
* 2 13C2 PFOA									
415.00 > 370.00	5.069	5.069	0.0		4861374	5.00		2922	
3 MFS_N2									
461.00 > 367.00	5.301	5.301	0.0	1.186	7155249	17.9		10121	
4 MFS_M3									
577.00 > 483.00	5.867	5.886	-0.019	1.313	88160	0.2791		76.6	
5 MFS_N3									
627.00 > 533.00	6.083	6.088	-0.005	1.361	235749	0.5665		342	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-14.d

Injection Date: 31-May-2022 17:58:56

Instrument ID: 30733

Lims ID: 410-83412-B-7-A

Lab Sample ID: 410-83412-7

Client ID: MW-109S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 11 Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

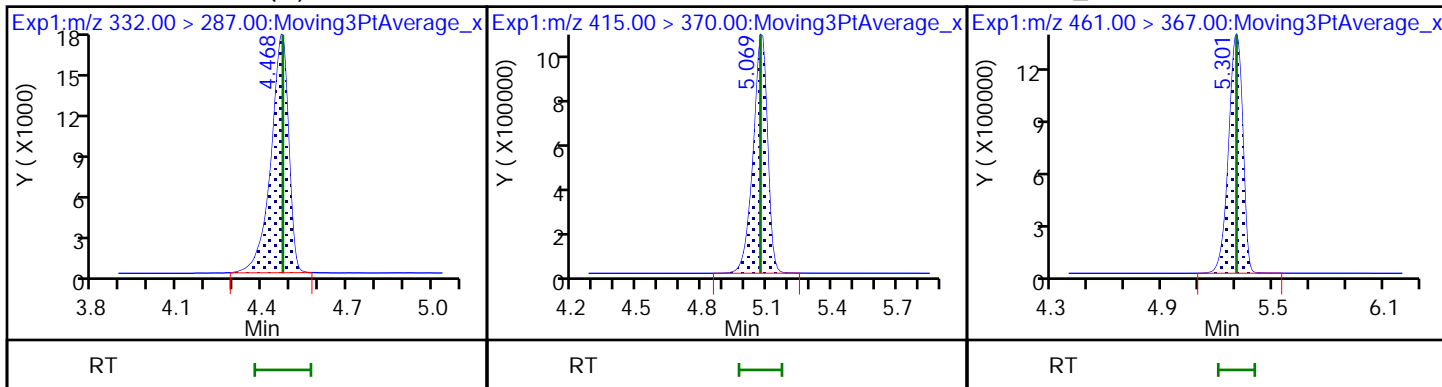
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

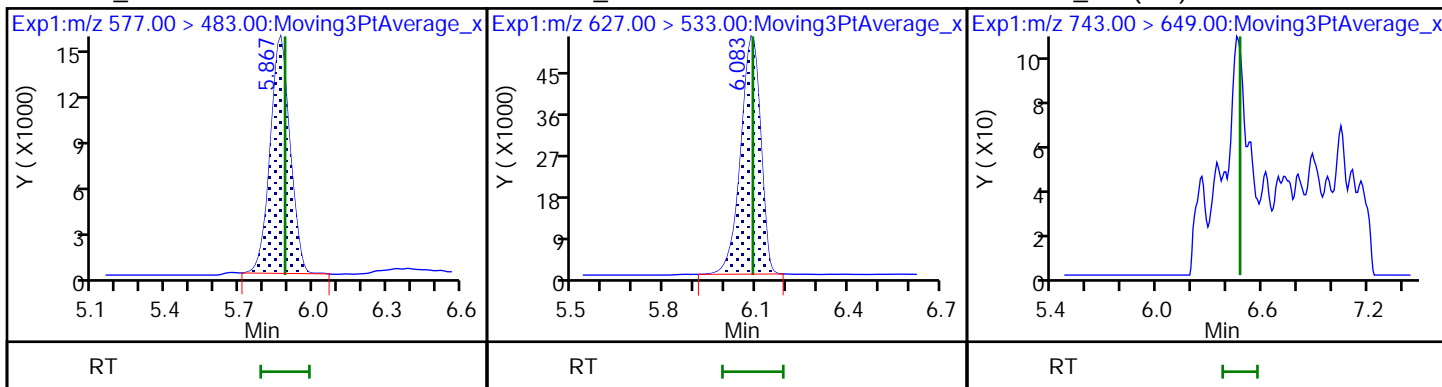
3 MFS_N2



4 MFS_M3

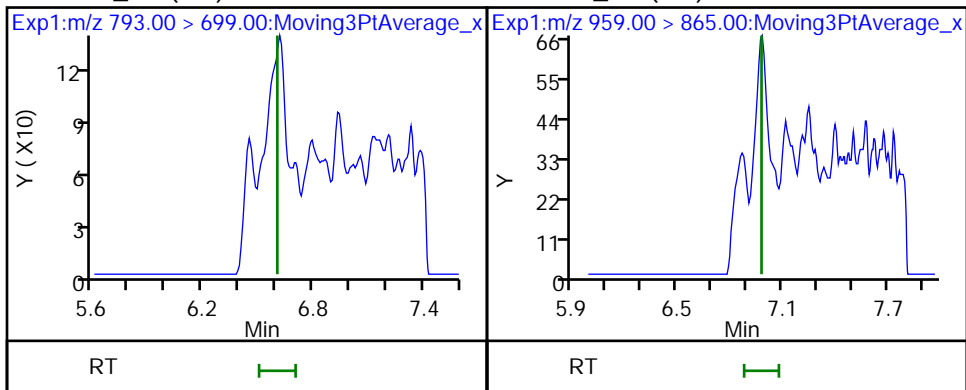
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

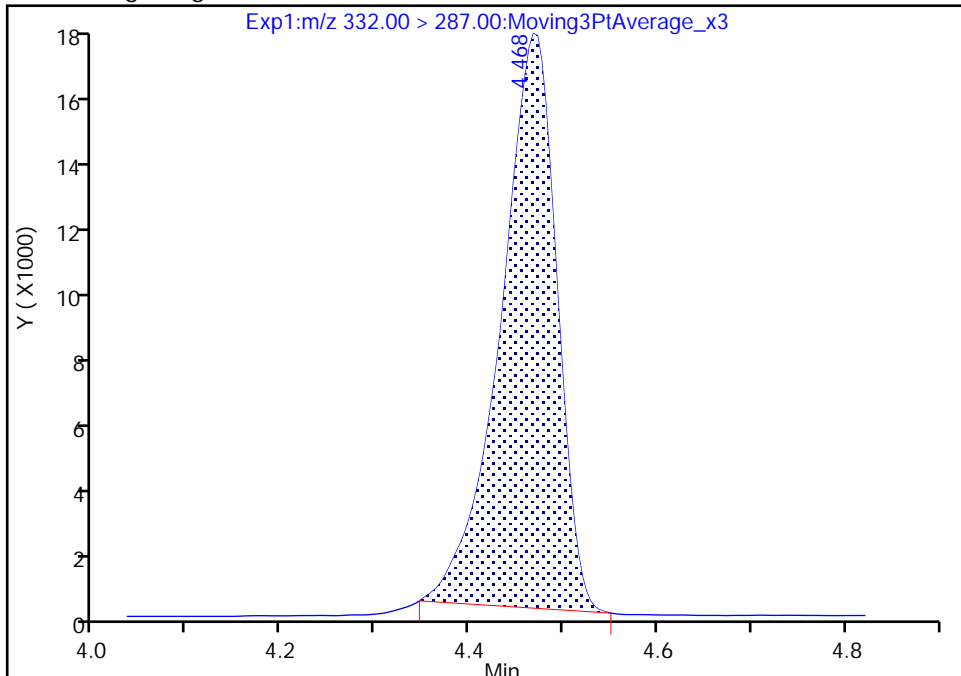
Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-14.d
Injection Date: 31-May-2022 17:58:56 Instrument ID: 30733
Lims ID: 410-83412-B-7-A Lab Sample ID: 410-83412-7
Client ID: MW-109S-PDB
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 15.0 ul Dil. Factor: 10.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

D 1 13C3 HFPO-DA, CAS: STL02255

Signal: 1

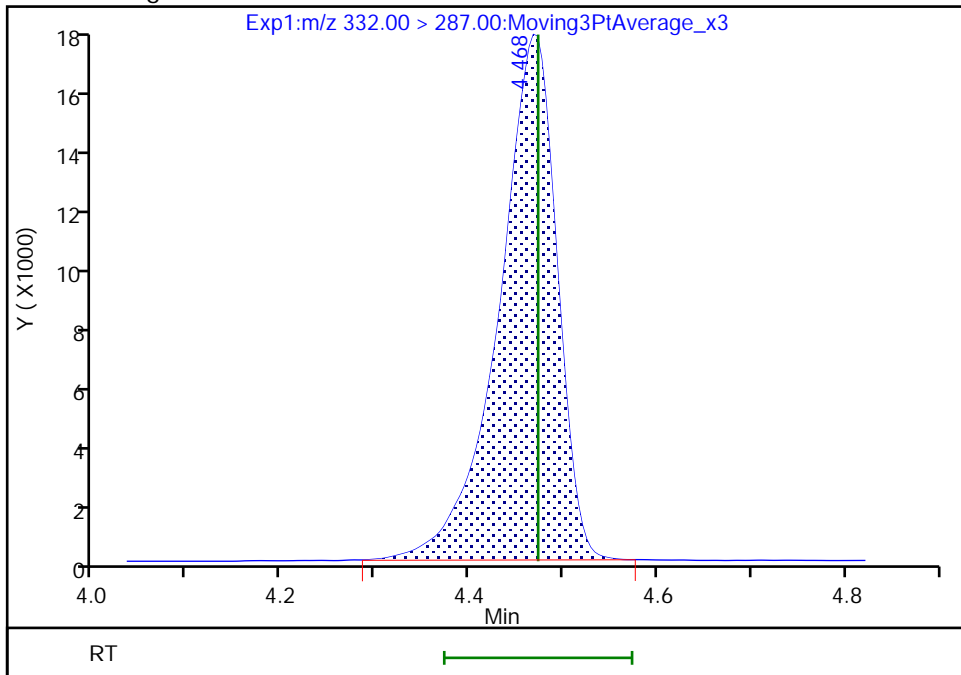
RT: 4.47
Area: 71415
Amount: 0.371370
Amount Units: ng/ml

Processing Integration Results



RT: 4.47
Area: 74927
Amount: 0.389633
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S-PDB Lab Sample ID: 410-83412-8

Matrix: Water Lab File ID: 22MAY24MFS-23.d

Analysis Method: MFS Date Collected: 05/09/2022 10:20

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 285.4(mL) Date Analyzed: 05/24/2022 12:04

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	30	cn	0.88	0.18
STL02875	MFS_N3	9.4	cn	0.88	0.18
STL02876	MFS_M4	ND	cn	0.88	0.44
STL02877	MFS_N4	ND	cn	1.8	0.88
STL02888	MFS_N5	ND	cn	2.6	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-23.d
 Lims ID: 410-83412-B-8-A
 Client ID: MW-111S-PDB
 Sample Type: Client
 Inject. Date: 24-May-2022 12:04:09 ALS Bottle#: 19 Worklist Smp#: 11
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-8-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 13:59:48
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.478	4.468	0.010	0.882	429638	3.43	68.7	3700
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		2765294	5.00		5204
3 MFS_N2	461.00 > 367.00	5.310	5.301	0.009	1.186	67640466	316.4		31007 E
4 MFS_M3	577.00 > 483.00	5.870	5.888	-0.018	1.311	1374330	8.51		819
5 MFS_N3	627.00 > 533.00	6.085	6.091	-0.006	1.359	558560	2.67		444

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-23.d

Injection Date: 24-May-2022 12:04:09

Instrument ID: 30733

Lims ID: 410-83412-B-8-A

Lab Sample ID: 410-83412-8

Client ID: MW-111S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 19

Worklist Smp#: 11

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

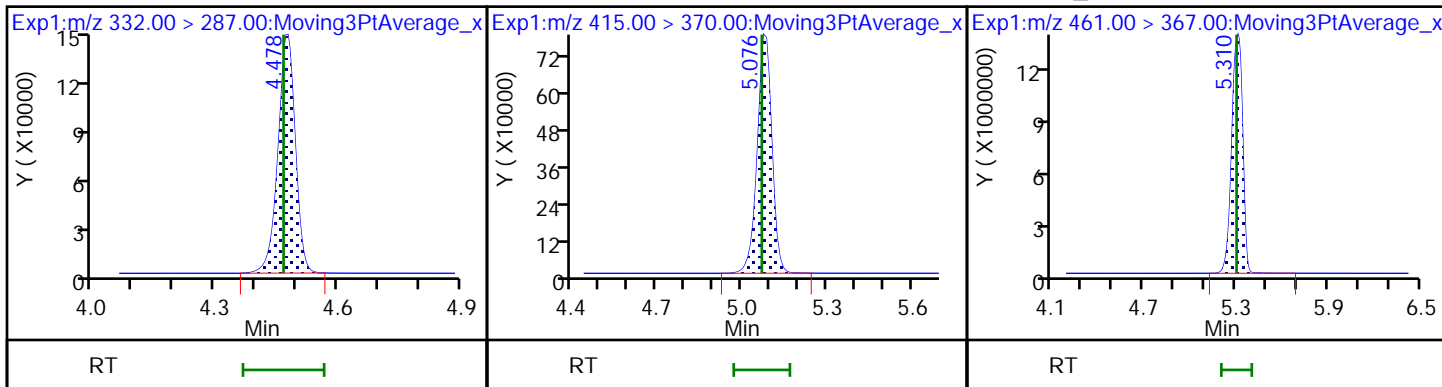
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

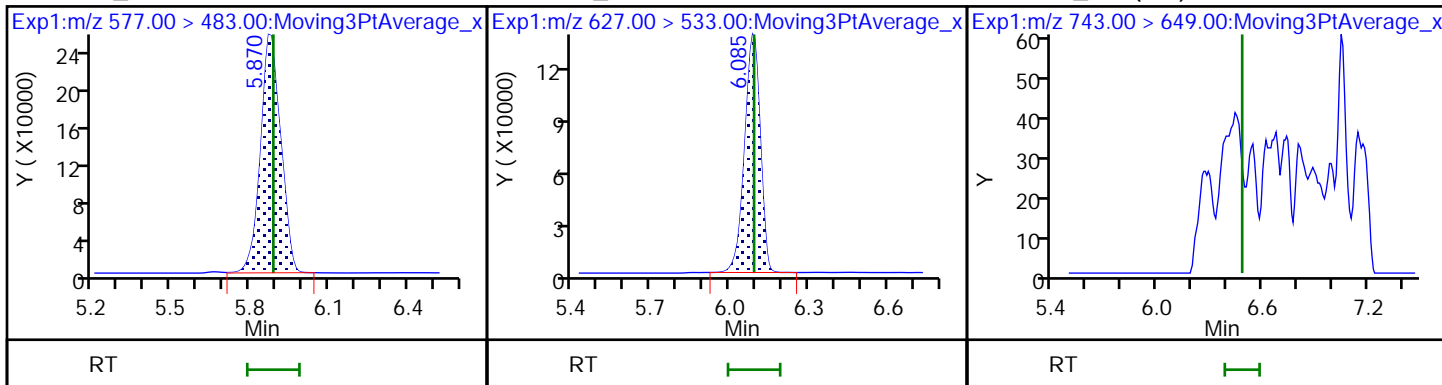
3 MFS_N2



4 MFS_M3

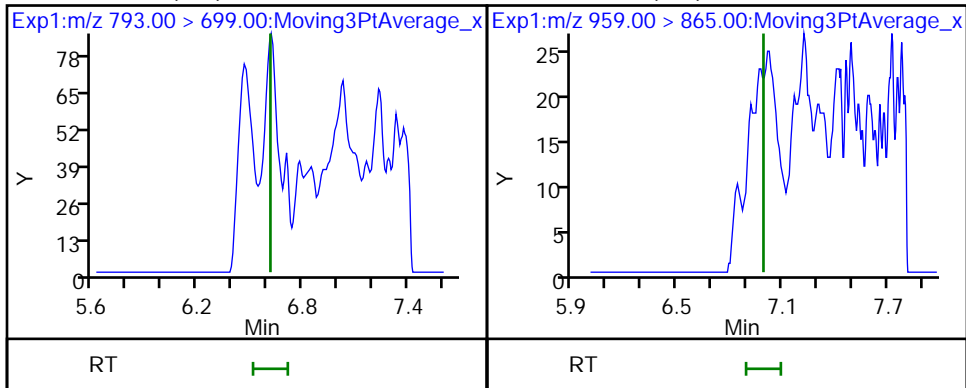
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S-PDB DL Lab Sample ID: 410-83412-8 DL

Matrix: Water Lab File ID: 22MAY31MFS-15.d

Analysis Method: MFS Date Collected: 05/09/2022 10:20

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 285.4(mL) Date Analyzed: 05/31/2022 18:11

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1400	cn	8.8	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	68	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-15.d
 Lims ID: 410-83412-B-8-A
 Client ID: MW-111S-PDB
 Sample Type: Client
 Inject. Date: 31-May-2022 18:11:33 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83412-B-8-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:37:57
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.477	4.473	0.004	0.882	70019	0.3395	67.9	580	M
* 2 13C2 PFOA									
415.00 > 370.00	5.078	5.069	0.009		5213436	5.00		2732	
3 MFS_N2									
461.00 > 367.00	5.301	5.301	0.0	1.184	15062826	40.3		14581	
4 MFS_M3									
577.00 > 483.00	5.875	5.886	-0.011	1.312	254706	0.8629		213	
5 MFS_N3									
627.00 > 533.00	6.089	6.088	0.001	1.360	103198	0.2654		144	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-15.d

Injection Date: 31-May-2022 18:11:33

Instrument ID: 30733

Lims ID: 410-83412-B-8-A

Lab Sample ID: 410-83412-8

Client ID: MW-111S-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

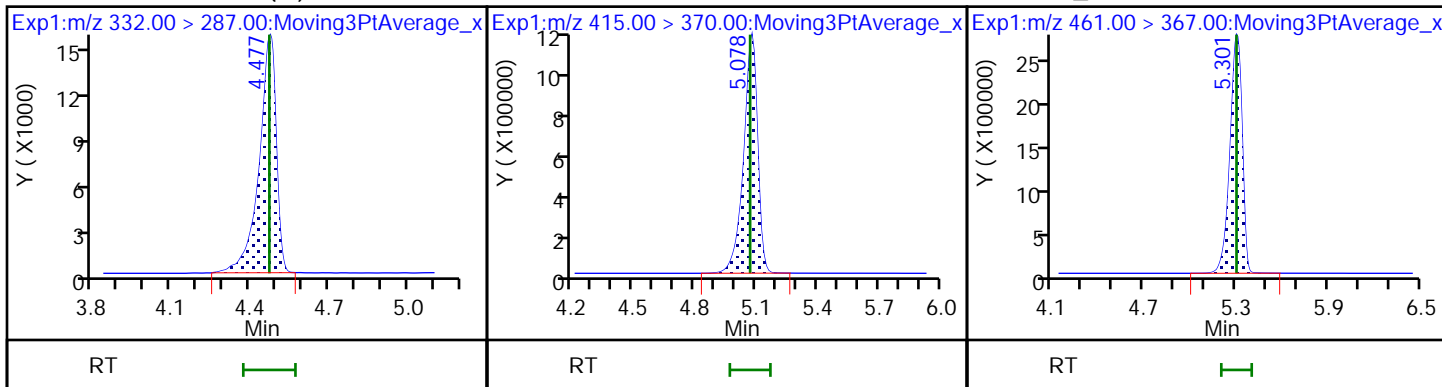
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

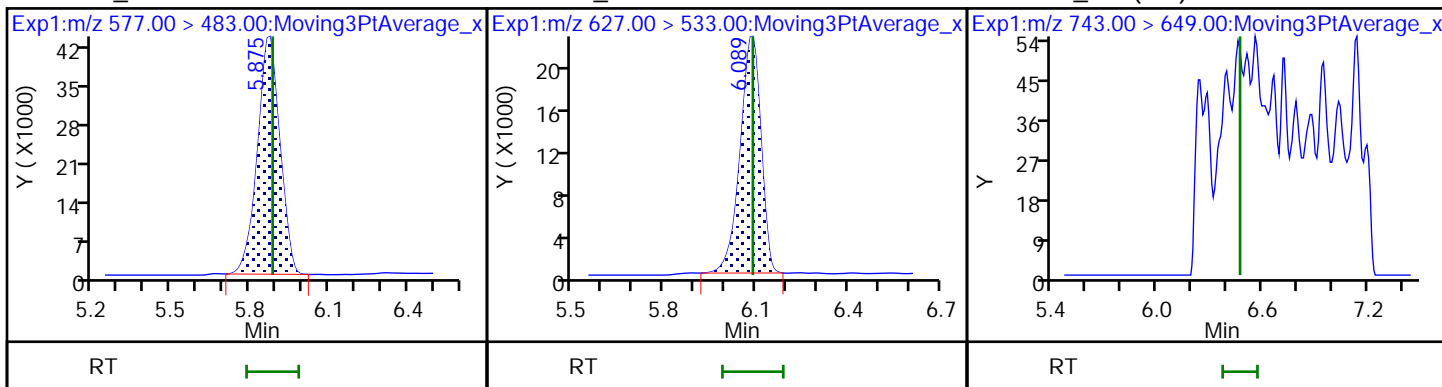
3 MFS_N2



4 MFS_M3

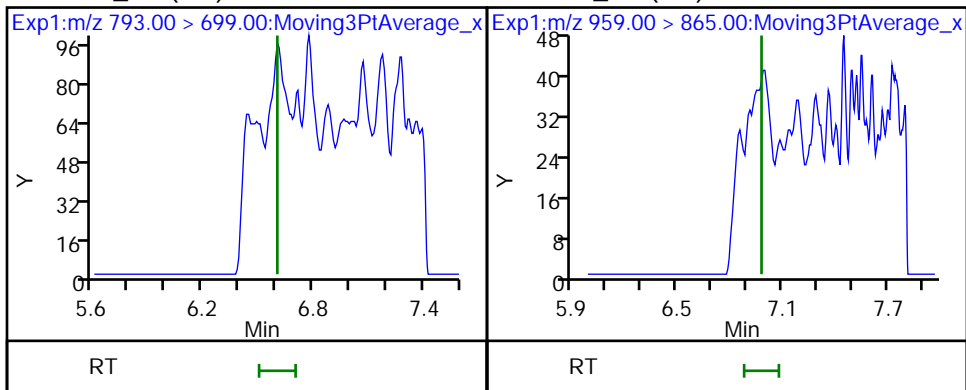
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



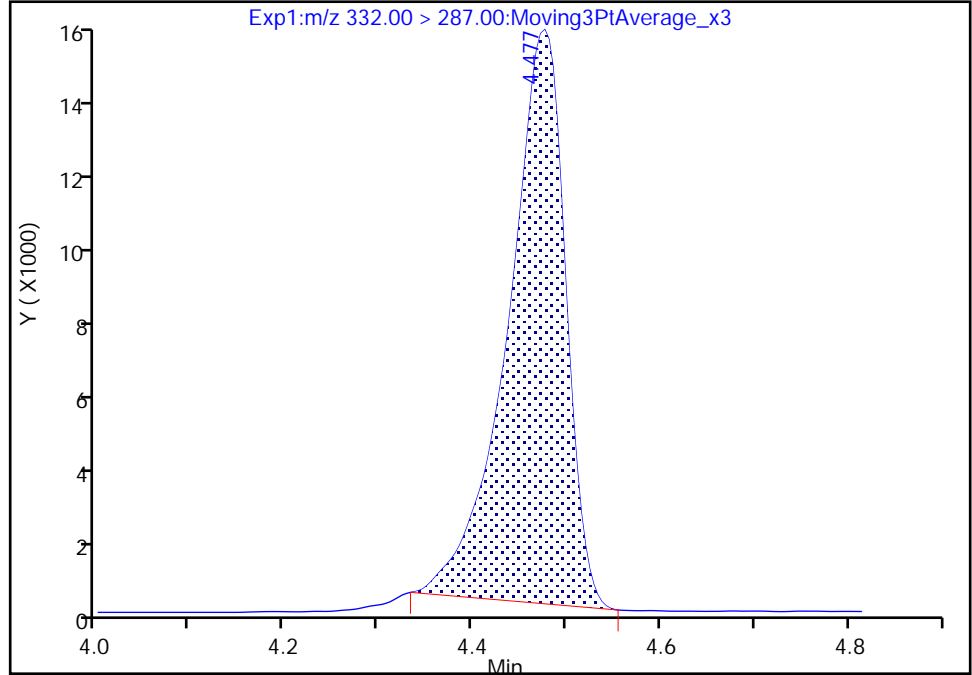
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-15.d				
Injection Date:	31-May-2022 18:11:33	Instrument ID:	30733		
Lims ID:	410-83412-B-8-A	Lab Sample ID:	410-83412-8		
Client ID:	MW-111S-PDB				
Operator ID:	US19_USR_INS20260	ALS Bottle#:	12	Worklist Smp#:	4
Injection Vol:	15.0 ul	Dil. Factor:	10.0000		
Method:	MFS_IDA_30733	Limit Group:	LC - MFS_IDA		
Column:		Detector:	EXP1		

D 1 13C3 HFPO-DA, CAS: STL02255
Signal: 1

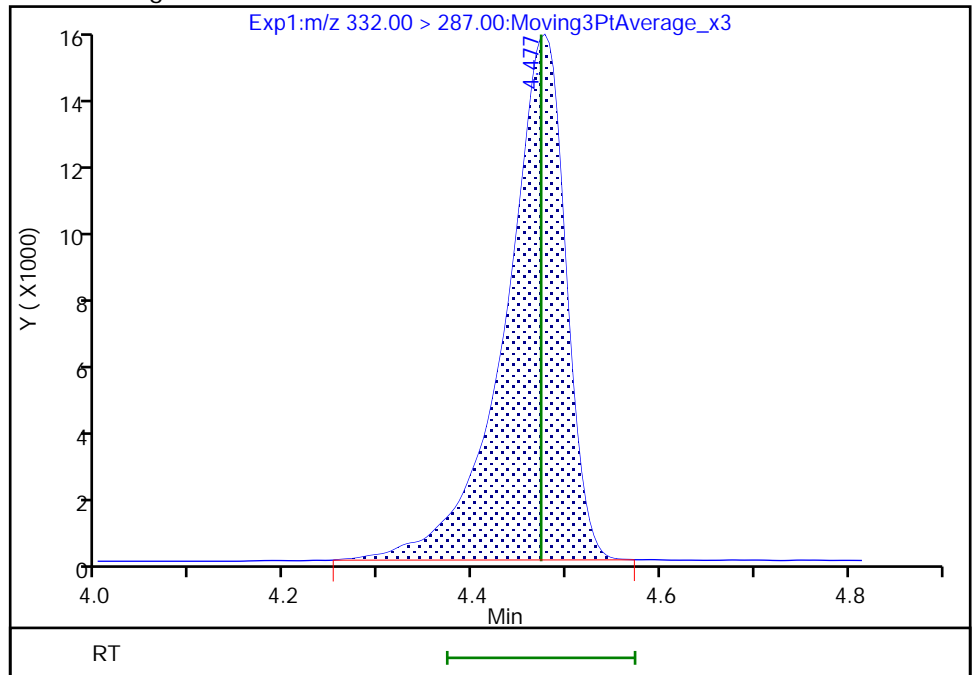
RT: 4.48
Area: 65646
Amount: 0.318317
Amount Units: ng/ml

Processing Integration Results



RT: 4.48
Area: 70019
Amount: 0.339522
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D-PDB Lab Sample ID: 410-83412-9

Matrix: Water Lab File ID: 22MAY24MFS-24.d

Analysis Method: MFS Date Collected: 05/09/2022 10:30

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 275.1(mL) Date Analyzed: 05/24/2022 12:16

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	3.4	cn	0.91	0.18
STL02875	MFS_N3	5.9	cn	0.91	0.18
STL02876	MFS_M4	ND	cn	0.91	0.45
STL02877	MFS_N4	ND	cn	1.8	0.91
STL02888	MFS_N5	ND	cn	2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-24.d
 Lims ID: 410-83412-B-9-A
 Client ID: MW-111D-PDB
 Sample Type: Client
 Inject. Date: 24-May-2022 12:16:47 ALS Bottle#: 20 Worklist Smp#: 12
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-9-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 13:59:57
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.468	0.005	0.881	389184	3.59	71.9	4240
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		2393254	5.00		4398
3 MFS_N2	461.00 > 367.00	5.309	5.301	0.008	1.187	10936626	56.5		E E
4 MFS_M3	577.00 > 483.00	5.868	5.888	-0.020	1.312	135952	0.9298		148
5 MFS_N3	627.00 > 533.00	6.083	6.091	-0.008	1.360	308691	1.63		299

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-24.d

Injection Date: 24-May-2022 12:16:47

Instrument ID: 30733

Lims ID: 410-83412-B-9-A

Lab Sample ID: 410-83412-9

Client ID: MW-111D-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 20

Worklist Smp#: 12

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

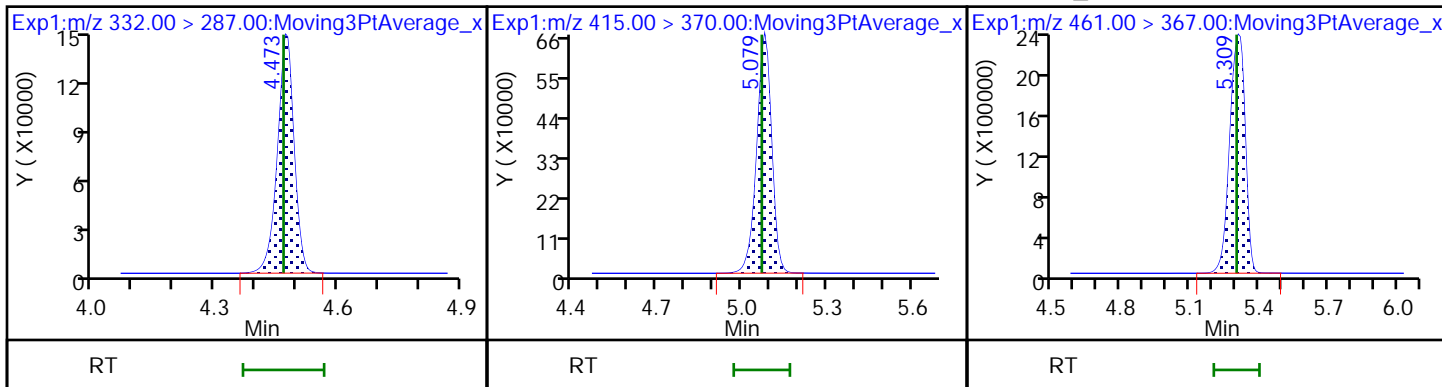
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

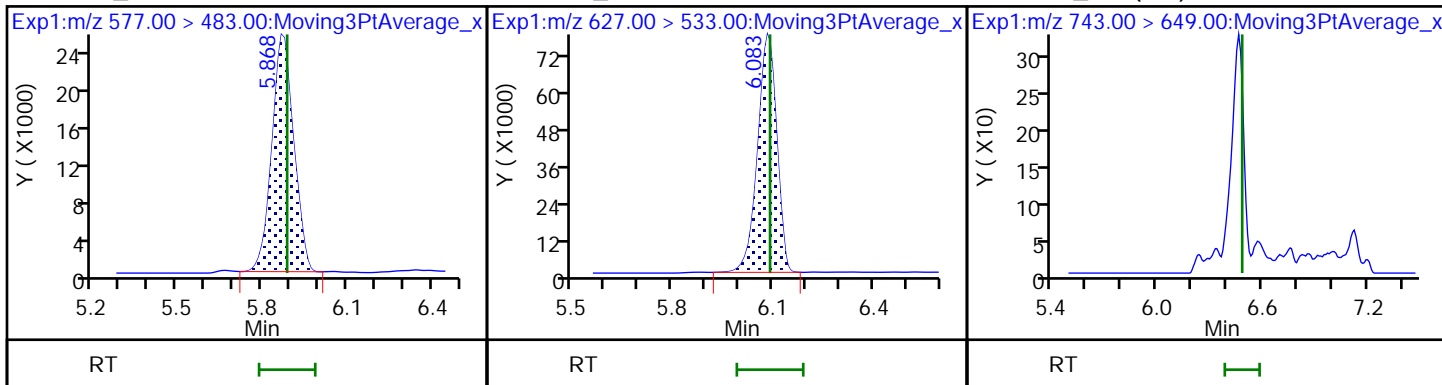
3 MFS_N2



4 MFS_M3

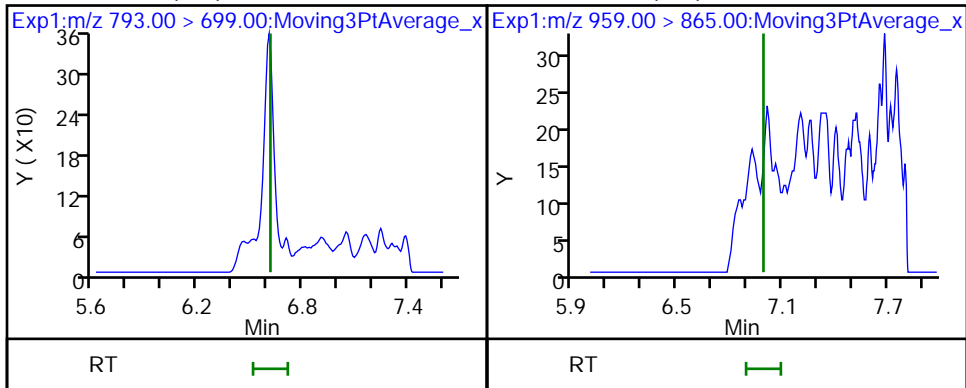
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D-PDB DL Lab Sample ID: 410-83412-9 DL

Matrix: Water Lab File ID: 22MAY31MFS-16.d

Analysis Method: MFS Date Collected: 05/09/2022 10:30

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 275.1(mL) Date Analyzed: 05/31/2022 18:24

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	180	cn	9.1	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-16.d
 Lims ID: 410-83412-B-9-A
 Client ID: MW-111D-PDB
 Sample Type: Client
 Inject. Date: 31-May-2022 18:24:10 ALS Bottle#: 13 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83412-B-9-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:38:11
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.476	4.473	0.003	0.882	67256	0.3431	68.6	694	M
* 2 13C2 PFOA									
415.00 > 370.00	5.077	5.069	0.008		4956121	5.00		3037	
3 MFS_N2									
461.00 > 367.00	5.304	5.301	0.003	1.185	1793089	4.99		2648	
5 MFS_N3									
627.00 > 533.00	6.094	6.088	0.006	1.361	55436	0.1484		85.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-16.d

Injection Date: 31-May-2022 18:24:10

Instrument ID: 30733

Lims ID: 410-83412-B-9-A

Lab Sample ID: 410-83412-9

Client ID: MW-111D-PDB

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

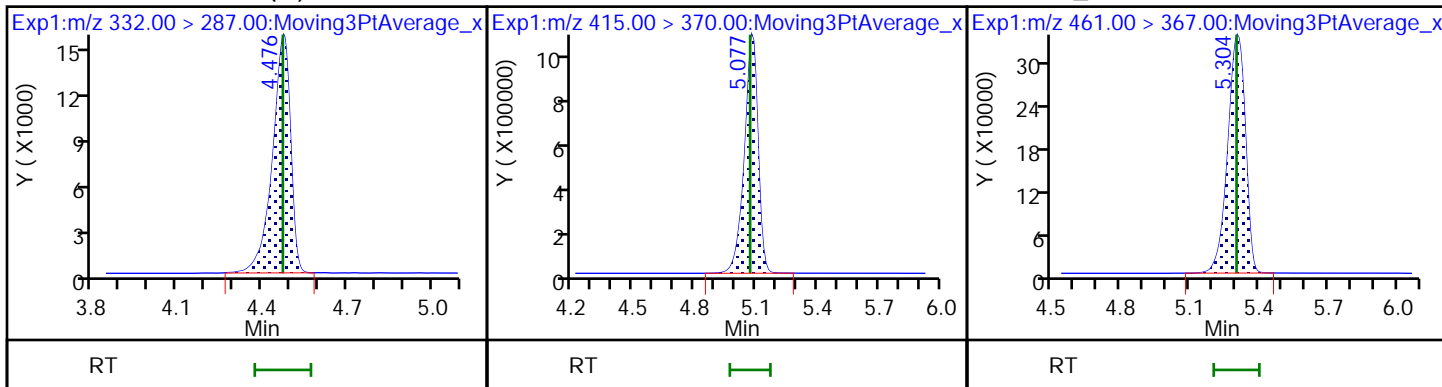
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

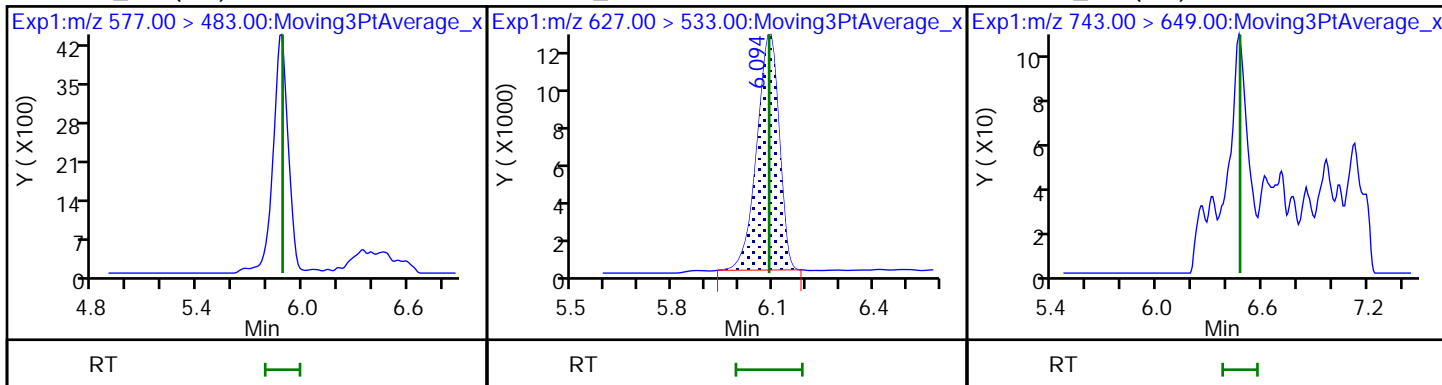
3 MFS_N2



4 MFS_M3 (ND)

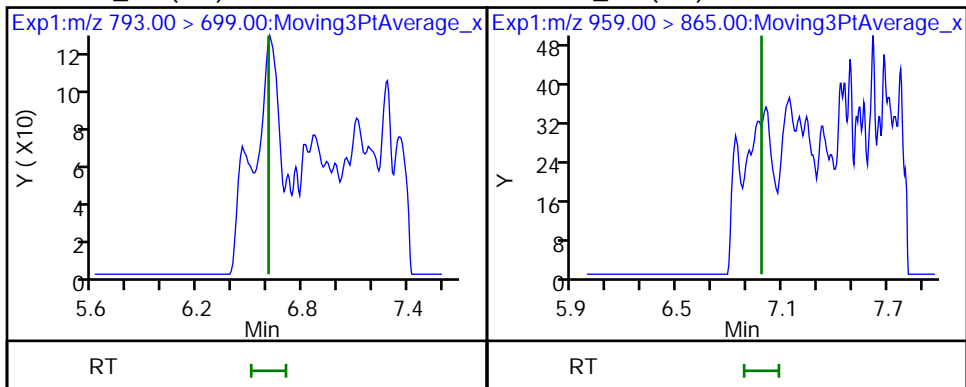
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



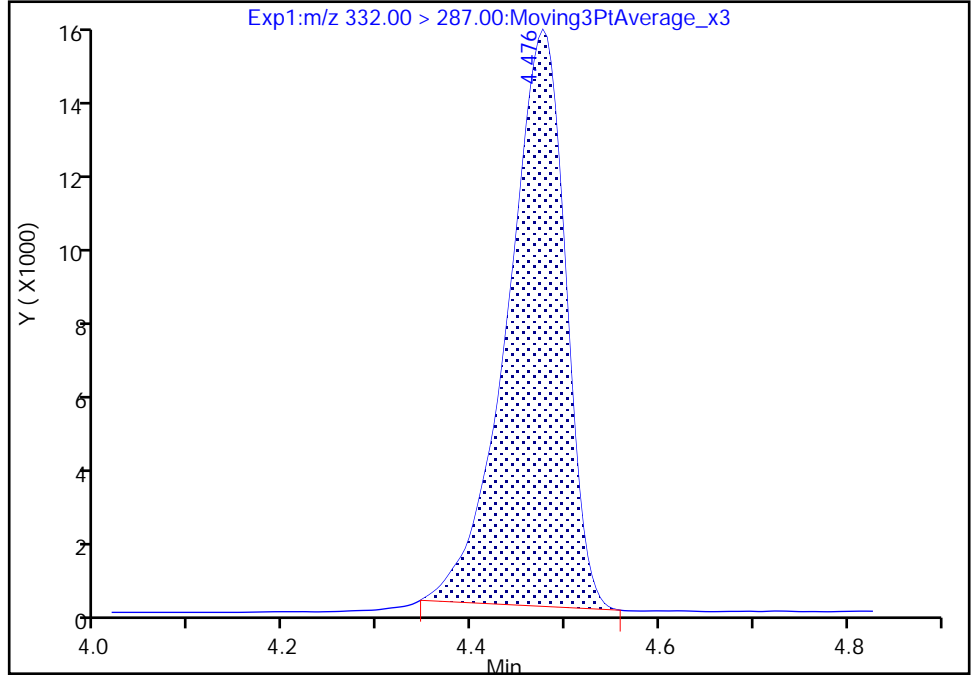
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-16.d				
Injection Date:	31-May-2022 18:24:10	Instrument ID:	30733		
Lims ID:	410-83412-B-9-A	Lab Sample ID:	410-83412-9		
Client ID:	MW-111D-PDB				
Operator ID:	US19_USR_INS20260	ALS Bottle#:	13	Worklist Smp#:	5
Injection Vol:	15.0 ul	Dil. Factor:	10.0000		
Method:	MFS_IDA_30733	Limit Group:	LC - MFS_IDA		
Column:		Detector:	EXP1		

D 1 13C3 HFPO-DA, CAS: STL02255
Signal: 1

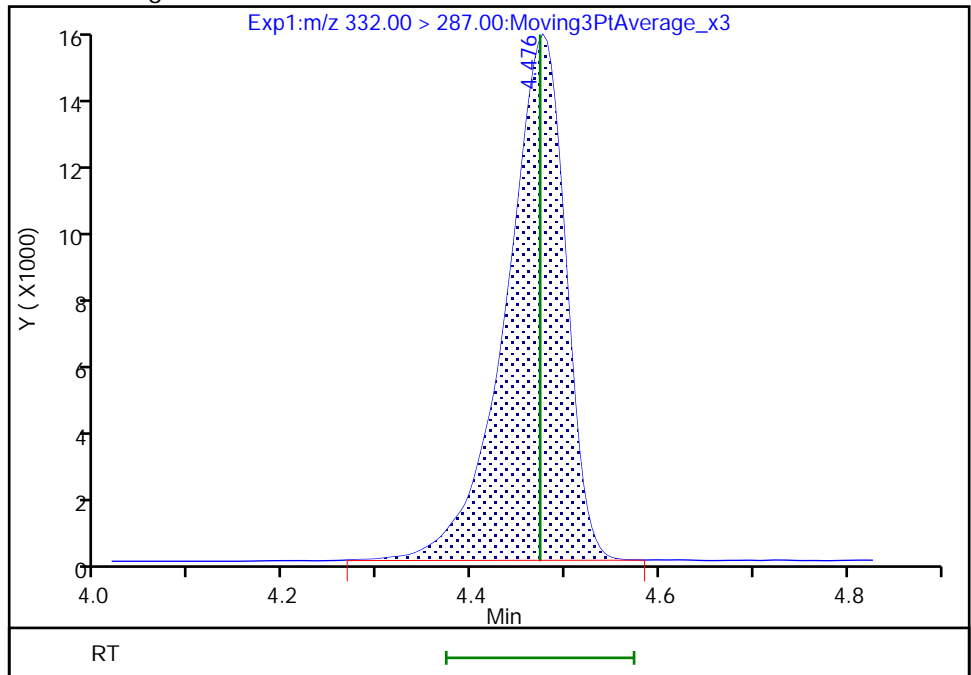
RT: 4.48
Area: 64768
Amount: 0.330366
Amount Units: ng/ml

Processing Integration Results



RT: 4.48
Area: 67256
Amount: 0.343056
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-101S Lab Sample ID: 410-83412-10

Matrix: Water Lab File ID: 22MAY24MFS-25.d

Analysis Method: MFS Date Collected: 05/10/2022 10:40

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 289.1(mL) Date Analyzed: 05/24/2022 12:29

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	20	cn	0.86	0.17
STL02874	MFS_M3	1.4	cn	0.86	0.17
STL02875	MFS_N3	6.9	cn	0.86	0.17
STL02876	MFS_M4	ND	cn	0.86	0.43
STL02877	MFS_N4	ND	cn	1.7	0.86
STL02888	MFS_N5	ND	cn	2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	70	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-25.d
 Lims ID: 410-83412-B-10-A
 Client ID: MW-101S
 Sample Type: Client
 Inject. Date: 24-May-2022 12:29:24 ALS Bottle#: 21 Worklist Smp#: 13
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-10-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 14:00:08
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.468	0.004	0.881	388893	3.50	69.9	3600
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		2458090	5.00		4511
3 MFS_N2	461.00 > 367.00	5.287	5.301	-0.014	1.182	1135676	5.87		1077
4 MFS_M3	577.00 > 483.00	5.857	5.888	-0.031	1.310	59486	0.4071		82.3
5 MFS_N3	627.00 > 533.00	6.083	6.091	-0.008	1.360	378660	2.00		338

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-25.d

Injection Date: 24-May-2022 12:29:24

Instrument ID: 30733

Lims ID: 410-83412-B-10-A

Lab Sample ID: 410-83412-10

Client ID: MW-101S

Operator ID: US19_USR_INS20260

ALS Bottle#: 21

Worklist Smp#: 13

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

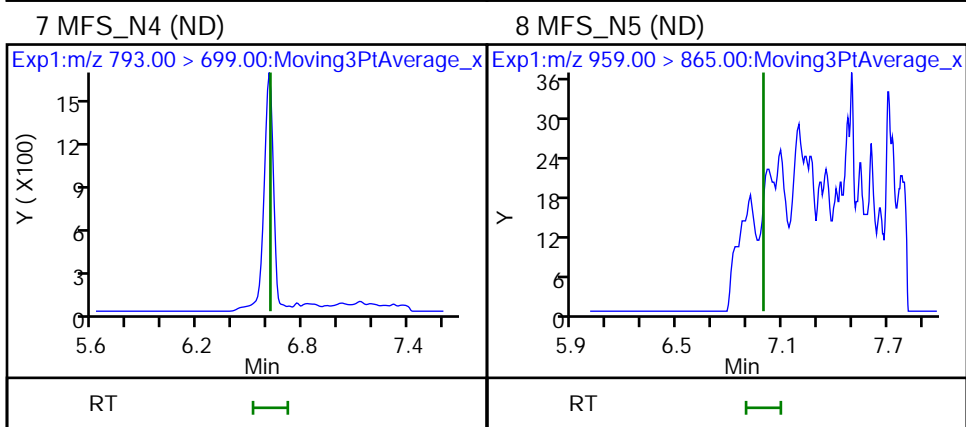
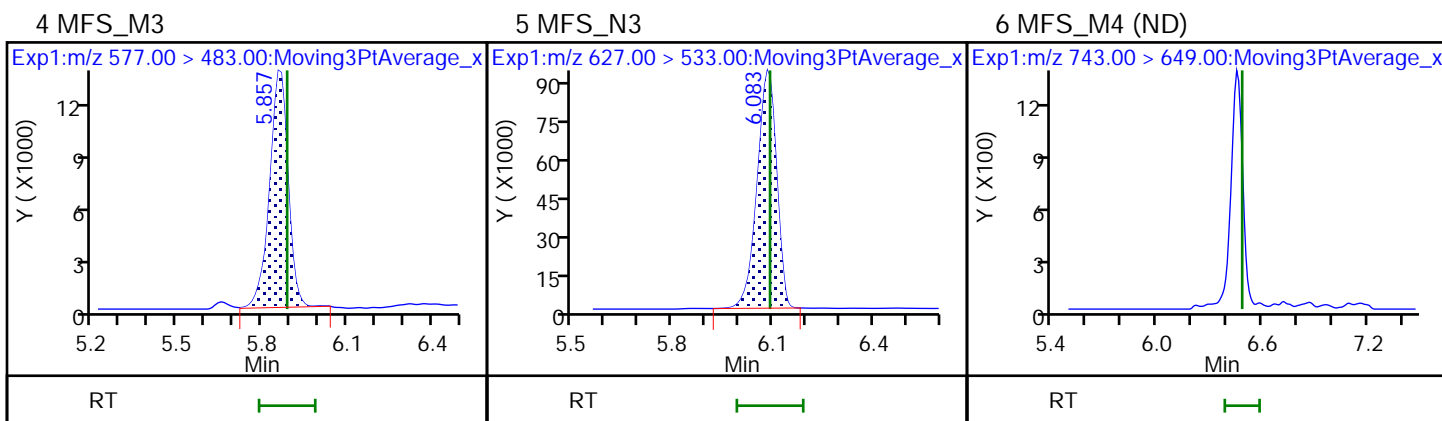
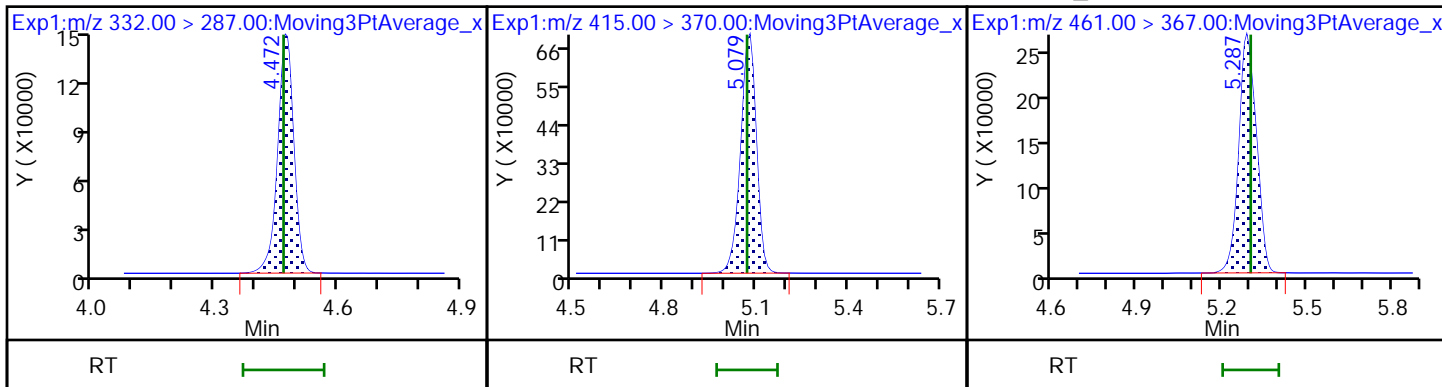
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-101D Lab Sample ID: 410-83412-11

Matrix: Water Lab File ID: 22MAY24MFS-27.d

Analysis Method: MFS Date Collected: 05/10/2022 13:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 276.9(mL) Date Analyzed: 05/24/2022 12:55

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	44	cn	0.90	0.18
STL02874	MFS_M3	6.5	cn	0.90	0.18
STL02875	MFS_N3	16	cn	0.90	0.18
STL02876	MFS_M4	ND	cn	0.90	0.45
STL02877	MFS_N4	ND	cn	1.8	0.90
STL02888	MFS_N5	ND	cn	2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	60	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-27.d
 Lims ID: 410-83412-B-11-A
 Client ID: MW-101D
 Sample Type: Client
 Inject. Date: 24-May-2022 12:55:45 ALS Bottle#: 22 Worklist Smp#: 15
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-11-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 14:03:17
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.465	4.468	-0.003	0.881	303848	2.98	59.6	2207
* 2 13C2 PFOA	415.00 > 370.00	5.070	5.069	0.001		2252993	5.00		5452
3 MFS_N2	461.00 > 367.00	5.280	5.301	-0.021	1.183	1848262	12.2		2211
4 MFS_M3	577.00 > 483.00	5.868	5.888	-0.020	1.314	205201	1.80		279
5 MFS_N3	627.00 > 533.00	6.084	6.091	-0.007	1.363	639401	4.32		534

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-27.d

Injection Date: 24-May-2022 12:55:45

Instrument ID: 30733

Lims ID: 410-83412-B-11-A

Lab Sample ID: 410-83412-11

Client ID: MW-101D

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 15

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

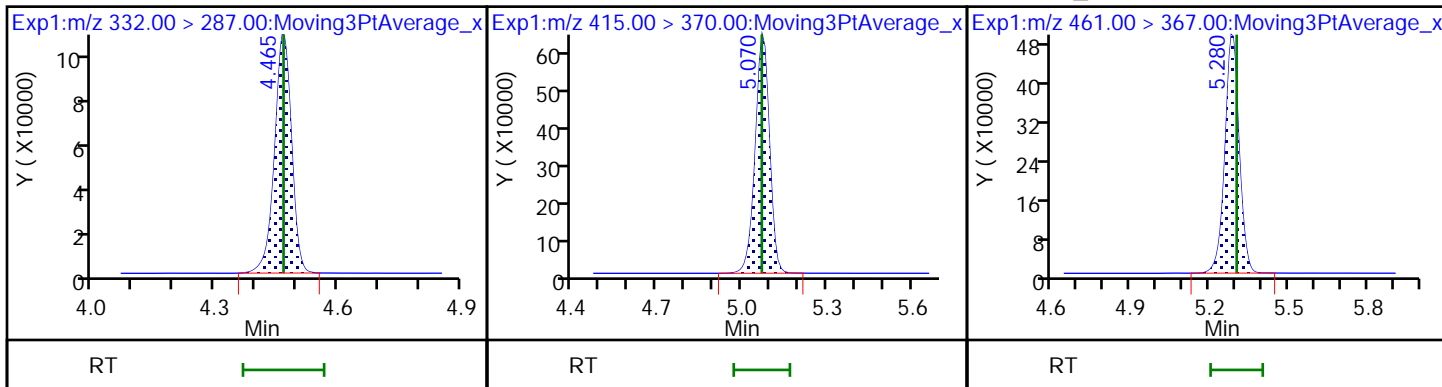
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

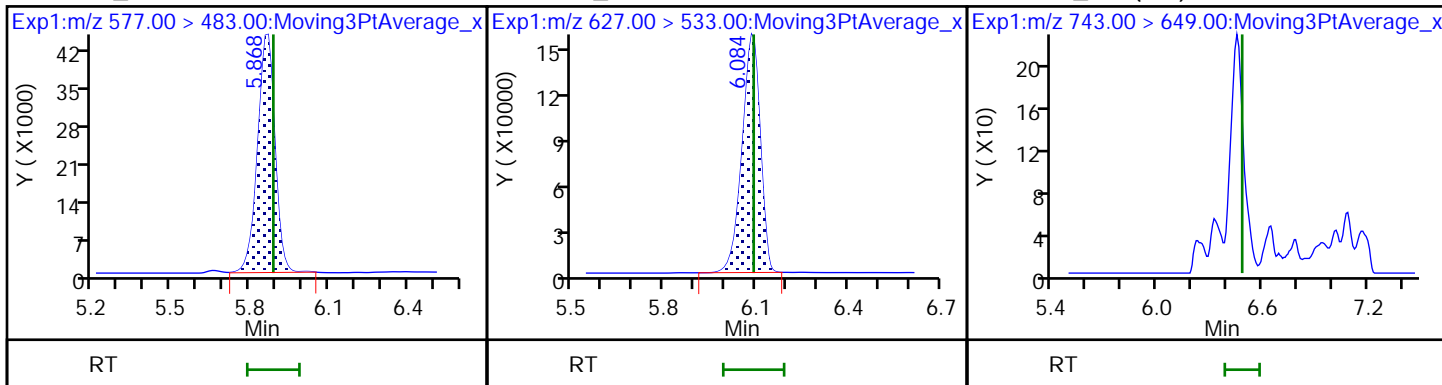
3 MFS_N2



4 MFS_M3

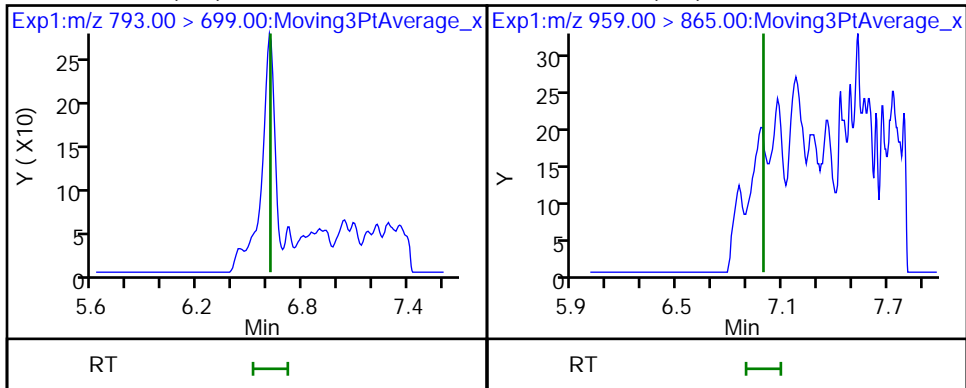
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_05102022 Lab Sample ID: 410-83412-12

Matrix: Water Lab File ID: 22MAY24MFS-28.d

Analysis Method: MFS Date Collected: 05/10/2022 11:18

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 280.7(mL) Date Analyzed: 05/24/2022 13:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND	cn	0.89	0.18
STL02874	MFS_M3	ND	cn	0.89	0.18
STL02875	MFS_N3	ND	cn	0.89	0.18
STL02876	MFS_M4	ND	cn	0.89	0.45
STL02877	MFS_N4	ND	cn	1.8	0.89
STL02888	MFS_N5	ND	cn	2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	68	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-28.d
 Lims ID: 410-83412-B-12-A
 Client ID: EB_05102022
 Sample Type: Client
 Inject. Date: 24-May-2022 13:08:22 ALS Bottle#: 23 Worklist Smp#: 16
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83412-B-12-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 25-May-2022 07:41:56
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.475 4.468 0.007 0.881 440346 3.39 67.8 3308
 * 2 13C2 PFOA
 415.00 > 370.00 5.077 5.069 0.008 2868846 5.00 4969

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-28.d

Injection Date: 24-May-2022 13:08:22

Instrument ID: 30733

Lims ID: 410-83412-B-12-A

Lab Sample ID: 410-83412-12

Client ID: EB_05102022

Operator ID: US19_USR_INS20260

ALS Bottle#: 23

Worklist Smp#: 16

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

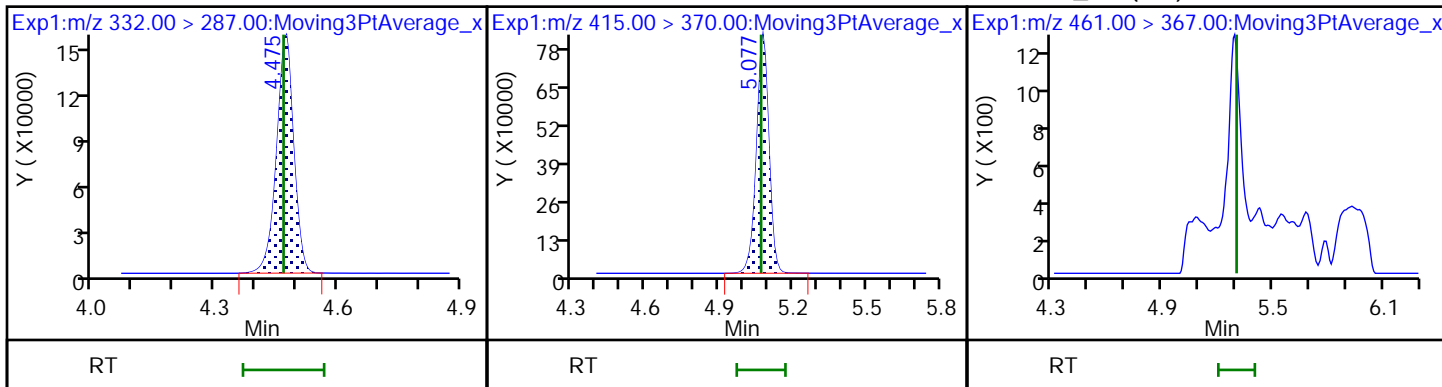
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

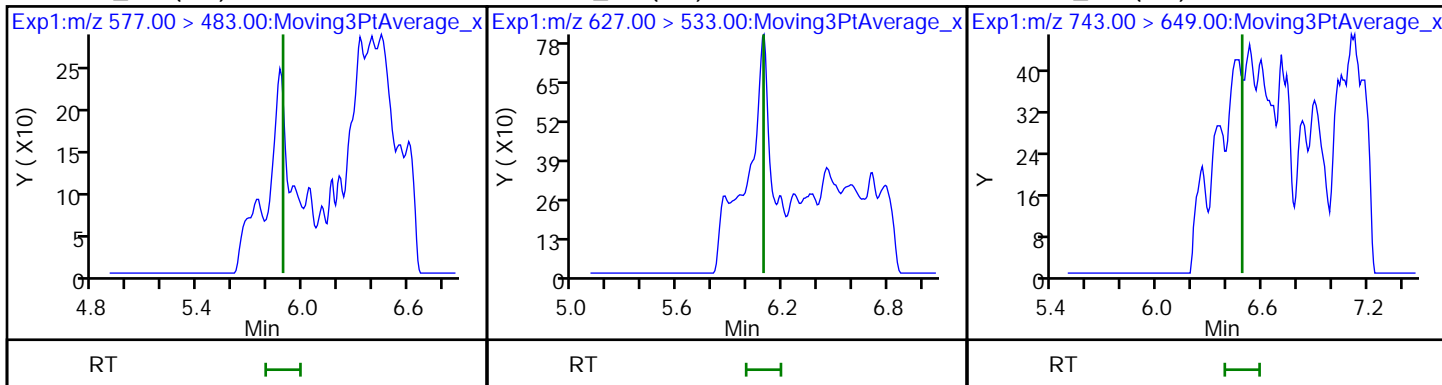
3 MFS_N2 (ND)



4 MFS_M3 (ND)

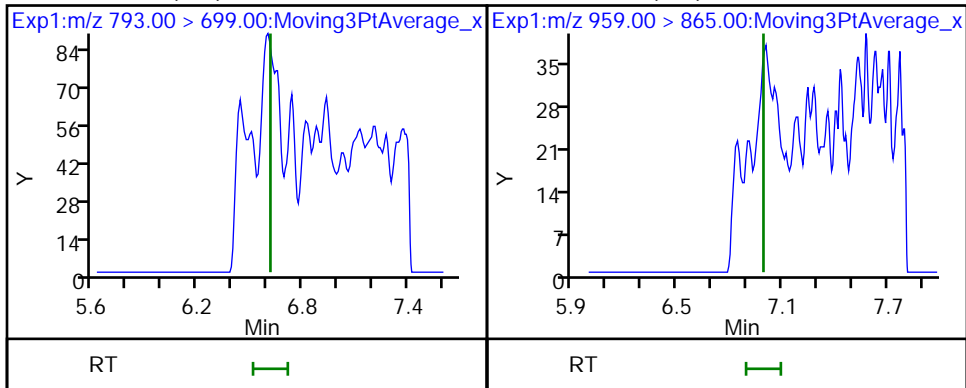
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 258360

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2022 07:24 Calibration End Date: 05/24/2022 08:41 Calibration ID: 38942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-258360/1	22MAY24MFS-01.d
Level 2	IC 410-258360/2	22MAY24MFS-02.d
Level 3	IC 410-258360/3	22MAY24MFS-03.d
Level 4	IC 410-258360/4	22MAY24MFS-04.d
Level 5	ICISAV 410-258360/5	22MAY24MFS-05.d
Level 6	IC 410-258360/6	22MAY24MFS-06.d
Level 7	IC 410-258360/7	22MAY24MFS-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	2.3736 2.3699	2.4105 2.5628	2.5080	2.5097	2.4019	LID1 F	2.487 9							0.9990		0.9900	
MFS_M3	1.6664 1.8769	1.8794 1.9055	1.9039	1.9180	1.7305	LID1 F	1.878 5							0.9990		0.9900	
MFS_N3	1.8901 2.4475	2.4784 2.4231	2.5095	2.3960	2.4788	LID1 F	2.434 2							1.0000		0.9900	
MFS_M4	0.7935 0.9789	0.9350 0.9170	0.9859	0.8977	0.8965	LID1 F	0.931 1							0.9990		0.9900	
MFS_N4	0.8679 0.8865	0.9727 0.8982	1.0708	0.9853	0.8909	LID1 F	0.901 2							0.9990		0.9900	
MFS_N5	0.6683 0.8427	0.7614 0.8383	0.7695	0.8152	0.7325	LID1 F	0.825 1							0.9980		0.9900	
13C3 HFPO-DA	0.2451 0.2199	0.2413 0.2077	0.2119	0.2244	0.2333	Ave	0.226 2				6.3						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 258360

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2022 07:24 Calibration End Date: 05/24/2022 08:41 Calibration ID: 38942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-258360/1	22MAY24MFS-01.d
Level 2	IC 410-258360/2	22MAY24MFS-02.d
Level 3	IC 410-258360/3	22MAY24MFS-03.d
Level 4	IC 410-258360/4	22MAY24MFS-04.d
Level 5	ICISAV 410-258360/5	22MAY24MFS-05.d
Level 6	IC 410-258360/6	22MAY24MFS-06.d
Level 7	IC 410-258360/7	22MAY24MFS-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		LID1	96107	205409	353523	1885610	3726251	0.252	0.505	1.01	5.05	10.1
		F	9714534	19176742				25.2	50.5			
MFS_M3		LID1	67579	160413	268808	1443332	2689035	0.253	0.505	1.01	5.05	10.1
		F	7706034	14280950				25.3	50.5			
MFS_N3		LID1	75950	209592	351052	1786530	3816353	0.250	0.501	1.00	5.01	10.0
		F	9956258	17993887				25.0	50.1			
MFS_M4		LID1	32463	80506	140423	681451	1405313	0.255	0.510	1.02	5.10	10.2
		F	4054344	6933058				25.5	51.0			
MFS_N4		LID1	34975	82499	150226	736792	1375631	0.251	0.502	1.00	5.02	10.0
		F	3616805	6689405				25.1	50.2			
MFS_N5		LID1	26836	64350	107577	607435	1127069	0.250	0.500	1.00	5.00	10.0
		F	3425952	6221677				25.0	50.0			
13C3 HFPO-DA	13PF OA	Ave	802422	844396	698378	744490	768626	5.00	5.00	5.00	5.00	5.00
			812348	741462				5.00	5.00			

Curve Type Legend

Ave = Average ISTD
LID1F = Linear 1/Conc IsoDil FZ

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 258360

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2022 07:24 Calibration End Date: 05/24/2022 08:41 Calibration ID: 38942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-258360/1	22MAY24MFS-01.d
Level 2	IC 410-258360/2	22MAY24MFS-02.d
Level 3	IC 410-258360/3	22MAY24MFS-03.d
Level 4	IC 410-258360/4	22MAY24MFS-04.d
Level 5	ICISAV 410-258360/5	22MAY24MFS-05.d
Level 6	IC 410-258360/6	22MAY24MFS-06.d
Level 7	IC 410-258360/7	22MAY24MFS-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-4.6 3.0	-3.1	0.8	0.9	-3.5	-4.7	50 30	30	30	30	30	30
MFS_M3	-11.3 1.4	0.0	1.4	2.1	-7.9	-0.1	50 30	30	30	30	30	30
MFS_N3	-22.3 -0.5	1.8	3.1	-1.6	1.8	0.5	50 30	30	30	30	30	30
MFS_M4	-14.8 -1.5	0.4	5.9	-3.6	-3.7	5.1	50 30	30	30	30	30	30
MFS_N4	-3.7 -0.3	7.9	18.8	9.3	-1.1	-1.6	50 30	30	30	30	30	30
MFS_N5	-19.0 1.6	-7.7	-6.7	-1.2	-11.2	2.1	50 30	30	30	30	30	30
13C3 HFPO-DA	8.3						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-May-2022 07:24:00 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:49 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:26

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.486	4.475	0.011	0.882	802422	5.42	108	3352
* 2 13C2 PFOA	415.00 > 370.00	5.089	5.078	0.011		3273772	5.00		5227
3 MFS_N2	461.00 > 367.00	5.324	5.311	0.013	1.187	96107	0.2407	95.4	120
4 MFS_M3	577.00 > 483.00	5.900	5.896	0.004	1.315	67579	0.2242	88.7	71.0
5 MFS_N3	627.00 > 533.00	6.101	6.094	0.007	1.360	75950	0.1944	77.7	104
6 MFS_M4	743.00 > 649.00	6.487	6.484	0.003	1.446	32463	0.2173	85.2	342
7 MFS_N4	793.00 > 699.00	6.619	6.615	0.004	1.476	34975	0.2418	96.3	320
8 MFS_N5	959.00 > 865.00	6.994	6.990	0.004	1.559	26836	0.2027	81.0	351

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-01.d

Injection Date: 24-May-2022 07:24:00

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

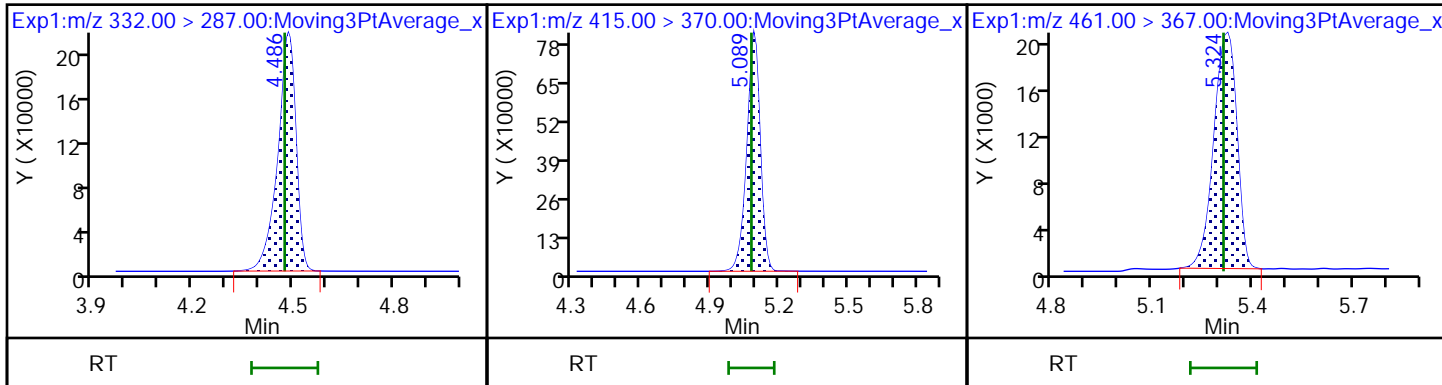
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

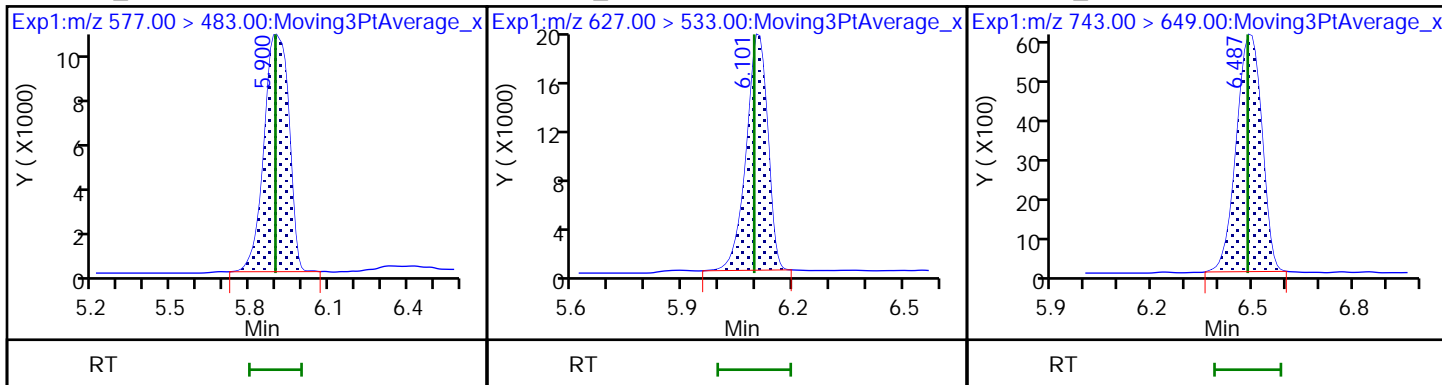
3 MFS_N2



4 MFS_M3

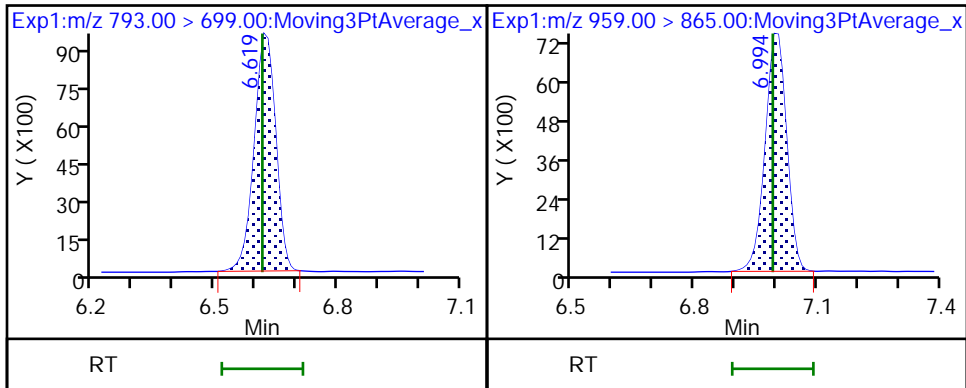
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-May-2022 07:38:02 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:50 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:32

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.475	-0.002	0.881	844396	5.33	107	2845
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.078	0.001		3498867	5.00		4513
3 MFS_N2	461.00 > 367.00	5.310	5.311	-0.001	1.187	205409	0.4889	96.9	220
4 MFS_M3	577.00 > 483.00	5.900	5.896	0.004	1.319	160413	0.5057	100	171
5 MFS_N3	627.00 > 533.00	6.092	6.094	-0.002	1.362	209592	0.5099	102	230
6 MFS_M4	743.00 > 649.00	6.475	6.484	-0.009	1.448	80506	0.5120	100	618
7 MFS_N4	793.00 > 699.00	6.610	6.615	-0.005	1.478	82499	0.5421	108	590
8 MFS_N5	959.00 > 865.00	6.985	6.990	-0.005	1.562	64350	0.4618	92.3	870

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-02.d

Injection Date: 24-May-2022 07:38:02

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

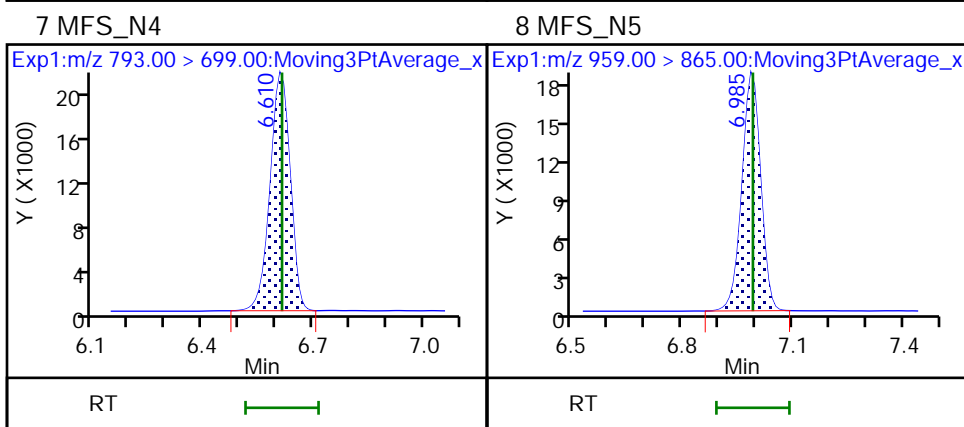
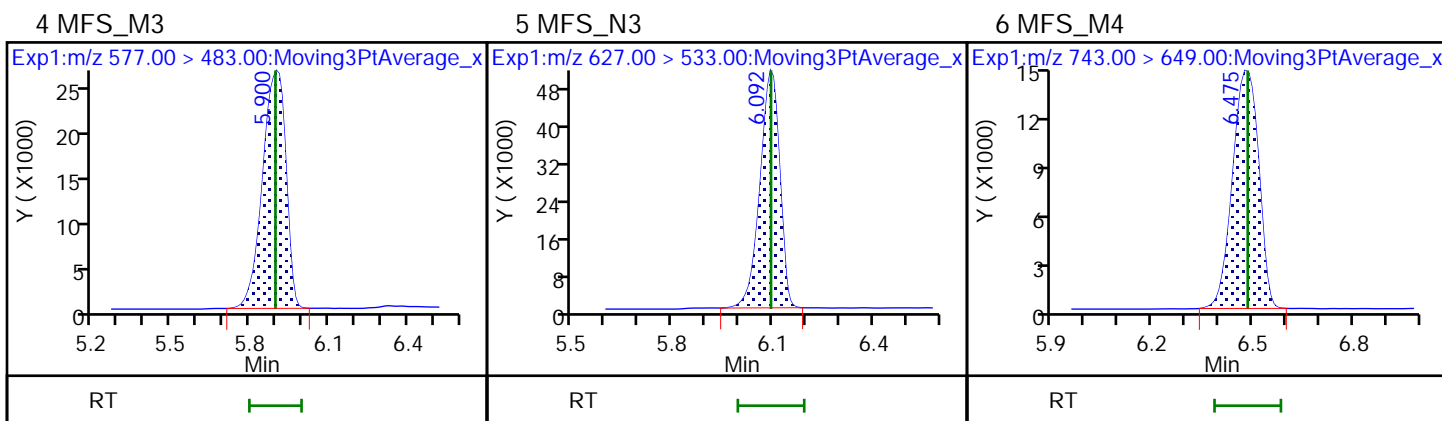
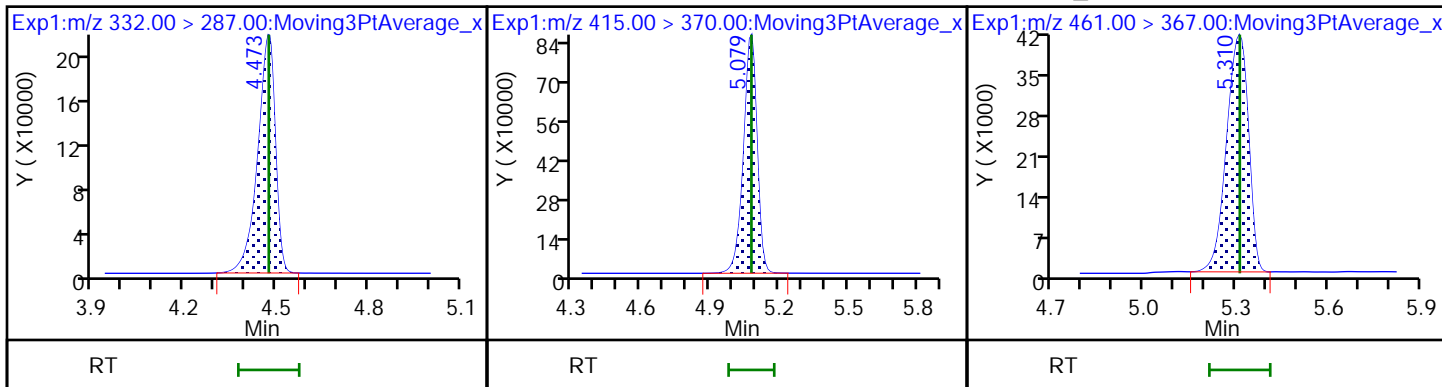
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-May-2022 07:50:39 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:50 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:52

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.470	4.475	-0.005	0.881	698378	4.68	93.7	2375
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.078	-0.002		3295778	5.00		4791
3 MFS_N2	461.00 > 367.00	5.303	5.311	-0.008	1.186	353523	1.02	101	338
4 MFS_M3	577.00 > 483.00	5.890	5.896	-0.006	1.318	268808	1.02	101	252
5 MFS_N3	627.00 > 533.00	6.093	6.094	-0.001	1.363	351052	1.03	103	358
6 MFS_M4	743.00 > 649.00	6.487	6.484	0.003	1.451	140423	1.08	106	919
7 MFS_N4	793.00 > 699.00	6.610	6.615	-0.005	1.479	150226	1.19	119	946
8 MFS_N5	959.00 > 865.00	6.985	6.990	-0.005	1.563	107577	0.9335	93.3	1406

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-03.d

Injection Date: 24-May-2022 07:50:39

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

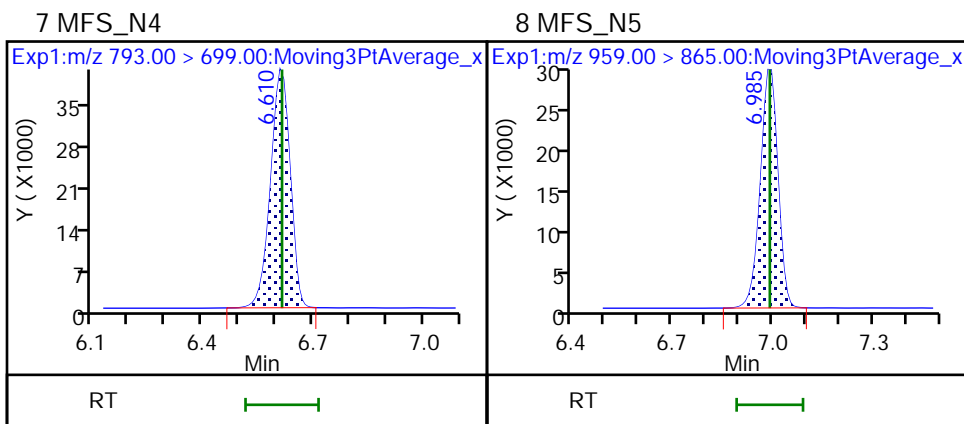
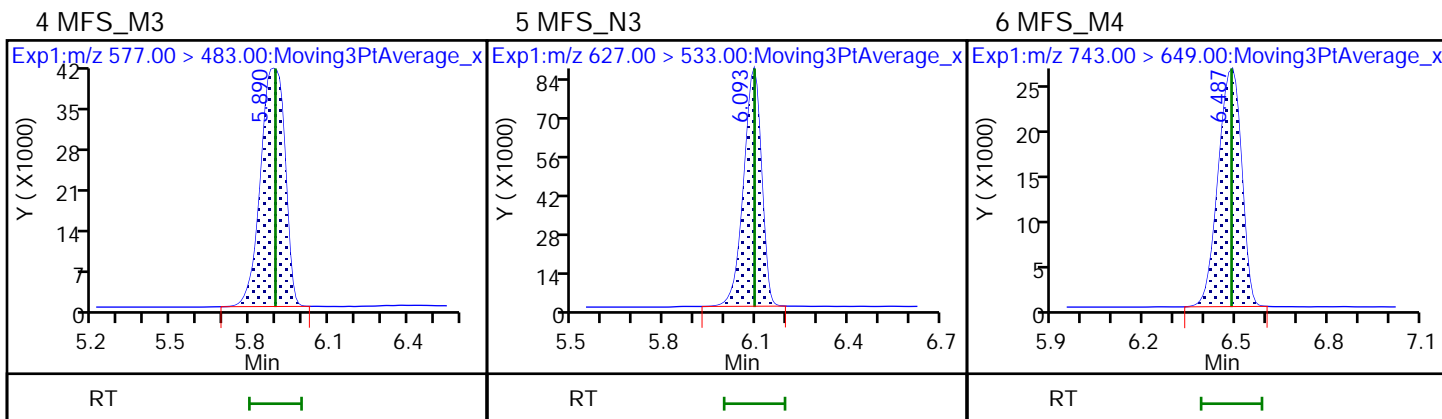
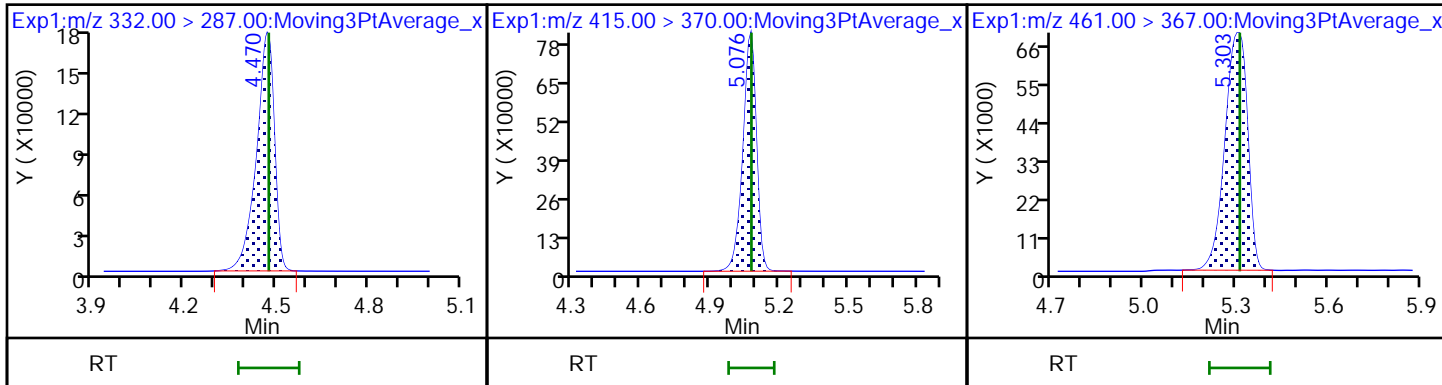
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 24-May-2022 08:03:16 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:51 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:57

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.476	4.475	0.001	0.882	744490	4.96	99.2	2445
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.078	0.0		3317384	5.00		4681
3 MFS_N2	461.00 > 367.00	5.314	5.311	0.003	1.187	1885610	5.09	101	1636
4 MFS_M3	577.00 > 483.00	5.896	5.896	0.0	1.317	1443332	5.16	102	936
5 MFS_N3	627.00 > 533.00	6.097	6.094	0.003	1.362	1786530	4.93	98.4	1145
6 MFS_M4	743.00 > 649.00	6.482	6.484	-0.002	1.448	681451	4.92	96.4	2214
7 MFS_N4	793.00 > 699.00	6.615	6.615	0.0	1.478	736792	5.49	109	2334
8 MFS_N5	959.00 > 865.00	6.990	6.990	0.0	1.562	607435	4.94	98.8	3568

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-04.d

Injection Date: 24-May-2022 08:03:16

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

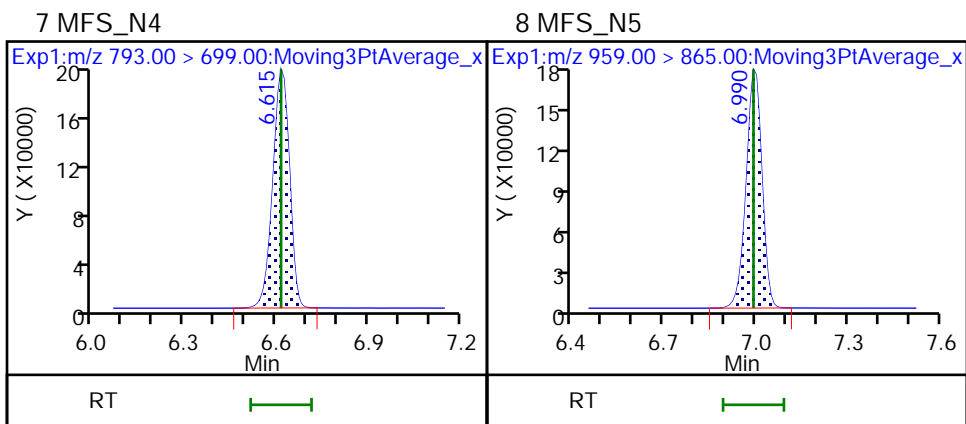
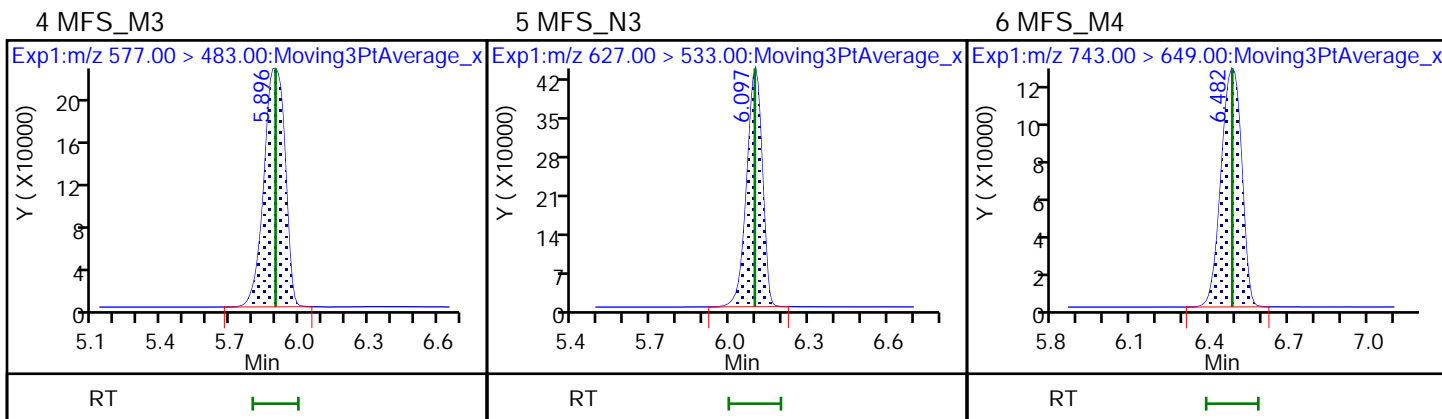
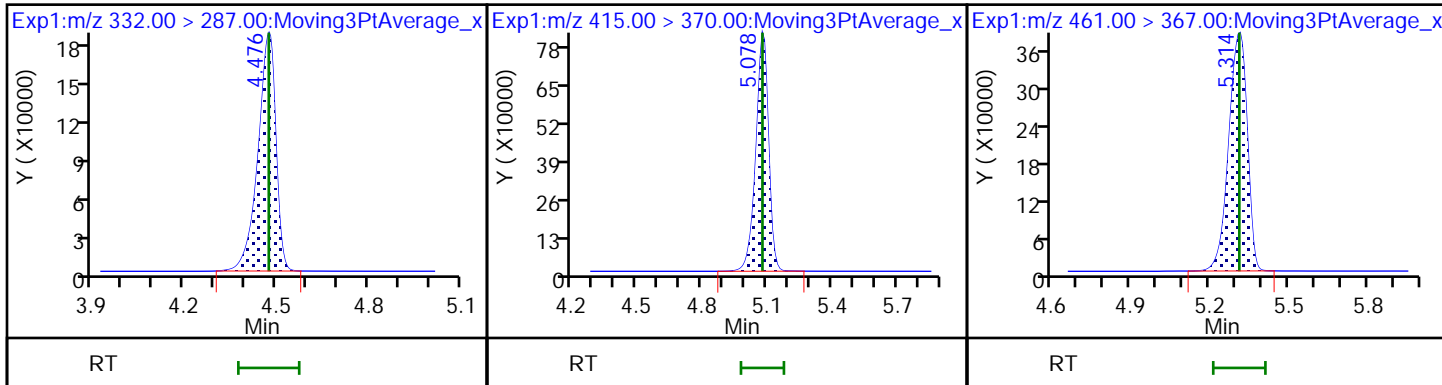
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 24-May-2022 08:15:56 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:52 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 14:01:04

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.477	4.475	0.002	0.881	768626	5.16	103	2562
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.078	0.001		3293936	5.00		4320
3 MFS_N2	461.00 > 367.00	5.316	5.311	0.005	1.187	3726251	9.74	96.5	2938
4 MFS_M3	577.00 > 483.00	5.889	5.896	-0.007	1.315	2689035	9.31	92.1	1177
5 MFS_N3	627.00 > 533.00	6.092	6.094	-0.002	1.361	3816353	10.2	102	1990
6 MFS_M4	743.00 > 649.00	6.486	6.484	0.002	1.449	1405313	9.82	96.3	2459
7 MFS_N4	793.00 > 699.00	6.619	6.615	0.004	1.478	1375631	9.93	98.9	2684
8 MFS_N5	959.00 > 865.00	6.994	6.990	0.004	1.562	1127069	8.89	88.8	3772

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-05.d

Injection Date: 24-May-2022 08:15:56

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

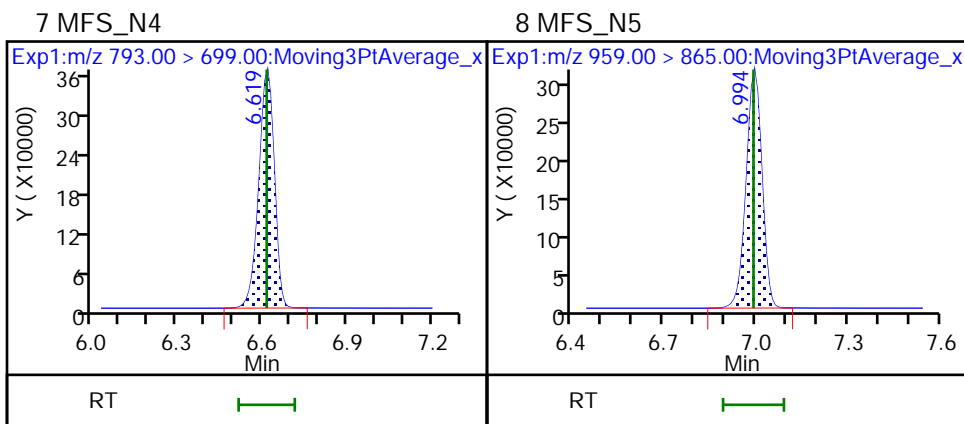
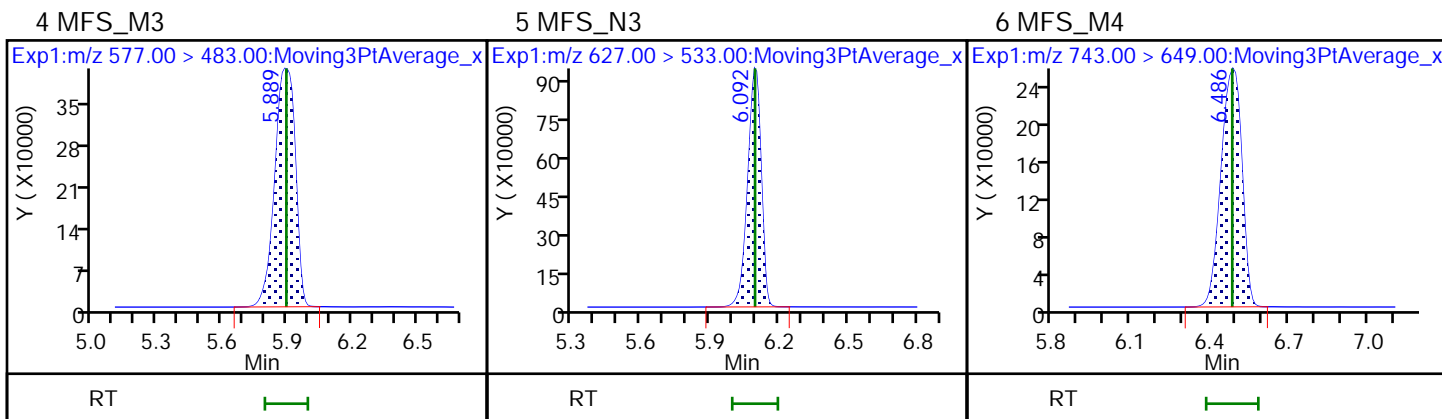
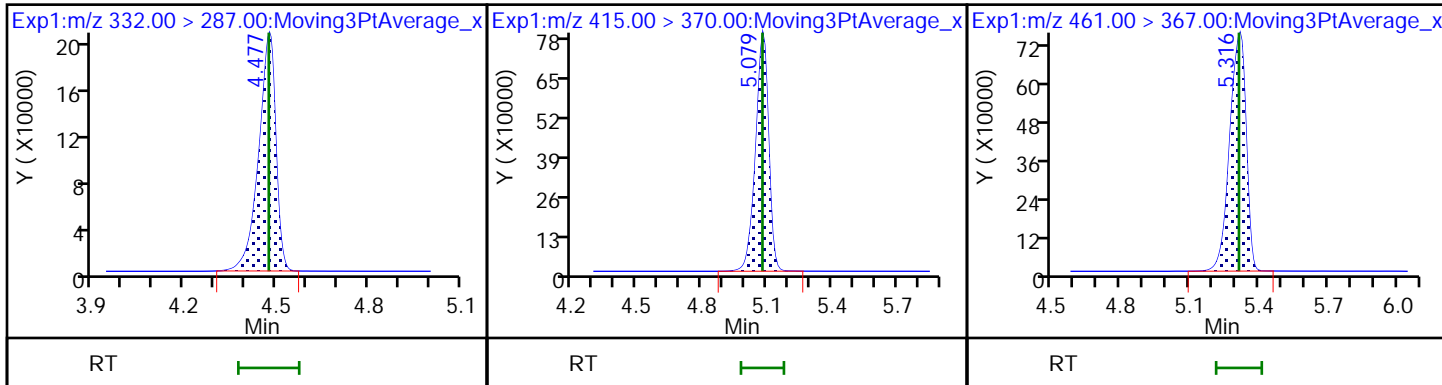
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 24-May-2022 08:28:34 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:52 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:04

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.475	4.475	0.0	0.881	812348	4.86	97.2	2484
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.078	-0.002		3694878	5.00		4004
3 MFS_N2	461.00 > 367.00	5.310	5.311	-0.001	1.187	9714534	24.0	95.3	6553
4 MFS_M3	577.00 > 483.00	5.911	5.896	0.015	1.321	7706034	25.2	99.9	2370
5 MFS_N3	627.00 > 533.00	6.093	6.094	-0.001	1.362	9956258	25.2	101	3437
6 MFS_M4	743.00 > 649.00	6.487	6.484	0.003	1.450	4054344	26.8	105	4586
7 MFS_N4	793.00 > 699.00	6.619	6.615	0.004	1.479	3616805	24.7	98.4	3805
8 MFS_N5	959.00 > 865.00	6.994	6.990	0.004	1.563	3425952	25.6	102	5481

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-06.d

Injection Date: 24-May-2022 08:28:34

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

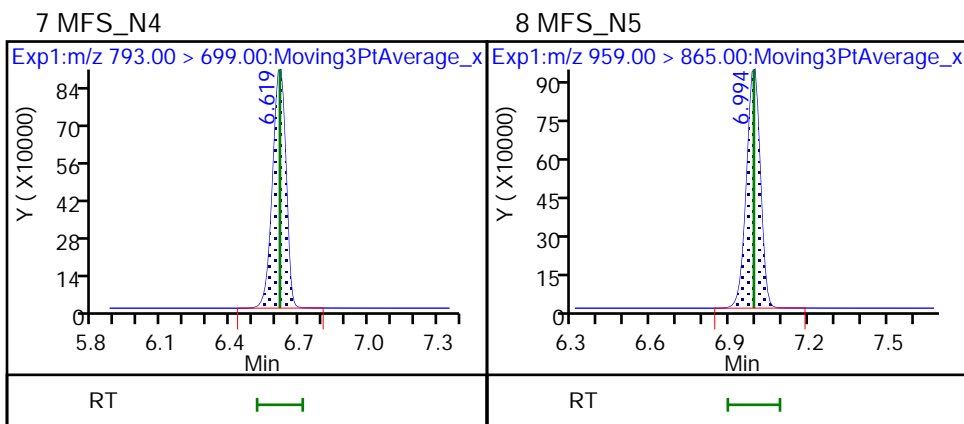
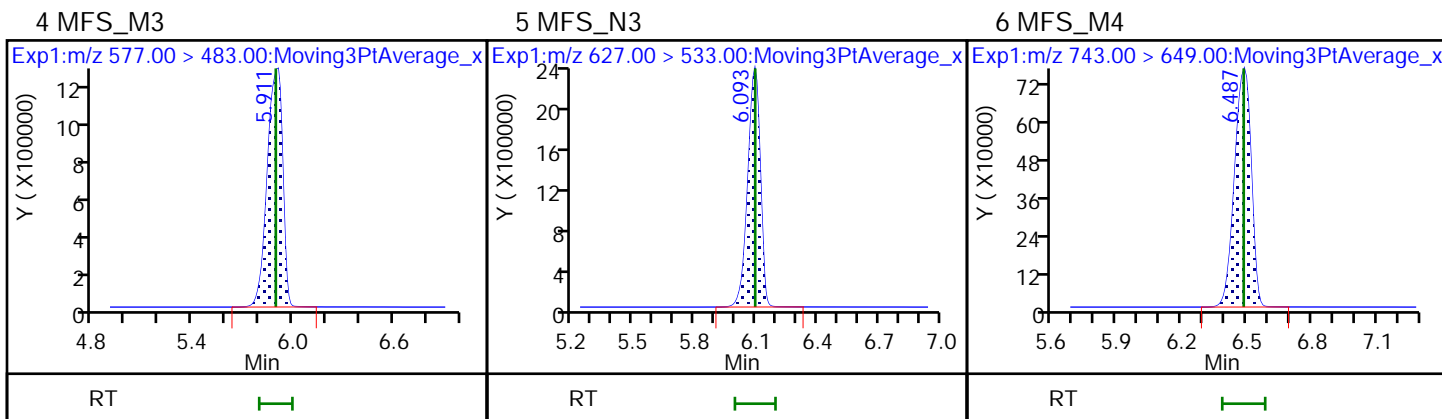
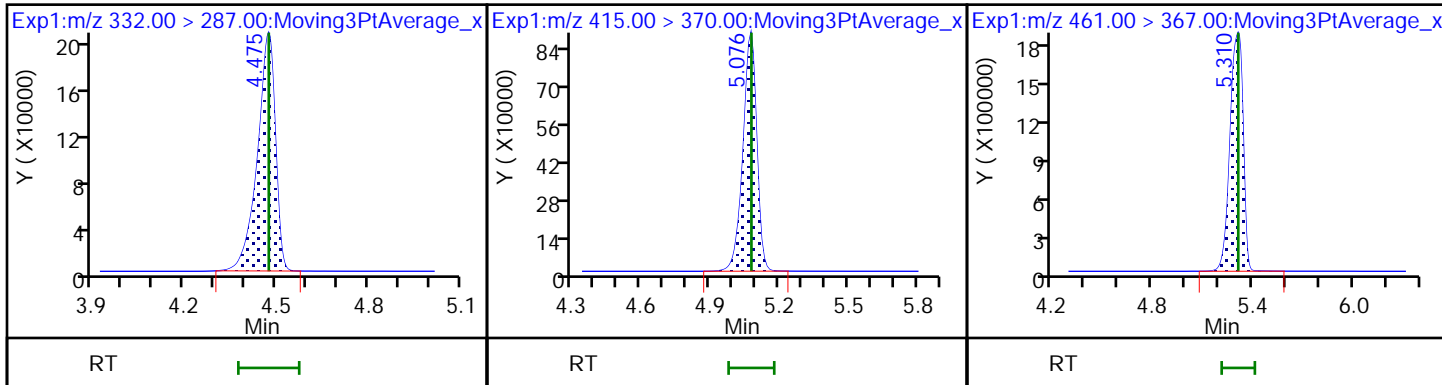
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 24-May-2022 08:41:11 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:53 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:11

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.468	4.475	-0.007	0.881	741462	4.59	91.8	2415
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.078	-0.009		3569221	5.00		4081
3 MFS_N2	461.00 > 367.00	5.301	5.311	-0.010	1.187	19176742	52.0	103	12844
4 MFS_M3	577.00 > 483.00	5.888	5.896	-0.008	1.318	14280950	51.3	101	2780
5 MFS_N3	627.00 > 533.00	6.091	6.094	-0.003	1.363	17993887	49.8	99.5	4672
6 MFS_M4	743.00 > 649.00	6.483	6.484	-0.001	1.451	6933058	50.2	98.5	4010
7 MFS_N4	793.00 > 699.00	6.616	6.615	0.001	1.481	6689405	50.1	99.7	5182
8 MFS_N5	959.00 > 865.00	6.990	6.990	0.0	1.565	6221677	50.8	102	5823

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Injection Date: 24-May-2022 08:41:11

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

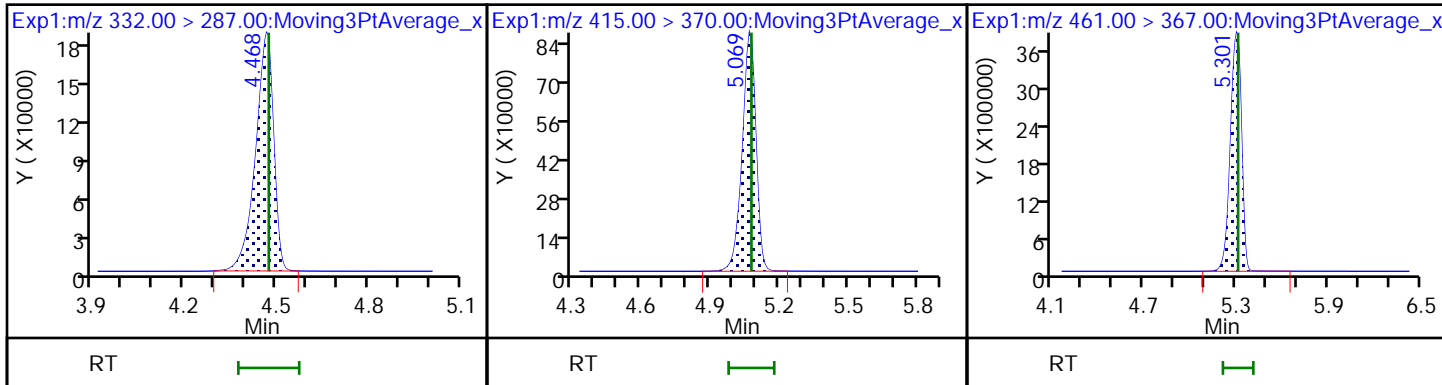
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

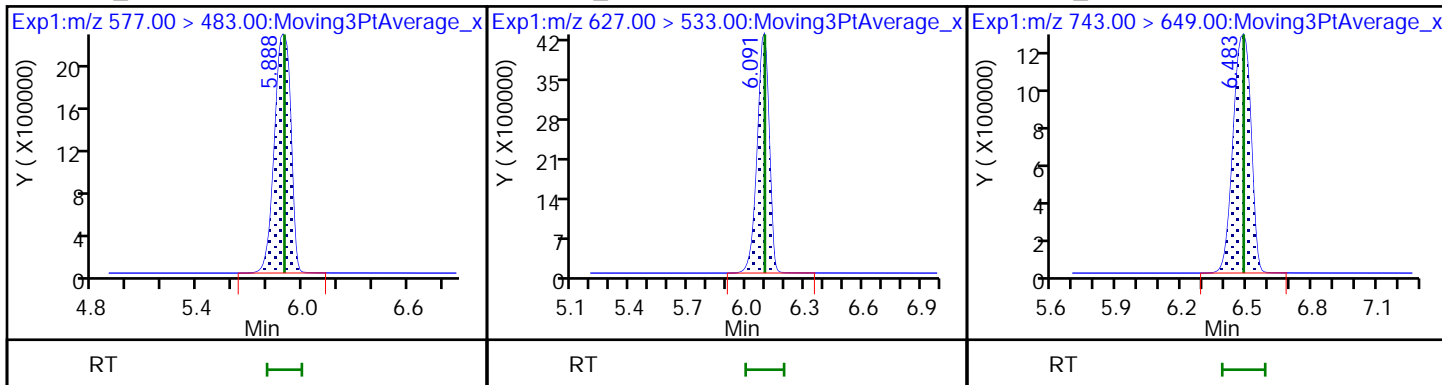
3 MFS_N2



4 MFS_M3

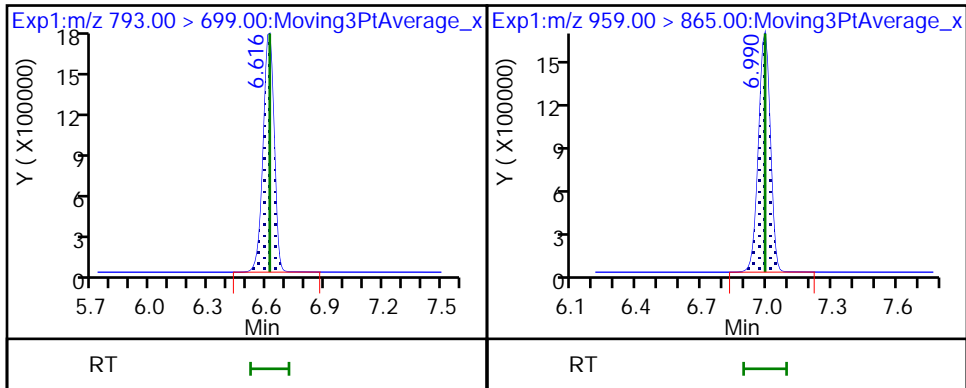
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Calibration

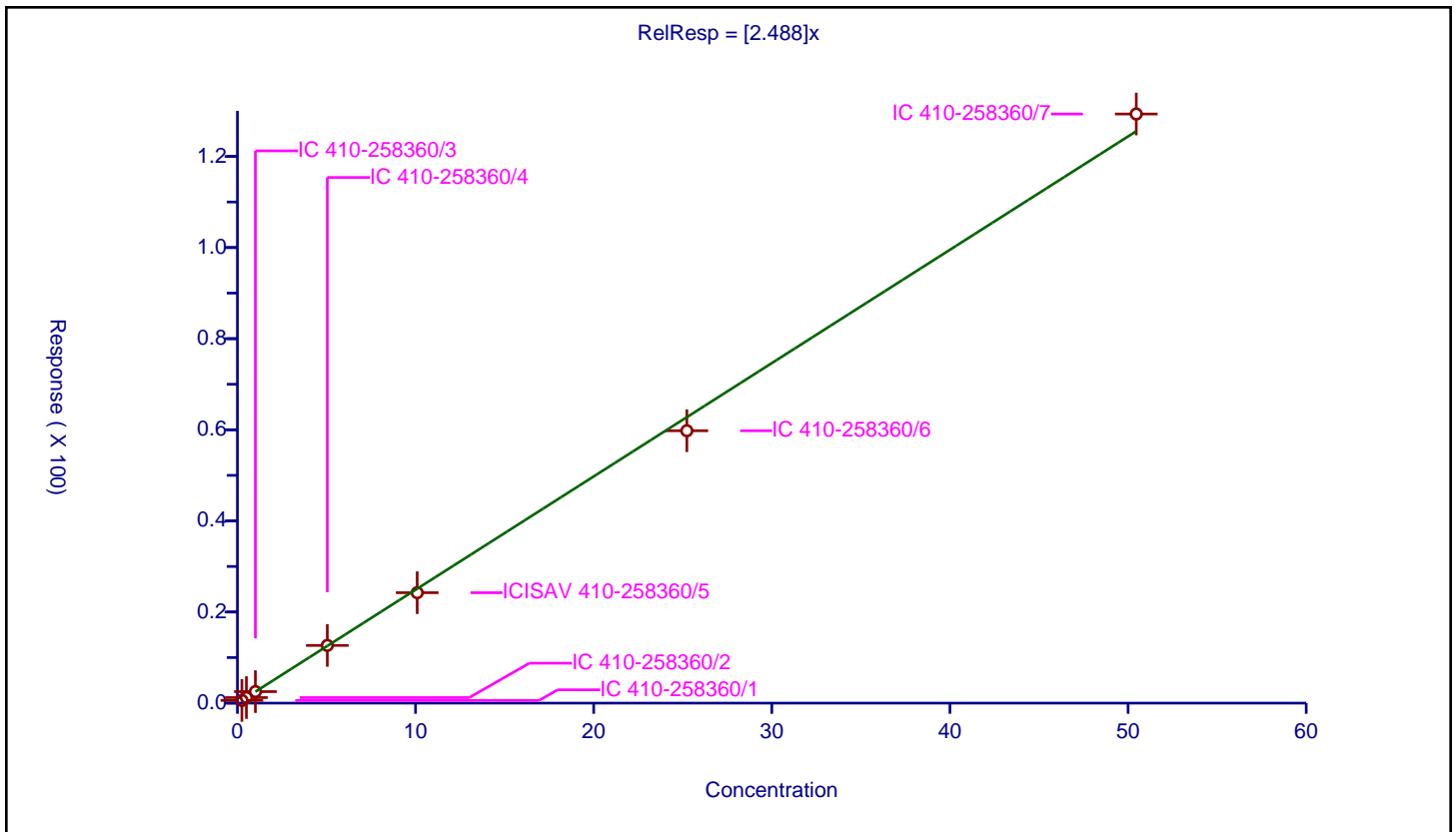
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.488

Error Coefficients	
Standard Error:	8940000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.252299	0.598856	5.0	802422.0	2.373599	Y
2	IC 410-258360/2	0.504597	1.216307	5.0	844396.0	2.410452	Y
3	IC 410-258360/3	1.009195	2.531029	5.0	698378.0	2.507969	Y
4	IC 410-258360/4	5.045973	12.66377	5.0	744490.0	2.509679	Y
5	ICISAV 410-258360/5	10.091946	24.239689	5.0	768626.0	2.401885	Y
6	IC 410-258360/6	25.229864	59.792934	5.0	812348.0	2.369927	Y
7	IC 410-258360/7	50.459728	129.317092	5.0	741462.0	2.562778	Y



Calibration

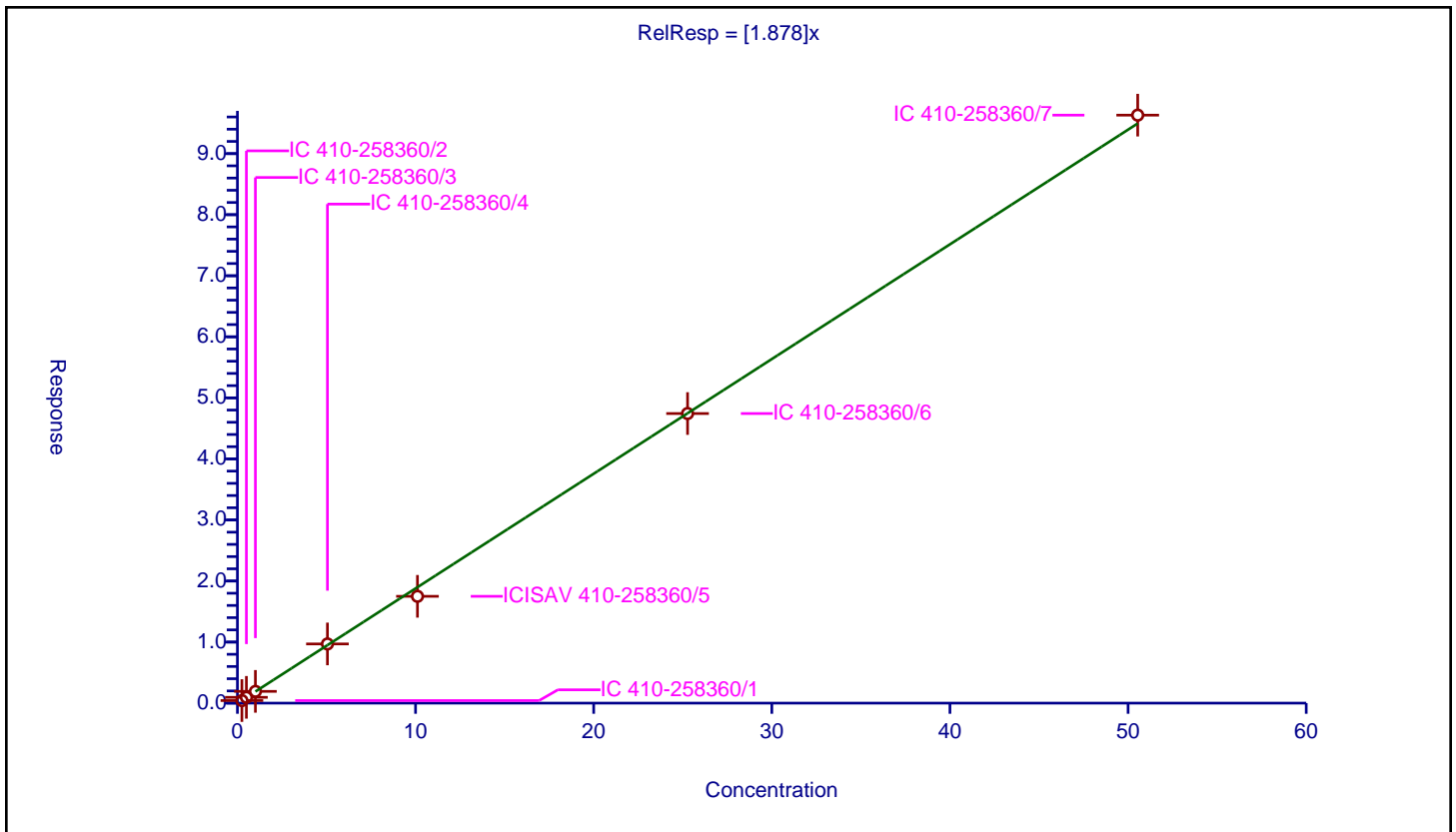
/ MFS_M3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.878

Error Coefficients	
Standard Error:	6740000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.252702	0.421094	5.0	802422.0	1.666365	Y
2	IC 410-258360/2	0.505404	0.949868	5.0	844396.0	1.879423	Y
3	IC 410-258360/3	1.010808	1.924517	5.0	698378.0	1.903938	Y
4	IC 410-258360/4	5.054042	9.693428	5.0	744490.0	1.917956	Y
5	ICISAV 410-258360/5	10.108084	17.49248	5.0	768626.0	1.730544	Y
6	IC 410-258360/6	25.270209	47.430621	5.0	812348.0	1.876938	Y
7	IC 410-258360/7	50.540418	96.302643	5.0	741462.0	1.905458	Y



Calibration

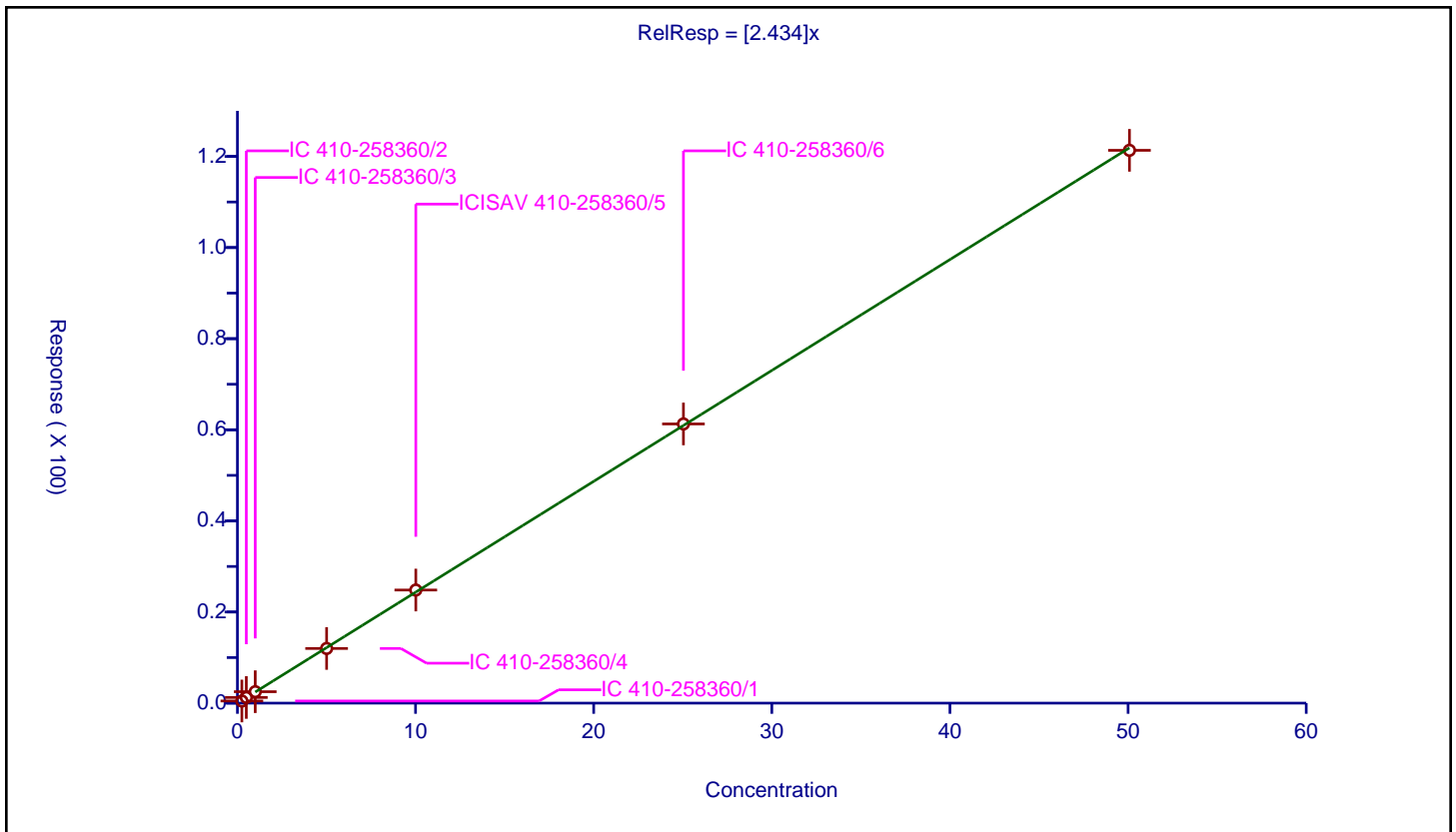
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.434

Error Coefficients	
Standard Error:	8570000
Relative Standard Error:	9.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.25038	0.473255	5.0	802422.0	1.890145	Y
2	IC 410-258360/2	0.50076	1.241076	5.0	844396.0	2.478385	Y
3	IC 410-258360/3	1.00152	2.513338	5.0	698378.0	2.509523	Y
4	IC 410-258360/4	5.007601	11.998348	5.0	744490.0	2.396027	Y
5	ICISAV 410-258360/5	10.015202	24.825813	5.0	768626.0	2.478813	Y
6	IC 410-258360/6	25.038006	61.280744	5.0	812348.0	2.447509	Y
7	IC 410-258360/7	50.076012	121.340588	5.0	741462.0	2.423128	Y



Calibration

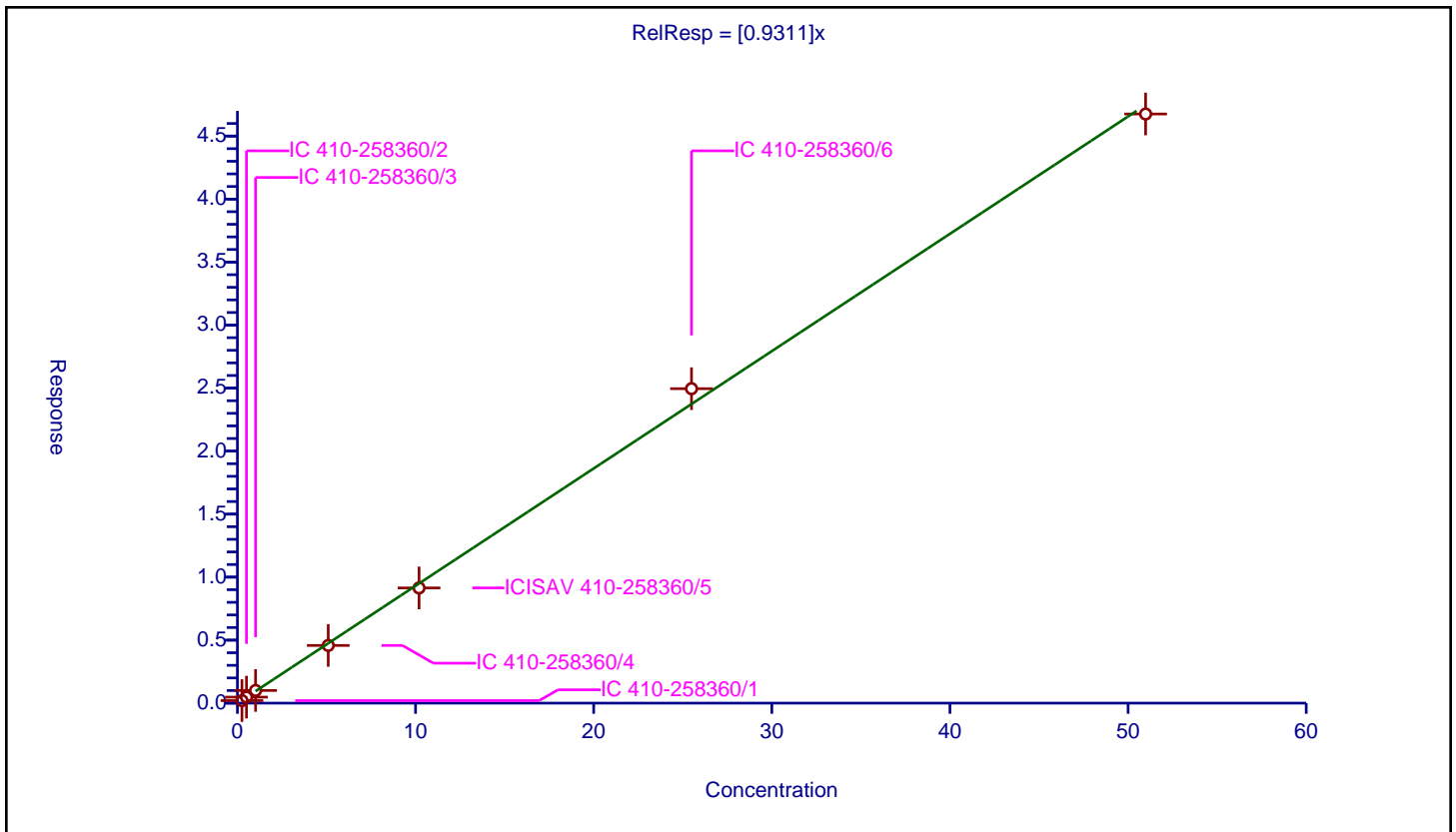
/ MFS_M4

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9311

Error Coefficients	
Standard Error:	3340000
Relative Standard Error:	7.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.254923	0.202281	5.0	802422.0	0.7935	Y
2	IC 410-258360/2	0.509846	0.476708	5.0	844396.0	0.935004	Y
3	IC 410-258360/3	1.019691	1.005351	5.0	698378.0	0.985937	Y
4	IC 410-258360/4	5.098457	4.57663	5.0	744490.0	0.89765	Y
5	ICISAV 410-258360/5	10.196913	9.141722	5.0	768626.0	0.896519	Y
6	IC 410-258360/6	25.492283	24.954478	5.0	812348.0	0.978903	Y
7	IC 410-258360/7	50.984566	46.752618	5.0	741462.0	0.916996	Y



Calibration

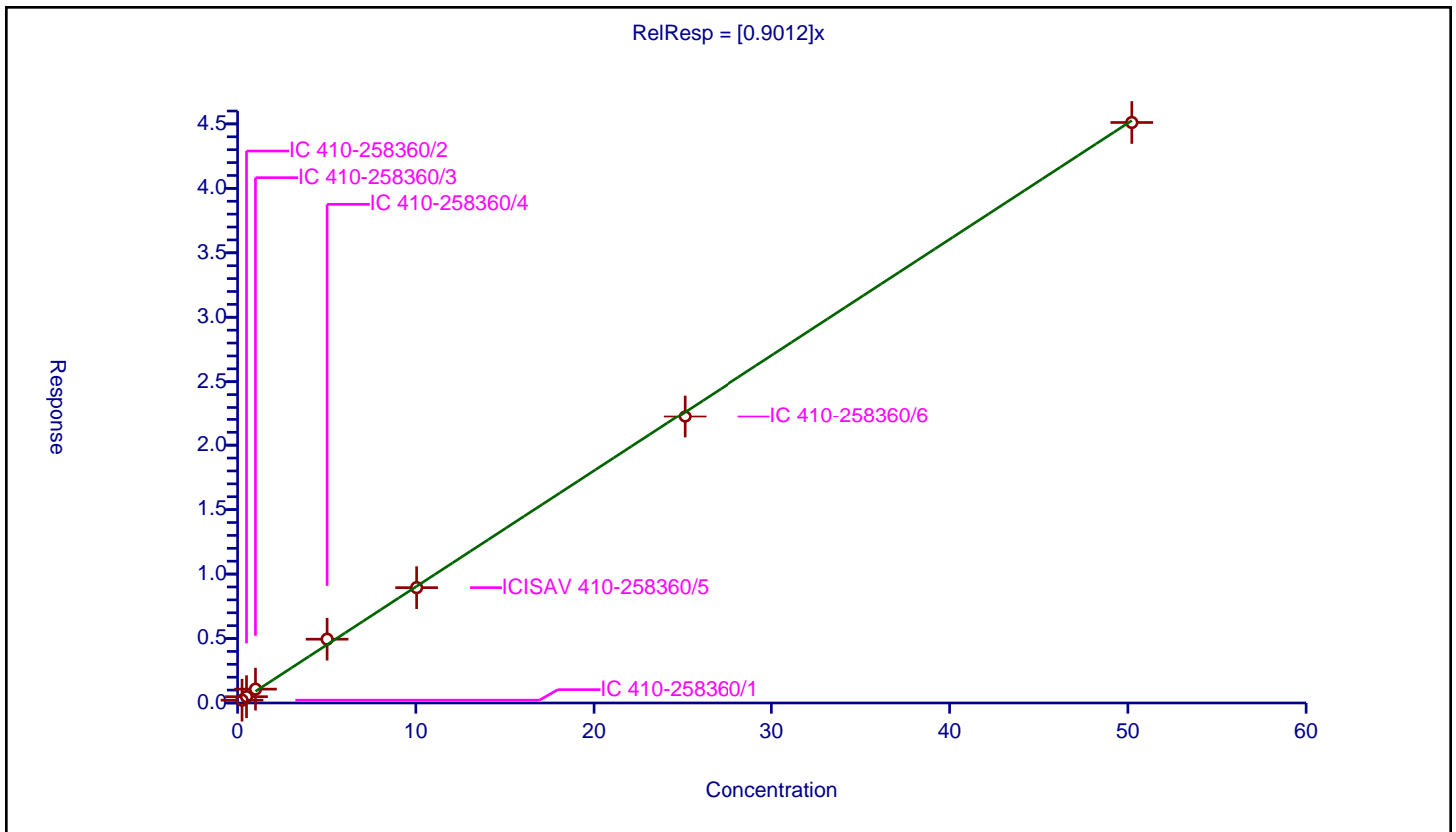
/ MFS_N4

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9012

Error Coefficients	
Standard Error:	3170000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.251111	0.217934	5.0	802422.0	0.86788	Y
2	IC 410-258360/2	0.502221	0.488509	5.0	844396.0	0.972696	Y
3	IC 410-258360/3	1.004443	1.075535	5.0	698378.0	1.070778	Y
4	IC 410-258360/4	5.022214	4.9483	5.0	744490.0	0.985283	Y
5	ICISAV 410-258360/5	10.044428	8.948637	5.0	768626.0	0.890906	Y
6	IC 410-258360/6	25.11107	22.261426	5.0	812348.0	0.886518	Y
7	IC 410-258360/7	50.222139	45.109561	5.0	741462.0	0.898201	Y



Calibration

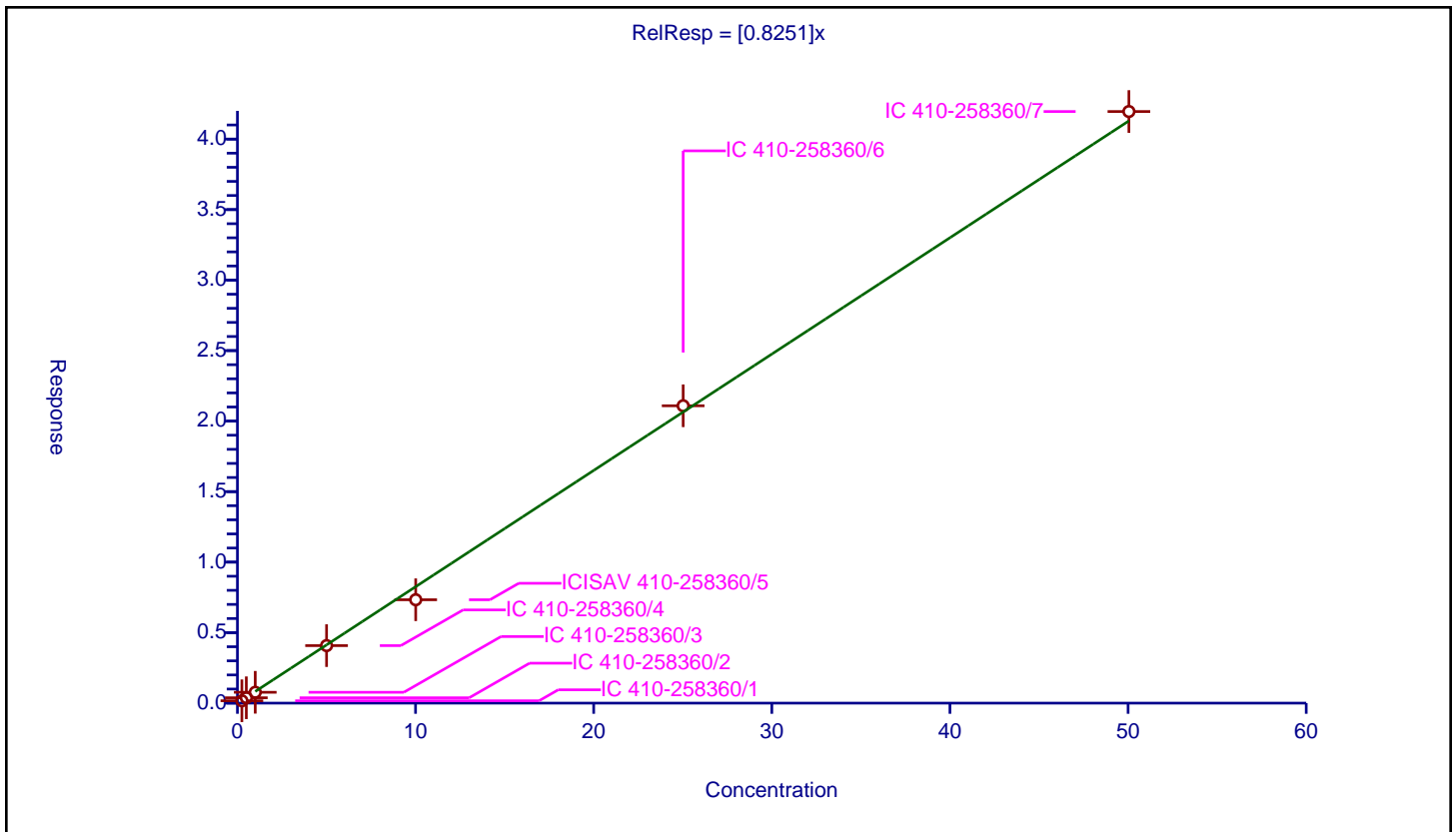
/ MFS_N5

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8251

Error Coefficients	
Standard Error:	2950000
Relative Standard Error:	10.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.250232	0.167219	5.0	802422.0	0.668255	Y
2	IC 410-258360/2	0.500464	0.381042	5.0	844396.0	0.761377	Y
3	IC 410-258360/3	1.000927	0.770192	5.0	698378.0	0.769478	Y
4	IC 410-258360/4	5.004636	4.079538	5.0	744490.0	0.815152	Y
5	ICISAV 410-258360/5	10.009272	7.331713	5.0	768626.0	0.732492	Y
6	IC 410-258360/6	25.02318	21.086726	5.0	812348.0	0.842688	Y
7	IC 410-258360/7	50.04636	41.955468	5.0	741462.0	0.838332	Y



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 260443

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2022 15:13 Calibration End Date: 05/31/2022 16:30 Calibration ID: 39146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260443/1	22MAY31MFS-01.d
Level 2	IC 410-260443/2	22MAY31MFS-02.d
Level 3	IC 410-260443/3	22MAY31MFS-03.d
Level 4	IC 410-260443/4	22MAY31MFS-04.d
Level 5	ICISAV 410-260443/5	22MAY31MFS-05.d
Level 6	IC 410-260443/6	22MAY31MFS-06.d
Level 7	IC 410-260443/7	22MAY31MFS-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	2.7335 2.7766	2.7388 2.5615	2.7592	2.8400	2.8663	LID1 F	2.672 1							0.9980		0.9900	
MFS_M3	1.9834 2.2129	2.1073 2.0218	2.1329	2.1722	2.2446	LID1 F	2.107 9							0.9980		0.9900	
MFS_N3	2.6312 2.9264	2.8229 2.6502	2.7916	2.9361	2.9569	LID1 F	2.776 9							0.9970		0.9900	
MFS_M4	1.0178 1.1664	1.1215 1.1084	1.0875	1.1362	1.1485	LID1 F	1.129 7							0.9990		0.9900	
MFS_N4	1.2393 1.0840	1.2784 1.0178	1.2320	1.2519	1.2004	Q2ID F	1.252 8	-0.005057						0.9990		0.9900	
MFS_N5	0.9930 1.1075	1.0721 0.9759	1.0117	1.1962	1.2237	Q2ID F	1.101 1	-0.001393						0.9900		0.9900	
13C3 HFPO-DA	0.2029 0.1894	0.2071 0.1942	0.1980	0.1982	0.1947	Ave	0.197 8				3.0						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 260443

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2022 15:13 Calibration End Date: 05/31/2022 16:30 Calibration ID: 39146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260443/1	22MAY31MFS-01.d
Level 2	IC 410-260443/2	22MAY31MFS-02.d
Level 3	IC 410-260443/3	22MAY31MFS-03.d
Level 4	IC 410-260443/4	22MAY31MFS-04.d
Level 5	ICISAV 410-260443/5	22MAY31MFS-05.d
Level 6	IC 410-260443/6	22MAY31MFS-06.d
Level 7	IC 410-260443/7	22MAY31MFS-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		LID1	148323	465936	657188	3488080	6620320	0.252	0.505	1.01	5.05	10.1
		F	18074839	32344615				25.2	50.5			
MFS_M3		LID1	107793	359078	508836	2672144	5192653	0.253	0.505	1.01	5.05	10.1
		F	14427948	25571095				25.3	50.5			
MFS_N3		LID1	141685	476591	659850	3578709	6777789	0.250	0.501	1.00	5.01	10.0
		F	18904845	33210187				25.0	50.1			
MFS_M4		LID1	55803	192783	261711	1409975	2680295	0.255	0.510	1.02	5.10	10.2
		F	7671759	14141092				25.5	51.0			
MFS_N4		Q2ID	66929	216465	292068	1530356	2759659	0.251	0.502	1.00	5.02	10.0
		F	7023071	12791301				25.1	50.2			
MFS_N5		Q2ID	53438	180892	238992	1457101	2803299	0.250	0.500	1.00	5.00	10.0
		F	7150200	12221802				25.0	50.0			
13C3 HFPO-DA	13PF OA	Ave	1075346	1685727	1180062	1217006	1144344	5.00	5.00	5.00	5.00	5.00
			1290069	1251226				5.00	5.00			

Curve Type Legend

Ave = Average ISTD
 LID1F = Linear 1/Conc IsoDil FZ
 Q2IDF = Quadratic 1/conc^2 IsoDil FZ

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83412-1 Analy Batch No.: 260443

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2022 15:13 Calibration End Date: 05/31/2022 16:30 Calibration ID: 39146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260443/1	22MAY31MFS-01.d
Level 2	IC 410-260443/2	22MAY31MFS-02.d
Level 3	IC 410-260443/3	22MAY31MFS-03.d
Level 4	IC 410-260443/4	22MAY31MFS-04.d
Level 5	ICISAV 410-260443/5	22MAY31MFS-05.d
Level 6	IC 410-260443/6	22MAY31MFS-06.d
Level 7	IC 410-260443/7	22MAY31MFS-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	2.3 -4.1	2.5	3.3	6.3	7.3	3.9	50 30	30	30	30	30	30
MFS_M3	-5.9 -4.1	0.0	1.2	3.0	6.5	5.0	50 30	30	30	30	30	30
MFS_N3	-5.2 -4.6	1.7	0.5	5.7	6.5	5.4	50 30	30	30	30	30	30
MFS_M4	-9.9 -1.9	-0.7	-3.7	0.6	1.7	3.3	50 30	30	30	30	30	30
MFS_N4	-1.0 2.6	2.3	-1.3	2.0	-0.1	-4.2	50 30	30	30	30	30	30
MFS_N5	-9.8 -5.7	-2.6	-8.0	9.4	12.7	4.0	50 30	30	30	30	30	30
13C3 HFPO-DA	2.6						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-May-2022 15:13:37 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:28 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:03

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.476	4.472	0.004	0.880	1075346	5.13	103	2088
* 2 13C2 PFOA	415.00 > 370.00	5.085	5.075	0.010		5298630	5.00		3071
3 MFS_N2	461.00 > 367.00	5.316	5.308	0.008	1.188	148323	0.2581	102	658
4 MFS_M3	577.00 > 483.00	5.899	5.892	0.007	1.318	107793	0.2378	94.1	109
5 MFS_N3	627.00 > 533.00	6.100	6.090	0.010	1.363	141685	0.2372	94.8	298
6 MFS_M4	743.00 > 649.00	6.486	6.479	0.007	1.449	55803	0.2297	90.1	396
7 MFS_N4	793.00 > 699.00	6.618	6.613	0.005	1.479	66929	0.2486	99.0	391
8 MFS_N5	959.00 > 865.00	6.993	6.988	0.005	1.562	53438	0.2257	90.2	462

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-01.d

Injection Date: 31-May-2022 15:13:37

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

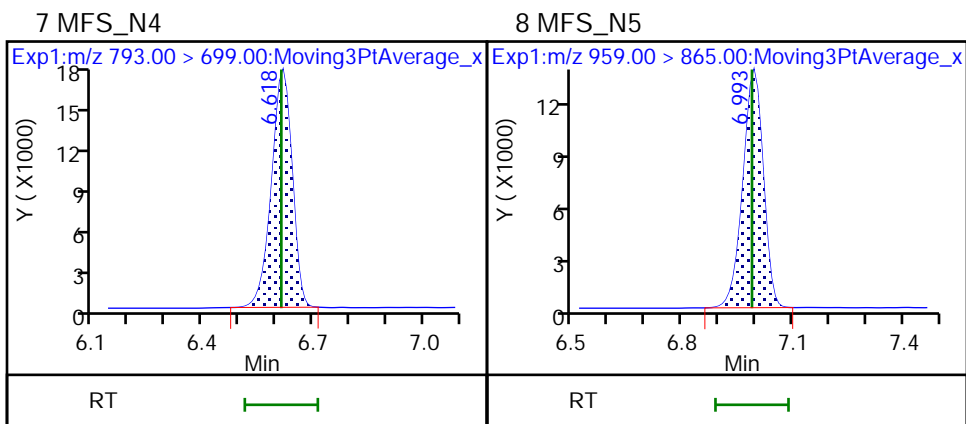
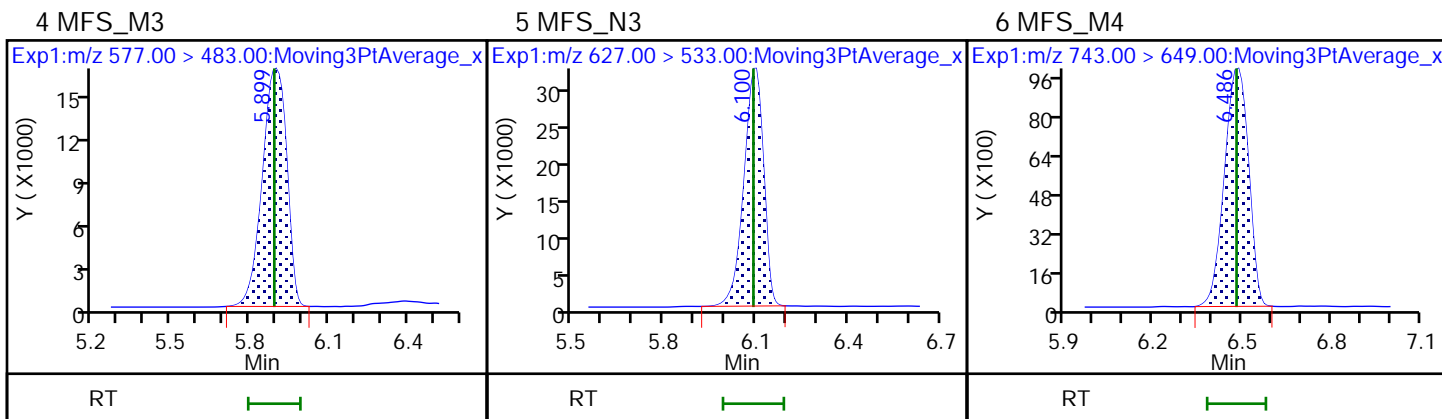
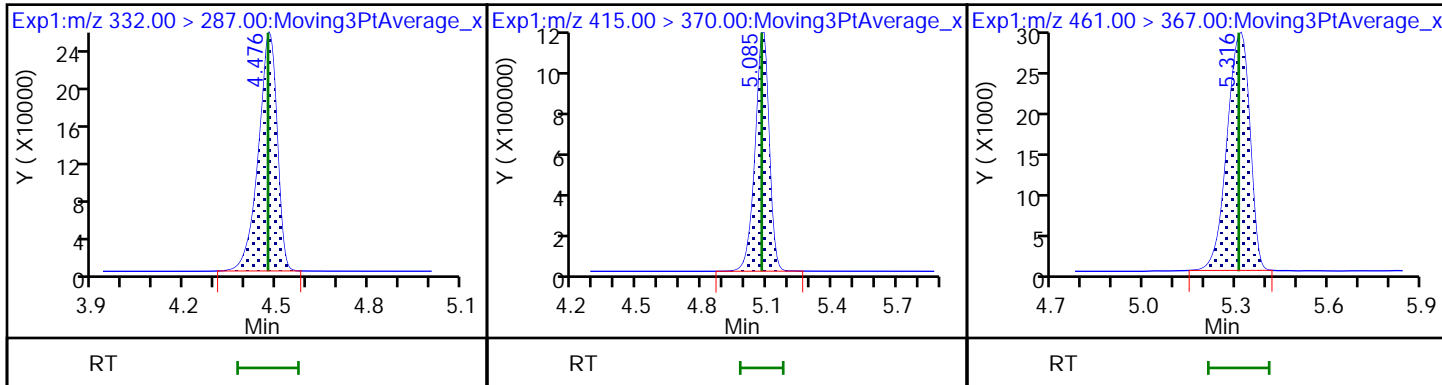
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-May-2022 15:27:38 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:28 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.881	1685727	5.24	105	2381
* 2 13C2 PFOA	415.00 > 370.00	5.077	5.075	0.002		8138060	5.00		3741
3 MFS_N2	461.00 > 367.00	5.310	5.308	0.002	1.187	465936	0.5172	102	1690
4 MFS_M3	577.00 > 483.00	5.899	5.892	0.007	1.319	359078	0.5053	100.0	298
5 MFS_N3	627.00 > 533.00	6.091	6.090	0.001	1.362	476591	0.5091	102	729
6 MFS_M4	743.00 > 649.00	6.483	6.479	0.004	1.449	192783	0.5062	99.3	989
7 MFS_N4	793.00 > 699.00	6.615	6.613	0.002	1.479	216465	0.5135	102	807
8 MFS_N5	959.00 > 865.00	6.989	6.988	0.001	1.563	180892	0.4876	97.4	1370

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-02.d

Injection Date: 31-May-2022 15:27:38

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

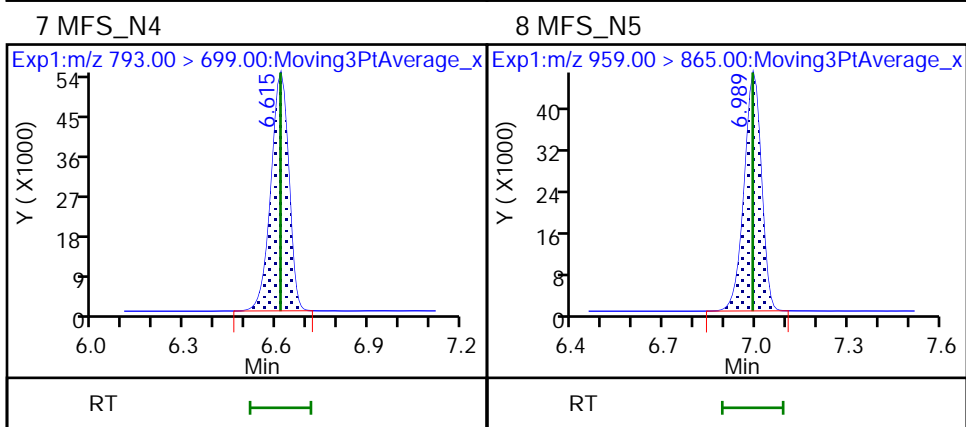
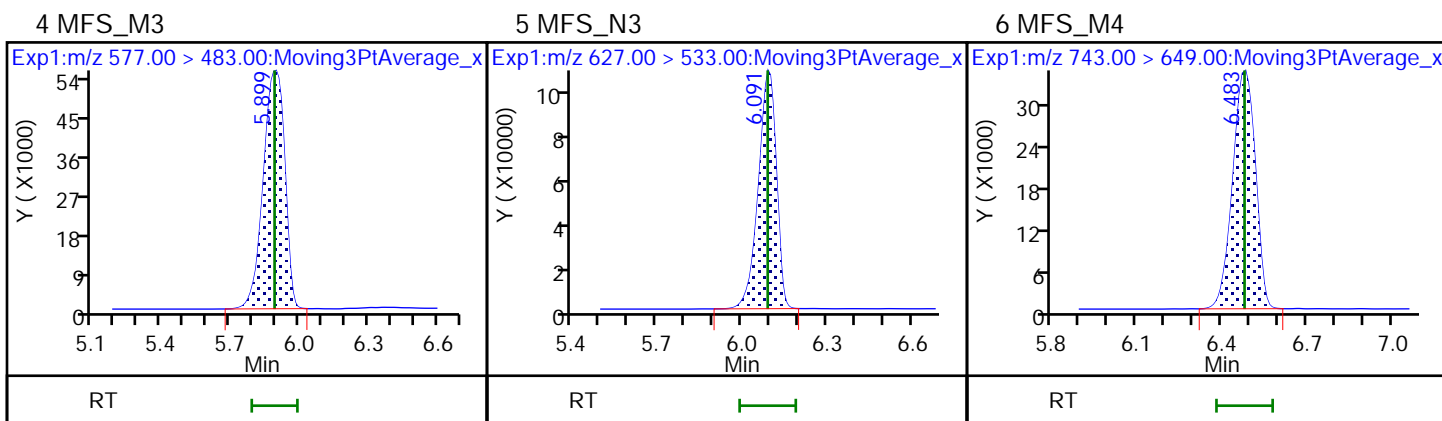
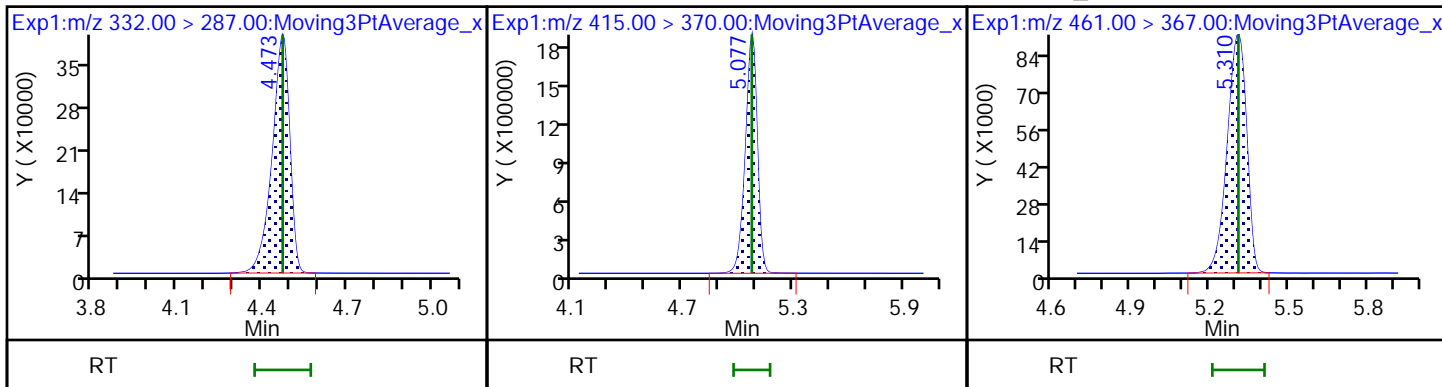
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 31-May-2022 15:40:12 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:29 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.881	1180062	5.01	100	2203
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.075	0.003		5960092	5.00		3332
3 MFS_N2	461.00 > 367.00	5.308	5.308	0.0	1.187	657188	1.04	103	2298
4 MFS_M3	577.00 > 483.00	5.896	5.892	0.004	1.318	508836	1.02	101	400
5 MFS_N3	627.00 > 533.00	6.088	6.090	-0.002	1.361	659850	1.01	101	913
6 MFS_M4	743.00 > 649.00	6.481	6.479	0.002	1.449	261711	0.9816	96.3	1207
7 MFS_N4	793.00 > 699.00	6.613	6.613	0.0	1.479	292068	0.99	98.7	1120
8 MFS_N5	959.00 > 865.00	6.986	6.988	-0.002	1.562	238992	0.9207	92.0	1770

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-03.d

Injection Date: 31-May-2022 15:40:12

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

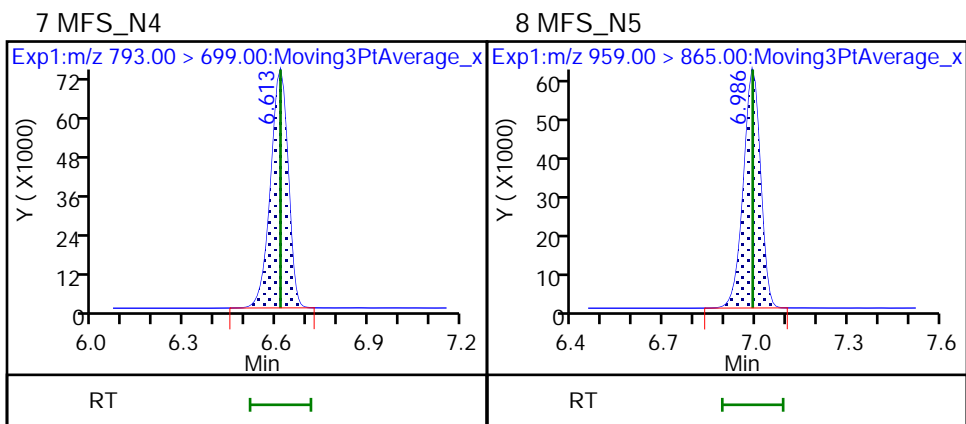
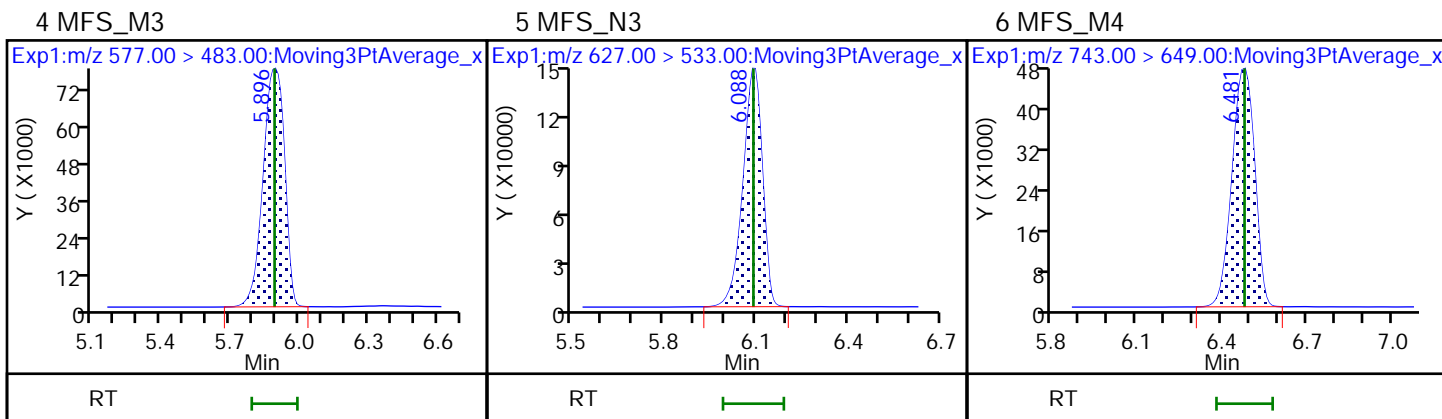
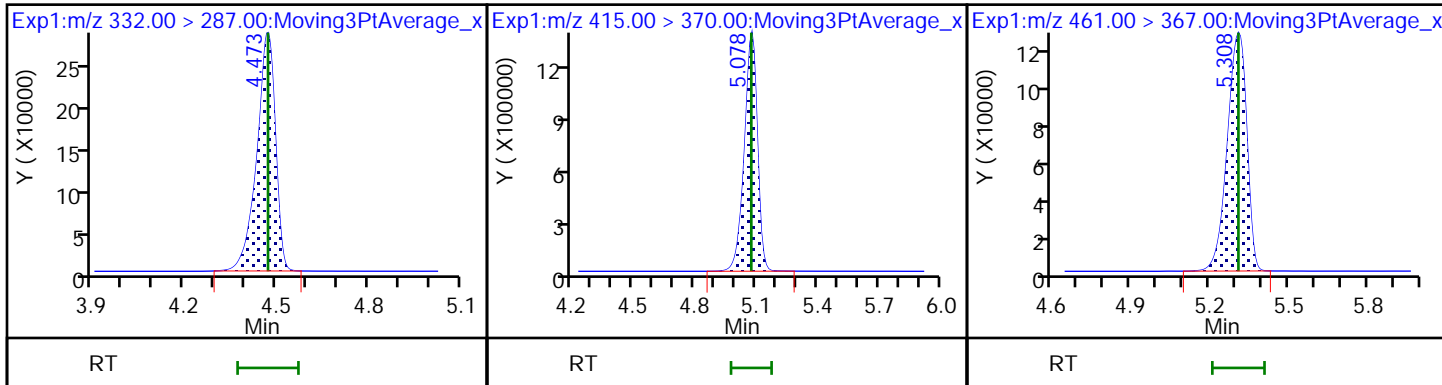
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 31-May-2022 15:52:49 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:30 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:20

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.467	4.472	-0.005	0.881	1217006	5.01	100	2191
* 2 13C2 PFOA	415.00 > 370.00	5.068	5.075	-0.007		6141398	5.00		3679
3 MFS_N2	461.00 > 367.00	5.304	5.308	-0.004	1.187	3488080	5.36	106	8390
4 MFS_M3	577.00 > 483.00	5.890	5.892	-0.002	1.319	2672144	5.21	103	1251
5 MFS_N3	627.00 > 533.00	6.085	6.090	-0.005	1.362	3578709	5.29	106	3060
6 MFS_M4	743.00 > 649.00	6.476	6.479	-0.003	1.450	1409975	5.13	101	2696
7 MFS_N4	793.00 > 699.00	6.610	6.613	-0.003	1.480	1530356	5.12	102	2715
8 MFS_N5	959.00 > 865.00	6.985	6.988	-0.003	1.564	1457101	5.47	109	4874

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-04.d

Injection Date: 31-May-2022 15:52:49

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

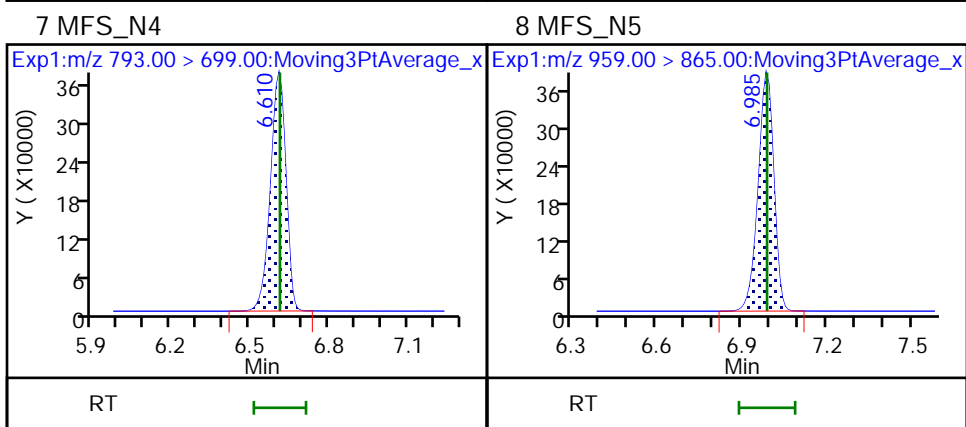
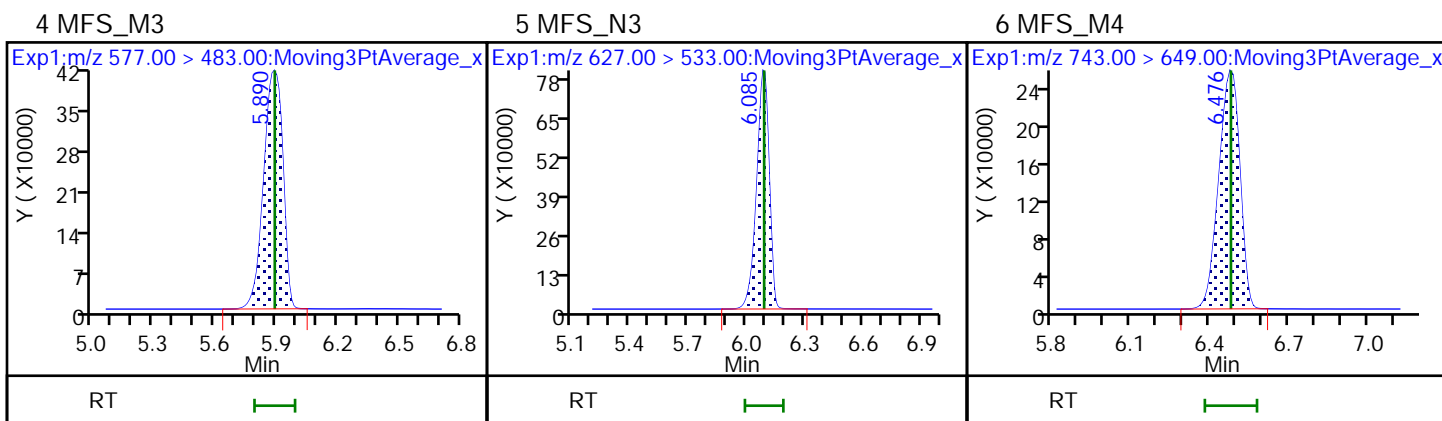
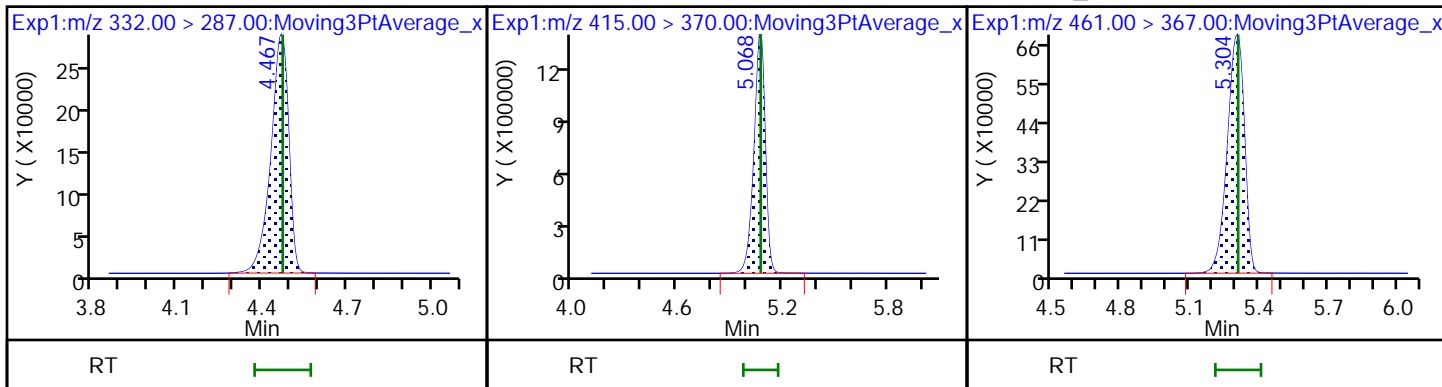
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 31-May-2022 16:05:26 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:30 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:33:54

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.472	0.0	0.882	1144344	4.92	98.4	2102
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.075	-0.006		5878779	5.00		3244
3 MFS_N2	461.00 > 367.00	5.308	5.308	0.0	1.187	6620320	10.8	107	12157
4 MFS_M3	577.00 > 483.00	5.886	5.892	-0.006	1.316	5192653	10.8	106	1801
5 MFS_N3	627.00 > 533.00	6.088	6.090	-0.002	1.361	6777789	10.7	106	3949
6 MFS_M4	743.00 > 649.00	6.471	6.479	-0.008	1.447	2680295	10.4	102	3562
7 MFS_N4	793.00 > 699.00	6.615	6.613	0.002	1.479	2759659	10.0	99.9	3540
8 MFS_N5	959.00 > 865.00	6.990	6.988	0.002	1.563	2803299	11.3	113	5933

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-05.d

Injection Date: 31-May-2022 16:05:26

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

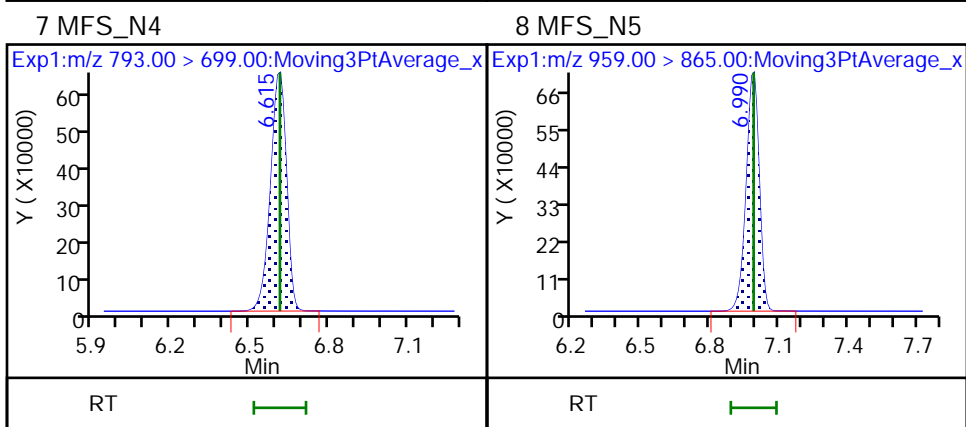
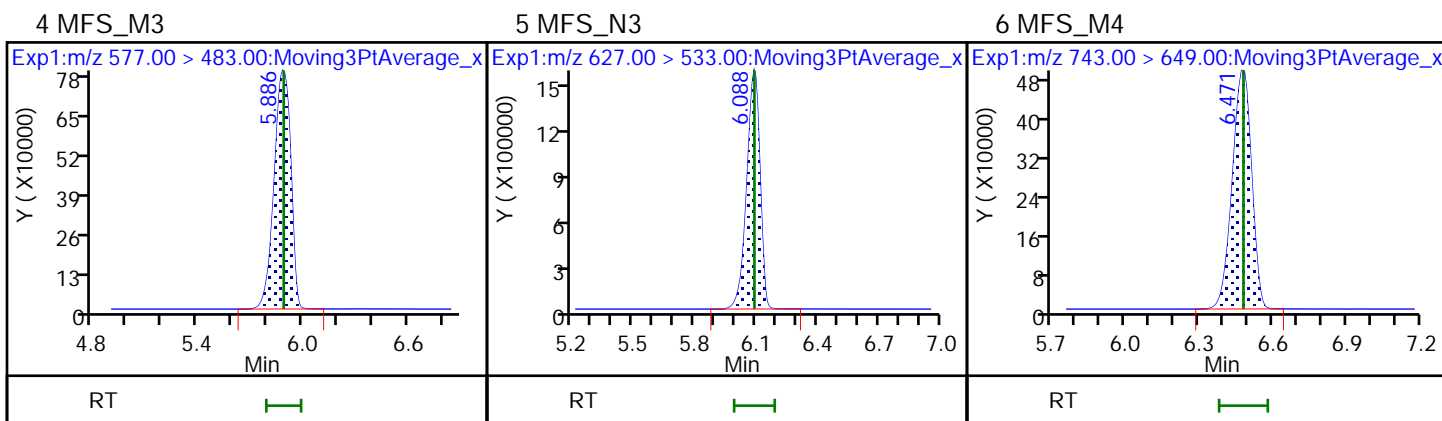
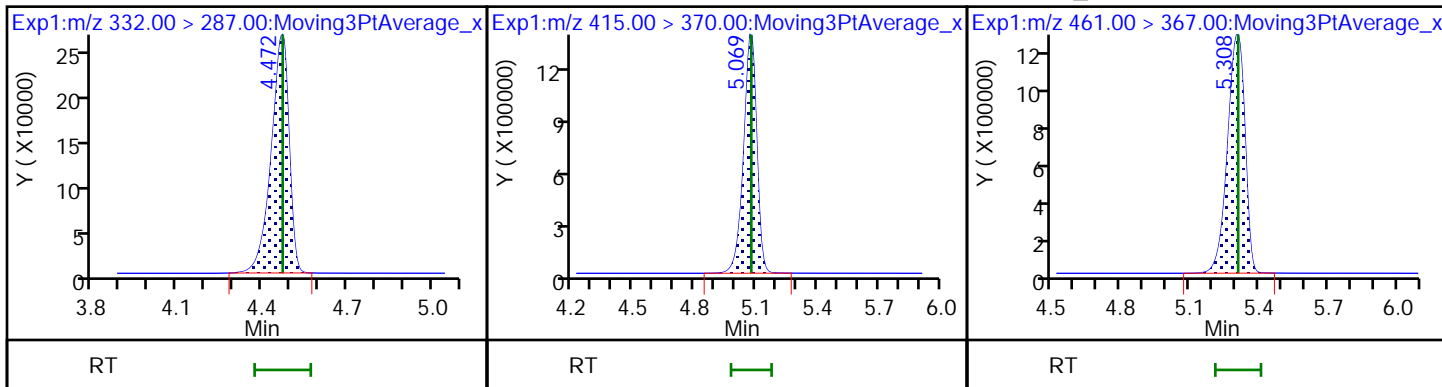
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 31-May-2022 16:18:04 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:31 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.881	1290069	4.79	95.8	2058
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.075	0.004		6811775	5.00		3384
3 MFS_N2	461.00 > 367.00	5.308	5.308	0.0	1.187	18074839	26.2	104	18101
4 MFS_M3	577.00 > 483.00	5.888	5.892	-0.004	1.316	14427948	26.5	105	2821
5 MFS_N3	627.00 > 533.00	6.091	6.090	0.001	1.362	18904845	26.4	105	4861
6 MFS_M4	743.00 > 649.00	6.485	6.479	0.006	1.450	7671759	26.3	103	4054
7 MFS_N4	793.00 > 699.00	6.618	6.613	0.005	1.479	7023071	24.1	95.8	4036
8 MFS_N5	959.00 > 865.00	6.992	6.988	0.004	1.563	7150200	26.0	104	6007

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-06.d

Injection Date: 31-May-2022 16:18:04

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

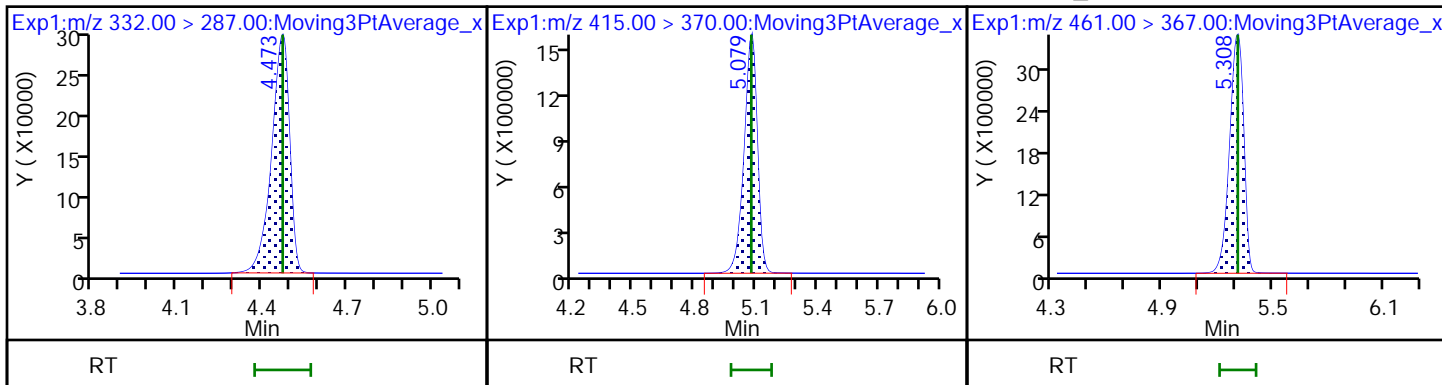
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

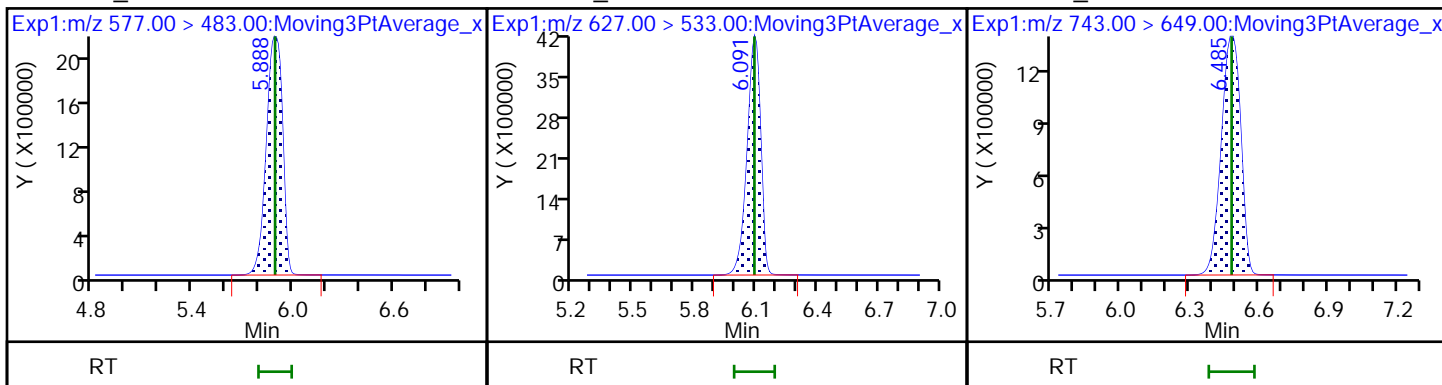
3 MFS_N2



4 MFS_M3

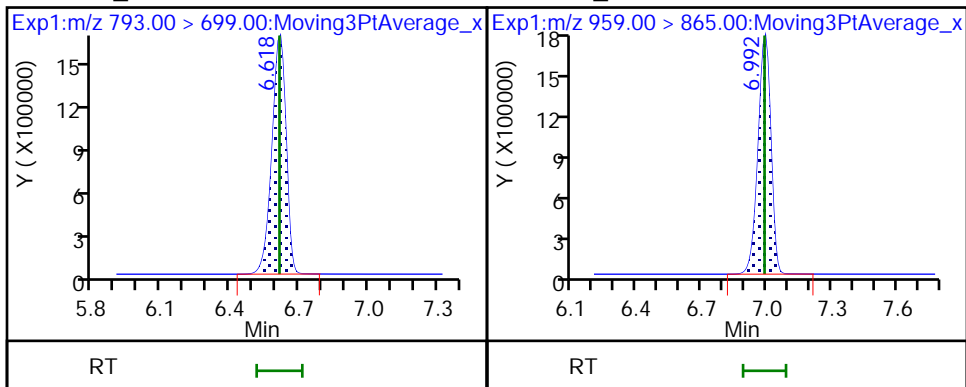
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 31-May-2022 16:30:38 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:31 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:31

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.882	1251226	4.91	98.2	2180
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.075	-0.006		6442839	5.00		3905
3 MFS_N2	461.00 > 367.00	5.301	5.308	-0.007	1.185	32344615	48.4	95.9	18946
4 MFS_M3	577.00 > 483.00	5.886	5.892	-0.006	1.316	25571095	48.5	95.9	3068
5 MFS_N3	627.00 > 533.00	6.088	6.090	-0.002	1.361	33210187	47.8	95.4	7171
6 MFS_M4	743.00 > 649.00	6.471	6.479	-0.008	1.447	14141092	50.0	98.1	5217
7 MFS_N4	793.00 > 699.00	6.605	6.613	-0.008	1.477	12791301	51.5	103	5460
8 MFS_N5	959.00 > 865.00	6.979	6.988	-0.009	1.560	12221802	47.2	94.3	5663

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Injection Date: 31-May-2022 16:30:38

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

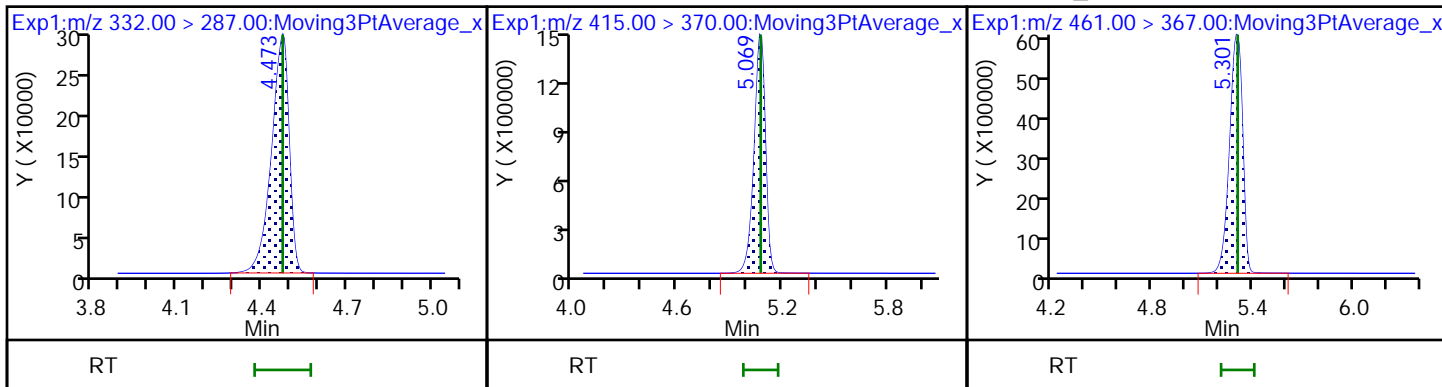
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

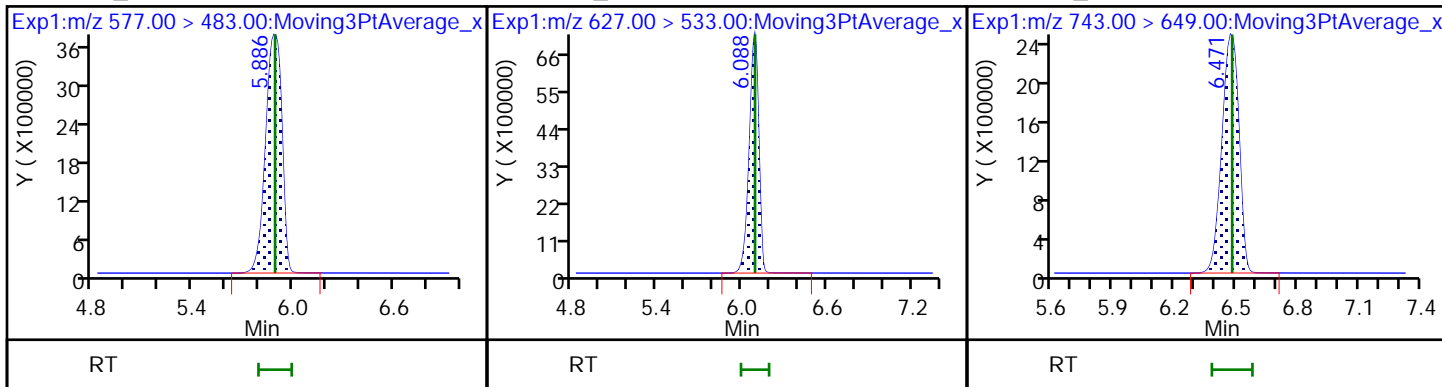
3 MFS_N2



4 MFS_M3

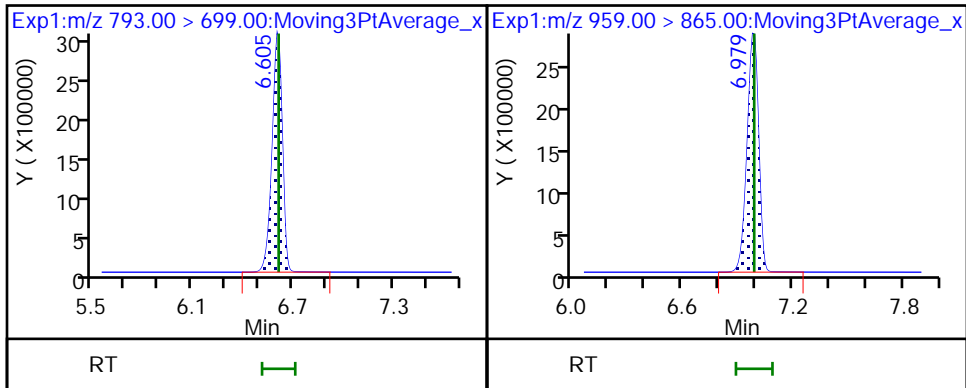
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Calibration

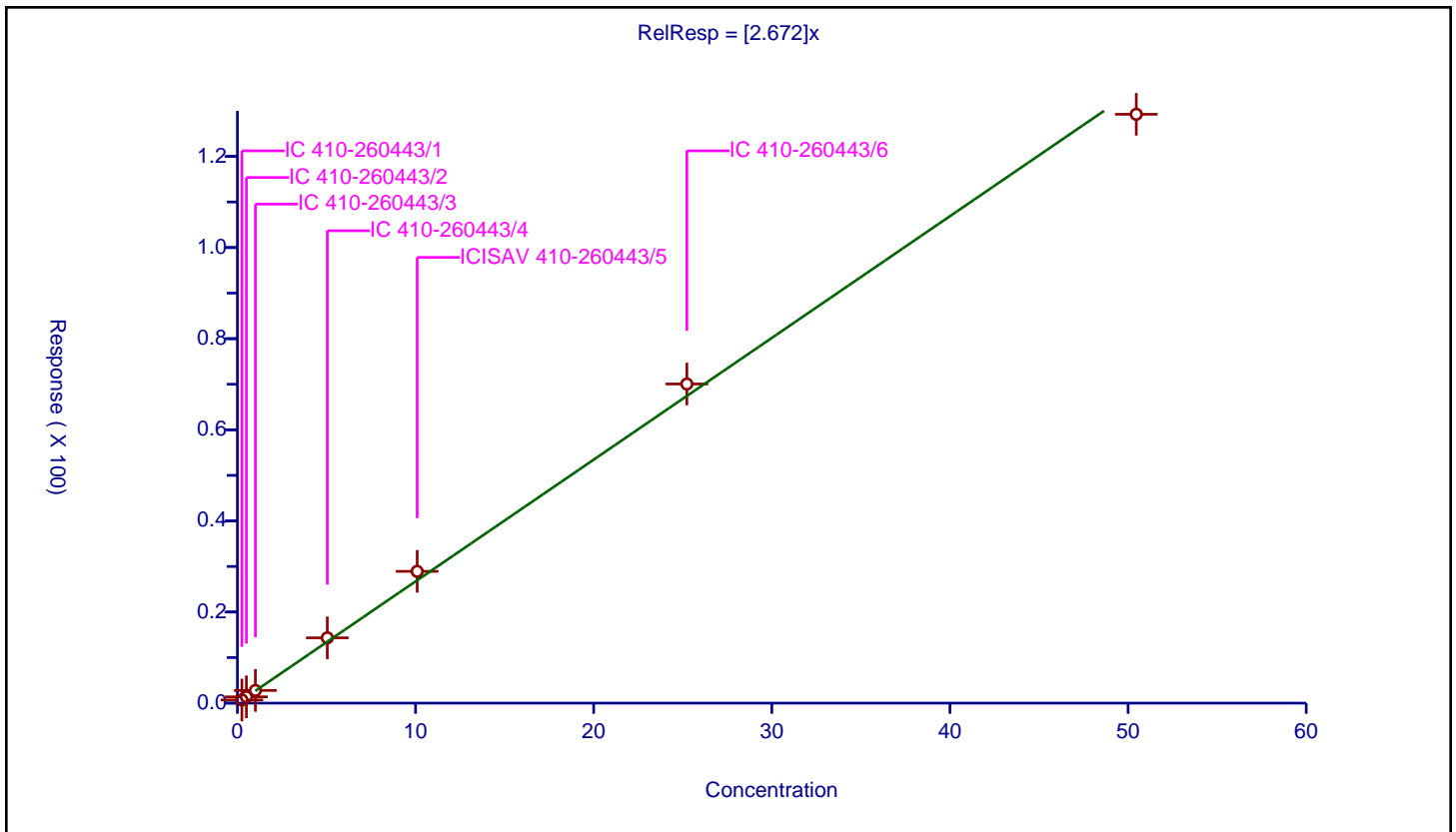
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.672

Error Coefficients	
Standard Error:	15400000
Relative Standard Error:	4.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.252299	0.689652	5.0	1075346.0	2.733477	Y
2	IC 410-260443/2	0.504597	1.382003	5.0	1685727.0	2.738824	Y
3	IC 410-260443/3	1.009195	2.784549	5.0	1180062.0	2.759179	Y
4	IC 410-260443/4	5.045973	14.330578	5.0	1217006.0	2.840003	Y
5	ICISAV 410-260443/5	10.091946	28.926267	5.0	1144344.0	2.866273	Y
6	IC 410-260443/6	25.229864	70.053768	5.0	1290069.0	2.776621	Y
7	IC 410-260443/7	50.459728	129.25169	5.0	1251226.0	2.561482	Y



Calibration

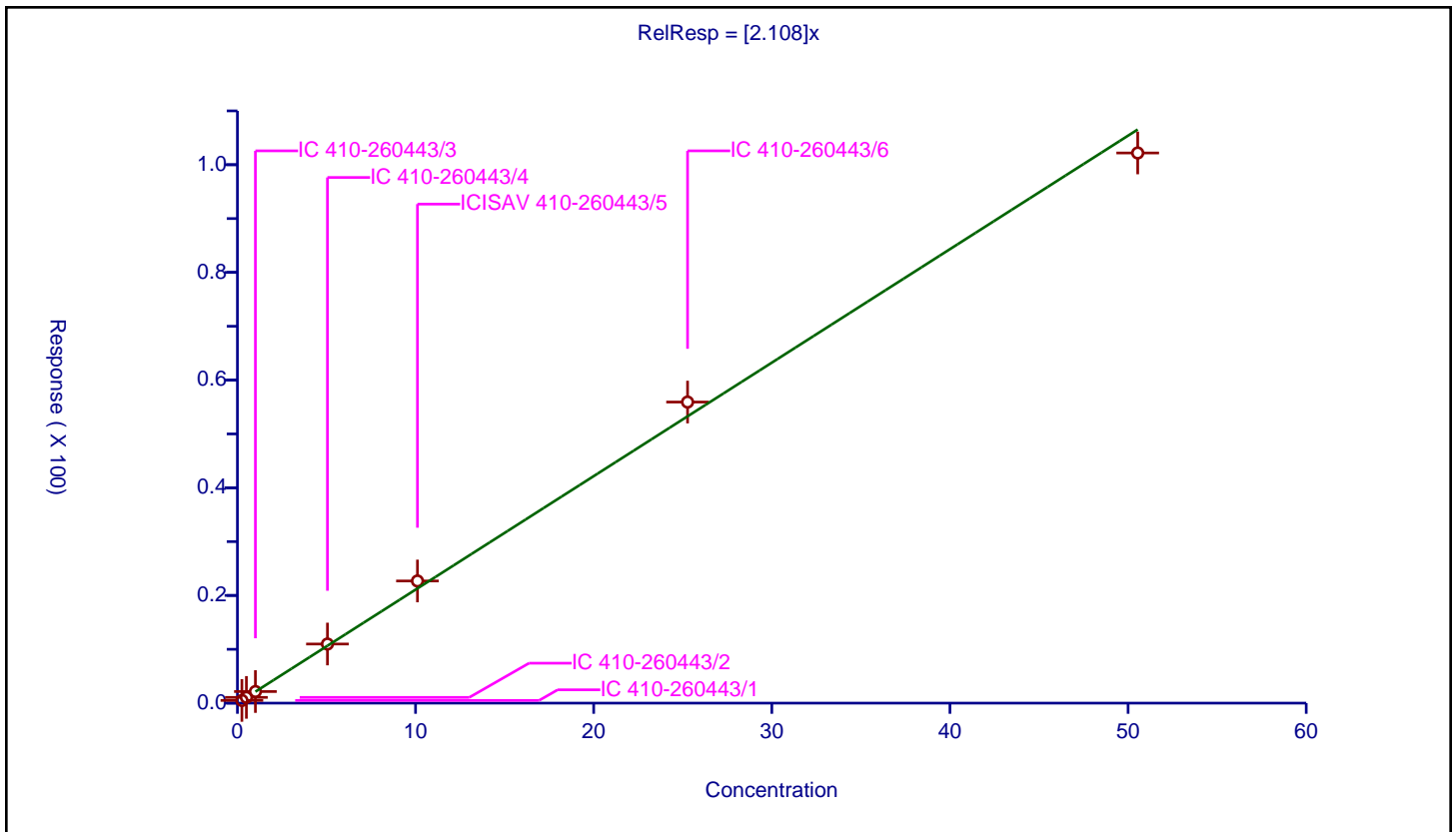
/ MFS_M3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.108

Error Coefficients	
Standard Error:	12200000
Relative Standard Error:	4.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.252702	0.501201	5.0	1075346.0	1.983369	Y
2	IC 410-260443/2	0.505404	1.065054	5.0	1685727.0	2.107331	Y
3	IC 410-260443/3	1.010808	2.155971	5.0	1180062.0	2.132918	Y
4	IC 410-260443/4	5.054042	10.978352	5.0	1217006.0	2.172193	Y
5	ICISAV 410-260443/5	10.108084	22.688339	5.0	1144344.0	2.244574	Y
6	IC 410-260443/6	25.270209	55.919288	5.0	1290069.0	2.212854	Y
7	IC 410-260443/7	50.540418	102.184158	5.0	1251226.0	2.02183	Y



Calibration

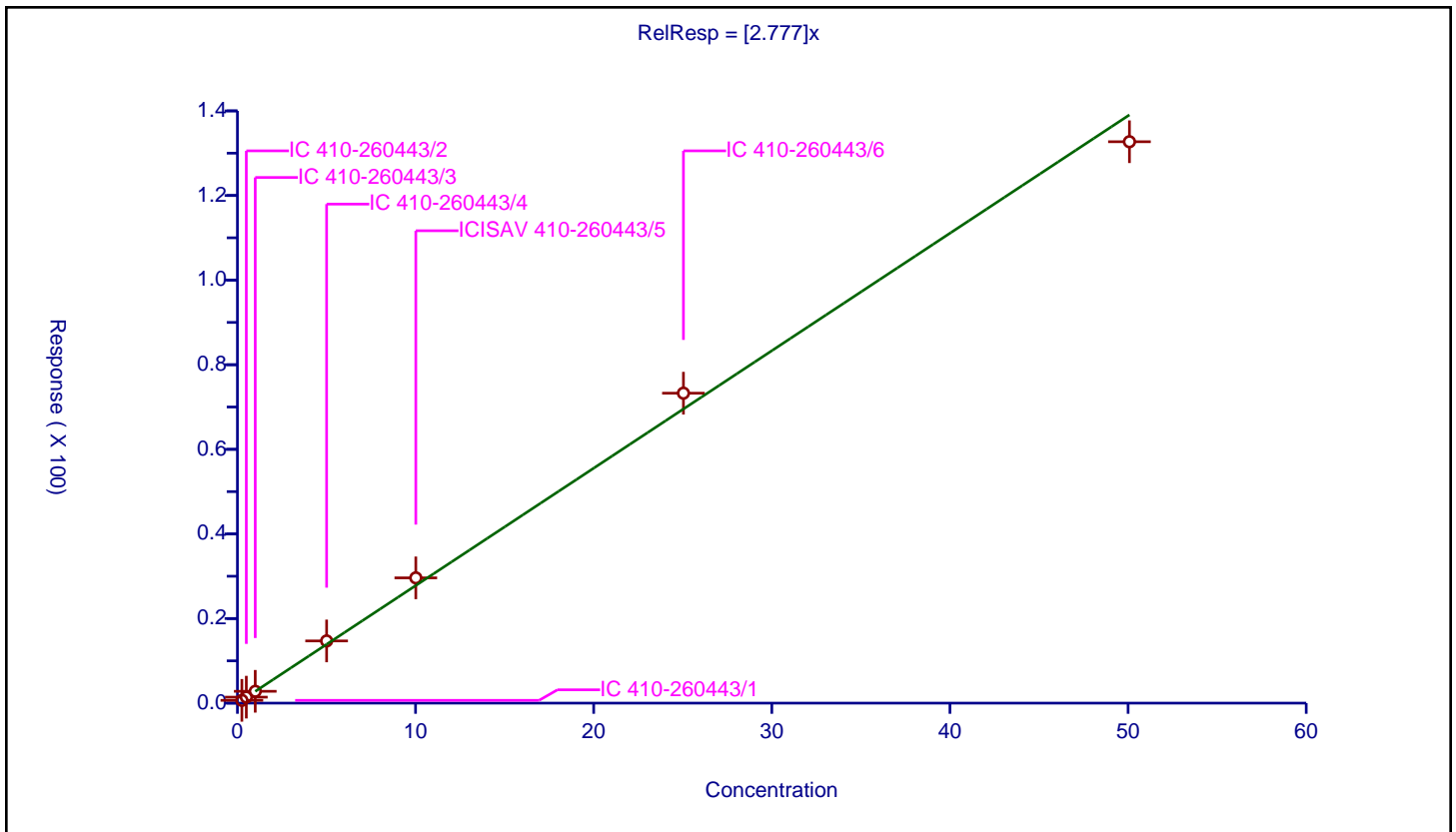
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.777

Error Coefficients	
Standard Error:	15900000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.25038	0.658788	5.0	1075346.0	2.631152	Y
2	IC 410-260443/2	0.50076	1.413607	5.0	1685727.0	2.822922	Y
3	IC 410-260443/3	1.00152	2.795828	5.0	1180062.0	2.791584	Y
4	IC 410-260443/4	5.007601	14.702923	5.0	1217006.0	2.936121	Y
5	ICISAV 410-260443/5	10.015202	29.614299	5.0	1144344.0	2.956935	Y
6	IC 410-260443/6	25.038006	73.270674	5.0	1290069.0	2.926378	Y
7	IC 410-260443/7	50.076012	132.710585	5.0	1251226.0	2.650183	Y



Calibration

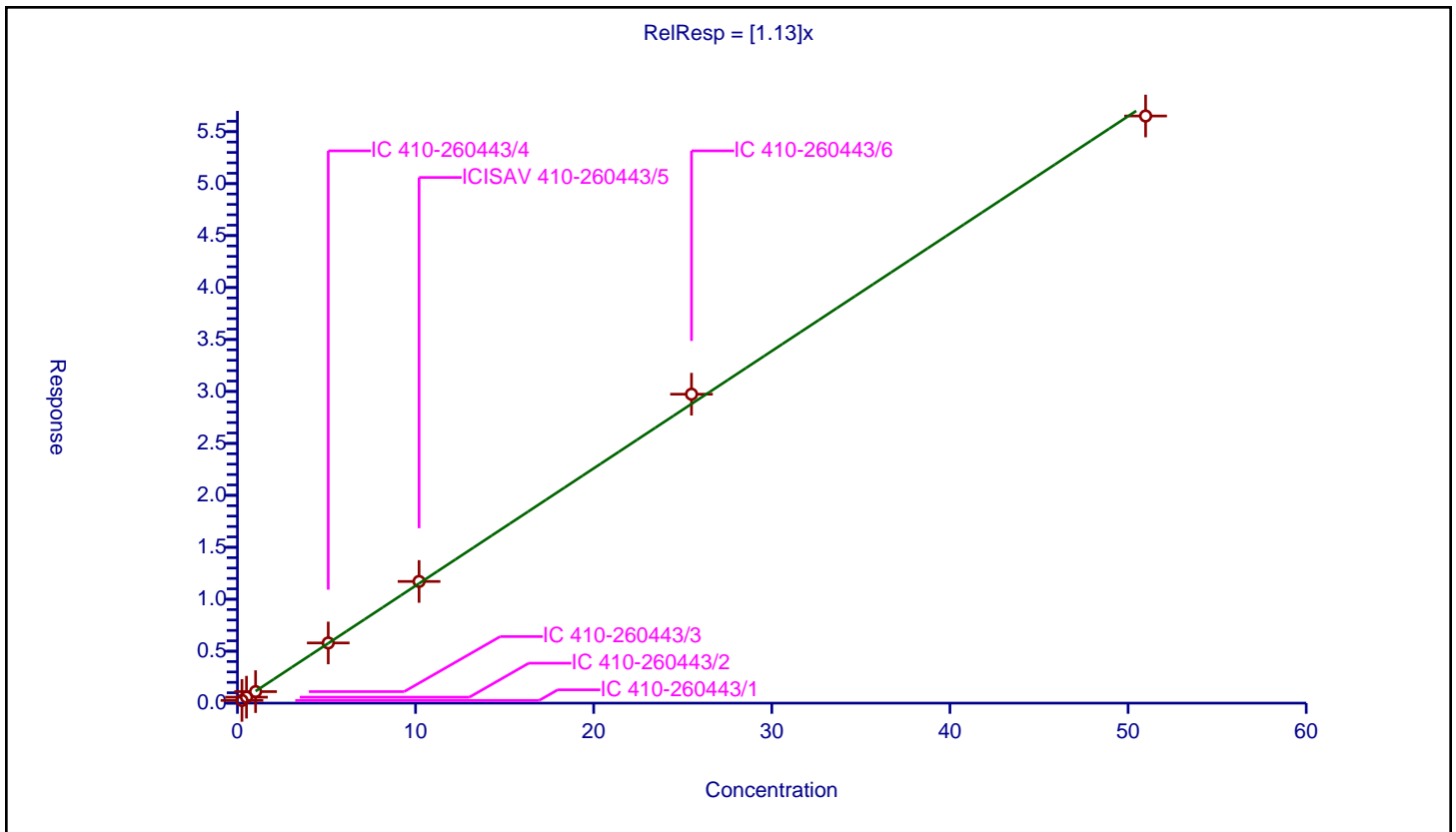
/ MFS_M4

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.13

Error Coefficients	
Standard Error:	6680000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.254923	0.259465	5.0	1075346.0	1.017819	Y
2	IC 410-260443/2	0.509846	0.57181	5.0	1685727.0	1.121535	Y
3	IC 410-260443/3	1.019691	1.108887	5.0	1180062.0	1.087473	Y
4	IC 410-260443/4	5.098457	5.792802	5.0	1217006.0	1.136187	Y
5	ICISAV 410-260443/5	10.196913	11.711055	5.0	1144344.0	1.14849	Y
6	IC 410-260443/6	25.492283	29.73391	5.0	1290069.0	1.166389	Y
7	IC 410-260443/7	50.984566	56.508944	5.0	1251226.0	1.108354	Y



Calibration

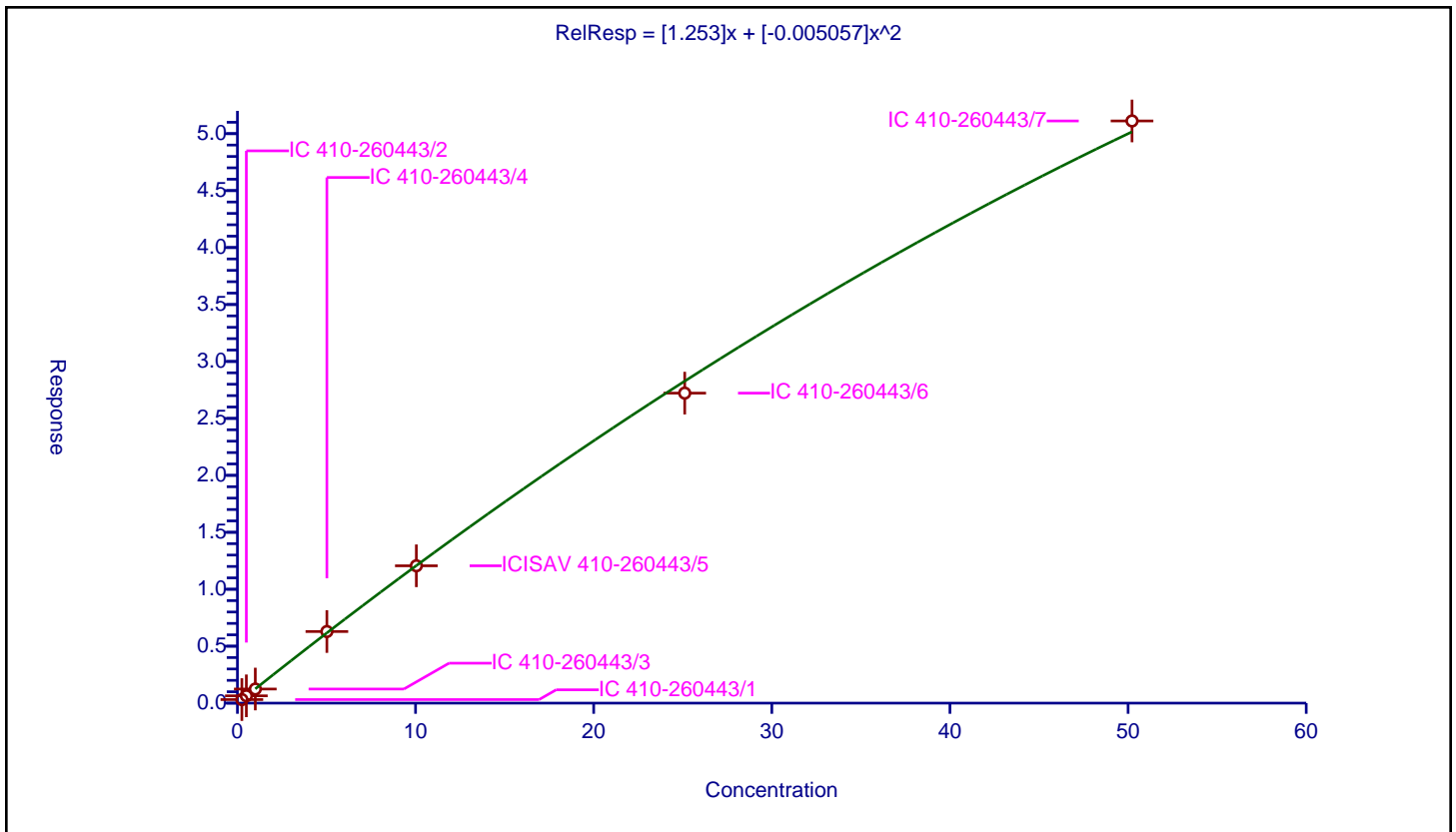
/ MFS_N4

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.253
Second Order:	-0.005057

Error Coefficients	
Standard Error:	6680000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.251111	0.311198	5.0	1075346.0	1.239284	Y
2	IC 410-260443/2	0.502221	0.642052	5.0	1685727.0	1.278425	Y
3	IC 410-260443/3	1.004443	1.237511	5.0	1180062.0	1.232038	Y
4	IC 410-260443/4	5.022214	6.287381	5.0	1217006.0	1.251914	Y
5	ICISAV 410-260443/5	10.044428	12.057821	5.0	1144344.0	1.200449	Y
6	IC 410-260443/6	25.11107	27.219749	5.0	1290069.0	1.083974	Y
7	IC 410-260443/7	50.222139	51.11507	5.0	1251226.0	1.01778	Y



Calibration

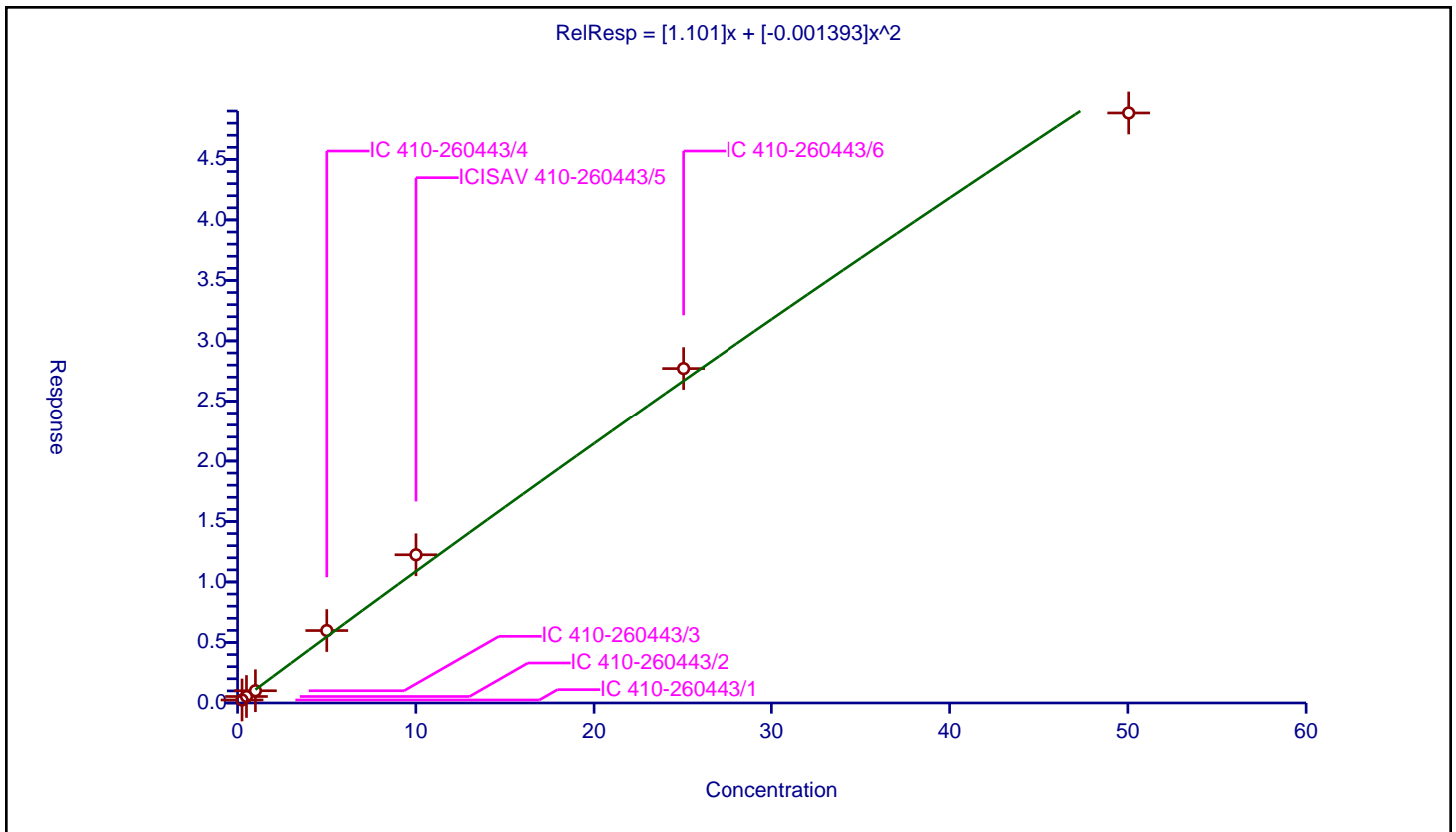
/ MFS_N5

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.101
Second Order:	-0.001393

Error Coefficients	
Standard Error:	6490000
Relative Standard Error:	9.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.250232	0.248469	5.0	1075346.0	0.992955	Y
2	IC 410-260443/2	0.500464	0.53654	5.0	1685727.0	1.072086	Y
3	IC 410-260443/3	1.000927	1.012625	5.0	1180062.0	1.011687	Y
4	IC 410-260443/4	5.004636	5.986417	5.0	1217006.0	1.196174	Y
5	ICISAV 410-260443/5	10.009272	12.248498	5.0	1144344.0	1.223715	Y
6	IC 410-260443/6	25.02318	27.712471	5.0	1290069.0	1.107472	Y
7	IC 410-260443/7	50.04636	48.839306	5.0	1251226.0	0.975881	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: ICV 410-258360/9 Calibration Date: 05/24/2022 09:06
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.470		1.00	1.01	-0.7	30.0
MFS_M3	LID1F		1.877		1.01	1.01	-0.1	30.0
MFS_N3	LID1F		2.378		0.979	1.00	-2.3	30.0
MFS_M4	LID1F		0.9596		1.05	1.02	3.1	30.0
MFS_N4	LID1F		1.050		1.10	1.00	9.5	30.0
MFS_N5	LID1F		0.7744		1.04	1.00	3.5	30.0
13C3 HFPO-DA	Ave	0.2262	0.2307		5.10	5.00	2.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-09.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 24-May-2022 09:06:26 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 09:39:43 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:24

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.470	4.468	0.002	0.881	687764	5.10	102	2378
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		2981765	5.00		3354
3 MFS_N2	461.00 > 367.00	5.303	5.301	0.002	1.186	342845	1.00		287
4 MFS_M3	577.00 > 483.00	5.890	5.888	0.002	1.318	260913	1.01		214
5 MFS_N3	627.00 > 533.00	6.093	6.091	0.002	1.363	327657	0.9786		258
6 MFS_M4	743.00 > 649.00	6.476	6.483	-0.007	1.449	134601	1.05		675
7 MFS_N4	793.00 > 699.00	6.611	6.616	-0.005	1.479	145107	1.10		700
8 MFS_N5	959.00 > 865.00	6.995	6.990	0.005	1.565	106618	1.04		862

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-09.d

Injection Date: 24-May-2022 09:06:26

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

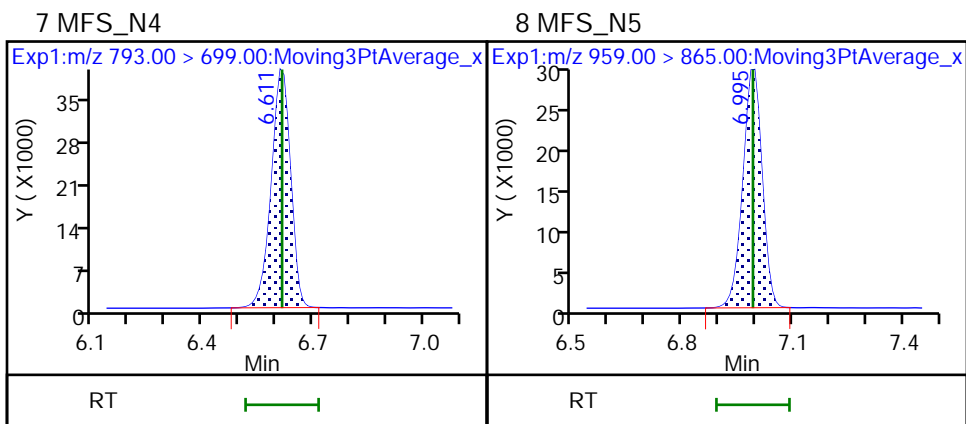
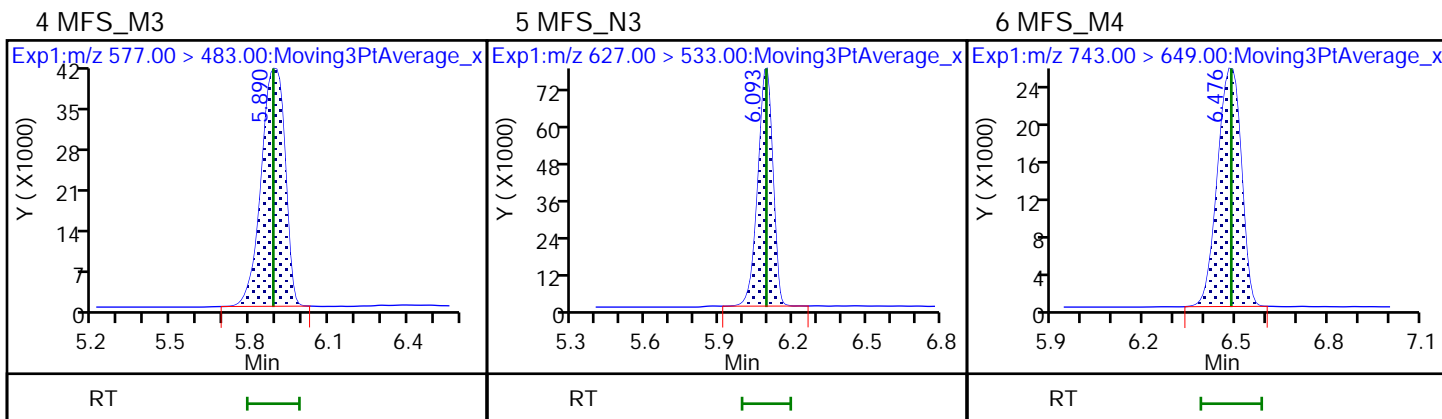
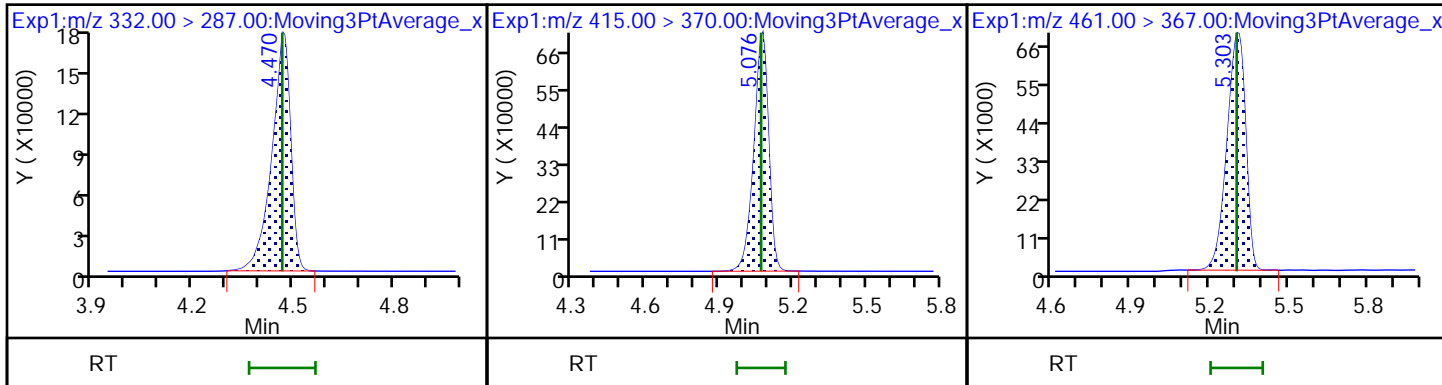
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-258462/1 Calibration Date: 05/24/2022 09:56
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.590		0.525	0.505	4.1	30.0
MFS_M3	LID1F		1.957		0.527	0.505	4.2	30.0
MFS_N3	LID1F		2.597		0.534	0.501	6.7	30.0
MFS_M4	LID1F		0.8106		0.444	0.510	-12.9	30.0
MFS_N4	LID1F		1.052		0.586	0.502	16.8	30.0
MFS_N5	LID1F		0.8174		0.496	0.500	-0.9	30.0
13C3 HFPO-DA	Ave	0.2262	0.2158		4.77	5.00	-4.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-13.d
 Lims ID: CCV 1_CAL2
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-May-2022 09:56:55 ALS Bottle#: 3 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 1_CAL2
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:46 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 12:00:07

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.468	0.005	0.882	781272	4.77	95.4	2618
* 2 13C2 PFOA	415.00 > 370.00	5.070	5.069	0.001		3621049	5.00		4649
3 MFS_N2	461.00 > 367.00	5.302	5.301	0.001	1.185	204193	0.5253	104	210
4 MFS_M3	577.00 > 483.00	5.900	5.888	0.012	1.319	154556	0.5266	104	148
5 MFS_N3	627.00 > 533.00	6.092	6.091	0.001	1.362	203200	0.5342	107	185
6 MFS_M4	743.00 > 649.00	6.486	6.483	0.003	1.450	64575	0.4439	87.1	457
7 MFS_N4	793.00 > 699.00	6.609	6.616	-0.007	1.477	82583	0.5865	117	490
8 MFS_N5	959.00 > 865.00	6.984	6.990	-0.006	1.561	63922	0.4958	99.1	773

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-13.d

Injection Date: 24-May-2022 09:56:55

Instrument ID: 30733

Lims ID: CCV 1_CAL2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

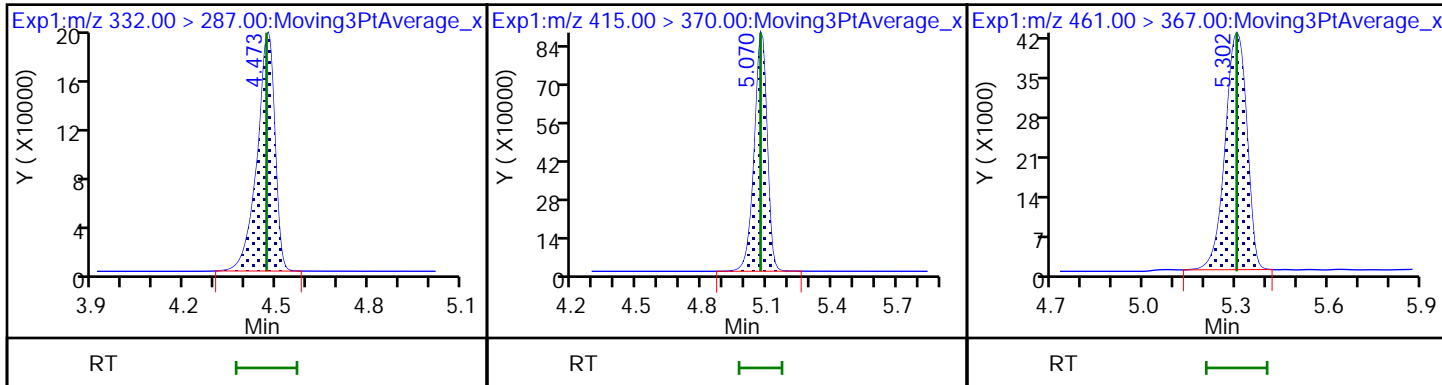
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

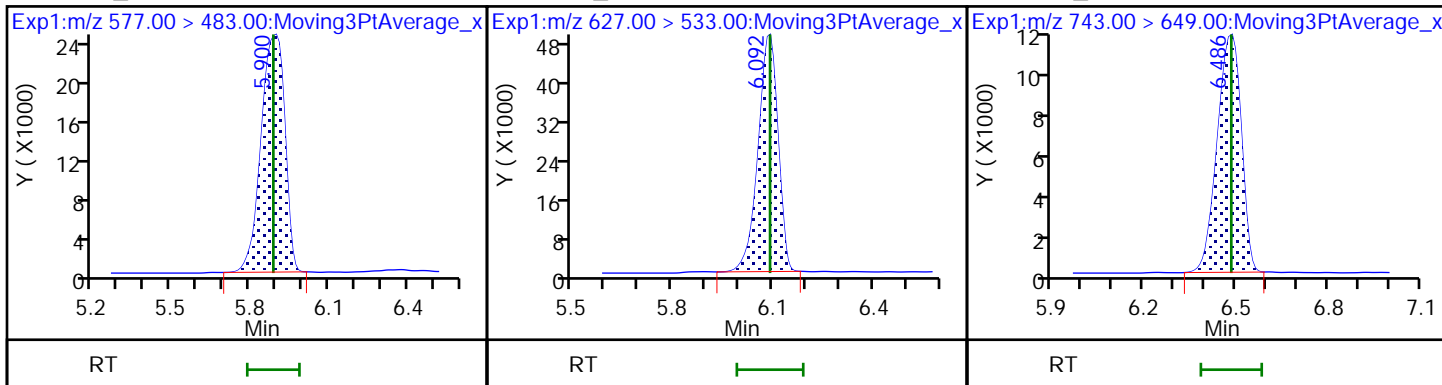
3 MFS_N2



4 MFS_M3

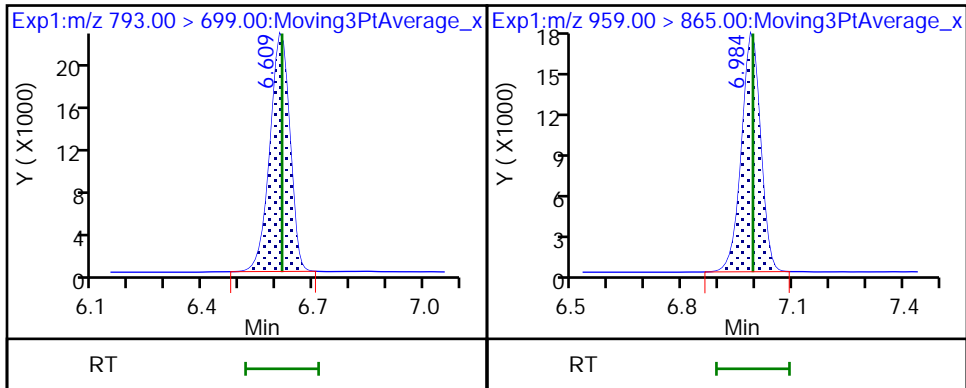
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-258462/14 Calibration Date: 05/24/2022 12:43
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.829		1.15	1.01	13.7	30.0
MFS_M3	LID1F		2.093		1.13	1.01	11.4	30.0
MFS_N3	LID1F		2.951		1.21	1.00	21.2	30.0
MFS_M4	LID1F		1.048		1.15	1.02	12.6	30.0
MFS_N4	LID1F		1.315		1.47	1.00	45.9*	30.0
MFS_N5	LID1F		1.022		1.24	1.00	23.9	30.0
13C3 HFPO-DA	Ave	0.2262	0.2014		4.45	5.00	-11.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-26.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-May-2022 12:43:08 ALS Bottle#: 4 Worklist Smp#: 14
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 14:04:42

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.469	4.468	0.001	0.880	545763	4.45	89.0	2267
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		2710247	5.00		4314
3 MFS_N2	461.00 > 367.00	5.303	5.301	0.002	1.187	311676	1.15	114	273
4 MFS_M3	577.00 > 483.00	5.901	5.888	0.013	1.321	230904	1.13	111	243
5 MFS_N3	627.00 > 533.00	6.093	6.091	0.002	1.364	322601	1.21	121	286
6 MFS_M4	743.00 > 649.00	6.488	6.483	0.005	1.452	116667	1.15	113	643
7 MFS_N4	793.00 > 699.00	6.611	6.616	-0.005	1.479	144179	1.47	146	737
8 MFS_N5	959.00 > 865.00	6.986	6.990	-0.004	1.563	111679	1.24	124	1078

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-26.d

Injection Date: 24-May-2022 12:43:08

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 14

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

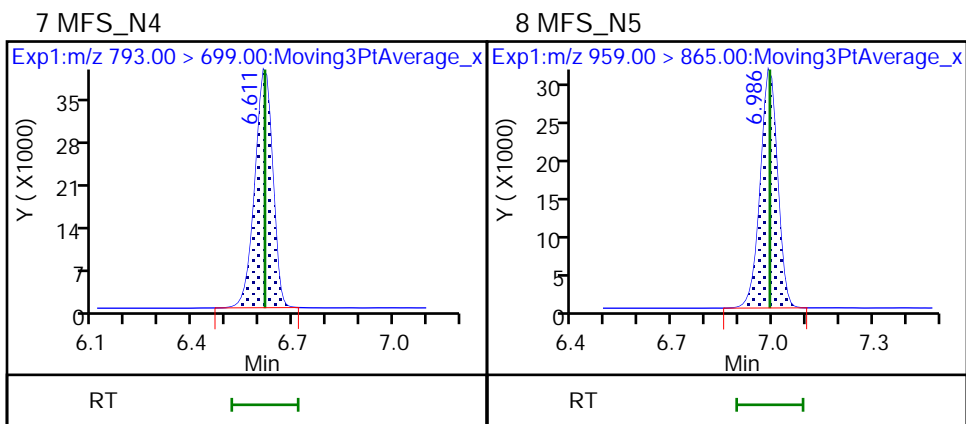
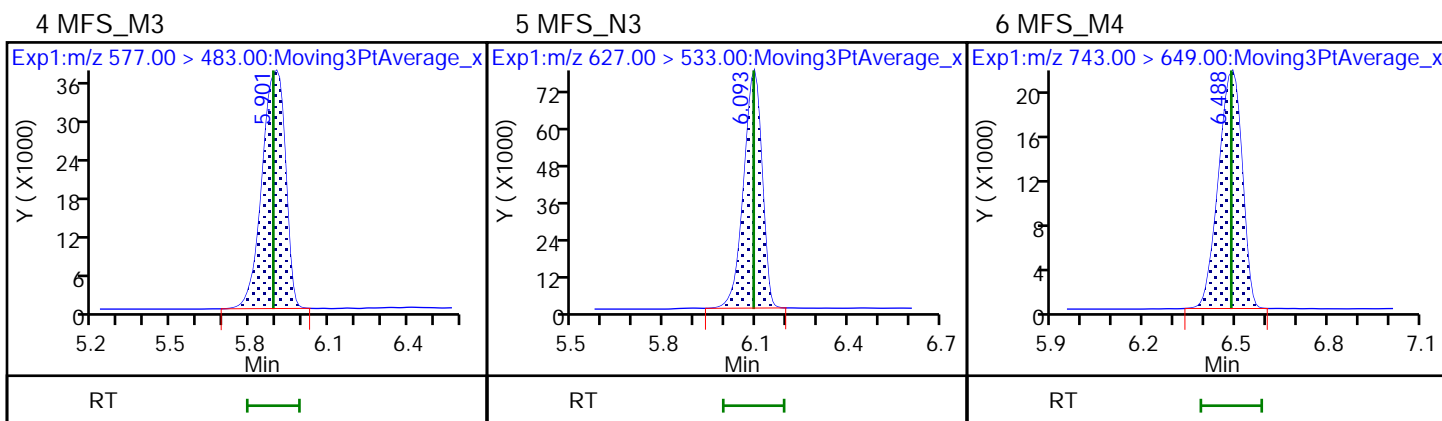
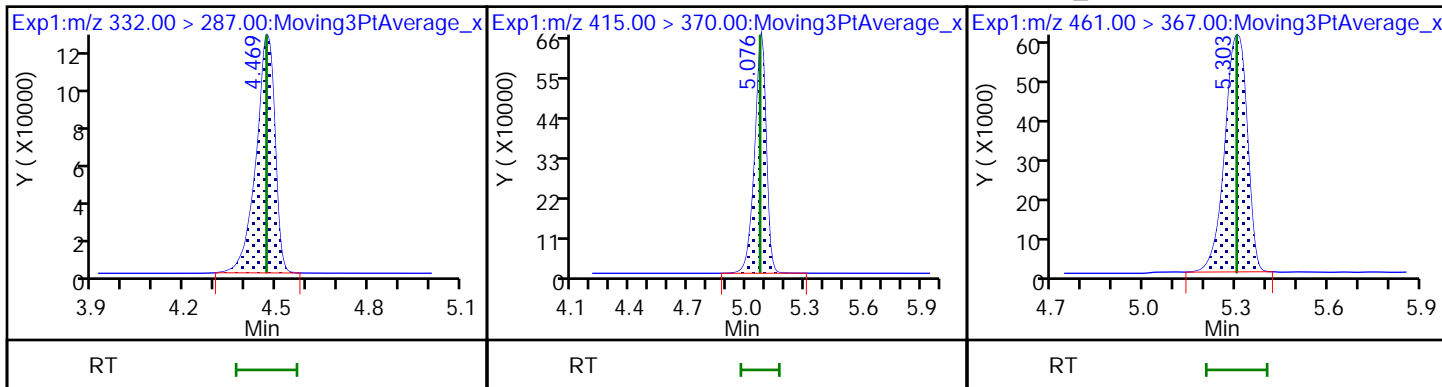
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-258462/25 Calibration Date: 05/24/2022 15:01
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-37.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.509		5.09	5.05	0.9	30.0
MFS_M3	LID1F		1.908		5.13	5.05	1.6	30.0
MFS_N3	LID1F		2.513		5.17	5.01	3.3	30.0
MFS_M4	LID1F		0.9765		5.35	5.10	4.9	30.0
MFS_N4	LID1F		1.027		5.72	5.02	13.9	30.0
MFS_N5	LID1F		0.7914		4.80	5.00	-4.1	30.0
13C3 HFPO-DA	Ave	0.2262	0.2248		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-37.d
 Lims ID: CCV 3_CAL4
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-May-2022 15:01:49 ALS Bottle#: 5 Worklist Smp#: 25
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL4
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:36 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 09:36:09

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.467	4.468	-0.001	0.881	499335	4.97	99.4	2487
* 2 13C2 PFOA	415.00 > 370.00	5.068	5.069	-0.001		2221477	5.00		3530
3 MFS_N2	461.00 > 367.00	5.297	5.301	-0.004	1.186	1264519	5.09	101	1541
4 MFS_M3	577.00 > 483.00	5.891	5.888	0.003	1.319	963060	5.13	102	850
5 MFS_N3	627.00 > 533.00	6.077	6.091	-0.014	1.361	1256906	5.17	103	1130
6 MFS_M4	743.00 > 649.00	6.480	6.483	-0.003	1.451	497177	5.35	105	2212
7 MFS_N4	793.00 > 699.00	6.605	6.616	-0.011	1.479	515020	5.72	114	2289
8 MFS_N5	959.00 > 865.00	6.980	6.990	-0.010	1.563	395521	4.80	95.9	2771

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-37.d

Injection Date: 24-May-2022 15:01:49

Instrument ID: 30733

Lims ID: CCV 3_CAL4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 25

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

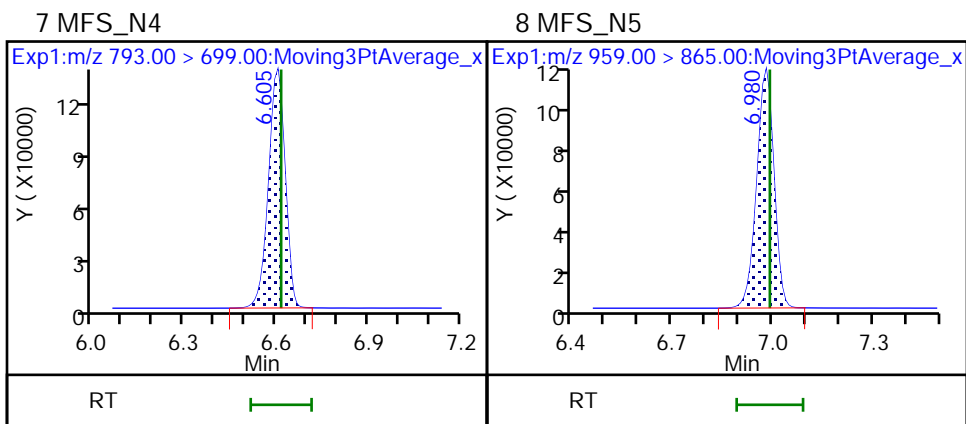
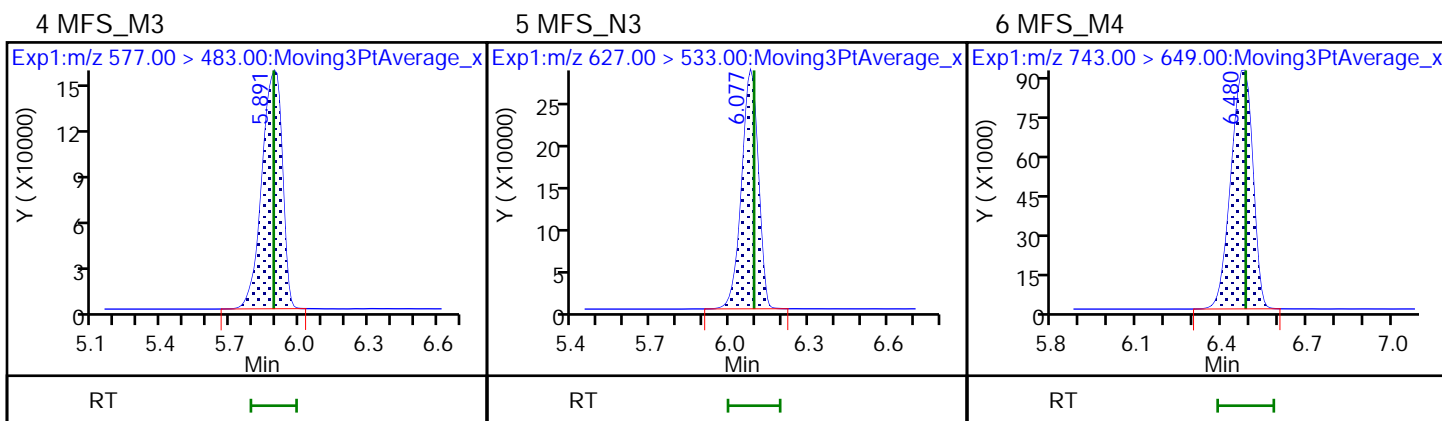
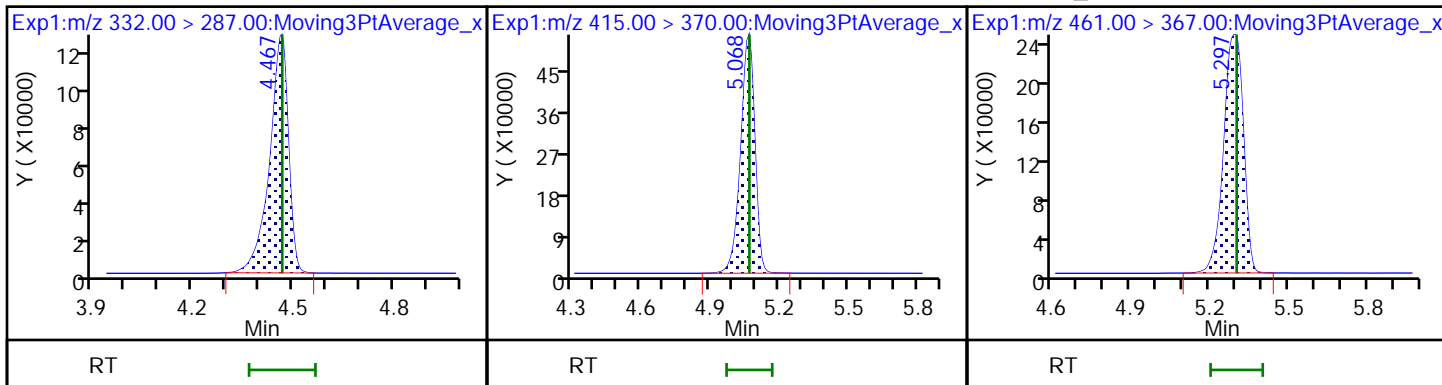
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: ICV 410-260443/9 Calibration Date: 05/31/2022 16:55
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22MAY31MFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.879		1.09	1.01	7.7	30.0
MFS_M3	LID1F		2.169		1.04	1.01	2.9	30.0
MFS_N3	LID1F		2.926		1.06	1.00	5.4	30.0
MFS_M4	LID1F		1.134		1.02	1.02	0.4	30.0
MFS_N4	Q2IDF		1.245		1.00	1.00	-0.2	30.0
MFS_N5	Q2IDF		1.049		0.955	1.00	-4.6	30.0
13C3 HFPO-DA	Ave	0.1978	0.1925		4.87	5.00	-2.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-09.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 31-May-2022 16:55:53 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:49 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:44

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.475	4.473	0.002	0.882	934126	4.87	97.3	1931
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		4852670	5.00		3132
3 MFS_N2	461.00 > 367.00	5.310	5.301	0.009	1.187	542799	1.09		854
4 MFS_M3	577.00 > 483.00	5.900	5.886	0.014	1.318	409573	1.04		294
5 MFS_N3	627.00 > 533.00	6.092	6.088	0.004	1.361	547482	1.06		683
6 MFS_M4	743.00 > 649.00	6.485	6.471	0.014	1.449	215958	1.02		777
7 MFS_N4	793.00 > 699.00	6.618	6.605	0.013	1.479	233672	1.00		703
8 MFS_N5	959.00 > 865.00	6.993	6.979	0.014	1.563	196246	0.9551		1147

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-09.d

Injection Date: 31-May-2022 16:55:53

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

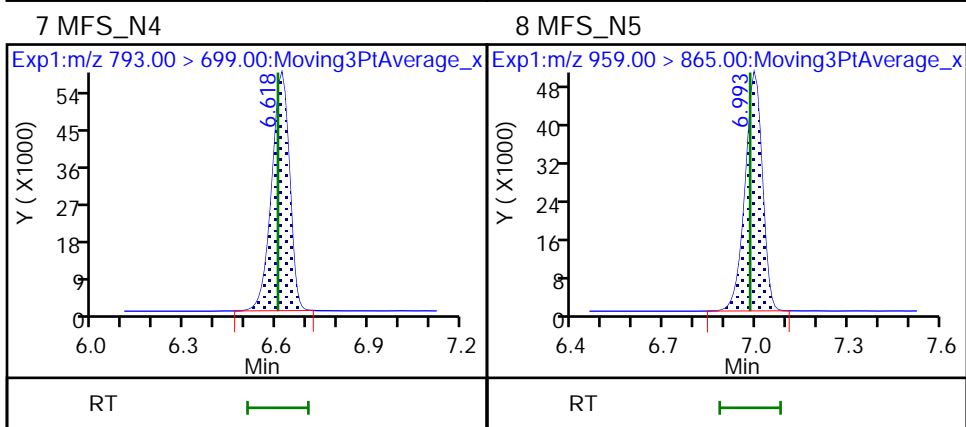
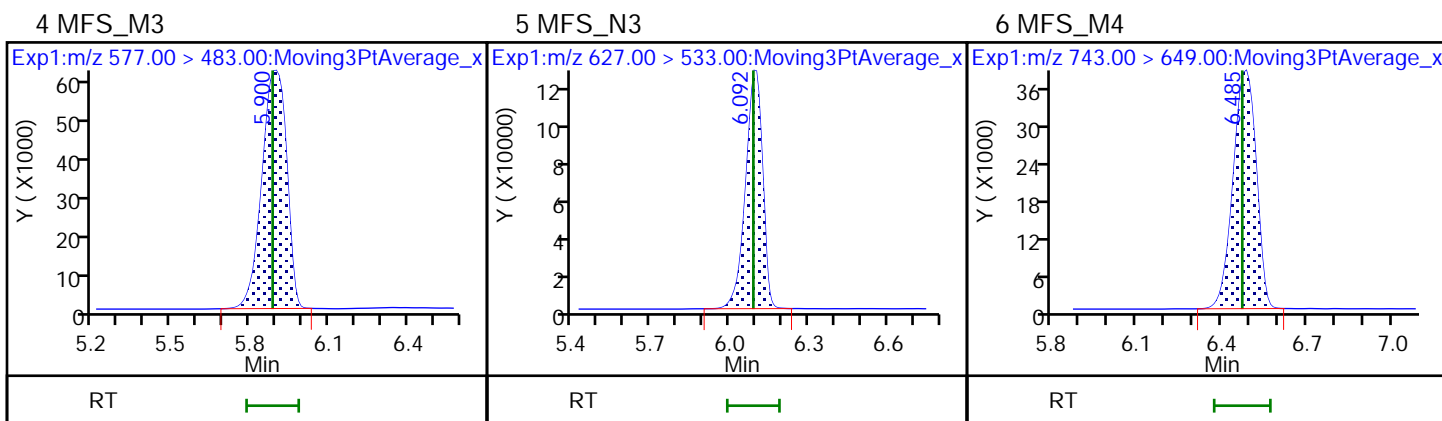
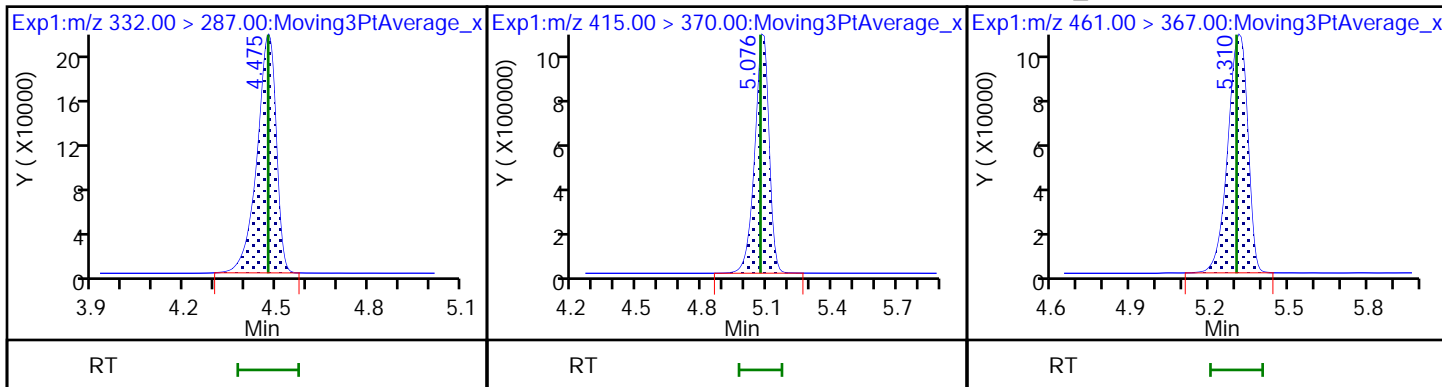
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260445/1 Calibration Date: 05/31/2022 17:33
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22MAY31MFS-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.832		0.535	0.505	6.0	30.0
MFS_M3	LID1F		2.178		0.522	0.505	3.3	30.0
MFS_N3	LID1F		2.882		0.520	0.501	3.8	30.0
MFS_M4	LID1F		1.148		0.518	0.510	1.7	30.0
MFS_N4	Q2IDF		1.324		0.532	0.502	5.9	30.0
MFS_N5	Q2IDF		1.175		0.534	0.500	6.8	30.0
13C3 HFPO-DA	Ave	0.1978	0.2023		5.11	5.00	2.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-12.d
 Lims ID: CCV 1_CAL2
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-May-2022 17:33:42 ALS Bottle#: 3 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 1_CAL2
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:37:13

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.478	4.473	0.005	0.882	1654939	5.11	102	2442
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		8181829	5.00		3688
3 MFS_N2	461.00 > 367.00	5.309	5.301	0.008	1.186	472950	0.5348	106	990
4 MFS_M3	577.00 > 483.00	5.899	5.886	0.013	1.318	364347	0.5222	103	261
5 MFS_N3	627.00 > 533.00	6.100	6.088	0.012	1.362	477596	0.5196	104	644
6 MFS_M4	743.00 > 649.00	6.486	6.471	0.015	1.449	193784	0.5183	102	822
7 MFS_N4	793.00 > 699.00	6.619	6.605	0.014	1.478	220149	0.5320	106	703
8 MFS_N5	959.00 > 865.00	6.993	6.979	0.014	1.562	194636	0.5344	107	1291

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-12.d

Injection Date: 31-May-2022 17:33:42

Instrument ID: 30733

Lims ID: CCV 1_CAL2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

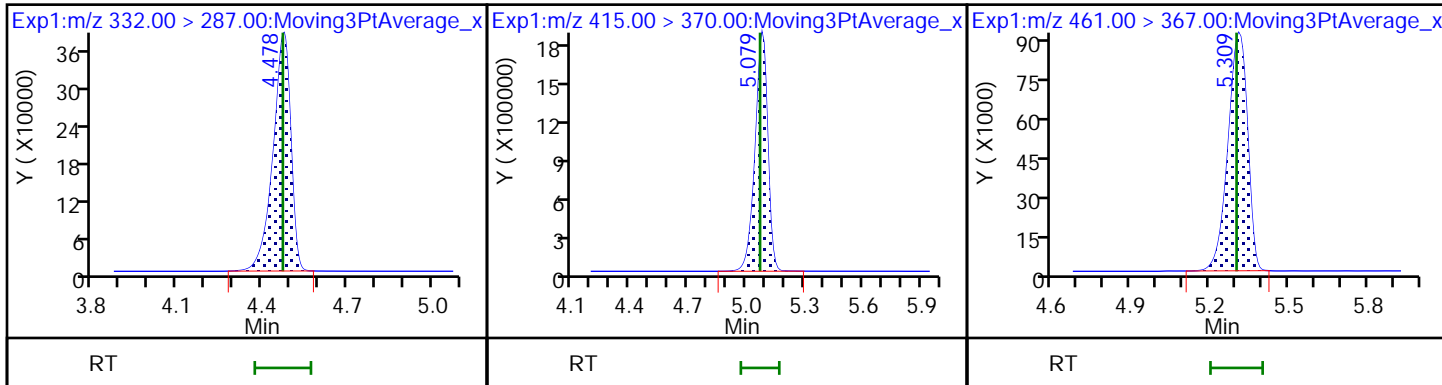
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

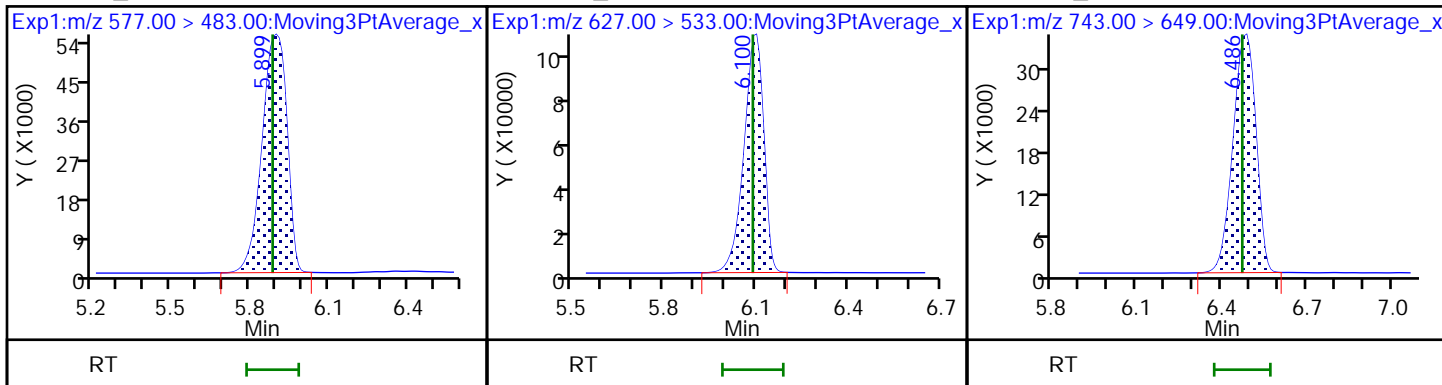
3 MFS_N2



4 MFS_M3

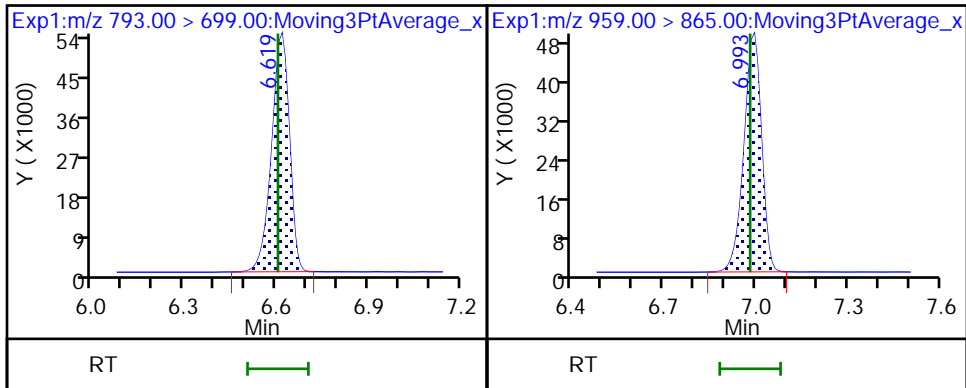
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260445/11 Calibration Date: 05/31/2022 19:39
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22MAY31MFS-22.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.845		1.07	1.01	6.5	30.0
MFS_M3	LID1F		2.114		1.01	1.01	0.3	30.0
MFS_N3	LID1F		2.843		1.03	1.00	2.4	30.0
MFS_M4	LID1F		1.151		1.04	1.02	1.8	30.0
MFS_N4	Q2IDF		1.329		1.07	1.00	6.6	30.0
MFS_N5	Q2IDF		1.140		1.04	1.00	3.7	30.0
13C3 HFPO-DA	Ave	0.1978	0.1922		4.86	5.00	-2.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-22.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-May-2022 19:39:57 ALS Bottle#: 4 Worklist Smp#: 11
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:45:03 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:45:03

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.473	-0.001	0.881	1177553	4.86	97.2	2247
* 2 13C2 PFOA	415.00 > 370.00	5.077	5.069	0.008		6127094	5.00		3333
3 MFS_N2	461.00 > 367.00	5.307	5.301	0.006	1.187	676167	1.07	106	1250
4 MFS_M3	577.00 > 483.00	5.885	5.886	-0.001	1.316	503310	1.01	100	354
5 MFS_N3	627.00 > 533.00	6.088	6.088	0.0	1.361	670583	1.03	102	901
6 MFS_M4	743.00 > 649.00	6.482	6.471	0.011	1.450	276295	1.04	102	1048
7 MFS_N4	793.00 > 699.00	6.614	6.605	0.009	1.479	314443	1.07	107	1075
8 MFS_N5	959.00 > 865.00	6.989	6.979	0.010	1.563	268737	1.04	104	1634

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-22.d

Injection Date: 31-May-2022 19:39:57

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 11

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

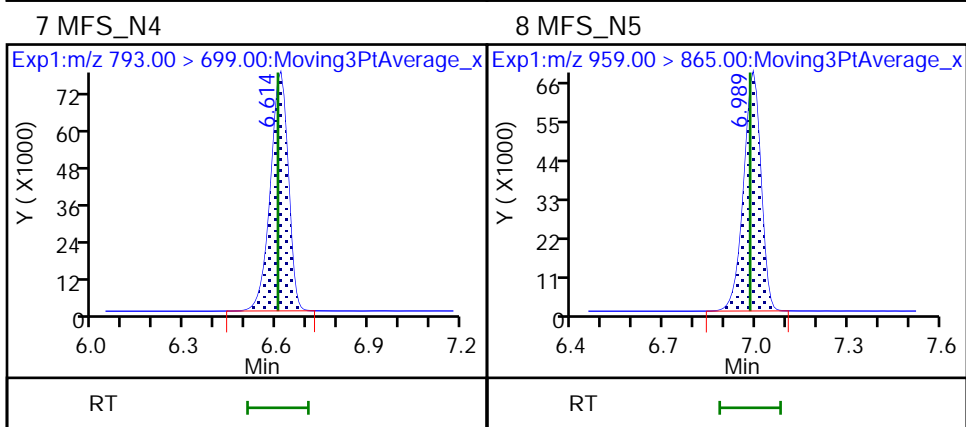
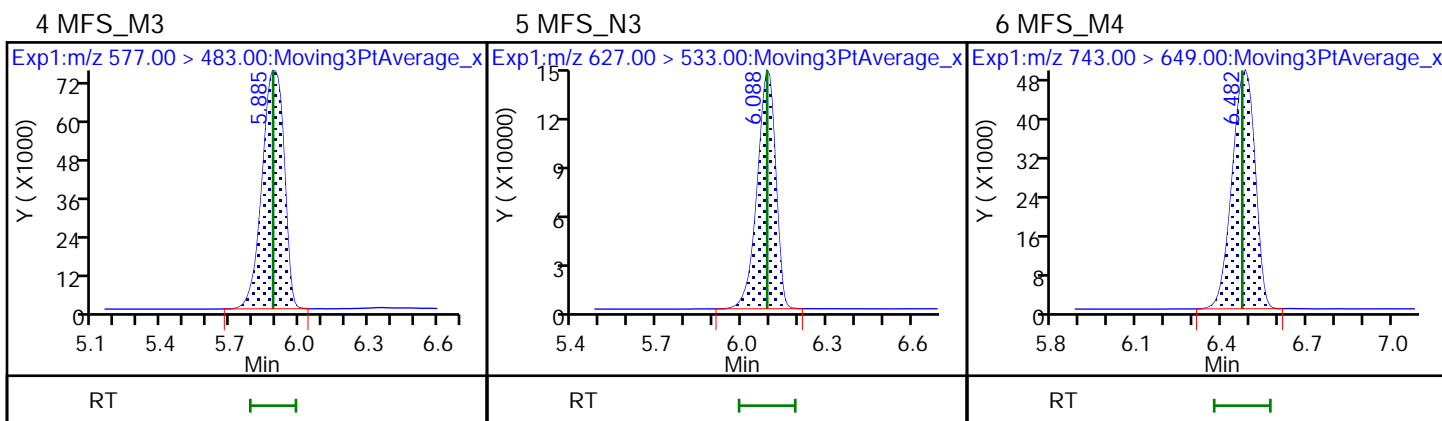
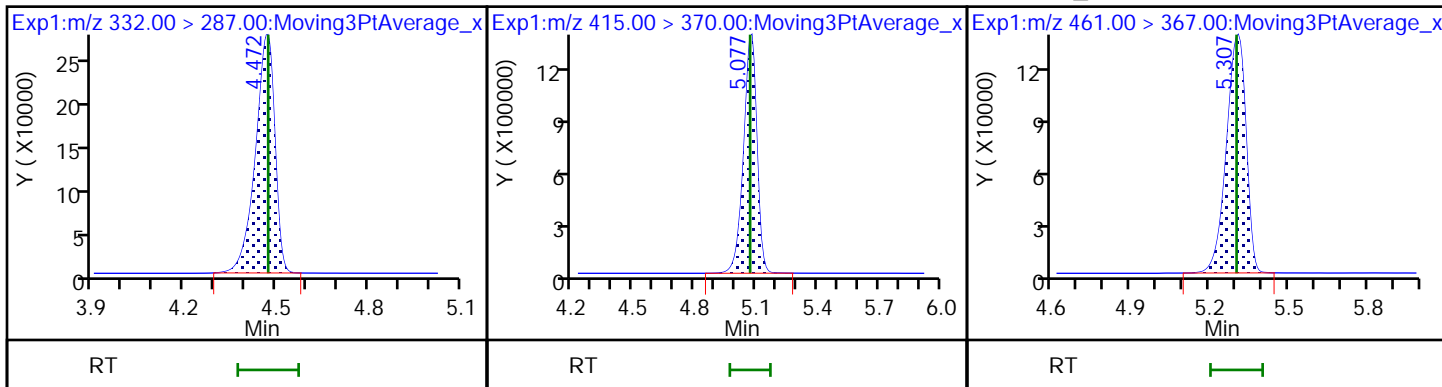
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-256033/1-A

Matrix: Water Lab File ID: 22MAY24MFS-14.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 250 (mL) Date Analyzed: 05/24/2022 10:10

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-14.d
 Lims ID: MB 410-256033/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 24-May-2022 10:10:41 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-256033/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:46 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 12:54:15
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.474 4.468 0.006 0.881 592680 4.24 84.8 3622
 * 2 13C2 PFOA
 415.00 > 370.00 5.076 5.069 0.007 3090779 5.00 4705

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-14.d

Injection Date: 24-May-2022 10:10:41

Instrument ID: 30733

Lims ID: MB 410-256033/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

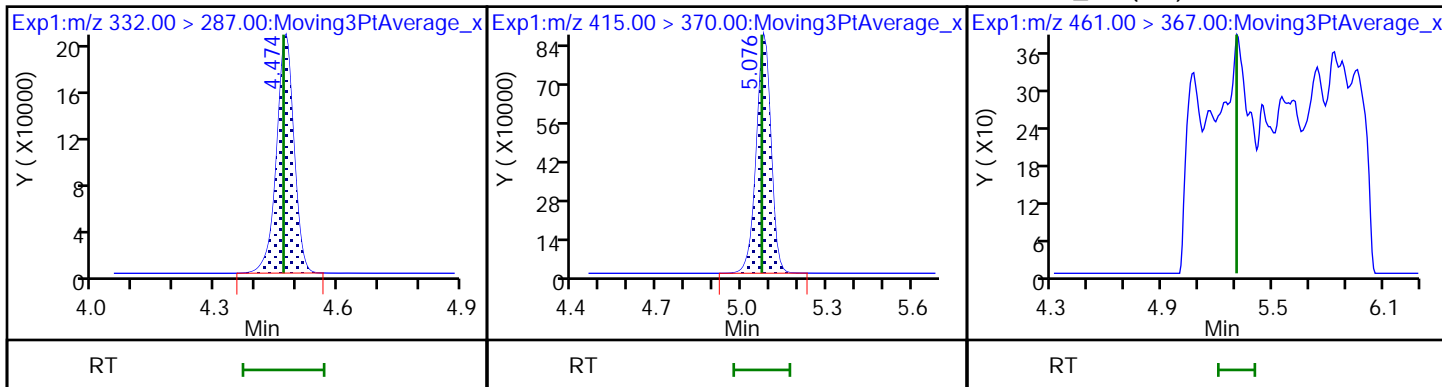
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

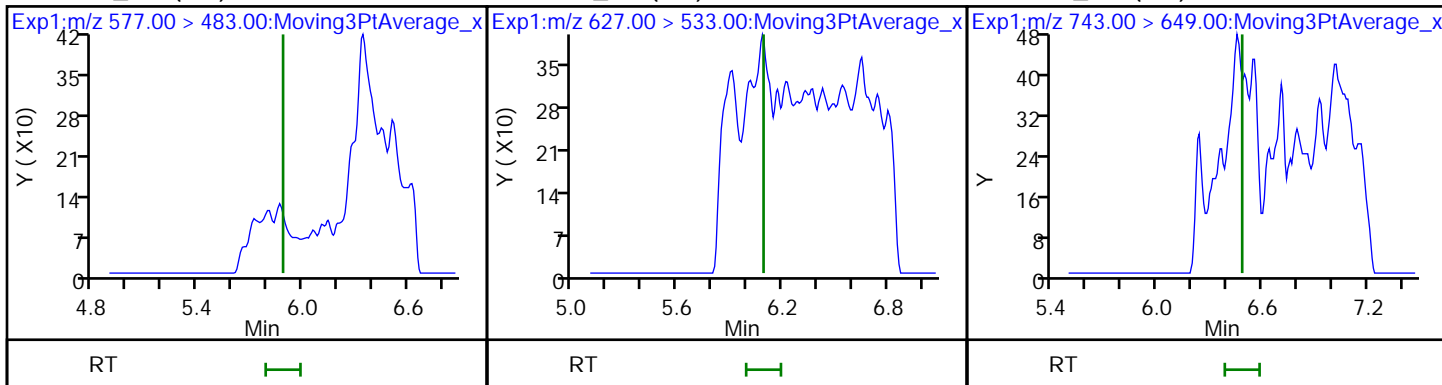
3 MFS_N2 (ND)



4 MFS_M3 (ND)

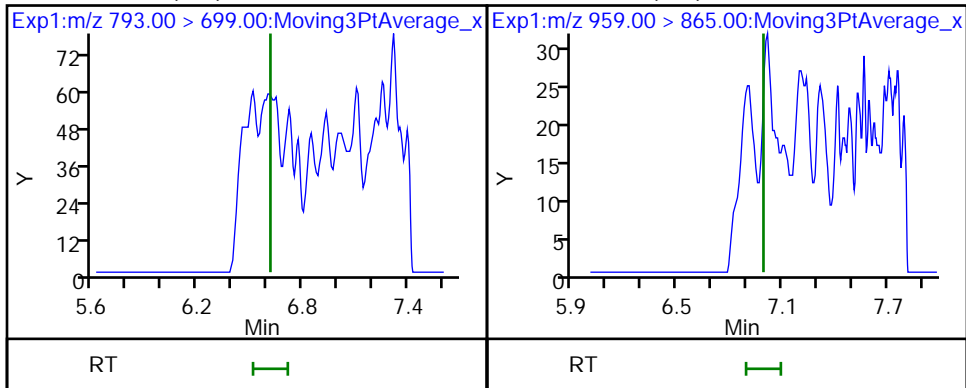
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-258360/8

Matrix: Water Lab File ID: 22MAY24MFS-08.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 05/24/2022 08:53

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258360 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-08.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 24-May-2022 08:53:48 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:48 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:17
 Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.469	4.475	-0.006	0.882	678388	5.14	103	2325
* 2 13C2 PFOA	415.00 > 370.00	5.066	5.076	-0.010		2919153	5.00		3471

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00009 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00325 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-08.d

Injection Date: 24-May-2022 08:53:48

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

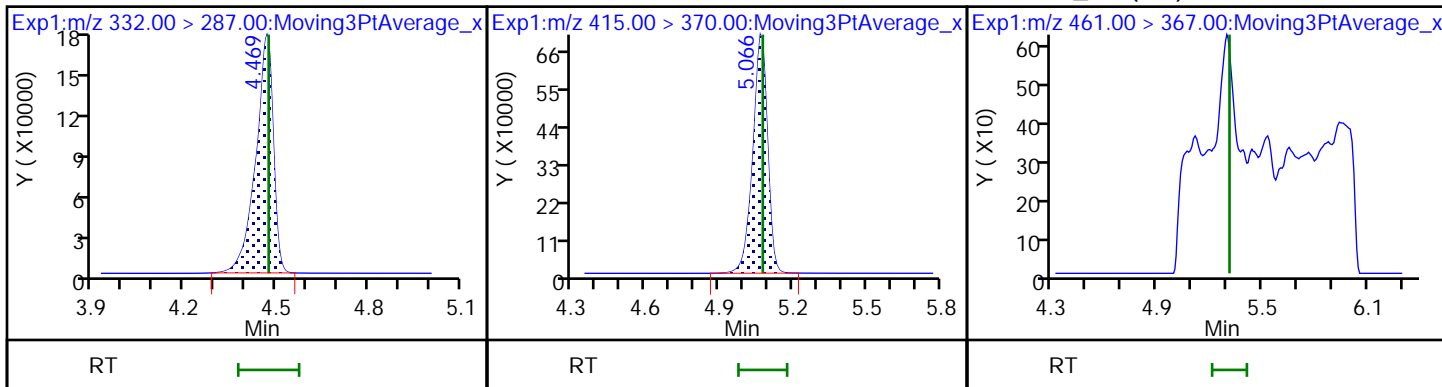
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

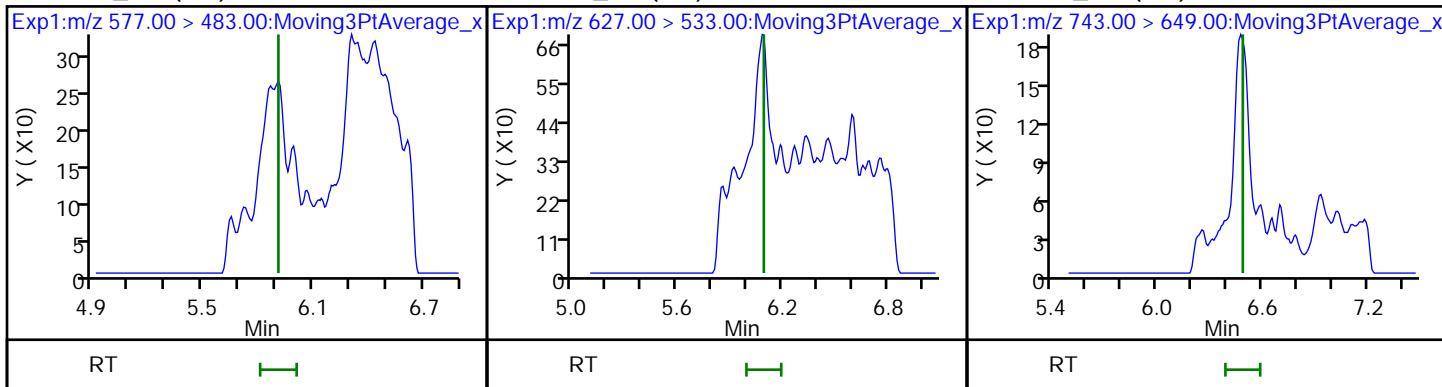
3 MFS_N2 (ND)



4 MFS_M3 (ND)

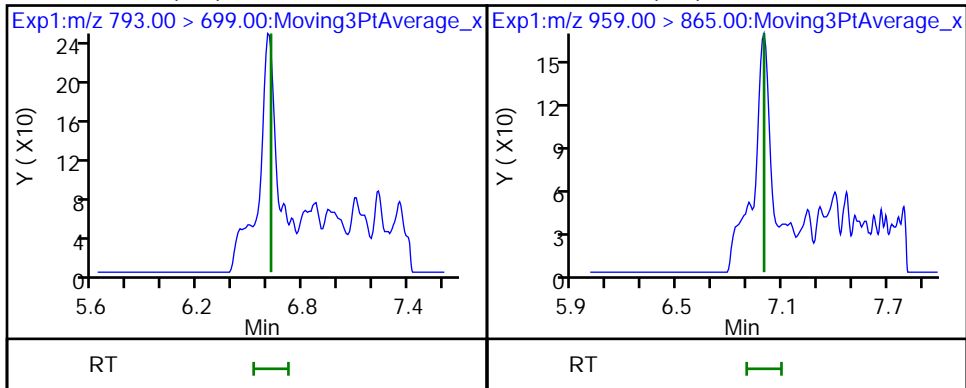
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-260443/8

Matrix: Water Lab File ID: 22MAY31MFS-08.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 05/31/2022 16:43

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260443 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-08.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 31-May-2022 16:43:15 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:31 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:39

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.466	4.473	-0.007	0.881	908898	4.73	94.6	1713
* 2 13C2 PFOA	415.00 > 370.00	5.067	5.069	-0.002		4856868	5.00		3551

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00009 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00325 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-08.d

Injection Date: 31-May-2022 16:43:15

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

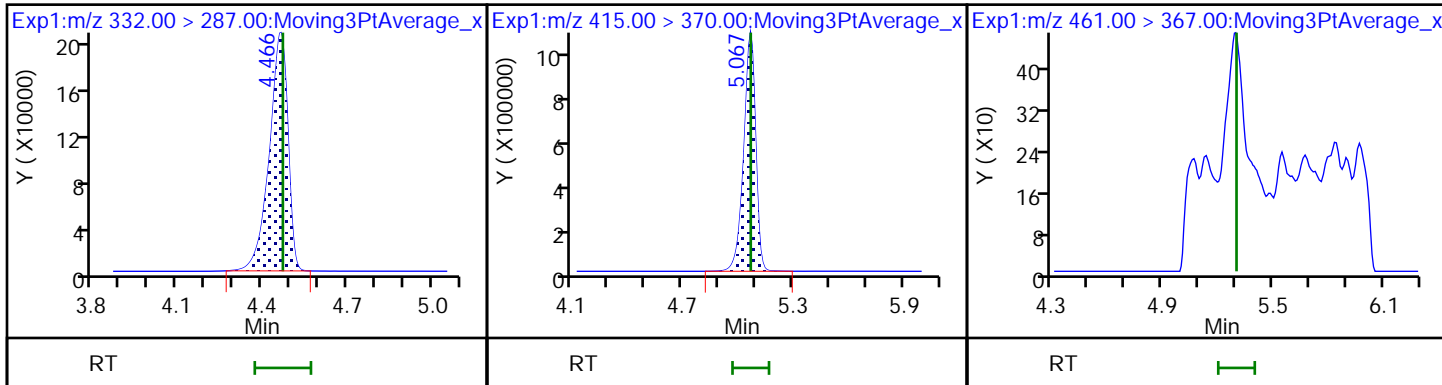
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

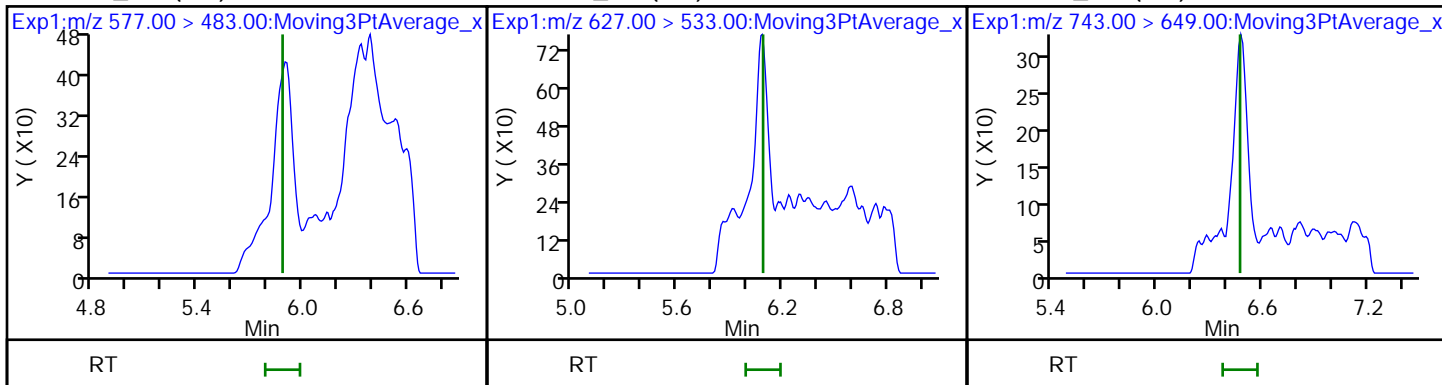
3 MFS_N2 (ND)



4 MFS_M3 (ND)

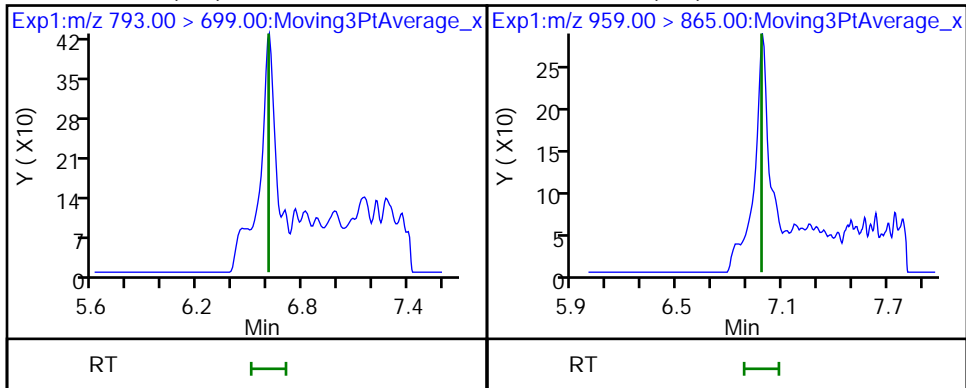
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83412-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-256033/2-A

Matrix: Water Lab File ID: 22MAY31MFS-13.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 250 (mL) Date Analyzed: 05/31/2022 17:46

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	45.5		1.0	0.20
STL02874	MFS_M3	44.8		1.0	0.20
STL02875	MFS_N3	44.2		1.0	0.20
STL02876	MFS_M4	43.4		1.0	0.50
STL02877	MFS_N4	43.2		2.0	1.0
STL02888	MFS_N5	44.6		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-13.d
 Lims ID: LCS 410-256033/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-May-2022 17:46:19 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-256033/2-A RA
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:37:34
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.481	4.473	0.008	0.881	755084	3.71	74.2	2879
* 2 13C2 PFOA	415.00 > 370.00	5.087	5.069	0.018		5143384	5.00		3511
3 MFS_N2	461.00 > 367.00	5.322	5.301	0.021	1.188	4585872	11.4	113	8294
4 MFS_M3	577.00 > 483.00	5.896	5.886	0.010	1.316	3567149	11.2	111	1481
5 MFS_N3	627.00 > 533.00	6.097	6.088	0.009	1.361	4630836	11.0	110	3205
6 MFS_M4	743.00 > 649.00	6.481	6.471	0.010	1.446	1852226	10.9	106	3152
7 MFS_N4	793.00 > 699.00	6.622	6.605	0.017	1.478	1955974	10.8	108	3002
8 MFS_N5	959.00 > 865.00	6.995	6.979	0.016	1.561	1828822	11.2	111	4685

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-13.d

Injection Date: 31-May-2022 17:46:19

Instrument ID: 30733

Lims ID: LCS 410-256033/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

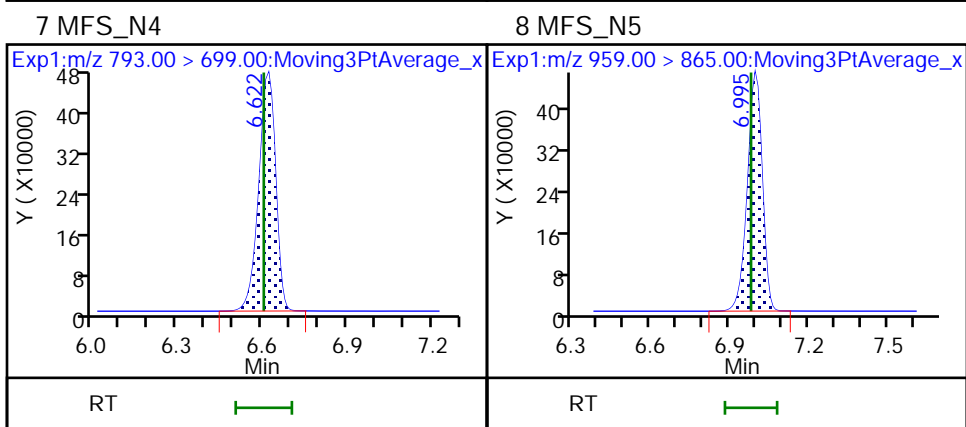
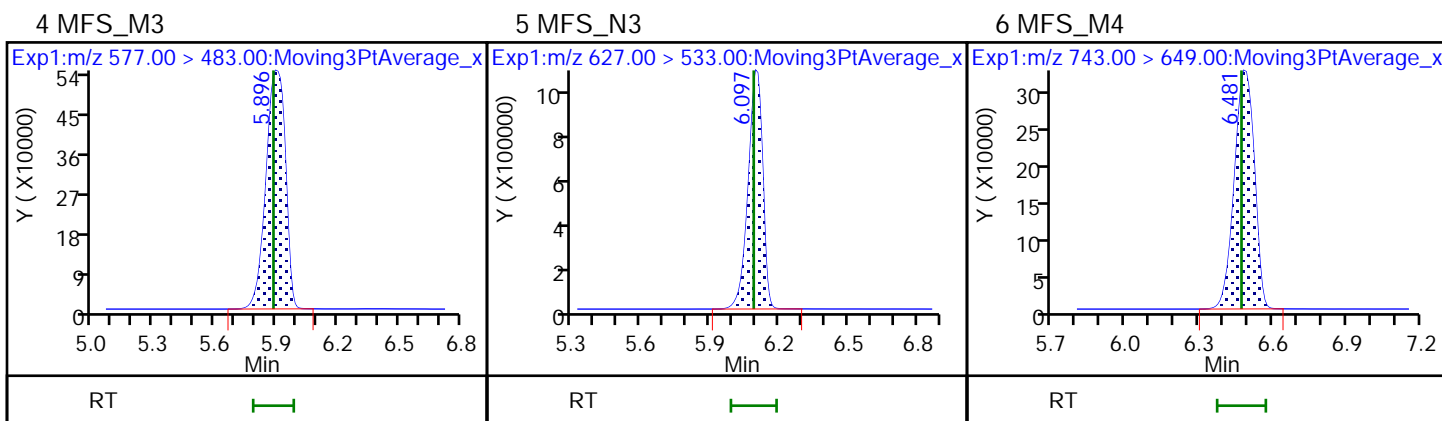
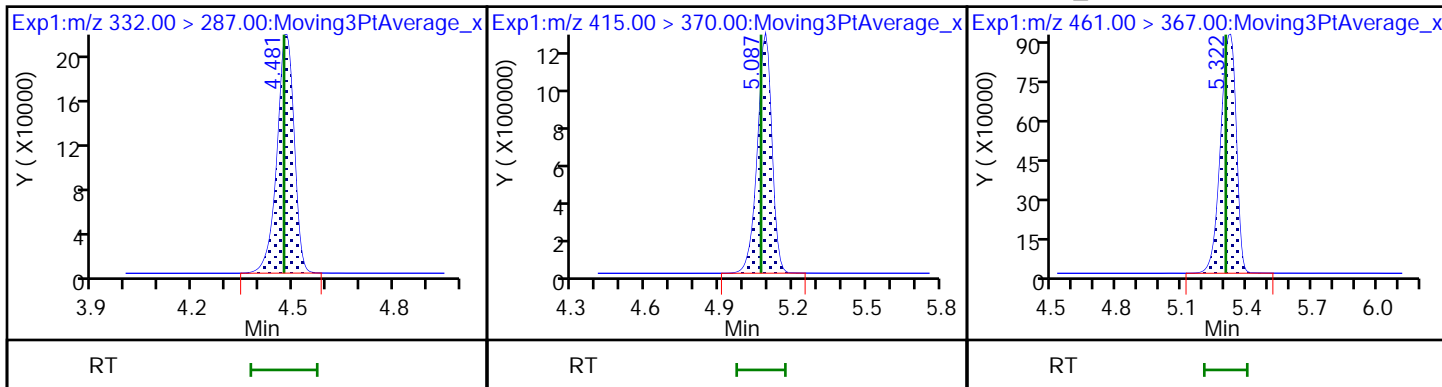
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/24/2022 07:24

Analysis Batch Number: 258360 End Date: 05/24/2022 09:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-258360/1		05/24/2022 07:24	1	22MAY24MFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-258360/2		05/24/2022 07:38	1	22MAY24MFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-258360/3		05/24/2022 07:50	1	22MAY24MFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-258360/4		05/24/2022 08:03	1	22MAY24MFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-258360/5		05/24/2022 08:15	1	22MAY24MFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-258360/6		05/24/2022 08:28	1	22MAY24MFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-258360/7		05/24/2022 08:41	1	22MAY24MFS-07.d	Gemini C18 50mm 3 (mm)
ICB 410-258360/8		05/24/2022 08:53	1	22MAY24MFS-08.d	Gemini C18 50mm 3 (mm)
ICV 410-258360/9		05/24/2022 09:06	1	22MAY24MFS-09.d	Gemini C18 50mm 3 (mm)
CCV 410-258360/10		05/24/2022 09:19	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/24/2022 09:56

Analysis Batch Number: 258462 End Date: 05/24/2022 15:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-258462/1		05/24/2022 09:56	1	22MAY24MFS-13.d	Gemini C18 50mm 3 (mm)
MB 410-256033/1-A		05/24/2022 10:10	1	22MAY24MFS-14.d	Gemini C18 50mm 3 (mm)
410-83412-1	MW-110S	05/24/2022 10:35	1	22MAY24MFS-16.d	Gemini C18 50mm 3 (mm)
410-83412-2	MW-110D	05/24/2022 10:48	1	22MAY24MFS-17.d	Gemini C18 50mm 3 (mm)
410-83412-3	MW-112S	05/24/2022 11:01	1	22MAY24MFS-18.d	Gemini C18 50mm 3 (mm)
410-83412-4	MW-112D	05/24/2022 11:13	1	22MAY24MFS-19.d	Gemini C18 50mm 3 (mm)
410-83412-5	EB_05092022	05/24/2022 11:26	1	22MAY24MFS-20.d	Gemini C18 50mm 3 (mm)
410-83412-6	AB_05092022	05/24/2022 11:38	1	22MAY24MFS-21.d	Gemini C18 50mm 3 (mm)
410-83412-7	MW-109S-PDB	05/24/2022 11:51	1	22MAY24MFS-22.d	Gemini C18 50mm 3 (mm)
410-83412-8	MW-111S-PDB	05/24/2022 12:04	1	22MAY24MFS-23.d	Gemini C18 50mm 3 (mm)
410-83412-9	MW-111D-PDB	05/24/2022 12:16	1	22MAY24MFS-24.d	Gemini C18 50mm 3 (mm)
410-83412-10	MW-101S	05/24/2022 12:29	1	22MAY24MFS-25.d	Gemini C18 50mm 3 (mm)
CCV 410-258462/14		05/24/2022 12:43	1	22MAY24MFS-26.d	Gemini C18 50mm 3 (mm)
410-83412-11	MW-101D	05/24/2022 12:55	1	22MAY24MFS-27.d	Gemini C18 50mm 3 (mm)
410-83412-12	EB_05102022	05/24/2022 13:08	1	22MAY24MFS-28.d	Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 13:20	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 13:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 13:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 13:58	1		Gemini C18 50mm 3 (mm)
CCV 410-258462/25		05/24/2022 15:01	1	22MAY24MFS-37.d	Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 15:14	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 15:27	1		Gemini C18 50mm 3 (mm)
CCV 410-258462/28		05/24/2022 15:39	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/31/2022 15:13

Analysis Batch Number: 260443 End Date: 05/31/2022 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-260443/1		05/31/2022 15:13	1	22MAY31MFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-260443/2		05/31/2022 15:27	1	22MAY31MFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-260443/3		05/31/2022 15:40	1	22MAY31MFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-260443/4		05/31/2022 15:52	1	22MAY31MFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-260443/5		05/31/2022 16:05	1	22MAY31MFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-260443/6		05/31/2022 16:18	1	22MAY31MFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-260443/7		05/31/2022 16:30	1	22MAY31MFS-07.d	Gemini C18 50mm 3 (mm)
ICB 410-260443/8		05/31/2022 16:43	1	22MAY31MFS-08.d	Gemini C18 50mm 3 (mm)
ICV 410-260443/9		05/31/2022 16:55	1	22MAY31MFS-09.d	Gemini C18 50mm 3 (mm)
CCV 410-260443/10		05/31/2022 17:08	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83412-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/31/2022 17:33

Analysis Batch Number: 260445 End Date: 05/31/2022 21:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-260445/1		05/31/2022 17:33	1	22MAY31MFS-12.d	Gemini C18 50mm 3 (mm)
LCS 410-256033/2-A		05/31/2022 17:46	1	22MAY31MFS-13.d	Gemini C18 50mm 3 (mm)
410-83412-7 DL	MW-109S-PDB DL	05/31/2022 17:58	10	22MAY31MFS-14.d	Gemini C18 50mm 3 (mm)
410-83412-8 DL	MW-111S-PDB DL	05/31/2022 18:11	10	22MAY31MFS-15.d	Gemini C18 50mm 3 (mm)
410-83412-9 DL	MW-111D-PDB DL	05/31/2022 18:24	10	22MAY31MFS-16.d	Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 18:36	10		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 18:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 19:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 19:14	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 19:27	1		Gemini C18 50mm 3 (mm)
CCV 410-260445/11		05/31/2022 19:39	1	22MAY31MFS-22.d	Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 19:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 20:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 20:17	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 20:30	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 20:43	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 20:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 21:08	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 21:20	1		Gemini C18 50mm 3 (mm)
CCV 410-260445/20		05/31/2022 21:33	1		Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 256033 Batch Start Date: 05/17/22 09:10 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN MFS 00024	PFC_SS 00010
MB 410-256033/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-256033/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-83412-B-1	MW-110S	3535, MFS	T	349.87 g	27.22 g	322.7 mL	1 mL		0.1 mL
410-83412-B-2	MW-110D	3535, MFS	T	321.03 g	27.37 g	293.7 mL	1 mL		0.1 mL
410-83412-B-3	MW-112S	3535, MFS	T	314.97 g	27.45 g	287.5 mL	1 mL		0.1 mL
410-83412-B-4	MW-112D	3535, MFS	T	328.07 g	27.11 g	301 mL	1 mL		0.1 mL
410-83412-B-5	EB_05092022	3535, MFS	T	285.68 g	27.67 g	258 mL	1 mL		0.1 mL
410-83412-B-6	AB_05092022	3535, MFS	T	292.80 g	27.78 g	265 mL	1 mL		0.1 mL
410-83412-B-7	MW-109S-PDB	3535, MFS	T	315.69 g	27.83 g	287.9 mL	1 mL		0.1 mL
410-83412-B-8	MW-111S-PDB	3535, MFS	T	312.46 g	27.04 g	285.4 mL	1 mL		0.1 mL
410-83412-B-9	MW-111D-PDB	3535, MFS	T	302.43 g	27.34 g	275.1 mL	1 mL		0.1 mL
410-83412-B-10	MW-101S	3535, MFS	T	316.79 g	27.65 g	289.1 mL	1 mL		0.1 mL
410-83412-B-11	MW-101D	3535, MFS	T	304.08 g	27.19 g	276.9 mL	1 mL		0.1 mL
410-83412-B-12	EB_05102022	3535, MFS	T	307.77 g	27.06 g	280.7 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-256033/1		3535, MFS							
LCS 410-256033/2		3535, MFS							
410-83412-B-1	MW-110S	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-B-2	MW-110D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-B-3	MW-112S	3535, MFS	T	Discolored, Particulate, Vacuum was applied					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 256033 Batch Start Date: 05/17/22 09:10 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-83412-B-4	MW-112D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-B-5	EB_05092022	3535, MFS	T						
410-83412-B-6	AB_05092022	3535, MFS	T						
410-83412-B-7	MW-109S-PDB	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-B-8	MW-111S-PDB	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-B-9	MW-111D-PDB	3535, MFS	T	Discolored, Particulate, Vacuum was applied, Cloudy					
410-83412-B-10	MW-101S	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-B-11	MW-101D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83412-B-12	EB_05102022	3535, MFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 256033 Batch Start Date: 05/17/22 09:10 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6666672-01
Balance ID	C125996498
Manifold ID	1 & 4
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217301
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210130-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End: B410-256033



Solid-Phase Extraction (SPE)

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHs		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
				Rcvd	Adj1					
1 MB-410-256033/1 N/A	N/A	300 g	250 mL			N/A	N/A	N/A		
		50 g	1 mL							
2 LCS-410-256033/2 N/A	N/A	300 g	250 mL			N/A	N/A	N/A		
		50 g	1 mL							
3 410-83412-B-1 (MFS_IDA)	N/A (410-83412-1)	349.87 g	322.7 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.22 g	1 mL							
4 410-83412-B-2 (MFS_IDA)	N/A (410-83412-1)	321.03 g	293.7 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.37 g	1 mL							
5 410-83412-B-3 (MFS_IDA)	N/A (410-83412-1)	314.97 g	287.5 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.45 g	1 mL							
6 410-83412-B-4 (MFS_IDA)	N/A (410-83412-1)	328.07 g	301 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.11 g	1 mL							
7 410-83412-B-5 (MFS_IDA)	N/A (410-83412-1)	285.68 g	258 mL			5/13/22	7_Days	4		
		27.67 g	1 mL							
8 410-83412-B-6 (MFS_IDA)	N/A (410-83412-1)	292.80 g	265 mL			5/13/22	7_Days	4		
		27.78 g	1 mL							

Printed: 5/17/2022

N-EXAP C, 40°C

EBG 2009/4

Page 1 of 7

5/19/20

Reconstituted by EBG 2009/4 5/19/22
-ancaster Laboratories Environment Testing, LLC/1/22

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna


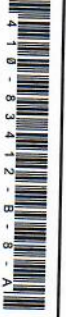
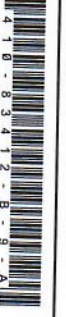






Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/02/2022

Sample ID	Container ID	Weight (g)	Volume (mL)	Date	Incubation	Replicates	Observations	Barcode
9	410-83412-B-7 (MFS_IDA)	N/A	287.9 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		815.69 g						
10	410-83412-B-8 (MFS_IDA)	N/A	285.4 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		812.46 g						
		27.83 g						
11	410-83412-B-9 (MFS_IDA)	N/A	275.1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy	
		802.43 g						
12	410-83412-B-10 (MFS_IDA)	N/A	289.1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.34 g						
13	410-83412-B-11 (MFS_IDA)	N/A	276.9 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		804.08 g						
14	410-83412-B-12 (MFS_IDA)	N/A	280.7 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.19 g						
15	410-83867-B-1 (MFS_IDA)	N/A	257.4 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		285.86 g						
16	410-83867-B-2 (MFS_IDA)	N/A	292.7 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		28.47 g						
17	410-83867-B-3 (MFS_IDA)	N/A	269.3 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy	
		298.47 g						

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna



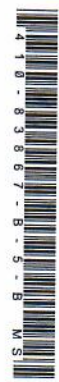





Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/02/2022

Sample ID	Container ID	Weight (g)	Volume (mL)	Date	Days	Replicates	Notes	Barcode
18	410-83867-B-4 (MFS_IDA)	N/A (410-83867-1)	29.14 g	1 mL	5/18/22	4	Discolored, Particulate, Vacuum was applied	
			321.30 g	293.8 mL				
19	410-83867-B-5 (MFS_IDA)	N/A (410-83867-1)	27.47 g	1 mL	5/18/22	4	Discolored, Sediment, Vacuum was applied	
			289.45 g	262.3 mL				
20	410-83867-B-5-MS (MFS_IDA)	N/A (410-83867-1)	27.16 g	1 mL	5/18/22	4	Discolored, Sediment, Vacuum was applied	
			322.94 g	294.8 mL				
21	410-83867-B-5-MSD (MFS_IDA)	N/A (410-83867-1)	28.12 g	1 mL	5/18/22	4	Discolored, Sediment, Vacuum was applied	
			320.49 g	293.2 mL				
22	410-83867-B-7 (MFS_IDA)	N/A (410-83867-1)	27.27 g	1 mL	5/18/22	4	Discolored, Particulate, Vacuum was applied	
			330.00 g	301.9 mL				
23	410-83867-B-8 (MFS_IDA)	N/A (410-83867-1)	28.07 g	1 mL	5/18/22	4	Discolored, Particulate, Vacuum was applied	
			289.30 g	261.2 mL				
24	410-83867-B-9 (MFS_IDA)	N/A (410-83867-1)	28.15 g	1 mL	5/18/22	4	Discolored, Particulate, Vacuum was applied	
			289.05 g	261.4 mL				
			27.66 g	1 mL				

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/02/2022

Batch Notes

pH Indicator ID	
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6666672-01
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	C125996498
Manifold ID	1 & 4
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8
Na2SO4 ID	
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217301
Milli-Q Reagent Water ID	House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/02/2022

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210130-058

Batch Comment

Comments

410-83412-B-11

Method Comments: Client note: HIGH TURBIDITY

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/02/2022

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-256033/1	PFC_SS_00010	.100 mL	1 mL		
LCS 410-256033/2	PFC_IN_MFS_00024	.100 mL	1 mL		
LCS 410-256033/2	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-1	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-2	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-3	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-4	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-5	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-6	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-7	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-8	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-9	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-10	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-11	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-12	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-1	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-2	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-3	PFC_SS_00010	.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Oper: 5/17/2022 9:10:00AM

Batch End:

06/02/2022

410-83867-B-4	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-5	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-5 MS	PFC_IN_MFS_00024	.100 mL	1 mL		
410-83867-B-5 MS	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-5 MSD	PFC_IN_MFS_00024	.100 mL	1 mL		
410-83867-B-5 MSD	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-7	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-8	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-9	PFC_SS_00010	.100 mL	1 mL		

Other Reagents:

Reagent

Amount/Units

Lot#:

Internal Standard

20ul

PFC-15 MSD 0838

DCM910 05/19/22

D10 - 850 ul MeOH (ED 663-05) + 50 ul IS (PFC-15 MSD 00331) + 100 ul sample

*410427321
5/25/22*

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 258360 Batch Start Date: 05/24/22 07:24 Batch Analyst: Kruelle, Hannah K

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00009	PFC_INT_ 00009	PFC_IS_MOD 00325	PFC_STD_MFS1 00008	PFC_STD_MFS2 00009	PFC_STD_MFS3 00007
IC 410-258360/1		MFS					200 uL		
IC 410-258360/2		MFS						200 uL	
IC 410-258360/3		MFS							200 uL
IC 410-258360/4		MFS							
ICISAV 410-258360/5		MFS							
IC 410-258360/6		MFS							
IC 410-258360/7		MFS							
ICB 410-258360/8		MFS			10 uL	50 uL			
ICV 410-258360/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00009	PFC_STD_MFS5 00007	PFC_STD_MFS6 00007	PFC_STD_MFS7 00007		
IC 410-258360/1		MFS							
IC 410-258360/2		MFS							
IC 410-258360/3		MFS							
IC 410-258360/4		MFS		200 uL					
ICISAV 410-258360/5		MFS			200 uL				
IC 410-258360/6		MFS				200 uL			
IC 410-258360/7		MFS					200 uL		
ICB 410-258360/8		MFS							
ICV 410-258360/9		MFS							

Batch Notes	
Mobil Phase ID	2732105232233A; 2732105232233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83412-1

SDG No.: _____

Batch Number: 260443 Batch Start Date: 05/31/22 15:13 Batch Analyst: Kruelle, Hannah K

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00009	PFC_INT_ 00009	PFC_IS_MOD 00325	PFC_STD_MFS1 00008	PFC_STD_MFS2 00009	PFC_STD_MFS3 00007
IC 410-260443/1		MFS					200 uL		
IC 410-260443/2		MFS						200 uL	
IC 410-260443/3		MFS							200 uL
IC 410-260443/4		MFS							
ICISAV 410-260443/5		MFS							
IC 410-260443/6		MFS							
IC 410-260443/7		MFS							
ICB 410-260443/8		MFS			10 uL	50 uL			
ICV 410-260443/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00009	PFC_STD_MFS5 00007	PFC_STD_MFS6 00007	PFC_STD_MFS7 00007		
IC 410-260443/1		MFS							
IC 410-260443/2		MFS							
IC 410-260443/3		MFS							
IC 410-260443/4		MFS		200 uL					
ICISAV 410-260443/5		MFS			200 uL				
IC 410-260443/6		MFS				200 uL			
IC 410-260443/7		MFS					200 uL		
ICB 410-260443/8		MFS							
ICV 410-260443/9		MFS							

Batch Notes	
Mobil Phase ID	2732105232233A; 2732105232233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record



410-83412 Chain of Custody

Client Information	Sampler <i>MJ/AB</i>	Lab PM Zanar, Elizabeth M	OC No 10-53399-15024.3
Client Contact Megan Jones	Phone <i>609-413-6328</i>	E-Mail Elizabeth.Zanar@eurofinset.com	Page <i>1 of 2</i>
Company Integral Consulting Inc	PWSID	Analysis Requested	

Address <i>110 M Crater Ave St. 304</i>	Due Date Requested:	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
City <i>Mt Greentown</i>	TAT Requested (days): <i>10-Day Standard</i>	
State, Zip <i>NJ 08057</i>	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Phone: 503-943-3617(Tel)	PO # CF1165 3101.01	
Email <i>gesler@integral-corp.com</i>	WO #	
Project Name MFS/BFS	Project # 41008576	
Site <i>West Deptford, NJ</i>	SSOW#	Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=soils, BT=Tissue, A=Air)	BFS_IDA, MFS_IDA	Special Instructions/Note:
MW-110S	5-9-22	1113	G	Water	NUN	
MW-110D		1210		Water		
MW-112S		1438		Water		
MW-112D		1445		Water		
EB-05092022		1150		Water		
AB_05092022		1145		Water		
MW-109S-PDB	5-9-22	1000	G	Water	NUN	
MW-111S-PDB		1020		Water		
MW-111D-PDB		1030		Water		
MW-101S	5-10-22	1040		Water	NUN	
MW-101D		11545		Water		

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
---	--

Deliverable Requested: I, II, III, IV, Other (specify) *WSDPE Full*

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by <i>Megan Jones</i>	Date/Time <i>5-10-22 10:35</i>	Company Integral	Received by <i>Marko</i>	Date/Time <i>5-10-22 15:30</i>	Company Lanc
Relinquished by <i>Marko</i>	Date/Time <i>5-10-22 17:50</i>	Company Lanc	Received by <i>Marko</i>	Date/Time <i>5/10/22 10:29</i>	Company Lanc

Custody Seals Intact: Yes No Custody Seal No.: *not present*

Cooler Temperature(s) °C and Other Remarks: *2.1-4.0°C*

12

Chain of Custody Record

Client Information		Sampler <i>Megan Jones</i>		Lab PM Zanar, Elizabeth M		Carrier Tracking No(s)		COC No 410-53399-15024 4	
Client Contact Megan Jones		Phone <i>609-413-6328</i>		E-Mail Elizabeth.Zanar@eurofinset.com		State of Origin		Page Page 20 2 of 2	
Company Integral Consulting Inc		PWSID		Analysis Requested		Job #			
Address <i>110 Montz Ave. SF. 304</i> 923 Haddonfield Road Suite 300		Due Date Requested:		INTEGRAL CONSULTING INC 110 MONTZ AVE CHERRY HILL NJ 08007 503-943-3617 Gester@integral-conv.com		41008576 WEST DEPT FORD NJ		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
City <i>Cherry Hill Moorestown, NJ 08007</i>		TAT Requested (days): <i>10-Day Standard</i>							
State, Zip <i>NJ 08002</i>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone 503-943-3617(Tel)		PO # CF1165 3101 01							
Email info@integral-conv.com <i>Gester@integral-conv.com</i>		WO #		Project # 41008576		SSOW#		Other:	
Project Name MFS/BFS		Site <i>West Deptford, NJ</i>							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	BFS_IDA	MFS_IDA	Special Instructions/Note:	
				Preservation Code					
<i>MW-101D Extra Volume</i>		<i>5-10-22</i>	<i>1355</i>	<i>G</i>	<i>Water</i>	<i>NUN</i>	<i>NUN</i>		
<i>EB_05102022</i>		<i>↓</i>	<i>1118</i>	<i>↓</i>	<i>Water</i>	<i>↓</i>	<i>↓</i>		
<i>MW-1095</i>					<i>Water</i>				
<i>MW-1090</i>					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
					<i>Water</i>				
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Deliverable Requested: I, II, III, IV, Other (specify) <i>USDEP Full</i>						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by:		Date	Time	Method of Shipment:					
Relinquished by <i>Megan M. Jones</i>		Date/Time <i>5-10-22 / 1555</i>	Company <i>Integral</i>	Received by <i>MARCO</i>		Date/Time <i>5-10-22 1625</i>	Company <i>LANE</i>		
Relinquished by <i>MARCO</i>		Date/Time <i>5-10-22 1750</i>	Company <i>LANE</i>	Received by <i>LANE</i>		Date/Time	Company		
Relinquished by		Date/Time	Company	Received by <i>LANE</i>		Date/Time <i>5/10/21 Brg</i>	Company <i>LANE</i>		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <i>not present</i>		Cooler Temperature(s) °C and Other Remarks.		<i>2.1 - 4.0 °C</i>			

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 410-83412-1

Login Number: 83412

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Renner, Melissa

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.

ANALYTICAL REPORT

Job Number: 410-83867-1

Job Description: MFS/BFS

For:

Integral Consulting Inc
923 Haddonfield Road
Suite 300
Cherry Hill, NJ 08002
Attention: Erin Palko



Approved for release.
Elizabeth M Zanar
Project Manager
6/3/2022 4:40 PM

Elizabeth M Zanar, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7290
Elizabeth.Zanar@et.eurofinsus.com
06/03/2022

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-83867-1

Job Description: MFS/BFS

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Definitions/Glossary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-83867-1

Receipt

The samples were received on 5/12/2022 4:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.6°C and 5.7°C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-109D (410-83867-2). The container labels list collection time of 16:35, while the COC lists 16:45. The client was contacted, and the lab will follow the information on the COC.

LCMS

Method BFS_IDA: The recovery for target analyte(s) is outside of the QC acceptance limits in the laboratory control spike(s) associated with the following samples: MW-109S (410-83867-1), MW-109D (410-83867-2), MW-124S (410-83867-3), MW-124D (410-83867-4), MW-106S (410-83867-5), MW106D (410-83867-6), DUP1_05112022 (410-83867-7), DUP2_05112022 (410-83867-8), EB_05112022 (410-83867-9), MW-111S (410-83867-10), MW-111D (410-83867-11) and EB_05122022 (410-83867-12). The QC limits are advisory; therefore, the data is reported and results should be considered estimated.

Method MFS_IDA: The recovery for target analyte MFS_N4 is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target MFS_N4 is not detected in the following samples: MW-109S (410-83867-1), MW-109D (410-83867-2), MW-124S (410-83867-3) and MW-124D (410-83867-4), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-109S

Lab Sample ID: 410-83867-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	84	^2 cn	1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	10	cn	0.53	0.18	ng/L	1		BFS	Total/NA
BFS_A3B2	44	*+ cn	0.70	0.18	ng/L	1		BFS	Total/NA
BFS_A4B	9.5	cn	0.35	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	25	cn	0.53	0.070	ng/L	1		BFS	Total/NA
BFS_AB3	330	^2 cn	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	78	^2 cn	0.62	0.26	ng/L	1		BFS	Total/NA
BFS_B4	170	cn	0.97	0.35	ng/L	1		BFS	Total/NA
BFS_A2B3 - DL	78	cn	9.7	3.5	ng/L	10		BFS	Total/NA
MFS_M3	7.7	cn	0.97	0.19	ng/L	1		MFS	Total/NA
MFS_N3	12	cn	0.97	0.19	ng/L	1		MFS	Total/NA
MFS_N2 - DL	640	cn	9.7	1.9	ng/L	10		MFS	Total/NA

Client Sample ID: MW-109D

Lab Sample ID: 410-83867-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	1.6	cn	0.85	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-124S

Lab Sample ID: 410-83867-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	2.0	^2 cn	1.3	0.38	ng/L	1		BFS	Total/NA
BFS_AB2	0.76	cn	0.56	0.075	ng/L	1		BFS	Total/NA
BFS_AB3	3.9	^2 cn	1.4	0.38	ng/L	1		BFS	Total/NA
BFS_B3	2.0	^2 cn	0.66	0.28	ng/L	1		BFS	Total/NA
BFS_B4	0.60	J cn	1.0	0.38	ng/L	1		BFS	Total/NA
MFS_N2	42	cn	0.93	0.19	ng/L	1		MFS	Total/NA
MFS_M3	0.69	J cn	0.93	0.19	ng/L	1		MFS	Total/NA

Client Sample ID: MW-124D

Lab Sample ID: 410-83867-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	3.0	cn	0.85	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-106S

Lab Sample ID: 410-83867-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	0.75	J F1	0.95	0.19	ng/L	1		MFS	Total/NA

Client Sample ID: MW106D

Lab Sample ID: 410-83867-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.39	J F1 ^2 cn	1.1	0.33	ng/L	1		BFS	Total/NA
BFS_AB3	0.57	J F1 ^2 cn	1.2	0.33	ng/L	1		BFS	Total/NA
MFS_N2	65	F1	0.85	0.17	ng/L	1		MFS	Total/NA
MFS_M3	16		0.85	0.17	ng/L	1		MFS	Total/NA
MFS_N3	40	F1	0.85	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: DUP1_05112022

Lab Sample ID: 410-83867-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.43	J ^2 cn	1.2	0.33	ng/L	1		BFS	Total/NA
BFS_AB3	0.68	J ^2 cn	1.2	0.33	ng/L	1		BFS	Total/NA
MFS_N2	77		0.83	0.17	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: DUP1_05112022 (Continued)

Lab Sample ID: 410-83867-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_M3	18		0.83	0.17	ng/L	1		MFS	Total/NA
MFS_N3	44		0.83	0.17	ng/L	1		MFS	Total/NA
MFS_M4	0.48	J	0.83	0.41	ng/L	1		MFS	Total/NA
MFS_N4	1.3	J	1.7	0.83	ng/L	1		MFS	Total/NA

Client Sample ID: DUP2_05112022

Lab Sample ID: 410-83867-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	1.2		0.96	0.19	ng/L	1		MFS	Total/NA
MFS_N3	0.40	J	0.96	0.19	ng/L	1		MFS	Total/NA

Client Sample ID: EB_05112022

Lab Sample ID: 410-83867-9

No Detections.

Client Sample ID: MW-111S

Lab Sample ID: 410-83867-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	120	^2 cn	1.1	0.32	ng/L	1		BFS	Total/NA
BFS_A2B3	22	cn	0.89	0.32	ng/L	1		BFS	Total/NA
BFS_A3B	23	cn	0.49	0.16	ng/L	1		BFS	Total/NA
BFS_A3B2	20	*+ cn	0.65	0.16	ng/L	1		BFS	Total/NA
BFS_A4B	9.6	cn	0.32	0.16	ng/L	1		BFS	Total/NA
BFS_AB2	23	cn	0.49	0.065	ng/L	1		BFS	Total/NA
BFS_AB3	180	^2 cn	1.2	0.32	ng/L	1		BFS	Total/NA
BFS_B3	84	^2 cn	0.57	0.24	ng/L	1		BFS	Total/NA
BFS_B4	50	cn	0.89	0.32	ng/L	1		BFS	Total/NA
MFS_M3	29		0.86	0.17	ng/L	1		MFS	Total/NA
MFS_N3	11		0.86	0.17	ng/L	1		MFS	Total/NA
MFS_N2 - DL	1100		8.6	1.7	ng/L	10		MFS	Total/NA

Client Sample ID: MW-111D

Lab Sample ID: 410-83867-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	31	^2 cn	1.1	0.33	ng/L	1		BFS	Total/NA
BFS_A2B3	32	cn	0.90	0.33	ng/L	1		BFS	Total/NA
BFS_A3B	2.7	cn	0.49	0.16	ng/L	1		BFS	Total/NA
BFS_A3B2	16	*+ cn	0.65	0.16	ng/L	1		BFS	Total/NA
BFS_A4B	3.0	cn	0.33	0.16	ng/L	1		BFS	Total/NA
BFS_AB2	7.0	cn	0.49	0.065	ng/L	1		BFS	Total/NA
BFS_AB3	150	^2 cn	1.2	0.33	ng/L	1		BFS	Total/NA
BFS_B3	25	^2 cn	0.57	0.25	ng/L	1		BFS	Total/NA
BFS_B4	76	cn	0.90	0.33	ng/L	1		BFS	Total/NA
MFS_M3	1.9		0.82	0.16	ng/L	1		MFS	Total/NA
MFS_N2 - DL	240		8.2	1.6	ng/L	10		MFS	Total/NA

Client Sample ID: EB_05122022

Lab Sample ID: 410-83867-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-109S

Lab Sample ID: 410-83867-1

Date Collected: 05/10/22 16:35

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	84	^2 cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 18:20	1
BFS_A3B	10	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 18:20	1
BFS_A3B2	44	*+ cn	0.70	0.18	ng/L		05/17/22 09:01	06/01/22 18:20	1
BFS_A4B	9.5	cn	0.35	0.18	ng/L		05/17/22 09:01	06/01/22 18:20	1
BFS_AB2	25	cn	0.53	0.070	ng/L		05/17/22 09:01	06/01/22 18:20	1
BFS_AB3	330	^2 cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 18:20	1
BFS_B3	78	^2 cn	0.62	0.26	ng/L		05/17/22 09:01	06/01/22 18:20	1
BFS_B4	170	cn	0.97	0.35	ng/L		05/17/22 09:01	06/01/22 18:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80	cn	50 - 150				05/17/22 09:01	06/01/22 18:20	1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B3	78	cn	9.7	3.5	ng/L		05/17/22 09:01	06/01/22 18:33	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101	cn	50 - 150				05/17/22 09:01	06/01/22 18:33	10

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	7.7	cn	0.97	0.19	ng/L		05/17/22 09:10	05/24/22 13:20	1
MFS_N3	12	cn	0.97	0.19	ng/L		05/17/22 09:10	05/24/22 13:20	1
MFS_M4	ND	cn	0.97	0.49	ng/L		05/17/22 09:10	05/24/22 13:20	1
MFS_N4	ND	cn	1.9	0.97	ng/L		05/17/22 09:10	05/24/22 13:20	1
MFS_N5	ND	cn	2.9	1.9	ng/L		05/17/22 09:10	05/24/22 13:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	78	cn	50 - 150				05/17/22 09:10	05/24/22 13:20	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	640	cn	9.7	1.9	ng/L		05/17/22 09:10	05/31/22 18:36	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	73	cn	50 - 150				05/17/22 09:10	05/31/22 18:36	10

Client Sample ID: MW-109D

Lab Sample ID: 410-83867-2

Date Collected: 05/10/22 16:45

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.3	0.37	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_A2B3	ND	cn	1.0	0.37	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_A3B	ND	cn	0.55	0.18	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_A3B2	ND	*+ cn	0.74	0.18	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_A4B	ND	cn	0.37	0.18	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_AB2	ND	cn	0.55	0.074	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_AB3	ND	cn	1.4	0.37	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_B3	ND	cn	0.64	0.28	ng/L		05/17/22 09:01	06/01/22 18:45	1
BFS_B4	ND	cn	1.0	0.37	ng/L		05/17/22 09:01	06/01/22 18:45	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-109D

Lab Sample ID: 410-83867-2

Date Collected: 05/10/22 16:45

Matrix: Water

Date Received: 05/12/22 16:54

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	76	cn	50 - 150	05/17/22 09:01	06/01/22 18:45	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1.6	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 13:33	1
MFS_M3	ND	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 13:33	1
MFS_N3	ND	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 13:33	1
MFS_M4	ND	cn	0.85	0.43	ng/L		05/17/22 09:10	05/24/22 13:33	1
MFS_N4	ND	cn	1.7	0.85	ng/L		05/17/22 09:10	05/24/22 13:33	1
MFS_N5	ND	cn	2.6	1.7	ng/L		05/17/22 09:10	05/24/22 13:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80	cn	50 - 150	05/17/22 09:10	05/24/22 13:33	1

Client Sample ID: MW-124S

Lab Sample ID: 410-83867-3

Date Collected: 05/11/22 10:10

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	2.0	^2 cn	1.3	0.38	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_A2B3	ND	cn	1.0	0.38	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_A3B	ND	cn	0.56	0.19	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_A3B2	ND	*+ cn	0.75	0.19	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_A4B	ND	cn	0.38	0.19	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_AB2	0.76	cn	0.56	0.075	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_AB3	3.9	^2 cn	1.4	0.38	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_B3	2.0	^2 cn	0.66	0.28	ng/L		05/17/22 09:01	06/01/22 18:58	1
BFS_B4	0.60	J cn	1.0	0.38	ng/L		05/17/22 09:01	06/01/22 18:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	84	cn	50 - 150	05/17/22 09:01	06/01/22 18:58	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	42	cn	0.93	0.19	ng/L		05/17/22 09:10	05/24/22 13:46	1
MFS_M3	0.69	J cn	0.93	0.19	ng/L		05/17/22 09:10	05/24/22 13:46	1
MFS_N3	ND	cn	0.93	0.19	ng/L		05/17/22 09:10	05/24/22 13:46	1
MFS_M4	ND	cn	0.93	0.46	ng/L		05/17/22 09:10	05/24/22 13:46	1
MFS_N4	ND	cn	1.9	0.93	ng/L		05/17/22 09:10	05/24/22 13:46	1
MFS_N5	ND	cn	2.8	1.9	ng/L		05/17/22 09:10	05/24/22 13:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90	cn	50 - 150	05/17/22 09:10	05/24/22 13:46	1

Client Sample ID: MW-124D

Lab Sample ID: 410-83867-4

Date Collected: 05/11/22 10:10

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 19:11	1
BFS_A2B3	ND	cn	0.98	0.35	ng/L		05/17/22 09:01	06/01/22 19:11	1
BFS_A3B	ND	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 19:11	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-124D

Lab Sample ID: 410-83867-4

Date Collected: 05/11/22 10:10

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A3B2	ND	*+ cn	0.71	0.18	ng/L		05/17/22 09:01	06/01/22 19:11	1
BFS_A4B	ND	cn	0.35	0.18	ng/L		05/17/22 09:01	06/01/22 19:11	1
BFS_AB2	ND	cn	0.53	0.071	ng/L		05/17/22 09:01	06/01/22 19:11	1
BFS_AB3	ND	cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 19:11	1
BFS_B3	ND	cn	0.62	0.27	ng/L		05/17/22 09:01	06/01/22 19:11	1
BFS_B4	ND	cn	0.98	0.35	ng/L		05/17/22 09:01	06/01/22 19:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	74	cn	50 - 150				05/17/22 09:01	06/01/22 19:11	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	3.0	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 13:58	1
MFS_M3	ND	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 13:58	1
MFS_N3	ND	cn	0.85	0.17	ng/L		05/17/22 09:10	05/24/22 13:58	1
MFS_M4	ND	cn	0.85	0.43	ng/L		05/17/22 09:10	05/24/22 13:58	1
MFS_N4	ND	cn	1.7	0.85	ng/L		05/17/22 09:10	05/24/22 13:58	1
MFS_N5	ND	cn	2.6	1.7	ng/L		05/17/22 09:10	05/24/22 13:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83	cn	50 - 150				05/17/22 09:10	05/24/22 13:58	1

Client Sample ID: MW-106S

Lab Sample ID: 410-83867-5

Date Collected: 05/11/22 13:35

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	F1 cn	1.3	0.38	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_A2B3	ND	F1 cn	1.0	0.38	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_A3B	ND	F1 cn	0.57	0.19	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_A3B2	ND	F1 *+ cn	0.76	0.19	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_A4B	ND	F1 cn	0.38	0.19	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_AB2	ND	F1 cn	0.57	0.076	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_AB3	ND	F1 cn	1.4	0.38	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_B3	ND	F1 cn	0.67	0.29	ng/L		05/17/22 09:01	06/01/22 19:23	1
BFS_B4	ND	F1 cn	1.0	0.38	ng/L		05/17/22 09:01	06/01/22 19:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	79	cn	50 - 150				05/17/22 09:01	06/01/22 19:23	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	0.75	J F1	0.95	0.19	ng/L		05/17/22 09:10	05/31/22 18:49	1
MFS_M3	ND	F1	0.95	0.19	ng/L		05/17/22 09:10	05/31/22 18:49	1
MFS_N3	ND	F1	0.95	0.19	ng/L		05/17/22 09:10	05/31/22 18:49	1
MFS_M4	ND	F1	0.95	0.48	ng/L		05/17/22 09:10	05/31/22 18:49	1
MFS_N4	ND	F1	1.9	0.95	ng/L		05/17/22 09:10	05/31/22 18:49	1
MFS_N5	ND		2.9	1.9	ng/L		05/17/22 09:10	05/31/22 18:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	64		50 - 150				05/17/22 09:10	05/31/22 18:49	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW106D

Lab Sample ID: 410-83867-6

Date Collected: 05/11/22 13:05

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.39	J F1 ^2 cn	1.1	0.33	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_A2B3	ND	F1 cn	0.90	0.33	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_A3B	ND	F1 cn	0.49	0.16	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_A3B2	ND	*+ F1 cn	0.66	0.16	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_A4B	ND	F1 cn	0.33	0.16	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_AB2	ND	F1 cn	0.49	0.066	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_AB3	0.57	J F1 ^2 cn	1.2	0.33	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_B3	ND	F1 cn	0.57	0.25	ng/L		05/27/22 13:24	06/01/22 21:31	1
BFS_B4	ND	F1 cn	0.90	0.33	ng/L		05/27/22 13:24	06/01/22 21:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97	cn	50 - 150				05/27/22 13:24	06/01/22 21:31	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	65	F1	0.85	0.17	ng/L		05/27/22 13:26	05/31/22 20:17	1
MFS_M3	16		0.85	0.17	ng/L		05/27/22 13:26	05/31/22 20:17	1
MFS_N3	40	F1	0.85	0.17	ng/L		05/27/22 13:26	05/31/22 20:17	1
MFS_M4	ND		0.85	0.42	ng/L		05/27/22 13:26	05/31/22 20:17	1
MFS_N4	ND		1.7	0.85	ng/L		05/27/22 13:26	05/31/22 20:17	1
MFS_N5	ND		2.5	1.7	ng/L		05/27/22 13:26	05/31/22 20:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		50 - 150				05/27/22 13:26	05/31/22 20:17	1

Client Sample ID: DUP1_05112022

Lab Sample ID: 410-83867-7

Date Collected: 05/11/22 00:00

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.43	J ^2 cn	1.2	0.33	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_A2B3	ND	cn	0.91	0.33	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_A3B	ND	cn	0.50	0.17	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_A3B2	ND	*+ cn	0.67	0.17	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_A4B	ND	cn	0.33	0.17	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_AB2	ND	cn	0.50	0.067	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_AB3	0.68	J ^2 cn	1.2	0.33	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_B3	ND	cn	0.58	0.25	ng/L		05/17/22 09:01	06/01/22 20:15	1
BFS_B4	ND	cn	0.91	0.33	ng/L		05/17/22 09:01	06/01/22 20:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	84	cn	50 - 150				05/17/22 09:01	06/01/22 20:15	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	77		0.83	0.17	ng/L		05/17/22 09:10	05/31/22 19:27	1
MFS_M3	18		0.83	0.17	ng/L		05/17/22 09:10	05/31/22 19:27	1
MFS_N3	44		0.83	0.17	ng/L		05/17/22 09:10	05/31/22 19:27	1
MFS_M4	0.48	J	0.83	0.41	ng/L		05/17/22 09:10	05/31/22 19:27	1
MFS_N4	1.3	J	1.7	0.83	ng/L		05/17/22 09:10	05/31/22 19:27	1
MFS_N5	ND		2.5	1.7	ng/L		05/17/22 09:10	05/31/22 19:27	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: DUP1_05112022

Lab Sample ID: 410-83867-7

Date Collected: 05/11/22 00:00

Matrix: Water

Date Received: 05/12/22 16:54

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	65		50 - 150	05/17/22 09:10	05/31/22 19:27	1

Client Sample ID: DUP2_05112022

Lab Sample ID: 410-83867-8

Date Collected: 05/11/22 00:00

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.3	0.37	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_A2B3	ND	cn	1.0	0.37	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_A3B	ND	cn	0.56	0.19	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_A3B2	ND	*+ cn	0.75	0.19	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_A4B	ND	cn	0.37	0.19	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_AB2	ND	cn	0.56	0.075	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_AB3	ND	cn	1.4	0.37	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_B3	ND	cn	0.65	0.28	ng/L		05/17/22 09:01	06/01/22 20:27	1
BFS_B4	ND	cn	1.0	0.37	ng/L		05/17/22 09:01	06/01/22 20:27	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	65	cn	50 - 150	05/17/22 09:01	06/01/22 20:27	1			

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1.2		0.96	0.19	ng/L		05/17/22 09:10	05/24/22 15:14	1
MFS_M3	ND		0.96	0.19	ng/L		05/17/22 09:10	05/24/22 15:14	1
MFS_N3	0.40	J	0.96	0.19	ng/L		05/17/22 09:10	05/24/22 15:14	1
MFS_M4	ND		0.96	0.48	ng/L		05/17/22 09:10	05/24/22 15:14	1
MFS_N4	ND		1.9	0.96	ng/L		05/17/22 09:10	05/24/22 15:14	1
MFS_N5	ND		2.9	1.9	ng/L		05/17/22 09:10	05/24/22 15:14	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	65		50 - 150	05/17/22 09:10	05/24/22 15:14	1			

Client Sample ID: EB_05112022

Lab Sample ID: 410-83867-9

Date Collected: 05/11/22 12:45

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.2	0.35	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_A2B3	ND	cn	0.97	0.35	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_A3B	ND	cn	0.53	0.18	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_A3B2	ND	*+ cn	0.70	0.18	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_A4B	ND	cn	0.35	0.18	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_AB2	ND	cn	0.53	0.070	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_AB3	ND	cn	1.3	0.35	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_B3	ND	cn	0.62	0.26	ng/L		05/17/22 09:01	06/01/22 20:40	1
BFS_B4	ND	cn	0.97	0.35	ng/L		05/17/22 09:01	06/01/22 20:40	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	83	cn	50 - 150	05/17/22 09:01	06/01/22 20:40	1			

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: EB_05112022

Lab Sample ID: 410-83867-9

Date Collected: 05/11/22 12:45

Matrix: Water

Date Received: 05/12/22 16:54

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.96	0.19	ng/L		05/17/22 09:10	05/24/22 15:27	1
MFS_M3	ND		0.96	0.19	ng/L		05/17/22 09:10	05/24/22 15:27	1
MFS_N3	ND		0.96	0.19	ng/L		05/17/22 09:10	05/24/22 15:27	1
MFS_M4	ND		0.96	0.48	ng/L		05/17/22 09:10	05/24/22 15:27	1
MFS_N4	ND		1.9	0.96	ng/L		05/17/22 09:10	05/24/22 15:27	1
MFS_N5	ND		2.9	1.9	ng/L		05/17/22 09:10	05/24/22 15:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	67		50 - 150				05/17/22 09:10	05/24/22 15:27	1

Client Sample ID: MW-111S

Lab Sample ID: 410-83867-10

Date Collected: 05/12/22 10:35

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	120	^2 cn	1.1	0.32	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_A2B3	22	cn	0.89	0.32	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_A3B	23	cn	0.49	0.16	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_A3B2	20	*+ cn	0.65	0.16	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_A4B	9.6	cn	0.32	0.16	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_AB2	23	cn	0.49	0.065	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_AB3	180	^2 cn	1.2	0.32	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_B3	84	^2 cn	0.57	0.24	ng/L		05/27/22 13:24	06/01/22 22:08	1
BFS_B4	50	cn	0.89	0.32	ng/L		05/27/22 13:24	06/01/22 22:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	115	cn	50 - 150				05/27/22 13:24	06/01/22 22:08	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	29		0.86	0.17	ng/L		05/27/22 13:26	05/31/22 20:55	1
MFS_N3	11		0.86	0.17	ng/L		05/27/22 13:26	05/31/22 20:55	1
MFS_M4	ND		0.86	0.43	ng/L		05/27/22 13:26	05/31/22 20:55	1
MFS_N4	ND		1.7	0.86	ng/L		05/27/22 13:26	05/31/22 20:55	1
MFS_N5	ND		2.6	1.7	ng/L		05/27/22 13:26	05/31/22 20:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 150				05/27/22 13:26	05/31/22 20:55	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1100		8.6	1.7	ng/L		05/27/22 13:26	06/01/22 10:44	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 150				05/27/22 13:26	06/01/22 10:44	10

Client Sample ID: MW-111D

Lab Sample ID: 410-83867-11

Date Collected: 05/12/22 11:10

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	31	^2 cn	1.1	0.33	ng/L		05/27/22 13:24	06/01/22 22:21	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-111D

Lab Sample ID: 410-83867-11

Date Collected: 05/12/22 11:10

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B3	32	cn	0.90	0.33	ng/L		05/27/22 13:24	06/01/22 22:21	1
BFS_A3B	2.7	cn	0.49	0.16	ng/L		05/27/22 13:24	06/01/22 22:21	1
BFS_A3B2	16	*+ cn	0.65	0.16	ng/L		05/27/22 13:24	06/01/22 22:21	1
BFS_A4B	3.0	cn	0.33	0.16	ng/L		05/27/22 13:24	06/01/22 22:21	1
BFS_AB2	7.0	cn	0.49	0.065	ng/L		05/27/22 13:24	06/01/22 22:21	1
BFS_AB3	150	^2 cn	1.2	0.33	ng/L		05/27/22 13:24	06/01/22 22:21	1
BFS_B3	25	^2 cn	0.57	0.25	ng/L		05/27/22 13:24	06/01/22 22:21	1
BFS_B4	76	cn	0.90	0.33	ng/L		05/27/22 13:24	06/01/22 22:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99	cn	50 - 150				05/27/22 13:24	06/01/22 22:21	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	1.9		0.82	0.16	ng/L		05/27/22 13:26	05/31/22 21:08	1
MFS_N3	ND		0.82	0.16	ng/L		05/27/22 13:26	05/31/22 21:08	1
MFS_M4	ND		0.82	0.41	ng/L		05/27/22 13:26	05/31/22 21:08	1
MFS_N4	ND		1.6	0.82	ng/L		05/27/22 13:26	05/31/22 21:08	1
MFS_N5	ND		2.5	1.6	ng/L		05/27/22 13:26	05/31/22 21:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 150				05/27/22 13:26	05/31/22 21:08	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	240		8.2	1.6	ng/L		05/27/22 13:26	06/01/22 10:56	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		50 - 150				05/27/22 13:26	06/01/22 10:56	10

Client Sample ID: EB_05122022

Lab Sample ID: 410-83867-12

Date Collected: 05/12/22 09:00

Matrix: Water

Date Received: 05/12/22 16:54

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	cn	1.4	0.39	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_A2B3	ND	cn	1.1	0.39	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_A3B	ND	cn	0.58	0.19	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_A3B2	ND	*+ cn	0.77	0.19	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_A4B	ND	cn	0.39	0.19	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_AB2	ND	cn	0.58	0.077	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_AB3	ND	cn	1.4	0.39	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_B3	ND	cn	0.68	0.29	ng/L		05/27/22 13:24	06/01/22 22:34	1
BFS_B4	ND	cn	1.1	0.39	ng/L		05/27/22 13:24	06/01/22 22:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	105	cn	50 - 150				05/27/22 13:24	06/01/22 22:34	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.94	0.19	ng/L		05/27/22 13:26	05/31/22 21:20	1
MFS_M3	ND		0.94	0.19	ng/L		05/27/22 13:26	05/31/22 21:20	1
MFS_N3	ND		0.94	0.19	ng/L		05/27/22 13:26	05/31/22 21:20	1

Client Sample Results

Client: Integral Consulting Inc
 Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: EB_05122022

Lab Sample ID: 410-83867-12

Date Collected: 05/12/22 09:00

Matrix: Water

Date Received: 05/12/22 16:54

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M4	ND		0.94	0.47	ng/L		05/27/22 13:26	05/31/22 21:20	1
MFS_N4	ND		1.9	0.94	ng/L		05/27/22 13:26	05/31/22 21:20	1
MFS_N5	ND		2.8	1.9	ng/L		05/27/22 13:26	05/31/22 21:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C3 HFPO-DA	116		50 - 150				05/27/22 13:26	05/31/22 21:20	1

Default Detection Limits

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
BFS_A2B2	1.4	0.40	ng/L
BFS_A2B3	1.1	0.40	ng/L
BFS_A3B	0.60	0.20	ng/L
BFS_A3B2	0.80	0.20	ng/L
BFS_A4B	0.40	0.20	ng/L
BFS_AB2	0.60	0.080	ng/L
BFS_AB3	1.5	0.40	ng/L
BFS_B3	0.70	0.30	ng/L
BFS_B4	1.1	0.40	ng/L

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
MFS_M3	1.0	0.20	ng/L
MFS_M4	1.0	0.50	ng/L
MFS_N2	1.0	0.20	ng/L
MFS_N3	1.0	0.20	ng/L
MFS_N4	2.0	1.0	ng/L
MFS_N5	3.0	2.0	ng/L

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-83867-1	MW-109S	80 cn
410-83867-1 - DL	MW-109S	101 cn
410-83867-2	MW-109D	76 cn
410-83867-3	MW-124S	84 cn
410-83867-4	MW-124D	74 cn
410-83867-5	MW-106S	79 cn
410-83867-5 MS	MW-106S	77
410-83867-5 MSD	MW-106S	73
410-83867-6	MW106D	97 cn
410-83867-6 MS	MW106D	99
410-83867-6 MSD	MW106D	95
410-83867-7	DUP1_05112022	84 cn
410-83867-8	DUP2_05112022	65 cn
410-83867-9	EB_05112022	83 cn
410-83867-10	MW-111S	115 cn
410-83867-11	MW-111D	99 cn
410-83867-12	EB_05122022	105 cn
LCS 410-256031/2-A	Lab Control Sample	81
LCS 410-259819/2-A	Lab Control Sample	116
MB 410-256031/1-A	Method Blank	94
MB 410-259819/1-A	Method Blank	117

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-83867-1	MW-109S	78 cn
410-83867-1 - DL	MW-109S	73 cn
410-83867-2	MW-109D	80 cn
410-83867-3	MW-124S	90 cn
410-83867-4	MW-124D	83 cn
410-83867-5	MW-106S	64
410-83867-5 MS	MW-106S	65
410-83867-5 MSD	MW-106S	54
410-83867-6	MW106D	92
410-83867-6 MS	MW106D	91
410-83867-6 MSD	MW106D	87
410-83867-7	DUP1_05112022	65
410-83867-8	DUP2_05112022	65
410-83867-9	EB_05112022	67
410-83867-10	MW-111S	91
410-83867-10 - DL	MW-111S	103
410-83867-11	MW-111D	94
410-83867-11 - DL	MW-111D	97
410-83867-12	EB_05122022	116

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)
Matrix: Water **Prep Type: Total/NA**

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
LCS 410-256033/2-A	Lab Control Sample	74
LCS 410-259821/2-A	Lab Control Sample	105
MB 410-256033/1-A	Method Blank	85
MB 410-259821/1-A	Method Blank	108

Surrogate Legend

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-256031/1-A
Matrix: Water
Analysis Batch: 260981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256031

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A2B3	ND		1.1	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A3B	ND		0.60	0.20	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A3B2	ND		0.80	0.20	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_A4B	ND		0.40	0.20	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_AB2	ND		0.60	0.080	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_AB3	ND		1.5	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_B3	ND		0.70	0.30	ng/L		05/17/22 09:01	06/01/22 14:46	1
BFS_B4	ND		1.1	0.40	ng/L		05/17/22 09:01	06/01/22 14:46	1
		MB MB	Limits			D	Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier							
13C3 HFPO-DA	94		50 - 150				05/17/22 09:01	06/01/22 14:46	1

Lab Sample ID: LCS 410-256031/2-A
Matrix: Water
Analysis Batch: 260981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B3	4.72	5.59		ng/L		119	70 - 130	
BFS_A3B	35.8	39.7		ng/L		111	70 - 130	
BFS_A3B2	47.2	72.5	*+	ng/L		154	70 - 130	
BFS_A4B	19.8	23.9		ng/L		121	70 - 130	
BFS_AB2	32.1	35.9		ng/L		112	70 - 130	
BFS_AB3	268	329		ng/L		123	70 - 130	
BFS_B3	114	138		ng/L		121	70 - 130	
BFS_B4	62.2	75.4		ng/L		121	70 - 130	
		LCS LCS	Limits			D	%Rec	Limits
Isotope Dilution	%Recovery	Qualifier						
13C3 HFPO-DA	81		50 - 150					

Lab Sample ID: 410-83867-5 MS
Matrix: Water
Analysis Batch: 260981

Client Sample ID: MW-106S
Prep Type: Total/NA
Prep Batch: 256031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B3	ND	F1 cn	4.00	9.65	F1	ng/L		241	70 - 130	
BFS_A3B	ND	F1 cn	30.4	95.6	F1	ng/L		314	70 - 130	
BFS_A3B2	ND	F1 *+ cn	40.0	101	F1	ng/L		253	70 - 130	
BFS_A4B	ND	F1 cn	16.8	42.3	F1	ng/L		252	70 - 130	
BFS_AB2	ND	F1 cn	27.2	90.4	F1	ng/L		332	70 - 130	
BFS_AB3	ND	F1 cn	227	636	F1	ng/L		280	70 - 130	
BFS_B3	ND	F1 cn	96.8	263	F1	ng/L		271	70 - 130	
BFS_B4	ND	F1 cn	52.8	143	F1	ng/L		271	70 - 130	
		MS MS	Limits			D	%Rec	Limits		
Isotope Dilution	%Recovery	Qualifier								
13C3 HFPO-DA	77		50 - 150							

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-83867-5 MSD

Matrix: Water

Analysis Batch: 260981

Client Sample ID: MW-106S

Prep Type: Total/NA

Prep Batch: 256031

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
BFS_A2B2	ND	F1 cn	212	500	F1	ng/L		236	70 - 130	10	30	
BFS_A2B3	ND	F1 cn	4.00	10.9	F1	ng/L		272	70 - 130	12	30	
BFS_A3B	ND	F1 cn	30.4	107	F1	ng/L		350	70 - 130	11	30	
BFS_A3B2	ND	F1 *+ cn	40.0	110	F1	ng/L		274	70 - 130	8	30	
BFS_A4B	ND	F1 cn	16.8	45.4	F1	ng/L		270	70 - 130	7	30	
BFS_AB2	ND	F1 cn	27.2	96.3	F1	ng/L		354	70 - 130	6	30	
BFS_AB3	ND	F1 cn	227	641	F1	ng/L		282	70 - 130	1	30	
BFS_B3	ND	F1 cn	96.9	294	F1	ng/L		303	70 - 130	11	30	
BFS_B4	ND	F1 cn	52.9	150	F1	ng/L		284	70 - 130	5	30	
			MSD	MSD								
			%Recovery	Qualifier	Limits							
<i>Isotope Dilution</i>			73		50 - 150							
13C3 HFPO-DA												

Lab Sample ID: MB 410-259819/1-A

Matrix: Water

Analysis Batch: 260981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 259819

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_A2B3	ND		1.1	0.40	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_A3B	ND		0.60	0.20	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_A3B2	ND		0.80	0.20	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_A4B	ND		0.40	0.20	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_AB2	ND		0.60	0.080	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_AB3	ND		1.5	0.40	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_B3	ND		0.70	0.30	ng/L		05/27/22 13:24	06/01/22 21:05	1
BFS_B4	ND		1.1	0.40	ng/L		05/27/22 13:24	06/01/22 21:05	1
			MB	MB					
			%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
<i>Isotope Dilution</i>			117		50 - 150	05/27/22 13:24	06/01/22 21:05	1	
13C3 HFPO-DA									

Lab Sample ID: LCS 410-259819/2-A

Matrix: Water

Analysis Batch: 260981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 259819

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
BFS_A2B2	250	260		ng/L		104	70 - 130	
BFS_A2B3	4.72	4.86		ng/L		103	70 - 130	
BFS_A3B	35.8	34.5		ng/L		96	70 - 130	
BFS_A3B2	47.2	64.7	*+	ng/L		137	70 - 130	
BFS_A4B	19.8	20.8		ng/L		105	70 - 130	
BFS_AB2	32.1	30.5		ng/L		95	70 - 130	
BFS_AB3	268	283		ng/L		106	70 - 130	
BFS_B3	114	117		ng/L		102	70 - 130	
BFS_B4	62.2	68.3		ng/L		110	70 - 130	
			LCS	LCS				
			%Recovery	Qualifier	Limits			
<i>Isotope Dilution</i>			116		50 - 150			
13C3 HFPO-DA								

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-83867-6 MS

Matrix: Water

Analysis Batch: 260981

Client Sample ID: MW106D

Prep Type: Total/NA

Prep Batch: 259819

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
BFS_A2B2	0.39	J F1 ^2 cn	233	352	F1	ng/L		151		70 - 130
BFS_A2B3	ND	F1 cn	4.39	7.79	F1	ng/L		177		70 - 130
BFS_A3B	ND	F1 cn	33.4	74.5	F1	ng/L		223		70 - 130
BFS_A3B2	ND	*+ F1 cn	43.9	77.5	F1	ng/L		177		70 - 130
BFS_A4B	ND	F1 cn	18.4	32.5	F1	ng/L		176		70 - 130
BFS_AB2	ND	F1 cn	29.9	70.2	F1	ng/L		235		70 - 130
BFS_AB3	0.57	J F1 ^2 cn	249	458	F1	ng/L		183		70 - 130
BFS_B3	ND	F1 cn	106	211	F1	ng/L		199		70 - 130
BFS_B4	ND	F1 cn	58.0	103	F1	ng/L		178		70 - 130
		MS MS								
Isotope Dilution		%Recovery	Qualifier	Limits						
13C3 HFPO-DA		99		50 - 150						

Lab Sample ID: 410-83867-6 MSD

Matrix: Water

Analysis Batch: 260981

Client Sample ID: MW106D

Prep Type: Total/NA

Prep Batch: 259819

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
BFS_A2B2	0.39	J F1 ^2 cn	235	381	F1	ng/L		162		70 - 130	8	30
BFS_A2B3	ND	F1 cn	4.43	7.75	F1	ng/L		175		70 - 130	0	30
BFS_A3B	ND	F1 cn	33.7	80.7	F1	ng/L		240		70 - 130	8	30
BFS_A3B2	ND	*+ F1 cn	44.3	86.2	F1	ng/L		194		70 - 130	11	30
BFS_A4B	ND	F1 cn	18.6	34.0	F1	ng/L		183		70 - 130	5	30
BFS_AB2	ND	F1 cn	30.1	73.5	F1	ng/L		244		70 - 130	5	30
BFS_AB3	0.57	J F1 ^2 cn	252	492	F1	ng/L		195		70 - 130	7	30
BFS_B3	ND	F1 cn	107	222	F1	ng/L		207		70 - 130	5	30
BFS_B4	ND	F1 cn	58.5	107	F1	ng/L		182		70 - 130	3	30
		MSD MSD										
Isotope Dilution		%Recovery	Qualifier	Limits								
13C3 HFPO-DA		95		50 - 150								

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-256033/1-A

Matrix: Water

Analysis Batch: 258462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 256033

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_M3	ND		1.0	0.20	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_N3	ND		1.0	0.20	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_M4	ND		1.0	0.50	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_N4	ND		2.0	1.0	ng/L		05/17/22 09:10	05/24/22 10:10	1
MFS_N5	ND		3.0	2.0	ng/L		05/17/22 09:10	05/24/22 10:10	1

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Isotope Dilution	MB MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA		85		50 - 150	05/17/22 09:10	05/24/22 10:10	1

Lab Sample ID: LCS 410-256033/2-A
Matrix: Water
Analysis Batch: 260445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
MFS_N2	40.4	45.5		ng/L		113	70 - 130
MFS_M3	40.4	44.8		ng/L		111	70 - 130
MFS_N3	40.1	44.2		ng/L		110	70 - 130
MFS_M4	40.8	43.4		ng/L		106	70 - 130
MFS_N4	40.2	43.2		ng/L		108	70 - 130
MFS_N5	40.0	44.6		ng/L		111	70 - 130

Isotope Dilution	LCS LCS	%Recovery	Qualifier	Limits
13C3 HFPO-DA		74		50 - 150

Lab Sample ID: 410-83867-5 MS
Matrix: Water
Analysis Batch: 260445

Client Sample ID: MW-106S
Prep Type: Total/NA
Prep Batch: 256033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
MFS_N2	0.75	J F1	34.2	142	F1	ng/L		412	70 - 130
MFS_M3	ND	F1	34.3	77.0	F1	ng/L		225	70 - 130
MFS_N3	ND	F1	34.0	112	F1	ng/L		331	70 - 130
MFS_M4	ND	F1	34.6	55.4	F1	ng/L		160	70 - 130
MFS_N4	ND	F1	34.1	52.6	F1	ng/L		154	70 - 130
MFS_N5	ND		34.0	32.0		ng/L		94	70 - 130

Isotope Dilution	MS MS	%Recovery	Qualifier	Limits
13C3 HFPO-DA		65		50 - 150

Lab Sample ID: 410-83867-5 MSD
Matrix: Water
Analysis Batch: 260445

Client Sample ID: MW-106S
Prep Type: Total/NA
Prep Batch: 256033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
MFS_N2	0.75	J F1	34.4	130	F1	ng/L		377	70 - 130	8	30
MFS_M3	ND	F1	34.5	86.9	F1	ng/L		252	70 - 130	12	30
MFS_N3	ND	F1	34.2	127	F1	ng/L		372	70 - 130	12	30
MFS_M4	ND	F1	34.8	61.9	F1	ng/L		178	70 - 130	11	30
MFS_N4	ND	F1	34.3	59.2	F1	ng/L		173	70 - 130	12	30
MFS_N5	ND		34.1	40.6		ng/L		119	70 - 130	23	30

Isotope Dilution	MSD MSD	%Recovery	Qualifier	Limits
13C3 HFPO-DA		54		50 - 150

Lab Sample ID: MB 410-259821/1-A
Matrix: Water
Analysis Batch: 260445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		1.0	0.20	ng/L		05/27/22 13:26	05/31/22 19:52	1

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: MB 410-259821/1-A
Matrix: Water
Analysis Batch: 260445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259821

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_M3	ND		1.0	0.20	ng/L		05/27/22 13:26	05/31/22 19:52	1
MFS_N3	ND		1.0	0.20	ng/L		05/27/22 13:26	05/31/22 19:52	1
MFS_M4	ND		1.0	0.50	ng/L		05/27/22 13:26	05/31/22 19:52	1
MFS_N4	ND		2.0	1.0	ng/L		05/27/22 13:26	05/31/22 19:52	1
MFS_N5	ND		3.0	2.0	ng/L		05/27/22 13:26	05/31/22 19:52	1
MB MB									
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C3 HFPO-DA	108		50 - 150			05/27/22 13:26	05/31/22 19:52	1	

Lab Sample ID: LCS 410-259821/2-A
Matrix: Water
Analysis Batch: 260445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
MFS_N2	40.4	45.7		ng/L		113	70 - 130
MFS_M3	40.4	45.6		ng/L		113	70 - 130
MFS_N3	40.1	45.6		ng/L		114	70 - 130
MFS_M4	40.8	45.4		ng/L		111	70 - 130
MFS_N4	40.2	43.5		ng/L		108	70 - 130
MFS_N5	40.0	44.9		ng/L		112	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	105		50 - 150				

Lab Sample ID: 410-83867-6 MS
Matrix: Water
Analysis Batch: 260445

Client Sample ID: MW106D
Prep Type: Total/NA
Prep Batch: 259821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
MFS_N2	65	F1	37.8	50.1	F1	ng/L		-40	70 - 130
MFS_M3	16		37.9	45.1		ng/L		77	70 - 130
MFS_N3	40	F1	37.6	46.2	F1	ng/L		18	70 - 130
MFS_M4	ND		38.2	47.6		ng/L		125	70 - 130
MFS_N4	ND		37.7	48.4		ng/L		128	70 - 130
MFS_N5	ND		37.5	40.3		ng/L		107	70 - 130
MS MS									
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	91		50 - 150						

Lab Sample ID: 410-83867-6 MSD
Matrix: Water
Analysis Batch: 260445

Client Sample ID: MW106D
Prep Type: Total/NA
Prep Batch: 259821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	
										RPD	Limit
MFS_N2	65	F1	38.8	52.9	F1	ng/L		-32	70 - 130	5	30
MFS_M3	16		38.9	47.2		ng/L		80	70 - 130	4	30
MFS_N3	40	F1	38.5	48.4	F1	ng/L		23	70 - 130	4	30
MFS_M4	ND		39.2	47.7		ng/L		122	70 - 130	0	30
MFS_N4	ND		38.6	45.9		ng/L		119	70 - 130	5	30

QC Sample Results

Client: Integral Consulting Inc
 Project/Site: MFS/BFS

Job ID: 410-83867-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-83867-6 MSD

Matrix: Water

Analysis Batch: 260445

Client Sample ID: MW106D

Prep Type: Total/NA

Prep Batch: 259821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MFS_N5	ND		38.5	29.8		ng/L		77	70 - 130	30	30
		<i>MSD</i>			<i>MSD</i>						
<i>Isotope Dilution</i>		<i>%Recovery</i>									
<i>¹³C3 HFPO-DA</i>		<i>87</i>									<i>50 - 150</i>

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

LCMS

Prep Batch: 256031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-1	MW-109S	Total/NA	Water	3535	
410-83867-1 - DL	MW-109S	Total/NA	Water	3535	
410-83867-2	MW-109D	Total/NA	Water	3535	
410-83867-3	MW-124S	Total/NA	Water	3535	
410-83867-4	MW-124D	Total/NA	Water	3535	
410-83867-5	MW-106S	Total/NA	Water	3535	
410-83867-7	DUP1_05112022	Total/NA	Water	3535	
410-83867-8	DUP2_05112022	Total/NA	Water	3535	
410-83867-9	EB_05112022	Total/NA	Water	3535	
MB 410-256031/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-256031/2-A	Lab Control Sample	Total/NA	Water	3535	
410-83867-5 MS	MW-106S	Total/NA	Water	3535	
410-83867-5 MSD	MW-106S	Total/NA	Water	3535	

Prep Batch: 256033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-1 - DL	MW-109S	Total/NA	Water	3535	
410-83867-1	MW-109S	Total/NA	Water	3535	
410-83867-2	MW-109D	Total/NA	Water	3535	
410-83867-3	MW-124S	Total/NA	Water	3535	
410-83867-4	MW-124D	Total/NA	Water	3535	
410-83867-5	MW-106S	Total/NA	Water	3535	
410-83867-7	DUP1_05112022	Total/NA	Water	3535	
410-83867-8	DUP2_05112022	Total/NA	Water	3535	
410-83867-9	EB_05112022	Total/NA	Water	3535	
MB 410-256033/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-256033/2-A	Lab Control Sample	Total/NA	Water	3535	
410-83867-5 MS	MW-106S	Total/NA	Water	3535	
410-83867-5 MSD	MW-106S	Total/NA	Water	3535	

Analysis Batch: 258462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-1	MW-109S	Total/NA	Water	MFS	256033
410-83867-2	MW-109D	Total/NA	Water	MFS	256033
410-83867-3	MW-124S	Total/NA	Water	MFS	256033
410-83867-4	MW-124D	Total/NA	Water	MFS	256033
410-83867-8	DUP2_05112022	Total/NA	Water	MFS	256033
410-83867-9	EB_05112022	Total/NA	Water	MFS	256033
MB 410-256033/1-A	Method Blank	Total/NA	Water	MFS	256033

Prep Batch: 259819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-6	MW106D	Total/NA	Water	3535	
410-83867-10	MW-111S	Total/NA	Water	3535	
410-83867-11	MW-111D	Total/NA	Water	3535	
410-83867-12	EB_05122022	Total/NA	Water	3535	
MB 410-259819/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-259819/2-A	Lab Control Sample	Total/NA	Water	3535	
410-83867-6 MS	MW106D	Total/NA	Water	3535	
410-83867-6 MSD	MW106D	Total/NA	Water	3535	

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

LCMS

Prep Batch: 259821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-6	MW106D	Total/NA	Water	3535	
410-83867-10	MW-111S	Total/NA	Water	3535	
410-83867-10 - DL	MW-111S	Total/NA	Water	3535	
410-83867-11 - DL	MW-111D	Total/NA	Water	3535	
410-83867-11	MW-111D	Total/NA	Water	3535	
410-83867-12	EB_05122022	Total/NA	Water	3535	
MB 410-259821/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-259821/2-A	Lab Control Sample	Total/NA	Water	3535	
410-83867-6 MS	MW106D	Total/NA	Water	3535	
410-83867-6 MSD	MW106D	Total/NA	Water	3535	

Analysis Batch: 260445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-1 - DL	MW-109S	Total/NA	Water	MFS	256033
410-83867-5	MW-106S	Total/NA	Water	MFS	256033
410-83867-6	MW106D	Total/NA	Water	MFS	259821
410-83867-7	DUP1_05112022	Total/NA	Water	MFS	256033
410-83867-10	MW-111S	Total/NA	Water	MFS	259821
410-83867-11	MW-111D	Total/NA	Water	MFS	259821
410-83867-12	EB_05122022	Total/NA	Water	MFS	259821
MB 410-259821/1-A	Method Blank	Total/NA	Water	MFS	259821
LCS 410-256033/2-A	Lab Control Sample	Total/NA	Water	MFS	256033
LCS 410-259821/2-A	Lab Control Sample	Total/NA	Water	MFS	259821
410-83867-5 MS	MW-106S	Total/NA	Water	MFS	256033
410-83867-5 MSD	MW-106S	Total/NA	Water	MFS	256033
410-83867-6 MS	MW106D	Total/NA	Water	MFS	259821
410-83867-6 MSD	MW106D	Total/NA	Water	MFS	259821

Analysis Batch: 260769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-10 - DL	MW-111S	Total/NA	Water	MFS	259821
410-83867-11 - DL	MW-111D	Total/NA	Water	MFS	259821

Analysis Batch: 260981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-83867-1	MW-109S	Total/NA	Water	BFS	256031
410-83867-1 - DL	MW-109S	Total/NA	Water	BFS	256031
410-83867-2	MW-109D	Total/NA	Water	BFS	256031
410-83867-3	MW-124S	Total/NA	Water	BFS	256031
410-83867-4	MW-124D	Total/NA	Water	BFS	256031
410-83867-5	MW-106S	Total/NA	Water	BFS	256031
410-83867-6	MW106D	Total/NA	Water	BFS	259819
410-83867-7	DUP1_05112022	Total/NA	Water	BFS	256031
410-83867-8	DUP2_05112022	Total/NA	Water	BFS	256031
410-83867-9	EB_05112022	Total/NA	Water	BFS	256031
410-83867-10	MW-111S	Total/NA	Water	BFS	259819
410-83867-11	MW-111D	Total/NA	Water	BFS	259819
410-83867-12	EB_05122022	Total/NA	Water	BFS	259819
MB 410-256031/1-A	Method Blank	Total/NA	Water	BFS	256031
MB 410-259819/1-A	Method Blank	Total/NA	Water	BFS	259819
LCS 410-256031/2-A	Lab Control Sample	Total/NA	Water	BFS	256031

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

LCMS (Continued)

Analysis Batch: 260981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-259819/2-A	Lab Control Sample	Total/NA	Water	BFS	259819
410-83867-5 MS	MW-106S	Total/NA	Water	BFS	256031
410-83867-5 MSD	MW-106S	Total/NA	Water	BFS	256031
410-83867-6 MS	MW106D	Total/NA	Water	BFS	259819
410-83867-6 MSD	MW106D	Total/NA	Water	BFS	259819

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-109S

Lab Sample ID: 410-83867-1

Date Collected: 05/10/22 16:35

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 18:20	JVK6	ELLE
Total/NA	Prep	3535	DL		256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS	DL	10	260981	06/01/22 18:33	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 13:20	JVK6	ELLE
Total/NA	Prep	3535	DL		256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS	DL	10	260445	05/31/22 18:36	JVK6	ELLE

Client Sample ID: MW-109D

Lab Sample ID: 410-83867-2

Date Collected: 05/10/22 16:45

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 18:45	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 13:33	JVK6	ELLE

Client Sample ID: MW-124S

Lab Sample ID: 410-83867-3

Date Collected: 05/11/22 10:10

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 18:58	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 13:46	JVK6	ELLE

Client Sample ID: MW-124D

Lab Sample ID: 410-83867-4

Date Collected: 05/11/22 10:10

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 19:11	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 13:58	JVK6	ELLE

Client Sample ID: MW-106S

Lab Sample ID: 410-83867-5

Date Collected: 05/11/22 13:35

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 19:23	JVK6	ELLE

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-106S

Lab Sample ID: 410-83867-5

Date Collected: 05/11/22 13:35

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	260445	05/31/22 18:49	JVK6	ELLE

Client Sample ID: MW106D

Lab Sample ID: 410-83867-6

Date Collected: 05/11/22 13:05

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			259819	05/27/22 13:24	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 21:31	JVK6	ELLE
Total/NA	Prep	3535			259821	05/27/22 13:26	GK2L	ELLE
Total/NA	Analysis	MFS		1	260445	05/31/22 20:17	JVK6	ELLE

Client Sample ID: DUP1_05112022

Lab Sample ID: 410-83867-7

Date Collected: 05/11/22 00:00

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 20:15	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	260445	05/31/22 19:27	JVK6	ELLE

Client Sample ID: DUP2_05112022

Lab Sample ID: 410-83867-8

Date Collected: 05/11/22 00:00

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 20:27	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 15:14	JVK6	ELLE

Client Sample ID: EB_05112022

Lab Sample ID: 410-83867-9

Date Collected: 05/11/22 12:45

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256031	05/17/22 09:01	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 20:40	JVK6	ELLE
Total/NA	Prep	3535			256033	05/17/22 09:10	GK2L	ELLE
Total/NA	Analysis	MFS		1	258462	05/24/22 15:27	JVK6	ELLE

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Client Sample ID: MW-111S

Lab Sample ID: 410-83867-10

Date Collected: 05/12/22 10:35

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			259819	05/27/22 13:24	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 22:08	JVK6	ELLE
Total/NA	Prep	3535			259821	05/27/22 13:26	GK2L	ELLE
Total/NA	Analysis	MFS		1	260445	05/31/22 20:55	JVK6	ELLE
Total/NA	Prep	3535	DL		259821	05/27/22 13:26	GK2L	ELLE
Total/NA	Analysis	MFS	DL	10	260769	06/01/22 10:44	JVK6	ELLE

Client Sample ID: MW-111D

Lab Sample ID: 410-83867-11

Date Collected: 05/12/22 11:10

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			259819	05/27/22 13:24	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 22:21	JVK6	ELLE
Total/NA	Prep	3535			259821	05/27/22 13:26	GK2L	ELLE
Total/NA	Analysis	MFS		1	260445	05/31/22 21:08	JVK6	ELLE
Total/NA	Prep	3535	DL		259821	05/27/22 13:26	GK2L	ELLE
Total/NA	Analysis	MFS	DL	10	260769	06/01/22 10:56	JVK6	ELLE

Client Sample ID: EB_05122022

Lab Sample ID: 410-83867-12

Date Collected: 05/12/22 09:00

Matrix: Water

Date Received: 05/12/22 16:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			259819	05/27/22 13:24	GK2L	ELLE
Total/NA	Analysis	BFS		1	260981	06/01/22 22:34	JVK6	ELLE
Total/NA	Prep	3535			259821	05/27/22 13:26	GK2L	ELLE
Total/NA	Analysis	MFS		1	260445	05/31/22 21:20	JVK6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
BFS	3535	Water	BFS_A2B2
BFS	3535	Water	BFS_A2B3
BFS	3535	Water	BFS_A3B
BFS	3535	Water	BFS_A3B2
BFS	3535	Water	BFS_A4B
BFS	3535	Water	BFS_AB2
BFS	3535	Water	BFS_AB3
BFS	3535	Water	BFS_B3
BFS	3535	Water	BFS_B4
MFS	3535	Water	MFS_M3
MFS	3535	Water	MFS_M4
MFS	3535	Water	MFS_N2
MFS	3535	Water	MFS_N3
MFS	3535	Water	MFS_N4
MFS	3535	Water	MFS_N5

Method Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Method	Method Description	Protocol	Laboratory
BFS	Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
MFS	Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

Client = Client derived Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-83867-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-83867-1	MW-109S	Water	05/10/22 16:35	05/12/22 16:54
410-83867-2	MW-109D	Water	05/10/22 16:45	05/12/22 16:54
410-83867-3	MW-124S	Water	05/11/22 10:10	05/12/22 16:54
410-83867-4	MW-124D	Water	05/11/22 10:10	05/12/22 16:54
410-83867-5	MW-106S	Water	05/11/22 13:35	05/12/22 16:54
410-83867-6	MW106D	Water	05/11/22 13:05	05/12/22 16:54
410-83867-7	DUP1_05112022	Water	05/11/22 00:00	05/12/22 16:54
410-83867-8	DUP2_05112022	Water	05/11/22 00:00	05/12/22 16:54
410-83867-9	EB_05112022	Water	05/11/22 12:45	05/12/22 16:54
410-83867-10	MW-111S	Water	05/12/22 10:35	05/12/22 16:54
410-83867-11	MW-111D	Water	05/12/22 11:10	05/12/22 16:54
410-83867-12	EB_05122022	Water	05/12/22 09:00	05/12/22 16:54

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: IC 410-260772/1 Client Sample ID: _____

Date Analyzed: 06/01/22 11:47 Lab File ID: 22JUN01BFS-01.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.06	Baseline	kruelleh	06/01/22 13:58
BFS_A3B	4.14	Baseline	kruelleh	06/01/22 13:58
BFS_B3	4.30	Baseline	kruelleh	06/01/22 13:59
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 13:59
BFS_AB3	4.66	Baseline	kruelleh	06/01/22 13:59
BFS_A3B2	4.76	Baseline	kruelleh	06/01/22 13:59
BFS_B4	4.90	Baseline	kruelleh	06/01/22 13:59

Lab Sample ID: IC 410-260772/2 Client Sample ID: _____

Date Analyzed: 06/01/22 12:01 Lab File ID: 22JUN01BFS-02.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.06	Baseline	kruelleh	06/01/22 13:59
BFS_A3B	4.13	Baseline	kruelleh	06/01/22 13:59
BFS_B3	4.29	Baseline	kruelleh	06/01/22 14:00
BFS_A4B	4.48	Baseline	kruelleh	06/01/22 14:00
BFS_B4	4.88	Baseline	kruelleh	06/01/22 14:00

Lab Sample ID: IC 410-260772/3 Client Sample ID: _____

Date Analyzed: 06/01/22 12:13 Lab File ID: 22JUN01BFS-03.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.97	Baseline	kruelleh	06/01/22 14:00

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: IC 410-260772/4 Client Sample ID: _____

Date Analyzed: 06/01/22 12:26 Lab File ID: 22JUN01BFS-04.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB3	4.66	Baseline	kruelleh	06/01/22 14:01
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:01

Lab Sample ID: ICISAV 410-260772/5 Client Sample ID: _____

Date Analyzed: 06/01/22 12:39 Lab File ID: 22JUN01BFS-05.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.99	Baseline	kruelleh	06/01/22 13:58

Lab Sample ID: IC 410-260772/6 Client Sample ID: _____

Date Analyzed: 06/01/22 12:51 Lab File ID: 22JUN01BFS-06.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.30	Baseline	kruelleh	06/01/22 14:01
BFS_A2B2	4.40	Baseline	kruelleh	06/01/22 14:01
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:02
BFS_AB3	4.66	Baseline	kruelleh	06/01/22 14:02
BFS_A2B3	5.01	Baseline	kruelleh	06/01/22 14:02

Lab Sample ID: IC 410-260772/7 Client Sample ID: _____

Date Analyzed: 06/01/22 13:04 Lab File ID: 22JUN01BFS-07.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.06	Baseline	kruelleh	06/01/22 14:02
BFS_B3	4.30	Baseline	kruelleh	06/01/22 14:02
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:02
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:03

BFS

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: IC 410-260772/8 Client Sample ID: _____

Date Analyzed: 06/01/22 13:16 Lab File ID: 22JUN01BFS-08.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.30	Baseline	kruelleh	06/01/22 14:03
BFS_A2B2	4.40	Baseline	kruelleh	06/01/22 14:03
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:03
BFS_A3B2	4.76	Baseline	kruelleh	06/01/22 14:03
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:04

Lab Sample ID: IC 410-260772/9 Client Sample ID: _____

Date Analyzed: 06/01/22 13:29 Lab File ID: 22JUN01BFS-09.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.29	Baseline	kruelleh	06/01/22 14:04
BFS_A2B2	4.39	Baseline	kruelleh	06/01/22 14:04
BFS_A4B	4.48	Baseline	kruelleh	06/01/22 14:04
BFS_A2B3	5.00	Baseline	kruelleh	06/01/22 14:05

Lab Sample ID: IC 410-260772/10 Client Sample ID: _____

Date Analyzed: 06/01/22 13:42 Lab File ID: 22JUN01BFS-10.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.31	Baseline	kruelleh	06/01/22 14:05
BFS_A4B	4.49	Baseline	kruelleh	06/01/22 14:05

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260772

Lab Sample ID: ICB 410-260772/11 Client Sample ID: _____

Date Analyzed: 06/01/22 13:55 Lab File ID: 22JUN01BFS-11.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.30	Baseline	kruelleh	06/02/22 06:27
BFS_A2B2	4.40	Baseline	kruelleh	06/02/22 06:27
BFS_AB3	4.66	Baseline	kruelleh	06/02/22 06:27

Lab Sample ID: ICV 410-260772/12 Client Sample ID: _____

Date Analyzed: 06/01/22 14:08 Lab File ID: 22JUN01BFS-12.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	4.07	Baseline	kruelleh	06/02/22 06:27
BFS_A2B2	4.40	Baseline	kruelleh	06/02/22 06:27
BFS_A2B3	5.00	Baseline	kruelleh	06/02/22 06:27

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260981

Lab Sample ID: CCV 410-260981/1 Client Sample ID: _____

Date Analyzed: 06/01/22 14:33 Lab File ID: 22JUN01BFS-14.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B2	4.39	Baseline	kruelleh	06/02/22 06:39
BFS_A2B3	4.98	Baseline	kruelleh	06/02/22 06:39

Lab Sample ID: LCS 410-256031/2-A Client Sample ID: _____

Date Analyzed: 06/01/22 14:58 Lab File ID: 22JUN01BFS-16.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	5.01	Baseline	kruelleh	06/02/22 06:41

Lab Sample ID: CCV 410-260981/14 Client Sample ID: _____

Date Analyzed: 06/01/22 17:17 Lab File ID: 22JUN01BFS-27.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.29	Baseline	kruelleh	06/02/22 06:39
BFS_A2B2	4.39	Baseline	kruelleh	06/02/22 06:39
BFS_A2B3	4.99	Baseline	kruelleh	06/02/22 06:39

Lab Sample ID: 410-83867-1 DL Client Sample ID: MW-109S DL

Date Analyzed: 06/01/22 18:33 Lab File ID: 22JUN01BFS-33.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.98	Baseline	kruelleh	06/02/22 06:46

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260981

Lab Sample ID: 410-83867-3 Client Sample ID: MW-124S

Date Analyzed: 06/01/22 18:58 Lab File ID: 22JUN01BFS-35.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B4	4.90	Baseline	kruelleh	06/02/22 06:46

Lab Sample ID: 410-83867-4 Client Sample ID: MW-124D

Date Analyzed: 06/01/22 19:11 Lab File ID: 22JUN01BFS-36.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB3		Peak assignment corrected	kruelleh	06/02/22 06:47

Lab Sample ID: CCV 410-260981/25 Client Sample ID: _____

Date Analyzed: 06/01/22 19:36 Lab File ID: 22JUN01BFS-38.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B2	4.39	Baseline	kruelleh	06/02/22 06:40
BFS_A2B3	4.99	Baseline	kruelleh	06/02/22 06:40

Lab Sample ID: CCV 410-260981/31 Client Sample ID: _____

Date Analyzed: 06/01/22 20:53 Lab File ID: 22JUN01BFS-44.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.99	Baseline	kruelleh	06/02/22 06:40

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260981

Lab Sample ID: CCV 410-260981/40 Client Sample ID: _____

Date Analyzed: 06/01/22 22:46 Lab File ID: 22JUN01BFS-53.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.29	Baseline	kruelleh	06/02/22 06:41
BFS_A2B2	4.40	Baseline	kruelleh	06/02/22 06:41
BFS_A2B3	4.99	Baseline	kruelleh	06/02/22 06:41

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260445

Lab Sample ID: 410-83867-1 DL Client Sample ID: MW-109S DL

Date Analyzed: 05/31/22 18:36 Lab File ID: 22MAY31MFS-17.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.47	Baseline	kruelleh	06/01/22 06:38

Lab Sample ID: 410-83867-7 Client Sample ID: DUP1_05112022

Date Analyzed: 05/31/22 19:27 Lab File ID: 22MAY31MFS-21.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_M4	6.46	Baseline	kruelleh	06/01/22 06:39

Lab Sample ID: 410-83867-6 Client Sample ID: MW106D

Date Analyzed: 05/31/22 20:17 Lab File ID: 22MAY31MFS-25.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_M4	6.45	Baseline	kruelleh	06/01/22 06:43

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 260769

Lab Sample ID: 410-83867-10 DL Client Sample ID: MW-111S DL

Date Analyzed: 06/01/22 10:44 Lab File ID: 22JUN01MFS-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.47	Baseline	kruelleh	06/01/22 13:03

Lab Sample ID: 410-83867-11 DL Client Sample ID: MW-111D DL

Date Analyzed: 06/01/22 10:56 Lab File ID: 22JUN01MFS-06.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.47	Baseline	kruelleh	06/01/22 13:04

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL	
							BFS_A2B3	0.654875 ng/mL	
							BFS_A3B	4.97698 ng/mL	
							BFS_A3B2	6.54868 ng/mL	
							BFS_A4B	2.75045 ng/mL	
							BFS_AB2	4.4531 ng/mL	
							BFS_AB3	37.1964 ng/mL	
							BFS_B3	15.8478 ng/mL	
							BFS_B4	8.64425 ng/mL	
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
								BFS_A2B3	26195 ng/mL
								BFS_A3B	199079 ng/mL
								BFS_A3B2	261947 ng/mL
								BFS_A4B	110018 ng/mL
								BFS_AB2	178124 ng/mL
								BFS_AB3	1487860 ng/mL
								BFS_B3	633911 ng/mL
								BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
PFC_ICV_MFS_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01491	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_MFS_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.1 mL	MFS_N2	1.00919 ng/mL	
							MFS_M3	1.01081 ng/mL	
							MFS_N3	1.00152 ng/mL	
							MFS_M4	1.01969 ng/mL	
							MFS_N4	1.00444 ng/mL	
							MFS_N5	1.00093 ng/mL	
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS_N2	100.919 ng/mL	
							MFS_M3	101.081 ng/mL	
							MFS_N3	100.152 ng/mL	
							MFS_M4	101.969 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IN_BFS_00013	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_IN_BFS_00011	1 mL	BFS A2B2	1388.32 ng/mL
							BFS A2B3	26.195 ng/mL
							BFS A3B	199.079 ng/mL
							BFS A3B2	261.947 ng/mL
							BFS A4B	110.018 ng/mL
							BFS AB2	178.124 ng/mL
							BFS AB3	1487.86 ng/mL
							BFS B3	633.911 ng/mL
							BFS B4	345.77 ng/mL
.PFC_IN_BFS_00011	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
PFC_IN_MFS_00024	07/13/22	03/17/22	Methanol, Lot EC203-US	10 mL	PFC_IN_MFS_00019	0.5 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
.PFC_IN_MFS_00019	07/13/22	01/13/22	Methanol, Lot EC058-US	10 mL	PFC_IN_MFS_00018	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
..PFC_IN_MFS_00018	07/13/22	01/13/22	Methanol, Lot EC058-US	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
...PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
...PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
...PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
...PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
...PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
...PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
PFC_INT_00009	07/13/22	01/13/22	Methanol, Lot EC058-US	10 mL	PFC_ST_00005	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_00005	12/23/23		Wellington Laboratories, Lot M3HFPODA1220		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IS_MOD_00325	07/13/22	05/13/22	Methanol, Lot ED319-US	10 mL	PFC_ST_01559	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01559	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_IS_MOD_00331	06/21/22	05/23/22	Methanol, Lot ED319-US	10 mL	PFC_ST_01597	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_IS_MOD_00336	06/29/22	05/29/22	Methanol, Lot ED319-US	10 mL	PFC_ST_01597	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_SS_00010	06/06/22	04/08/22	Methanol, Lot EC203-US	10 mL	PFC_INT_00010	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00010	09/25/22	03/25/22	Methanol, Lot EC203-US	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_STD_BFS1_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.025 mL	BFS_A2B2	0.347079 ng/mL
							BFS_A2B3	0.00654875 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A3B	0.0497698 ng/mL
							BFS_A3B2	0.0654867 ng/mL
							BFS_A4B	0.0275045 ng/mL
							BFS_AB2	0.044531 ng/mL
							BFS_AB3	0.371964 ng/mL
							BFS_B3	0.158478 ng/mL
							BFS_B4	0.0864425 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PFC_STD_BFS10_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.5 mL	BFS_A2B2	694.159 ng/mL
							BFS_A2B3	13.0975 ng/mL
							BFS_A3B	99.5395 ng/mL
							BFS_A3B2	130.974 ng/mL
							BFS_A4B	55.009 ng/mL
							BFS_AB2	89.062 ng/mL
							BFS_AB3	743.928 ng/mL
							BFS_B3	316.955 ng/mL
							BFS_B4	172.885 ng/mL
							PFC_INT_00012	0.1 mL
PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
							BFS_A2B2	1388320 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	
							BFS_A2B2	26195 ng/mL
							BFS_A2B3	199079 ng/mL
							BFS_A3B	261947 ng/mL
							BFS_A3B2	110018 ng/mL
							BFS_A4B	178124 ng/mL
							BFS_AB2	1487860 ng/mL
							BFS_AB3	633911 ng/mL
							BFS_B3	345770 ng/mL
							BFS_B4	
.PFC INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS2_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.075 mL	BFS_A2B2	1.04124 ng/mL
							BFS_A2B3	0.0196463 ng/mL
							BFS_A3B	0.149309 ng/mL
							BFS_A3B2	0.19646 ng/mL
							BFS_A4B	0.0825135 ng/mL
							BFS_AB2	0.133593 ng/mL
							BFS_AB3	1.11589 ng/mL
							BFS_B3	0.475433 ng/mL
							BFS_B4	0.259327 ng/mL
							BFS_B4	0.259327 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS3_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.2 mL	BFS_A2B2	2.77663 ng/mL
							BFS_A2B3	0.05239 ng/mL
							BFS_A3B	0.398158 ng/mL
							BFS_A3B2	0.523894 ng/mL
							BFS_A4B	0.220036 ng/mL
							BFS_AB2	0.356248 ng/mL
							BFS_AB3	2.97571 ng/mL
							BFS_B3	1.26782 ng/mL
							BFS_B4	0.69154 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
					PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
BFS_B3	63.3911 ng/mL							
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
BFS_B4	345770 ng/mL							
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS4_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.5 mL	BFS_A2B2	6.94158 ng/mL
							BFS_A2B3	0.130975 ng/mL
							BFS_A3B	0.995395 ng/mL
							BFS_A3B2	1.30974 ng/mL
							BFS_A4B	0.55009 ng/mL
							BFS_AB2	0.89062 ng/mL
							BFS_AB3	7.43928 ng/mL
							BFS_B3	3.16955 ng/mL
							BFS_B4	1.72885 ng/mL
							PFC_INT_00012	0.1 mL
PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS5_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	1 mL	BFS A2B2	13.8832 ng/mL
							BFS A2B3	0.26195 ng/mL
							BFS A3B	1.99079 ng/mL
							BFS A3B2	2.61947 ng/mL
							BFS A4B	1.10018 ng/mL
							BFS AB2	1.78124 ng/mL
							BFS AB3	14.8786 ng/mL
							BFS B3	6.33911 ng/mL
							BFS B4	3.4577 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS6_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS A2B2	34.7079 ng/mL
							BFS A2B3	0.654875 ng/mL
							BFS A3B	4.97698 ng/mL
							BFS A3B2	6.54868 ng/mL
							BFS A4B	2.75045 ng/mL
							BFS AB2	4.4531 ng/mL
							BFS AB3	37.1964 ng/mL
							BFS B3	15.8478 ng/mL
							BFS B4	8.64425 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS7_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.05 mL	BFS A2B2	69.4159 ng/mL
							BFS A2B3	1.30975 ng/mL
							BFS A3B	9.95395 ng/mL
							BFS A3B2	13.0974 ng/mL
							BFS A4B	5.5009 ng/mL
							BFS AB2	8.9062 ng/mL
							BFS AB3	74.3928 ng/mL
							BFS B3	31.6956 ng/mL
							BFS B4	17.2885 ng/mL
					PFC_INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS8_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS9_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.2 mL	BFS A2B2	277.663 ng/mL
							BFS A2B3	5.239 ng/mL
							BFS A3B	39.8158 ng/mL
							BFS A3B2	52.3894 ng/mL
							BFS A4B	22.0036 ng/mL
							BFS AB2	35.6248 ng/mL
							BFS AB3	297.571 ng/mL
							BFS B3	126.782 ng/mL
							BFS B4	69.154 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS1_00008	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.025 mL	MFS_N2	0.252299 ng/mL
							MFS_M3	0.252702 ng/mL
							MFS_N3	0.25038 ng/mL
							MFS_M4	0.254923 ng/mL
							MFS_N4	0.251111 ng/mL
							MFS_N5	0.250232 ng/mL
					PFC INT 00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST MFS 00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC ST MFS 00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC ST MFS 00010	0.28 mL	MFS N3	50076 ng/mL
					PFC ST MFS 00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC ST MFS 00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC ST MFS 00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC ST MFS 00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC ST MFS 00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC ST MFS 00010	11/11/22		Solvay, Lot 148/72			(Purchased Reagent)	MFS N3	1788430 ng/mL
....PFC ST MFS 00011	11/11/22		Solvay, Lot 148/74			(Purchased Reagent)	MFS M4	1243530 ng/mL
....PFC ST MFS 00012	11/11/22		Solvay, Lot 148/46			(Purchased Reagent)	MFS N4	1521880 ng/mL
....PFC ST MFS 00013	11/11/22		Solvay, Lot 148/22			(Purchased Reagent)	MFS N5	1283240 ng/mL
.PFC INT 00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_MFS2_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.05 mL	MFS_N2	0.504597 ng/mL
							MFS_M3	0.505404 ng/mL
							MFS_N3	0.50076 ng/mL
							MFS_M4	0.509846 ng/mL
							MFS_N4	0.502221 ng/mL
							MFS_N5	0.500464 ng/mL
PFC_INT 00011	0.1 mL	13C3 HFPO-DA	5 ng/mL					
PFC_ST 01491	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST MFS 00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC ST MFS 00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC ST MFS 00010	0.28 mL	MFS N3	50076 ng/mL
					PFC ST MFS 00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC ST MFS 00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC ST MFS 00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC ST MFS 00008	11/10/22		Solvay, Lot 148/64			(Purchased Reagent)	MFS N2	573406 ng/mL
....PFC ST MFS 00009	11/10/22		Solvay, Lot 148/61			(Purchased Reagent)	MFS M3	886674 ng/mL
....PFC ST MFS 00010	11/11/22		Solvay, Lot 148/72			(Purchased Reagent)	MFS N3	1788430 ng/mL
....PFC ST MFS 00011	11/11/22		Solvay, Lot 148/74			(Purchased Reagent)	MFS M4	1243530 ng/mL
....PFC ST MFS 00012	11/11/22		Solvay, Lot 148/46			(Purchased Reagent)	MFS N4	1521880 ng/mL
....PFC ST MFS 00013	11/11/22		Solvay, Lot 148/22			(Purchased Reagent)	MFS N5	1283240 ng/mL
.PFC INT 00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_MFS3_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.1 mL	MFS_N2	1.00919 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M3	1.01081 ng/mL
							MFS N3	1.00152 ng/mL
							MFS M4	1.01969 ng/mL
							MFS N4	1.00444 ng/mL
							MFS N5	1.00093 ng/mL
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS4_00009	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	0.5 mL	MFS N2	5.04597 ng/mL
							MFS M3	5.05404 ng/mL
							MFS N3	5.0076 ng/mL
							MFS M4	5.09846 ng/mL
							MFS N4	5.02221 ng/mL
							MFS N5	5.00464 ng/mL
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS_N4	100.444 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N5	100.093 ng/mL		
							MFS N2	2018.39 ng/mL		
							MFS M3	2021.62 ng/mL		
							MFS N3	2003.04 ng/mL		
							MFS M4	2039.38 ng/mL		
							MFS N4	2008.89 ng/mL		
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL		
							PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
							PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
							PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
							PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
							PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)	MFS N2	573406 ng/mL			
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)	MFS M3	886674 ng/mL			
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)	MFS N3	1788430 ng/mL			
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)	MFS M4	1243530 ng/mL			
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)	MFS N4	1521880 ng/mL			
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)	MFS N5	1283240 ng/mL			
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL		
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL		
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL		
PFC_STD_MFS5_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	1 mL	MFS N2	10.0919 ng/mL		
							MFS M3	10.1081 ng/mL		
							MFS N3	10.0152 ng/mL		
							MFS M4	10.1969 ng/mL		
							MFS N4	10.0444 ng/mL		
							MFS N5	10.0093 ng/mL		
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	13C3 HFPO-DA	5 ng/mL		
							PFC_INT_00011	0.1 mL	13C2 PFOA	5 ng/mL
							PFC_ST_01491	0.025 mL		
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL		
							MFS M3	101.081 ng/mL		
							MFS N3	100.152 ng/mL		
							MFS M4	101.969 ng/mL		
							MFS N4	100.444 ng/mL		
							MFS N5	100.093 ng/mL		
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL		
							MFS M3	2021.62 ng/mL		
							MFS N3	2003.04 ng/mL		
							MFS M4	2039.38 ng/mL		
							MFS N4	2008.89 ng/mL		
							MFS N5	2001.85 ng/mL		
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL		
							PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
							PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
							PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
							PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N4	1521880 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	MFS N5	1283240 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	500 ng/mL
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_STD_MFS6_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	2.5 mL	13C2 PFOA	2000 ng/mL
							MFS N2	25.2299 ng/mL
							MFS M3	25.2702 ng/mL
							MFS N3	25.038 ng/mL
							MFS M4	25.4923 ng/mL
							MFS N4	25.1111 ng/mL
							MFS N5	25.0232 ng/mL
					PFC_INT_00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
..PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
...PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_MFS_00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC_ST_MFS_00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC_ST_MFS_00010	0.28 mL	MFS N3	50076 ng/mL
					PFC_ST_MFS_00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC_ST_MFS_00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC_ST_MFS_00013	0.39 mL	MFS N5	50046.4 ng/mL
....PFC_ST_MFS_00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
....PFC_ST_MFS_00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
....PFC_ST_MFS_00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
....PFC_ST_MFS_00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
....PFC_ST_MFS_00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
....PFC_ST_MFS_00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC_INT_00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS7_00007	07/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00027	5 mL	MFS N2	50.4597 ng/mL
							MFS_M3	50.5404 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	50.076 ng/mL
							MFS M4	50.9846 ng/mL
							MFS N4	50.2221 ng/mL
							MFS N5	50.0464 ng/mL
					PFC INT 00011	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01491	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_MFS_00027	10/20/22	04/20/22	Methanol, Lot 214323	20 mL	PFC_IN_MFS_00026	1 mL	MFS N2	100.919 ng/mL
							MFS M3	101.081 ng/mL
							MFS N3	100.152 ng/mL
							MFS M4	101.969 ng/mL
							MFS N4	100.444 ng/mL
							MFS N5	100.093 ng/mL
.PFC_IN_MFS_00026	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC_IN_MFS_00025	0.4 mL	MFS N2	2018.39 ng/mL
							MFS M3	2021.62 ng/mL
							MFS N3	2003.04 ng/mL
							MFS M4	2039.38 ng/mL
							MFS N4	2008.89 ng/mL
							MFS N5	2001.85 ng/mL
.PFC_IN_MFS_00025	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST MFS 00008	0.88 mL	MFS N2	50459.7 ng/mL
					PFC ST MFS 00009	0.57 mL	MFS M3	50540.4 ng/mL
					PFC ST MFS 00010	0.28 mL	MFS N3	50076 ng/mL
					PFC ST MFS 00011	0.41 mL	MFS M4	50984.6 ng/mL
					PFC ST MFS 00012	0.33 mL	MFS N4	50222.1 ng/mL
					PFC ST MFS 00013	0.39 mL	MFS N5	50046.4 ng/mL
.PFC ST MFS 00008	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	573406 ng/mL
.PFC ST MFS 00009	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	886674 ng/mL
.PFC ST MFS 00010	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1788430 ng/mL
.PFC ST MFS 00011	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	1243530 ng/mL
.PFC ST MFS 00012	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	1521880 ng/mL
.PFC ST MFS 00013	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1283240 ng/mL
.PFC INT 00011	10/20/22	04/20/22	Methanol, Lot 214323	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01491	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

Reagent

PFC_ST_00005

Received 5/16/21

CERTIFICATE OF ANALYSIS DOCUMENTATION

WELLINGTON LABORATORIES



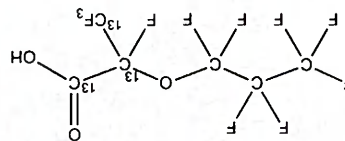
PC-ST-00005



410-1371681

PRODUCT CODE: M3HFP0-DA
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)¹³C₃propanoic acid

LOT NUMBER: M3HFP0DA1220
CAS #: Not available



STRUCTURE:

MOLECULAR FORMULA: ¹³C₃H₂F₁₀O₃
CONCENTRATION: 50.0 ± 2.5 µg/mL
CHEMICAL PURITY: >98%

MOLECULAR WEIGHT: 333.03
ISOTOPIC PURITY: ≥99% ¹³C
MOLENT(S): Methanol
ISOTOPIC PURITY: ¹³C₃

RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:
B.G. Chittim, General Manager

Date: 02/01/2021
(m/v/d/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • Info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDS) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n , on which it depends is:

$$u_c(y) = \sqrt{\sum_{i=1}^n u(x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

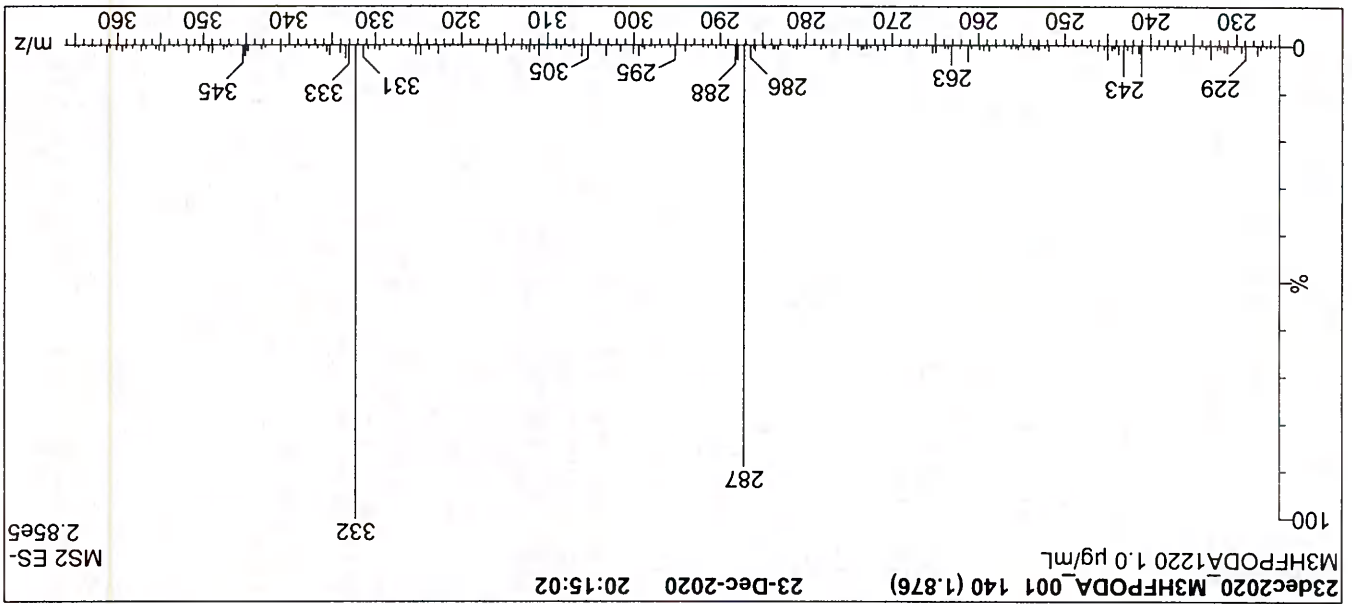
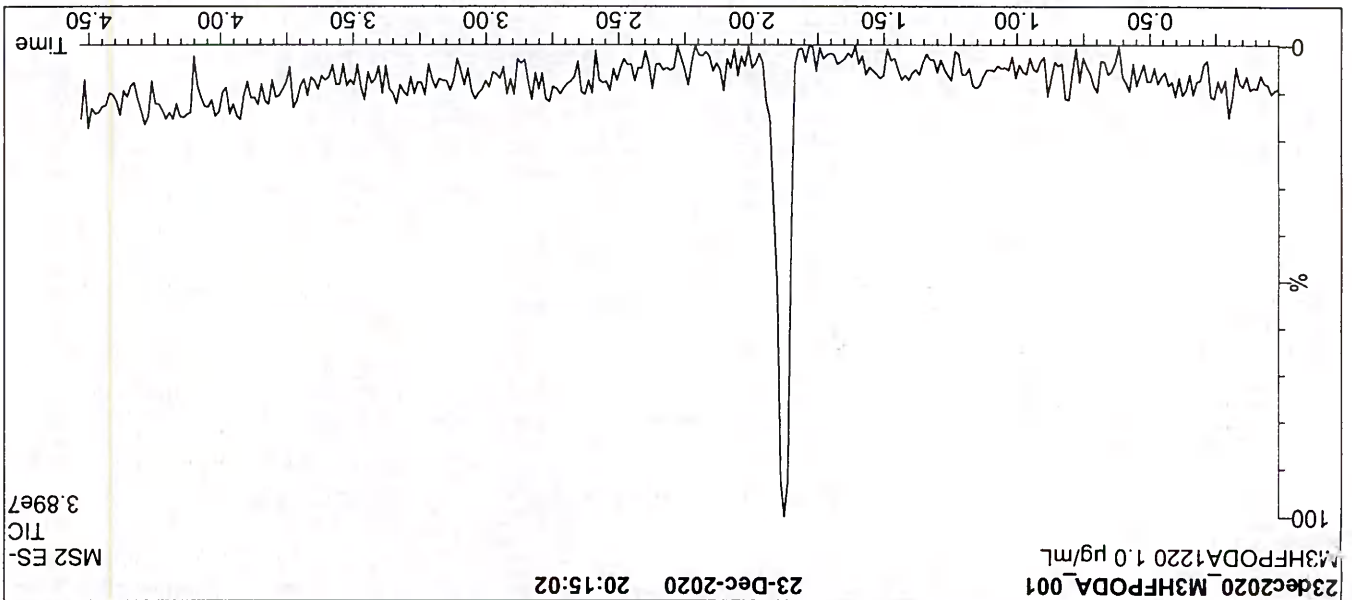
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA: A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB: AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M3HFP0-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

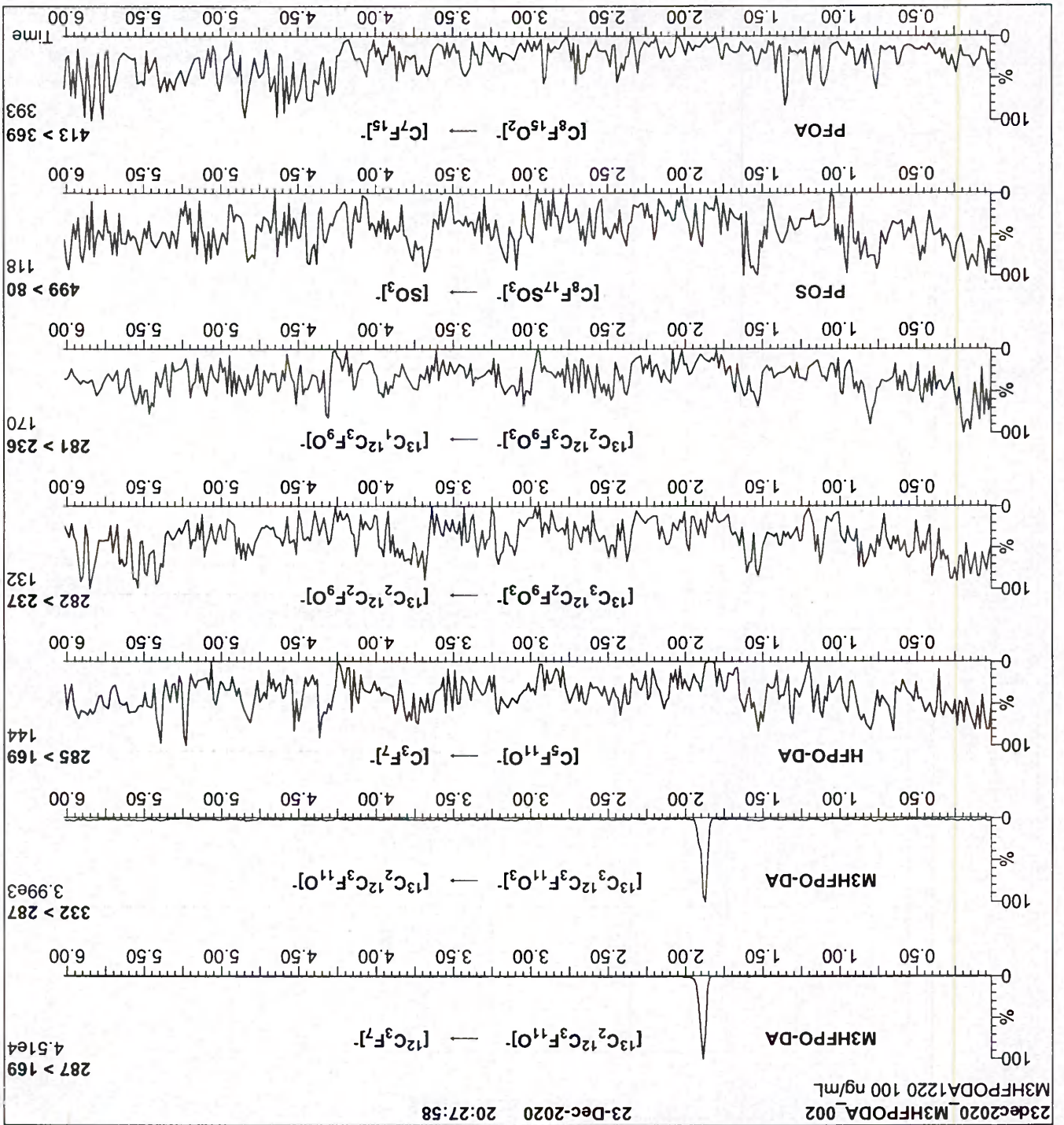
Mobile phase: Gradient
Start: 45% H₂O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for
2 min before returning to initial conditions in 0.75 min.

Flow: 300 µL/min
Time: 12 min
Desolvation Gas Flow (L/hr) = 1000
Desolvation Temperature (°C) = 300
Cone Voltage (V) = 15.00
Capillary Voltage (kV) = 2.50
Source: Electrospray (negative)

Experiment: Full Scan (225 - 850 amu)

MS Parameters:

Figure 2: M3HFP0-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (M3HFP0-DA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_01410



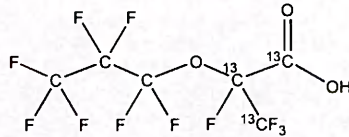
WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

AFC-ST-01410

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA1121
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)^(13C₃)propanoic acid

STRUCTURE: **CAS #:** Not available



410-2416299

MOLECULAR FORMULA: ¹³C₃¹²C₃HF₁₁O₃ **MOLECULAR WEIGHT:** 333.03
CONCENTRATION: 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 11/11/2021
EXPIRY DATE: (mm/dd/yyyy) 11/11/2024
RECOMMENDED STORAGE: Refrigerate ampoule

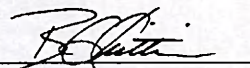
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 11/16/2021
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

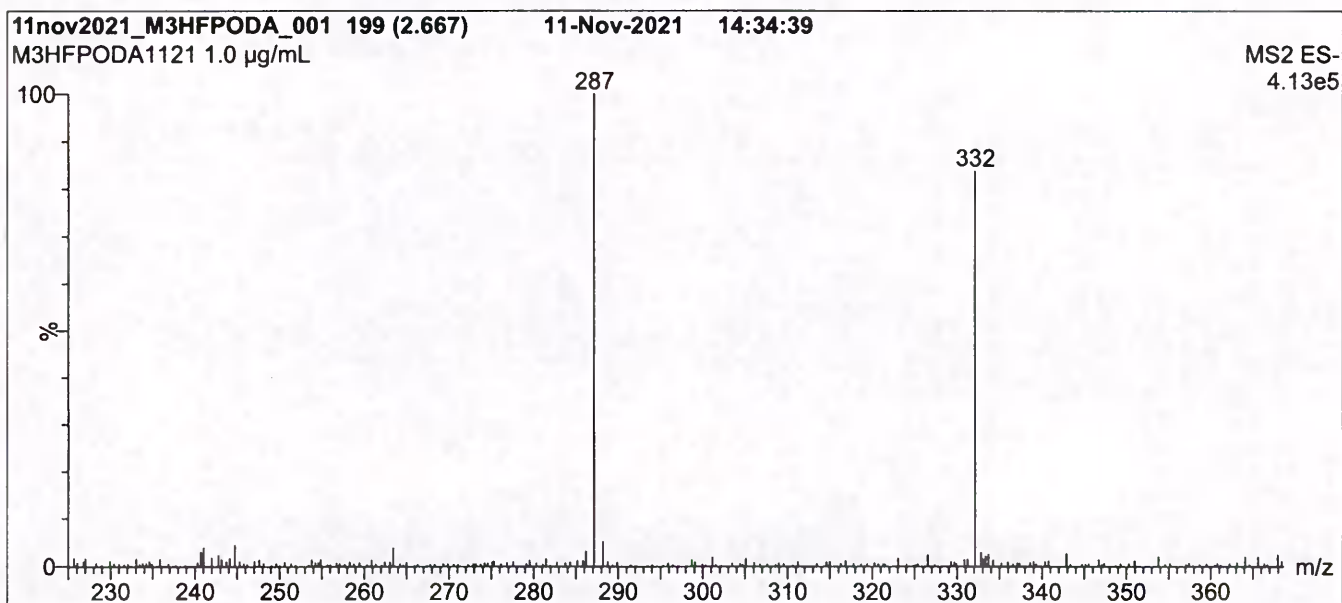
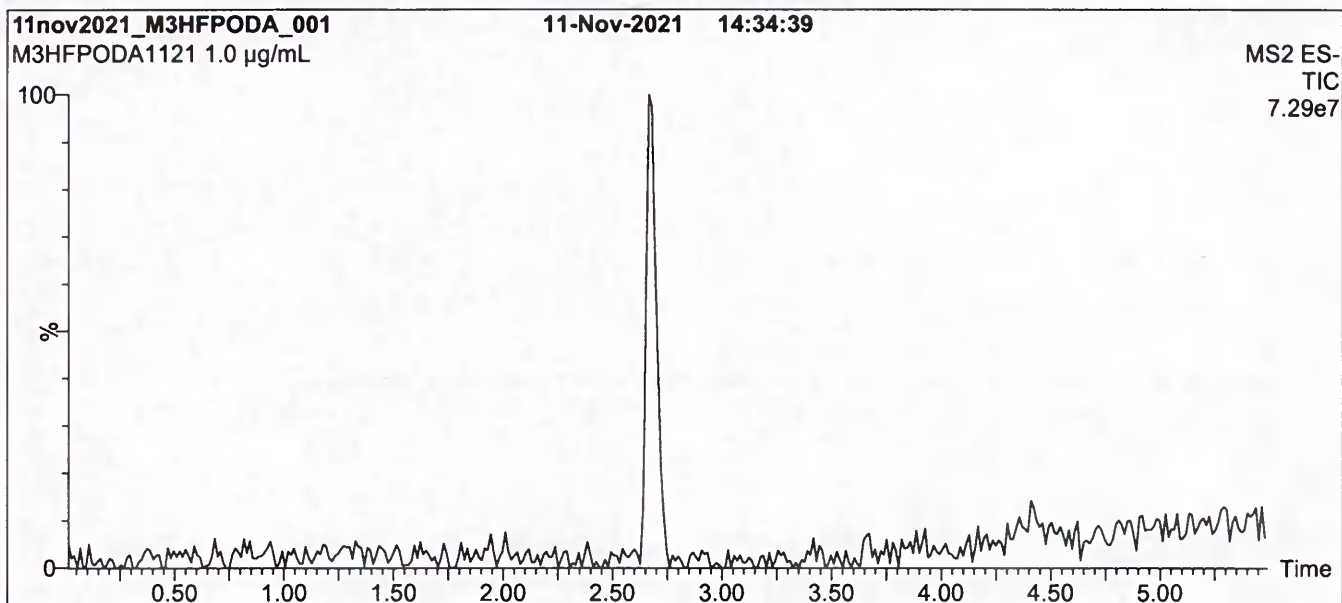
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M3HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈,
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H₂O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.75 min.
Time: 12 min

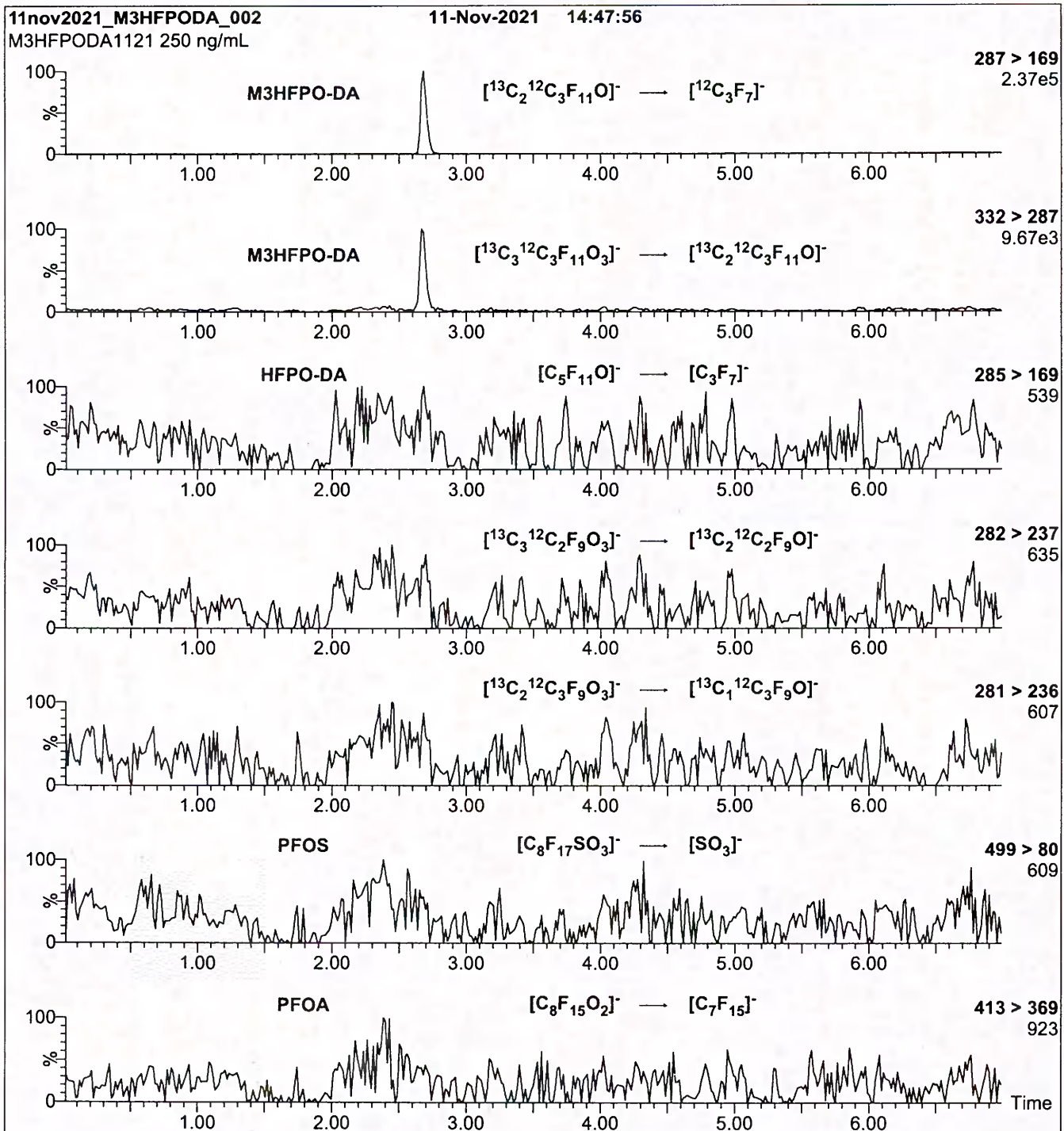
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (M3HFPO-DA)
Mobile phase: Same as Figure 1
Flow: 300 $\mu\text{L}/\text{min}$

MS Parameters:

Collision Gas (mbar) = 3.37e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_01491



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**

2575886
ID: PFC_ST_01491
Exp: 04/26/26 Pprd: PY40
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

- Table A: Components and Concentrations of the Solution/Mixture
- Figure 1: LC/MS Data (SIR)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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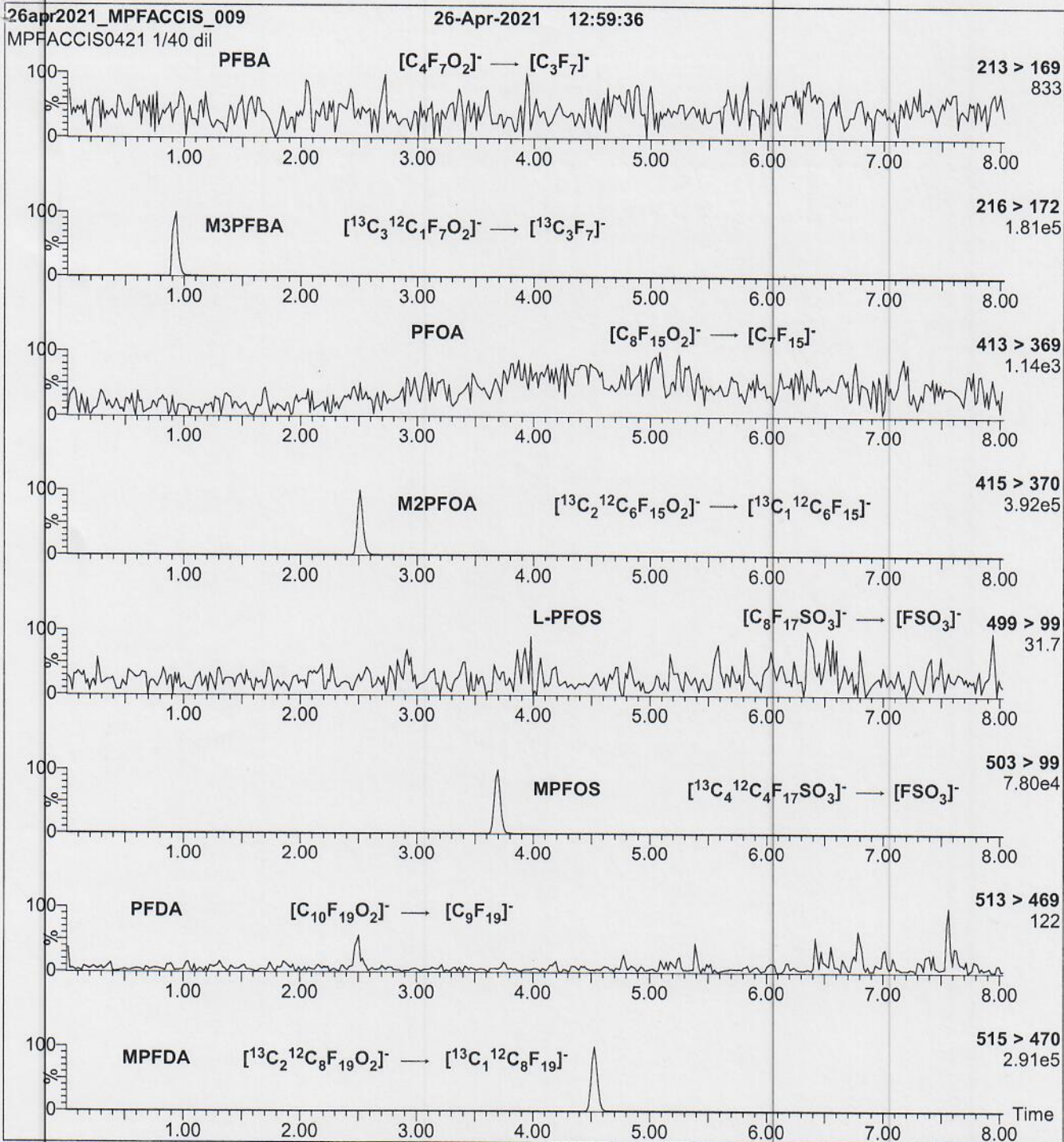
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01559



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**

2685547
ID: PFC_ST_01559
Exp: 04/26/26 Pripd: PY4D Opm: 04/28/22
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
 Figure 1: LC/MS Data (SIR)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

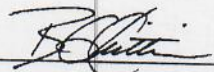
- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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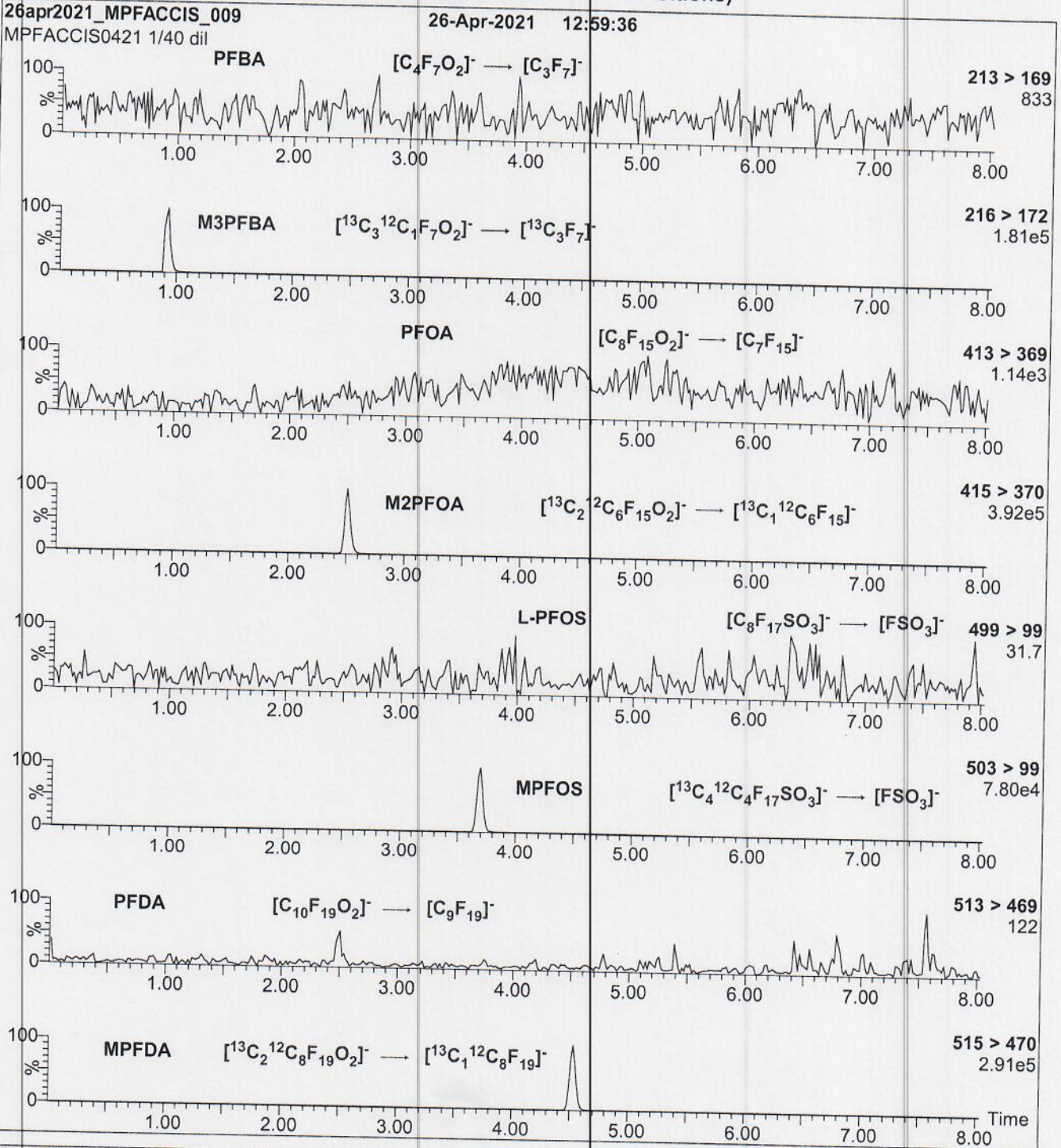
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01597



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

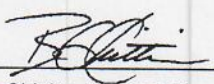
- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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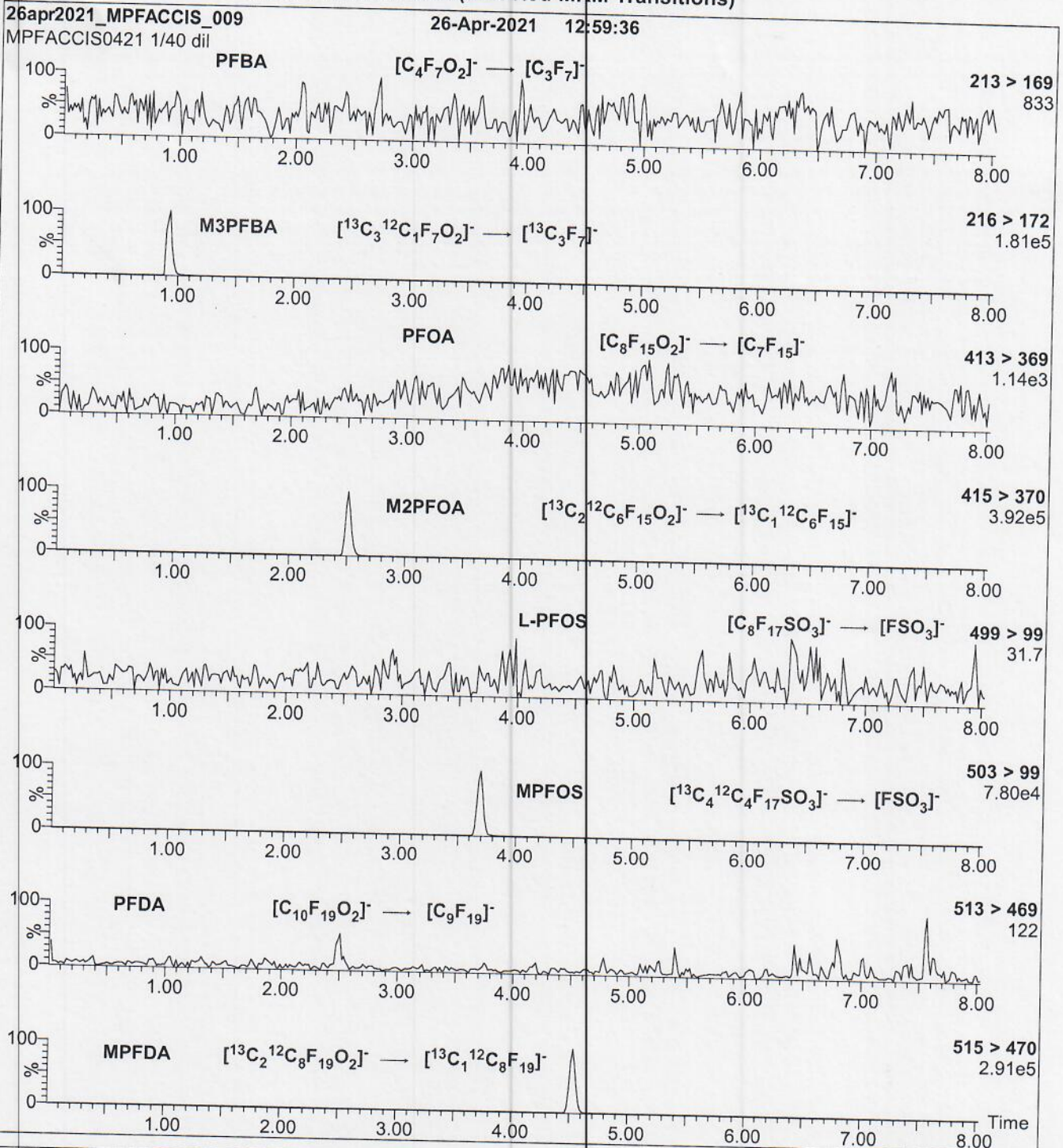
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

BFS_IDA

**Bi-functional Surfactants (BFS) by
LC/MS/MS using Isotope Dilution**

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories

Job No.: 410-83867-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-109S	410-83867-1	80 cn
MW-109S DL	410-83867-1 DL	101 cn
MW-109D	410-83867-2	76 cn
MW-124S	410-83867-3	84 cn
MW-124D	410-83867-4	74 cn
MW-106S	410-83867-5	79 cn
MW106D	410-83867-6	97 cn
DUP1_05112022	410-83867-7	84 cn
DUP2_05112022	410-83867-8	65 cn
EB_05112022	410-83867-9	83 cn
MW-111S	410-83867-10	115 cn
MW-111D	410-83867-11	99 cn
EB_05122022	410-83867-12	105 cn
	MB 410-256031/1-A	94
	MB 410-259819/1-A	117
	LCS 410-256031/2-A	81
	LCS 410-259819/2-A	116
MW-106S MS	410-83867-5 MS	77
MW106D MS	410-83867-6 MS	99
MW-106S MSD	410-83867-5 MSD	73
MW106D MSD	410-83867-6 MSD	95

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUN01BFS-16.d

Lab ID: LCS 410-256031/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	289	115	70-130	
BFS_A2B3	4.72	5.59	119	70-130	
BFS_A3B	35.8	39.7	111	70-130	
BFS_A3B2	47.2	72.5	154	70-130	*+
BFS_A4B	19.8	23.9	121	70-130	
BFS_AB2	32.1	35.9	112	70-130	
BFS_AB3	268	329	123	70-130	
BFS_B3	114	138	121	70-130	
BFS_B4	62.2	75.4	121	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUN01BFS-46.d

Lab ID: LCS 410-259819/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	260	104	70-130	
BFS_A2B3	4.72	4.86	103	70-130	
BFS_A3B	35.8	34.5	96	70-130	
BFS_A3B2	47.2	64.7	137	70-130	*+
BFS_A4B	19.8	20.8	105	70-130	
BFS_AB2	32.1	30.5	95	70-130	
BFS_AB3	268	283	106	70-130	
BFS_B3	114	117	102	70-130	
BFS_B4	62.2	68.3	110	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUN01BFS-39.d

Lab ID: 410-83867-5 MS

Client ID: MW-106S MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	212	ND	453	214	70-130	F1
BFS_A2B3	4.00	ND	9.65	241	70-130	F1
BFS_A3B	30.4	ND	95.6	314	70-130	F1
BFS_A3B2	40.0	ND	101	253	70-130	F1
BFS_A4B	16.8	ND	42.3	252	70-130	F1
BFS_AB2	27.2	ND	90.4	332	70-130	F1
BFS_AB3	227	ND	636	280	70-130	F1
BFS_B3	96.8	ND	263	271	70-130	F1
BFS_B4	52.8	ND	143	271	70-130	F1

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUN01BFS-48.d

Lab ID: 410-83867-6 MS

Client ID: MW106D MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	233	0.39 J	352	151	70-130	F1
BFS_A2B3	4.39	ND	7.79	177	70-130	F1
BFS_A3B	33.4	ND	74.5	223	70-130	F1
BFS_A3B2	43.9	ND	77.5	177	70-130	F1
BFS_A4B	18.4	ND	32.5	176	70-130	F1
BFS_AB2	29.9	ND	70.2	235	70-130	F1
BFS_AB3	249	0.57 J	458	183	70-130	F1
BFS_B3	106	ND	211	199	70-130	F1
BFS_B4	58.0	ND	103	178	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUN01BFS-40.d

Lab ID: 410-83867-5 MSD

Client ID: MW-106S MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	212	500	236	10	30	70-130	F1
BFS_A2B3	4.00	10.9	272	12	30	70-130	F1
BFS_A3B	30.4	107	350	11	30	70-130	F1
BFS_A3B2	40.0	110	274	8	30	70-130	F1
BFS_A4B	16.8	45.4	270	7	30	70-130	F1
BFS_AB2	27.2	96.3	354	6	30	70-130	F1
BFS_AB3	227	641	282	1	30	70-130	F1
BFS_B3	96.9	294	303	11	30	70-130	F1
BFS_B4	52.9	150	284	5	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUN01BFS-49.d

Lab ID: 410-83867-6 MSD

Client ID: MW106D MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	235	381	162	8	30	70-130	F1
BFS_A2B3	4.43	7.75	175	0	30	70-130	F1
BFS_A3B	33.7	80.7	240	8	30	70-130	F1
BFS_A3B2	44.3	86.2	194	11	30	70-130	F1
BFS_A4B	18.6	34.0	183	5	30	70-130	F1
BFS_AB2	30.1	73.5	244	5	30	70-130	F1
BFS_AB3	252	492	195	7	30	70-130	F1
BFS_B3	107	222	207	5	30	70-130	F1
BFS_B4	58.5	107	182	3	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Lab File ID: 22JUN01BFS-15.d

Lab Sample ID: MB 410-256031/1-A

Matrix: Water

Date Extracted: 05/17/2022 09:01

Instrument ID: 30733

Date Analyzed: 06/01/2022 14:46

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-256031/2-A	22JUN01BFS-16.d	06/01/2022 14:58
MW-109S	410-83867-1	22JUN01BFS-32.d	06/01/2022 18:20
MW-109S DL	410-83867-1 DL	22JUN01BFS-33.d	06/01/2022 18:33
MW-109D	410-83867-2	22JUN01BFS-34.d	06/01/2022 18:45
MW-124S	410-83867-3	22JUN01BFS-35.d	06/01/2022 18:58
MW-124D	410-83867-4	22JUN01BFS-36.d	06/01/2022 19:11
MW-106S	410-83867-5	22JUN01BFS-37.d	06/01/2022 19:23
MW-106S MS	410-83867-5 MS	22JUN01BFS-39.d	06/01/2022 19:48
MW-106S MSD	410-83867-5 MSD	22JUN01BFS-40.d	06/01/2022 20:02
DUP1_05112022	410-83867-7	22JUN01BFS-41.d	06/01/2022 20:15
DUP2_05112022	410-83867-8	22JUN01BFS-42.d	06/01/2022 20:27
EB_05112022	410-83867-9	22JUN01BFS-43.d	06/01/2022 20:40

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Lab File ID: 22JUN01BFS-45.d

Lab Sample ID: MB 410-259819/1-A

Matrix: Water

Date Extracted: 05/27/2022 13:24

Instrument ID: 30733

Date Analyzed: 06/01/2022 21:05

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-259819/2-A	22JUN01BFS-46.d	06/01/2022 21:18
MW106D	410-83867-6	22JUN01BFS-47.d	06/01/2022 21:31
MW106D MS	410-83867-6 MS	22JUN01BFS-48.d	06/01/2022 21:43
MW106D MSD	410-83867-6 MSD	22JUN01BFS-49.d	06/01/2022 21:56
MW-111S	410-83867-10	22JUN01BFS-50.d	06/01/2022 22:08
MW-111D	410-83867-11	22JUN01BFS-51.d	06/01/2022 22:21
EB_05122022	410-83867-12	22JUN01BFS-52.d	06/01/2022 22:34

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-83867-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 06/01/2022 13:42
 Calibration ID: 39195

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4485996	5.07				
UPPER LIMIT		6728994	5.47				
LOWER LIMIT		2242998	4.67				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-260772/11		4367531	5.08				
ICV 410-260772/12		4196839	5.08				
CCV 410-260981/1		4561772	5.07				
MB 410-256031/1-A		4638761	5.08				
LCS 410-256031/2-A		5159877	5.08				
CCV 410-260981/14		4694877	5.07				
410-83867-1	MW-109S	4152516	5.08				
410-83867-1 DL	MW-109S DL	4414275	5.07				
410-83867-2	MW-109D	4919967	5.08				
410-83867-3	MW-124S	3606409	5.08				
410-83867-4	MW-124D	4724454	5.07				
410-83867-5	MW-106S	4698850	5.08				
CCV 410-260981/25		4378964	5.07				
410-83867-5 MS	MW-106S MS	3981817	5.08				
410-83867-5 MSD	MW-106S MSD	4249408	5.08				
410-83867-7	DUP1_05112022	3469152	5.08				
410-83867-8	DUP2_05112022	4951406	5.08				
410-83867-9	EB_05112022	4872644	5.08				
CCV 410-260981/31		4658508	5.08				
MB 410-259819/1-A		4022497	5.08				
LCS 410-259819/2-A		4142227	5.07				
410-83867-6	MW106D	2988754	5.08				
410-83867-6 MS	MW106D MS	3947846	5.09				
410-83867-6 MSD	MW106D MSD	3737699	5.08				
410-83867-10	MW-111S	3496499	5.08				
410-83867-11	MW-111D	3634711	5.08				
410-83867-12	EB_05122022	4020388	5.08				
CCV 410-260981/40		4267794	5.07				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S Lab Sample ID: 410-83867-1

Matrix: Water Lab File ID: 22JUN01BFS-32.d

Analysis Method: BFS Date Collected: 05/10/2022 16:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 283.8(mL) Date Analyzed: 06/01/2022 18:20

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	84	^2 cn	1.2	0.35
STL02880	BFS_A3B	10	cn	0.53	0.18
STL02885	BFS_A3B2	44	*+ cn	0.70	0.18
STL02883	BFS_A4B	9.5	cn	0.35	0.18
STL02879	BFS_AB2	25	cn	0.53	0.070
STL02884	BFS_AB3	330	^2 cn	1.3	0.35
STL02881	BFS_B3	78	^2 cn	0.62	0.26
STL02886	BFS_B4	170	cn	0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	80	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-32.d
 Lims ID: 410-83867-A-1-A
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 18:20:41 ALS Bottle#: 27 Worklist Smp#: 19
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:46:05
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.059	4.066	-0.007	0.908	2650727	7.09	20036	
2 BFS_A3B	519.00 > 113.00	4.135	4.154	-0.019	0.925	1134611	2.89	602	
3 BFS_B3	553.00 > 345.00	4.296	4.307	-0.011	0.961	5425967	22.1	5100	
4 BFS_A2B2	569.00 > 229.00	4.396	4.407	-0.011	0.984	5107886	23.9	5810	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.468	4.481	-0.013	0.880	535200	3.98	79.6	2201
5 BFS_A4B	585.00 > 113.00	4.487	4.490	-0.003	1.004	1447617	2.70	1683	
7 BFS_AB3	619.00 > 229.00	4.657	4.660	-0.003	1.042	18081114	92.8	12236	
8 BFS_A3B2	635.00 > 113.00	4.760	4.772	-0.012	1.065	4372964	12.4	3751	
9 BFS_B4	669.00 > 461.00	4.886	4.897	-0.011	1.093	5296566	48.3	4266	
10 BFS_A2B3	685.00 > 571.00	4.997	5.006	-0.009	1.118	282165	25.9	2466	E
* 11 13C2 PFOA	415.00 > 370.00	5.076	5.085	-0.009		4152516	5.00	3089	E

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-32.d

Injection Date: 01-Jun-2022 18:20:41

Instrument ID: 30733

Lims ID: 410-83867-A-1-A

Lab Sample ID: 410-83867-1

Client ID: MW-109S

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 19

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

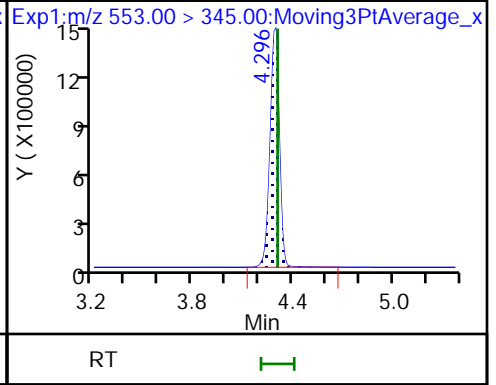
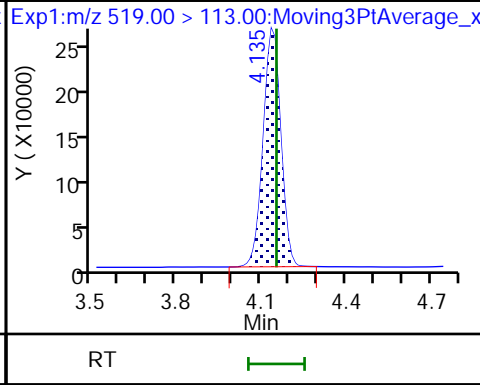
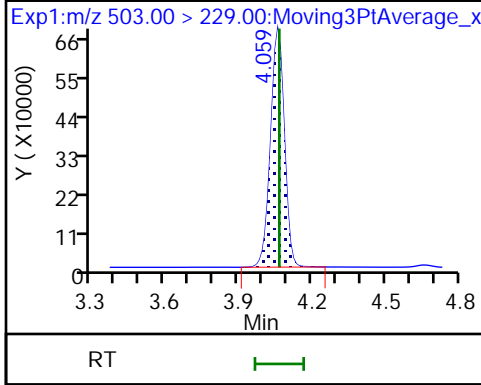
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

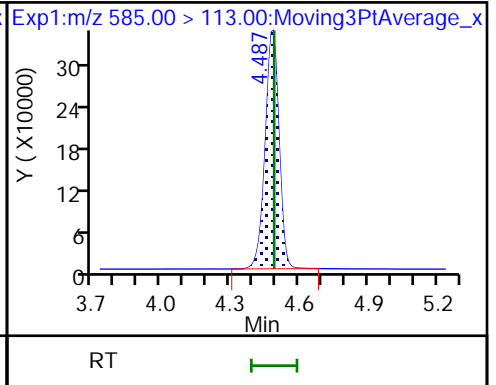
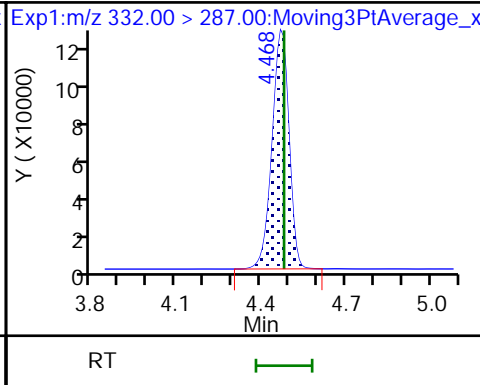
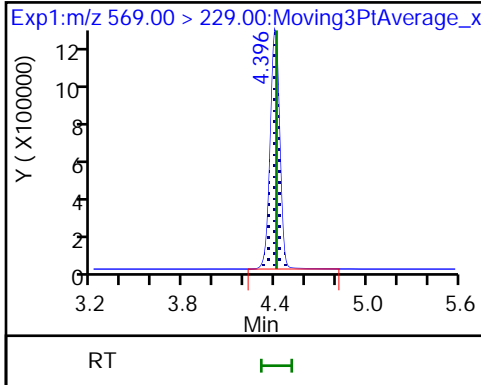
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

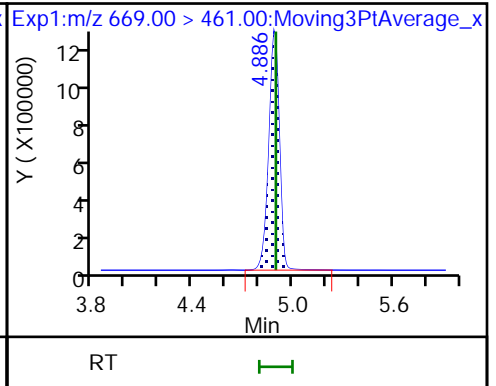
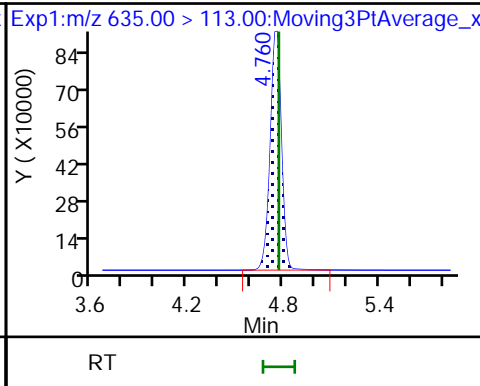
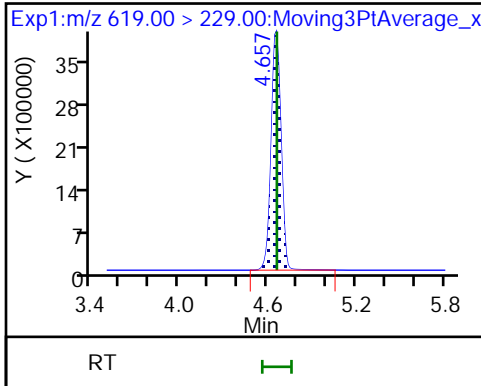
5 BFS_A4B



7 BFS_AB3

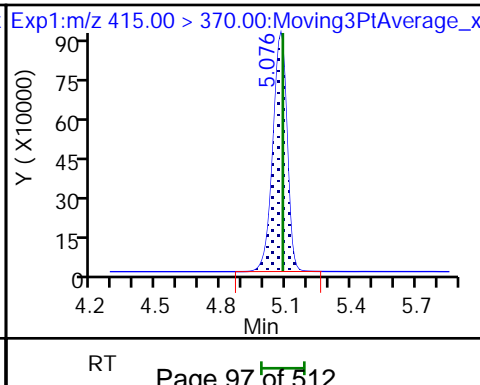
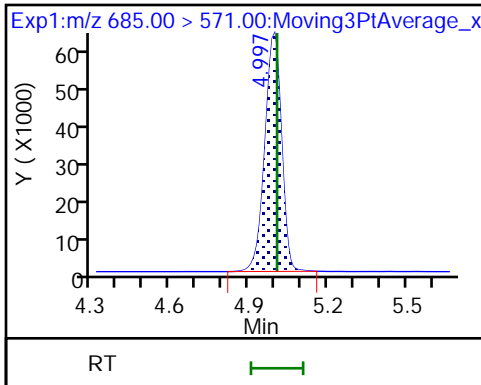
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S DL Lab Sample ID: 410-83867-1 DL

Matrix: Water Lab File ID: 22JUN01BFS-33.d

Analysis Method: BFS Date Collected: 05/10/2022 16:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 283.8(mL) Date Analyzed: 06/01/2022 18:33

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02887	BFS_A2B3	78	cn	9.7	3.5

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-33.d
 Lims ID: 410-83867-A-1-A
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 18:33:18 ALS Bottle#: 47 Worklist Smp#: 20
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83867-A-1-A 10x
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:46:25
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.046	4.066	-0.020	0.907	240130	0.4767	3259	
2 BFS_A3B	519.00 > 113.00	4.132	4.154	-0.022	0.926	96400	0.1823	206	
3 BFS_B3	553.00 > 345.00	4.284	4.307	-0.023	0.960	434674	1.30	649	
4 BFS_A2B2	569.00 > 229.00	4.392	4.407	-0.015	0.984	445059	1.53	860	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.464	4.481	-0.017	0.880	72134	0.5049	101	845
5 BFS_A4B	585.00 > 113.00	4.473	4.490	-0.017	1.002	116794	0.1618	658	
7 BFS_AB3	619.00 > 229.00	4.651	4.660	-0.009	1.042	1561473	5.78	2264	
8 BFS_A3B2	635.00 > 113.00	4.753	4.772	-0.019	1.065	386190	0.8131	868	
9 BFS_B4	669.00 > 461.00	4.879	4.897	-0.018	1.093	581679	3.93	1226	
10 BFS_A2B3	685.00 > 571.00	4.980	5.006	-0.026	1.116	32367	2.20	587	M
* 11 13C2 PFOA	415.00 > 370.00	5.069	5.085	-0.016		4414275	5.00	2640	M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-33.d

Injection Date: 01-Jun-2022 18:33:18

Instrument ID: 30733

Lims ID: 410-83867-A-1-A

Lab Sample ID: 410-83867-1

Client ID: MW-109S

Operator ID: US19_USR_INS20260

ALS Bottle#: 47

Worklist Smp#: 20

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

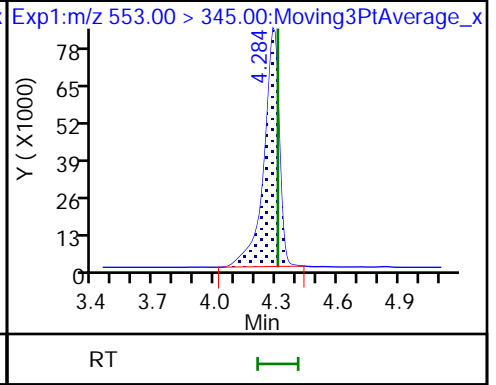
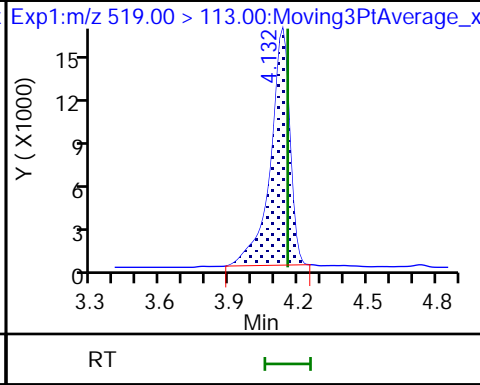
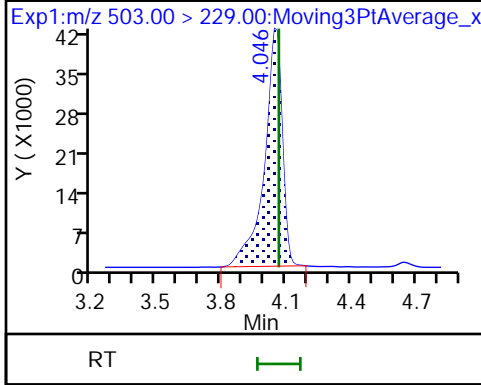
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

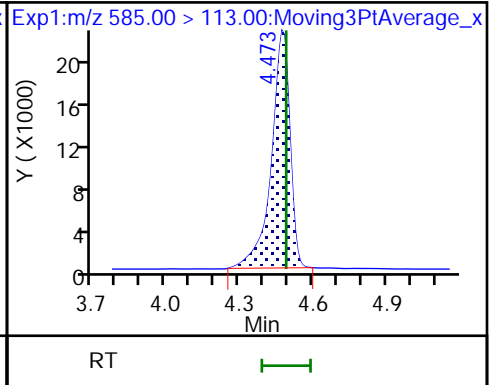
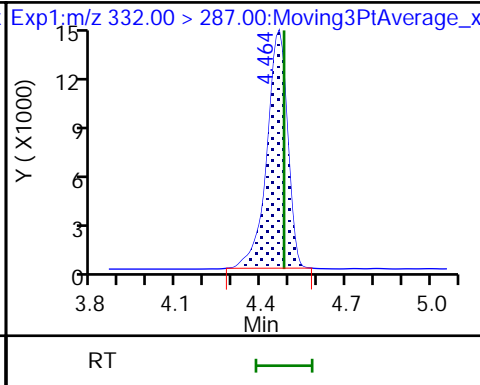
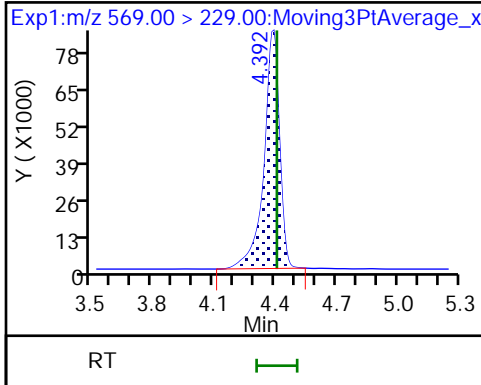
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

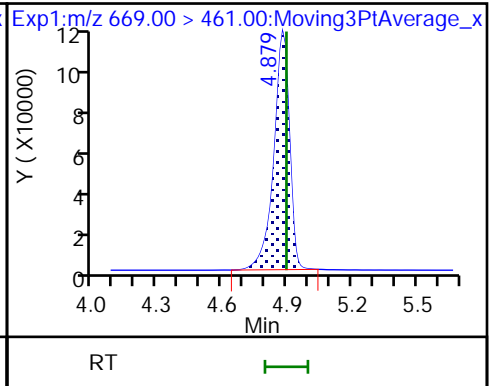
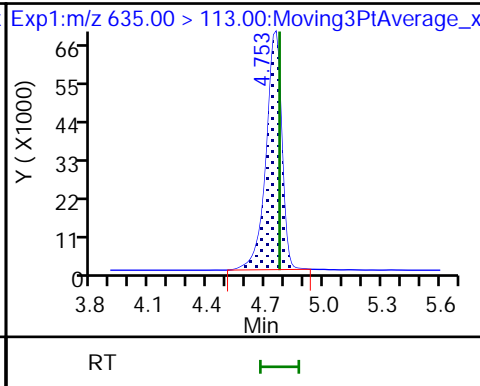
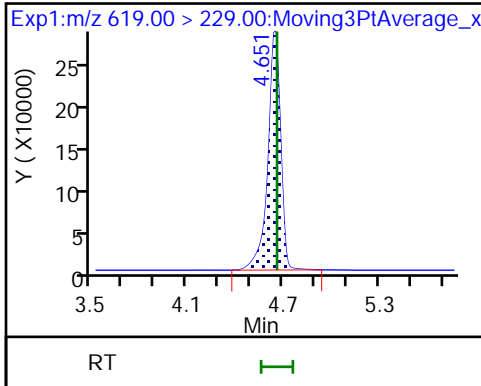
5 BFS_A4B



7 BFS_AB3

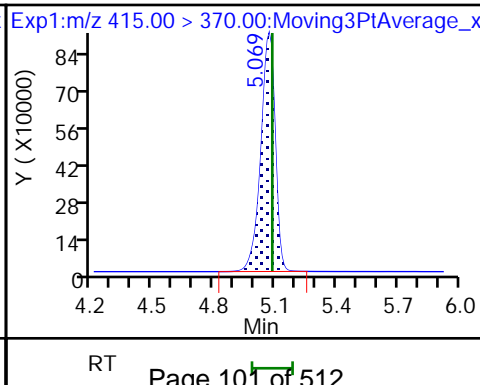
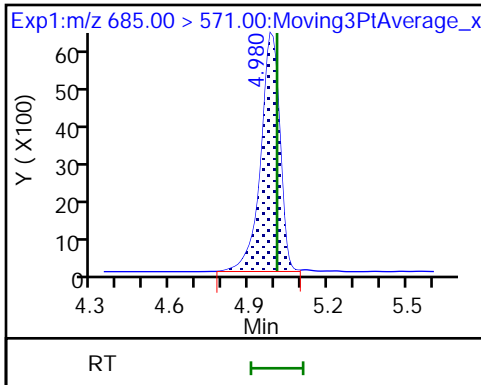
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

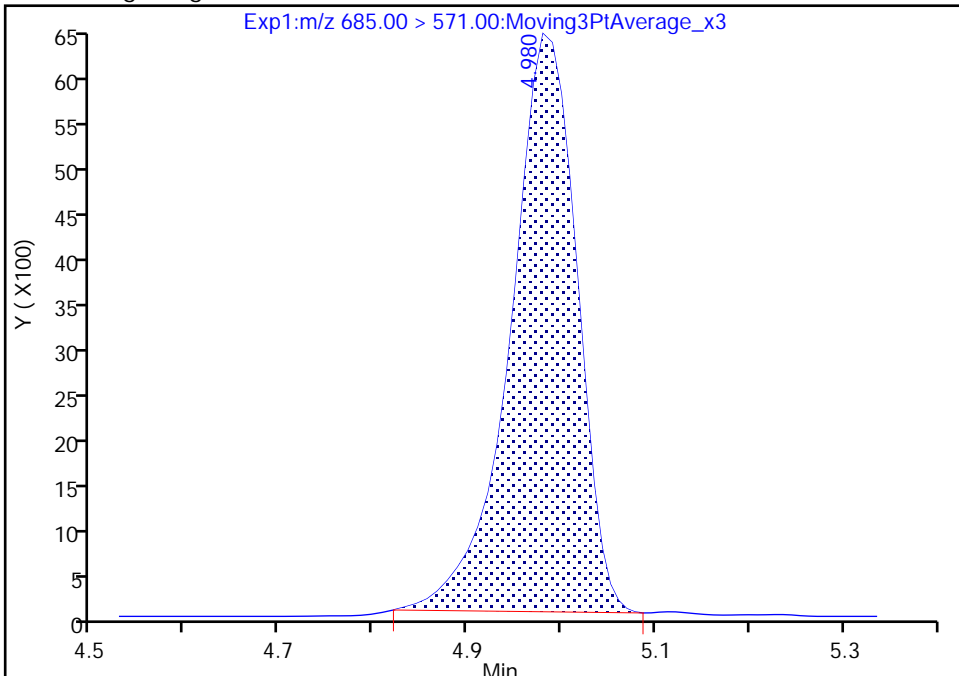
Data File:	\\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-33.d				
Injection Date:	01-Jun-2022 18:33:18	Instrument ID:	30733		
Lims ID:	410-83867-A-1-A	Lab Sample ID:	410-83867-1		
Client ID:	MW-109S				
Operator ID:	US19_USR_INS20260	ALS Bottle#:	47	Worklist Smp#:	20
Injection Vol:	15.0 ul	Dil. Factor:	10.0000		
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA		
Column:		Detector:	EXP1		

10 BFS_A2B3, CAS: STL02887

Signal: 1

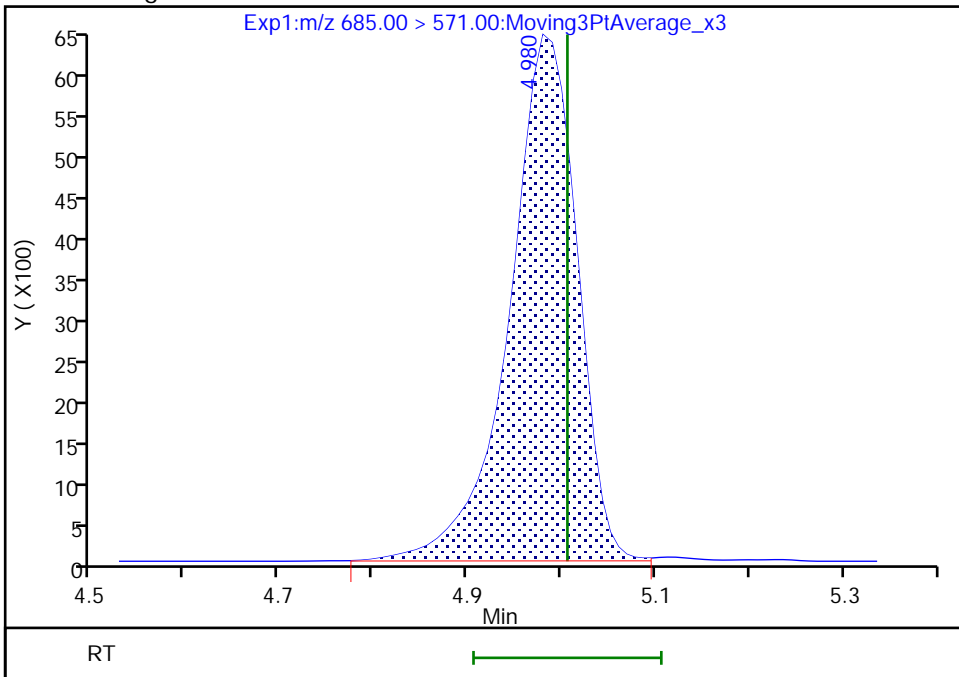
RT: 4.98
Area: 31472
Amount: 2.140453
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 32367
Amount: 2.201323
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109D Lab Sample ID: 410-83867-2

Matrix: Water Lab File ID: 22JUN01BFS-34.d

Analysis Method: BFS Date Collected: 05/10/2022 16:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 271.7(mL) Date Analyzed: 06/01/2022 18:45

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.3	0.37
STL02887	BFS_A2B3	ND	cn	1.0	0.37
STL02880	BFS_A3B	ND	cn	0.55	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.74	0.18
STL02883	BFS_A4B	ND	cn	0.37	0.18
STL02879	BFS_AB2	ND	cn	0.55	0.074
STL02884	BFS_AB3	ND	cn	1.4	0.37
STL02881	BFS_B3	ND	cn	0.64	0.28
STL02886	BFS_B4	ND	cn	1.0	0.37

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	76	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-34.d
 Lims ID: 410-83867-A-2-A
 Client ID: MW-109D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 18:45:56 ALS Bottle#: 28 Worklist Smp#: 21
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-021
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:46:39
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.476	4.481	-0.005	0.881	606705	3.81	76.2	2548
* 11 13C2 PFOA	415.00 > 370.00	5.082	5.085	-0.003		4919967	5.00		3199

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-34.d

Injection Date: 01-Jun-2022 18:45:56

Instrument ID: 30733

Lims ID: 410-83867-A-2-A

Lab Sample ID: 410-83867-2

Client ID: MW-109D

Operator ID: US19_USR_INS20260

ALS Bottle#: 28

Worklist Smp#: 21

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

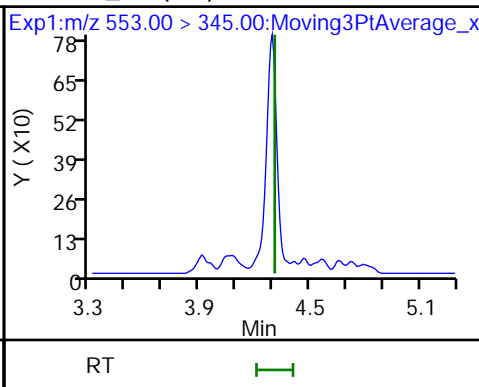
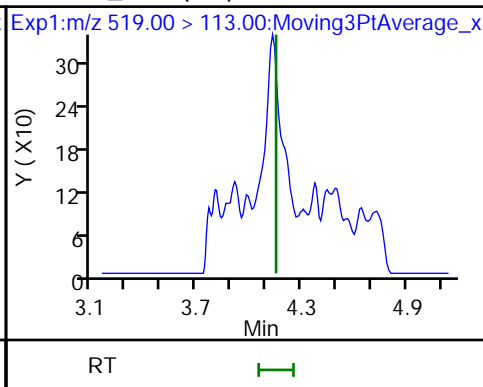
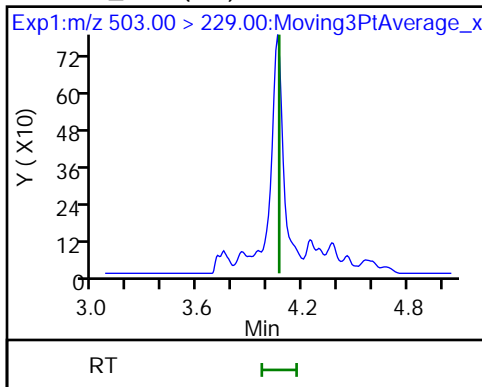
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

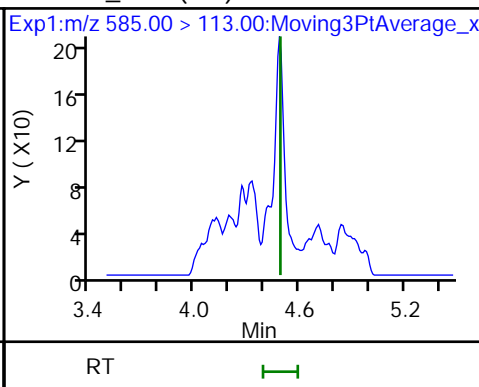
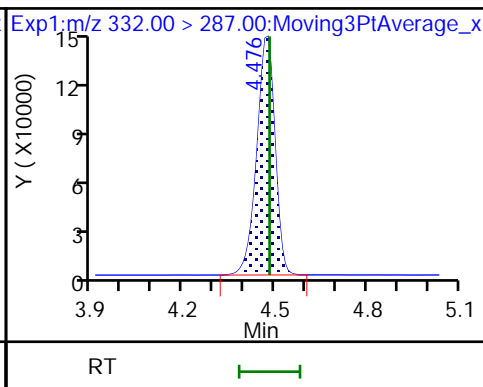
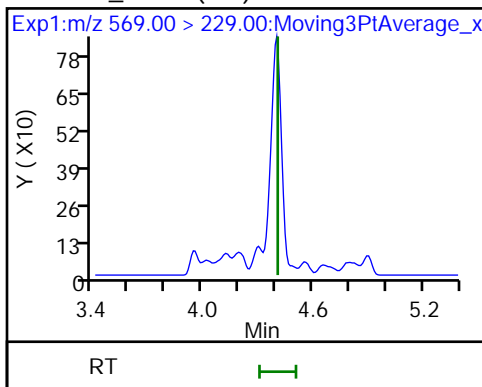
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

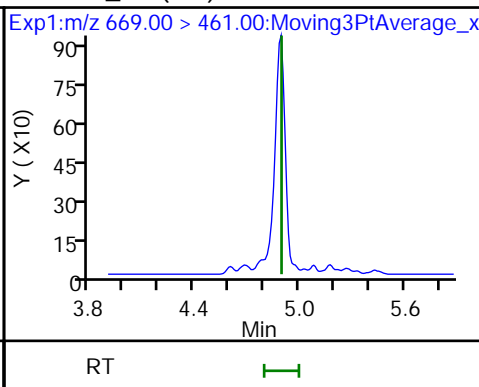
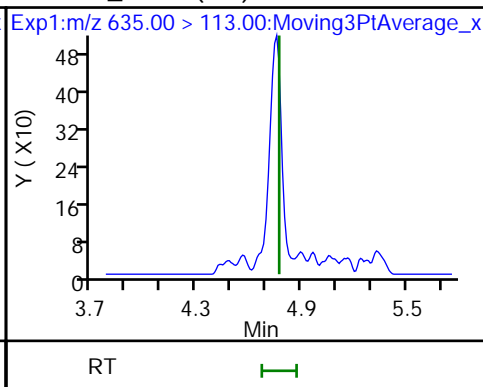
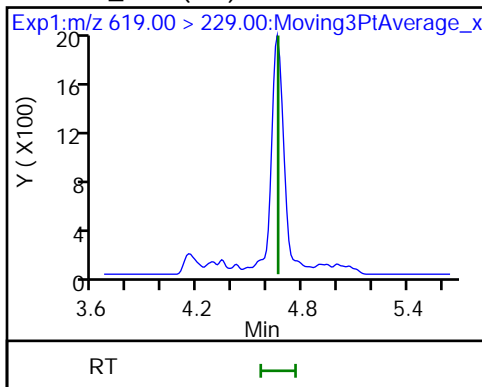
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

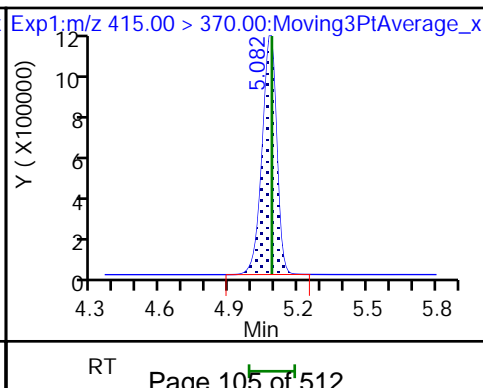
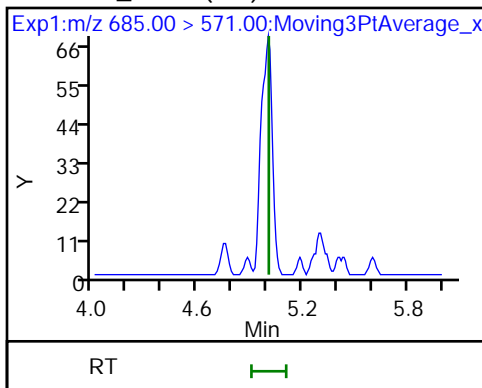
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: MW-124S

Lab Sample ID: 410-83867-3

Matrix: Water

Lab File ID: 22JUN01BFS-35.d

Analysis Method: BFS

Date Collected: 05/11/2022 10:10

Extraction Method: 3535

Date Extracted: 05/17/2022 09:01

Sample wt/vol: 266.3(mL)

Date Analyzed: 06/01/2022 18:58

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	2.0	^2 cn	1.3	0.38
STL02887	BFS_A2B3	ND	cn	1.0	0.38
STL02880	BFS_A3B	ND	cn	0.56	0.19
STL02885	BFS_A3B2	ND	*+ cn	0.75	0.19
STL02883	BFS_A4B	ND	cn	0.38	0.19
STL02879	BFS_AB2	0.76	cn	0.56	0.075
STL02884	BFS_AB3	3.9	^2 cn	1.4	0.38
STL02881	BFS_B3	2.0	^2 cn	0.66	0.28
STL02886	BFS_B4	0.60	J cn	1.0	0.38

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-35.d
 Lims ID: 410-83867-A-3-A
 Client ID: MW-124S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 18:58:32 ALS Bottle#: 29 Worklist Smp#: 22
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-3-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-022
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:47:01
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.063	4.066	-0.003	0.907	69682	0.2027	1496	
3 BFS_B3	553.00 > 345.00	4.296	4.307	-0.011	0.959	123099	0.5412	641	
4 BFS_A2B2	569.00 > 229.00	4.405	4.407	-0.002	0.984	106289	0.5347	408	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.478	4.481	-0.003	0.881	492293	4.22	84.3	2031
7 BFS_AB3	619.00 > 229.00	4.657	4.660	-0.003	1.040	193441	1.05	613	
9 BFS_B4	669.00 > 461.00	4.897	4.897	0.0	1.093	16218	0.1607	172	M
* 11 13C2 PFOA	415.00 > 370.00	5.084	5.085	-0.001		3606409	5.00	2857	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-35.d

Injection Date: 01-Jun-2022 18:58:32

Instrument ID: 30733

Lims ID: 410-83867-A-3-A

Lab Sample ID: 410-83867-3

Client ID: MW-124S

Operator ID: US19_USR_INS20260

ALS Bottle#: 29

Worklist Smp#: 22

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

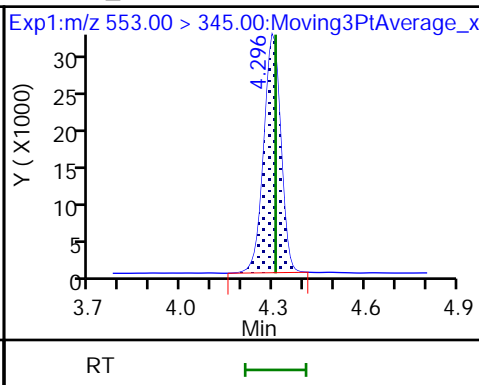
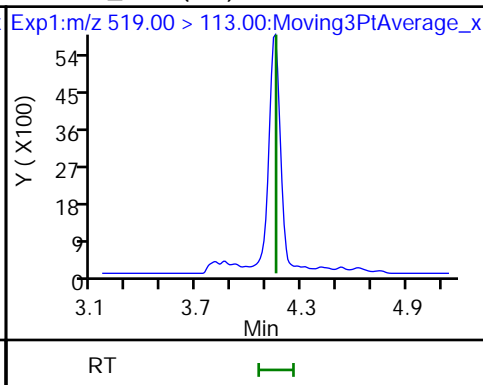
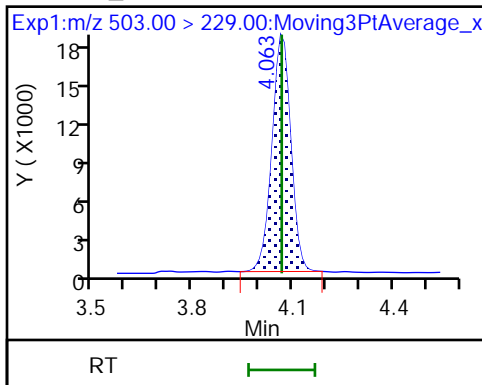
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B (ND)

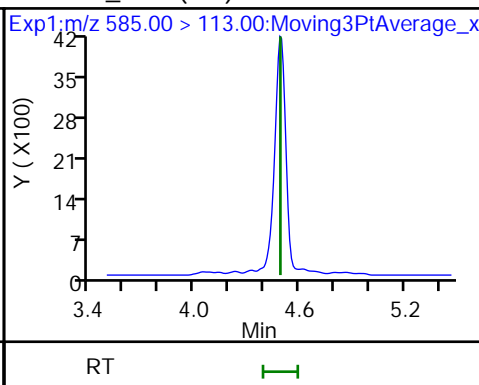
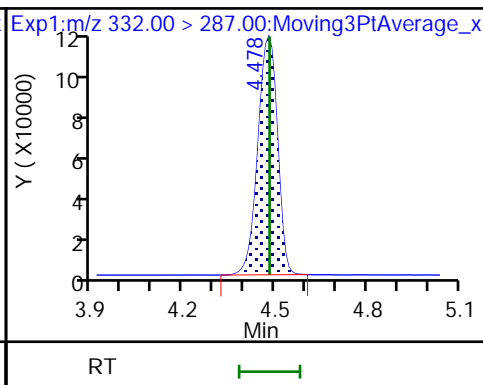
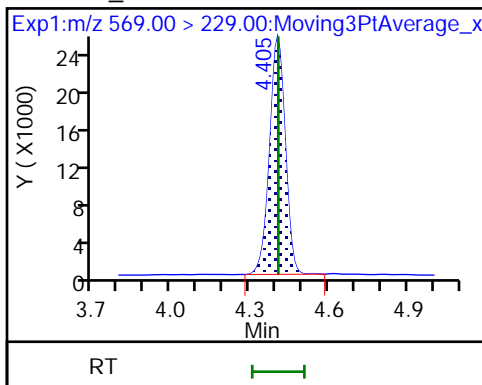
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

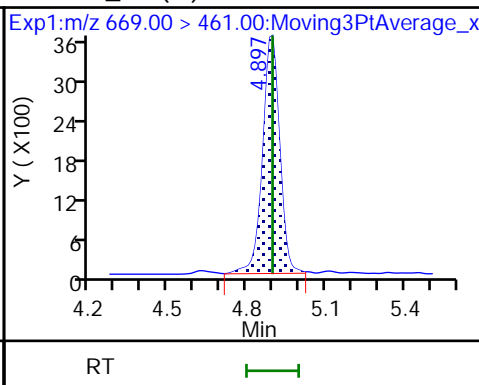
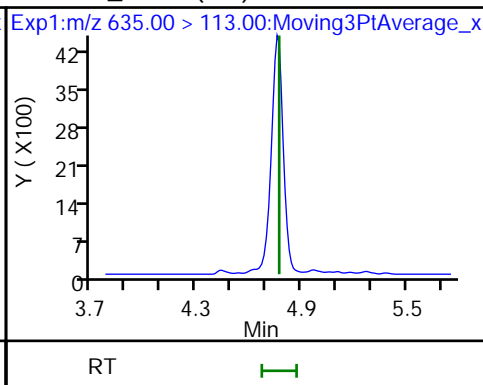
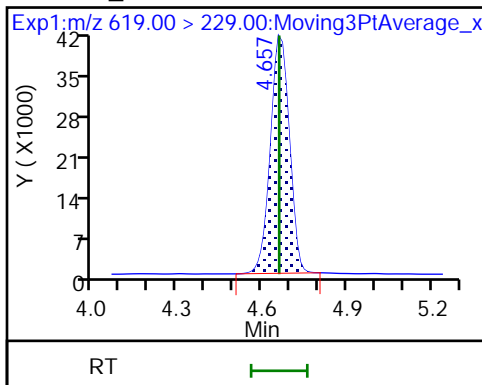
5 BFS_A4B (ND)



7 BFS_AB3

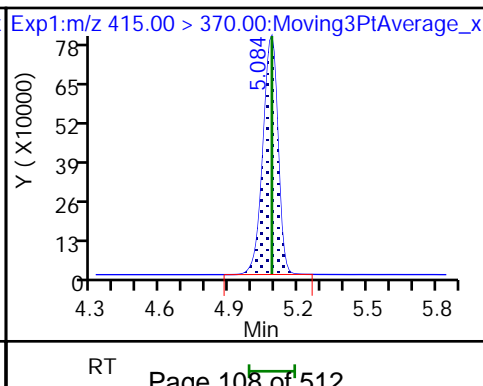
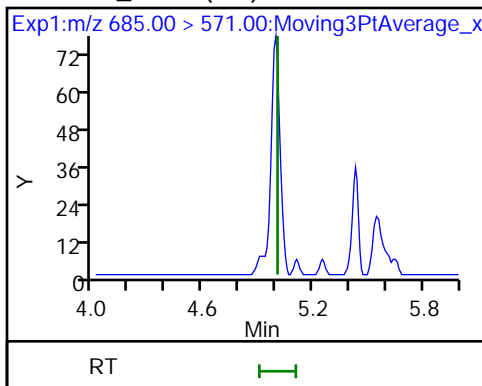
8 BFS_A3B2 (ND)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

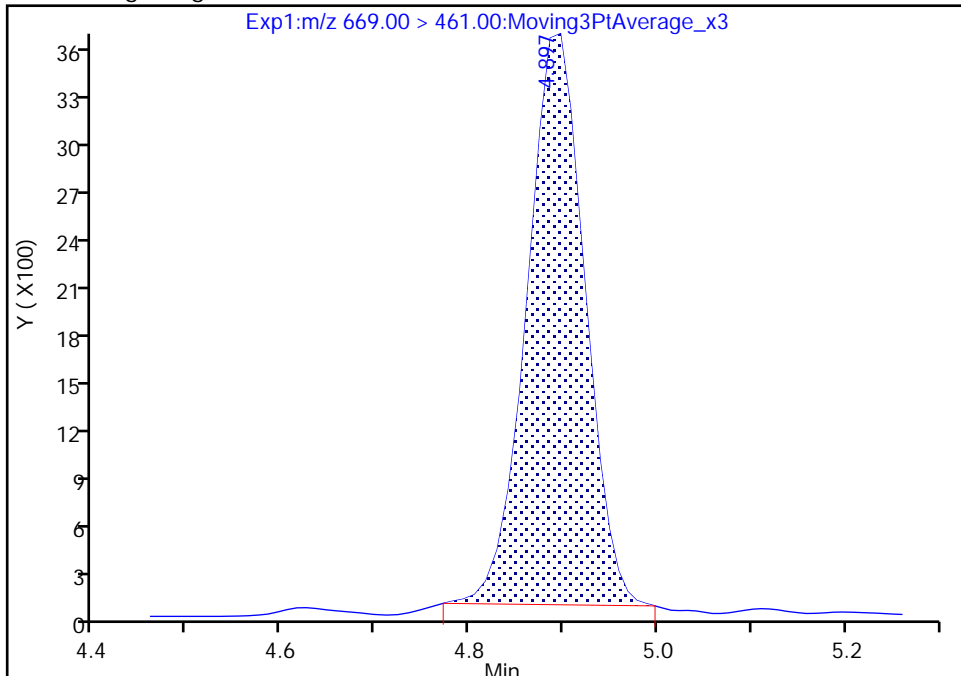
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-35.d
Injection Date: 01-Jun-2022 18:58:32 Instrument ID: 30733
Lims ID: 410-83867-A-3-A Lab Sample ID: 410-83867-3
Client ID: MW-124S
Operator ID: US19_USR_INS20260 ALS Bottle#: 29 Worklist Smp#: 22
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

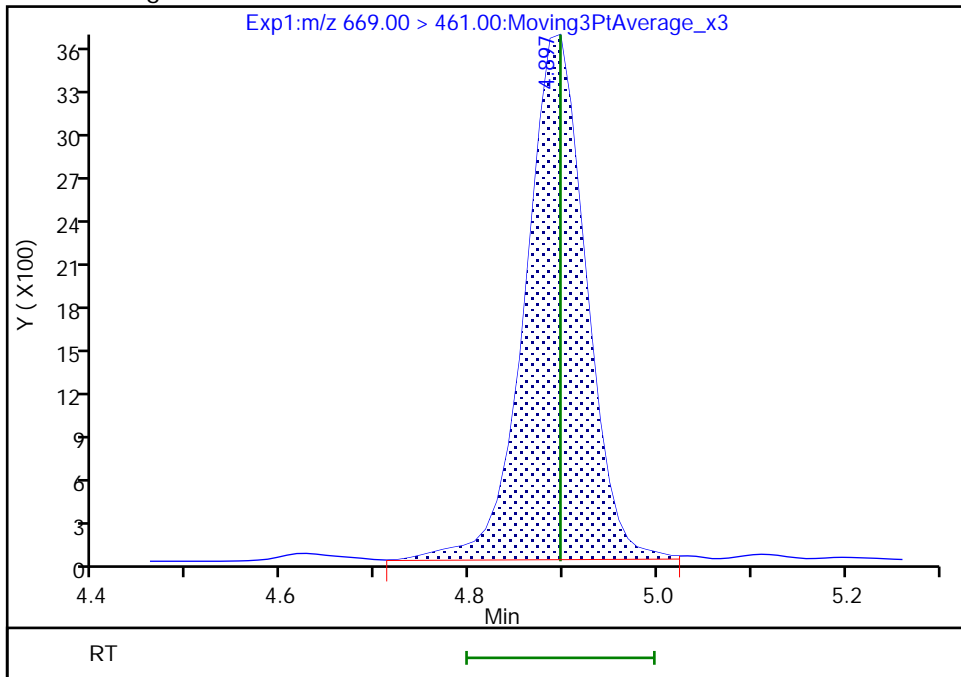
RT: 4.90
Area: 15214
Amount: 0.150719
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 16218
Amount: 0.160665
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:46:57
Audit Action: Manually Integrated

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: MW-124D

Lab Sample ID: 410-83867-4

Matrix: Water

Lab File ID: 22JUN01BFS-36.d

Analysis Method: BFS

Date Collected: 05/11/2022 10:10

Extraction Method: 3535

Date Extracted: 05/17/2022 09:01

Sample wt/vol: 281.9(mL)

Date Analyzed: 06/01/2022 19:11

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.2	0.35
STL02887	BFS_A2B3	ND	cn	0.98	0.35
STL02880	BFS_A3B	ND	cn	0.53	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.71	0.18
STL02883	BFS_A4B	ND	cn	0.35	0.18
STL02879	BFS_AB2	ND	cn	0.53	0.071
STL02884	BFS_AB3	ND	cn	1.3	0.35
STL02881	BFS_B3	ND	cn	0.62	0.27
STL02886	BFS_B4	ND	cn	0.98	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-36.d
 Lims ID: 410-83867-A-4-A
 Client ID: MW-124D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 19:11:09 ALS Bottle#: 30 Worklist Smp#: 23
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-4-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-023
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:47:27
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.476 4.481 -0.005 0.882 564707 3.69 73.9 2535
 * 11 13C2 PFOA
 415.00 > 370.00 5.073 5.085 -0.012 4724454 5.00 3550

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-36.d

Injection Date: 01-Jun-2022 19:11:09

Instrument ID: 30733

Lims ID: 410-83867-A-4-A

Lab Sample ID: 410-83867-4

Client ID: MW-124D

Operator ID: US19_USR_INS20260

ALS Bottle#: 30

Worklist Smp#: 23

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

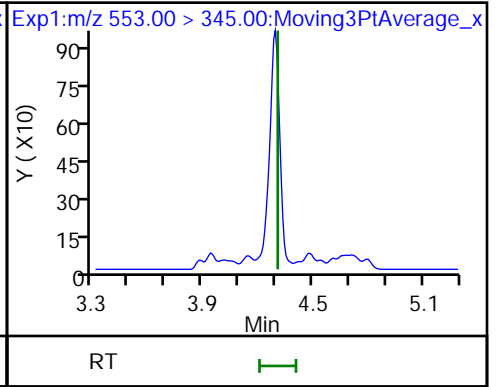
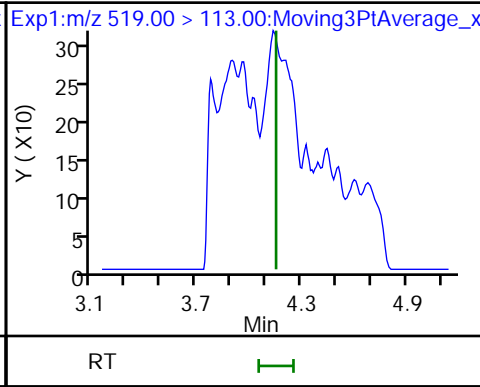
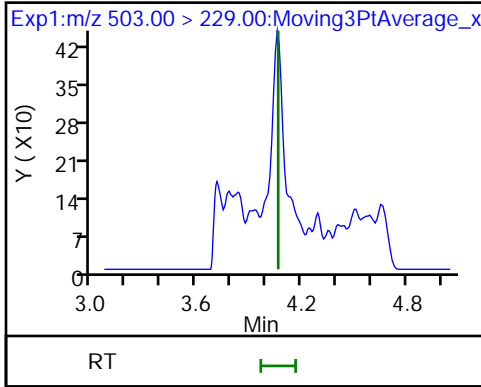
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

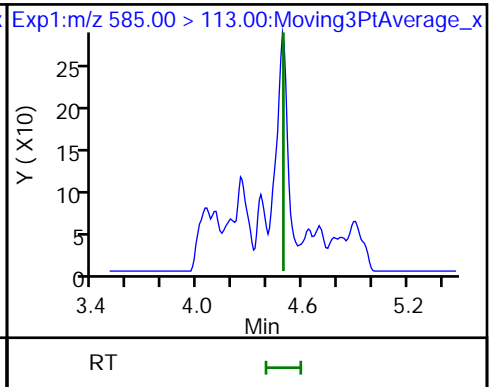
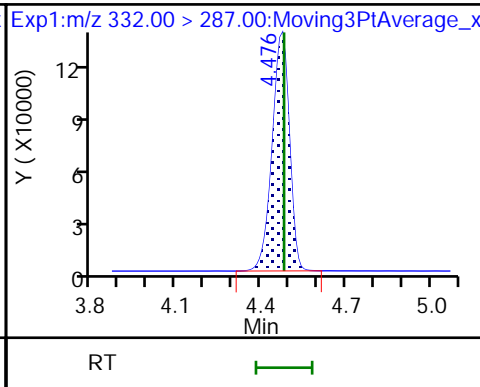
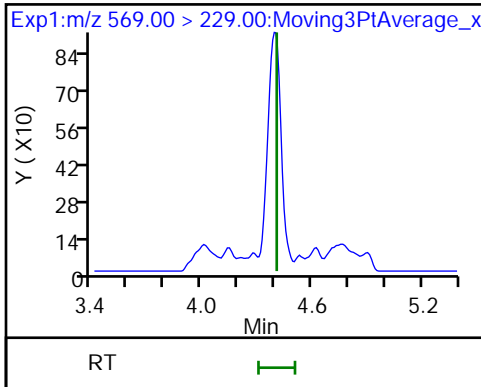
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

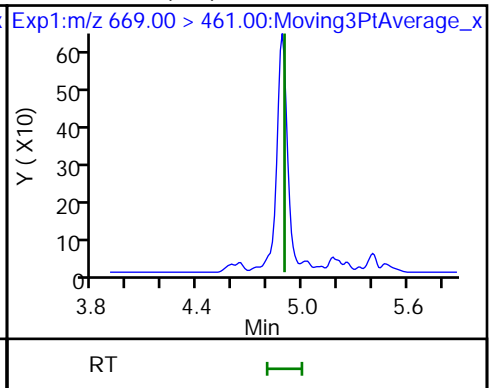
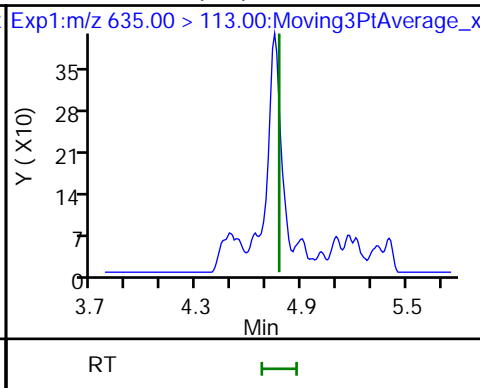
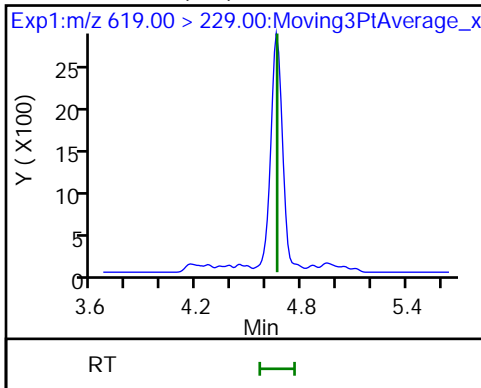
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

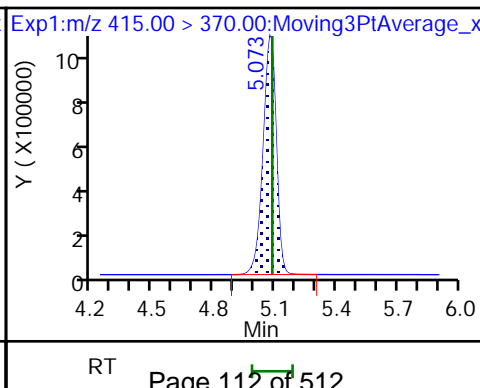
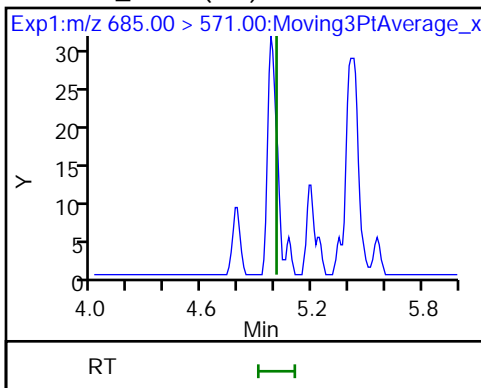
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: MW-106S

Lab Sample ID: 410-83867-5

Matrix: Water

Lab File ID: 22JUN01BFS-37.d

Analysis Method: BFS

Date Collected: 05/11/2022 13:35

Extraction Method: 3535

Date Extracted: 05/17/2022 09:01

Sample wt/vol: 263(mL)

Date Analyzed: 06/01/2022 19:23

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	F1 cn	1.3	0.38
STL02887	BFS_A2B3	ND	F1 cn	1.0	0.38
STL02880	BFS_A3B	ND	F1 cn	0.57	0.19
STL02885	BFS_A3B2	ND	F1 *+ cn	0.76	0.19
STL02883	BFS_A4B	ND	F1 cn	0.38	0.19
STL02879	BFS_AB2	ND	F1 cn	0.57	0.076
STL02884	BFS_AB3	ND	F1 cn	1.4	0.38
STL02881	BFS_B3	ND	F1 cn	0.67	0.29
STL02886	BFS_B4	ND	F1 cn	1.0	0.38

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	79	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-37.d
 Lims ID: 410-83867-A-5-A
 Client ID: MW-106S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 19:23:43 ALS Bottle#: 31 Worklist Smp#: 24
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-5-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-024
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1

Process Host: CTX1680

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA

332.00 > 287.00 4.470 4.481 -0.011 0.881 603679 3.97 79.4 2478

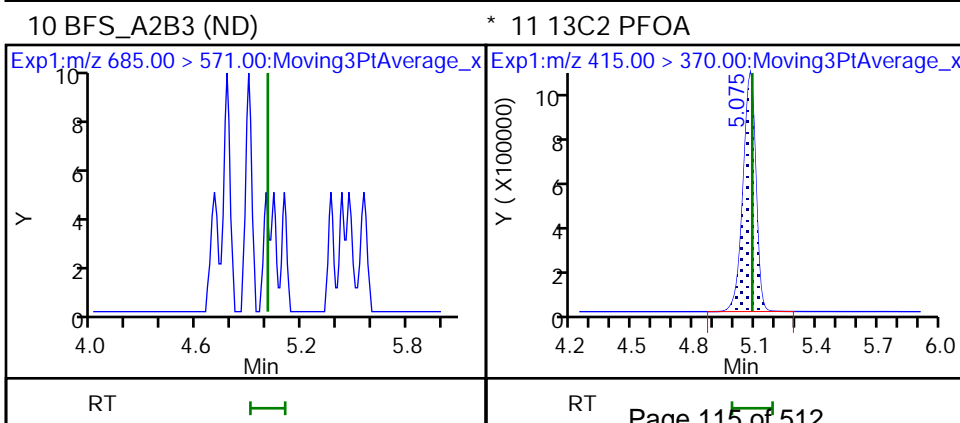
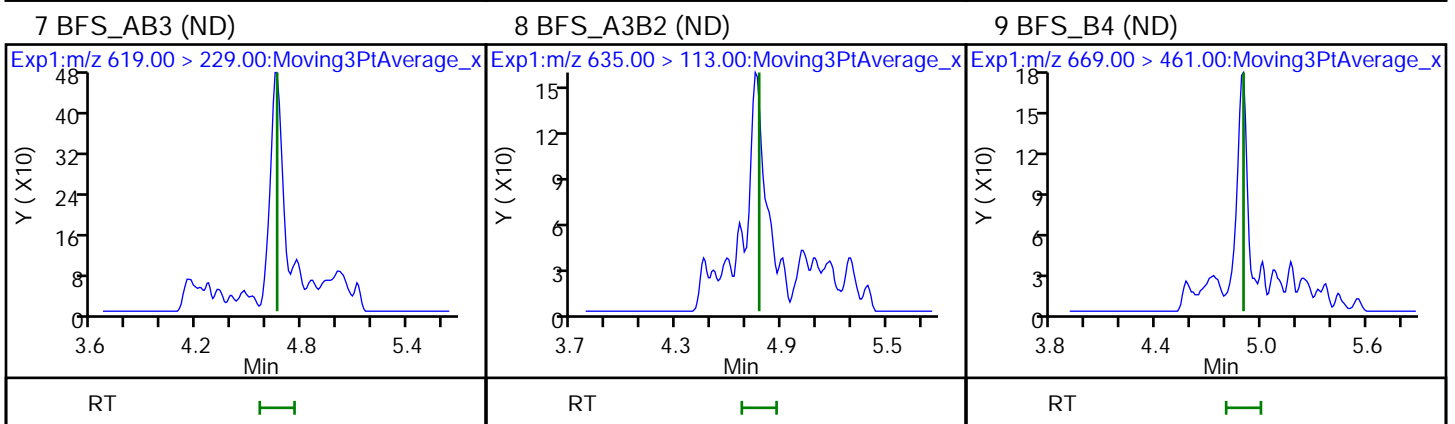
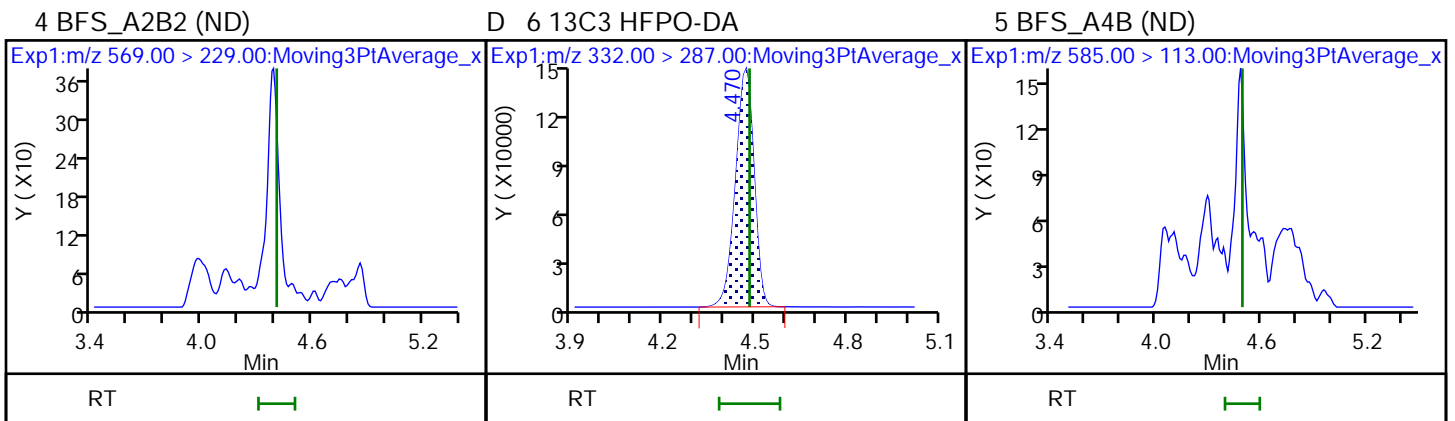
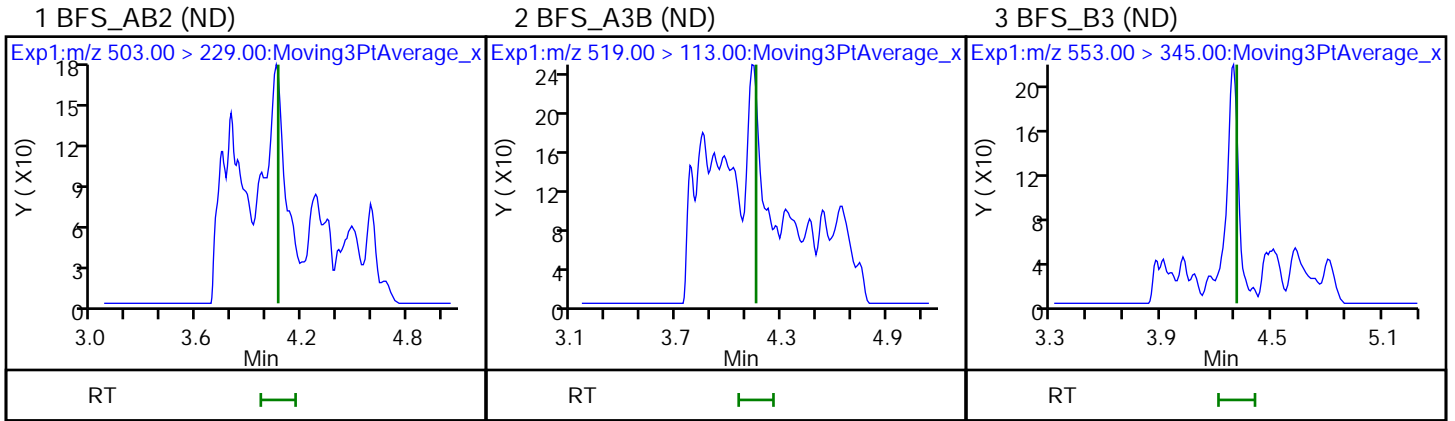
* 11 13C2 PFOA

415.00 > 370.00 5.075 5.085 -0.010 4698850 5.00 3247

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-37.d
Injection Date: 01-Jun-2022 19:23:43 Instrument ID: 30733
Lims ID: 410-83867-A-5-A Lab Sample ID: 410-83867-5
Client ID: MW-106S
Operator ID: US19_USR_INS20260 ALS Bottle#: 31 Worklist Smp#: 24
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: MW106D

Lab Sample ID: 410-83867-6

Matrix: Water

Lab File ID: 22JUN01BFS-47.d

Analysis Method: BFS

Date Collected: 05/11/2022 13:05

Extraction Method: 3535

Date Extracted: 05/27/2022 13:24

Sample wt/vol: 304.5 (mL)

Date Analyzed: 06/01/2022 21:31

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 15 (uL)

GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.39	J F1 ^2 cn	1.1	0.33
STL02887	BFS_A2B3	ND	F1 cn	0.90	0.33
STL02880	BFS_A3B	ND	F1 cn	0.49	0.16
STL02885	BFS_A3B2	ND	*+ F1 cn	0.66	0.16
STL02883	BFS_A4B	ND	F1 cn	0.33	0.16
STL02879	BFS_AB2	ND	F1 cn	0.49	0.066
STL02884	BFS_AB3	0.57	J F1 ^2 cn	1.2	0.33
STL02881	BFS_B3	ND	F1 cn	0.57	0.25
STL02886	BFS_B4	ND	F1 cn	0.90	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-47.d
 Lims ID: 410-83867-A-6-A
 Client ID: MW106D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 21:31:00 ALS Bottle#: 39 Worklist Smp#: 34
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-6-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-034
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:48:57
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
4 BFS_A2B2	569.00 > 229.00	4.399	4.407	-0.008	0.984	22434	0.1183	78.0	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.472	4.481	-0.009	0.881	469507	4.85	97.1	2157
7 BFS_AB3	619.00 > 229.00	4.650	4.660	-0.010	1.040	30596	0.1736	77.3	
* 11 13C2 PFOA	415.00 > 370.00	5.075	5.085	-0.010		2988754	5.00	2774	

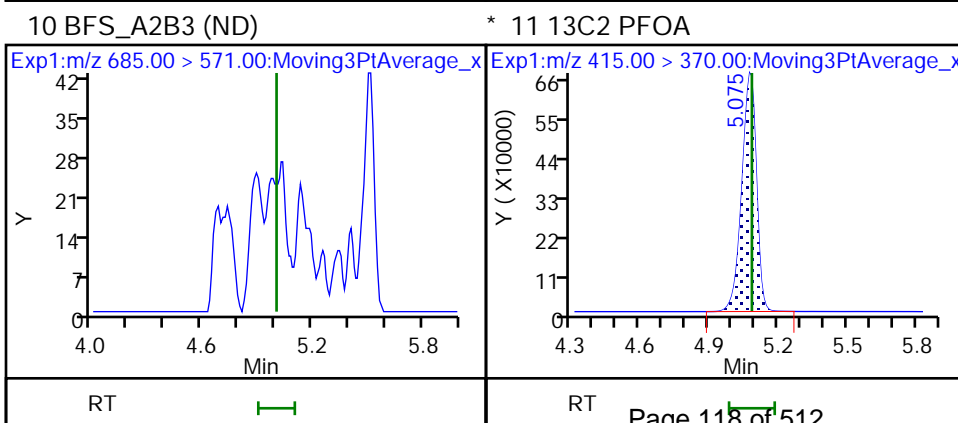
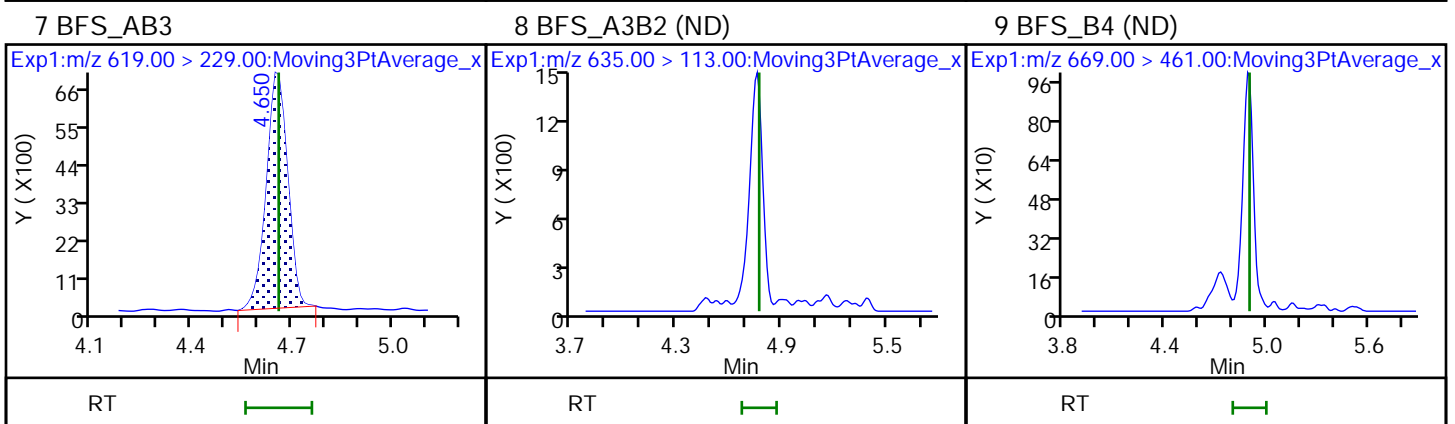
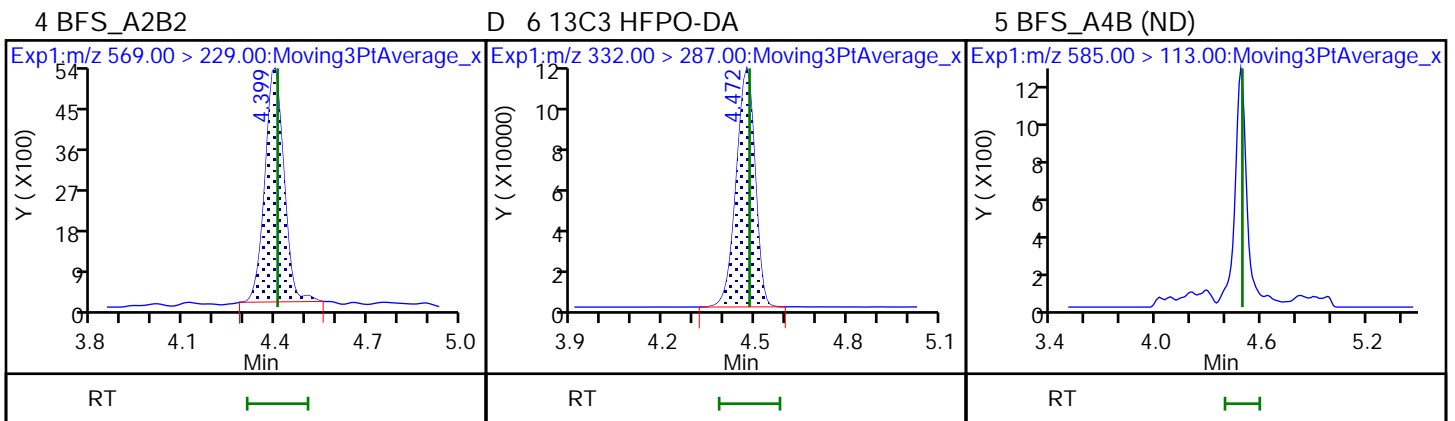
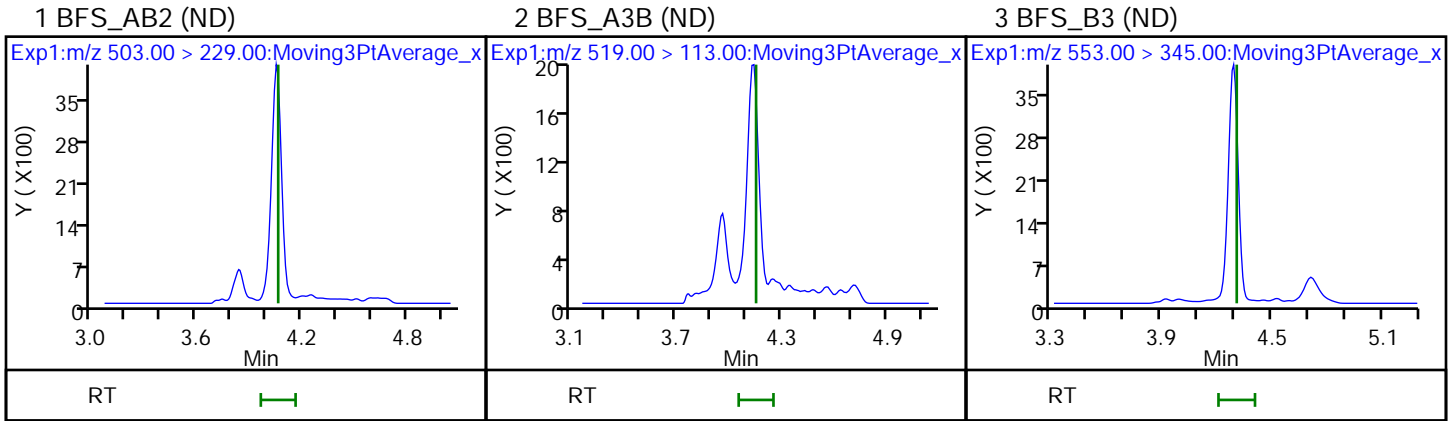
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-47.d
Injection Date: 01-Jun-2022 21:31:00 Instrument ID: 30733
Lims ID: 410-83867-A-6-A Lab Sample ID: 410-83867-6
Client ID: MW106D
Operator ID: US19_USR_INS20260 ALS Bottle#: 39 Worklist Smp#: 34
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP1_05112022 Lab Sample ID: 410-83867-7

Matrix: Water Lab File ID: 22JUN01BFS-41.d

Analysis Method: BFS Date Collected: 05/11/2022 00:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 300.7(mL) Date Analyzed: 06/01/2022 20:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.43	J ^2 cn	1.2	0.33
STL02887	BFS_A2B3	ND	cn	0.91	0.33
STL02880	BFS_A3B	ND	cn	0.50	0.17
STL02885	BFS_A3B2	ND	*+ cn	0.67	0.17
STL02883	BFS_A4B	ND	cn	0.33	0.17
STL02879	BFS_AB2	ND	cn	0.50	0.067
STL02884	BFS_AB3	0.68	J ^2 cn	1.2	0.33
STL02881	BFS_B3	ND	cn	0.58	0.25
STL02886	BFS_B4	ND	cn	0.91	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-41.d
 Lims ID: 410-83867-A-7-B
 Client ID: DUP1_05112022
 Sample Type: Client
 Inject. Date: 01-Jun-2022 20:15:21 ALS Bottle#: 34 Worklist Smp#: 28
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-7-B
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-028
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:48:01
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
4 BFS_A2B2									
569.00 > 229.00	4.404	4.407	-0.003	0.986	24802	0.1305		73.6	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.468	4.481	-0.013	0.879	470701	4.19	83.8	2306	
7 BFS_AB3									
619.00 > 229.00	4.657	4.660	-0.003	1.042	36363	0.2058		71.5	
* 11 13C2 PFOA									
415.00 > 370.00	5.084	5.085	-0.001		3469152	5.00		2883	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-41.d

Injection Date: 01-Jun-2022 20:15:21

Instrument ID: 30733

Lims ID: 410-83867-A-7-B

Lab Sample ID: 410-83867-7

Client ID: DUP1_05112022

Operator ID: US19_USR_INS20260

ALS Bottle#: 34

Worklist Smp#: 28

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

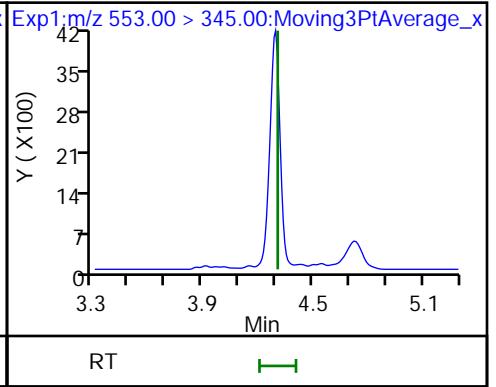
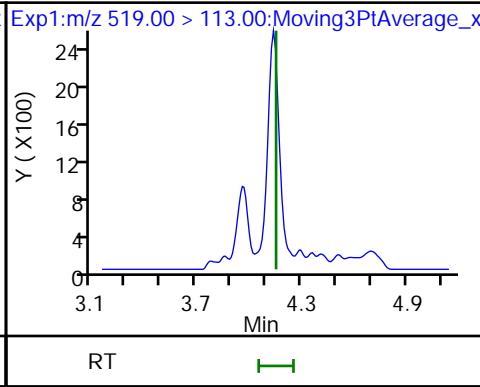
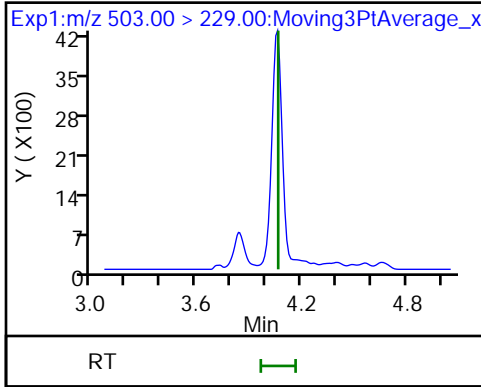
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

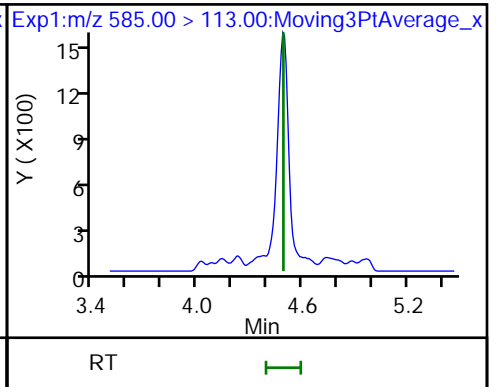
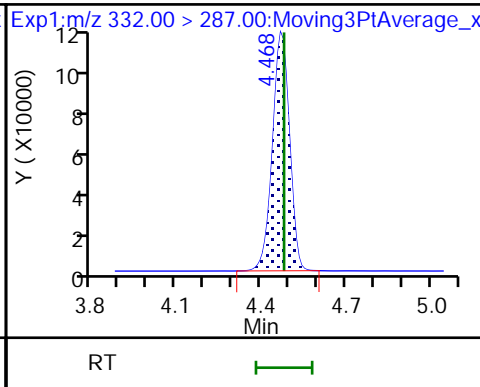
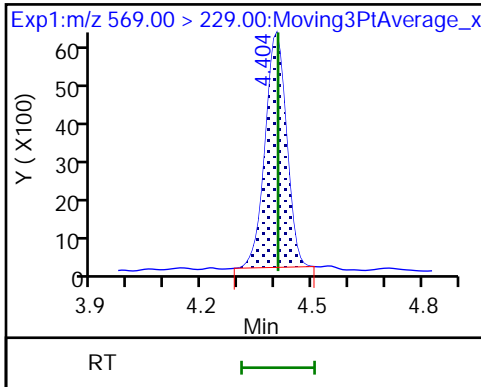
3 BFS_B3 (ND)



4 BFS_A2B2

D 6 13C3 HFPO-DA

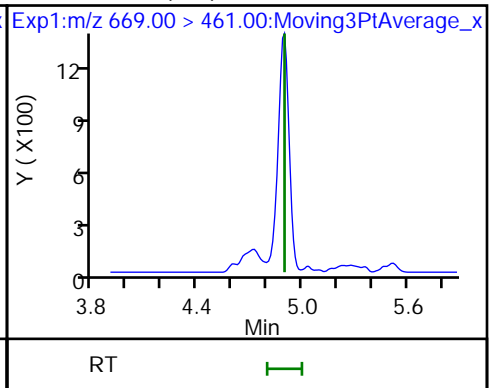
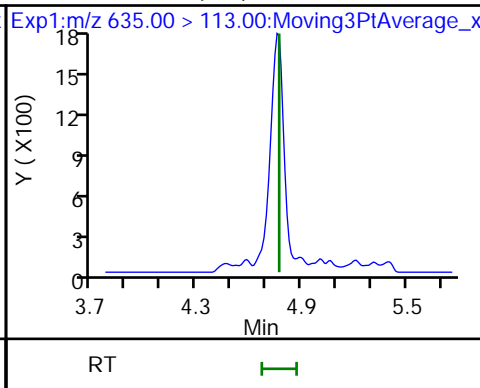
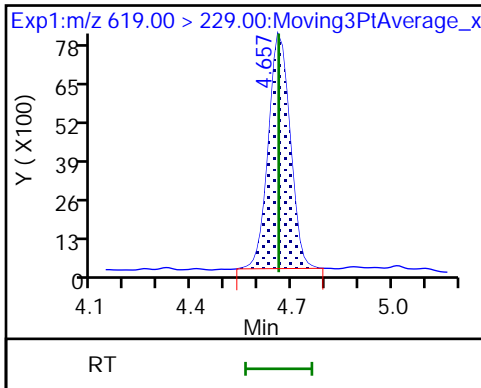
5 BFS_A4B (ND)



7 BFS_AB3

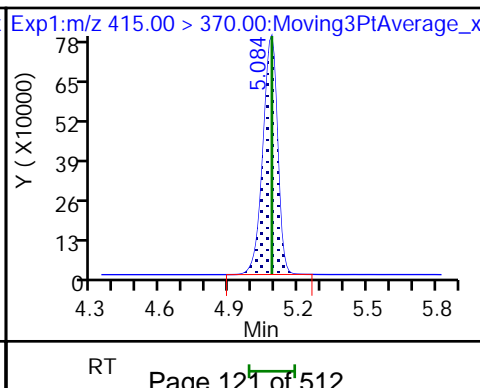
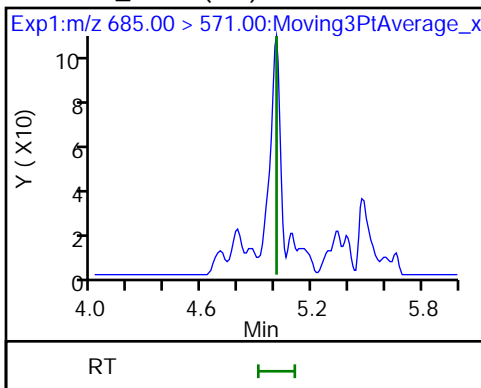
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP2_05112022 Lab Sample ID: 410-83867-8

Matrix: Water Lab File ID: 22JUN01BFS-42.d

Analysis Method: BFS Date Collected: 05/11/2022 00:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 267.2 (mL) Date Analyzed: 06/01/2022 20:27

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.3	0.37
STL02887	BFS_A2B3	ND	cn	1.0	0.37
STL02880	BFS_A3B	ND	cn	0.56	0.19
STL02885	BFS_A3B2	ND	*+ cn	0.75	0.19
STL02883	BFS_A4B	ND	cn	0.37	0.19
STL02879	BFS_AB2	ND	cn	0.56	0.075
STL02884	BFS_AB3	ND	cn	1.4	0.37
STL02881	BFS_B3	ND	cn	0.65	0.28
STL02886	BFS_B4	ND	cn	1.0	0.37

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-42.d
 Lims ID: 410-83867-A-8-A
 Client ID: DUP2_05112022
 Sample Type: Client
 Inject. Date: 01-Jun-2022 20:27:57 ALS Bottle#: 35 Worklist Smp#: 29
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-8-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-029
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 02-Jun-2022 06:48:09
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.477	4.481	-0.004	0.881	521216	3.25	65.0	2728
* 11 13C2 PFOA	415.00 > 370.00	5.084	5.085	-0.001		4951406	5.00		3119

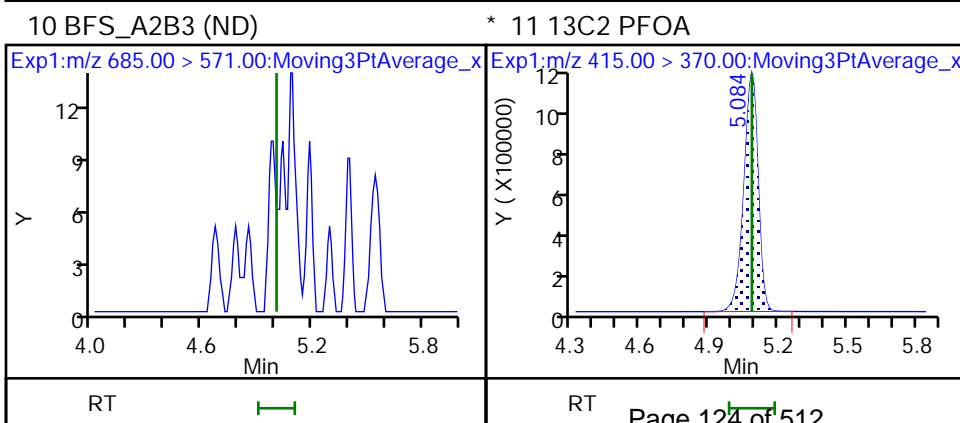
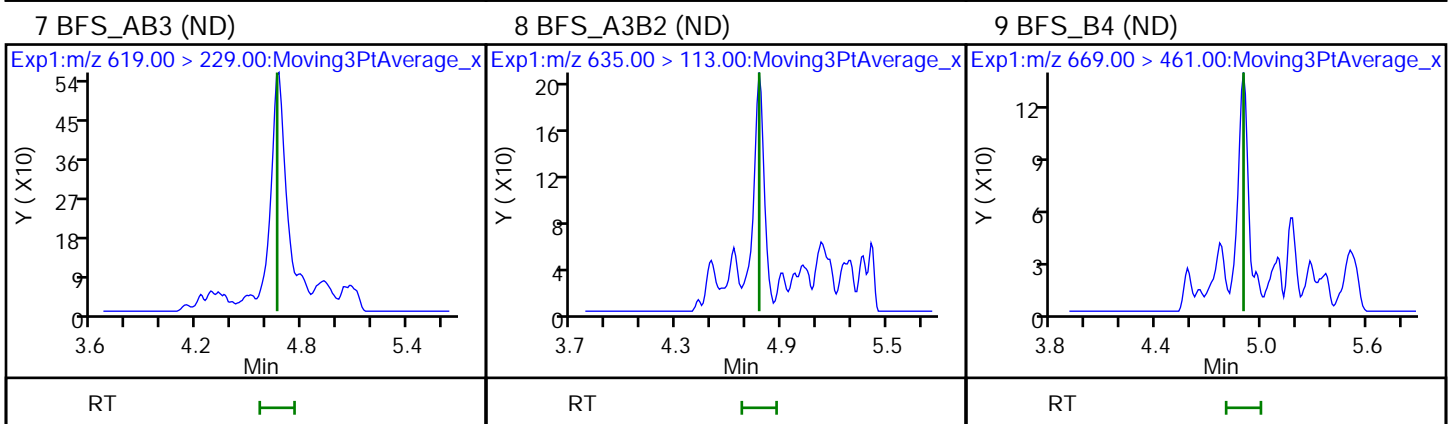
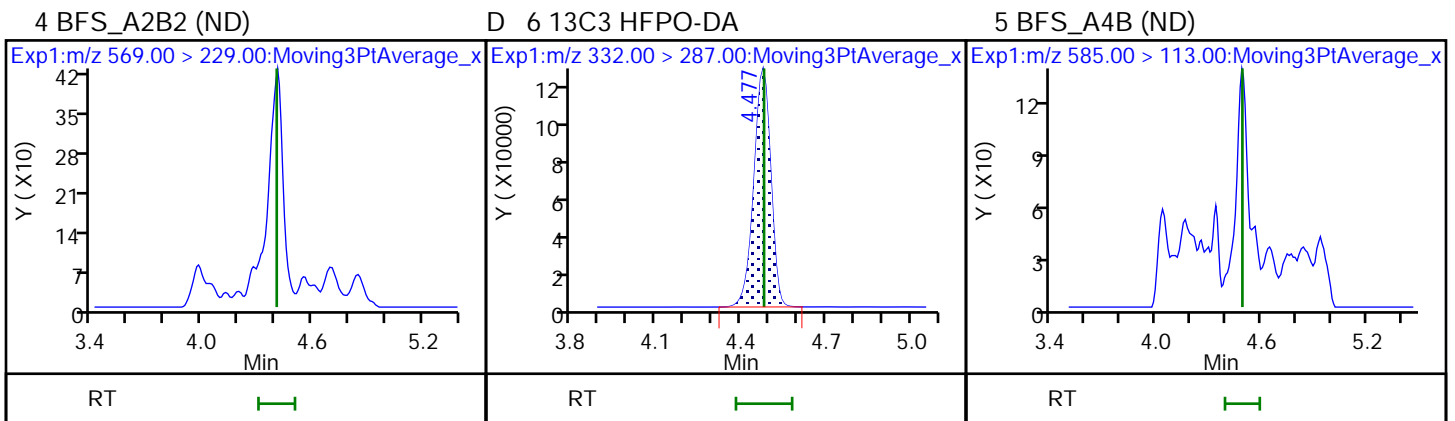
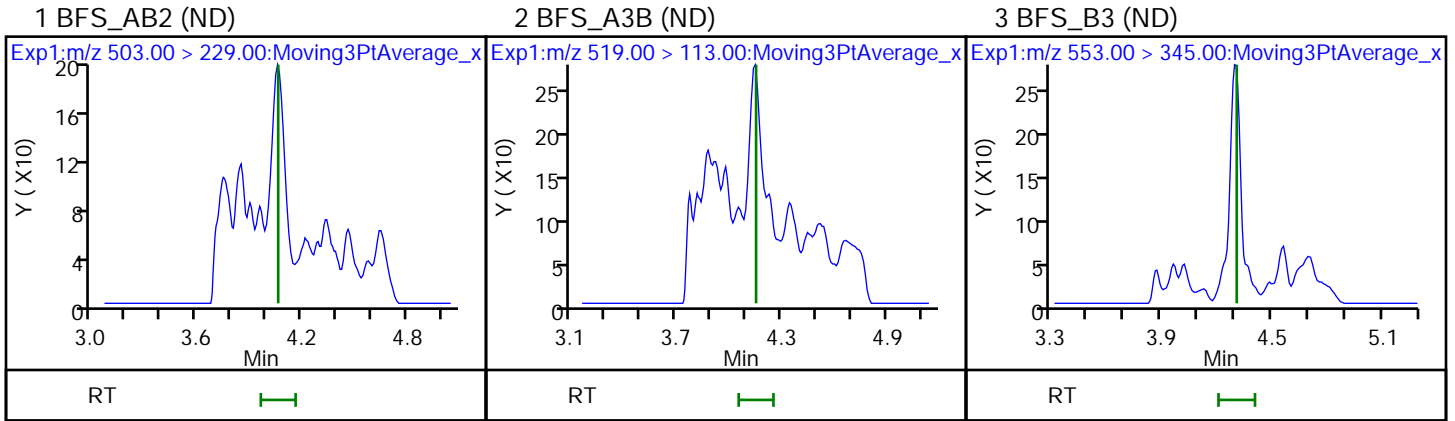
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-42.d
Injection Date: 01-Jun-2022 20:27:57 Instrument ID: 30733
Lims ID: 410-83867-A-8-A Lab Sample ID: 410-83867-8
Client ID: DUP2_05112022
Operator ID: US19_USR_INS20260 ALS Bottle#: 35 Worklist Smp#: 29
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_05112022 Lab Sample ID: 410-83867-9

Matrix: Water Lab File ID: 22JUN01BFS-43.d

Analysis Method: BFS Date Collected: 05/11/2022 12:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 284.3(mL) Date Analyzed: 06/01/2022 20:40

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.2	0.35
STL02887	BFS_A2B3	ND	cn	0.97	0.35
STL02880	BFS_A3B	ND	cn	0.53	0.18
STL02885	BFS_A3B2	ND	*+ cn	0.70	0.18
STL02883	BFS_A4B	ND	cn	0.35	0.18
STL02879	BFS_AB2	ND	cn	0.53	0.070
STL02884	BFS_AB3	ND	cn	1.3	0.35
STL02881	BFS_B3	ND	cn	0.62	0.26
STL02886	BFS_B4	ND	cn	0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-43.d
 Lims ID: 410-83867-A-9-A
 Client ID: EB_05112022
 Sample Type: Client
 Inject. Date: 01-Jun-2022 20:40:35 ALS Bottle#: 36 Worklist Smp#: 30
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-9-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-030
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehleh Date: 02-Jun-2022 06:48:15
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA									
332.00 > 287.00	4.479	4.481	-0.002	0.881	657504	4.17	83.4	2734	
* 11 13C2 PFOA									
415.00 > 370.00	5.084	5.085	-0.001		4872644	5.00		3362	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-43.d

Injection Date: 01-Jun-2022 20:40:35

Instrument ID: 30733

Lims ID: 410-83867-A-9-A

Lab Sample ID: 410-83867-9

Client ID: EB_05112022

Operator ID: US19_USR_INS20260

ALS Bottle#: 36

Worklist Smp#: 30

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

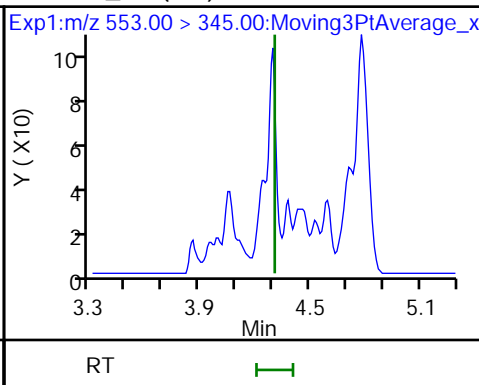
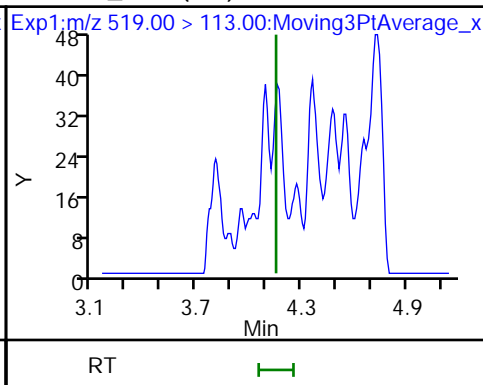
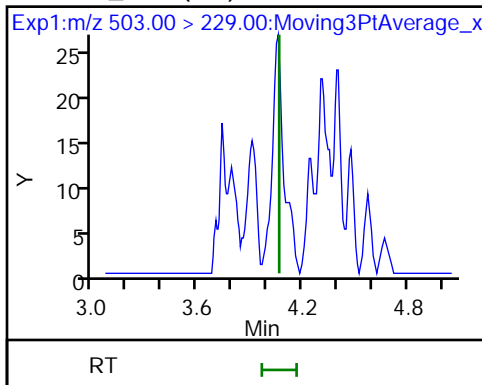
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

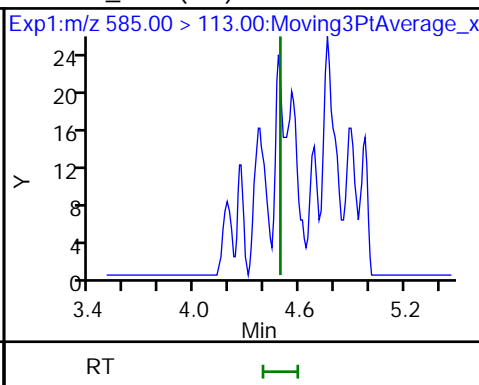
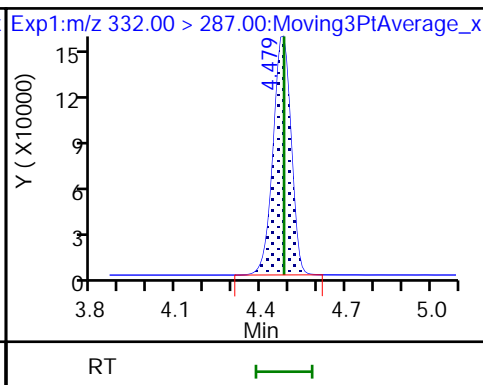
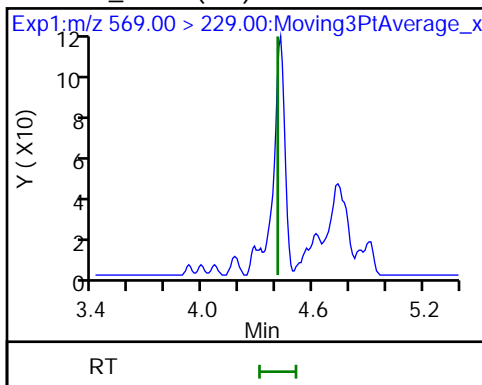
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

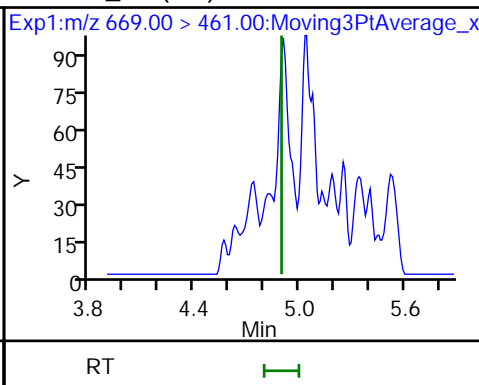
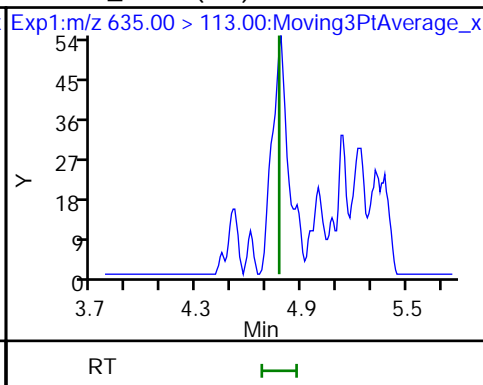
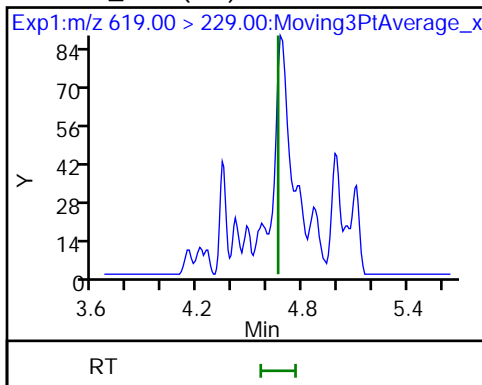
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

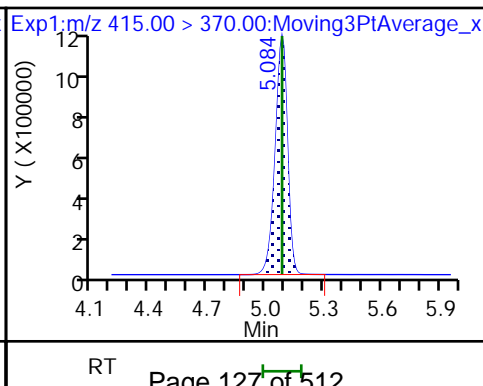
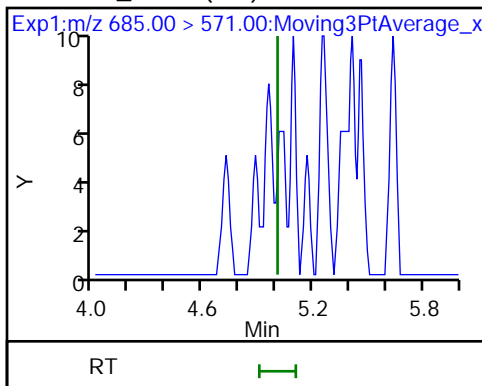
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: MW-111S

Lab Sample ID: 410-83867-10

Matrix: Water

Lab File ID: 22JUN01BFS-50.d

Analysis Method: BFS

Date Collected: 05/12/2022 10:35

Extraction Method: 3535

Date Extracted: 05/27/2022 13:24

Sample wt/vol: 308.5(mL)

Date Analyzed: 06/01/2022 22:08

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	120	^2 cn	1.1	0.32
STL02887	BFS_A2B3	22	cn	0.89	0.32
STL02880	BFS_A3B	23	cn	0.49	0.16
STL02885	BFS_A3B2	20	*+ cn	0.65	0.16
STL02883	BFS_A4B	9.6	cn	0.32	0.16
STL02879	BFS_AB2	23	cn	0.49	0.065
STL02884	BFS_AB3	180	^2 cn	1.2	0.32
STL02881	BFS_B3	84	^2 cn	0.57	0.24
STL02886	BFS_B4	50	cn	0.89	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	115	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-50.d
 Lims ID: 410-83867-A-10-A
 Client ID: MW-111S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 22:08:50 ALS Bottle#: 42 Worklist Smp#: 37
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-10-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-037
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:49:17
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.065	4.066	-0.001	0.909	3278126	7.23	24080	
2 BFS_A3B	519.00 > 113.00	4.142	4.154	-0.012	0.926	3370455	7.08	1462	
3 BFS_B3	553.00 > 345.00	4.290	4.307	-0.017	0.960	7657308	25.8	9876	
4 BFS_A2B2	569.00 > 229.00	4.398	4.407	-0.009	0.984	9228686	35.8	36516	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.471	4.481	-0.010	0.881	649133	5.74	115	2537
5 BFS_A4B	585.00 > 113.00	4.490	4.490	0.0	1.004	1918093	2.95	2798	
7 BFS_AB3	619.00 > 229.00	4.660	4.660	0.0	1.042	13285578	55.5	6862	
8 BFS_A3B2	635.00 > 113.00	4.761	4.772	-0.011	1.065	2635874	6.17	3606	
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.095	2060286	15.5	2787	
10 BFS_A2B3	685.00 > 571.00	4.997	5.006	-0.009	1.118	89275	6.75	1126	
* 11 13C2 PFOA	415.00 > 370.00	5.076	5.085	-0.009		3496499	5.00	3068	

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-50.d

Injection Date: 01-Jun-2022 22:08:50

Instrument ID: 30733

Lims ID: 410-83867-A-10-A

Lab Sample ID: 410-83867-10

Client ID: MW-111S

Operator ID: US19_USR_INS20260

ALS Bottle#: 42

Worklist Smp#: 37

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

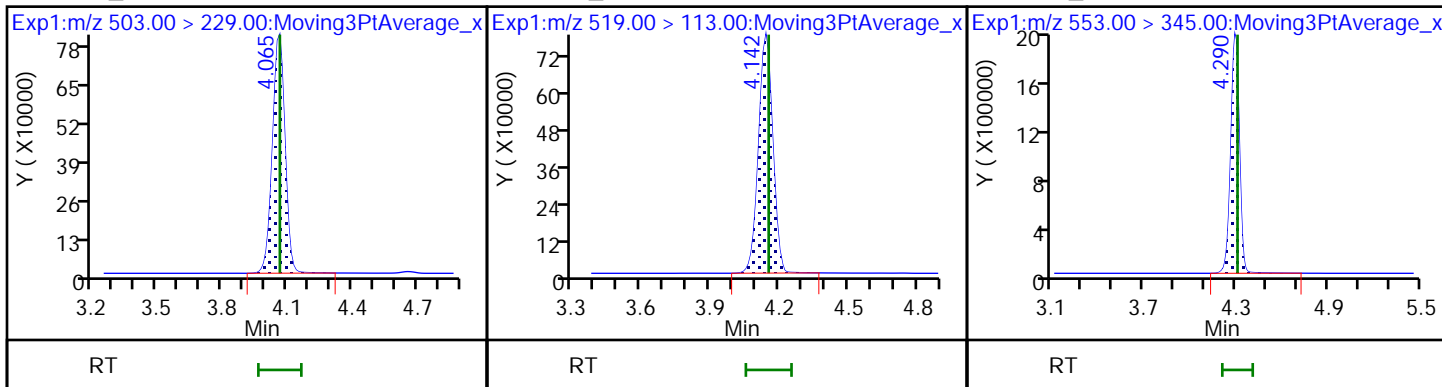
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

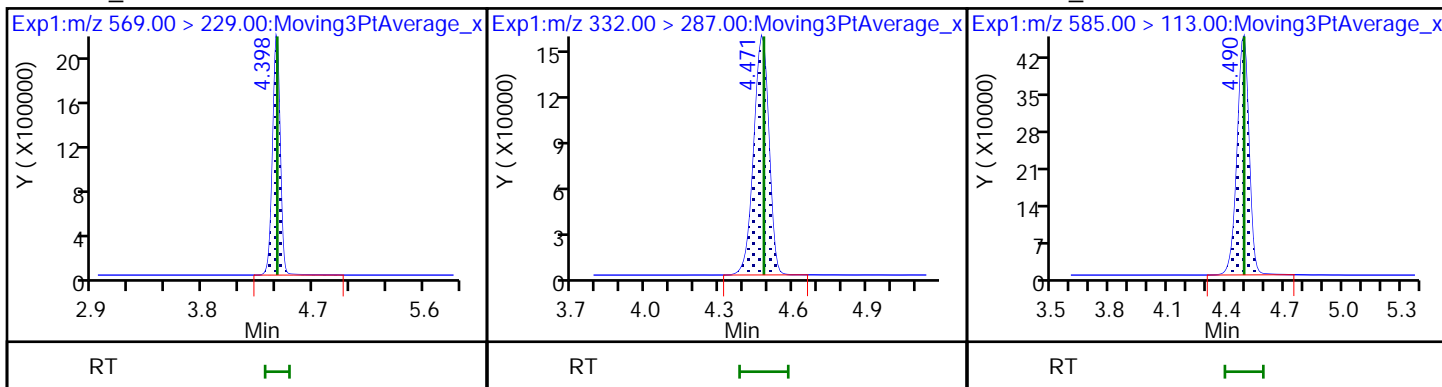
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

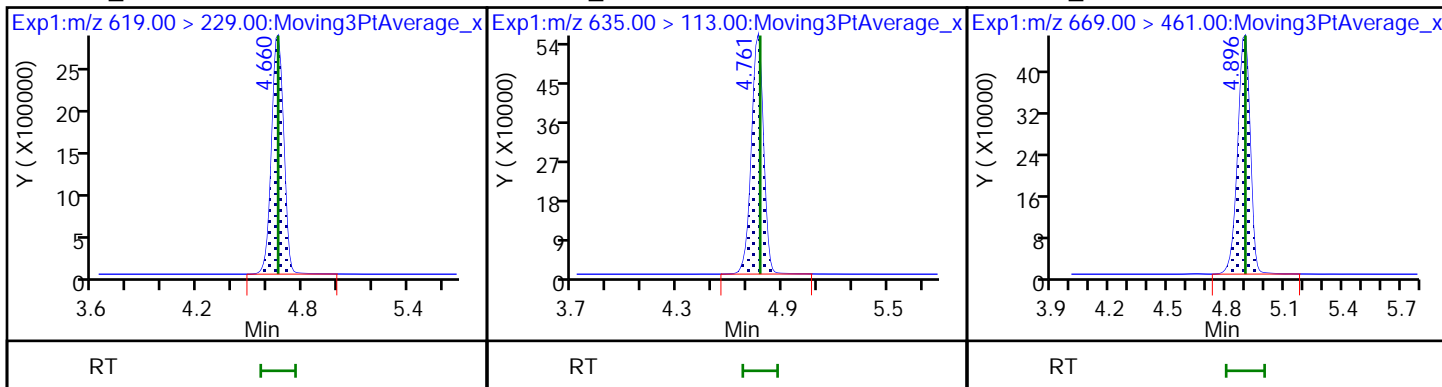
5 BFS_A4B



7 BFS_AB3

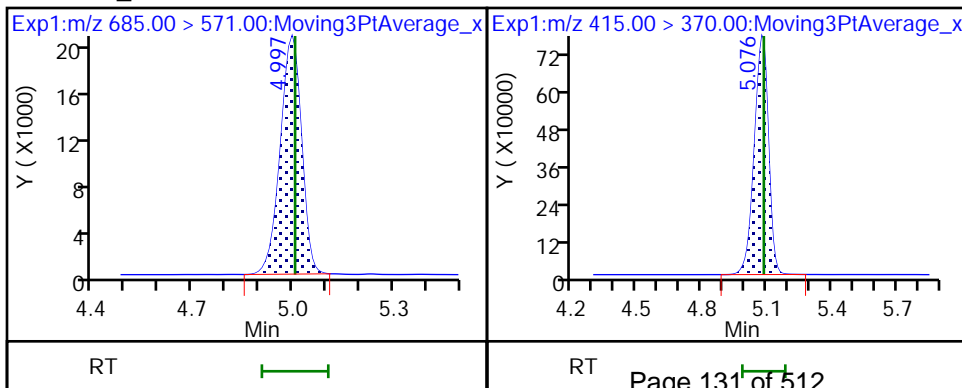
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: MW-111D

Lab Sample ID: 410-83867-11

Matrix: Water

Lab File ID: 22JUN01BFS-51.d

Analysis Method: BFS

Date Collected: 05/12/2022 11:10

Extraction Method: 3535

Date Extracted: 05/27/2022 13:24

Sample wt/vol: 305.9(mL)

Date Analyzed: 06/01/2022 22:21

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	31	^2 cn	1.1	0.33
STL02887	BFS_A2B3	32	cn	0.90	0.33
STL02880	BFS_A3B	2.7	cn	0.49	0.16
STL02885	BFS_A3B2	16	*+ cn	0.65	0.16
STL02883	BFS_A4B	3.0	cn	0.33	0.16
STL02879	BFS_AB2	7.0	cn	0.49	0.065
STL02884	BFS_AB3	150	^2 cn	1.2	0.33
STL02881	BFS_B3	25	^2 cn	0.57	0.25
STL02886	BFS_B4	76	cn	0.90	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-51.d
 Lims ID: 410-83867-A-11-A
 Client ID: MW-111D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 22:21:28 ALS Bottle#: 43 Worklist Smp#: 38
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-11-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-038
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:49:23

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.061	4.066	-0.005	0.907	867647	2.14	11018	
2 BFS_A3B	519.00 > 113.00	4.148	4.154	-0.006	0.926	347326	0.8174	491	
3 BFS_B3	553.00 > 345.00	4.297	4.307	-0.010	0.959	2042433	7.65	5475	
4 BFS_A2B2	569.00 > 229.00	4.405	4.407	-0.002	0.984	2192065	9.40	3787	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.478	4.481	-0.003	0.881	579651	4.93	98.5	2670
5 BFS_A4B	585.00 > 113.00	4.488	4.490	-0.002	1.002	525068	0.9055	1861	
7 BFS_AB3	619.00 > 229.00	4.657	4.660	-0.003	1.040	9589761	44.7	12469	
8 BFS_A3B2	635.00 > 113.00	4.760	4.772	-0.012	1.063	1814294	4.75	4494	
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.093	2774297	23.3	5241	
10 BFS_A2B3	685.00 > 571.00	5.005	5.006	-0.001	1.118	114513	9.69	1659	
* 11 13C2 PFOA	415.00 > 370.00	5.083	5.085	-0.002		3634711	5.00	3093	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-51.d

Injection Date: 01-Jun-2022 22:21:28

Instrument ID: 30733

Lims ID: 410-83867-A-11-A

Lab Sample ID: 410-83867-11

Client ID: MW-111D

Operator ID: US19_USR_INS20260

ALS Bottle#: 43

Worklist Smp#: 38

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

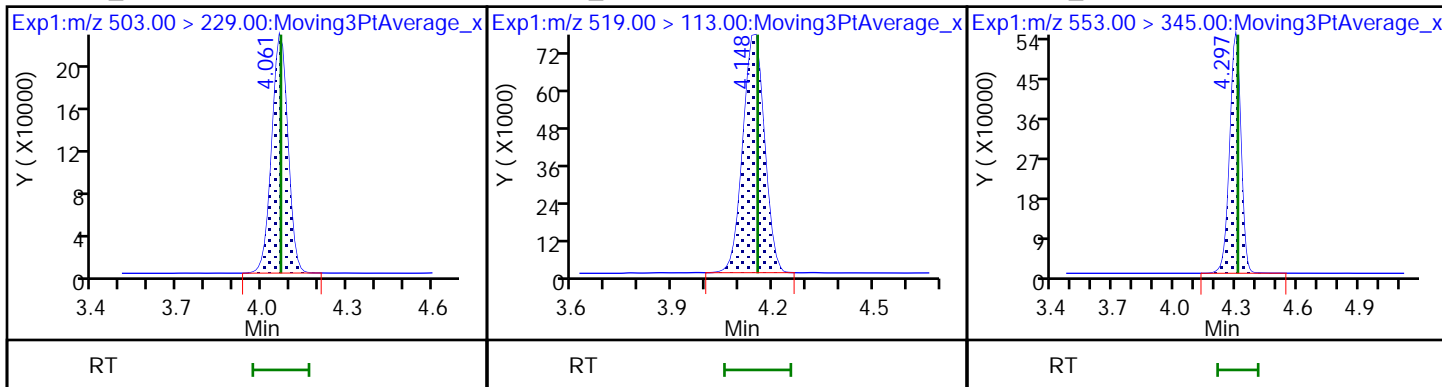
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

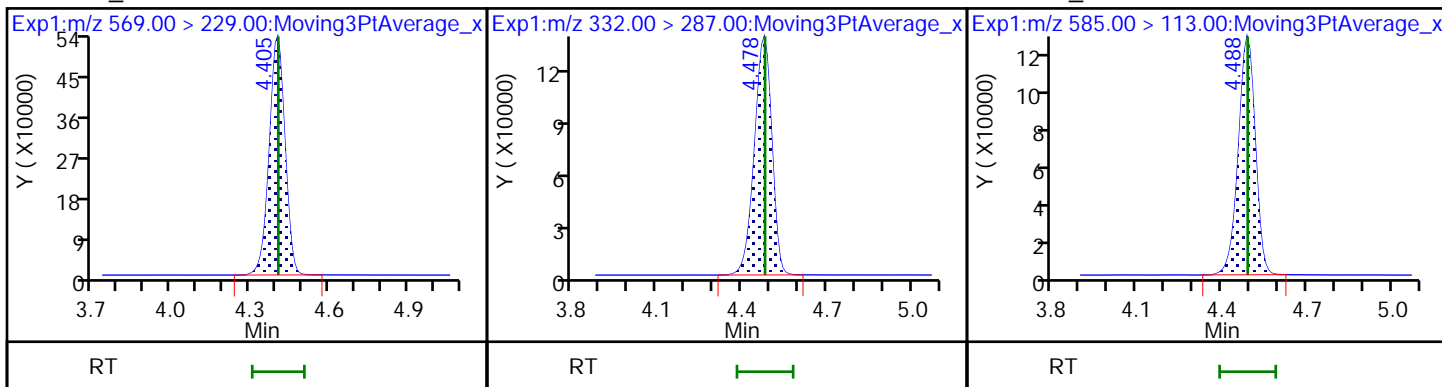
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

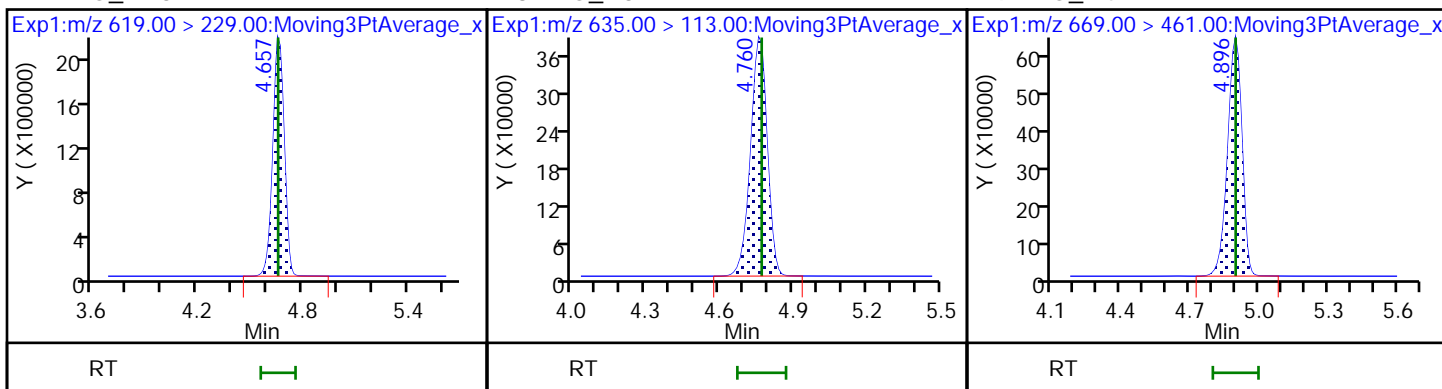
5 BFS_A4B



7 BFS_AB3

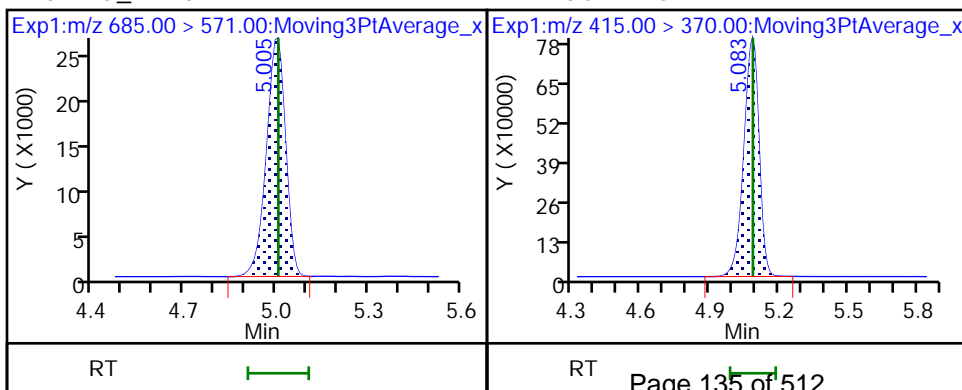
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: EB_05122022

Lab Sample ID: 410-83867-12

Matrix: Water

Lab File ID: 22JUN01BFS-52.d

Analysis Method: BFS

Date Collected: 05/12/2022 09:00

Extraction Method: 3535

Date Extracted: 05/27/2022 13:24

Sample wt/vol: 259.1(mL)

Date Analyzed: 06/01/2022 22:34

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	cn	1.4	0.39
STL02887	BFS_A2B3	ND	cn	1.1	0.39
STL02880	BFS_A3B	ND	cn	0.58	0.19
STL02885	BFS_A3B2	ND	*+ cn	0.77	0.19
STL02883	BFS_A4B	ND	cn	0.39	0.19
STL02879	BFS_AB2	ND	cn	0.58	0.077
STL02884	BFS_AB3	ND	cn	1.4	0.39
STL02881	BFS_B3	ND	cn	0.68	0.29
STL02886	BFS_B4	ND	cn	1.1	0.39

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-52.d
 Lims ID: 410-83867-A-12-A
 Client ID: EB_05122022
 Sample Type: Client
 Inject. Date: 01-Jun-2022 22:34:04 ALS Bottle#: 44 Worklist Smp#: 39
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-12-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-039
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 02-Jun-2022 06:49:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.477	4.481	-0.004	0.881	680184	5.23	105	2533
* 11 13C2 PFOA	415.00 > 370.00	5.084	5.085	-0.001		4020388	5.00		3248

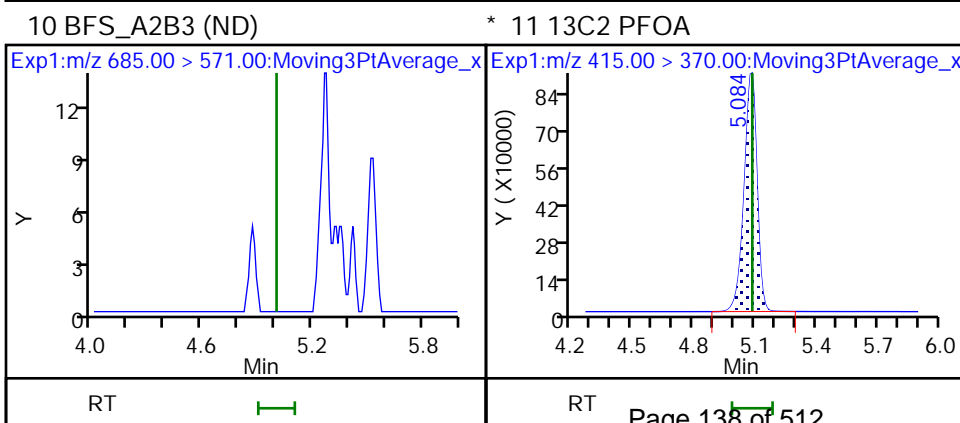
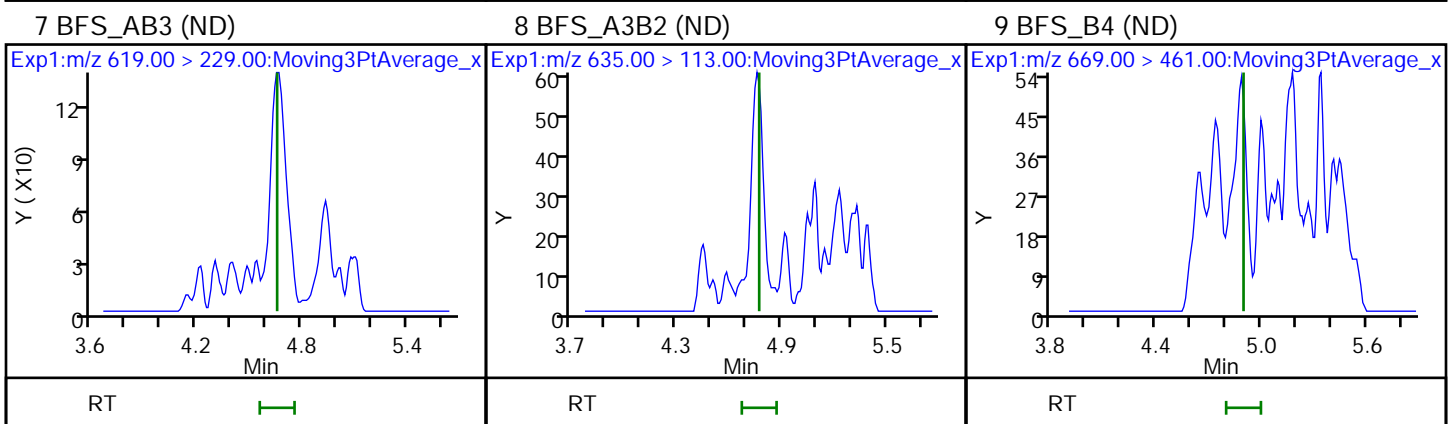
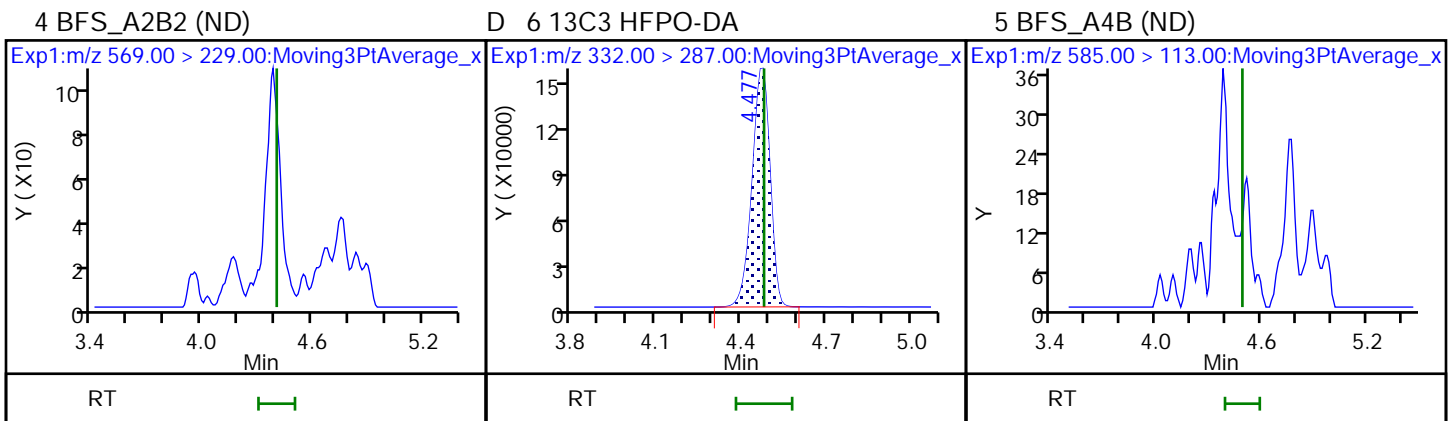
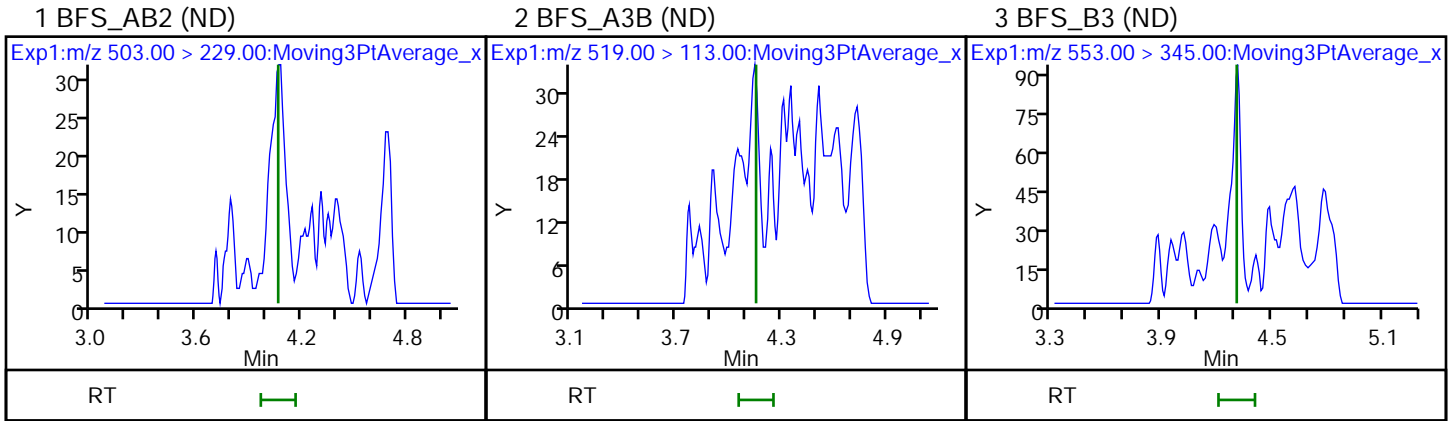
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-52.d
Injection Date: 01-Jun-2022 22:34:04 Instrument ID: 30733
Lims ID: 410-83867-A-12-A Lab Sample ID: 410-83867-12
Client ID: EB_05122022
Operator ID: US19_USR_INS20260 ALS Bottle#: 44 Worklist Smp#: 39
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47 Calibration End Date: 06/01/2022 13:42 Calibration ID: 39195

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260772/1	22JUN01BFS-01.d
Level 2	IC 410-260772/2	22JUN01BFS-02.d
Level 3	IC 410-260772/3	22JUN01BFS-03.d
Level 4	IC 410-260772/4	22JUN01BFS-04.d
Level 5	ICISAV 410-260772/5	22JUN01BFS-05.d
Level 6	IC 410-260772/6	22JUN01BFS-06.d
Level 7	IC 410-260772/7	22JUN01BFS-07.d
Level 8	IC 410-260772/8	22JUN01BFS-08.d
Level 9	IC 410-260772/9	22JUN01BFS-09.d
Level 10	IC 410-260772/10	22JUN01BFS-10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
BFS_AB2	2.9614 3.2524	3.2741 3.2977	3.1857 3.4599	3.2031 3.6251	3.3438 3.4833	LID1 F		3.491 4			7.6			0.9990		0.9900	
BFS_A3B	3.1101 3.4047	3.2980 3.4825	3.2380 3.5786	3.4417 3.7645	3.5807 3.6804	LID1 F		3.665 1			8.1			0.9990		0.9900	
BFS_B3	2.3490 2.3497	2.2682 2.2473	2.1719 2.2135	2.2568 2.2583	2.4863 2.0311	Q2ID F		2.310 6	-0.000837		4.0			0.9980		0.9900	
BFS_A2B2	1.9247 2.0512	1.9563 1.9678	1.9221 1.8927	2.0371 1.8158	2.1384 1.3668	Q2ID F		2.019 3	-0.000903		4.0			0.9980		0.9900	
BFS_A4B	4.8448 5.3318	5.1278 5.2993	5.0067 5.1640	5.2775 5.3961	5.6672 4.7497	LID1 F		5.002 1			6.7			0.9960		0.9900	
BFS_AB3	1.7991 1.8024	1.9236 1.7372	1.8753 1.7139	1.8771 1.7274	2.0729 1.4312	Q2ID F		1.877 4	-0.000612		5.1			0.9970		0.9900	
BFS_A3B2	3.1682 3.4080	3.4259 3.3861	3.4182 3.4063	3.5004 3.4223	3.8239 3.1890	LID1 F		3.292 3			6.7			0.9990		0.9900	
BFS_B4	1.0790 1.0919	1.0980 1.0310	1.0599 1.0737	1.0759 1.0664	1.1469 0.9920	LID1 F		1.025 2			6.2			0.9980		0.9900	
BFS_A2B3	++++ 0.0920	++++ 0.1037	0.1052 0.0952	0.1073 0.1059	0.0921 0.1021	LID1 F		0.101 9			6.4			0.9990		0.9900	
13C3 HFPO-DA	0.1716 0.1594	0.1672 0.1615	0.1683 0.1633	0.1674 0.1480	0.1652 0.1465	Ave		0.161 8			5.2						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1

Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733

GC Column: Gemini C18 ID: 3 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47

Calibration End Date: 06/01/2022 13:42

Calibration ID: 39195

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260772/1	22JUN01BFS-01.d
Level 2	IC 410-260772/2	22JUN01BFS-02.d
Level 3	IC 410-260772/3	22JUN01BFS-03.d
Level 4	IC 410-260772/4	22JUN01BFS-04.d
Level 5	ICISAV 410-260772/5	22JUN01BFS-05.d
Level 6	IC 410-260772/6	22JUN01BFS-06.d
Level 7	IC 410-260772/7	22JUN01BFS-07.d
Level 8	IC 410-260772/8	22JUN01BFS-08.d
Level 9	IC 410-260772/9	22JUN01BFS-09.d
Level 10	IC 410-260772/10	22JUN01BFS-10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		LID1 F	20636	66148	171038	427530	846634	0.0445	0.134	0.356	0.891	1.78
			2034419	4544165	9020531	16231123	41799671	4.45	8.91	17.8	35.6	89.1
BFS_A3B		LID1 F	24222	74470	194295	513420	1013274	0.0498	0.149	0.398	0.995	1.99
			2380227	5363405	10427670	18838535	49360673	4.98	9.95	19.9	39.8	99.5
BFS_B3		Q2ID F	58253	163082	414974	1071990	2240373	0.158	0.475	1.27	3.17	6.34
			5230603	11020475	20537472	35984718	86742054	15.8	31.7	63.4	127	317
BFS_A2B2		Q2ID F	104538	308059	804323	2119206	4219900	0.347	1.04	2.78	6.94	13.9
			10000371	21133838	38460675	63365922	127841132	34.7	69.4	139	278	694
BFS_A4B		LID1 F	20852	63988	166026	435077	886268	0.0275	0.0825	0.220	0.550	1.10
			2059941	4510215	8315704	14922849	35203991	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID F	104717	324614	841017	2092742	4383968	0.372	1.12	2.98	7.44	14.9
			9417379	19995143	37324836	64603397	143461865	37.2	74.4	149	298	744
BFS_A3B2		LID1 F	32467	101785	269883	687074	1423801	0.0655	0.196	0.524	1.31	2.62
			3134979	6861654	13059911	22534422	56276374	6.55	13.1	26.2	52.4	131
BFS_B4		LID1 F	14596	43063	110459	278773	563680	0.0864	0.259	0.692	1.73	3.46
			1325888	2757789	5433932	9268536	23106837	8.64	17.3	34.6	69.2	173

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47 Calibration End Date: 06/01/2022 13:42 Calibration ID: 39195

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_A2B3		LID1 F	+++++	+++++	831	2106	3428	+++++	+++++	0.0524	0.131	0.262
			8465	21014	36499	69744	180193	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	782424	756152	753532	749330	710727	5.00	5.00	5.00	5.00	5.00
			702341	773603	731839	628418	673694	5.00	5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
 LID1F = Linear 1/Conc IsoDil FZ
 Q2IDF = Quadratic 1/conc^2 IsoDil FZ

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 260772

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2022 11:47 Calibration End Date: 06/01/2022 13:42 Calibration ID: 39195

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260772/1	22JUN01BFS-01.d
Level 2	IC 410-260772/2	22JUN01BFS-02.d
Level 3	IC 410-260772/3	22JUN01BFS-03.d
Level 4	IC 410-260772/4	22JUN01BFS-04.d
Level 5	ICISAV 410-260772/5	22JUN01BFS-05.d
Level 6	IC 410-260772/6	22JUN01BFS-06.d
Level 7	IC 410-260772/7	22JUN01BFS-07.d
Level 8	IC 410-260772/8	22JUN01BFS-08.d
Level 9	IC 410-260772/9	22JUN01BFS-09.d
Level 10	IC 410-260772/10	22JUN01BFS-10.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
BFS_AB2	-15.2	-6.2	-8.8	-8.3	-4.2	-6.8	50	30	30	30	30	30
	-5.5	-0.9	3.8	-0.2			30	30	30	30		
BFS_A3B	-15.1	-10.0	-11.7	-6.1	-2.3	-7.1	50	30	30	30	30	30
	-5.0	-2.4	2.7	0.4			30	30	30	30		
BFS_B3	1.7	-1.8	-6.0	-2.2	7.9	2.3	50	30	30	30	30	30
	-1.6	-2.0	2.6	-0.8			30	30	30	30		
BFS_A2B2	-4.7	-3.1	-4.7	1.2	6.6	3.2	50	30	30	30	30	30
	0.6	-0.1	3.1	-3.2			30	30	30	30		
BFS_A4B	-3.1	2.5	0.1	5.5	13.3	6.6	50	30	30	30	30	30
	5.9	3.2	7.9	-5.0			30	30	30	30		
BFS_AB3	-4.2	2.5	0.0	0.2	11.0	-2.8	50	30	30	30	30	30
	-5.3	-4.3	2.1	1.0			30	30	30	30		
BFS_A3B2	-3.8	4.1	3.8	6.3	16.1	3.5	50	30	30	30	30	30
	2.8	3.5	4.0	-3.1			30	30	30	30		
BFS_B4	5.2	7.1	3.4	4.9	11.9	6.5	50	30	30	30	30	30
	0.6	4.7	4.0	-3.2			30	30	30	30		
BFS_A2B3	+++++	+++++	3.3	5.3	-9.7	-9.7			50	30	30	30
	1.7	-6.6	3.9	0.2			30	30	30	30		
13C3 HFPO-DA		3.3	4.0	3.4	2.1	-1.5		30	30	30	30	30
	-0.2	0.9	-8.5	-9.5			30	30	30	30		

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Jun-2022 11:47:07 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:47 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:59:28

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.061	4.061	0.0	0.909	20636	0.0378	84.8	505	M
2 BFS_A3B									M
519.00 > 113.00	4.137	4.138	-0.001	0.926	24222	0.0422	84.9	117	M
3 BFS_B3									M
553.00 > 345.00	4.303	4.296	0.007	0.963	58253	0.1611	102	143	M
4 BFS_A2B2									
569.00 > 229.00	4.403	4.397	0.006	0.986	104538	0.3309	95.3	315	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.467	4.468	-0.001	0.880	782424	5.30	106	1993	
5 BFS_A4B									M
585.00 > 113.00	4.485	4.484	0.001	1.004	20852	0.0266	96.9	180	M
7 BFS_AB3									M
619.00 > 229.00	4.656	4.655	0.001	1.042	104717	0.3565	95.8	374	M
8 BFS_A3B2									M
635.00 > 113.00	4.758	4.758	0.0	1.065	32467	0.0630	96.2	243	M
9 BFS_B4									M
669.00 > 461.00	4.895	4.888	0.007	1.096	14596	0.0910	105	72.4	M
* 11 13C2 PFOA									
415.00 > 370.00	5.074	5.074	0.0		4560566	5.00		2771	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d

Injection Date: 01-Jun-2022 11:47:07

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

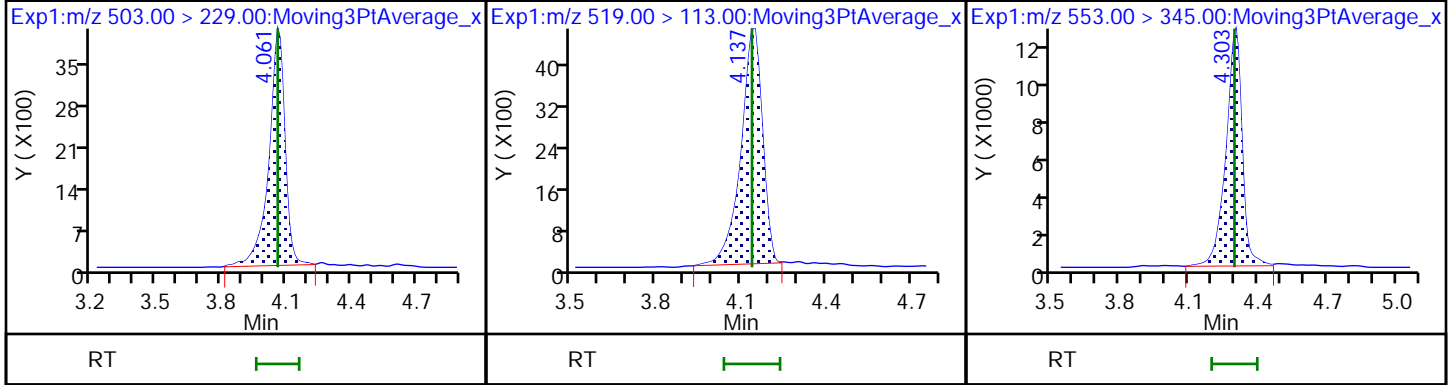
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

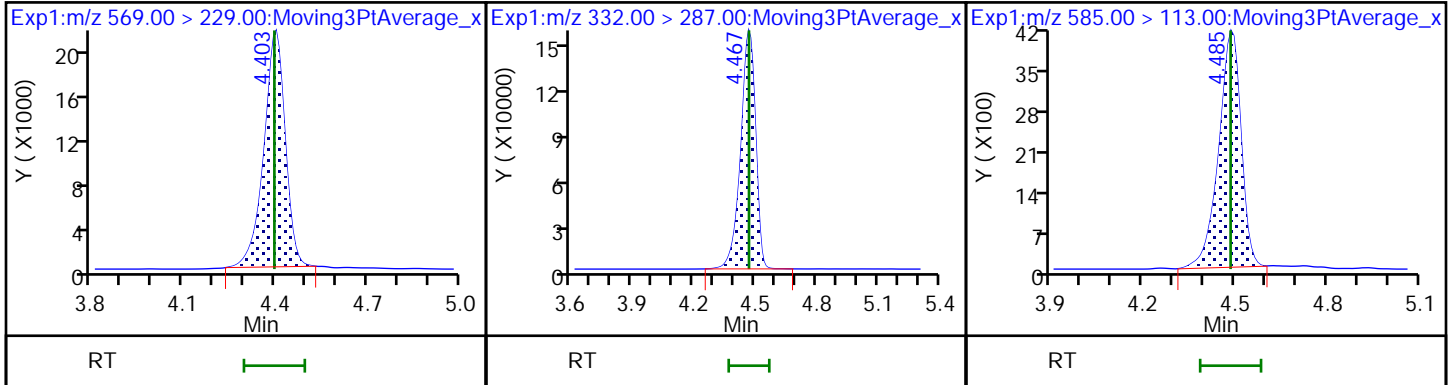
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

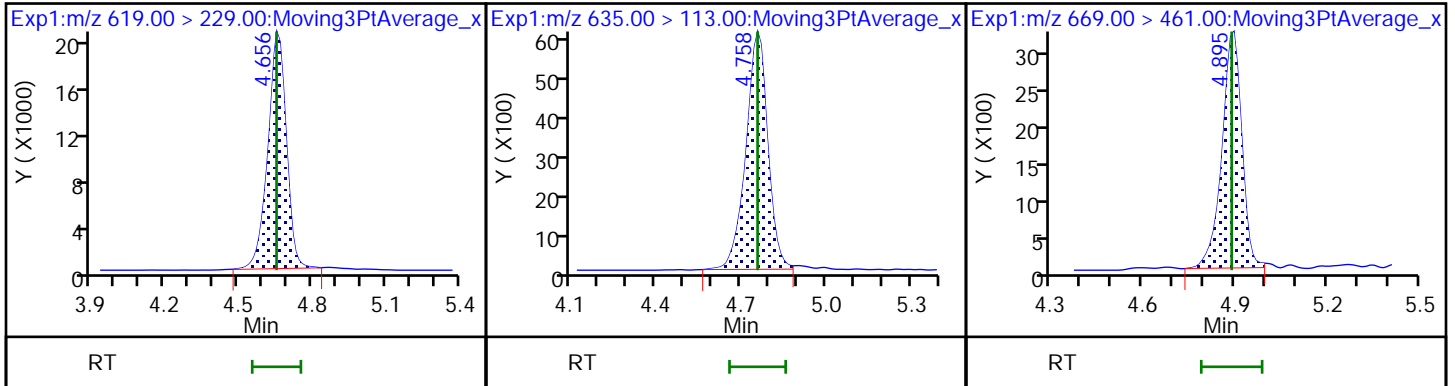
5 BFS_A4B (M)



7 BFS_AB3 (M)

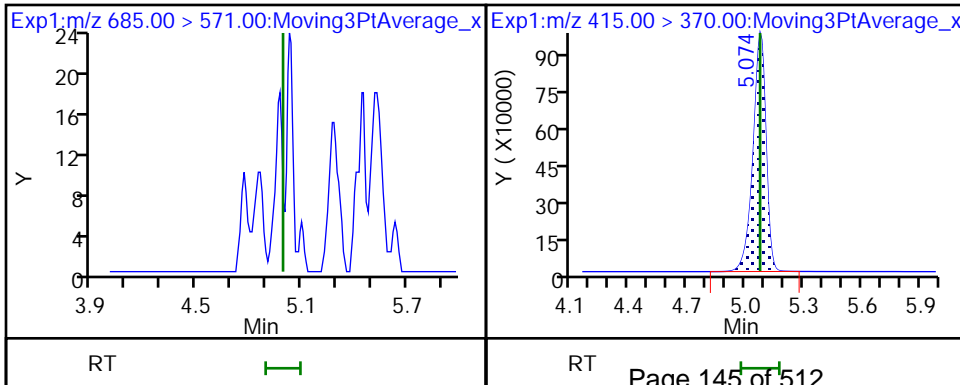
8 BFS_A3B2 (M)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

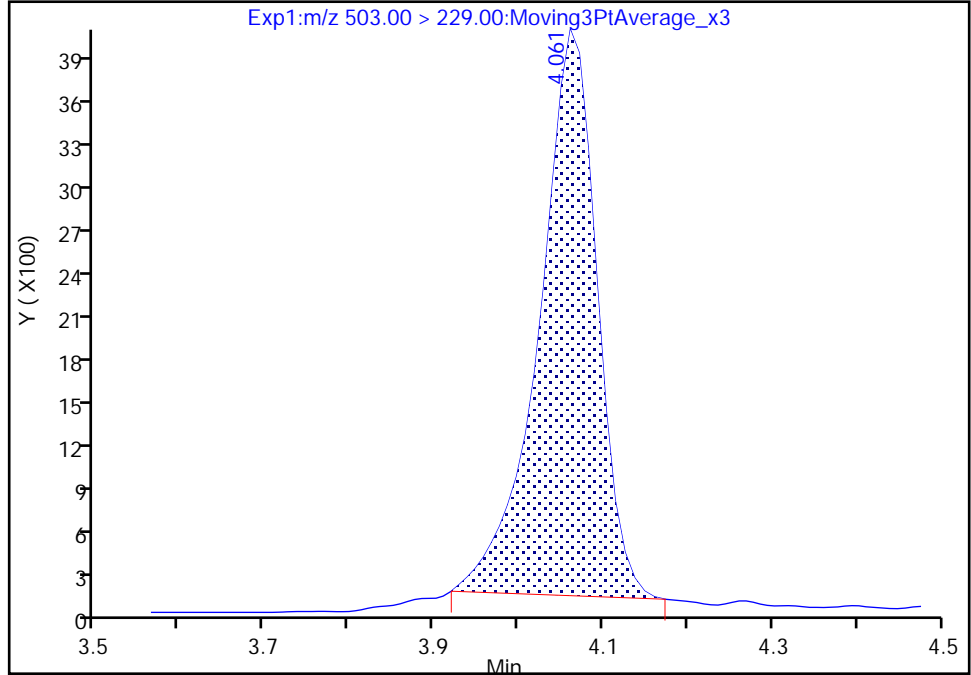
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

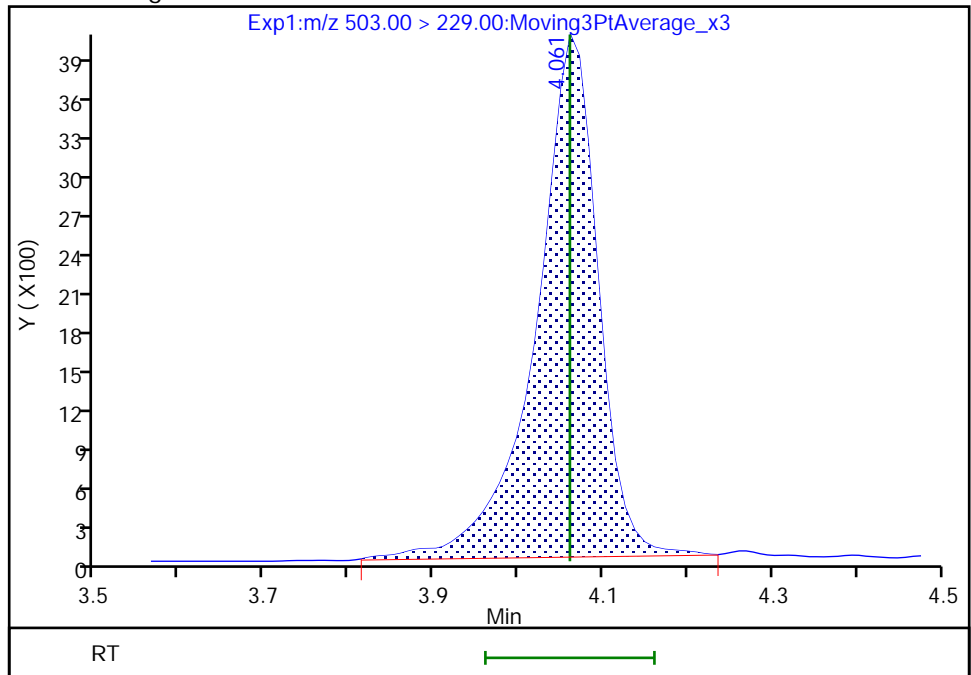
RT: 4.06
Area: 18804
Amount: 0.036530
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 20636
Amount: 0.037770
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:58:52
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

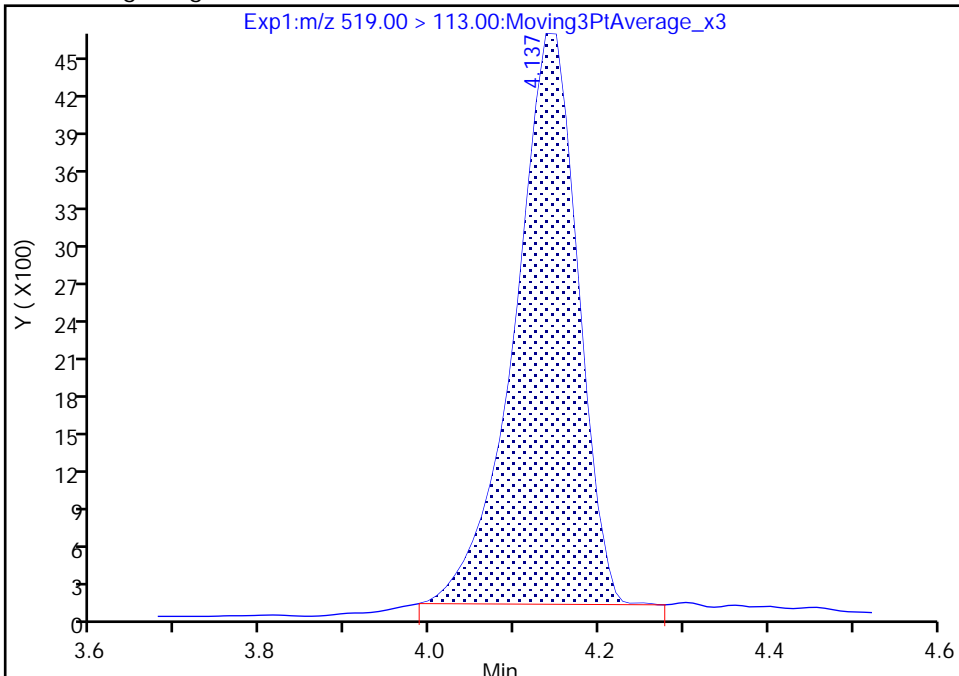
Data File:	\\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d		
Injection Date:	01-Jun-2022 11:47:07	Instrument ID:	30733
Lims ID:	IC CAL 1		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	2
Injection Vol:	15.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	1

2 BFS_A3B, CAS: STL02880

Signal: 1

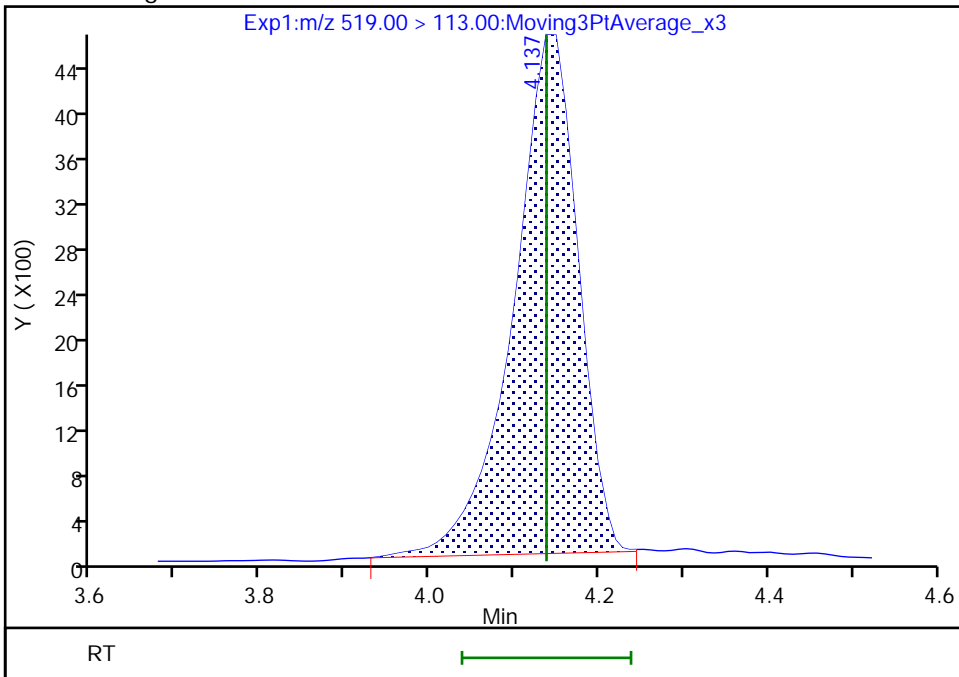
RT: 4.14
 Area: 23609
 Amount: 0.043590
 Amount Units: ng/ml

Processing Integration Results



RT: 4.14
 Area: 24222
 Amount: 0.042233
 Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:58:57
 Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

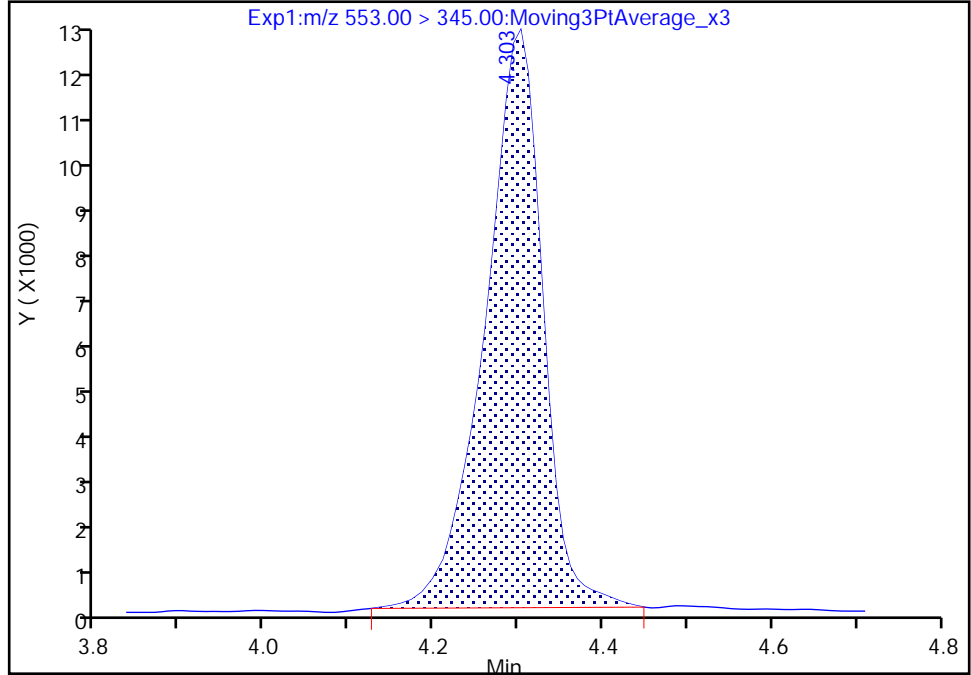
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

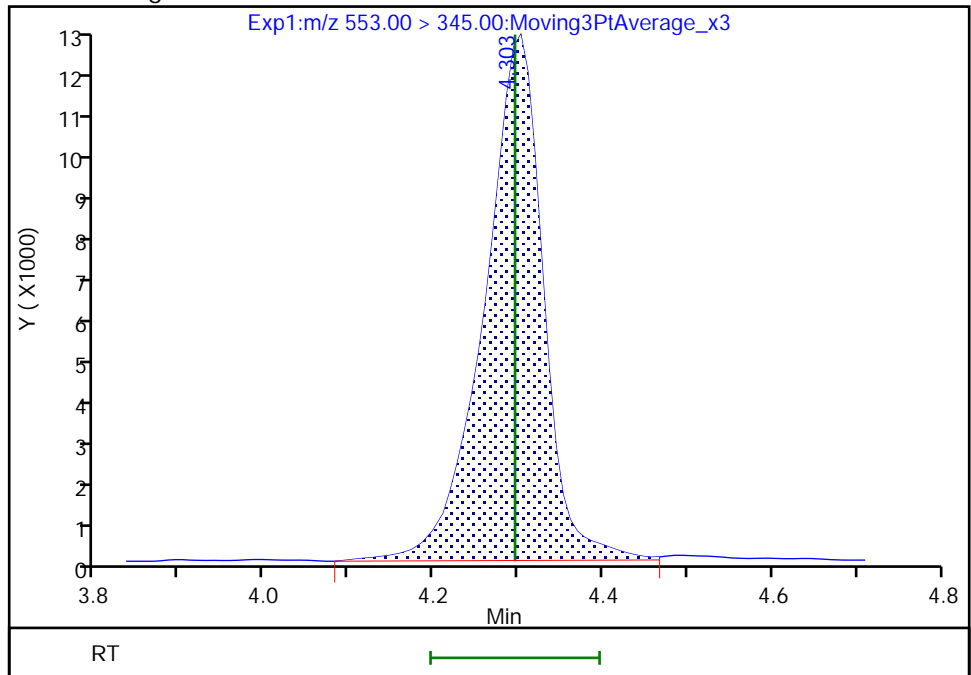
RT: 4.30
Area: 56557
Amount: 0.156337
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 58253
Amount: 0.161121
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:02
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

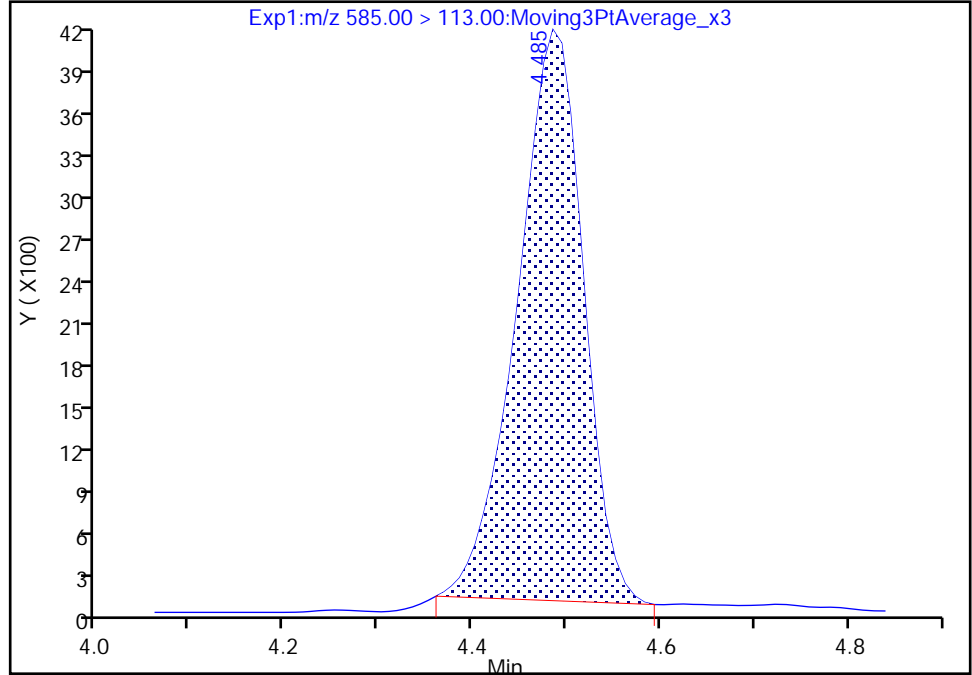
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

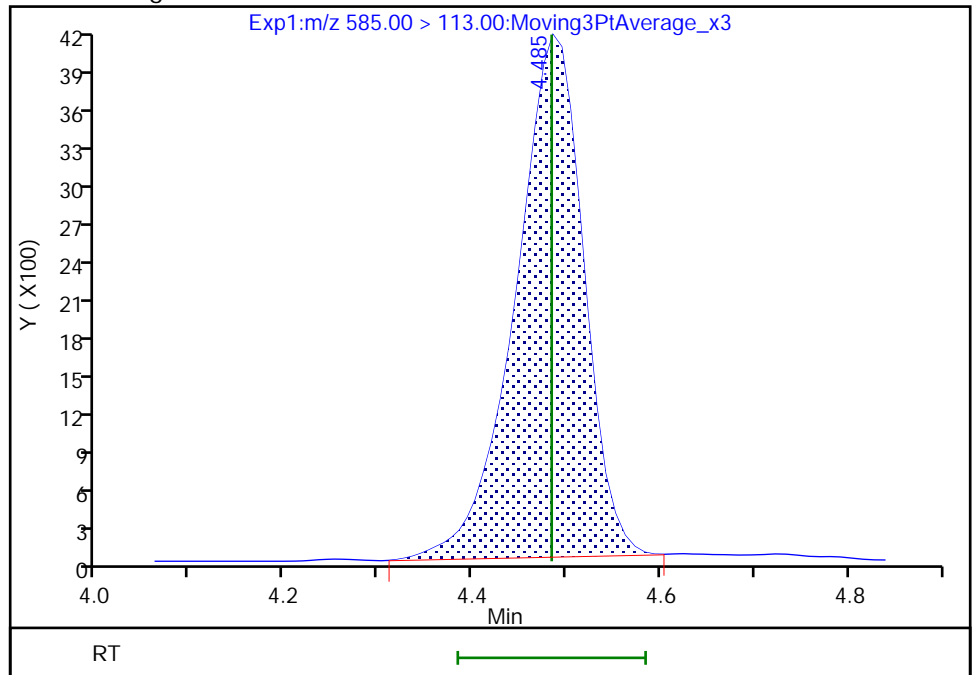
RT: 4.49
Area: 19960
Amount: 0.023728
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 20852
Amount: 0.026639
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:08
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

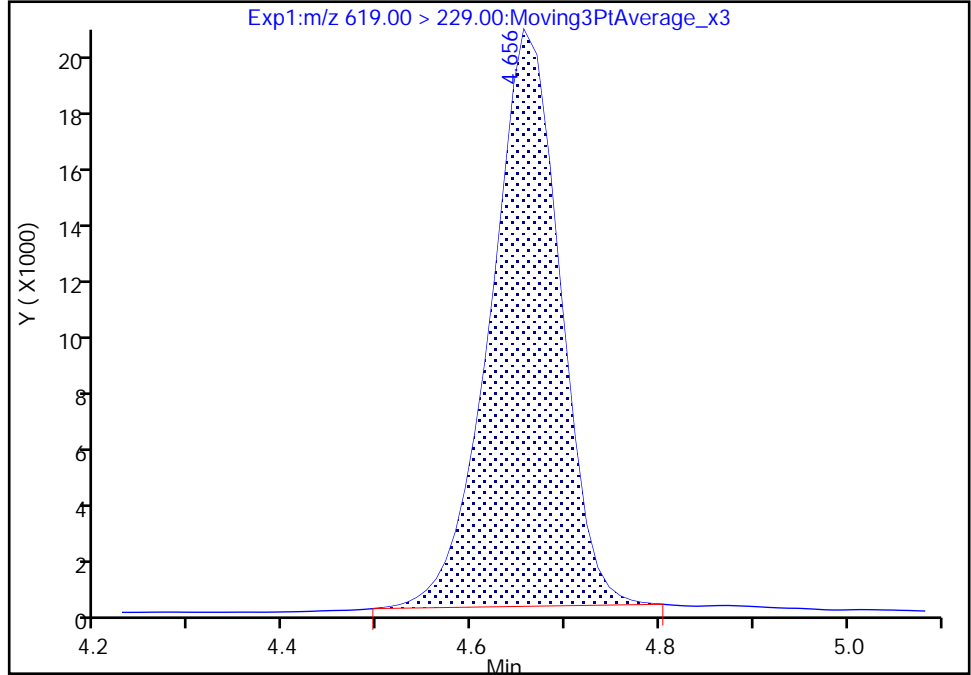
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

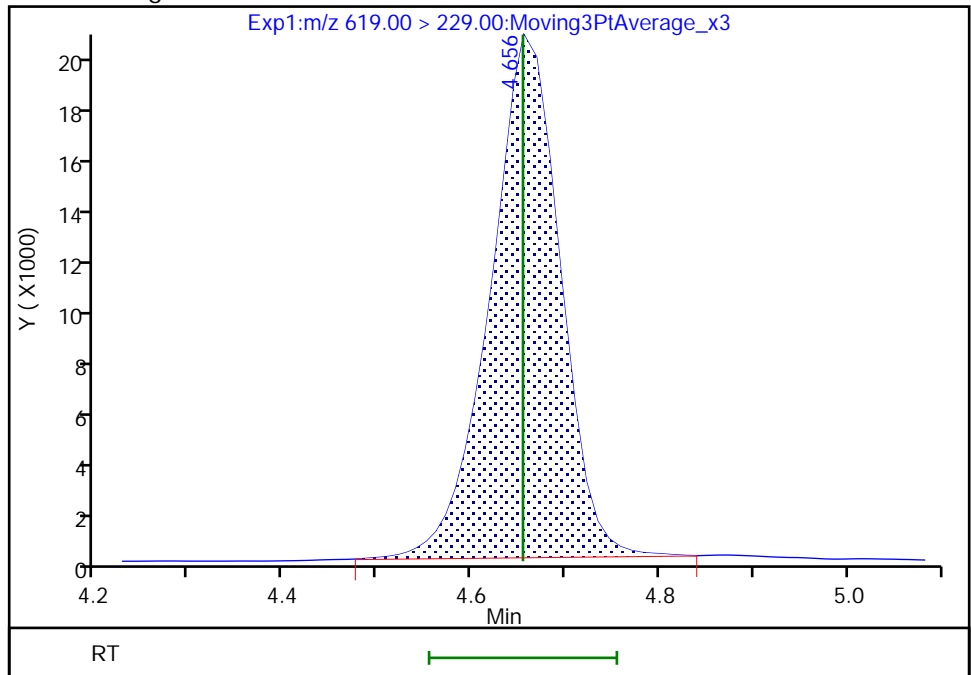
RT: 4.66
Area: 103151
Amount: 0.365064
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 104717
Amount: 0.356488
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:13
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

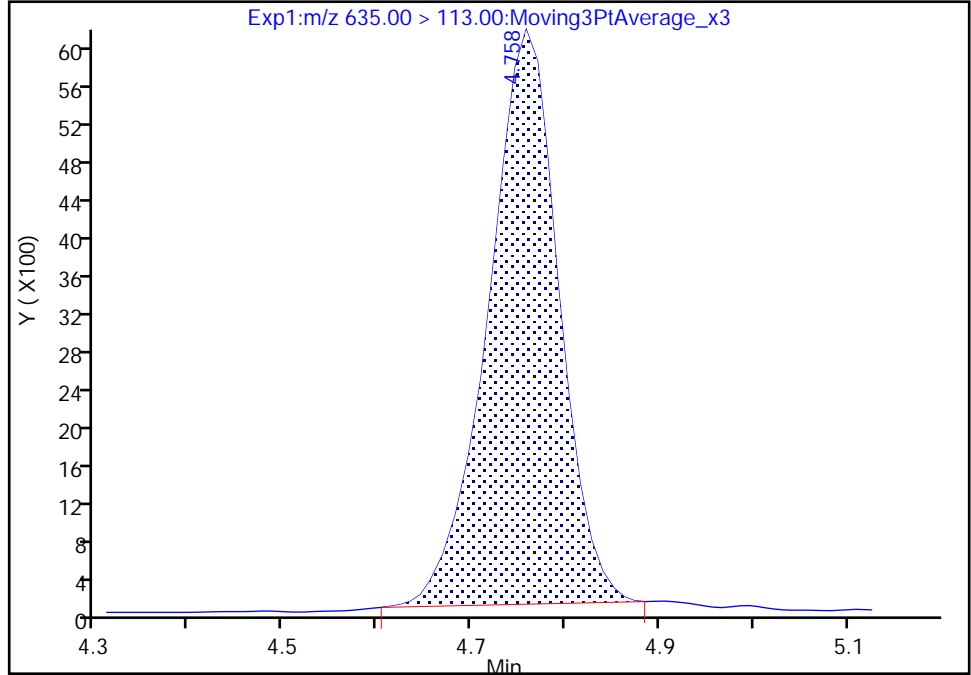
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

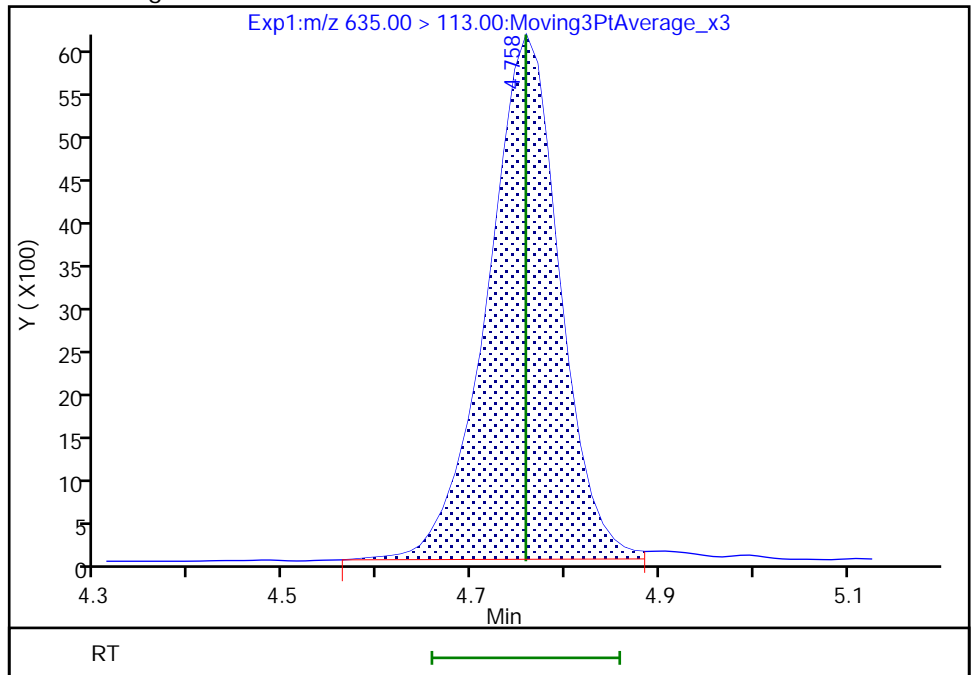
RT: 4.76
Area: 31413
Amount: 0.058264
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 32467
Amount: 0.063019
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:18
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

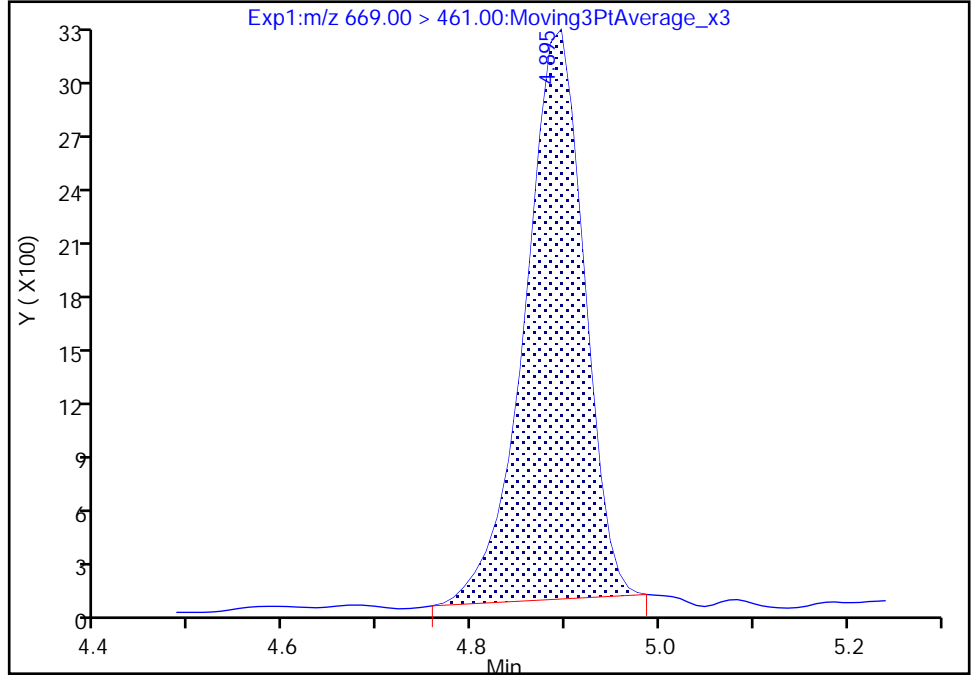
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-01.d
Injection Date: 01-Jun-2022 11:47:07 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

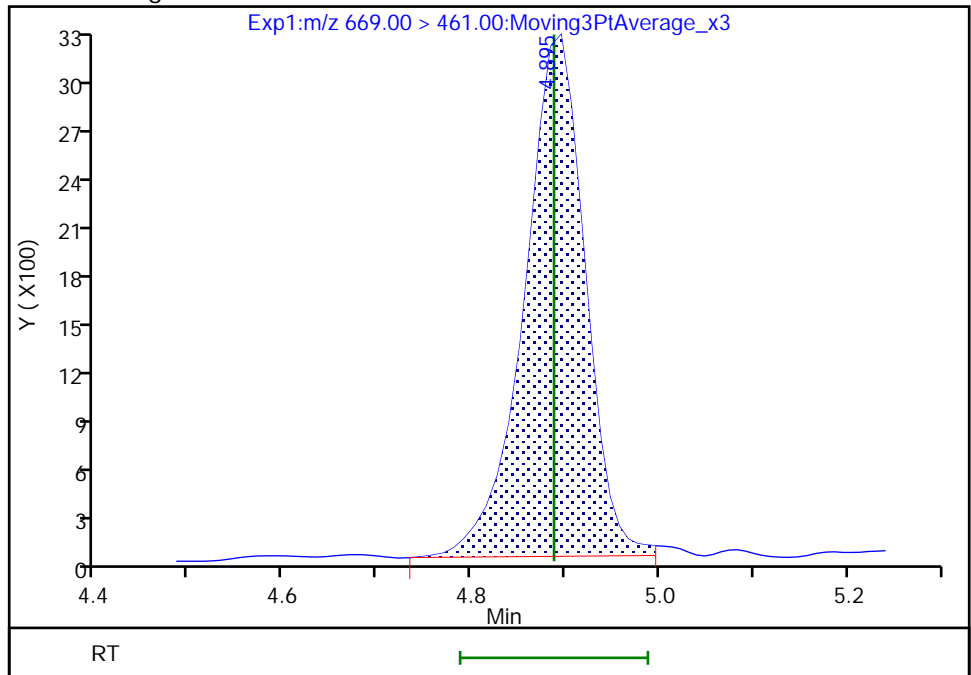
RT: 4.90
Area: 14017
Amount: 0.084246
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 14596
Amount: 0.090979
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:23
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Jun-2022 12:01:11 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:48 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:00:21

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.055	4.061	-0.006	0.908	66148	0.1253	93.8	1352	M
2 BFS_A3B									M
519.00 > 113.00	4.130	4.138	-0.008	0.925	74470	0.1344	90.0	158	M
3 BFS_B3									M
553.00 > 345.00	4.293	4.296	-0.003	0.962	163082	0.4668	98.2	251	M
4 BFS_A2B2									
569.00 > 229.00	4.393	4.397	-0.004	0.984	308059	1.01	96.9	445	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.465	4.468	-0.003	0.881	756152	5.17	103	1758	
5 BFS_A4B									M
585.00 > 113.00	4.483	4.484	-0.001	1.004	63988	0.0846	103	266	M
7 BFS_AB3									
619.00 > 229.00	4.652	4.655	-0.003	1.042	324614	1.14	102	561	
8 BFS_A3B2									
635.00 > 113.00	4.755	4.758	-0.003	1.065	101785	0.2044	104	348	
9 BFS_B4									M
669.00 > 461.00	4.881	4.888	-0.007	1.093	43063	0.2777	107	148	M
* 11 13C2 PFOA									
415.00 > 370.00	5.070	5.074	-0.004		4521342	5.00		2511	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d

Injection Date: 01-Jun-2022 12:01:11

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

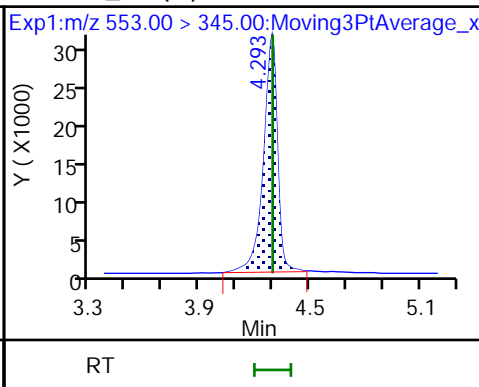
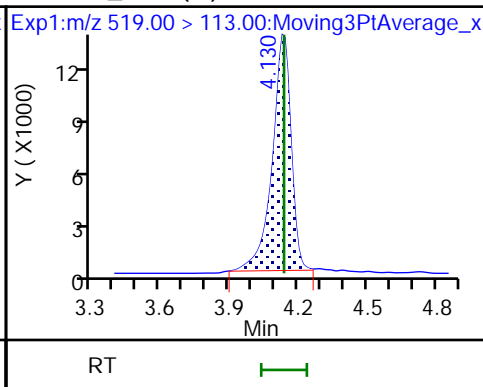
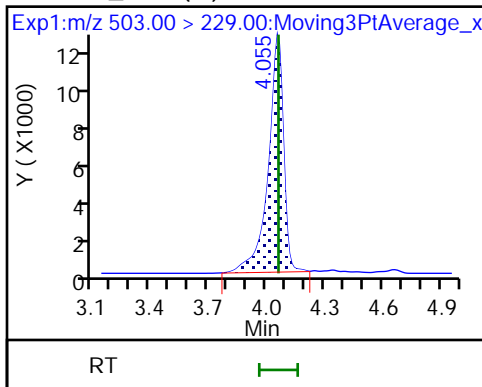
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

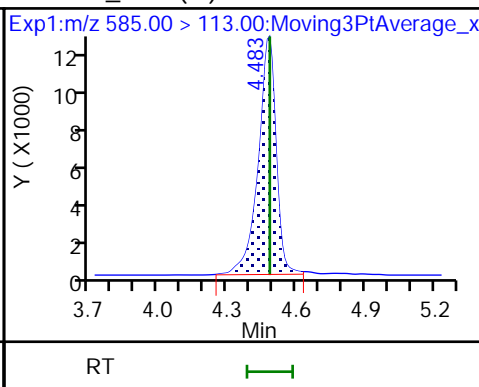
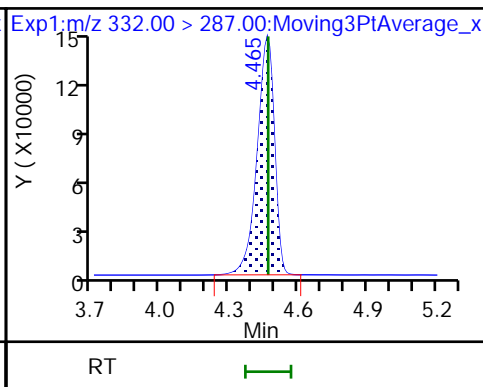
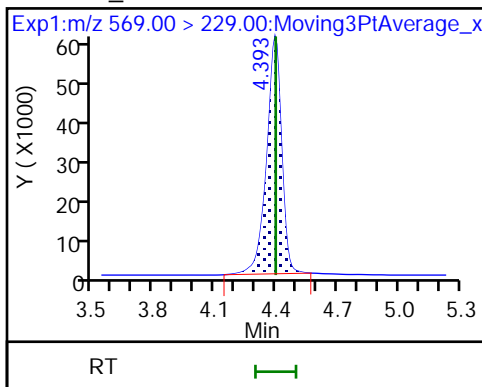
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

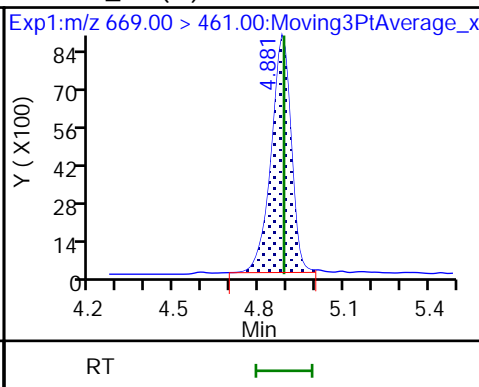
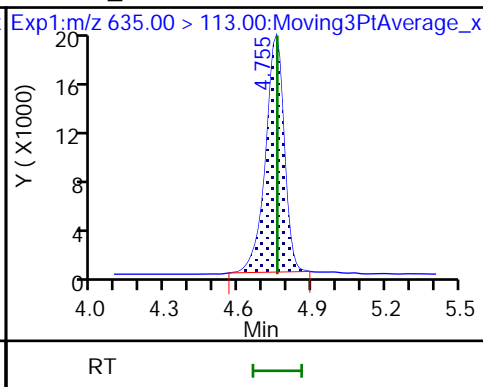
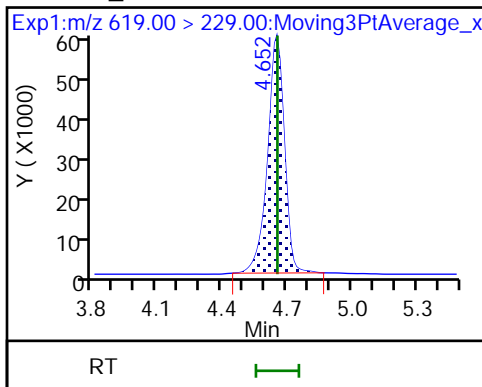
5 BFS_A4B (M)



7 BFS_AB3

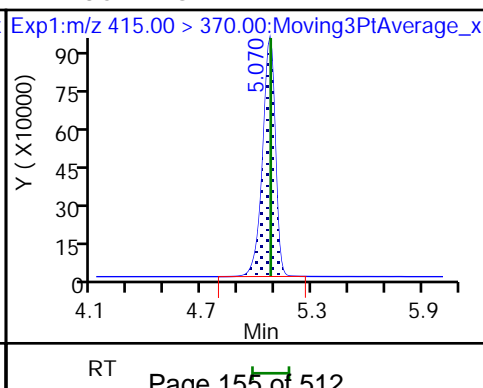
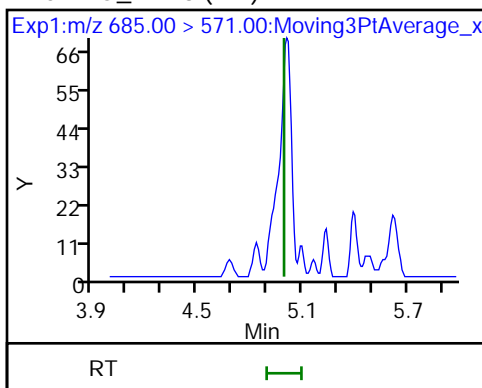
8 BFS_A3B2

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

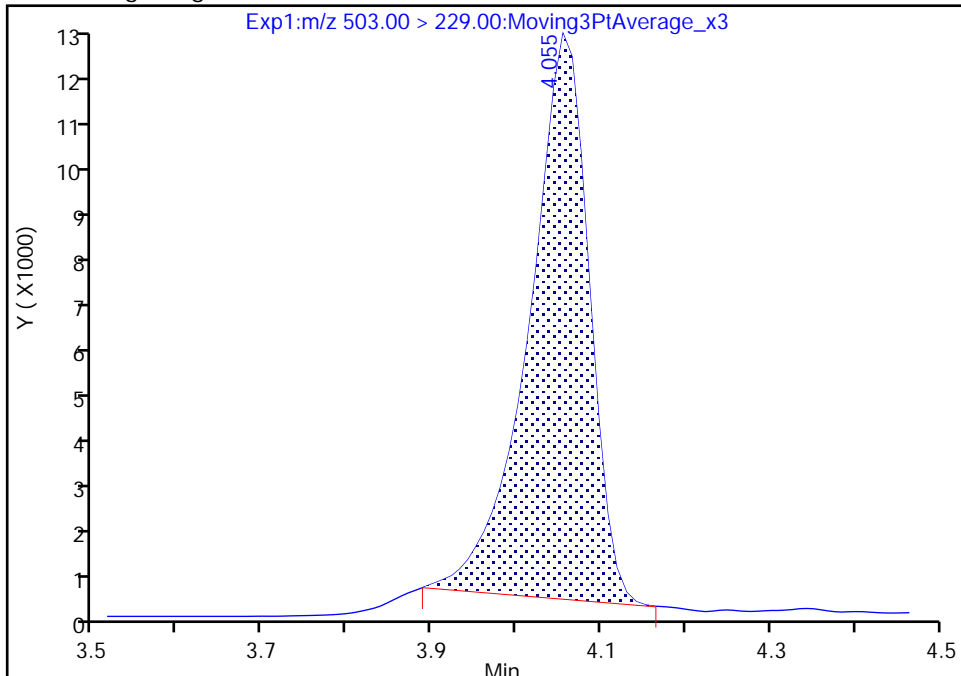
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

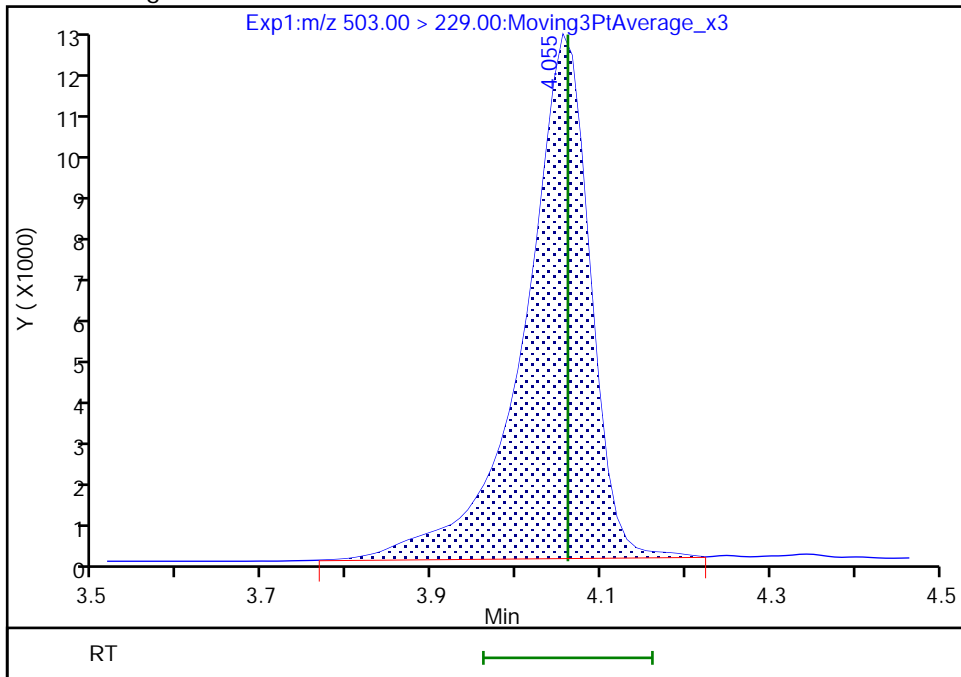
RT: 4.05
Area: 58695
Amount: 0.117961
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 66148
Amount: 0.125277
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:59:46
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

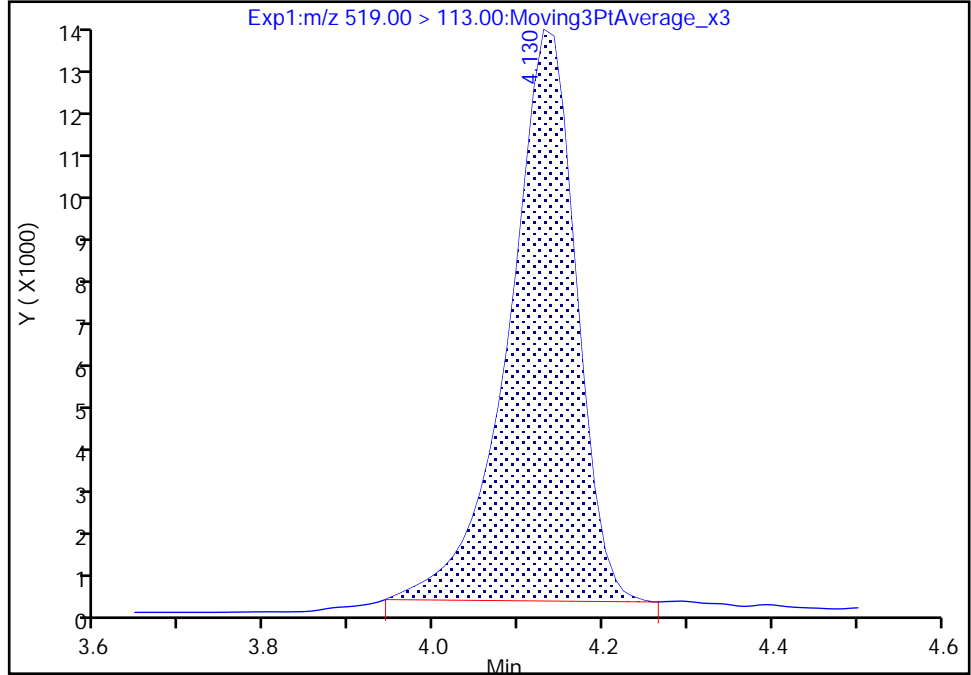
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

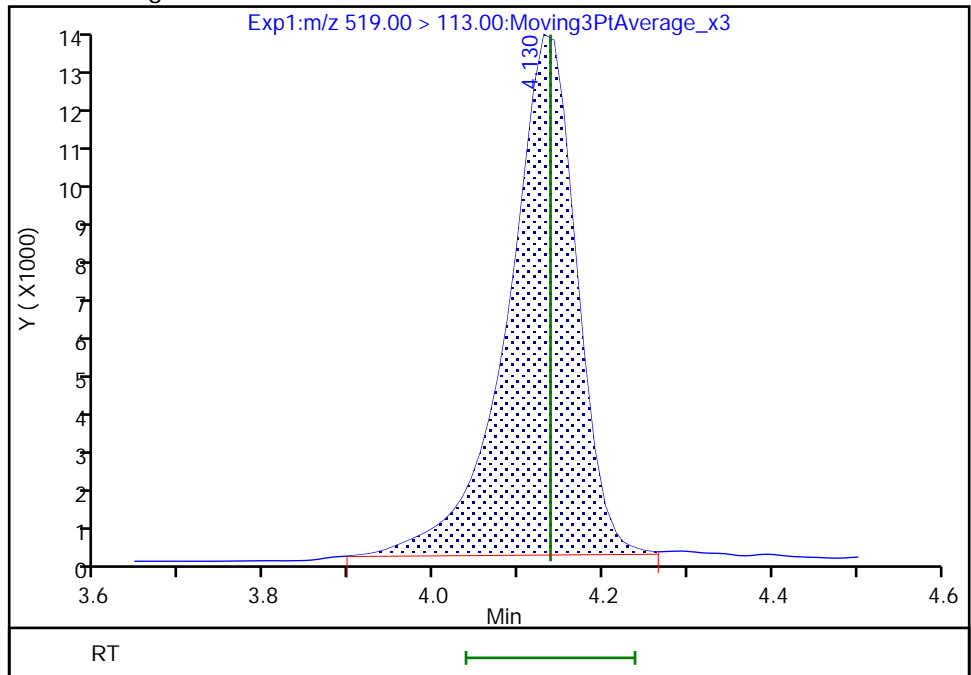
RT: 4.13
Area: 72099
Amount: 0.137734
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 74470
Amount: 0.134355
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

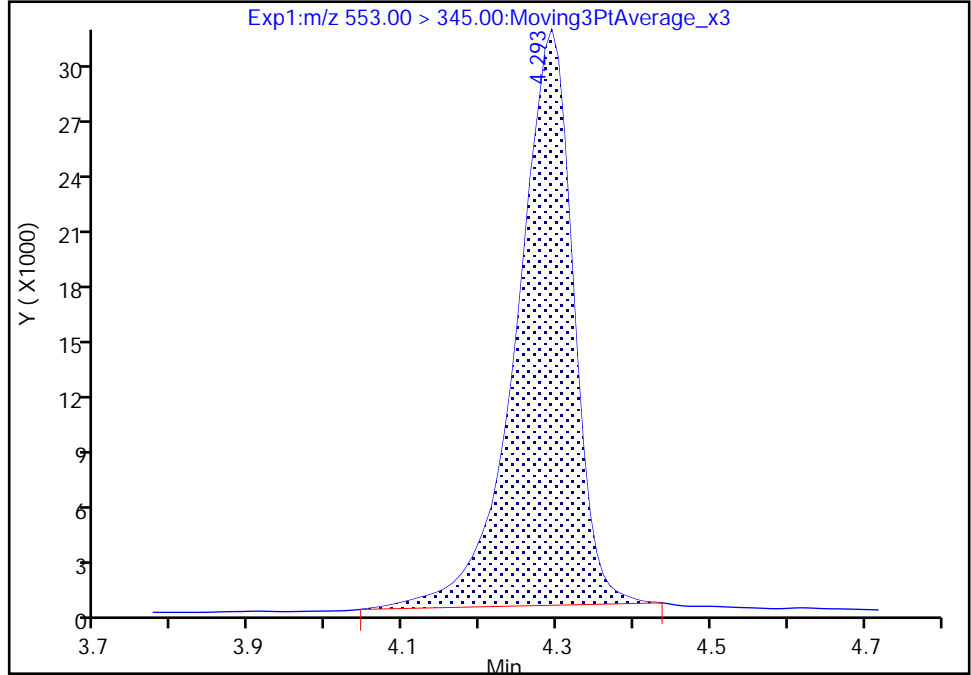
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

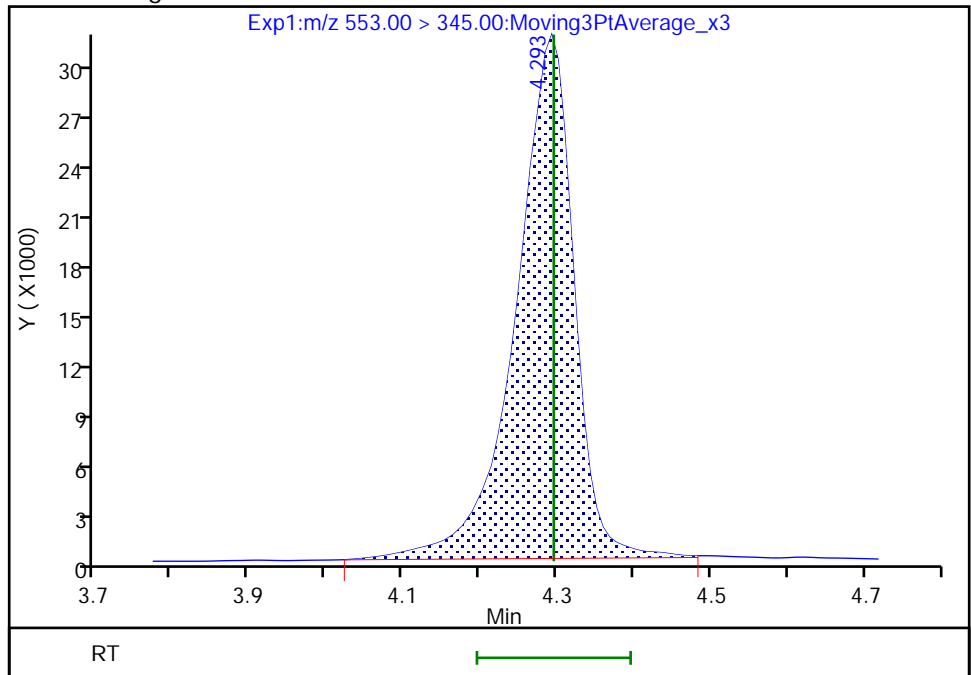
RT: 4.29
Area: 158223
Amount: 0.452526
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 163082
Amount: 0.466790
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:00:05
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

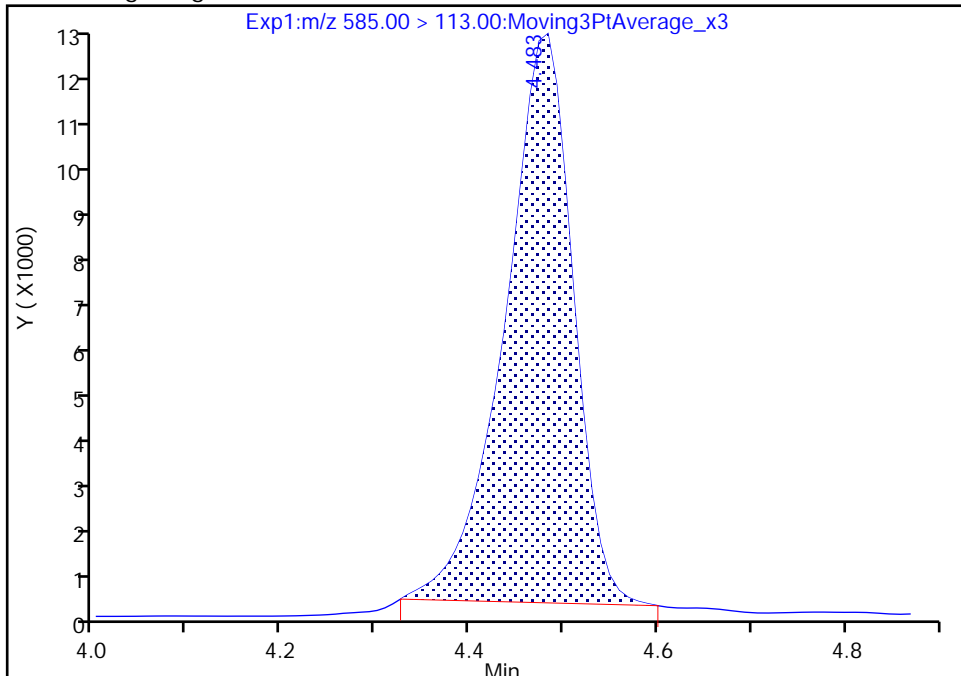
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

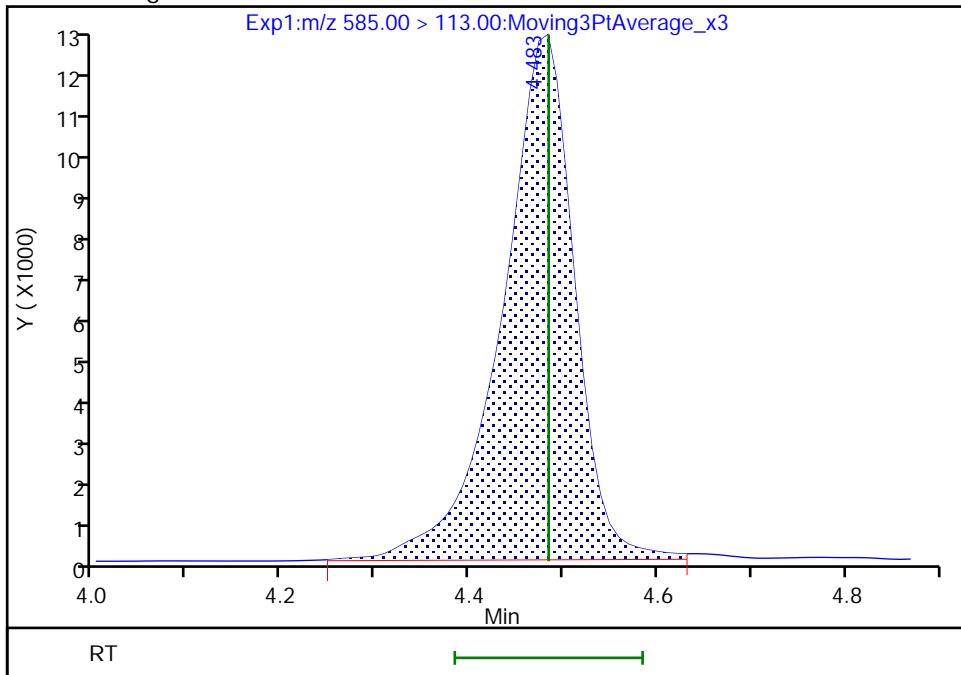
RT: 4.48
Area: 58990
Amount: 0.072555
Amount Units: ng/ml

Processing Integration Results



RT: 4.48
Area: 63988
Amount: 0.084588
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:00:11
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

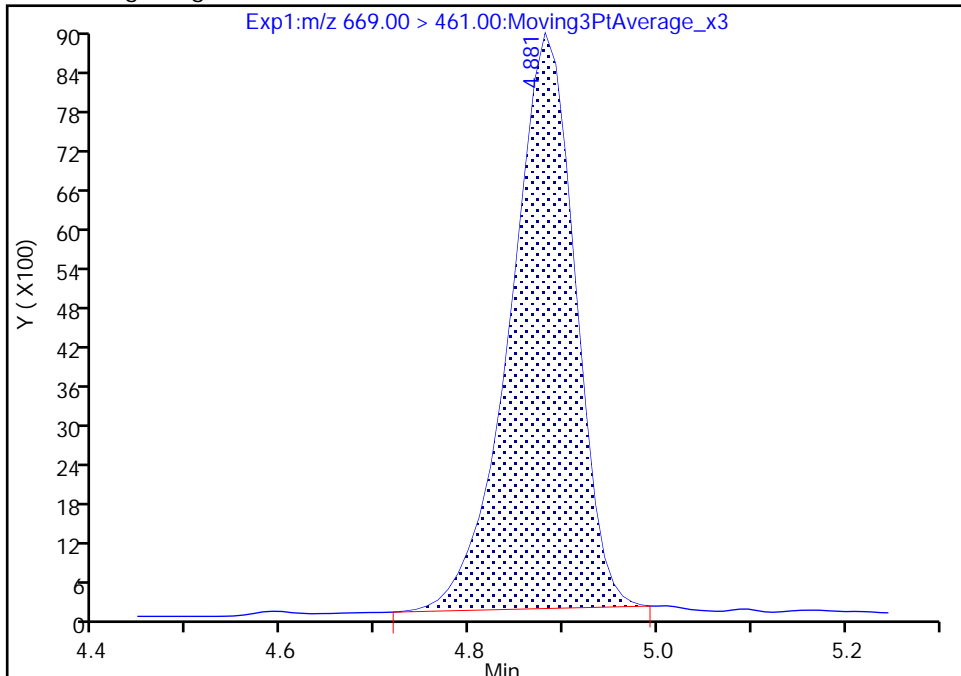
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-02.d
Injection Date: 01-Jun-2022 12:01:11 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

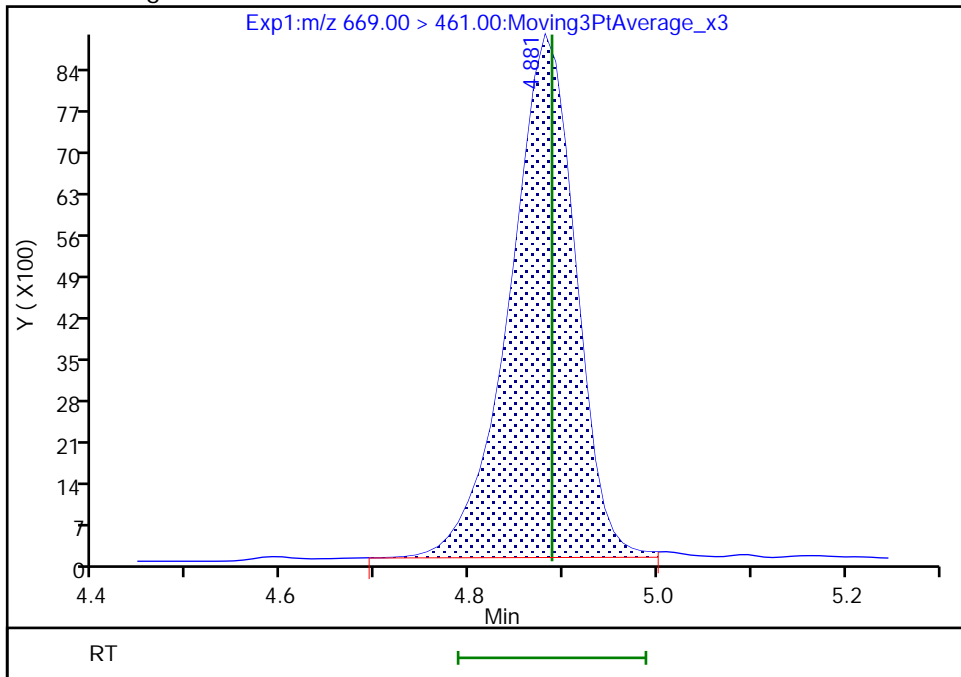
RT: 4.88
Area: 42193
Amount: 0.262373
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 43063
Amount: 0.277743
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:00:18
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 160 of 512

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Jun-2022 12:13:48 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:00:41

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.061	4.061	0.0	0.909	171038	0.3251	91.2	2652
2 BFS_A3B	519.00 > 113.00	4.137	4.138	-0.001	0.926	194295	0.3518	88.3	161
3 BFS_B3	553.00 > 345.00	4.294	4.296	-0.002	0.961	414974	1.19	94.0	391
4 BFS_A2B2	569.00 > 229.00	4.395	4.397	-0.002	0.984	804323	2.65	95.3	556
D 6 13C3 HFPO-DA	332.00 > 287.00	4.467	4.468	-0.001	0.880	753532	5.20	104	2524
5 BFS_A4B	585.00 > 113.00	4.477	4.484	-0.007	1.002	166026	0.2202	100	337
7 BFS_AB3	619.00 > 229.00	4.656	4.655	0.001	1.042	841017	2.98	100.0	897
8 BFS_A3B2	635.00 > 113.00	4.758	4.758	0.0	1.065	269883	0.5439	104	515
9 BFS_B4	669.00 > 461.00	4.884	4.888	-0.004	1.093	110459	0.7149	103	300
10 BFS_A2B3	685.00 > 571.00	4.967	4.994	-0.027	1.112	831	0.0541	103	32.0 M
* 11 13C2 PFOA	415.00 > 370.00	5.074	5.074	0.0		4476696	5.00		2701

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-03.d

Injection Date: 01-Jun-2022 12:13:48

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

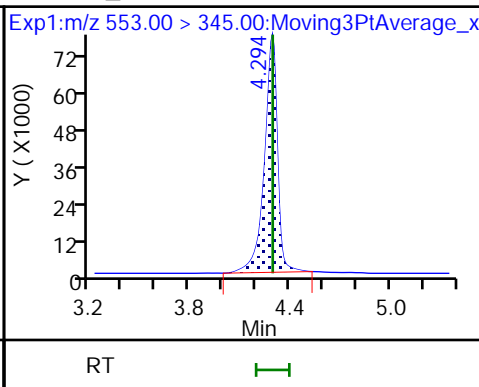
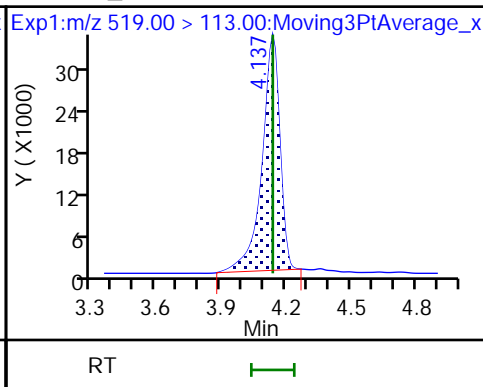
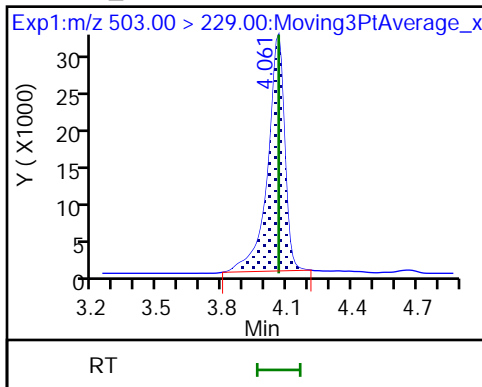
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

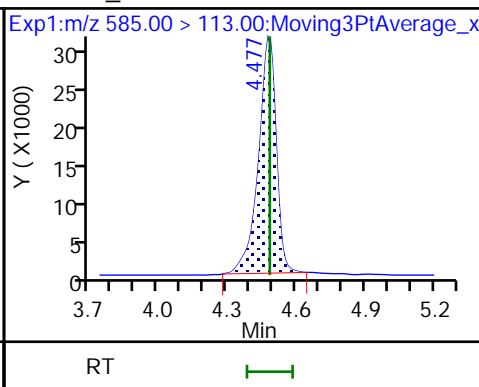
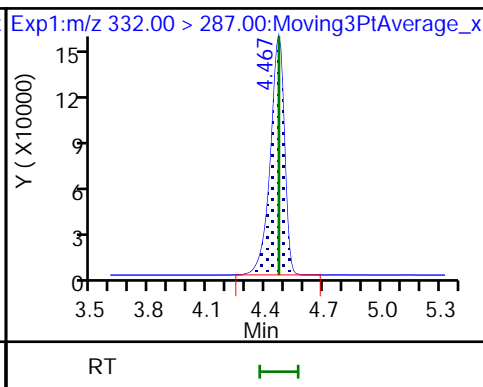
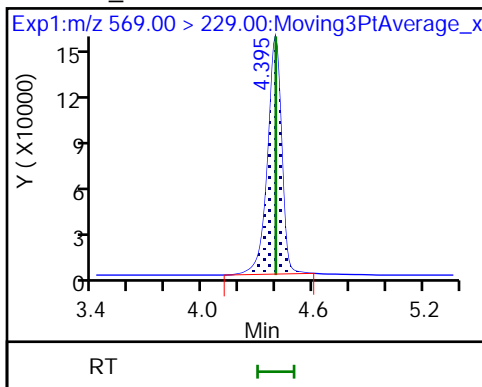
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

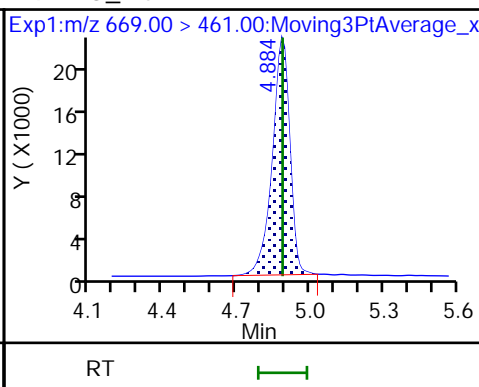
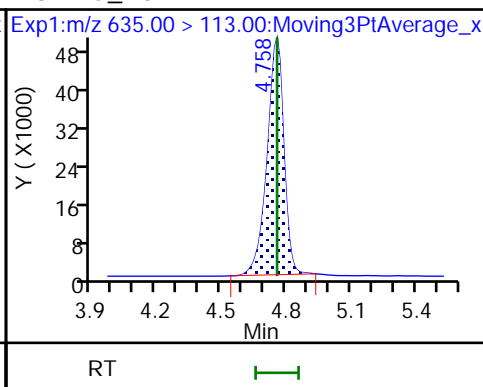
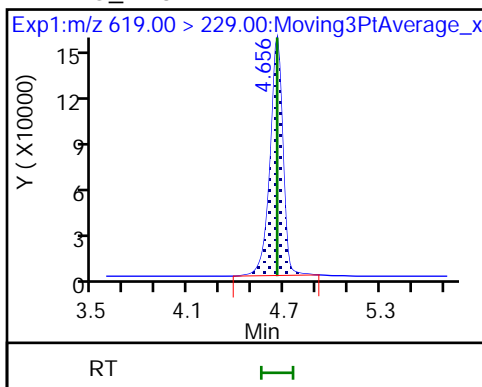
5 BFS_A4B



7 BFS_AB3

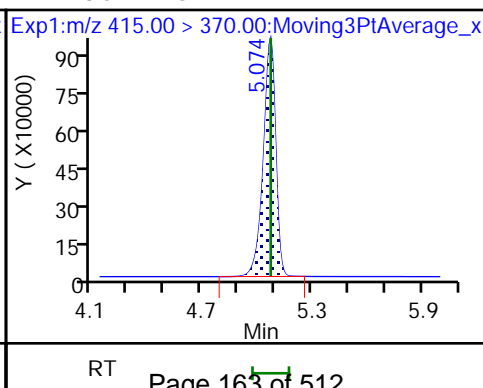
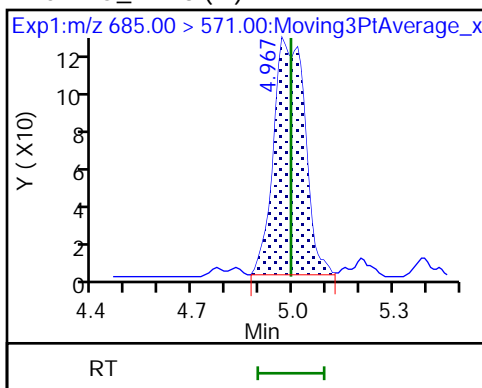
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

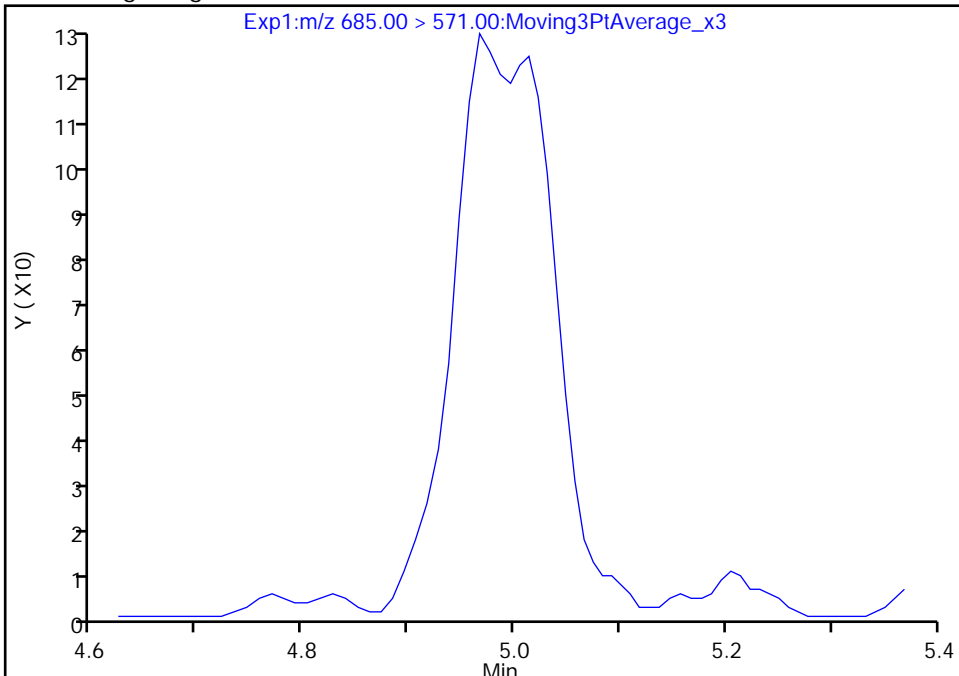
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-03.d
Injection Date: 01-Jun-2022 12:13:48 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

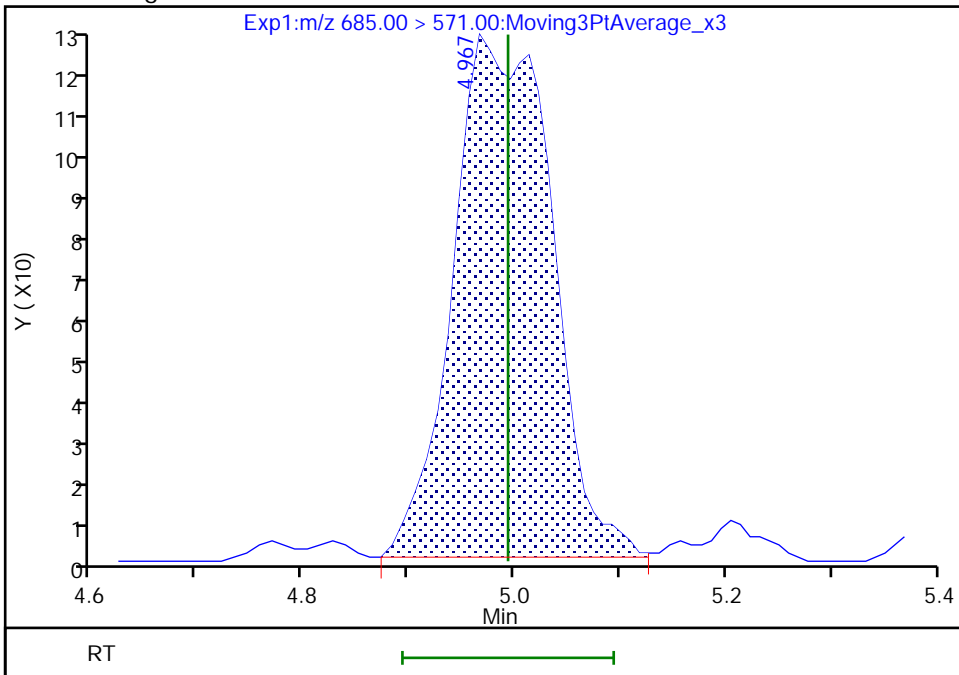
Not Detected
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.97
Area: 831
Amount: 0.054103
Amount Units: ng/ml



Reviewer: kruelleh, 01-Jun-2022 14:00:37
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Jun-2022 12:26:25 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:01:30

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.062	4.061	0.001	0.909	427530	0.8171	91.7	3947
2 BFS_A3B	519.00 > 113.00	4.138	4.138	0.0	0.926	513420	0.9347	93.9	189
3 BFS_B3	553.00 > 345.00	4.295	4.296	-0.001	0.961	1071990	3.10	97.8	491
4 BFS_A2B2	569.00 > 229.00	4.394	4.397	-0.003	0.984	2119206	7.02	101	1229
D 6 13C3 HFPO-DA	332.00 > 287.00	4.467	4.468	-0.001	0.880	749330	5.17	103	2148
5 BFS_A4B	585.00 > 113.00	4.485	4.484	0.001	1.004	435077	0.5804	106	457
7 BFS_AB3	619.00 > 229.00	4.655	4.655	0.0	1.042	2092742	7.46	100	913 M
8 BFS_A3B2	635.00 > 113.00	4.758	4.758	0.0	1.065	687074	1.39	106	785
9 BFS_B4	669.00 > 461.00	4.884	4.888	-0.004	1.093	278773	1.81	105	449
10 BFS_A2B3	685.00 > 571.00	4.995	4.994	0.001	1.118	2106	0.1379	105	61.4 M
* 11 13C2 PFOA	415.00 > 370.00	5.073	5.074	-0.001		4476890	5.00		3193

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d

Injection Date: 01-Jun-2022 12:26:25

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

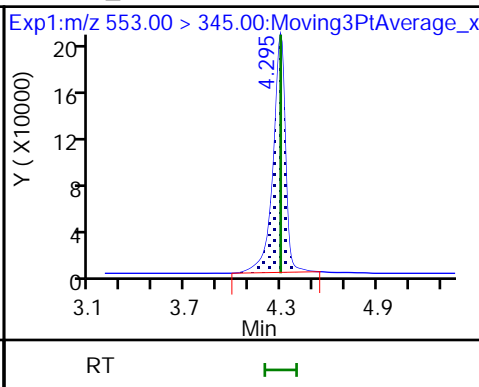
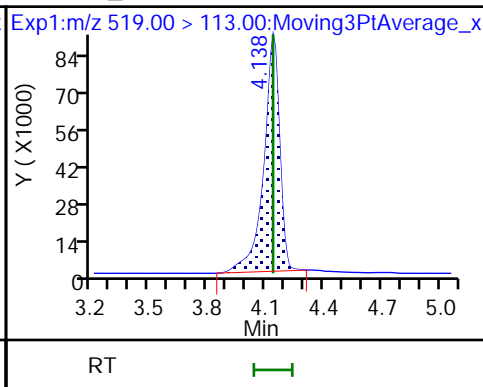
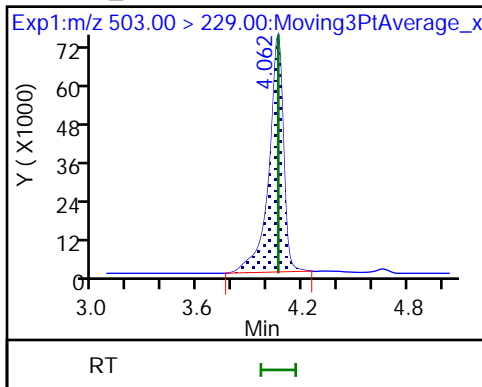
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

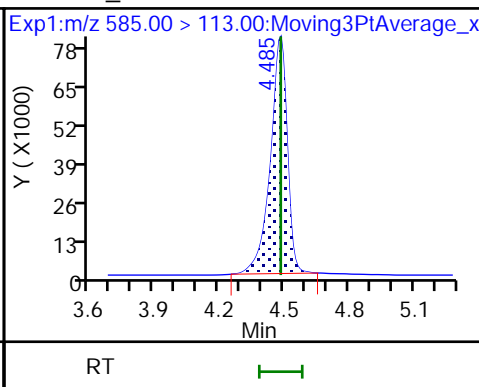
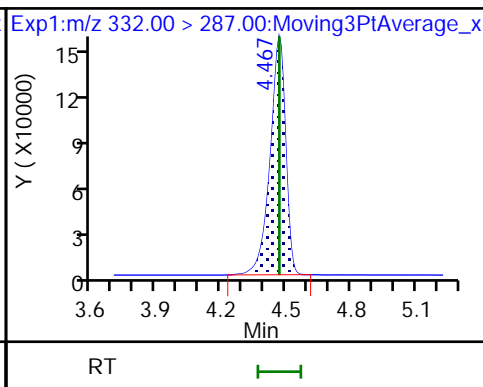
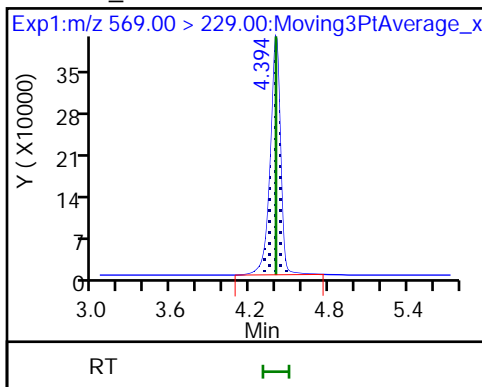
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

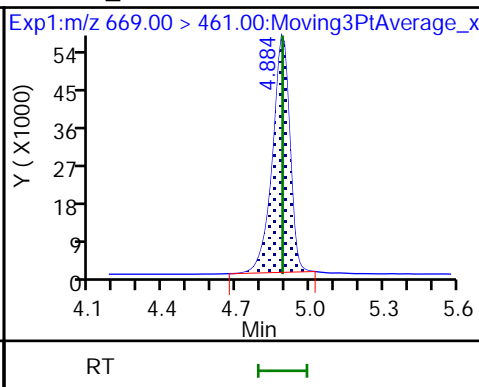
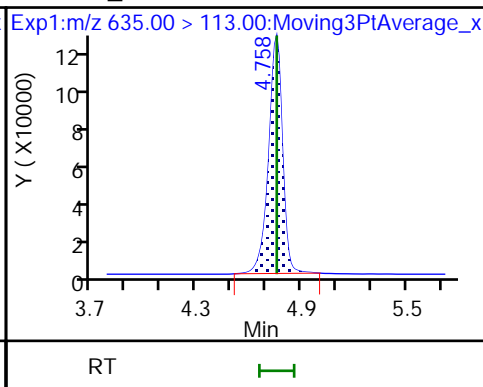
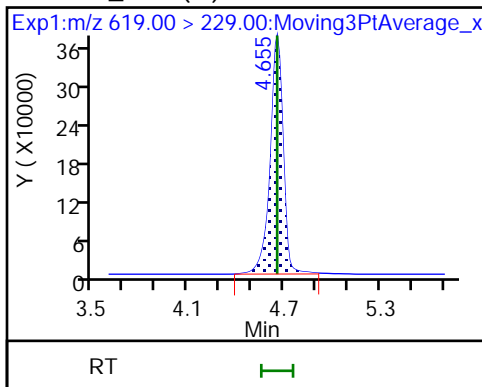
5 BFS_A4B



7 BFS_AB3 (M)

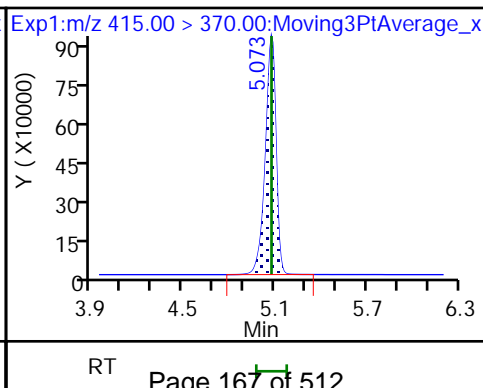
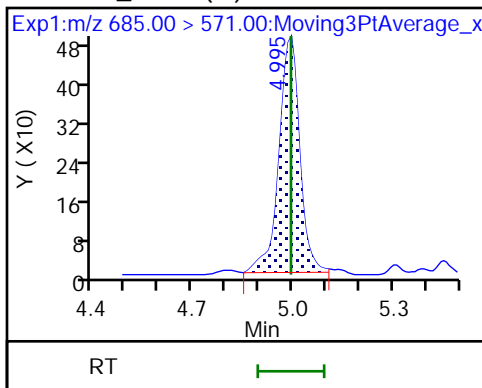
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

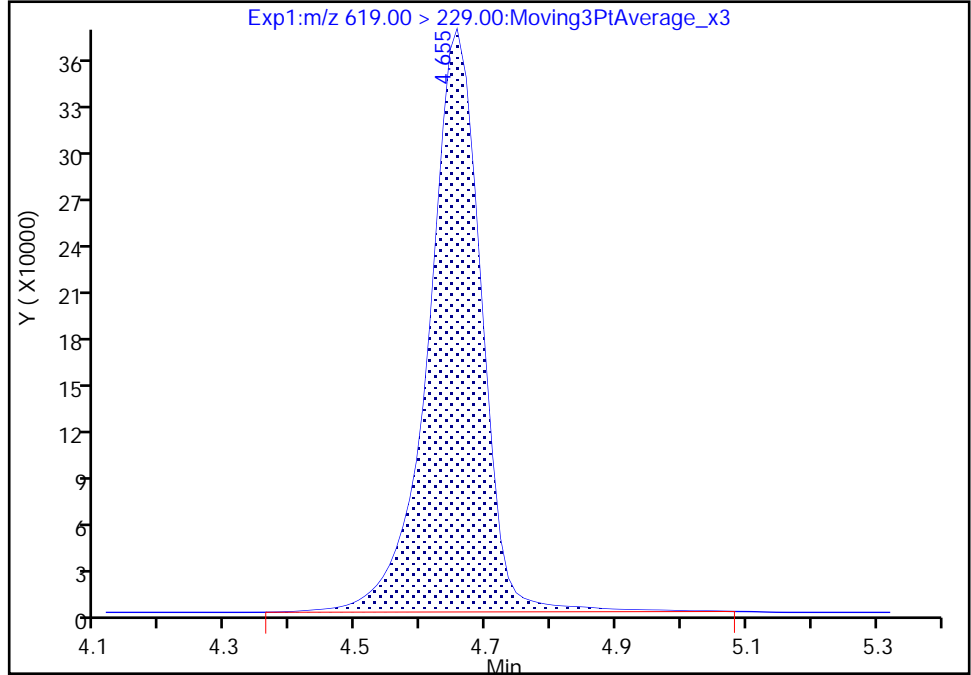
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d
Injection Date: 01-Jun-2022 12:26:25 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

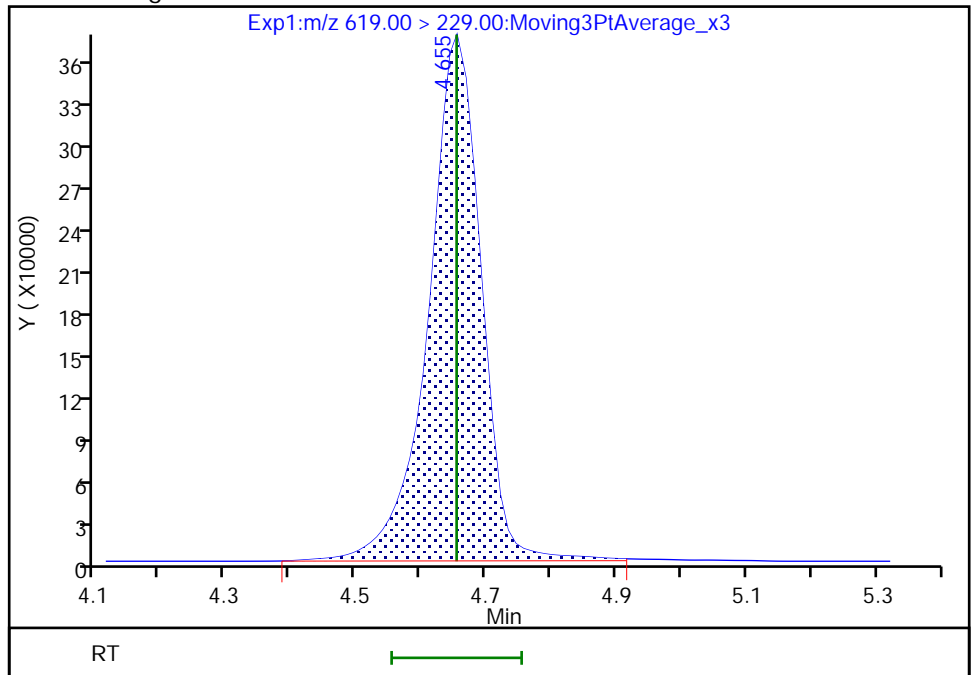
RT: 4.66
Area: 2097796
Amount: 7.751945
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 2092742
Amount: 7.456230
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:20
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

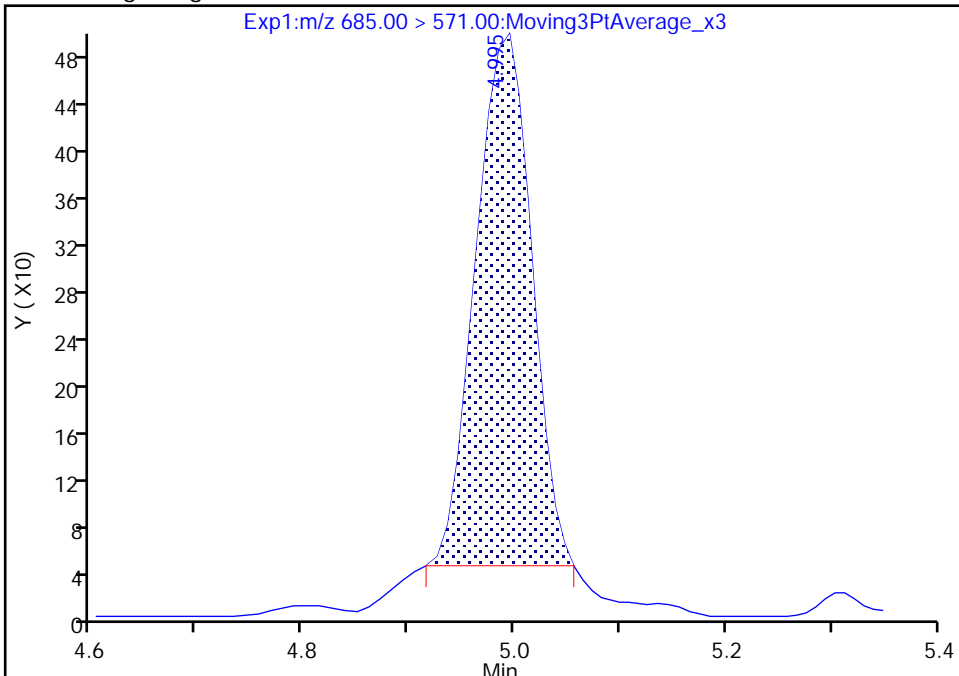
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-04.d
Injection Date: 01-Jun-2022 12:26:25 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

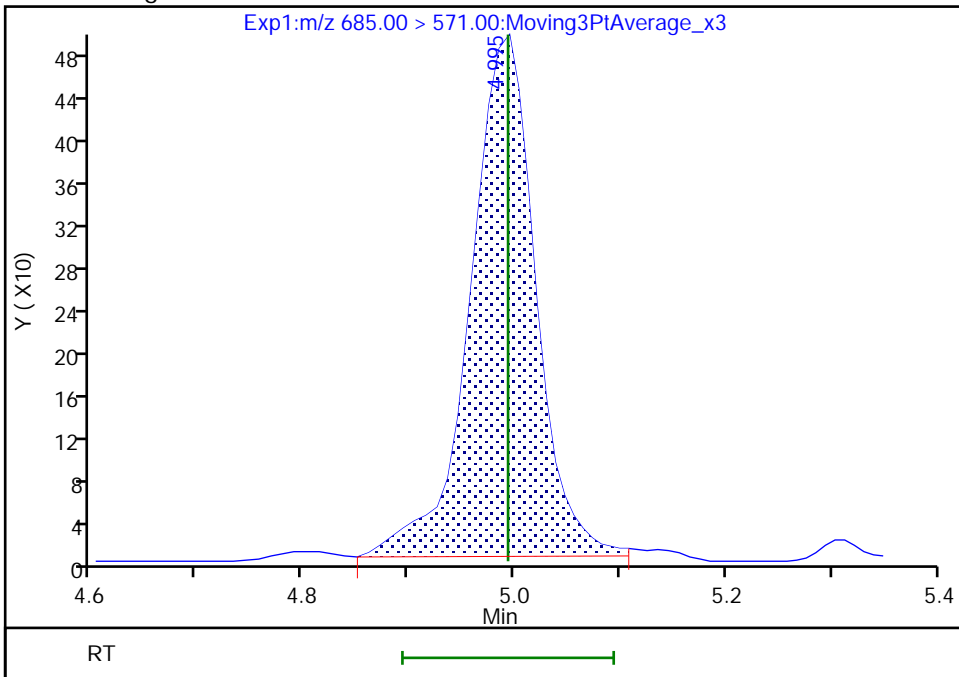
RT: 5.00
Area: 1661
Amount: 0.118038
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 2106
Amount: 0.137882
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:26
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 169 of 512

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 01-Jun-2022 12:39:02 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:51 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:58:41

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags	
1 BFS_AB2	503.00 > 229.00	4.059	4.061	-0.002	0.910	846634	1.71	95.8	5031	
2 BFS_A3B	519.00 > 113.00	4.135	4.138	-0.003	0.927	1013274	1.94	97.7	220	
3 BFS_B3	553.00 > 345.00	4.287	4.296	-0.009	0.961	2240373	6.84	108	788	
4 BFS_A2B2	569.00 > 229.00	4.396	4.397	-0.001	0.986	4219900	14.8	107	1007	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.459	4.468	-0.009	0.880	710727	5.10	102	1786	
5 BFS_A4B	585.00 > 113.00	4.478	4.484	-0.006	1.004	886268	1.25	113	749	
7 BFS_AB3	619.00 > 229.00	4.646	4.655	-0.009	1.042	4383968	16.5	111	2342	
8 BFS_A3B2	635.00 > 113.00	4.747	4.758	-0.011	1.065	1423801	3.04	116	940	
9 BFS_B4	669.00 > 461.00	4.885	4.888	-0.003	1.096	563680	3.87	112	728	
10 BFS_A2B3	685.00 > 571.00	4.987	4.994	-0.007	1.118	3428	0.2366	90.3	125	Ma M
* 11 13C2 PFOA	415.00 > 370.00	5.067	5.074	-0.007		4302981	5.00		2313	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-05.d

Injection Date: 01-Jun-2022 12:39:02

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

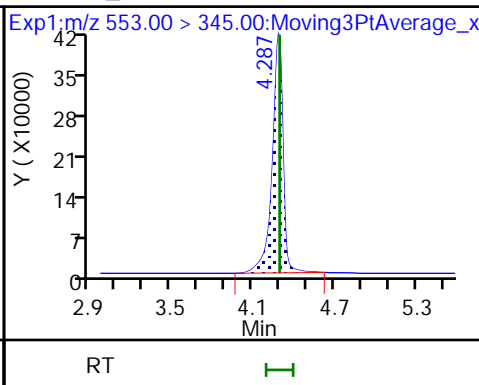
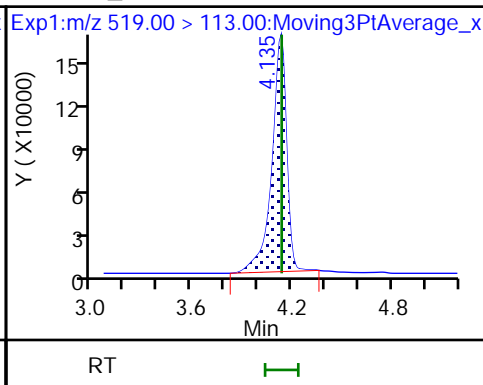
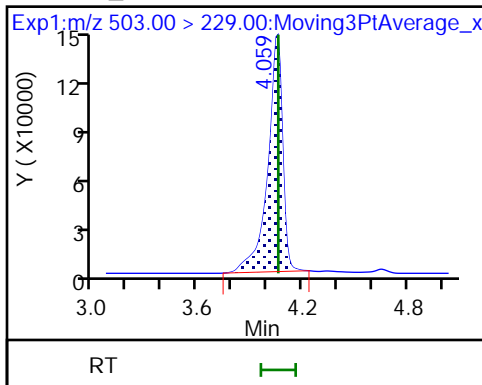
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

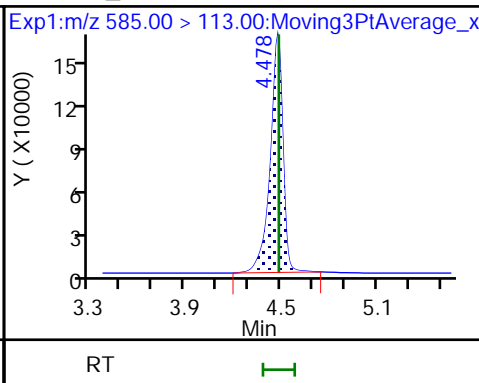
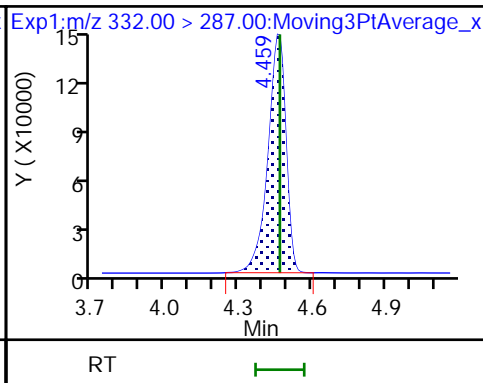
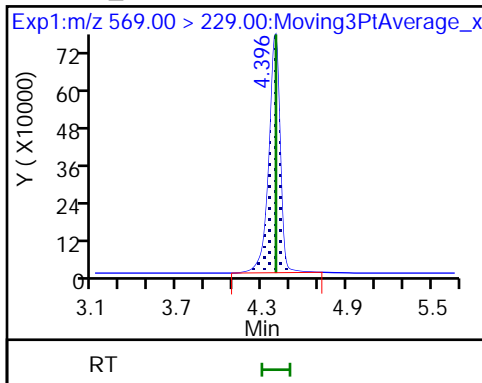
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

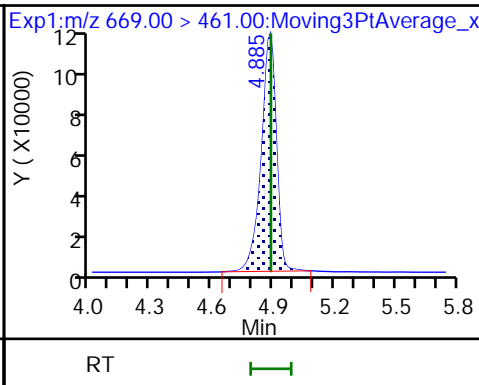
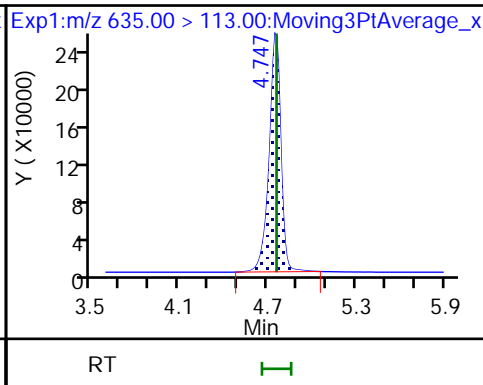
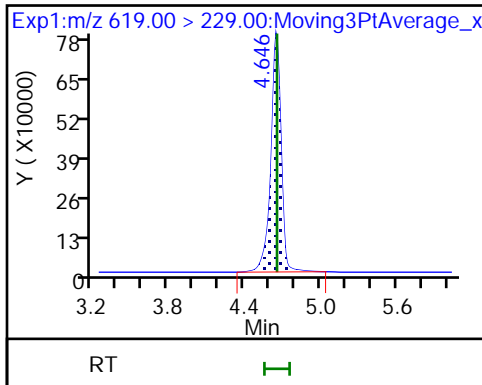
5 BFS_A4B



7 BFS_AB3

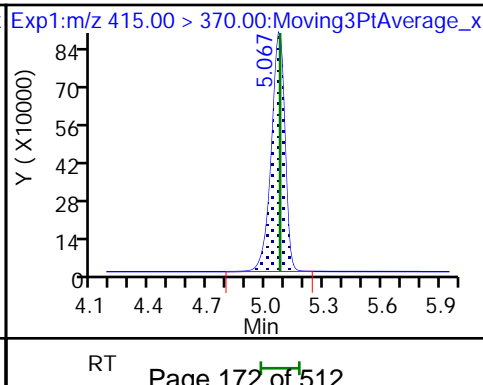
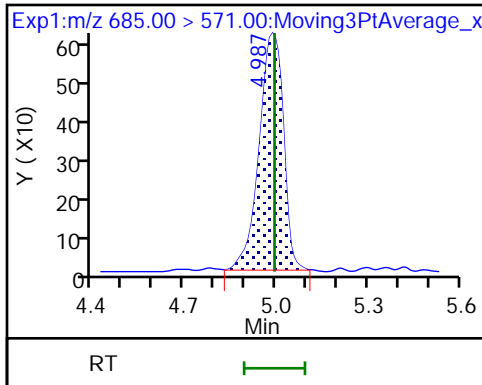
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

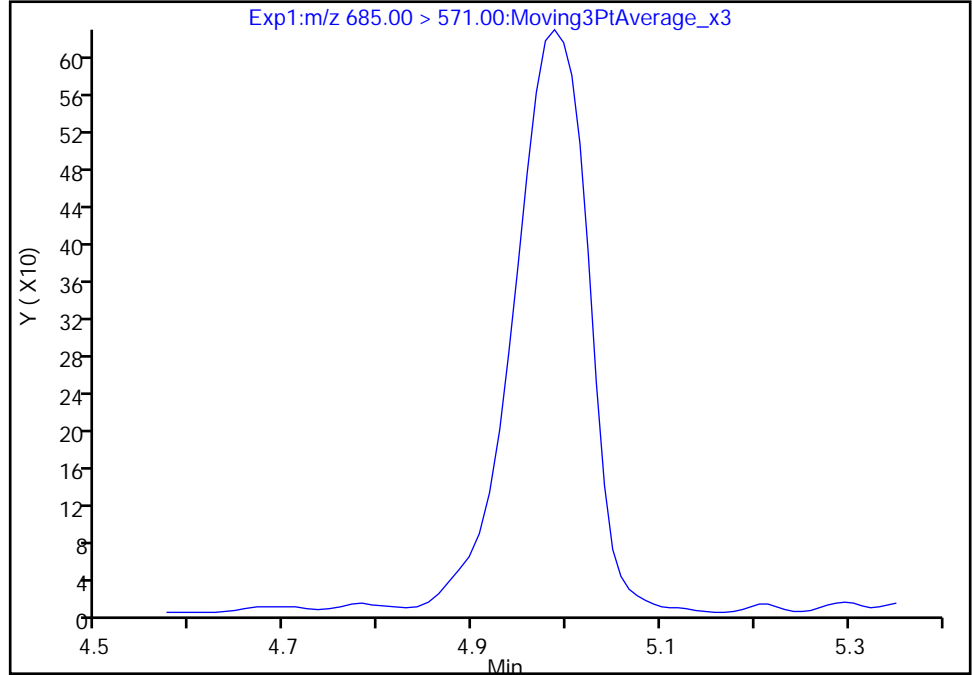
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-05.d
Injection Date: 01-Jun-2022 12:39:02 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

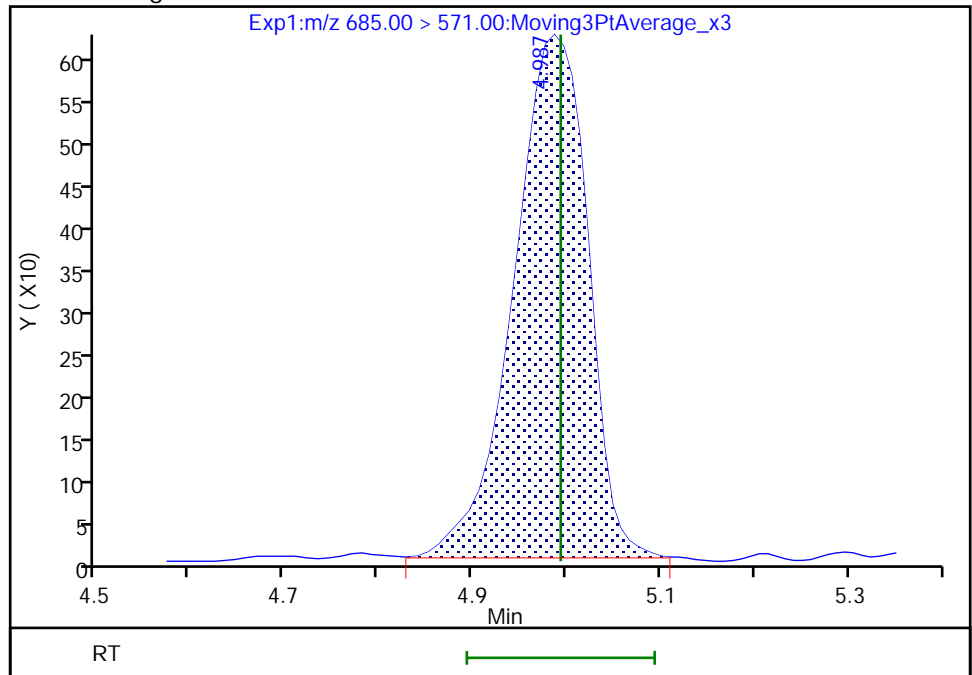
Not Detected
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 3428
Amount: 0.236624
Amount Units: ng/ml



Reviewer: kruelleh, 01-Jun-2022 13:58:35
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 01-Jun-2022 12:51:39 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:52 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:02:20

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.065	4.061	0.004	0.909	2034419	4.15	93.2	6676
2 BFS_A3B	519.00 > 113.00	4.141	4.138	0.003	0.926	2380227	4.62	92.9	260
3 BFS_B3	553.00 > 345.00	4.298	4.296	0.002	0.961	5230603	16.2	102	729 M
4 BFS_A2B2	569.00 > 229.00	4.398	4.397	0.001	0.984	10000371	35.8	103	787 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.470	4.468	0.002	0.881	702341	4.92	98.5	2348
5 BFS_A4B	585.00 > 113.00	4.489	4.484	0.005	1.004	2059941	2.93	107	506 M
7 BFS_AB3	619.00 > 229.00	4.658	4.655	0.003	1.042	9417379	36.1	97.2	1089 M
8 BFS_A3B2	635.00 > 113.00	4.760	4.758	0.002	1.065	3134979	6.78	104	1274
9 BFS_B4	669.00 > 461.00	4.885	4.888	-0.003	1.093	1325888	9.21	107	1105
10 BFS_A2B3	685.00 > 571.00	5.005	4.994	0.011	1.120	8465	0.5913	90.3	180 M
* 11 13C2 PFOA	415.00 > 370.00	5.074	5.074	0.0		4406104	5.00		2538

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d

Injection Date: 01-Jun-2022 12:51:39

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

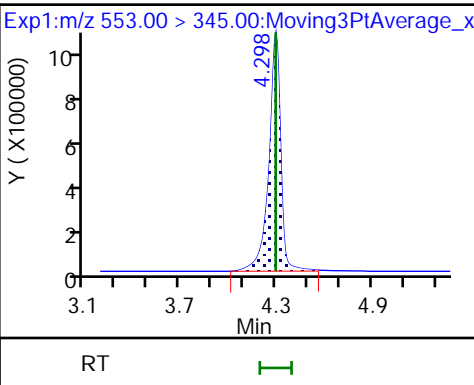
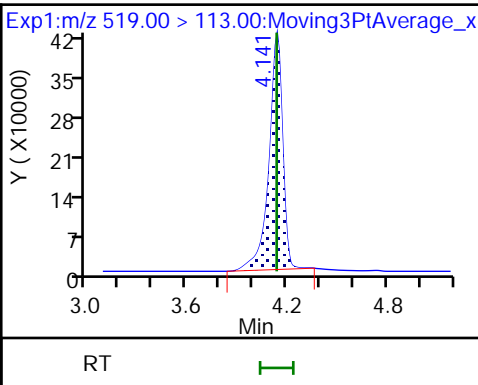
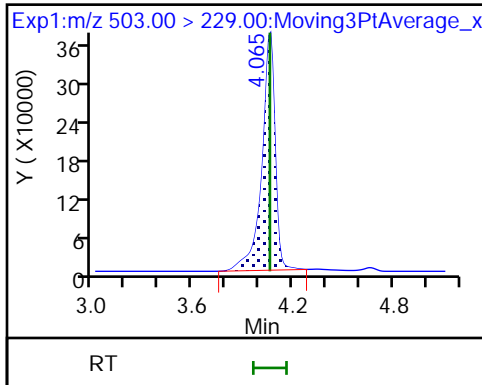
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

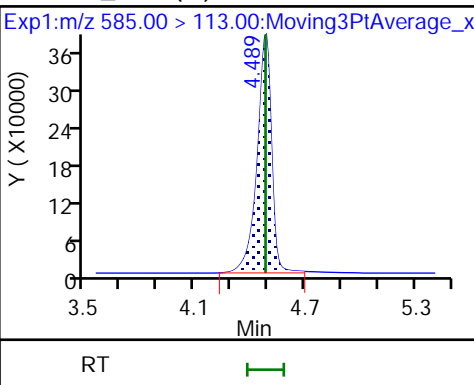
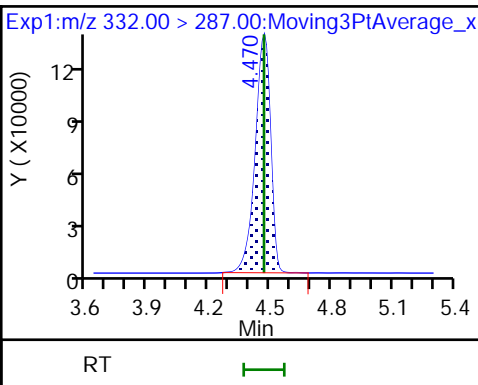
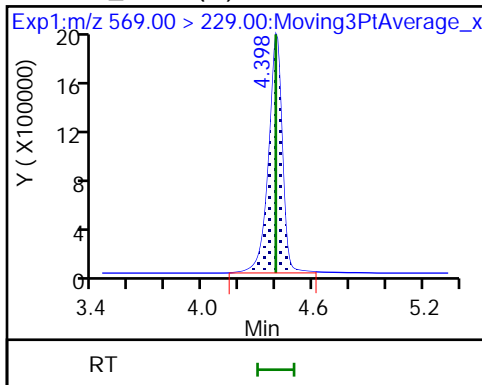
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

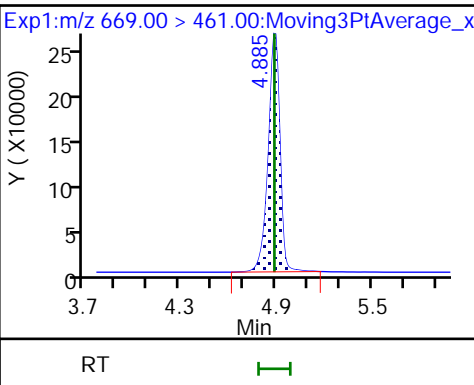
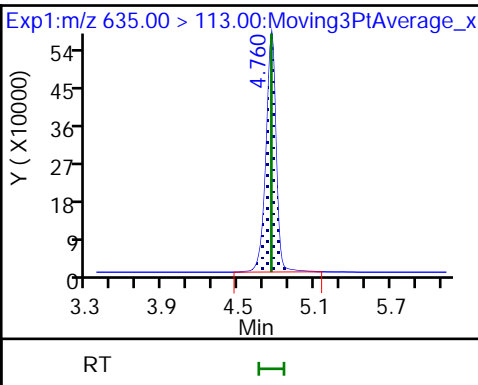
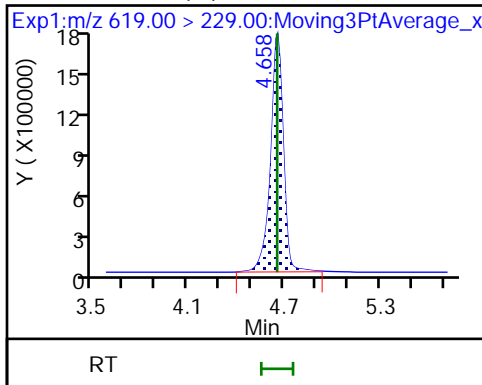
5 BFS_A4B (M)



7 BFS_AB3 (M)

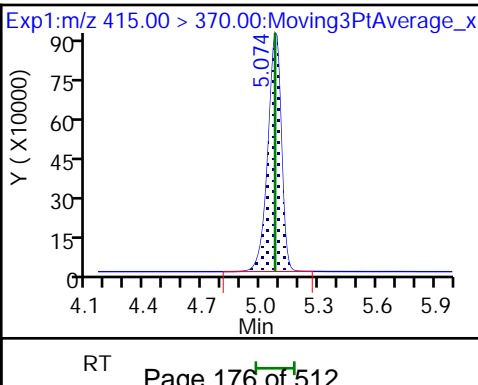
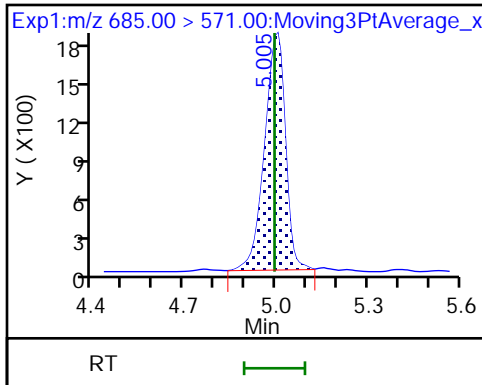
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

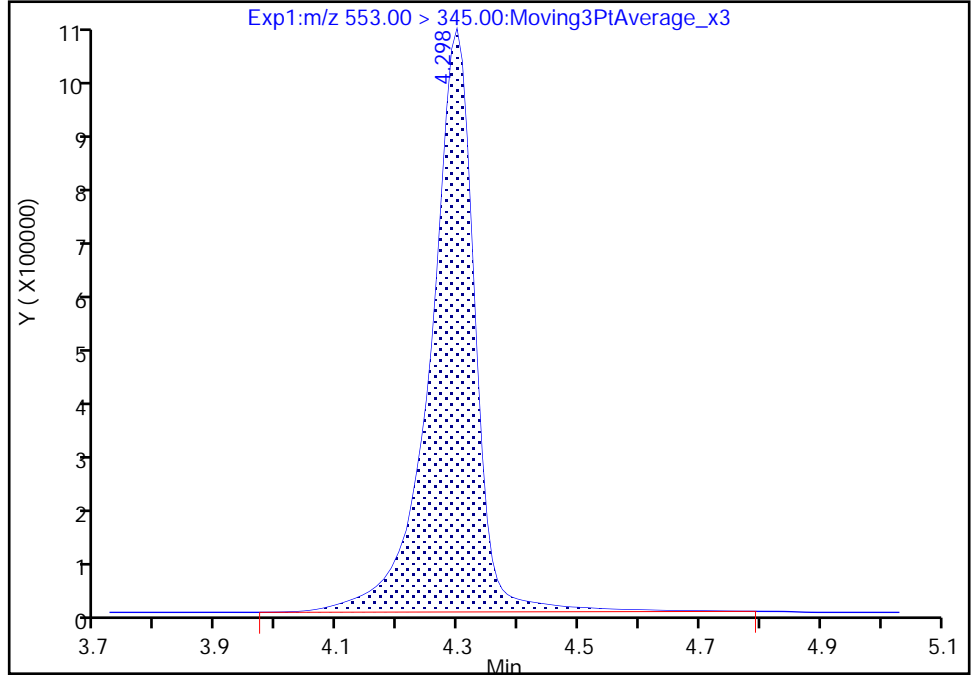
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

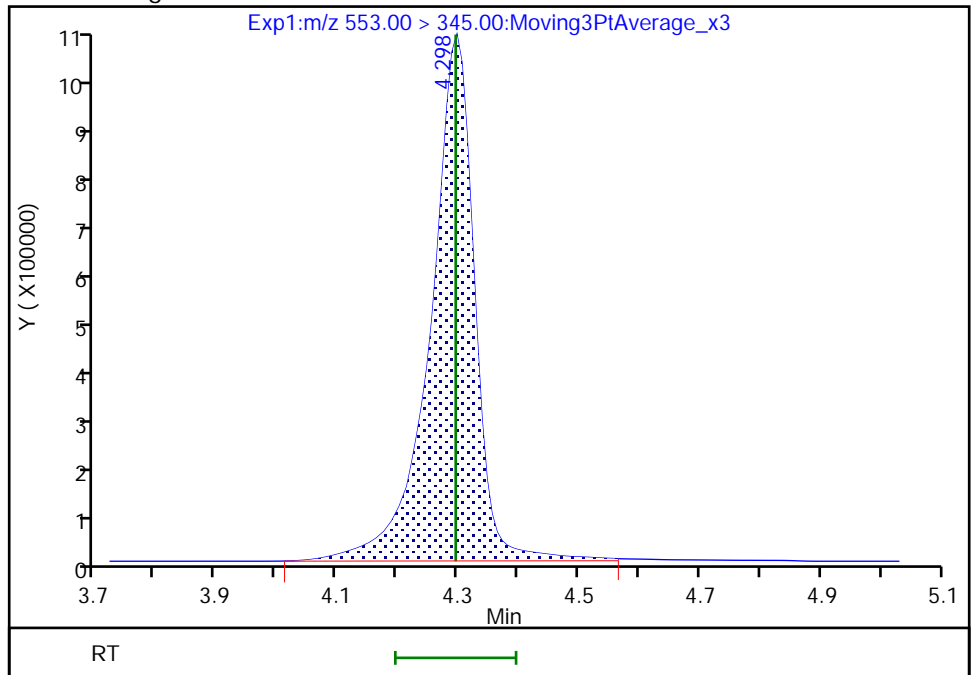
RT: 4.30
Area: 5246043
Amount: 16.149717
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 5230603
Amount: 16.211092
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:43
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

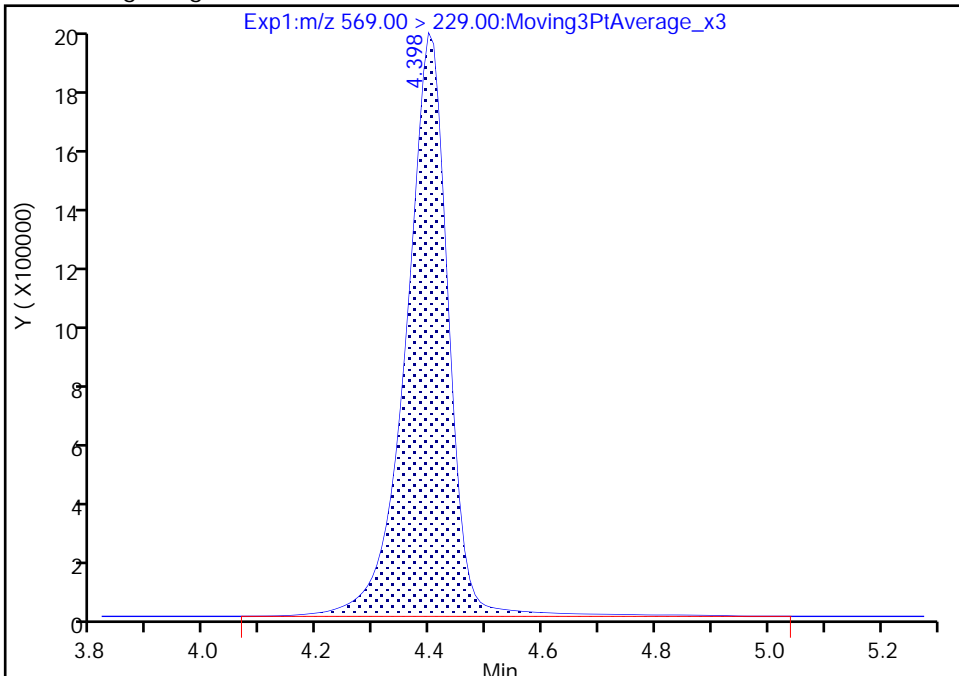
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

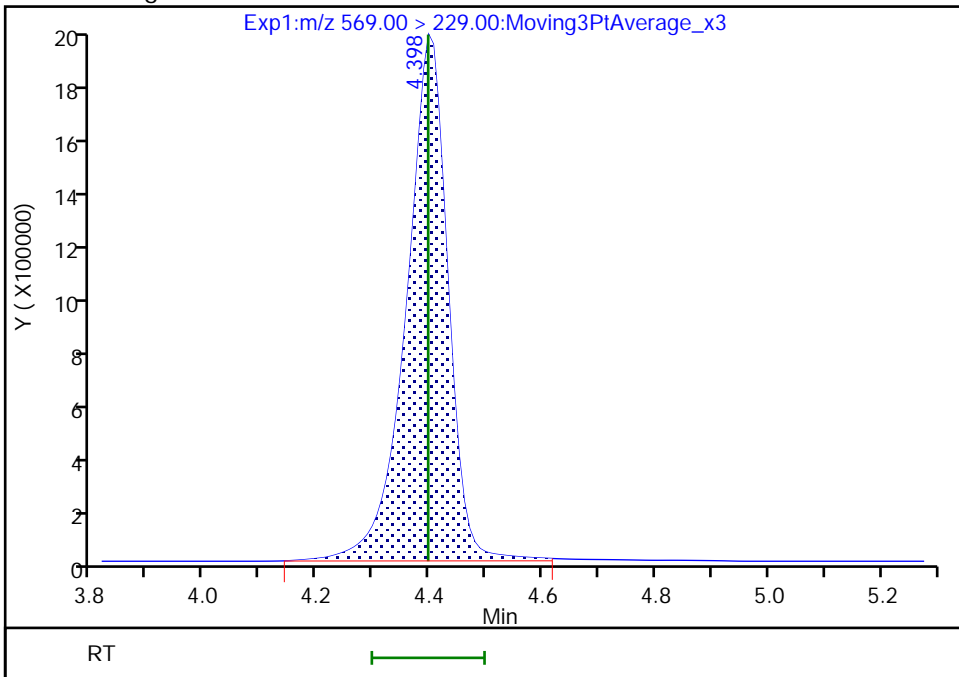
RT: 4.40
Area: 10128835
Amount: 35.729478
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 10000371
Amount: 35.830759
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:01:56
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

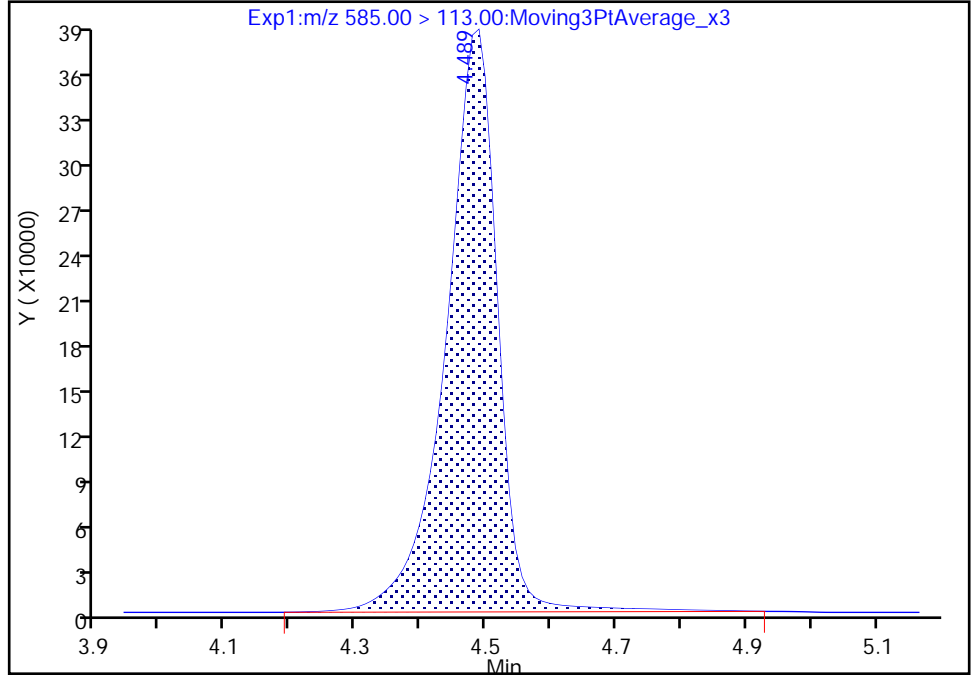
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

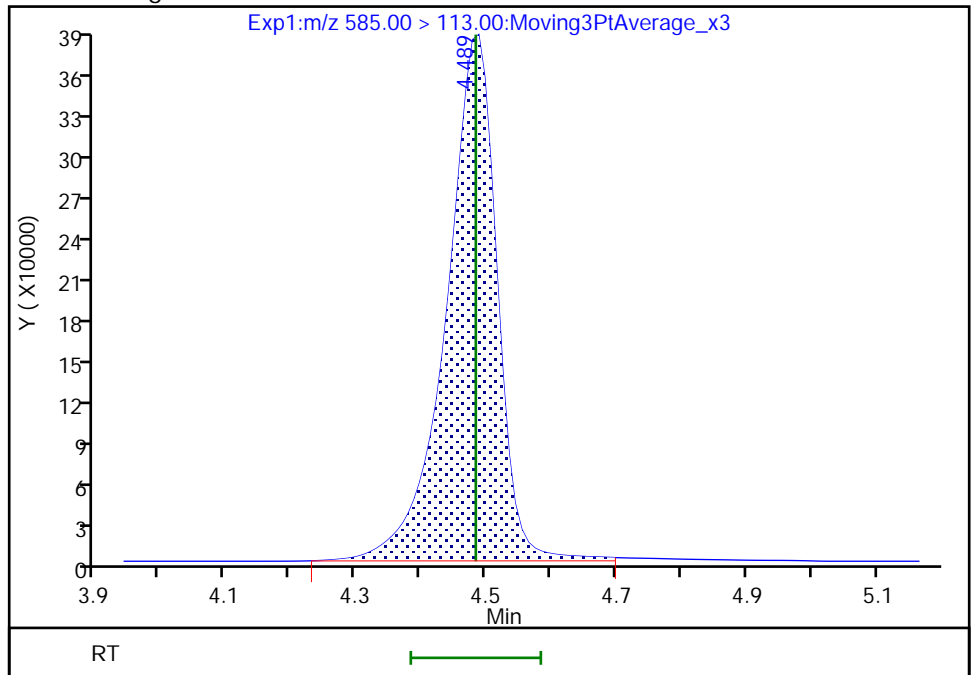
RT: 4.49
Area: 2073375
Amount: 2.743888
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 2059941
Amount: 2.931745
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:02
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

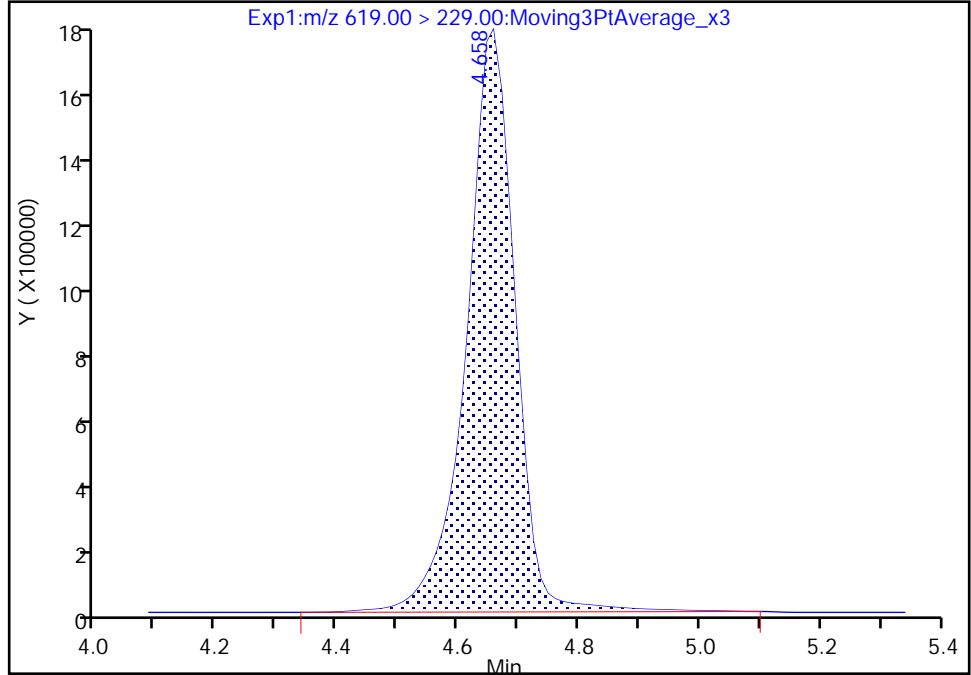
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

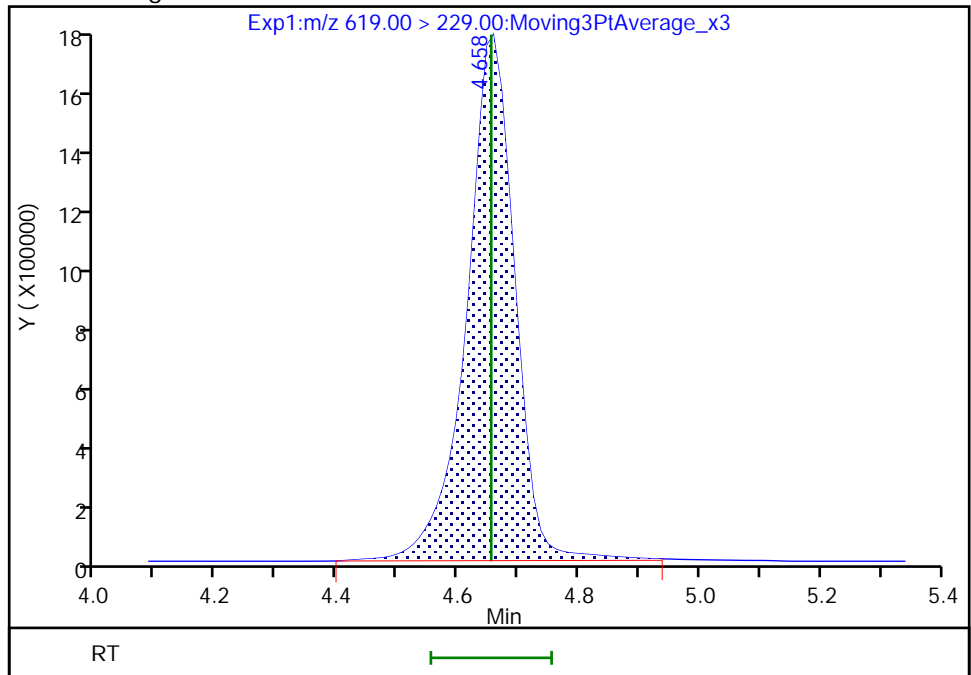
RT: 4.66
Area: 9465999
Amount: 37.324808
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 9417379
Amount: 36.136929
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:07
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

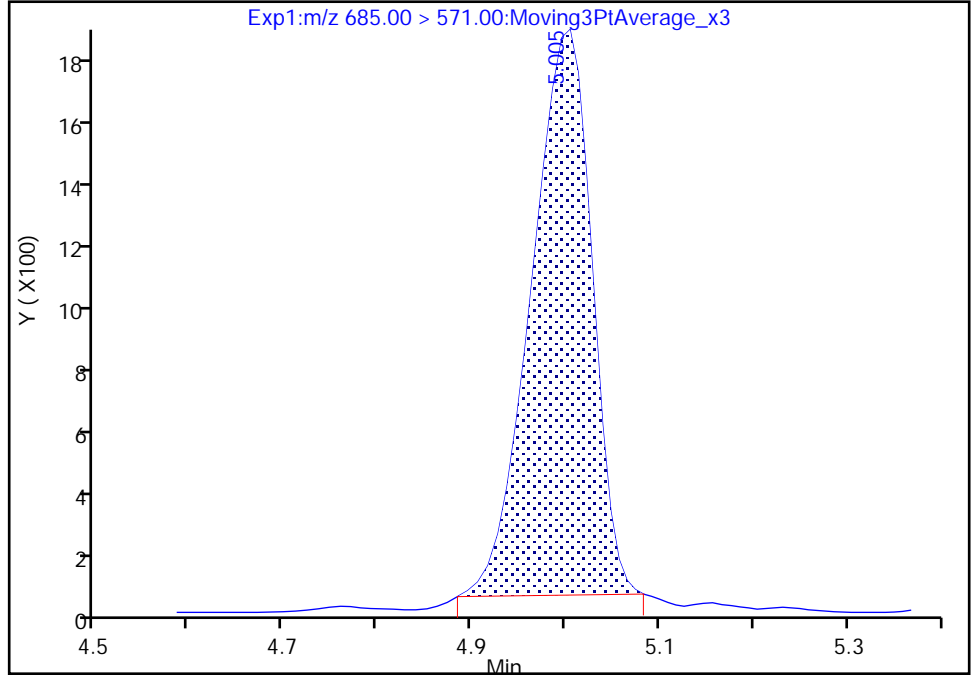
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-06.d
Injection Date: 01-Jun-2022 12:51:39 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

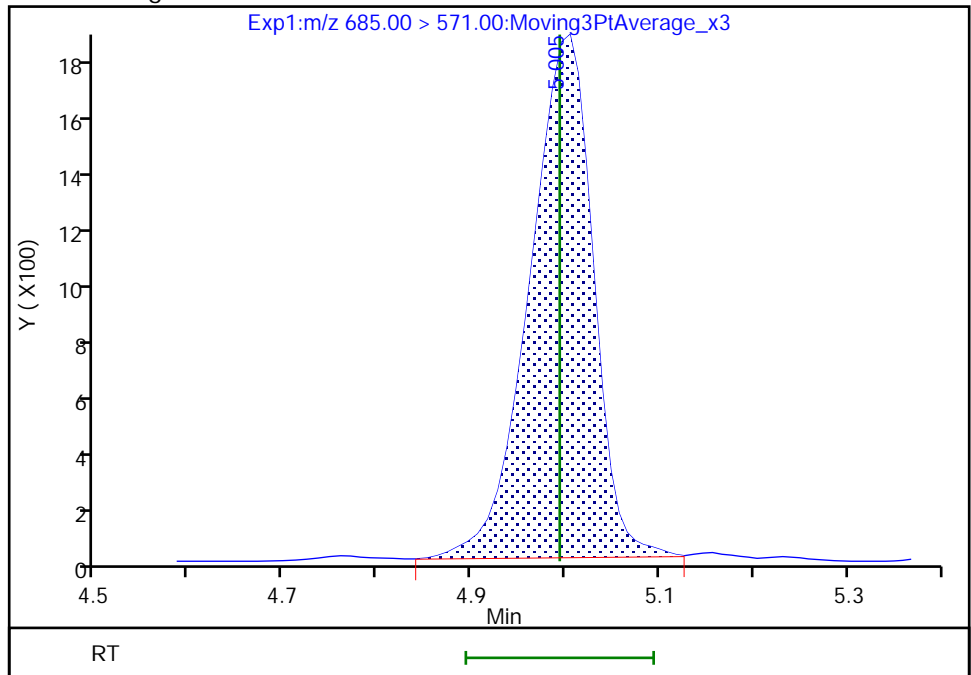
RT: 5.00
Area: 7879
Amount: 0.589638
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 8465
Amount: 0.591290
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:14
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Jun-2022 13:04:16 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:53 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:03:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.064	4.061	0.003	0.909	4544165	8.41	94.5	7282	M
2 BFS_A3B									
519.00 > 113.00	4.140	4.138	0.002	0.926	5363405	9.46	95.0	200	
3 BFS_B3									M
553.00 > 345.00	4.297	4.296	0.001	0.961	11020475	31.2	98.4	739	M
4 BFS_A2B2									
569.00 > 229.00	4.397	4.397	0.0	0.984	21133838	69.8	101	493681	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.469	4.468	0.001	0.881	773603	4.99	99.8	2316	
5 BFS_A4B									M
585.00 > 113.00	4.488	4.484	0.004	1.004	4510215	5.83	106	628	M
7 BFS_AB3									
619.00 > 229.00	4.658	4.655	0.003	1.042	19995143	70.5	94.7	186442	
8 BFS_A3B2									
635.00 > 113.00	4.760	4.758	0.002	1.065	6861654	13.5	103	2004	
9 BFS_B4									
669.00 > 461.00	4.896	4.888	0.008	1.095	2757789	17.4	101	1822	
10 BFS_A2B3									M
685.00 > 571.00	4.996	4.994	0.002	1.118	21014	1.33	102	353	M
* 11 13C2 PFOA									
415.00 > 370.00	5.075	5.074	0.001		4788966	5.00		3063	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d

Injection Date: 01-Jun-2022 13:04:16

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

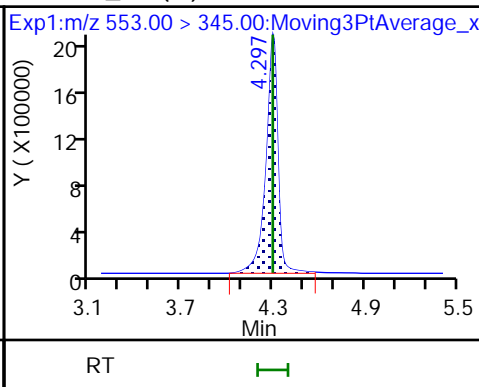
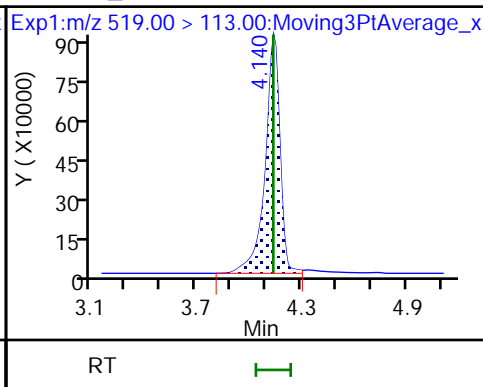
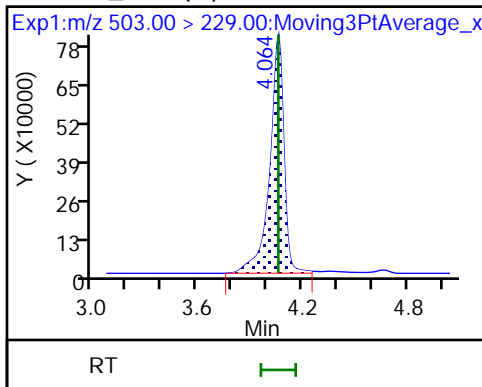
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B

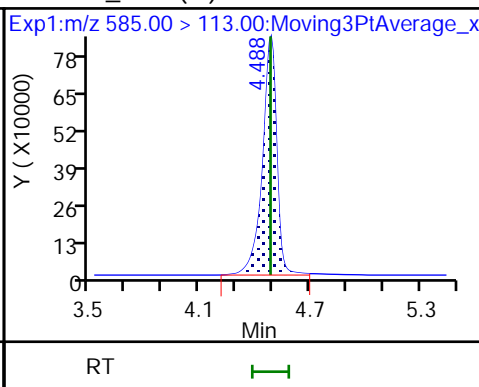
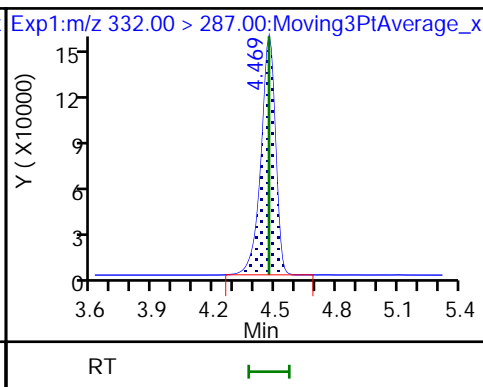
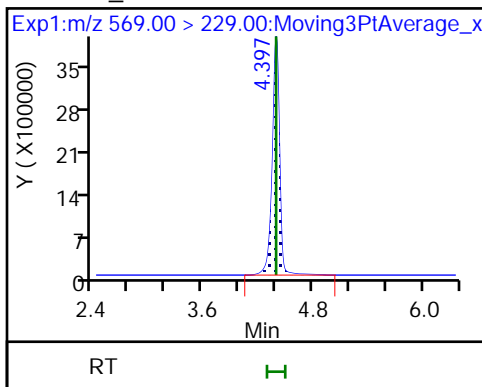
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

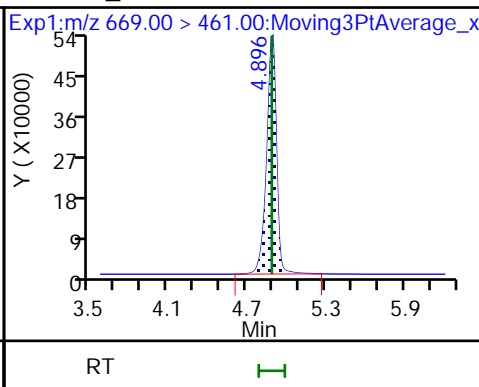
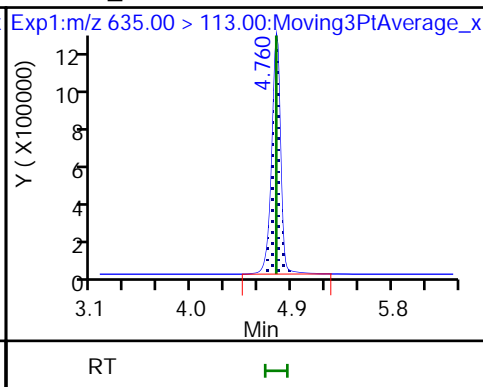
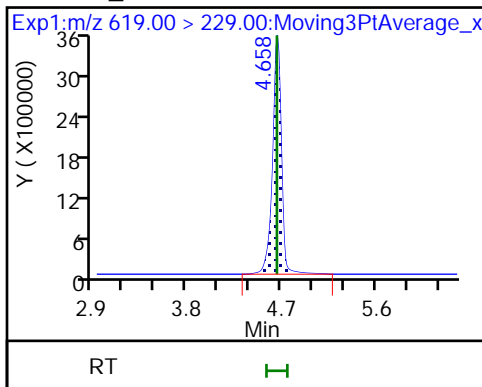
5 BFS_A4B (M)



7 BFS_AB3

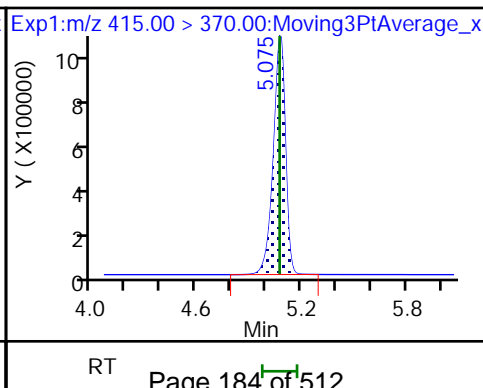
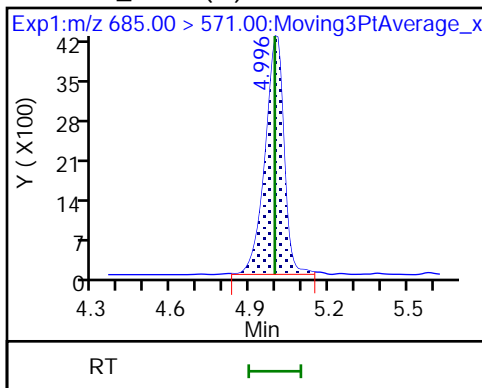
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

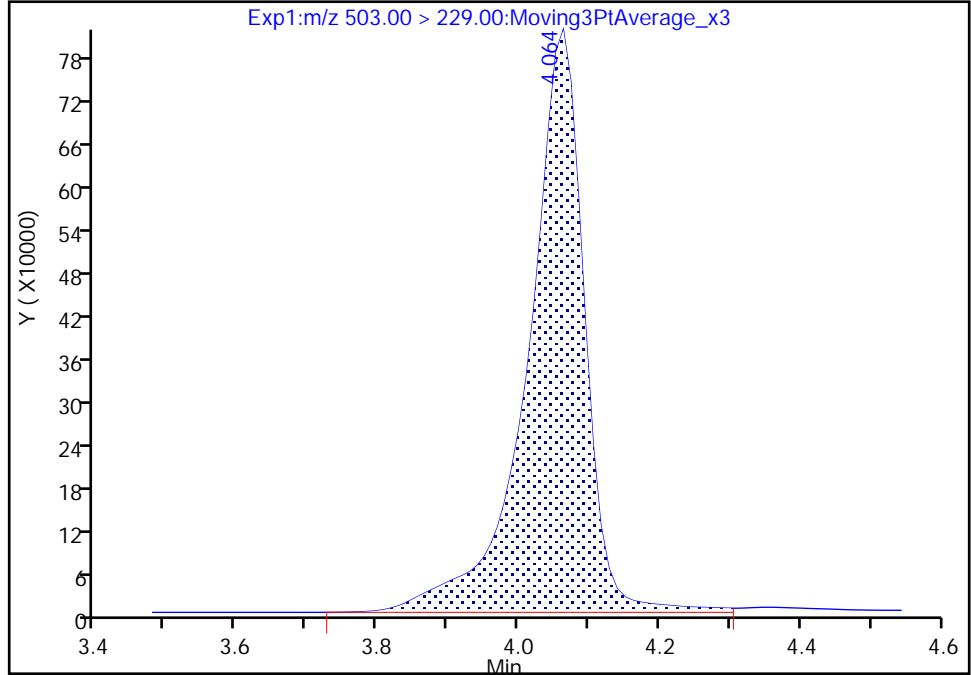
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

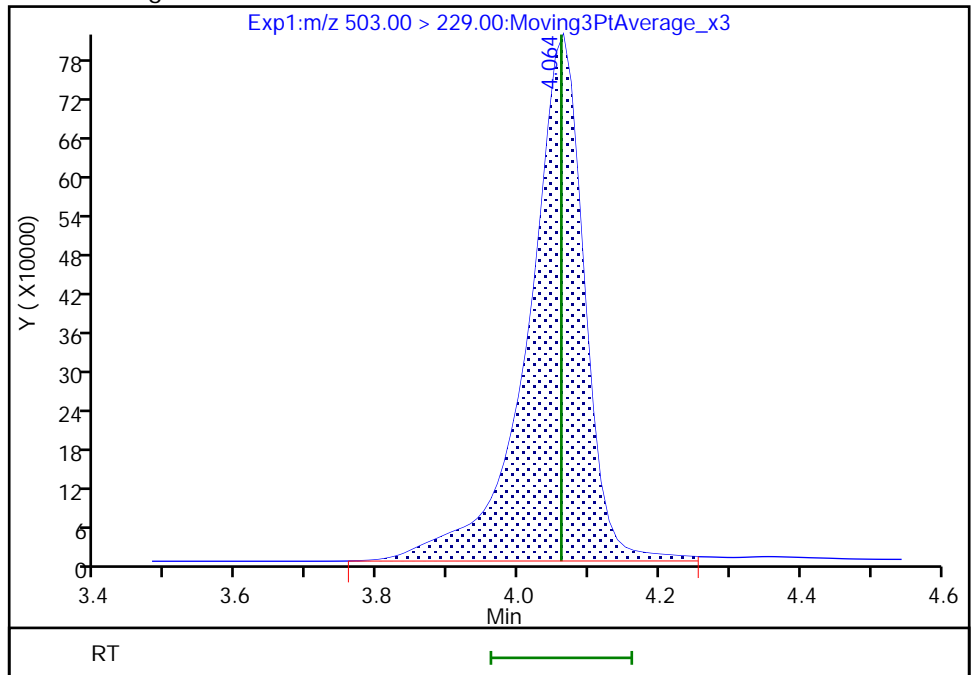
RT: 4.06
Area: 4573102
Amount: 8.975256
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 4544165
Amount: 8.412030
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:36
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

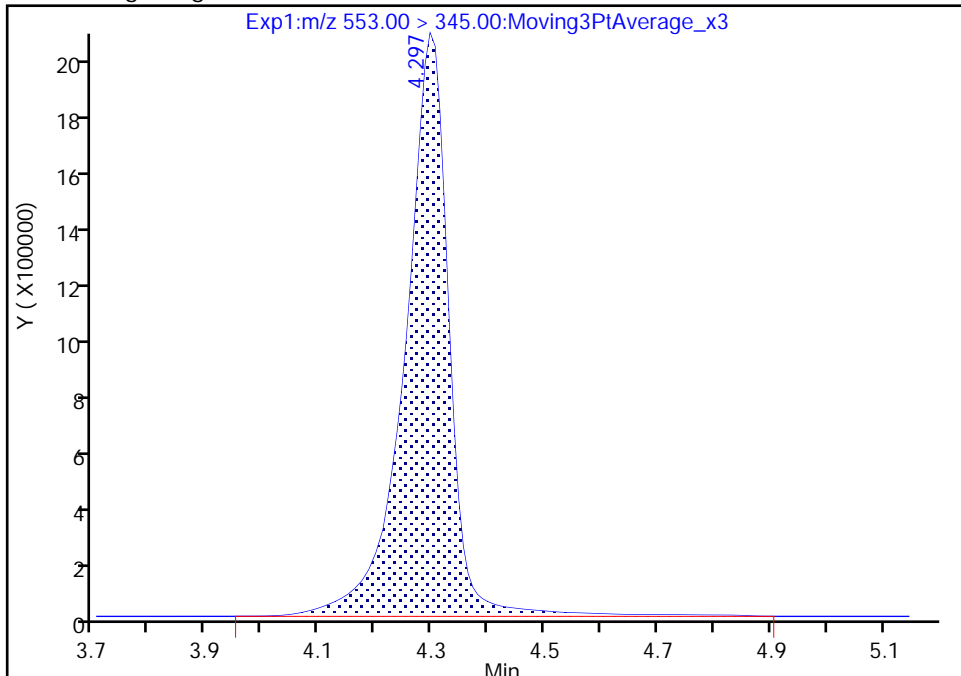
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

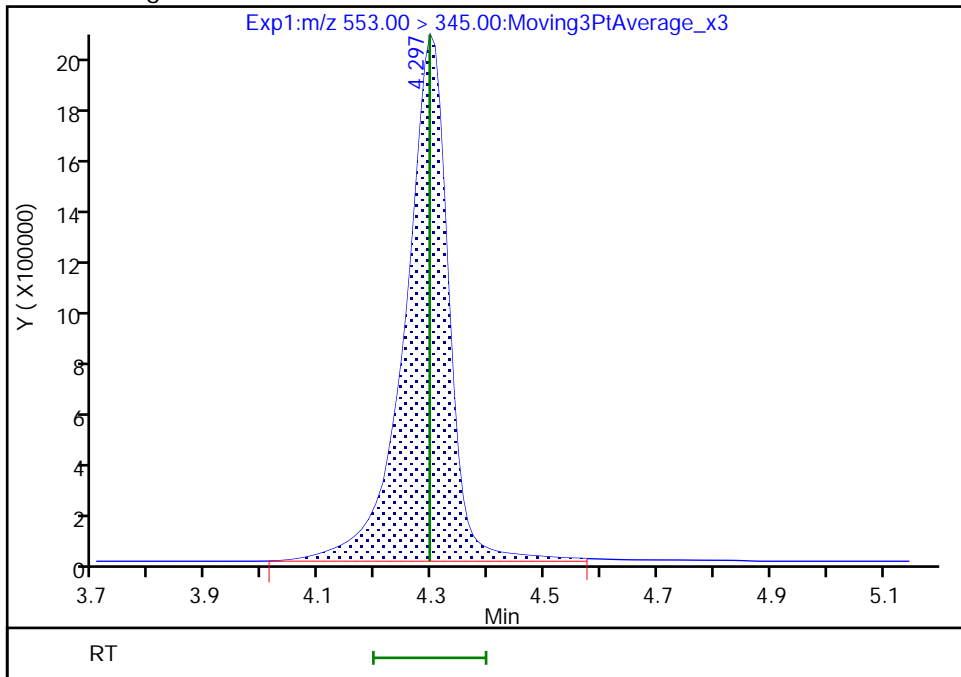
RT: 4.30
Area: 11119401
Amount: 31.102452
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 11020475
Amount: 31.179246
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

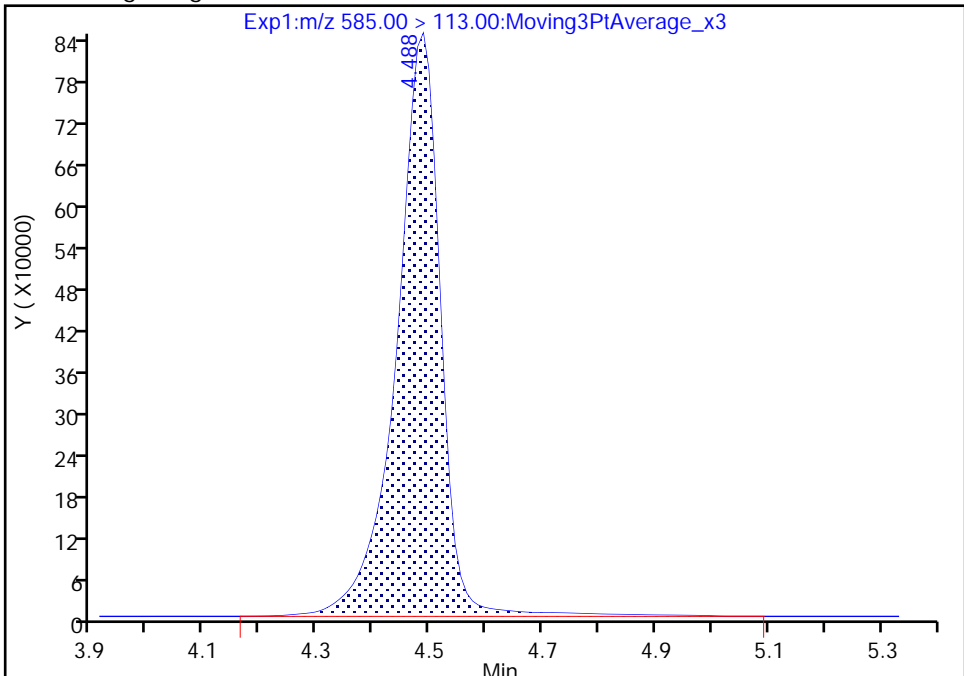
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

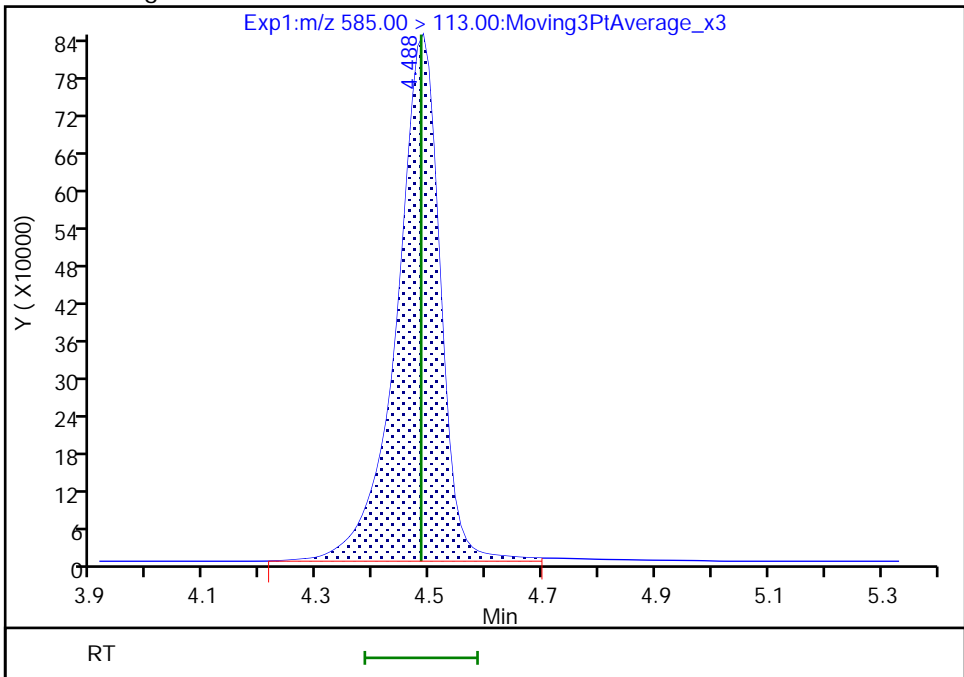
RT: 4.49
Area: 4561734
Amount: 5.490396
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 4510215
Amount: 5.827718
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:02:56
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

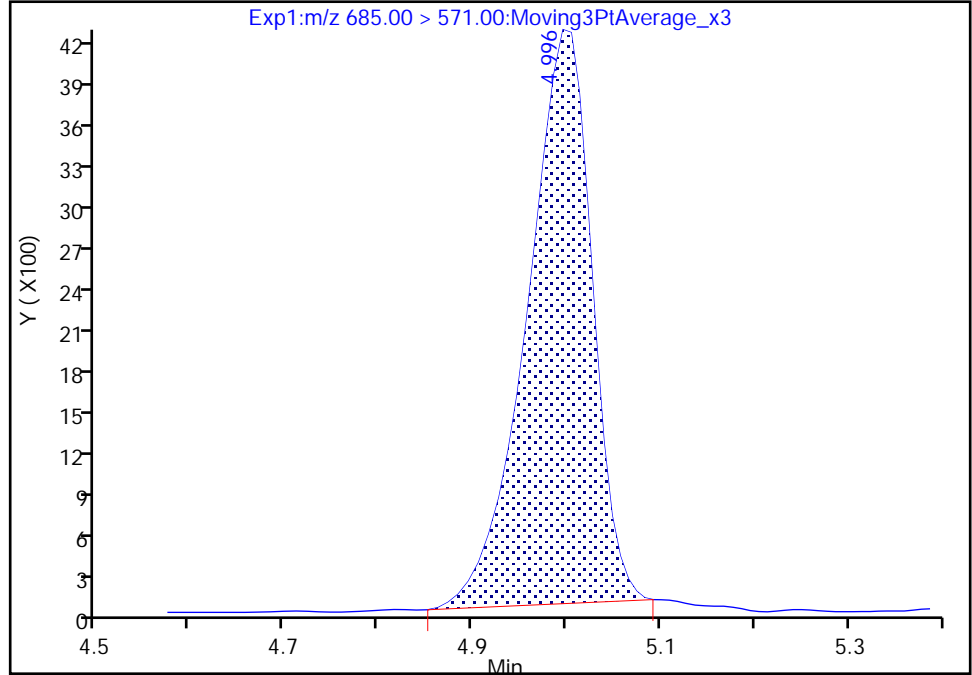
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-07.d
Injection Date: 01-Jun-2022 13:04:16 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

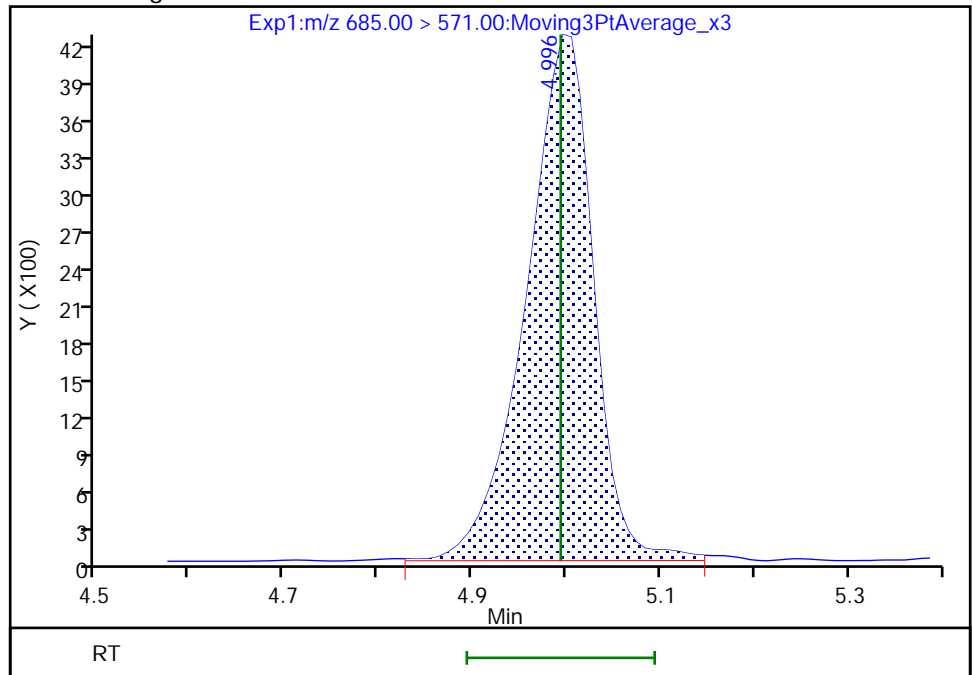
RT: 5.00
Area: 20033
Amount: 1.336776
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 21014
Amount: 1.332637
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 01-Jun-2022 13:16:50 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:54 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:04:24

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									
503.00 > 229.00	4.059	4.061	-0.002	0.908	9020531	17.7	99.1	9605	
2 BFS_A3B									
519.00 > 113.00	4.135	4.138	-0.003	0.926	10427670	19.4	97.6	196	
3 BFS_B3									M
553.00 > 345.00	4.295	4.296	-0.001	0.961	20537472	62.1	98.0	1154	M
4 BFS_A2B2									M
569.00 > 229.00	4.395	4.397	-0.002	0.984	38460675	138.7	99.9	825	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.468	4.468	0.0	0.880	731839	5.04	101	2154	
5 BFS_A4B									M
585.00 > 113.00	4.487	4.484	0.003	1.004	8315704	11.4	103	611	M
7 BFS_AB3									
619.00 > 229.00	4.657	4.655	0.002	1.042	37324836	142.5	95.7	260810	
8 BFS_A3B2									M
635.00 > 113.00	4.759	4.758	0.001	1.065	13059911	27.1	103	986	M
9 BFS_B4									
669.00 > 461.00	4.885	4.888	-0.003	1.093	5433932	36.2	105	1991	
10 BFS_A2B3									M
685.00 > 571.00	4.997	4.994	0.003	1.118	36499	2.45	93.4	438	M
* 11 13C2 PFOA									
415.00 > 370.00	5.075	5.074	0.001		4482375	5.00		2762	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS8_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d

Injection Date: 01-Jun-2022 13:16:50

Instrument ID: 30733

Lims ID: IC CAL 8

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

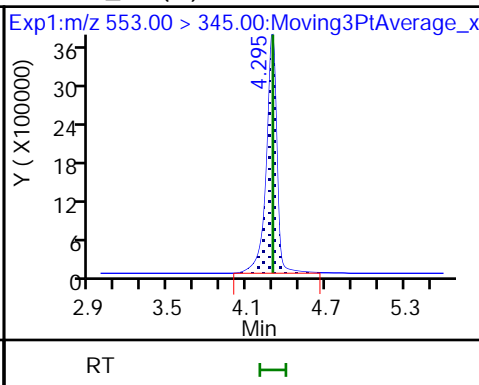
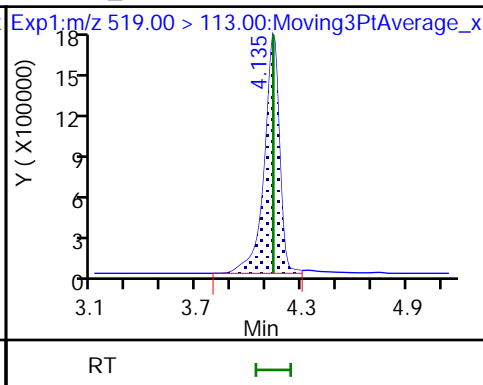
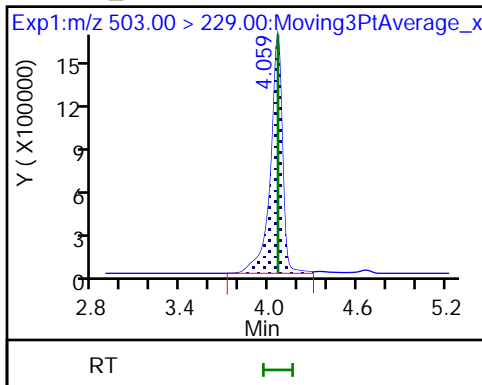
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

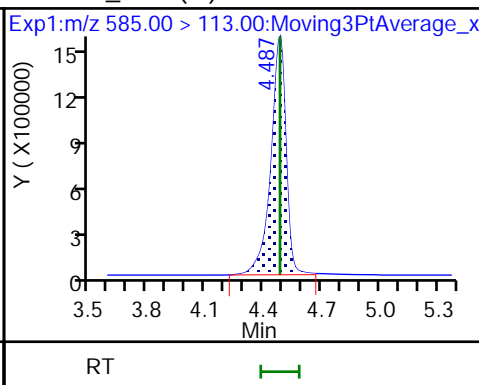
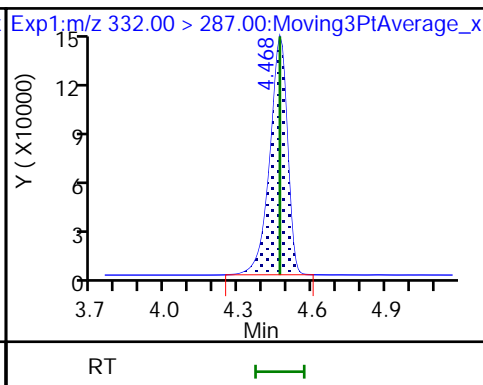
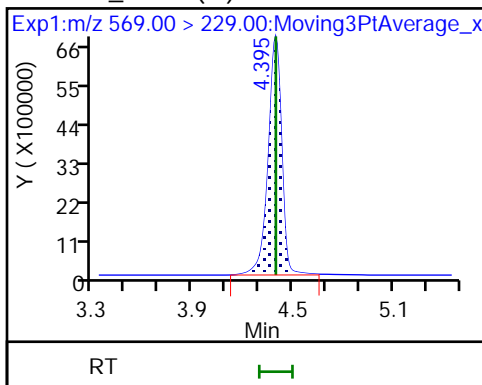
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

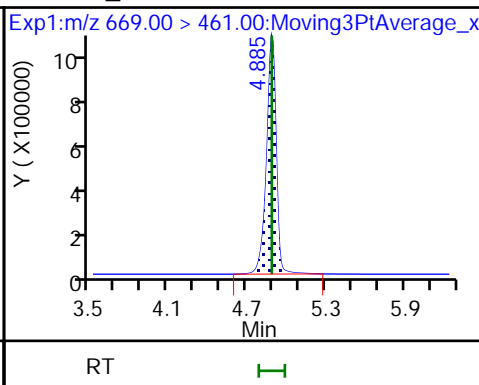
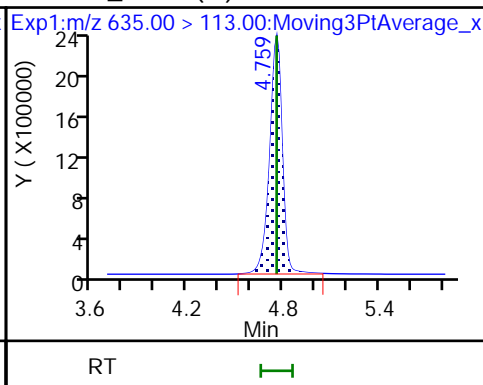
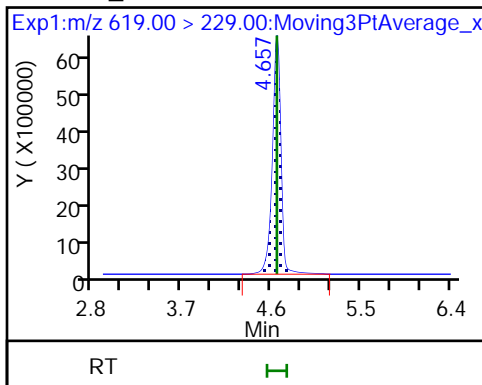
5 BFS_A4B (M)



7 BFS_AB3

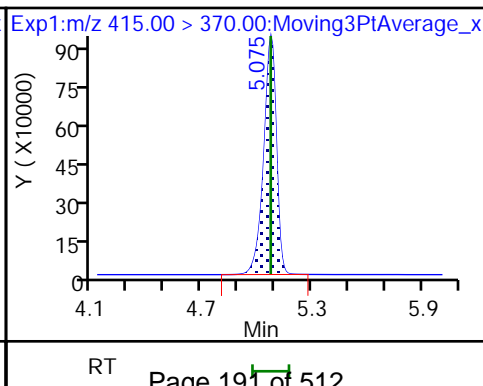
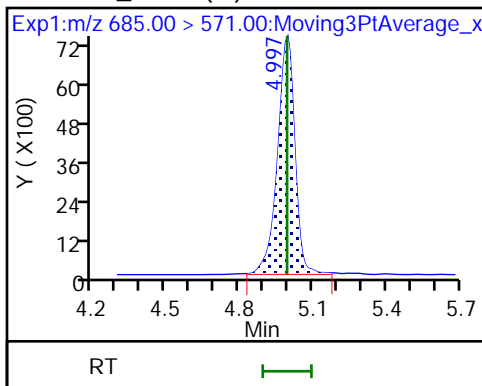
8 BFS_A3B2 (M)

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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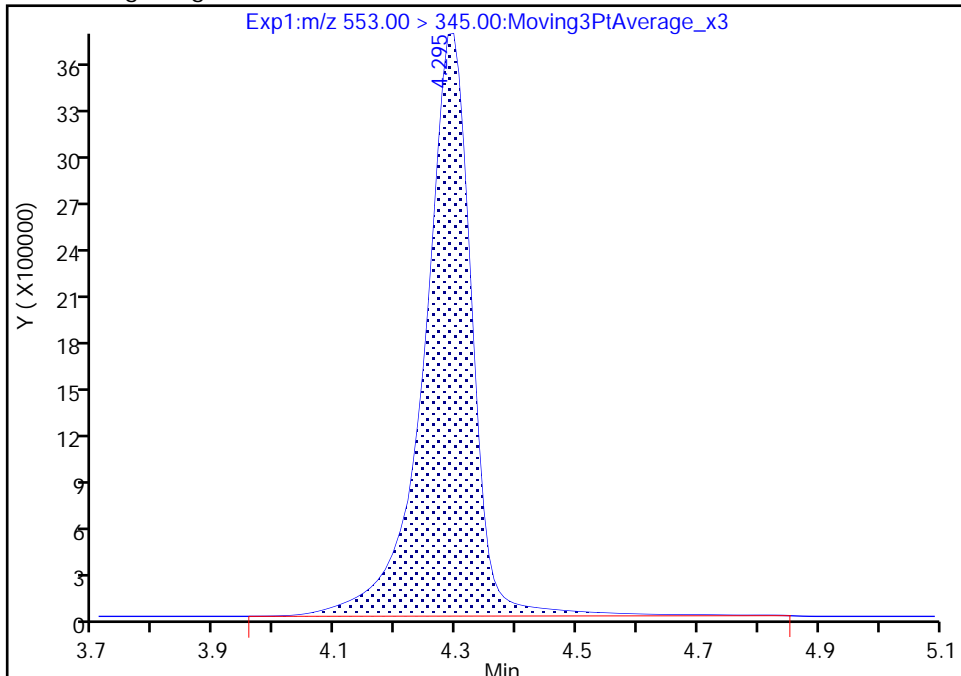
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

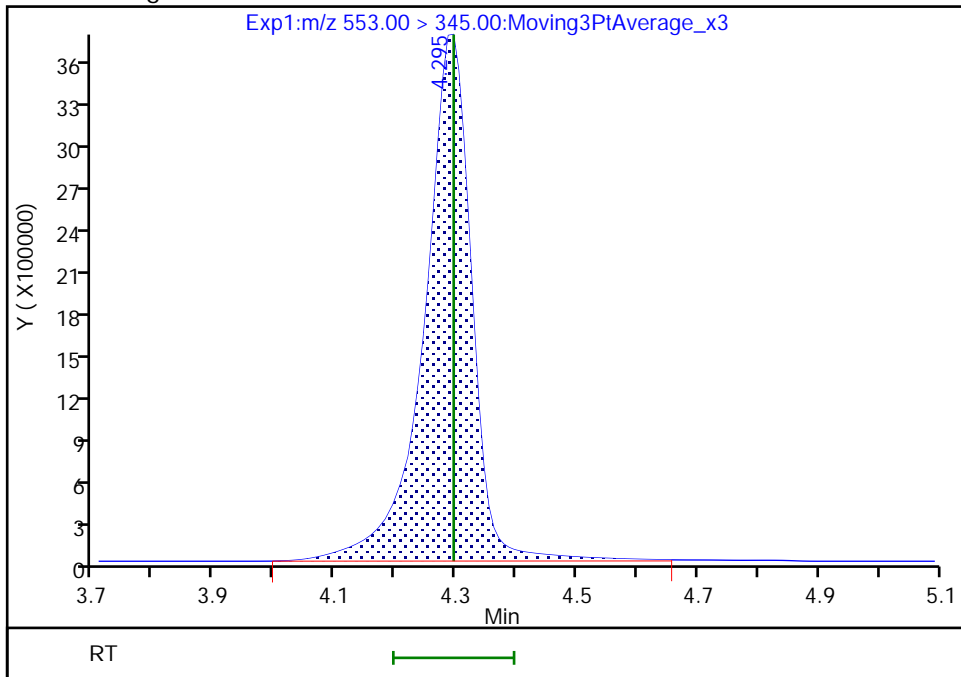
RT: 4.30
Area: 20560685
Amount: 62.255852
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 20537472
Amount: 62.125003
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:33
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

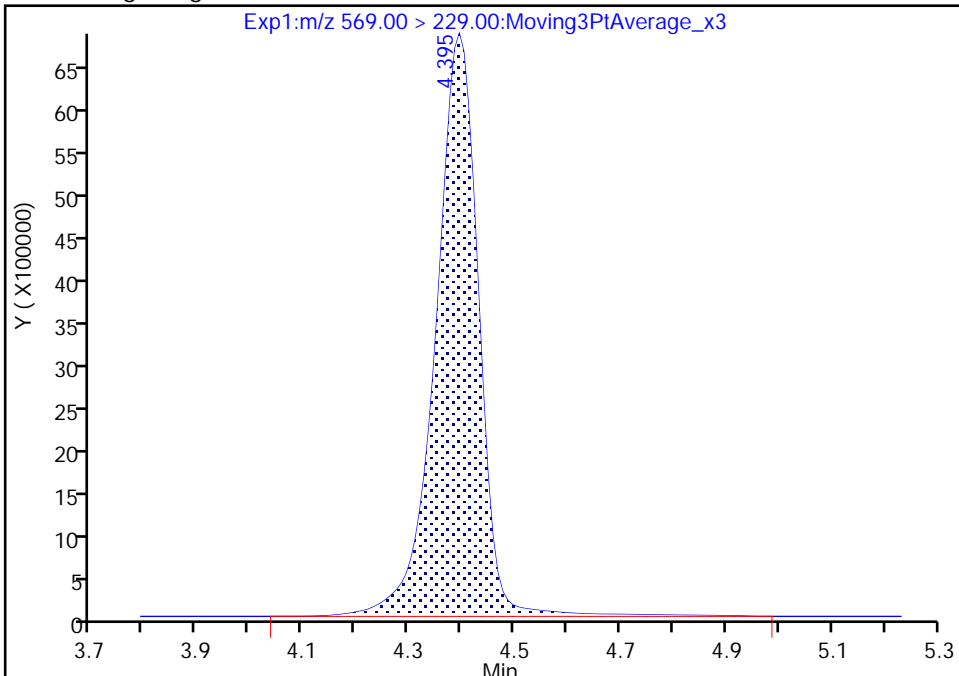
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

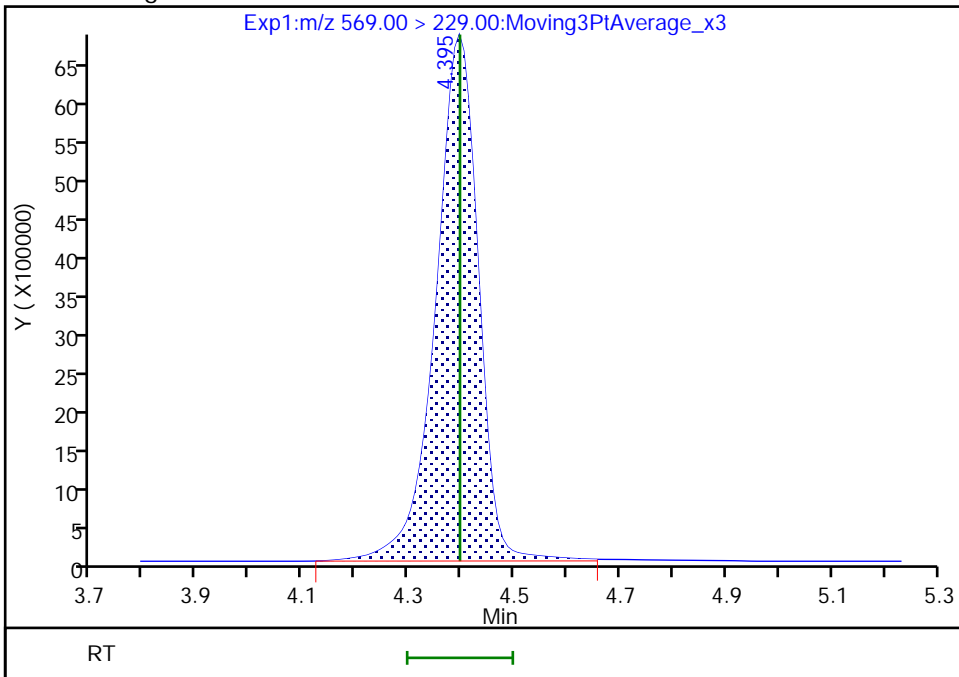
RT: 4.40
Area: 38816010
Amount: 135.3863
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 38460675
Amount: 138.7399
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:38
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

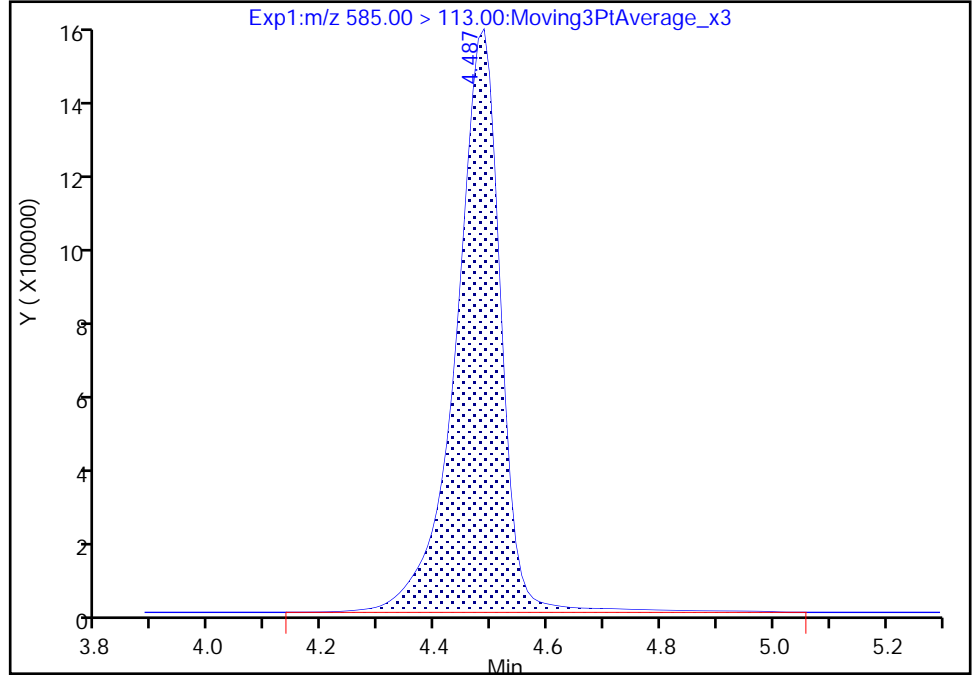
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

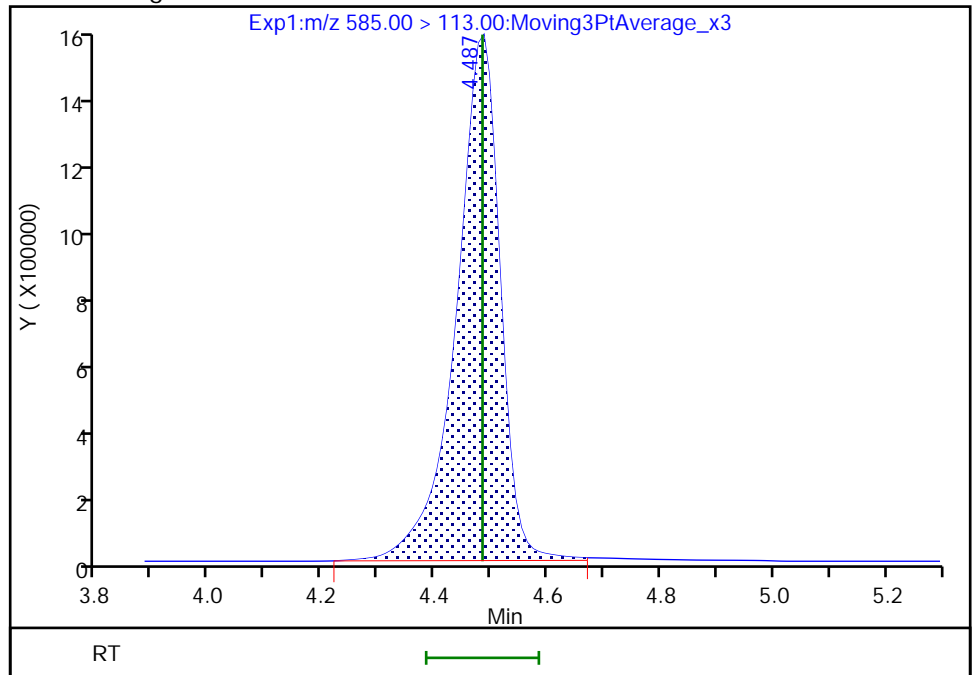
RT: 4.49
Area: 8465497
Amount: 10.921275
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 8315704
Amount: 11.358028
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:42
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

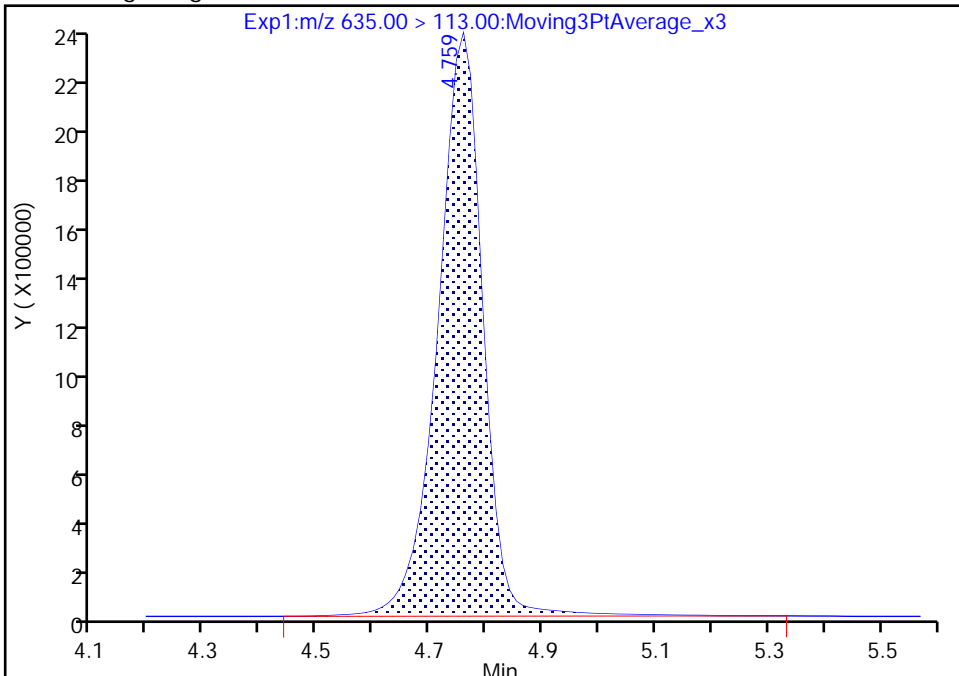
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

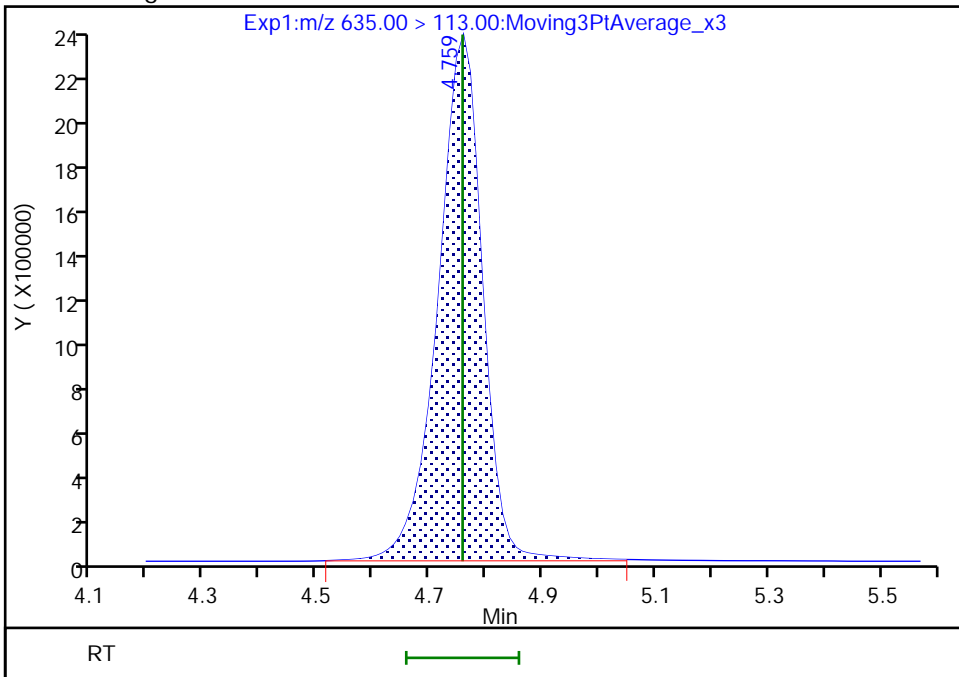
RT: 4.76
Area: 13132084
Amount: 26.119313
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 13059911
Amount: 27.101608
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:03:51
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

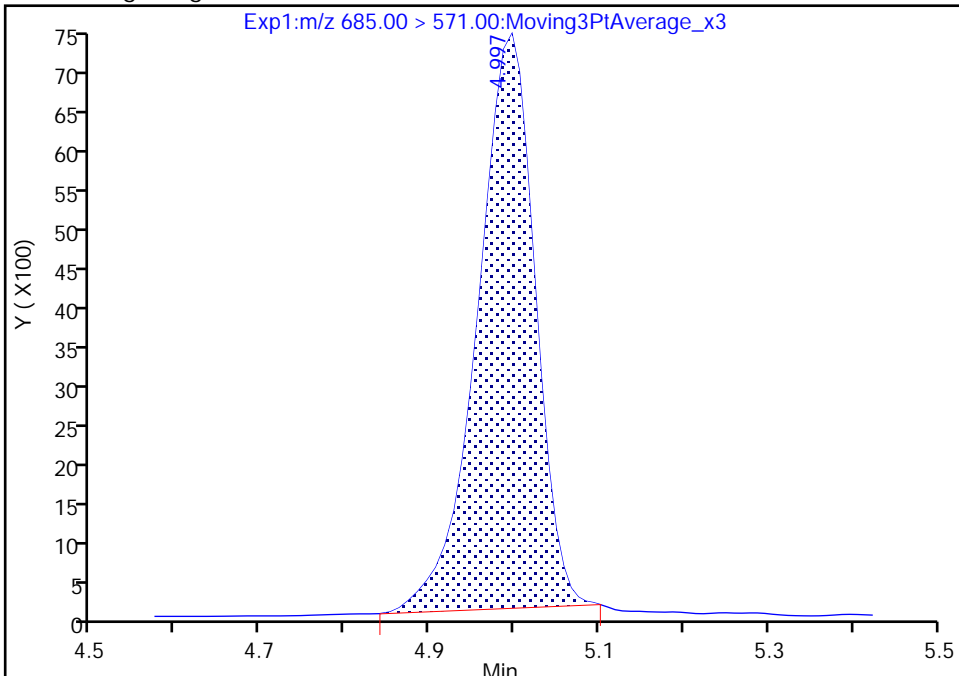
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-08.d
Injection Date: 01-Jun-2022 13:16:50 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

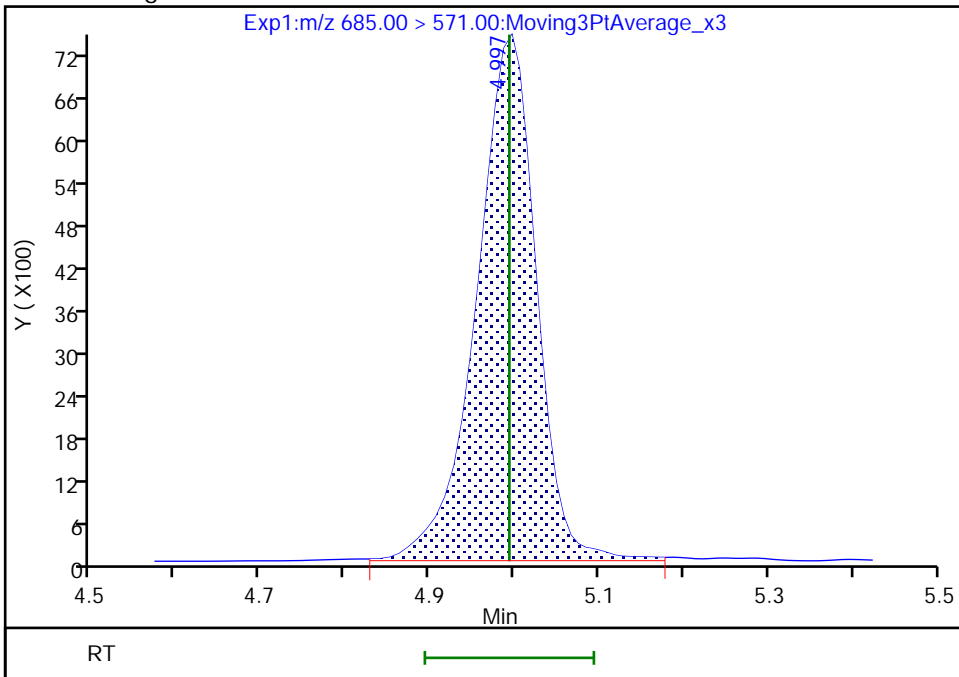
RT: 5.00
Area: 34860
Amount: 2.506315
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 36499
Amount: 2.446734
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:22
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 01-Jun-2022 13:29:27 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:55 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:05:08

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									
503.00 > 229.00	4.054	4.061	-0.007	0.907	16231123	37.0	104	9585	
2 BFS_A3B									
519.00 > 113.00	4.129	4.138	-0.009	0.924	18838535	40.9	103	252	
3 BFS_B3									M
553.00 > 345.00	4.289	4.296	-0.007	0.959	35984718	130.0	103	598	M
4 BFS_A2B2									M
569.00 > 229.00	4.389	4.397	-0.008	0.982	63365922	286.4	103	929	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.470	4.468	0.002	0.881	628418	4.57	91.5	1606	
5 BFS_A4B									M
585.00 > 113.00	4.480	4.484	-0.004	1.002	14922849	23.7	108	678	M
7 BFS_AB3									
619.00 > 229.00	4.648	4.655	-0.007	1.040	64603397	303.9	102	510355	
8 BFS_A3B2									
635.00 > 113.00	4.749	4.758	-0.009	1.062	22534422	54.5	104	2462	
9 BFS_B4									
669.00 > 461.00	4.885	4.888	-0.003	1.093	9268536	71.9	104	3403	
10 BFS_A2B3									M
685.00 > 571.00	4.997	4.994	0.003	1.118	69744	5.44	104	675	M
* 11 13C2 PFOA									
415.00 > 370.00	5.075	5.074	0.001		4245679	5.00		2554	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS9_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d

Injection Date: 01-Jun-2022 13:29:27

Instrument ID: 30733

Lims ID: IC CAL 9

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

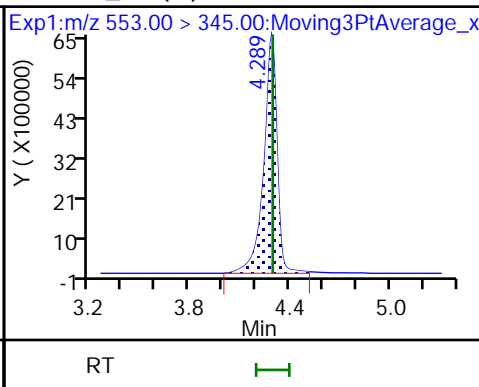
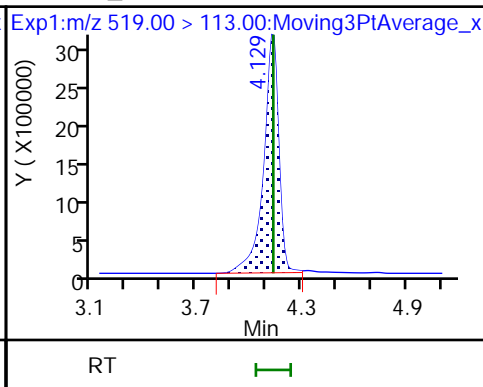
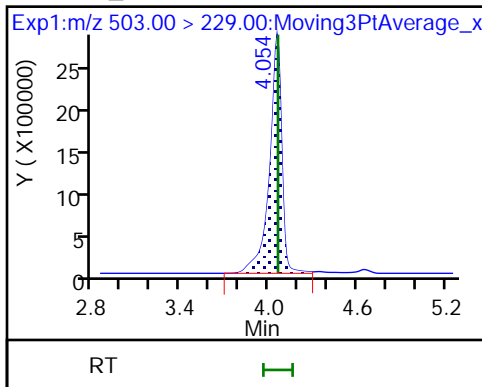
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

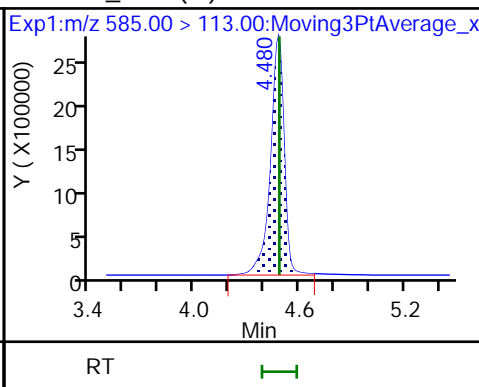
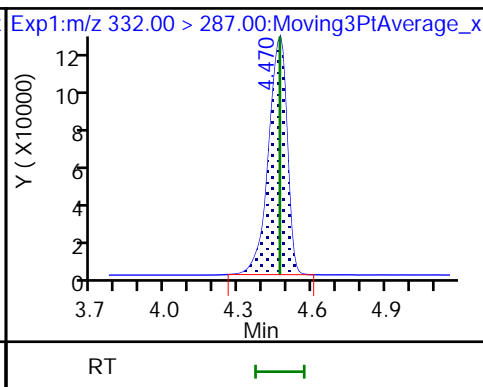
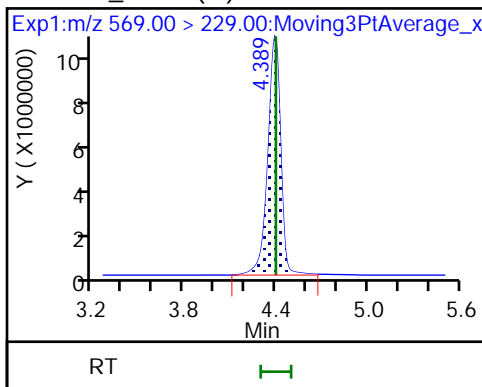
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

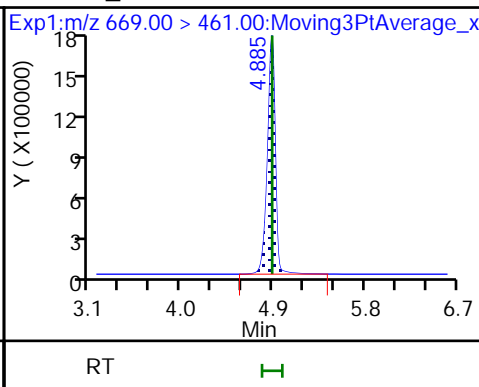
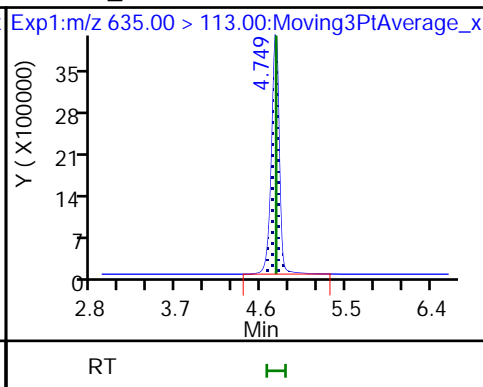
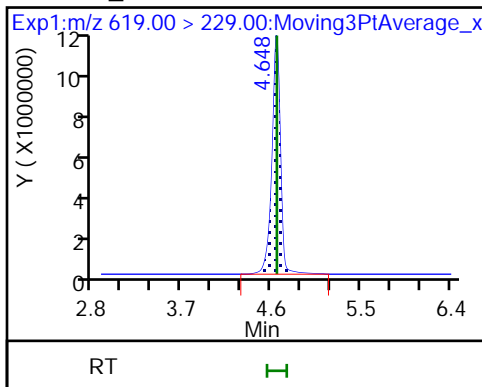
5 BFS_A4B (M)



7 BFS_AB3

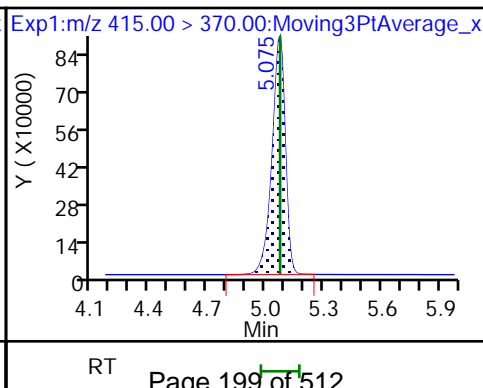
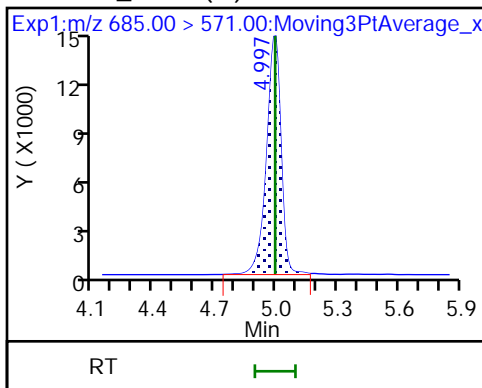
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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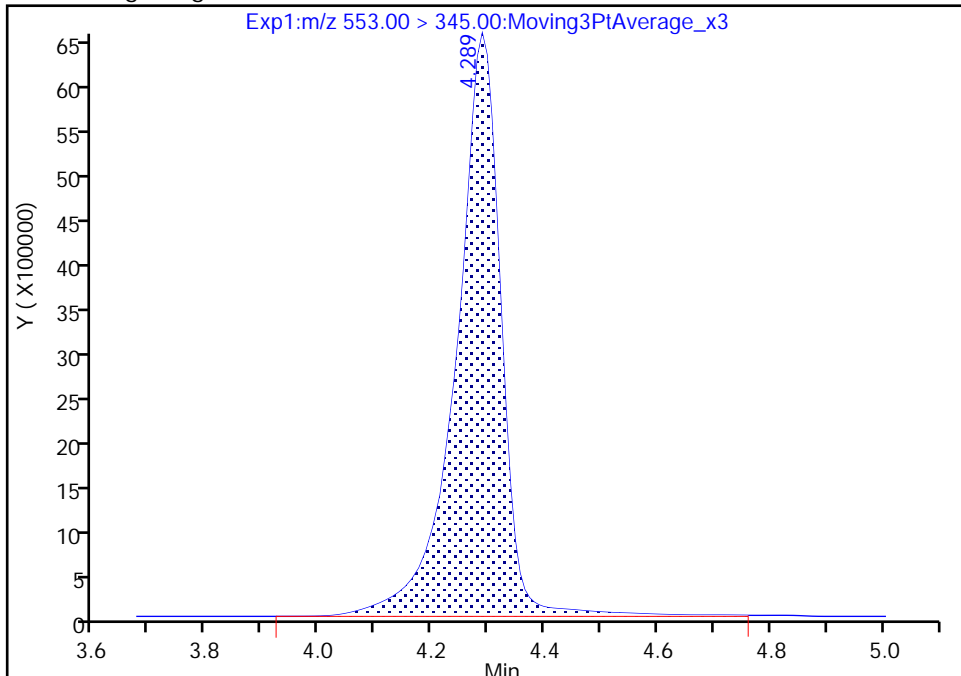
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

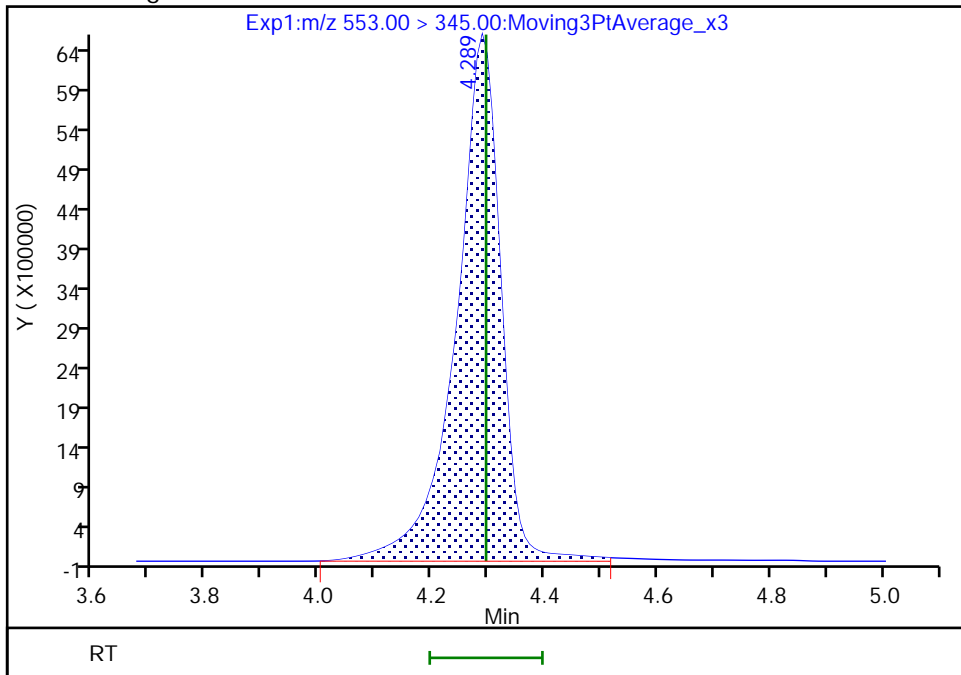
RT: 4.29
Area: 36302055
Amount: 127.4175
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 35984718
Amount: 130.0389
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:45
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

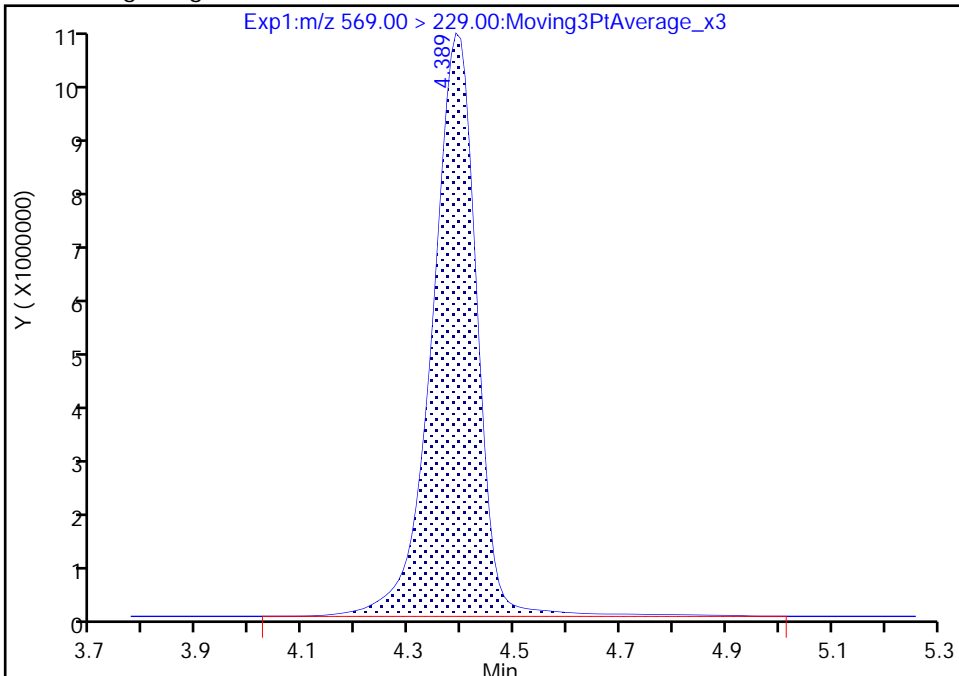
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

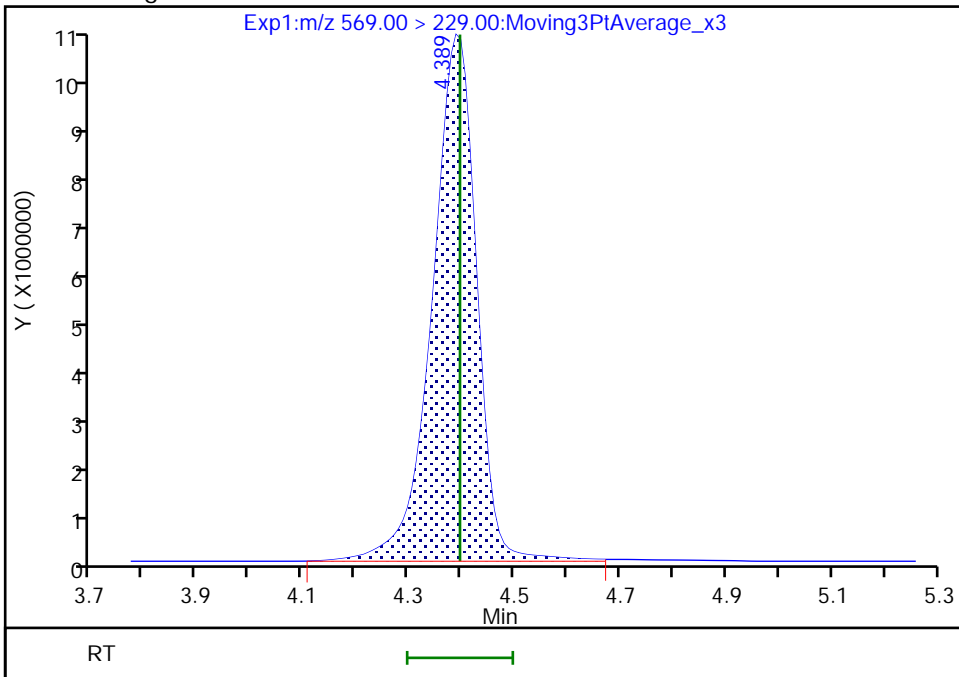
RT: 4.39
Area: 63778847
Amount: 268.8393
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 63365922
Amount: 286.3650
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:50
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

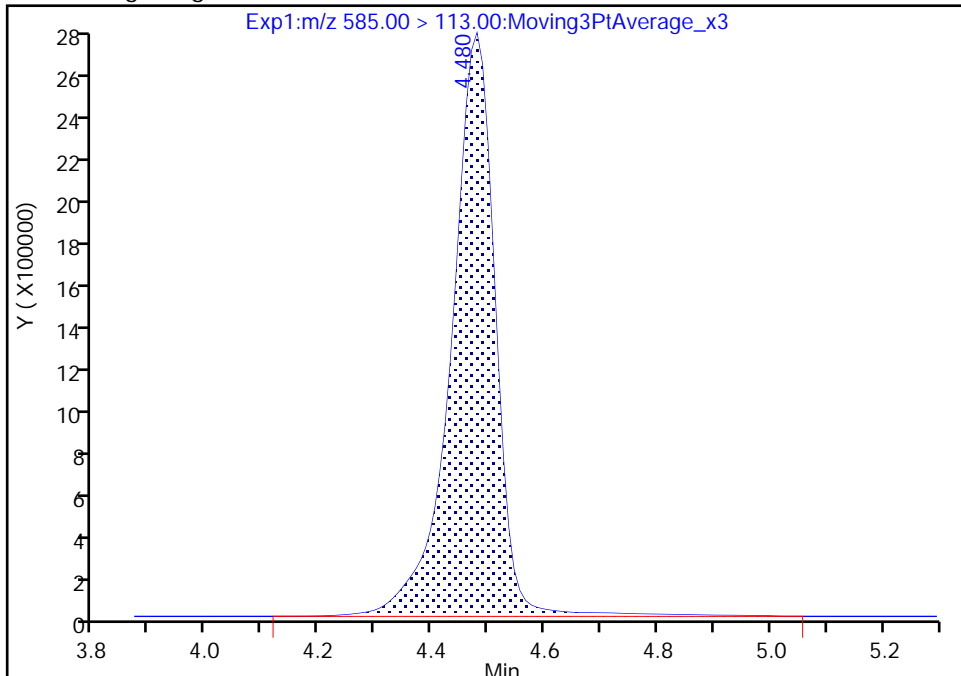
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

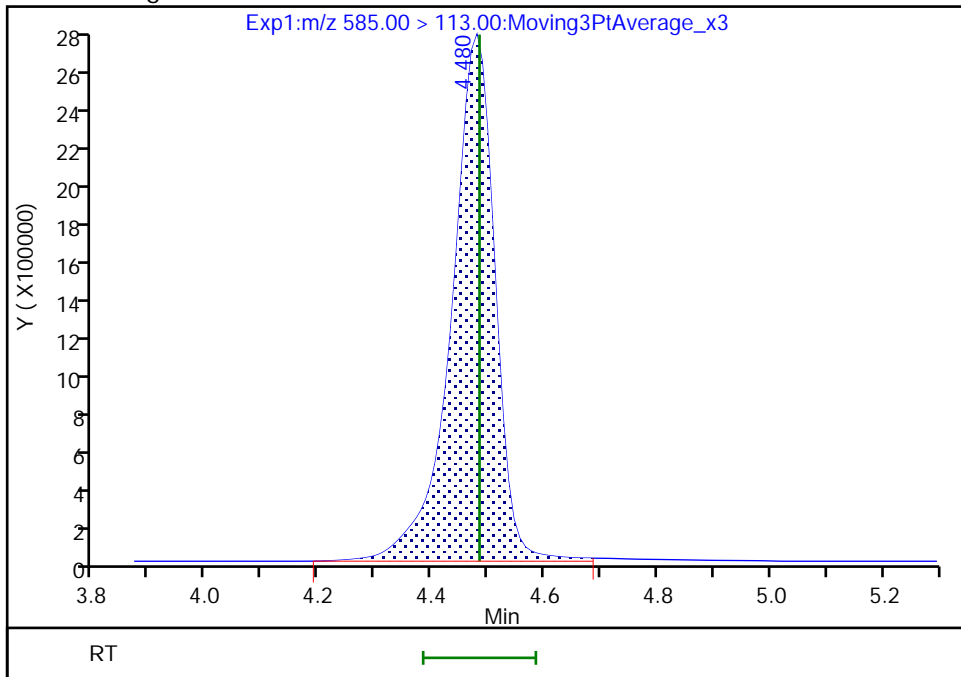
RT: 4.48
Area: 15084823
Amount: 22.421533
Amount Units: ng/ml

Processing Integration Results



RT: 4.48
Area: 14922849
Amount: 23.736822
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:04:55
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

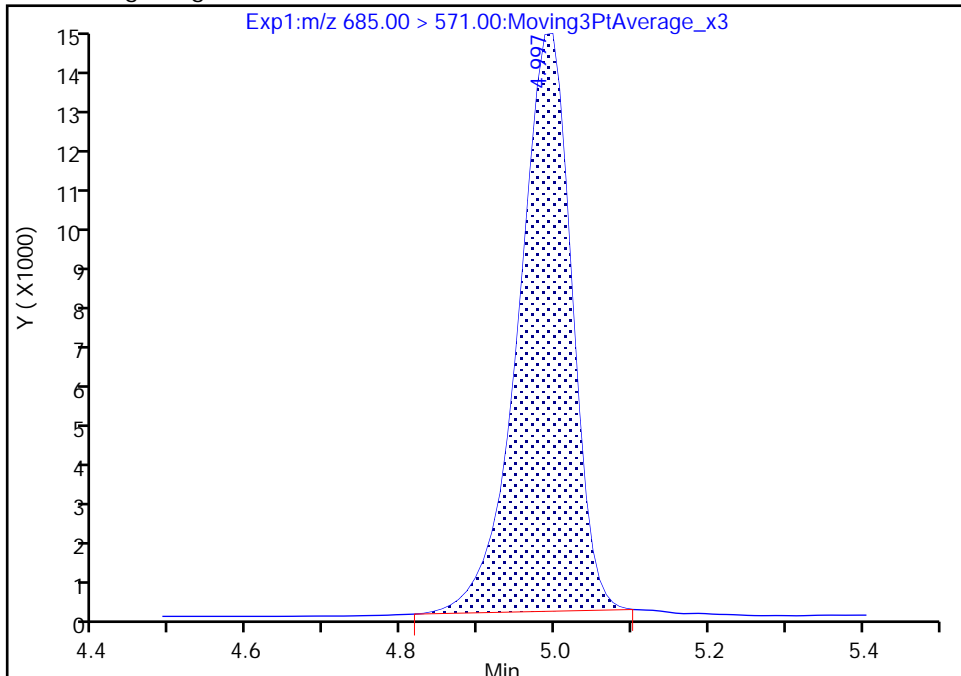
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-09.d
Injection Date: 01-Jun-2022 13:29:27 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

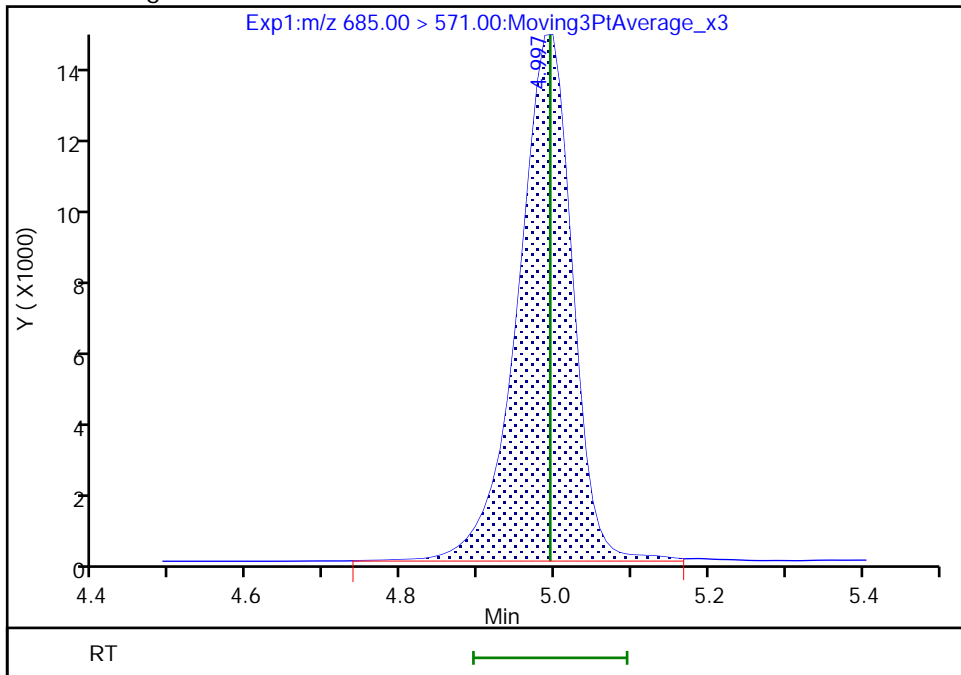
RT: 5.00
Area: 67325
Amount: 5.367389
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 69744
Amount: 5.444771
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 01-Jun-2022 13:42:07 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 01-Jun-2022 14:05:35

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.066	4.061	0.005	0.907	41799671	88.9	99.8	13205
2 BFS_A3B	519.00 > 113.00	4.154	4.138	0.016	0.927	49360673	100.0	100	337
3 BFS_B3	553.00 > 345.00	4.307	4.296	0.011	0.961	86742054	314.4	99.2	380 M
4 BFS_A2B2	569.00 > 229.00	4.407	4.397	0.010	0.984	127841132	671.8	96.8	690
D 6 13C3 HFPO-DA	332.00 > 287.00	4.481	4.468	0.013	0.881	673694	4.53	90.5	1979
5 BFS_A4B	585.00 > 113.00	4.490	4.484	0.006	1.002	35203991	52.2	95.0	782 M
7 BFS_AB3	619.00 > 229.00	4.660	4.655	0.005	1.040	143461865	751.3	101	516710
8 BFS_A3B2	635.00 > 113.00	4.772	4.758	0.014	1.065	56276374	126.9	96.9	491406
9 BFS_B4	669.00 > 461.00	4.897	4.888	0.009	1.093	23106837	167.3	96.8	4849
10 BFS_A2B3	685.00 > 571.00	5.006	4.994	0.012	1.117	180193	13.1	100	614
* 11 13C2 PFOA	415.00 > 370.00	5.085	5.074	0.011		4598363	5.00		3020

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Injection Date: 01-Jun-2022 13:42:07

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

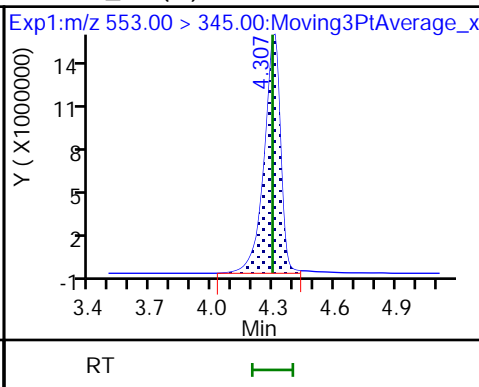
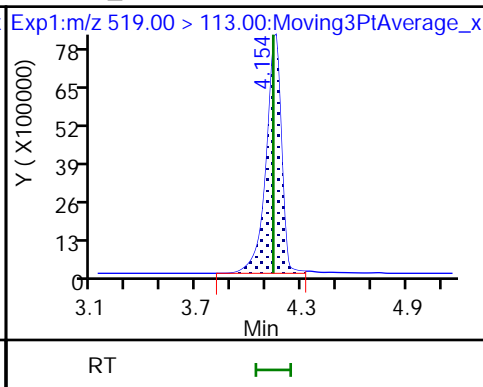
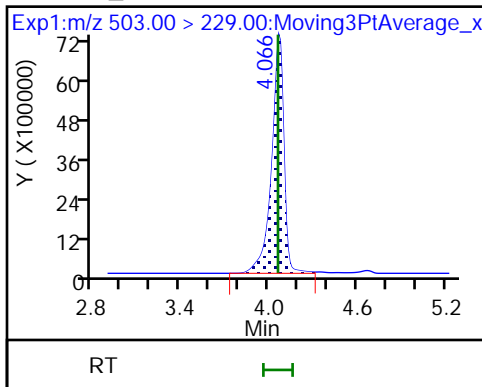
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

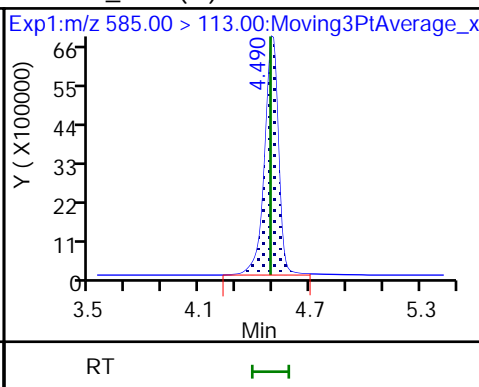
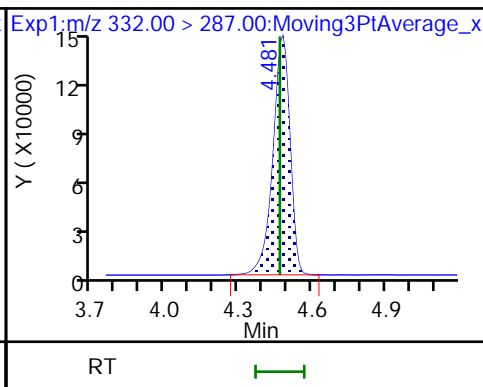
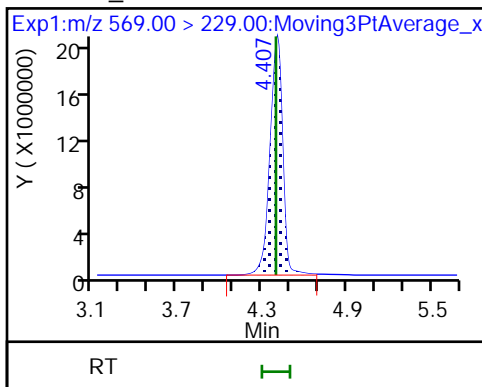
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

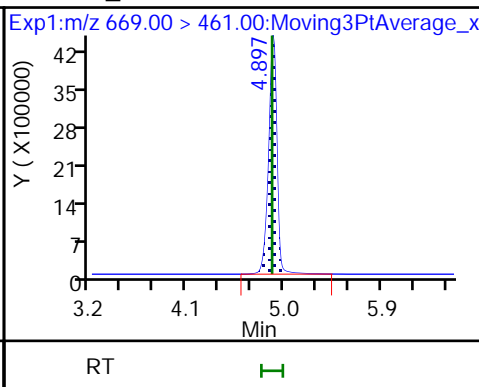
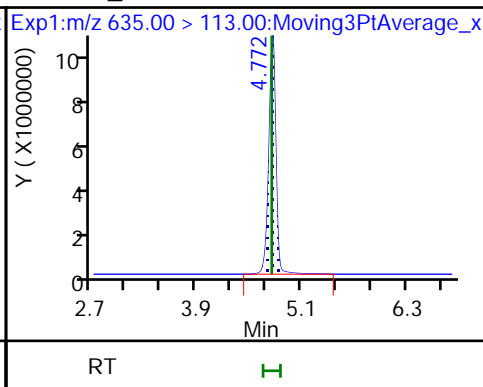
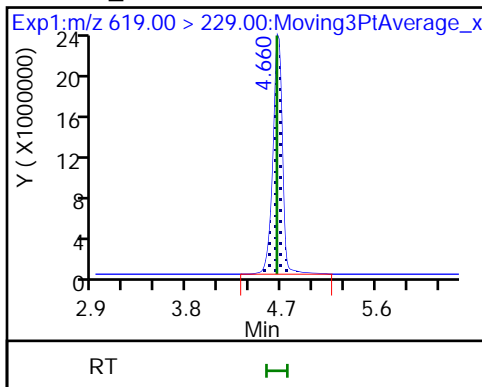
5 BFS_A4B (M)



7 BFS_AB3

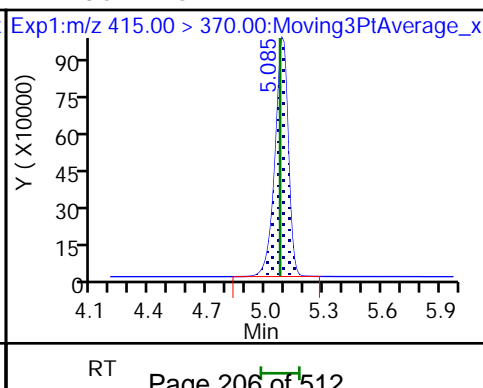
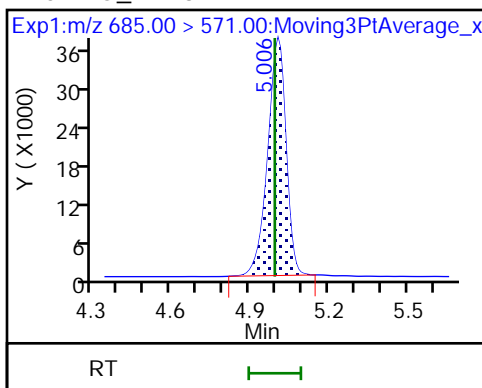
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



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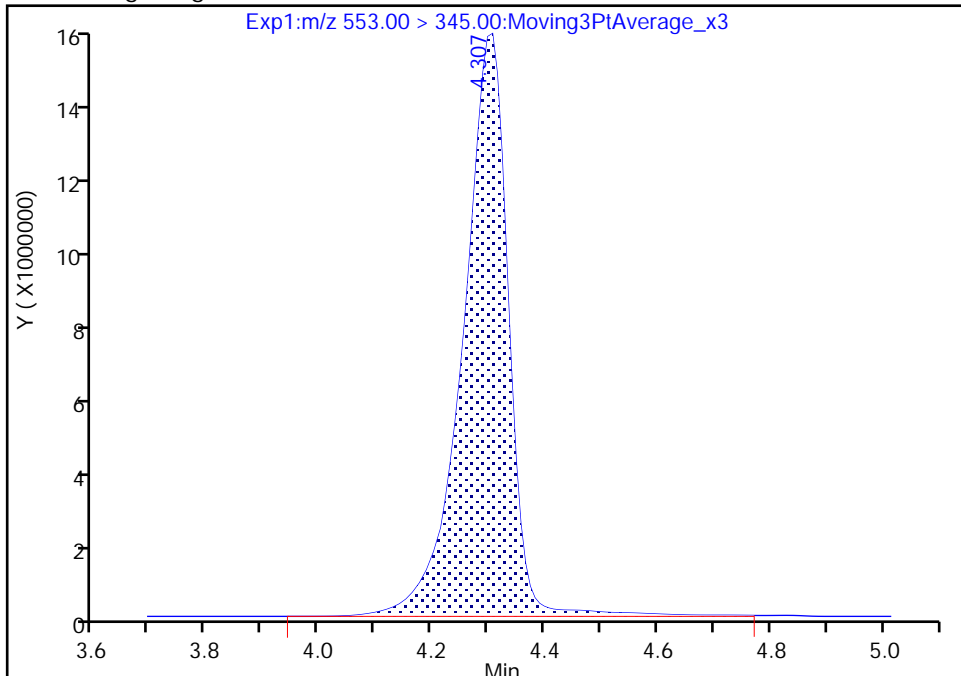
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
Injection Date: 01-Jun-2022 13:42:07 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

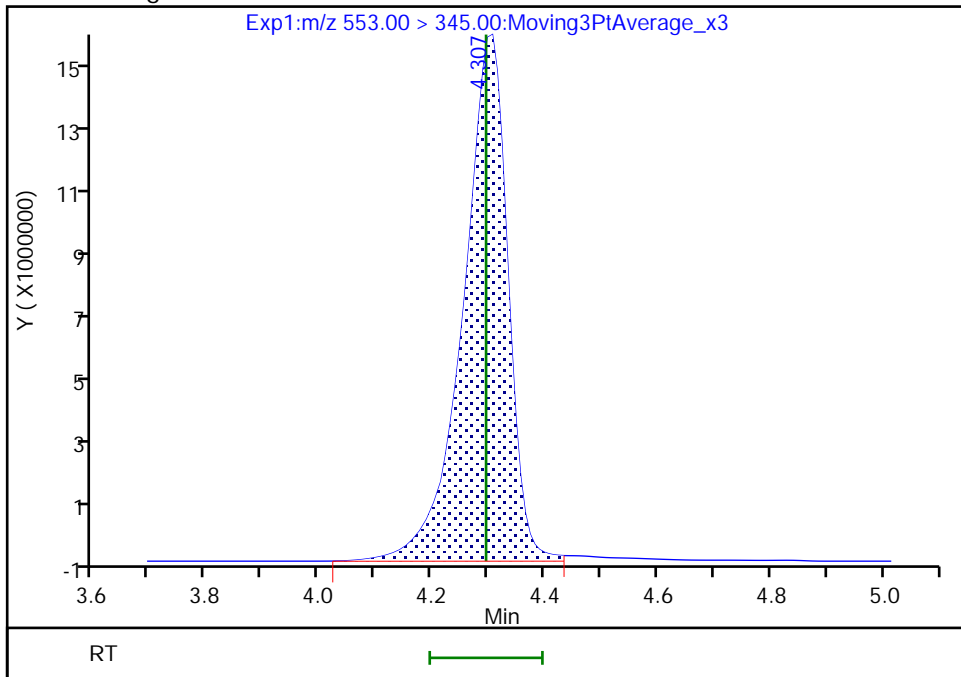
RT: 4.31
Area: 88205232
Amount: 304.5405
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 86742054
Amount: 314.4340
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:05:17
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

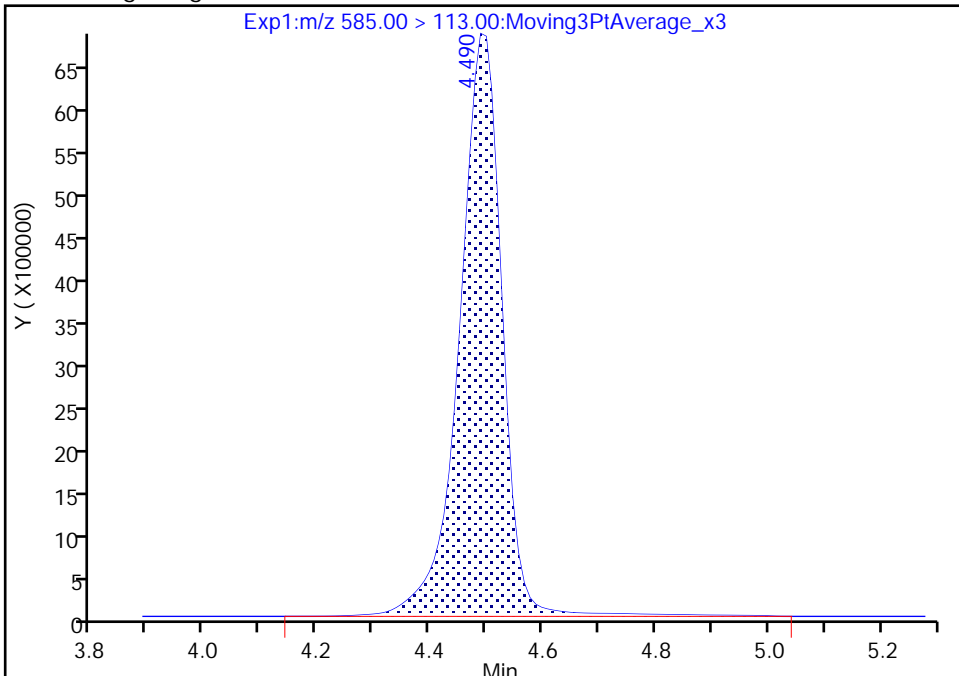
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
Injection Date: 01-Jun-2022 13:42:07 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

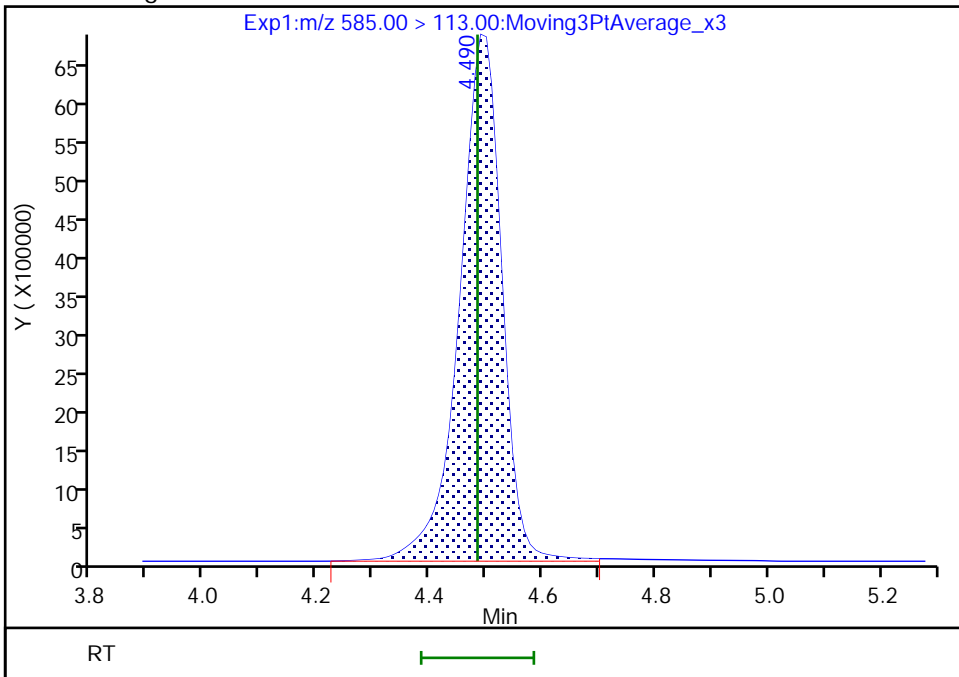
RT: 4.49
Area: 35556681
Amount: 52.477229
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 35203991
Amount: 52.233445
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 14:05:26
Audit Action: Manually Integrated

Calibration

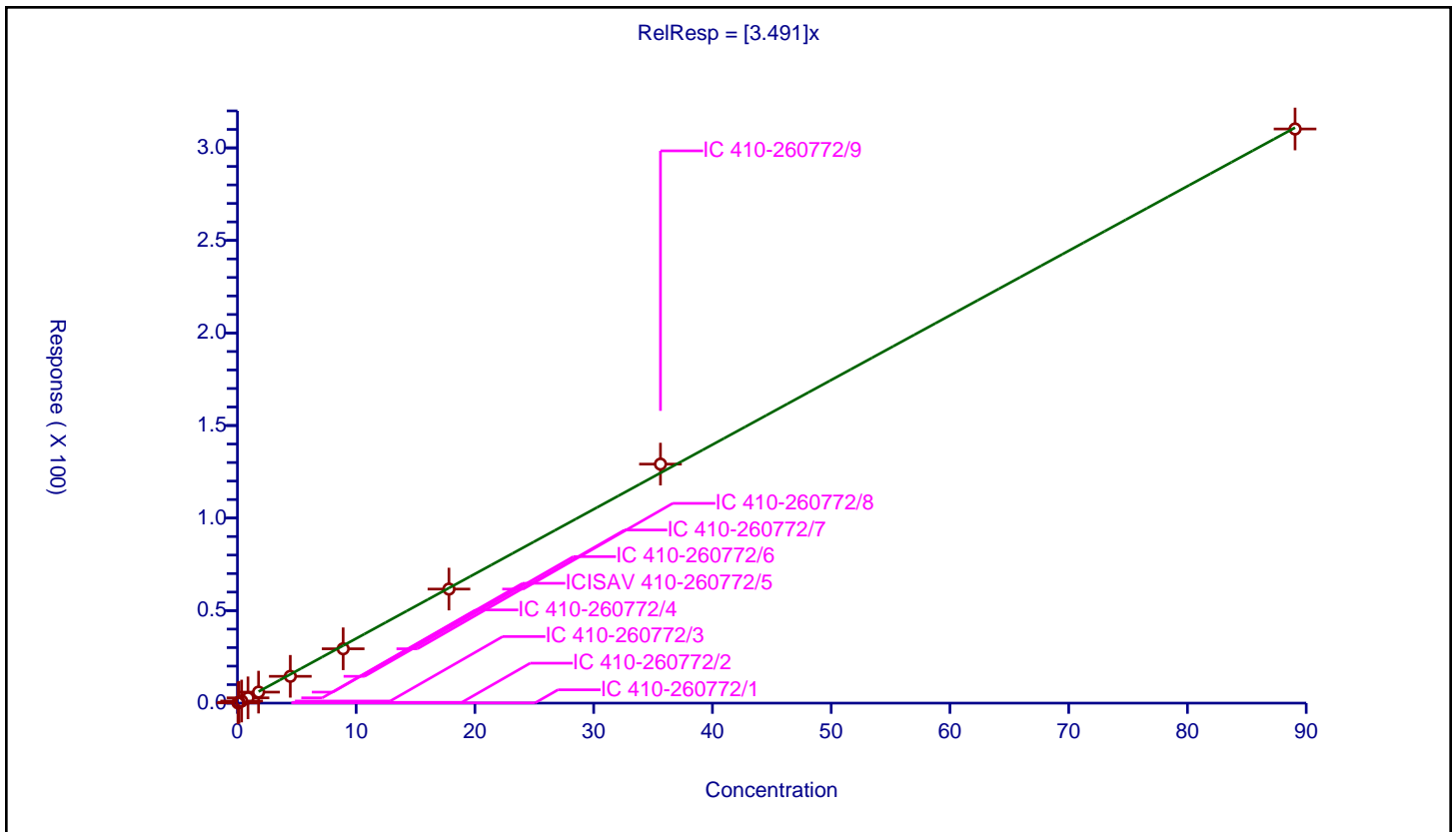
/ BFS_AB2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.491

Error Coefficients	
Standard Error:	15300000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.044531	0.131872	5.0	782424.0	2.961358	Y
2	IC 410-260772/2	0.133593	0.437399	5.0	756152.0	3.274115	Y
3	IC 410-260772/3	0.356248	1.134909	5.0	753532.0	3.185726	Y
4	IC 410-260772/4	0.89062	2.852748	5.0	749330.0	3.203104	Y
5	ICISAV 410-260772/5	1.78124	5.956113	5.0	710727.0	3.343801	Y
6	IC 410-260772/6	4.4531	14.483129	5.0	702341.0	3.25237	Y
7	IC 410-260772/7	8.9062	29.370136	5.0	773603.0	3.297718	Y
8	IC 410-260772/8	17.8124	61.629204	5.0	731839.0	3.459905	Y
9	IC 410-260772/9	35.6248	129.142728	5.0	628418.0	3.625079	Y
10	IC 410-260772/10	89.062	310.227425	5.0	673694.0	3.483275	Y



Calibration

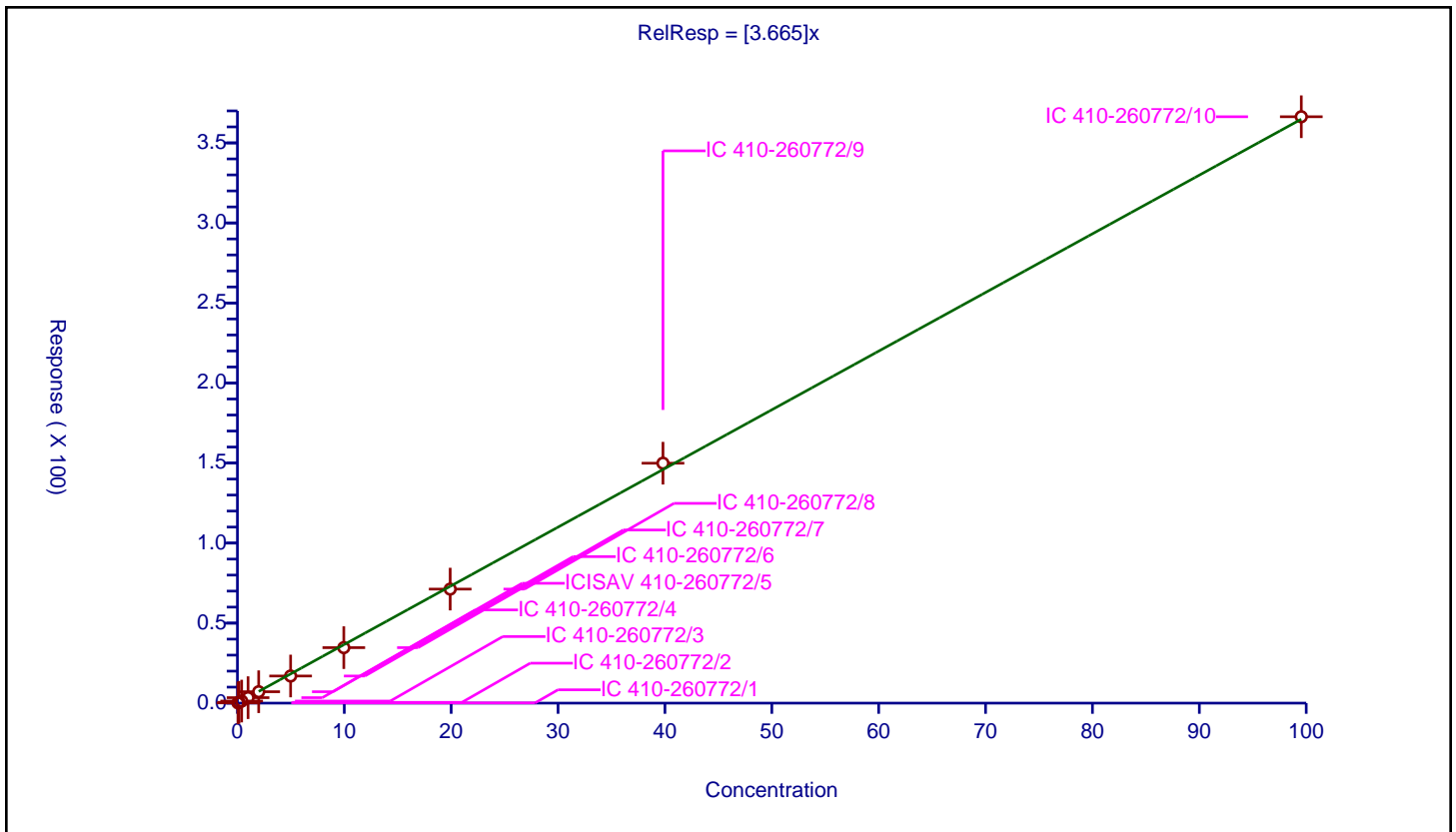
/ BFS_A3B

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.665

Error Coefficients	
Standard Error:	18100000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.04977	0.154788	5.0	782424.0	3.110086	Y
2	IC 410-260772/2	0.149309	0.492427	5.0	756152.0	3.298037	Y
3	IC 410-260772/3	0.398158	1.289229	5.0	753532.0	3.237982	Y
4	IC 410-260772/4	0.995395	3.42586	5.0	749330.0	3.44171	Y
5	ICISAV 410-260772/5	1.99079	7.128433	5.0	710727.0	3.580706	Y
6	IC 410-260772/6	4.976975	16.944953	5.0	702341.0	3.404669	Y
7	IC 410-260772/7	9.95395	34.6651	5.0	773603.0	3.482547	Y
8	IC 410-260772/8	19.9079	71.242924	5.0	731839.0	3.578626	Y
9	IC 410-260772/9	39.8158	149.888569	5.0	628418.0	3.76455	Y
10	IC 410-260772/10	99.5395	366.343421	5.0	673694.0	3.680382	Y



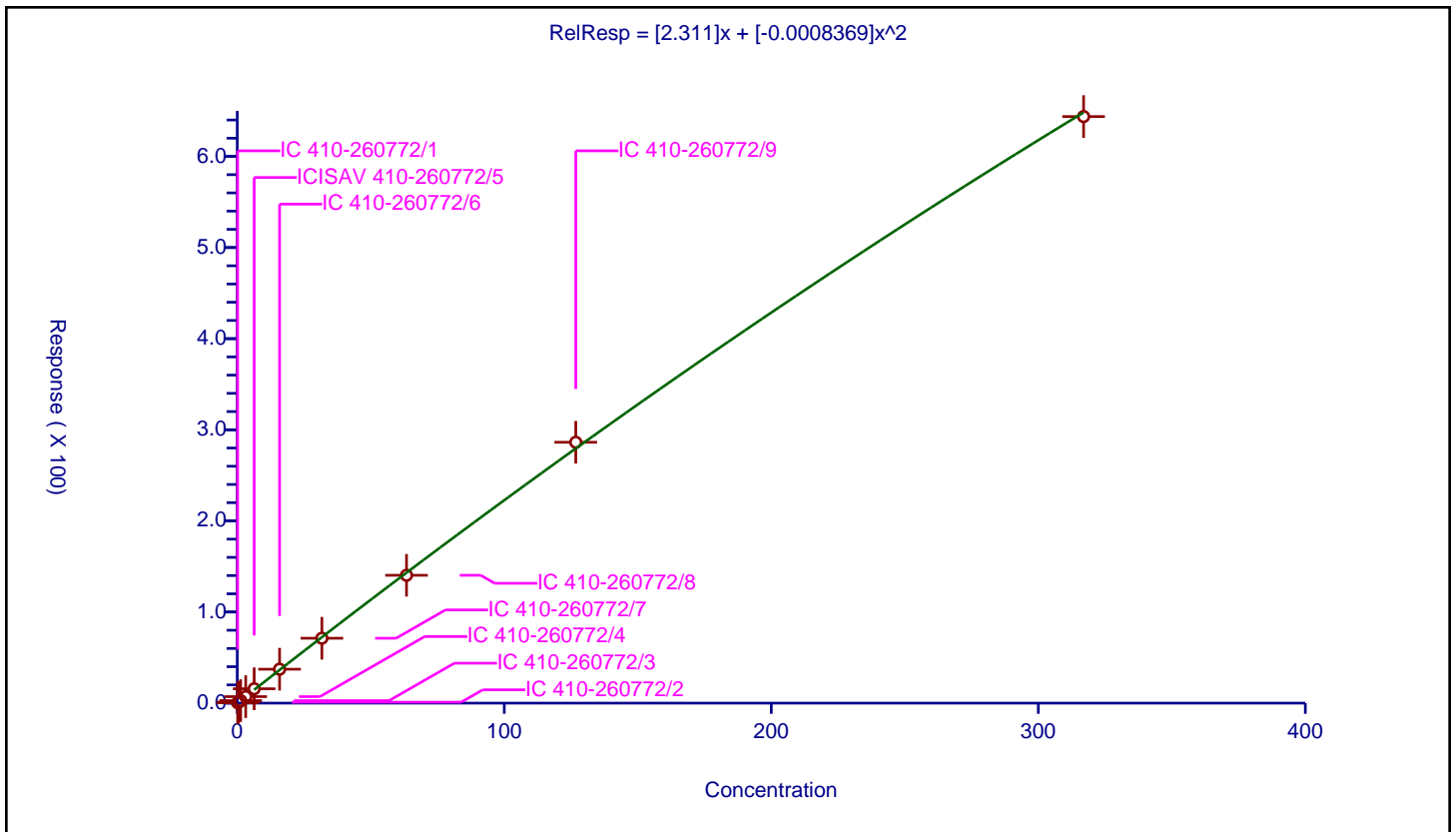
Calibration

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.311
Second Order:	-0.0008369

Error Coefficients	
Standard Error:	34300000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.158478	0.37226	5.0	782424.0	2.348972	Y
2	IC 410-260772/2	0.475433	1.078368	5.0	756152.0	2.268179	Y
3	IC 410-260772/3	1.267822	2.753526	5.0	753532.0	2.171855	Y
4	IC 410-260772/4	3.169555	7.15299	5.0	749330.0	2.256781	Y
5	ICISAV 410-260772/5	6.33911	15.761136	5.0	710727.0	2.486333	Y
6	IC 410-260772/6	15.847775	37.236919	5.0	702341.0	2.349662	Y
7	IC 410-260772/7	31.69555	71.228233	5.0	773603.0	2.247263	Y
8	IC 410-260772/8	63.3911	140.31414	5.0	731839.0	2.213468	Y
9	IC 410-260772/9	126.7822	286.311961	5.0	628418.0	2.258298	Y
10	IC 410-260772/10	316.9555	643.779327	5.0	673694.0	2.031135	Y



Calibration

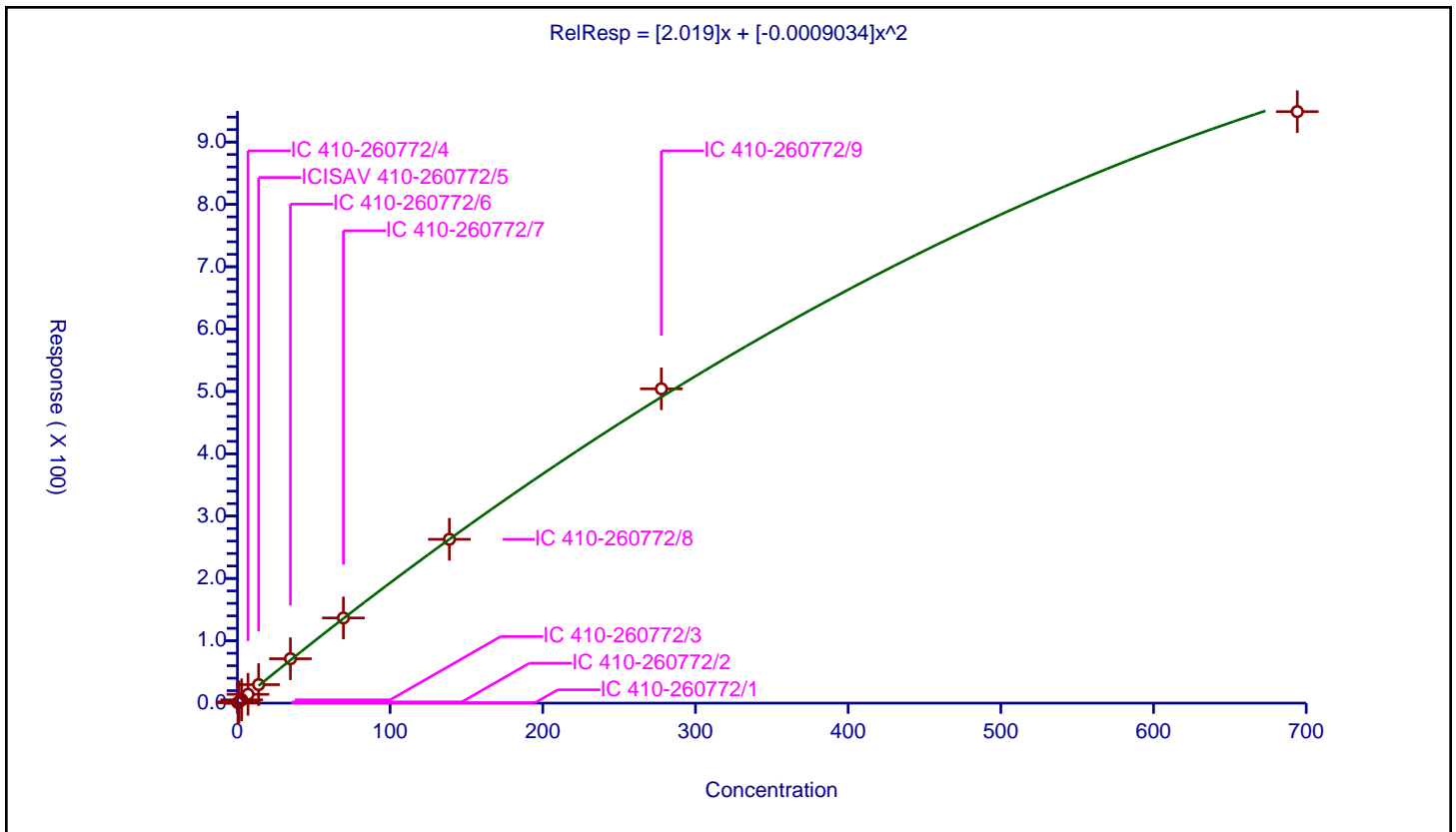
/ BFS_A2B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.019
Second Order:	-0.0009034

Error Coefficients	
Standard Error:	52900000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.347079	0.668039	5.0	782424.0	1.924746	Y
2	IC 410-260772/2	1.041238	2.037018	5.0	756152.0	1.956343	Y
3	IC 410-260772/3	2.776634	5.33702	5.0	753532.0	1.922118	Y
4	IC 410-260772/4	6.941585	14.140672	5.0	749330.0	2.037096	Y
5	ICISAV 410-260772/5	13.88317	29.687208	5.0	710727.0	2.138359	Y
6	IC 410-260772/6	34.707925	71.193131	5.0	702341.0	2.051207	Y
7	IC 410-260772/7	69.41585	136.593563	5.0	773603.0	1.967758	Y
8	IC 410-260772/8	138.8317	262.767323	5.0	731839.0	1.892704	Y
9	IC 410-260772/9	277.6634	504.17017	5.0	628418.0	1.81576	Y
10	IC 410-260772/10	694.1585	948.807114	5.0	673694.0	1.366845	Y



Calibration

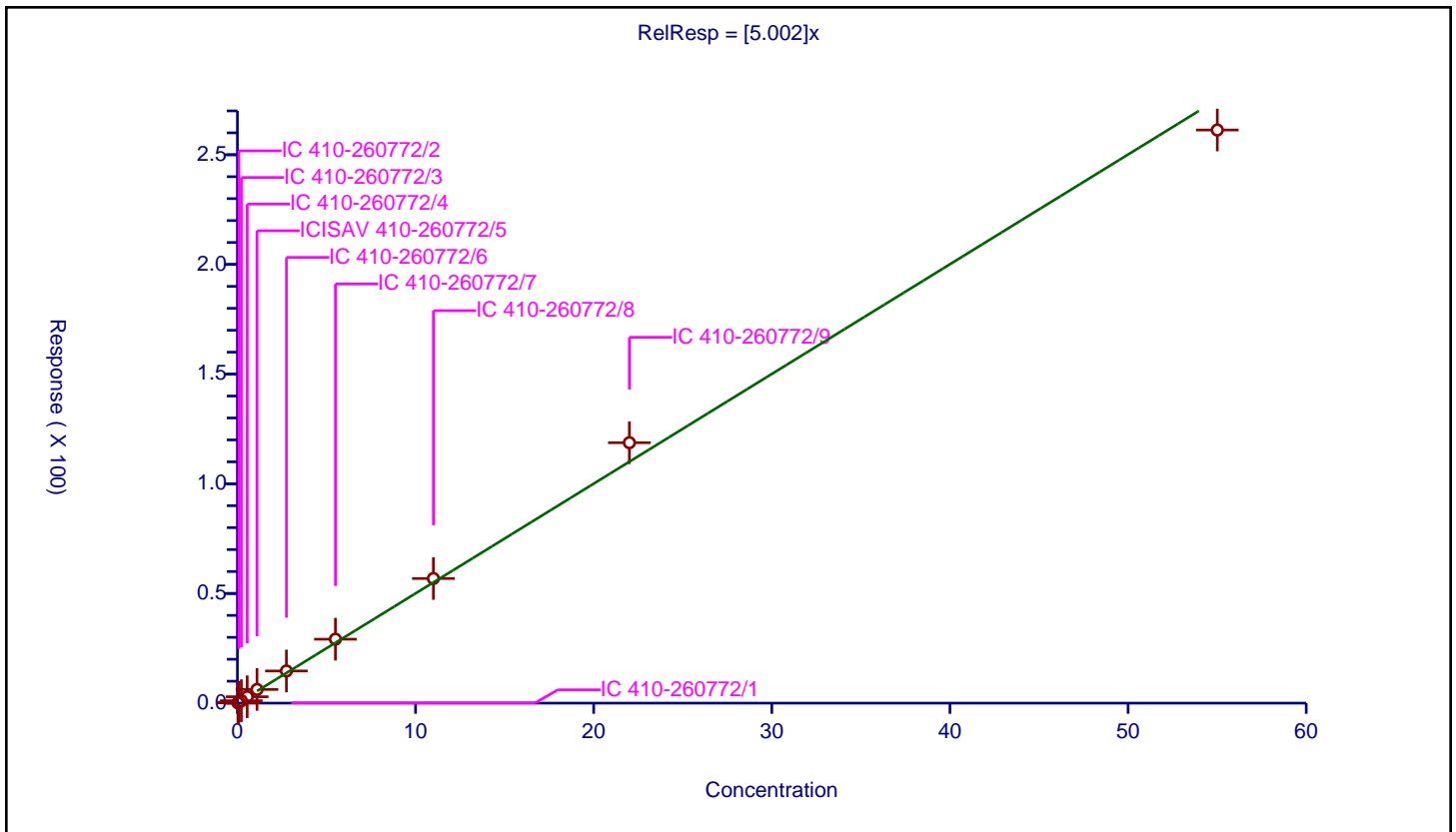
/ BFS_A4B

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.002

Error Coefficients	
Standard Error:	13200000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.027505	0.133253	5.0	782424.0	4.844755	Y
2	IC 410-260772/2	0.082514	0.423116	5.0	756152.0	5.12784	Y
3	IC 410-260772/3	0.220036	1.101652	5.0	753532.0	5.00669	Y
4	IC 410-260772/4	0.55009	2.903107	5.0	749330.0	5.277512	Y
5	ICISAV 410-260772/5	1.10018	6.23494	5.0	710727.0	5.6672	Y
6	IC 410-260772/6	2.75045	14.664821	5.0	702341.0	5.33179	Y
7	IC 410-260772/7	5.5009	29.150708	5.0	773603.0	5.299262	Y
8	IC 410-260772/8	11.0018	56.813753	5.0	731839.0	5.164042	Y
9	IC 410-260772/9	22.0036	118.733462	5.0	628418.0	5.396093	Y
10	IC 410-260772/10	55.009	261.275824	5.0	673694.0	4.749692	Y



Calibration

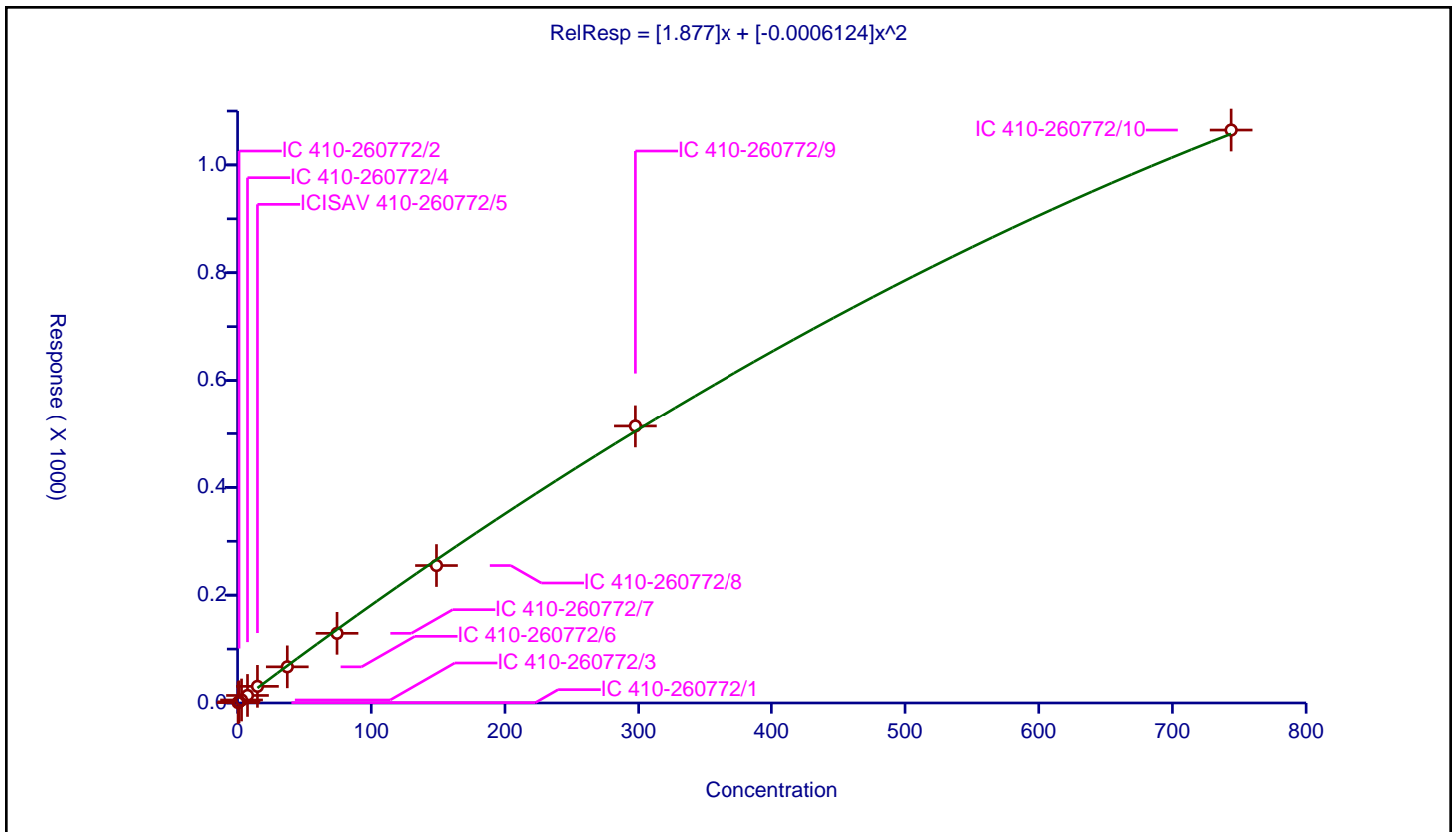
/ BFS_AB3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.877
Second Order:	-0.0006124

Error Coefficients	
Standard Error:	57700000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.371964	0.669183	5.0	782424.0	1.799052	Y
2	IC 410-260772/2	1.115893	2.146486	5.0	756152.0	1.92356	Y
3	IC 410-260772/3	2.975714	5.5805	5.0	753532.0	1.875348	Y
4	IC 410-260772/4	7.439285	13.964088	5.0	749330.0	1.877074	Y
5	ICISAV 410-260772/5	14.87857	30.841434	5.0	710727.0	2.072876	Y
6	IC 410-260772/6	37.196425	67.042783	5.0	702341.0	1.802399	Y
7	IC 410-260772/7	74.39285	129.233877	5.0	773603.0	1.737181	Y
8	IC 410-260772/8	148.7857	255.007153	5.0	731839.0	1.713922	Y
9	IC 410-260772/9	297.5714	514.016125	5.0	628418.0	1.727371	Y
10	IC 410-260772/10	743.9285	1064.740557	5.0	673694.0	1.43124	Y



Calibration

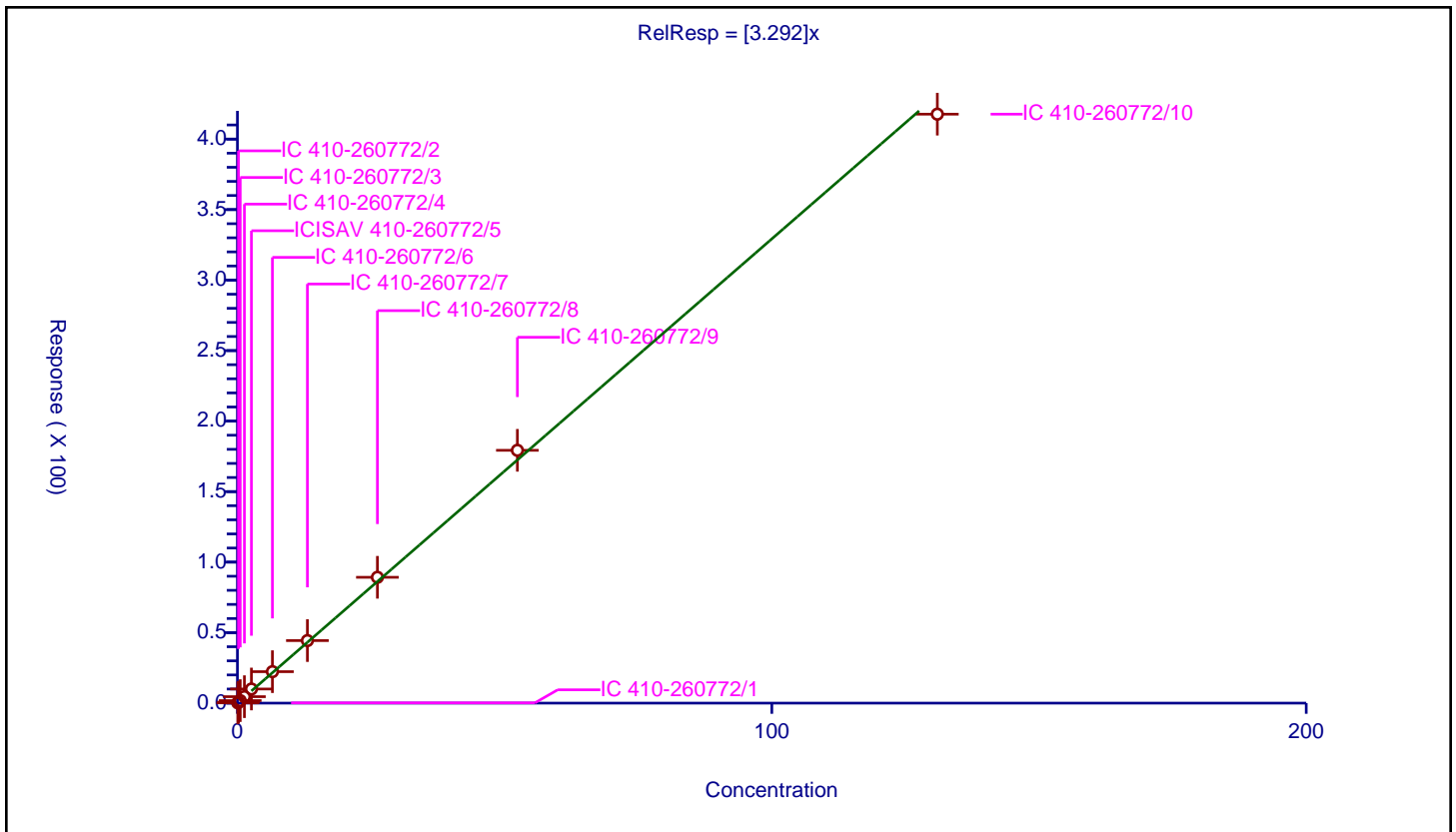
/ BFS_A3B2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.292

Error Coefficients	
Standard Error:	20800000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.065487	0.207477	5.0	782424.0	3.168229	Y
2	IC 410-260772/2	0.19646	0.673046	5.0	756152.0	3.425863	Y
3	IC 410-260772/3	0.523894	1.790787	5.0	753532.0	3.418223	Y
4	IC 410-260772/4	1.309735	4.584589	5.0	749330.0	3.500394	Y
5	ICISAV 410-260772/5	2.61947	10.016511	5.0	710727.0	3.823869	Y
6	IC 410-260772/6	6.548675	22.318069	5.0	702341.0	3.408028	Y
7	IC 410-260772/7	13.09735	44.348678	5.0	773603.0	3.38608	Y
8	IC 410-260772/8	26.1947	89.226667	5.0	731839.0	3.406287	Y
9	IC 410-260772/9	52.3894	179.294848	5.0	628418.0	3.42235	Y
10	IC 410-260772/10	130.9735	417.670144	5.0	673694.0	3.188967	Y



Calibration

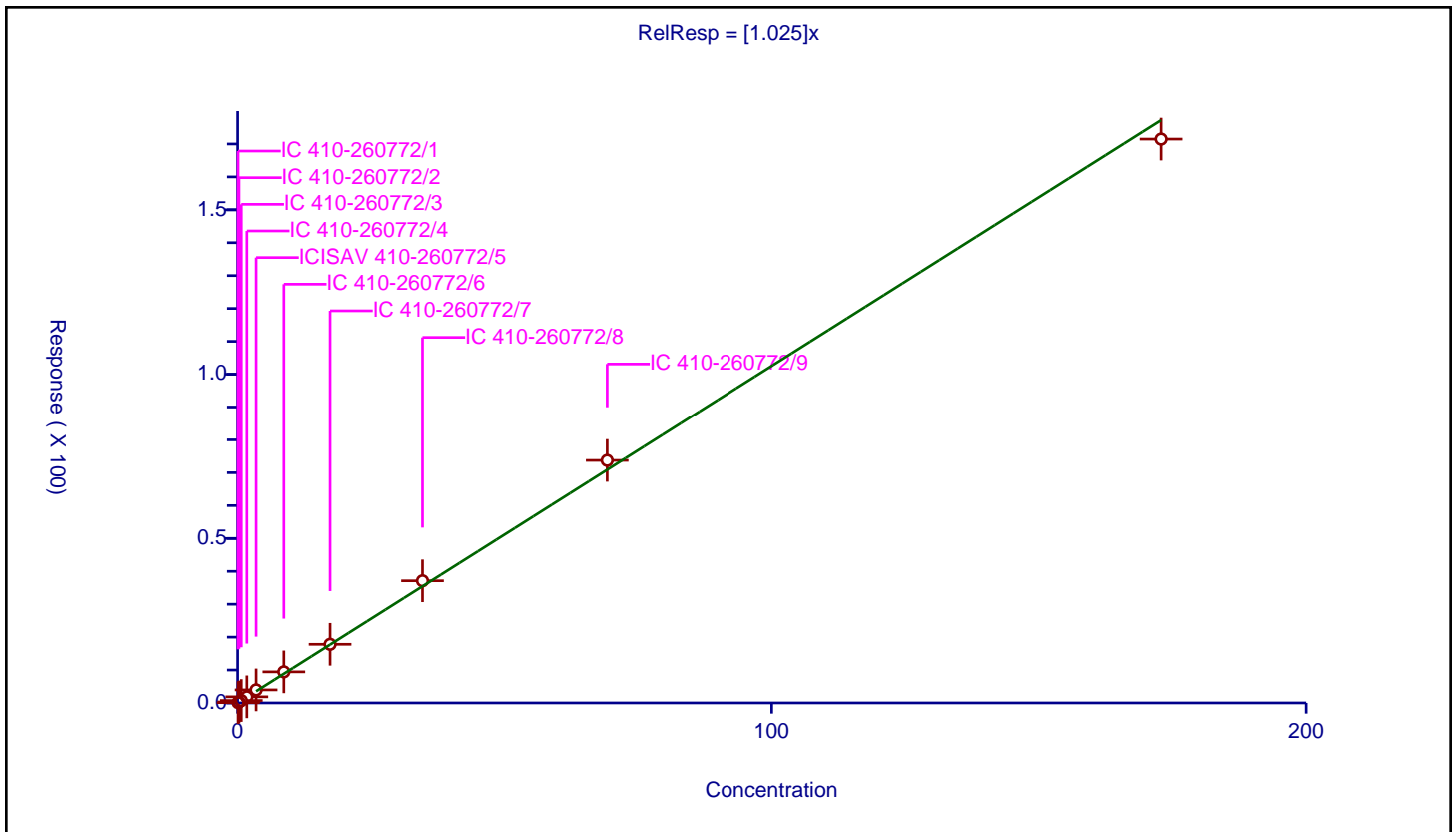
/ BFS_B4

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.025

Error Coefficients	
Standard Error:	8560000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.086443	0.093274	5.0	782424.0	1.079032	Y
2	IC 410-260772/2	0.259328	0.284751	5.0	756152.0	1.098036	Y
3	IC 410-260772/3	0.69154	0.732942	5.0	753532.0	1.059869	Y
4	IC 410-260772/4	1.72885	1.860148	5.0	749330.0	1.075946	Y
5	ICISAV 410-260772/5	3.4577	3.965517	5.0	710727.0	1.146866	Y
6	IC 410-260772/6	8.64425	9.439062	5.0	702341.0	1.091947	Y
7	IC 410-260772/7	17.2885	17.824317	5.0	773603.0	1.030993	Y
8	IC 410-260772/8	34.577	37.125187	5.0	731839.0	1.073696	Y
9	IC 410-260772/9	69.154	73.744991	5.0	628418.0	1.066388	Y
10	IC 410-260772/10	172.885	171.493564	5.0	673694.0	0.991952	Y



Calibration

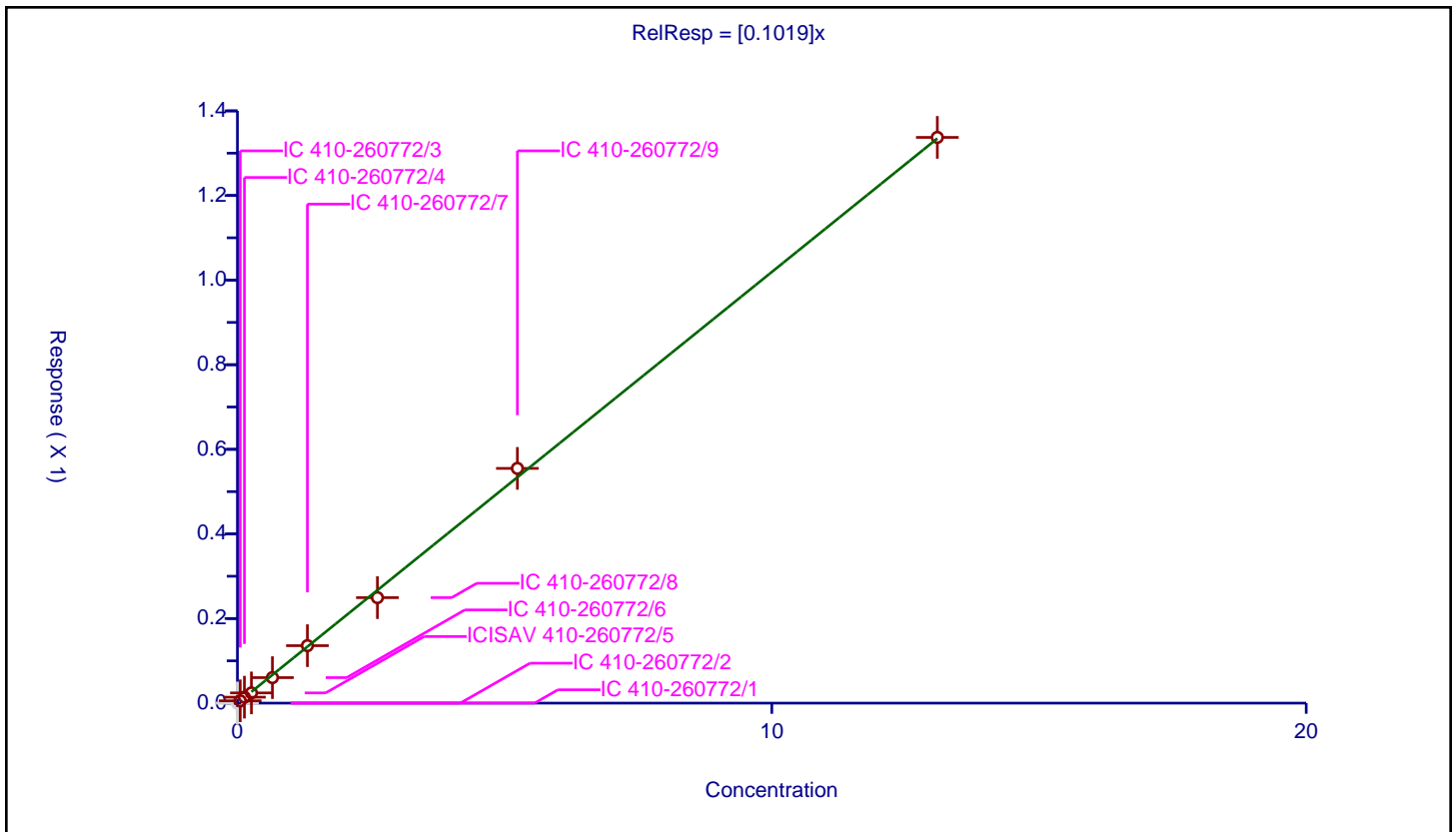
/ BFS_A2B3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1019

Error Coefficients	
Standard Error:	74800
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260772/1	0.0	0.0	5.0	782424.0	NaN	N
2	IC 410-260772/2	0.0	0.0	5.0	756152.0	NaN	N
3	IC 410-260772/3	0.05239	0.005514	5.0	753532.0	0.10525	Y
4	IC 410-260772/4	0.130975	0.014053	5.0	749330.0	0.107292	Y
5	ICISAV 410-260772/5	0.26195	0.024116	5.0	710727.0	0.092064	Y
6	IC 410-260772/6	0.654875	0.060263	5.0	702341.0	0.092022	Y
7	IC 410-260772/7	1.30975	0.135819	5.0	773603.0	0.103698	Y
8	IC 410-260772/8	2.6195	0.249365	5.0	731839.0	0.095196	Y
9	IC 410-260772/9	5.239	0.554917	5.0	628418.0	0.10592	Y
10	IC 410-260772/10	13.0975	1.33735	5.0	673694.0	0.102107	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: ICV 410-260772/12 Calibration Date: 06/01/2022 14:08
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.188		4.07	4.45	-8.7	30.0
BFS_A3B	LID1F		3.187		4.33	4.98	-13.1	30.0
BFS_B3	Q2IDF		2.203		15.2	15.8	-4.1	30.0
BFS_A2B2	Q2IDF		1.903		33.2	34.7	-4.3	30.0
BFS_A4B	LID1F		5.004		2.75	2.75	0.0	30.0
BFS_AB3	Q2IDF		1.744		35.0	37.2	-6.0	30.0
BFS_A3B2	LID1F		3.308		6.58	6.55	0.5	30.0
BFS_B4	LID1F		1.035		8.73	8.64	1.0	30.0
BFS_A2B3	LID1F		0.0852		0.547	0.655	-16.4	30.0
13C3 HFPO-DA	Ave	0.1618	0.1590		4.91	5.00	-1.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Jun-2022 14:08:28 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:30:12 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:28:04

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	4.066	4.066	0.0	0.909	1894186	4.07		5442	M
2 BFS_A3B									
519.00 > 113.00	4.142	4.154	-0.012	0.926	2116257	4.33		266	
3 BFS_B3									
553.00 > 345.00	4.299	4.307	-0.008	0.961	4658463	15.2		2430	
4 BFS_A2B2									M
569.00 > 229.00	4.399	4.407	-0.008	0.984	8813132	33.2		874	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.472	4.481	-0.009	0.881	667147	4.91	98.2	2163	
5 BFS_A4B									
585.00 > 113.00	4.490	4.490	0.0	1.004	1836315	2.75		1445	
7 BFS_AB3									
619.00 > 229.00	4.650	4.660	-0.010	1.040	8655773	35.0		36935	
8 BFS_A3B2									
635.00 > 113.00	4.765	4.772	-0.007	1.066	2890585	6.58		1229	
9 BFS_B4									
669.00 > 461.00	4.889	4.897	-0.008	1.093	1194153	8.73		1174	
10 BFS_A2B3									M
685.00 > 571.00	4.999	5.006	-0.007	1.118	7442	0.5473		167	M
* 11 13C2 PFOA									
415.00 > 370.00	5.077	5.085	-0.008		4196839	5.00		2838	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_BFS_00006

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-12.d

Injection Date: 01-Jun-2022 14:08:28

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

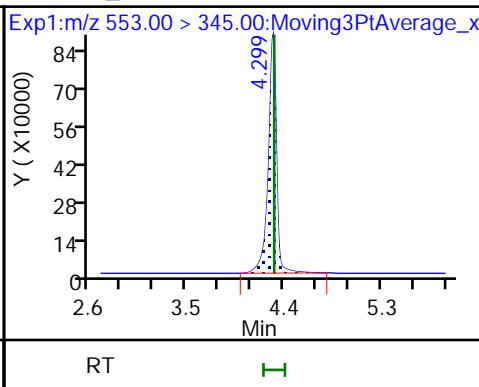
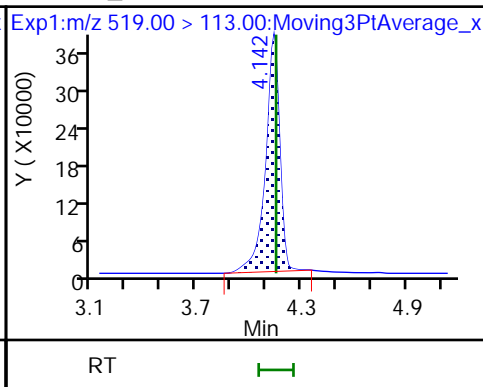
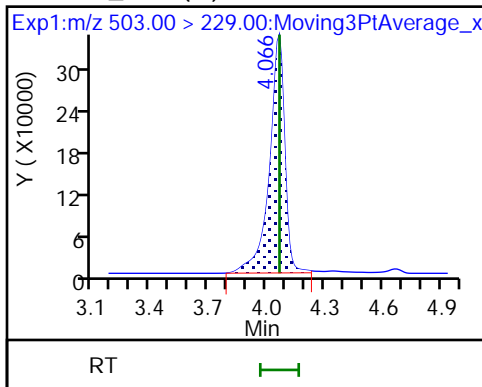
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B

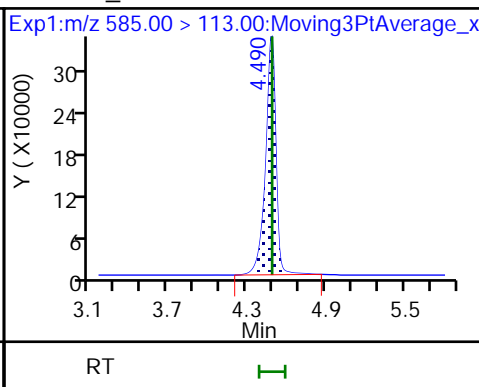
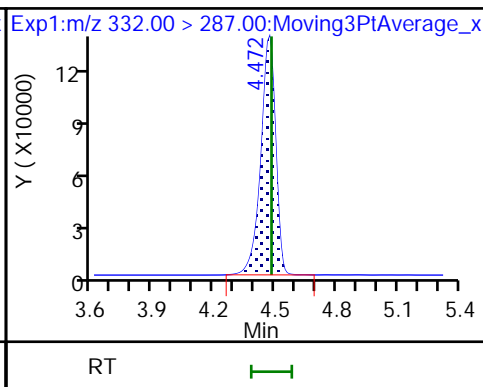
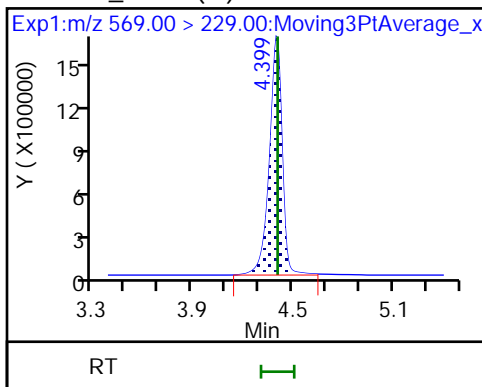
3 BFS_B3



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

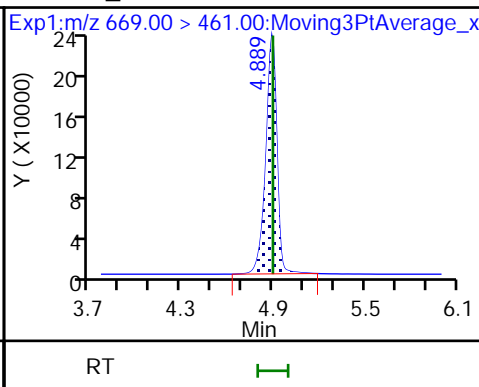
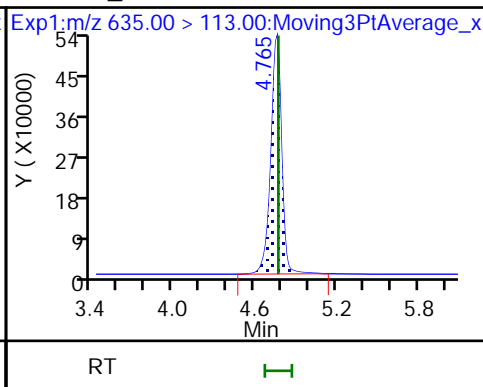
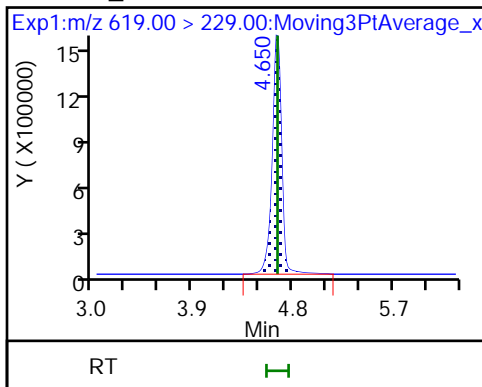
5 BFS_A4B



7 BFS_AB3

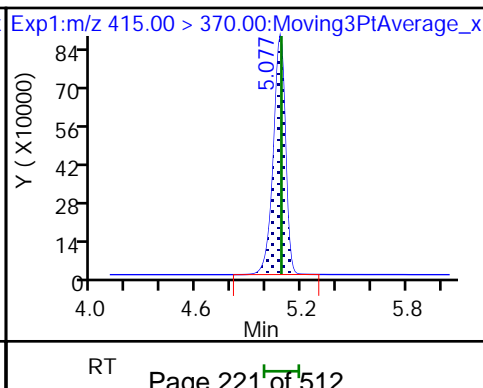
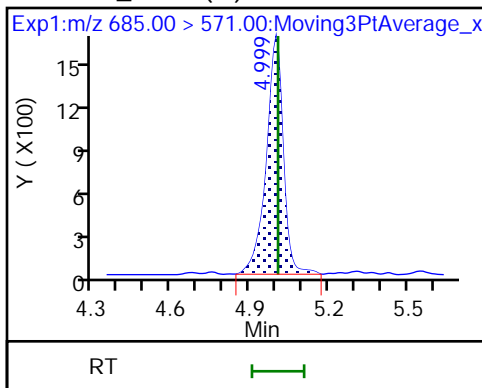
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

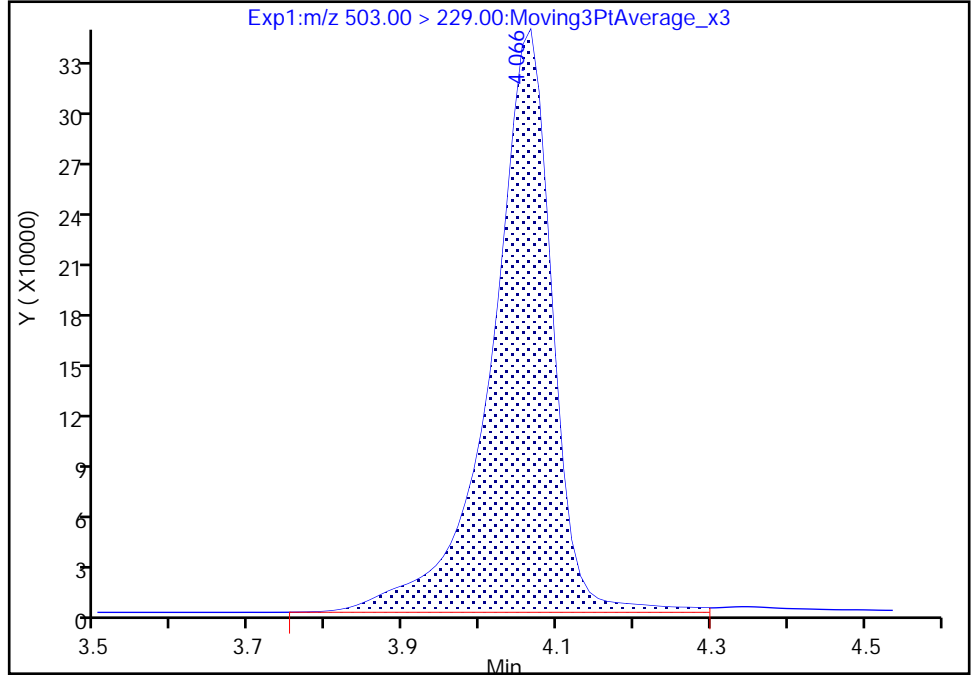
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Injection Date: 01-Jun-2022 14:08:28 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

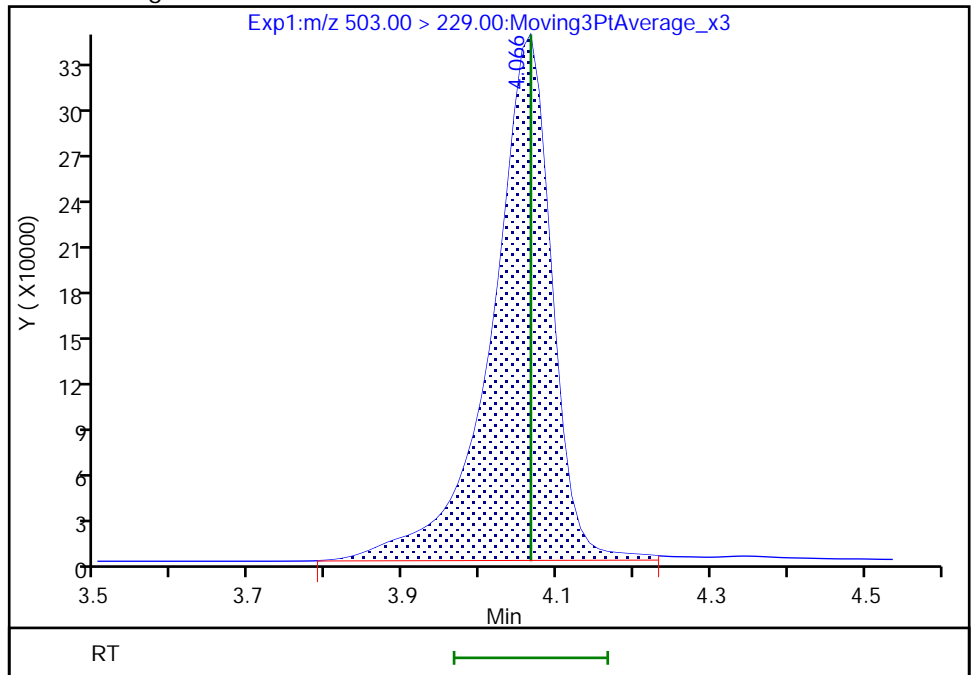
RT: 4.07
Area: 1917461
Amount: 4.115948
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 1894186
Amount: 4.065987
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:42
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

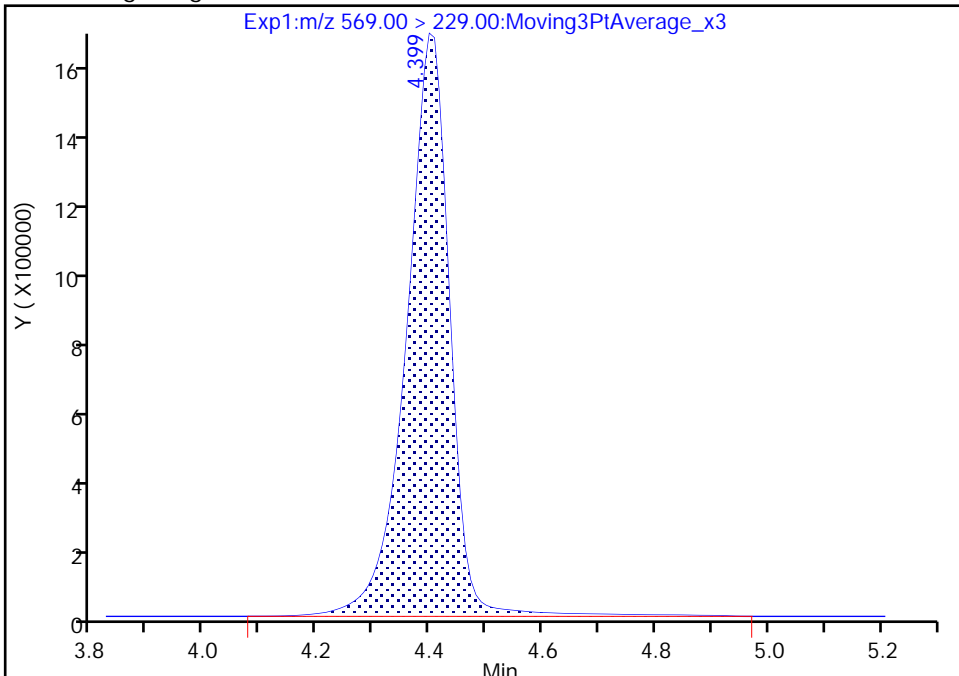
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Injection Date: 01-Jun-2022 14:08:28 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

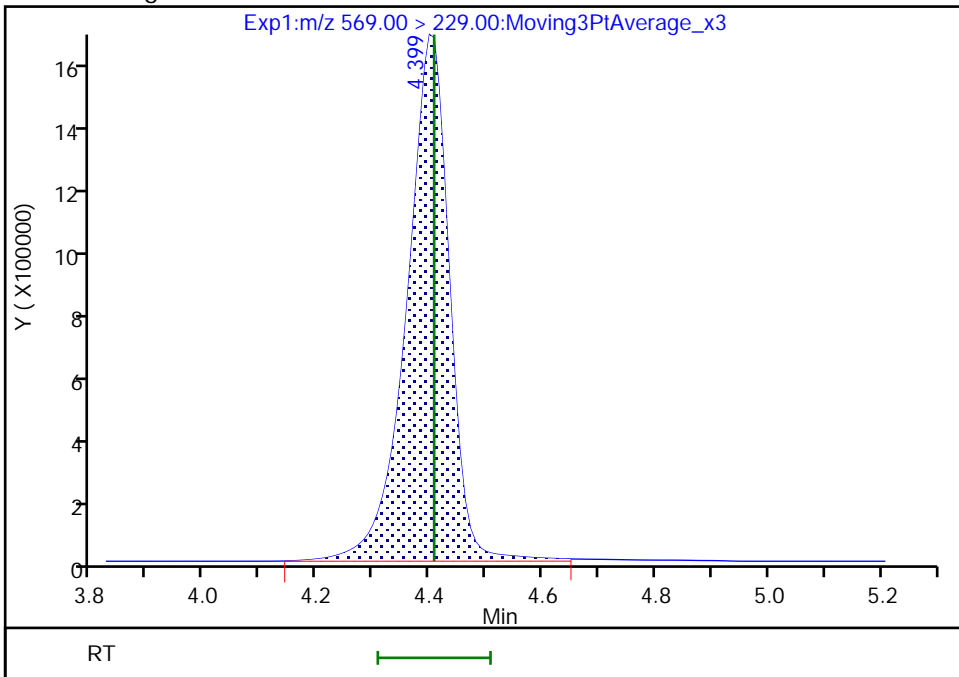
RT: 4.40
Area: 8888517
Amount: 33.491453
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 8813132
Amount: 33.203057
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:49
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 223 of 512

Eurofins Lancaster Laboratories Environment Testing, LLC

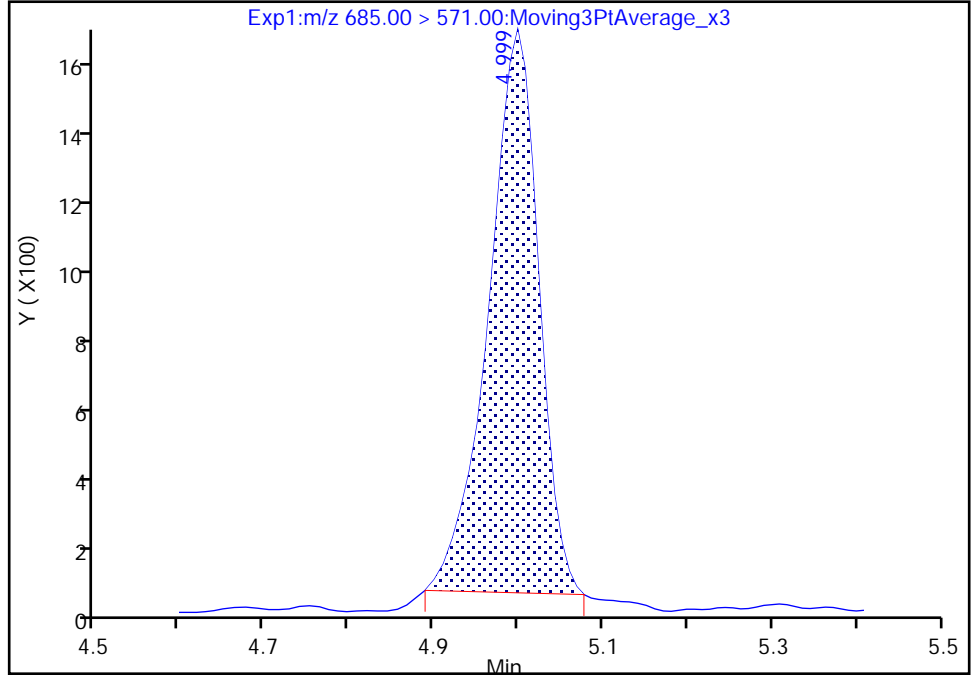
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Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

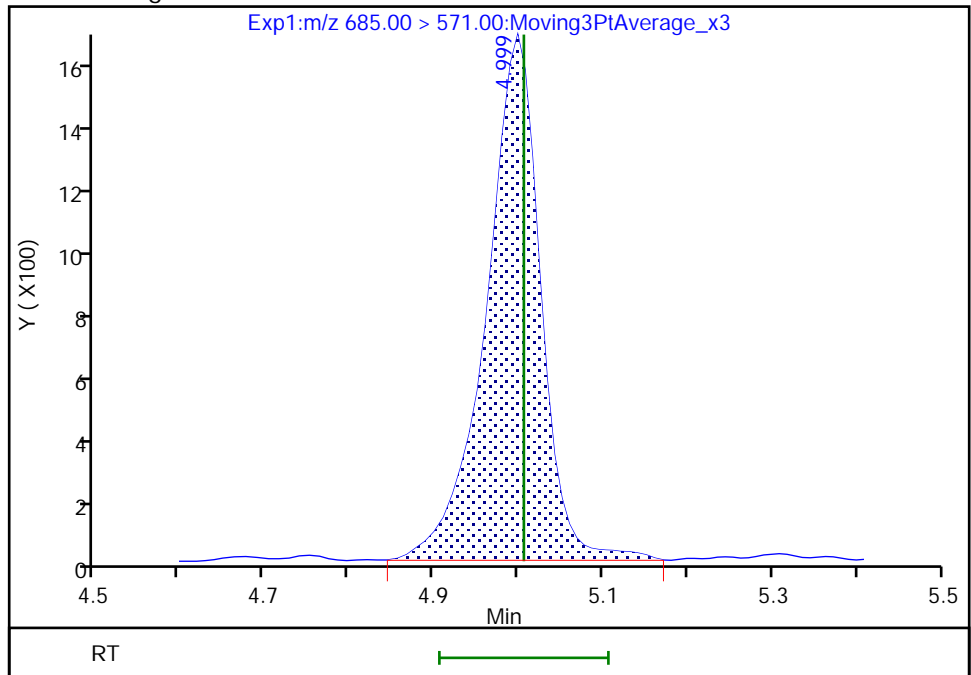
RT: 5.00
Area: 6628
Amount: 0.487396
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 7442
Amount: 0.547255
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:59
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 224 of 512

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/1 Calibration Date: 06/01/2022 14:33
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.392		1.73	1.78	-2.9	30.0
BFS_A3B	LID1F		3.535		1.92	1.99	-3.6	30.0
BFS_B3	Q2IDF		2.381		6.55	6.34	3.3	30.0
BFS_A2B2	Q2IDF		2.069		14.3	13.9	3.1	30.0
BFS_A4B	LID1F		5.319		1.17	1.10	6.3	30.0
BFS_AB3	Q2IDF		1.931		15.4	14.9	3.4	30.0
BFS_A3B2	LID1F		3.513		2.79	2.62	6.7	30.0
BFS_B4	LID1F		1.105		3.73	3.46	7.8	30.0
BFS_A2B3	LID1F		0.1108		0.285	0.262	8.7	30.0
13C3 HFPO-DA	Ave	0.1618	0.1665		5.14	5.00	2.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-14.d
 Lims ID: CCV 1_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 14:33:41 ALS Bottle#: 6 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 1_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:39:30

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.057	4.066	-0.009	0.909	917764	1.73	97.1	5017
2 BFS_A3B	519.00 > 113.00	4.133	4.154	-0.021	0.926	1069045	1.92	96.4	189
3 BFS_B3	553.00 > 345.00	4.294	4.307	-0.013	0.962	2292489	6.55	103	1172
4 BFS_A2B2	569.00 > 229.00	4.393	4.407	-0.014	0.984	4364359	14.3	103	1142 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.465	4.481	-0.016	0.881	759555	5.14	103	1989
5 BFS_A4B	585.00 > 113.00	4.474	4.490	-0.016	1.002	888981	1.17	106	568
7 BFS_AB3	619.00 > 229.00	4.653	4.660	-0.007	1.042	4364901	15.4	103	1641
8 BFS_A3B2	635.00 > 113.00	4.755	4.772	-0.017	1.065	1397834	2.79	107	613
9 BFS_B4	669.00 > 461.00	4.881	4.897	-0.016	1.093	580639	3.73	108	481
10 BFS_A2B3	685.00 > 571.00	4.983	5.006	-0.023	1.116	4410	0.2848	109	128 M
* 11 13C2 PFOA	415.00 > 370.00	5.071	5.085	-0.014		4561772	5.00		2812

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-14.d

Injection Date: 01-Jun-2022 14:33:41

Instrument ID: 30733

Lims ID: CCV_1_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 1

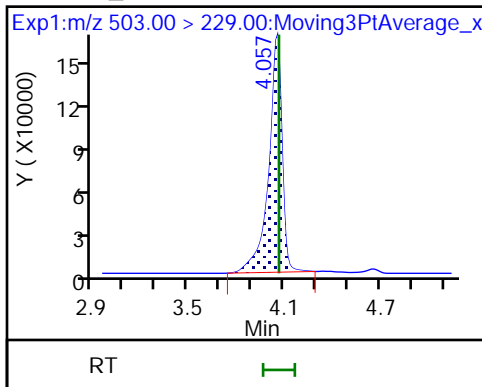
Injection Vol: 15.0 ul

Dil. Factor: 1.0000

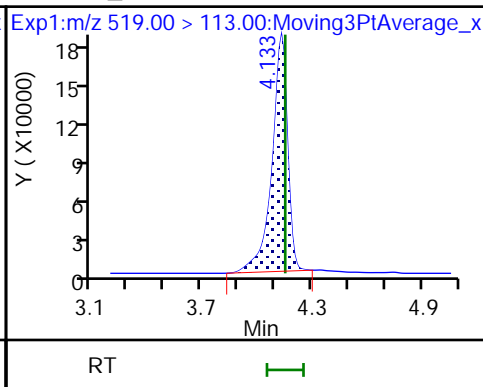
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

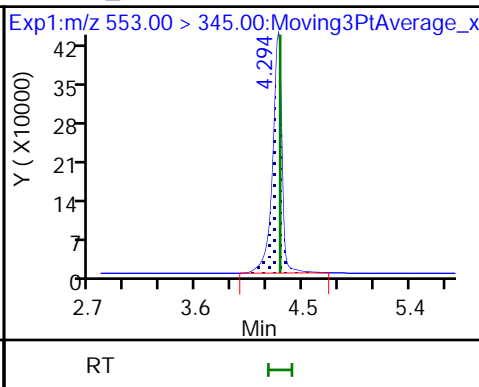
1 BFS_AB2



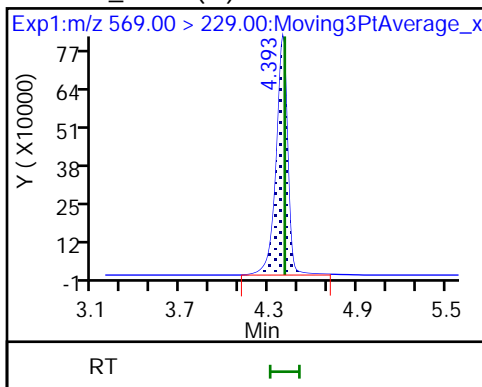
2 BFS_A3B



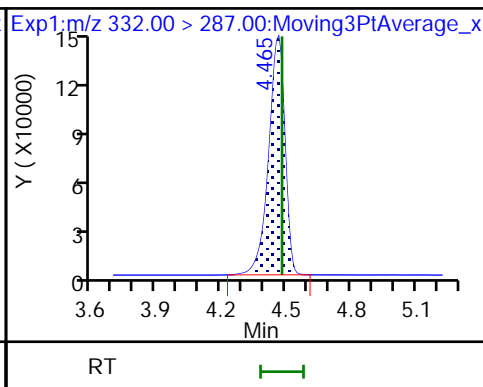
3 BFS_B3



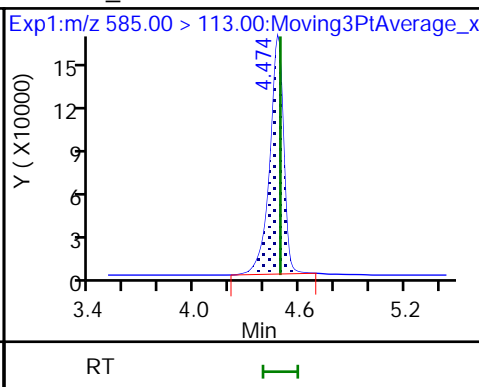
4 BFS_A2B2 (M)



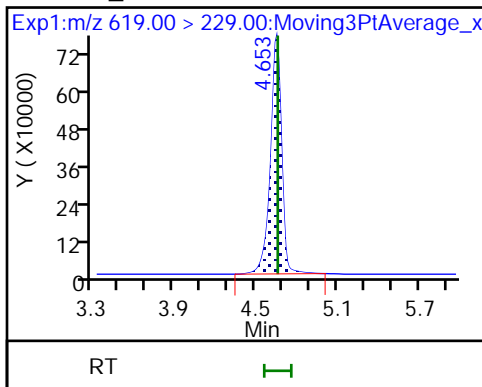
D 6 13C3 HFPO-DA



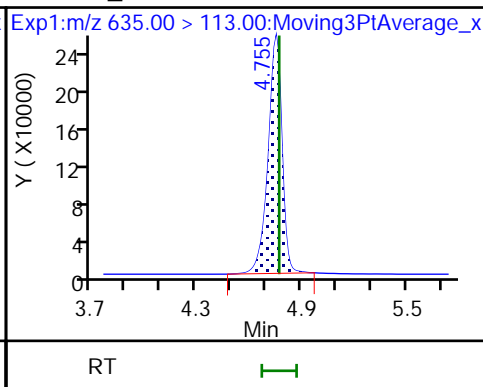
5 BFS_A4B



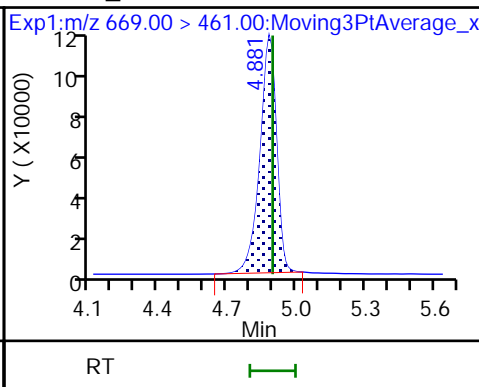
7 BFS_AB3



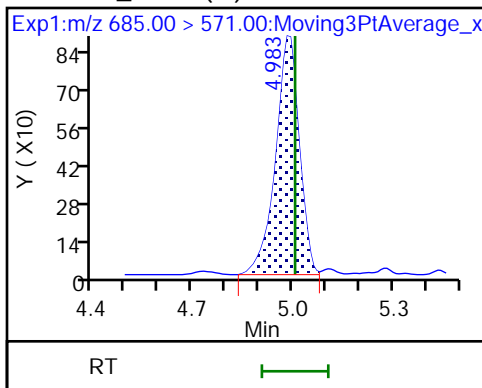
8 BFS_A3B2



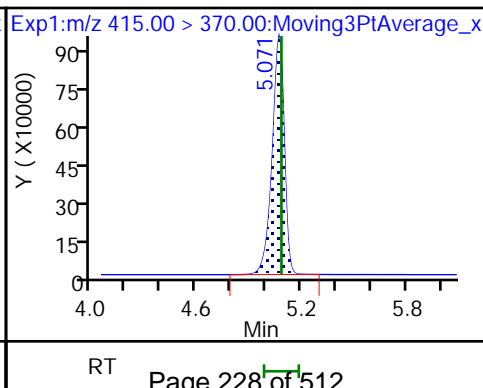
9 BFS_B4



10 BFS_A2B3 (M)



* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

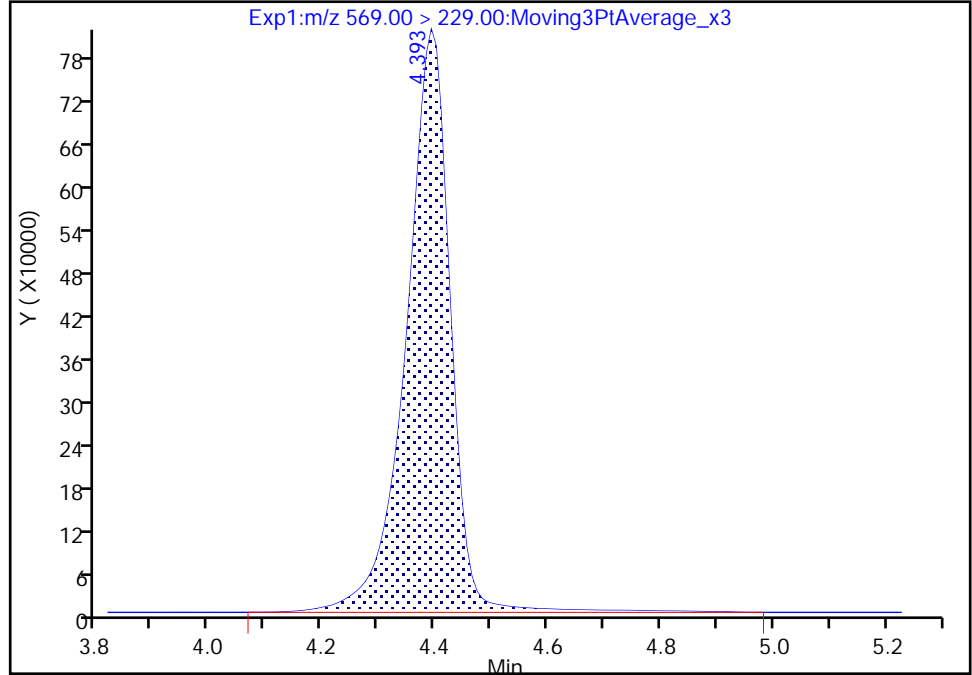
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-14.d
Injection Date: 01-Jun-2022 14:33:41 Instrument ID: 30733
Lims ID: CCV 1_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

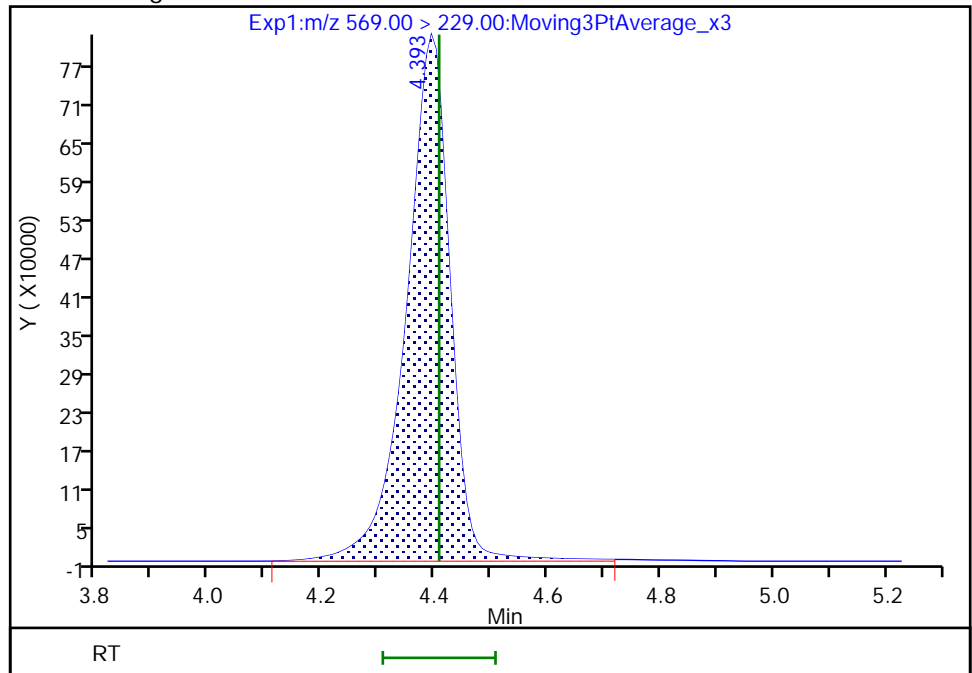
RT: 4.39
Area: 4384628
Amount: 14.386241
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 4364359
Amount: 14.319305
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:39:18
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

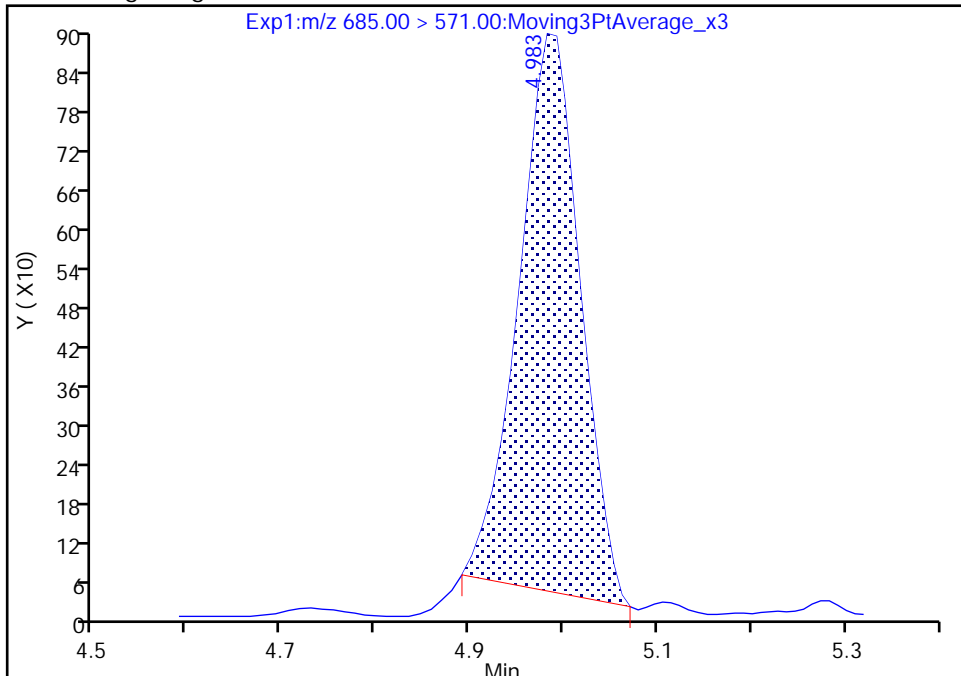
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Injection Date: 01-Jun-2022 14:33:41 Instrument ID: 30733
Lims ID: CCV 1_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

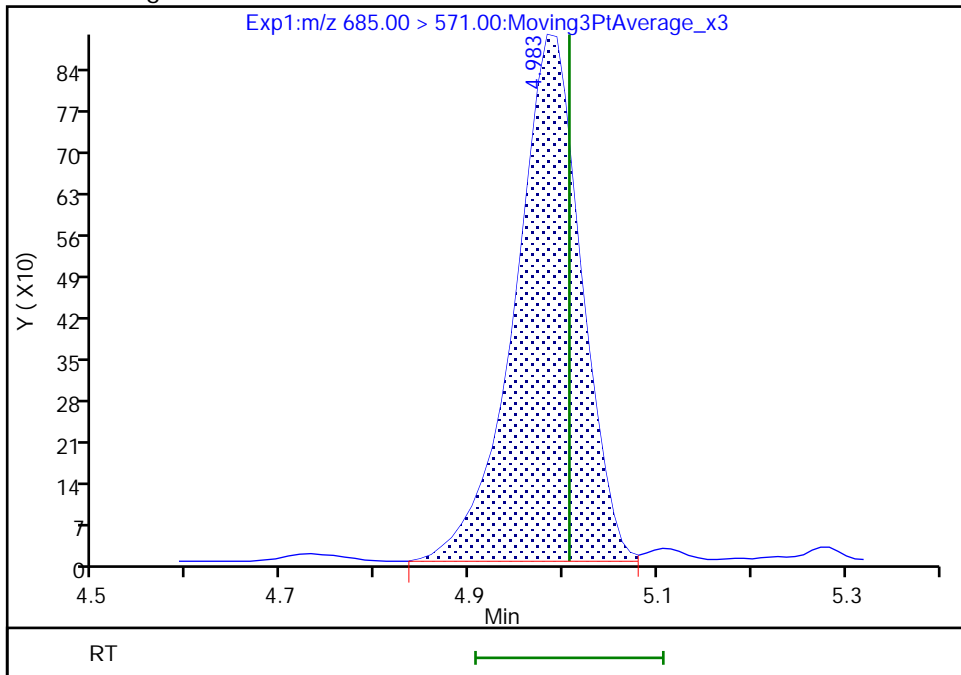
RT: 4.98
Area: 3906
Amount: 0.252287
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 4410
Amount: 0.284840
Amount Units: ng/ml

Manual Integration Results



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/14 Calibration Date: 06/01/2022 17:17
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-27.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.015		3.85	4.45	-13.7	30.0
BFS_A3B	LID1F		3.210		4.36	4.98	-12.4	30.0
BFS_B3	Q2IDF		2.180		15.0	15.8	-5.1	30.0
BFS_A2B2	Q2IDF		1.914		33.4	34.7	-3.8	30.0
BFS_A4B	LID1F		5.028		2.76	2.75	0.5	30.0
BFS_AB3	Q2IDF		1.761		35.3	37.2	-5.1	30.0
BFS_A3B2	LID1F		3.357		6.68	6.55	2.0	30.0
BFS_B4	LID1F		1.017		8.58	8.64	-0.8	30.0
BFS_A2B3	LID1F		0.1004		0.645	0.655	-1.5	30.0
13C3 HFPO-DA	Ave	0.1618	0.1608		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-27.d
 Lims ID: CCV 2_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 17:17:36 ALS Bottle#: 7 Worklist Smp#: 14
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:49 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:40:00

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.053	4.066	-0.013	0.909	2027270	3.85	86.3	6186
2 BFS_A3B	519.00 > 113.00	4.128	4.154	-0.026	0.926	2412328	4.36	87.6	241
3 BFS_B3	553.00 > 345.00	4.288	4.307	-0.019	0.962	5217323	15.0	94.9	1006 M
4 BFS_A2B2	569.00 > 229.00	4.388	4.407	-0.019	0.984	10030977	33.4	96.2	978 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.459	4.481	-0.022	0.880	755053	4.97	99.4	2130
5 BFS_A4B	585.00 > 113.00	4.478	4.490	-0.012	1.004	2088452	2.76	101	1612
7 BFS_AB3	619.00 > 229.00	4.647	4.660	-0.013	1.042	9892371	35.3	94.9	295931
8 BFS_A3B2	635.00 > 113.00	4.748	4.772	-0.024	1.065	3319479	6.68	102	1318
9 BFS_B4	669.00 > 461.00	4.875	4.897	-0.022	1.093	1328195	8.58	99.2	955
10 BFS_A2B3	685.00 > 571.00	4.988	5.006	-0.018	1.118	9925	0.6449	98.5	212 M
* 11 13C2 PFOA	415.00 > 370.00	5.067	5.085	-0.018		4694877	5.00		2612

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-27.d

Injection Date: 01-Jun-2022 17:17:36

Instrument ID: 30733

Lims ID: CCV_2_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 14

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

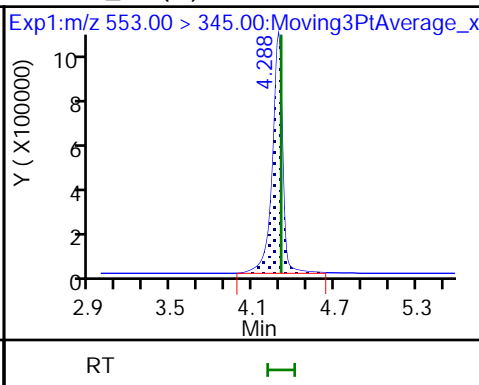
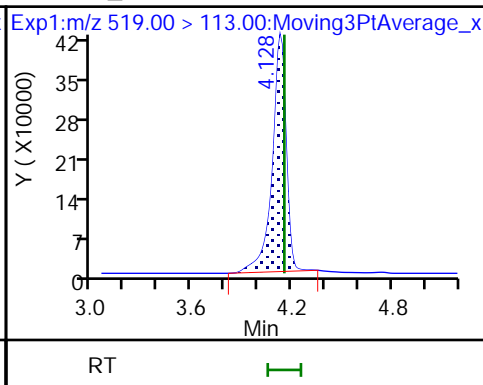
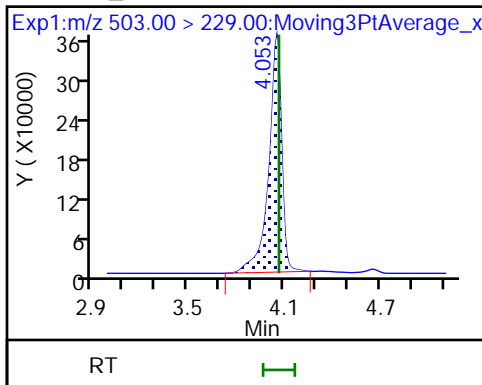
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

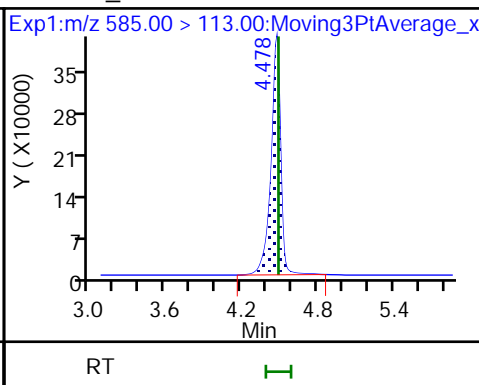
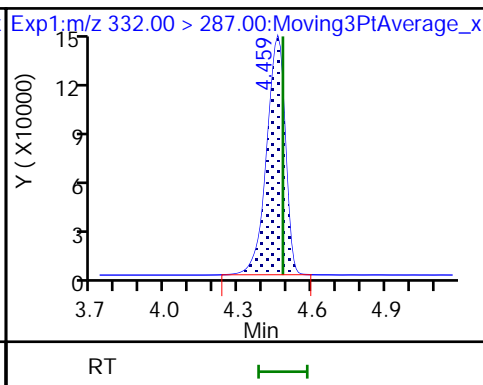
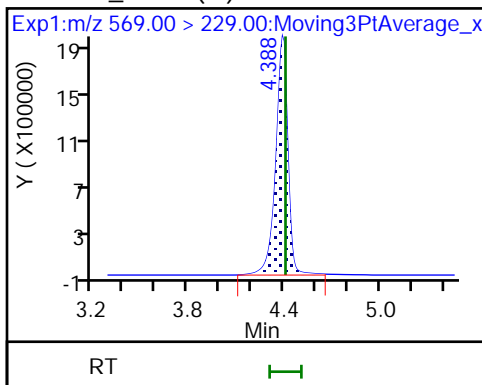
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

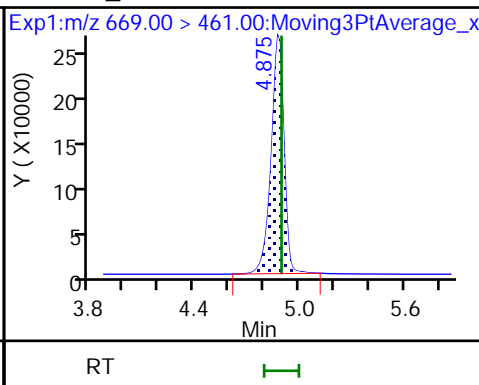
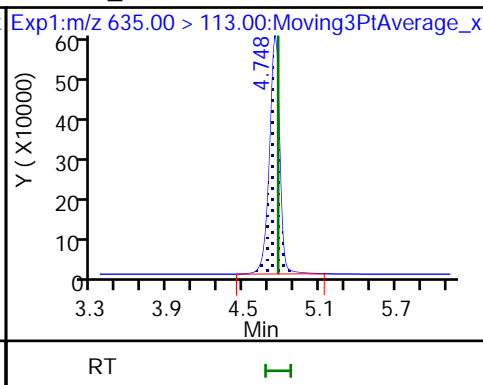
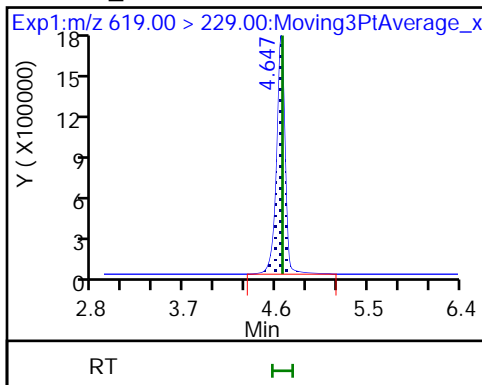
5 BFS_A4B



7 BFS_AB3

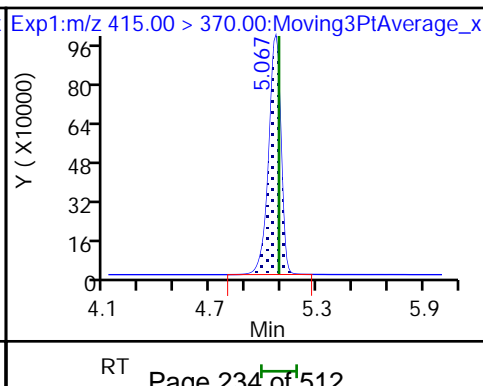
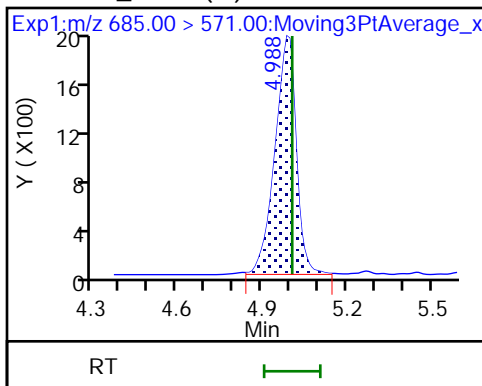
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

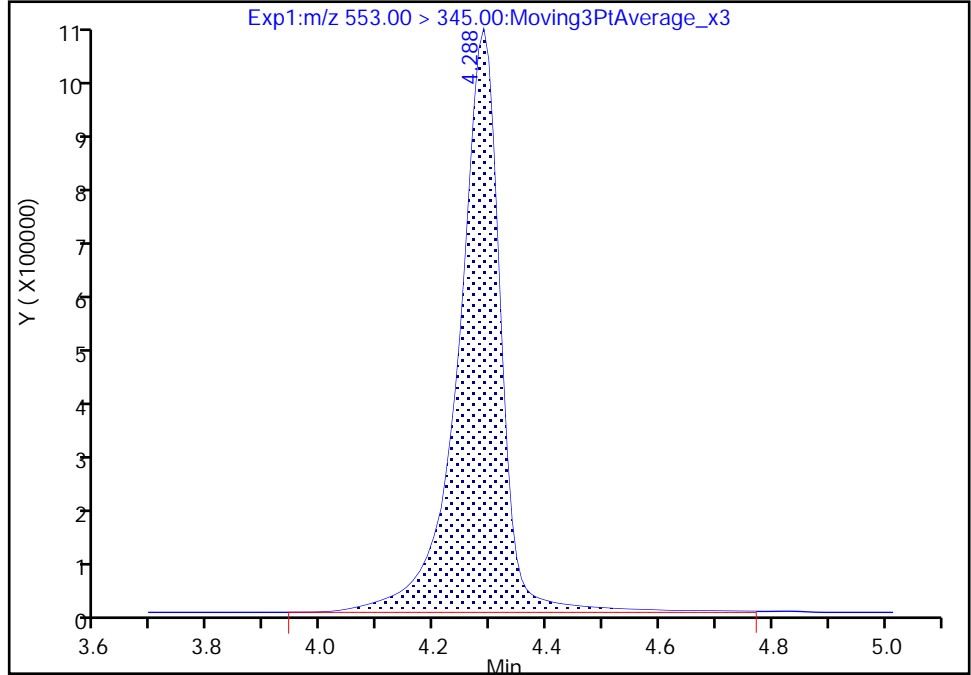
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Injection Date: 01-Jun-2022 17:17:36 Instrument ID: 30733
Lims ID: CCV 2_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

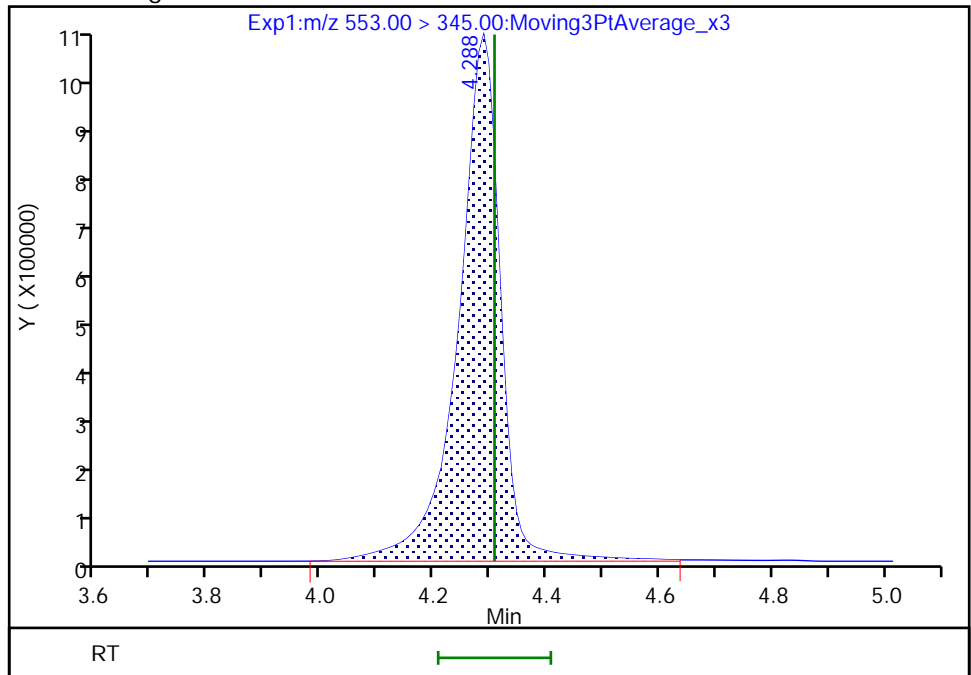
RT: 4.29
Area: 5237593
Amount: 15.093363
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 5217323
Amount: 15.034629
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:39:41
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

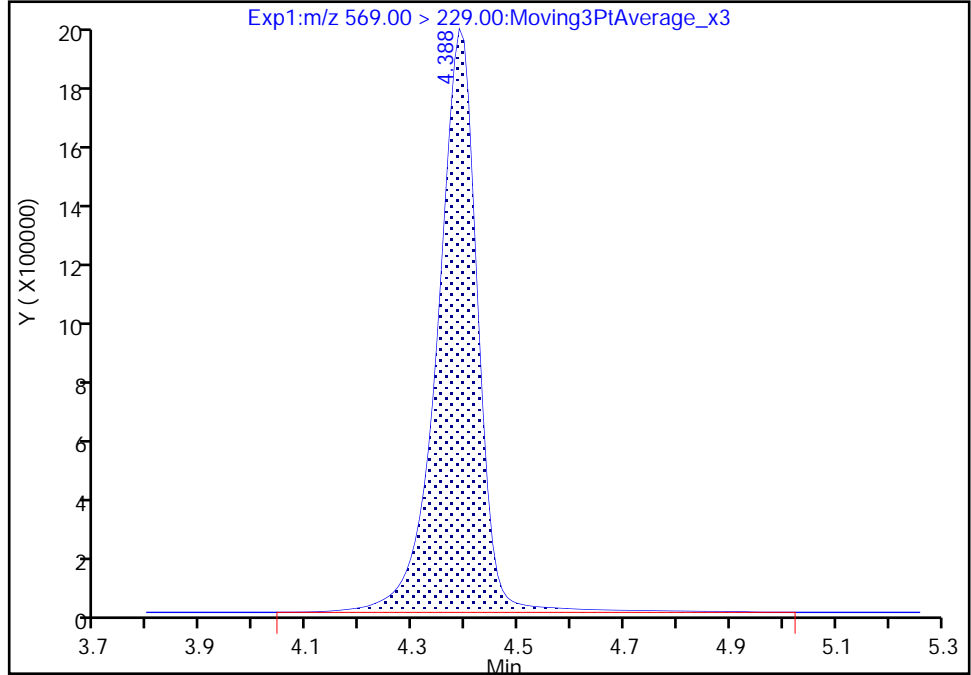
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Injection Date: 01-Jun-2022 17:17:36 Instrument ID: 30733
Lims ID: CCV_2_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

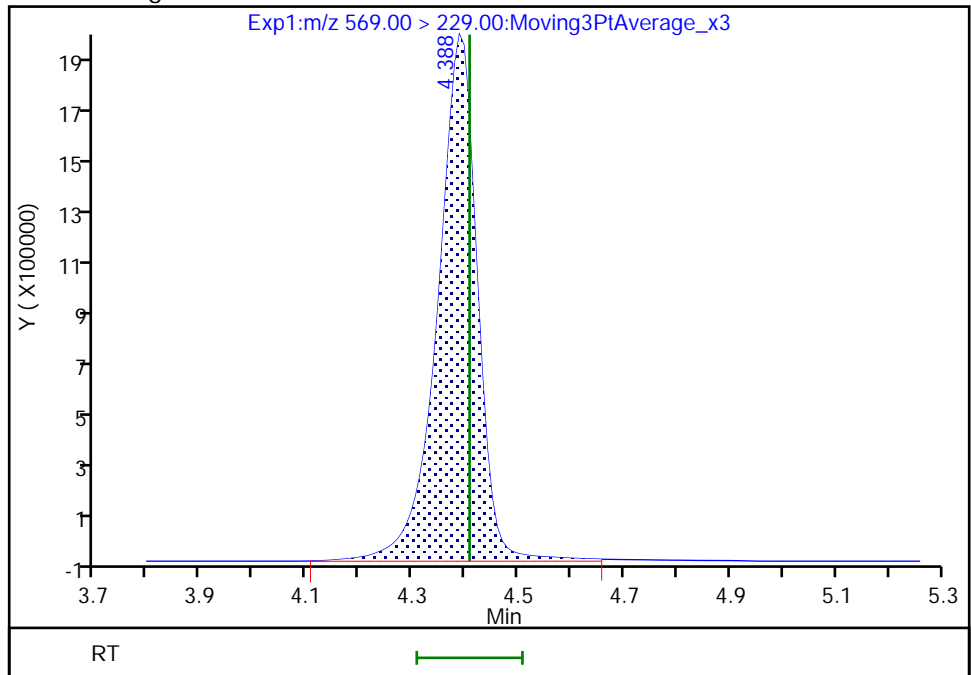
RT: 4.39
Area: 10092284
Amount: 33.601602
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 10030977
Amount: 33.394340
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

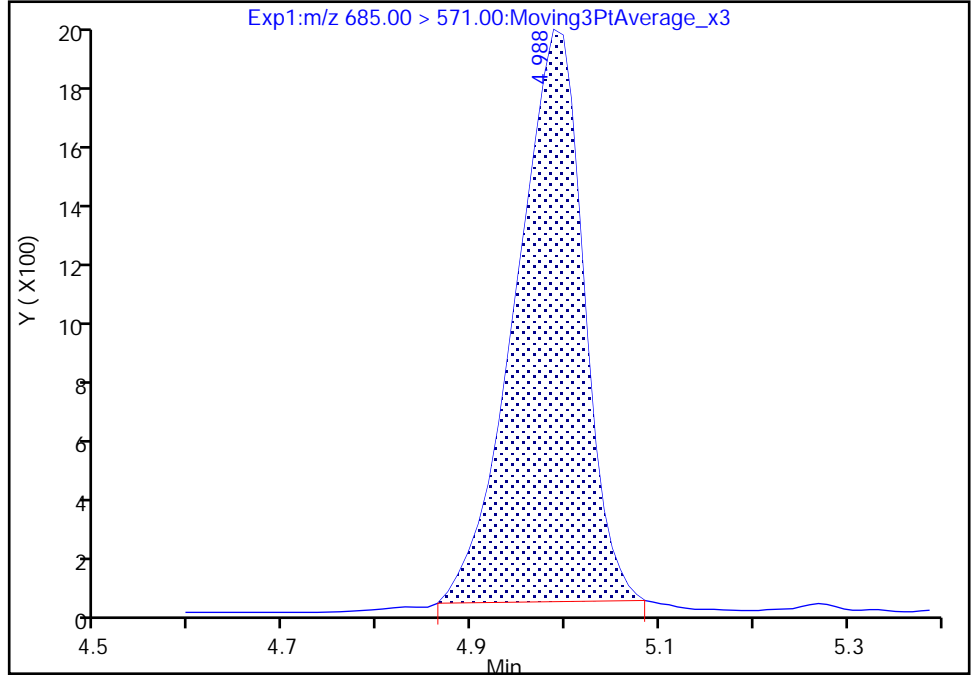
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Injection Date: 01-Jun-2022 17:17:36 Instrument ID: 30733
Lims ID: CCV 2_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 14
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

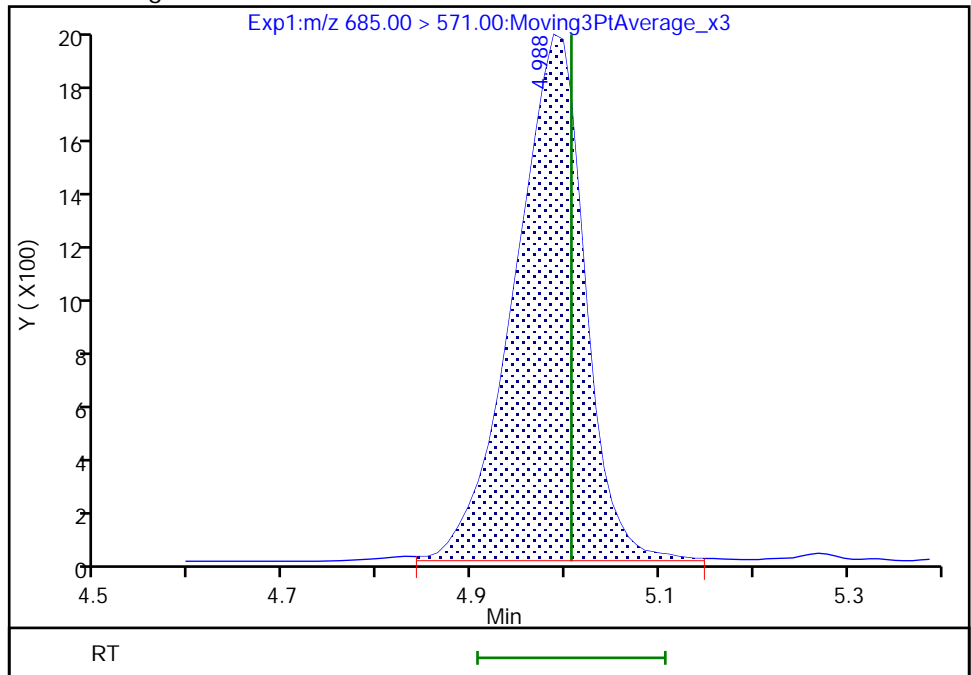
RT: 4.99
Area: 9396
Amount: 0.610502
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 9925
Amount: 0.644873
Amount Units: ng/ml

Manual Integration Results



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/25 Calibration Date: 06/01/2022 19:36
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-38.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.274		8.35	8.91	-6.2	30.0
BFS_A3B	LID1F		3.422		9.29	9.95	-6.6	30.0
BFS_B3	Q2IDF		2.241		31.1	31.7	-1.9	30.0
BFS_A2B2	Q2IDF		1.972		70.0	69.4	0.8	30.0
BFS_A4B	LID1F		5.227		5.75	5.50	4.5	30.0
BFS_AB3	Q2IDF		1.811		73.5	74.4	-1.1	30.0
BFS_A3B2	LID1F		3.463		13.8	13.1	5.2	30.0
BFS_B4	LID1F		1.097		18.5	17.3	7.0	30.0
BFS_A2B3	LID1F		0.0966		1.24	1.31	-5.2	30.0
13C3 HFPO-DA	Ave	0.1618	0.1591		4.91	5.00	-1.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-38.d
 Lims ID: CCV 3_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 19:36:20 ALS Bottle#: 8 Worklist Smp#: 25
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:40:35

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.055	4.066	-0.011	0.909	4062342	8.35	93.8	7465
2 BFS_A3B	519.00 > 113.00	4.130	4.154	-0.024	0.926	4745311	9.29	93.4	285
3 BFS_B3	553.00 > 345.00	4.282	4.307	-0.025	0.960	9896867	31.1	98.1	1305
4 BFS_A2B2	569.00 > 229.00	4.390	4.407	-0.017	0.984	19067527	70.0	101	976 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.462	4.481	-0.019	0.881	696568	4.91	98.3	2090
5 BFS_A4B	585.00 > 113.00	4.471	4.490	-0.019	1.002	4005732	5.75	104	1951
7 BFS_AB3	619.00 > 229.00	4.650	4.660	-0.010	1.042	18773082	73.5	98.9	329768
8 BFS_A3B2	635.00 > 113.00	4.749	4.772	-0.023	1.064	6319337	13.8	105	1748
9 BFS_B4	669.00 > 461.00	4.875	4.897	-0.022	1.092	2642121	18.5	107	2293
10 BFS_A2B3	685.00 > 571.00	4.987	5.006	-0.019	1.118	17621	1.24	94.8	411 M
* 11 13C2 PFOA	415.00 > 370.00	5.067	5.085	-0.018		4378964	5.00		2582

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-38.d

Injection Date: 01-Jun-2022 19:36:20

Instrument ID: 30733

Lims ID: CCV_3_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 25

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

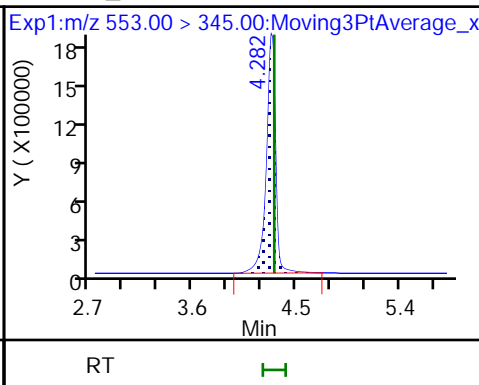
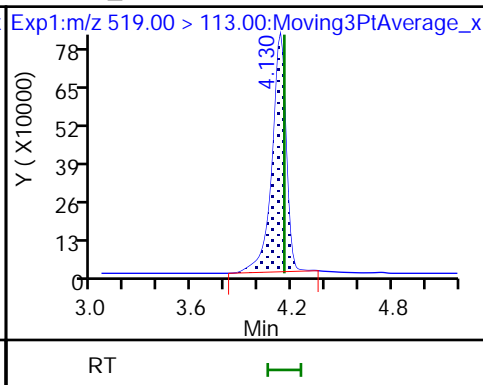
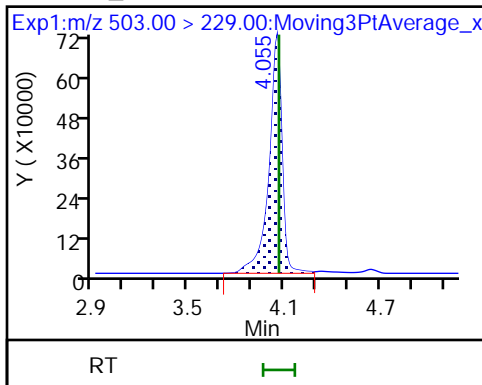
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

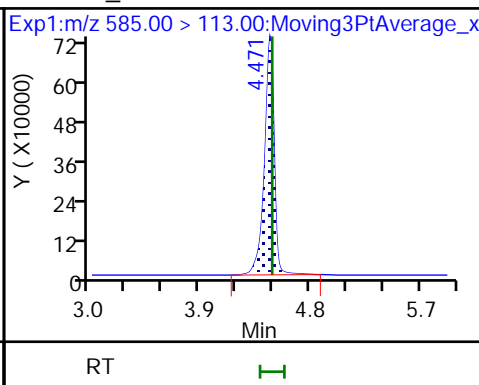
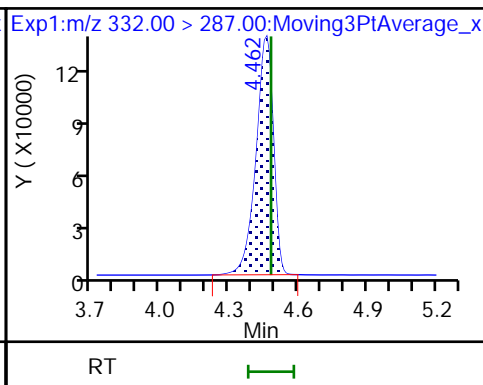
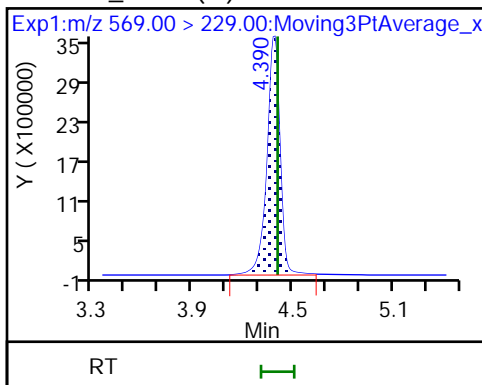
3 BFS_B3



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

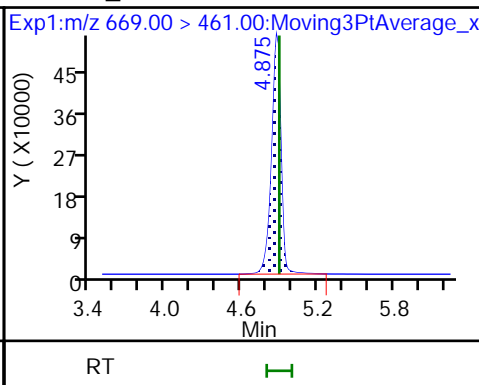
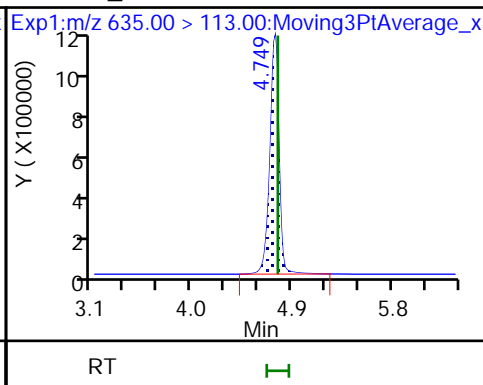
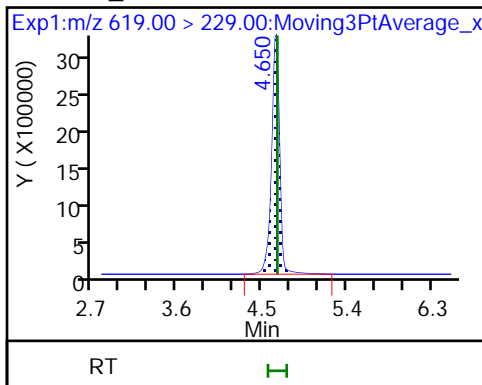
5 BFS_A4B



7 BFS_AB3

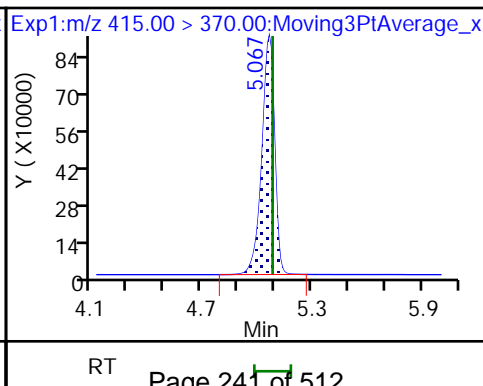
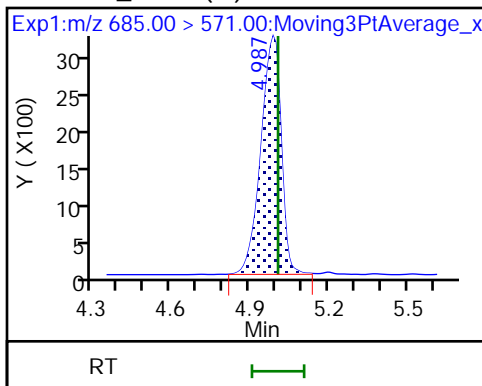
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

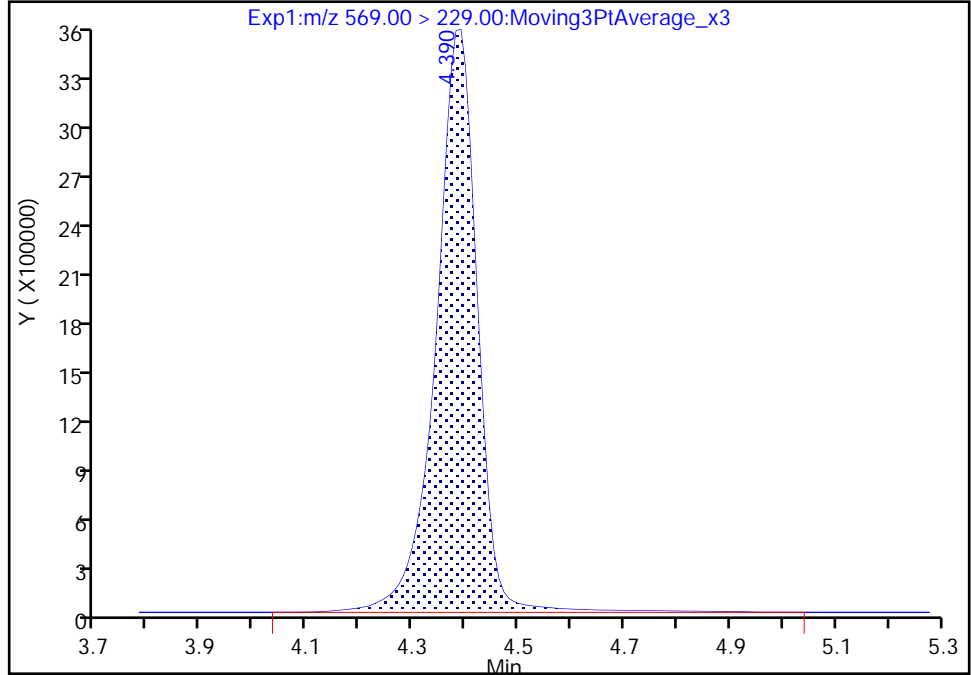
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Injection Date: 01-Jun-2022 19:36:20 Instrument ID: 30733
Lims ID: CCV 3_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 25
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

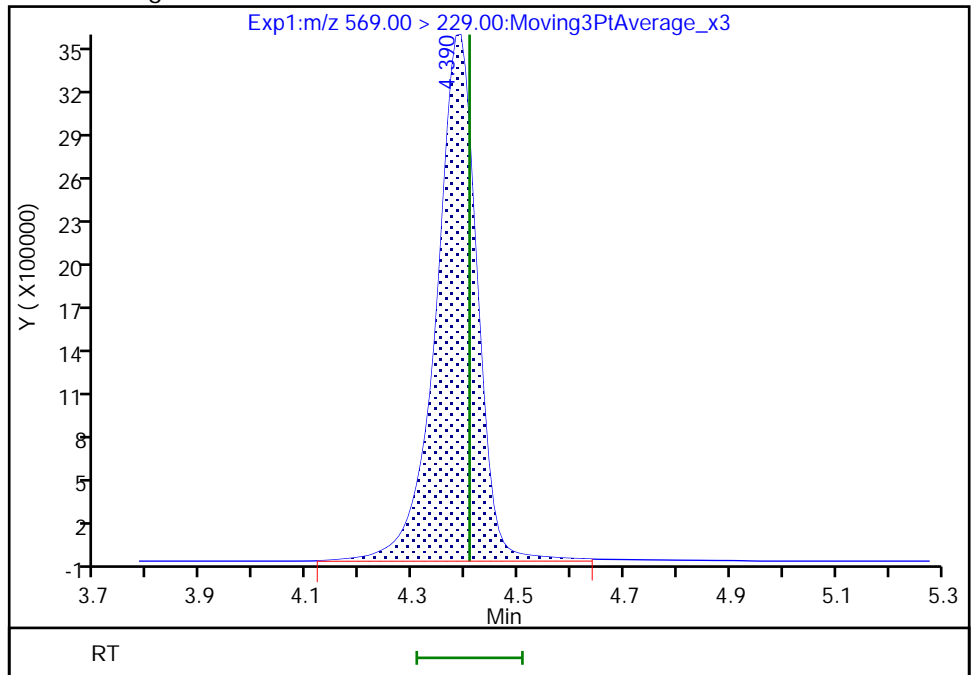
RT: 4.39
Area: 19189608
Amount: 70.433255
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 19067527
Amount: 69.970203
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:40:21
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

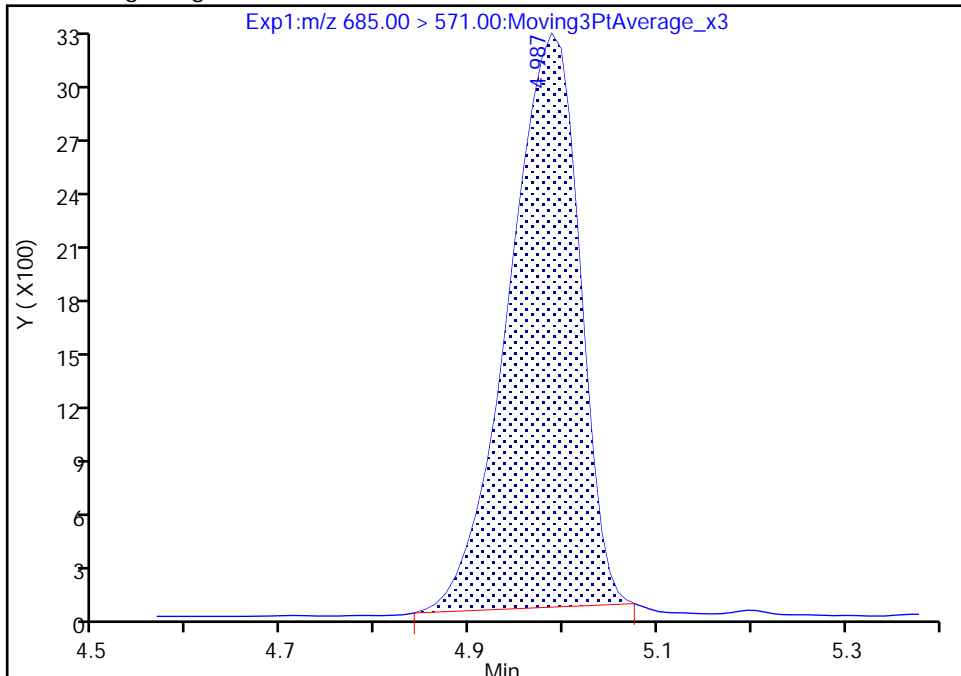
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-38.d
Injection Date: 01-Jun-2022 19:36:20 Instrument ID: 30733
Lims ID: CCV 3_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 25
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

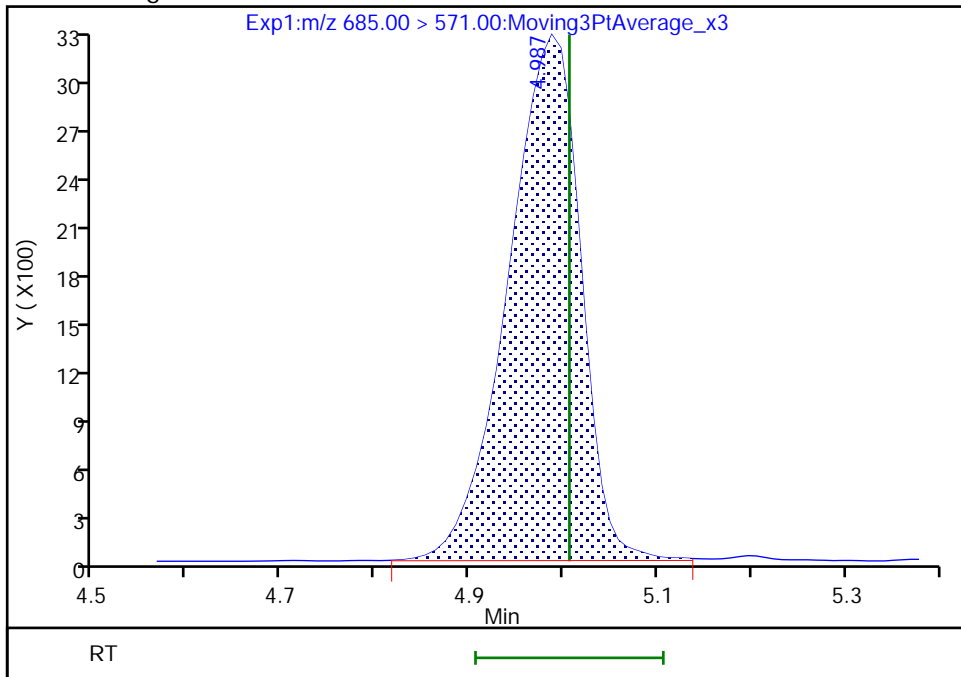
RT: 4.99
Area: 16922
Amount: 1.191817
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 17621
Amount: 1.241048
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:40:31
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 243 of 512

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/31 Calibration Date: 06/01/2022 20:53
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-44.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.313		1.69	1.78	-5.1	30.0
BFS_A3B	LID1F		3.524		1.91	1.99	-3.9	30.0
BFS_B3	Q2IDF		2.340		6.44	6.34	1.5	30.0
BFS_A2B2	Q2IDF		2.039		14.1	13.9	1.6	30.0
BFS_A4B	LID1F		5.422		1.19	1.10	8.4	30.0
BFS_AB3	Q2IDF		1.976		15.7	14.9	5.8	30.0
BFS_A3B2	LID1F		3.543		2.82	2.62	7.6	30.0
BFS_B4	LID1F		1.141		3.85	3.46	11.3	30.0
BFS_A2B3	LID1F		0.1048		0.269	0.262	2.8	30.0
13C3 HFPO-DA	Ave	0.1618	0.1659		5.13	5.00	2.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-44.d
 Lims ID: CCV 4_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 20:53:12 ALS Bottle#: 6 Worklist Smp#: 31
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-031
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:40:50

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.052	4.066	-0.014	0.907	912415	1.69	94.9	5074
2 BFS_A3B	519.00 > 113.00	4.139	4.154	-0.015	0.926	1084517	1.91	96.1	192
3 BFS_B3	553.00 > 345.00	4.287	4.307	-0.020	0.959	2293435	6.44	102	659
4 BFS_A2B2	569.00 > 229.00	4.396	4.407	-0.011	0.984	4375719	14.1	102	4426
D 6 13C3 HFPO-DA	332.00 > 287.00	4.468	4.481	-0.013	0.880	773020	5.13	103	2047
5 BFS_A4B	585.00 > 113.00	4.478	4.490	-0.012	1.002	922194	1.19	108	979
7 BFS_AB3	619.00 > 229.00	4.657	4.660	-0.003	1.042	4544949	15.7	106	3672
8 BFS_A3B2	635.00 > 113.00	4.748	4.772	-0.024	1.062	1434902	2.82	108	848
9 BFS_B4	669.00 > 461.00	4.885	4.897	-0.012	1.093	609899	3.85	111	785
10 BFS_A2B3	685.00 > 571.00	4.987	5.006	-0.019	1.116	4244	0.2693	103	125 M
* 11 13C2 PFOA	415.00 > 370.00	5.076	5.085	-0.009		4658508	5.00		2495 M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-44.d

Injection Date: 01-Jun-2022 20:53:12

Instrument ID: 30733

Lims ID: CCV_4_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 31

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

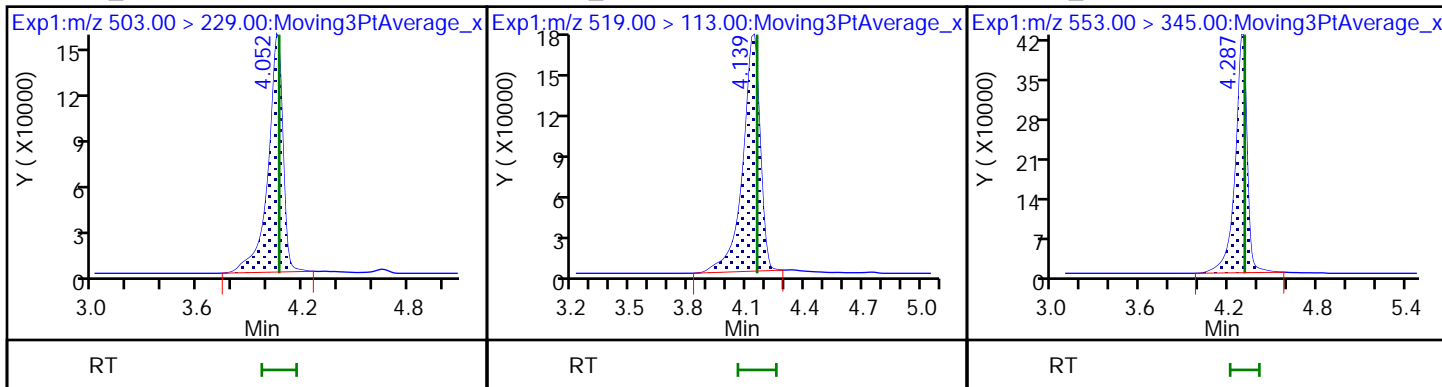
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

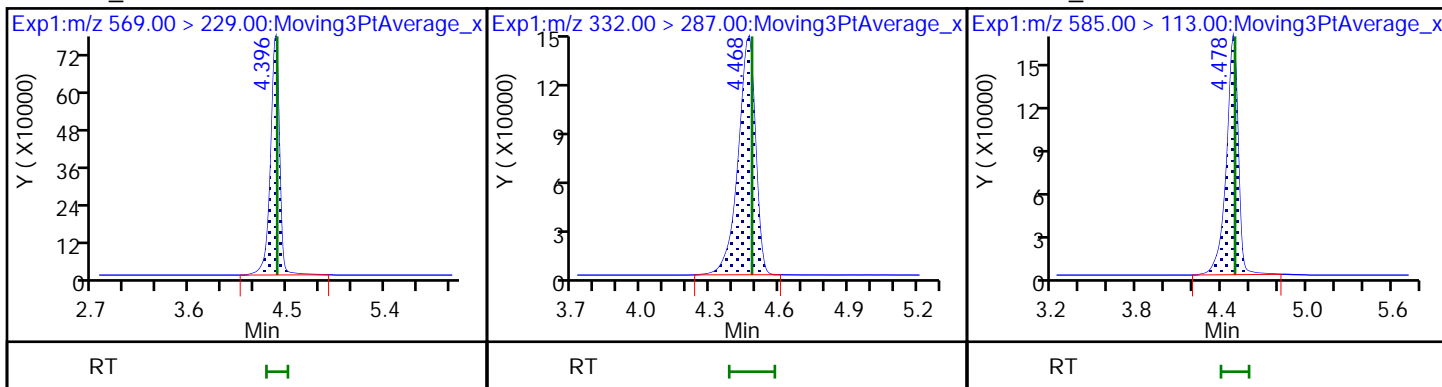
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

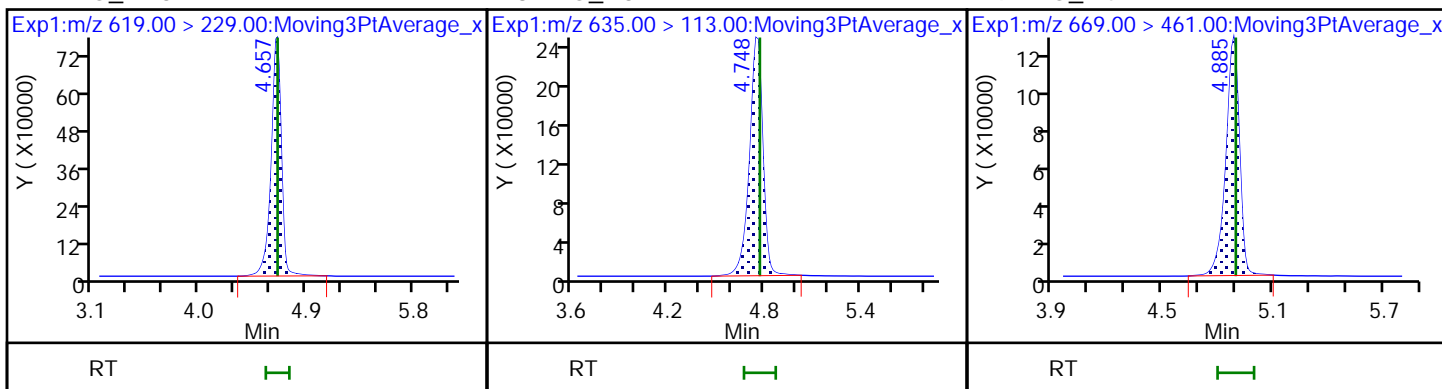
5 BFS_A4B



7 BFS_AB3

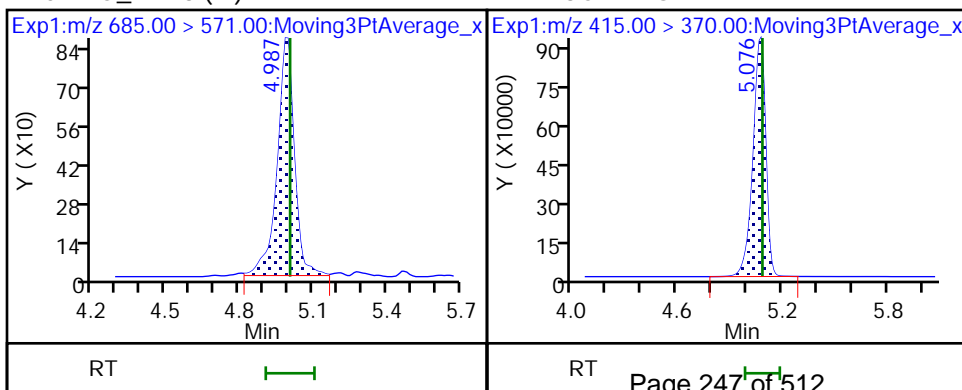
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

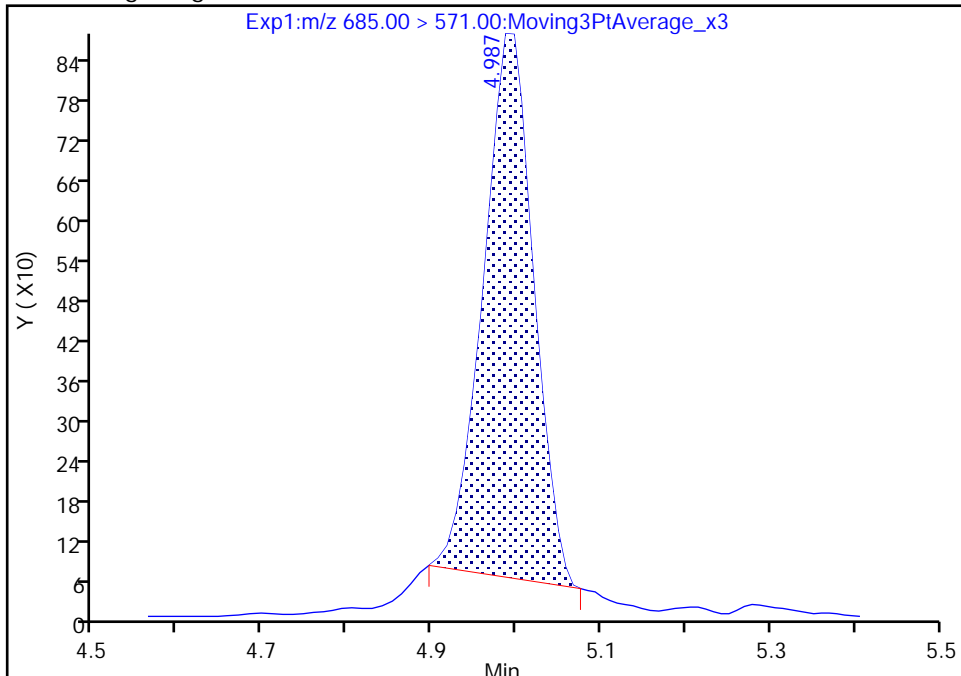
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Injection Date: 01-Jun-2022 20:53:12 Instrument ID: 30733
Lims ID: CCV 4_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 31
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

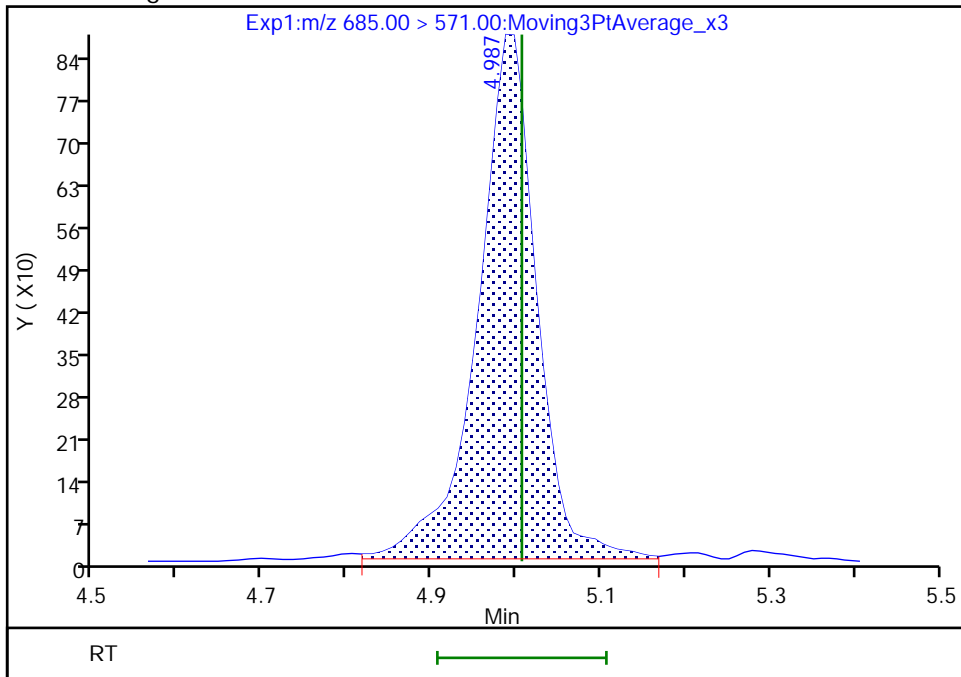
RT: 4.99
Area: 3402
Amount: 0.215906
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 4244
Amount: 0.269343
Amount Units: ng/ml

Manual Integration Results



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260981/40 Calibration Date: 06/01/2022 22:46
 Instrument ID: 30733 Calib Start Date: 06/01/2022 11:47
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 06/01/2022 13:42
 Lab File ID: 22JUN01BFS-53.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	LID1F		3.264		4.16	4.45	-6.5	30.0
BFS_A3B	LID1F		3.279		4.45	4.98	-10.5	30.0
BFS_B3	Q2IDF		2.217		15.3	15.8	-3.5	30.0
BFS_A2B2	Q2IDF		2.032		35.5	34.7	2.3	30.0
BFS_A4B	LID1F		5.228		2.87	2.75	4.5	30.0
BFS_AB3	Q2IDF		1.827		36.6	37.2	-1.5	30.0
BFS_A3B2	LID1F		3.407		6.78	6.55	3.5	30.0
BFS_B4	LID1F		1.072		9.04	8.64	4.5	30.0
BFS_A2B3	LID1F		0.1013		0.651	0.655	-0.6	30.0
13C3 HFPO-DA	Ave	0.1618	0.1600		4.94	5.00	-1.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-53.d
 Lims ID: CCV 5_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 22:46:41 ALS Bottle#: 7 Worklist Smp#: 40
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 5_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-040
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:41:26

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.056	4.066	-0.010	0.909	1985553	4.16	93.5	6448
2 BFS_A3B	519.00 > 113.00	4.131	4.154	-0.023	0.926	2229053	4.45	89.5	187
3 BFS_B3	553.00 > 345.00	4.291	4.307	-0.016	0.961	4800095	15.3	96.5	866 M
4 BFS_A2B2	569.00 > 229.00	4.399	4.407	-0.008	0.986	9634070	35.5	102	1046 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.463	4.481	-0.018	0.880	682984	4.94	98.9	1770
5 BFS_A4B	585.00 > 113.00	4.481	4.490	-0.009	1.004	1964256	2.87	105	2672
7 BFS_AB3	619.00 > 229.00	4.650	4.660	-0.010	1.042	9285280	36.6	98.5	179166
8 BFS_A3B2	635.00 > 113.00	4.753	4.772	-0.019	1.065	3047482	6.78	103	1111
9 BFS_B4	669.00 > 461.00	4.879	4.897	-0.018	1.093	1265485	9.04	105	891
10 BFS_A2B3	685.00 > 571.00	4.991	5.006	-0.015	1.118	9061	0.6509	99.4	192 M
* 11 13C2 PFOA	415.00 > 370.00	5.069	5.085	-0.016		4267794	5.00		3124

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-53.d

Injection Date: 01-Jun-2022 22:46:41

Instrument ID: 30733

Lims ID: CCV 5_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 40

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

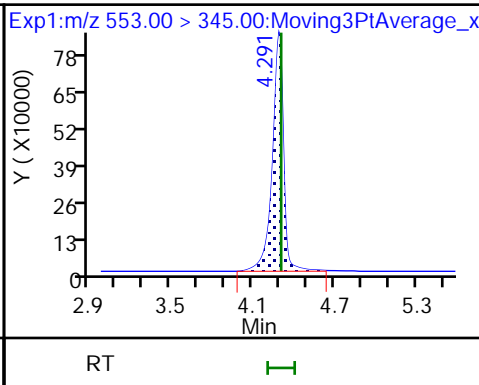
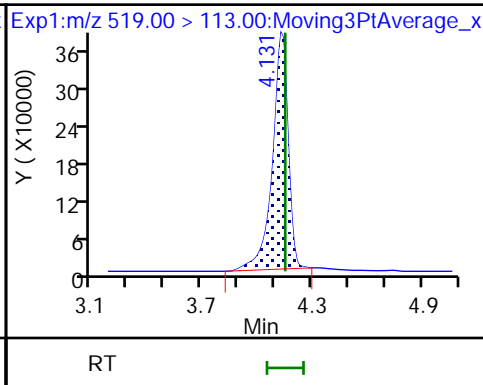
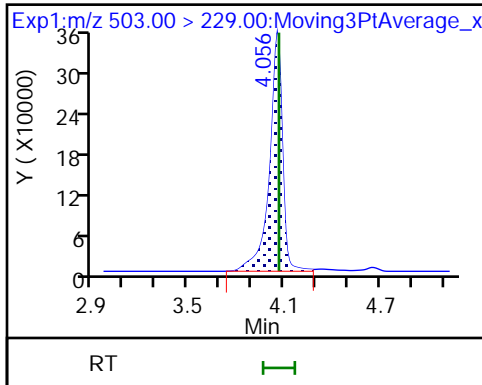
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

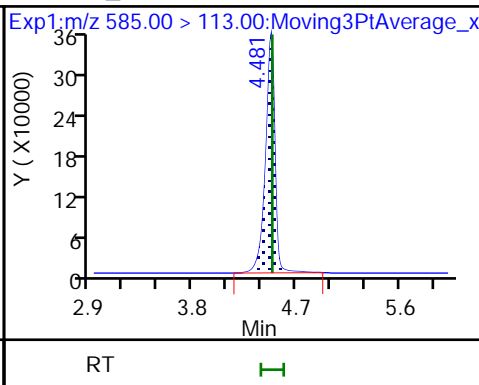
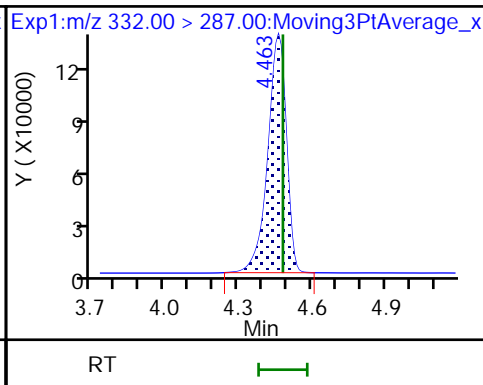
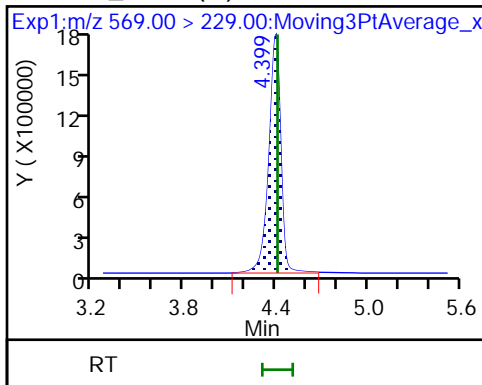
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

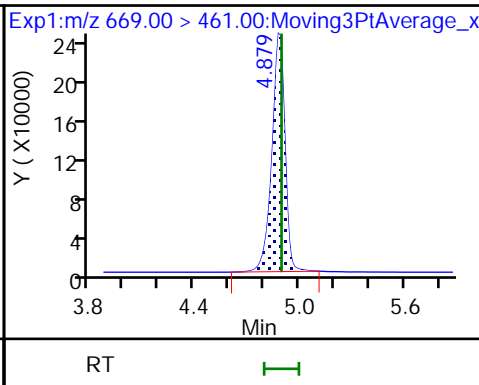
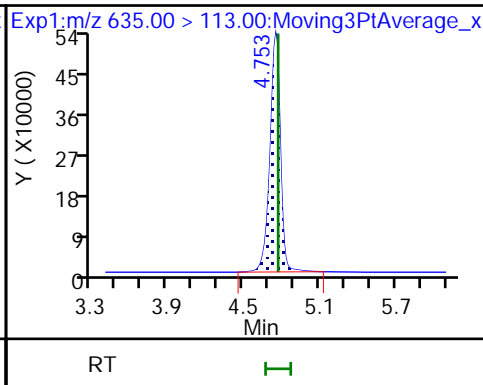
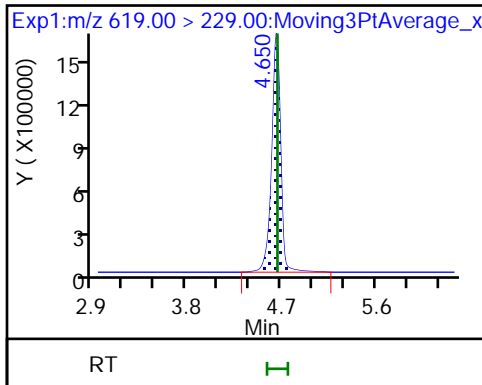
5 BFS_A4B



7 BFS_AB3

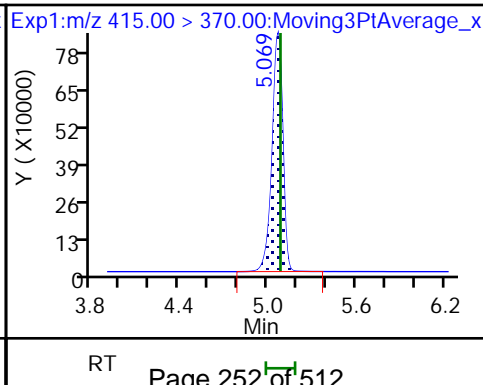
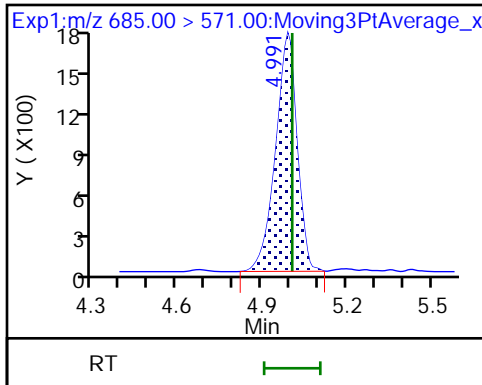
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

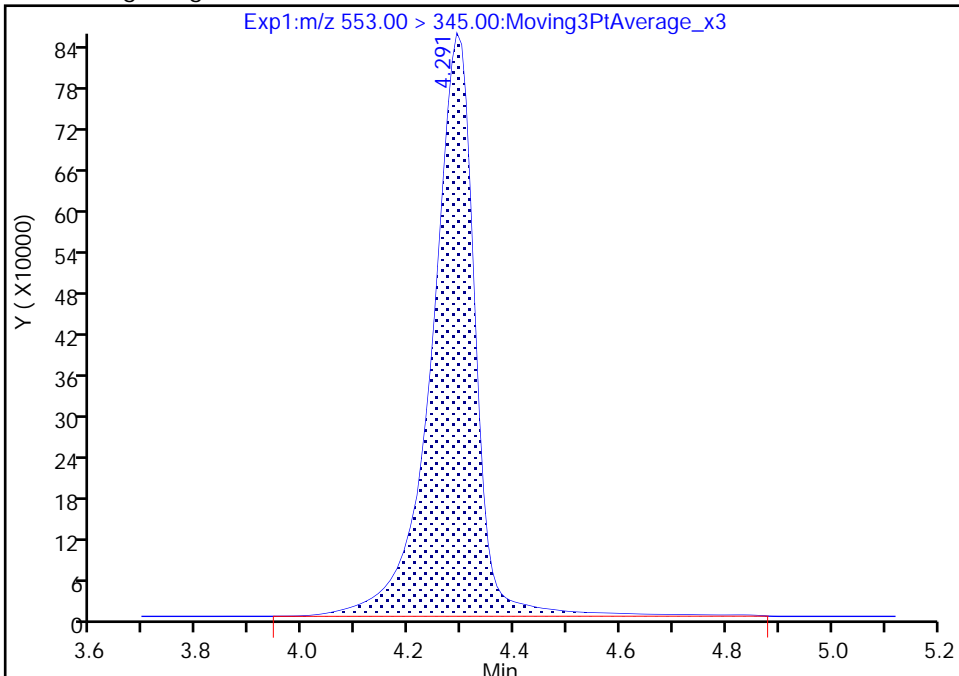
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-53.d
Injection Date: 01-Jun-2022 22:46:41 Instrument ID: 30733
Lims ID: CCV 5_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 40
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

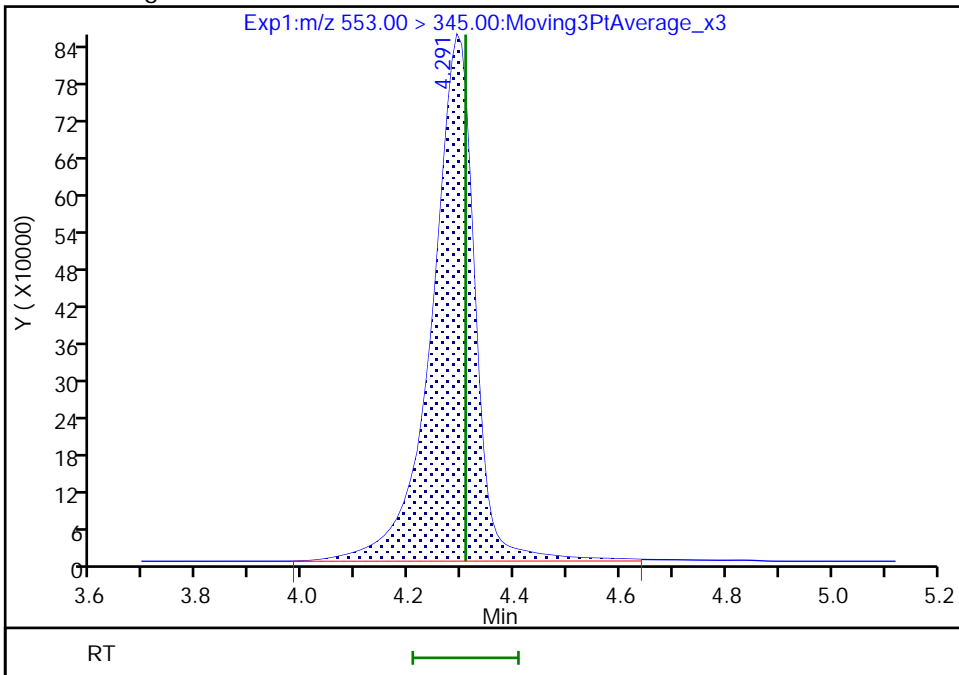
RT: 4.29
Area: 4827011
Amount: 15.379590
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 4800095
Amount: 15.293351
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:41:08
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 253 of 512

Eurofins Lancaster Laboratories Environment Testing, LLC

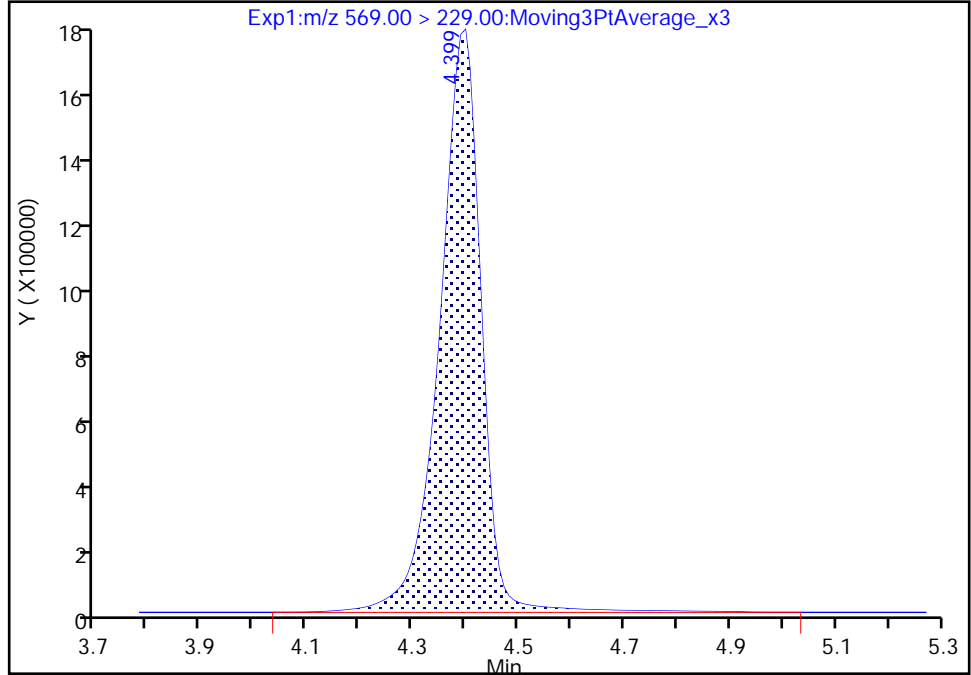
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Injection Date: 01-Jun-2022 22:46:41 Instrument ID: 30733
Lims ID: CCV 5_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 40
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

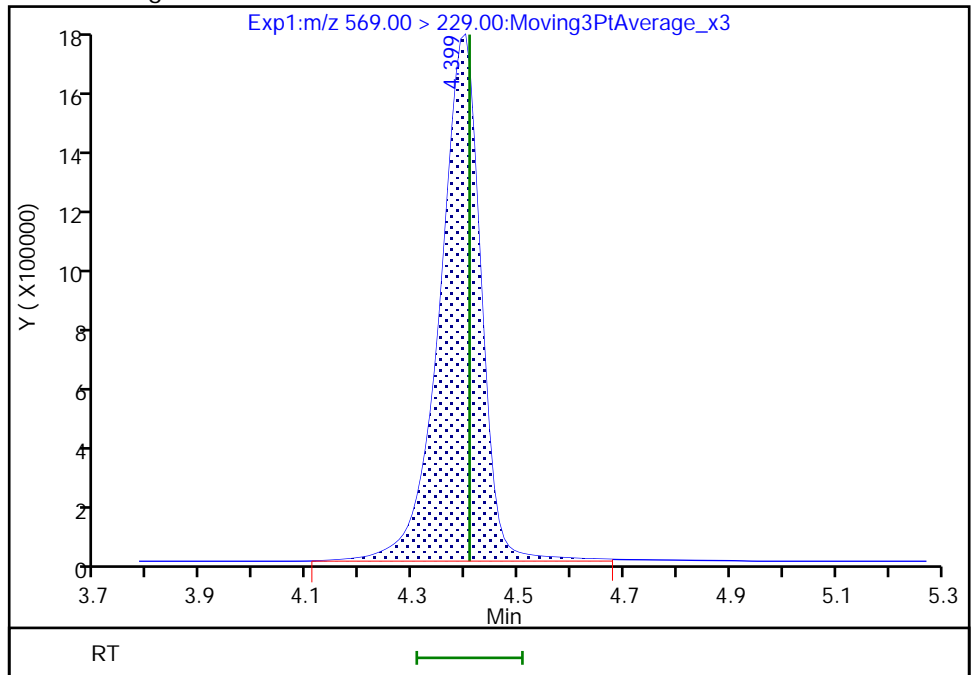
RT: 4.40
Area: 9706289
Amount: 35.761601
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 9634070
Amount: 35.491155
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:41:14
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

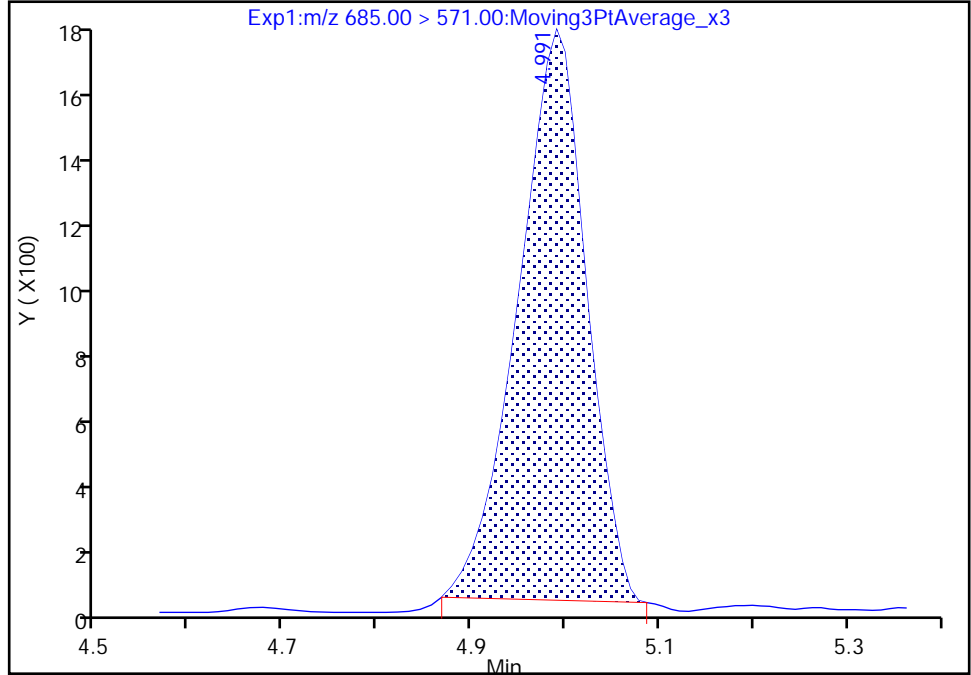
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Injection Date: 01-Jun-2022 22:46:41 Instrument ID: 30733
Lims ID: CCV 5_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 40
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

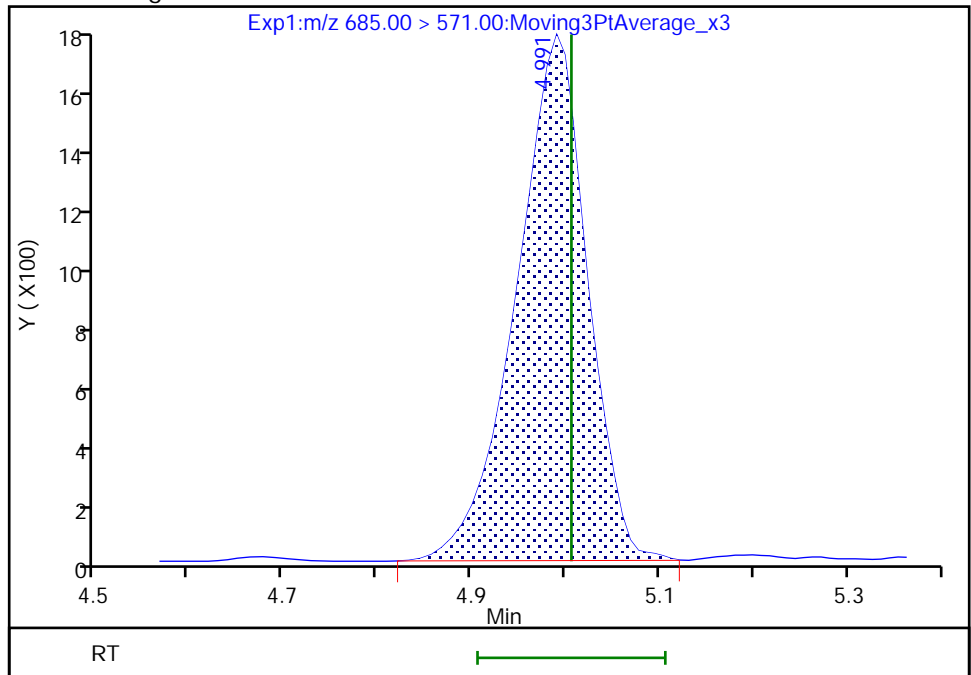
RT: 4.99
Area: 8537
Amount: 0.613220
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 9061
Amount: 0.650859
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:41:21
Audit Action: Manually Integrated

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-256031/1-A

Matrix: Water Lab File ID: 22JUN01BFS-15.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 14:46

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-15.d
 Lims ID: MB 410-256031/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2022 14:46:18 ALS Bottle#: 13 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-256031/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:41:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA									
332.00 > 287.00	4.472	4.481	-0.009	0.881	707216	4.71	94.2	2532	
* 11 13C2 PFOA									
415.00 > 370.00	5.078	5.085	-0.007		4638761	5.00		2979	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-15.d

Injection Date: 01-Jun-2022 14:46:18

Instrument ID: 30733

Lims ID: MB 410-256031/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

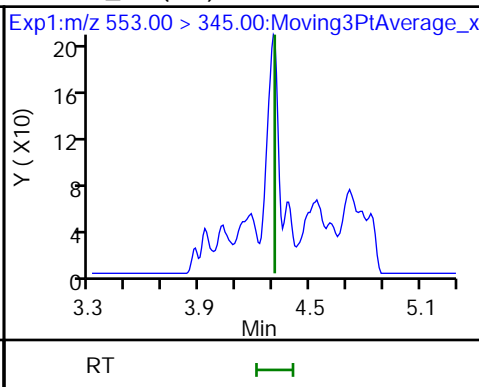
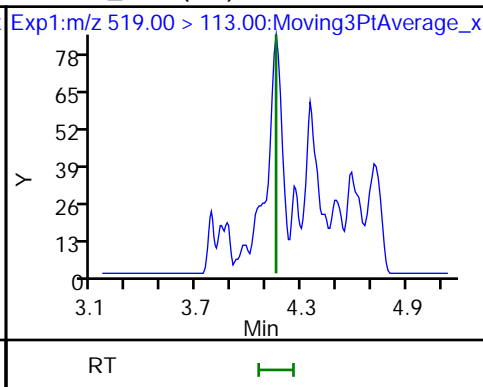
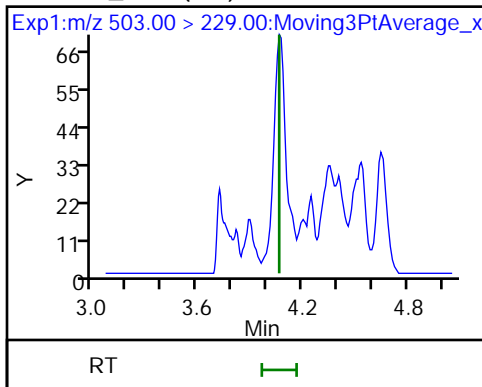
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

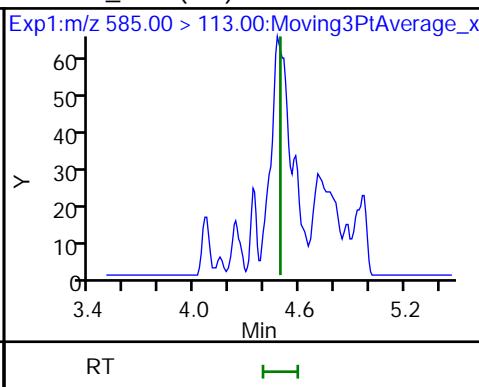
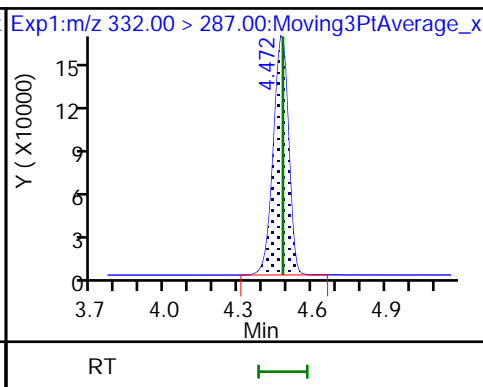
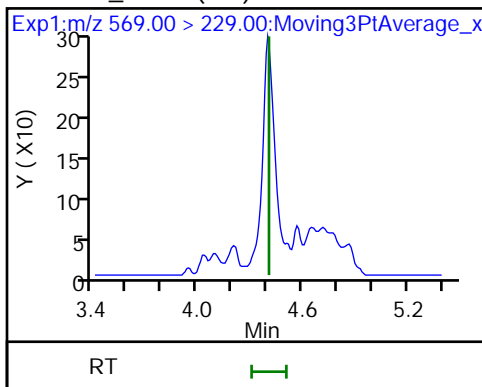
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

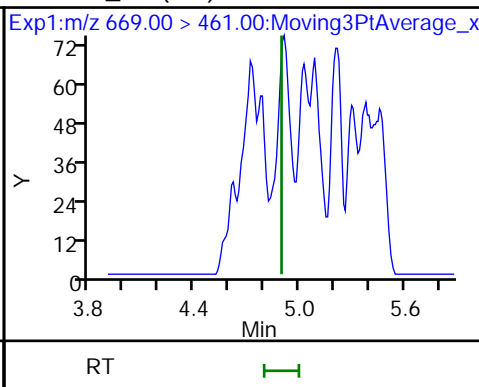
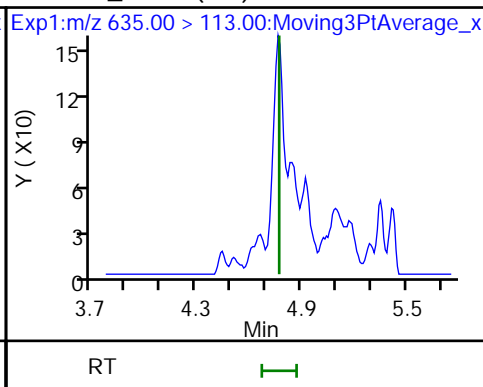
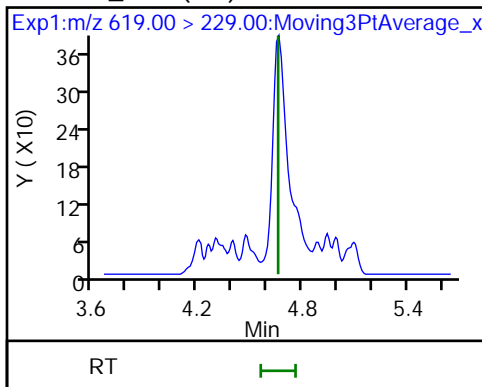
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

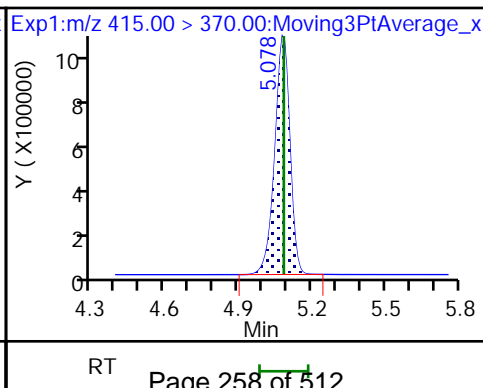
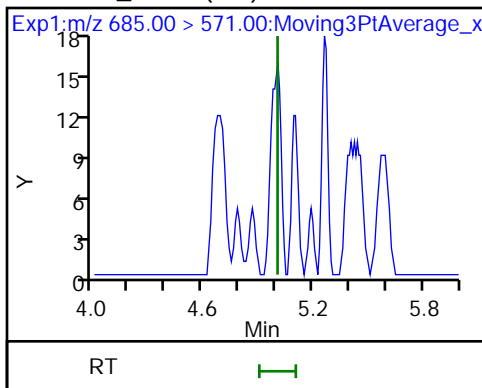
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-259819/1-A

Matrix: Water Lab File ID: 22JUN01BFS-45.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/27/2022 13:24

Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 21:05

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	117		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-45.d
 Lims ID: MB 410-259819/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2022 21:05:49 ALS Bottle#: 37 Worklist Smp#: 32
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-259819/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-032
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:48:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.469 4.481 -0.012 0.881 763845 5.87 117 3300
 * 11 13C2 PFOA
 415.00 > 370.00 5.075 5.085 -0.010 4022497 5.00 3192

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00325 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-45.d

Injection Date: 01-Jun-2022 21:05:49

Instrument ID: 30733

Lims ID: MB 410-259819/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 37

Worklist Smp#: 32

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

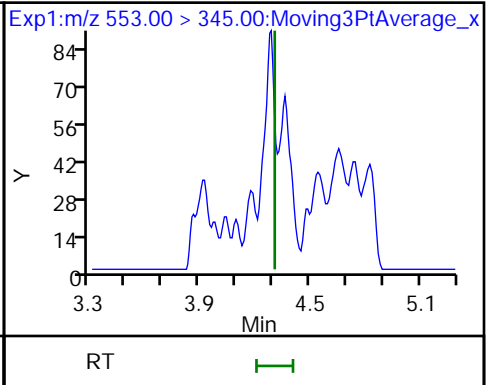
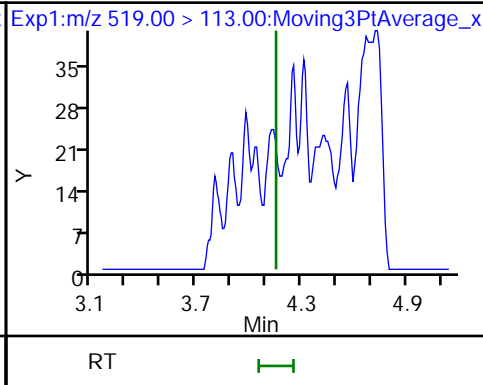
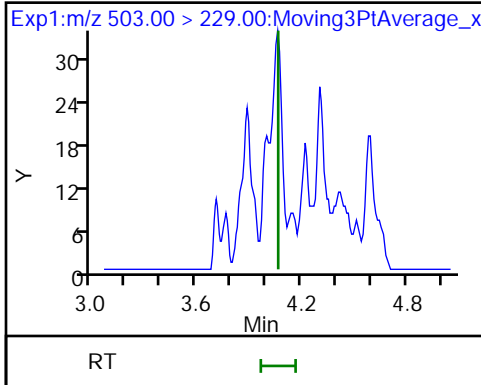
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

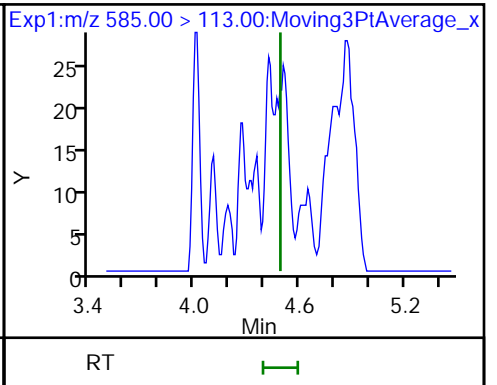
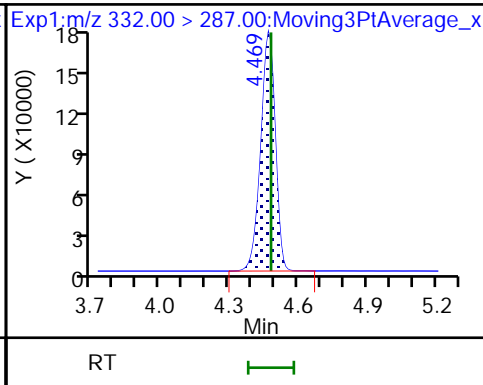
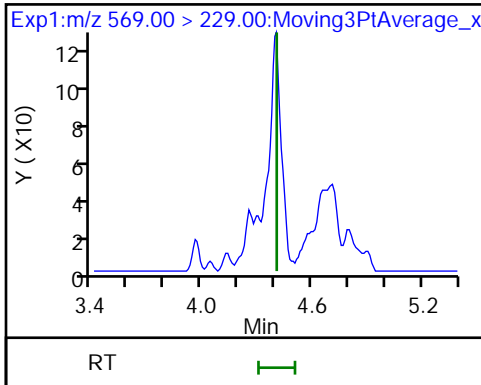
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

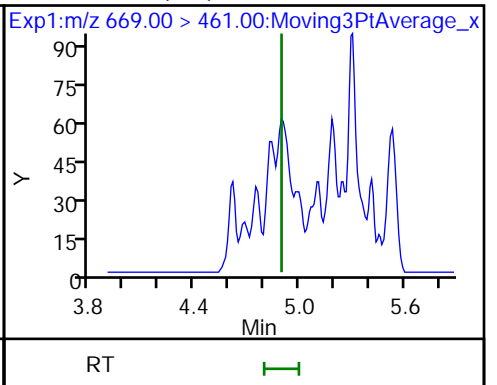
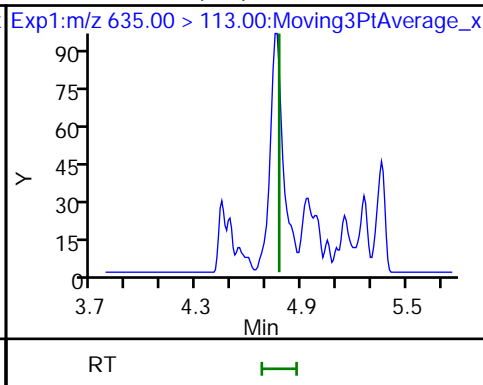
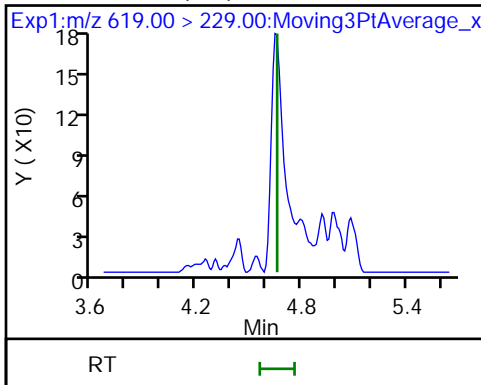
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

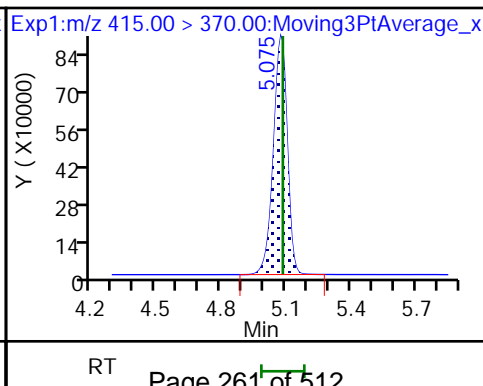
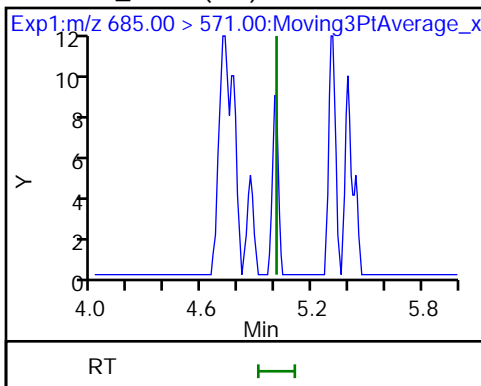
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-260772/11

Matrix: Water Lab File ID: 22JUN01BFS-11.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 06/01/2022 13:55

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260772 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.247		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	0.268		0.025	0.013
STL02881	BFS_B3	0.116		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	79		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 01-Jun-2022 13:55:50 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0058484-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:29:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:27:24
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
3 BFS_B3									M
553.00 > 345.00	4.299	4.307	-0.008	0.961	29693	0.1158		38.9	M
4 BFS_A2B2									M
569.00 > 229.00	4.399	4.407	-0.008	0.984	55323	0.2469		64.4	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.472	4.481	-0.009	0.881	554895	3.93	78.5	1739	
7 BFS_AB3									M
619.00 > 229.00	4.664	4.660	0.004	1.043	55923	0.2684		52.3	M
* 11 13C2 PFOA									
415.00 > 370.00	5.077	5.085	-0.008		4367531	5.00		2587	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00325 Amount Added: 50.00 Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d

Injection Date: 01-Jun-2022 13:55:50

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

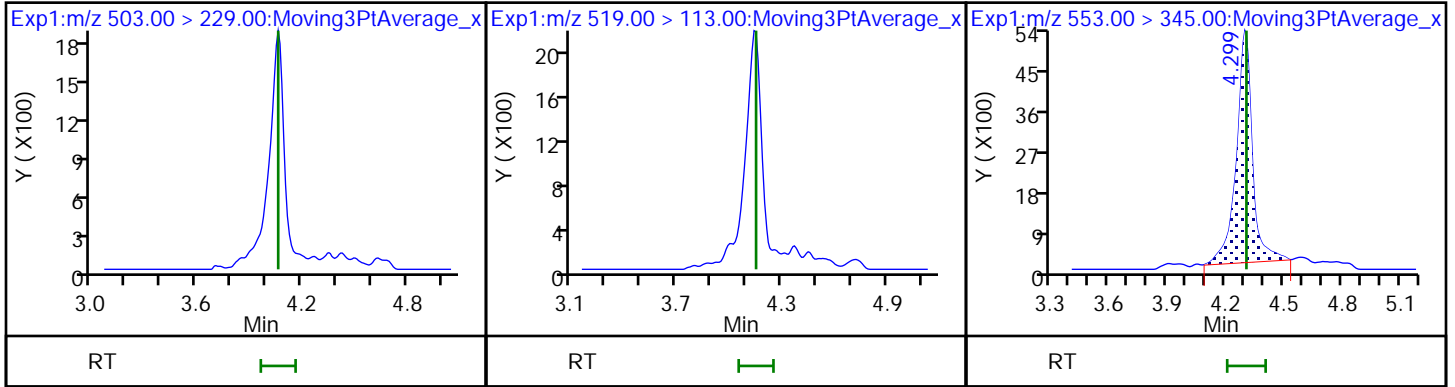
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

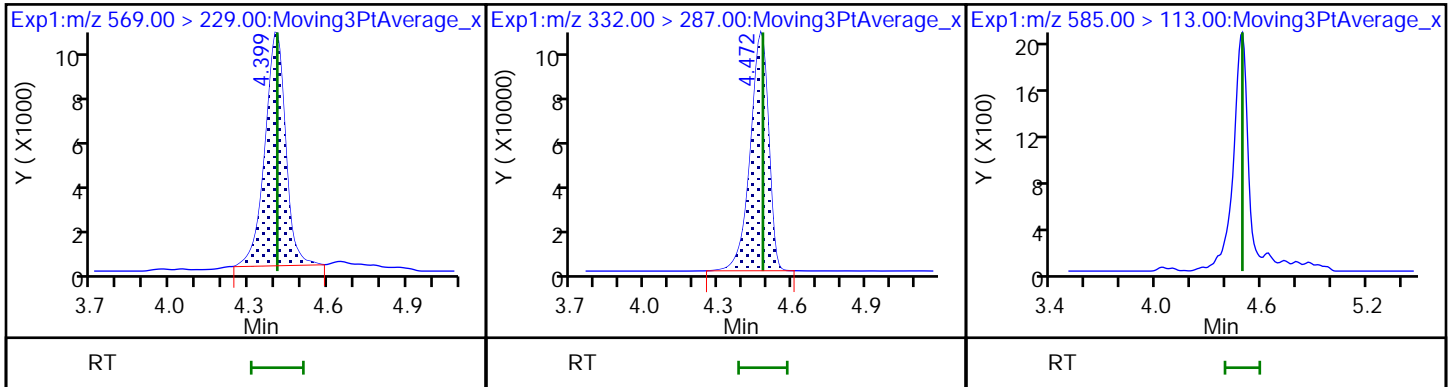
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

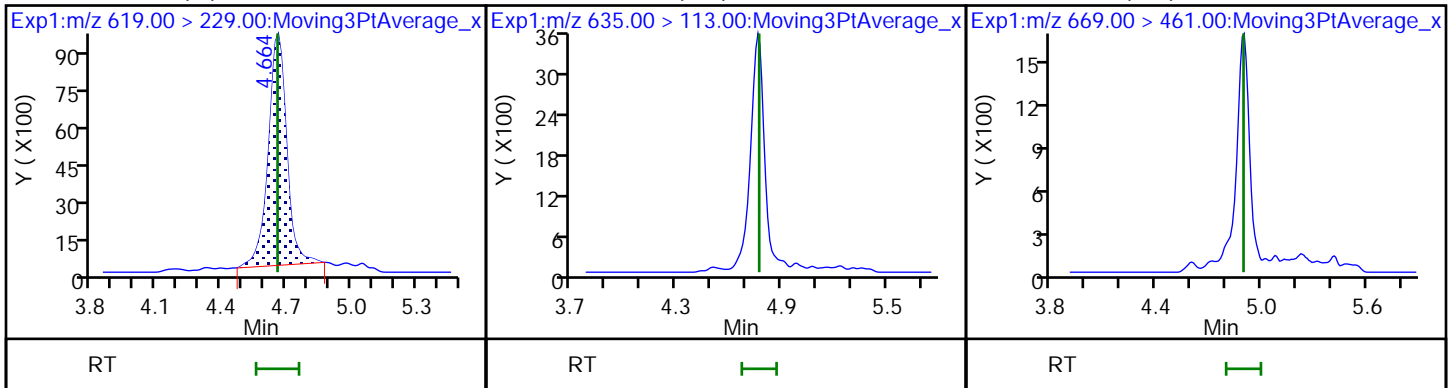
5 BFS_A4B (ND)



7 BFS_AB3 (M)

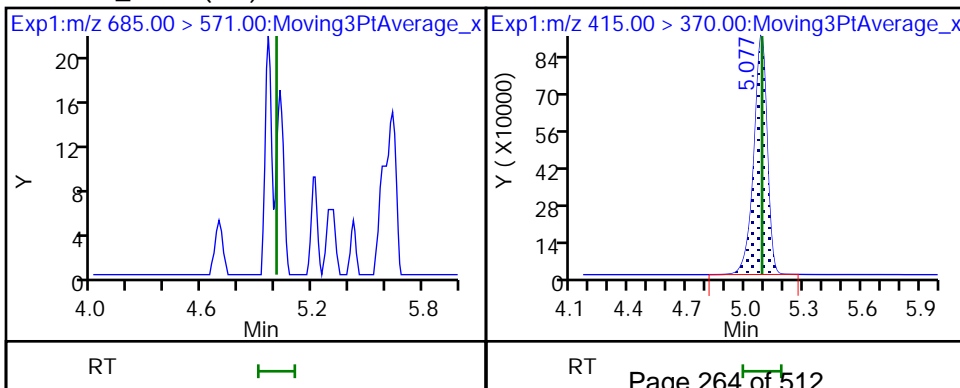
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

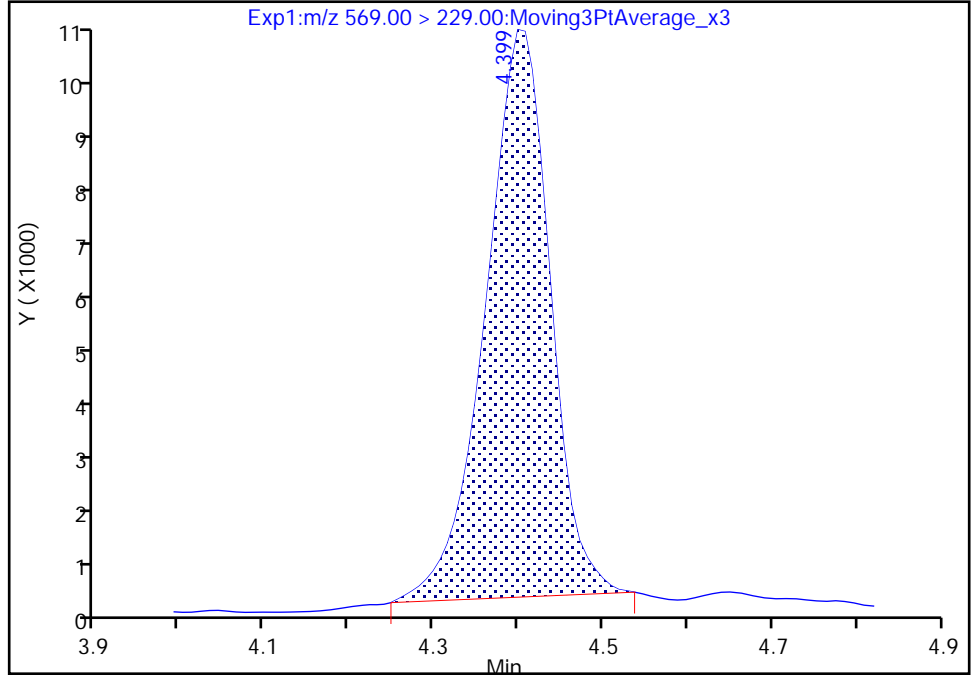
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-11.d
Injection Date: 01-Jun-2022 13:55:50 Instrument ID: 30733
Lims ID: ICB
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 1 Worklist Smp#: 11
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

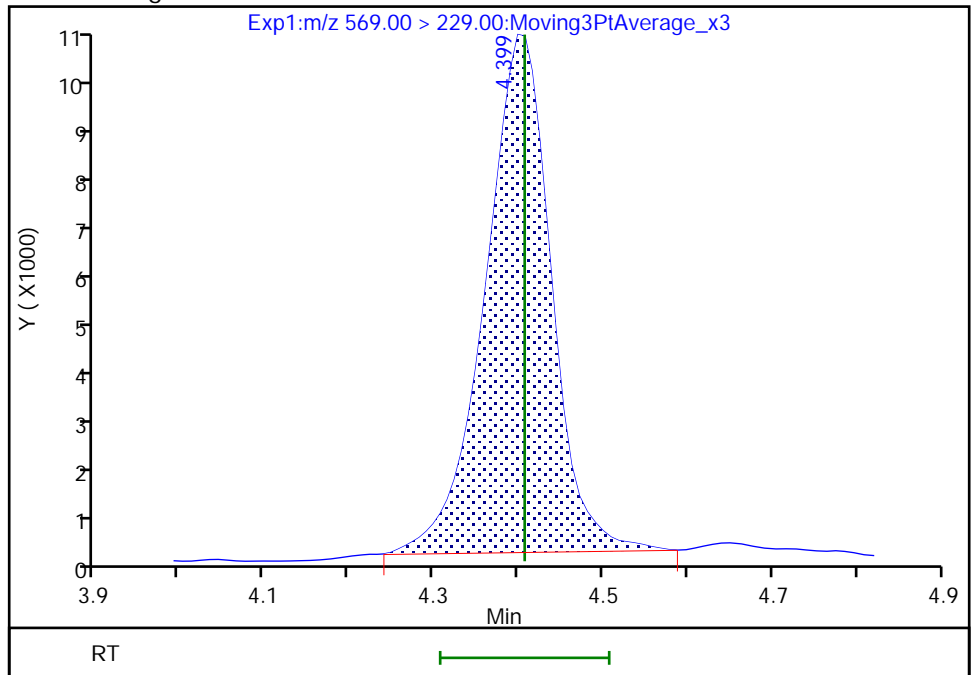
RT: 4.40
Area: 53415
Amount: 0.238379
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 55323
Amount: 0.246895
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:08
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

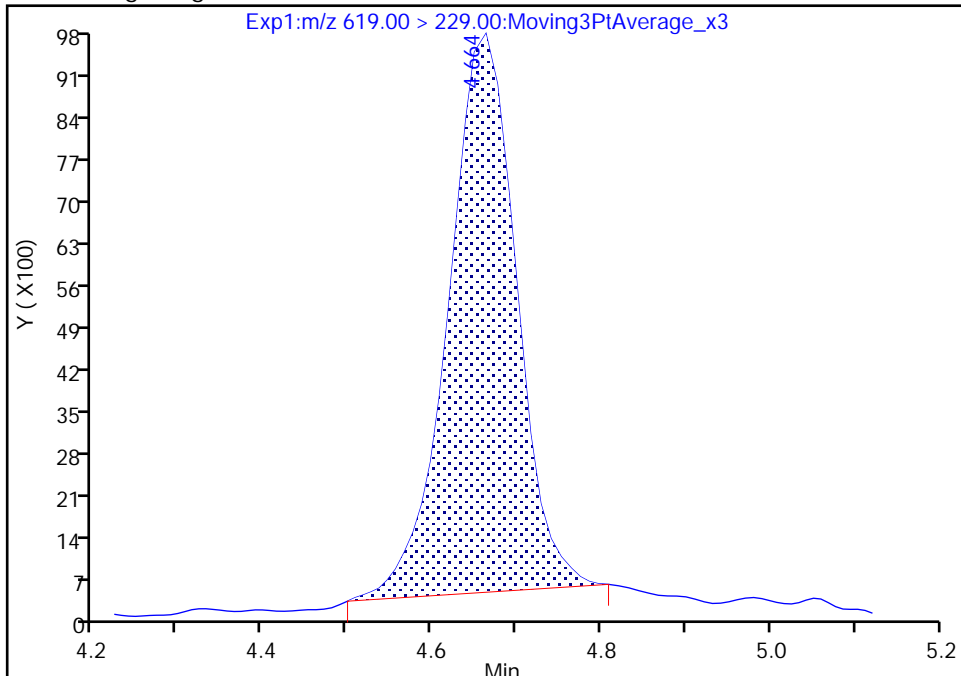
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Injection Date: 01-Jun-2022 13:55:50 Instrument ID: 30733
Lims ID: ICB
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 1 Worklist Smp#: 11
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

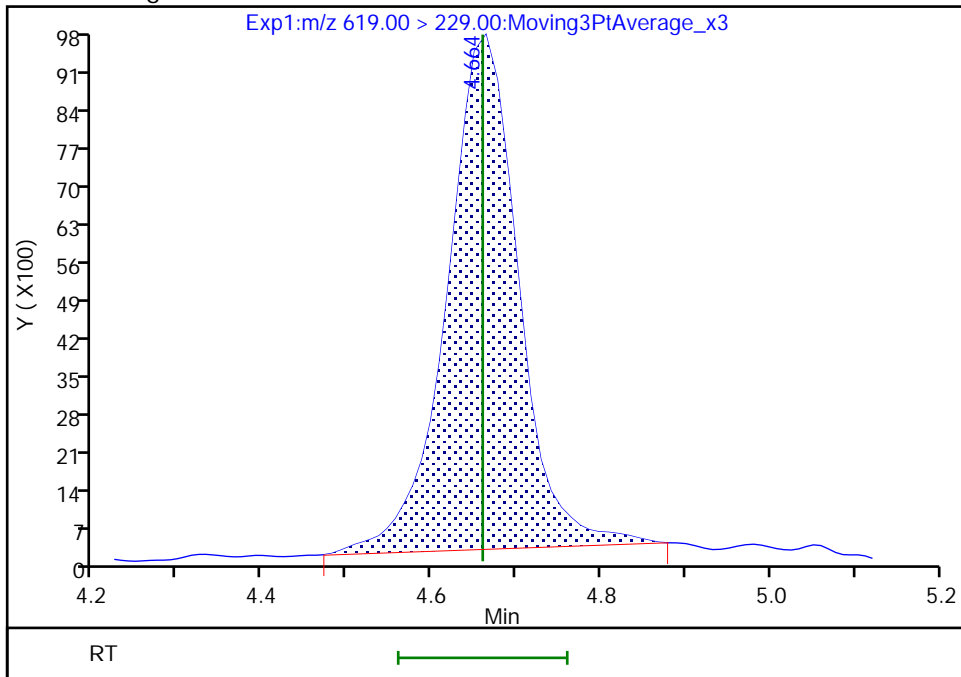
RT: 4.66
Area: 52034
Amount: 0.249765
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 55923
Amount: 0.268434
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 02-Jun-2022 06:27:17
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 266 of 512

Eurofins Lancaster Laboratories Environment Testing, LLC

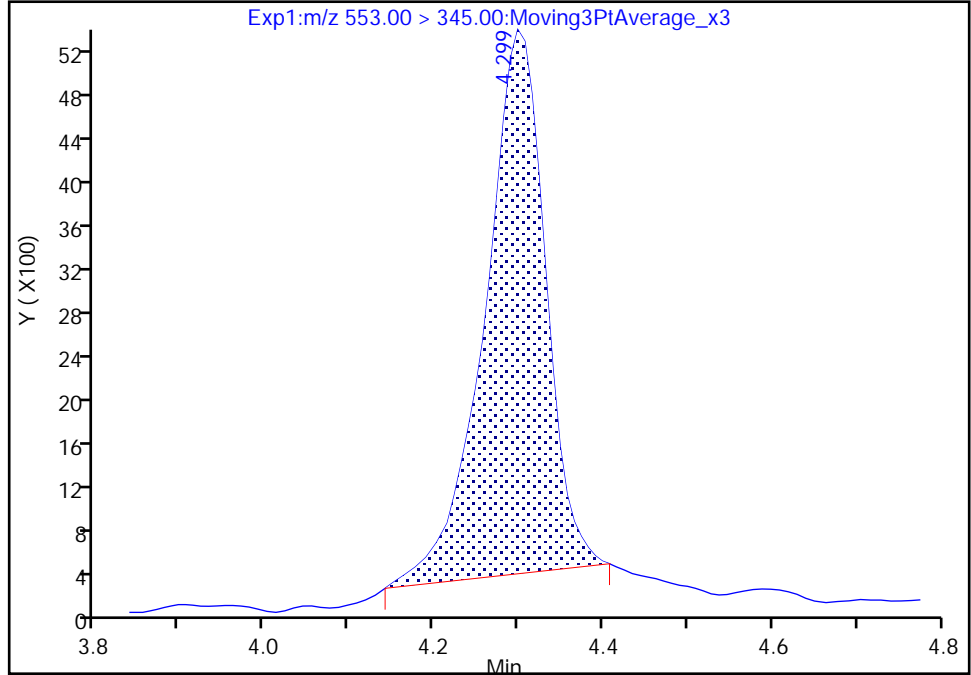
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Injection Date: 01-Jun-2022 13:55:50 Instrument ID: 30733
Lims ID: ICB
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 1 Worklist Smp#: 11
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

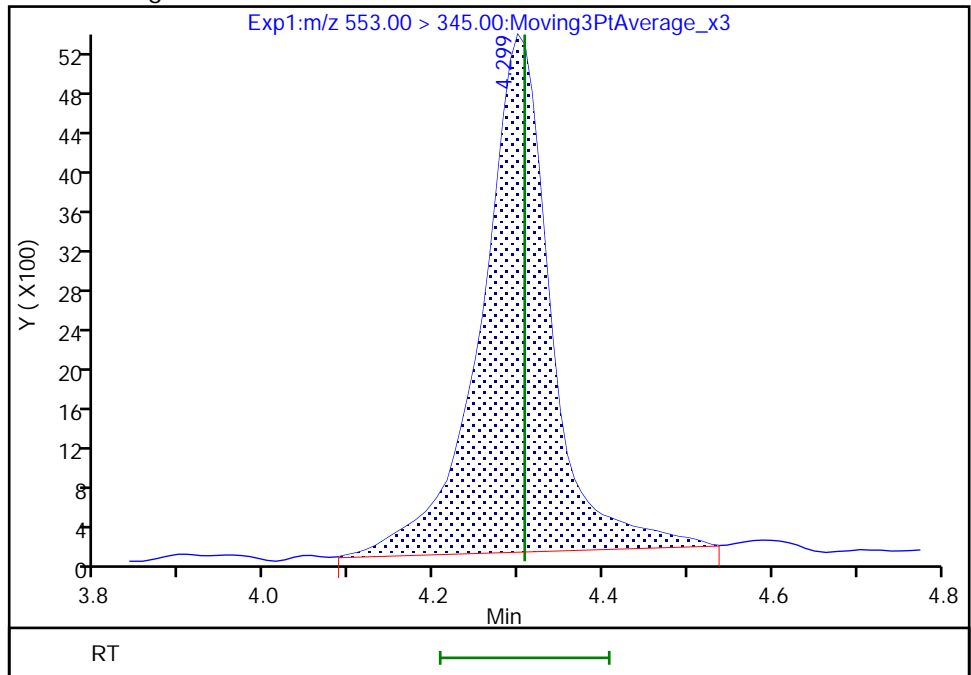
RT: 4.30
Area: 24413
Amount: 0.103256
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 29693
Amount: 0.115801
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-256031/2-A

Matrix: Water Lab File ID: 22JUN01BFS-16.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 14:58

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	289		1.4	0.40
STL02887	BFS_A2B3	5.59		1.1	0.40
STL02880	BFS_A3B	39.7		0.60	0.20
STL02885	BFS_A3B2	72.5		0.80	0.20
STL02883	BFS_A4B	23.9		0.40	0.20
STL02879	BFS_AB2	35.9		0.60	0.080
STL02884	BFS_AB3	329		1.5	0.40
STL02881	BFS_B3	138		0.70	0.30
STL02886	BFS_B4	75.4		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	81		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-16.d
 Lims ID: LCS 410-256031/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2022 14:58:55 ALS Bottle#: 14 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-256031/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:41 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:42:38
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.066	4.066	0.0	0.909	4254434	8.98	112	15809
2 BFS_A3B	519.00 > 113.00	4.142	4.154	-0.012	0.926	4938887	9.93	111	549
3 BFS_B3	553.00 > 345.00	4.299	4.307	-0.008	0.961	10668636	34.5	121	11772
4 BFS_A2B2	569.00 > 229.00	4.399	4.407	-0.008	0.984	19124599	72.1	115	2002
D 6 13C3 HFPO-DA	332.00 > 287.00	4.471	4.481	-0.010	0.880	678318	4.06	81.2	2720
5 BFS_A4B	585.00 > 113.00	4.490	4.490	0.0	1.004	4051656	5.97	121	6439
7 BFS_AB3	619.00 > 229.00	4.660	4.660	0.0	1.042	20361323	82.1	123	11726
8 BFS_A3B2	635.00 > 113.00	4.761	4.772	-0.011	1.065	8100842	18.1	154	3771
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.095	2623178	18.9	121	2333
10 BFS_A2B3	685.00 > 571.00	5.006	5.006	0.0	1.119	19326	1.40	119	572 M
* 11 13C2 PFOA	415.00 > 370.00	5.084	5.085	-0.001		5159877	5.00		4258 M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-16.d

Injection Date: 01-Jun-2022 14:58:55

Instrument ID: 30733

Lims ID: LCS 410-256031/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

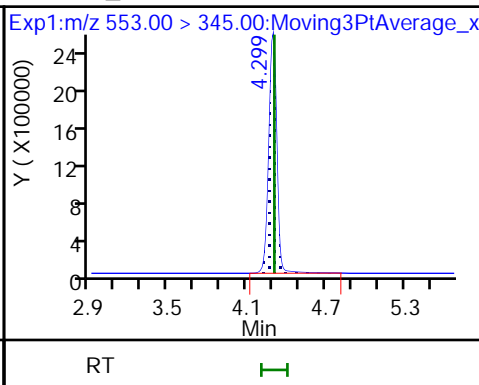
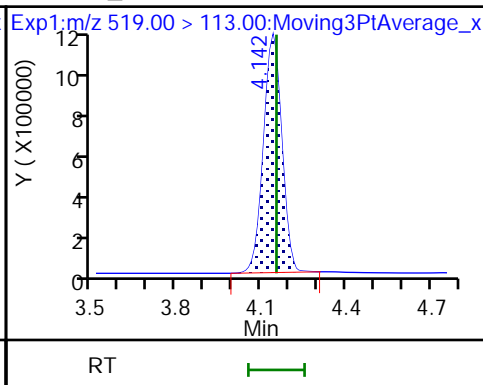
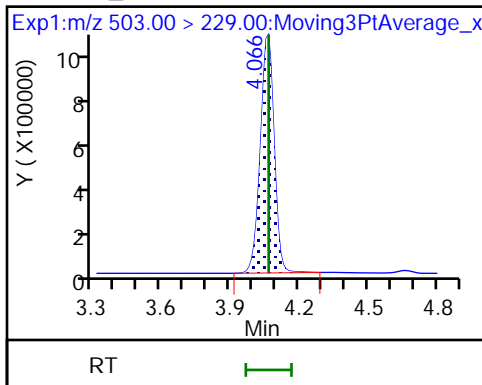
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

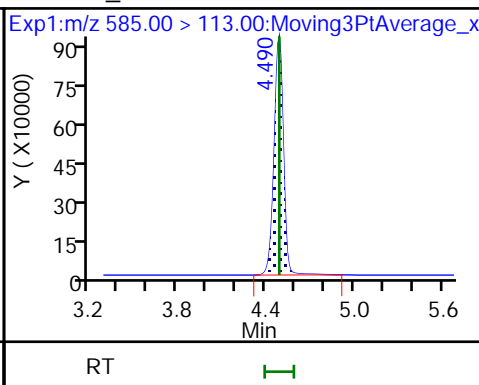
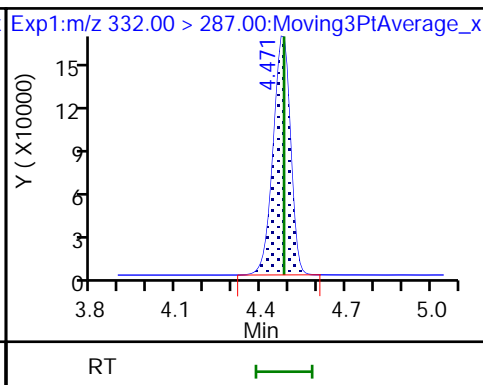
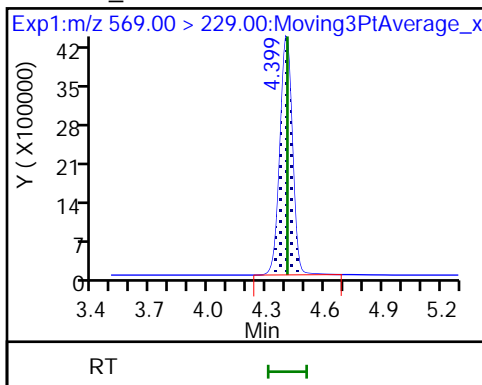
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

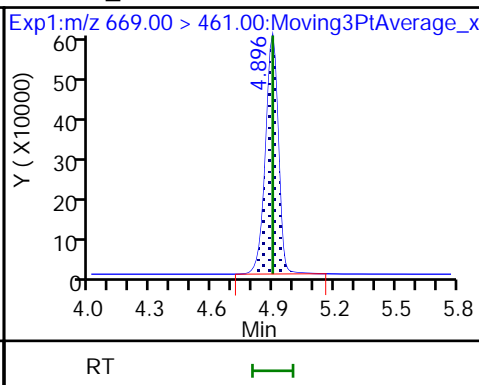
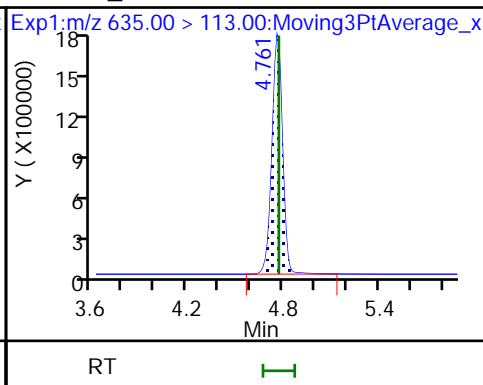
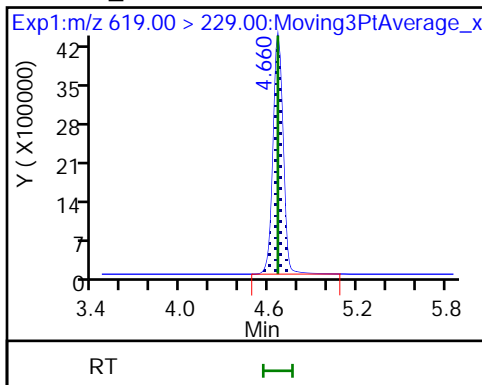
5 BFS_A4B



7 BFS_AB3

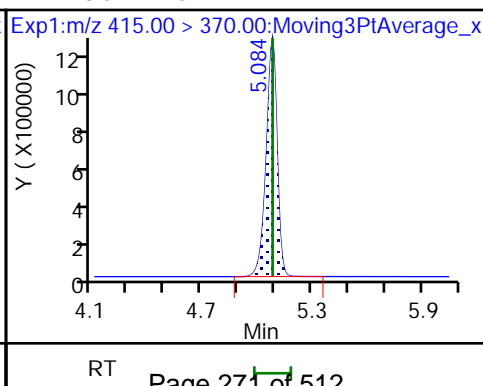
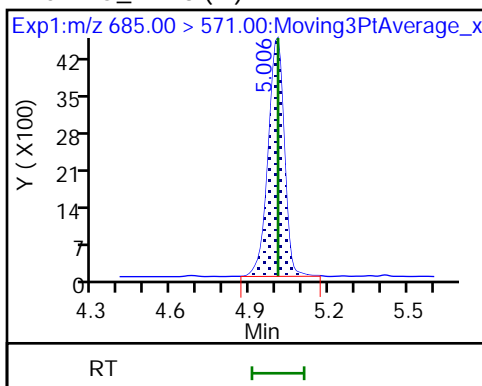
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

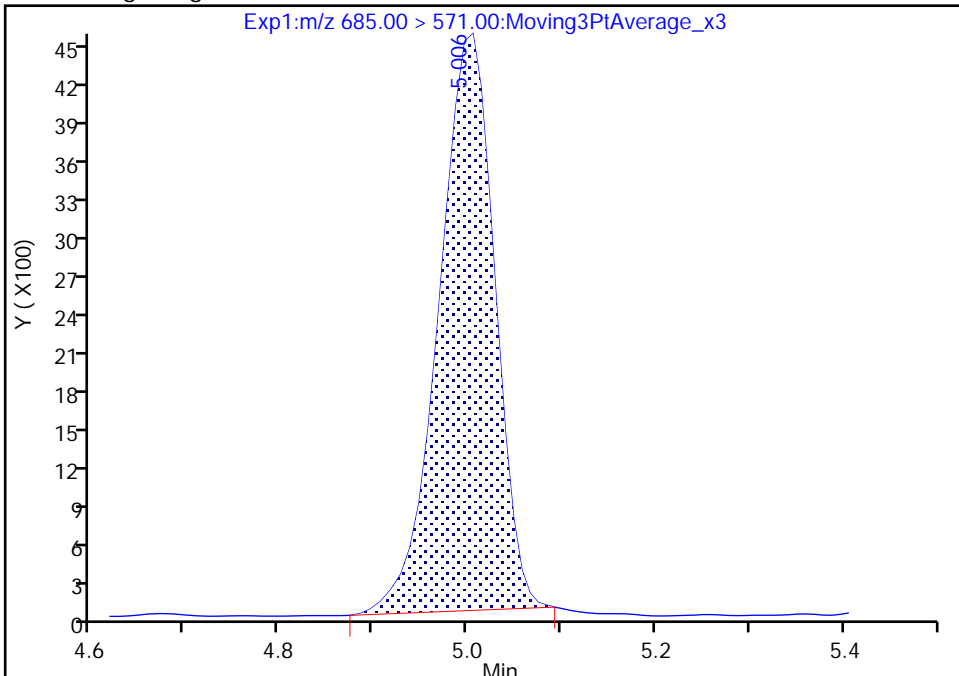
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-16.d
Injection Date: 01-Jun-2022 14:58:55 Instrument ID: 30733
Lims ID: LCS 410-256031/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 3
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

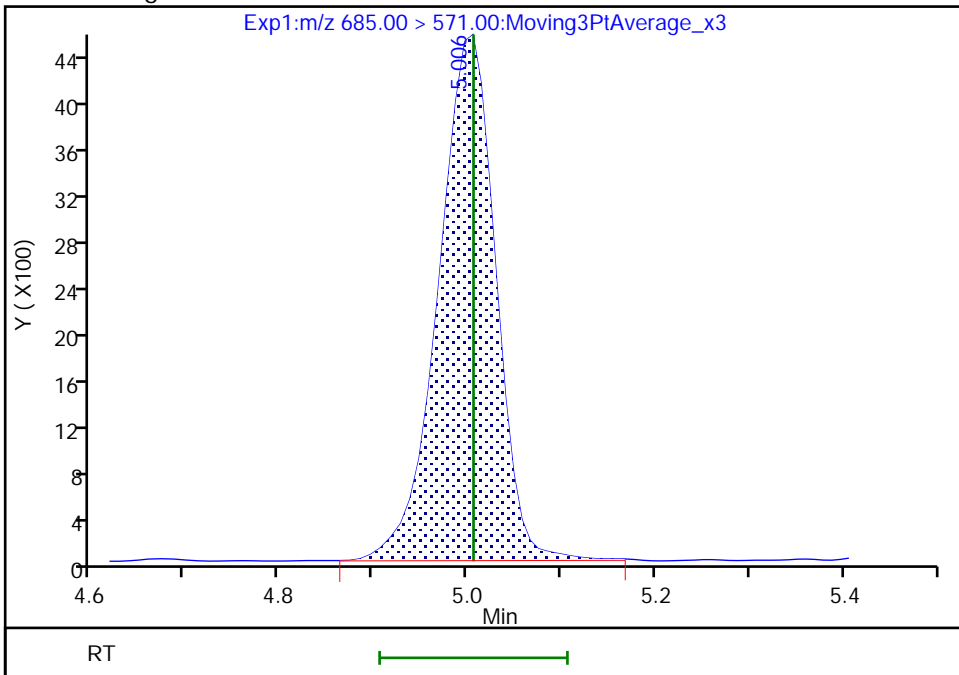
RT: 5.01
Area: 18738
Amount: 1.355225
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 19326
Amount: 1.397752
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-259819/2-A

Matrix: Water Lab File ID: 22JUN01BFS-46.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/27/2022 13:24

Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 21:18

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	260		1.4	0.40
STL02887	BFS_A2B3	4.86		1.1	0.40
STL02880	BFS_A3B	34.5		0.60	0.20
STL02885	BFS_A3B2	64.7		0.80	0.20
STL02883	BFS_A4B	20.8		0.40	0.20
STL02879	BFS_AB2	30.5		0.60	0.080
STL02884	BFS_AB3	283		1.5	0.40
STL02881	BFS_B3	117		0.70	0.30
STL02886	BFS_B4	68.3		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	116		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-46.d
 Lims ID: LCS 410-259819/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2022 21:18:26 ALS Bottle#: 38 Worklist Smp#: 33
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-259819/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-033
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:48:25
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.061	4.066	-0.005	0.909	4143358	7.61	95.0	15699
2 BFS_A3B	519.00 > 113.00	4.137	4.154	-0.017	0.926	4930163	8.63	96.3	828
3 BFS_B3	553.00 > 345.00	4.289	4.307	-0.018	0.960	10380915	29.1	102	7429
4 BFS_A2B2	569.00 > 229.00	4.397	4.407	-0.010	0.984	19860596	65.0	104	2162
D 6 13C3 HFPO-DA	332.00 > 287.00	4.469	4.481	-0.012	0.881	779235	5.81	116	3469
5 BFS_A4B	585.00 > 113.00	4.479	4.490	-0.011	1.002	4056416	5.20	105	2366
7 BFS_AB3	619.00 > 229.00	4.658	4.660	-0.002	1.042	20238638	70.8	106	20097
8 BFS_A3B2	635.00 > 113.00	4.760	4.772	-0.012	1.065	8293371	16.2	137	5617
9 BFS_B4	669.00 > 461.00	4.885	4.897	-0.012	1.093	2727924	17.1	110	2001
10 BFS_A2B3	685.00 > 571.00	4.996	5.006	-0.010	1.118	19286	1.21	103	384
* 11 13C2 PFOA	415.00 > 370.00	5.074	5.085	-0.011		4142227	5.00		3456

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-46.d

Injection Date: 01-Jun-2022 21:18:26

Instrument ID: 30733

Lims ID: LCS 410-259819/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 38

Worklist Smp#: 33

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

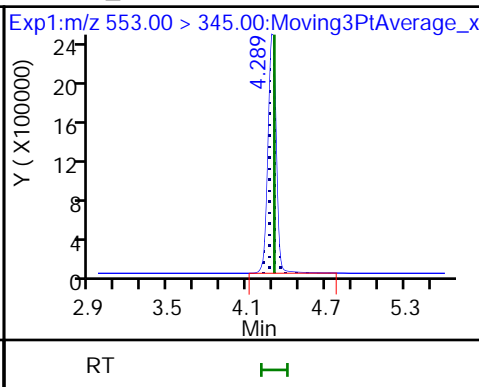
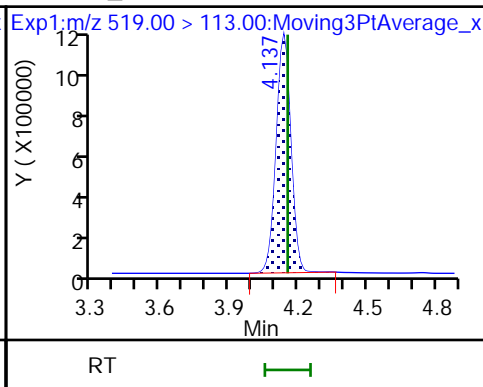
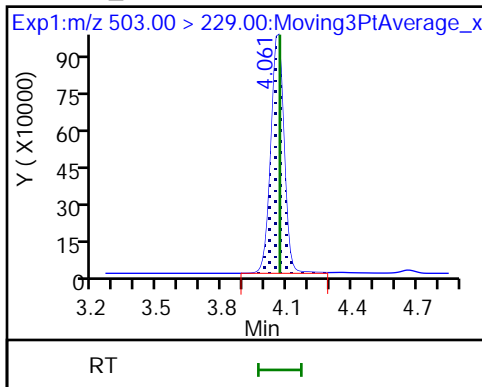
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

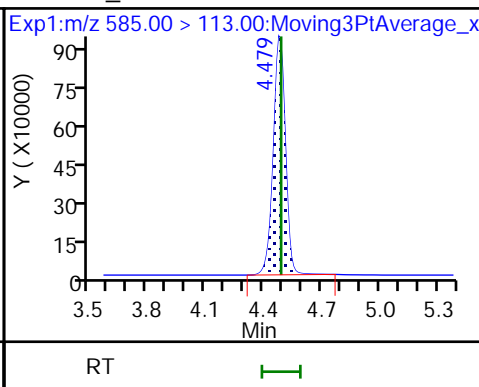
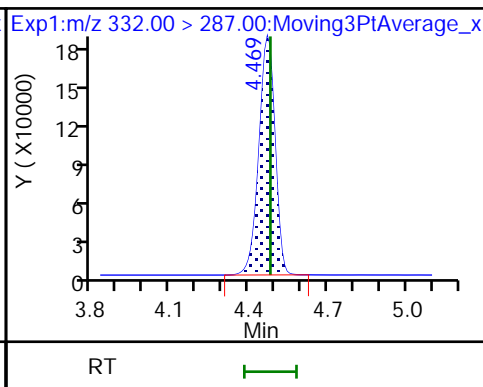
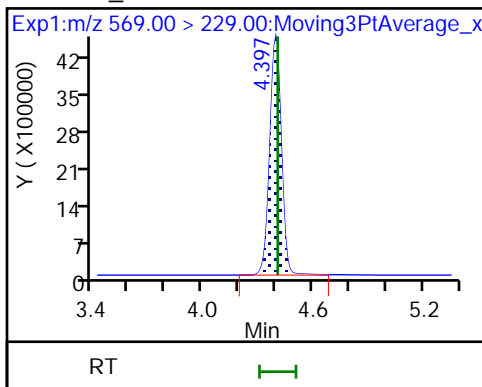
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

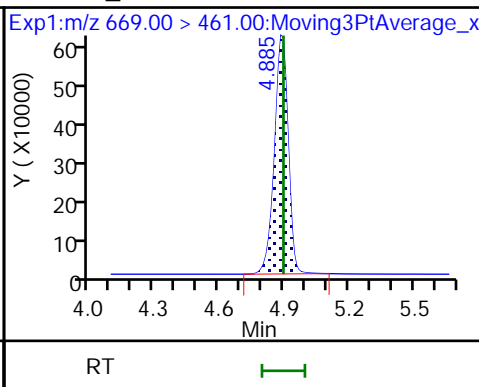
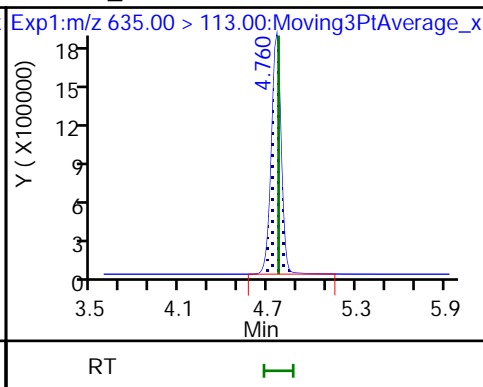
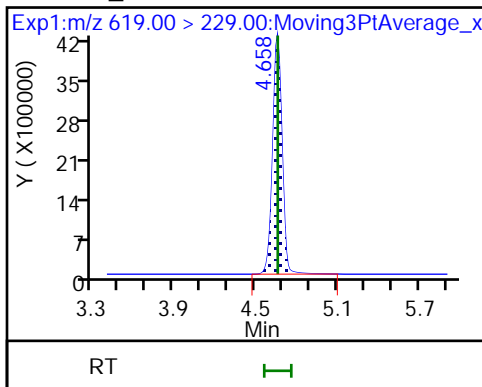
5 BFS_A4B



7 BFS_AB3

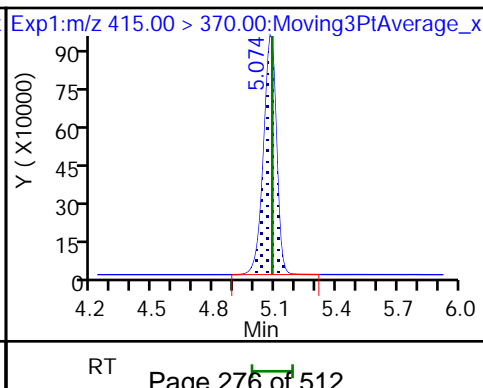
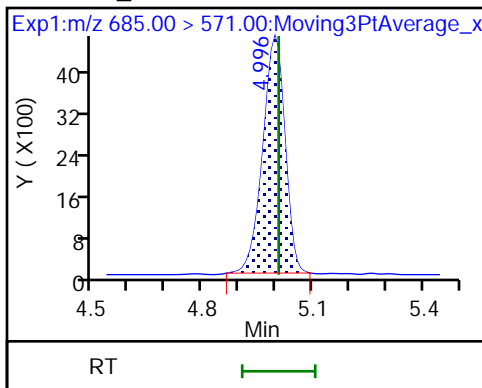
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S MS Lab Sample ID: 410-83867-5 MS

Matrix: Water Lab File ID: 22JUN01BFS-39.d

Analysis Method: BFS Date Collected: 05/11/2022 13:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 294.6(mL) Date Analyzed: 06/01/2022 19:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	453		1.2	0.34
STL02887	BFS_A2B3	9.65		0.93	0.34
STL02880	BFS_A3B	95.6		0.51	0.17
STL02885	BFS_A3B2	101		0.68	0.17
STL02883	BFS_A4B	42.3		0.34	0.17
STL02879	BFS_AB2	90.4		0.51	0.068
STL02884	BFS_AB3	636		1.3	0.34
STL02881	BFS_B3	263		0.59	0.25
STL02886	BFS_B4	143		0.93	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-39.d
 Lims ID: 410-83867-A-5-B MS
 Client ID: MW-106S
 Sample Type: MS
 Inject. Date: 01-Jun-2022 19:48:57 ALS Bottle#: 32 Worklist Smp#: 26
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-5-B MS
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-026
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:47:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.059	4.066	-0.007	0.907	9211355	26.6	332	42881
2 BFS_A3B	519.00 > 113.00	4.147	4.154	-0.007	0.926	10232012	28.2	314	3231
3 BFS_B3	553.00 > 345.00	4.295	4.307	-0.012	0.959	17224342	77.4	271	9103
4 BFS_A2B2	569.00 > 229.00	4.404	4.407	-0.003	0.984	25111080	133.5	214	76376
D 6 13C3 HFPO-DA	332.00 > 287.00	4.477	4.481	-0.004	0.881	495441	3.84	76.9	1928
5 BFS_A4B	585.00 > 113.00	4.487	4.490	-0.003	1.002	6181972	12.5	252	9491
7 BFS_AB3	619.00 > 229.00	4.657	4.660	-0.004	1.040	32722634	187.4	280	47814
8 BFS_A3B2	635.00 > 113.00	4.759	4.772	-0.013	1.063	9744193	29.9	253	4338
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.093	4284242	42.2	271	3820
10 BFS_A2B3	685.00 > 571.00	4.996	5.006	-0.010	1.116	28704	2.84	241	427
* 11 13C2 PFOA	415.00 > 370.00	5.083	5.085	-0.002		3981817	5.00		3159

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-39.d

Injection Date: 01-Jun-2022 19:48:57

Instrument ID: 30733

Lims ID: 410-83867-A-5-B MS

Client ID: MW-106S

Operator ID: US19_USR_INS20260

ALS Bottle#: 32

Worklist Smp#: 26

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

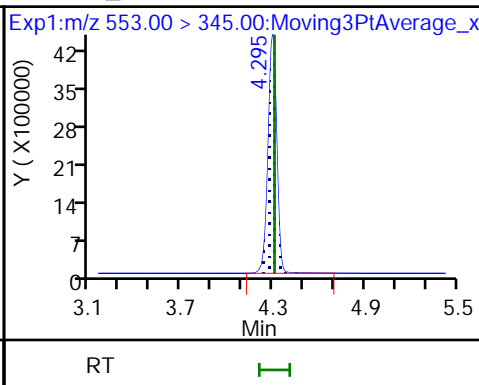
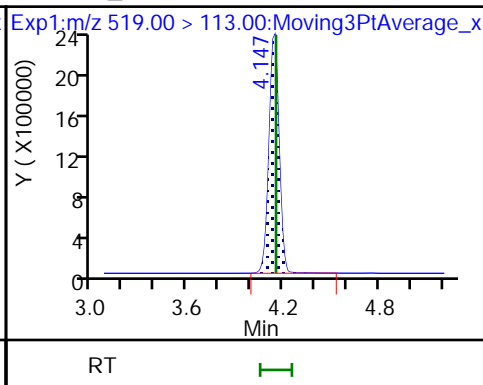
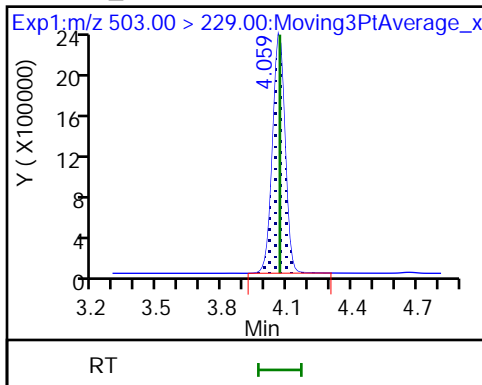
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

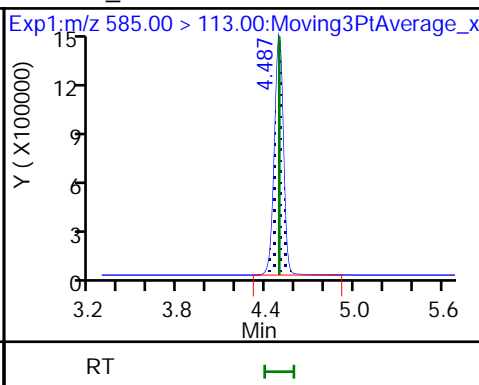
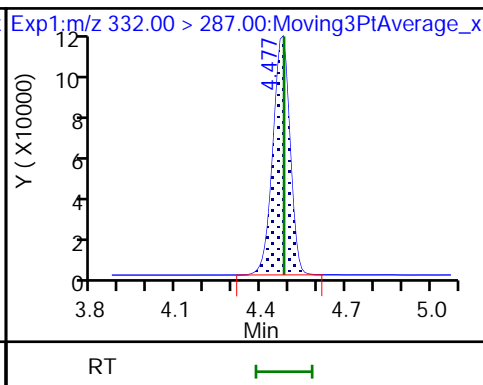
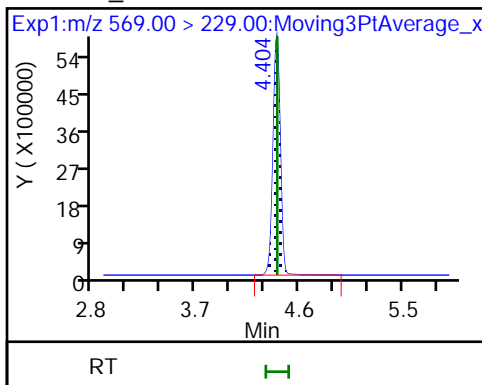
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

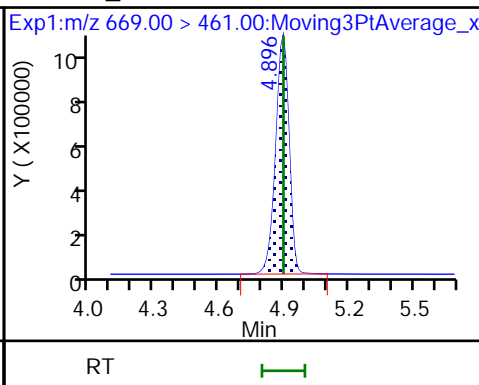
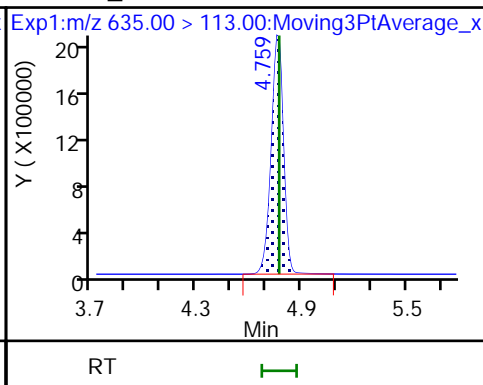
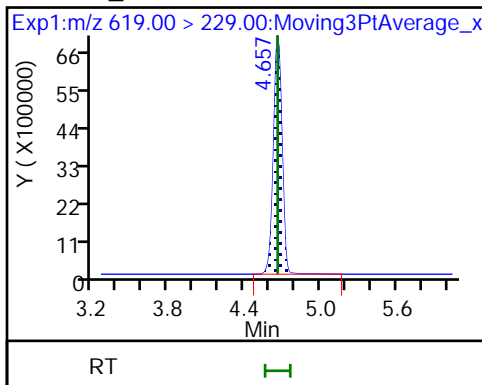
5 BFS_A4B



7 BFS_AB3

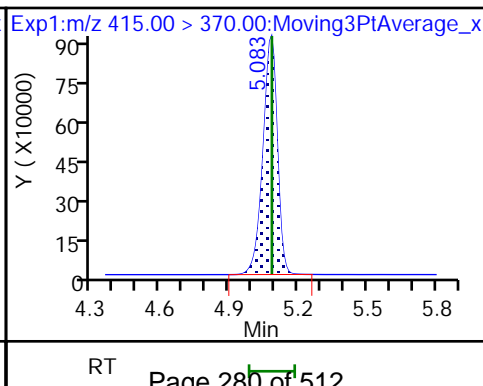
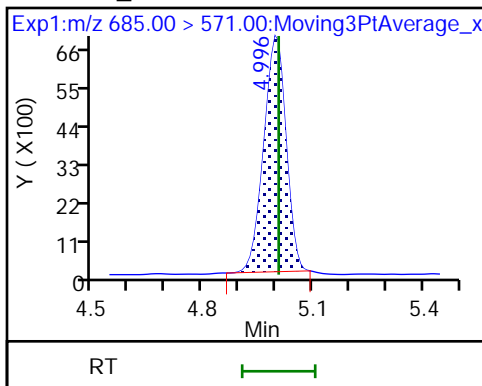
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW106D MS Lab Sample ID: 410-83867-6 MS

Matrix: Water Lab File ID: 22JUN01BFS-48.d

Analysis Method: BFS Date Collected: 05/11/2022 13:05

Extraction Method: 3535 Date Extracted: 05/27/2022 13:24

Sample wt/vol: 268.4(mL) Date Analyzed: 06/01/2022 21:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	352		1.3	0.37
STL02887	BFS_A2B3	7.79		1.0	0.37
STL02880	BFS_A3B	74.5		0.56	0.19
STL02885	BFS_A3B2	77.5		0.75	0.19
STL02883	BFS_A4B	32.5		0.37	0.19
STL02879	BFS_AB2	70.2		0.56	0.075
STL02884	BFS_AB3	458		1.4	0.37
STL02881	BFS_B3	211		0.65	0.28
STL02886	BFS_B4	103		1.0	0.37

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Euromins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-48.d
 Lims ID: 410-83867-A-6-B MS
 Client ID: MW106D
 Sample Type: MS
 Inject. Date: 01-Jun-2022 21:43:35 ALS Bottle#: 40 Worklist Smp#: 35
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-6-B MS
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-035
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:49:03
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.066	4.066	0.0	0.907	8330420	18.8	235	41824
2 BFS_A3B	519.00 > 113.00	4.142	4.154	-0.012	0.924	9279998	20.0	223	2675
3 BFS_B3	553.00 > 345.00	4.291	4.307	-0.016	0.958	16272889	56.7	199	7433
4 BFS_A2B2	569.00 > 229.00	4.408	4.407	0.001	0.984	23151106	94.5	151	91210
D 6 13C3 HFPO-DA	332.00 > 287.00	4.481	4.481	0.0	0.881	633548	4.96	99.2	2651
5 BFS_A4B	585.00 > 113.00	4.490	4.490	0.0	1.002	5533104	8.73	176	4387
7 BFS_AB3	619.00 > 229.00	4.664	4.660	0.004	1.041	28052791	122.9	183	61604
8 BFS_A3B2	635.00 > 113.00	4.764	4.772	-0.008	1.063	8680020	20.8	177	6903
9 BFS_B4	669.00 > 461.00	4.900	4.897	0.003	1.094	3598894	27.7	178	4170
10 BFS_A2B3	685.00 > 571.00	4.999	5.006	-0.007	1.116	27008	2.09	177	819
* 11 13C2 PFOA	415.00 > 370.00	5.086	5.085	0.001		3947846	5.00		3323

QC Flag Legend
 Processing Flags

Reagents:

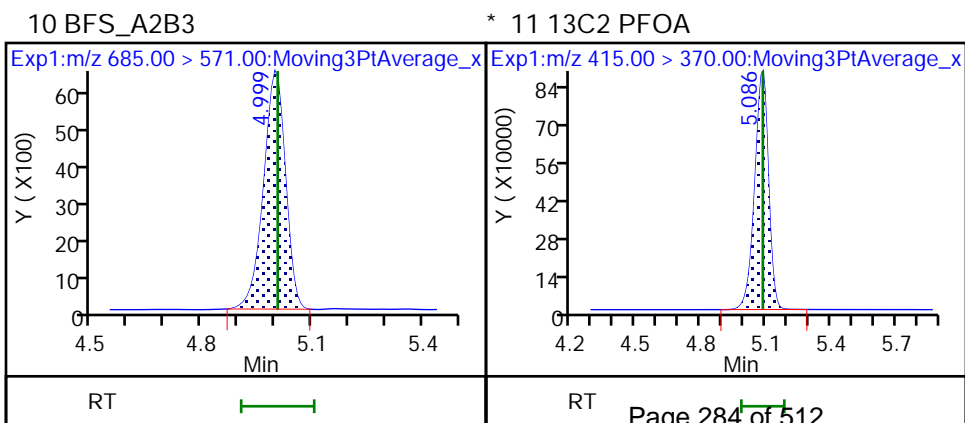
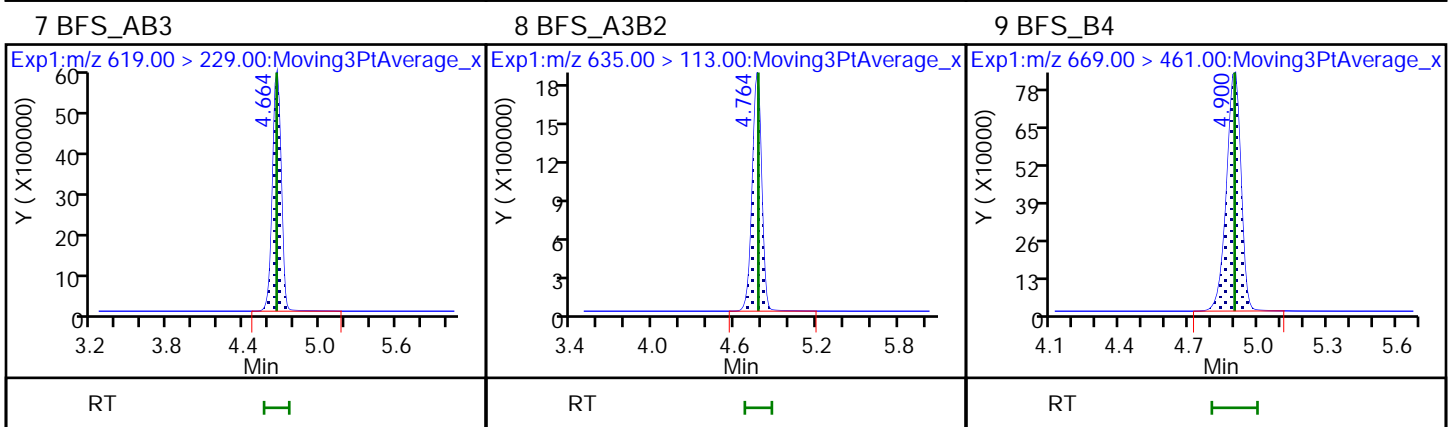
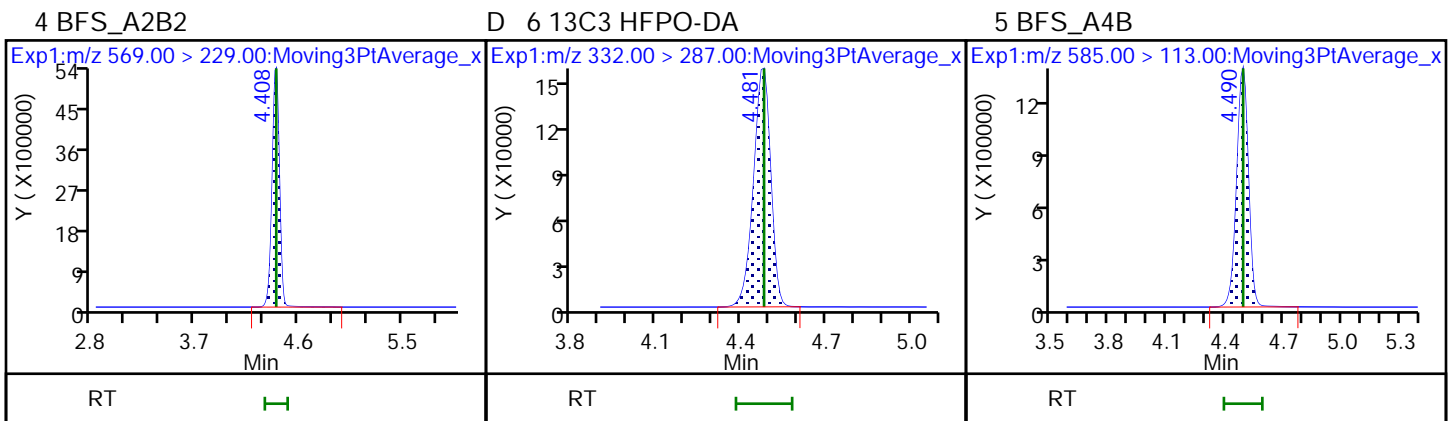
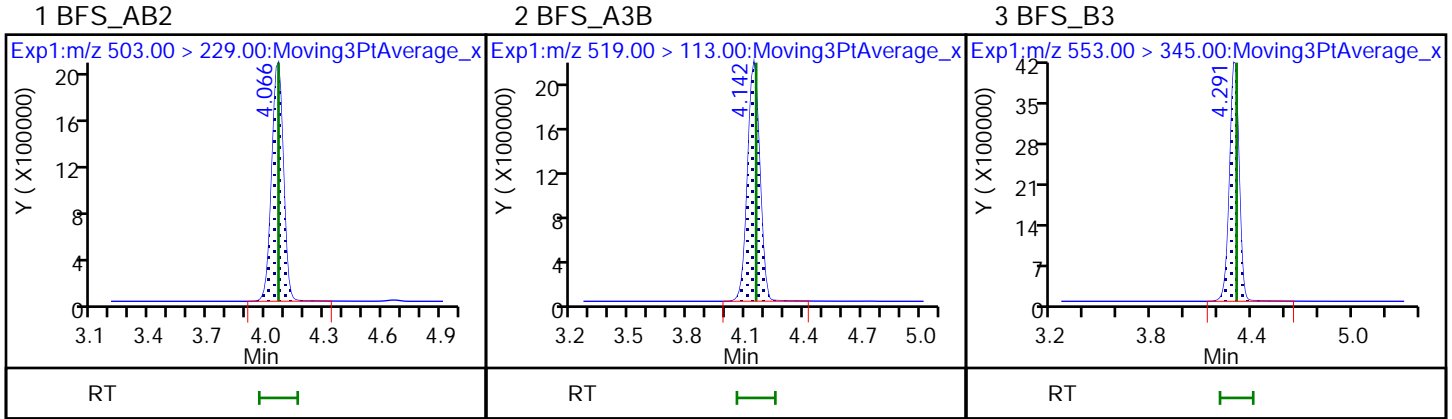
PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-48.d
Injection Date: 01-Jun-2022 21:43:35 Instrument ID: 30733
Lims ID: 410-83867-A-6-B MS
Client ID: MW106D
Operator ID: US19_USR_INS20260 ALS Bottle#: 40 Worklist Smp#: 35
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S MSD Lab Sample ID: 410-83867-5 MSD

Matrix: Water Lab File ID: 22JUN01BFS-40.d

Analysis Method: BFS Date Collected: 05/11/2022 13:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:01

Sample wt/vol: 294.4(mL) Date Analyzed: 06/01/2022 20:02

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260981 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	500		1.2	0.34
STL02887	BFS_A2B3	10.9		0.93	0.34
STL02880	BFS_A3B	107		0.51	0.17
STL02885	BFS_A3B2	110		0.68	0.17
STL02883	BFS_A4B	45.4		0.34	0.17
STL02879	BFS_AB2	96.3		0.51	0.068
STL02884	BFS_AB3	641		1.3	0.34
STL02881	BFS_B3	294		0.59	0.25
STL02886	BFS_B4	150		0.93	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-40.d
 Lims ID: 410-83867-A-5-C MSD
 Client ID: MW-106S
 Sample Type: MSD
 Inject. Date: 01-Jun-2022 20:02:43 ALS Bottle#: 33 Worklist Smp#: 27
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-5-C MSD
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-027
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:49:56 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:47:48
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.055	4.066	-0.011	0.907	9952229	28.4	354	48272
2 BFS_A3B	519.00 > 113.00	4.142	4.154	-0.012	0.926	11559996	31.4	350	4605
3 BFS_B3	553.00 > 345.00	4.291	4.307	-0.016	0.960	19453626	86.5	303	9505
4 BFS_A2B2	569.00 > 229.00	4.399	4.407	-0.008	0.984	27895817	147.1	236	96303
D 6 13C3 HFPO-DA	332.00 > 287.00	4.472	4.481	-0.009	0.881	502491	3.65	73.1	1695
5 BFS_A4B	585.00 > 113.00	4.490	4.490	0.0	1.004	6725503	13.4	270	7215
7 BFS_AB3	619.00 > 229.00	4.663	4.660	0.003	1.043	33424406	188.8	282	34036
8 BFS_A3B2	635.00 > 113.00	4.764	4.772	-0.008	1.065	10698058	32.3	274	5812
9 BFS_B4	669.00 > 461.00	4.889	4.897	-0.008	1.093	4548177	44.1	284	5820
10 BFS_A2B3	685.00 > 571.00	4.999	5.006	-0.007	1.118	32789	3.20	272	464
* 11 13C2 PFOA	415.00 > 370.00	5.077	5.085	-0.008		4249408	5.00		2984

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-40.d

Injection Date: 01-Jun-2022 20:02:43

Instrument ID: 30733

Lims ID: 410-83867-A-5-C MSD

Client ID: MW-106S

Operator ID: US19_USR_INS20260

ALS Bottle#: 33

Worklist Smp#: 27

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

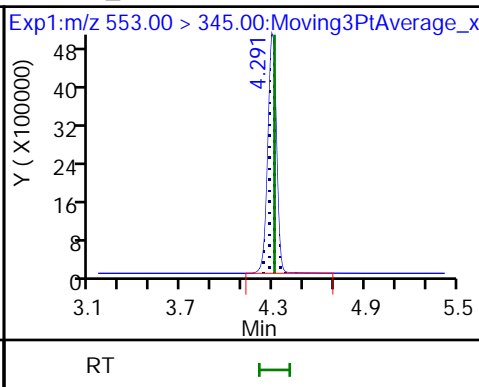
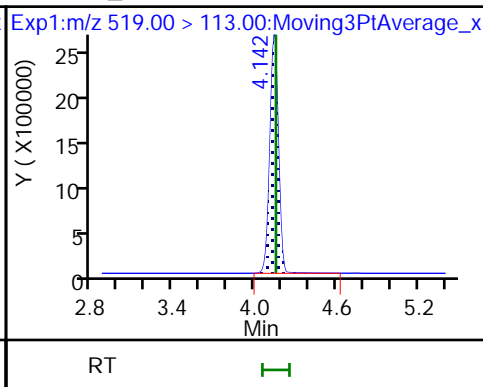
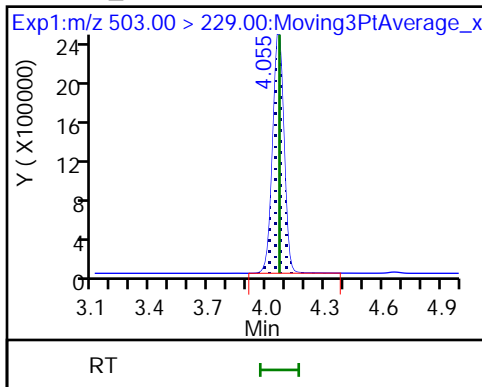
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

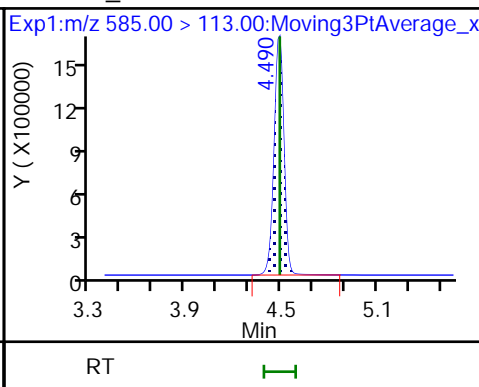
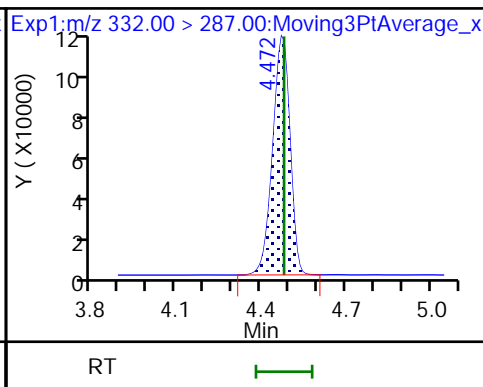
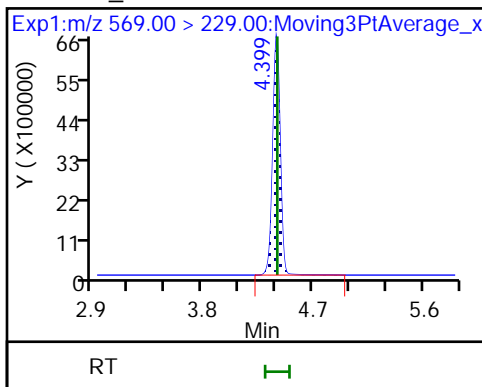
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

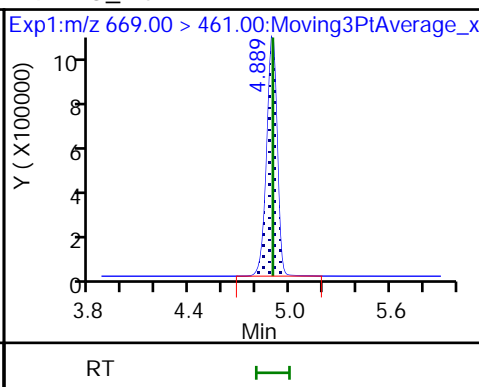
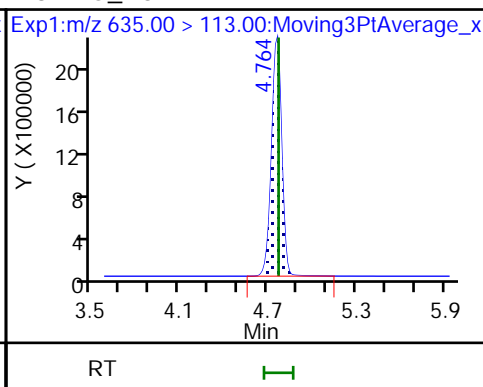
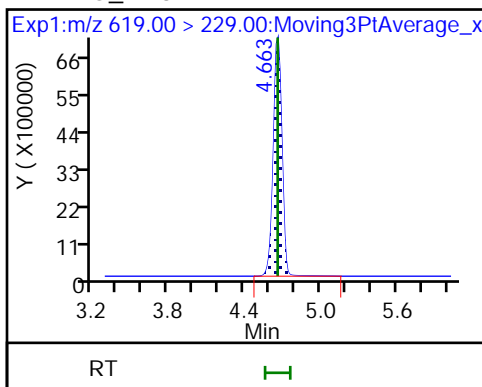
5 BFS_A4B



7 BFS_AB3

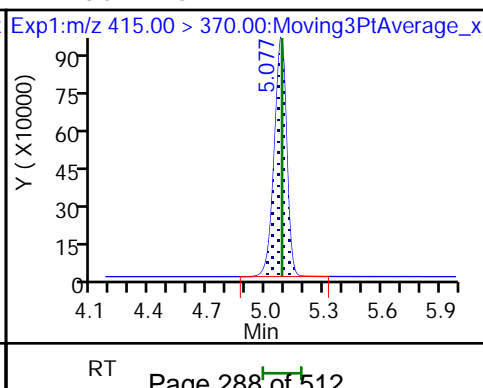
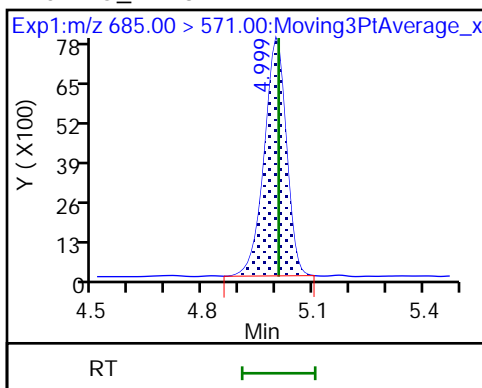
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Client Sample ID: MW106D MSD

Lab Sample ID: 410-83867-6 MSD

Matrix: Water

Lab File ID: 22JUN01BFS-49.d

Analysis Method: BFS

Date Collected: 05/11/2022 13:05

Extraction Method: 3535

Date Extracted: 05/27/2022 13:24

Sample wt/vol: 266(mL)

Date Analyzed: 06/01/2022 21:56

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 15(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 260981

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	381		1.3	0.38
STL02887	BFS_A2B3	7.75		1.0	0.38
STL02880	BFS_A3B	80.7		0.56	0.19
STL02885	BFS_A3B2	86.2		0.75	0.19
STL02883	BFS_A4B	34.0		0.38	0.19
STL02879	BFS_AB2	73.5		0.56	0.075
STL02884	BFS_AB3	492		1.4	0.38
STL02881	BFS_B3	222		0.66	0.28
STL02886	BFS_B4	107		1.0	0.38

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-49.d
 Lims ID: 410-83867-A-6-C MSD
 Client ID: MW106D
 Sample Type: MSD
 Inject. Date: 01-Jun-2022 21:56:10 ALS Bottle#: 41 Worklist Smp#: 36
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-A-6-C MSD
 Misc. Info.: Plate: 11 Rack: 1 410-0058535-036
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 02-Jun-2022 06:53:50 Calib Date: 01-Jun-2022 13:42:07
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220601-58484.b\22JUN01BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 02-Jun-2022 06:49:10
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	4.055	4.066	-0.011	0.907	7812046	19.5	244	36165
2 BFS_A3B	519.00 > 113.00	4.142	4.154	-0.012	0.926	9005121	21.5	240	3508
3 BFS_B3	553.00 > 345.00	4.290	4.307	-0.017	0.960	15315755	59.2	207	5909
4 BFS_A2B2	569.00 > 229.00	4.399	4.407	-0.008	0.984	22354857	101.3	162	99897
D 6 13C3 HFPO-DA	332.00 > 287.00	4.471	4.481	-0.010	0.879	572335	4.73	94.6	2360
5 BFS_A4B	585.00 > 113.00	4.490	4.490	0.0	1.004	5182257	9.05	183	10771
7 BFS_AB3	619.00 > 229.00	4.660	4.660	0.0	1.042	26935316	130.9	196	27850
8 BFS_A3B2	635.00 > 113.00	4.761	4.772	-0.011	1.065	8639497	22.9	194	6565
9 BFS_B4	669.00 > 461.00	4.896	4.897	-0.001	1.095	3329254	28.4	182	3644
10 BFS_A2B3	685.00 > 571.00	4.997	5.006	-0.009	1.118	24065	2.06	175	608
* 11 13C2 PFOA	415.00 > 370.00	5.084	5.085	-0.001		3737699	5.00		3153

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00325

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58535.b\22JUN01BFS-49.d

Injection Date: 01-Jun-2022 21:56:10

Instrument ID: 30733

Lims ID: 410-83867-A-6-C MSD

Client ID: MW106D

Operator ID: US19_USR_INS20260

ALS Bottle#: 41

Worklist Smp#: 36

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

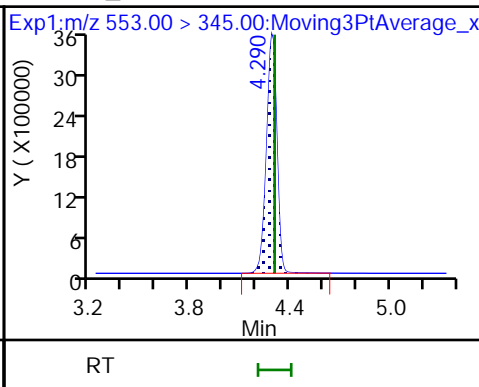
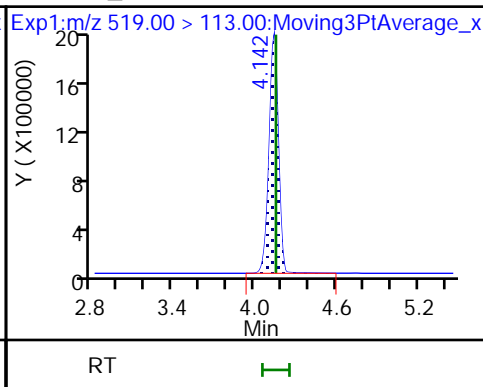
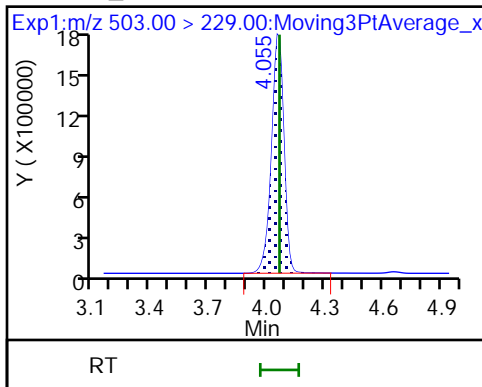
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Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

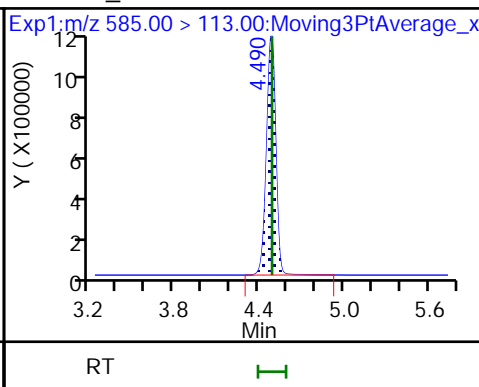
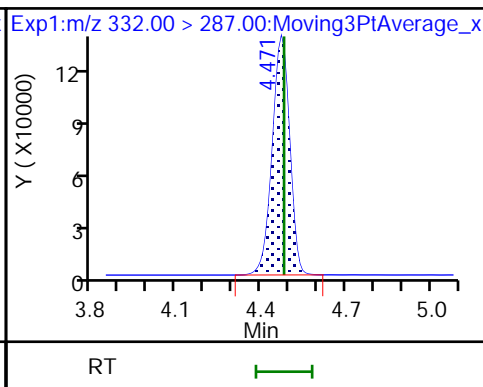
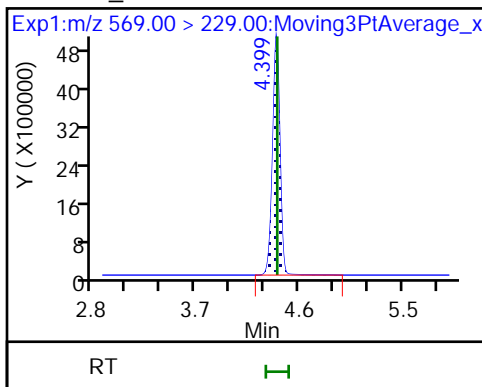
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

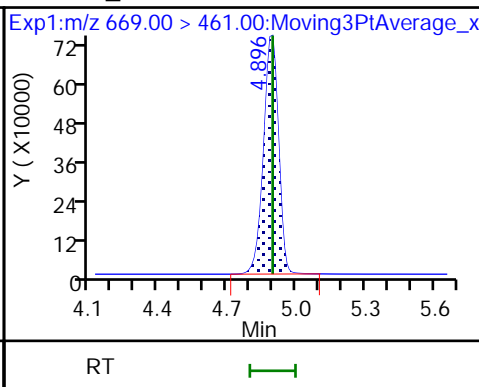
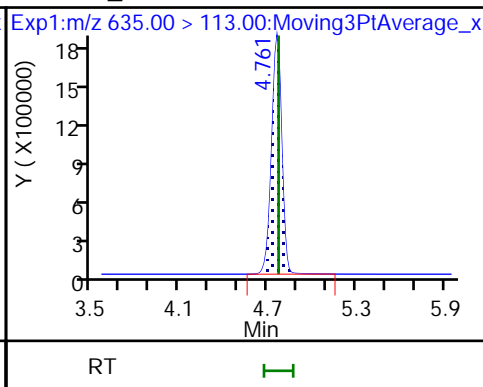
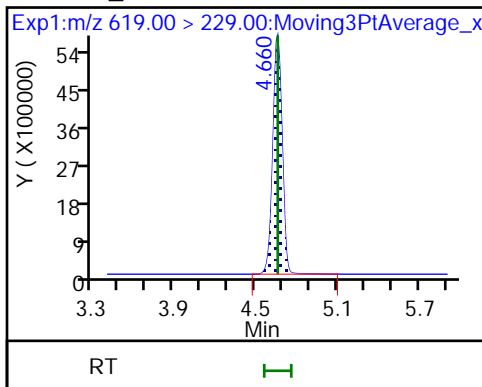
5 BFS_A4B



7 BFS_AB3

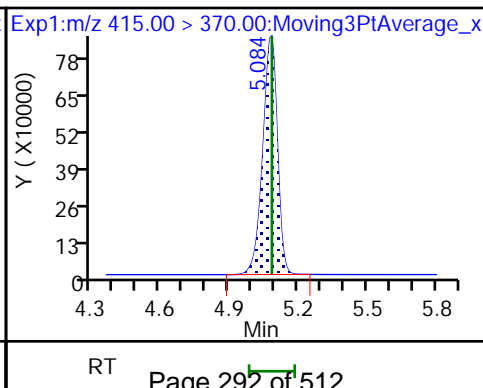
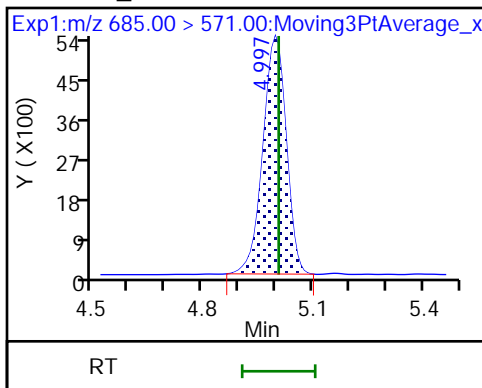
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Start Date: 06/01/2022 11:47

Analysis Batch Number: 260772 End Date: 06/01/2022 14:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-260772/1		06/01/2022 11:47	1	22JUN01BFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-260772/2		06/01/2022 12:01	1	22JUN01BFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-260772/3		06/01/2022 12:13	1	22JUN01BFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-260772/4		06/01/2022 12:26	1	22JUN01BFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-260772/5		06/01/2022 12:39	1	22JUN01BFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-260772/6		06/01/2022 12:51	1	22JUN01BFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-260772/7		06/01/2022 13:04	1	22JUN01BFS-07.d	Gemini C18 50mm 3 (mm)
IC 410-260772/8		06/01/2022 13:16	1	22JUN01BFS-08.d	Gemini C18 50mm 3 (mm)
IC 410-260772/9		06/01/2022 13:29	1	22JUN01BFS-09.d	Gemini C18 50mm 3 (mm)
IC 410-260772/10		06/01/2022 13:42	1	22JUN01BFS-10.d	Gemini C18 50mm 3 (mm)
ICB 410-260772/11		06/01/2022 13:55	1	22JUN01BFS-11.d	Gemini C18 50mm 3 (mm)
ICV 410-260772/12		06/01/2022 14:08	1	22JUN01BFS-12.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Start Date: 06/01/2022 14:33

Analysis Batch Number: 260981 End Date: 06/01/2022 22:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-260981/1		06/01/2022 14:33	1	22JUN01BFS-14.d	Gemini C18 50mm 3 (mm)
MB 410-256031/1-A		06/01/2022 14:46	1	22JUN01BFS-15.d	Gemini C18 50mm 3 (mm)
LCS 410-256031/2-A		06/01/2022 14:58	1	22JUN01BFS-16.d	Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 15:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 15:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 15:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 15:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 16:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 16:14	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 16:27	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 16:39	10		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 16:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 17:04	10		Gemini C18 50mm 3 (mm)
CCV 410-260981/14		06/01/2022 17:17	1	22JUN01BFS-27.d	Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 17:30	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 17:42	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 17:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		06/01/2022 18:08	1		Gemini C18 50mm 3 (mm)
410-83867-1	MW-109S	06/01/2022 18:20	1	22JUN01BFS-32.d	Gemini C18 50mm 3 (mm)
410-83867-1 DL	MW-109S DL	06/01/2022 18:33	10	22JUN01BFS-33.d	Gemini C18 50mm 3 (mm)
410-83867-2	MW-109D	06/01/2022 18:45	1	22JUN01BFS-34.d	Gemini C18 50mm 3 (mm)
410-83867-3	MW-124S	06/01/2022 18:58	1	22JUN01BFS-35.d	Gemini C18 50mm 3 (mm)
410-83867-4	MW-124D	06/01/2022 19:11	1	22JUN01BFS-36.d	Gemini C18 50mm 3 (mm)
410-83867-5	MW-106S	06/01/2022 19:23	1	22JUN01BFS-37.d	Gemini C18 50mm 3 (mm)
CCV 410-260981/25		06/01/2022 19:36	1	22JUN01BFS-38.d	Gemini C18 50mm 3 (mm)
410-83867-5 MS	MW-106S MS	06/01/2022 19:48	1	22JUN01BFS-39.d	Gemini C18 50mm 3 (mm)
410-83867-5 MSD	MW-106S MSD	06/01/2022 20:02	1	22JUN01BFS-40.d	Gemini C18 50mm 3 (mm)
410-83867-7	DUP1_05112022	06/01/2022 20:15	1	22JUN01BFS-41.d	Gemini C18 50mm 3 (mm)
410-83867-8	DUP2_05112022	06/01/2022 20:27	1	22JUN01BFS-42.d	Gemini C18 50mm 3 (mm)
410-83867-9	EB_05112022	06/01/2022 20:40	1	22JUN01BFS-43.d	Gemini C18 50mm 3 (mm)
CCV 410-260981/31		06/01/2022 20:53	1	22JUN01BFS-44.d	Gemini C18 50mm 3 (mm)
MB 410-259819/1-A		06/01/2022 21:05	1	22JUN01BFS-45.d	Gemini C18 50mm 3 (mm)
LCS 410-259819/2-A		06/01/2022 21:18	1	22JUN01BFS-46.d	Gemini C18 50mm 3 (mm)
410-83867-6	MW106D	06/01/2022 21:31	1	22JUN01BFS-47.d	Gemini C18 50mm 3 (mm)
410-83867-6 MS	MW106D MS	06/01/2022 21:43	1	22JUN01BFS-48.d	Gemini C18 50mm 3 (mm)
410-83867-6 MSD	MW106D MSD	06/01/2022 21:56	1	22JUN01BFS-49.d	Gemini C18 50mm 3 (mm)
410-83867-10	MW-111S	06/01/2022 22:08	1	22JUN01BFS-50.d	Gemini C18 50mm 3 (mm)
410-83867-11	MW-111D	06/01/2022 22:21	1	22JUN01BFS-51.d	Gemini C18 50mm 3 (mm)
410-83867-12	EB_05122022	06/01/2022 22:34	1	22JUN01BFS-52.d	Gemini C18 50mm 3 (mm)
CCV 410-260981/40		06/01/2022 22:46	1	22JUN01BFS-53.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 256031 Batch Start Date: 05/17/22 09:01 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00013	PFC_SS 00010
MB 410-256031/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-256031/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-83867-A-1	MW-109S	3535, BFS	T	312.50 g	28.72 g	283.8 mL	1 mL		0.1 mL
410-83867-A-2	MW-109D	3535, BFS	T	298.97 g	27.25 g	271.7 mL	1 mL		0.1 mL
410-83867-A-3	MW-124S	3535, BFS	T	294.93 g	28.61 g	266.3 mL	1 mL		0.1 mL
410-83867-A-4	MW-124D	3535, BFS	T	309.16 g	27.25 g	281.9 mL	1 mL		0.1 mL
410-83867-A-5	MW-106S	3535, BFS	T	290.09 g	27.09 g	263 mL	1 mL		0.1 mL
410-83867-A-5 MS	MW-106S	3535, BFS	T	322.77 g	28.16 g	294.6 mL	1 mL	0.045 mL	0.1 mL
410-83867-A-5 MSD	MW-106S	3535, BFS	T	322.11 g	27.69 g	294.4 mL	1 mL	0.045 mL	0.1 mL
410-83867-A-7	DUP1_05112022	3535, BFS	T	328.60 g	27.89 g	300.7 mL	1 mL		0.1 mL
410-83867-A-8	DUP2_05112022	3535, BFS	T	295.05 g	27.89 g	267.2 mL	1 mL		0.1 mL
410-83867-A-9	EB_05112022	3535, BFS	T	312.24 g	27.95 g	284.3 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-256031/1		3535, BFS							
LCS 410-256031/2		3535, BFS							
410-83867-A-1	MW-109S	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-2	MW-109D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-3	MW-124S	3535, BFS	T	Discolored, Particulate, Vacuum was applied, Cloudy					
410-83867-A-4	MW-124D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 256031 Batch Start Date: 05/17/22 09:01 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-83867-A-5	MW-106S	3535, BFS	T	Discolored, Sediment, Vacuum was applied					
410-83867-A-5 MS	MW-106S	3535, BFS	T	Discolored, Sediment, Vacuum was applied					
410-83867-A-5 MSD	MW-106S	3535, BFS	T	Discolored, Sediment, Vacuum was applied					
410-83867-A-7	DUP1_05112022	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-8	DUP2_05112022	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-9	EB_05112022	3535, BFS	T						

Batch Notes	
SPE Cartridge Lot ID	6666672-01
Balance ID	C125996498
Manifold ID	17 & 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8 & 3
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217031
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210130-058

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 256031 Batch Start Date: 05/17/22 09:01 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/03/2022

Solid-Phase Extraction (SPE)

BFS



410-256031

5/19
Batch Number: 410-256031
Method Code: 410-3535_28D-410

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHS		Due Date	Analytical TAT	Div Rank	Comments	Sample Lab ID
				Rcvd	Adj1					
1 MB-410-256031/1 N/A	N/A	300 g	250 mL			N/A	N/A	N/A		MB-410-256031/1-A-1
		50 g	1 mL							
2 LCS-410-256031/2 N/A	N/A	300 g	250 mL			N/A	N/A	N/A		LCS-410-256031/2-A-1
		50 g	1 mL							
3 410-83412-A-1 (BFS_IDA)	N/A (410-83412-1)	307.25 g	279.9 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-1-A-1
		27.34 g	1 mL							
4 410-83412-A-2 (BFS_IDA)	N/A (410-83412-1)	308.59 g	281.2 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-2-A-1
		27.37 g	1 mL							
5 410-83412-A-3 (BFS_IDA)	N/A (410-83412-1)	316.56 g	289.1 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-3-A-1
		27.43 g	1 mL							
6 410-83412-A-4 (BFS_IDA)	N/A (410-83412-1)	299.16 g	271.9 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	410-83412-A-4-A-1
		27.25 g	1 mL							
7 410-83412-A-5 (BFS_IDA)	N/A (410-83412-1)	280.38 g	282.7 mL			5/13/22	7_Days	4		410-83412-A-5-A-1
		27.66 g	1 mL							
8 410-83412-A-6 (BFS_IDA)	N/A (410-83412-1)	294.42 g	266.4 mL			5/13/22	7_Days	4		410-83412-A-6-A-1
		28.04 g	1 mL							

Printed: 5/17/2022

N-Fmp. A, the returned 5/19/22
Page 1 of 7

Reconstituted by SBC 20094
-ancaster Laboratories Environment Testing, LLC
5/19/22

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/03/2022

Sample ID	Weight (g)	Volume (mL)	Date	Days	Replicates	Notes
9 410-83412-A-7 (BFS_IDA)	N/A 808.92 g	N/A 280.7 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied
10 410-83412-A-8 (BFS_IDA)	N/A 28.25 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 813.32 g	285.2 mL				
11 410-83412-A-9 (BFS_IDA)	N/A 28.14 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy
	N/A 812.31 g	285.3 mL				
12 410-83412-A-10 (BFS_IDA)	N/A 27.05 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied.
	N/A 812.62 g	284.7 mL				
13 410-83412-A-11 (BFS_IDA)	N/A 27.88 g	1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 812.15 g	284.9 mL				
14 410-83412-A-12 (BFS_IDA)	N/A 27.27 g	1 mL	5/13/22	7_Days	4	
	N/A 803.57 g	276.4 mL				
15 410-83867-A-1 (BFS_IDA)	N/A 27.17 g	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 812.50 g	283.8 mL				
16 410-83867-A-2 (BFS_IDA)	N/A 28.72 g	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	N/A 898.97 g	271.7 mL				
17 410-83867-A-3 (BFS_IDA)	N/A 27.25 g	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy
	N/A 894.93 g	266.3 mL				

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/03/2022

Sample ID	Weight (g)	Volume (mL)	Date	Duration	Replicates	Notes
18 410-83867-A-4 (BFS_IDA)	N/A	28.61 g	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	(410-83867-1)	309.16 g				
19 410-83867-A-5 (BFS_IDA)	N/A	27.25 g	5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied
	(410-83867-1)	290.09 g				
20 410-83867-A-5-MS (BFS_IDA)	N/A	27.09 g	5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied
	(410-83867-1)	322.77 g				
21 410-83867-A-5-MSD (BFS_IDA)	N/A	28.16 g	5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied
	(410-83867-1)	322.11 g				
22 410-83867-A-7 (BFS_IDA)	N/A	27.69 g	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	(410-83867-1)	328.60 g				
23 410-83867-A-8 (BFS_IDA)	N/A	27.89 g	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	(410-83867-1)	295.05 g				
24 410-83867-A-9 (BFS_IDA)	N/A	27.89 g	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied
	(410-83867-1)	312.24 g				

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/03/2022

Batch Notes

pH Indicator ID	
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6666672-01
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	C125996498
Manifold ID	17 & 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8 & 3
Na2SO4 ID	
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217031
Milli-Q Reagent Water ID	House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/03/2022

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210130-058

Batch Comment

Comments

410-83412-A-11

Method Comments: Client note: HIGH TURBIDITY

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/03/2022

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-256031/1	PFC_SS_00010	.100 mL	1 mL		
LCS 410-256031/2	PFC_IN_BFS_00013	.045 mL	1 mL		
LCS 410-256031/2	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-1	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-2	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-3	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-4	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-5	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-6	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-7	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-8	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-9	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-10	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-11	PFC_SS_00010	.100 mL	1 mL		
410-83412-A-12	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-1	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-2	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-3	PFC_SS_00010	.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256031

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:01:00AM

Batch End:

06/03/2022

410-83867-A-4	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-5	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-5 MS	PFC_IN_BFS_00013	.045 mL	1 mL		
410-83867-A-5 MS	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-5 MSD	PFC_IN_BFS_00013	.045 mL	1 mL		
410-83867-A-5 MSD	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-7	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-8	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-9	PFC_SS_00010	.100 mL	1 mL		

Reagent	Other Reagents:	Amount/Units	Lot#:
<i>Internal Standard</i>		<i>2001</i>	<i>PFC 15. MW. 00328</i>
<i>Dilution 05/20/22</i>			

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 259819 Batch Start Date: 05/27/22 13:24 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00013	PFC_SS 00010
MB 410-259819/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-259819/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-83867-A-6	MW106D	3535, BFS	T	331.92 g	27.46 g	304.5 mL	1 mL		0.1 mL
410-83867-A-6 MS	MW106D	3535, BFS	T	296.52 g	28.15 g	268.4 mL	1 mL	0.045 mL	0.1 mL
410-83867-A-6 MSD	MW106D	3535, BFS	T	294.40 g	28.40 g	266 mL	1 mL	0.045 mL	0.1 mL
410-83867-A-10	MW-111S	3535, BFS	T	335.94 g	27.41 g	308.5 mL	1 mL		0.1 mL
410-83867-A-11	MW-111D	3535, BFS	T	333.56 g	27.70 g	305.9 mL	1 mL		0.1 mL
410-83867-A-12	EB_05122022	3535, BFS	T	287.75 g	28.62 g	259.1 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-259819/1		3535, BFS							
LCS 410-259819/2		3535, BFS							
410-83867-A-6	MW106D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-6 MS	MW106D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-6 MSD	MW106D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-10	MW-111S	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-11	MW-111D	3535, BFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-A-12	EB_05122022	3535, BFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 259819 Batch Start Date: 05/27/22 13:24 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6666675-01
Balance ID	C125996498
Manifold ID	1, 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8 & 3
Solvent Name	.3% NH4OH in MeOH
Solvent Lot #	4072605262233A
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	DC20115
Methanol ID	217031
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210130-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-259819

Method Code: 410-3535_28D-410

Batch Opern: 5/27/2022 1:24:00PM

Batch End: B410-259819

Solid-Phase Extraction (SPE)

5/22



06/03/2022

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHS		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
				Rcvd	Adj1 Adj2					
1 MB-410-259819/1 N/A	N/A	300 g 50 g	250 mL 1 mL			N/A	N/A	N/A		MB 410-259819/1-A
2 LCS-410-259819/2 N/A	N/A	300 g 50 g	250 mL 1 mL			N/A	N/A	N/A		LCS 410-259819/2-A
3 410-83867-A-6 (BFS_IDA)	N/A (410-83867-1)	331.92 g	304.5 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-A-6-B
4 410-83867-A-6-MS (BFS_IDA)	N/A (410-83867-1)	27.46 g 296.52 g	1 mL 268.4 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-A-6-MS
5 410-83867-A-6-MSD (BFS_IDA)	N/A (410-83867-1)	28.15 g 294.40 g	1 mL 266 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-A-6-C MSD
6 410-83867-A-10 (BFS_IDA)	N/A (410-83867-1)	28.40 g 335.94 g	1 mL 308.5 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-A-10-A
7 410-83867-A-11 (BFS_IDA)	N/A (410-83867-1)	27.41 g 333.56 g	1 mL 305.9 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-A-11-A
8 410-83867-A-12 (BFS_IDA)	N/A (410-83867-1)	27.70 g 287.75 g 28.62 g	1 mL 259.1 mL 1 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-A-12-A

Printed: 5/27/2022
 N-Frog c 4/02 DC 2015 5/30/22
 Page 1 of 5
 Lancaster Laboratories Environment Testing, LLC
 Nancy K. Wolfe DC 2015 5/30/22

Batch Number: 410-259819
Method Code: 410-3535_28D-410

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)
Analyst: Lugo, Dayanna

Batch Open: 5/27/2022 1:24:00PM
Batch End:

06/03/2022

Batch Notes

pH Indicator ID	
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6666675-01
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	C125996498
Manifold ID	1, 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8 & 3
Na2SO4 ID	
Solvent Name	.3% NH4OH in MeOH
Solvent Lot #	4072605262233A
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	DC20115
Methanol ID	217031
Milli-Q Reagent Water ID	House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-259819

Method Code: 410-3535_28D-410

Batch Open: 5/27/2022 1:24:00PM

Batch End:

06/03/2022

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210130-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-259819

Method Code: 410-3535_28D-410

Batch Oper: 5/27/2022 1:24:00PM

Batch End:

06/03/2022

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-259819/1	PFC_SS_00010	.100 mL	1 mL		
LCS 410-259819/2	PFC_IN_BFS_00013	.045 mL	1 mL		
LCS 410-259819/2	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-6	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-6 MS	PFC_IN_BFS_00013	.045 mL	1 mL		
410-83867-A-6 MS	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-6 MSD	PFC_IN_BFS_00013	.045 mL	1 mL		
410-83867-A-6 MSD	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-10	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-11	PFC_SS_00010	.100 mL	1 mL		
410-83867-A-12	PFC_SS_00010	.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Oper: 5/27/2022 1:24:00PM

Batch End:

06/03/2022

Batch Number: 410-259819

Method Code: 410-3535_28D-410

Reagent	Other Reagents:	Amount/Units	Lot#:
Internal Standard		20µL	PCL-15-W00-00336

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 260772 Batch Start Date: 06/01/22 11:47 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00325	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-260772/1		BFS					200 uL		
IC 410-260772/2		BFS							200 uL
IC 410-260772/3		BFS							
IC 410-260772/4		BFS							
ICISAV 410-260772/5		BFS							
IC 410-260772/6		BFS							
IC 410-260772/7		BFS							
IC 410-260772/8		BFS							
IC 410-260772/9		BFS							
IC 410-260772/10		BFS						200 uL	
ICB 410-260772/11		BFS			10 uL	50 uL			
ICV 410-260772/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-260772/1		BFS							
IC 410-260772/2		BFS							
IC 410-260772/3		BFS		200 uL					
IC 410-260772/4		BFS			200 uL				
ICISAV 410-260772/5		BFS				200 uL			
IC 410-260772/6		BFS					200 uL		
IC 410-260772/7		BFS						200 uL	
IC 410-260772/8		BFS							200 uL
IC 410-260772/9		BFS							
IC 410-260772/10		BFS							
ICB 410-260772/11		BFS							
ICV 410-260772/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 260772 Batch Start Date: 06/01/22 11:47 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-260772/1		BFS							
IC 410-260772/2		BFS							
IC 410-260772/3		BFS							
IC 410-260772/4		BFS							
ICISAV 410-260772/5		BFS							
IC 410-260772/6		BFS							
IC 410-260772/7		BFS							
IC 410-260772/8		BFS							
IC 410-260772/9		BFS		200 uL					
IC 410-260772/10		BFS							
ICB 410-260772/11		BFS							
ICV 410-260772/12		BFS							

Batch Notes	
Mobil Phase ID	2732105232233A; 2732105232233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MFS_IDA

Mono-functional Surfactants (MFS) by
LC/MS/MS using Isotope Dilution

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-109S	410-83867-1	78 cn
MW-109S DL	410-83867-1 DL	73 cn
MW-109D	410-83867-2	80 cn
MW-124S	410-83867-3	90 cn
MW-124D	410-83867-4	83 cn
MW-106S	410-83867-5	64
MW106D	410-83867-6	92
DUP1_05112022	410-83867-7	65
DUP2_05112022	410-83867-8	65
EB_05112022	410-83867-9	67
MW-111S	410-83867-10	91
MW-111S DL	410-83867-10 DL	103
MW-111D	410-83867-11	94
MW-111D DL	410-83867-11 DL	97
EB_05122022	410-83867-12	116
	MB 410-256033/1-A	85
	MB 410-259821/1-A	108
	LCS 410-256033/2-A	74
	LCS 410-259821/2-A	105
MW-106S MS	410-83867-5 MS	65
MW106D MS	410-83867-6 MS	91
MW-106S MSD	410-83867-5 MSD	54
MW106D MSD	410-83867-6 MSD	87

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II MFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22MAY31MFS-13.d

Lab ID: LCS 410-256033/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	40.4	45.5	113	70-130	
MFS_M3	40.4	44.8	111	70-130	
MFS_N3	40.1	44.2	110	70-130	
MFS_M4	40.8	43.4	106	70-130	
MFS_N4	40.2	43.2	108	70-130	
MFS_N5	40.0	44.6	111	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22MAY31MFS-24.d

Lab ID: LCS 410-259821/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	40.4	45.7	113	70-130	
MFS_M3	40.4	45.6	113	70-130	
MFS_N3	40.1	45.6	114	70-130	
MFS_M4	40.8	45.4	111	70-130	
MFS_N4	40.2	43.5	108	70-130	
MFS_N5	40.0	44.9	112	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22MAY31MFS-19.d

Lab ID: 410-83867-5 MS

Client ID: MW-106S MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	34.2	0.75 J	142	412	70-130	F1
MFS_M3	34.3	ND	77.0	225	70-130	F1
MFS_N3	34.0	ND	112	331	70-130	F1
MFS_M4	34.6	ND	55.4	160	70-130	F1
MFS_N4	34.1	ND	52.6	154	70-130	F1
MFS_N5	34.0	ND	32.0	94	70-130	

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22MAY31MFS-26.d

Lab ID: 410-83867-6 MS

Client ID: MW106D MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	37.8	65	50.1	-40	70-130	F1
MFS_M3	37.9	16	45.1	77	70-130	
MFS_N3	37.6	40	46.2	18	70-130	F1
MFS_M4	38.2	ND	47.6	125	70-130	
MFS_N4	37.7	ND	48.4	128	70-130	
MFS_N5	37.5	ND	40.3	107	70-130	

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22MAY31MFS-20.d

Lab ID: 410-83867-5 MSD

Client ID: MW-106S MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	34.4	130	377	8	30	70-130	F1
MFS_M3	34.5	86.9	252	12	30	70-130	F1
MFS_N3	34.2	127	372	12	30	70-130	F1
MFS_M4	34.8	61.9	178	11	30	70-130	F1
MFS_N4	34.3	59.2	173	12	30	70-130	F1
MFS_N5	34.1	40.6	119	23	30	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22MAY31MFS-27.d

Lab ID: 410-83867-6 MSD

Client ID: MW106D MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	38.8	52.9	-32	5	30	70-130	F1
MFS_M3	38.9	47.2	80	4	30	70-130	
MFS_N3	38.5	48.4	23	4	30	70-130	F1
MFS_M4	39.2	47.7	122	0	30	70-130	
MFS_N4	38.6	45.9	119	5	30	70-130	
MFS_N5	38.5	29.8	77	30	30	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Lab File ID: 22MAY24MFS-14.d

Lab Sample ID: MB 410-256033/1-A

Matrix: Water

Date Extracted: 05/17/2022 09:10

Instrument ID: 30733

Date Analyzed: 05/24/2022 10:10

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-109S	410-83867-1	22MAY24MFS-29.d	05/24/2022 13:20
MW-109D	410-83867-2	22MAY24MFS-30.d	05/24/2022 13:33
MW-124S	410-83867-3	22MAY24MFS-31.d	05/24/2022 13:46
MW-124D	410-83867-4	22MAY24MFS-32.d	05/24/2022 13:58
DUP2_05112022	410-83867-8	22MAY24MFS-38.d	05/24/2022 15:14
EB_05112022	410-83867-9	22MAY24MFS-39.d	05/24/2022 15:27
	LCS 410-256033/2-A	22MAY31MFS-13.d	05/31/2022 17:46
MW-109S DL	410-83867-1 DL	22MAY31MFS-17.d	05/31/2022 18:36
MW-106S	410-83867-5	22MAY31MFS-18.d	05/31/2022 18:49
MW-106S MS	410-83867-5 MS	22MAY31MFS-19.d	05/31/2022 19:02
MW-106S MSD	410-83867-5 MSD	22MAY31MFS-20.d	05/31/2022 19:14
DUP1_05112022	410-83867-7	22MAY31MFS-21.d	05/31/2022 19:27

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-83867-1

SDG No.:

Lab File ID: 22MAY31MFS-23.d

Lab Sample ID: MB 410-259821/1-A

Matrix: Water

Date Extracted: 05/27/2022 13:26

Instrument ID: 30733

Date Analyzed: 05/31/2022 19:52

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-259821/2-A	22MAY31MFS-24.d	05/31/2022 20:05
MW106D	410-83867-6	22MAY31MFS-25.d	05/31/2022 20:17
MW106D MS	410-83867-6 MS	22MAY31MFS-26.d	05/31/2022 20:30
MW106D MSD	410-83867-6 MSD	22MAY31MFS-27.d	05/31/2022 20:43
MW-111S	410-83867-10	22MAY31MFS-28.d	05/31/2022 20:55
MW-111D	410-83867-11	22MAY31MFS-29.d	05/31/2022 21:08
EB_05122022	410-83867-12	22MAY31MFS-30.d	05/31/2022 21:20
MW-111S DL	410-83867-10 DL	22JUN01MFS-05.d	06/01/2022 10:44
MW-111D DL	410-83867-11 DL	22JUN01MFS-06.d	06/01/2022 10:56

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-83867-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 05/24/2022 08:41
 Calibration ID: 38942

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3420548	5.08				
UPPER LIMIT		5130822	5.48				
LOWER LIMIT		1710274	4.68				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-258360/8		2919153	5.07				
ICV 410-258360/9		2981765	5.08				
CCV 410-258462/1		3621049	5.07				
MB 410-256033/1-A		3090779	5.08				
CCV 410-258462/14		2710247	5.08				
410-83867-1	MW-109S	2208736	5.08				
410-83867-2	MW-109D	2477647	5.08				
410-83867-3	MW-124S	1856165	5.07				
410-83867-4	MW-124D	2297790	5.08				
CCV 410-258462/25		2221477	5.07				
410-83867-8	DUP2_05112022	2125887	5.07				
410-83867-9	EB_05112022	2258255	5.08				
CCV 410-258462/28		2655121	5.06				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-83867-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 05/31/2022 16:30
 Calibration ID: 39146

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		6381653	5.08				
UPPER LIMIT		9572480	5.48				
LOWER LIMIT		3190827	4.68				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-260443/8		4856868	5.07				
ICV 410-260443/9		4852670	5.08				
CCV 410-260445/1		8181829	5.08				
LCS 410-256033/2-A		5143384	5.09				
410-83867-1 DL	MW-109S DL	5125927	5.08				
410-83867-5	MW-106S	4958667	5.08				
410-83867-5 MS	MW-106S MS	3614374	5.08				
410-83867-5 MSD	MW-106S MSD	4374223	5.09				
410-83867-7	DUP1_05112022	4027768	5.08				
CCV 410-260445/11		6127094	5.08				
MB 410-259821/1-A		3741410	5.08				
LCS 410-259821/2-A		3910560	5.08				
410-83867-6	MW106D	3372397	5.07				
410-83867-6 MS	MW106D MS	3942871	5.08				
410-83867-6 MSD	MW106D MSD	3871723	5.08				
410-83867-10	MW-111S	3665145	5.08				
410-83867-11	MW-111D	3370668	5.08				
410-83867-12	EB_05122022	3883405	5.08				
CCV 410-260445/20		5643030	5.07				
CCV 410-260769/1		6513272	5.08				
410-83867-10 DL	MW-111S DL	4008062	5.08				
410-83867-11 DL	MW-111D DL	3539158	5.07				
CCV 410-260769/7		5151301	5.08				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S Lab Sample ID: 410-83867-1

Matrix: Water Lab File ID: 22MAY24MFS-29.d

Analysis Method: MFS Date Collected: 05/10/2022 16:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 257.4(mL) Date Analyzed: 05/24/2022 13:20

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	7.7	cn	0.97	0.19
STL02875	MFS_N3	12	cn	0.97	0.19
STL02876	MFS_M4	ND	cn	0.97	0.49
STL02877	MFS_N4	ND	cn	1.9	0.97
STL02888	MFS_N5	ND	cn	2.9	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-29.d
 Lims ID: 410-83867-B-1-A
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 24-May-2022 13:20:59 ALS Bottle#: 24 Worklist Smp#: 17
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 07:42:10
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.477	4.468	0.009	0.882	389481	3.90	77.9	3168
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.069	0.009		2208736	5.00		4451
3 MFS_N2	461.00 > 367.00	5.315	5.301	0.014	1.187	32619481	168.3		E 21490 E
4 MFS_M3	577.00 > 483.00	5.875	5.888	-0.013	1.312	291411	1.99		271
5 MFS_N3	627.00 > 533.00	6.088	6.091	-0.003	1.360	563739	2.97		454

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-29.d

Injection Date: 24-May-2022 13:20:59

Instrument ID: 30733

Lims ID: 410-83867-B-1-A

Lab Sample ID: 410-83867-1

Client ID: MW-109S

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

Worklist Smp#: 17

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

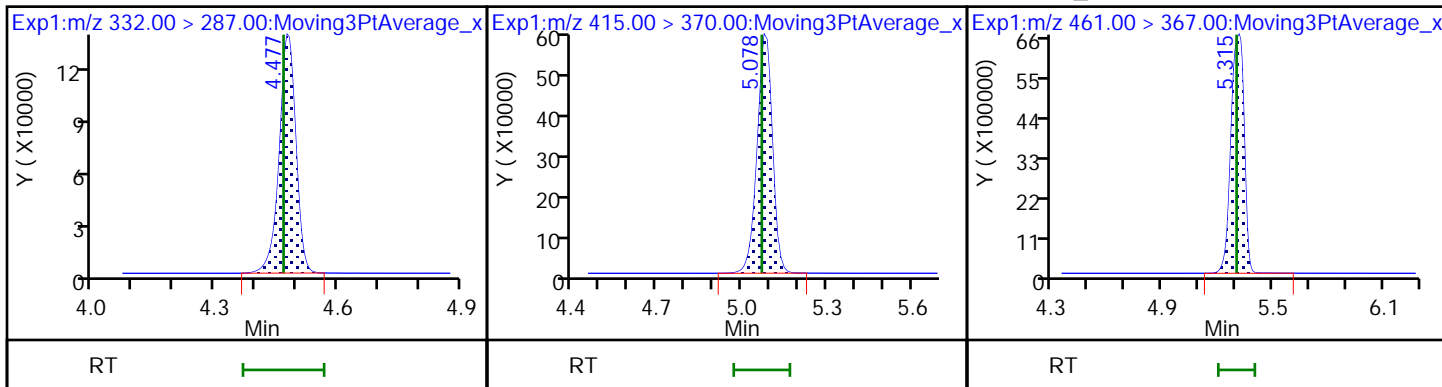
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

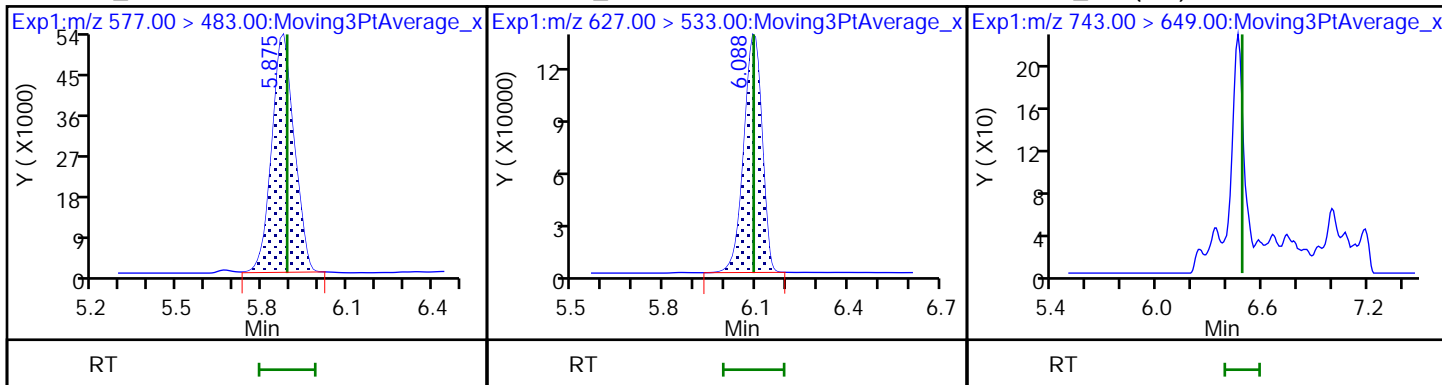
3 MFS_N2



4 MFS_M3

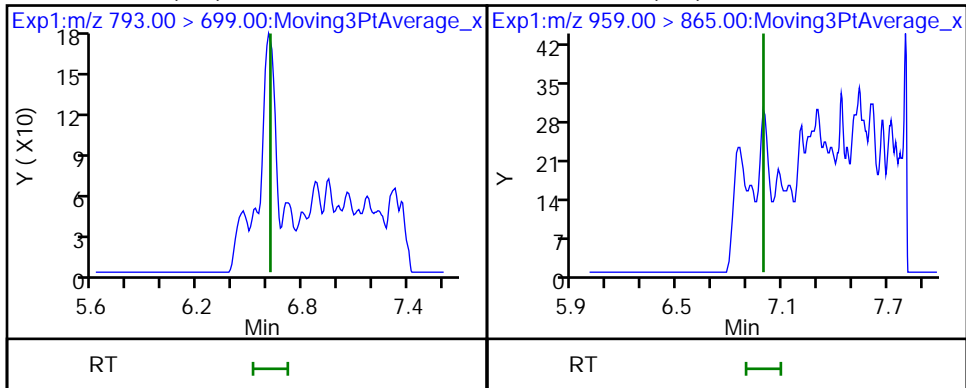
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S DL Lab Sample ID: 410-83867-1 DL

Matrix: Water Lab File ID: 22MAY31MFS-17.d

Analysis Method: MFS Date Collected: 05/10/2022 16:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 257.4(mL) Date Analyzed: 05/31/2022 18:36

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	640	cn	9.7	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-17.d
 Lims ID: 410-83867-B-1-A
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 31-May-2022 18:36:47 ALS Bottle#: 14 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83867-B-1-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:38:39
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.470	4.473	-0.003	0.881	74190	0.3659	73.2	734	M
* 2 13C2 PFOA									
415.00 > 370.00	5.075	5.069	0.006		5125927	5.00		2897	
3 MFS_N2									
461.00 > 367.00	5.302	5.301	0.001	1.186	6541325	16.5		7953	
4 MFS_M3									
577.00 > 483.00	5.867	5.886	-0.019	1.312	64121	0.2050		58.1	
5 MFS_N3									
627.00 > 533.00	6.091	6.088	0.003	1.362	138153	0.3353		197	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-17.d

Injection Date: 31-May-2022 18:36:47

Instrument ID: 30733

Lims ID: 410-83867-B-1-A

Lab Sample ID: 410-83867-1

Client ID: MW-109S

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

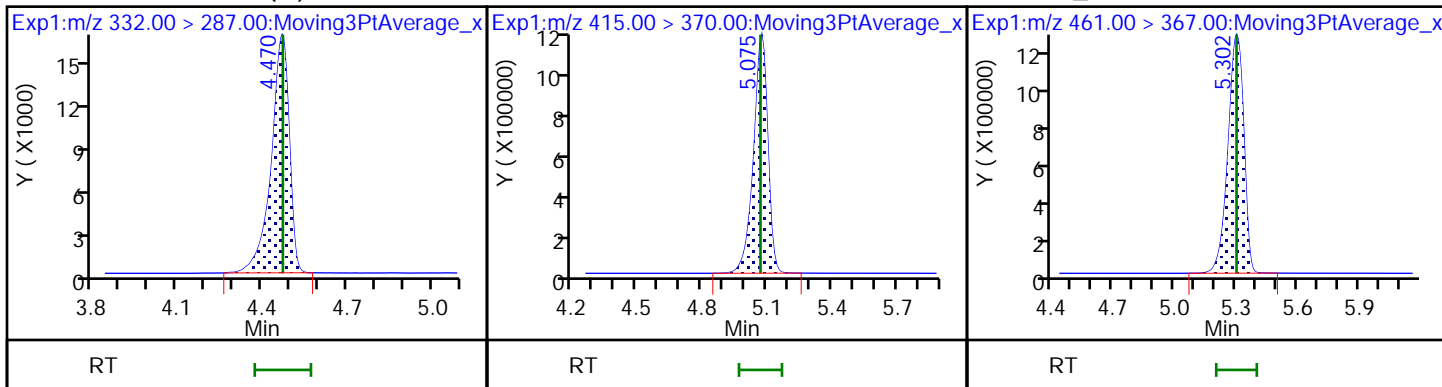
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

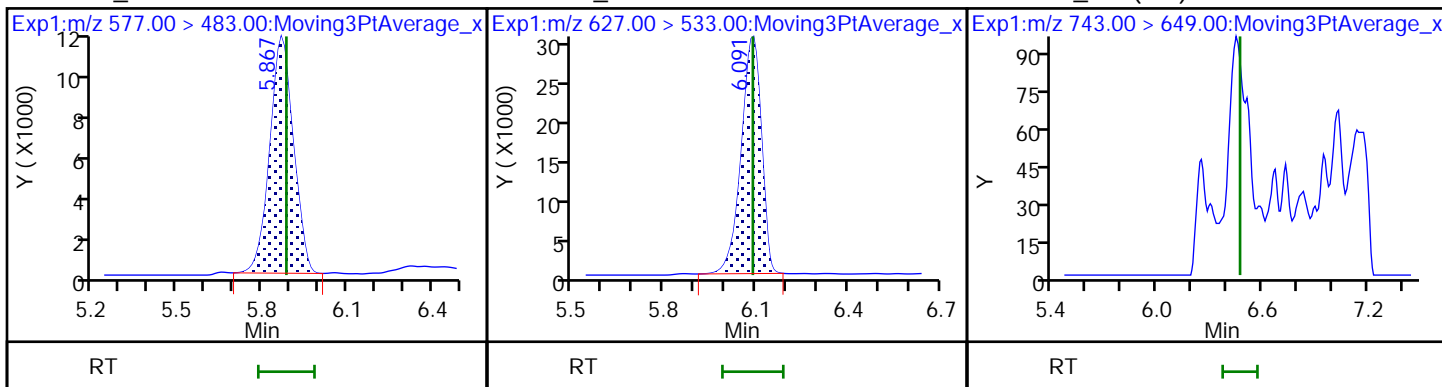
3 MFS_N2



4 MFS_M3

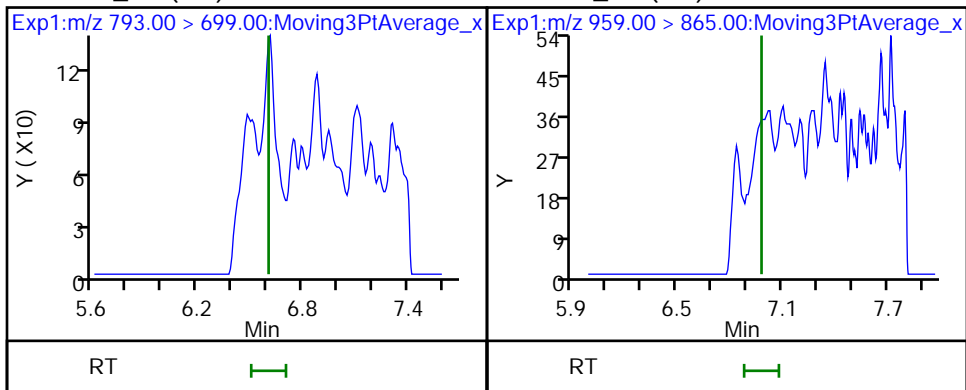
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

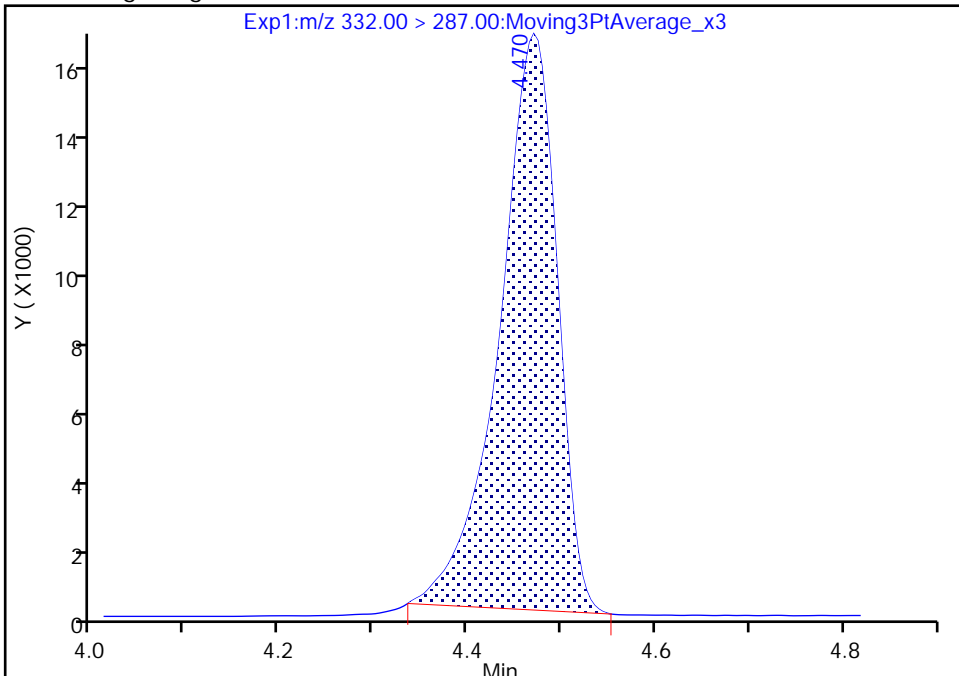
Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-17.d
Injection Date: 31-May-2022 18:36:47 Instrument ID: 30733
Lims ID: 410-83867-B-1-A Lab Sample ID: 410-83867-1
Client ID: MW-109S
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 10.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

D 1 13C3 HFPO-DA, CAS: STL02255

Signal: 1

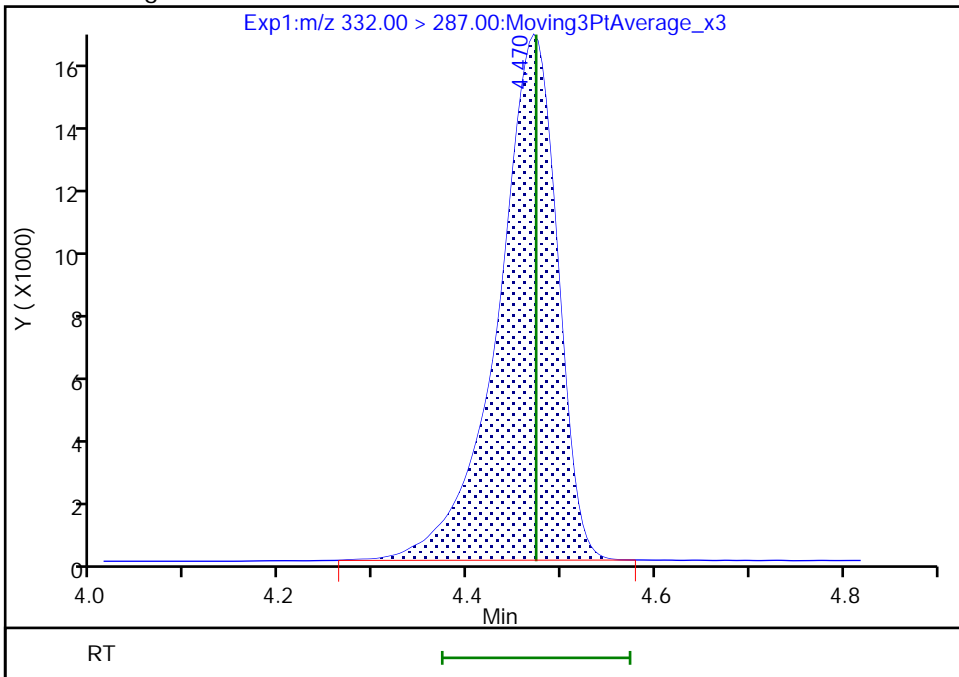
RT: 4.47
Area: 71345
Amount: 0.351858
Amount Units: ng/ml

Processing Integration Results



RT: 4.47
Area: 74190
Amount: 0.365889
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 06:38:34
Audit Action: Manually Integrated

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109D Lab Sample ID: 410-83867-2

Matrix: Water Lab File ID: 22MAY24MFS-30.d

Analysis Method: MFS Date Collected: 05/10/2022 16:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 292.7(mL) Date Analyzed: 05/24/2022 13:33

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1.6	cn	0.85	0.17
STL02874	MFS_M3	ND	cn	0.85	0.17
STL02875	MFS_N3	ND	cn	0.85	0.17
STL02876	MFS_M4	ND	cn	0.85	0.43
STL02877	MFS_N4	ND	cn	1.7	0.85
STL02888	MFS_N5	ND	cn	2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	80	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-30.d
 Lims ID: 410-83867-B-2-A
 Client ID: MW-109D
 Sample Type: Client
 Inject. Date: 24-May-2022 13:33:37 ALS Bottle#: 25 Worklist Smp#: 18
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 09:36:04
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.477	4.468	0.009	0.881	449001	4.00	80.1	3418
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		2477647	5.00		4960
3 MFS_N2	461.00 > 367.00	5.287	5.301	-0.014	1.181	101376	0.4538		126

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-30.d

Injection Date: 24-May-2022 13:33:37

Instrument ID: 30733

Lims ID: 410-83867-B-2-A

Lab Sample ID: 410-83867-2

Client ID: MW-109D

Operator ID: US19_USR_INS20260

ALS Bottle#: 25 Worklist Smp#: 18

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

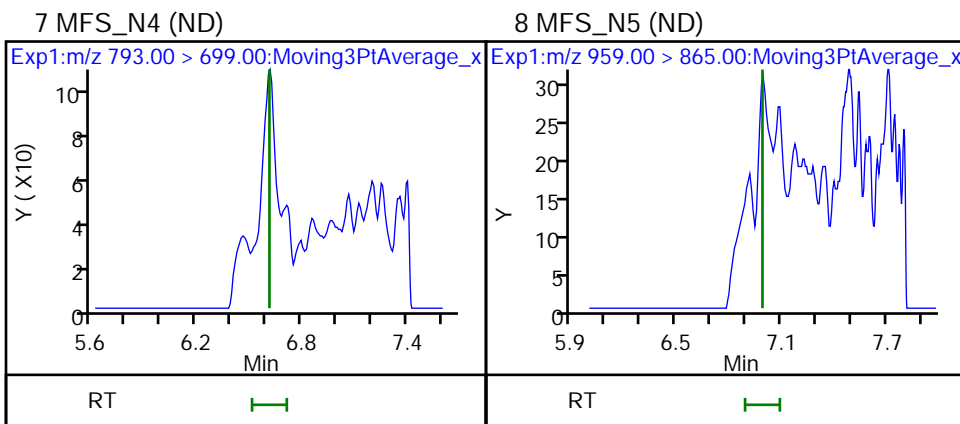
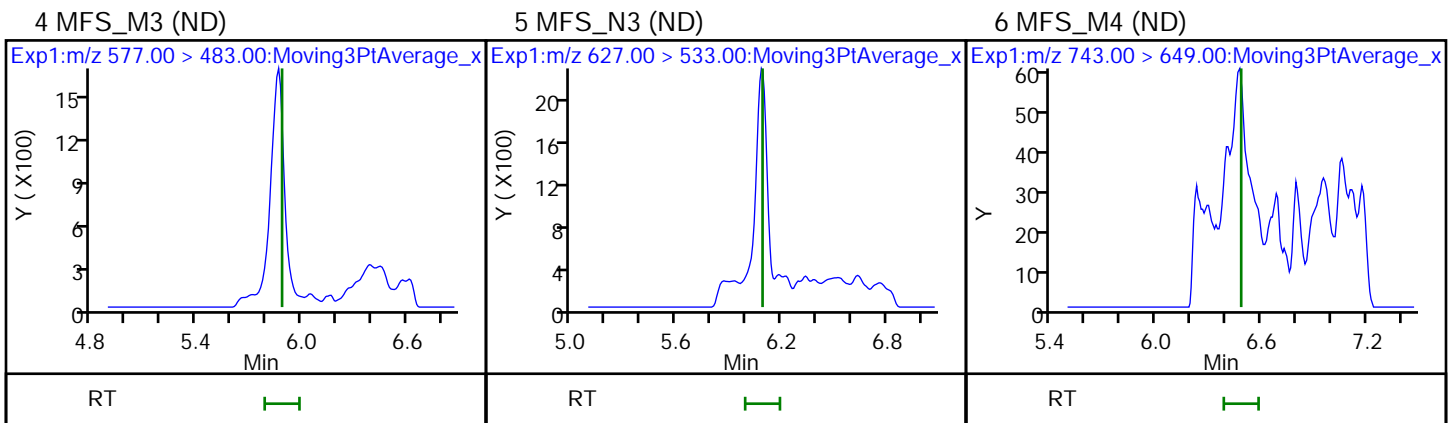
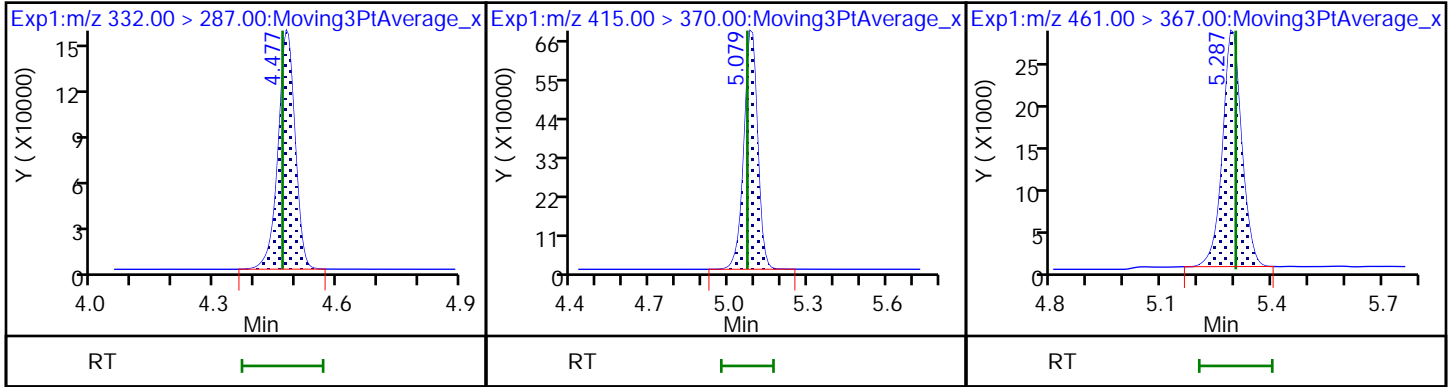
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-124S Lab Sample ID: 410-83867-3

Matrix: Water Lab File ID: 22MAY24MFS-31.d

Analysis Method: MFS Date Collected: 05/11/2022 10:10

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 269.3(mL) Date Analyzed: 05/24/2022 13:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	42	cn	0.93	0.19
STL02874	MFS_M3	0.69	J cn	0.93	0.19
STL02875	MFS_N3	ND	cn	0.93	0.19
STL02876	MFS_M4	ND	cn	0.93	0.46
STL02877	MFS_N4	ND	cn	1.9	0.93
STL02888	MFS_N5	ND	cn	2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	90	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-31.d
 Lims ID: 410-83867-B-3-A
 Client ID: MW-124S
 Sample Type: Client
 Inject. Date: 24-May-2022 13:46:11 ALS Bottle#: 26 Worklist Smp#: 19
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-3-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 09:36:31
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.476	4.468	0.008	0.883	378513	4.51	90.1	3060
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.069	0.0		1856165	5.00		3858
3 MFS_N2	461.00 > 367.00	5.293	5.301	-0.008	1.183	2125641	11.3		2179
4 MFS_M3	577.00 > 483.00	5.886	5.888	-0.002	1.315	26542	0.1866		29.2

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-31.d

Injection Date: 24-May-2022 13:46:11

Instrument ID: 30733

Lims ID: 410-83867-B-3-A

Lab Sample ID: 410-83867-3

Client ID: MW-124S

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 19

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

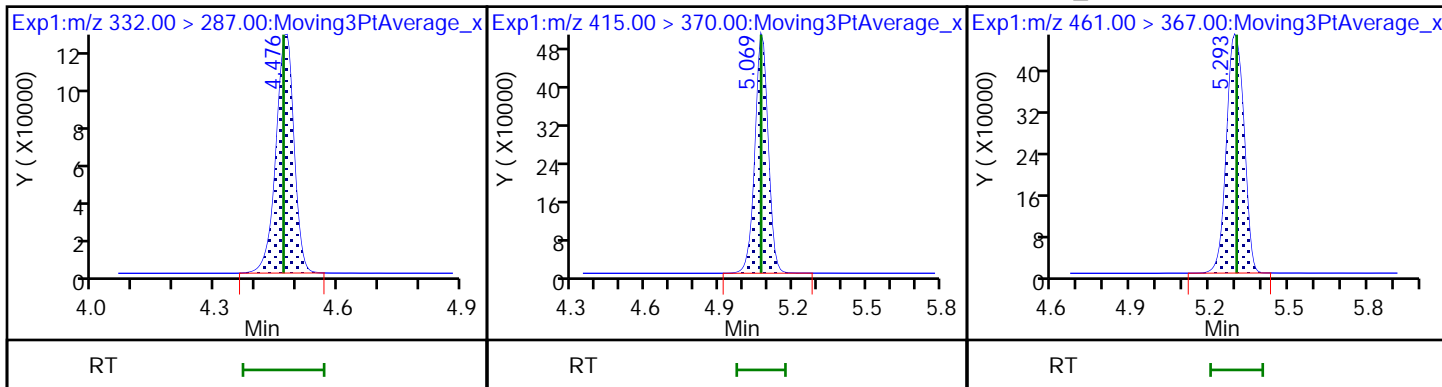
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

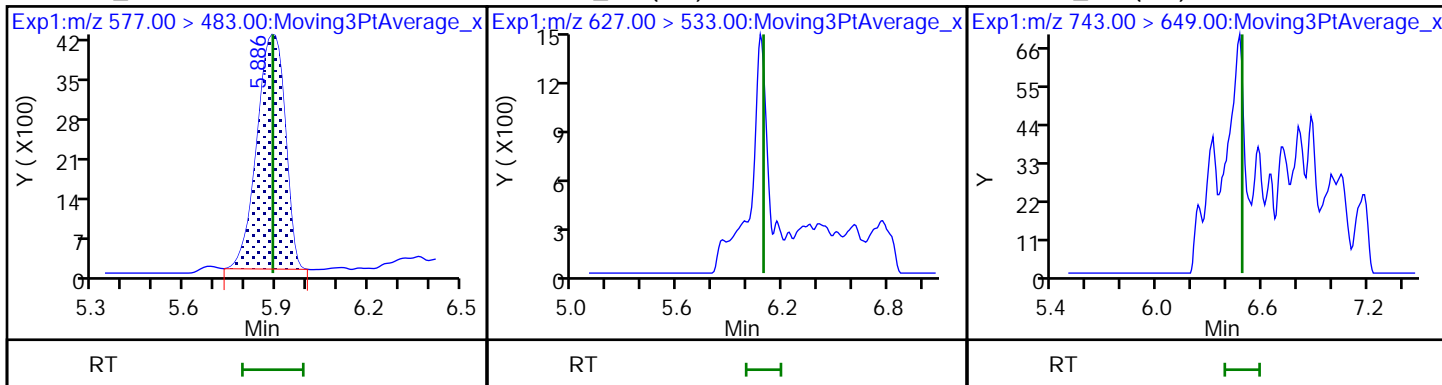
3 MFS_N2



4 MFS_M3

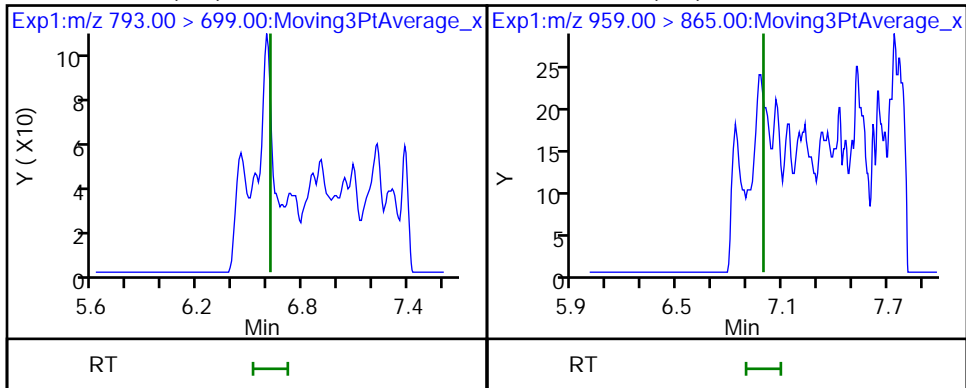
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-124D Lab Sample ID: 410-83867-4

Matrix: Water Lab File ID: 22MAY24MFS-32.d

Analysis Method: MFS Date Collected: 05/11/2022 10:10

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 293.8(mL) Date Analyzed: 05/24/2022 13:58

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	3.0	cn	0.85	0.17
STL02874	MFS_M3	ND	cn	0.85	0.17
STL02875	MFS_N3	ND	cn	0.85	0.17
STL02876	MFS_M4	ND	cn	0.85	0.43
STL02877	MFS_N4	ND	cn	1.7	0.85
STL02888	MFS_N5	ND	cn	2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-32.d
 Lims ID: 410-83867-B-4-A
 Client ID: MW-124D
 Sample Type: Client
 Inject. Date: 24-May-2022 13:58:45 ALS Bottle#: 27 Worklist Smp#: 20
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-4-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 09:36:39
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.477	4.468	0.009	0.881	430962	4.14	82.9	3830
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		2297790	5.00		4539
3 MFS_N2	461.00 > 367.00	5.309	5.301	0.008	1.186	187511	0.8744		205

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-32.d

Injection Date: 24-May-2022 13:58:45

Instrument ID: 30733

Lims ID: 410-83867-B-4-A

Lab Sample ID: 410-83867-4

Client ID: MW-124D

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 20

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

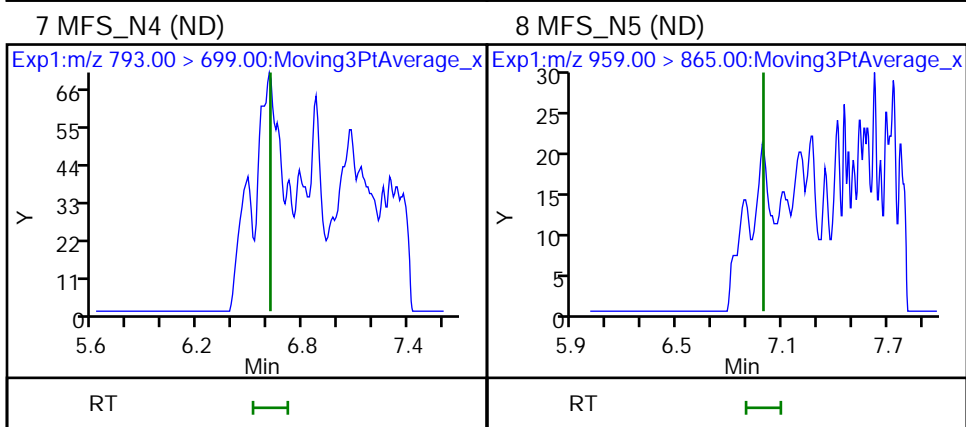
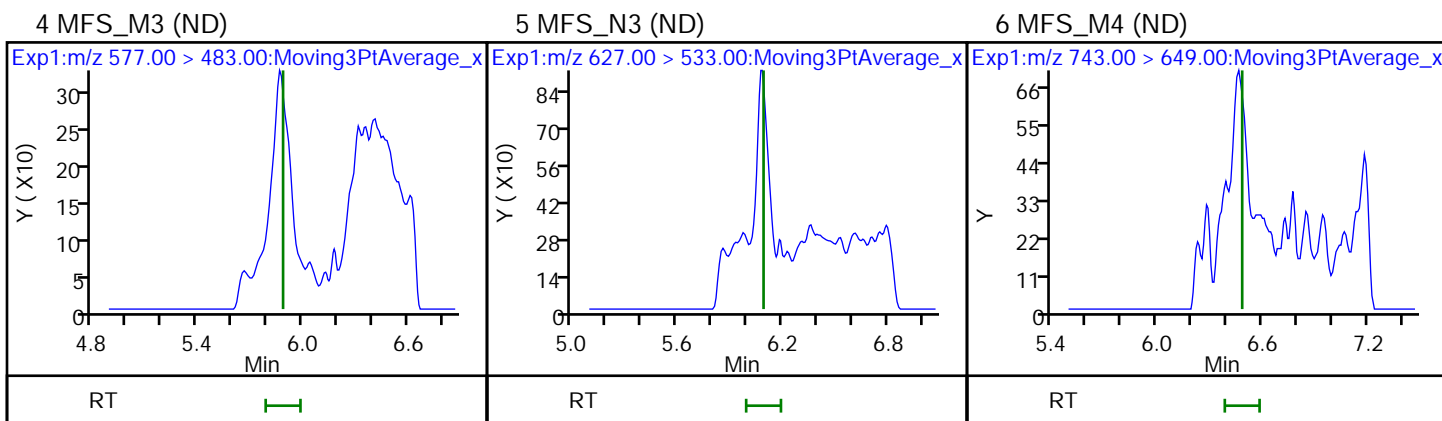
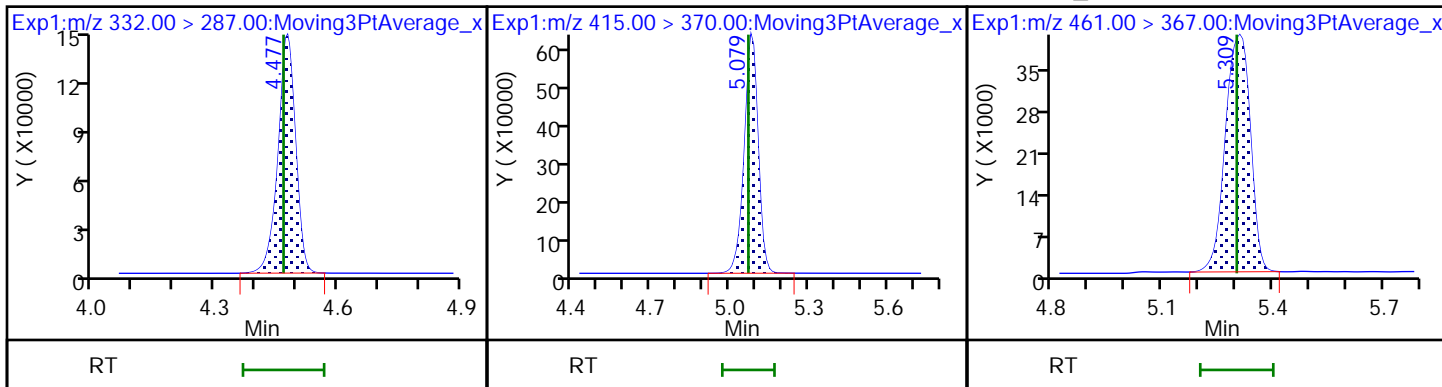
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S Lab Sample ID: 410-83867-5

Matrix: Water Lab File ID: 22MAY31MFS-18.d

Analysis Method: MFS Date Collected: 05/11/2022 13:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 262.3(mL) Date Analyzed: 05/31/2022 18:49

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	0.75	J F1	0.95	0.19
STL02874	MFS_M3	ND	F1	0.95	0.19
STL02875	MFS_N3	ND	F1	0.95	0.19
STL02876	MFS_M4	ND	F1	0.95	0.48
STL02877	MFS_N4	ND	F1	1.9	0.95
STL02888	MFS_N5	ND		2.9	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	64		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-18.d
 Lims ID: 410-83867-B-5-A
 Client ID: MW-106S
 Sample Type: Client
 Inject. Date: 31-May-2022 18:49:26 ALS Bottle#: 15 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-5-A RA
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:39:13
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.473	-0.001	0.881	630571	3.21	64.3	2670
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.069	0.009		4958667	5.00		3125
3 MFS_N2	461.00 > 367.00	5.300	5.301	-0.001	1.185	66485	0.1973		111
7 MFS_N4	793.00 > 699.00	6.603	6.605	-0.002	1.476	19577	0.1240		76.6

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-18.d

Injection Date: 31-May-2022 18:49:26

Instrument ID: 30733

Lims ID: 410-83867-B-5-A

Lab Sample ID: 410-83867-5

Client ID: MW-106S

Operator ID: US19_USR_INS20260

ALS Bottle#: 15

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

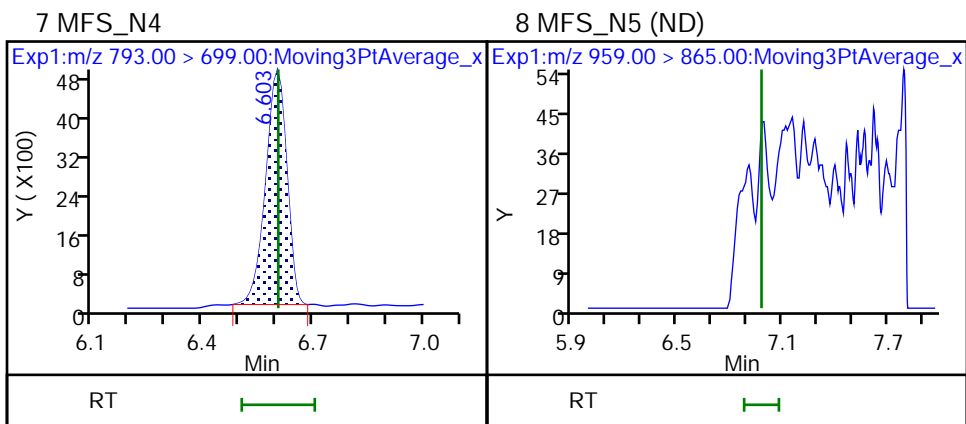
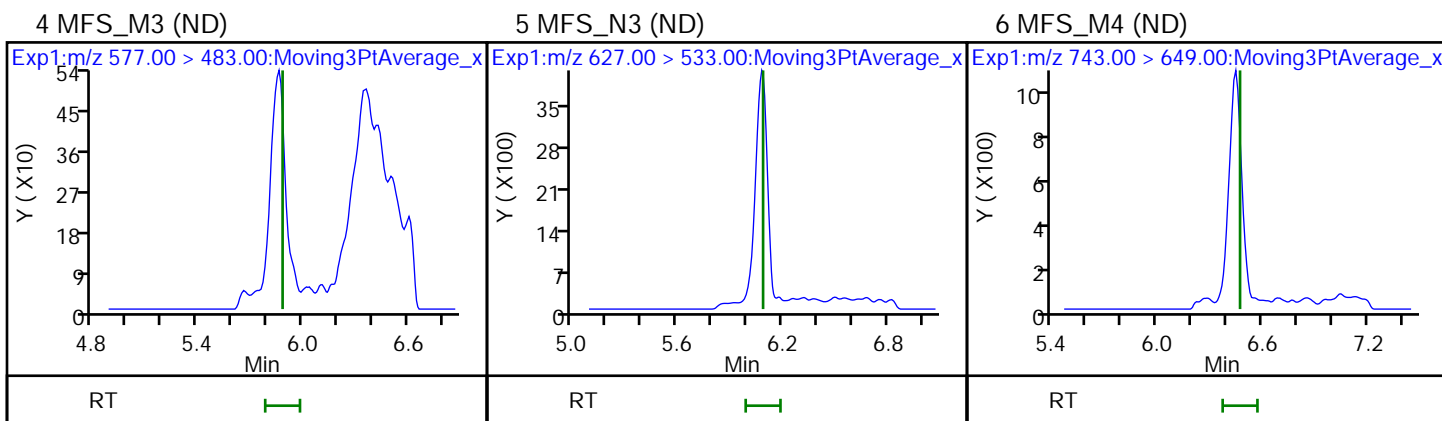
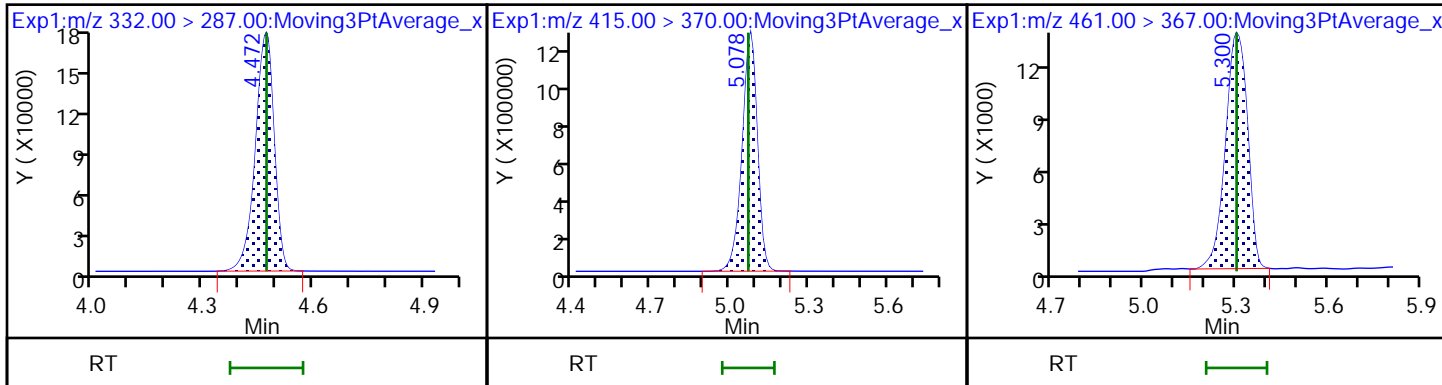
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW106D Lab Sample ID: 410-83867-6

Matrix: Water Lab File ID: 22MAY31MFS-25.d

Analysis Method: MFS Date Collected: 05/11/2022 13:05

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 294.7(mL) Date Analyzed: 05/31/2022 20:17

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	65	F1	0.85	0.17
STL02874	MFS_M3	16		0.85	0.17
STL02875	MFS_N3	40	F1	0.85	0.17
STL02876	MFS_M4	ND		0.85	0.42
STL02877	MFS_N4	ND		1.7	0.85
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-25.d
 Lims ID: 410-83867-B-6-A
 Client ID: MW106D
 Sample Type: Client
 Inject. Date: 31-May-2022 20:17:51 ALS Bottle#: 21 Worklist Smp#: 14
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-6-A
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:43:54
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.468	4.473	-0.005	0.881	611670	4.59	91.7	2439
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.069	0.0		3372397	5.00		3098
3 MFS_N2	461.00 > 367.00	5.301	5.301	0.0	1.186	6281585	19.2		9158
4 MFS_M3	577.00 > 483.00	5.857	5.886	-0.029	1.311	1209236	4.69		530
5 MFS_N3	627.00 > 533.00	6.083	6.088	-0.005	1.361	3967648	11.7		2427
6 MFS_M4	743.00 > 649.00	6.451	6.471	-0.020	1.444	14492	0.1049		76.9 M
7 MFS_N4	793.00 > 699.00	6.599	6.605	-0.006	1.477	37568	0.2454		152

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-25.d

Injection Date: 31-May-2022 20:17:51

Instrument ID: 30733

Lims ID: 410-83867-B-6-A

Lab Sample ID: 410-83867-6

Client ID: MW106D

Operator ID: US19_USR_INS20260

ALS Bottle#: 21

Worklist Smp#: 14

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

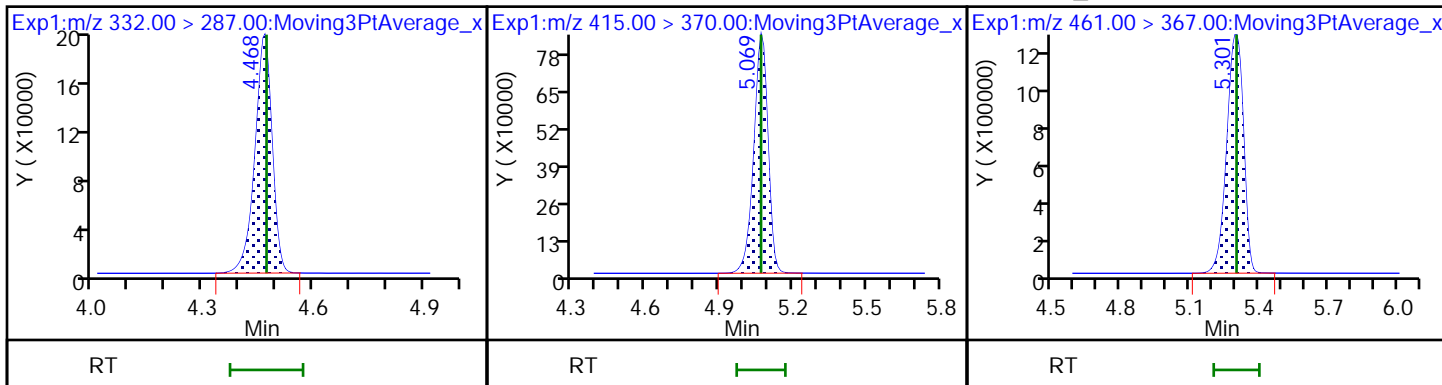
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

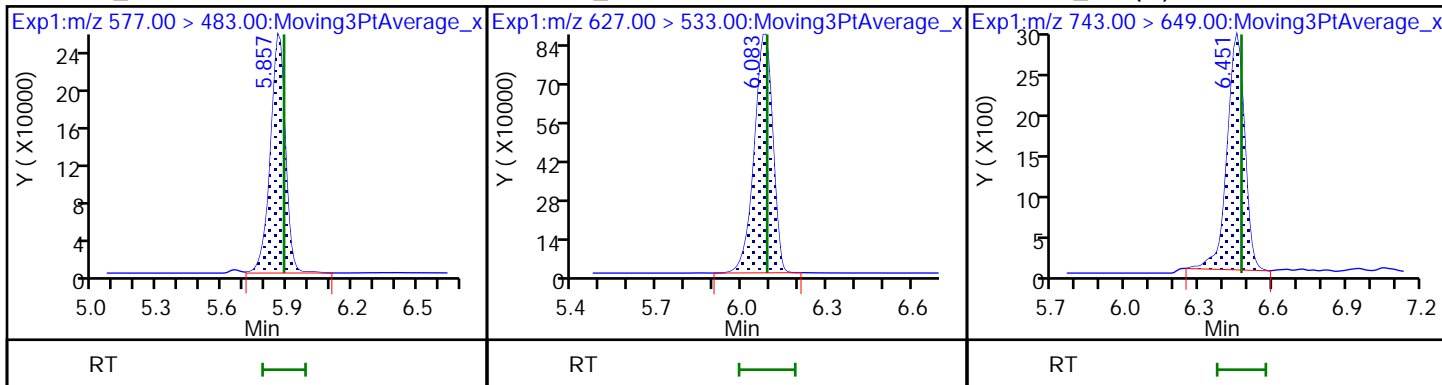
3 MFS_N2



4 MFS_M3

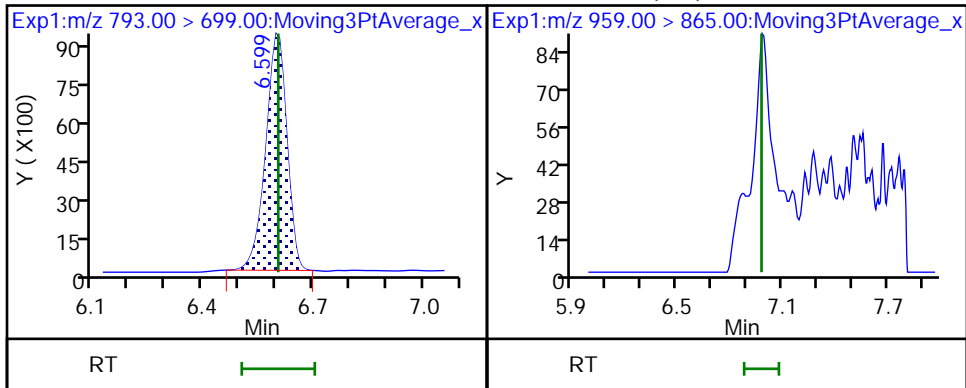
5 MFS_N3

6 MFS_M4 (M)



7 MFS_N4

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

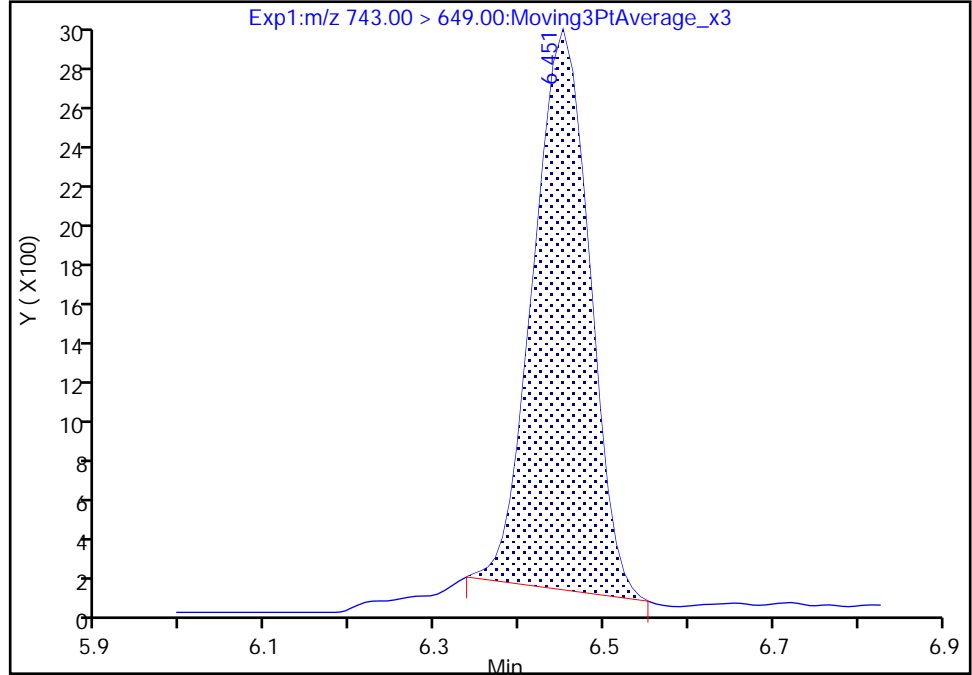
Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-25.d
Injection Date: 31-May-2022 20:17:51 Instrument ID: 30733
Lims ID: 410-83867-B-6-A Lab Sample ID: 410-83867-6
Client ID: MW106D
Operator ID: US19_USR_INS20260 ALS Bottle#: 21 Worklist Smp#: 14
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

6 MFS_M4, CAS: STL02876

Signal: 1

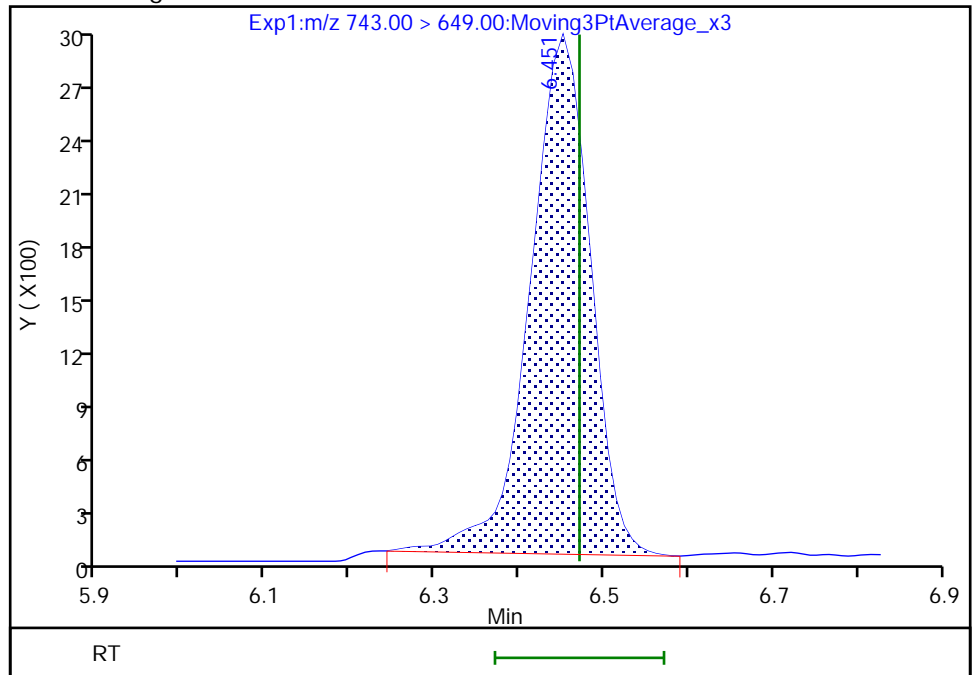
RT: 6.45
Area: 13209
Amount: 0.095582
Amount Units: ng/ml

Processing Integration Results



RT: 6.45
Area: 14492
Amount: 0.104866
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP1_05112022 Lab Sample ID: 410-83867-7

Matrix: Water Lab File ID: 22MAY31MFS-21.d

Analysis Method: MFS Date Collected: 05/11/2022 00:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 301.9(mL) Date Analyzed: 05/31/2022 19:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	77		0.83	0.17
STL02874	MFS_M3	18		0.83	0.17
STL02875	MFS_N3	44		0.83	0.17
STL02876	MFS_M4	0.48	J	0.83	0.41
STL02877	MFS_N4	1.3	J	1.7	0.83
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-21.d
 Lims ID: 410-83867-B-7-A
 Client ID: DUP1_05112022
 Sample Type: Client
 Inject. Date: 31-May-2022 19:27:20 ALS Bottle#: 18 Worklist Smp#: 10
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-7-A RA
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:39:58
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.475	4.473	0.002	0.881	517525	3.25	65.0	2066
* 2 13C2 PFOA	415.00 > 370.00	5.077	5.069	0.008		4027768	5.00		3578
3 MFS_N2	461.00 > 367.00	5.304	5.301	0.003	1.185	6401742	23.1		8625
4 MFS_M3	577.00 > 483.00	5.870	5.886	-0.016	1.312	1158020	5.31		470
5 MFS_N3	627.00 > 533.00	6.086	6.088	-0.002	1.360	3825623	13.3		2748
6 MFS_M4	743.00 > 649.00	6.457	6.471	-0.014	1.443	17011	0.1455		94.9 M
7 MFS_N4	793.00 > 699.00	6.605	6.605	0.0	1.476	50255	0.3882		200

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-21.d

Injection Date: 31-May-2022 19:27:20

Instrument ID: 30733

Lims ID: 410-83867-B-7-A

Lab Sample ID: 410-83867-7

Client ID: DUP1_05112022

Operator ID: US19_USR_INS20260

ALS Bottle#: 18

Worklist Smp#: 10

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

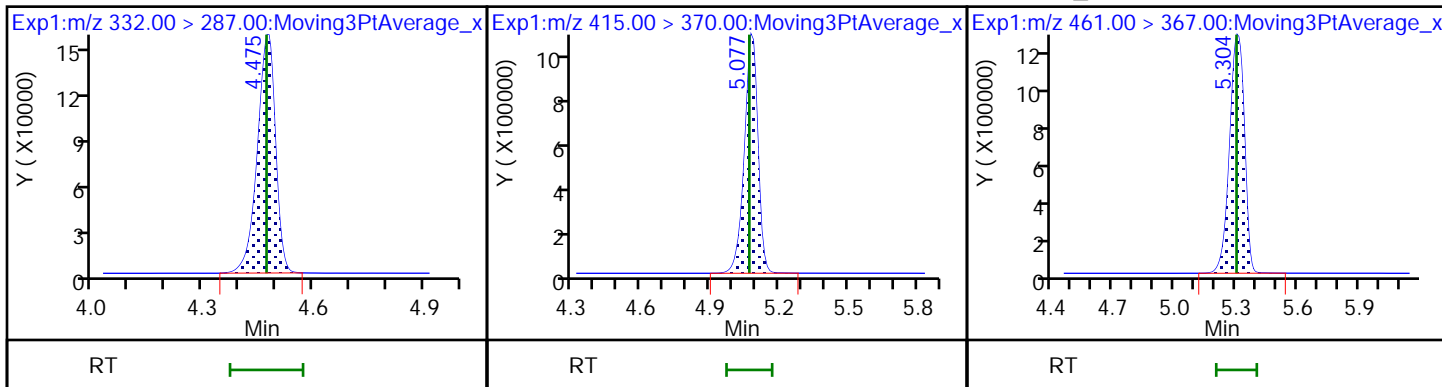
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

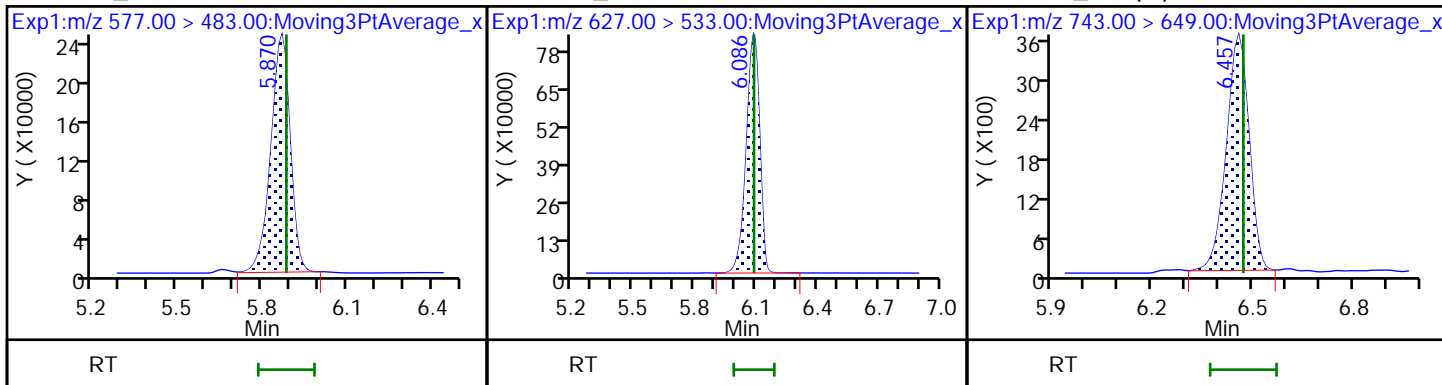
3 MFS_N2



4 MFS_M3

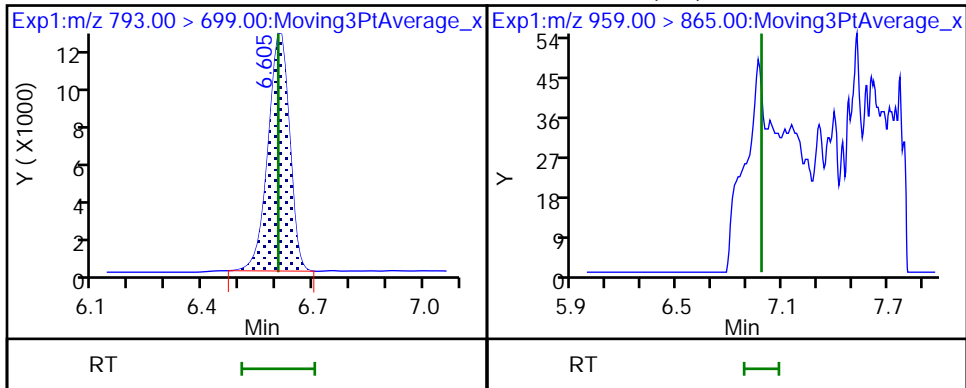
5 MFS_N3

6 MFS_M4 (M)



7 MFS_N4

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

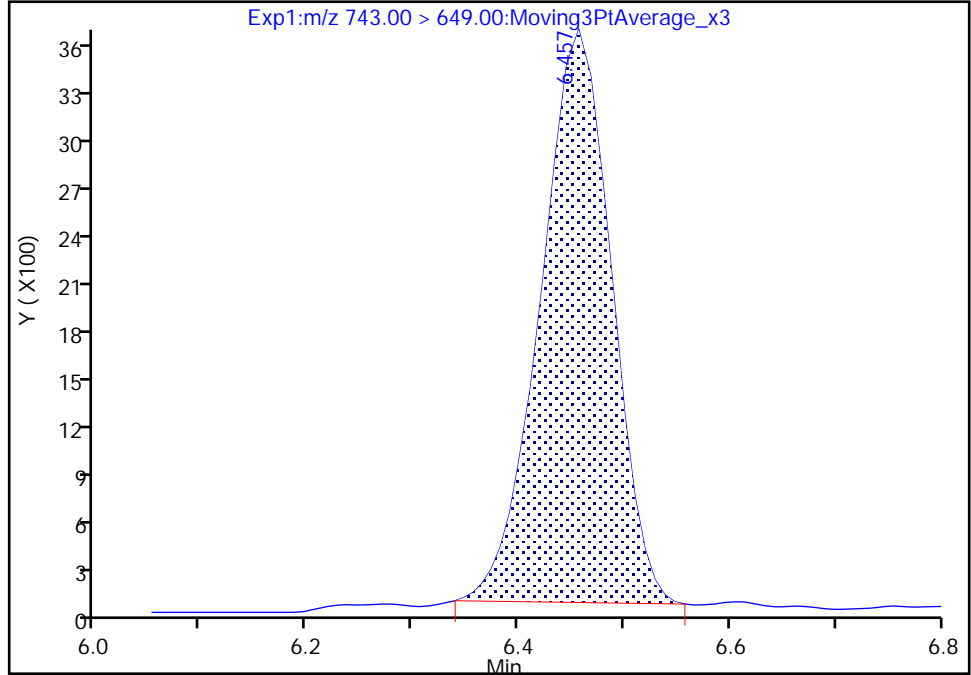
Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-21.d
Injection Date: 31-May-2022 19:27:20 Instrument ID: 30733
Lims ID: 410-83867-B-7-A Lab Sample ID: 410-83867-7
Client ID: DUP1_05112022
Operator ID: US19_USR_INS20260 ALS Bottle#: 18 Worklist Smp#: 10
Injection Vol: 15.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

6 MFS_M4, CAS: STL02876

Signal: 1

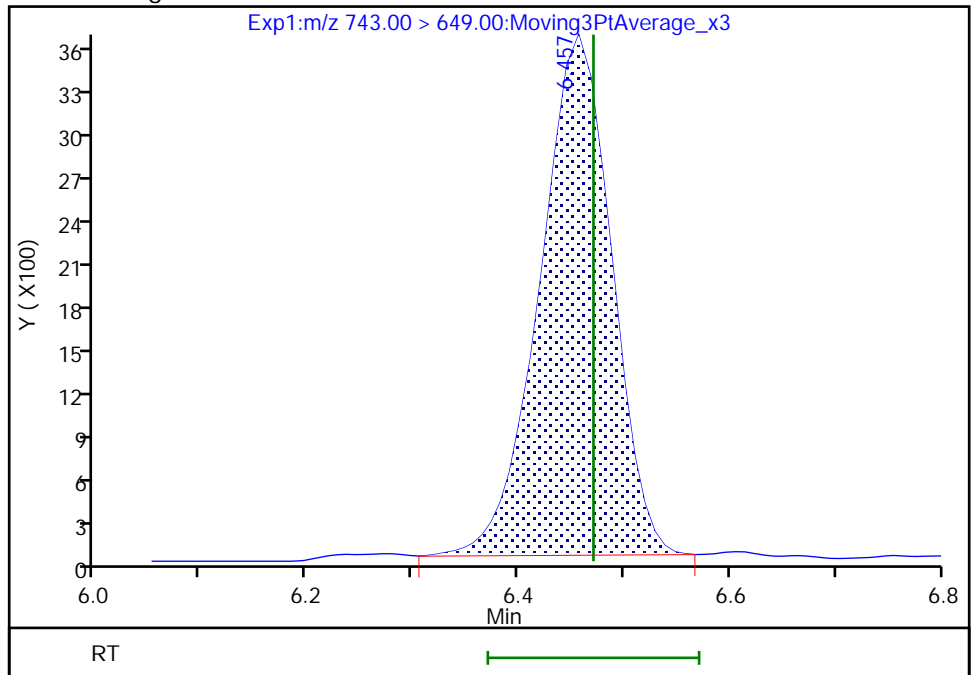
RT: 6.46
Area: 16697
Amount: 0.142801
Amount Units: ng/ml

Processing Integration Results



RT: 6.46
Area: 17011
Amount: 0.145486
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 06:39:55
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 352 of 512

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP2_05112022 Lab Sample ID: 410-83867-8

Matrix: Water Lab File ID: 22MAY24MFS-38.d

Analysis Method: MFS Date Collected: 05/11/2022 00:00

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 261.2 (mL) Date Analyzed: 05/24/2022 15:14

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1.2		0.96	0.19
STL02874	MFS_M3	ND		0.96	0.19
STL02875	MFS_N3	0.40	J	0.96	0.19
STL02876	MFS_M4	ND		0.96	0.48
STL02877	MFS_N4	ND		1.9	0.96
STL02888	MFS_N5	ND		2.9	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-38.d
 Lims ID: 410-83867-B-8-A
 Client ID: DUP2_05112022
 Sample Type: Client
 Inject. Date: 24-May-2022 15:14:26 ALS Bottle#: 32 Worklist Smp#: 26
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-8-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-026
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:36 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 09:37:37
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.469	4.468	0.001	0.881	310811	3.23	64.6	4219
* 2 13C2 PFOA	415.00 > 370.00	5.070	5.069	0.001		2125887	5.00		4029
3 MFS_N2	461.00 > 367.00	5.309	5.301	0.008	1.188	46796	0.3026		70.5
5 MFS_N3	627.00 > 533.00	6.076	6.091	-0.015	1.360	15746	0.1041		20.3
7 MFS_N4	793.00 > 699.00	6.600	6.616	-0.016	1.477	9696	0.1731		85.5

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-38.d

Injection Date: 24-May-2022 15:14:26

Instrument ID: 30733

Lims ID: 410-83867-B-8-A

Lab Sample ID: 410-83867-8

Client ID: DUP2_05112022

Operator ID: US19_USR_INS20260

ALS Bottle#: 32

Worklist Smp#: 26

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

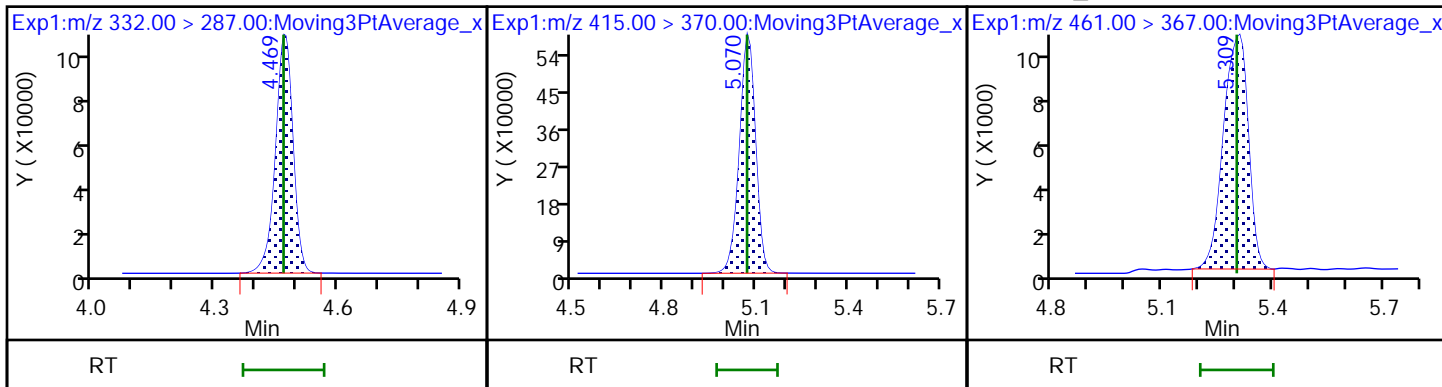
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

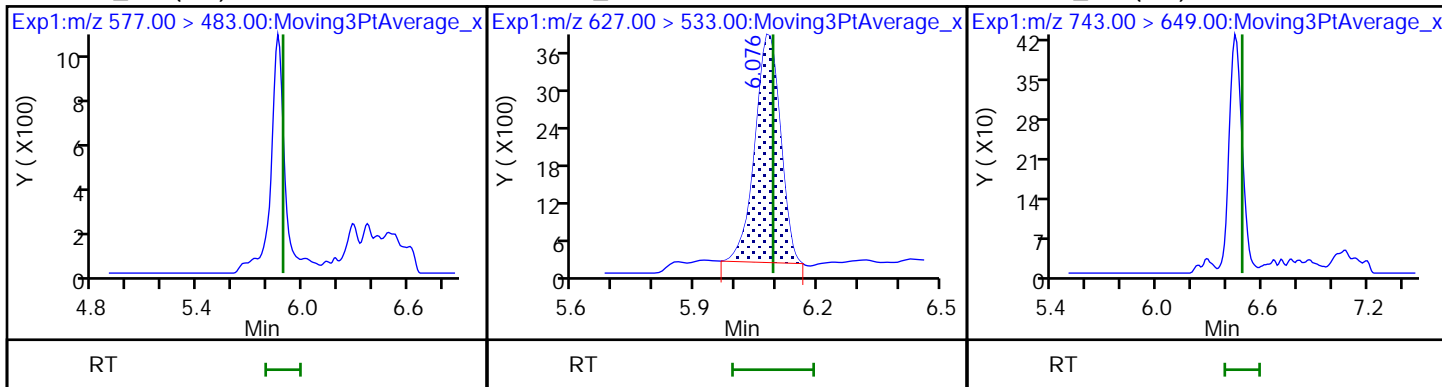
3 MFS_N2



4 MFS_M3 (ND)

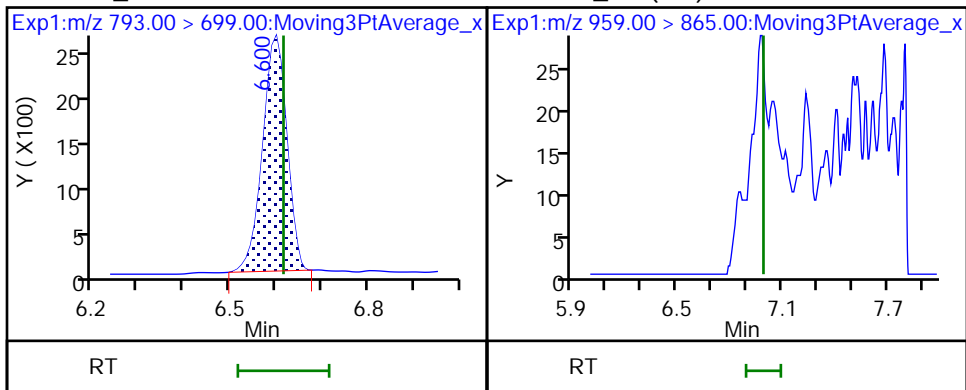
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_05112022 Lab Sample ID: 410-83867-9

Matrix: Water Lab File ID: 22MAY24MFS-39.d

Analysis Method: MFS Date Collected: 05/11/2022 12:45

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 261.4(mL) Date Analyzed: 05/24/2022 15:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.96	0.19
STL02874	MFS_M3	ND		0.96	0.19
STL02875	MFS_N3	ND		0.96	0.19
STL02876	MFS_M4	ND		0.96	0.48
STL02877	MFS_N4	ND		1.9	0.96
STL02888	MFS_N5	ND		2.9	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-39.d
 Lims ID: 410-83867-B-9-A
 Client ID: EB_05112022
 Sample Type: Client
 Inject. Date: 24-May-2022 15:27:03 ALS Bottle#: 33 Worklist Smp#: 27
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-9-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-027
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:36 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruehle Date: 25-May-2022 09:40:22
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.468	0.005	0.881	339871	3.33	66.5	4020
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		2258255	5.00		4931

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-39.d

Injection Date: 24-May-2022 15:27:03

Instrument ID: 30733

Lims ID: 410-83867-B-9-A

Lab Sample ID: 410-83867-9

Client ID: EB_05112022

Operator ID: US19_USR_INS20260

ALS Bottle#: 33

Worklist Smp#: 27

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

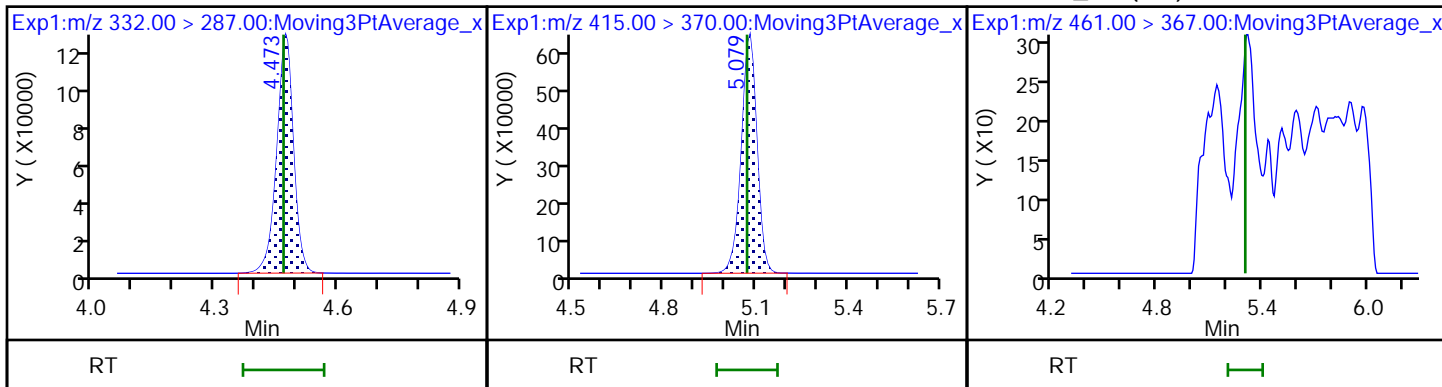
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

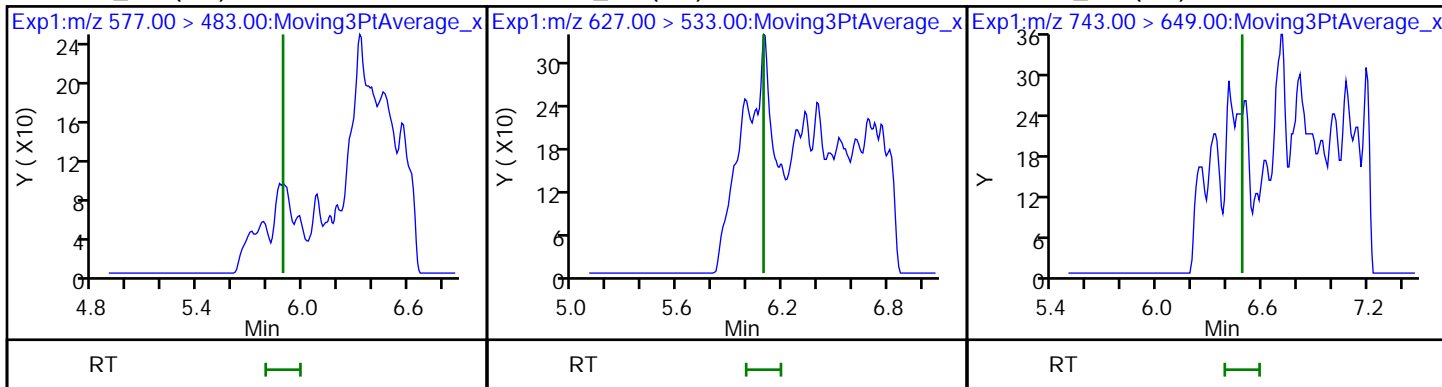
3 MFS_N2 (ND)



4 MFS_M3 (ND)

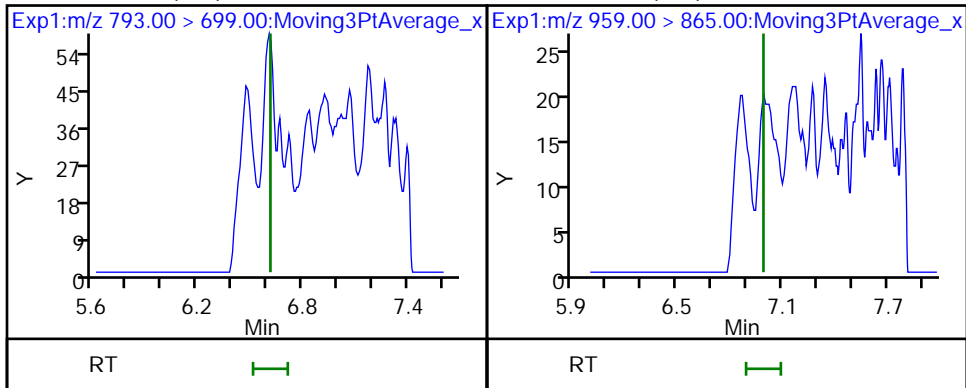
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S Lab Sample ID: 410-83867-10

Matrix: Water Lab File ID: 22MAY31MFS-28.d

Analysis Method: MFS Date Collected: 05/12/2022 10:35

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 290 (mL) Date Analyzed: 05/31/2022 20:55

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	29		0.86	0.17
STL02875	MFS_N3	11		0.86	0.17
STL02876	MFS_M4	ND		0.86	0.43
STL02877	MFS_N4	ND		1.7	0.86
STL02888	MFS_N5	ND		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-28.d
 Lims ID: 410-83867-B-10-A
 Client ID: MW-111S
 Sample Type: Client
 Inject. Date: 31-May-2022 20:55:41 ALS Bottle#: 24 Worklist Smp#: 17
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-10-A
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:44:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.478	4.473	0.005	0.882	658002	4.54	90.8	2152
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		3665145	5.00		2705
3 MFS_N2	461.00 > 367.00	5.302	5.301	0.001	1.184	90373764	257.0	20200	E
4 MFS_M3	577.00 > 483.00	5.868	5.886	-0.018	1.310	2319656	8.36	886	
5 MFS_N3	627.00 > 533.00	6.083	6.088	-0.005	1.358	1134983	3.11	1050	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-28.d

Injection Date: 31-May-2022 20:55:41

Instrument ID: 30733

Lims ID: 410-83867-B-10-A

Lab Sample ID: 410-83867-10

Client ID: MW-111S

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

Worklist Smp#: 17

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

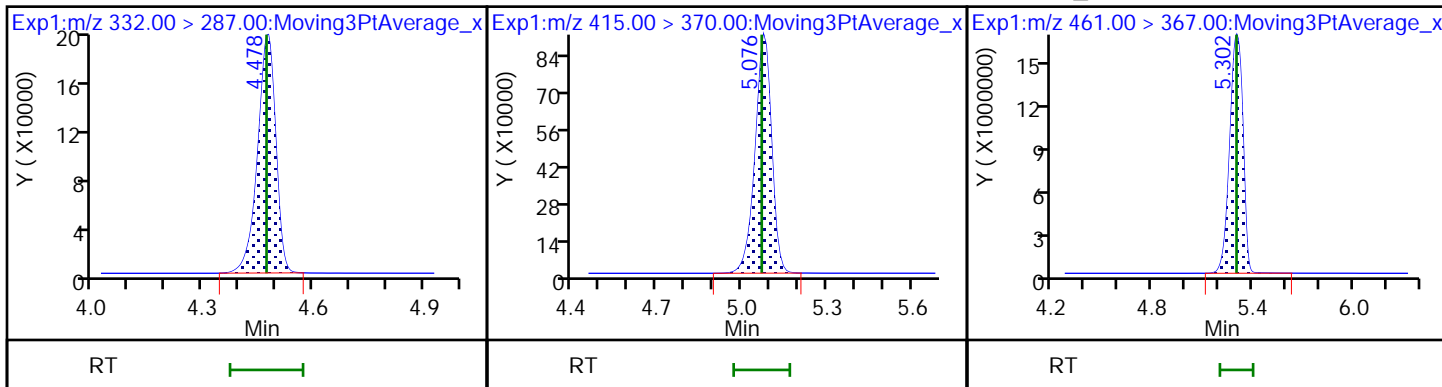
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

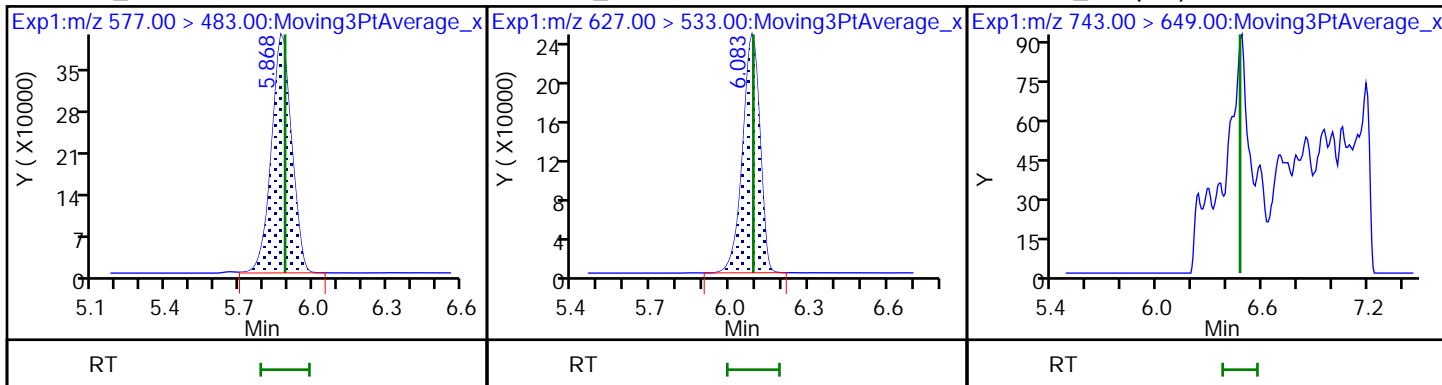
3 MFS_N2



4 MFS_M3

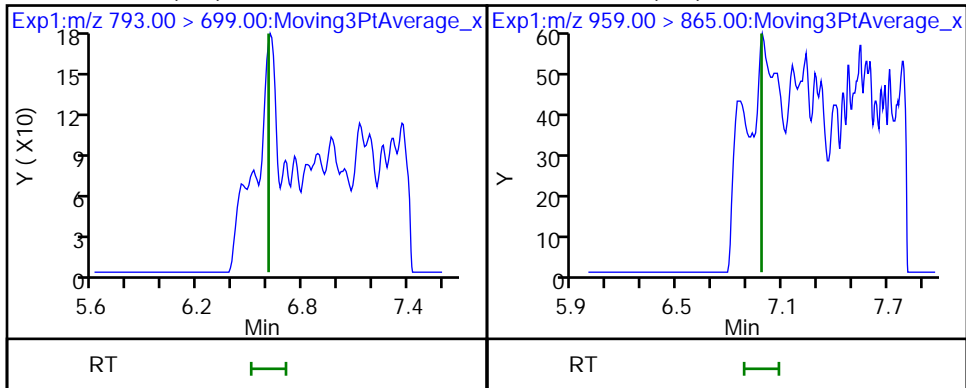
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S DL Lab Sample ID: 410-83867-10 DL

Matrix: Water Lab File ID: 22JUN01MFS-05.d

Analysis Method: MFS Date Collected: 05/12/2022 10:35

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 290 (mL) Date Analyzed: 06/01/2022 10:44

Con. Extract Vol.: 1 (mL) Dilution Factor: 10

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260769 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1100		8.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-05.d
 Lims ID: 410-83867-B-10-A
 Client ID: MW-111S
 Sample Type: Client
 Inject. Date: 01-Jun-2022 10:44:03 ALS Bottle#: 30 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83867-B-10-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0058483-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 13:04:15 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:03:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.469	4.472	-0.003	0.881	81715	0.5154	103	676	M
* 2 13C2 PFOA									
415.00 > 370.00	5.076	5.075	0.001		4008062	5.00		2482	
3 MFS_N2									
461.00 > 367.00	5.303	5.308	-0.005	1.186	13435837	30.8		13197	
4 MFS_M3									
577.00 > 483.00	5.869	5.892	-0.023	1.313	255927	0.7429		225	
5 MFS_N3									
627.00 > 533.00	6.085	6.090	-0.005	1.361	133508	0.2942		254	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-05.d

Injection Date: 01-Jun-2022 10:44:03

Instrument ID: 30733

Lims ID: 410-83867-B-10-A

Lab Sample ID: 410-83867-10

Client ID: MW-111S

Operator ID: US19_USR_INS20260

ALS Bottle#: 30 Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

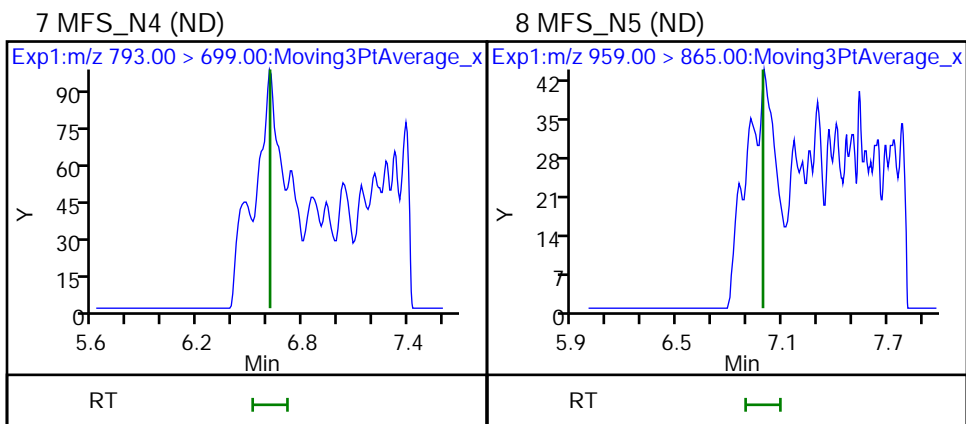
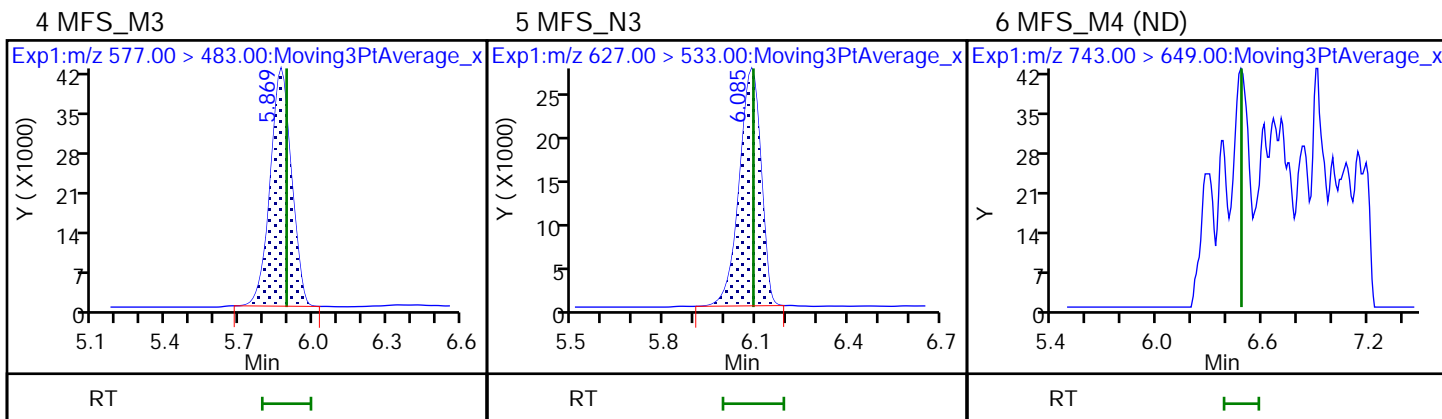
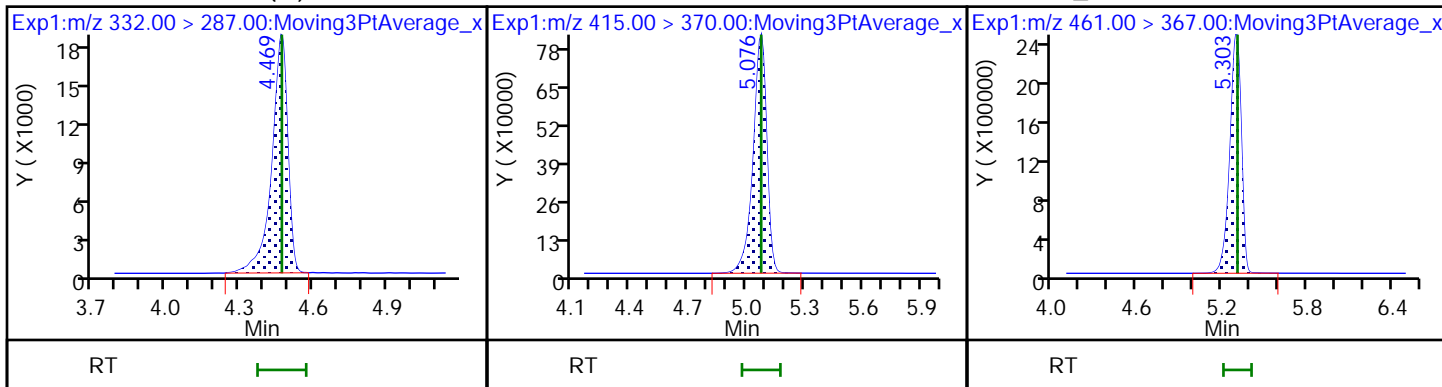
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

3 MFS_N2



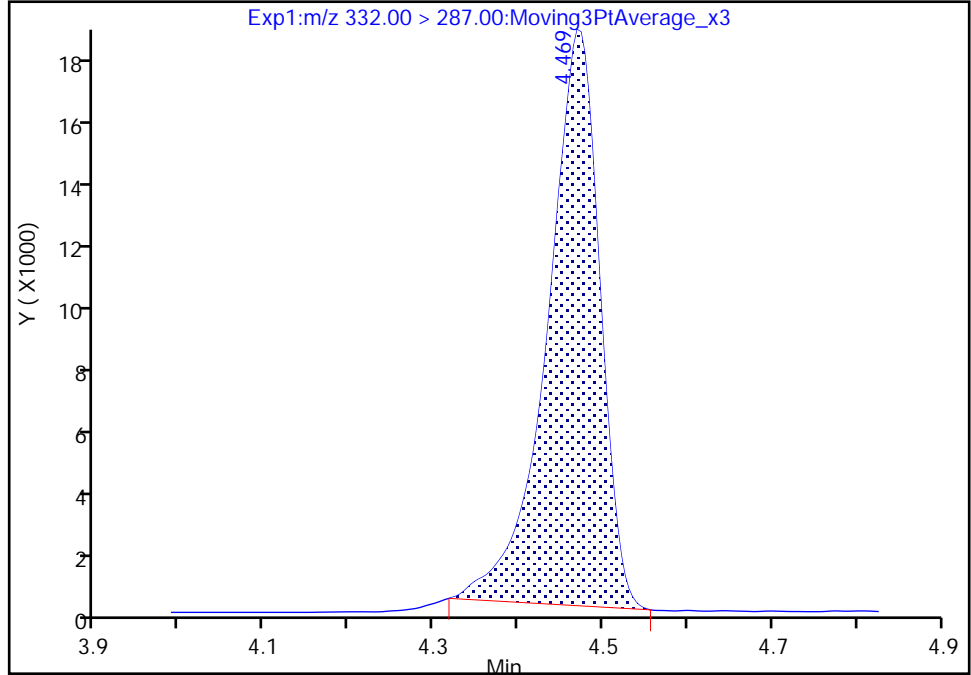
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-05.d
Injection Date: 01-Jun-2022 10:44:03 Instrument ID: 30733
Lims ID: 410-83867-B-10-A Lab Sample ID: 410-83867-10
Client ID: MW-111S
Operator ID: US19_USR_INS20260 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 15.0 ul Dil. Factor: 10.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

D 1 13C3 HFPO-DA, CAS: STL02255
Signal: 1

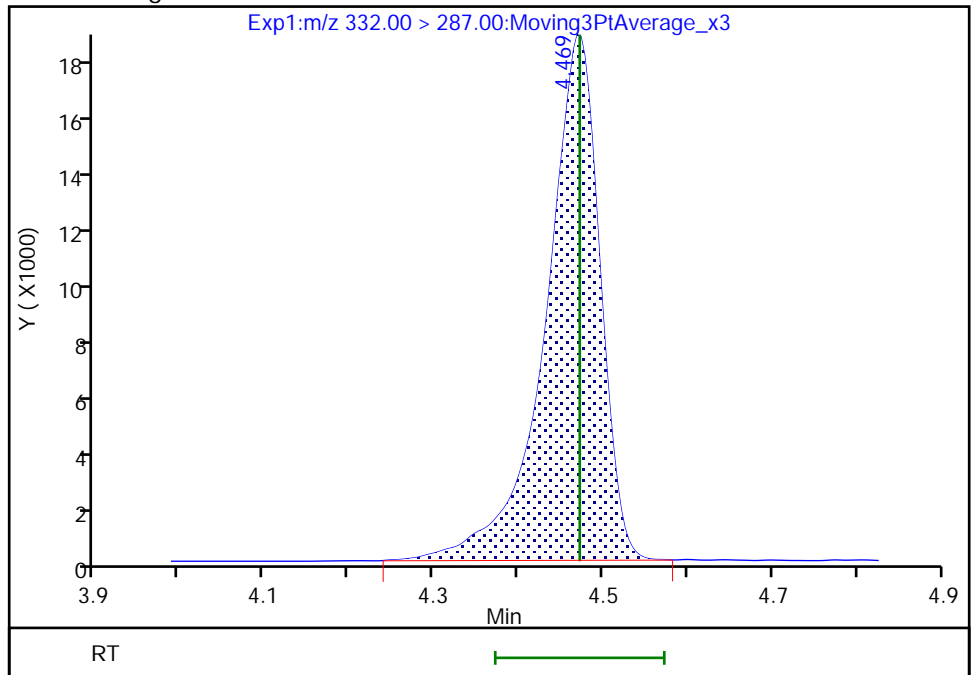
RT: 4.47
Area: 77687
Amount: 0.489993
Amount Units: ng/ml

Processing Integration Results



RT: 4.47
Area: 81715
Amount: 0.515399
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D Lab Sample ID: 410-83867-11

Matrix: Water Lab File ID: 22MAY31MFS-29.d

Analysis Method: MFS Date Collected: 05/12/2022 11:10

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 304(mL) Date Analyzed: 05/31/2022 21:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	1.9		0.82	0.16
STL02875	MFS_N3	ND		0.82	0.16
STL02876	MFS_M4	ND		0.82	0.41
STL02877	MFS_N4	ND		1.6	0.82
STL02888	MFS_N5	ND		2.5	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-29.d
 Lims ID: 410-83867-B-11-A
 Client ID: MW-111D
 Sample Type: Client
 Inject. Date: 31-May-2022 21:08:18 ALS Bottle#: 25 Worklist Smp#: 18
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-11-A
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:44:30
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.473	-0.001	0.881	623568	4.68	93.5	2245
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.069	0.009		3370668	5.00		2770
3 MFS_N2	461.00 > 367.00	5.300	5.301	-0.001	1.185	24627417	73.9	11088	E
4 MFS_M3	577.00 > 483.00	5.875	5.886	-0.011	1.314	151131	0.5749	113	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-29.d

Injection Date: 31-May-2022 21:08:18

Instrument ID: 30733

Lims ID: 410-83867-B-11-A

Lab Sample ID: 410-83867-11

Client ID: MW-111D

Operator ID: US19_USR_INS20260

ALS Bottle#: 25 Worklist Smp#: 18

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

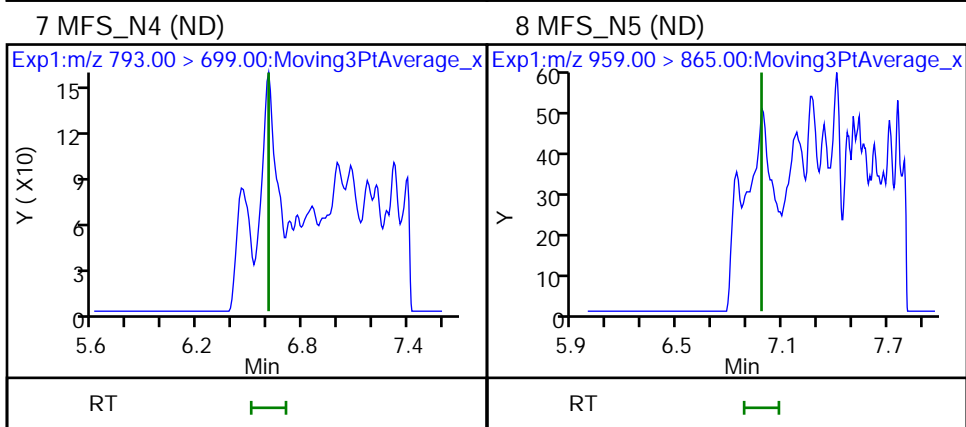
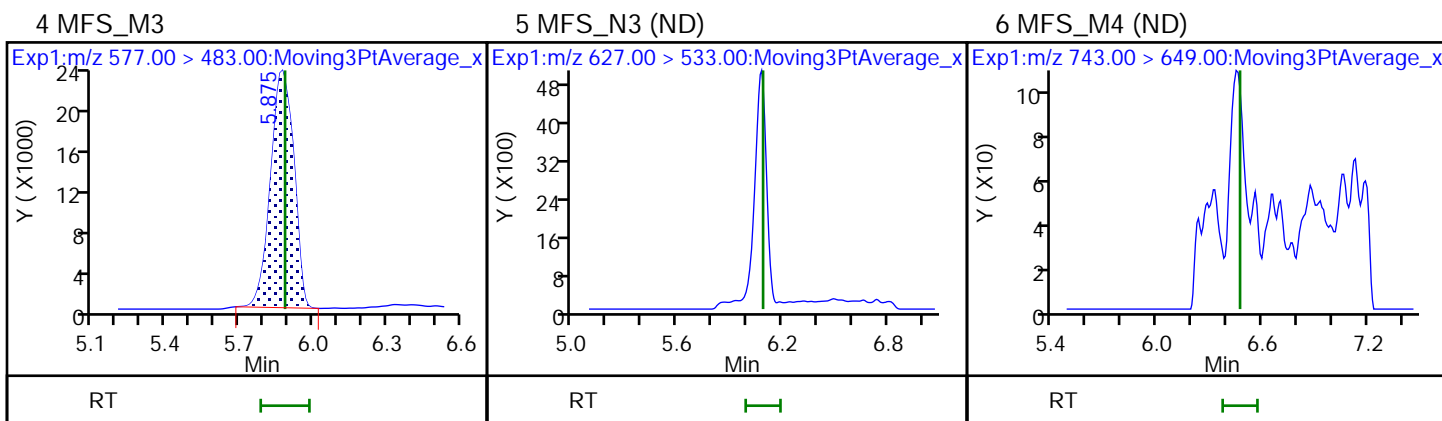
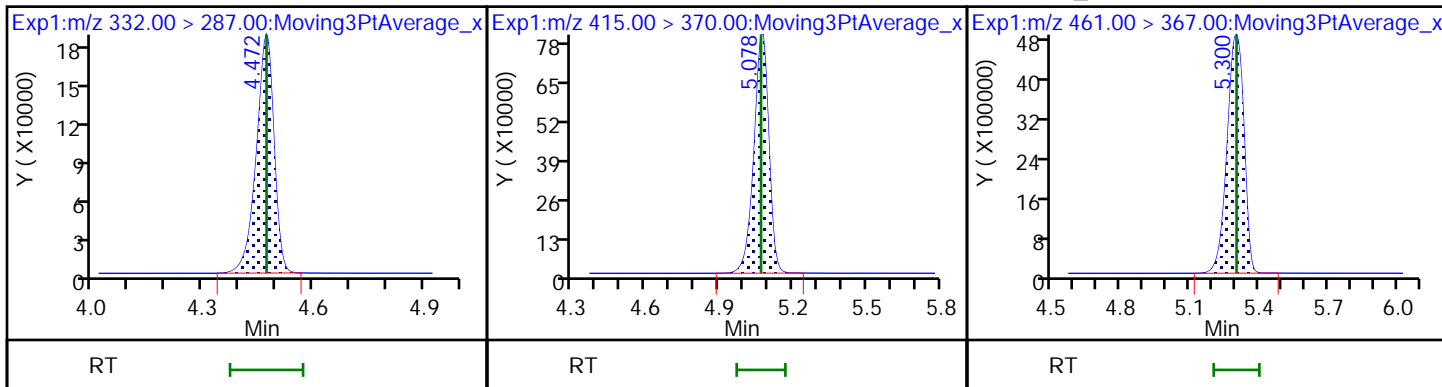
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D DL Lab Sample ID: 410-83867-11 DL

Matrix: Water Lab File ID: 22JUN01MFS-06.d

Analysis Method: MFS Date Collected: 05/12/2022 11:10

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 304(mL) Date Analyzed: 06/01/2022 10:56

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260769 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	240		8.2	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-06.d
 Lims ID: 410-83867-B-11-A
 Client ID: MW-111D
 Sample Type: Client
 Inject. Date: 01-Jun-2022 10:56:41 ALS Bottle#: 31 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 10.0000
 Sample Info: 410-83867-B-11-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0058483-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 13:04:15 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:04:15
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.467	4.472	-0.005	0.881	68069	0.4862	97.2	650	M
* 2 13C2 PFOA									
415.00 > 370.00	5.068	5.075	-0.007		3539158	5.00		2173	
3 MFS_N2									
461.00 > 367.00	5.296	5.308	-0.012	1.186	2626604	7.22		3783	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-06.d

Injection Date: 01-Jun-2022 10:56:41

Instrument ID: 30733

Lims ID: 410-83867-B-11-A

Lab Sample ID: 410-83867-11

Client ID: MW-111D

Operator ID: US19_USR_INS20260

ALS Bottle#: 31

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 10.0000

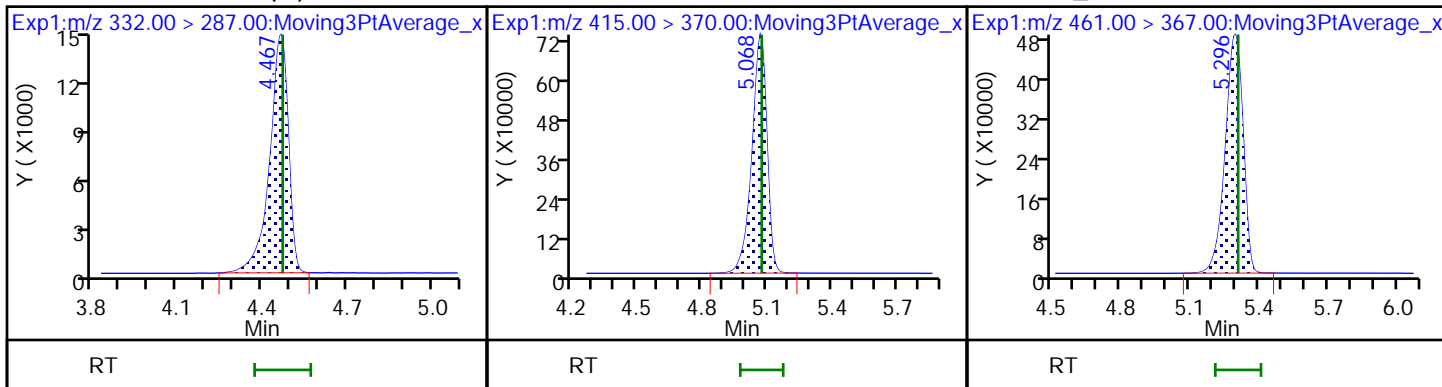
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

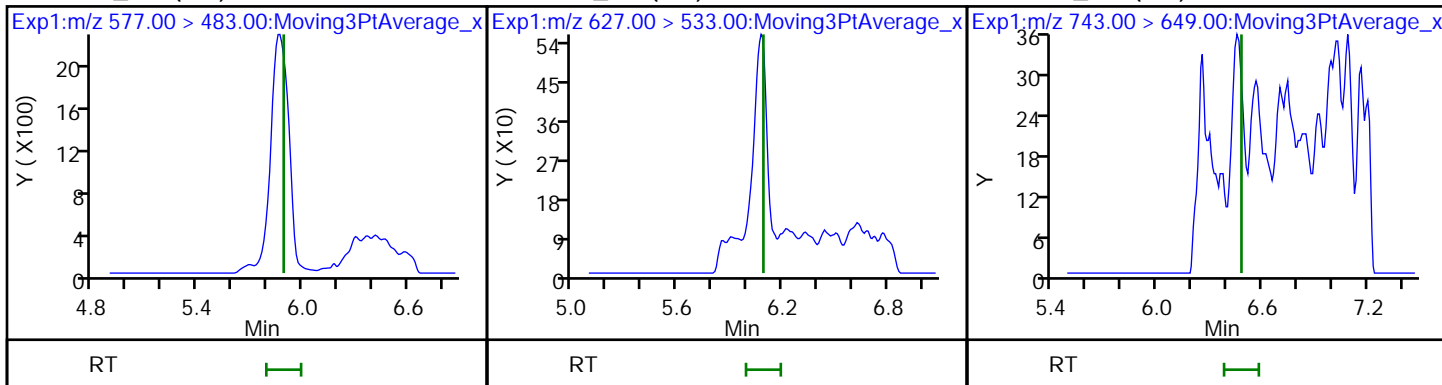
3 MFS_N2



4 MFS_M3 (ND)

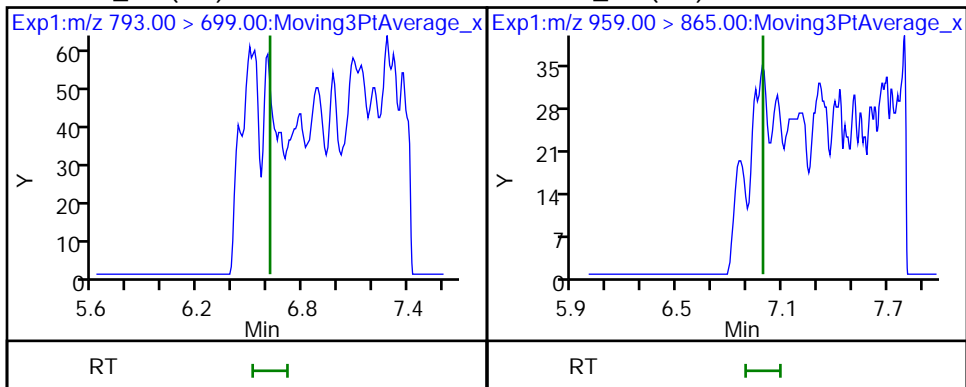
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

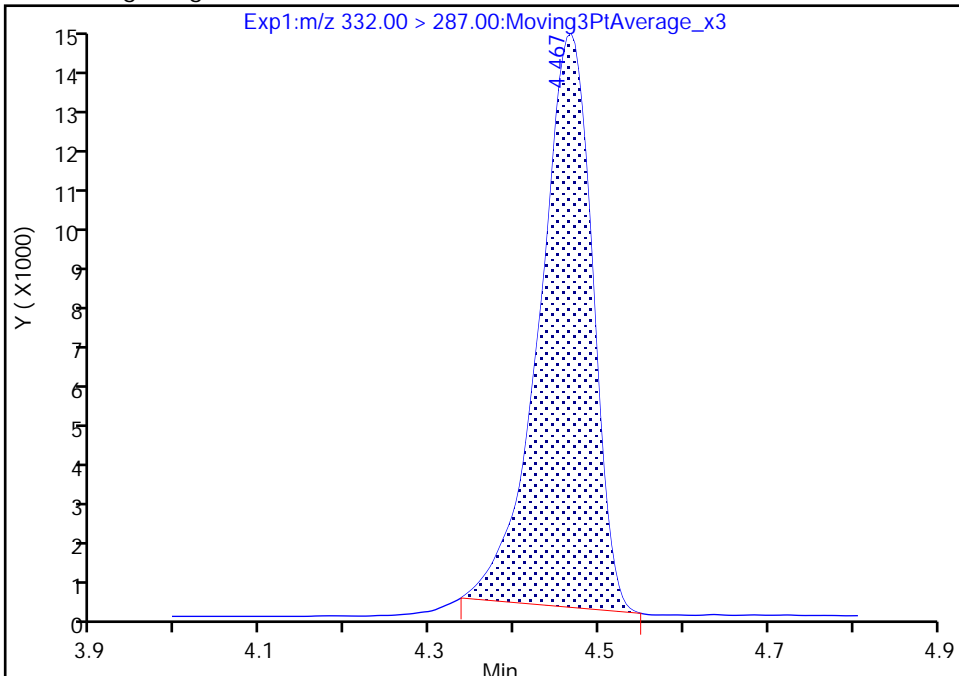
Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-06.d
Injection Date: 01-Jun-2022 10:56:41 Instrument ID: 30733
Lims ID: 410-83867-B-11-A Lab Sample ID: 410-83867-11
Client ID: MW-111D
Operator ID: US19_USR_INS20260 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 15.0 ul Dil. Factor: 10.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

D 1 13C3 HFPO-DA, CAS: STL02255

Signal: 1

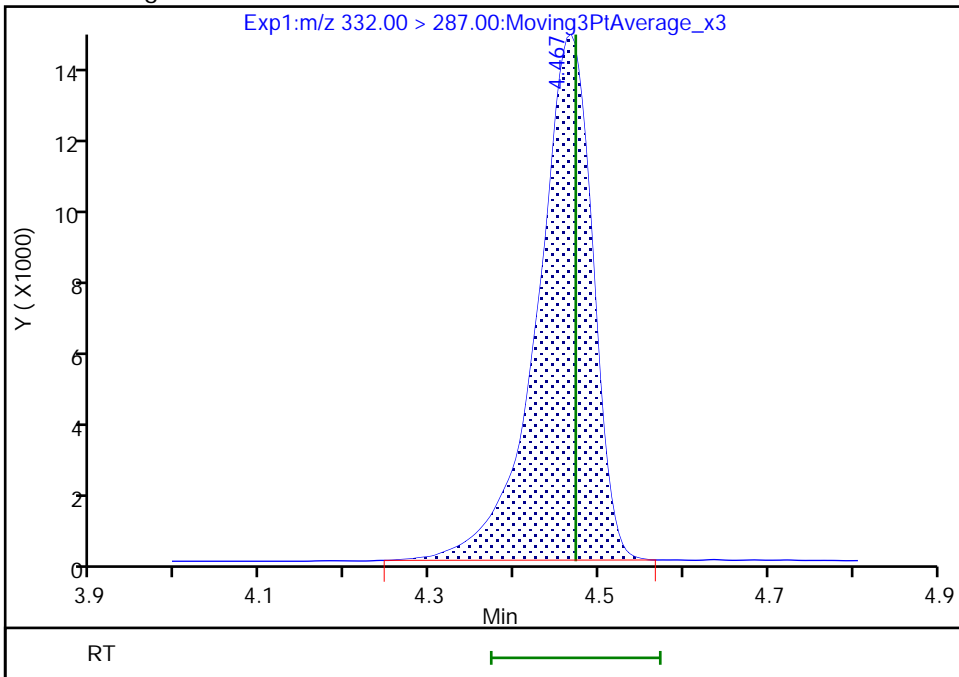
RT: 4.47
Area: 64252
Amount: 0.458947
Amount Units: ng/ml

Processing Integration Results



RT: 4.47
Area: 68069
Amount: 0.486212
Amount Units: ng/ml

Manual Integration Results



Reviewer: kruelleh, 01-Jun-2022 13:04:07
Audit Action: Manually Integrated

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_05122022 Lab Sample ID: 410-83867-12

Matrix: Water Lab File ID: 22MAY31MFS-30.d

Analysis Method: MFS Date Collected: 05/12/2022 09:00

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 265.1(mL) Date Analyzed: 05/31/2022 21:20

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.94	0.19
STL02874	MFS_M3	ND		0.94	0.19
STL02875	MFS_N3	ND		0.94	0.19
STL02876	MFS_M4	ND		0.94	0.47
STL02877	MFS_N4	ND		1.9	0.94
STL02888	MFS_N5	ND		2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	116		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-30.d
 Lims ID: 410-83867-B-12-A
 Client ID: EB_05122022
 Sample Type: Client
 Inject. Date: 31-May-2022 21:20:55 ALS Bottle#: 26 Worklist Smp#: 19
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-12-A
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruehleh Date: 01-Jun-2022 06:44:37
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.473	-0.001	0.881	887991	5.78	116	2827
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.069	0.009		3883405	5.00		3070

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-30.d

Injection Date: 31-May-2022 21:20:55

Instrument ID: 30733

Lims ID: 410-83867-B-12-A

Lab Sample ID: 410-83867-12

Client ID: EB_05122022

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 19

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

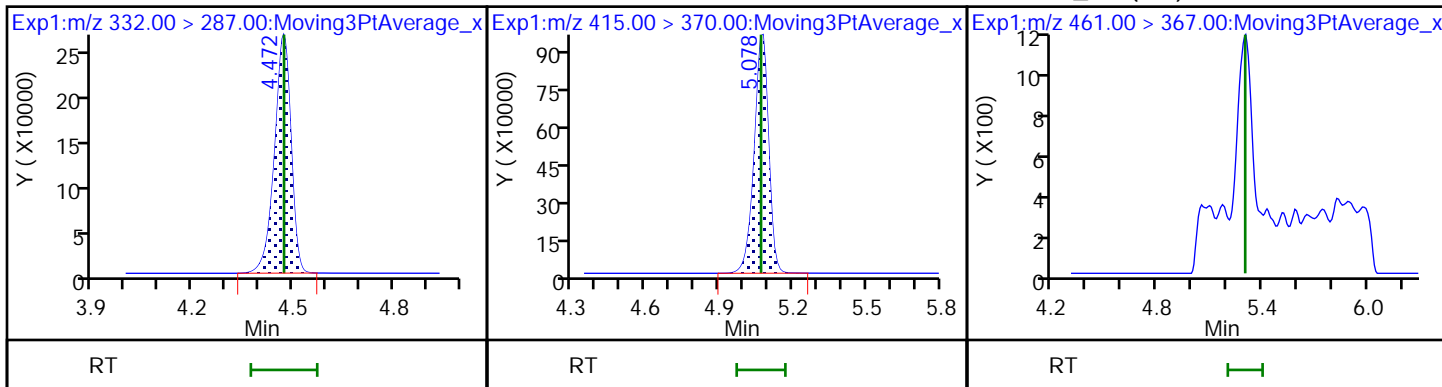
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

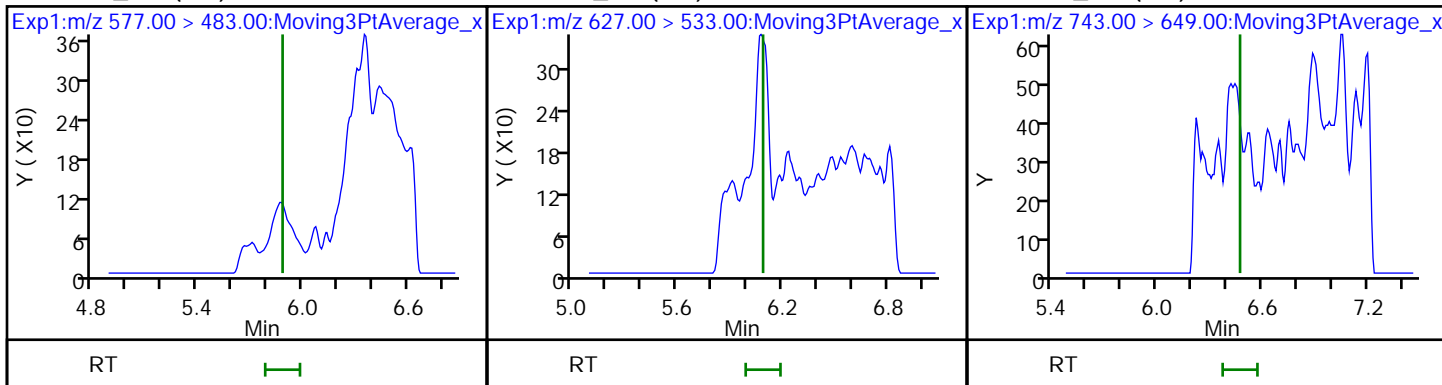
3 MFS_N2 (ND)



4 MFS_M3 (ND)

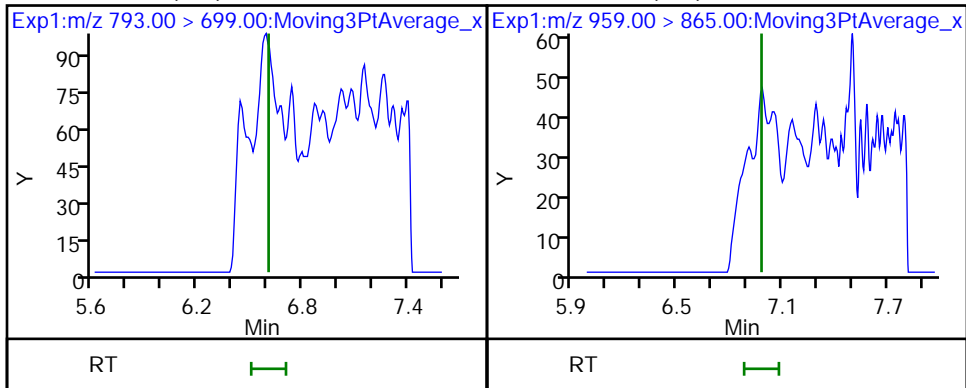
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 258360

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2022 07:24 Calibration End Date: 05/24/2022 08:41 Calibration ID: 38942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-258360/1	22MAY24MFS-01.d
Level 2	IC 410-258360/2	22MAY24MFS-02.d
Level 3	IC 410-258360/3	22MAY24MFS-03.d
Level 4	IC 410-258360/4	22MAY24MFS-04.d
Level 5	ICISAV 410-258360/5	22MAY24MFS-05.d
Level 6	IC 410-258360/6	22MAY24MFS-06.d
Level 7	IC 410-258360/7	22MAY24MFS-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	2.3736 2.3699	2.4105 2.5628	2.5080	2.5097	2.4019	LID1 F	2.487 9							0.9990		0.9900	
MFS_M3	1.6664 1.8769	1.8794 1.9055	1.9039	1.9180	1.7305	LID1 F	1.878 5							0.9990		0.9900	
MFS_N3	1.8901 2.4475	2.4784 2.4231	2.5095	2.3960	2.4788	LID1 F	2.434 2							1.0000		0.9900	
MFS_M4	0.7935 0.9789	0.9350 0.9170	0.9859	0.8977	0.8965	LID1 F	0.931 1							0.9990		0.9900	
MFS_N4	0.8679 0.8865	0.9727 0.8982	1.0708	0.9853	0.8909	LID1 F	0.901 2							0.9990		0.9900	
MFS_N5	0.6683 0.8427	0.7614 0.8383	0.7695	0.8152	0.7325	LID1 F	0.825 1							0.9980		0.9900	
13C3 HFPO-DA	0.2451 0.2199	0.2413 0.2077	0.2119	0.2244	0.2333	Ave	0.226 2				6.3						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 258360

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2022 07:24 Calibration End Date: 05/24/2022 08:41 Calibration ID: 38942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-258360/1	22MAY24MFS-01.d
Level 2	IC 410-258360/2	22MAY24MFS-02.d
Level 3	IC 410-258360/3	22MAY24MFS-03.d
Level 4	IC 410-258360/4	22MAY24MFS-04.d
Level 5	ICISAV 410-258360/5	22MAY24MFS-05.d
Level 6	IC 410-258360/6	22MAY24MFS-06.d
Level 7	IC 410-258360/7	22MAY24MFS-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		LID1	96107	205409	353523	1885610	3726251	0.252	0.505	1.01	5.05	10.1
		F	9714534	19176742				25.2	50.5			
MFS_M3		LID1	67579	160413	268808	1443332	2689035	0.253	0.505	1.01	5.05	10.1
		F	7706034	14280950				25.3	50.5			
MFS_N3		LID1	75950	209592	351052	1786530	3816353	0.250	0.501	1.00	5.01	10.0
		F	9956258	17993887				25.0	50.1			
MFS_M4		LID1	32463	80506	140423	681451	1405313	0.255	0.510	1.02	5.10	10.2
		F	4054344	6933058				25.5	51.0			
MFS_N4		LID1	34975	82499	150226	736792	1375631	0.251	0.502	1.00	5.02	10.0
		F	3616805	6689405				25.1	50.2			
MFS_N5		LID1	26836	64350	107577	607435	1127069	0.250	0.500	1.00	5.00	10.0
		F	3425952	6221677				25.0	50.0			
13C3 HFPO-DA	13PF OA	Ave	802422	844396	698378	744490	768626	5.00	5.00	5.00	5.00	5.00
			812348	741462				5.00	5.00			

Curve Type Legend

Ave = Average ISTD
LID1F = Linear 1/Conc IsoDil FZ

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 258360

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2022 07:24 Calibration End Date: 05/24/2022 08:41 Calibration ID: 38942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-258360/1	22MAY24MFS-01.d
Level 2	IC 410-258360/2	22MAY24MFS-02.d
Level 3	IC 410-258360/3	22MAY24MFS-03.d
Level 4	IC 410-258360/4	22MAY24MFS-04.d
Level 5	ICISAV 410-258360/5	22MAY24MFS-05.d
Level 6	IC 410-258360/6	22MAY24MFS-06.d
Level 7	IC 410-258360/7	22MAY24MFS-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-4.6 3.0	-3.1	0.8	0.9	-3.5	-4.7	50 30	30	30	30	30	30
MFS_M3	-11.3 1.4	0.0	1.4	2.1	-7.9	-0.1	50 30	30	30	30	30	30
MFS_N3	-22.3 -0.5	1.8	3.1	-1.6	1.8	0.5	50 30	30	30	30	30	30
MFS_M4	-14.8 -1.5	0.4	5.9	-3.6	-3.7	5.1	50 30	30	30	30	30	30
MFS_N4	-3.7 -0.3	7.9	18.8	9.3	-1.1	-1.6	50 30	30	30	30	30	30
MFS_N5	-19.0 1.6	-7.7	-6.7	-1.2	-11.2	2.1	50 30	30	30	30	30	30
13C3 HFPO-DA	8.3						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-May-2022 07:24:00 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:49 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:26

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.486	4.475	0.011	0.882	802422	5.42	108	3352
* 2 13C2 PFOA	415.00 > 370.00	5.089	5.078	0.011		3273772	5.00		5227
3 MFS_N2	461.00 > 367.00	5.324	5.311	0.013	1.187	96107	0.2407	95.4	120
4 MFS_M3	577.00 > 483.00	5.900	5.896	0.004	1.315	67579	0.2242	88.7	71.0
5 MFS_N3	627.00 > 533.00	6.101	6.094	0.007	1.360	75950	0.1944	77.7	104
6 MFS_M4	743.00 > 649.00	6.487	6.484	0.003	1.446	32463	0.2173	85.2	342
7 MFS_N4	793.00 > 699.00	6.619	6.615	0.004	1.476	34975	0.2418	96.3	320
8 MFS_N5	959.00 > 865.00	6.994	6.990	0.004	1.559	26836	0.2027	81.0	351

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-01.d

Injection Date: 24-May-2022 07:24:00

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

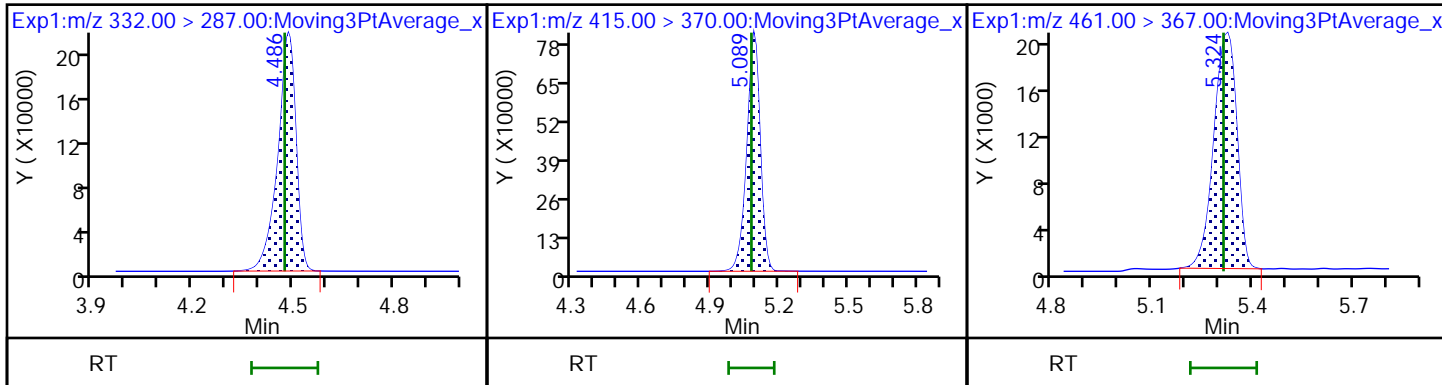
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

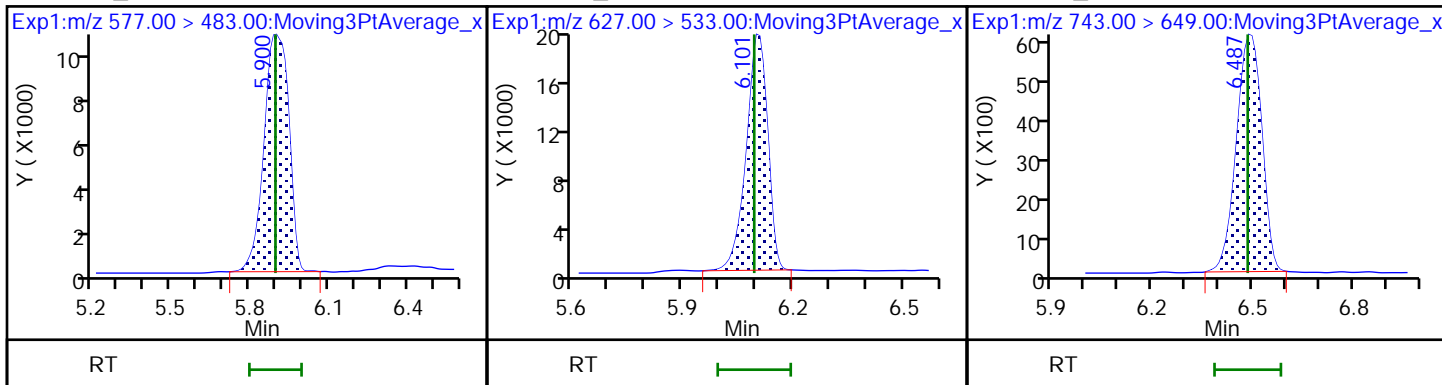
3 MFS_N2



4 MFS_M3

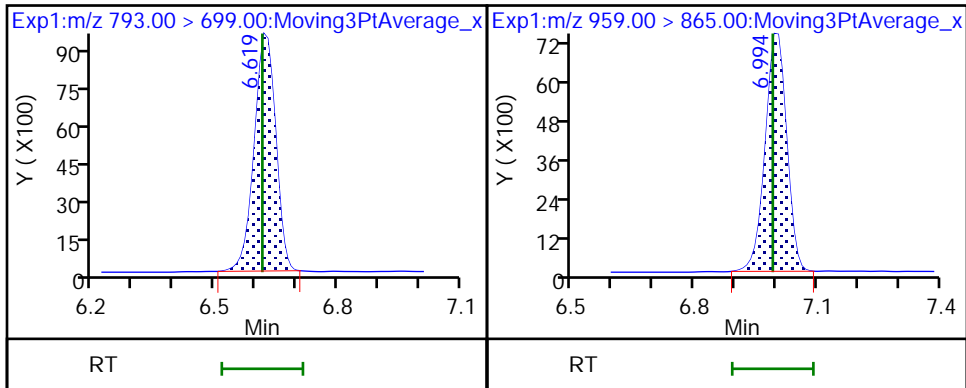
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-May-2022 07:38:02 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:50 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:32

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.475	-0.002	0.881	844396	5.33	107	2845
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.078	0.001		3498867	5.00		4513
3 MFS_N2	461.00 > 367.00	5.310	5.311	-0.001	1.187	205409	0.4889	96.9	220
4 MFS_M3	577.00 > 483.00	5.900	5.896	0.004	1.319	160413	0.5057	100	171
5 MFS_N3	627.00 > 533.00	6.092	6.094	-0.002	1.362	209592	0.5099	102	230
6 MFS_M4	743.00 > 649.00	6.475	6.484	-0.009	1.448	80506	0.5120	100	618
7 MFS_N4	793.00 > 699.00	6.610	6.615	-0.005	1.478	82499	0.5421	108	590
8 MFS_N5	959.00 > 865.00	6.985	6.990	-0.005	1.562	64350	0.4618	92.3	870

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-02.d

Injection Date: 24-May-2022 07:38:02

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

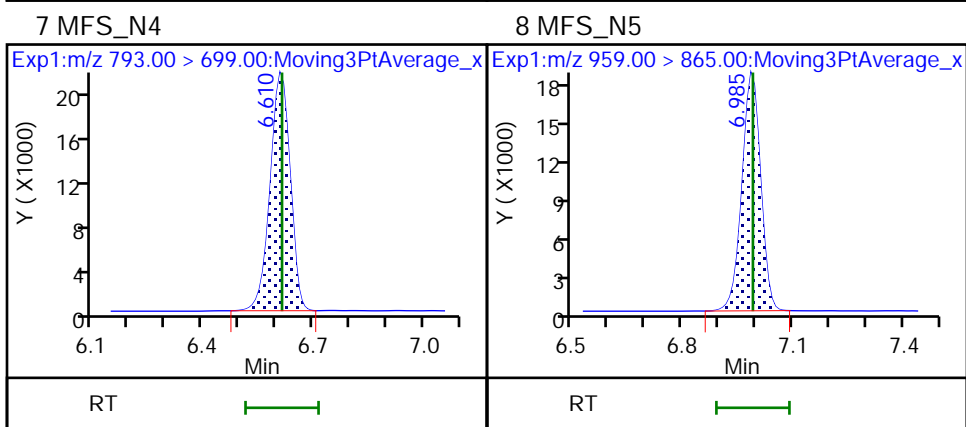
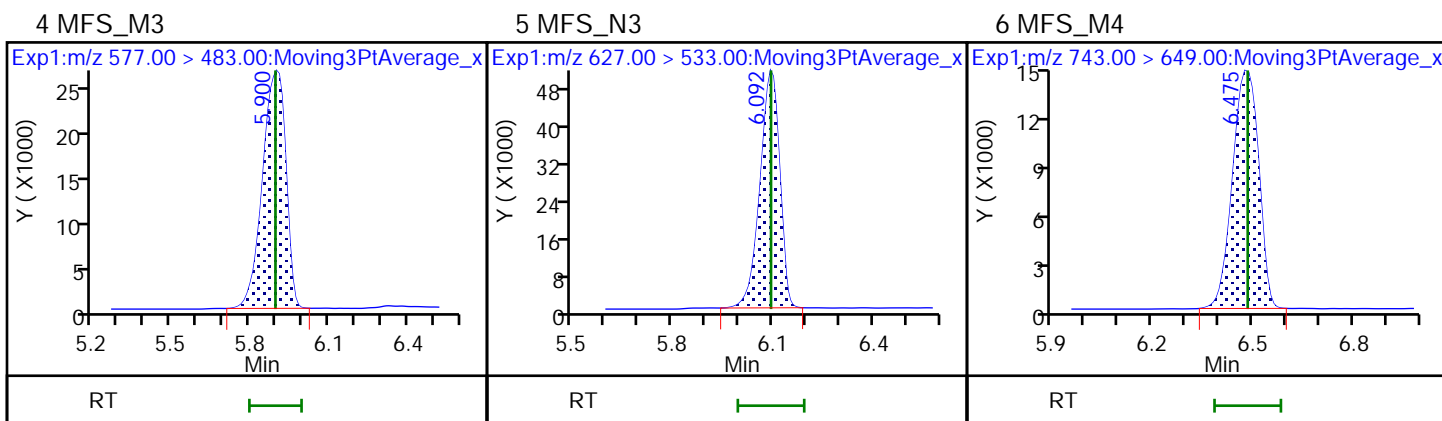
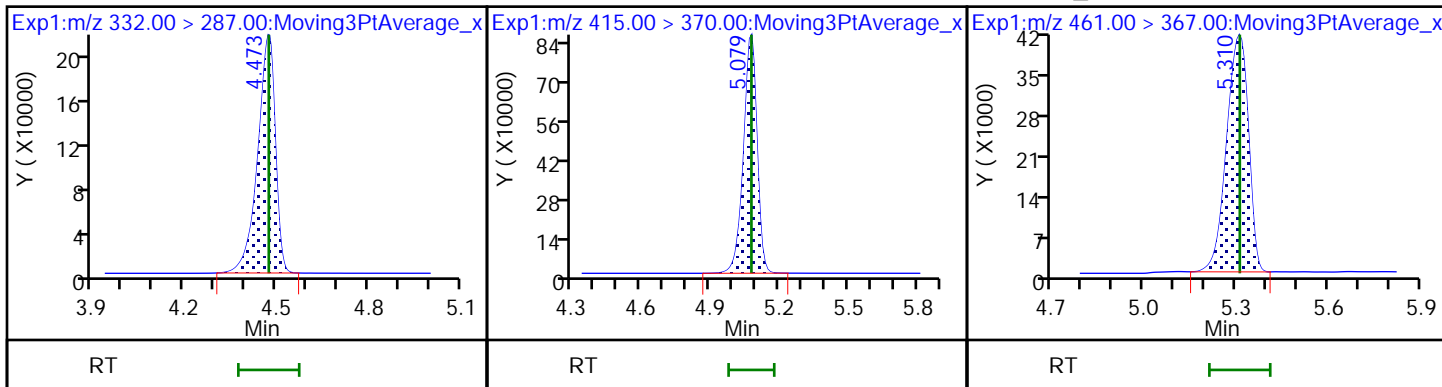
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-May-2022 07:50:39 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:50 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:52

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.470	4.475	-0.005	0.881	698378	4.68	93.7	2375
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.078	-0.002		3295778	5.00		4791
3 MFS_N2	461.00 > 367.00	5.303	5.311	-0.008	1.186	353523	1.02	101	338
4 MFS_M3	577.00 > 483.00	5.890	5.896	-0.006	1.318	268808	1.02	101	252
5 MFS_N3	627.00 > 533.00	6.093	6.094	-0.001	1.363	351052	1.03	103	358
6 MFS_M4	743.00 > 649.00	6.487	6.484	0.003	1.451	140423	1.08	106	919
7 MFS_N4	793.00 > 699.00	6.610	6.615	-0.005	1.479	150226	1.19	119	946
8 MFS_N5	959.00 > 865.00	6.985	6.990	-0.005	1.563	107577	0.9335	93.3	1406

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-03.d

Injection Date: 24-May-2022 07:50:39

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

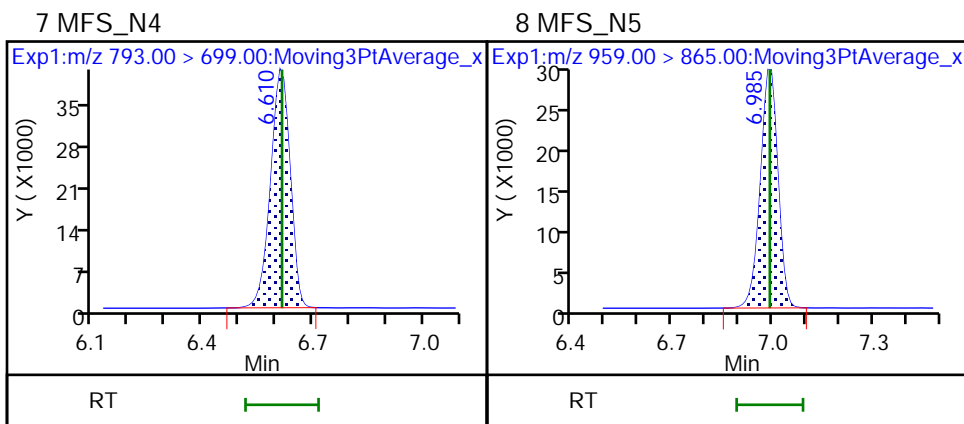
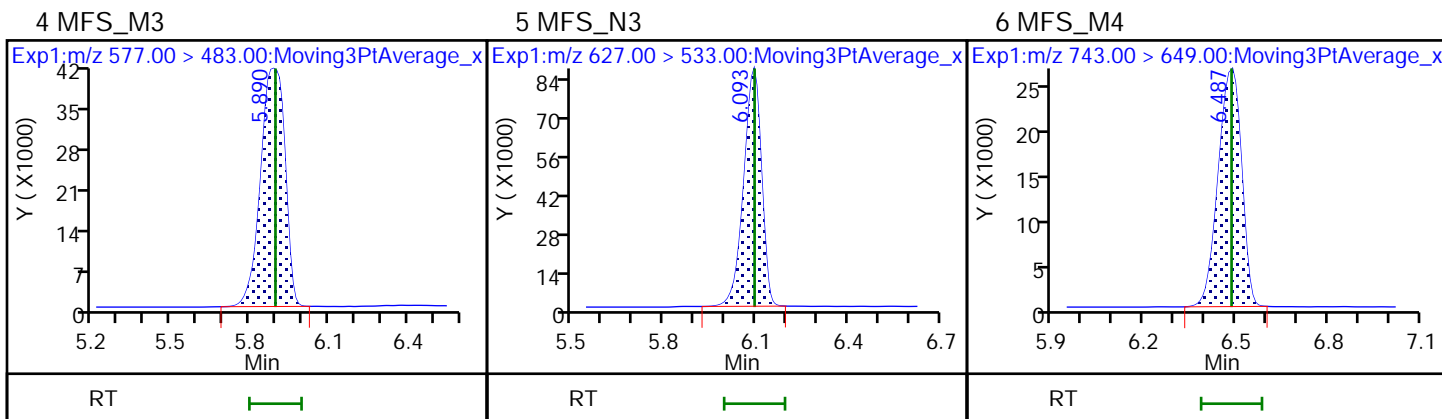
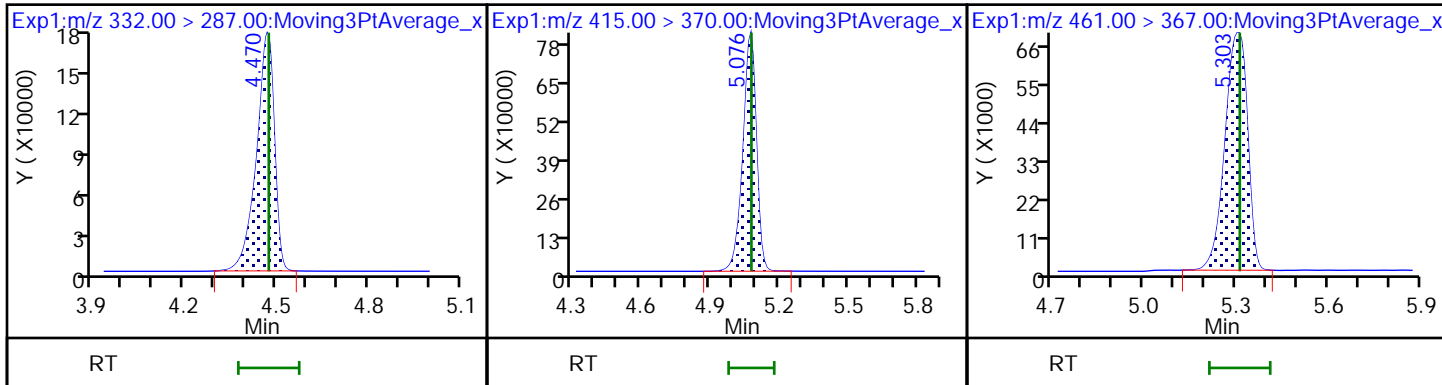
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 24-May-2022 08:03:16 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:51 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:35:57

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.476	4.475	0.001	0.882	744490	4.96	99.2	2445
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.078	0.0		3317384	5.00		4681
3 MFS_N2	461.00 > 367.00	5.314	5.311	0.003	1.187	1885610	5.09	101	1636
4 MFS_M3	577.00 > 483.00	5.896	5.896	0.0	1.317	1443332	5.16	102	936
5 MFS_N3	627.00 > 533.00	6.097	6.094	0.003	1.362	1786530	4.93	98.4	1145
6 MFS_M4	743.00 > 649.00	6.482	6.484	-0.002	1.448	681451	4.92	96.4	2214
7 MFS_N4	793.00 > 699.00	6.615	6.615	0.0	1.478	736792	5.49	109	2334
8 MFS_N5	959.00 > 865.00	6.990	6.990	0.0	1.562	607435	4.94	98.8	3568

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-04.d

Injection Date: 24-May-2022 08:03:16

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

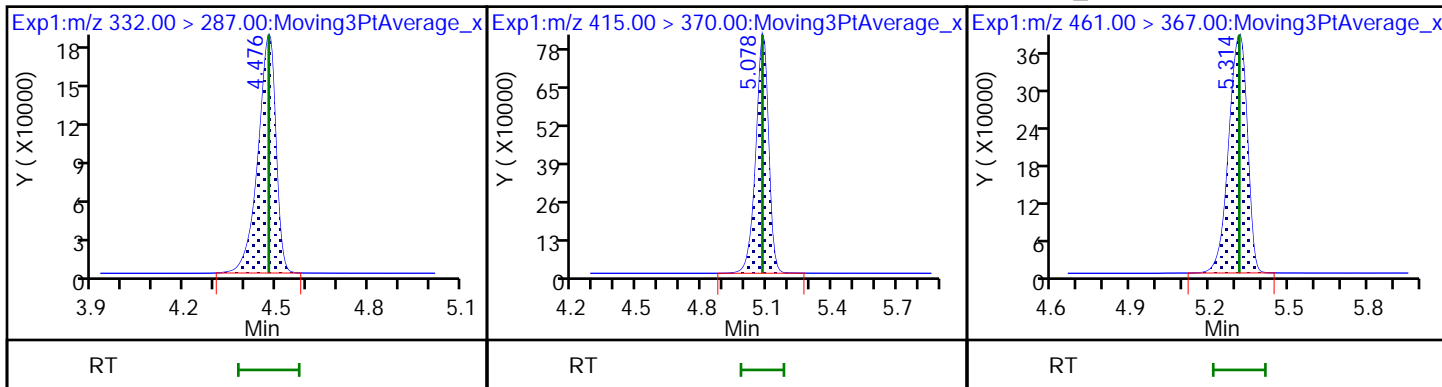
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

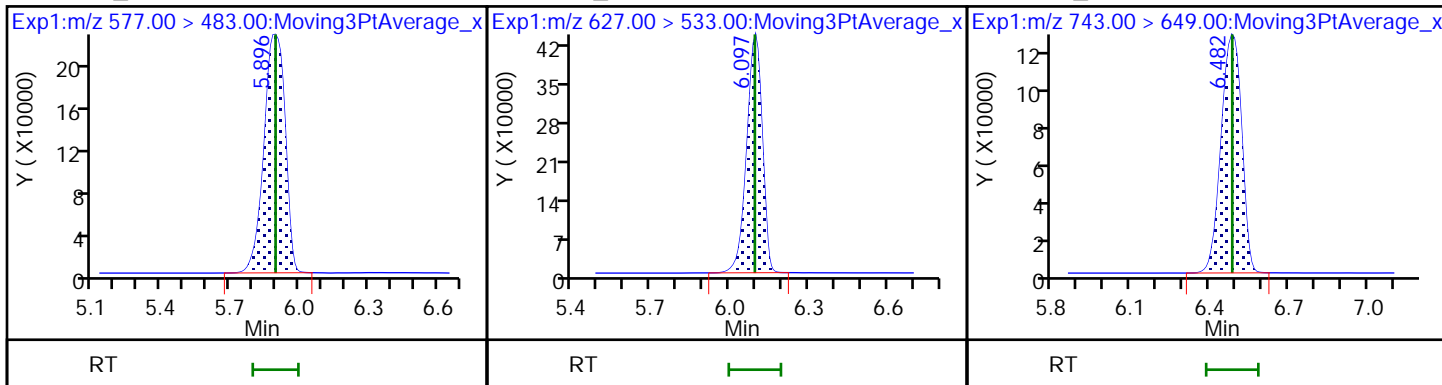
3 MFS_N2



4 MFS_M3

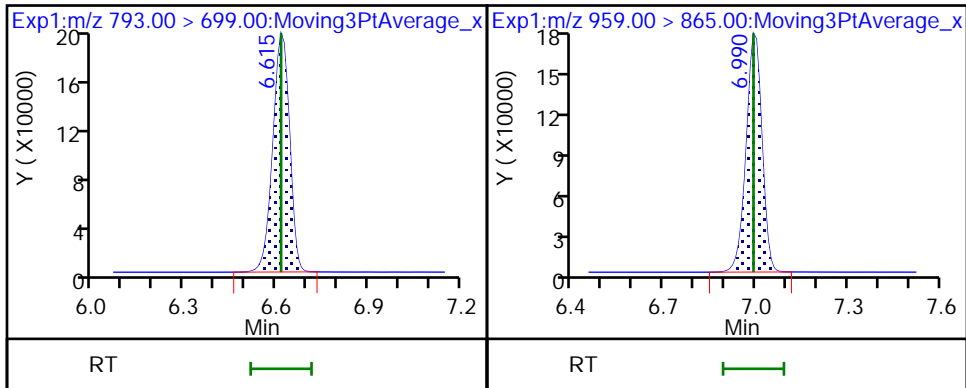
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 24-May-2022 08:15:56 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:52 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 14:01:04

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.477	4.475	0.002	0.881	768626	5.16	103	2562
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.078	0.001		3293936	5.00		4320
3 MFS_N2	461.00 > 367.00	5.316	5.311	0.005	1.187	3726251	9.74	96.5	2938
4 MFS_M3	577.00 > 483.00	5.889	5.896	-0.007	1.315	2689035	9.31	92.1	1177
5 MFS_N3	627.00 > 533.00	6.092	6.094	-0.002	1.361	3816353	10.2	102	1990
6 MFS_M4	743.00 > 649.00	6.486	6.484	0.002	1.449	1405313	9.82	96.3	2459
7 MFS_N4	793.00 > 699.00	6.619	6.615	0.004	1.478	1375631	9.93	98.9	2684
8 MFS_N5	959.00 > 865.00	6.994	6.990	0.004	1.562	1127069	8.89	88.8	3772

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-05.d

Injection Date: 24-May-2022 08:15:56

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

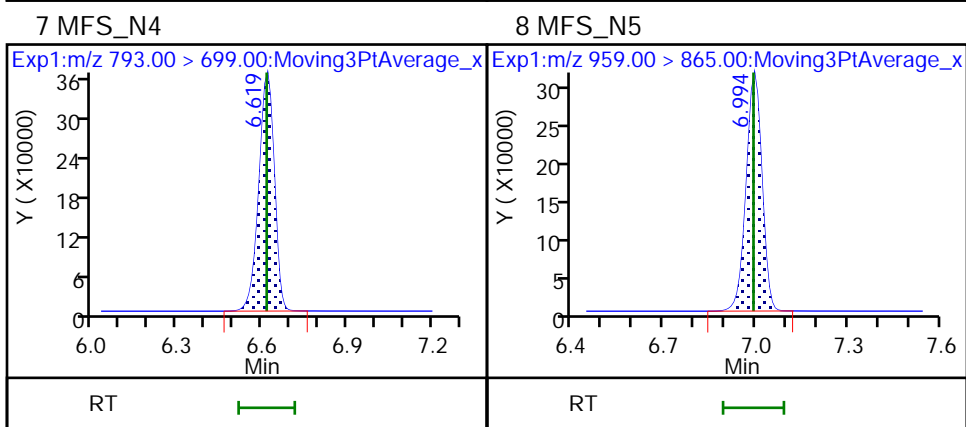
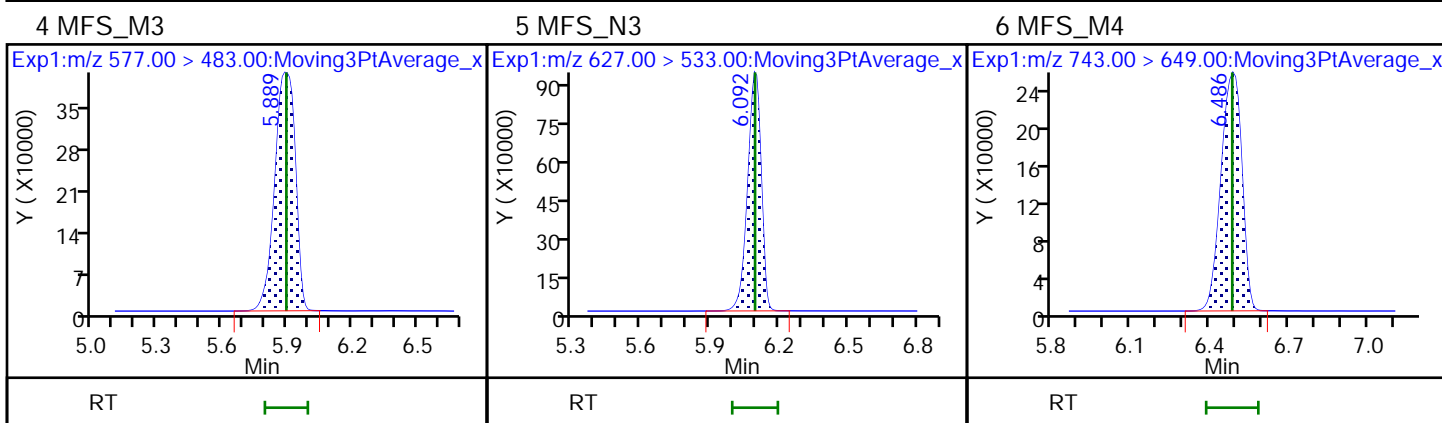
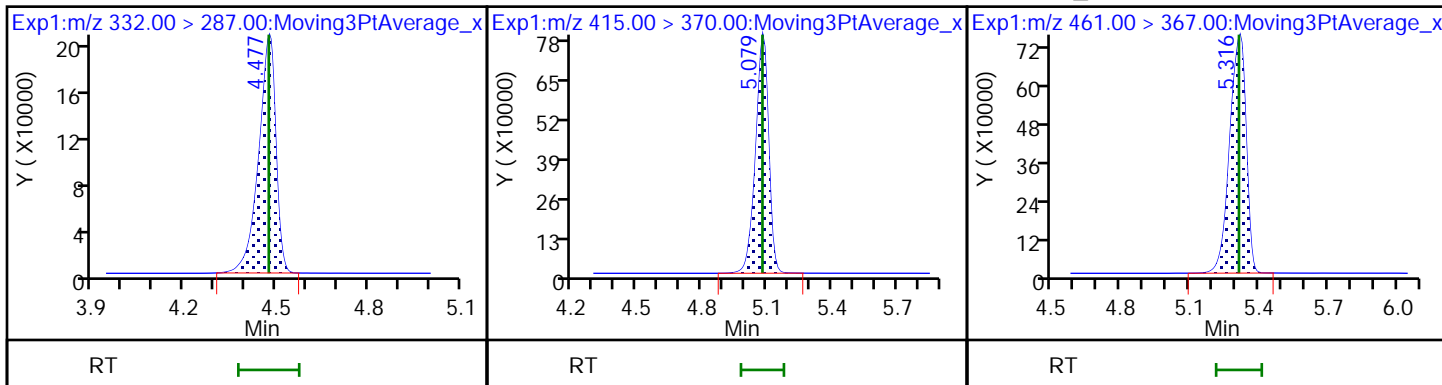
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 24-May-2022 08:28:34 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:52 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:04

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.475	4.475	0.0	0.881	812348	4.86	97.2	2484
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.078	-0.002		3694878	5.00		4004
3 MFS_N2	461.00 > 367.00	5.310	5.311	-0.001	1.187	9714534	24.0	95.3	6553
4 MFS_M3	577.00 > 483.00	5.911	5.896	0.015	1.321	7706034	25.2	99.9	2370
5 MFS_N3	627.00 > 533.00	6.093	6.094	-0.001	1.362	9956258	25.2	101	3437
6 MFS_M4	743.00 > 649.00	6.487	6.484	0.003	1.450	4054344	26.8	105	4586
7 MFS_N4	793.00 > 699.00	6.619	6.615	0.004	1.479	3616805	24.7	98.4	3805
8 MFS_N5	959.00 > 865.00	6.994	6.990	0.004	1.563	3425952	25.6	102	5481

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-06.d

Injection Date: 24-May-2022 08:28:34

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

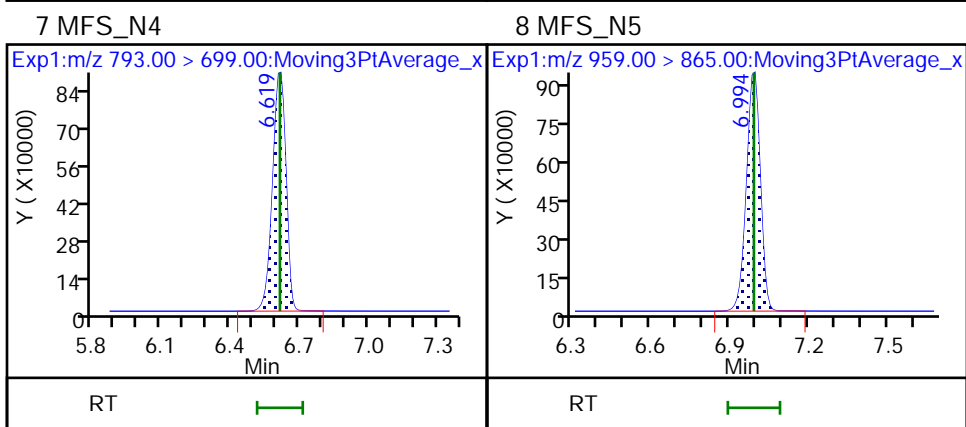
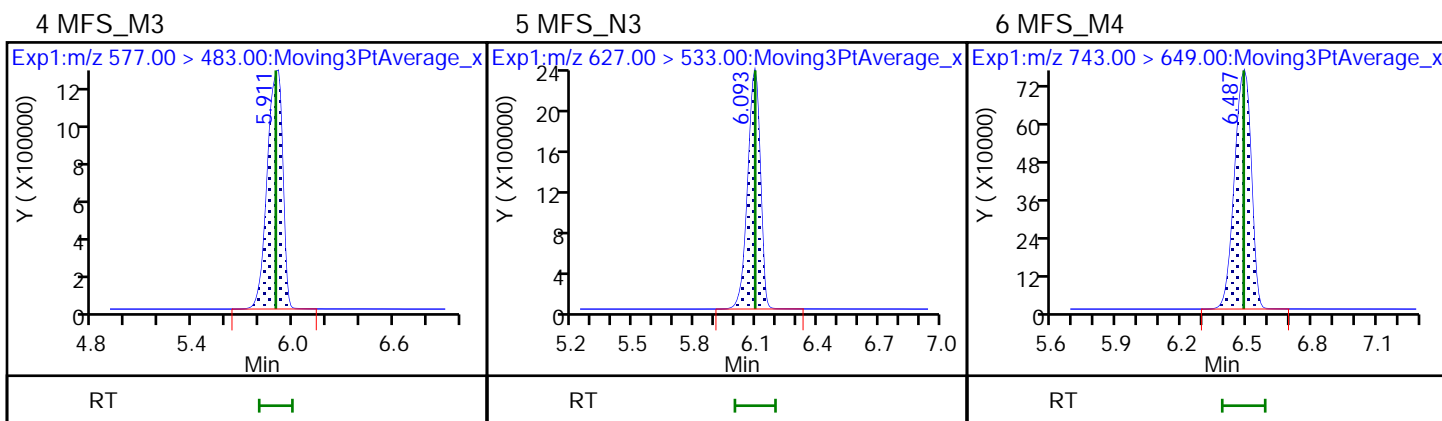
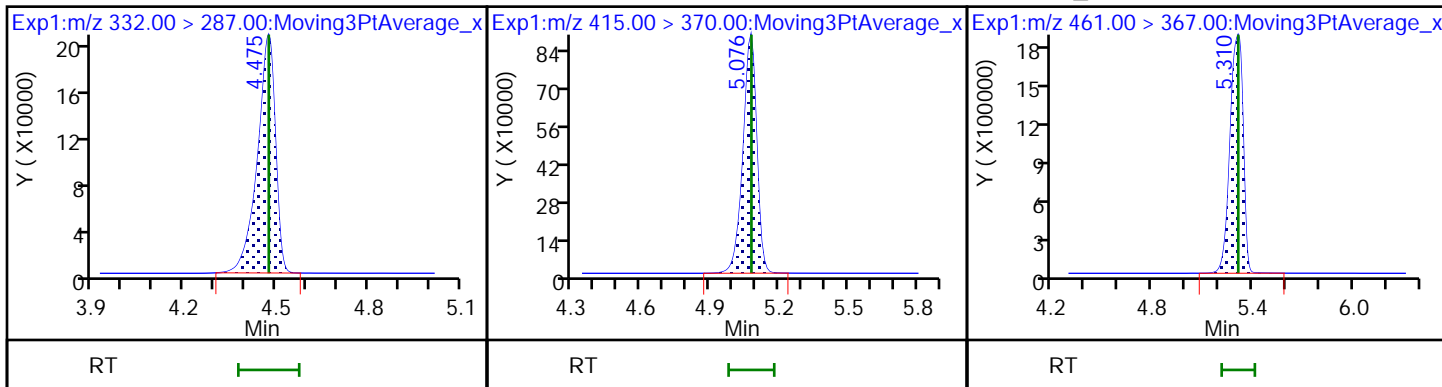
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 24-May-2022 08:41:11 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:53 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:11

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.468	4.475	-0.007	0.881	741462	4.59	91.8	2415
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.078	-0.009		3569221	5.00		4081
3 MFS_N2	461.00 > 367.00	5.301	5.311	-0.010	1.187	19176742	52.0	103	12844
4 MFS_M3	577.00 > 483.00	5.888	5.896	-0.008	1.318	14280950	51.3	101	2780
5 MFS_N3	627.00 > 533.00	6.091	6.094	-0.003	1.363	17993887	49.8	99.5	4672
6 MFS_M4	743.00 > 649.00	6.483	6.484	-0.001	1.451	6933058	50.2	98.5	4010
7 MFS_N4	793.00 > 699.00	6.616	6.615	0.001	1.481	6689405	50.1	99.7	5182
8 MFS_N5	959.00 > 865.00	6.990	6.990	0.0	1.565	6221677	50.8	102	5823

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Injection Date: 24-May-2022 08:41:11

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

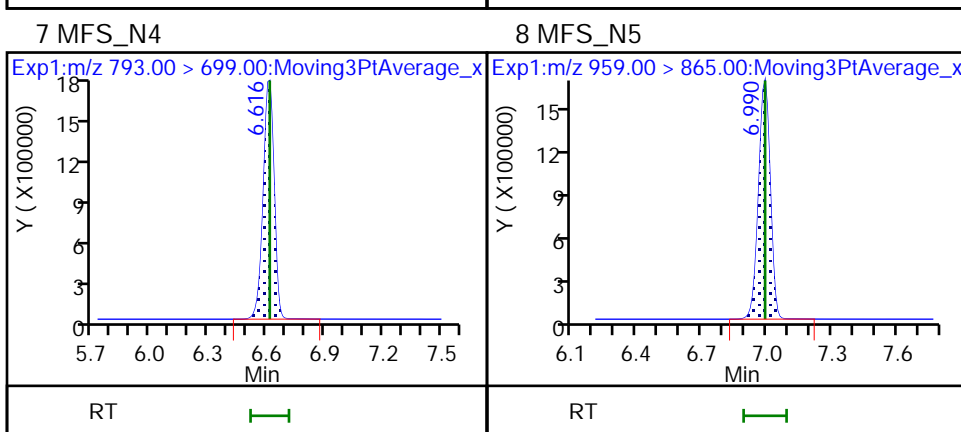
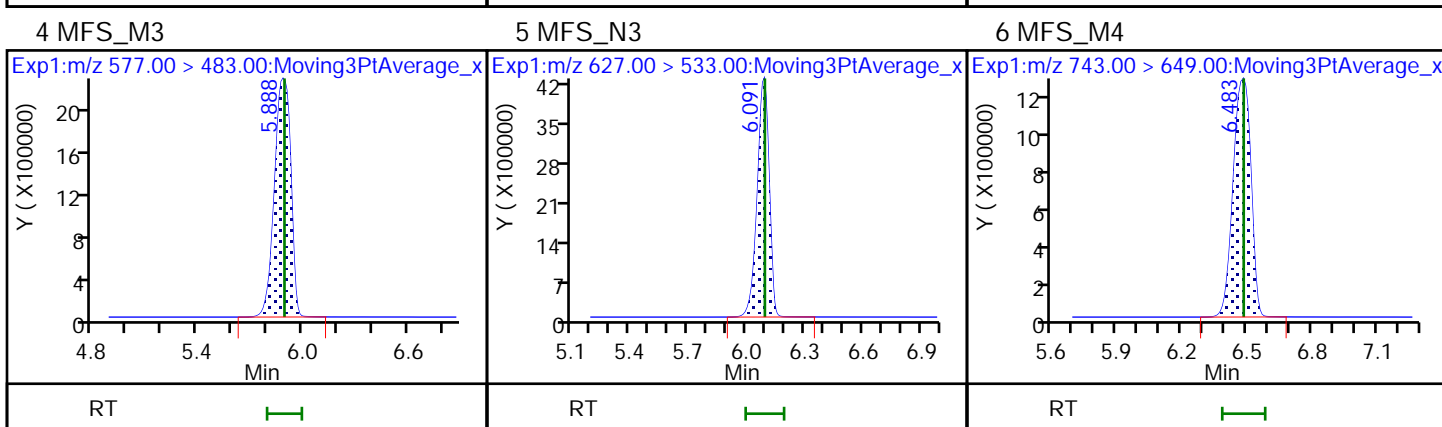
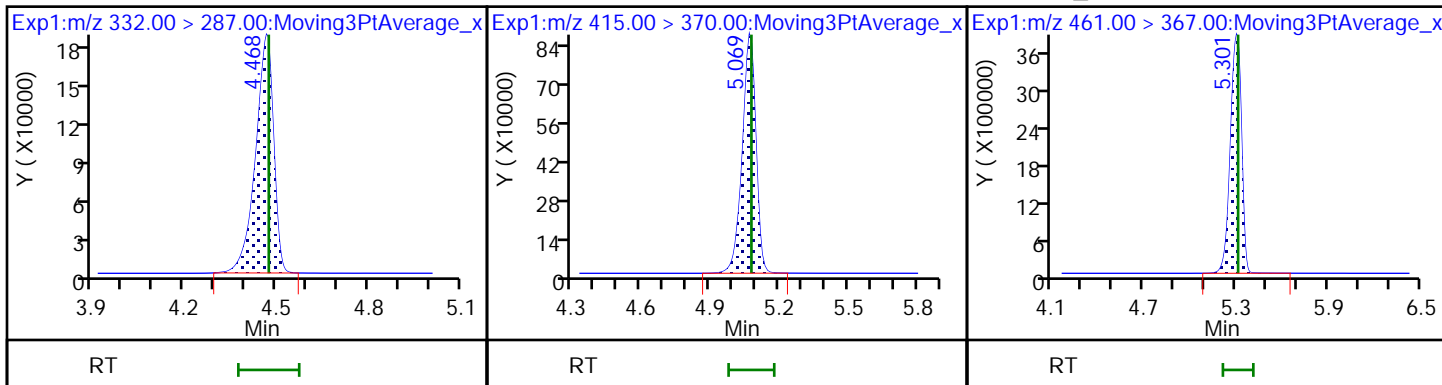
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Calibration

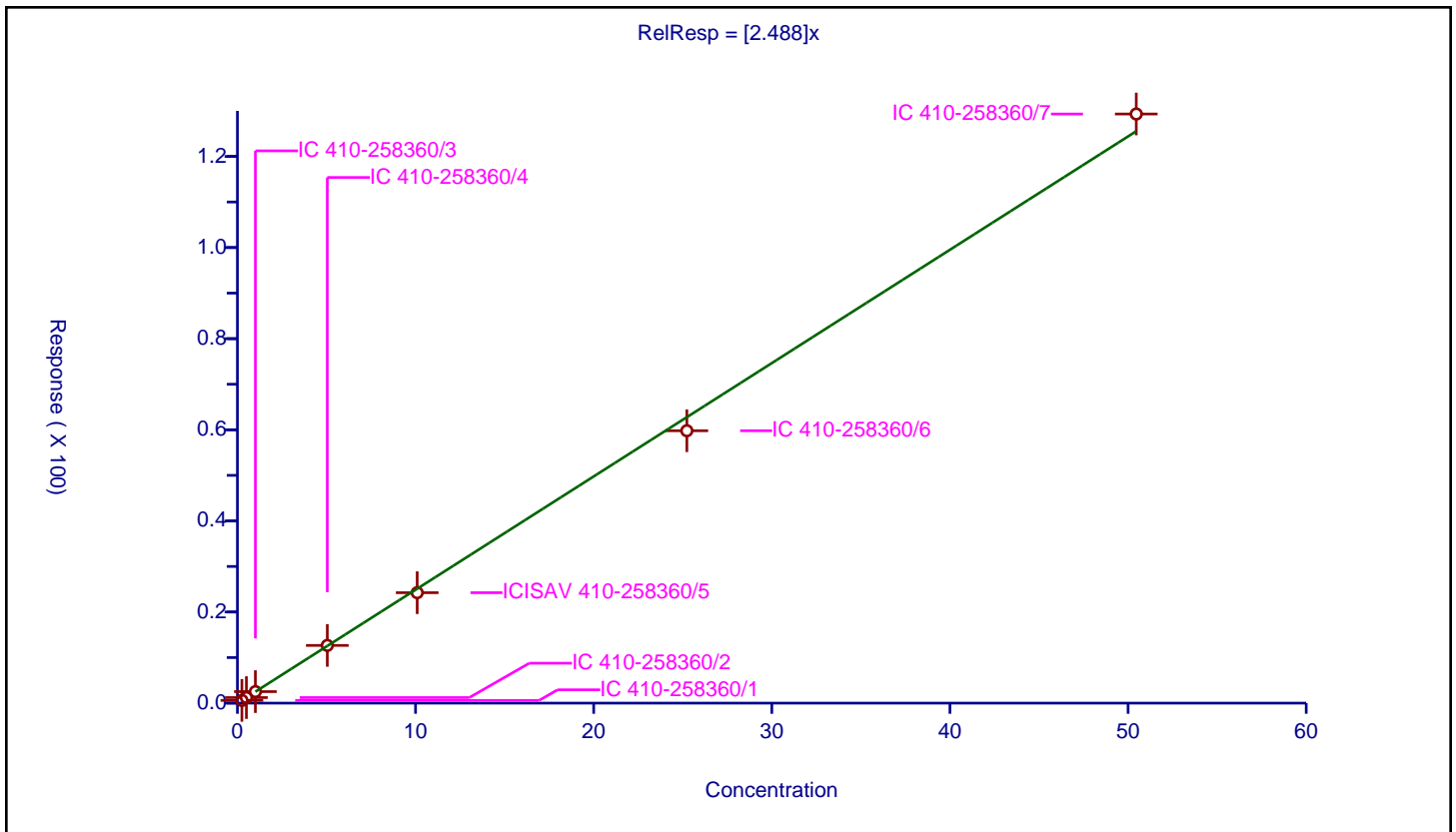
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.488

Error Coefficients	
Standard Error:	8940000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.252299	0.598856	5.0	802422.0	2.373599	Y
2	IC 410-258360/2	0.504597	1.216307	5.0	844396.0	2.410452	Y
3	IC 410-258360/3	1.009195	2.531029	5.0	698378.0	2.507969	Y
4	IC 410-258360/4	5.045973	12.66377	5.0	744490.0	2.509679	Y
5	ICISAV 410-258360/5	10.091946	24.239689	5.0	768626.0	2.401885	Y
6	IC 410-258360/6	25.229864	59.792934	5.0	812348.0	2.369927	Y
7	IC 410-258360/7	50.459728	129.317092	5.0	741462.0	2.562778	Y



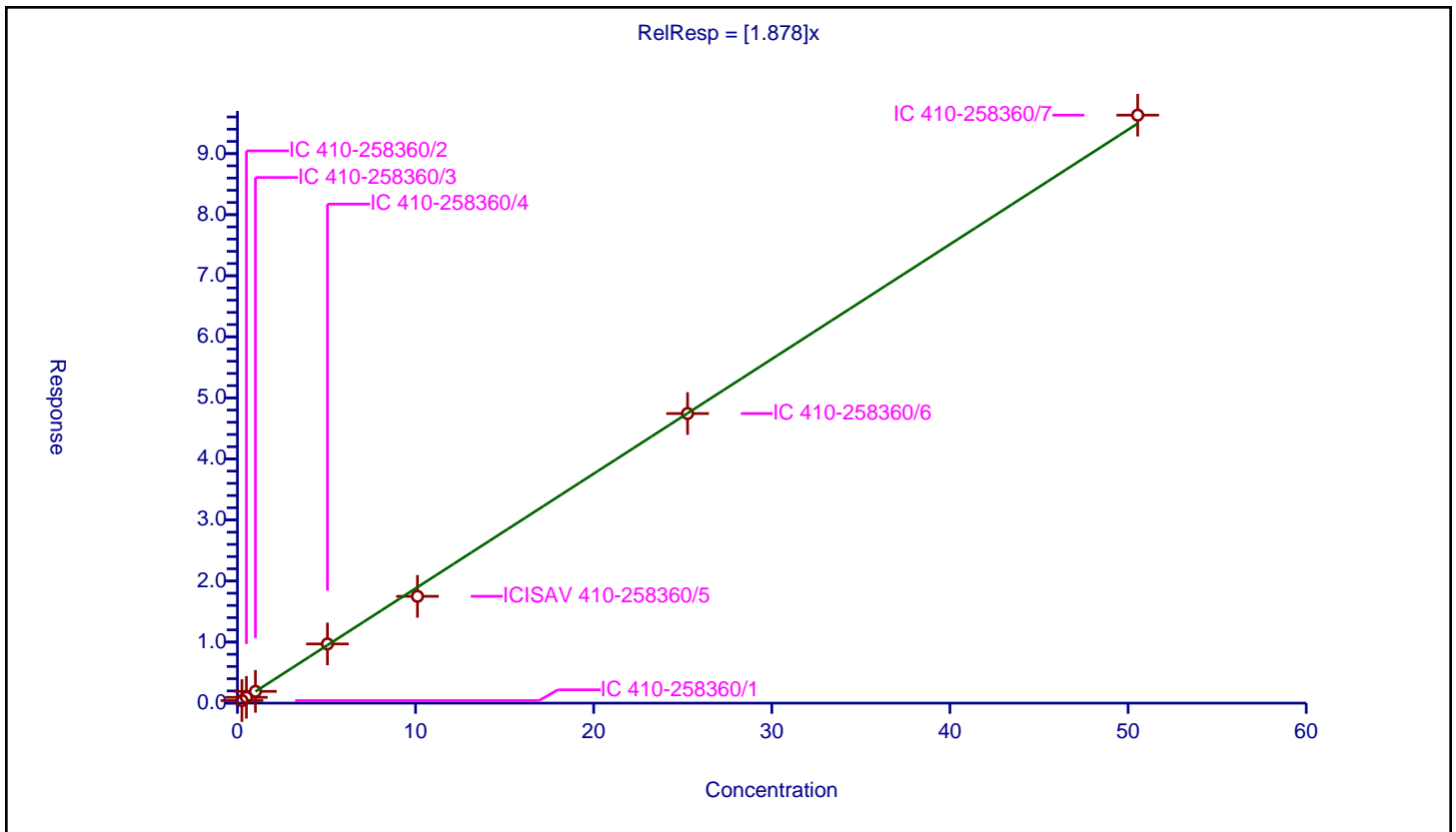
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.878

Error Coefficients	
Standard Error:	6740000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.252702	0.421094	5.0	802422.0	1.666365	Y
2	IC 410-258360/2	0.505404	0.949868	5.0	844396.0	1.879423	Y
3	IC 410-258360/3	1.010808	1.924517	5.0	698378.0	1.903938	Y
4	IC 410-258360/4	5.054042	9.693428	5.0	744490.0	1.917956	Y
5	ICISAV 410-258360/5	10.108084	17.49248	5.0	768626.0	1.730544	Y
6	IC 410-258360/6	25.270209	47.430621	5.0	812348.0	1.876938	Y
7	IC 410-258360/7	50.540418	96.302643	5.0	741462.0	1.905458	Y



Calibration

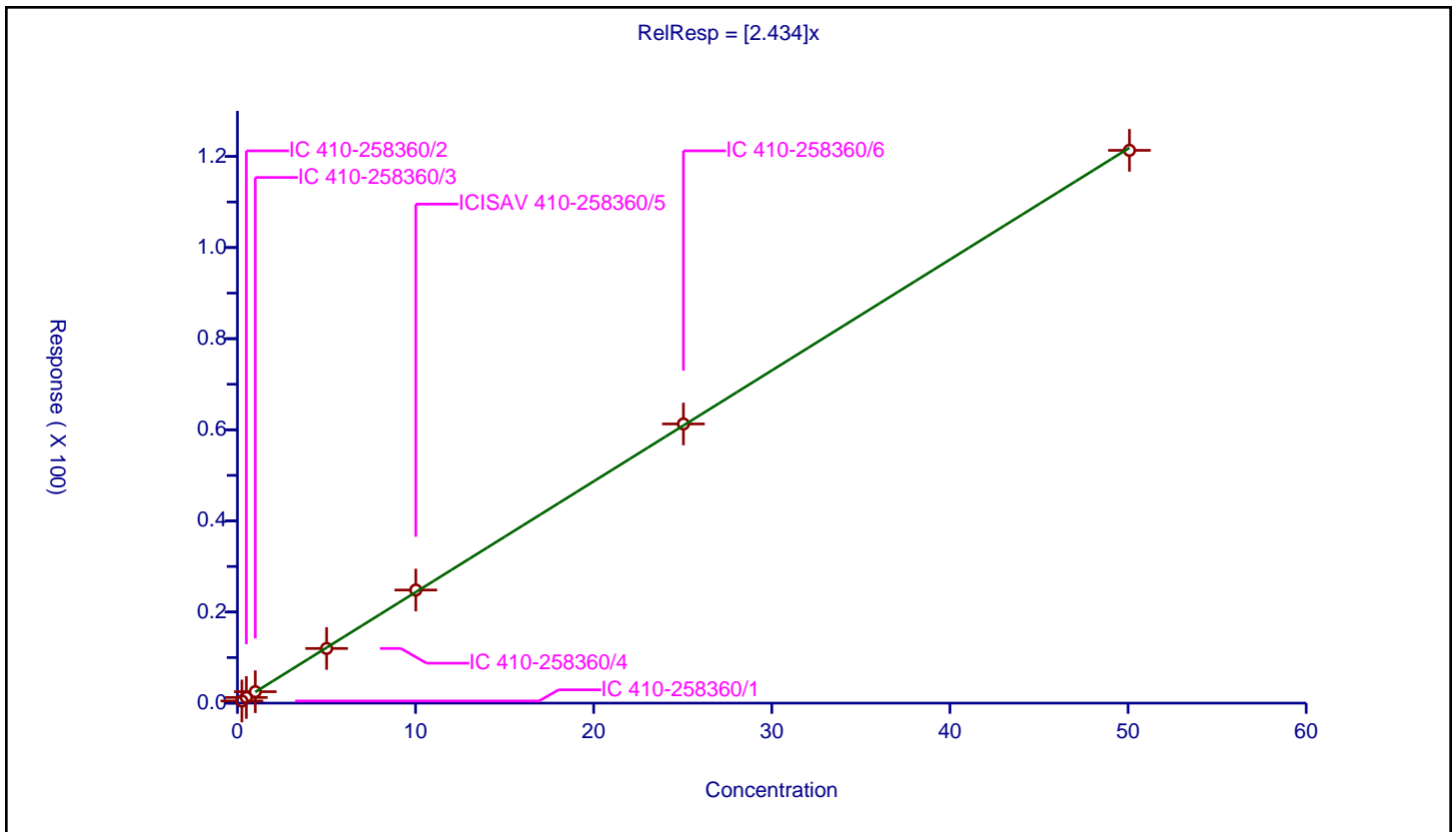
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.434

Error Coefficients	
Standard Error:	8570000
Relative Standard Error:	9.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.25038	0.473255	5.0	802422.0	1.890145	Y
2	IC 410-258360/2	0.50076	1.241076	5.0	844396.0	2.478385	Y
3	IC 410-258360/3	1.00152	2.513338	5.0	698378.0	2.509523	Y
4	IC 410-258360/4	5.007601	11.998348	5.0	744490.0	2.396027	Y
5	ICISAV 410-258360/5	10.015202	24.825813	5.0	768626.0	2.478813	Y
6	IC 410-258360/6	25.038006	61.280744	5.0	812348.0	2.447509	Y
7	IC 410-258360/7	50.076012	121.340588	5.0	741462.0	2.423128	Y



Calibration

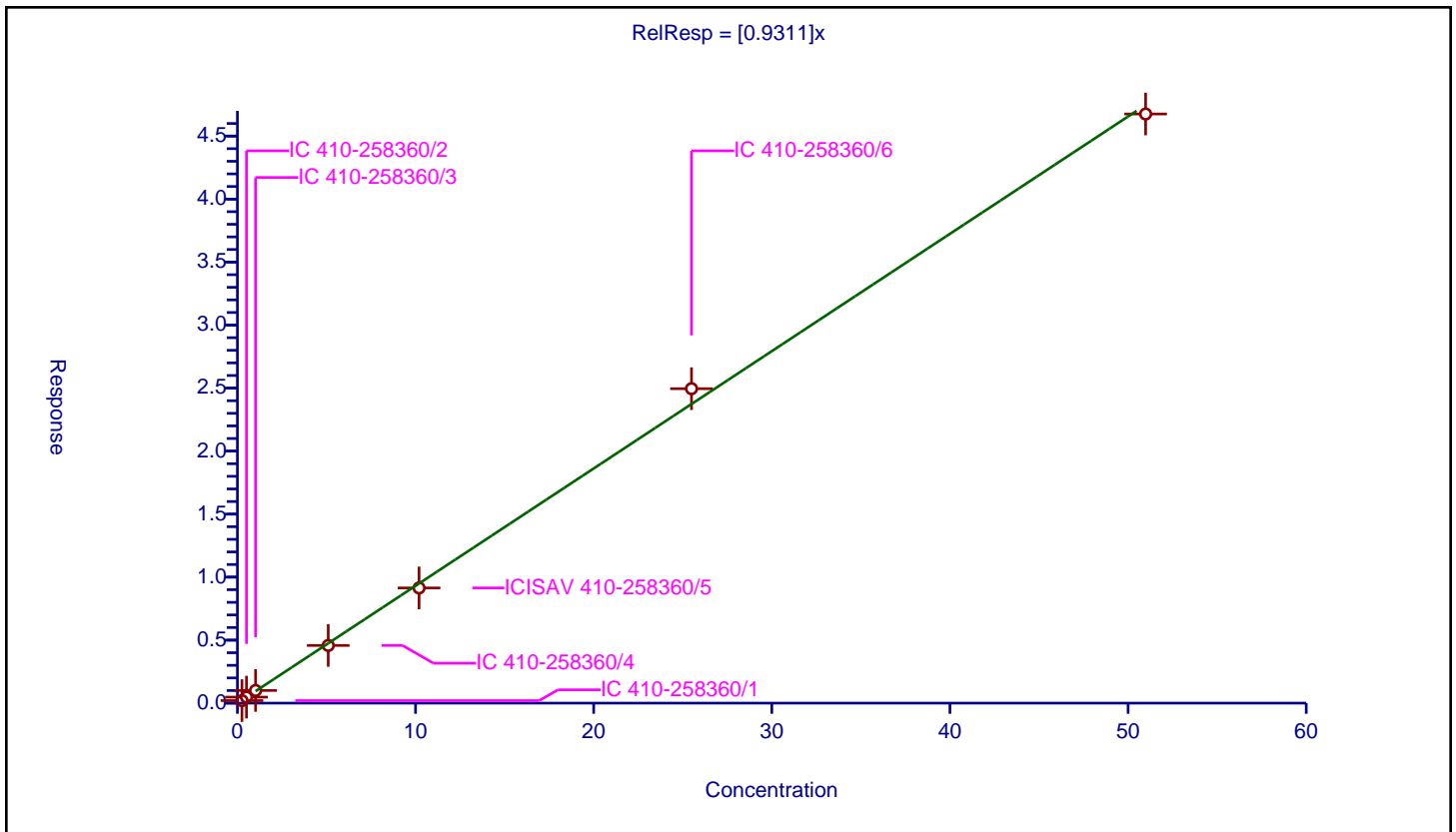
/ MFS_M4

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9311

Error Coefficients	
Standard Error:	3340000
Relative Standard Error:	7.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.254923	0.202281	5.0	802422.0	0.7935	Y
2	IC 410-258360/2	0.509846	0.476708	5.0	844396.0	0.935004	Y
3	IC 410-258360/3	1.019691	1.005351	5.0	698378.0	0.985937	Y
4	IC 410-258360/4	5.098457	4.57663	5.0	744490.0	0.89765	Y
5	ICISAV 410-258360/5	10.196913	9.141722	5.0	768626.0	0.896519	Y
6	IC 410-258360/6	25.492283	24.954478	5.0	812348.0	0.978903	Y
7	IC 410-258360/7	50.984566	46.752618	5.0	741462.0	0.916996	Y



Calibration

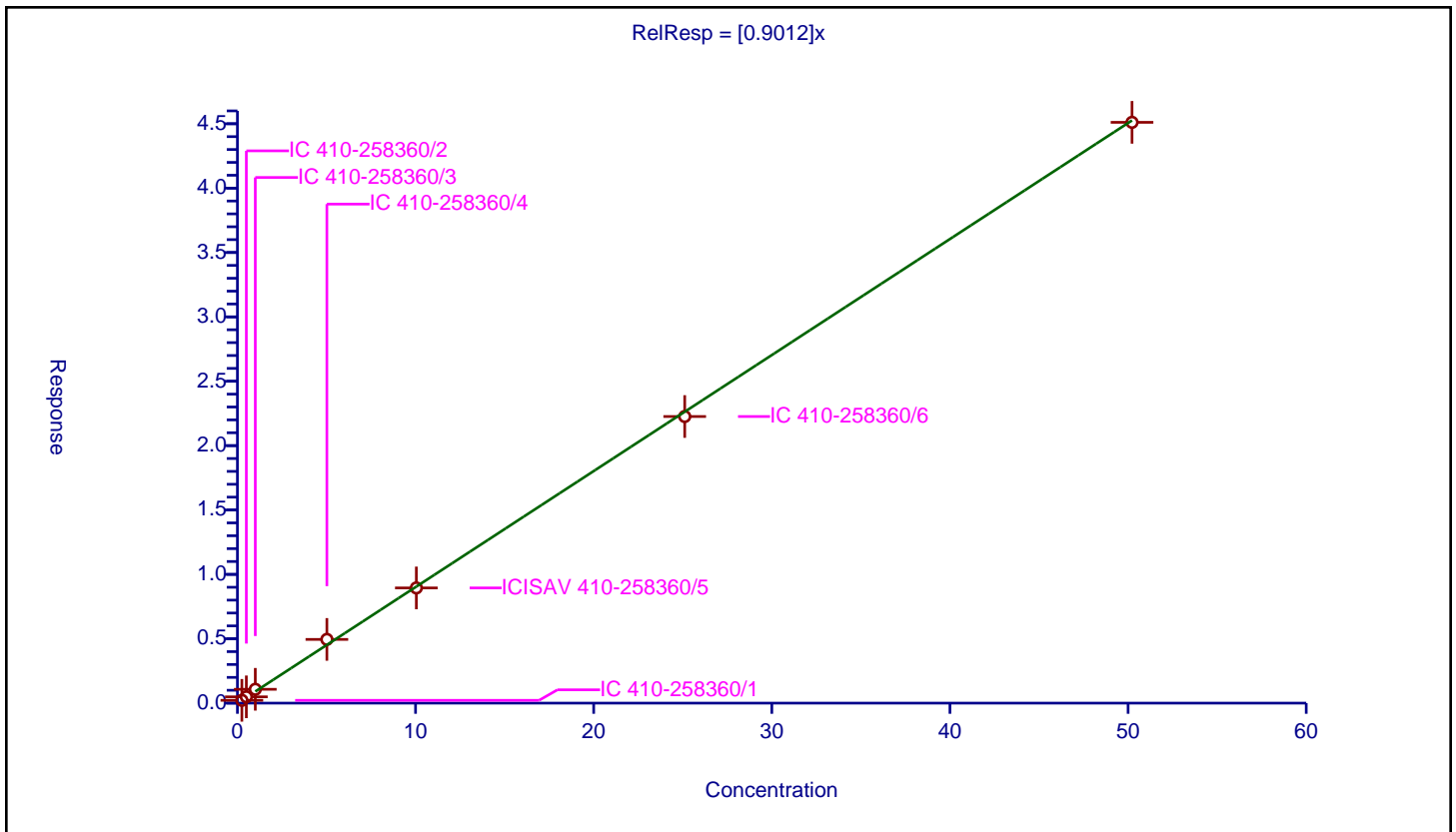
/ MFS_N4

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9012

Error Coefficients	
Standard Error:	3170000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.251111	0.217934	5.0	802422.0	0.86788	Y
2	IC 410-258360/2	0.502221	0.488509	5.0	844396.0	0.972696	Y
3	IC 410-258360/3	1.004443	1.075535	5.0	698378.0	1.070778	Y
4	IC 410-258360/4	5.022214	4.9483	5.0	744490.0	0.985283	Y
5	ICISAV 410-258360/5	10.044428	8.948637	5.0	768626.0	0.890906	Y
6	IC 410-258360/6	25.11107	22.261426	5.0	812348.0	0.886518	Y
7	IC 410-258360/7	50.222139	45.109561	5.0	741462.0	0.898201	Y



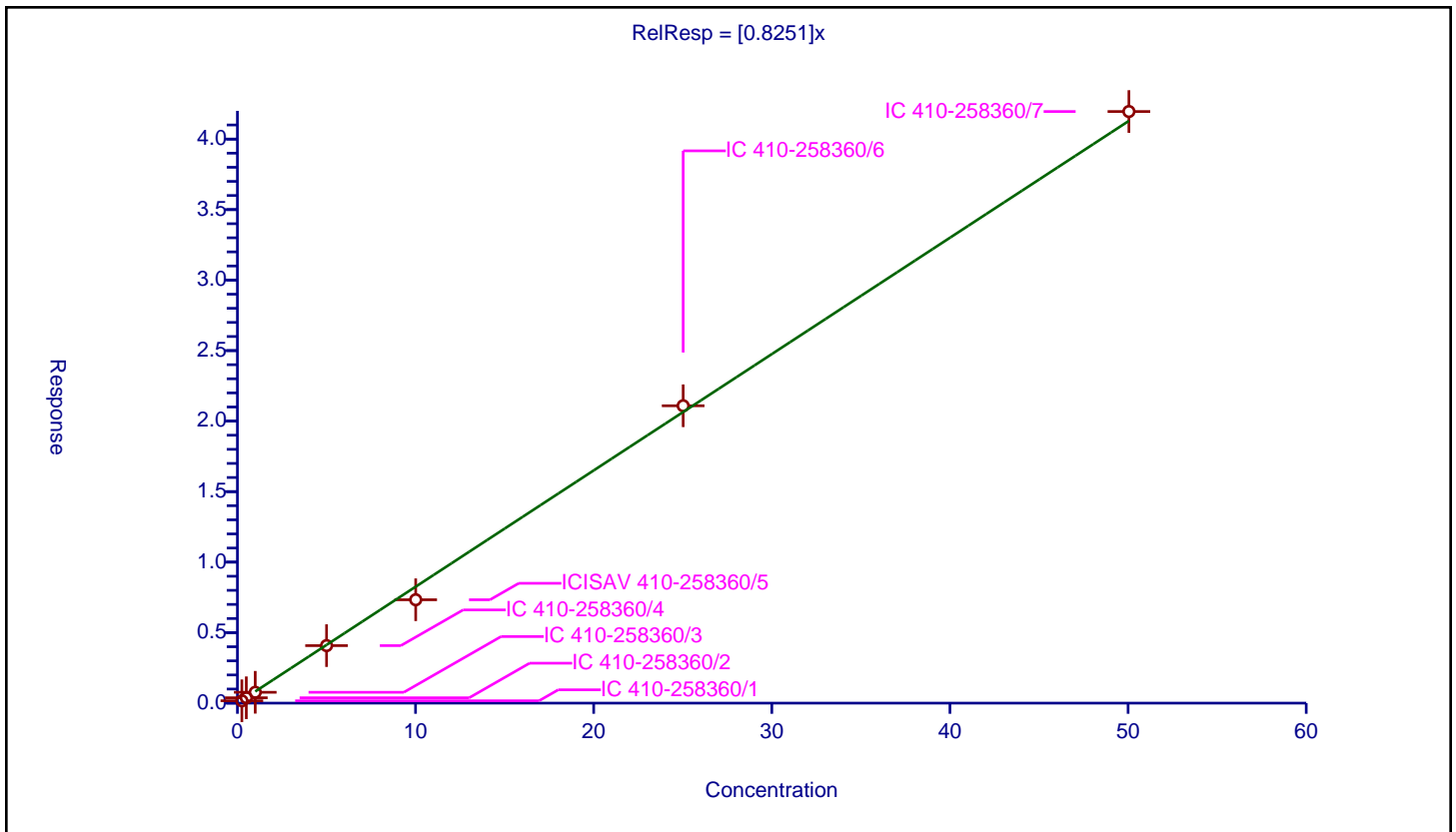
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8251

Error Coefficients	
Standard Error:	2950000
Relative Standard Error:	10.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-258360/1	0.250232	0.167219	5.0	802422.0	0.668255	Y
2	IC 410-258360/2	0.500464	0.381042	5.0	844396.0	0.761377	Y
3	IC 410-258360/3	1.000927	0.770192	5.0	698378.0	0.769478	Y
4	IC 410-258360/4	5.004636	4.079538	5.0	744490.0	0.815152	Y
5	ICISAV 410-258360/5	10.009272	7.331713	5.0	768626.0	0.732492	Y
6	IC 410-258360/6	25.02318	21.086726	5.0	812348.0	0.842688	Y
7	IC 410-258360/7	50.04636	41.955468	5.0	741462.0	0.838332	Y



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 260443

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2022 15:13 Calibration End Date: 05/31/2022 16:30 Calibration ID: 39146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260443/1	22MAY31MFS-01.d
Level 2	IC 410-260443/2	22MAY31MFS-02.d
Level 3	IC 410-260443/3	22MAY31MFS-03.d
Level 4	IC 410-260443/4	22MAY31MFS-04.d
Level 5	ICISAV 410-260443/5	22MAY31MFS-05.d
Level 6	IC 410-260443/6	22MAY31MFS-06.d
Level 7	IC 410-260443/7	22MAY31MFS-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	2.7335 2.7766	2.7388 2.5615	2.7592	2.8400	2.8663	LID1 F	2.672 1							0.9980		0.9900	
MFS_M3	1.9834 2.2129	2.1073 2.0218	2.1329	2.1722	2.2446	LID1 F	2.107 9							0.9980		0.9900	
MFS_N3	2.6312 2.9264	2.8229 2.6502	2.7916	2.9361	2.9569	LID1 F	2.776 9							0.9970		0.9900	
MFS_M4	1.0178 1.1664	1.1215 1.1084	1.0875	1.1362	1.1485	LID1 F	1.129 7							0.9990		0.9900	
MFS_N4	1.2393 1.0840	1.2784 1.0178	1.2320	1.2519	1.2004	Q2ID F	1.252 8	-0.005057						0.9990		0.9900	
MFS_N5	0.9930 1.1075	1.0721 0.9759	1.0117	1.1962	1.2237	Q2ID F	1.101 1	-0.001393						0.9900		0.9900	
13C3 HFPO-DA	0.2029 0.1894	0.2071 0.1942	0.1980	0.1982	0.1947	Ave	0.197 8				3.0						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 260443

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2022 15:13 Calibration End Date: 05/31/2022 16:30 Calibration ID: 39146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260443/1	22MAY31MFS-01.d
Level 2	IC 410-260443/2	22MAY31MFS-02.d
Level 3	IC 410-260443/3	22MAY31MFS-03.d
Level 4	IC 410-260443/4	22MAY31MFS-04.d
Level 5	ICISAV 410-260443/5	22MAY31MFS-05.d
Level 6	IC 410-260443/6	22MAY31MFS-06.d
Level 7	IC 410-260443/7	22MAY31MFS-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		LID1	148323	465936	657188	3488080	6620320	0.252	0.505	1.01	5.05	10.1
		F	18074839	32344615				25.2	50.5			
MFS_M3		LID1	107793	359078	508836	2672144	5192653	0.253	0.505	1.01	5.05	10.1
		F	14427948	25571095				25.3	50.5			
MFS_N3		LID1	141685	476591	659850	3578709	6777789	0.250	0.501	1.00	5.01	10.0
		F	18904845	33210187				25.0	50.1			
MFS_M4		LID1	55803	192783	261711	1409975	2680295	0.255	0.510	1.02	5.10	10.2
		F	7671759	14141092				25.5	51.0			
MFS_N4		Q2ID	66929	216465	292068	1530356	2759659	0.251	0.502	1.00	5.02	10.0
		F	7023071	12791301				25.1	50.2			
MFS_N5		Q2ID	53438	180892	238992	1457101	2803299	0.250	0.500	1.00	5.00	10.0
		F	7150200	12221802				25.0	50.0			
13C3 HFPO-DA	13PF OA	Ave	1075346	1685727	1180062	1217006	1144344	5.00	5.00	5.00	5.00	5.00
			1290069	1251226				5.00	5.00			

Curve Type Legend

Ave = Average ISTD
LID1F = Linear 1/Conc IsoDil FZ
Q2IDF = Quadratic 1/conc^2 IsoDil FZ

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-83867-1 Analy Batch No.: 260443

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2022 15:13 Calibration End Date: 05/31/2022 16:30 Calibration ID: 39146

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-260443/1	22MAY31MFS-01.d
Level 2	IC 410-260443/2	22MAY31MFS-02.d
Level 3	IC 410-260443/3	22MAY31MFS-03.d
Level 4	IC 410-260443/4	22MAY31MFS-04.d
Level 5	ICISAV 410-260443/5	22MAY31MFS-05.d
Level 6	IC 410-260443/6	22MAY31MFS-06.d
Level 7	IC 410-260443/7	22MAY31MFS-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	2.3 -4.1	2.5	3.3	6.3	7.3	3.9	50 30	30	30	30	30	30
MFS_M3	-5.9 -4.1	0.0	1.2	3.0	6.5	5.0	50 30	30	30	30	30	30
MFS_N3	-5.2 -4.6	1.7	0.5	5.7	6.5	5.4	50 30	30	30	30	30	30
MFS_M4	-9.9 -1.9	-0.7	-3.7	0.6	1.7	3.3	50 30	30	30	30	30	30
MFS_N4	-1.0 2.6	2.3	-1.3	2.0	-0.1	-4.2	50 30	30	30	30	30	30
MFS_N5	-9.8 -5.7	-2.6	-8.0	9.4	12.7	4.0	50 30	30	30	30	30	30
13C3 HFPO-DA	2.6						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-May-2022 15:13:37 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:28 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:03

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.476	4.472	0.004	0.880	1075346	5.13	103	2088
* 2 13C2 PFOA	415.00 > 370.00	5.085	5.075	0.010		5298630	5.00		3071
3 MFS_N2	461.00 > 367.00	5.316	5.308	0.008	1.188	148323	0.2581	102	658
4 MFS_M3	577.00 > 483.00	5.899	5.892	0.007	1.318	107793	0.2378	94.1	109
5 MFS_N3	627.00 > 533.00	6.100	6.090	0.010	1.363	141685	0.2372	94.8	298
6 MFS_M4	743.00 > 649.00	6.486	6.479	0.007	1.449	55803	0.2297	90.1	396
7 MFS_N4	793.00 > 699.00	6.618	6.613	0.005	1.479	66929	0.2486	99.0	391
8 MFS_N5	959.00 > 865.00	6.993	6.988	0.005	1.562	53438	0.2257	90.2	462

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-01.d

Injection Date: 31-May-2022 15:13:37

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

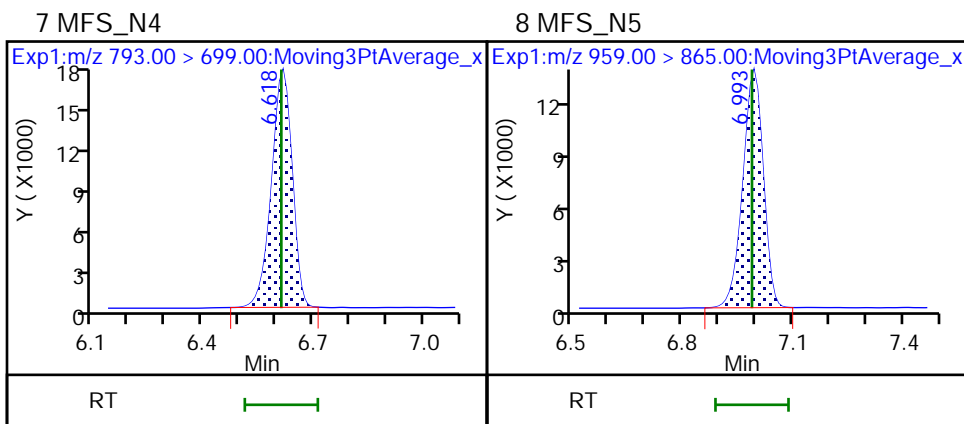
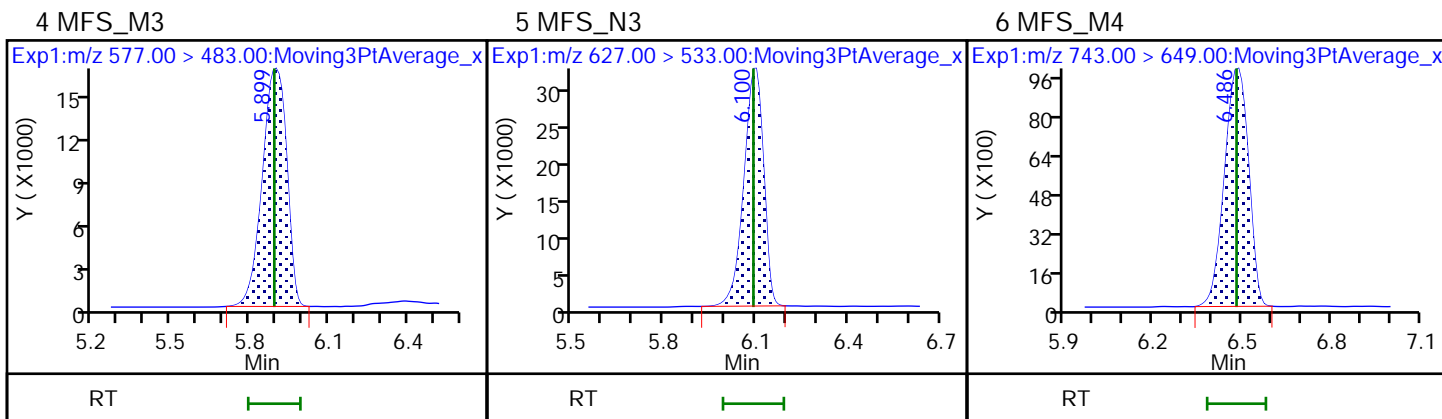
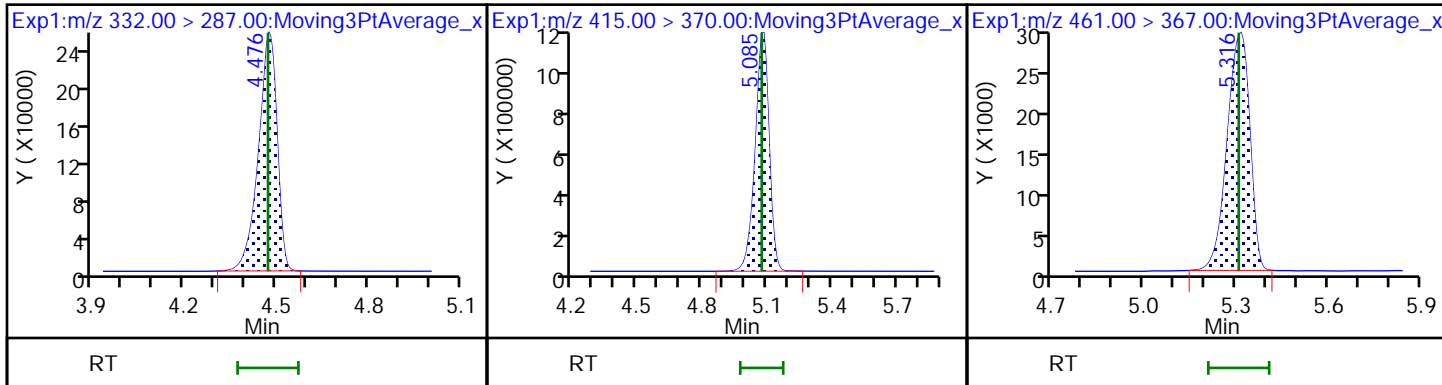
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-May-2022 15:27:38 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:28 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.881	1685727	5.24	105	2381
* 2 13C2 PFOA	415.00 > 370.00	5.077	5.075	0.002		8138060	5.00		3741
3 MFS_N2	461.00 > 367.00	5.310	5.308	0.002	1.187	465936	0.5172	102	1690
4 MFS_M3	577.00 > 483.00	5.899	5.892	0.007	1.319	359078	0.5053	100.0	298
5 MFS_N3	627.00 > 533.00	6.091	6.090	0.001	1.362	476591	0.5091	102	729
6 MFS_M4	743.00 > 649.00	6.483	6.479	0.004	1.449	192783	0.5062	99.3	989
7 MFS_N4	793.00 > 699.00	6.615	6.613	0.002	1.479	216465	0.5135	102	807
8 MFS_N5	959.00 > 865.00	6.989	6.988	0.001	1.563	180892	0.4876	97.4	1370

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-02.d

Injection Date: 31-May-2022 15:27:38

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

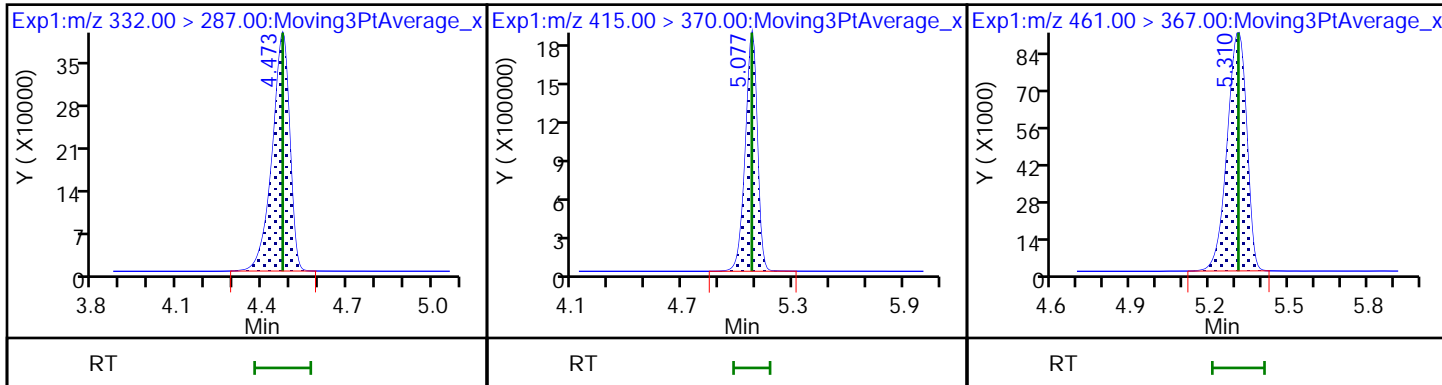
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

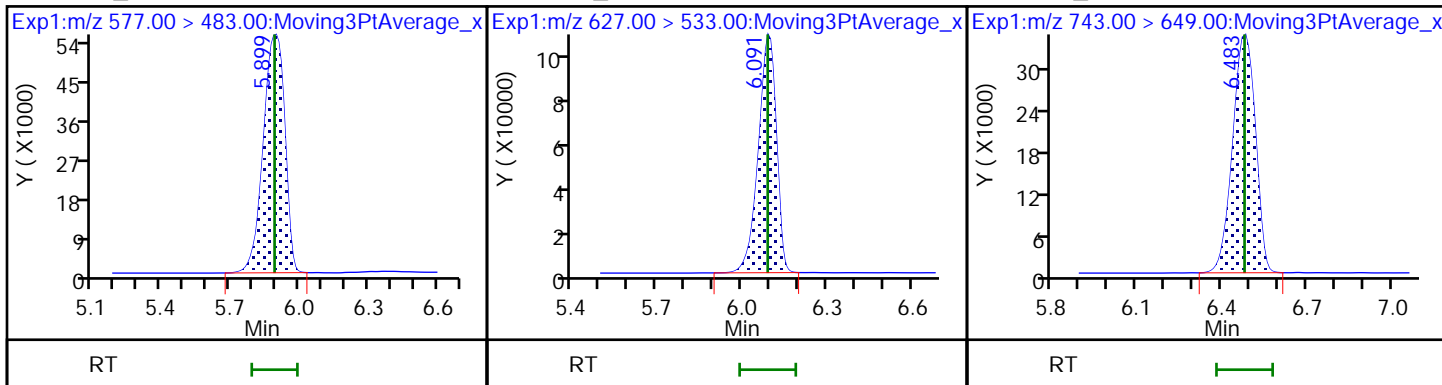
3 MFS_N2



4 MFS_M3

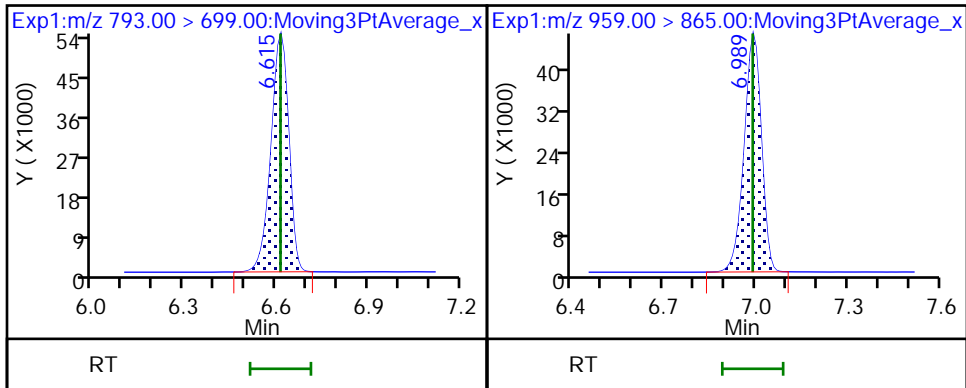
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 31-May-2022 15:40:12 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:29 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.881	1180062	5.01	100	2203
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.075	0.003		5960092	5.00		3332
3 MFS_N2	461.00 > 367.00	5.308	5.308	0.0	1.187	657188	1.04	103	2298
4 MFS_M3	577.00 > 483.00	5.896	5.892	0.004	1.318	508836	1.02	101	400
5 MFS_N3	627.00 > 533.00	6.088	6.090	-0.002	1.361	659850	1.01	101	913
6 MFS_M4	743.00 > 649.00	6.481	6.479	0.002	1.449	261711	0.9816	96.3	1207
7 MFS_N4	793.00 > 699.00	6.613	6.613	0.0	1.479	292068	0.99	98.7	1120
8 MFS_N5	959.00 > 865.00	6.986	6.988	-0.002	1.562	238992	0.9207	92.0	1770

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-03.d

Injection Date: 31-May-2022 15:40:12

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

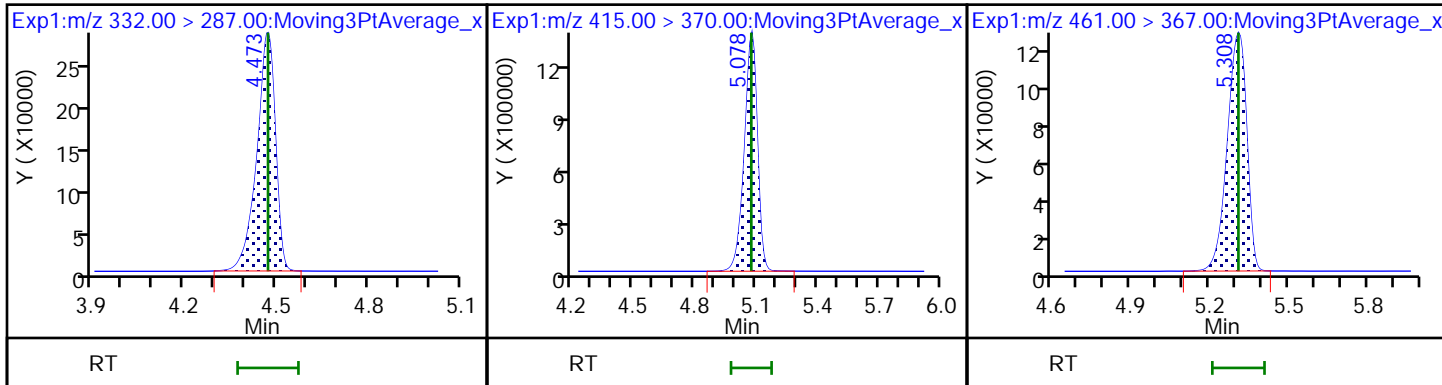
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

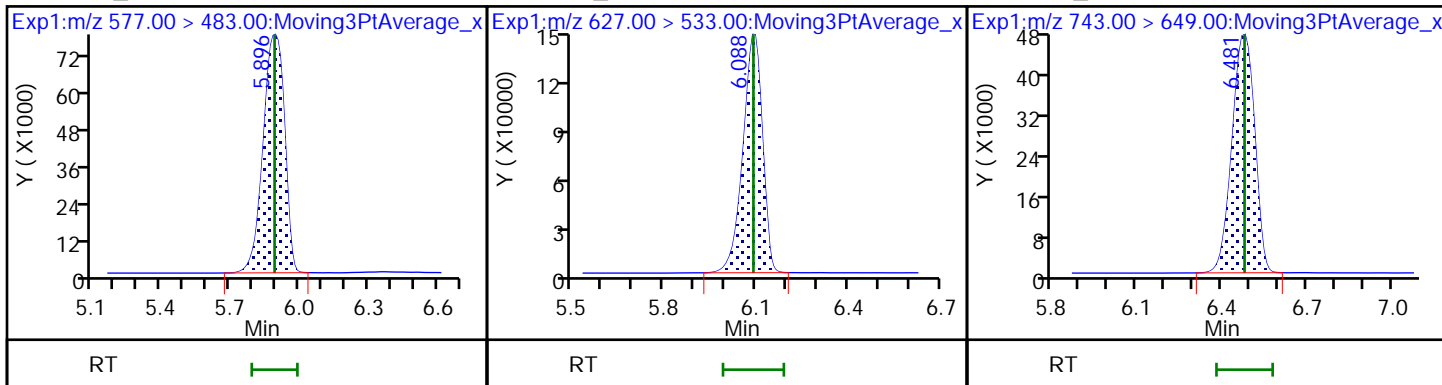
3 MFS_N2



4 MFS_M3

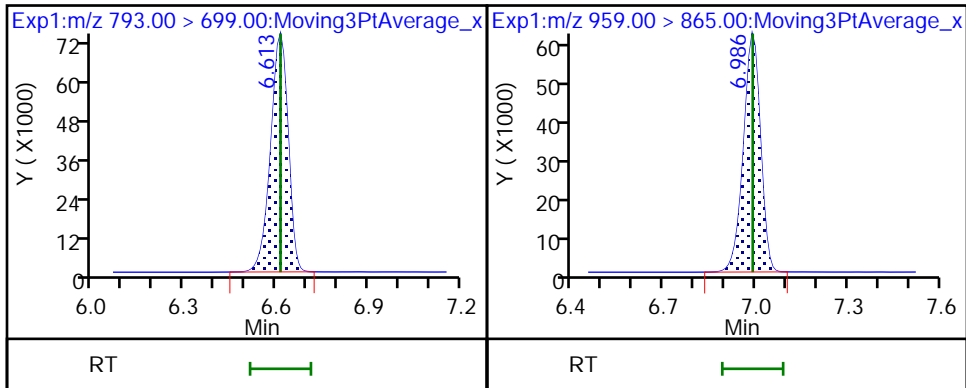
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 31-May-2022 15:52:49 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:30 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:20

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.467	4.472	-0.005	0.881	1217006	5.01	100	2191
* 2 13C2 PFOA	415.00 > 370.00	5.068	5.075	-0.007		6141398	5.00		3679
3 MFS_N2	461.00 > 367.00	5.304	5.308	-0.004	1.187	3488080	5.36	106	8390
4 MFS_M3	577.00 > 483.00	5.890	5.892	-0.002	1.319	2672144	5.21	103	1251
5 MFS_N3	627.00 > 533.00	6.085	6.090	-0.005	1.362	3578709	5.29	106	3060
6 MFS_M4	743.00 > 649.00	6.476	6.479	-0.003	1.450	1409975	5.13	101	2696
7 MFS_N4	793.00 > 699.00	6.610	6.613	-0.003	1.480	1530356	5.12	102	2715
8 MFS_N5	959.00 > 865.00	6.985	6.988	-0.003	1.564	1457101	5.47	109	4874

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-04.d

Injection Date: 31-May-2022 15:52:49

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

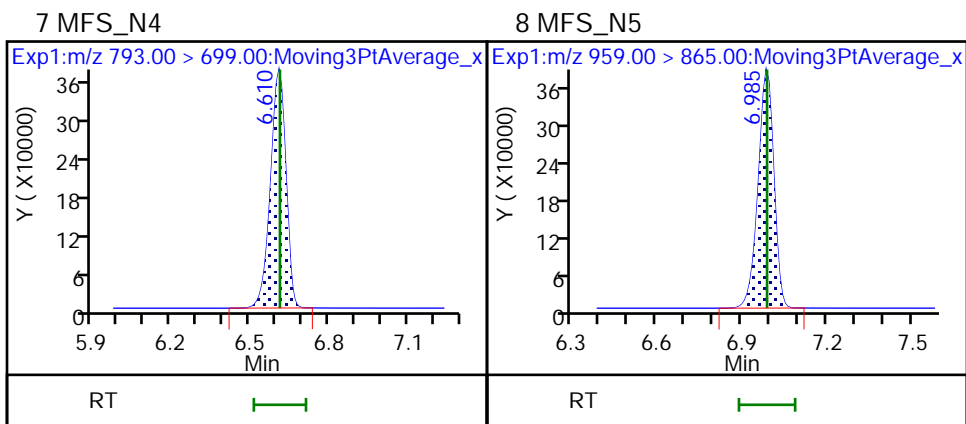
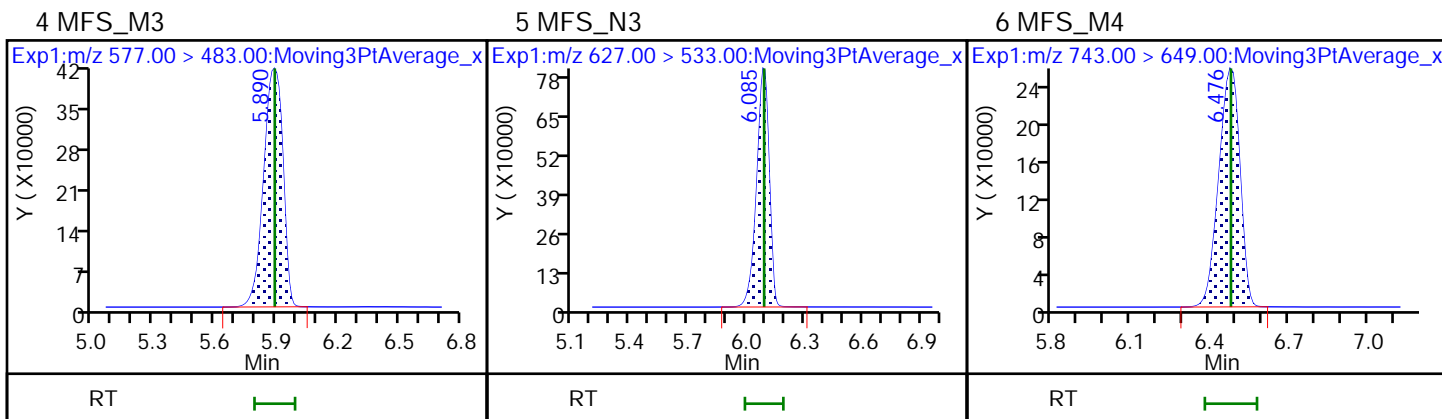
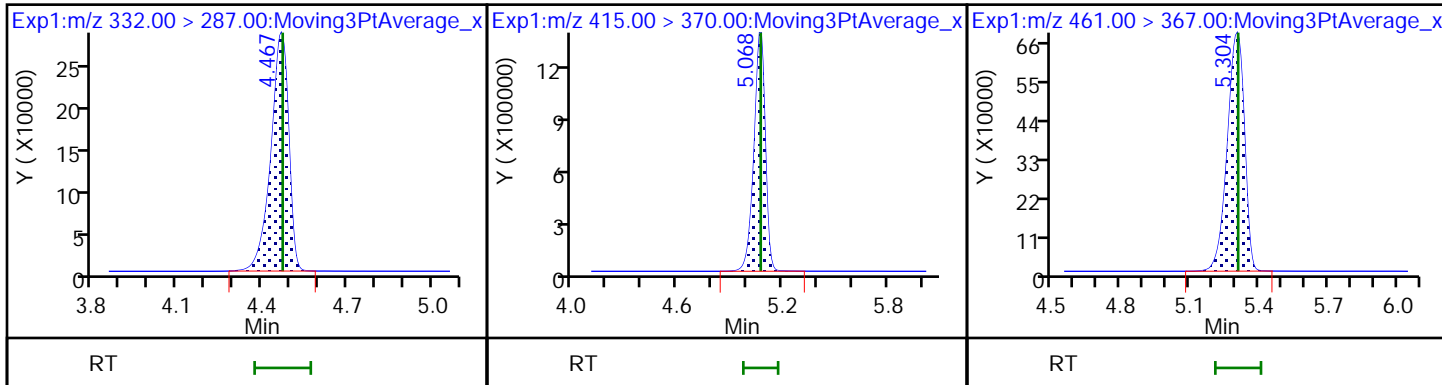
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 31-May-2022 16:05:26 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:30 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:33:54

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.472	0.0	0.882	1144344	4.92	98.4	2102
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.075	-0.006		5878779	5.00		3244
3 MFS_N2	461.00 > 367.00	5.308	5.308	0.0	1.187	6620320	10.8	107	12157
4 MFS_M3	577.00 > 483.00	5.886	5.892	-0.006	1.316	5192653	10.8	106	1801
5 MFS_N3	627.00 > 533.00	6.088	6.090	-0.002	1.361	6777789	10.7	106	3949
6 MFS_M4	743.00 > 649.00	6.471	6.479	-0.008	1.447	2680295	10.4	102	3562
7 MFS_N4	793.00 > 699.00	6.615	6.613	0.002	1.479	2759659	10.0	99.9	3540
8 MFS_N5	959.00 > 865.00	6.990	6.988	0.002	1.563	2803299	11.3	113	5933

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-05.d

Injection Date: 31-May-2022 16:05:26

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

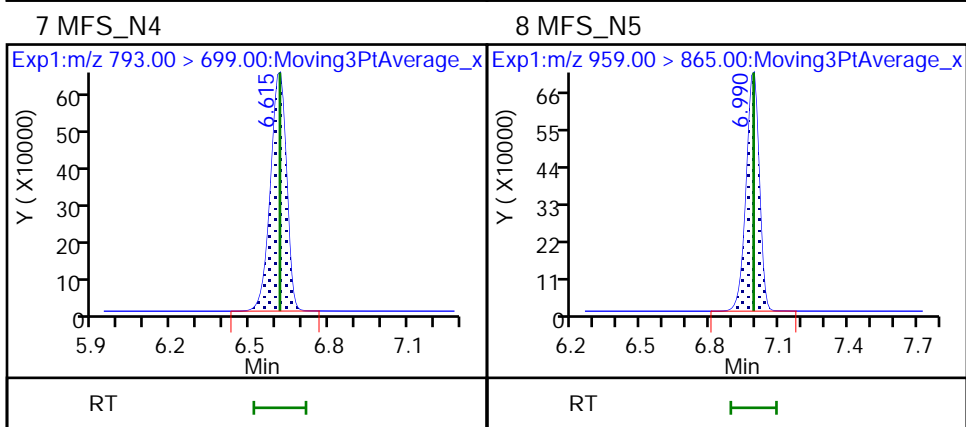
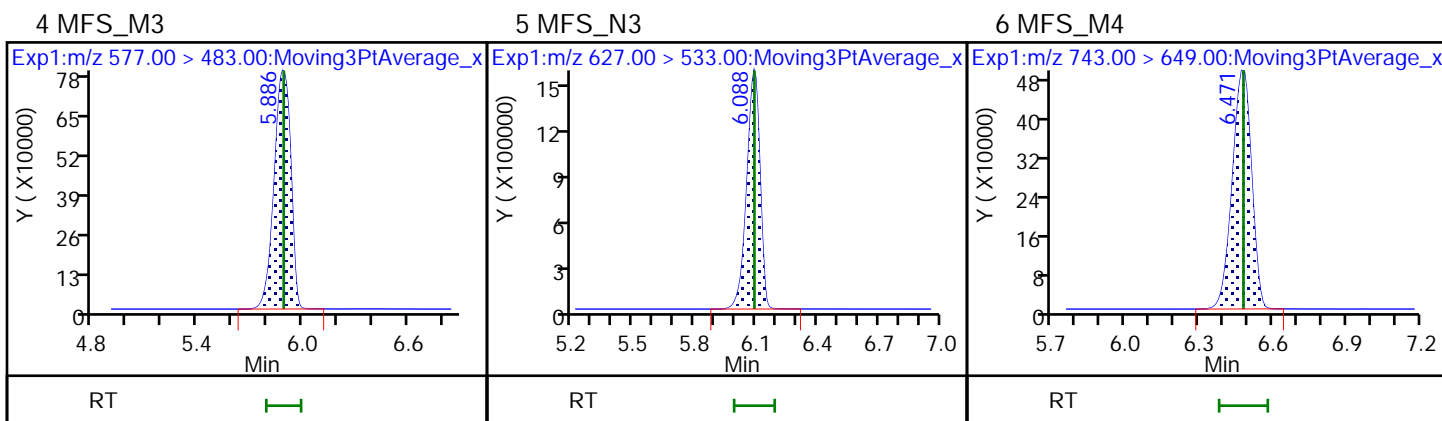
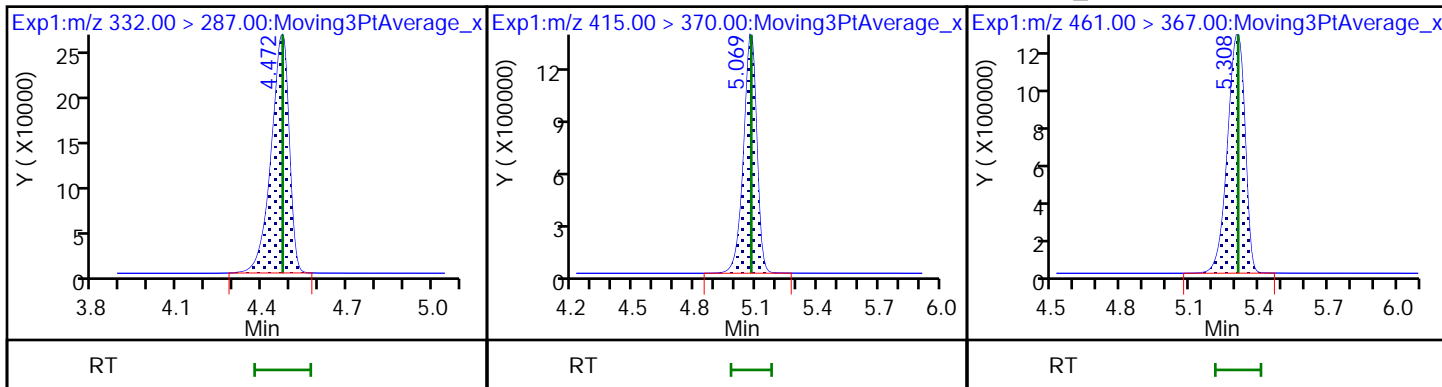
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 31-May-2022 16:18:04 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:31 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.881	1290069	4.79	95.8	2058
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.075	0.004		6811775	5.00		3384
3 MFS_N2	461.00 > 367.00	5.308	5.308	0.0	1.187	18074839	26.2	104	18101
4 MFS_M3	577.00 > 483.00	5.888	5.892	-0.004	1.316	14427948	26.5	105	2821
5 MFS_N3	627.00 > 533.00	6.091	6.090	0.001	1.362	18904845	26.4	105	4861
6 MFS_M4	743.00 > 649.00	6.485	6.479	0.006	1.450	7671759	26.3	103	4054
7 MFS_N4	793.00 > 699.00	6.618	6.613	0.005	1.479	7023071	24.1	95.8	4036
8 MFS_N5	959.00 > 865.00	6.992	6.988	0.004	1.563	7150200	26.0	104	6007

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-06.d

Injection Date: 31-May-2022 16:18:04

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

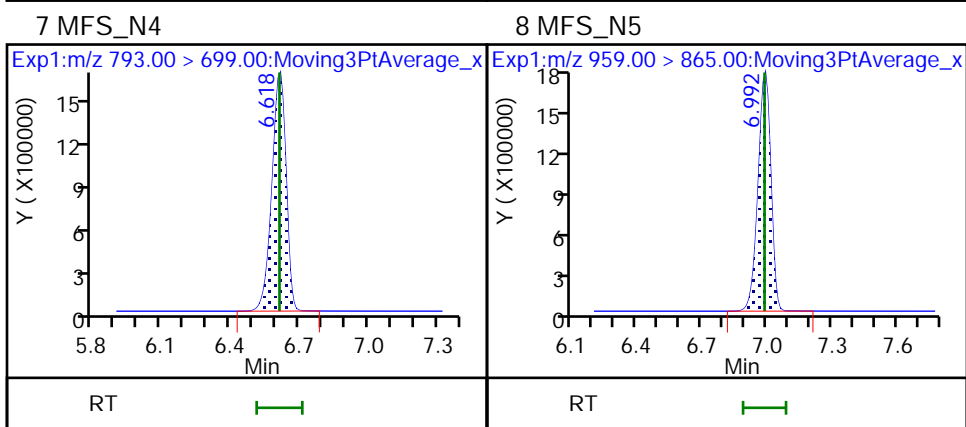
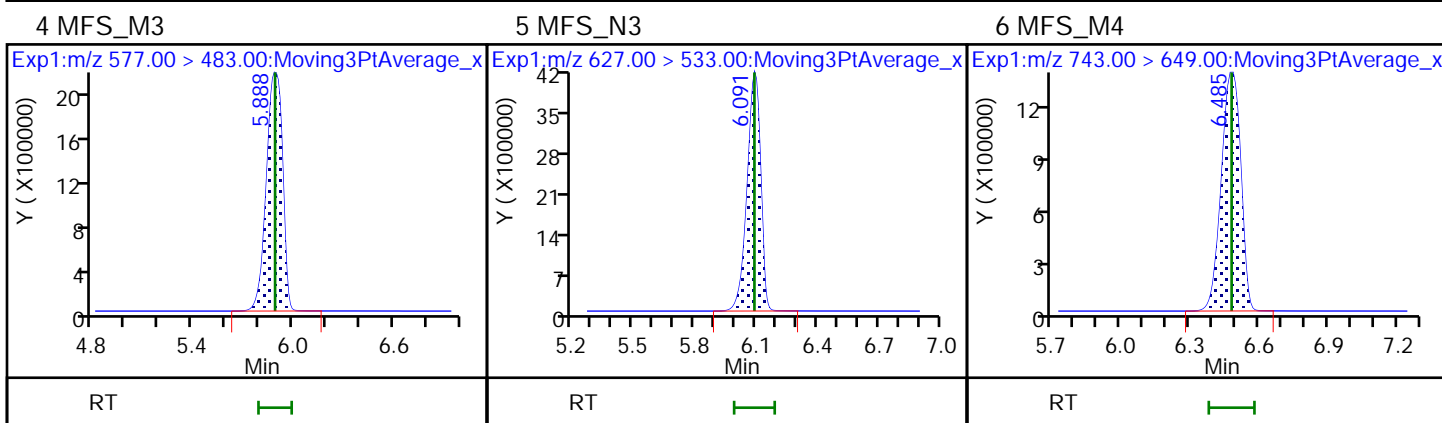
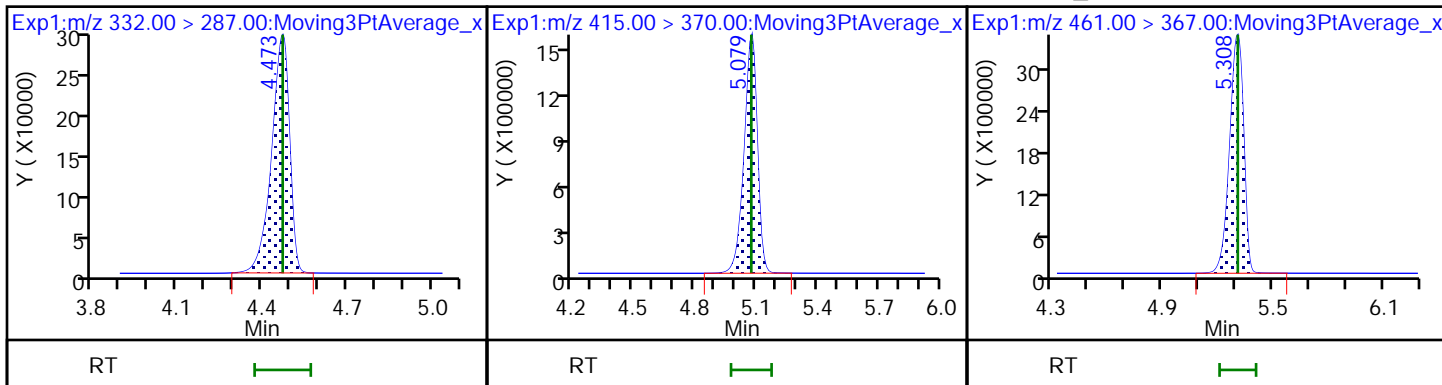
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 31-May-2022 16:30:38 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:31 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:31

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.882	1251226	4.91	98.2	2180
* 2 13C2 PFOA	415.00 > 370.00	5.069	5.075	-0.006		6442839	5.00		3905
3 MFS_N2	461.00 > 367.00	5.301	5.308	-0.007	1.185	32344615	48.4	95.9	18946
4 MFS_M3	577.00 > 483.00	5.886	5.892	-0.006	1.316	25571095	48.5	95.9	3068
5 MFS_N3	627.00 > 533.00	6.088	6.090	-0.002	1.361	33210187	47.8	95.4	7171
6 MFS_M4	743.00 > 649.00	6.471	6.479	-0.008	1.447	14141092	50.0	98.1	5217
7 MFS_N4	793.00 > 699.00	6.605	6.613	-0.008	1.477	12791301	51.5	103	5460
8 MFS_N5	959.00 > 865.00	6.979	6.988	-0.009	1.560	12221802	47.2	94.3	5663

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Injection Date: 31-May-2022 16:30:38

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

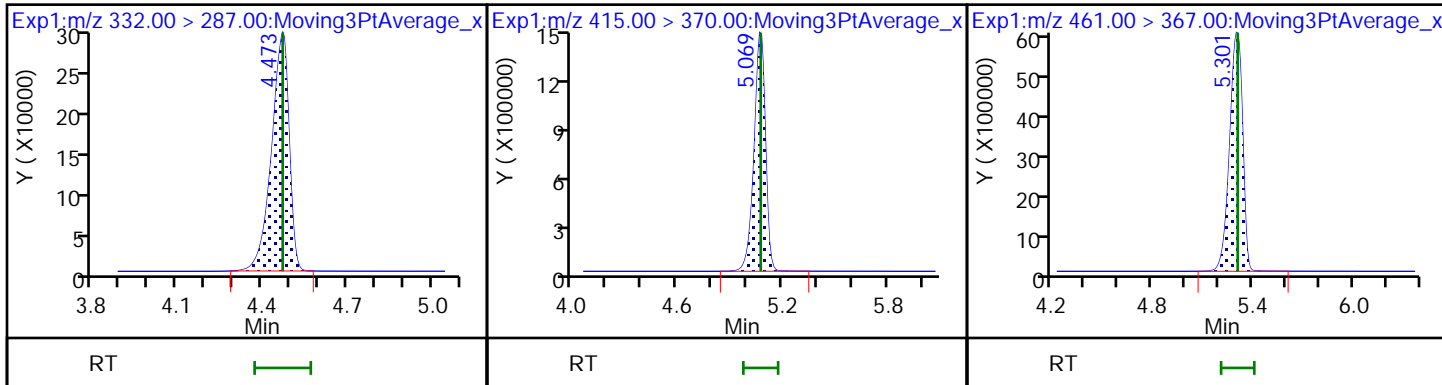
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

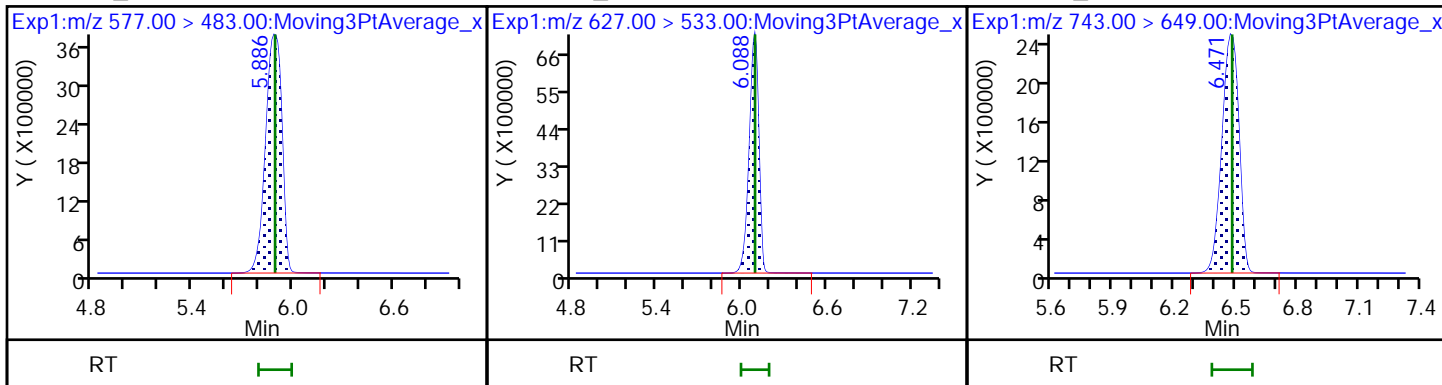
3 MFS_N2



4 MFS_M3

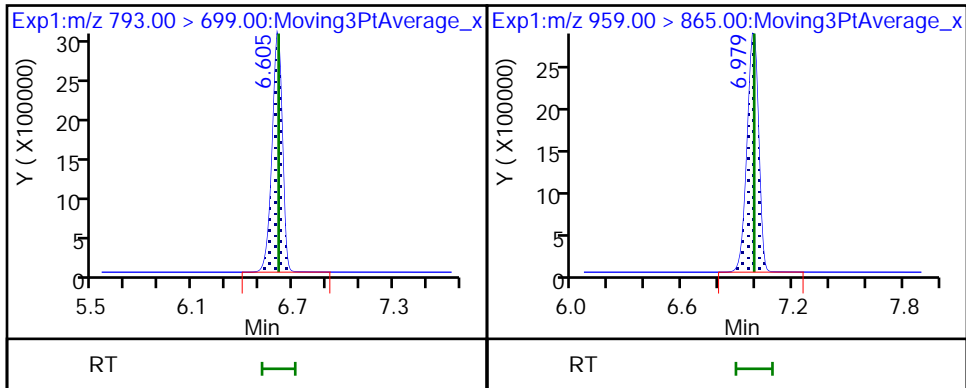
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Calibration

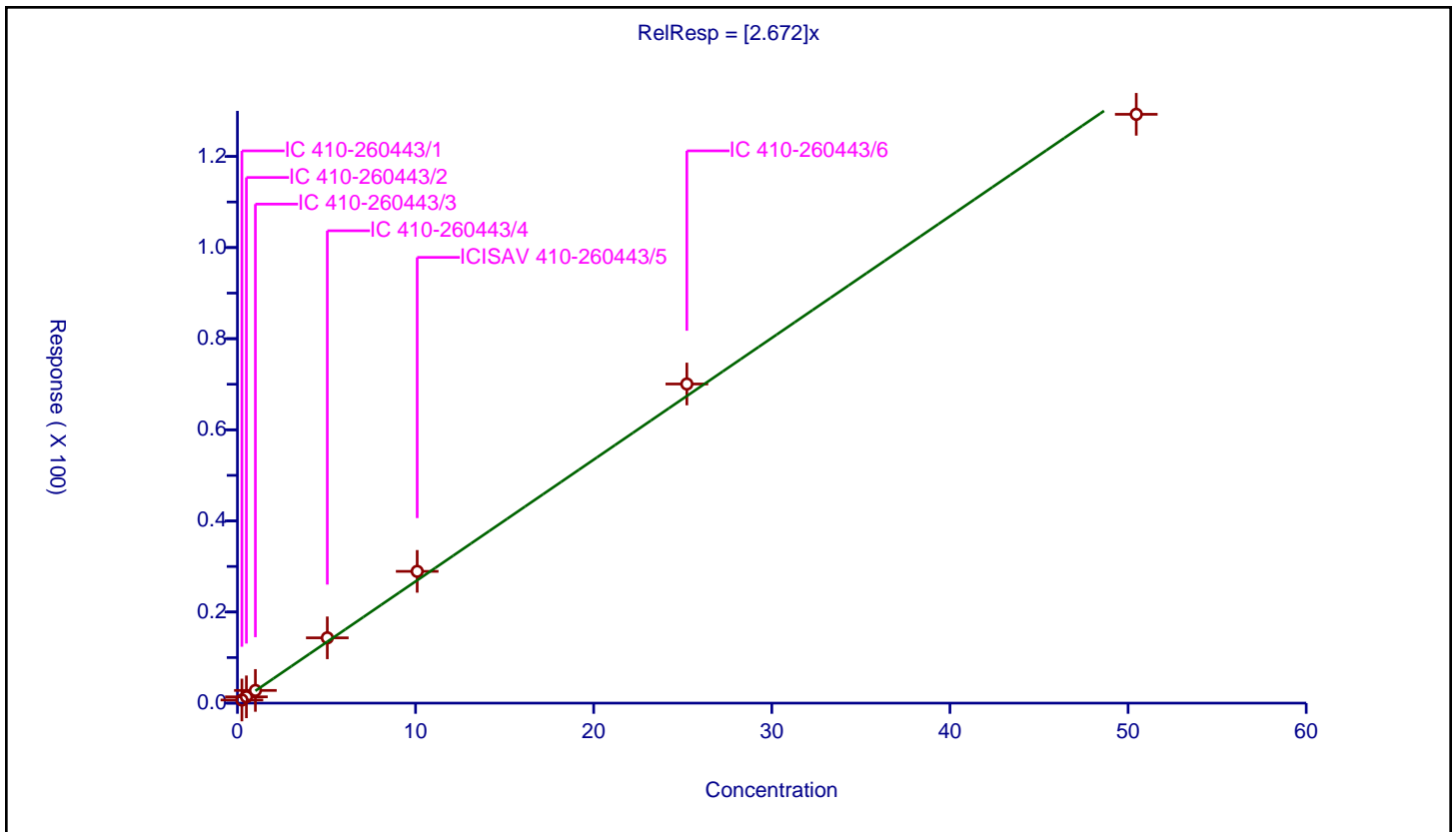
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.672

Error Coefficients	
Standard Error:	15400000
Relative Standard Error:	4.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.252299	0.689652	5.0	1075346.0	2.733477	Y
2	IC 410-260443/2	0.504597	1.382003	5.0	1685727.0	2.738824	Y
3	IC 410-260443/3	1.009195	2.784549	5.0	1180062.0	2.759179	Y
4	IC 410-260443/4	5.045973	14.330578	5.0	1217006.0	2.840003	Y
5	ICISAV 410-260443/5	10.091946	28.926267	5.0	1144344.0	2.866273	Y
6	IC 410-260443/6	25.229864	70.053768	5.0	1290069.0	2.776621	Y
7	IC 410-260443/7	50.459728	129.25169	5.0	1251226.0	2.561482	Y



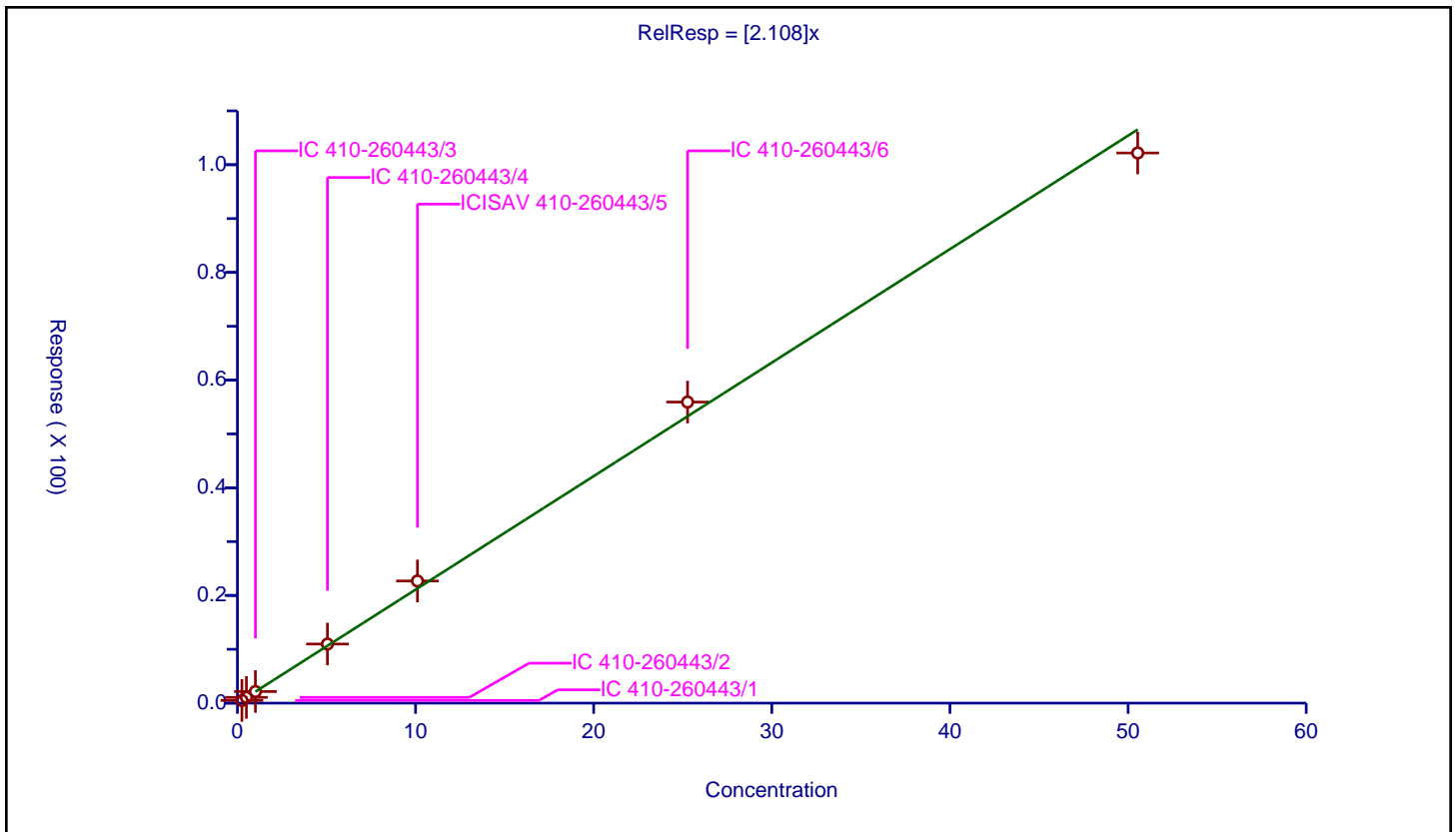
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.108

Error Coefficients	
Standard Error:	12200000
Relative Standard Error:	4.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.252702	0.501201	5.0	1075346.0	1.983369	Y
2	IC 410-260443/2	0.505404	1.065054	5.0	1685727.0	2.107331	Y
3	IC 410-260443/3	1.010808	2.155971	5.0	1180062.0	2.132918	Y
4	IC 410-260443/4	5.054042	10.978352	5.0	1217006.0	2.172193	Y
5	ICISAV 410-260443/5	10.108084	22.688339	5.0	1144344.0	2.244574	Y
6	IC 410-260443/6	25.270209	55.919288	5.0	1290069.0	2.212854	Y
7	IC 410-260443/7	50.540418	102.184158	5.0	1251226.0	2.02183	Y



Calibration

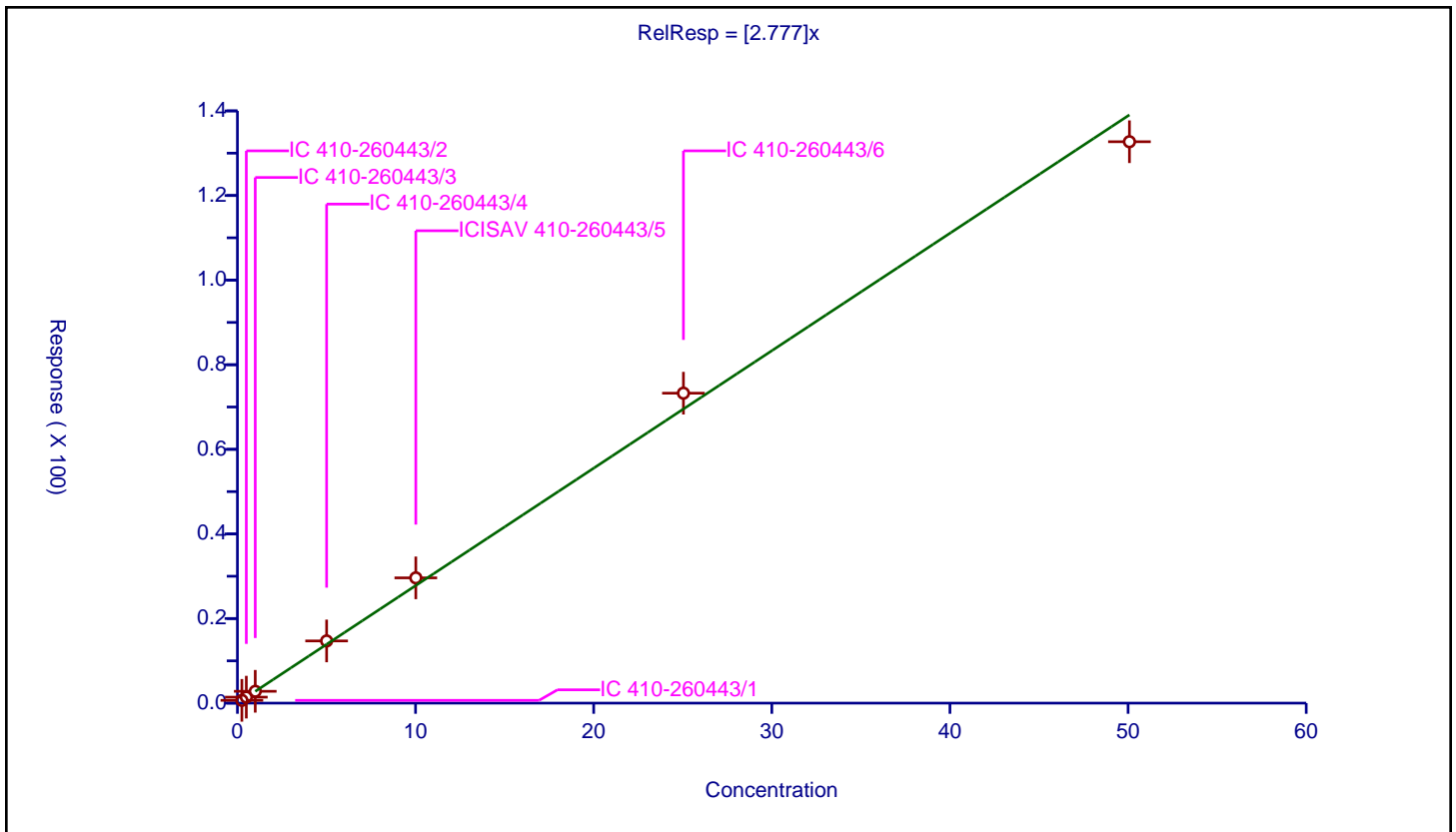
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.777

Error Coefficients	
Standard Error:	15900000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.25038	0.658788	5.0	1075346.0	2.631152	Y
2	IC 410-260443/2	0.50076	1.413607	5.0	1685727.0	2.822922	Y
3	IC 410-260443/3	1.00152	2.795828	5.0	1180062.0	2.791584	Y
4	IC 410-260443/4	5.007601	14.702923	5.0	1217006.0	2.936121	Y
5	ICISAV 410-260443/5	10.015202	29.614299	5.0	1144344.0	2.956935	Y
6	IC 410-260443/6	25.038006	73.270674	5.0	1290069.0	2.926378	Y
7	IC 410-260443/7	50.076012	132.710585	5.0	1251226.0	2.650183	Y



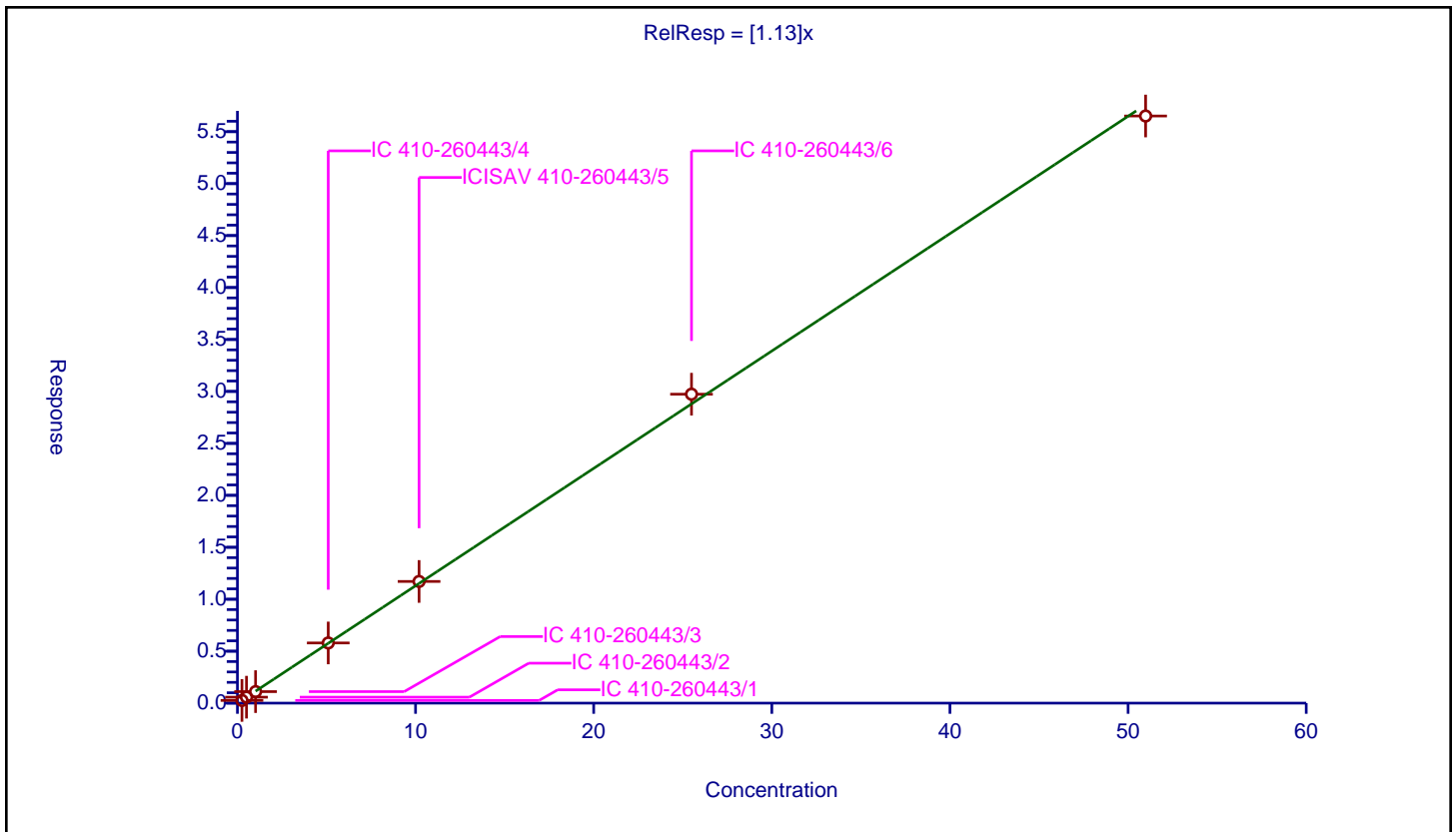
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.13

Error Coefficients	
Standard Error:	6680000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.254923	0.259465	5.0	1075346.0	1.017819	Y
2	IC 410-260443/2	0.509846	0.57181	5.0	1685727.0	1.121535	Y
3	IC 410-260443/3	1.019691	1.108887	5.0	1180062.0	1.087473	Y
4	IC 410-260443/4	5.098457	5.792802	5.0	1217006.0	1.136187	Y
5	ICISAV 410-260443/5	10.196913	11.711055	5.0	1144344.0	1.14849	Y
6	IC 410-260443/6	25.492283	29.73391	5.0	1290069.0	1.166389	Y
7	IC 410-260443/7	50.984566	56.508944	5.0	1251226.0	1.108354	Y



Calibration

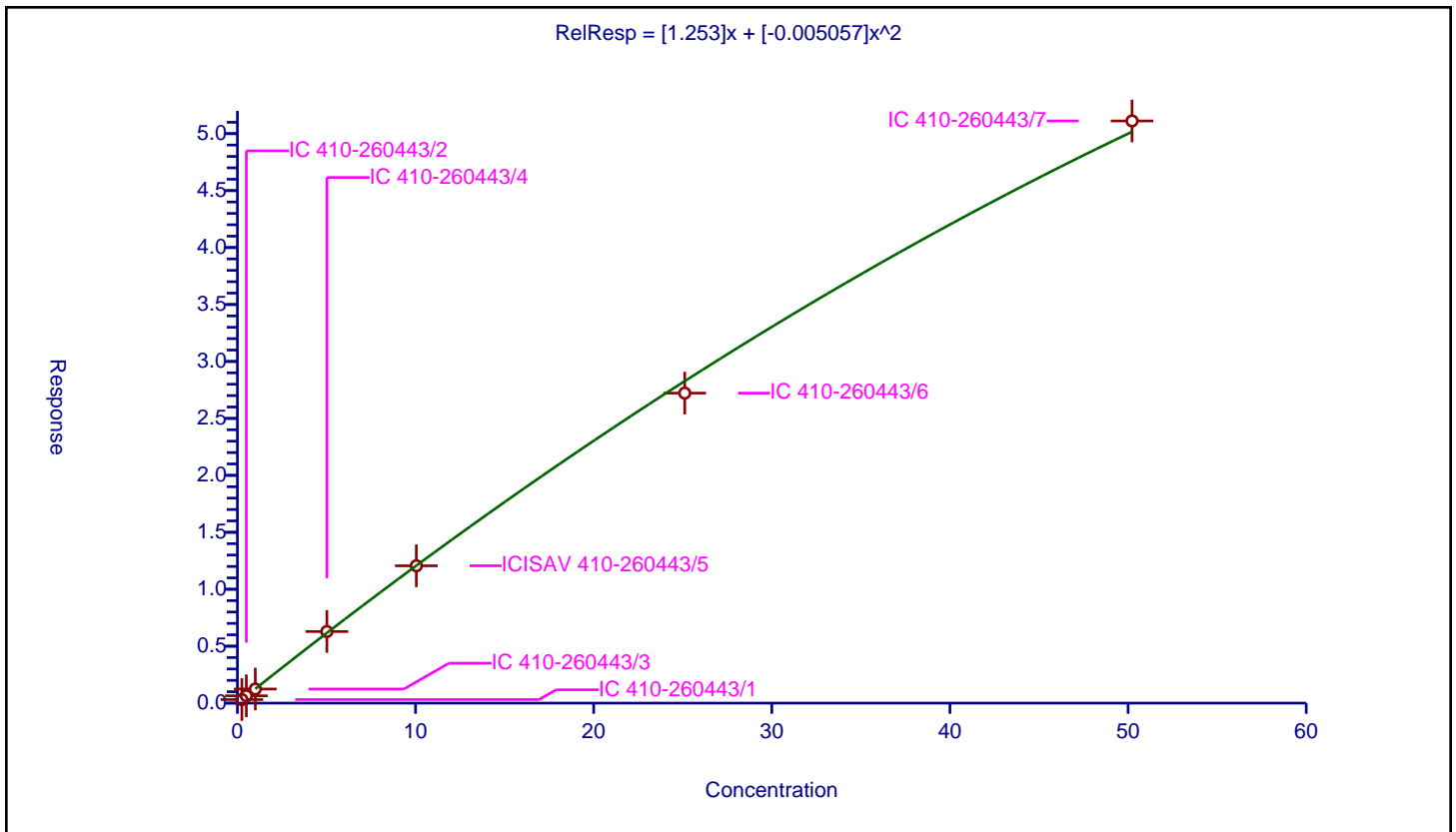
/ MFS_N4

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.253
Second Order:	-0.005057

Error Coefficients	
Standard Error:	6680000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.251111	0.311198	5.0	1075346.0	1.239284	Y
2	IC 410-260443/2	0.502221	0.642052	5.0	1685727.0	1.278425	Y
3	IC 410-260443/3	1.004443	1.237511	5.0	1180062.0	1.232038	Y
4	IC 410-260443/4	5.022214	6.287381	5.0	1217006.0	1.251914	Y
5	ICISAV 410-260443/5	10.044428	12.057821	5.0	1144344.0	1.200449	Y
6	IC 410-260443/6	25.11107	27.219749	5.0	1290069.0	1.083974	Y
7	IC 410-260443/7	50.222139	51.11507	5.0	1251226.0	1.01778	Y



Calibration

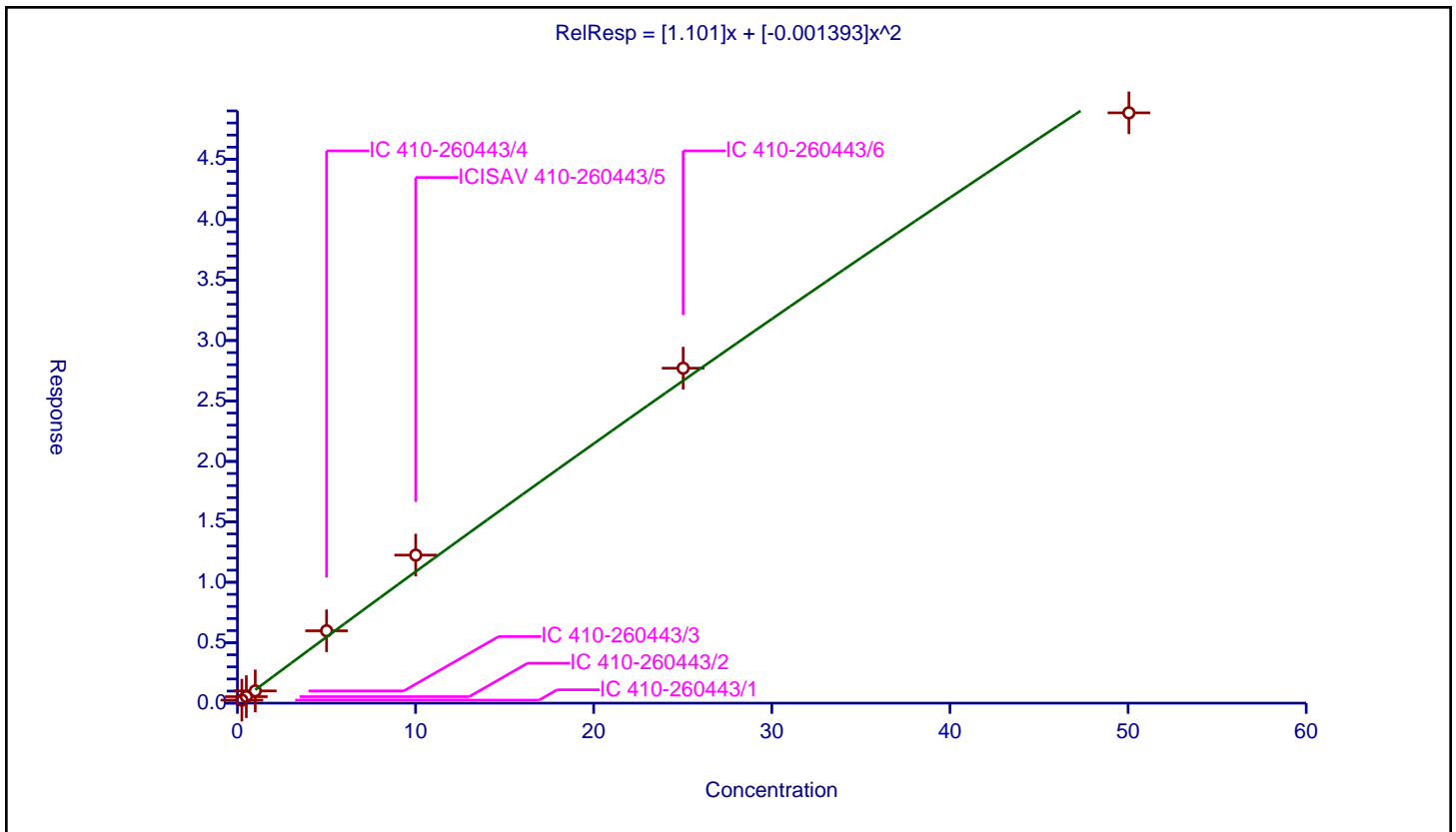
/ MFS_N5

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.101
Second Order:	-0.001393

Error Coefficients	
Standard Error:	6490000
Relative Standard Error:	9.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-260443/1	0.250232	0.248469	5.0	1075346.0	0.992955	Y
2	IC 410-260443/2	0.500464	0.53654	5.0	1685727.0	1.072086	Y
3	IC 410-260443/3	1.000927	1.012625	5.0	1180062.0	1.011687	Y
4	IC 410-260443/4	5.004636	5.986417	5.0	1217006.0	1.196174	Y
5	ICISAV 410-260443/5	10.009272	12.248498	5.0	1144344.0	1.223715	Y
6	IC 410-260443/6	25.02318	27.712471	5.0	1290069.0	1.107472	Y
7	IC 410-260443/7	50.04636	48.839306	5.0	1251226.0	0.975881	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: ICV 410-258360/9 Calibration Date: 05/24/2022 09:06
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.470		1.00	1.01	-0.7	30.0
MFS_M3	LID1F		1.877		1.01	1.01	-0.1	30.0
MFS_N3	LID1F		2.378		0.979	1.00	-2.3	30.0
MFS_M4	LID1F		0.9596		1.05	1.02	3.1	30.0
MFS_N4	LID1F		1.050		1.10	1.00	9.5	30.0
MFS_N5	LID1F		0.7744		1.04	1.00	3.5	30.0
13C3 HFPO-DA	Ave	0.2262	0.2307		5.10	5.00	2.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-09.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 24-May-2022 09:06:26 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 09:39:43 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:24

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.470	4.468	0.002	0.881	687764	5.10	102	2378
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		2981765	5.00		3354
3 MFS_N2	461.00 > 367.00	5.303	5.301	0.002	1.186	342845	1.00		287
4 MFS_M3	577.00 > 483.00	5.890	5.888	0.002	1.318	260913	1.01		214
5 MFS_N3	627.00 > 533.00	6.093	6.091	0.002	1.363	327657	0.9786		258
6 MFS_M4	743.00 > 649.00	6.476	6.483	-0.007	1.449	134601	1.05		675
7 MFS_N4	793.00 > 699.00	6.611	6.616	-0.005	1.479	145107	1.10		700
8 MFS_N5	959.00 > 865.00	6.995	6.990	0.005	1.565	106618	1.04		862

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-09.d

Injection Date: 24-May-2022 09:06:26

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

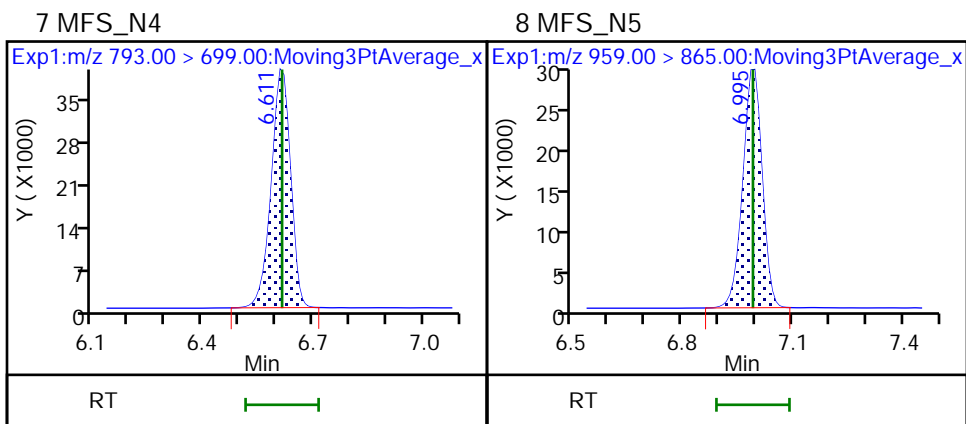
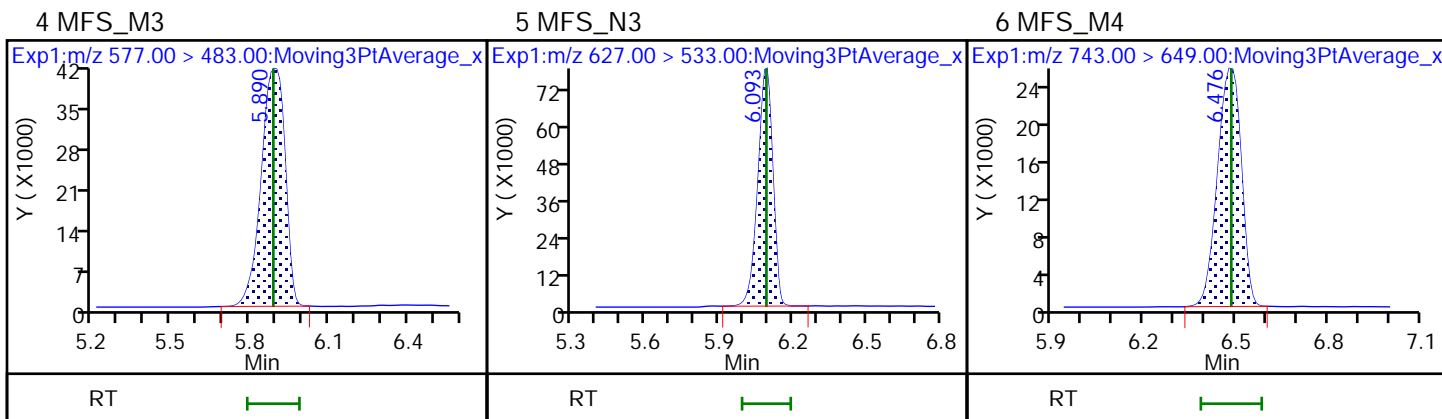
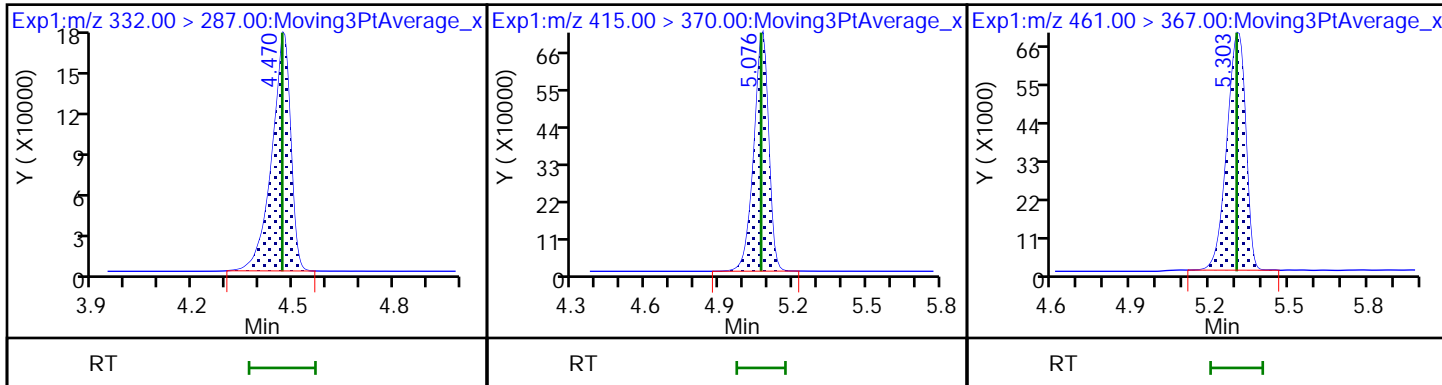
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-258462/1 Calibration Date: 05/24/2022 09:56
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.590		0.525	0.505	4.1	30.0
MFS_M3	LID1F		1.957		0.527	0.505	4.2	30.0
MFS_N3	LID1F		2.597		0.534	0.501	6.7	30.0
MFS_M4	LID1F		0.8106		0.444	0.510	-12.9	30.0
MFS_N4	LID1F		1.052		0.586	0.502	16.8	30.0
MFS_N5	LID1F		0.8174		0.496	0.500	-0.9	30.0
13C3 HFPO-DA	Ave	0.2262	0.2158		4.77	5.00	-4.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-13.d
 Lims ID: CCV 1_CAL2
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-May-2022 09:56:55 ALS Bottle#: 3 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 1_CAL2
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:46 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 12:00:07

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.468	0.005	0.882	781272	4.77	95.4	2618
* 2 13C2 PFOA	415.00 > 370.00	5.070	5.069	0.001		3621049	5.00		4649
3 MFS_N2	461.00 > 367.00	5.302	5.301	0.001	1.185	204193	0.5253	104	210
4 MFS_M3	577.00 > 483.00	5.900	5.888	0.012	1.319	154556	0.5266	104	148
5 MFS_N3	627.00 > 533.00	6.092	6.091	0.001	1.362	203200	0.5342	107	185
6 MFS_M4	743.00 > 649.00	6.486	6.483	0.003	1.450	64575	0.4439	87.1	457
7 MFS_N4	793.00 > 699.00	6.609	6.616	-0.007	1.477	82583	0.5865	117	490
8 MFS_N5	959.00 > 865.00	6.984	6.990	-0.006	1.561	63922	0.4958	99.1	773

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-13.d

Injection Date: 24-May-2022 09:56:55

Instrument ID: 30733

Lims ID: CCV 1_CAL2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

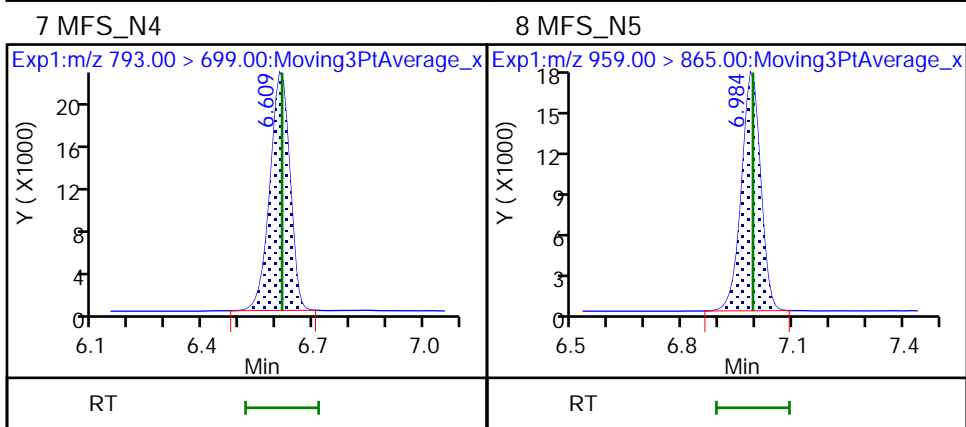
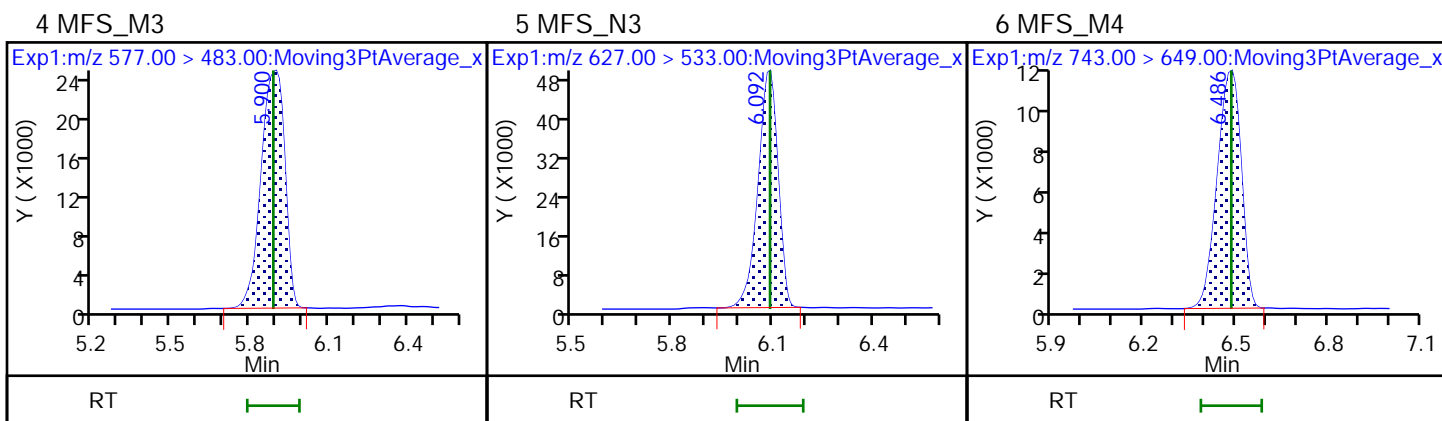
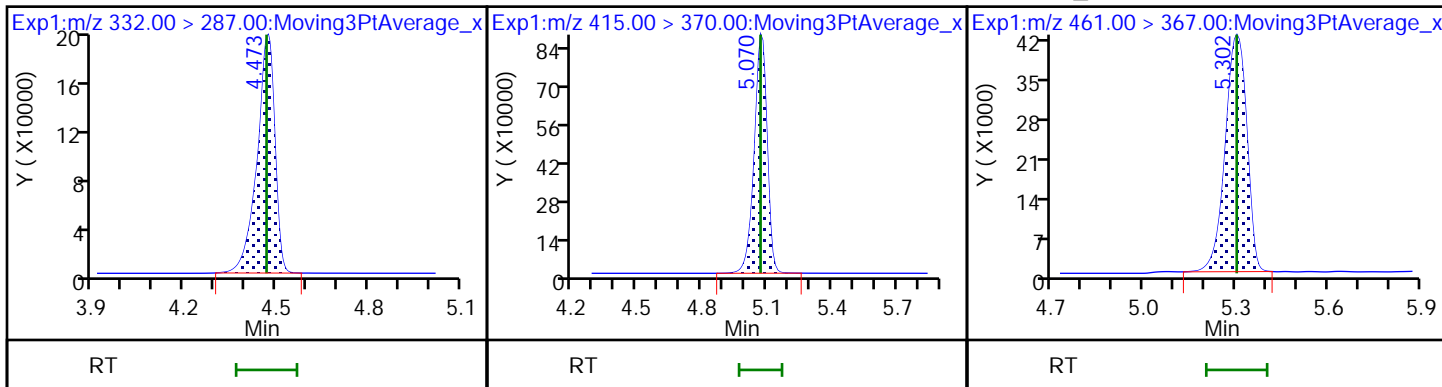
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-258462/14 Calibration Date: 05/24/2022 12:43
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.829		1.15	1.01	13.7	30.0
MFS_M3	LID1F		2.093		1.13	1.01	11.4	30.0
MFS_N3	LID1F		2.951		1.21	1.00	21.2	30.0
MFS_M4	LID1F		1.048		1.15	1.02	12.6	30.0
MFS_N4	LID1F		1.315		1.47	1.00	45.9*	30.0
MFS_N5	LID1F		1.022		1.24	1.00	23.9	30.0
13C3 HFPO-DA	Ave	0.2262	0.2014		4.45	5.00	-11.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-26.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-May-2022 12:43:08 ALS Bottle#: 4 Worklist Smp#: 14
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:42 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 14:04:42

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA

332.00 > 287.00 4.469 4.468 0.001 0.880 545763 4.45 89.0 2267

* 2 13C2 PFOA

415.00 > 370.00 5.076 5.069 0.007 2710247 5.00 4314

3 MFS_N2

461.00 > 367.00 5.303 5.301 0.002 1.187 311676 1.15 114 273

4 MFS_M3

577.00 > 483.00 5.901 5.888 0.013 1.321 230904 1.13 111 243

5 MFS_N3

627.00 > 533.00 6.093 6.091 0.002 1.364 322601 1.21 121 286

6 MFS_M4

743.00 > 649.00 6.488 6.483 0.005 1.452 116667 1.15 113 643

7 MFS_N4

793.00 > 699.00 6.611 6.616 -0.005 1.479 144179 1.47 146 737

8 MFS_N5

959.00 > 865.00 6.986 6.990 -0.004 1.563 111679 1.24 124 1078

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-26.d

Injection Date: 24-May-2022 12:43:08

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 14

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

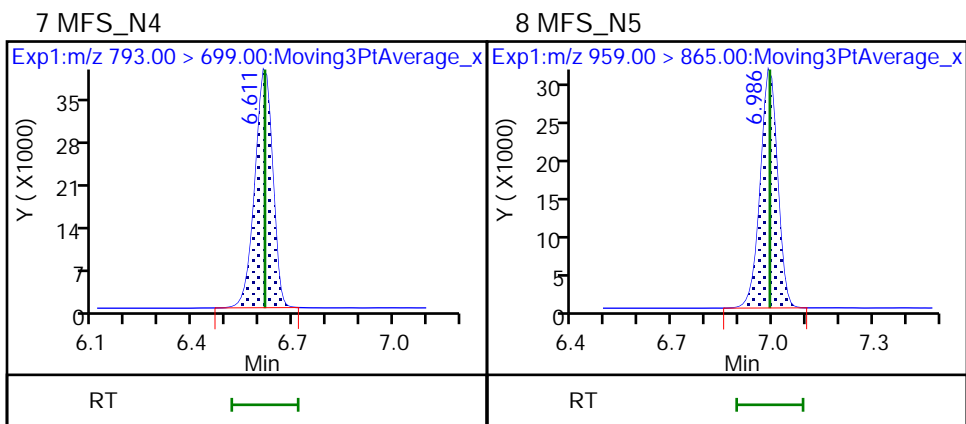
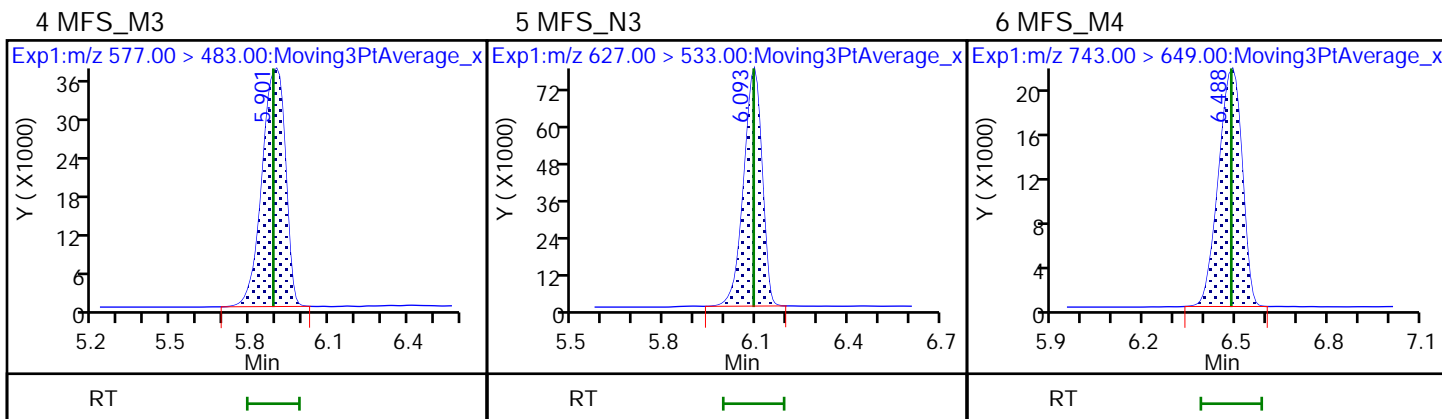
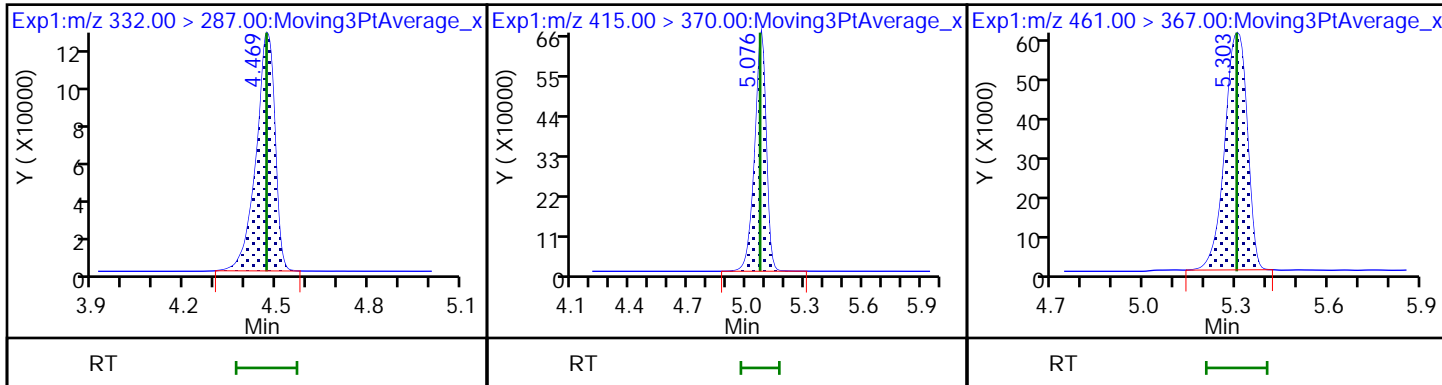
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-258462/25 Calibration Date: 05/24/2022 15:01
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-37.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.509		5.09	5.05	0.9	30.0
MFS_M3	LID1F		1.908		5.13	5.05	1.6	30.0
MFS_N3	LID1F		2.513		5.17	5.01	3.3	30.0
MFS_M4	LID1F		0.9765		5.35	5.10	4.9	30.0
MFS_N4	LID1F		1.027		5.72	5.02	13.9	30.0
MFS_N5	LID1F		0.7914		4.80	5.00	-4.1	30.0
13C3 HFPO-DA	Ave	0.2262	0.2248		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-37.d
 Lims ID: CCV 3_CAL4
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-May-2022 15:01:49 ALS Bottle#: 5 Worklist Smp#: 25
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL4
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:36 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 09:36:09

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.467	4.468	-0.001	0.881	499335	4.97	99.4	2487
* 2 13C2 PFOA	415.00 > 370.00	5.068	5.069	-0.001		2221477	5.00		3530
3 MFS_N2	461.00 > 367.00	5.297	5.301	-0.004	1.186	1264519	5.09	101	1541
4 MFS_M3	577.00 > 483.00	5.891	5.888	0.003	1.319	963060	5.13	102	850
5 MFS_N3	627.00 > 533.00	6.077	6.091	-0.014	1.361	1256906	5.17	103	1130
6 MFS_M4	743.00 > 649.00	6.480	6.483	-0.003	1.451	497177	5.35	105	2212
7 MFS_N4	793.00 > 699.00	6.605	6.616	-0.011	1.479	515020	5.72	114	2289
8 MFS_N5	959.00 > 865.00	6.980	6.990	-0.010	1.563	395521	4.80	95.9	2771

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-37.d

Injection Date: 24-May-2022 15:01:49

Instrument ID: 30733

Lims ID: CCV 3_CAL4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 25

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

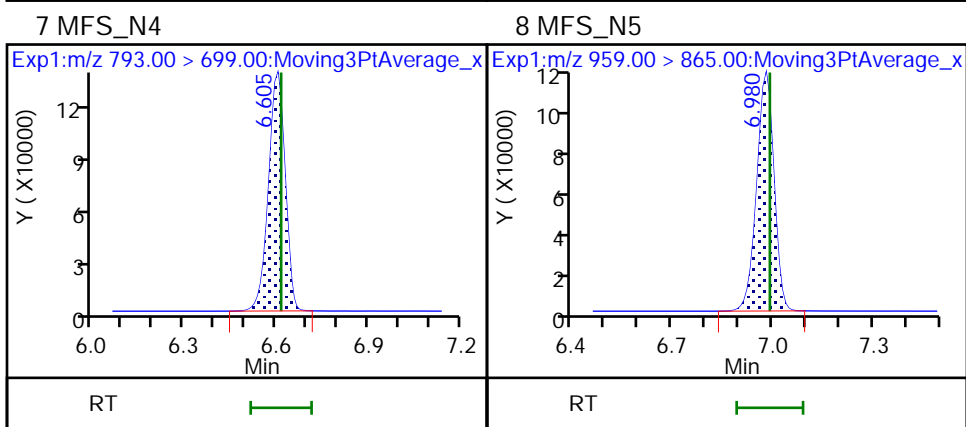
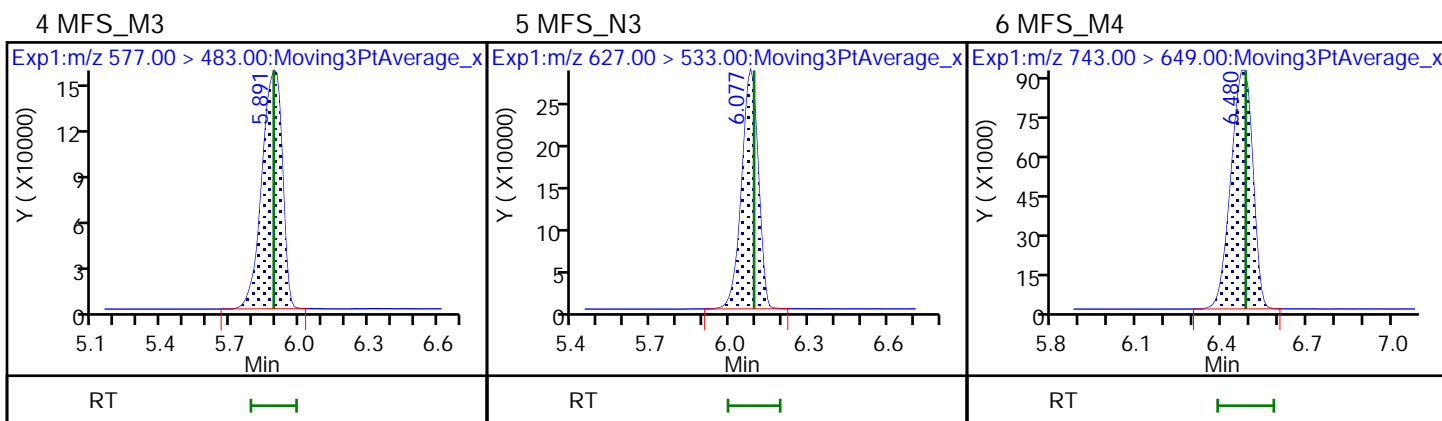
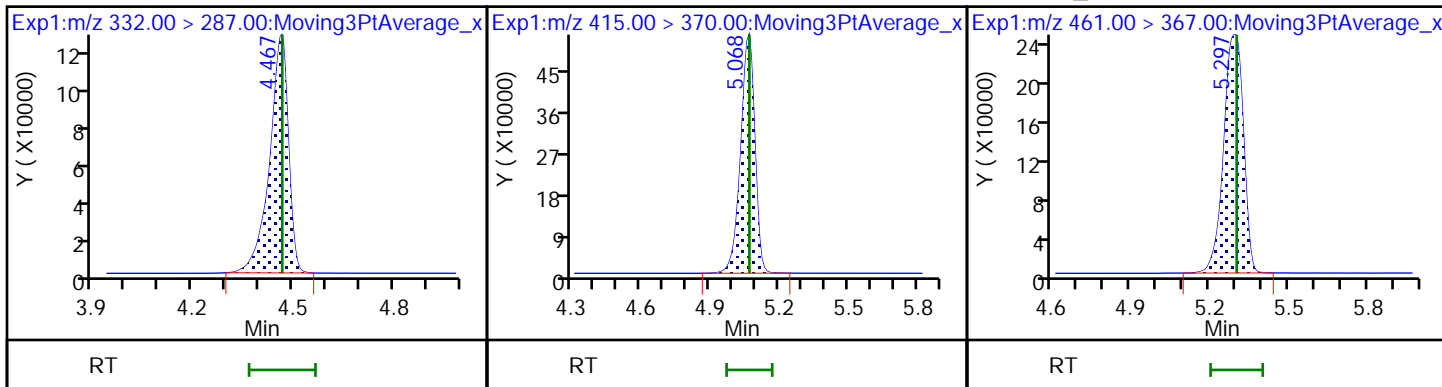
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-258462/28 Calibration Date: 05/24/2022 15:39
 Instrument ID: 30733 Calib Start Date: 05/24/2022 07:24
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/24/2022 08:41
 Lab File ID: 22MAY24MFS-40.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.941		0.597	0.505	18.2	30.0
MFS_M3	LID1F		2.164		0.582	0.505	15.2	30.0
MFS_N3	LID1F		2.953		0.608	0.501	21.3	30.0
MFS_M4	LID1F		1.013		0.555	0.510	8.8	30.0
MFS_N4	LID1F		1.035		0.577	0.502	14.8	30.0
MFS_N5	LID1F		0.9765		0.592	0.500	18.4	30.0
13C3 HFPO-DA	Ave	0.2262	0.1904		4.21	5.00	-15.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-40.d
 Lims ID: CCV 4_CAL2
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-May-2022 15:39:41 ALS Bottle#: 3 Worklist Smp#: 28
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL2
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-028
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:37 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 25-May-2022 09:36:22

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.465	4.468	-0.003	0.882	505471	4.21	84.1	2266
* 2 13C2 PFOA	415.00 > 370.00	5.061	5.069	-0.008		2655121	5.00		3730
3 MFS_N2	461.00 > 367.00	5.295	5.301	-0.006	1.186	150026	0.5965	118	227
4 MFS_M3	577.00 > 483.00	5.889	5.888	0.001	1.319	110545	0.5821	115	160
5 MFS_N3	627.00 > 533.00	6.084	6.091	-0.007	1.363	149496	0.6075	121	192
6 MFS_M4	743.00 > 649.00	6.475	6.483	-0.008	1.450	52213	0.5547	109	461
7 MFS_N4	793.00 > 699.00	6.600	6.616	-0.016	1.478	52543	0.5767	115	405
8 MFS_N5	959.00 > 865.00	6.984	6.990	-0.006	1.564	49406	0.5923	118	755

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-40.d

Injection Date: 24-May-2022 15:39:41

Instrument ID: 30733

Lims ID: CCV 4_CAL2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 28

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

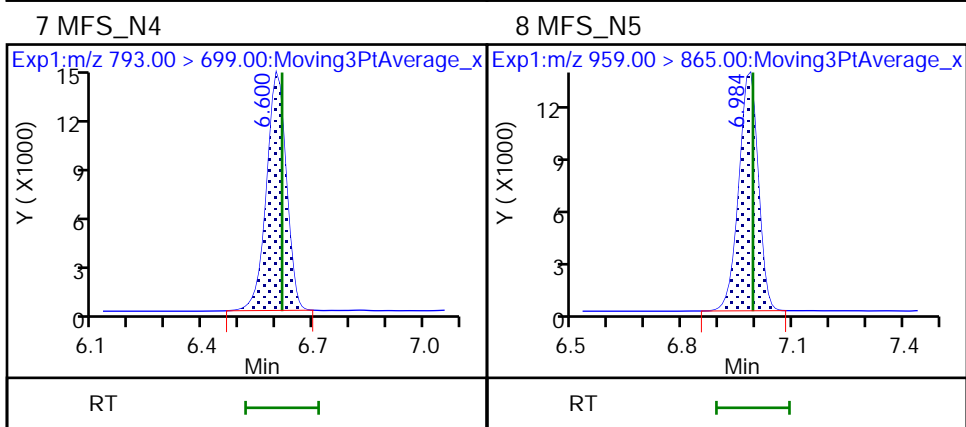
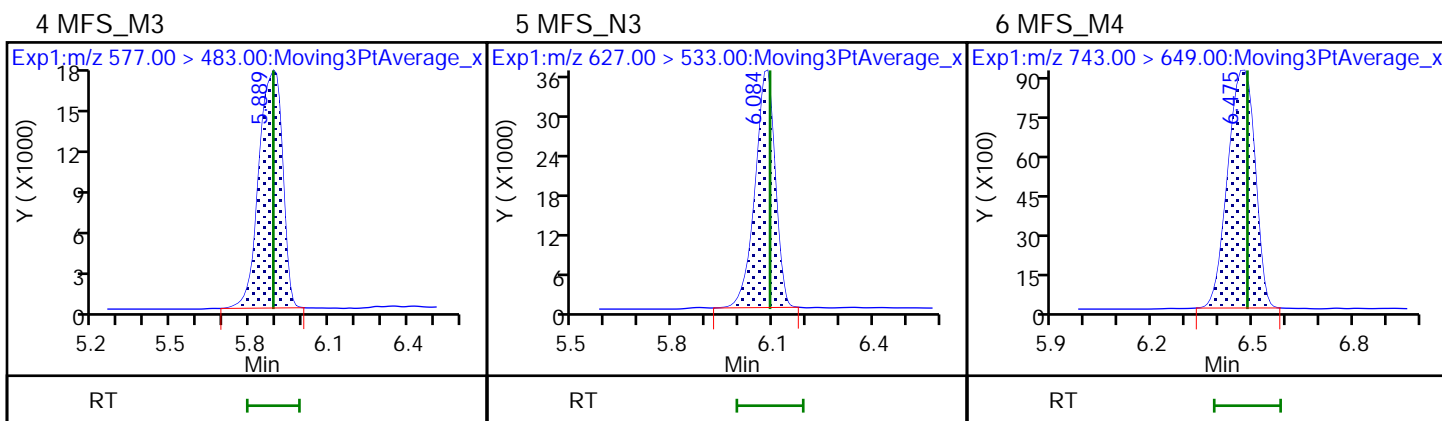
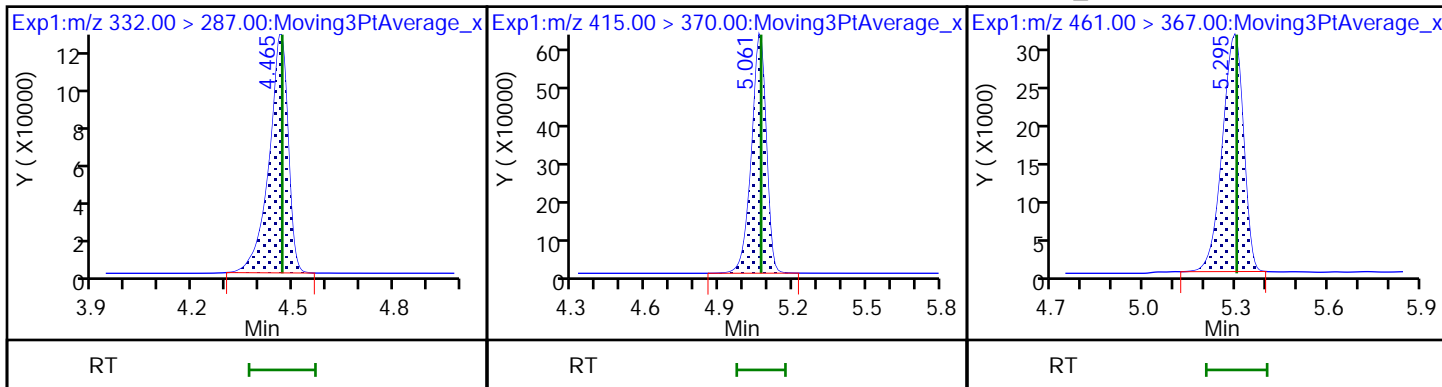
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: ICV 410-260443/9 Calibration Date: 05/31/2022 16:55
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22MAY31MFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.879		1.09	1.01	7.7	30.0
MFS_M3	LID1F		2.169		1.04	1.01	2.9	30.0
MFS_N3	LID1F		2.926		1.06	1.00	5.4	30.0
MFS_M4	LID1F		1.134		1.02	1.02	0.4	30.0
MFS_N4	Q2IDF		1.245		1.00	1.00	-0.2	30.0
MFS_N5	Q2IDF		1.049		0.955	1.00	-4.6	30.0
13C3 HFPO-DA	Ave	0.1978	0.1925		4.87	5.00	-2.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-09.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 31-May-2022 16:55:53 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:49 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:44

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.475	4.473	0.002	0.882	934126	4.87	97.3	1931
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		4852670	5.00		3132
3 MFS_N2	461.00 > 367.00	5.310	5.301	0.009	1.187	542799	1.09		854
4 MFS_M3	577.00 > 483.00	5.900	5.886	0.014	1.318	409573	1.04		294
5 MFS_N3	627.00 > 533.00	6.092	6.088	0.004	1.361	547482	1.06		683
6 MFS_M4	743.00 > 649.00	6.485	6.471	0.014	1.449	215958	1.02		777
7 MFS_N4	793.00 > 699.00	6.618	6.605	0.013	1.479	233672	1.00		703
8 MFS_N5	959.00 > 865.00	6.993	6.979	0.014	1.563	196246	0.9551		1147

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-09.d

Injection Date: 31-May-2022 16:55:53

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

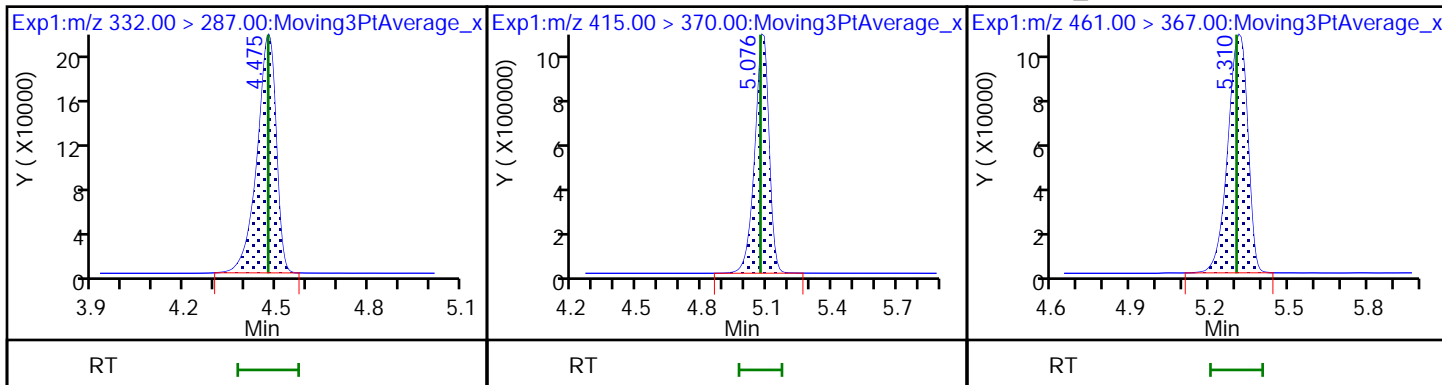
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

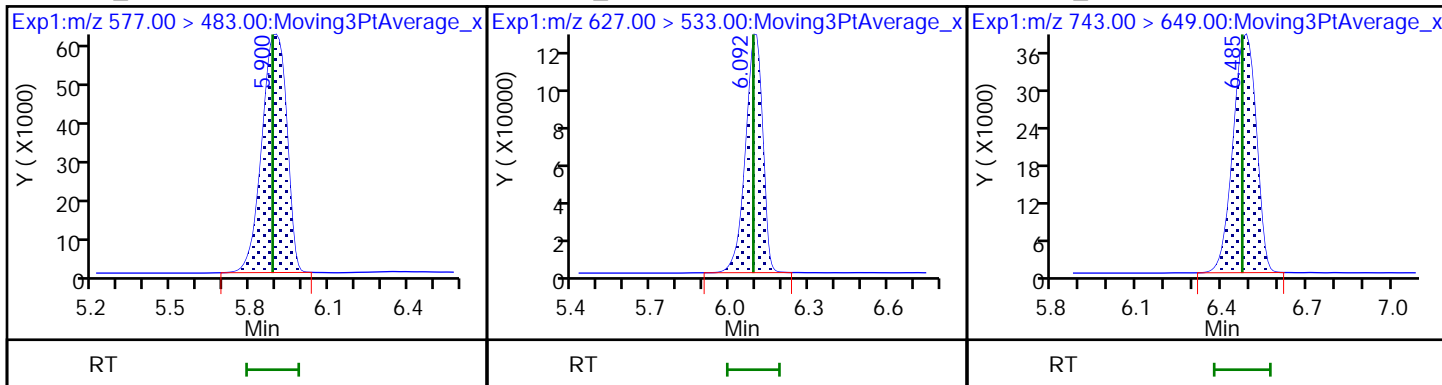
3 MFS_N2



4 MFS_M3

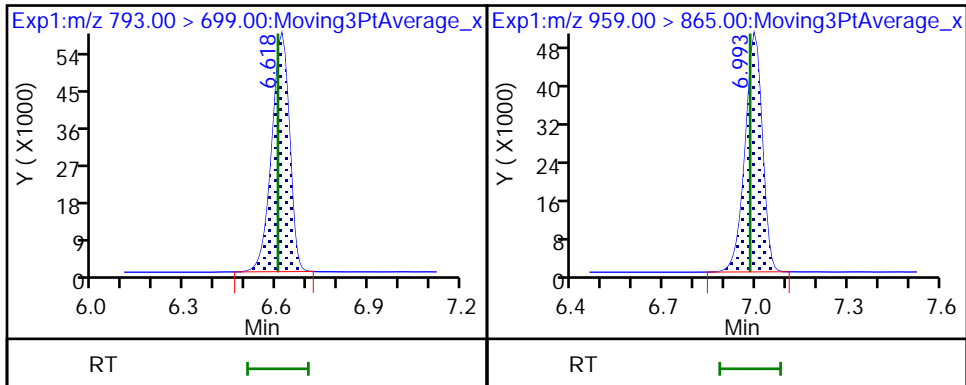
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260445/1 Calibration Date: 05/31/2022 17:33
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22MAY31MFS-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.832		0.535	0.505	6.0	30.0
MFS_M3	LID1F		2.178		0.522	0.505	3.3	30.0
MFS_N3	LID1F		2.882		0.520	0.501	3.8	30.0
MFS_M4	LID1F		1.148		0.518	0.510	1.7	30.0
MFS_N4	Q2IDF		1.324		0.532	0.502	5.9	30.0
MFS_N5	Q2IDF		1.175		0.534	0.500	6.8	30.0
13C3 HFPO-DA	Ave	0.1978	0.2023		5.11	5.00	2.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-12.d
 Lims ID: CCV 1_CAL2
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-May-2022 17:33:42 ALS Bottle#: 3 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 1_CAL2
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:37:13

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.478	4.473	0.005	0.882	1654939	5.11	102	2442
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		8181829	5.00		3688
3 MFS_N2	461.00 > 367.00	5.309	5.301	0.008	1.186	472950	0.5348	106	990
4 MFS_M3	577.00 > 483.00	5.899	5.886	0.013	1.318	364347	0.5222	103	261
5 MFS_N3	627.00 > 533.00	6.100	6.088	0.012	1.362	477596	0.5196	104	644
6 MFS_M4	743.00 > 649.00	6.486	6.471	0.015	1.449	193784	0.5183	102	822
7 MFS_N4	793.00 > 699.00	6.619	6.605	0.014	1.478	220149	0.5320	106	703
8 MFS_N5	959.00 > 865.00	6.993	6.979	0.014	1.562	194636	0.5344	107	1291

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-12.d

Injection Date: 31-May-2022 17:33:42

Instrument ID: 30733

Lims ID: CCV 1_CAL2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

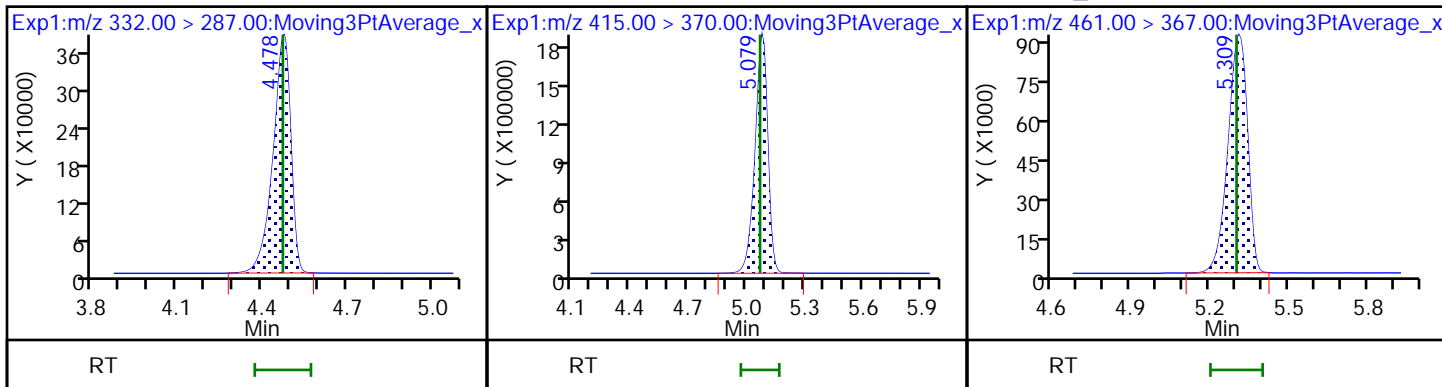
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

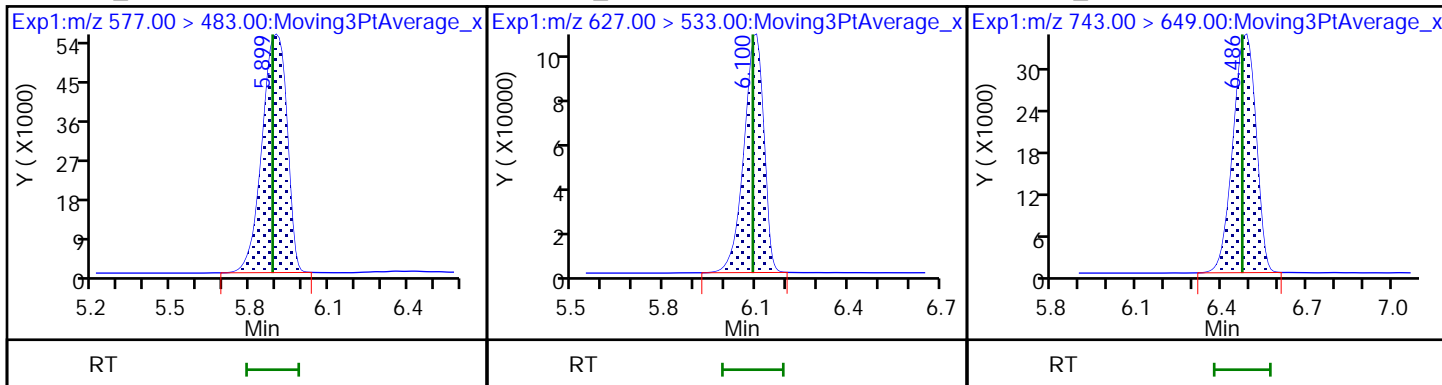
3 MFS_N2



4 MFS_M3

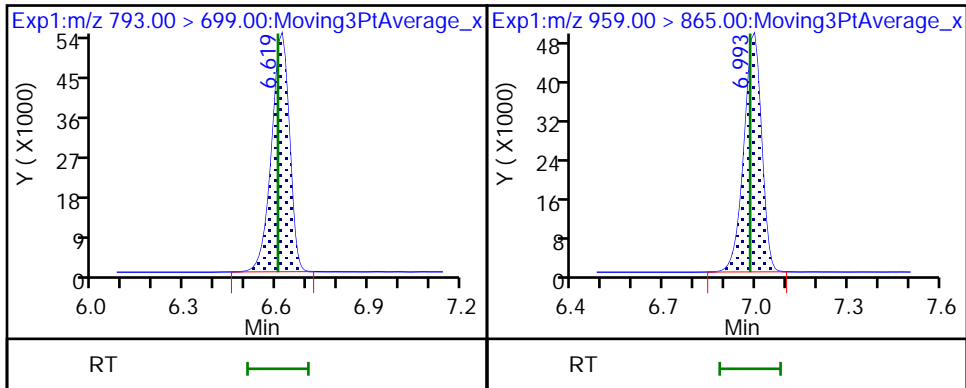
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260445/11 Calibration Date: 05/31/2022 19:39
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22MAY31MFS-22.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.845		1.07	1.01	6.5	30.0
MFS_M3	LID1F		2.114		1.01	1.01	0.3	30.0
MFS_N3	LID1F		2.843		1.03	1.00	2.4	30.0
MFS_M4	LID1F		1.151		1.04	1.02	1.8	30.0
MFS_N4	Q2IDF		1.329		1.07	1.00	6.6	30.0
MFS_N5	Q2IDF		1.140		1.04	1.00	3.7	30.0
13C3 HFPO-DA	Ave	0.1978	0.1922		4.86	5.00	-2.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-22.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-May-2022 19:39:57 ALS Bottle#: 4 Worklist Smp#: 11
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:45:03 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:45:03

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.472	4.473	-0.001	0.881	1177553	4.86	97.2	2247
* 2 13C2 PFOA	415.00 > 370.00	5.077	5.069	0.008		6127094	5.00		3333
3 MFS_N2	461.00 > 367.00	5.307	5.301	0.006	1.187	676167	1.07	106	1250
4 MFS_M3	577.00 > 483.00	5.885	5.886	-0.001	1.316	503310	1.01	100	354
5 MFS_N3	627.00 > 533.00	6.088	6.088	0.0	1.361	670583	1.03	102	901
6 MFS_M4	743.00 > 649.00	6.482	6.471	0.011	1.450	276295	1.04	102	1048
7 MFS_N4	793.00 > 699.00	6.614	6.605	0.009	1.479	314443	1.07	107	1075
8 MFS_N5	959.00 > 865.00	6.989	6.979	0.010	1.563	268737	1.04	104	1634

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-22.d

Injection Date: 31-May-2022 19:39:57

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 11

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

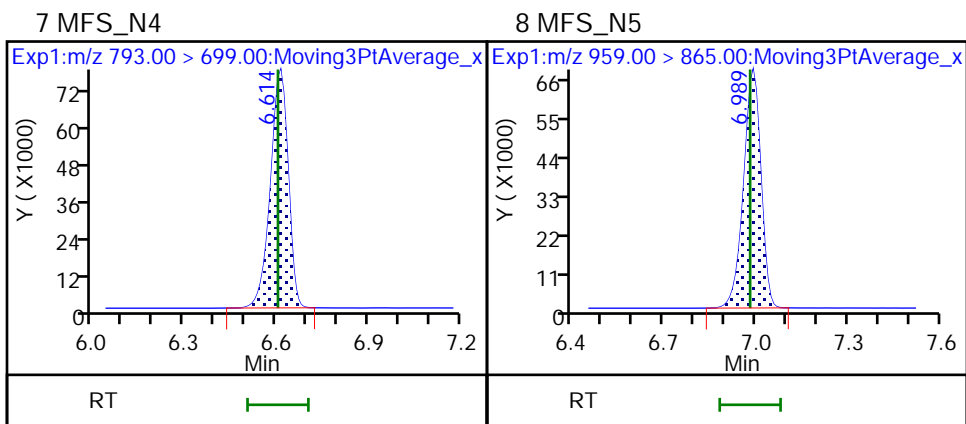
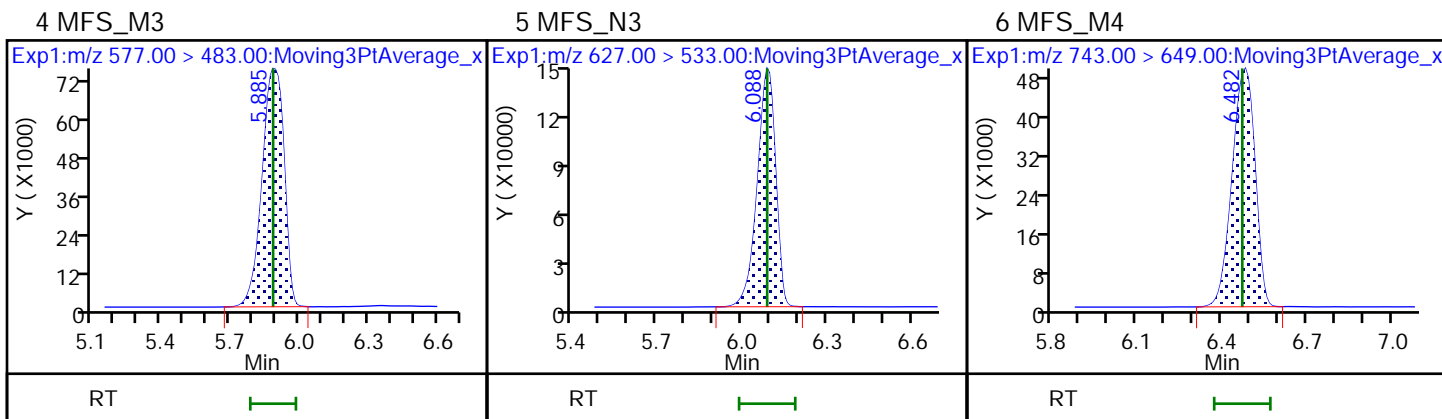
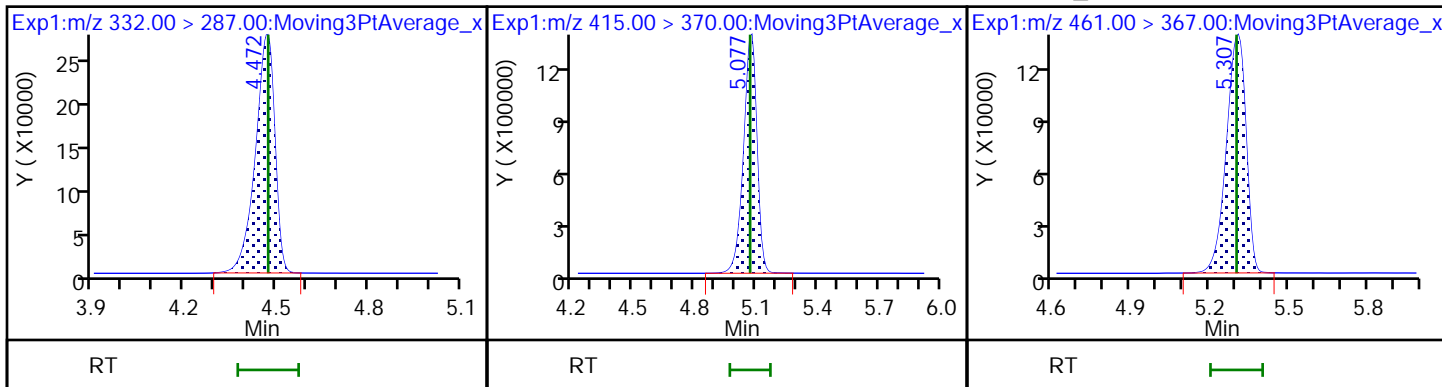
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260445/20 Calibration Date: 05/31/2022 21:33
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22MAY31MFS-31.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.988		5.64	5.05	11.8	30.0
MFS_M3	LID1F		2.292		5.50	5.05	8.7	30.0
MFS_N3	LID1F		3.034		5.47	5.01	9.3	30.0
MFS_M4	LID1F		1.239		5.59	5.10	9.7	30.0
MFS_N4	Q2IDF		1.329		5.45	5.02	8.5	30.0
MFS_N5	Q2IDF		1.263		5.78	5.00	15.6	30.0
13C3 HFPO-DA	Ave	0.1978	0.1938		4.90	5.00	-2.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-31.d
 Lims ID: CCV 3_CAL4
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-May-2022 21:33:32 ALS Bottle#: 5 Worklist Smp#: 20
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL4
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:44 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:37:23

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.461	4.473	-0.012	0.881	1093413	4.90	98.0	2047
* 2 13C2 PFOA	415.00 > 370.00	5.066	5.069	-0.003		5643030	5.00		2571
3 MFS_N2	461.00 > 367.00	5.288	5.301	-0.013	1.185	3297337	5.64	112	3404
4 MFS_M3	577.00 > 483.00	5.879	5.886	-0.007	1.318	2533211	5.50	109	1160
5 MFS_N3	627.00 > 533.00	6.075	6.088	-0.013	1.362	3322403	5.47	109	2403
6 MFS_M4	743.00 > 649.00	6.463	6.471	-0.008	1.449	1381902	5.59	110	2390
7 MFS_N4	793.00 > 699.00	6.599	6.605	-0.006	1.479	1459671	5.45	108	2546
8 MFS_N5	959.00 > 865.00	6.984	6.979	0.005	1.565	1382669	5.78	116	4014

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-31.d

Injection Date: 31-May-2022 21:33:32

Instrument ID: 30733

Lims ID: CCV_3_CAL4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 20

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

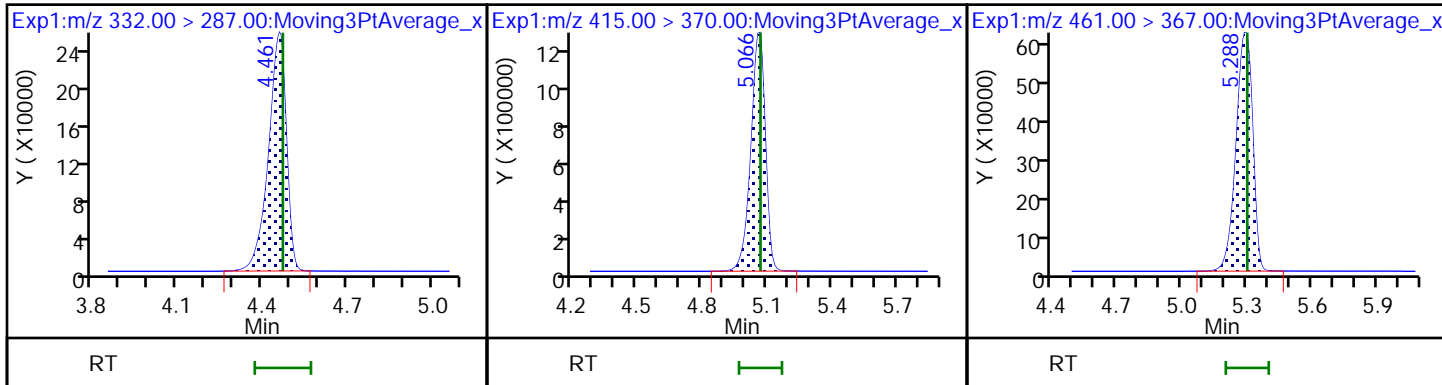
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

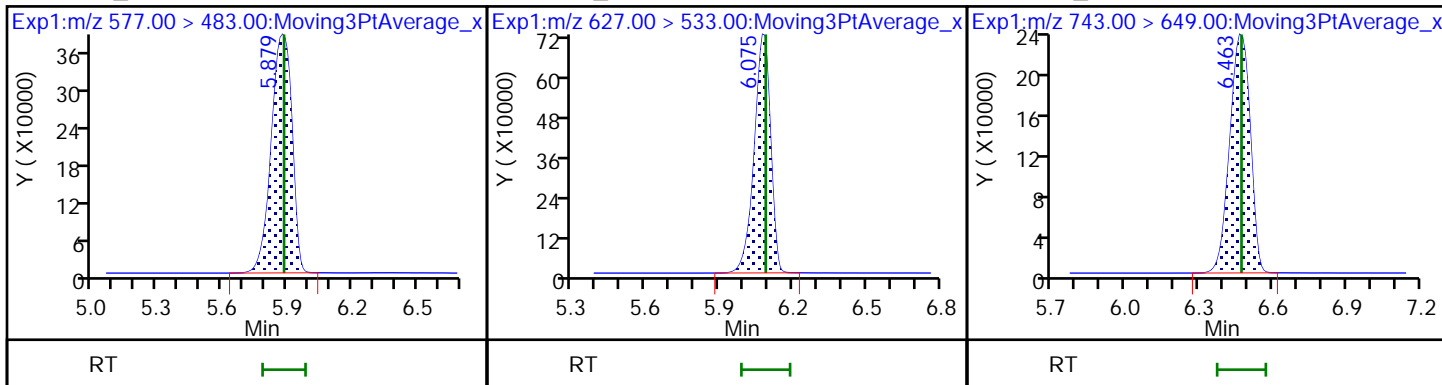
3 MFS_N2



4 MFS_M3

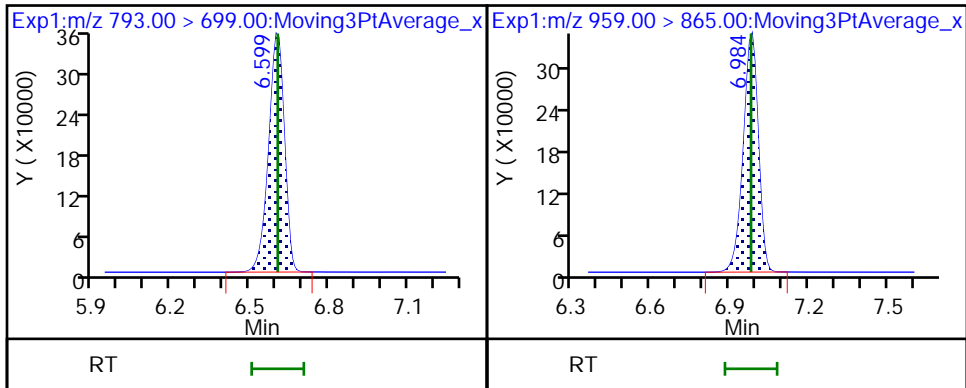
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260769/1 Calibration Date: 06/01/2022 09:52
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22JUN01MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.577		0.487	0.505	-3.5	30.0
MFS_M3	LID1F		1.944		0.466	0.505	-7.8	30.0
MFS_N3	LID1F		2.599		0.469	0.501	-6.4	30.0
MFS_M4	LID1F		0.9891		0.446	0.510	-12.4	30.0
MFS_N4	Q2IDF		1.116		0.448	0.502	-10.8	30.0
MFS_N5	Q2IDF		0.9663		0.439	0.500	-12.2	30.0
13C3 HFPO-DA	Ave	0.1978	0.2249		5.69	5.00	13.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-01.d
 Lims ID: CCV 1_CAL2
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 09:52:08 ALS Bottle#: 3 Worklist Smp#: 1
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 1_CAL2
 Misc. Info.: Plate: 10 Rack: 1 410-0058483-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 13:04:21 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:02:51

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.481	4.472	0.009	0.883	1465051	5.69	114	2961
* 2 13C2 PFOA	415.00 > 370.00	5.077	5.075	0.002		6513272	5.00		3140
3 MFS_N2	461.00 > 367.00	5.311	5.308	0.003	1.185	381071	0.4867	96.5	1346
4 MFS_M3	577.00 > 483.00	5.890	5.892	-0.002	1.315	287874	0.4661	92.2	269
5 MFS_N3	627.00 > 533.00	6.092	6.090	0.002	1.360	381399	0.4687	93.6	937
6 MFS_M4	743.00 > 649.00	6.475	6.479	-0.004	1.445	147760	0.4464	87.6	1047
7 MFS_N4	793.00 > 699.00	6.618	6.613	0.005	1.477	164182	0.4481	89.2	800
8 MFS_N5	959.00 > 865.00	6.993	6.988	0.005	1.561	141701	0.4394	87.8	1007

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-01.d

Injection Date: 01-Jun-2022 09:52:08

Instrument ID: 30733

Lims ID: CCV 1_CAL2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 1

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

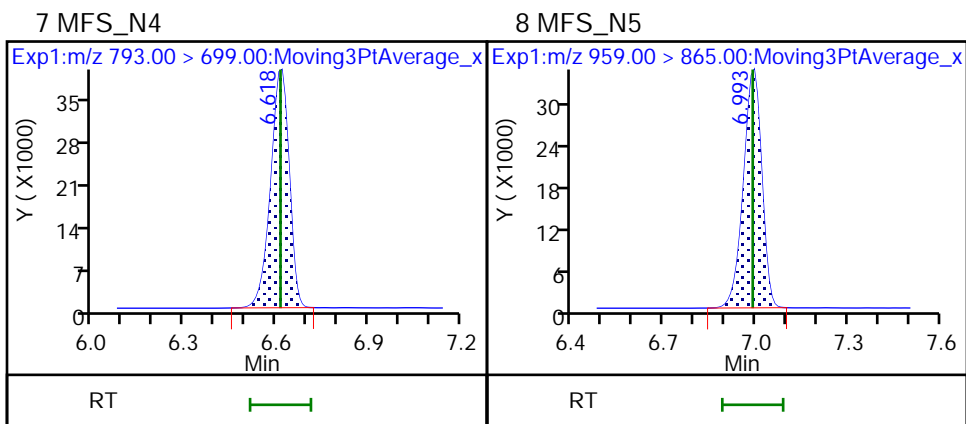
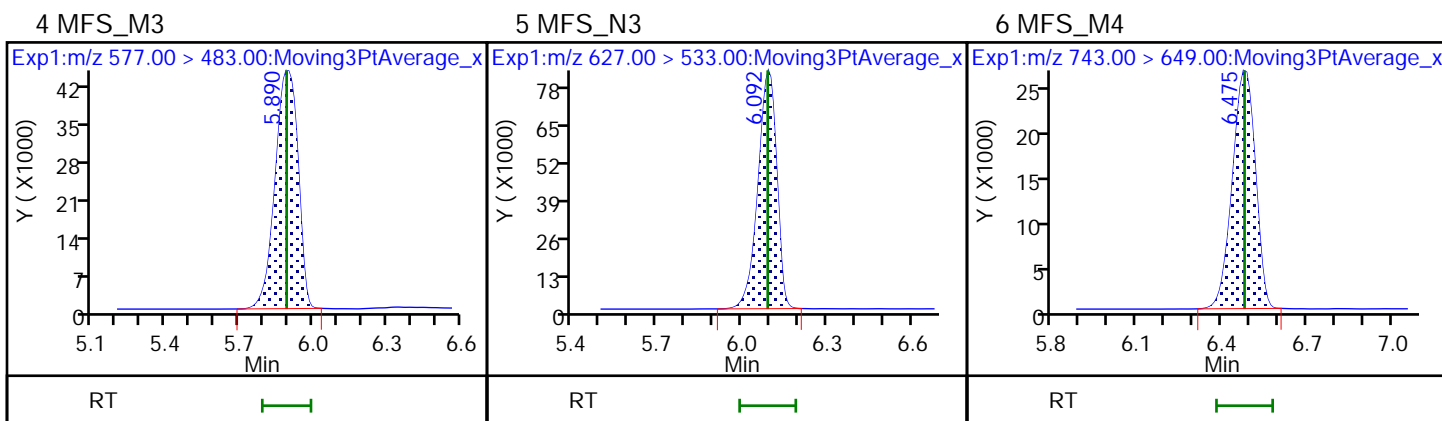
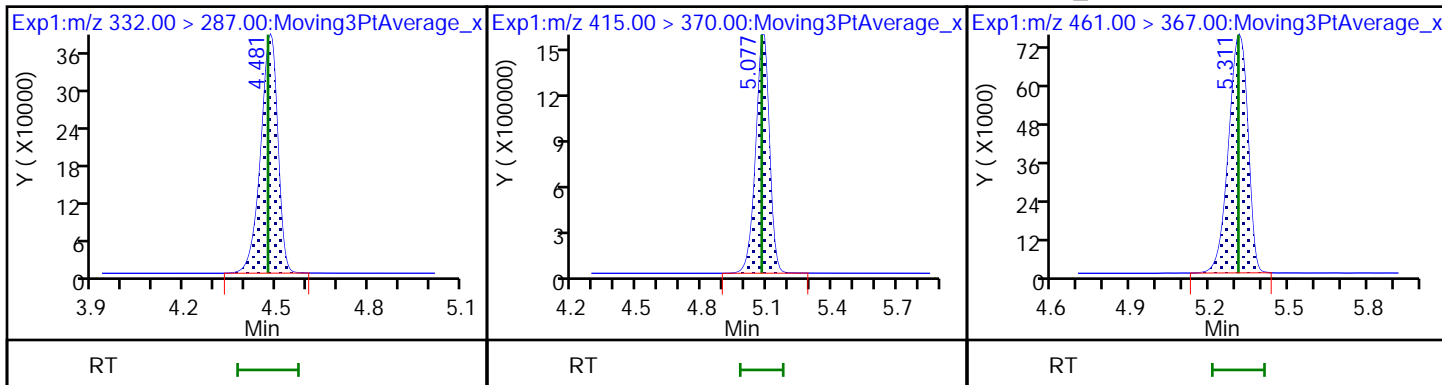
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1
 SDG No.: _____
 Lab Sample ID: CCV 410-260769/7 Calibration Date: 06/01/2022 11:09
 Instrument ID: 30733 Calib Start Date: 05/31/2022 15:13
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 05/31/2022 16:30
 Lab File ID: 22JUN01MFS-07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	LID1F		2.697		1.02	1.01	0.9	30.0
MFS_M3	LID1F		1.990		0.954	1.01	-5.6	30.0
MFS_N3	LID1F		2.660		0.959	1.00	-4.2	30.0
MFS_M4	LID1F		1.030		0.930	1.02	-8.8	30.0
MFS_N4	Q2IDF		1.173		0.944	1.00	-6.0	30.0
MFS_N5	Q2IDF		1.016		0.924	1.00	-7.7	30.0
13C3 HFPO-DA	Ave	0.1978	0.2059		5.21	5.00	4.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-07.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2022 11:09:18 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0058483-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 13:04:20 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 13:02:57

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.473	4.472	0.001	0.881	1060889	5.21	104	2532
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.075	0.003		5151301	5.00		2952
3 MFS_N2	461.00 > 367.00	5.307	5.308	-0.001	1.186	577508	1.02	101	1121
4 MFS_M3	577.00 > 483.00	5.885	5.892	-0.007	1.316	426822	0.9543	94.4	338
5 MFS_N3	627.00 > 533.00	6.087	6.090	-0.003	1.361	565194	0.9593	95.8	946
6 MFS_M4	743.00 > 649.00	6.481	6.479	0.002	1.449	222865	0.9298	91.2	1015
7 MFS_N4	793.00 > 699.00	6.613	6.613	0.0	1.478	249997	0.9441	94.0	1014
8 MFS_N5	959.00 > 865.00	6.986	6.988	-0.002	1.562	215679	0.9242	92.3	1474

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00007 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220601-58483.b\22JUN01MFS-07.d

Injection Date: 01-Jun-2022 11:09:18

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

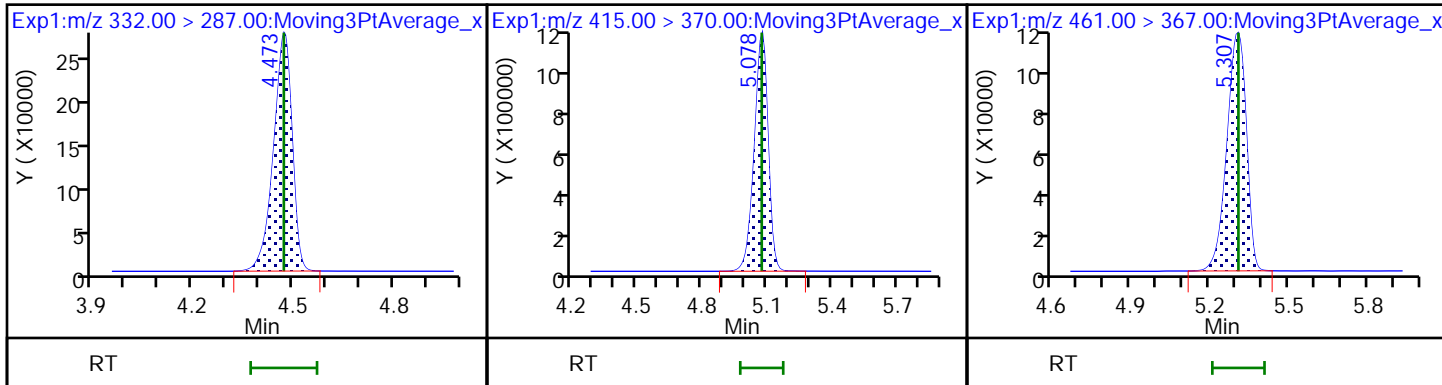
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

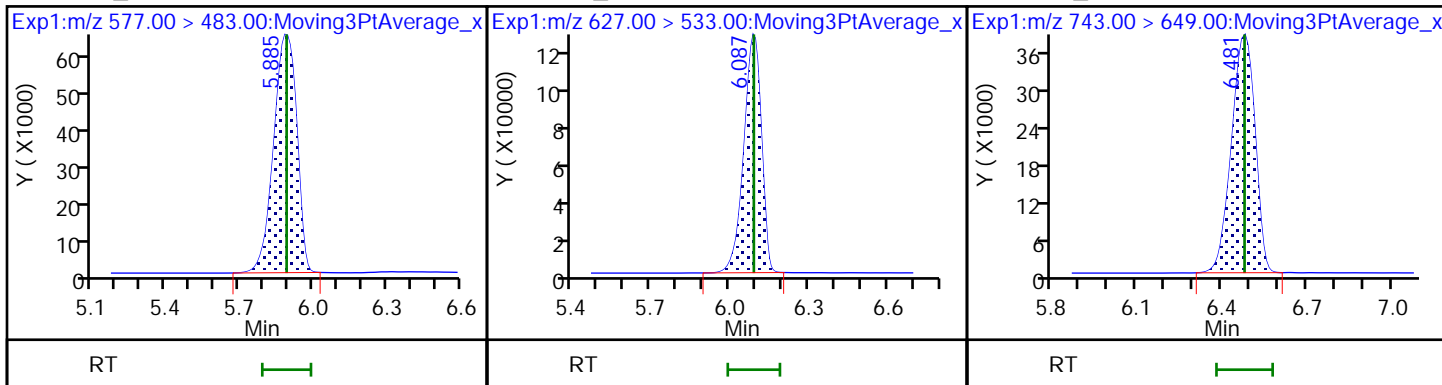
3 MFS_N2



4 MFS_M3

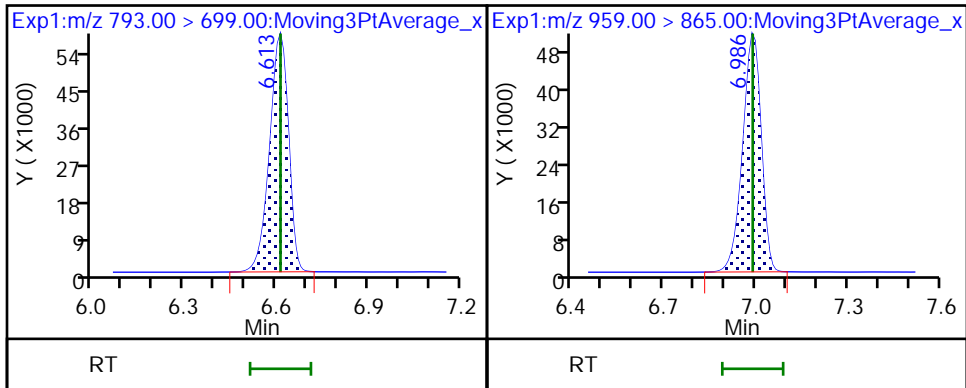
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-256033/1-A

Matrix: Water Lab File ID: 22MAY24MFS-14.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 250 (mL) Date Analyzed: 05/24/2022 10:10

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258462 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-14.d
 Lims ID: MB 410-256033/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 24-May-2022 10:10:41 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-256033/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0057950-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-May-2022 09:40:46 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1680

First Level Reviewer: kruelleh Date: 24-May-2022 12:54:15
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.474	4.468	0.006	0.881	592680	4.24	84.8	3622
* 2 13C2 PFOA	415.00 > 370.00	5.076	5.069	0.007		3090779	5.00		4705

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00331 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57950.b\22MAY24MFS-14.d

Injection Date: 24-May-2022 10:10:41

Instrument ID: 30733

Lims ID: MB 410-256033/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

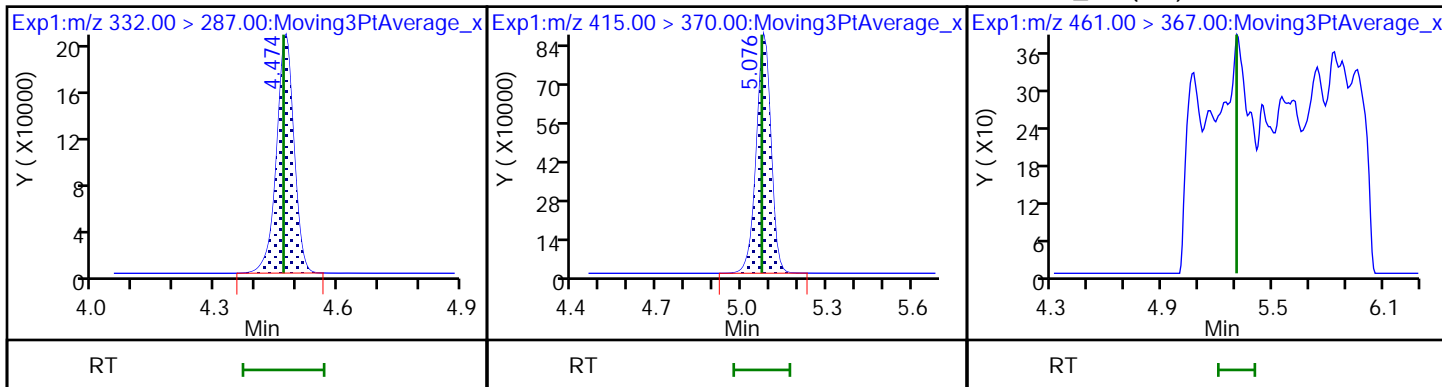
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

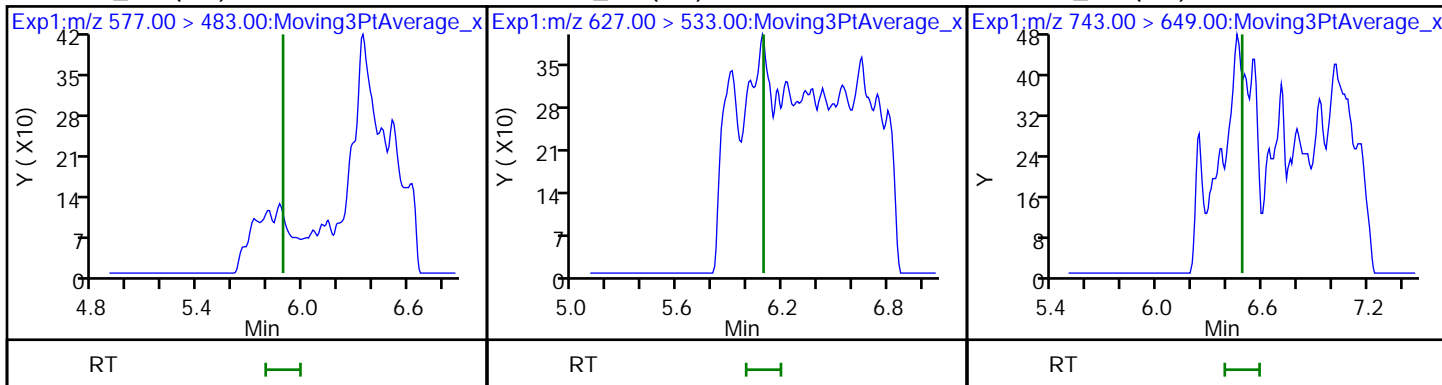
3 MFS_N2 (ND)



4 MFS_M3 (ND)

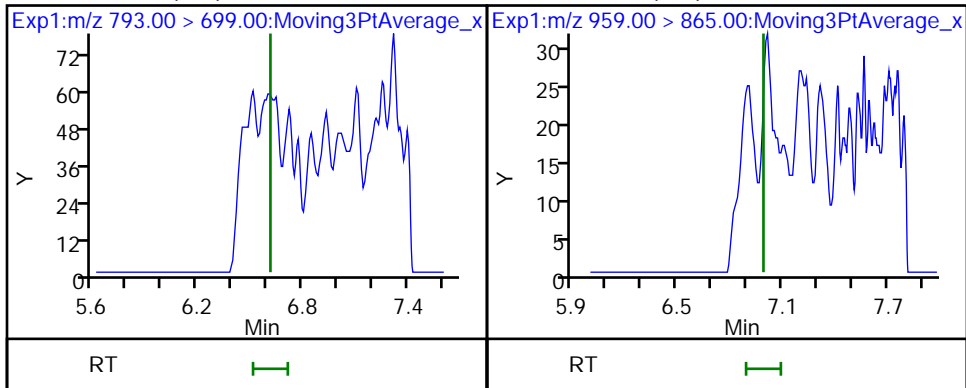
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-259821/1-A

Matrix: Water Lab File ID: 22MAY31MFS-23.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 250 (mL) Date Analyzed: 05/31/2022 19:52

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-23.d
 Lims ID: MB 410-259821/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 31-May-2022 19:52:37 ALS Bottle#: 19 Worklist Smp#: 12
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-259821/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruehleh Date: 01-Jun-2022 06:43:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.477 4.473 0.004 0.881 801342 5.41 108 3217
 * 2 13C2 PFOA
 415.00 > 370.00 5.079 5.069 0.010 3741410 5.00 3383

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-23.d

Injection Date: 31-May-2022 19:52:37

Instrument ID: 30733

Lims ID: MB 410-259821/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 19

Worklist Smp#: 12

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

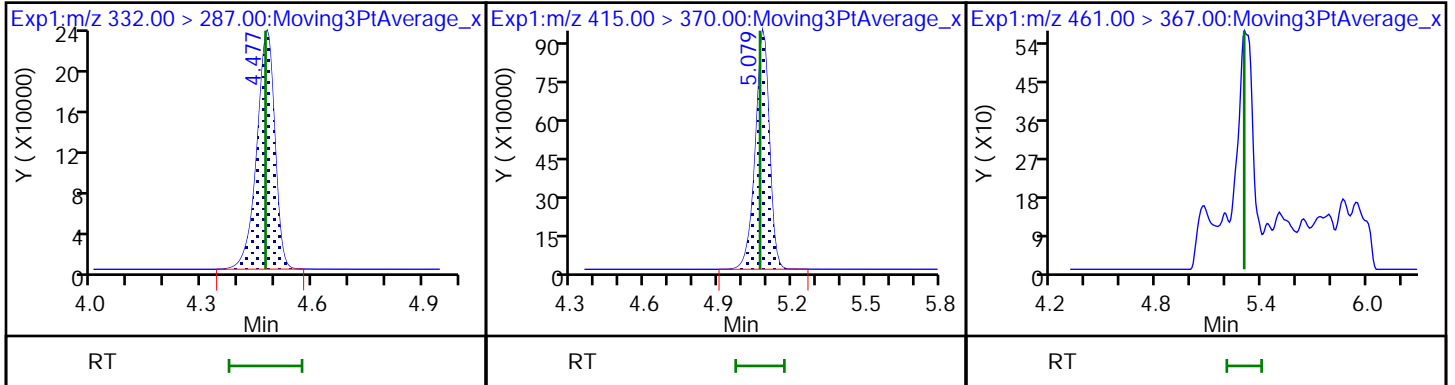
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

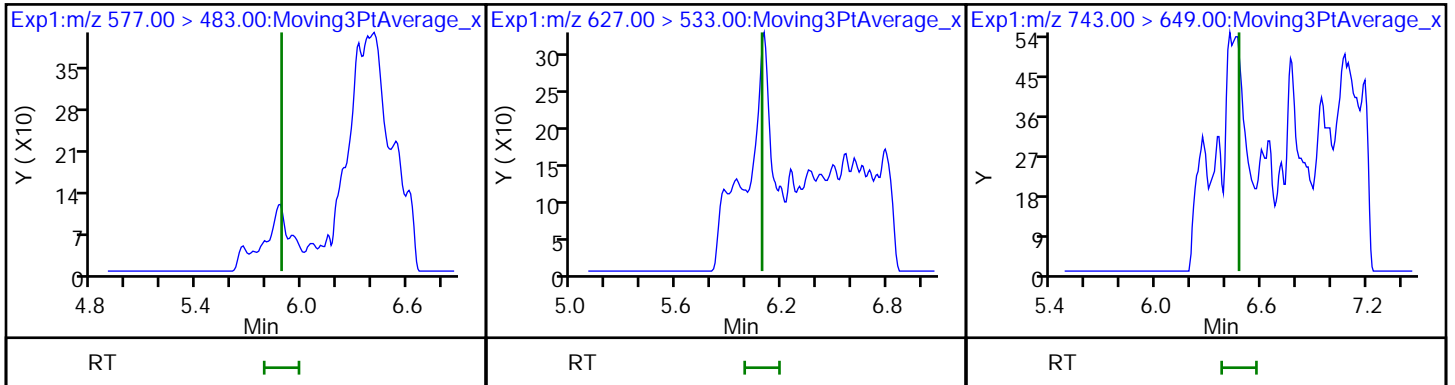
3 MFS_N2 (ND)



4 MFS_M3 (ND)

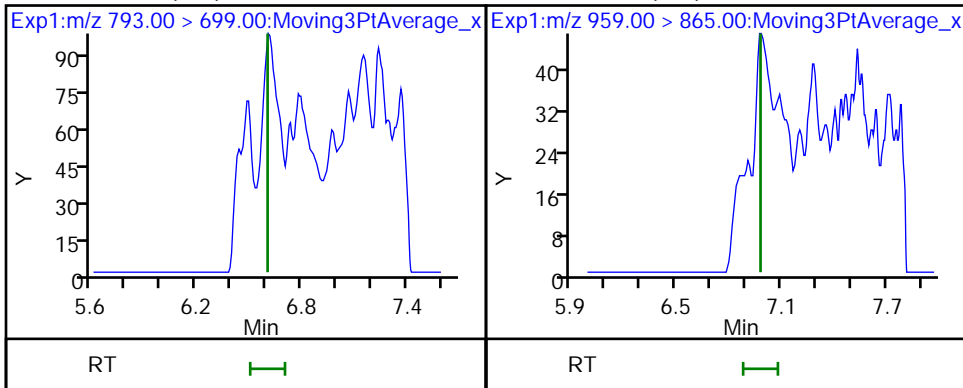
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-258360/8

Matrix: Water Lab File ID: 22MAY24MFS-08.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 05/24/2022 08:53

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 258360 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-08.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 24-May-2022 08:53:48 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 10 Rack: 1 410-0057926-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 24-May-2022 14:01:48 Calib Date: 24-May-2022 08:41:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1601

First Level Reviewer: kruelleh Date: 24-May-2022 09:36:17
 Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.469	4.475	-0.006	0.882	678388	5.14	103	2325
* 2 13C2 PFOA	415.00 > 370.00	5.066	5.076	-0.010		2919153	5.00		3471

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00009 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00325 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220524-57926.b\22MAY24MFS-08.d

Injection Date: 24-May-2022 08:53:48

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

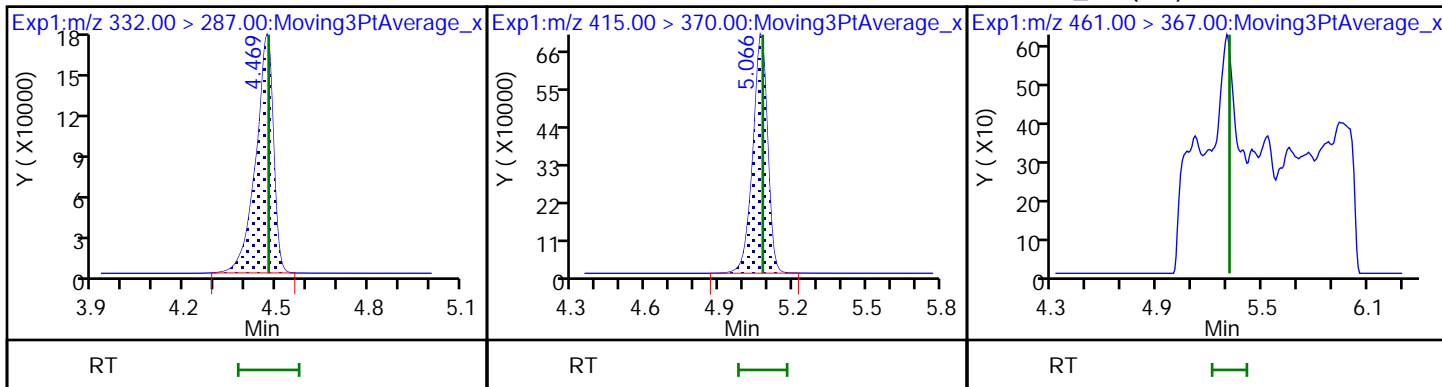
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

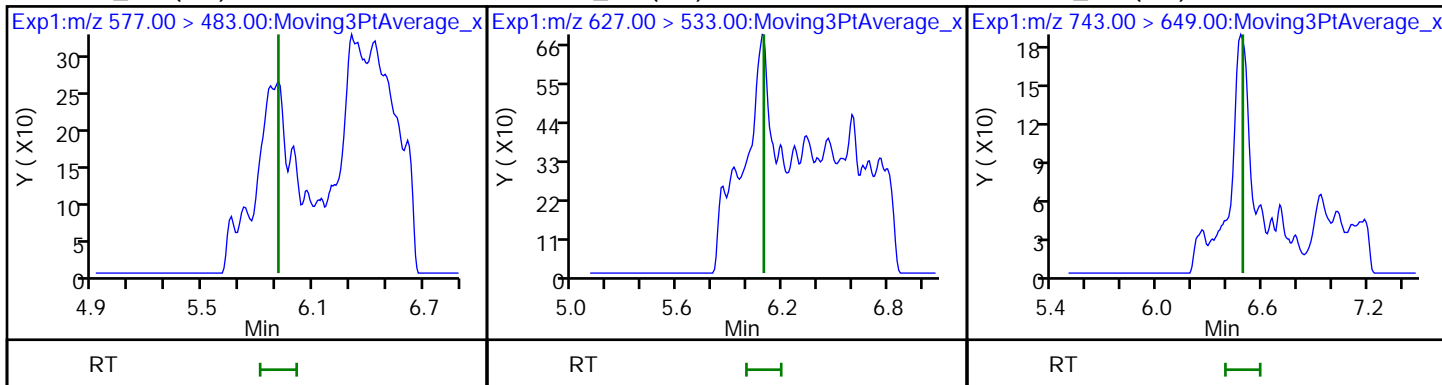
3 MFS_N2 (ND)



4 MFS_M3 (ND)

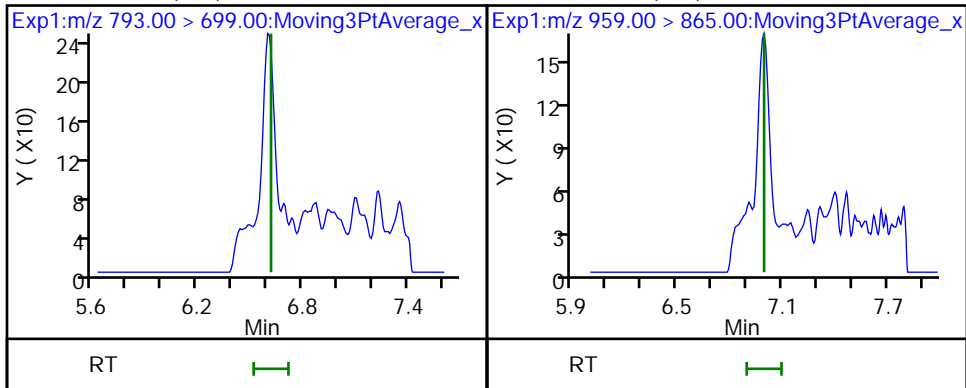
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-260443/8

Matrix: Water Lab File ID: 22MAY31MFS-08.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 05/31/2022 16:43

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260443 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-08.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 31-May-2022 16:43:15 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 10 Rack: 1 410-0058409-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:36:31 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:34:39
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.466	4.473	-0.007	0.881	908898	4.73	94.6	1713
* 2 13C2 PFOA	415.00 > 370.00	5.067	5.069	-0.002		4856868	5.00		3551

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00009 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00325 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-08.d

Injection Date: 31-May-2022 16:43:15

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

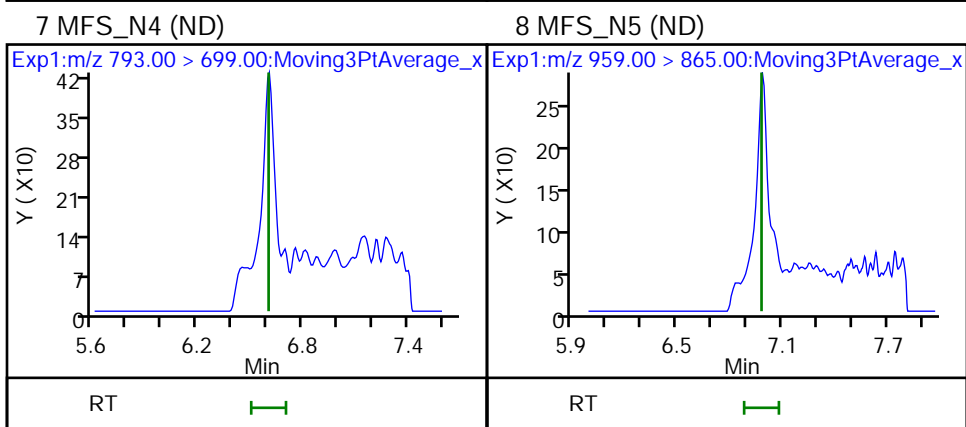
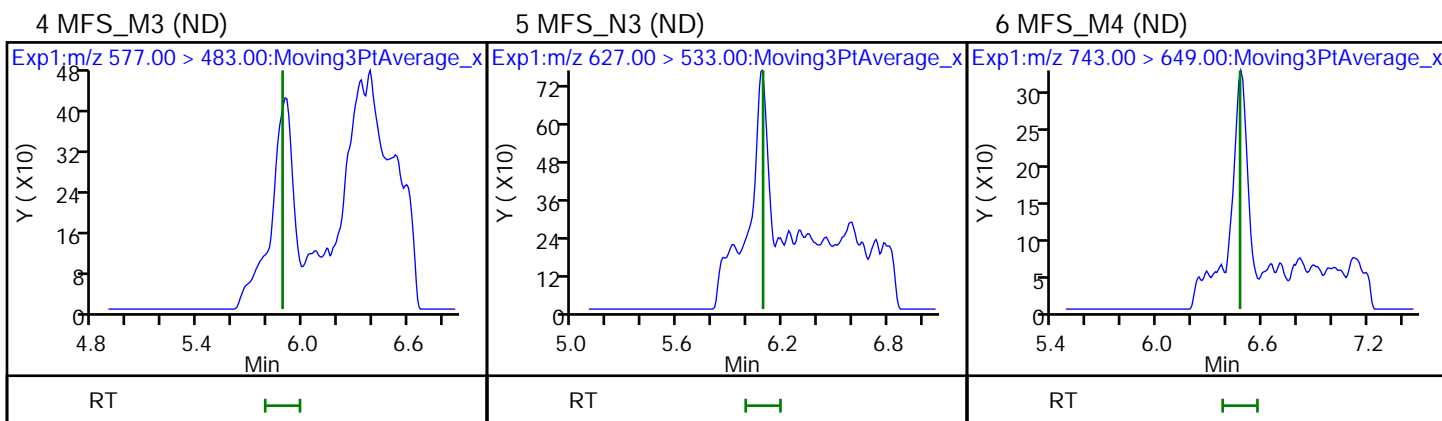
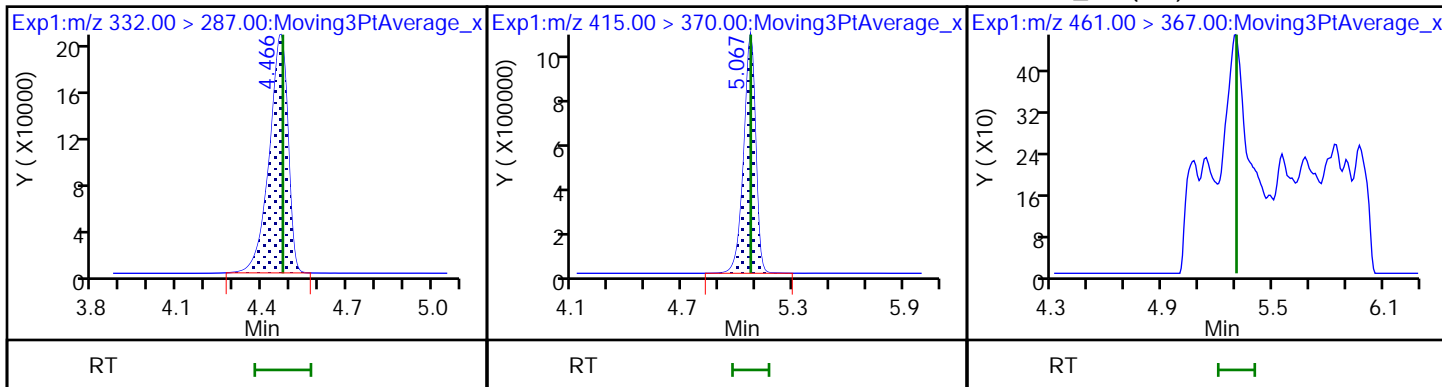
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-256033/2-A

Matrix: Water Lab File ID: 22MAY31MFS-13.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 250 (mL) Date Analyzed: 05/31/2022 17:46

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	45.5		1.0	0.20
STL02874	MFS_M3	44.8		1.0	0.20
STL02875	MFS_N3	44.2		1.0	0.20
STL02876	MFS_M4	43.4		1.0	0.50
STL02877	MFS_N4	43.2		2.0	1.0
STL02888	MFS_N5	44.6		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-13.d
 Lims ID: LCS 410-256033/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-May-2022 17:46:19 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-256033/2-A RA
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:37:34
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.481	4.473	0.008	0.881	755084	3.71	74.2	2879
* 2 13C2 PFOA	415.00 > 370.00	5.087	5.069	0.018		5143384	5.00		3511
3 MFS_N2	461.00 > 367.00	5.322	5.301	0.021	1.188	4585872	11.4	113	8294
4 MFS_M3	577.00 > 483.00	5.896	5.886	0.010	1.316	3567149	11.2	111	1481
5 MFS_N3	627.00 > 533.00	6.097	6.088	0.009	1.361	4630836	11.0	110	3205
6 MFS_M4	743.00 > 649.00	6.481	6.471	0.010	1.446	1852226	10.9	106	3152
7 MFS_N4	793.00 > 699.00	6.622	6.605	0.017	1.478	1955974	10.8	108	3002
8 MFS_N5	959.00 > 865.00	6.995	6.979	0.016	1.561	1828822	11.2	111	4685

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-13.d

Injection Date: 31-May-2022 17:46:19

Instrument ID: 30733

Lims ID: LCS 410-256033/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

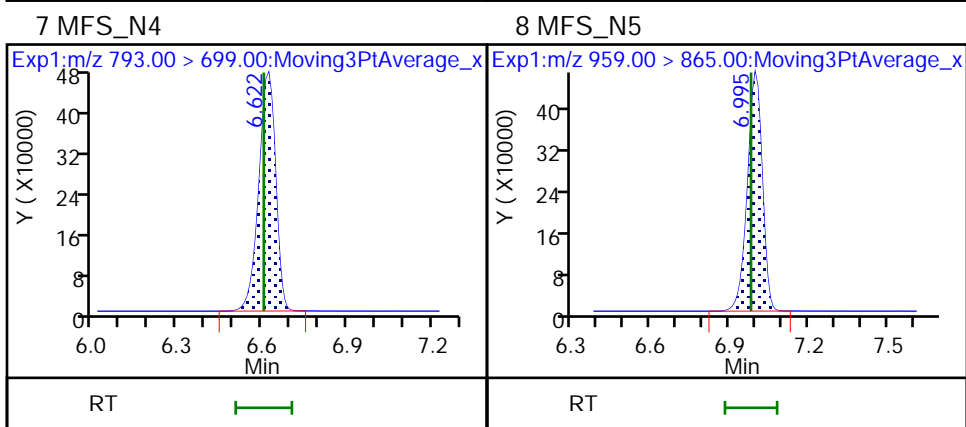
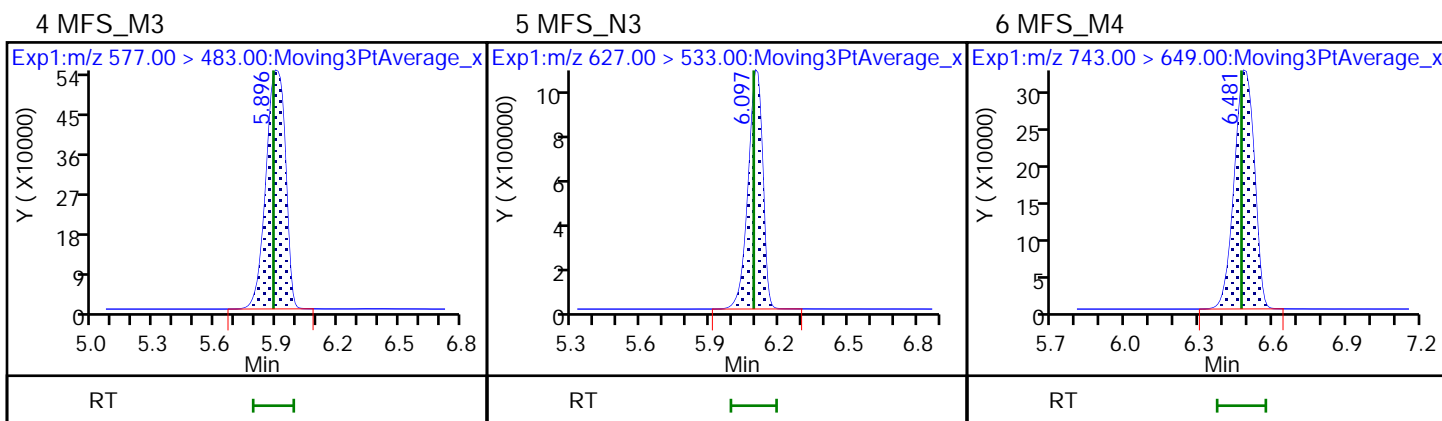
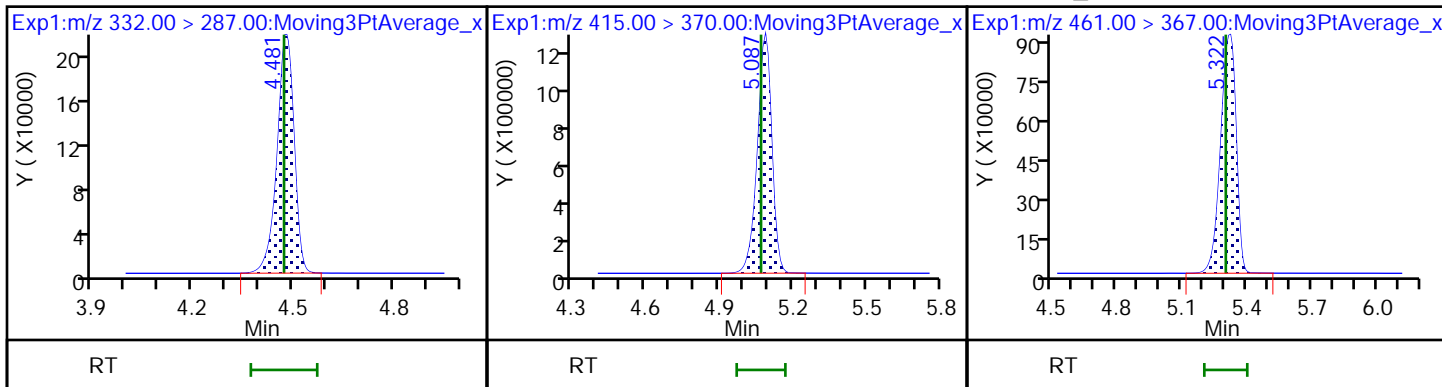
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-259821/2-A

Matrix: Water Lab File ID: 22MAY31MFS-24.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 250 (mL) Date Analyzed: 05/31/2022 20:05

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	45.7		1.0	0.20
STL02874	MFS_M3	45.6		1.0	0.20
STL02875	MFS_N3	45.6		1.0	0.20
STL02876	MFS_M4	45.4		1.0	0.50
STL02877	MFS_N4	43.5		2.0	1.0
STL02888	MFS_N5	44.9		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-24.d
 Lims ID: LCS 410-259821/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-May-2022 20:05:14 ALS Bottle#: 20 Worklist Smp#: 13
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-259821/2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:43:37
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.477	4.473	0.004	0.882	815555	5.27	105	3118
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		3910560	5.00		3476
3 MFS_N2	461.00 > 367.00	5.308	5.301	0.007	1.186	4975467	11.4	113	8511
4 MFS_M3	577.00 > 483.00	5.888	5.886	0.002	1.315	3916482	11.4	113	1600
5 MFS_N3	627.00 > 533.00	6.091	6.088	0.003	1.360	5159721	11.4	114	3490
6 MFS_M4	743.00 > 649.00	6.482	6.471	0.011	1.448	2093129	11.4	111	3312
7 MFS_N4	793.00 > 699.00	6.614	6.605	0.009	1.477	2126154	10.9	108	3330
8 MFS_N5	959.00 > 865.00	6.989	6.979	0.010	1.561	1989622	11.2	112	5395

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-24.d

Injection Date: 31-May-2022 20:05:14

Instrument ID: 30733

Lims ID: LCS 410-259821/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 20

Worklist Smp#: 13

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

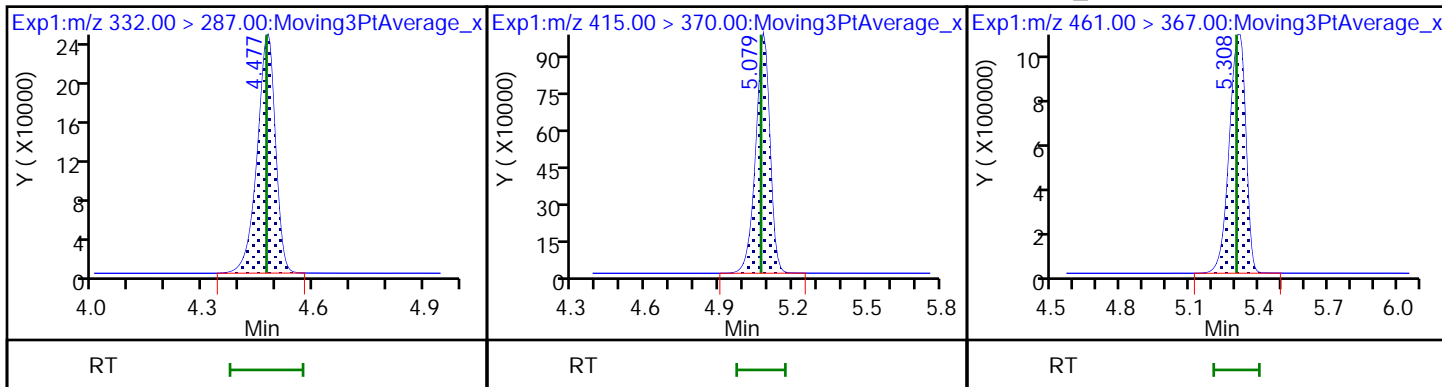
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

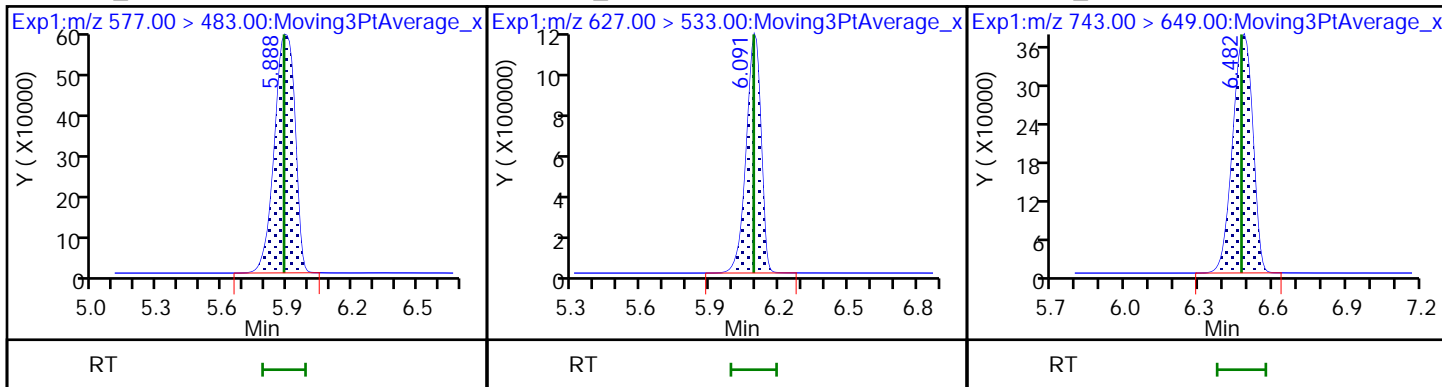
3 MFS_N2



4 MFS_M3

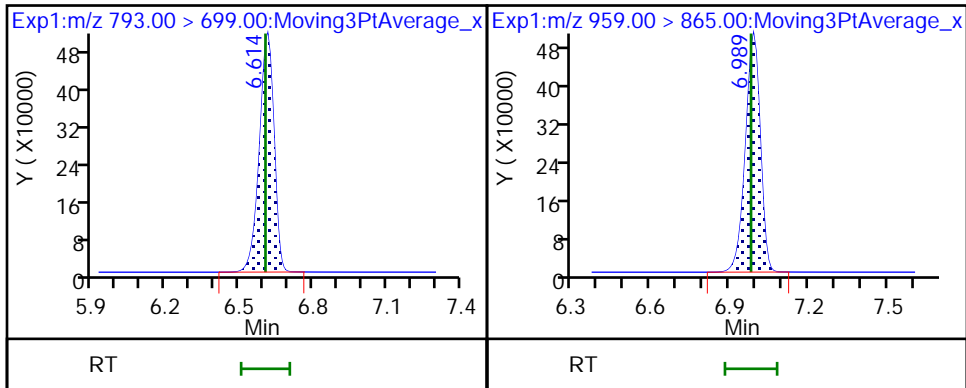
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S MS Lab Sample ID: 410-83867-5 MS

Matrix: Water Lab File ID: 22MAY31MFS-19.d

Analysis Method: MFS Date Collected: 05/11/2022 13:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 294.8 (mL) Date Analyzed: 05/31/2022 19:02

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	142		0.85	0.17
STL02874	MFS_M3	77.0		0.85	0.17
STL02875	MFS_N3	112		0.85	0.17
STL02876	MFS_M4	55.4		0.85	0.42
STL02877	MFS_N4	52.6		1.7	0.85
STL02888	MFS_N5	32.0		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-19.d
 Lims ID: 410-83867-B-5-B MS
 Client ID: MW-106S
 Sample Type: MS
 Inject. Date: 31-May-2022 19:02:05 ALS Bottle#: 16 Worklist Smp#: 8
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-5-B MS RA
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:39:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.469	4.473	-0.004	0.880	466935	3.27	65.3	2106
* 2 13C2 PFOA	415.00 > 370.00	5.079	5.069	0.010		3614374	5.00		2969
3 MFS_N2	461.00 > 367.00	5.309	5.301	0.008	1.188	10424563	41.8	414	12647
4 MFS_M3	577.00 > 483.00	5.877	5.886	-0.009	1.315	4467347	22.7	225	1159
5 MFS_N3	627.00 > 533.00	6.090	6.088	0.002	1.363	8590227	33.1	331	4914
6 MFS_M4	743.00 > 649.00	6.481	6.471	0.010	1.450	1723784	16.3	160	3025
7 MFS_N4	793.00 > 699.00	6.613	6.605	0.008	1.480	1699713	15.5	154	2989
8 MFS_N5	959.00 > 865.00	6.984	6.979	0.005	1.563	959902	9.45	94.4	3372

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-19.d

Injection Date: 31-May-2022 19:02:05

Instrument ID: 30733

Lims ID: 410-83867-B-5-B MS

Client ID: MW-106S

Operator ID: US19_USR_INS20260

ALS Bottle#: 16

Worklist Smp#: 8

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

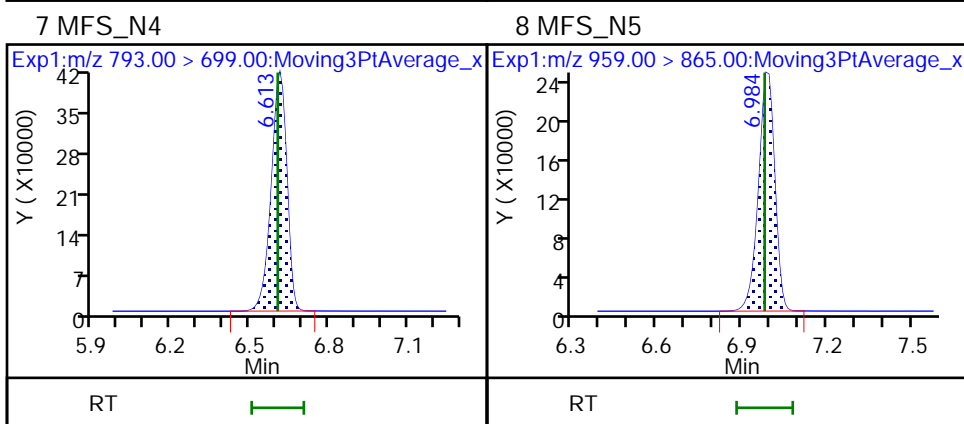
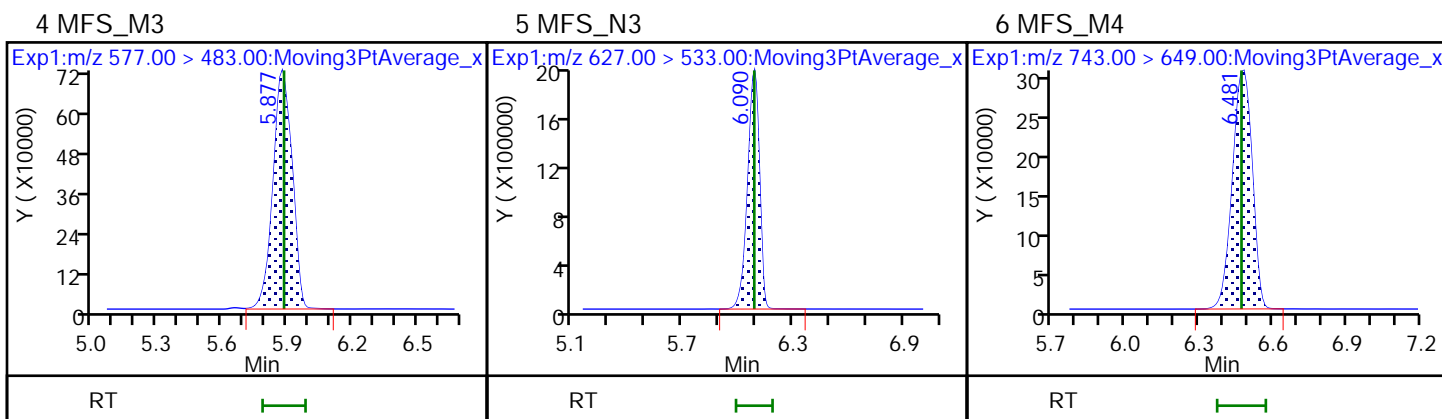
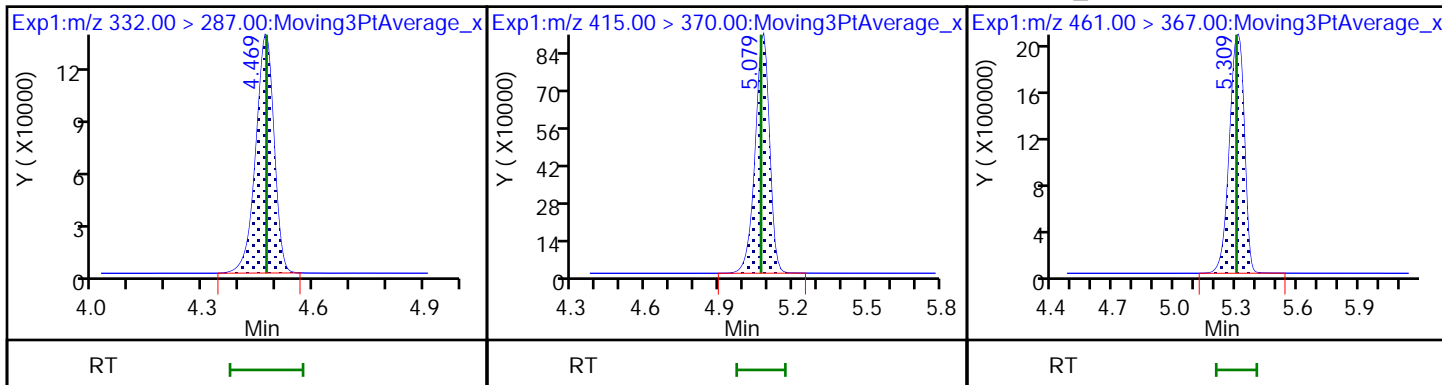
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW106D MS Lab Sample ID: 410-83867-6 MS

Matrix: Water Lab File ID: 22MAY31MFS-26.d

Analysis Method: MFS Date Collected: 05/11/2022 13:05

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 266.7(mL) Date Analyzed: 05/31/2022 20:30

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	50.1		0.94	0.19
STL02874	MFS_M3	45.1		0.94	0.19
STL02875	MFS_N3	46.2		0.94	0.19
STL02876	MFS_M4	47.6		0.94	0.47
STL02877	MFS_N4	48.4		1.9	0.94
STL02888	MFS_N5	40.3		2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-26.d
 Lims ID: 410-83867-B-6-B MS
 Client ID: MW106D
 Sample Type: MS
 Inject. Date: 31-May-2022 20:30:29 ALS Bottle#: 22 Worklist Smp#: 15
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-6-B MS
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:43:58
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.474	4.473	0.001	0.882	711458	4.56	91.2	2451
* 2 13C2 PFOA	415.00 > 370.00	5.075	5.069	0.006		3942871	5.00		3828
3 MFS_N2	461.00 > 367.00	5.309	5.301	0.008	1.187	5077847	13.4	132	7873
4 MFS_M3	577.00 > 483.00	5.889	5.886	0.003	1.316	3611123	12.0	119	1448
5 MFS_N3	627.00 > 533.00	6.092	6.088	0.004	1.362	4873220	12.3	123	3199
6 MFS_M4	743.00 > 649.00	6.475	6.471	0.004	1.447	2040988	12.7	125	3334
7 MFS_N4	793.00 > 699.00	6.609	6.605	0.004	1.477	2180838	12.9	128	3343
8 MFS_N5	959.00 > 865.00	6.994	6.979	0.015	1.563	1661058	10.7	107	4561

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-26.d

Injection Date: 31-May-2022 20:30:29

Instrument ID: 30733

Lims ID: 410-83867-B-6-B MS

Client ID: MW106D

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 15

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

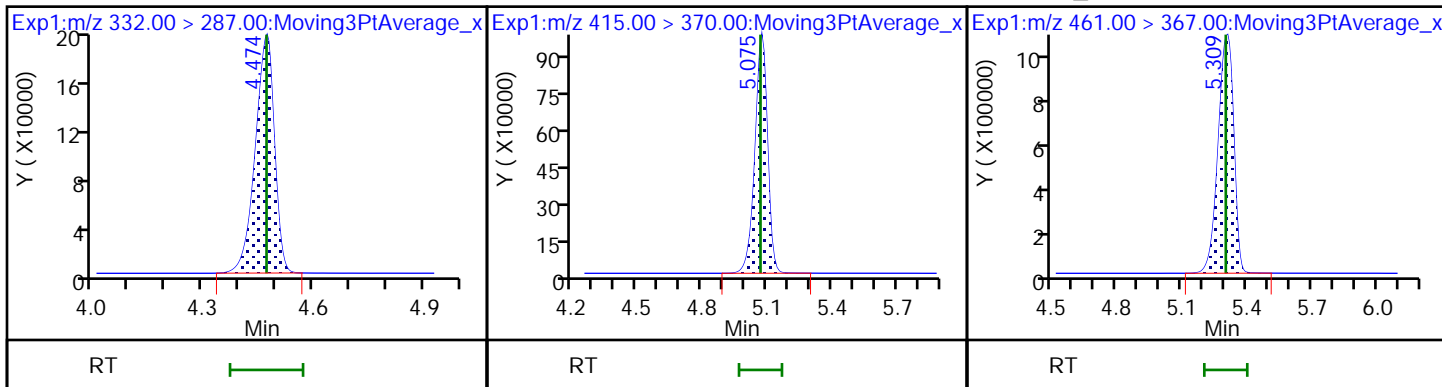
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

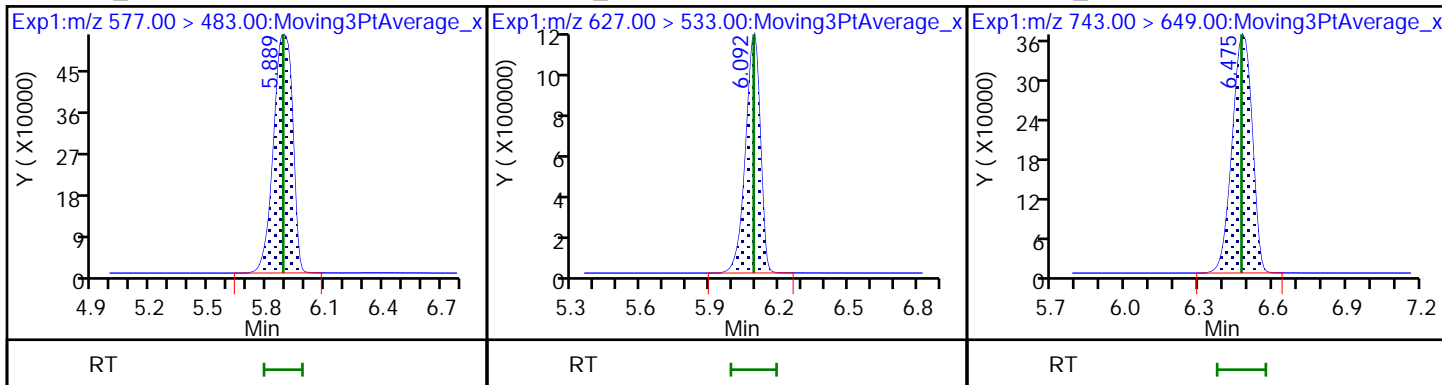
3 MFS_N2



4 MFS_M3

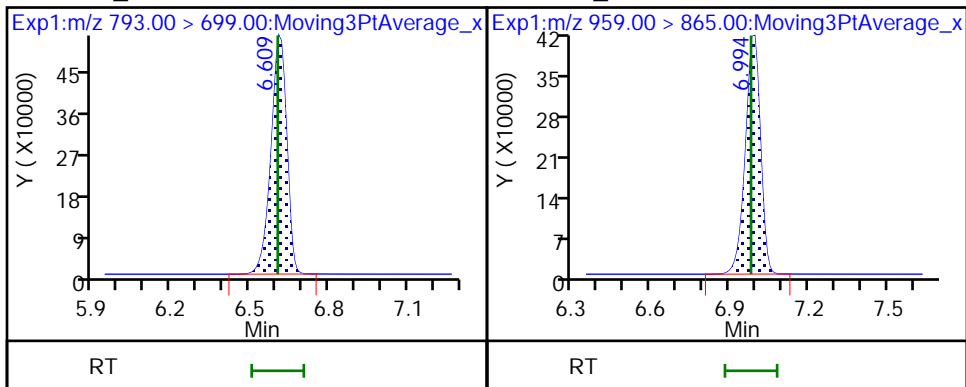
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S MSD Lab Sample ID: 410-83867-5 MSD

Matrix: Water Lab File ID: 22MAY31MFS-20.d

Analysis Method: MFS Date Collected: 05/11/2022 13:35

Extraction Method: 3535 Date Extracted: 05/17/2022 09:10

Sample wt/vol: 293.2 (mL) Date Analyzed: 05/31/2022 19:14

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 15 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	130		0.85	0.17
STL02874	MFS_M3	86.9		0.85	0.17
STL02875	MFS_N3	127		0.85	0.17
STL02876	MFS_M4	61.9		0.85	0.43
STL02877	MFS_N4	59.2		1.7	0.85
STL02888	MFS_N5	40.6		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	54		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-20.d
 Lims ID: 410-83867-B-5-C MSD
 Client ID: MW-106S
 Sample Type: MSD
 Inject. Date: 31-May-2022 19:14:42 ALS Bottle#: 17 Worklist Smp#: 9
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-5-C MSD RA
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:40:02 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:39:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.481	4.473	0.008	0.881	465412	2.69	53.8	2156
* 2 13C2 PFOA	415.00 > 370.00	5.088	5.069	0.019		4374223	5.00		3196
3 MFS_N2	461.00 > 367.00	5.323	5.301	0.022	1.188	9511138	38.2	379	11114
4 MFS_M3	577.00 > 483.00	5.879	5.886	-0.007	1.312	5001456	25.5	252	1069
5 MFS_N3	627.00 > 533.00	6.100	6.088	0.012	1.361	9617637	37.2	372	4368
6 MFS_M4	743.00 > 649.00	6.487	6.471	0.016	1.448	1908206	18.1	178	3179
7 MFS_N4	793.00 > 699.00	6.619	6.605	0.014	1.477	1883635	17.4	173	3160
8 MFS_N5	959.00 > 865.00	6.994	6.979	0.015	1.561	1200335	11.9	119	3918

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-20.d

Injection Date: 31-May-2022 19:14:42

Instrument ID: 30733

Lims ID: 410-83867-B-5-C MSD

Client ID: MW-106S

Operator ID: US19_USR_INS20260

ALS Bottle#: 17

Worklist Smp#: 9

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

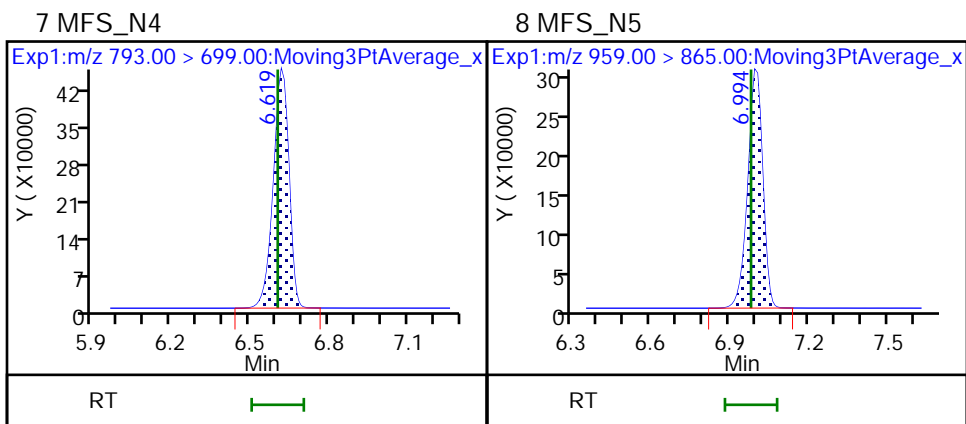
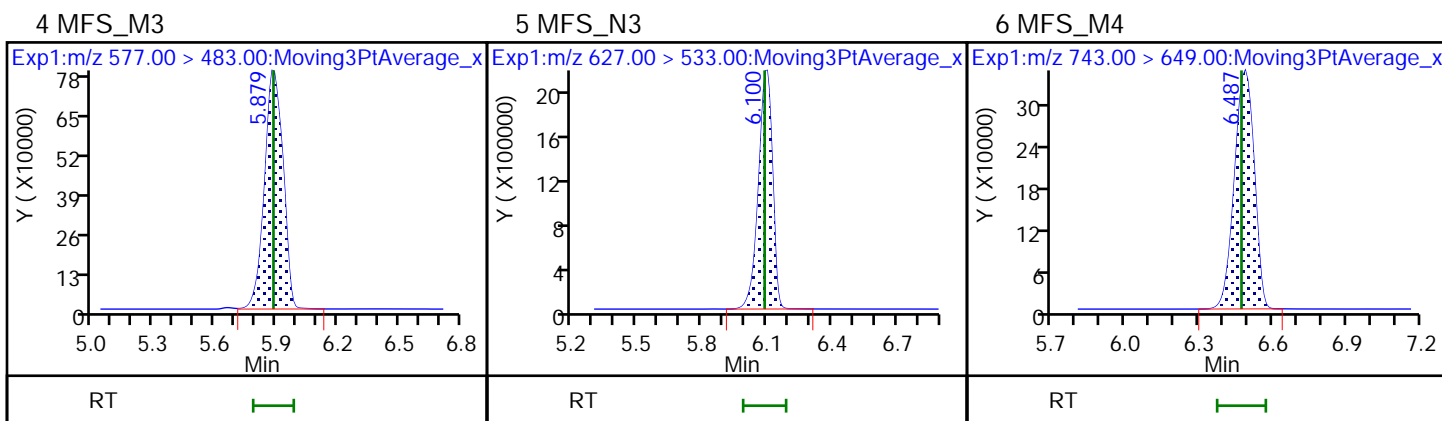
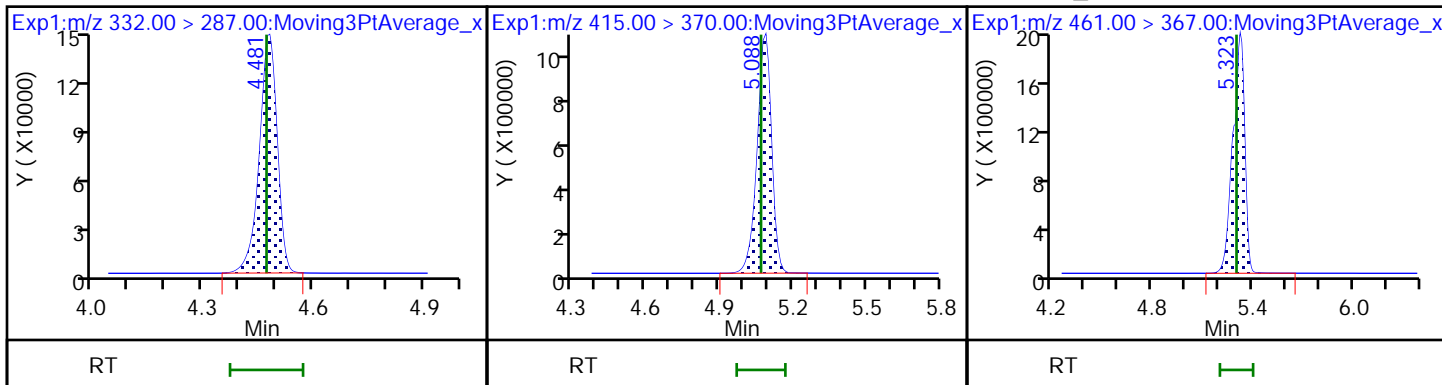
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-83867-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW106D MSD Lab Sample ID: 410-83867-6 MSD

Matrix: Water Lab File ID: 22MAY31MFS-27.d

Analysis Method: MFS Date Collected: 05/11/2022 13:05

Extraction Method: 3535 Date Extracted: 05/27/2022 13:26

Sample wt/vol: 259.9(mL) Date Analyzed: 05/31/2022 20:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 15(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 260445 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	52.9		0.96	0.19
STL02874	MFS_M3	47.2		0.96	0.19
STL02875	MFS_N3	48.4		0.96	0.19
STL02876	MFS_M4	47.7		0.96	0.48
STL02877	MFS_N4	45.9		1.9	0.96
STL02888	MFS_N5	29.8		2.9	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	87		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-27.d
 Lims ID: 410-83867-B-6-C MSD
 Client ID: MW106D
 Sample Type: MSD
 Inject. Date: 31-May-2022 20:43:03 ALS Bottle#: 23 Worklist Smp#: 16
 Injection Vol: 15.0 ul Dil. Factor: 1.0000
 Sample Info: 410-83867-B-6-C MSD
 Misc. Info.: Plate: 10 Rack: 1 410-0058410-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 01-Jun-2022 06:44:37 Calib Date: 31-May-2022 16:30:38
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220531-58409.b\22MAY31MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1632

First Level Reviewer: kruelleh Date: 01-Jun-2022 06:44:03
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.469	4.473	-0.004	0.880	666606	4.35	87.1	2516
* 2 13C2 PFOA	415.00 > 370.00	5.078	5.069	0.009		3871723	5.00		3082
3 MFS_N2	461.00 > 367.00	5.308	5.301	0.007	1.188	4897356	13.7	136	7906
4 MFS_M3	577.00 > 483.00	5.885	5.886	-0.001	1.317	3446962	12.3	121	1467
5 MFS_N3	627.00 > 533.00	6.088	6.088	0.0	1.362	4653622	12.6	126	3083
6 MFS_M4	743.00 > 649.00	6.471	6.471	0.0	1.448	1866495	12.4	122	3383
7 MFS_N4	793.00 > 699.00	6.605	6.605	0.0	1.478	1894758	11.9	119	2823
8 MFS_N5	959.00 > 865.00	6.980	6.979	0.001	1.562	1125712	7.74	77.4	3730

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00336 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220531-58410.b\22MAY31MFS-27.d

Injection Date: 31-May-2022 20:43:03

Instrument ID: 30733

Lims ID: 410-83867-B-6-C MSD

Client ID: MW106D

Operator ID: US19_USR_INS20260

ALS Bottle#: 23

Worklist Smp#: 16

Injection Vol: 15.0 ul

Dil. Factor: 1.0000

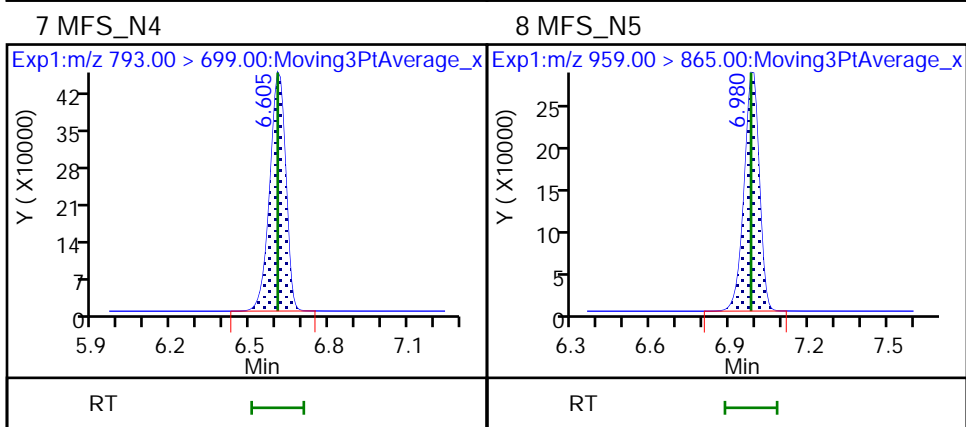
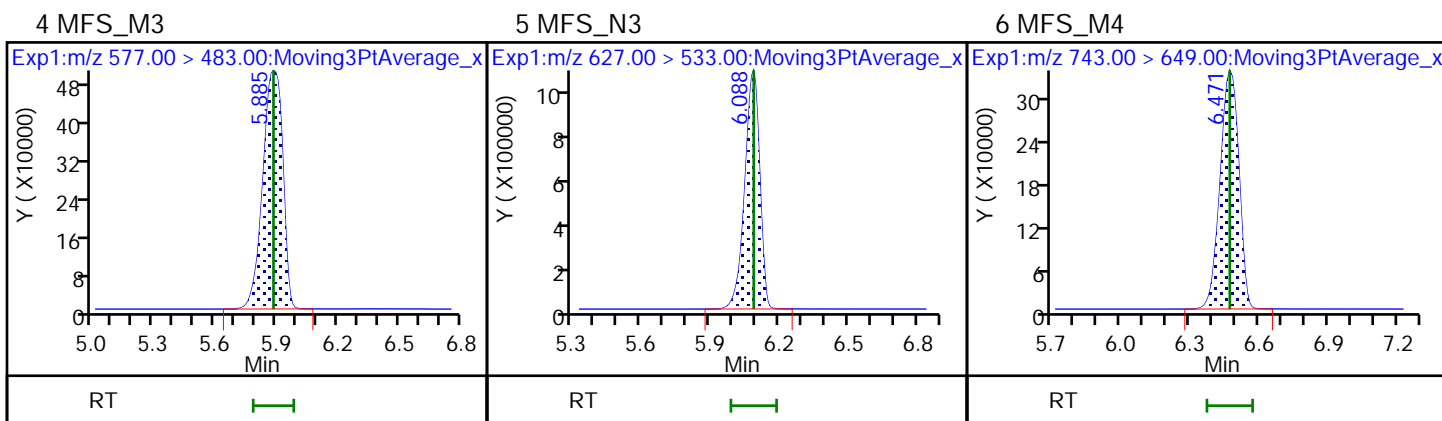
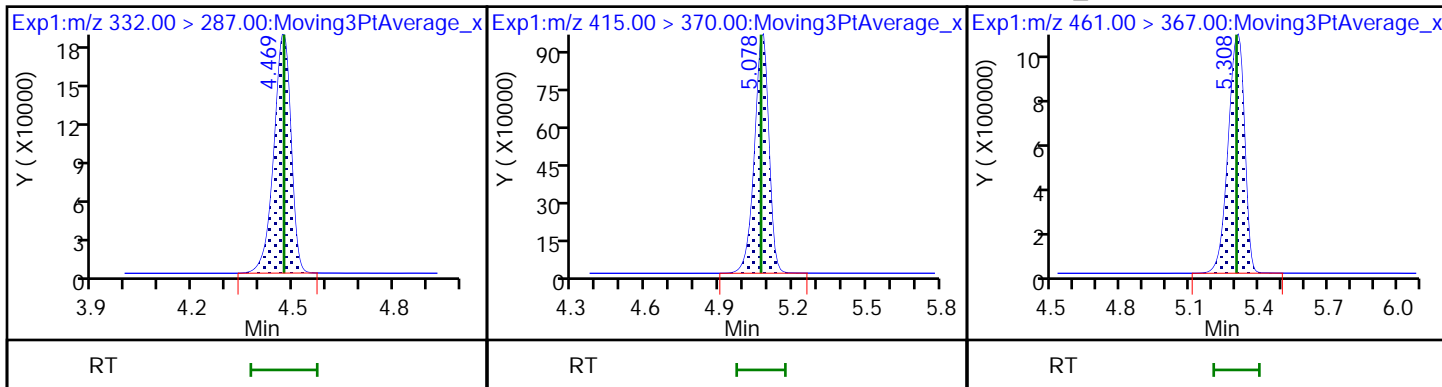
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/24/2022 07:24

Analysis Batch Number: 258360 End Date: 05/24/2022 09:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-258360/1		05/24/2022 07:24	1	22MAY24MFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-258360/2		05/24/2022 07:38	1	22MAY24MFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-258360/3		05/24/2022 07:50	1	22MAY24MFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-258360/4		05/24/2022 08:03	1	22MAY24MFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-258360/5		05/24/2022 08:15	1	22MAY24MFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-258360/6		05/24/2022 08:28	1	22MAY24MFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-258360/7		05/24/2022 08:41	1	22MAY24MFS-07.d	Gemini C18 50mm 3 (mm)
ICB 410-258360/8		05/24/2022 08:53	1	22MAY24MFS-08.d	Gemini C18 50mm 3 (mm)
ICV 410-258360/9		05/24/2022 09:06	1	22MAY24MFS-09.d	Gemini C18 50mm 3 (mm)
CCV 410-258360/10		05/24/2022 09:19	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/24/2022 09:56

Analysis Batch Number: 258462 End Date: 05/24/2022 15:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-258462/1		05/24/2022 09:56	1	22MAY24MFS-13.d	Gemini C18 50mm 3 (mm)
MB 410-256033/1-A		05/24/2022 10:10	1	22MAY24MFS-14.d	Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 10:35	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 10:48	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 11:01	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 11:13	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 11:26	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 11:38	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 11:51	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 12:04	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 12:16	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 12:29	1		Gemini C18 50mm 3 (mm)
CCV 410-258462/14		05/24/2022 12:43	1	22MAY24MFS-26.d	Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 12:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		05/24/2022 13:08	1		Gemini C18 50mm 3 (mm)
410-83867-1	MW-109S	05/24/2022 13:20	1	22MAY24MFS-29.d	Gemini C18 50mm 3 (mm)
410-83867-2	MW-109D	05/24/2022 13:33	1	22MAY24MFS-30.d	Gemini C18 50mm 3 (mm)
410-83867-3	MW-124S	05/24/2022 13:46	1	22MAY24MFS-31.d	Gemini C18 50mm 3 (mm)
410-83867-4	MW-124D	05/24/2022 13:58	1	22MAY24MFS-32.d	Gemini C18 50mm 3 (mm)
CCV 410-258462/25		05/24/2022 15:01	1	22MAY24MFS-37.d	Gemini C18 50mm 3 (mm)
410-83867-8	DUP2_05112022	05/24/2022 15:14	1	22MAY24MFS-38.d	Gemini C18 50mm 3 (mm)
410-83867-9	EB_05112022	05/24/2022 15:27	1	22MAY24MFS-39.d	Gemini C18 50mm 3 (mm)
CCV 410-258462/28		05/24/2022 15:39	1	22MAY24MFS-40.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/31/2022 15:13

Analysis Batch Number: 260443 End Date: 05/31/2022 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-260443/1		05/31/2022 15:13	1	22MAY31MFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-260443/2		05/31/2022 15:27	1	22MAY31MFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-260443/3		05/31/2022 15:40	1	22MAY31MFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-260443/4		05/31/2022 15:52	1	22MAY31MFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-260443/5		05/31/2022 16:05	1	22MAY31MFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-260443/6		05/31/2022 16:18	1	22MAY31MFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-260443/7		05/31/2022 16:30	1	22MAY31MFS-07.d	Gemini C18 50mm 3 (mm)
ICB 410-260443/8		05/31/2022 16:43	1	22MAY31MFS-08.d	Gemini C18 50mm 3 (mm)
ICV 410-260443/9		05/31/2022 16:55	1	22MAY31MFS-09.d	Gemini C18 50mm 3 (mm)
CCV 410-260443/10		05/31/2022 17:08	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Start Date: 05/31/2022 17:33

Analysis Batch Number: 260445 End Date: 05/31/2022 21:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-260445/1		05/31/2022 17:33	1	22MAY31MFS-12.d	Gemini C18 50mm 3 (mm)
LCS 410-256033/2-A		05/31/2022 17:46	1	22MAY31MFS-13.d	Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 17:58	10		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 18:11	10		Gemini C18 50mm 3 (mm)
ZZZZZ		05/31/2022 18:24	10		Gemini C18 50mm 3 (mm)
410-83867-1 DL	MW-109S DL	05/31/2022 18:36	10	22MAY31MFS-17.d	Gemini C18 50mm 3 (mm)
410-83867-5	MW-106S	05/31/2022 18:49	1	22MAY31MFS-18.d	Gemini C18 50mm 3 (mm)
410-83867-5 MS	MW-106S MS	05/31/2022 19:02	1	22MAY31MFS-19.d	Gemini C18 50mm 3 (mm)
410-83867-5 MSD	MW-106S MSD	05/31/2022 19:14	1	22MAY31MFS-20.d	Gemini C18 50mm 3 (mm)
410-83867-7	DUP1_05112022	05/31/2022 19:27	1	22MAY31MFS-21.d	Gemini C18 50mm 3 (mm)
CCV 410-260445/11		05/31/2022 19:39	1	22MAY31MFS-22.d	Gemini C18 50mm 3 (mm)
MB 410-259821/1-A		05/31/2022 19:52	1	22MAY31MFS-23.d	Gemini C18 50mm 3 (mm)
LCS 410-259821/2-A		05/31/2022 20:05	1	22MAY31MFS-24.d	Gemini C18 50mm 3 (mm)
410-83867-6	MW106D	05/31/2022 20:17	1	22MAY31MFS-25.d	Gemini C18 50mm 3 (mm)
410-83867-6 MS	MW106D MS	05/31/2022 20:30	1	22MAY31MFS-26.d	Gemini C18 50mm 3 (mm)
410-83867-6 MSD	MW106D MSD	05/31/2022 20:43	1	22MAY31MFS-27.d	Gemini C18 50mm 3 (mm)
410-83867-10	MW-111S	05/31/2022 20:55	1	22MAY31MFS-28.d	Gemini C18 50mm 3 (mm)
410-83867-11	MW-111D	05/31/2022 21:08	1	22MAY31MFS-29.d	Gemini C18 50mm 3 (mm)
410-83867-12	EB_05122022	05/31/2022 21:20	1	22MAY31MFS-30.d	Gemini C18 50mm 3 (mm)
CCV 410-260445/20		05/31/2022 21:33	1	22MAY31MFS-31.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-83867-1

SDG No.: _____

Instrument ID: 30733 Start Date: 06/01/2022 09:52

Analysis Batch Number: 260769 End Date: 06/01/2022 11:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-260769/1		06/01/2022 09:52	1	22JUN01MFS-01.d	Gemini C18 50mm 3 (mm)
410-83867-10 DL	MW-111S DL	06/01/2022 10:44	10	22JUN01MFS-05.d	Gemini C18 50mm 3 (mm)
410-83867-11 DL	MW-111D DL	06/01/2022 10:56	10	22JUN01MFS-06.d	Gemini C18 50mm 3 (mm)
CCV 410-260769/7		06/01/2022 11:09	1	22JUN01MFS-07.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 256033 Batch Start Date: 05/17/22 09:10 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN MFS 00024	PFC_SS 00010
MB 410-256033/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-256033/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-83867-B-1	MW-109S	3535, MFS	T	285.86 g	28.47 g	257.4 mL	1 mL		0.1 mL
410-83867-B-2	MW-109D	3535, MFS	T	320.12 g	27.41 g	292.7 mL	1 mL		0.1 mL
410-83867-B-3	MW-124S	3535, MFS	T	298.47 g	29.14 g	269.3 mL	1 mL		0.1 mL
410-83867-B-4	MW-124D	3535, MFS	T	321.30 g	27.47 g	293.8 mL	1 mL		0.1 mL
410-83867-B-5	MW-106S	3535, MFS	T	289.45 g	27.16 g	262.3 mL	1 mL		0.1 mL
410-83867-B-5 MS	MW-106S	3535, MFS	T	322.94 g	28.12 g	294.8 mL	1 mL	0.1 mL	0.1 mL
410-83867-B-5 MSD	MW-106S	3535, MFS	T	320.49 g	27.27 g	293.2 mL	1 mL	0.1 mL	0.1 mL
410-83867-B-7	DUP1_05112022	3535, MFS	T	330.00 g	28.07 g	301.9 mL	1 mL		0.1 mL
410-83867-B-8	DUP2_05112022	3535, MFS	T	289.30 g	28.15 g	261.2 mL	1 mL		0.1 mL
410-83867-B-9	EB_05112022	3535, MFS	T	289.05 g	27.66 g	261.4 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-256033/1		3535, MFS							
LCS 410-256033/2		3535, MFS							
410-83867-B-1	MW-109S	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-2	MW-109D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-3	MW-124S	3535, MFS	T	Discolored, Particulate, Vacuum was applied, Cloudy					
410-83867-B-4	MW-124D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 256033 Batch Start Date: 05/17/22 09:10 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-83867-B-5	MW-106S	3535, MFS	T	Discolored, Sediment, Vacuum was applied					
410-83867-B-5 MS	MW-106S	3535, MFS	T	Discolored, Sediment, Vacuum was applied					
410-83867-B-5 MSD	MW-106S	3535, MFS	T	Discolored, Sediment, Vacuum was applied					
410-83867-B-7	DUP1_05112022	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-8	DUP2_05112022	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-9	EB_05112022	3535, MFS	T						

Batch Notes	
SPE Cartridge Lot ID	6666672-01
Balance ID	C125996498
Manifold ID	1 & 4
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217301
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210130-058

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 256033 Batch Start Date: 05/17/22 09:10 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Oper: 5/17/2022 9:10:00AM

Batch Number: 410-256033
Method Code: 410-3535_28D-410

Batch End: B410-256033



Solid-Phase Extraction (SPE)

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHs		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
				Rcvd	Adj1					
1 MB-410-256033/1 N/A	N/A	300 g	250 mL			N/A	N/A	N/A		
		50 g	1 mL							
2 LCS-410-256033/2 N/A	N/A	300 g	250 mL			N/A	N/A	N/A		
		50 g	1 mL							
3 410-83412-B-1 (MFS_IDA)	N/A (410-83412-1)	349.87 g	322.7 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.22 g	1 mL							
4 410-83412-B-2 (MFS_IDA)	N/A (410-83412-1)	321.03 g	293.7 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.37 g	1 mL							
5 410-83412-B-3 (MFS_IDA)	N/A (410-83412-1)	314.97 g	287.5 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.45 g	1 mL							
6 410-83412-B-4 (MFS_IDA)	N/A (410-83412-1)	328.07 g	301 mL			5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.11 g	1 mL							
7 410-83412-B-5 (MFS_IDA)	N/A (410-83412-1)	285.68 g	258 mL			5/13/22	7_Days	4		
		27.67 g	1 mL							
8 410-83412-B-6 (MFS_IDA)	N/A (410-83412-1)	292.80 g	265 mL			5/13/22	7_Days	4		
		27.78 g	1 mL							

Printed: 5/17/2022
N-EXAP C, 40°C
EBG 2009/4
Page 1 of 7
5/19/20
Reconstituted by EBG 2009/4
5/19/22
-ancaster Laboratories Environment Testing, LLC/122

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna


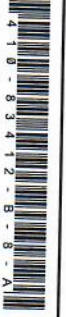
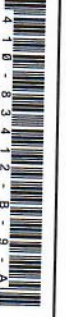






Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/03/2022

Sample ID	Container ID	Weight (g)	Volume (mL)	Date	Incubation	Replicates	Observations	Barcode
9	410-83412-B-7 (MFS_IDA)	N/A	287.9 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		815.69 g						
10	410-83412-B-8 (MFS_IDA)	N/A	285.4 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		812.46 g						
		27.83 g						
11	410-83412-B-9 (MFS_IDA)	N/A	275.1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy	
		802.43 g						
12	410-83412-B-10 (MFS_IDA)	N/A	289.1 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.34 g						
13	410-83412-B-11 (MFS_IDA)	N/A	276.9 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		804.08 g						
14	410-83412-B-12 (MFS_IDA)	N/A	280.7 mL	5/13/22	7_Days	4	Discolored, Particulate, Vacuum was applied	
		27.19 g						
15	410-83867-B-1 (MFS_IDA)	N/A	257.4 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		285.86 g						
16	410-83867-B-2 (MFS_IDA)	N/A	292.7 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		28.47 g						
17	410-83867-B-3 (MFS_IDA)	N/A	269.3 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied, Cloudy	
		298.47 g						

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/03/2022

Sample ID	Container ID	Weight (g)	Volume (mL)	Date	Days	Replicates	Notes	Barcode
18	410-83867-B-4 (MFS_IDA)	N/A	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		321.30 g	293.8 mL					
19	410-83867-B-5 (MFS_IDA)	N/A	1 mL	5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied	
		27.47 g	262.3 mL					
20	410-83867-B-5-MS (MFS_IDA)	N/A	1 mL	5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied	
		27.16 g	294.8 mL					
21	410-83867-B-5-MSD (MFS_IDA)	N/A	1 mL	5/18/22	10_Days	4	Discolored, Sediment, Vacuum was applied	
		28.12 g	293.2 mL					
22	410-83867-B-7 (MFS_IDA)	N/A	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		27.27 g	301.9 mL					
23	410-83867-B-8 (MFS_IDA)	N/A	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		28.07 g	261.2 mL					
24	410-83867-B-9 (MFS_IDA)	N/A	1 mL	5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	
		28.15 g	261.4 mL					
		289.05 g						
		27.56 g						

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/03/2022

Batch Notes

pH Indicator ID	
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6666672-01
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	C125996498
Manifold ID	1 & 4
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8
Na2SO4 ID	
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	2008405172233A
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	LB44841
Methanol ID	217301
Milli-Q Reagent Water ID	House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/03/2022

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210130-058

Batch Comment

Comments

410-83412-B-11

Method Comments: Client note: HIGH TURBIDITY

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Open: 5/17/2022 9:10:00AM

Batch End:

06/03/2022

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-256033/1	PFC_SS_00010	.100 mL	1 mL		
LCS 410-256033/2	PFC_IN_MFS_00024	.100 mL	1 mL		
LCS 410-256033/2	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-1	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-2	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-3	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-4	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-5	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-6	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-7	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-8	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-9	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-10	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-11	PFC_SS_00010	.100 mL	1 mL		
410-83412-B-12	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-1	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-2	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-3	PFC_SS_00010	.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-256033

Method Code: 410-3535_28D-410

Batch Oper: 5/17/2022 9:10:00AM

Batch End:

06/03/2022

410-83867-B-4	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-5	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-5 MS	PFC_IN_MFS_00024	.100 mL	1 mL		
410-83867-B-5 MS	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-5 MSD	PFC_IN_MFS_00024	.100 mL	1 mL		
410-83867-B-5 MSD	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-7	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-8	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-9	PFC_SS_00010	.100 mL	1 mL		

Other Reagents:

Reagent

Amount/Units

Lot#:

Internal Standard

20ul

PFC-15 MSD 0838

DCM910 05/19/22

D10 - 850 ul MeOH (ED 663-05) + 50 ul IS (PFC-15 MSD 00331) + 100 ul sample

*410-27321
5/25/22*

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 258360 Batch Start Date: 05/24/22 07:24 Batch Analyst: Kruelle, Hannah K

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00009	PFC_INT_ 00009	PFC_IS_MOD 00325	PFC_STD_MFS1 00008	PFC_STD_MFS2 00009	PFC_STD_MFS3 00007
IC 410-258360/1		MFS					200 uL		
IC 410-258360/2		MFS						200 uL	
IC 410-258360/3		MFS							200 uL
IC 410-258360/4		MFS							
ICISAV 410-258360/5		MFS							
IC 410-258360/6		MFS							
IC 410-258360/7		MFS							
ICB 410-258360/8		MFS			10 uL	50 uL			
ICV 410-258360/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00009	PFC_STD_MFS5 00007	PFC_STD_MFS6 00007	PFC_STD_MFS7 00007		
IC 410-258360/1		MFS							
IC 410-258360/2		MFS							
IC 410-258360/3		MFS							
IC 410-258360/4		MFS		200 uL					
ICISAV 410-258360/5		MFS			200 uL				
IC 410-258360/6		MFS				200 uL			
IC 410-258360/7		MFS					200 uL		
ICB 410-258360/8		MFS							
ICV 410-258360/9		MFS							

Batch Notes	
Mobil Phase ID	2732105232233A; 2732105232233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 259821 Batch Start Date: 05/27/22 13:26 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN MFS 00024	PFC_SS 00010
MB 410-259821/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-259821/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-83867-B-6	MW106D	3535, MFS	T	322.27 g	27.58 g	294.7 mL	1 mL		0.1 mL
410-83867-B-6 MS	MW106D	3535, MFS	T	294.76 g	28.08 g	266.7 mL	1 mL	0.1 mL	0.1 mL
410-83867-B-6 MSD	MW106D	3535, MFS	T	287.76 g	27.90 g	259.9 mL	1 mL	0.1 mL	0.1 mL
410-83867-B-10	MW-111S	3535, MFS	T	317.44 g	27.42 g	290 mL	1 mL		0.1 mL
410-83867-B-11	MW-111D	3535, MFS	T	331.28 g	27.26 g	304 mL	1 mL		0.1 mL
410-83867-B-12	EB_05122022	3535, MFS	T	293.67 g	28.60 g	265.1 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-259821/1		3535, MFS							
LCS 410-259821/2		3535, MFS							
410-83867-B-6	MW106D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-6 MS	MW106D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-6 MSD	MW106D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-10	MW-111S	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-11	MW-111D	3535, MFS	T	Discolored, Particulate, Vacuum was applied					
410-83867-B-12	EB_05122022	3535, MFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 259821 Batch Start Date: 05/27/22 13:26 Batch Analyst: Lugo, Dayanna

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6666675-01
Balance ID	C125996498
Manifold ID	1, 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8
Solvent Name	.3% NH4OH in MeOH
Solvent Lot #	4072605262233A
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	DC20115
Methanol ID	217031
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210130-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Batch Number: 410-259821
 Method Code: 410-3535_28D-410
 5/20

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Solid-Phase Extraction (SPE)

Batch Oper: 5/27/2022 1:26:00PM
 Batch End: B410-259821



Input Sample Lab ID (Analytical Method)	SDG (Job #)	Gross Wt Tare Wt	Init Amt Fin Amt	PHS		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
				Adj1	Adj2					
1 MB-410-259821/1 N/A	N/A	800 g	250 mL			N/A	N/A	N/A		MB 410-259821/1-A
		50 g	1 mL							
2 LCS-410-259821/2 N/A	N/A	800 g	250 mL			N/A	N/A	N/A		LCS 410-259821/2-A
		50 g	1 mL							
		822.27 g	294.7 mL							
3 410-83867-B-6 (MFS_IDA)	N/A (410-83867-1)	27.58 g	1 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-B-6-A
		294.76 g	266.7 mL							
		28.08 g	1 mL							
4 410-83867-B-6-MS (MFS_IDA)	N/A (410-83867-1)	287.76 g	259.9 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-B-6-MSD
		27.90 g	1 mL							
		817.44 g	290 mL							
5 410-83867-B-10 (MFS_IDA)	N/A (410-83867-1)	27.42 g	1 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-B-10-A
		831.28 g	304 mL							
		27.26 g	1 mL							
6 410-83867-B-11 (MFS_IDA)	N/A (410-83867-1)	293.67 g	265.1 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-B-11-A
		28.60 g	1 mL							
		28.60 g	1 mL							
7 410-83867-B-12 (MFS_IDA)	N/A (410-83867-1)	293.67 g	265.1 mL			5/18/22	10_Days	4	Discolored, Particulate, Vacuum was applied	410-83867-B-12-A
		28.60 g	1 mL							
		28.60 g	1 mL							

Printed: 5/27/2022
 N-Envp C400-DC 2015 5/30/22

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-259821

Method Code: 410-3535_28D-410

Batch Open: 5/27/2022 1:26:00PM

Batch End:

06/03/2022

Batch Notes

pH Indicator ID	
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6666675-01
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	C125996498
Manifold ID	1, 18
Pipette/Syringe/Dispenser ID	P10-9, Syringe 8
Na2SO4 ID	
Solvent Name	.3% NH4OH in MeOH
Solvent Lot #	4072605262233A
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	
Analyst ID - Spike Analyst	DL20084
Analyst ID - Spike Witness Analyst	DC20115
Methanol ID	217031
Milli-Q Reagent Water ID	House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-259821

Method Code: 410-3535_28D-410

Batch Open: 5/27/2022 1:26:00PM

Batch End:

06/03/2022

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210130-058

Batch Comment _____

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-259821

Method Code: 410-3535_28D-410

Batch Oper: 5/27/2022 1:26:00PM

Batch End:

06/03/2022

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-259821/1	PFC_SS_00010	.100 mL	1 mL		
LCS 410-259821/2	PFC_IN_MFS_00024	.100 mL	1 mL		
LCS 410-259821/2	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-6	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-6 MS	PFC_IN_MFS_00024	.100 mL	1 mL		
410-83867-B-6 MS	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-6 MSD	PFC_IN_MFS_00024	.100 mL	1 mL		
410-83867-B-6 MSD	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-10	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-11	PFC_SS_00010	.100 mL	1 mL		
410-83867-B-12	PFC_SS_00010	.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Lugo, Dayanna

Batch Number: 410-259821

Method Code: 410-3535_28D-410

Batch Open: 5/27/2022 1:26:00PM

Batch End:

06/03/2022

Other Reagents:		
Reagent	Amount/Units	Lot#:
Internal Standard	20 ul	PC-15-MOD-00336

DIC - 850 ul MCH (EDU63-US) + 50 ul IS (PC-15-MOD-00336) + 100 ul sample

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-83867-1

SDG No.: _____

Batch Number: 260443 Batch Start Date: 05/31/22 15:13 Batch Analyst: Kruelle, Hannah K

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00009	PFC_INT_ 00009	PFC_IS_MOD 00325	PFC_STD_MFS1 00008	PFC_STD_MFS2 00009	PFC_STD_MFS3 00007
IC 410-260443/1		MFS					200 uL		
IC 410-260443/2		MFS						200 uL	
IC 410-260443/3		MFS							200 uL
IC 410-260443/4		MFS							
ICISAV 410-260443/5		MFS							
IC 410-260443/6		MFS							
IC 410-260443/7		MFS							
ICB 410-260443/8		MFS			10 uL	50 uL			
ICV 410-260443/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00009	PFC_STD_MFS5 00007	PFC_STD_MFS6 00007	PFC_STD_MFS7 00007		
IC 410-260443/1		MFS							
IC 410-260443/2		MFS							
IC 410-260443/3		MFS							
IC 410-260443/4		MFS		200 uL					
ICISAV 410-260443/5		MFS			200 uL				
IC 410-260443/6		MFS				200 uL			
IC 410-260443/7		MFS					200 uL		
ICB 410-260443/8		MFS							
ICV 410-260443/9		MFS							

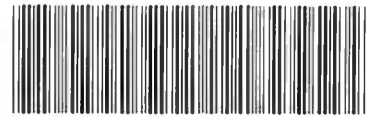
Batch Notes	
Mobil Phase ID	2732105232233A; 2732105232233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record



Client Information		Sampler <i>MJS/AB</i>	Lab PM Zanar, Elizabeth M	410-83867-01 Chain of Custody		JOC No 110-53401-15024.1								
Client Contact <i>Glenn Esler</i>		Phone <i>609-413-6328</i>	E-Mail Elizabeth.Zanar@eurofinset.com			Page Page 1 of <i>X 2</i>								
Company Integral Consulting Inc		PWSID	Analysis Requested			Job #								
Address <i>110 Morfer Ave 023 Haddonfield Road Suite 300 St. 304</i>		Due Date Requested:	<table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Form MSWSD (Yes or No)</td><td></td></tr> <tr><td>BFS_IDA, MFS_IDA</td><td></td></tr> <tr><td>Total Number of Containers</td><td></td></tr> </table>			Field Filtered Sample (Yes or No)		Form MSWSD (Yes or No)		BFS_IDA, MFS_IDA		Total Number of Containers		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Z - other (specify)
Field Filtered Sample (Yes or No)														
Form MSWSD (Yes or No)														
BFS_IDA, MFS_IDA														
Total Number of Containers														
City <i>Moorestown</i>		TAT Requested (days):												
State, Zip NJ- <i>08067</i>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No												
Phone 503-943-3617(Tel)		PO # CF1165 3101 01												
Email <i>glenn.esler@integral-consulting.com</i>		WO #												
Project Name MFS/BFS		Project # 41008576				Special Instructions/Note:								
Site <i>West Deptford, NJ</i>		SSOW#												
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=dross tail oil, BT=Tissue, A=Air)									
				Preservation Code:										
<i>MW-109S</i>		<i>5-10-22</i>	<i>1635</i>	<i>G</i>	<i>Water</i>	<i>N</i>								
<i>MW-109D</i>		<i>↓</i>	<i>1645</i>		<i>Water</i>									
<i>MW-124S</i>		<i>5-11-22</i>	<i>1010</i>		<i>Water</i>									
<i>MW-124D</i>		<i>↓</i>	<i>1010</i>		<i>Water</i>									
<i>MW-106S</i>		<i>↓</i>	<i>1335</i>		<i>Water</i>									
<i>MW-106D</i>		<i>↓</i>	<i>1305</i>		<i>Water</i>									
<i>MS1-05112022</i>		<i>↓</i>	<i>1305</i>		<i>Water</i>	<i>X</i>								
<i>MSD1-05112022</i>		<i>↓</i>	<i>1305</i>		<i>Water</i>									
<i>MS2-05112022</i>		<i>↓</i>	<i>1340</i>		<i>Water</i>									
<i>MSD2-05112022</i>		<i>↓</i>	<i>1345</i>		<i>Water</i>									
<i>DUP1-05112022</i>		<i>↓</i>	<i>↓</i>		<i>Water</i>									
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify) <i>PJDEP Full</i>			Special Instructions/QC Requirements:											
Empty Kit Relinquished by		Date:	Time:	Method of Shipment:										
Relinquished by <i>Frank McElroy</i>		Date/Time <i>4/8/22 11:21</i>	Company <i>ELLERRE</i>	Received by <i>[Signature]</i>		Date/Time <i>5-12-22 13:05</i>								
Relinquished by <i>Anthony Palumbo</i>		Date/Time <i>5/12/22 13:04</i>	Company <i>INTEGRAL</i>	Received by <i>[Signature]</i>		Date/Time <i>5/12/22 11:54</i>								
Relinquished by <i>[Signature]</i>		Date/Time <i>5-12-22 11:54</i>	Company <i>LAN</i>	Received by <i>[Signature]</i>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <i>not present</i>		Cooler Temperature(s) °C and Other Remarks: <i>5.6-5.70C</i>										

JH

Chain of Custody Record

Client Information			Sampler: <i>MJS/AB</i>	Lab PM: Zanar, Elizabeth M	Camer Tracking No(s)	COC No: 410-53401-15024 2																																																																																																																																					
Client Contact: <i>Megan Jones Glenn Ester</i>			Phone: <i>609-413-6328</i>	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin	Page: Page 2 of <i>X 2</i>																																																																																																																																					
Company: Integral Consulting Inc			PWSID	Analysis Requested																																																																																																																																							
Address: <i>923 Haddonfield Road Suite 300 110 Market Ave Cherry Hill, MOORESTOWN NJ 08002 08057</i>			Due Date Requested:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																																																																																																																							
City: <i>Cherry Hill Moorestown</i>			TAT Requested (days): <i>Standard 10-Day</i>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Preservation Codes:</td> <td>A - HCL</td> <td>M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> <td></td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsNaO2</td> <td></td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> <td></td> </tr> <tr> <td>E - NaHSO4</td> <td>Q - Na2SO3</td> <td></td> </tr> <tr> <td>F - MeOH</td> <td>R - Na2S2O3</td> <td></td> </tr> <tr> <td>G - Amchlor</td> <td>S - H2SO4</td> <td></td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Dodecahydrate</td> <td></td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> <td></td> </tr> <tr> <td>J - DI Water</td> <td>V - MCAA</td> <td></td> </tr> <tr> <td>K - EDTA</td> <td>W - pH 4-5</td> <td></td> </tr> <tr> <td>L - EDTA</td> <td>Z - other (specify)</td> <td></td> </tr> </table>			Preservation Codes:	A - HCL	M - Hexane	B - NaOH	N - None		C - Zn Acetate	O - AsNaO2		D - Nitric Acid	P - Na2O4S		E - NaHSO4	Q - Na2SO3		F - MeOH	R - Na2S2O3		G - Amchlor	S - H2SO4		H - Ascorbic Acid	T - TSP Dodecahydrate		I - Ice	U - Acetone		J - DI Water	V - MCAA		K - EDTA	W - pH 4-5		L - EDTA	Z - other (specify)																																																																																																		
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State, Zip: <i>NJ, 08002 08057</i>			Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Job # Other:																																																																																																																																							
Phone: <i>503-943-3617 (Tel)</i>			PO #: <i>CF1165 3101.01</i>																																																																																																																																								
Email: <i>gestler mjeson@integral-corp.com</i>			WO #:	Special Instructions/Note:																																																																																																																																							
Project Name: <i>MFS/BFS</i>			Project #: <i>41008576</i>																																																																																																																																								
Site: <i>West Deptford NJ</i>			SSOW#:																																																																																																																																								

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=Air)	Liquid Filtered Sample (Yes or No)	From MFS (Yes or No)	BFS_IDA	MFS_IDA	Total Number of Containers
<i>DWP2-05112022</i>	<i>5-11-22</i>	<i>---</i>	<i>G</i>	<i>Water</i>					<i>N</i>
<i>EB-05112022</i>	<i>↓</i>	<i>1245</i>	<i>G</i>	<i>Water</i>					
<i>MLW-111S</i>	<i>5-12-22</i>	<i>1035</i>	<i>G</i>	<i>Water</i>					
<i>MLW-111D</i>	<i>↓</i>	<i>1110</i>	<i>G</i>	<i>Water</i>					
<i>EB-05122022</i>	<i>↓</i>	<i>900</i>	<i>G</i>	<i>Water</i>					

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify) <i>USDEP Full</i>		Special Instructions/QC Requirements:	
Empty Kit Relinquished by	Date:	Time:	Method of Shipment:
Relinquished by <i>Anthony Balaroc</i>	Date/Time <i>5/12/22 13134</i>	Company <i>Integral</i>	Received by <i>[Signature]</i> Date/Time <i>5/12/22 1459</i> Company <i>Integral</i>
Relinquished by <i>[Signature]</i>	Date/Time <i>5-12-22 1644</i>	Company <i>Integral</i>	Received by <i>[Signature]</i> Date/Time <i>5/12/22 1459</i> Company <i>Integral</i>
Relinquished by	Date/Time	Company	Received by <i>[Signature]</i> Date/Time <i>5/12/22 1459</i> Company <i>Integral</i>
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Custody Seal No.: <i>not present</i>		Cooler Temperature(s) °C and Other Remarks: <i>5.6-5.70C</i>

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 410-83867-1

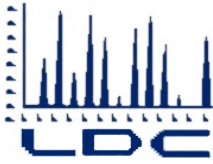
Login Number: 83867

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Renner, Melissa

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Integral Consulting, Inc.
319 SW Washington Street, Suite 1150
Portland, OR 97204
ATTN: Mr. Glenn Esler
gesler@integral-corp.com

August 10, 2022

SUBJECT: CF1165.3101.01 - Data Validation

Dear Mr. Esler

Enclosed is the final validation report for the fraction listed below. This SDG was received on June 6, 2022. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #54351:

<u>SDG #</u>	<u>Fraction</u>
410-83412-1	Bi-functional Surfactants & Mono-functional Surfactants
410-83867-1	

The data verification was performed under Stage 2B guidelines. The analyses were validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan, Solvay Specialty Polymers USA, LLC, 10 Leonard Lane, West Deptford, NJ 08086 (May 2021)
- Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using Environmental Protection Agency (EPA) Method 537 (November 2018)

Please feel free to contact us if you have any questions.

Sincerely,

Stella Cuenco
scuenco@lab-data.com
Project Manager/Senior Chemist

Stage 2B EDD

LDC# 54351 (Integral Consulting, Inc. - Portland, OR / CF1165.31.1.01)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PFAs (537M)		W		S		W		S		W		S		W		S		W		S		W		S		W		S	
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	410-83412-1	06/06/22	06/27/22	12	0																												
B	410-83867-1	06/06/22	06/27/22	12	0																												
Matrix: Water/Soil																																	
Total	T/SC			24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: CF1165.3101.01

LDC Report Date: August 9, 2022

Parameters: Bi-functional Surfactants & Mono-functional Surfactants

Validation Level: Stage 2B

Laboratory: Eurofins, Lancaster, PA

Sample Delivery Group (SDG): 410-83412-1

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-110S	410-83412-1	Water	05/09/22
MW-110D	410-83412-2	Water	05/09/22
MW-112S	410-83412-3	Water	05/09/22
MW-112D	410-83412-4	Water	05/09/22
EB_05092022	410-83412-5	Water	05/09/22
AB_05092022	410-83412-6	Water	05/09/22
MW-109S-PDB	410-83412-7	Water	05/09/22
MW-111S-PDB	410-83412-8	Water	05/09/22
MW-111D-PDB	410-83412-9	Water	05/09/22
MW-101S	410-83412-10	Water	05/10/22
MW-101D	410-83412-11	Water	05/10/22
EB_05102022	410-83412-12	Water	05/10/22

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Quality Assurance Project Plan, Solvay Specialty Polymers USA, LLC, 10 Leonard Lane, West Deptford, NJ 08086 (May 2021) and the Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using Environmental Protection Agency (EPA) Method 537 (November 2018). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Bi-functional Surfactants and Mono-functional Surfactants by ELLE SOP MFS/BFS IDA

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Codes

- 1 Holding Times Exceeded
- 2 Sample Preservation / Cooler Temperature Exceeded Acceptance Criteria
- 3 Sample Custody Potentially Compromised Sample Integrity
- 4 Missing/Incomplete Deliverables
- 5 Calibration Did Not Meet Method Criteria
- 6 Equipment/Field Blank Contamination
- 7 Laboratory Method or Calibration Blank Contamination
- 8 Matrix Spike % Recovery Exceeded Acceptance Criteria
- 9 Matrix Spike Duplicate (RPD or Duplicate Sample Analysis) Exceeded Acceptance Criteria
- 10A Laboratory Control Sample % Recovery Exceeded Acceptance Criteria
- 10B Laboratory Control Sample Duplicate (RPD) Exceeded Acceptance Criteria
- 11 ICP Interference Check Analysis Exceeded Method Criteria
- 12 RPD Between Two Columns (Pesticides/PCBs only)
- 13 Surrogate Recoveries Exceeded Acceptance Criteria
- 14 Field Duplicates RPD Exceeded Project Criteria
- 15 Peak Resolution did not meet method criteria
- 16 Serial Dilution Analysis Exceeded Method Criteria
- 17 Chemical Recoveries Exceeded Acceptance Criteria
- 18 Trip Blank Contamination
- 19 Internal Standards Did Not Meet Method Criteria
- 20 Calibration Range exceeded Method Criteria
- 21 Potential False Positives
- 22 Do not use, other result more technically sound (overall assessment)
- 23 Estimated Maximum Possible Concentration
- 24 Trace Detection Below the LOQ (RL) and Above the DL (MDL)
- 25 Other

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance was checked and the requirements were met.

III. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990.

For each calibration standard, except the lowest point, all analytes were within 70-130% of their true value. For the lowest calibration point, all analytes were within 50-150% of their true value.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all analytes.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all analytes with the following exceptions:

Date	Analyte	%D	Associated Samples	Flag	A or P
05/24/22	MFS_N4	45.9	MW-101D EB_05102022	NA	-

All analyte concentrations were at the limit of quantitation (LOQ) for the ISC standard.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Samples EB_05092022 and EB_05102022 were identified as equipment blanks. No contaminants were found.

Sample AB_05092022 was identified as an ambient blank. No contaminants were found.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
LCS 410-256031/2-A	BFS_A3B2	154 (70-130)	MW-110S MW-109S-PDB MW-111S-PDB MW-111D-PDB	J+ (all detects)	P
LCS 410-256031/2-A	BFS_A3B2	154 (70-130)	MW-110D MW-112S MW-112D EB_05092022 AB_05092022 MW-101S MW-101D EB_05102022	NA	-

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Labeled Compounds

All percent recoveries (%R) for labeled compounds used to quantitate target analytes were within QC limits.

XI. Target Analyte Quantitation

Raw data were not reviewed for Stage 2B validation.

XII. Target Analyte Identification

Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to LCS %R, data were qualified as estimated in four samples.

CF1165.3101.01

Bi-functional Surfactants & Mono-functional Surfactants - Data Qualification Summary - SDG 410-83412-1

Sample	Analyte	Flag	A or P	Reason (Code)
MW-110S MW-109S-PDB MW-111S-PDB MW-111D-PDB	BFS_A3B2	J+ (all detects)	P	Laboratory control samples (%R) (10A)

CF1165.3101.01

Bi-functional Surfactants & Mono-functional Surfactants - Laboratory Blank Data Qualification Summary - SDG 410-83412-1

No Sample Data Qualified in this SDG

CF1165.3101.01

Bi-functional Surfactants & Mono-functional Surfactants - Field Blank Data Qualification Summary - SDG 410-83412-1

No Sample Data Qualified in this SDG

LDC #: 54351A96

VALIDATION COMPLETENESS WORKSHEET

Date: 8/4/22

SDG #: 410-83412-1

Stage 2B

Page: 1 of 2

Laboratory: Eurofins, Lancaster, PA

MFS/BFS by ELLE SOP

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, A	TV = 58/30 10V = 37
IV.	Continuing calibration/ISC	SW/N	D = 30
V.	Laboratory Blanks	A	
V.I	Field blanks	ND	EB = 5, 12 AB = 6
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	SW	LCS
IX.	Field duplicates	N	
X.	Labeled Compounds	A	
XI.	Target analyte quantitation	N	
XII.	Target analyte identification	N	
XIII.	System performance	N	
XIV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank AB = ambient blank

	Client ID	Lab ID	Matrix	Date
1	MW-110S	410-83412-1	Water	05/09/22
2	MW-110D	410-83412-2	Water	05/09/22
3	MW-112S	410-83412-3	Water	05/09/22
4	MW-112D	410-83412-4	Water	05/09/22
5	EB_05092022	410-83412-5	Water	05/09/22
6	AB_05092022	410-83412-6	Water	05/09/22
7	MW-109S-PDB	410-83412-7	Water	05/09/22
8	MW-111S-PDB	410-83412-8	Water	05/09/22
9	MW-111D-PDB	410-83412-9	Water	05/09/22
10	MW-101S	410-83412-10	Water	05/10/22
11	MW-101D	410-83412-11	Water	05/10/22
12	EB_05102022	410-83412-12	Water	05/10/22
13				
14				
15				

LDC #: 54351A96

VALIDATION COMPLETENESS WORKSHEET


Date: 8/1/22


SDG #: 410-83412-1

Stage 2B

Page: 2 of 2

Laboratory: Eurofins, Lancaster, PA

Reviewer: 

2nd Reviewer: 

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

	Client ID	Lab ID	Matrix	Date
16				

Notes:

1	MO 410-256031/1-A			
2	MO 410-256033/1-A			

LDC #: 543C1A90

VALIDATION FINDINGS WORKSHEET

Continuing Calibration/Instrument Sensitivity Check

Page: 1 of 1
Reviewer: [Signature]

METHOD: LC/MS

Continuing calibrations were analyzed prior to sample analysis, after every 10 samples and at the end of the analytical sequence. Instrument sensitivity checks (ISC) were analyzed prior to sample analysis, and every 12 hours. Percent differences (%D) were $\leq 30\%$ or $\leq 50\%$ with the following exception:

#	Date	Standard ID	Analyte	Finding %D (Limit)	Finding RRF (Limit:)	Associated Samples	Qualifications ^(S)
	5/24/22	CCV	MFC-N4	45.9		11, 12 (NB)	J + dhr/A

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

METHOD: LC/MS MFS/BFS by ELLE SOP

LCS percent recoveries (%R) and relative percent difference (RPD) were within the QC limits with the following exceptions:

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	(LOA) Qualifications
		LCS 410-256031/2-A	BFS_A3B2	154 (70-130)			All (10)Dets * (1,7-9)	JF dets / P JF dets / P

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: CF1165.3101.01

LDC Report Date: August 9, 2022

Parameters: Bi-functional Surfactants & Mono-functional Surfactants

Validation Level: Stage 2B

Laboratory: Eurofins, Lancaster, PA

Sample Delivery Group (SDG): 410-83867-1

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
MW-109S	410-83867-1	Water	05/10/22
MW-109D	410-83867-2	Water	05/10/22
MW-124S	410-83867-3	Water	05/11/22
MW-124D	410-83867-4	Water	05/11/22
MW-106S	410-83867-5	Water	05/11/22
MW-106D	410-83867-6	Water	05/11/22
DUP1_05112022	410-83867-7	Water	05/11/22
DUP2_05112022	410-83867-8	Water	05/11/22
EB_05112022	410-83867-9	Water	05/11/22
MW-111S	410-83867-10	Water	05/12/22
MW-111D	410-83867-11	Water	05/12/22
EB_05122022	410-83867-12	Water	05/12/22
MW-106SMS	410-83867-5MS	Water	05/11/22
MW-106SMSD	410-83867-5MSD	Water	05/11/22
MW-106DMS	410-83867-6MS	Water	05/11/22
MW-106DMSD	410-83867-6MSD	Water	05/11/22

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Quality Assurance Project Plan, Solvay Specialty Polymers USA, LLC, 10 Leonard Lane, West Deptford, NJ 08086 (May 2021) and the Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using Environmental Protection Agency (EPA) Method 537 (November 2018). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Bi-functional Surfactants and Mono-functional Surfactants by ELLE SOP MFS/BFS IDA

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Codes

- 1 Holding Times Exceeded
- 2 Sample Preservation / Cooler Temperature Exceeded Acceptance Criteria
- 3 Sample Custody Potentially Compromised Sample Integrity
- 4 Missing/Incomplete Deliverables
- 5 Calibration Did Not Meet Method Criteria
- 6 Equipment/Field Blank Contamination
- 7 Laboratory Method or Calibration Blank Contamination
- 8 Matrix Spike % Recovery Exceeded Acceptance Criteria
- 9 Matrix Spike Duplicate (RPD or Duplicate Sample Analysis) Exceeded Acceptance Criteria
- 10A Laboratory Control Sample % Recovery Exceeded Acceptance Criteria
- 10B Laboratory Control Sample Duplicate (RPD) Exceeded Acceptance Criteria
- 11 ICP Interference Check Analysis Exceeded Method Criteria
- 12 RPD Between Two Columns (Pesticides/PCBs only)
- 13 Surrogate Recoveries Exceeded Acceptance Criteria
- 14 Field Duplicates RPD Exceeded Project Criteria
- 15 Peak Resolution did not meet method criteria
- 16 Serial Dilution Analysis Exceeded Method Criteria
- 17 Chemical Recoveries Exceeded Acceptance Criteria
- 18 Trip Blank Contamination
- 19 Internal Standards Did Not Meet Method Criteria
- 20 Calibration Range exceeded Method Criteria
- 21 Potential False Positives
- 22 Do not use, other result more technically sound (overall assessment)
- 23 Estimated Maximum Possible Concentration
- 24 Trace Detection Below the LOQ (RL) and Above the DL (MDL)
- 25 Other

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance was checked and the requirements were met.

III. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990.

For each calibration standard, except the lowest point, all analytes were within 70-130% of their true value. For the lowest calibration point, all analytes were within 50-150% of their true value.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all analytes.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all analytes with the following exceptions:

Date	Analyte	%D	Associated Samples	Flag	A or P
05/24/22	MFS_N4	45.9	MW-109S MW-109D MW-124S MW-124D	NA	-

All analyte concentrations were at the limit of quantitation (LOQ) for the ISC standard.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Samples EB_05112022 and EB_05122022 were identified as equipment blanks. No contaminants were found.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
MW-106SMS/MSD (MW-106S)	BFS_A2B2 BFS_A2B3 BFS_A3B BFS_A3B2 BFS_A4B BFS_AB2 BFS_AB3 BFS_B3 BFS_B4	214 (70-130) 241 (70-130) 314 (70-130) 253 (70-130) 252 (70-130) 332 (70-130) 280 (70-130) 271 (70-130) 271 (70-130)	236 (70-130) 272 (70-130) 350 (70-130) 274 (70-130) 270 (70-130) 354 (70-130) 282 (70-130) 303 (70-130) 284 (70-130)	NA	-
MW-106SMS/MSD (MW-106S)	MFS_N2	412 (70-130)	377 (70-130)	J+ (all detects)	A
MW-106SMS/MSD (MW-106S)	MFS_M3 MFS_N3 MFS_M4 MFS_N4	225 (70-130) 331 (70-130) 160 (70-130) 154 (70-130)	252 (70-130) 372 (70-130) 178 (70-130) 173 (70-130)	NA	-
MW-106DMS/MSD (MW-106D)	BFS_A2B2 BFS_AB3	151 (70-130) 183 (70-130)	162 (70-130) 195 (70-130)	J+ (all detects) J+ (all detects)	A
MW-106DMS/MSD (MW-106D)	BFS_A2B2 BFS_A2B3 BFS_A3B BFS_A3B2 BFS_A4B BFS_AB2 BFS_B3 BFS_B4	151 (70-130) 177 (70-130) 223 (70-130) 177 (70-130) 176 (70-130) 235 (70-130) 199 (70-130) 178 (70-130)	162 (70-130) 175 (70-130) 240 (70-130) 194 (70-130) 183 (70-130) 244 (70-130) 207 (70-130) 182 (70-130)	NA	-
MW-106DMS/MSD (MW-106D)	MFS_N2 MFS_N3	-40 (70-130) 18 (70-130)	-32 (70-130) 23 (70-130)	J- (all detects) J- (all detects)	A

Relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
LCS 410-256031/2-A	BFS_A3B2	154 (70-130)	MW-109S	J+ (all detects)	P
LCS 410-256031/2-A	BFS_A3B2	154 (70-130)	MW-109D MW-124S MW-124D MW-106S DUP1_05112022 DUP2_05112022 EB_05112022	NA	-
LCS 410-259819/2-A	BFS_A3B2	137 (70-130)	MW-111S MW-111D	J+ (all detects)	P
LCS 410-259819/2-A	BFS_A3B2	137 (70-130)	MW-106D EB_05122022	NA	-

IX. Field Duplicates

Samples MW-106S and DUP2_05112022 and samples MW-106D and DUP1_05112022 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (ng/L)		RPD (Limits)	Flag	A or P
	MW-106S	DUP2_05112022			
MFS_N2	0.75	1.2	46 (≤ 30)	NQ	-
MFS_N3	0.95U	0.40	81 (≤ 30)	NQ	-

Analyte	Concentration (ng/L)		RPD (Limits)	Flag	A or P
	MW-106D	DUP1_05112022			
BFS_A2B2	0.39	0.43	10 (≤ 30)	-	-
BFS_AB3	0.57	0.68	18 (≤ 30)	-	-
MFS_N2	65	77	17 (≤ 30)	-	-
MFS_M3	16	18	12 (≤ 30)	-	-
MFS_N3	40	44	10 (≤ 30)	-	-
MFS_M4	0.85U	0.48	56 (≤ 30)	NQ	-
MFS_M4	1.7U	1.3	27 (≤ 30)	-	-

NQ = One or both results were less than the reporting limit (RL), therefore no data were qualified.

X. Labeled Compounds

All percent recoveries (%R) for labeled compounds used to quantitate target analytes were within QC limits.

XI. Target Analyte Quantitation

Raw data were not reviewed for Stage 2B validation.

XII. Target Analyte Identification

Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and LCS %R, data were qualified as estimated in five samples.

CF1165.3101.01**Bi-functional Surfactants & Mono-functional Surfactants - Data Qualification Summary - SDG 410-83867-1**

Sample	Analyte	Flag	A or P	Reason (Code)
MW-106S	MFS_N2	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
MW-106D	BFS_A2B2 BFS_AB3	J+ (all detects) J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
MW-106D	MFS_N2 MFS_N3	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
MW-109S	BFS_A3B2	J+ (all detects)	P	Laboratory control samples (%R) (10A)
MW-111S MW-111D	BFS_A3B2	J+ (all detects)	P	Laboratory control samples (%R) (10A)

CF1165.3101.01**Bi-functional Surfactants & Mono-functional Surfactants - Laboratory Blank Data Qualification Summary - SDG 410-83867-1**

No Sample Data Qualified in this SDG

CF1165.3101.01**Bi-functional Surfactants & Mono-functional Surfactants - Field Blank Data Qualification Summary - SDG 410-83867-1**

No Sample Data Qualified in this SDG

LDC #: 54351B96

VALIDATION COMPLETENESS WORKSHEET

Date: 8/4/22

SDG #: 410-83867-1

Stage 2B

Page: 1 of 2

Laboratory: Eurofins, Lancaster, PA

Reviewer:

MPS / BFC by ELLE SFP

2nd Reviewer:

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	LC/MS Instrument performance check	X	
III.	Initial calibration/ICV	A/A	R2 TV ≤ 50/30 SC ≤ 30
IV.	Continuing calibration/ISC	SW/N	D ≤ 30
V.	Laboratory Blanks	A	
V.I	Field blanks	ND	EB = 9, 12
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Field duplicates	SW	D = 5+B, 6+7
X.	Labeled Compounds	A	
XI.	Target analyte quantitation	N	
XII.	Target analyte identification	N	
XIII.	System performance	N	
XIV.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-109S	410-83867-1	Water	05/10/22
2	MW-109D	410-83867-2	Water	05/10/22
3	MW-124S	410-83867-3	Water	05/11/22
4	MW-124D	410-83867-4	Water	05/11/22
5	MW-106S	D1 410-83867-5	Water	05/11/22
6	MW-106D	D2 410-83867-6	Water	05/11/22
7	DUP1_05112022	D2 410-83867-7	Water	05/11/22
8	DUP2_05112022	D1 410-83867-8	Water	05/11/22
9	EB_05112022	410-83867-9	Water	05/11/22
10	MW-111S	410-83867-10	Water	05/12/22
11	MW-111D	410-83867-11	Water	05/12/22
12	EB_05122022	410-83867-12	Water	05/12/22
13	MW-106SMS	410-83867-5MS	Water	05/11/22
14	MW-106SMSD	410-83867-5MSD	Water	05/11/22
15	MW-106DMS	410-83867-6MS	Water	05/11/22

LDC #: 54351B96

VALIDATION COMPLETENESS WORKSHEET

Date: 8/4/22

SDG #: 410-83867-1

Stage 2B

Page: 2 of 2

Laboratory: Eurofins, Lancaster, PA

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

	Client ID	Lab ID	Matrix	Date
16	MW-106DMSD	410-83867-6MSD	Water	05/11/22
17				
18				
19				

Notes:

1	MB 410-254031/1-A				
2	MB 410-259819/1-A				
3	MB 410-254033/1-A				
4	MB 410-259821/1-A				

LDC #: 5421396

VALIDATION FINDINGS WORKSHEET

Continuing Calibration/Instrument Sensitivity Check

Page: 1 of 1
 Reviewer: AT

METHOD: LC/MS

Continuing calibrations were analyzed prior to sample analysis, after every 10 samples and at the end of the analytical sequence. Instrument sensitivity checks (ISC) were analyzed prior to sample analysis, and every 12 hours. Percent differences (%D) were $\leq 30\%$ or $\leq 50\%$ with the following exception:

#	Date	Standard ID	Analyte	Finding %D (Limit)	Finding RRF (Limit:)	Associated Samples	Qualifications ⁽⁵⁾
	5/24/22	CCV	MFS-N4	45.9		1-4 (N/G)	Jack/A

VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates

METHOD: LC/MS MFS/BFS by ELLE SOP

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) or duplicate sample analyzed for each matrix in this SDG?
Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?
Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		13/14	BFS_A2B2	214 (70-130)	236 (70-130)		5 (ND)	<i>Handwritten: JMS/A</i>
			BFS_A2B3	241	272			
			BFS_A3B	314	350			
			BFS_A3B2	253	274			
			BFS_A4B	252	270			
			BFS_AB2	332	354			
			BFS_AB3	280	282			
			BFS_B3	271	303			
			BFS_B4	271	284		↓	
			MFS_N2	412	377		(Det)	
			MFS_M3	225	252		(ND)	
			MFS_N3	331	372			
			MFS_M4	160	178			
			MFS_N4	154	173		↓	
		15/16	BFS_A2B2	151	162		6 (Det)	
			BFS_A2B3	177	175		(ND)	
			BFS_A3B	223	240			
			BFS_A3B2	177	194			
			BFS_A4B	176	183			
			BFS_AB2	235	244		↓	
			BFS_AB3	183	195		(Det)	
			BFS_B3	199	207		(ND)	
			BFS_B4	178	182		↓	
			MFS_N2	-40	-32		(Det)	
			MFS_N3	18	23		↓	

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

METHOD: LC/MS MFS/BFS by ELLE SOP

LCS percent recoveries (%R) and relative percent difference (RPD) were within the QC limits with the following exceptions:

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications (10x)
		LCS 410-256031/2-A	BFS_A3B2	154 (70-130)		(1-5, 7-9)	All (W/Def) ^{RPD} (1, 10-4)	Jfduke/P
		LCS 410-259819/2-A	BFS_A3B2	137 (70-130)		(6, 10-12)	↓ (10, 11-24)	↓

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: LC/MS MFS/BFS by ELLE SOP

Y N NA Were field duplicate pairs identified in this SDG?

Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ng/L)		RPD (≤ 30)	Qual. (14)
	5	8		
MFS_N2	0.75	1.2	46	Ind/A NQ
MFS_N3	0.95 U	0.40	81	

Compound	Concentration (ng/L)		RPD (≤ 30)	Qual.
	6	7		
BFS_A2B2	0.39	0.43	10	
BFS_AB3	0.57	0.68	18	
MFS_N2	65	77	17	
MFS_M3	16	18	12	
MFS_N3	40	44	10	
MFS_M4	1.77 2.5 0.85 U 0.85 U	0.48	56	NQ
MFS_N4	2.5 1.7 U	1.3	27	

NQ . < RL

Attachment C

July 2022 Analytical Data and
Validation Report

ANALYTICAL REPORT

Job Number: 410-90323-1

Job Description: MFS/BFS

For:

Integral Consulting Inc
923 Haddonfield Road
Suite 300
Cherry Hill, NJ 08002
Attention: Erin Palko



Approved for release.
Elizabeth M Zanar
Project Manager
9/7/2022 5:24 PM

Elizabeth M Zanar, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7290
Elizabeth.Zanar@et.eurofinsus.com
09/07/2022
Revision: 1

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-90323-1

Job Description: MFS/BFS

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Definitions/Glossary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Qualifiers

LCMS

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-90323-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 8/8/2022. The report (revision 1) is being revised due to: the review of the qualifiers on the MFS and BFS analyses. QC linking was corrected for MFS and data flags revised to reflect this.

Receipt

The samples were received on 7/7/2022 6:59 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 1.6° C.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-112S

Lab Sample ID: 410-90323-1

No Detections.

Client Sample ID: MW-112D

Lab Sample ID: 410-90323-2

No Detections.

Client Sample ID: MW-103S

Lab Sample ID: 410-90323-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_AB2	0.28	J	0.52	0.070	ng/L	1		BFS	Total/NA
BFS_AB3	0.35	J ^2	1.3	0.35	ng/L	1		BFS	Total/NA
MFS_N2	12		0.84	0.17	ng/L	1		MFS	Total/NA
MFS_M3	3.0		0.84	0.17	ng/L	1		MFS	Total/NA
MFS_N3	8.7		0.84	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: FB_070622

Lab Sample ID: 410-90323-4

No Detections.

Client Sample ID: EB_070622

Lab Sample ID: 410-90323-5

No Detections.

Client Sample ID: DUP1_070622

Lab Sample ID: 410-90323-6

No Detections.

Client Sample ID: MW-106D

Lab Sample ID: 410-90323-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	8.8		0.80	0.16	ng/L	1		MFS	Total/NA
MFS_M3	2.8		0.80	0.16	ng/L	1		MFS	Total/NA
MFS_N3	12		0.80	0.16	ng/L	1		MFS	Total/NA

Client Sample ID: MW-106S

Lab Sample ID: 410-90323-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	2.2		0.93	0.19	ng/L	1		MFS	Total/NA
MFS_N3	0.45	J	0.93	0.19	ng/L	1		MFS	Total/NA
MFS_N4	1.1	J	1.9	0.93	ng/L	1		MFS	Total/NA

Client Sample ID: MW-103D

Lab Sample ID: 410-90323-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	11		1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	1.6		0.53	0.18	ng/L	1		BFS	Total/NA
BFS_A3B2	2.1		0.71	0.18	ng/L	1		BFS	Total/NA
BFS_A4B	0.92		0.35	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	1.6		0.53	0.071	ng/L	1		BFS	Total/NA
BFS_AB3	12	^2	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	5.4		0.62	0.26	ng/L	1		BFS	Total/NA
BFS_B4	2.7		0.97	0.35	ng/L	1		BFS	Total/NA
MFS_N2	5.1		0.81	0.16	ng/L	1		MFS	Total/NA
MFS_M3	0.87		0.81	0.16	ng/L	1		MFS	Total/NA
MFS_N3	4.4		0.81	0.16	ng/L	1		MFS	Total/NA
MFS_M4	0.42	J	0.81	0.40	ng/L	1		MFS	Total/NA
MFS_N4	0.86	J	1.6	0.81	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-113D

Lab Sample ID: 410-90323-10

No Detections.

Client Sample ID: MW-113S

Lab Sample ID: 410-90323-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	0.91	J	0.94	0.19	ng/L	1		MFS	Total/NA

Client Sample ID: DUP1_070722

Lab Sample ID: 410-90323-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	8.1		0.89	0.18	ng/L	1		MFS	Total/NA
MFS_M3	2.3		0.89	0.18	ng/L	1		MFS	Total/NA
MFS_N3	10		0.89	0.18	ng/L	1		MFS	Total/NA

Client Sample ID: EB_070722

Lab Sample ID: 410-90323-13

No Detections.

Client Sample ID: DUP2_070722

Lab Sample ID: 410-90323-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	3.7		0.82	0.16	ng/L	1		MFS	Total/NA

Client Sample ID: MW-102S

Lab Sample ID: 410-90323-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	4.3		0.81	0.16	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-112S

Lab Sample ID: 410-90323-1

Date Collected: 07/06/22 13:35

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	F1	1.2	0.33	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_A2B3	ND	F1	0.92	0.33	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_A3B	ND	F1	0.50	0.17	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_A3B2	ND	F1	0.67	0.17	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_A4B	ND	F1	0.33	0.17	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_AB2	ND	F1	0.50	0.067	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_AB3	ND	F1	1.2	0.33	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_B3	ND	F1	0.58	0.25	ng/L		07/19/22 09:29	07/27/22 21:59	1
BFS_B4	ND	F1	0.92	0.33	ng/L		07/19/22 09:29	07/27/22 21:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 150				07/19/22 09:29	07/27/22 21:59	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.84	0.17	ng/L		07/19/22 09:31	07/28/22 08:08	1
MFS_M3	ND		0.84	0.17	ng/L		07/19/22 09:31	07/28/22 08:08	1
MFS_N3	ND		0.84	0.17	ng/L		07/19/22 09:31	07/28/22 08:08	1
MFS_M4	ND		0.84	0.42	ng/L		07/19/22 09:31	07/28/22 08:08	1
MFS_N4	ND		1.7	0.84	ng/L		07/19/22 09:31	07/28/22 08:08	1
MFS_N5	ND		2.5	1.7	ng/L		07/19/22 09:31	07/28/22 08:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	118		50 - 150				07/19/22 09:31	07/28/22 08:08	1

Client Sample ID: MW-112D

Lab Sample ID: 410-90323-2

Date Collected: 07/06/22 15:25

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	F1	1.1	0.32	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_A2B3	ND	F1	0.89	0.32	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_A3B	ND	F1	0.49	0.16	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_A3B2	ND	F1	0.65	0.16	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_A4B	ND	F1	0.32	0.16	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_AB2	ND	F1	0.49	0.065	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_AB3	ND	F1	1.2	0.32	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_B3	ND	F1	0.57	0.24	ng/L		07/19/22 09:34	07/27/22 23:27	1
BFS_B4	ND	F1	0.89	0.32	ng/L		07/19/22 09:34	07/27/22 23:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 150				07/19/22 09:34	07/27/22 23:27	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.85	0.17	ng/L		07/22/22 12:46	07/25/22 21:48	1
MFS_M3	ND		0.85	0.17	ng/L		07/22/22 12:46	07/25/22 21:48	1
MFS_N3	ND		0.85	0.17	ng/L		07/22/22 12:46	07/25/22 21:48	1
MFS_M4	ND	F1	0.85	0.42	ng/L		07/22/22 12:46	07/25/22 21:48	1
MFS_N4	ND	F2 F1	1.7	0.85	ng/L		07/22/22 12:46	07/25/22 21:48	1
MFS_N5	ND	F1 F2	2.5	1.7	ng/L		07/22/22 12:46	07/25/22 21:48	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-112D

Lab Sample ID: 410-90323-2

Date Collected: 07/06/22 15:25

Matrix: Water

Date Received: 07/07/22 18:59

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	120		50 - 150	07/22/22 12:46	07/25/22 21:48	1

Client Sample ID: MW-103S

Lab Sample ID: 410-90323-3

Date Collected: 07/06/22 14:35

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_A2B3	ND		0.96	0.35	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_A3B	ND		0.52	0.17	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_A3B2	ND		0.70	0.17	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_A4B	ND		0.35	0.17	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_AB2	0.28	J	0.52	0.070	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_AB3	0.35	J ^2	1.3	0.35	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_B3	ND		0.61	0.26	ng/L		07/19/22 09:34	07/28/22 00:05	1
BFS_B4	ND		0.96	0.35	ng/L		07/19/22 09:34	07/28/22 00:05	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	89		50 - 150	07/19/22 09:34	07/28/22 00:05	1			

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	12		0.84	0.17	ng/L		07/22/22 12:46	07/25/22 22:25	1
MFS_M3	3.0		0.84	0.17	ng/L		07/22/22 12:46	07/25/22 22:25	1
MFS_N3	8.7		0.84	0.17	ng/L		07/22/22 12:46	07/25/22 22:25	1
MFS_M4	ND		0.84	0.42	ng/L		07/22/22 12:46	07/25/22 22:25	1
MFS_N4	ND		1.7	0.84	ng/L		07/22/22 12:46	07/25/22 22:25	1
MFS_N5	ND		2.5	1.7	ng/L		07/22/22 12:46	07/25/22 22:25	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	98		50 - 150	07/22/22 12:46	07/25/22 22:25	1			

Client Sample ID: FB_070622

Lab Sample ID: 410-90323-4

Date Collected: 07/06/22 14:30

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_A2B3	ND		0.96	0.35	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_A3B	ND		0.52	0.17	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_A3B2	ND		0.70	0.17	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_A4B	ND		0.35	0.17	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_AB2	ND		0.52	0.070	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_AB3	ND		1.3	0.35	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_B3	ND		0.61	0.26	ng/L		07/19/22 09:34	07/28/22 00:17	1
BFS_B4	ND		0.96	0.35	ng/L		07/19/22 09:34	07/28/22 00:17	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	113		50 - 150	07/19/22 09:34	07/28/22 00:17	1			

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: FB_070622

Lab Sample ID: 410-90323-4

Date Collected: 07/06/22 14:30

Matrix: Water

Date Received: 07/07/22 18:59

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.91	0.18	ng/L		07/22/22 12:46	07/25/22 22:38	1
MFS_M3	ND		0.91	0.18	ng/L		07/22/22 12:46	07/25/22 22:38	1
MFS_N3	ND		0.91	0.18	ng/L		07/22/22 12:46	07/25/22 22:38	1
MFS_M4	ND		0.91	0.45	ng/L		07/22/22 12:46	07/25/22 22:38	1
MFS_N4	ND		1.8	0.91	ng/L		07/22/22 12:46	07/25/22 22:38	1
MFS_N5	ND		2.7	1.8	ng/L		07/22/22 12:46	07/25/22 22:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 150				07/22/22 12:46	07/25/22 22:38	1

Client Sample ID: EB_070622

Lab Sample ID: 410-90323-5

Date Collected: 07/06/22 14:35

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.3	0.37	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_A2B3	ND		1.0	0.37	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_A3B	ND		0.56	0.19	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_A3B2	ND		0.74	0.19	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_A4B	ND		0.37	0.19	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_AB2	ND		0.56	0.074	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_AB3	ND		1.4	0.37	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_B3	ND		0.65	0.28	ng/L		07/19/22 09:34	07/28/22 00:30	1
BFS_B4	ND		1.0	0.37	ng/L		07/19/22 09:34	07/28/22 00:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	108		50 - 150				07/19/22 09:34	07/28/22 00:30	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.90	0.18	ng/L		07/22/22 12:46	07/25/22 22:51	1
MFS_M3	ND		0.90	0.18	ng/L		07/22/22 12:46	07/25/22 22:51	1
MFS_N3	ND		0.90	0.18	ng/L		07/22/22 12:46	07/25/22 22:51	1
MFS_M4	ND		0.90	0.45	ng/L		07/22/22 12:46	07/25/22 22:51	1
MFS_N4	ND		1.8	0.90	ng/L		07/22/22 12:46	07/25/22 22:51	1
MFS_N5	ND		2.7	1.8	ng/L		07/22/22 12:46	07/25/22 22:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	113		50 - 150				07/22/22 12:46	07/25/22 22:51	1

Client Sample ID: DUP1_070622

Lab Sample ID: 410-90323-6

Date Collected: 07/06/22 00:00

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.1	0.32	ng/L		07/19/22 09:34	07/28/22 00:42	1
BFS_A2B3	ND		0.89	0.32	ng/L		07/19/22 09:34	07/28/22 00:42	1
BFS_A3B	ND		0.48	0.16	ng/L		07/19/22 09:34	07/28/22 00:42	1
BFS_A3B2	ND		0.65	0.16	ng/L		07/19/22 09:34	07/28/22 00:42	1
BFS_A4B	ND		0.32	0.16	ng/L		07/19/22 09:34	07/28/22 00:42	1
BFS_AB2	ND		0.48	0.065	ng/L		07/19/22 09:34	07/28/22 00:42	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: DUP1_070622

Lab Sample ID: 410-90323-6

Date Collected: 07/06/22 00:00

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_AB3	ND		1.2	0.32	ng/L		07/19/22 09:34	07/28/22 00:42	1
BFS_B3	ND		0.57	0.24	ng/L		07/19/22 09:34	07/28/22 00:42	1
BFS_B4	ND		0.89	0.32	ng/L		07/19/22 09:34	07/28/22 00:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	112		50 - 150				07/19/22 09:34	07/28/22 00:42	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.85	0.17	ng/L		07/22/22 12:46	07/25/22 23:03	1
MFS_M3	ND		0.85	0.17	ng/L		07/22/22 12:46	07/25/22 23:03	1
MFS_N3	ND		0.85	0.17	ng/L		07/22/22 12:46	07/25/22 23:03	1
MFS_M4	ND		0.85	0.43	ng/L		07/22/22 12:46	07/25/22 23:03	1
MFS_N4	ND		1.7	0.85	ng/L		07/22/22 12:46	07/25/22 23:03	1
MFS_N5	ND		2.6	1.7	ng/L		07/22/22 12:46	07/25/22 23:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	117		50 - 150				07/22/22 12:46	07/25/22 23:03	1

Client Sample ID: MW-106D

Lab Sample ID: 410-90323-7

Date Collected: 07/07/22 11:20

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	F1	1.1	0.32	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_A2B3	ND	F1	0.89	0.32	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_A3B	ND	F1	0.48	0.16	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_A3B2	ND	F1	0.64	0.16	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_A4B	ND	F1	0.32	0.16	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_AB2	ND	F1	0.48	0.064	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_AB3	ND	F1	1.2	0.32	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_B3	ND	F1	0.56	0.24	ng/L		07/19/22 09:26	07/27/22 20:29	1
BFS_B4	ND	F1	0.89	0.32	ng/L		07/19/22 09:26	07/27/22 20:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		50 - 150				07/19/22 09:26	07/27/22 20:29	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	8.8		0.80	0.16	ng/L		07/22/22 12:47	07/25/22 20:19	1
MFS_M3	2.8		0.80	0.16	ng/L		07/22/22 12:47	07/25/22 20:19	1
MFS_N3	12		0.80	0.16	ng/L		07/22/22 12:47	07/25/22 20:19	1
MFS_M4	ND		0.80	0.40	ng/L		07/22/22 12:47	07/25/22 20:19	1
MFS_N4	ND		1.6	0.80	ng/L		07/22/22 12:47	07/25/22 20:19	1
MFS_N5	ND		2.4	1.6	ng/L		07/22/22 12:47	07/25/22 20:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 150				07/22/22 12:47	07/25/22 20:19	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-106S

Lab Sample ID: 410-90323-8

Date Collected: 07/07/22 11:35

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	F1	1.2	0.35	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_A2B3	ND	F1	0.96	0.35	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_A3B	ND	F1	0.52	0.17	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_A3B2	ND	F1	0.70	0.17	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_A4B	ND	F1	0.35	0.17	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_AB2	ND	F1	0.52	0.070	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_AB3	ND	F1	1.3	0.35	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_B3	ND	F1	0.61	0.26	ng/L		07/19/22 09:28	07/27/22 17:46	1
BFS_B4	ND	F1	0.96	0.35	ng/L		07/19/22 09:28	07/27/22 17:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	82		50 - 150				07/19/22 09:28	07/27/22 17:46	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	2.2		0.93	0.19	ng/L		07/22/22 12:49	07/28/22 05:24	1
MFS_M3	ND		0.93	0.19	ng/L		07/22/22 12:49	07/28/22 05:24	1
MFS_N3	0.45	J	0.93	0.19	ng/L		07/22/22 12:49	07/28/22 05:24	1
MFS_M4	ND		0.93	0.46	ng/L		07/22/22 12:49	07/28/22 05:24	1
MFS_N4	1.1	J	1.9	0.93	ng/L		07/22/22 12:49	07/28/22 05:24	1
MFS_N5	ND		2.8	1.9	ng/L		07/22/22 12:49	07/28/22 05:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	110		50 - 150				07/22/22 12:49	07/28/22 05:24	1

Client Sample ID: MW-103D

Lab Sample ID: 410-90323-9

Date Collected: 07/07/22 10:30

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	11		1.2	0.35	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_A2B3	ND		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_A3B	1.6		0.53	0.18	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_A3B2	2.1		0.71	0.18	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_A4B	0.92		0.35	0.18	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_AB2	1.6		0.53	0.071	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_AB3	12	^2	1.3	0.35	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_B3	5.4		0.62	0.26	ng/L		07/19/22 09:28	07/27/22 18:24	1
BFS_B4	2.7		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 18:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	84		50 - 150				07/19/22 09:28	07/27/22 18:24	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	5.1		0.81	0.16	ng/L		07/22/22 12:49	07/28/22 06:02	1
MFS_M3	0.87		0.81	0.16	ng/L		07/22/22 12:49	07/28/22 06:02	1
MFS_N3	4.4		0.81	0.16	ng/L		07/22/22 12:49	07/28/22 06:02	1
MFS_M4	0.42	J	0.81	0.40	ng/L		07/22/22 12:49	07/28/22 06:02	1
MFS_N4	0.86	J	1.6	0.81	ng/L		07/22/22 12:49	07/28/22 06:02	1
MFS_N5	ND		2.4	1.6	ng/L		07/22/22 12:49	07/28/22 06:02	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-103D

Lab Sample ID: 410-90323-9

Date Collected: 07/07/22 10:30

Matrix: Water

Date Received: 07/07/22 18:59

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 150	07/22/22 12:49	07/28/22 06:02	1

Client Sample ID: MW-113D

Lab Sample ID: 410-90323-10

Date Collected: 07/07/22 13:30

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.1	0.32	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_A2B3	ND		0.88	0.32	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_A3B	ND		0.48	0.16	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_A3B2	ND		0.64	0.16	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_A4B	ND		0.32	0.16	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_AB2	ND		0.48	0.064	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_AB3	ND		1.2	0.32	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_B3	ND		0.56	0.24	ng/L		07/19/22 09:28	07/27/22 18:36	1
BFS_B4	ND		0.88	0.32	ng/L		07/19/22 09:28	07/27/22 18:36	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	95		50 - 150	07/19/22 09:28	07/27/22 18:36	1			

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.84	0.17	ng/L		07/22/22 12:49	07/28/22 06:15	1
MFS_M3	ND		0.84	0.17	ng/L		07/22/22 12:49	07/28/22 06:15	1
MFS_N3	ND		0.84	0.17	ng/L		07/22/22 12:49	07/28/22 06:15	1
MFS_M4	ND		0.84	0.42	ng/L		07/22/22 12:49	07/28/22 06:15	1
MFS_N4	ND		1.7	0.84	ng/L		07/22/22 12:49	07/28/22 06:15	1
MFS_N5	ND		2.5	1.7	ng/L		07/22/22 12:49	07/28/22 06:15	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	100		50 - 150	07/22/22 12:49	07/28/22 06:15	1			

Client Sample ID: MW-113S

Lab Sample ID: 410-90323-11

Date Collected: 07/07/22 15:25

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.34	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_A2B3	ND		0.94	0.34	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_A3B	ND		0.51	0.17	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_A3B2	ND		0.68	0.17	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_A4B	ND		0.34	0.17	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_AB2	ND		0.51	0.068	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_AB3	ND		1.3	0.34	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_B3	ND		0.60	0.26	ng/L		07/19/22 09:28	07/27/22 18:49	1
BFS_B4	ND		0.94	0.34	ng/L		07/19/22 09:28	07/27/22 18:49	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	96		50 - 150	07/19/22 09:28	07/27/22 18:49	1			

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-113S

Lab Sample ID: 410-90323-11

Date Collected: 07/07/22 15:25

Matrix: Water

Date Received: 07/07/22 18:59

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	0.91	J	0.94	0.19	ng/L		07/22/22 12:49	07/28/22 06:27	1
MFS_M3	ND		0.94	0.19	ng/L		07/22/22 12:49	07/28/22 06:27	1
MFS_N3	ND		0.94	0.19	ng/L		07/22/22 12:49	07/28/22 06:27	1
MFS_M4	ND		0.94	0.47	ng/L		07/22/22 12:49	07/28/22 06:27	1
MFS_N4	ND		1.9	0.94	ng/L		07/22/22 12:49	07/28/22 06:27	1
MFS_N5	ND		2.8	1.9	ng/L		07/22/22 12:49	07/28/22 06:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	112		50 - 150				07/22/22 12:49	07/28/22 06:27	1

Client Sample ID: DUP1_070722

Lab Sample ID: 410-90323-12

Date Collected: 07/07/22 00:00

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_A2B3	ND		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_A3B	ND		0.53	0.18	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_A3B2	ND		0.71	0.18	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_A4B	ND		0.35	0.18	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_AB2	ND		0.53	0.071	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_AB3	ND		1.3	0.35	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_B3	ND		0.62	0.26	ng/L		07/19/22 09:28	07/27/22 19:01	1
BFS_B4	ND		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 19:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 150				07/19/22 09:28	07/27/22 19:01	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	8.1		0.89	0.18	ng/L		07/22/22 12:49	07/28/22 06:40	1
MFS_M3	2.3		0.89	0.18	ng/L		07/22/22 12:49	07/28/22 06:40	1
MFS_N3	10		0.89	0.18	ng/L		07/22/22 12:49	07/28/22 06:40	1
MFS_M4	ND		0.89	0.45	ng/L		07/22/22 12:49	07/28/22 06:40	1
MFS_N4	ND		1.8	0.89	ng/L		07/22/22 12:49	07/28/22 06:40	1
MFS_N5	ND		2.7	1.8	ng/L		07/22/22 12:49	07/28/22 06:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	109		50 - 150				07/22/22 12:49	07/28/22 06:40	1

Client Sample ID: EB_070722

Lab Sample ID: 410-90323-13

Date Collected: 07/07/22 12:05

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/19/22 09:28	07/27/22 19:14	1
BFS_A2B3	ND		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 19:14	1
BFS_A3B	ND		0.53	0.18	ng/L		07/19/22 09:28	07/27/22 19:14	1
BFS_A3B2	ND		0.71	0.18	ng/L		07/19/22 09:28	07/27/22 19:14	1
BFS_A4B	ND		0.35	0.18	ng/L		07/19/22 09:28	07/27/22 19:14	1
BFS_AB2	ND		0.53	0.071	ng/L		07/19/22 09:28	07/27/22 19:14	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: EB_070722

Lab Sample ID: 410-90323-13

Date Collected: 07/07/22 12:05

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_AB3	ND		1.3	0.35	ng/L		07/19/22 09:28	07/27/22 19:14	1
BFS_B3	ND		0.62	0.26	ng/L		07/19/22 09:28	07/27/22 19:14	1
BFS_B4	ND		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 19:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 150				07/19/22 09:28	07/27/22 19:14	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.95	0.19	ng/L		07/22/22 12:49	07/28/22 06:52	1
MFS_M3	ND		0.95	0.19	ng/L		07/22/22 12:49	07/28/22 06:52	1
MFS_N3	ND		0.95	0.19	ng/L		07/22/22 12:49	07/28/22 06:52	1
MFS_M4	ND		0.95	0.48	ng/L		07/22/22 12:49	07/28/22 06:52	1
MFS_N4	ND		1.9	0.95	ng/L		07/22/22 12:49	07/28/22 06:52	1
MFS_N5	ND		2.9	1.9	ng/L		07/22/22 12:49	07/28/22 06:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	119		50 - 150				07/22/22 12:49	07/28/22 06:52	1

Client Sample ID: DUP2_070722

Lab Sample ID: 410-90323-14

Date Collected: 07/07/22 00:00

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_A2B3	ND		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_A3B	ND		0.53	0.18	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_A3B2	ND		0.70	0.18	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_A4B	ND		0.35	0.18	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_AB2	ND		0.53	0.070	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_AB3	ND		1.3	0.35	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_B3	ND		0.62	0.26	ng/L		07/19/22 09:28	07/27/22 19:27	1
BFS_B4	ND		0.97	0.35	ng/L		07/19/22 09:28	07/27/22 19:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 150				07/19/22 09:28	07/27/22 19:27	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	3.7		0.82	0.16	ng/L		07/22/22 12:49	07/28/22 07:05	1
MFS_M3	ND		0.82	0.16	ng/L		07/22/22 12:49	07/28/22 07:05	1
MFS_N3	ND		0.82	0.16	ng/L		07/22/22 12:49	07/28/22 07:05	1
MFS_M4	ND		0.82	0.41	ng/L		07/22/22 12:49	07/28/22 07:05	1
MFS_N4	ND		1.6	0.82	ng/L		07/22/22 12:49	07/28/22 07:05	1
MFS_N5	ND		2.5	1.6	ng/L		07/22/22 12:49	07/28/22 07:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	125		50 - 150				07/22/22 12:49	07/28/22 07:05	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-102S

Lab Sample ID: 410-90323-15

Date Collected: 07/07/22 15:40

Matrix: Water

Date Received: 07/07/22 18:59

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	F1	1.2	0.34	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_A2B3	ND	F1	0.95	0.34	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_A3B	ND	F1	0.52	0.17	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_A3B2	ND	F1	0.69	0.17	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_A4B	ND	F1	0.34	0.17	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_AB2	ND	F1	0.52	0.069	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_AB3	ND	F1	1.3	0.34	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_B3	ND	F1	0.60	0.26	ng/L		07/19/22 09:33	07/28/22 01:47	1
BFS_B4	ND	F1	0.95	0.34	ng/L		07/19/22 09:33	07/28/22 01:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>13C3 HFPO-DA</i>	91		50 - 150				07/19/22 09:33	07/28/22 01:47	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	4.3		0.81	0.16	ng/L		07/26/22 09:35	08/05/22 12:56	1
MFS_M3	ND		0.81	0.16	ng/L		07/26/22 09:35	08/05/22 12:56	1
MFS_N3	ND		0.81	0.16	ng/L		07/26/22 09:35	08/05/22 12:56	1
MFS_M4	ND		0.81	0.41	ng/L		07/26/22 09:35	08/05/22 12:56	1
MFS_N4	ND		1.6	0.81	ng/L		07/26/22 09:35	08/05/22 12:56	1
MFS_N5	ND		2.4	1.6	ng/L		07/26/22 09:35	08/05/22 12:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>13C3 HFPO-DA</i>	108		50 - 150				07/26/22 09:35	08/05/22 12:56	1

Default Detection Limits

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
BFS_A2B2	1.4	0.40	ng/L
BFS_A2B3	1.1	0.40	ng/L
BFS_A3B	0.60	0.20	ng/L
BFS_A3B2	0.80	0.20	ng/L
BFS_A4B	0.40	0.20	ng/L
BFS_AB2	0.60	0.080	ng/L
BFS_AB3	1.5	0.40	ng/L
BFS_B3	0.70	0.30	ng/L
BFS_B4	1.1	0.40	ng/L

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
MFS_M3	1.0	0.20	ng/L
MFS_M4	1.0	0.50	ng/L
MFS_N2	1.0	0.20	ng/L
MFS_N3	1.0	0.20	ng/L
MFS_N4	2.0	1.0	ng/L
MFS_N5	3.0	2.0	ng/L

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	HFPODA (50-150)			
410-90323-1	MW-112S	101			
410-90323-1 MS	MW-112S_MS	113			
410-90323-1 MSD	MW-112S_MSD	108			
410-90323-2	MW-112D	102			
410-90323-2 MS	MW-112D_MS	92			
410-90323-2 MSD	MW-112D_MSD	94			
410-90323-3	MW-103S	89			
410-90323-4	FB_070622	113			
410-90323-5	EB_070622	108			
410-90323-6	DUP1_070622	112			
410-90323-7	MW-106D	97			
410-90323-7 MS	MW-106D_MS	95			
410-90323-7 MSD	MW-106D_MSD	96			
410-90323-8	MW-106S	82			
410-90323-8 MS	MW-106S_MS	82			
410-90323-8 MSD	MW-106S_MSD	83			
410-90323-9	MW-103D	84			
410-90323-10	MW-113D	95			
410-90323-11	MW-113S	96			
410-90323-12	DUP1_070722	91			
410-90323-13	EB_070722	101			
410-90323-14	DUP2_070722	101			
410-90323-15	MW-102S	91			
410-90323-15 MS	MW-102S_MS	98			
410-90323-15 MSD	MW-102SMSD	98			
LCS 410-277007/2-A	Lab Control Sample	103			
LCS 410-277008/2-A	Lab Control Sample	102			
LCS 410-277011/2-A	Lab Control Sample	99			
LCS 410-277013/2-A	Lab Control Sample	101			
LCS 410-277014/2-A	Lab Control Sample	106			
MB 410-277007/1-A	Method Blank	99			
MB 410-277008/1-A	Method Blank	105			
MB 410-277011/1-A	Method Blank	103			
MB 410-277013/1-A	Method Blank	94			
MB 410-277014/1-A	Method Blank	99			
Surrogate Legend					
HFPODA = 13C3 HFPO-DA					

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	HFPODA (50-150)			
410-90323-1	MW-112S	118			
410-90323-1 MS	MW-112S_MS	116			
410-90323-1 MSD	MW-112S_MSD	123			
410-90323-2	MW-112D	120			
410-90323-2 MS	MW-112D_MS	97			

Isotope Dilution Summary

Client: Integral Consulting Inc
 Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

**HFPODA
(50-150)**

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-90323-2 MSD	MW-112D_MSD	103
410-90323-3	MW-103S	98
410-90323-4	FB_070622	102
410-90323-5	EB_070622	113
410-90323-6	DUP1_070622	117
410-90323-7	MW-106D	101
410-90323-7 MS	MW-106D_MS	103
410-90323-7 MSD	MW-106D_MSD	97
410-90323-8	MW-106S	110
410-90323-8 MS	MW-106S_MS	106
410-90323-8 MSD	MW-106S_MSD	89
410-90323-9	MW-103D	104
410-90323-10	MW-113D	100
410-90323-11	MW-113S	112
410-90323-12	DUP1_070722	109
410-90323-13	EB_070722	119
410-90323-14	DUP2_070722	125
410-90323-15	MW-102S	108
410-90323-15 MS	MW-102S_MS	105
410-90323-15 MSD	MW-102SMSD	98
LCS 410-277012/2-A	Lab Control Sample	122
LCS 410-278614/2-A	Lab Control Sample	110
LCS 410-278617/2-A	Lab Control Sample	106
LCS 410-278618/2-A	Lab Control Sample	105
LCS 410-279532/2-A	Lab Control Sample	89
MB 410-277012/1-A	Method Blank	118
MB 410-278614/1-A	Method Blank	96
MB 410-278617/1-A	Method Blank	104
MB 410-278618/1-A	Method Blank	109
MB 410-279532/1-A	Method Blank	85

Surrogate Legend

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-277007/1-A
Matrix: Water
Analysis Batch: 280078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 277007

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_A3B	ND		0.60	0.20	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_A4B	ND		0.40	0.20	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_AB2	ND		0.60	0.080	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_AB3	ND		1.5	0.40	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_B3	ND		0.70	0.30	ng/L		07/19/22 09:26	07/27/22 20:04	1
BFS_B4	ND		1.1	0.40	ng/L		07/19/22 09:26	07/27/22 20:04	1
		MB MB	Limits			D	Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier							
13C3 HFPO-DA	99		50 - 150				07/19/22 09:26	07/27/22 20:04	1

Lab Sample ID: LCS 410-277007/2-A
Matrix: Water
Analysis Batch: 280078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B3	4.72	4.57		ng/L		97	70 - 130	
BFS_A3B	35.8	36.8		ng/L		103	70 - 130	
BFS_A3B2	47.2	49.8		ng/L		106	70 - 130	
BFS_A4B	19.8	21.1		ng/L		106	70 - 130	
BFS_AB2	32.1	35.5		ng/L		111	70 - 130	
BFS_AB3	268	285		ng/L		106	70 - 130	
BFS_B3	114	127		ng/L		111	70 - 130	
BFS_B4	62.2	65.2		ng/L		105	70 - 130	
		LCS LCS	Limits			D	%Rec	Limits
Isotope Dilution	%Recovery	Qualifier						
13C3 HFPO-DA	103		50 - 150					

Lab Sample ID: 410-90323-7 MS
Matrix: Water
Analysis Batch: 280078

Client Sample ID: MW-106D_MS
Prep Type: Total/NA
Prep Batch: 277007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B3	ND	F1	4.11	8.23	F1	ng/L		200	70 - 130	
BFS_A3B	ND	F1	31.2	72.4	F1	ng/L		232	70 - 130	
BFS_A3B2	ND	F1	41.1	86.0	F1	ng/L		209	70 - 130	
BFS_A4B	ND	F1	17.3	39.1	F1	ng/L		226	70 - 130	
BFS_AB2	ND	F1	28.0	69.3	F1	ng/L		248	70 - 130	
BFS_AB3	ND	F1	234	479	F1	ng/L		205	70 - 130	
BFS_B3	ND	F1	99.5	248	F1	ng/L		250	70 - 130	
BFS_B4	ND	F1	54.3	107	F1	ng/L		197	70 - 130	
		MS MS	Limits			D	%Rec	Limits		
Isotope Dilution	%Recovery	Qualifier								
13C3 HFPO-DA	95		50 - 150							

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90323-7 MSD

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-106D_MSD

Prep Type: Total/NA

Prep Batch: 277007

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
BFS_A2B2	ND	F1	225	518	F1	ng/L		230	70 - 130	0	30	
BFS_A2B3	ND	F1	4.25	8.33	F1	ng/L		196	70 - 130	1	30	
BFS_A3B	ND	F1	32.3	75.0	F1	ng/L		232	70 - 130	4	30	
BFS_A3B2	ND	F1	42.5	87.5	F1	ng/L		206	70 - 130	2	30	
BFS_A4B	ND	F1	17.9	39.3	F1	ng/L		220	70 - 130	0	30	
BFS_AB2	ND	F1	28.9	67.1	F1	ng/L		232	70 - 130	3	30	
BFS_AB3	ND	F1	241	489	F1	ng/L		202	70 - 130	2	30	
BFS_B3	ND	F1	103	248	F1	ng/L		241	70 - 130	0	30	
BFS_B4	ND	F1	56.1	118	F1	ng/L		210	70 - 130	9	30	
			MSD	MSD								
			%Recovery	Qualifier	Limits							
<i>Isotope Dilution</i>			96		50 - 150							
13C3 HFPO-DA												

Lab Sample ID: MB 410-277008/1-A

Matrix: Water

Analysis Batch: 280078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 277008

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
BFS_A2B2	ND		1.4	0.40	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_A2B3	ND		1.1	0.40	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_A3B	ND		0.60	0.20	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_A3B2	ND		0.80	0.20	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_A4B	ND		0.40	0.20	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_AB2	ND		0.60	0.080	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_AB3	ND		1.5	0.40	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_B3	ND		0.70	0.30	ng/L		07/19/22 09:28	07/27/22 17:21	1	
BFS_B4	ND		1.1	0.40	ng/L		07/19/22 09:28	07/27/22 17:21	1	
			MB	MB						
			%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>Isotope Dilution</i>			105		50 - 150	07/19/22 09:28	07/27/22 17:21	1		
13C3 HFPO-DA										

Lab Sample ID: LCS 410-277008/2-A

Matrix: Water

Analysis Batch: 280078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 277008

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec		
		Result	Qualifier				Limits	RPD	
BFS_A2B2	250	248		ng/L		99	70 - 130		
BFS_A2B3	4.72	4.68		ng/L		99	70 - 130		
BFS_A3B	35.8	35.4		ng/L		99	70 - 130		
BFS_A3B2	47.2	48.5		ng/L		103	70 - 130		
BFS_A4B	19.8	20.6		ng/L		104	70 - 130		
BFS_AB2	32.1	33.7		ng/L		105	70 - 130		
BFS_AB3	268	277		ng/L		103	70 - 130		
BFS_B3	114	118		ng/L		103	70 - 130		
BFS_B4	62.2	62.2		ng/L		100	70 - 130		
			LCS	LCS					
			%Recovery	Qualifier	Limits				
<i>Isotope Dilution</i>			102		50 - 150				
13C3 HFPO-DA									

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90323-8 MS

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-106S_MS

Prep Type: Total/NA

Prep Batch: 277008

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
BFS_A2B2	ND	F1	214	645	F1	ng/L		301		70 - 130
BFS_A2B3	ND	F1	4.04	10.8	F1	ng/L		269		70 - 130
BFS_A3B	ND	F1	30.7	93.0	F1	ng/L		303		70 - 130
BFS_A3B2	ND	F1	40.4	114	F1	ng/L		283		70 - 130
BFS_A4B	ND	F1	16.9	51.6	F1	ng/L		305		70 - 130
BFS_AB2	ND	F1	27.4	88.5	F1	ng/L		323		70 - 130
BFS_AB3	ND	F1	229	650	F1	ng/L		284		70 - 130
BFS_B3	ND	F1	97.7	286	F1	ng/L		293		70 - 130
BFS_B4	ND	F1	53.3	153	F1	ng/L		286		70 - 130
		MS	MS							
Isotope Dilution	%Recovery	Qualifier	Limits							
13C3 HFPO-DA	82		50 - 150							

Lab Sample ID: 410-90323-8 MSD

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-106S_MSD

Prep Type: Total/NA

Prep Batch: 277008

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
BFS_A2B2	ND	F1	236	730	F1	ng/L		310		70 - 130	12	30
BFS_A2B3	ND	F1	4.44	11.8	F1	ng/L		265		70 - 130	8	30
BFS_A3B	ND	F1	33.8	105	F1	ng/L		309		70 - 130	12	30
BFS_A3B2	ND	F1	44.4	125	F1	ng/L		282		70 - 130	9	30
BFS_A4B	ND	F1	18.7	59.0	F1	ng/L		316		70 - 130	13	30
BFS_AB2	ND	F1	30.2	103	F1	ng/L		339		70 - 130	15	30
BFS_AB3	ND	F1	252	725	F1	ng/L		287		70 - 130	11	30
BFS_B3	ND	F1	108	317	F1	ng/L		294		70 - 130	10	30
BFS_B4	ND	F1	58.7	156	F1	ng/L		267		70 - 130	3	30
		MSD	MSD									
Isotope Dilution	%Recovery	Qualifier	Limits									
13C3 HFPO-DA	83		50 - 150									

Lab Sample ID: MB 410-277011/1-A

Matrix: Water

Analysis Batch: 280078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 277011

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_A3B	ND		0.60	0.20	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_A4B	ND		0.40	0.20	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_AB2	ND		0.60	0.080	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_AB3	ND		1.5	0.40	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_B3	ND		0.70	0.30	ng/L		07/19/22 09:29	07/27/22 21:34	1
BFS_B4	ND		1.1	0.40	ng/L		07/19/22 09:29	07/27/22 21:34	1
		MB	MB						
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	103		50 - 150	07/19/22 09:29	07/27/22 21:34	1			

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: LCS 410-277011/2-A

Matrix: Water

Analysis Batch: 280078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 277011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		
							Limits		
BFS_A2B2	250	263		ng/L		105	70 - 130		
BFS_A2B3	4.72	4.35		ng/L		92	70 - 130		
BFS_A3B	35.8	35.8		ng/L		100	70 - 130		
BFS_A3B2	47.2	51.2		ng/L		109	70 - 130		
BFS_A4B	19.8	21.4		ng/L		108	70 - 130		
BFS_AB2	32.1	32.7		ng/L		102	70 - 130		
BFS_AB3	268	281		ng/L		105	70 - 130		
BFS_B3	114	124		ng/L		109	70 - 130		
BFS_B4	62.2	66.9		ng/L		107	70 - 130		
		LCS	LCS						
Isotope Dilution		%Recovery	Qualifier	Limits					
13C3 HFPO-DA		99		50 - 150					

Lab Sample ID: 410-90323-1 MS

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-112S_MS

Prep Type: Total/NA

Prep Batch: 277011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
BFS_A2B2	ND	F1	204	332	F1	ng/L		163	70 - 130	
BFS_A2B3	ND	F1	3.85	4.91		ng/L		128	70 - 130	
BFS_A3B	ND	F1	29.2	52.9	F1	ng/L		181	70 - 130	
BFS_A3B2	ND	F1	38.5	57.8	F1	ng/L		150	70 - 130	
BFS_A4B	ND	F1	16.2	25.8	F1	ng/L		160	70 - 130	
BFS_AB2	ND	F1	26.2	51.1	F1	ng/L		195	70 - 130	
BFS_AB3	ND	F1	219	314	F1	ng/L		144	70 - 130	
BFS_B3	ND	F1	93.1	166	F1	ng/L		179	70 - 130	
BFS_B4	ND	F1	50.8	70.2	F1	ng/L		138	70 - 130	
		MS	MS							
Isotope Dilution		%Recovery	Qualifier	Limits						
13C3 HFPO-DA		113		50 - 150						

Lab Sample ID: 410-90323-1 MSD

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-112S_MSD

Prep Type: Total/NA

Prep Batch: 277011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
BFS_A2B2	ND	F1	220	362	F1	ng/L		165	70 - 130	9	30	
BFS_A2B3	ND	F1	4.15	6.07	F1	ng/L		146	70 - 130	21	30	
BFS_A3B	ND	F1	31.6	60.3	F1	ng/L		191	70 - 130	13	30	
BFS_A3B2	ND	F1	41.5	62.3	F1	ng/L		150	70 - 130	8	30	
BFS_A4B	ND	F1	17.4	27.7	F1	ng/L		159	70 - 130	7	30	
BFS_AB2	ND	F1	28.2	56.1	F1	ng/L		199	70 - 130	9	30	
BFS_AB3	ND	F1	236	365	F1	ng/L		155	70 - 130	15	30	
BFS_B3	ND	F1	101	179	F1	ng/L		178	70 - 130	7	30	
BFS_B4	ND	F1	54.8	84.7	F1	ng/L		154	70 - 130	19	30	
		MSD	MSD									
Isotope Dilution		%Recovery	Qualifier	Limits								
13C3 HFPO-DA		108		50 - 150								

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: MB 410-277013/1-A
Matrix: Water
Analysis Batch: 280078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 277013

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	1.01	J	1.4	0.40	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_A3B	ND		0.60	0.20	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_A4B	ND		0.40	0.20	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_AB2	ND		0.60	0.080	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_AB3	1.14	J	1.5	0.40	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_B3	ND		0.70	0.30	ng/L		07/19/22 09:33	07/28/22 01:20	1
BFS_B4	ND		1.1	0.40	ng/L		07/19/22 09:33	07/28/22 01:20	1
MB MB									
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C3 HFPO-DA	94		50 - 150			07/19/22 09:33	07/28/22 01:20	1	

Lab Sample ID: LCS 410-277013/2-A
Matrix: Water
Analysis Batch: 280078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B2	250	251		ng/L		101		70 - 130
BFS_A2B3	4.72	4.41		ng/L		93		70 - 130
BFS_A3B	35.8	35.7		ng/L		100		70 - 130
BFS_A3B2	47.2	49.1		ng/L		104		70 - 130
BFS_A4B	19.8	20.7		ng/L		104		70 - 130
BFS_AB2	32.1	31.5		ng/L		98		70 - 130
BFS_AB3	268	271		ng/L		101		70 - 130
BFS_B3	114	120		ng/L		105		70 - 130
BFS_B4	62.2	61.3		ng/L		98		70 - 130
LCS LCS								
Isotope Dilution	%Recovery	Qualifier	Limits					
13C3 HFPO-DA	101		50 - 150					

Lab Sample ID: 410-90323-15 MS
Matrix: Water
Analysis Batch: 280078

Client Sample ID: MW-102S_MS
Prep Type: Total/NA
Prep Batch: 277013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B2	ND	F1	214	342	F1	ng/L		160		70 - 130
BFS_A2B3	ND	F1	4.04	5.59	F1	ng/L		138		70 - 130
BFS_A3B	ND	F1	30.7	56.8	F1	ng/L		185		70 - 130
BFS_A3B2	ND	F1	40.4	58.2	F1	ng/L		144		70 - 130
BFS_A4B	ND	F1	17.0	26.4	F1	ng/L		155		70 - 130
BFS_AB2	ND	F1	27.5	54.9	F1	ng/L		200		70 - 130
BFS_AB3	ND	F1	230	337	F1	ng/L		147		70 - 130
BFS_B3	ND	F1	97.8	181	F1	ng/L		185		70 - 130
BFS_B4	ND	F1	53.3	73.2	F1	ng/L		137		70 - 130
MS MS										
Isotope Dilution	%Recovery	Qualifier	Limits							
13C3 HFPO-DA	98		50 - 150							

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90323-15 MSD

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-102SMSD

Prep Type: Total/NA

Prep Batch: 277013

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
BFS_A2B2	ND	F1	197	289	F1	ng/L		147	70 - 130	17	30	
BFS_A2B3	ND	F1	3.71	4.23		ng/L		114	70 - 130	28	30	
BFS_A3B	ND	F1	28.2	44.9	F1	ng/L		159	70 - 130	23	30	
BFS_A3B2	ND	F1	37.1	47.2		ng/L		127	70 - 130	21	30	
BFS_A4B	ND	F1	15.6	22.1	F1	ng/L		142	70 - 130	18	30	
BFS_AB2	ND	F1	25.2	45.5	F1	ng/L		180	70 - 130	19	30	
BFS_AB3	ND	F1	211	288	F1	ng/L		137	70 - 130	16	30	
BFS_B3	ND	F1	89.7	146	F1	ng/L		163	70 - 130	21	30	
BFS_B4	ND	F1	48.9	57.9		ng/L		118	70 - 130	23	30	
			MSD	MSD								
			%Recovery	Qualifier	Limits							
Isotope Dilution			98		50 - 150							
13C3 HFPO-DA												

Lab Sample ID: MB 410-277014/1-A

Matrix: Water

Analysis Batch: 280078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 277014

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_A3B	ND		0.60	0.20	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_A4B	ND		0.40	0.20	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_AB2	ND		0.60	0.080	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_AB3	ND		1.5	0.40	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_B3	ND		0.70	0.30	ng/L		07/19/22 09:34	07/27/22 23:02	1
BFS_B4	ND		1.1	0.40	ng/L		07/19/22 09:34	07/27/22 23:02	1
			MB	MB					
Isotope Dilution			%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
13C3 HFPO-DA			99		50 - 150	07/19/22 09:34	07/27/22 23:02	1	

Lab Sample ID: LCS 410-277014/2-A

Matrix: Water

Analysis Batch: 280078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 277014

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
BFS_A2B2	250	259		ng/L		103	70 - 130	
BFS_A2B3	4.72	4.64		ng/L		98	70 - 130	
BFS_A3B	35.8	35.5		ng/L		99	70 - 130	
BFS_A3B2	47.2	46.9		ng/L		99	70 - 130	
BFS_A4B	19.8	20.8		ng/L		105	70 - 130	
BFS_AB2	32.1	34.1		ng/L		106	70 - 130	
BFS_AB3	268	276		ng/L		103	70 - 130	
BFS_B3	114	119		ng/L		104	70 - 130	
BFS_B4	62.2	61.1		ng/L		98	70 - 130	
			LCS	LCS				
Isotope Dilution			%Recovery	Qualifier	Limits			
13C3 HFPO-DA			106		50 - 150			

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90323-2 MS

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-112D_MS

Prep Type: Total/NA

Prep Batch: 277014

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits	
	Result	Qualifier		Result	Qualifier						
BFS_A2B2	ND	F1	219	476	F1	ng/L		217		70 - 130	
BFS_A2B3	ND	F1	4.14	6.93	F1	ng/L		168		70 - 130	
BFS_A3B	ND	F1	31.4	69.0	F1	ng/L		219		70 - 130	
BFS_A3B2	ND	F1	41.4	80.1	F1	ng/L		194		70 - 130	
BFS_A4B	ND	F1	17.4	37.4	F1	ng/L		215		70 - 130	
BFS_AB2	ND	F1	28.1	66.1	F1	ng/L		235		70 - 130	
BFS_AB3	ND	F1	235	458	F1	ng/L		195		70 - 130	
BFS_B3	ND	F1	100	235	F1	ng/L		235		70 - 130	
BFS_B4	ND	F1	54.6	107	F1	ng/L		196		70 - 130	
		MS	MS								
Isotope Dilution		%Recovery	Qualifier	Limits							
13C3 HFPO-DA		92		50 - 150							

Lab Sample ID: 410-90323-2 MSD

Matrix: Water

Analysis Batch: 280078

Client Sample ID: MW-112D_MSD

Prep Type: Total/NA

Prep Batch: 277014

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
BFS_A2B2	ND	F1	198	457	F1	ng/L		231		70 - 130	4	30
BFS_A2B3	ND	F1	3.74	7.04	F1	ng/L		188		70 - 130	2	30
BFS_A3B	ND	F1	28.4	68.5	F1	ng/L		241		70 - 130	1	30
BFS_A3B2	ND	F1	37.4	75.7	F1	ng/L		203		70 - 130	6	30
BFS_A4B	ND	F1	15.7	33.8	F1	ng/L		215		70 - 130	10	30
BFS_AB2	ND	F1	25.4	62.3	F1	ng/L		245		70 - 130	6	30
BFS_AB3	ND	F1	212	436	F1	ng/L		205		70 - 130	5	30
BFS_B3	ND	F1	90.4	219	F1	ng/L		242		70 - 130	7	30
BFS_B4	ND	F1	49.3	99.0	F1	ng/L		201		70 - 130	8	30
		MSD	MSD									
Isotope Dilution		%Recovery	Qualifier	Limits								
13C3 HFPO-DA		94		50 - 150								

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-277012/1-A

Matrix: Water

Analysis Batch: 280074

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 277012

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		07/19/22 09:31	07/28/22 07:43	1
MFS_M3	ND		1.0	0.20	ng/L		07/19/22 09:31	07/28/22 07:43	1
MFS_N3	ND		1.0	0.20	ng/L		07/19/22 09:31	07/28/22 07:43	1
MFS_M4	ND		1.0	0.50	ng/L		07/19/22 09:31	07/28/22 07:43	1
MFS_N4	ND		2.0	1.0	ng/L		07/19/22 09:31	07/28/22 07:43	1
MFS_N5	ND		3.0	2.0	ng/L		07/19/22 09:31	07/28/22 07:43	1
		MB	MB						
Isotope Dilution		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
13C3 HFPO-DA		118		50 - 150		07/19/22 09:31	07/28/22 07:43	1	

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: LCS 410-277012/2-A
Matrix: Water
Analysis Batch: 280074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277012

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
MFS_N2	38.6	37.9		ng/L		98	70 - 130	
MFS_M3	39.4	38.1		ng/L		97	70 - 130	
MFS_N3	40.1	38.2		ng/L		95	70 - 130	
MFS_M4	39.3	37.3		ng/L		95	70 - 130	
MFS_N4	39.8	35.3		ng/L		89	70 - 130	
MFS_N5	40.4	39.4		ng/L		97	70 - 130	
		LCS	LCS					
Isotope Dilution		%Recovery	Qualifier	Limits				
13C3 HFPO-DA		122		50 - 150				

Lab Sample ID: 410-90323-1 MS
Matrix: Water
Analysis Batch: 280443

Client Sample ID: MW-112S_MS
Prep Type: Total/NA
Prep Batch: 277012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	
MFS_N2	ND		32.2	31.0		ng/L		96	70 - 130	
MFS_M3	ND		32.9	34.6		ng/L		105	70 - 130	
MFS_N3	ND		33.5	35.5		ng/L		106	70 - 130	
MFS_M4	ND		32.8	33.7		ng/L		103	70 - 130	
MFS_N4	ND		33.3	35.0		ng/L		105	70 - 130	
MFS_N5	ND		33.8	34.8		ng/L		103	70 - 130	
		MS	MS							
Isotope Dilution		%Recovery	Qualifier	Limits						
13C3 HFPO-DA		116		50 - 150						

Lab Sample ID: 410-90323-1 MSD
Matrix: Water
Analysis Batch: 280443

Client Sample ID: MW-112S_MSD
Prep Type: Total/NA
Prep Batch: 277012

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits		RPD	Limit
MFS_N2	ND		32.5	30.5		ng/L		94	70 - 130	2	30	
MFS_M3	ND		33.2	32.3		ng/L		98	70 - 130	7	30	
MFS_N3	ND		33.7	32.5		ng/L		97	70 - 130	9	30	
MFS_M4	ND		33.1	31.8		ng/L		96	70 - 130	6	30	
MFS_N4	ND		33.5	33.0		ng/L		98	70 - 130	6	30	
MFS_N5	ND		34.0	32.3		ng/L		95	70 - 130	7	30	
		MSD	MSD									
Isotope Dilution		%Recovery	Qualifier	Limits								
13C3 HFPO-DA		123		50 - 150								

Lab Sample ID: MB 410-278614/1-A
Matrix: Water
Analysis Batch: 279218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278614

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		07/22/22 12:46	07/25/22 21:23	1
MFS_M3	ND		1.0	0.20	ng/L		07/22/22 12:46	07/25/22 21:23	1
MFS_N3	ND		1.0	0.20	ng/L		07/22/22 12:46	07/25/22 21:23	1
MFS_M4	ND		1.0	0.50	ng/L		07/22/22 12:46	07/25/22 21:23	1

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: MB 410-278614/1-A
Matrix: Water
Analysis Batch: 279218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278614

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N4	ND		2.0	1.0	ng/L		07/22/22 12:46	07/25/22 21:23	1
MFS_N5	ND		3.0	2.0	ng/L		07/22/22 12:46	07/25/22 21:23	1
Isotope Dilution		MB MB		Limits	Prepared		Analyzed		Dil Fac
		%Recovery	Qualifier						
13C3 HFPO-DA		96		50 - 150	07/22/22 12:46		07/25/22 21:23		1

Lab Sample ID: LCS 410-278614/2-A
Matrix: Water
Analysis Batch: 280074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
MFS_N2	38.6	38.3		ng/L		99	70 - 130	
MFS_M3	39.4	36.7		ng/L		93	70 - 130	
MFS_N3	40.1	35.6		ng/L		89	70 - 130	
MFS_M4	39.3	33.7		ng/L		86	70 - 130	
MFS_N4	39.8	33.1		ng/L		83	70 - 130	
MFS_N5	40.4	36.1		ng/L		89	70 - 130	
Isotope Dilution		LCS LCS		Limits	Prepared		Analyzed	
		%Recovery	Qualifier					
13C3 HFPO-DA		110		50 - 150				

Lab Sample ID: 410-90323-2 MS
Matrix: Water
Analysis Batch: 280074

Client Sample ID: MW-112D_MS
Prep Type: Total/NA
Prep Batch: 278614

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
MFS_N2	ND		30.9	29.3		ng/L		95	70 - 130	
MFS_M3	ND		31.6	29.2		ng/L		93	70 - 130	
MFS_N3	ND		32.1	30.5		ng/L		95	70 - 130	
MFS_M4	ND	F1	31.5	24.3		ng/L		77	70 - 130	
MFS_N4	ND	F2 F1	31.9	23.5		ng/L		74	70 - 130	
MFS_N5	ND	F1 F2	32.4	17.4	F1	ng/L		54	70 - 130	
Isotope Dilution		MS MS		Limits	Prepared		Analyzed			
		%Recovery	Qualifier							
13C3 HFPO-DA		97		50 - 150						

Lab Sample ID: 410-90323-2 MSD
Matrix: Water
Analysis Batch: 280074

Client Sample ID: MW-112D_MSD
Prep Type: Total/NA
Prep Batch: 278614

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
MFS_N2	ND		30.6	29.9		ng/L		98	70 - 130	2	30	
MFS_M3	ND		31.2	29.4		ng/L		94	70 - 130	1	30	
MFS_N3	ND		31.8	29.8		ng/L		94	70 - 130	2	30	
MFS_M4	ND	F1	31.1	19.7	F1	ng/L		63	70 - 130	21	30	
MFS_N4	ND	F2 F1	31.6	16.6	F1 F2	ng/L		53	70 - 130	34	30	
MFS_N5	ND	F1 F2	32.0	6.25	F1 F2	ng/L		20	70 - 130	94	30	

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	103		50 - 150

Lab Sample ID: MB 410-278617/1-A
Matrix: Water
Analysis Batch: 279218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278617

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		07/22/22 12:47	07/25/22 19:54	1
MFS_M3	ND		1.0	0.20	ng/L		07/22/22 12:47	07/25/22 19:54	1
MFS_N3	ND		1.0	0.20	ng/L		07/22/22 12:47	07/25/22 19:54	1
MFS_M4	ND		1.0	0.50	ng/L		07/22/22 12:47	07/25/22 19:54	1
MFS_N4	ND		2.0	1.0	ng/L		07/22/22 12:47	07/25/22 19:54	1
MFS_N5	ND		3.0	2.0	ng/L		07/22/22 12:47	07/25/22 19:54	1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 HFPO-DA	104		50 - 150	07/22/22 12:47	07/25/22 19:54	1

Lab Sample ID: LCS 410-278617/2-A
Matrix: Water
Analysis Batch: 279218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278617

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
MFS_N2	38.6	39.0		ng/L		101	70 - 130
MFS_M3	39.4	38.9		ng/L		99	70 - 130
MFS_N3	40.1	37.7		ng/L		94	70 - 130
MFS_M4	39.3	36.6		ng/L		93	70 - 130
MFS_N4	39.8	35.5		ng/L		89	70 - 130
MFS_N5	40.4	34.3		ng/L		85	70 - 130

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	106		50 - 150

Lab Sample ID: 410-90323-7 MS
Matrix: Water
Analysis Batch: 279218

Client Sample ID: MW-106D_MS
Prep Type: Total/NA
Prep Batch: 278617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
MFS_N2	8.8		31.1	41.0		ng/L		103	70 - 130
MFS_M3	2.8		31.8	38.8		ng/L		113	70 - 130
MFS_N3	12		32.3	49.3		ng/L		115	70 - 130
MFS_M4	ND		31.7	33.2		ng/L		105	70 - 130
MFS_N4	ND		32.1	31.9		ng/L		99	70 - 130
MFS_N5	ND		32.6	24.5		ng/L		75	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	103		50 - 150

Lab Sample ID: 410-90323-7 MSD
Matrix: Water
Analysis Batch: 280074

Client Sample ID: MW-106D_MSD
Prep Type: Total/NA
Prep Batch: 278617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
MFS_N2	8.8		33.3	40.4		ng/L		95	70 - 130	1	30

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90323-7 MSD

Matrix: Water

Analysis Batch: 280074

Client Sample ID: MW-106D_MSD

Prep Type: Total/NA

Prep Batch: 278617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MFS_M3	2.8		34.0	37.0		ng/L		101	70 - 130	5	30
MFS_N3	12		34.5	46.3		ng/L		99	70 - 130	6	30
MFS_M4	ND		33.9	33.8		ng/L		100	70 - 130	2	30
MFS_N4	ND		34.3	32.4		ng/L		94	70 - 130	2	30
MFS_N5	ND		34.8	28.7		ng/L		82	70 - 130	16	30

Isotope Dilution	%Recovery	MSD Qualifier	MSD Limits
13C3 HFPO-DA	97		50 - 150

Lab Sample ID: MB 410-278618/1-A

Matrix: Water

Analysis Batch: 280074

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 278618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		1.0	0.20	ng/L		07/22/22 12:49	07/28/22 04:59	1
MFS_M3	ND		1.0	0.20	ng/L		07/22/22 12:49	07/28/22 04:59	1
MFS_N3	ND		1.0	0.20	ng/L		07/22/22 12:49	07/28/22 04:59	1
MFS_M4	ND		1.0	0.50	ng/L		07/22/22 12:49	07/28/22 04:59	1
MFS_N4	ND		2.0	1.0	ng/L		07/22/22 12:49	07/28/22 04:59	1
MFS_N5	ND		3.0	2.0	ng/L		07/22/22 12:49	07/28/22 04:59	1

Isotope Dilution	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	109		50 - 150	07/22/22 12:49	07/28/22 04:59	1

Lab Sample ID: LCS 410-278618/2-A

Matrix: Water

Analysis Batch: 280443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 278618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_N2	38.6	39.0		ng/L		101	70 - 130
MFS_M3	39.4	39.0		ng/L		99	70 - 130
MFS_N3	40.1	40.3		ng/L		101	70 - 130
MFS_M4	39.3	37.9		ng/L		97	70 - 130
MFS_N4	39.8	37.2		ng/L		94	70 - 130
MFS_N5	40.4	39.9		ng/L		99	70 - 130

Isotope Dilution	%Recovery	LCS Qualifier	LCS Limits
13C3 HFPO-DA	105		50 - 150

Lab Sample ID: 410-90323-8 MS

Matrix: Water

Analysis Batch: 280443

Client Sample ID: MW-106S_MS

Prep Type: Total/NA

Prep Batch: 278618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_N2	2.2		33.1	36.4		ng/L		104	70 - 130
MFS_M3	ND		33.8	34.5		ng/L		102	70 - 130
MFS_N3	0.45	J	34.4	41.3		ng/L		119	70 - 130
MFS_M4	ND		33.7	42.4		ng/L		126	70 - 130
MFS_N4	1.1	J	34.2	41.0		ng/L		117	70 - 130

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90323-8 MS
Matrix: Water
Analysis Batch: 280443

Client Sample ID: MW-106S_MS
Prep Type: Total/NA
Prep Batch: 278618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_N5	ND		34.7	27.3		ng/L		79	70 - 130
MS MS									
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	106		50 - 150						

Lab Sample ID: 410-90323-8 MSD
Matrix: Water
Analysis Batch: 280443

Client Sample ID: MW-106S_MSD
Prep Type: Total/NA
Prep Batch: 278618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MFS_N2	2.2		33.2	36.3		ng/L		103	70 - 130	0	30
MFS_M3	ND		33.9	33.2		ng/L		98	70 - 130	4	30
MFS_N3	0.45	J	34.5	39.7		ng/L		114	70 - 130	4	30
MFS_M4	ND		33.8	39.4		ng/L		117	70 - 130	7	30
MFS_N4	1.1	J	34.3	37.9		ng/L		107	70 - 130	8	30
MFS_N5	ND		34.8	33.3		ng/L		96	70 - 130	20	30
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
13C3 HFPO-DA	89		50 - 150								

Lab Sample ID: MB 410-279532/1-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_M3	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N3	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_M4	ND		1.0	0.50	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N4	ND		2.0	1.0	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N5	ND		3.0	2.0	ng/L		07/26/22 09:35	08/05/22 12:31	1
MB MB									
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	85		50 - 150	07/26/22 09:35	08/05/22 12:31	1			

Lab Sample ID: LCS 410-279532/2-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_N2	38.6	41.7		ng/L		108	70 - 130
MFS_M3	39.4	42.4		ng/L		108	70 - 130
MFS_N3	40.1	40.3		ng/L		101	70 - 130
MFS_M4	39.3	42.0		ng/L		107	70 - 130
MFS_N4	39.8	41.7		ng/L		105	70 - 130
MFS_N5	40.4	41.7		ng/L		103	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	89		50 - 150				

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90323-15 MS

Matrix: Water

Analysis Batch: 283250

Client Sample ID: MW-102S_MS

Prep Type: Total/NA

Prep Batch: 279532

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
MFS_N2	4.3		31.9	31.8		ng/L		86		70 - 130
MFS_M3	ND		32.6	28.2		ng/L		87		70 - 130
MFS_N3	ND		33.1	29.4		ng/L		89		70 - 130
MFS_M4	ND		32.5	30.6		ng/L		94		70 - 130
MFS_N4	ND		32.9	31.4		ng/L		95		70 - 130
MFS_N5	ND		33.4	27.4		ng/L		82		70 - 130

<i>MS MS</i>	
<i>Isotope Dilution</i>	<i>%Recovery Qualifier Limits</i>
13C3 HFPO-DA	105 50 - 150

Lab Sample ID: 410-90323-15 MSD

Matrix: Water

Analysis Batch: 283250

Client Sample ID: MW-102SMSD

Prep Type: Total/NA

Prep Batch: 279532

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
MFS_N2	4.3		32.9	36.0		ng/L		96		70 - 130	12	30
MFS_M3	ND		33.6	35.6		ng/L		106		70 - 130	23	30
MFS_N3	ND		34.2	36.7		ng/L		107		70 - 130	22	30
MFS_M4	ND		33.5	33.7		ng/L		101		70 - 130	10	30
MFS_N4	ND		34.0	35.1		ng/L		103		70 - 130	11	30
MFS_N5	ND		34.5	32.1		ng/L		93		70 - 130	16	30

<i>MSD MSD</i>	
<i>Isotope Dilution</i>	<i>%Recovery Qualifier Limits</i>
13C3 HFPO-DA	98 50 - 150

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

LCMS

Prep Batch: 277007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-7	MW-106D	Total/NA	Water	3535	
MB 410-277007/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-277007/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-7 MS	MW-106D_MS	Total/NA	Water	3535	
410-90323-7 MSD	MW-106D_MSD	Total/NA	Water	3535	

Prep Batch: 277008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-8	MW-106S	Total/NA	Water	3535	
410-90323-9	MW-103D	Total/NA	Water	3535	
410-90323-10	MW-113D	Total/NA	Water	3535	
410-90323-11	MW-113S	Total/NA	Water	3535	
410-90323-12	DUP1_070722	Total/NA	Water	3535	
410-90323-13	EB_070722	Total/NA	Water	3535	
410-90323-14	DUP2_070722	Total/NA	Water	3535	
MB 410-277008/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-277008/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-8 MS	MW-106S_MS	Total/NA	Water	3535	
410-90323-8 MSD	MW-106S_MSD	Total/NA	Water	3535	

Prep Batch: 277011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-1	MW-112S	Total/NA	Water	3535	
MB 410-277011/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-277011/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-1 MS	MW-112S_MS	Total/NA	Water	3535	
410-90323-1 MSD	MW-112S_MSD	Total/NA	Water	3535	

Prep Batch: 277012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-1	MW-112S	Total/NA	Water	3535	
MB 410-277012/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-277012/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-1 MS	MW-112S_MS	Total/NA	Water	3535	
410-90323-1 MSD	MW-112S_MSD	Total/NA	Water	3535	

Prep Batch: 277013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-15	MW-102S	Total/NA	Water	3535	
MB 410-277013/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-277013/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-15 MS	MW-102S_MS	Total/NA	Water	3535	
410-90323-15 MSD	MW-102SMSD	Total/NA	Water	3535	

Prep Batch: 277014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-2	MW-112D	Total/NA	Water	3535	
410-90323-3	MW-103S	Total/NA	Water	3535	
410-90323-4	FB_070622	Total/NA	Water	3535	
410-90323-5	EB_070622	Total/NA	Water	3535	
410-90323-6	DUP1_070622	Total/NA	Water	3535	

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

LCMS (Continued)

Prep Batch: 277014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-277014/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-277014/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-2 MS	MW-112D_MS	Total/NA	Water	3535	
410-90323-2 MSD	MW-112D_MSD	Total/NA	Water	3535	

Prep Batch: 278614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-2	MW-112D	Total/NA	Water	3535	
410-90323-3	MW-103S	Total/NA	Water	3535	
410-90323-4	FB_070622	Total/NA	Water	3535	
410-90323-5	EB_070622	Total/NA	Water	3535	
410-90323-6	DUP1_070622	Total/NA	Water	3535	
MB 410-278614/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-278614/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-2 MS	MW-112D_MS	Total/NA	Water	3535	
410-90323-2 MSD	MW-112D_MSD	Total/NA	Water	3535	

Prep Batch: 278617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-7	MW-106D	Total/NA	Water	3535	
MB 410-278617/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-278617/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-7 MS	MW-106D_MS	Total/NA	Water	3535	
410-90323-7 MSD	MW-106D_MSD	Total/NA	Water	3535	

Prep Batch: 278618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-8	MW-106S	Total/NA	Water	3535	
410-90323-9	MW-103D	Total/NA	Water	3535	
410-90323-10	MW-113D	Total/NA	Water	3535	
410-90323-11	MW-113S	Total/NA	Water	3535	
410-90323-12	DUP1_070722	Total/NA	Water	3535	
410-90323-13	EB_070722	Total/NA	Water	3535	
410-90323-14	DUP2_070722	Total/NA	Water	3535	
MB 410-278618/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-278618/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-8 MS	MW-106S_MS	Total/NA	Water	3535	
410-90323-8 MSD	MW-106S_MSD	Total/NA	Water	3535	

Analysis Batch: 279218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-2	MW-112D	Total/NA	Water	MFS	278614
410-90323-3	MW-103S	Total/NA	Water	MFS	278614
410-90323-4	FB_070622	Total/NA	Water	MFS	278614
410-90323-5	EB_070622	Total/NA	Water	MFS	278614
410-90323-6	DUP1_070622	Total/NA	Water	MFS	278614
410-90323-7	MW-106D	Total/NA	Water	MFS	278617
MB 410-278614/1-A	Method Blank	Total/NA	Water	MFS	278614
MB 410-278617/1-A	Method Blank	Total/NA	Water	MFS	278617
LCS 410-278617/2-A	Lab Control Sample	Total/NA	Water	MFS	278617
410-90323-7 MS	MW-106D_MS	Total/NA	Water	MFS	278617

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

LCMS

Prep Batch: 279532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-15	MW-102S	Total/NA	Water	3535	
MB 410-279532/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279532/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90323-15 MS	MW-102S_MS	Total/NA	Water	3535	
410-90323-15 MSD	MW-102SMSD	Total/NA	Water	3535	

Analysis Batch: 280074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-1	MW-112S	Total/NA	Water	MFS	277012
410-90323-8	MW-106S	Total/NA	Water	MFS	278618
410-90323-9	MW-103D	Total/NA	Water	MFS	278618
410-90323-10	MW-113D	Total/NA	Water	MFS	278618
410-90323-11	MW-113S	Total/NA	Water	MFS	278618
410-90323-12	DUP1_070722	Total/NA	Water	MFS	278618
410-90323-13	EB_070722	Total/NA	Water	MFS	278618
410-90323-14	DUP2_070722	Total/NA	Water	MFS	278618
MB 410-277012/1-A	Method Blank	Total/NA	Water	MFS	277012
MB 410-278618/1-A	Method Blank	Total/NA	Water	MFS	278618
LCS 410-277012/2-A	Lab Control Sample	Total/NA	Water	MFS	277012
LCS 410-278614/2-A	Lab Control Sample	Total/NA	Water	MFS	278614
410-90323-2 MS	MW-112D_MS	Total/NA	Water	MFS	278614
410-90323-2 MSD	MW-112D_MSD	Total/NA	Water	MFS	278614
410-90323-7 MSD	MW-106D_MSD	Total/NA	Water	MFS	278617

Analysis Batch: 280078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-1	MW-112S	Total/NA	Water	BFS	277011
410-90323-2	MW-112D	Total/NA	Water	BFS	277014
410-90323-3	MW-103S	Total/NA	Water	BFS	277014
410-90323-4	FB_070622	Total/NA	Water	BFS	277014
410-90323-5	EB_070622	Total/NA	Water	BFS	277014
410-90323-6	DUP1_070622	Total/NA	Water	BFS	277014
410-90323-7	MW-106D	Total/NA	Water	BFS	277007
410-90323-8	MW-106S	Total/NA	Water	BFS	277008
410-90323-9	MW-103D	Total/NA	Water	BFS	277008
410-90323-10	MW-113D	Total/NA	Water	BFS	277008
410-90323-11	MW-113S	Total/NA	Water	BFS	277008
410-90323-12	DUP1_070722	Total/NA	Water	BFS	277008
410-90323-13	EB_070722	Total/NA	Water	BFS	277008
410-90323-14	DUP2_070722	Total/NA	Water	BFS	277008
410-90323-15	MW-102S	Total/NA	Water	BFS	277013
MB 410-277007/1-A	Method Blank	Total/NA	Water	BFS	277007
MB 410-277008/1-A	Method Blank	Total/NA	Water	BFS	277008
MB 410-277011/1-A	Method Blank	Total/NA	Water	BFS	277011
MB 410-277013/1-A	Method Blank	Total/NA	Water	BFS	277013
MB 410-277014/1-A	Method Blank	Total/NA	Water	BFS	277014
LCS 410-277007/2-A	Lab Control Sample	Total/NA	Water	BFS	277007
LCS 410-277008/2-A	Lab Control Sample	Total/NA	Water	BFS	277008
LCS 410-277011/2-A	Lab Control Sample	Total/NA	Water	BFS	277011
LCS 410-277013/2-A	Lab Control Sample	Total/NA	Water	BFS	277013
LCS 410-277014/2-A	Lab Control Sample	Total/NA	Water	BFS	277014

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

LCMS (Continued)

Analysis Batch: 280078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-1 MS	MW-112S_MS	Total/NA	Water	BFS	277011
410-90323-1 MSD	MW-112S_MSD	Total/NA	Water	BFS	277011
410-90323-2 MS	MW-112D_MS	Total/NA	Water	BFS	277014
410-90323-2 MSD	MW-112D_MSD	Total/NA	Water	BFS	277014
410-90323-7 MS	MW-106D_MS	Total/NA	Water	BFS	277007
410-90323-7 MSD	MW-106D_MSD	Total/NA	Water	BFS	277007
410-90323-8 MS	MW-106S_MS	Total/NA	Water	BFS	277008
410-90323-8 MSD	MW-106S_MSD	Total/NA	Water	BFS	277008
410-90323-15 MS	MW-102S_MS	Total/NA	Water	BFS	277013
410-90323-15 MSD	MW-102SMSD	Total/NA	Water	BFS	277013

Analysis Batch: 280443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-278618/2-A	Lab Control Sample	Total/NA	Water	MFS	278618
410-90323-1 MS	MW-112S_MS	Total/NA	Water	MFS	277012
410-90323-1 MSD	MW-112S_MSD	Total/NA	Water	MFS	277012
410-90323-8 MS	MW-106S_MS	Total/NA	Water	MFS	278618
410-90323-8 MSD	MW-106S_MSD	Total/NA	Water	MFS	278618

Analysis Batch: 283250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90323-15	MW-102S	Total/NA	Water	MFS	279532
MB 410-279532/1-A	Method Blank	Total/NA	Water	MFS	279532
LCS 410-279532/2-A	Lab Control Sample	Total/NA	Water	MFS	279532
410-90323-15 MS	MW-102S_MS	Total/NA	Water	MFS	279532
410-90323-15 MSD	MW-102SMSD	Total/NA	Water	MFS	279532

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-112S

Lab Sample ID: 410-90323-1

Date Collected: 07/06/22 13:35

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277011	S7AC	ELLE	07/19/22 09:29
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 21:59
Total/NA	Prep	3535			277012	S7AC	ELLE	07/19/22 09:31
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 08:08

Client Sample ID: MW-112D

Lab Sample ID: 410-90323-2

Date Collected: 07/06/22 15:25

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277014	S7AC	ELLE	07/19/22 09:34
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 23:27
Total/NA	Prep	3535			278614	S7AC	ELLE	07/22/22 12:46
Total/NA	Analysis	MFS		1	279218	JVK6	ELLE	07/25/22 21:48

Client Sample ID: MW-103S

Lab Sample ID: 410-90323-3

Date Collected: 07/06/22 14:35

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277014	S7AC	ELLE	07/19/22 09:34
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/28/22 00:05
Total/NA	Prep	3535			278614	S7AC	ELLE	07/22/22 12:46
Total/NA	Analysis	MFS		1	279218	JVK6	ELLE	07/25/22 22:25

Client Sample ID: FB_070622

Lab Sample ID: 410-90323-4

Date Collected: 07/06/22 14:30

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277014	S7AC	ELLE	07/19/22 09:34
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/28/22 00:17
Total/NA	Prep	3535			278614	S7AC	ELLE	07/22/22 12:46
Total/NA	Analysis	MFS		1	279218	JVK6	ELLE	07/25/22 22:38

Client Sample ID: EB_070622

Lab Sample ID: 410-90323-5

Date Collected: 07/06/22 14:35

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277014	S7AC	ELLE	07/19/22 09:34
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/28/22 00:30
Total/NA	Prep	3535			278614	S7AC	ELLE	07/22/22 12:46
Total/NA	Analysis	MFS		1	279218	JVK6	ELLE	07/25/22 22:51

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: DUP1_070622

Lab Sample ID: 410-90323-6

Date Collected: 07/06/22 00:00

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277014	S7AC	ELLE	07/19/22 09:34
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/28/22 00:42
Total/NA	Prep	3535			278614	S7AC	ELLE	07/22/22 12:46
Total/NA	Analysis	MFS		1	279218	JVK6	ELLE	07/25/22 23:03

Client Sample ID: MW-106D

Lab Sample ID: 410-90323-7

Date Collected: 07/07/22 11:20

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277007	S7AC	ELLE	07/19/22 09:26
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 20:29
Total/NA	Prep	3535			278617	S7AC	ELLE	07/22/22 12:47
Total/NA	Analysis	MFS		1	279218	JVK6	ELLE	07/25/22 20:19

Client Sample ID: MW-106S

Lab Sample ID: 410-90323-8

Date Collected: 07/07/22 11:35

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277008	S7AC	ELLE	07/19/22 09:28
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 17:46
Total/NA	Prep	3535			278618	S7AC	ELLE	07/22/22 12:49
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 05:24

Client Sample ID: MW-103D

Lab Sample ID: 410-90323-9

Date Collected: 07/07/22 10:30

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277008	S7AC	ELLE	07/19/22 09:28
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 18:24
Total/NA	Prep	3535			278618	S7AC	ELLE	07/22/22 12:49
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 06:02

Client Sample ID: MW-113D

Lab Sample ID: 410-90323-10

Date Collected: 07/07/22 13:30

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277008	S7AC	ELLE	07/19/22 09:28
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 18:36
Total/NA	Prep	3535			278618	S7AC	ELLE	07/22/22 12:49
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 06:15

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Client Sample ID: MW-113S

Lab Sample ID: 410-90323-11

Date Collected: 07/07/22 15:25

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277008	S7AC	ELLE	07/19/22 09:28
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 18:49
Total/NA	Prep	3535			278618	S7AC	ELLE	07/22/22 12:49
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 06:27

Client Sample ID: DUP1_070722

Lab Sample ID: 410-90323-12

Date Collected: 07/07/22 00:00

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277008	S7AC	ELLE	07/19/22 09:28
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 19:01
Total/NA	Prep	3535			278618	S7AC	ELLE	07/22/22 12:49
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 06:40

Client Sample ID: EB_070722

Lab Sample ID: 410-90323-13

Date Collected: 07/07/22 12:05

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277008	S7AC	ELLE	07/19/22 09:28
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 19:14
Total/NA	Prep	3535			278618	S7AC	ELLE	07/22/22 12:49
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 06:52

Client Sample ID: DUP2_070722

Lab Sample ID: 410-90323-14

Date Collected: 07/07/22 00:00

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277008	S7AC	ELLE	07/19/22 09:28
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/27/22 19:27
Total/NA	Prep	3535			278618	S7AC	ELLE	07/22/22 12:49
Total/NA	Analysis	MFS		1	280074	JVK6	ELLE	07/28/22 07:05

Client Sample ID: MW-102S

Lab Sample ID: 410-90323-15

Date Collected: 07/07/22 15:40

Matrix: Water

Date Received: 07/07/22 18:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			277013	S7AC	ELLE	07/19/22 09:33
Total/NA	Analysis	BFS		1	280078	JVK6	ELLE	07/28/22 01:47
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 12:56

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
BFS	3535	Water	BFS_A2B2
BFS	3535	Water	BFS_A2B3
BFS	3535	Water	BFS_A3B
BFS	3535	Water	BFS_A3B2
BFS	3535	Water	BFS_A4B
BFS	3535	Water	BFS_AB2
BFS	3535	Water	BFS_AB3
BFS	3535	Water	BFS_B3
BFS	3535	Water	BFS_B4
MFS	3535	Water	MFS_M3
MFS	3535	Water	MFS_M4
MFS	3535	Water	MFS_N2
MFS	3535	Water	MFS_N3
MFS	3535	Water	MFS_N4
MFS	3535	Water	MFS_N5

Method Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Method	Method Description	Protocol	Laboratory
BFS	Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
MFS	Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

Client = Client derived Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90323-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-90323-1	MW-112S	Water	07/06/22 13:35	07/07/22 18:59
410-90323-2	MW-112D	Water	07/06/22 15:25	07/07/22 18:59
410-90323-3	MW-103S	Water	07/06/22 14:35	07/07/22 18:59
410-90323-4	FB_070622	Water	07/06/22 14:30	07/07/22 18:59
410-90323-5	EB_070622	Water	07/06/22 14:35	07/07/22 18:59
410-90323-6	DUP1_070622	Water	07/06/22 00:00	07/07/22 18:59
410-90323-7	MW-106D	Water	07/07/22 11:20	07/07/22 18:59
410-90323-8	MW-106S	Water	07/07/22 11:35	07/07/22 18:59
410-90323-9	MW-103D	Water	07/07/22 10:30	07/07/22 18:59
410-90323-10	MW-113D	Water	07/07/22 13:30	07/07/22 18:59
410-90323-11	MW-113S	Water	07/07/22 15:25	07/07/22 18:59
410-90323-12	DUP1_070722	Water	07/07/22 00:00	07/07/22 18:59
410-90323-13	EB_070722	Water	07/07/22 12:05	07/07/22 18:59
410-90323-14	DUP2_070722	Water	07/07/22 00:00	07/07/22 18:59
410-90323-15	MW-102S	Water	07/07/22 15:40	07/07/22 18:59

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 279955

Lab Sample ID: IC 410-279955/1 Client Sample ID: _____

Date Analyzed: 07/27/22 11:52 Lab File ID: 22JUL27BFS-14.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	07/27/22 12:24
BFS_A3B	4.02	Baseline	JVK6	07/27/22 12:24
BFS_B3	4.19	Baseline	JVK6	07/27/22 12:24
BFS_A2B2	4.29	Baseline	JVK6	07/27/22 12:24
BFS_A4B	4.37	Baseline	JVK6	07/27/22 12:24
BFS_A3B2	4.65	Baseline	JVK6	07/27/22 12:24
BFS_B4	4.78	Baseline	JVK6	07/27/22 12:24

Lab Sample ID: IC 410-279955/2 Client Sample ID: _____

Date Analyzed: 07/27/22 12:04 Lab File ID: 22JUL27BFS-15.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.94	Baseline	JVK6	07/27/22 13:36
BFS_A3B	4.02	Baseline	JVK6	07/27/22 13:37
BFS_A4B	4.37	Baseline	JVK6	07/27/22 13:37

Lab Sample ID: IC 410-279955/3 Client Sample ID: _____

Date Analyzed: 07/27/22 12:17 Lab File ID: 22JUL27BFS-16.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.92	Baseline	JVK6	07/27/22 13:37

Lab Sample ID: IC 410-279955/4 Client Sample ID: _____

Date Analyzed: 07/27/22 12:30 Lab File ID: 22JUL27BFS-17.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	07/27/22 13:37

BFS

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 279955

Lab Sample ID: ICISAV 410-279955/5 Client Sample ID: _____

Date Analyzed: 07/27/22 12:42 Lab File ID: 22JUL27BFS-18.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	07/27/22 13:36

Lab Sample ID: IC 410-279955/6 Client Sample ID: _____

Date Analyzed: 07/27/22 12:55 Lab File ID: 22JUL27BFS-19.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	07/27/22 13:39

Lab Sample ID: IC 410-279955/9 Client Sample ID: _____

Date Analyzed: 07/27/22 13:33 Lab File ID: 22JUL27BFS-22.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	07/28/22 06:33

Lab Sample ID: ICB 410-279955/11 Client Sample ID: _____

Date Analyzed: 07/27/22 13:58 Lab File ID: 22JUL27BFS-24.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB3	4.54	Baseline	JVK6	07/28/22 06:34

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 280078

Lab Sample ID: CCVL 410-280078/1 Client Sample ID: _____

Date Analyzed: 07/27/22 15:02 Lab File ID: 22JUL27BFS-27.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	07/28/22 07:01
BFS_A3B	4.02	Baseline	JVK6	07/28/22 07:01
BFS_B3	4.17	Baseline	JVK6	07/28/22 07:01
BFS_A4B	4.37	Baseline	JVK6	07/28/22 07:01

Lab Sample ID: 410-90323-9 Client Sample ID: MW-103D

Date Analyzed: 07/27/22 18:24 Lab File ID: 22JUL27BFS-43.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3		Baseline	JVK6	07/28/22 07:29

Lab Sample ID: CCV 410-280078/24 Client Sample ID: _____

Date Analyzed: 07/27/22 19:52 Lab File ID: 22JUL27BFS-50.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	07/28/22 07:01

Lab Sample ID: CCV 410-280078/31 Client Sample ID: _____

Date Analyzed: 07/27/22 21:21 Lab File ID: 22JUL27BFS-57.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	07/28/22 07:02

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 280078

Lab Sample ID: CCV 410-280078/38 Client Sample ID: _____

Date Analyzed: 07/27/22 22:49 Lab File ID: 22JUL27BFS-64.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	07/28/22 07:02

Lab Sample ID: 410-90323-3 Client Sample ID: MW-103S

Date Analyzed: 07/28/22 00:05 Lab File ID: 22JUL27BFS-70.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Peak assignment corrected	UJB7	07/28/22 17:13
BFS_A3B	4.03	Peak assignment corrected	UJB7	07/28/22 17:13
BFS_B3	4.19	Peak assignment corrected	UJB7	07/28/22 17:13
BFS_AB3	4.56	Peak assignment corrected	UJB7	07/28/22 17:14

Lab Sample ID: CCV 410-280078/49 Client Sample ID: _____

Date Analyzed: 07/28/22 01:08 Lab File ID: 22JUL27BFS-75.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	07/28/22 07:02

Lab Sample ID: CCV 410-280078/56 Client Sample ID: _____

Date Analyzed: 07/28/22 02:37 Lab File ID: 22JUL27BFS-82.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	07/28/22 07:02

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283250

Lab Sample ID: CCV 410-283250/7 Client Sample ID: _____

Date Analyzed: 08/05/22 13:34 Lab File ID: 22AUG5MFS-07.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_M3	5.86	Baseline	DCS9	08/06/22 11:01

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL	
							BFS_A2B3	0.654875 ng/mL	
							BFS_A3B	4.97698 ng/mL	
							BFS_A3B2	6.54868 ng/mL	
							BFS_A4B	2.75045 ng/mL	
							BFS_AB2	4.4531 ng/mL	
							BFS_AB3	37.1964 ng/mL	
							BFS_B3	15.8478 ng/mL	
							BFS_B4	8.64425 ng/mL	
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
					PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
								BFS_A2B3	26195 ng/mL
								BFS_A3B	199079 ng/mL
								BFS_A3B2	261947 ng/mL
								BFS_A4B	110018 ng/mL
								BFS_AB2	178124 ng/mL
								BFS_AB3	1487860 ng/mL
								BFS_B3	633911 ng/mL
								BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_ST_01249	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01249	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL	
							MFS_M3	0.984766 ng/mL	
							MFS_N3	1.00129 ng/mL	
							MFS_M4	0.981629 ng/mL	
							MFS_N4	0.995152 ng/mL	
							MFS_N5	1.00979 ng/mL	
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
					PFC_IN_00717	1 mL	MFS_N2	96.3932 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
.PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
..PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS_M4	49081.4 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
...PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
...PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
...PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
...PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
...PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
...PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
PFC_IN_BFS_00016	08/14/22	03/29/22	Methanol, Lot 2732102212233A	10 mL	PFC_IN_BFS_00011	1 mL	BFS A2B2	1388.32 ng/mL
							BFS A2B3	26.195 ng/mL
							BFS A3B	199.079 ng/mL
							BFS A3B2	261.947 ng/mL
							BFS A4B	110.018 ng/mL
							BFS AB2	178.124 ng/mL
							BFS AB3	1487.86 ng/mL
							BFS B3	633.911 ng/mL
							BFS B4	345.77 ng/mL
.PFC_IN_BFS_00011	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IS_MOD_00364	08/22/22	07/22/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01680	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PFC IS MOD 00371	10/03/22	08/03/22	Methanol, Lot ED531-US	10 mL	PFC ST 01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC ST 01726	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC SS 00012	09/27/22	07/05/22	Methanol, Lot 220054	10 mL	PFC_INT_00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC STD BFS1 00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.025 mL	BFS_A2B2	0.347079 ng/mL
							BFS_A2B3	0.00654875 ng/mL
							BFS_A3B	0.0497698 ng/mL
							BFS_A3B2	0.0654867 ng/mL
							BFS_A4B	0.0275045 ng/mL
							BFS_AB2	0.044531 ng/mL
							BFS_AB3	0.371964 ng/mL
							BFS_B3	0.158478 ng/mL
							BFS_B4	0.0864425 ng/mL
							PFC INT 00012	0.1 mL
PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS10_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.5 mL	BFS A2B2	694.159 ng/mL
							BFS A2B3	13.0975 ng/mL
							BFS A3B	99.5395 ng/mL
							BFS A3B2	130.974 ng/mL
							BFS A4B	55.009 ng/mL
							BFS AB2	89.062 ng/mL
							BFS AB3	743.928 ng/mL
							BFS B3	316.955 ng/mL
							BFS B4	172.885 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS2_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.075 mL	BFS A2B2	1.04124 ng/mL
							BFS_A2B3	0.0196463 ng/mL
							BFS_A3B	0.149309 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							BFS_A3B2	0.19646 ng/mL	
							BFS_A4B	0.0825135 ng/mL	
							BFS_AB2	0.133593 ng/mL	
							BFS_AB3	1.11589 ng/mL	
							BFS_B3	0.475433 ng/mL	
							BFS_B4	0.259327 ng/mL	
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL	
							BFS_A2B3	2.6195 ng/mL	
							BFS_A3B	19.9079 ng/mL	
							BFS_A3B2	26.1947 ng/mL	
							BFS_A4B	11.0018 ng/mL	
							BFS_AB2	17.8124 ng/mL	
							BFS_AB3	148.786 ng/mL	
							BFS_B3	63.3911 ng/mL	
							BFS_B4	34.577 ng/mL	
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
								BFS_A2B3	26195 ng/mL
								BFS_A3B	199079 ng/mL
								BFS_A3B2	261947 ng/mL
								BFS_A4B	110018 ng/mL
								BFS_AB2	178124 ng/mL
								BFS_AB3	1487860 ng/mL
								BFS_B3	633911 ng/mL
								BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121				(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516				(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS3_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.2 mL	BFS_A2B2	2.77663 ng/mL	
							BFS_A2B3	0.05239 ng/mL	
							BFS_A3B	0.398158 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A3B2	0.523894 ng/mL
							BFS_A4B	0.220036 ng/mL
							BFS_AB2	0.356248 ng/mL
							BFS AB3	2.97571 ng/mL
							BFS B3	1.26782 ng/mL
							BFS B4	0.69154 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS4_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.5 mL	BFS A2B2	6.94158 ng/mL
							BFS_A2B3	0.130975 ng/mL
							BFS_A3B	0.995395 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A3B2	1.30974 ng/mL
							BFS A4B	0.55009 ng/mL
							BFS AB2	0.89062 ng/mL
							BFS AB3	7.43928 ng/mL
							BFS B3	3.16955 ng/mL
							BFS B4	1.72885 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS5_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	1 mL	BFS A2B2	13.8832 ng/mL
							BFS A2B3	0.26195 ng/mL
							BFS A3B	1.99079 ng/mL
							BFS A3B2	2.61947 ng/mL
							BFS A4B	1.10018 ng/mL
							BFS AB2	1.78124 ng/mL
							BFS AB3	14.8786 ng/mL
							BFS_B3	6.33911 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS B4	3.4577 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS6_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL
							BFS_A2B3	0.654875 ng/mL
							BFS_A3B	4.97698 ng/mL
							BFS_A3B2	6.54868 ng/mL
							BFS_A4B	2.75045 ng/mL
							BFS_AB2	4.4531 ng/mL
							BFS_AB3	37.1964 ng/mL
							BFS_B3	15.8478 ng/mL
							BFS_B4	8.64425 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
BFS_B4	3457.7 ng/mL							
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
BFS_B4	345770 ng/mL							
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS7_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.05 mL	BFS_A2B2	69.4159 ng/mL
							BFS_A2B3	1.30975 ng/mL
							BFS_A3B	9.95395 ng/mL
							BFS_A3B2	13.0974 ng/mL
							BFS_A4B	5.5009 ng/mL
							BFS_AB2	8.9062 ng/mL
							BFS_AB3	74.3928 ng/mL
							BFS_B3	31.6956 ng/mL
					BFS_B4	17.2885 ng/mL		
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
BFS_B4	3457.7 ng/mL							
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS8_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23	Solvay, Lot BFS 1206SI			(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS9_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.2 mL	BFS A2B2	277.663 ng/mL
							BFS A2B3	5.239 ng/mL
							BFS A3B	39.8158 ng/mL
							BFS A3B2	52.3894 ng/mL
							BFS A4B	22.0036 ng/mL
							BFS AB2	35.6248 ng/mL
							BFS_AB3	297.571 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS B3	126.782 ng/mL
							BFS B4	69.154 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_MFS1_00009	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.025 mL	MFS_N2	0.240983 ng/mL
							MFS_M3	0.246191 ng/mL
							MFS_N3	0.250322 ng/mL
							MFS_M4	0.245407 ng/mL
							MFS_N4	0.248788 ng/mL
							MFS_N5	0.252449 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS_N2	96.3932 ng/mL
							MFS_M3	98.4766 ng/mL
							MFS_N3	100.129 ng/mL
							MFS_M4	98.1629 ng/mL
							MFS_N4	99.5152 ng/mL
							MFS_N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS_N2	1927.86 ng/mL
							MFS_M3	1969.53 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS2_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.05 mL	MFS_N2	0.481966 ng/mL
							MFS_M3	0.492383 ng/mL
							MFS_N3	0.500644 ng/mL
							MFS_M4	0.490814 ng/mL
							MFS_N4	0.497576 ng/mL
							MFS_N5	0.504897 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS_N3	2002.58 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS3_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL
							MFS_M3	0.984766 ng/mL
							MFS_N3	1.00129 ng/mL
							MFS_M4	0.981629 ng/mL
							MFS_N4	0.995152 ng/mL
							MFS_N5	1.00979 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS4_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.5 mL	MFS N2	4.81966 ng/mL
							MFS M3	4.92383 ng/mL
							MFS N3	5.00644 ng/mL
							MFS M4	4.90814 ng/mL
							MFS N4	4.97576 ng/mL
							MFS N5	5.04897 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
							MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS5_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	1 mL	MFS N2	9.63932 ng/mL
							MFS M3	9.84766 ng/mL
							MFS N3	10.0129 ng/mL
							MFS M4	9.81629 ng/mL
							MFS N4	9.95152 ng/mL
							MFS N5	10.0979 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS6_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	2.5 mL	MFS N2	24.0983 ng/mL
							MFS M3	24.6191 ng/mL
							MFS N3	25.0322 ng/mL
							MFS M4	24.5407 ng/mL
							MFS N4	24.8788 ng/mL
							MFS N5	25.2449 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS7_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	5 mL	MFS N2	48.1966 ng/mL
							MFS M3	49.2383 ng/mL
							MFS N3	50.0644 ng/mL
							MFS M4	49.0814 ng/mL
							MFS N4	49.7576 ng/mL
							MFS N5	50.4897 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN_MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN_MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN_MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN_MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN_MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN_MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN_MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN_MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN_MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN_MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

Reagent

PFC_ST_01249



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

- Table A: Components and Concentrations of the Solution/Mixture
- Figure 1: LC/MS Data (SIR)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

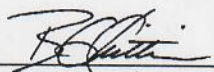
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

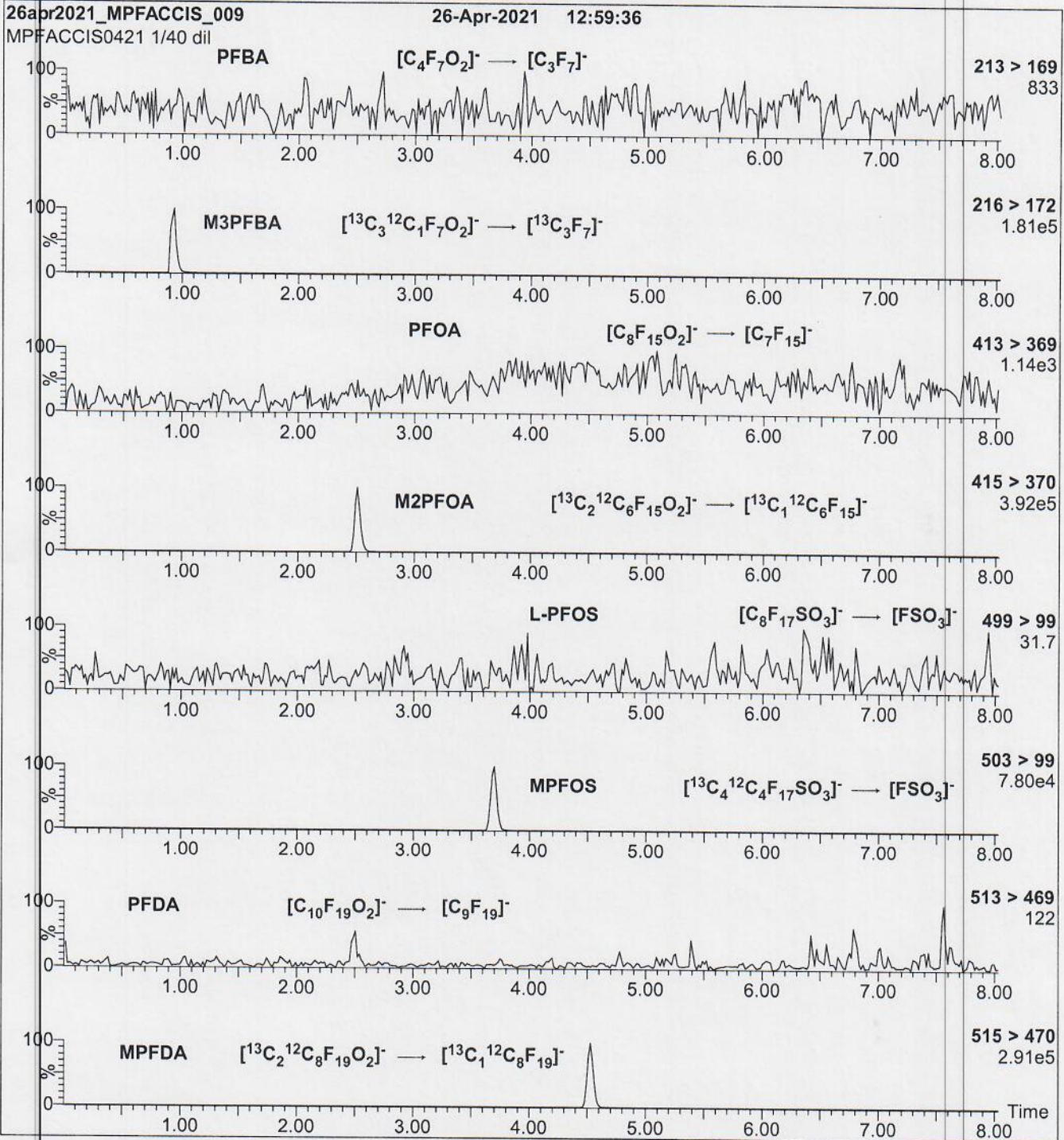
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01410



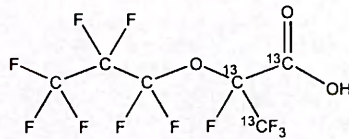
WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

AFC-ST-01410

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA1121
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)^(13C₃)propanoic acid

STRUCTURE: **CAS #:** Not available



410-2416299

MOLECULAR FORMULA: ¹³C₃¹²C₃HF₁₁O₃ **MOLECULAR WEIGHT:** 333.03
CONCENTRATION: 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 11/11/2021
EXPIRY DATE: (mm/dd/yyyy) 11/11/2024
RECOMMENDED STORAGE: Refrigerate ampoule

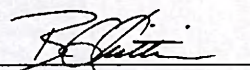
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

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Certified By:  **Date:** 11/16/2021
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

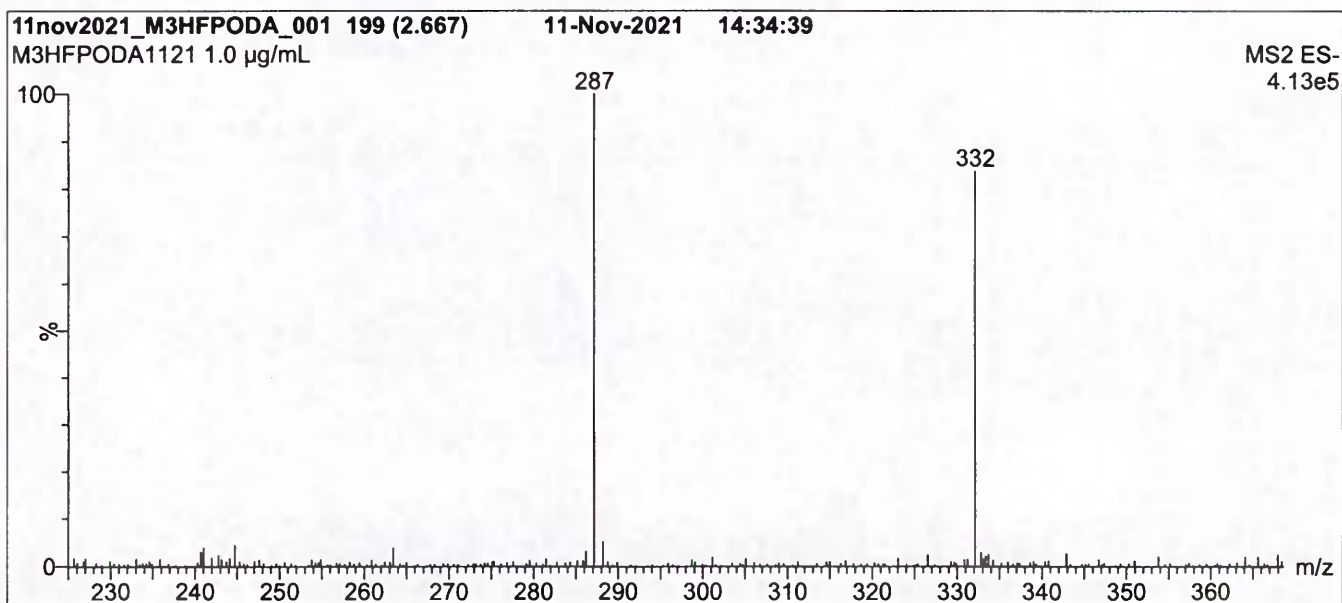
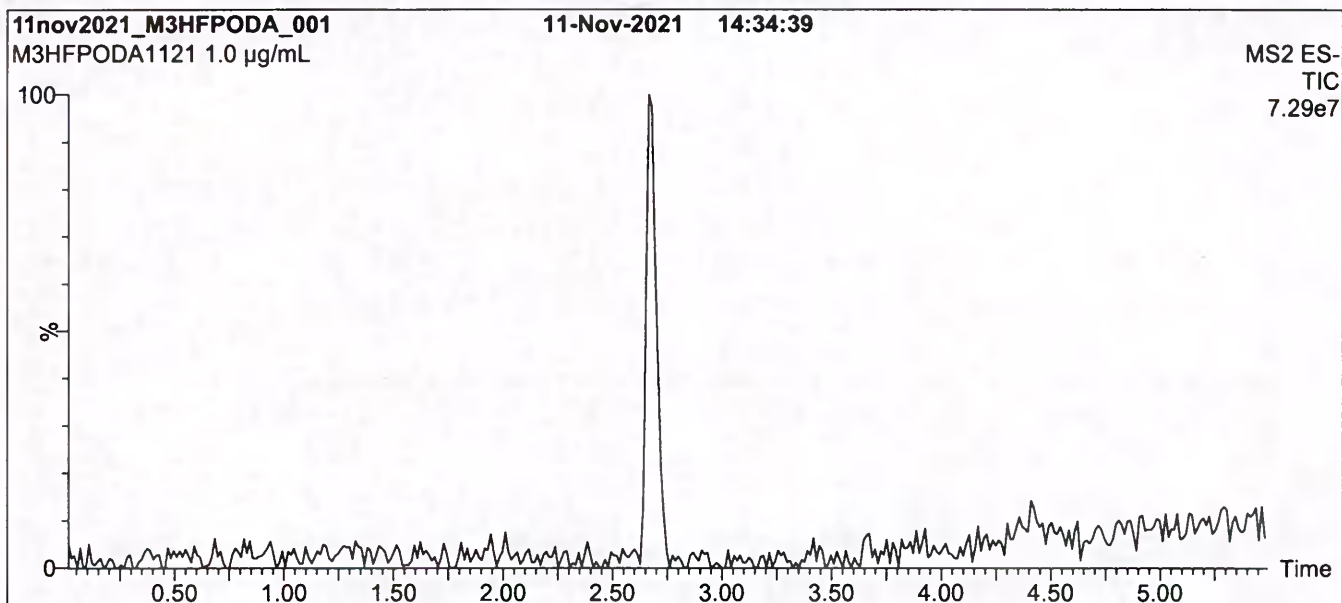
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M3HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H₂O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.75 min.
Time: 12 min

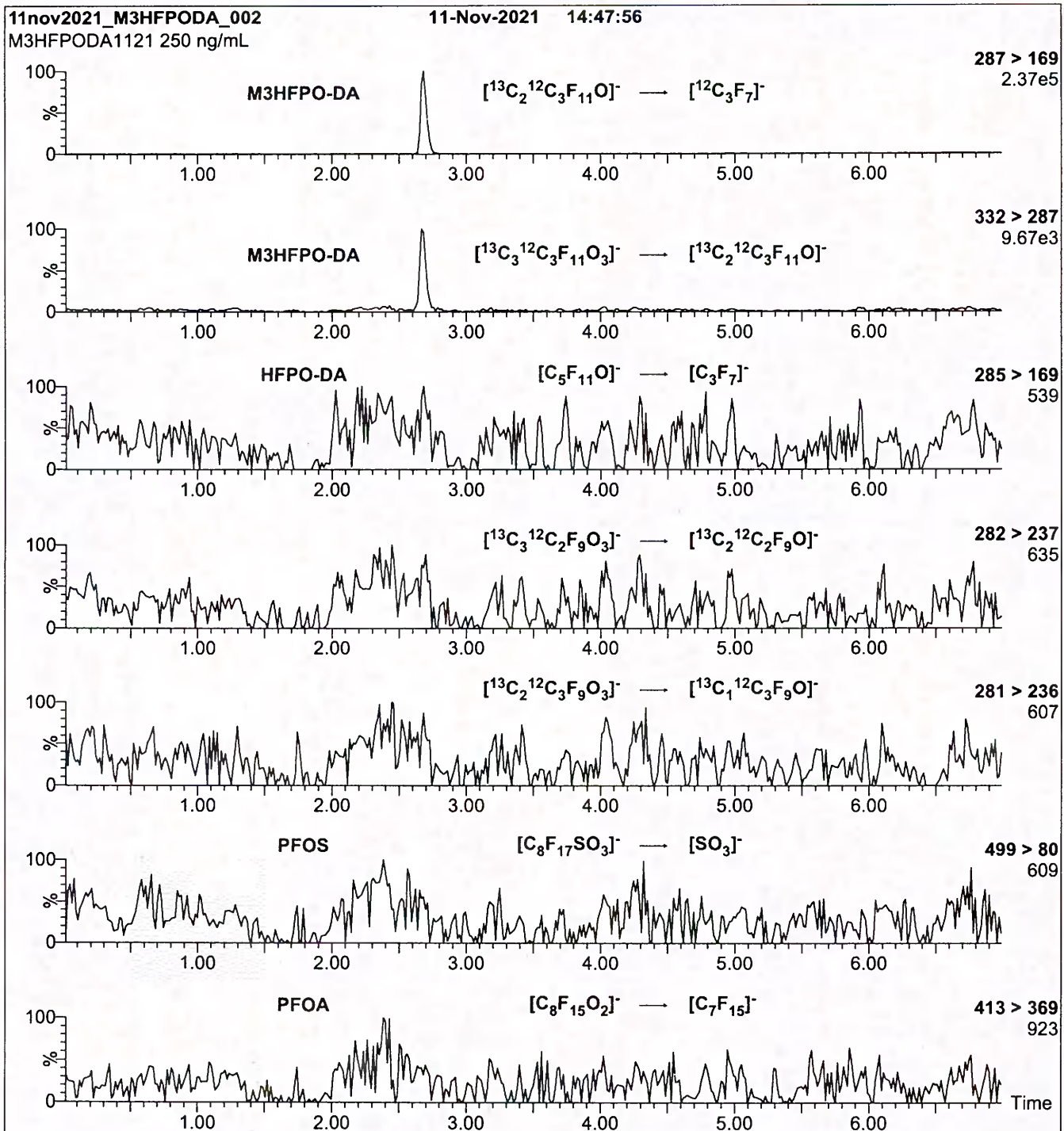
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (M3HFPO-DA)
Mobile phase: Same as Figure 1
Flow: 300 $\mu\text{L}/\text{min}$

MS Parameters:

Collision Gas (mbar) = 3.37e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_01597



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2748760
ID: PFC_ST_01597
Exp: 04/26/26 Prpd: PY40
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:


- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

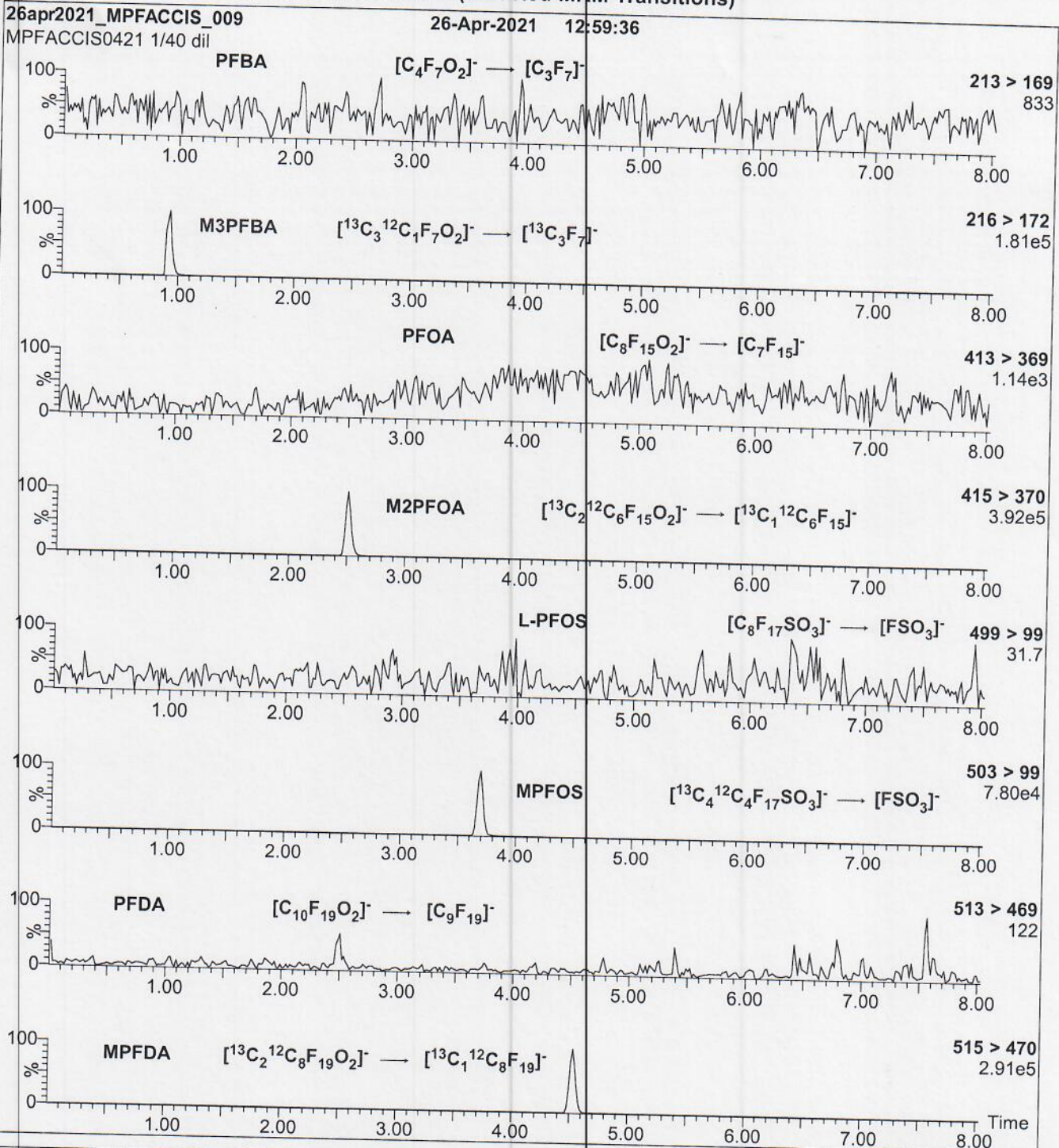
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01680



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**


2858245
ID: PFC_ST_01680
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

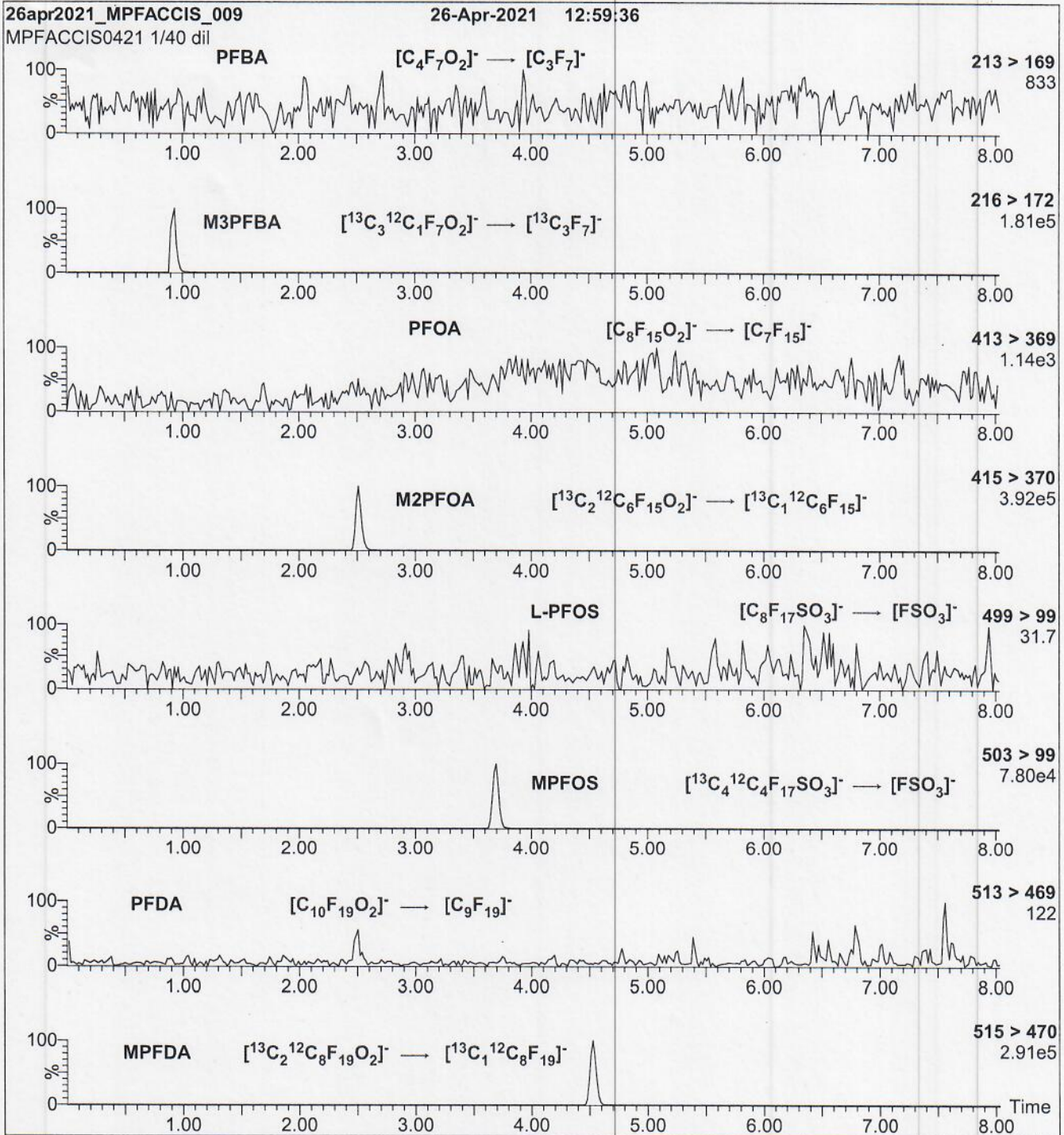
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01726



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2984963
ID: PFC_ST_01726
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

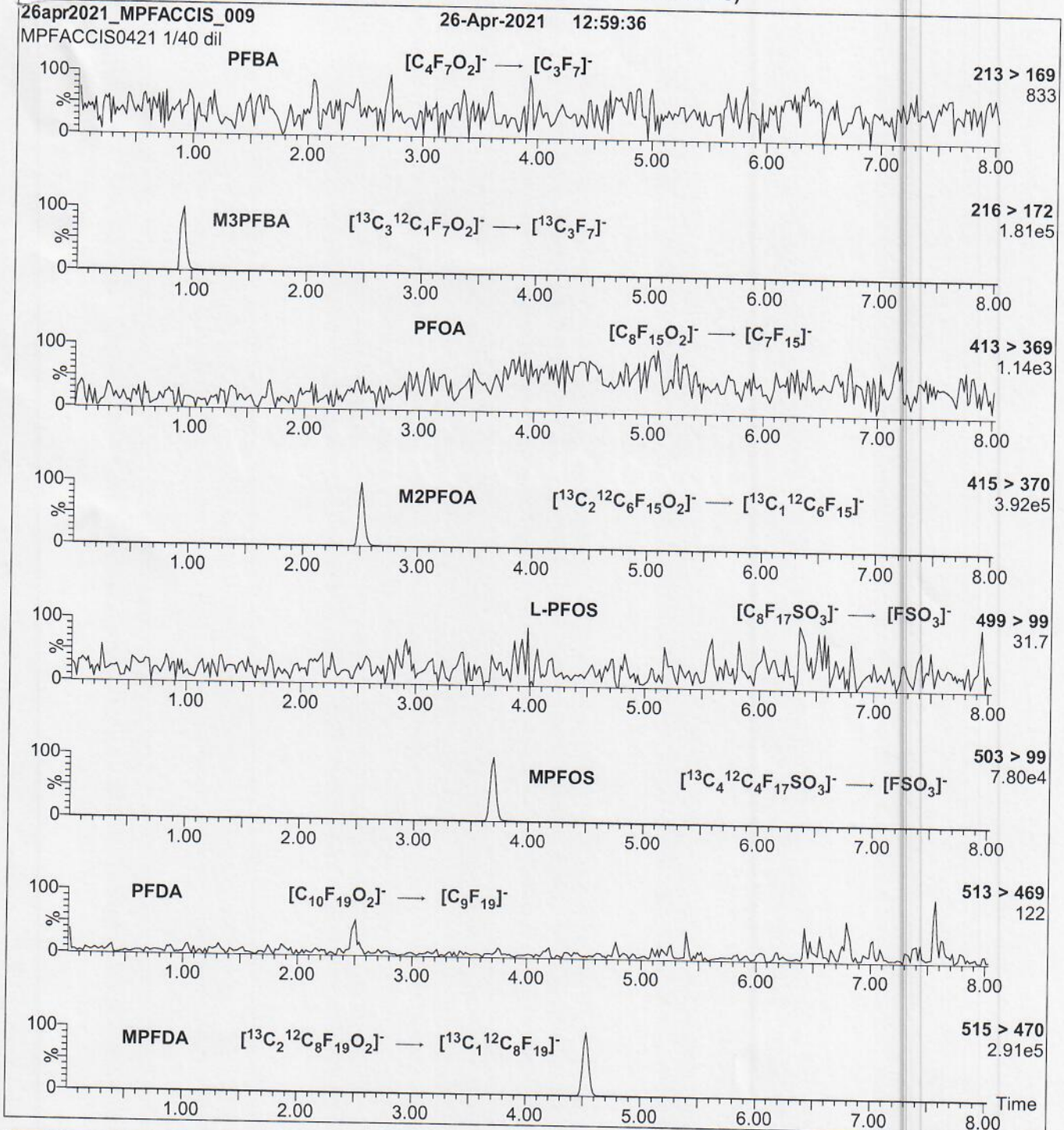
Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

BFS_IDA

**Bi-functional Surfactants (BFS) by
LC/MS/MS using Isotope Dilution**

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories

Job No.: 410-90323-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-112S	410-90323-1	101
MW-112D	410-90323-2	102
MW-103S	410-90323-3	89
FB_070622	410-90323-4	113
EB_070622	410-90323-5	108
DUP1_070622	410-90323-6	112
MW-106D	410-90323-7	97
MW-106S	410-90323-8	82
MW-103D	410-90323-9	84
MW-113D	410-90323-10	95
MW-113S	410-90323-11	96
DUP1_070722	410-90323-12	91
EB_070722	410-90323-13	101
DUP2_070722	410-90323-14	101
MW-102S	410-90323-15	91
	MB 410-277007/1-A	99
	MB 410-277008/1-A	105
	MB 410-277011/1-A	103
	MB 410-277013/1-A	94
	MB 410-277014/1-A	99
	LCS 410-277007/2-A	103
	LCS 410-277008/2-A	102
	LCS 410-277011/2-A	99
	LCS 410-277013/2-A	101
	LCS 410-277014/2-A	106
MW-112S_MS MS	410-90323-1 MS	113
MW-112D_MS MS	410-90323-2 MS	92
MW-106D_MS MS	410-90323-7 MS	95
MW-106S_MS MS	410-90323-8 MS	82
MW-102S_MS MS	410-90323-15 MS	98

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-112S_MSD MSD	410-90323-1 MSD	108
MW-112D_MSD MSD	410-90323-2 MSD	94
MW-106D_MSD MSD	410-90323-7 MSD	96
MW-106S_MSD MSD	410-90323-8 MSD	83
MW-102SMSD MSD	410-90323-15 MSD	98

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUL27BFS-52.d

Lab ID: LCS 410-277007/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	258	103	70-130	
BFS_A2B3	4.72	4.57	97	70-130	
BFS_A3B	35.8	36.8	103	70-130	
BFS_A3B2	47.2	49.8	106	70-130	
BFS_A4B	19.8	21.1	106	70-130	
BFS_AB2	32.1	35.5	111	70-130	
BFS_AB3	268	285	106	70-130	
BFS_B3	114	127	111	70-130	
BFS_B4	62.2	65.2	105	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-39.d

Lab ID: LCS 410-277008/2-A

Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	248	99	70-130	
BFS_A2B3	4.72	4.68	99	70-130	
BFS_A3B	35.8	35.4	99	70-130	
BFS_A3B2	47.2	48.5	103	70-130	
BFS_A4B	19.8	20.6	104	70-130	
BFS_AB2	32.1	33.7	105	70-130	
BFS_AB3	268	277	103	70-130	
BFS_B3	114	118	103	70-130	
BFS_B4	62.2	62.2	100	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-59.d

Lab ID: LCS 410-277011/2-A

Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	263	105	70-130	
BFS_A2B3	4.72	4.35	92	70-130	
BFS_A3B	35.8	35.8	100	70-130	
BFS_A3B2	47.2	51.2	109	70-130	
BFS_A4B	19.8	21.4	108	70-130	
BFS_AB2	32.1	32.7	102	70-130	
BFS_AB3	268	281	105	70-130	
BFS_B3	114	124	109	70-130	
BFS_B4	62.2	66.9	107	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUL27BFS-77.d

Lab ID: LCS 410-277013/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	251	101	70-130	
BFS_A2B3	4.72	4.41	93	70-130	
BFS_A3B	35.8	35.7	100	70-130	
BFS_A3B2	47.2	49.1	104	70-130	
BFS_A4B	19.8	20.7	104	70-130	
BFS_AB2	32.1	31.5	98	70-130	
BFS_AB3	268	271	101	70-130	
BFS_B3	114	120	105	70-130	
BFS_B4	62.2	61.3	98	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUL27BFS-66.d

Lab ID: LCS 410-277014/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	259	103	70-130	
BFS_A2B3	4.72	4.64	98	70-130	
BFS_A3B	35.8	35.5	99	70-130	
BFS_A3B2	47.2	46.9	99	70-130	
BFS_A4B	19.8	20.8	105	70-130	
BFS_AB2	32.1	34.1	106	70-130	
BFS_AB3	268	276	103	70-130	
BFS_B3	114	119	104	70-130	
BFS_B4	62.2	61.1	98	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-61.d

Lab ID: 410-90323-1 MS

Client ID: MW-112S_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	204	ND	332	163	70-130	F1
BFS_A2B3	3.85	ND	4.91	128	70-130	
BFS_A3B	29.2	ND	52.9	181	70-130	F1
BFS_A3B2	38.5	ND	57.8	150	70-130	F1
BFS_A4B	16.2	ND	25.8	160	70-130	F1
BFS_AB2	26.2	ND	51.1	195	70-130	F1
BFS_AB3	219	ND	314	144	70-130	F1
BFS_B3	93.1	ND	166	179	70-130	F1
BFS_B4	50.8	ND	70.2	138	70-130	F1

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-68.d

Lab ID: 410-90323-2 MS

Client ID: MW-112D_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	219	ND	476	217	70-130	F1
BFS_A2B3	4.14	ND	6.93	168	70-130	F1
BFS_A3B	31.4	ND	69.0	219	70-130	F1
BFS_A3B2	41.4	ND	80.1	194	70-130	F1
BFS_A4B	17.4	ND	37.4	215	70-130	F1
BFS_AB2	28.1	ND	66.1	235	70-130	F1
BFS_AB3	235	ND	458	195	70-130	F1
BFS_B3	100	ND	235	235	70-130	F1
BFS_B4	54.6	ND	107	196	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-54.d

Lab ID: 410-90323-7 MS

Client ID: MW-106D_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	218	ND	519	238	70-130	F1
BFS_A2B3	4.11	ND	8.23	200	70-130	F1
BFS_A3B	31.2	ND	72.4	232	70-130	F1
BFS_A3B2	41.1	ND	86.0	209	70-130	F1
BFS_A4B	17.3	ND	39.1	226	70-130	F1
BFS_AB2	28.0	ND	69.3	248	70-130	F1
BFS_AB3	234	ND	479	205	70-130	F1
BFS_B3	99.5	ND	248	250	70-130	F1
BFS_B4	54.3	ND	107	197	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-41.d

Lab ID: 410-90323-8 MS

Client ID: MW-106S_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	214	ND	645	301	70-130	F1
BFS_A2B3	4.04	ND	10.8	269	70-130	F1
BFS_A3B	30.7	ND	93.0	303	70-130	F1
BFS_A3B2	40.4	ND	114	283	70-130	F1
BFS_A4B	16.9	ND	51.6	305	70-130	F1
BFS_AB2	27.4	ND	88.5	323	70-130	F1
BFS_AB3	229	ND	650	284	70-130	F1
BFS_B3	97.7	ND	286	293	70-130	F1
BFS_B4	53.3	ND	153	286	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-79.d

Lab ID: 410-90323-15 MS

Client ID: MW-102S_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	214	ND	342	160	70-130	F1
BFS_A2B3	4.04	ND	5.59	138	70-130	F1
BFS_A3B	30.7	ND	56.8	185	70-130	F1
BFS_A3B2	40.4	ND	58.2	144	70-130	F1
BFS_A4B	17.0	ND	26.4	155	70-130	F1
BFS_AB2	27.5	ND	54.9	200	70-130	F1
BFS_AB3	230	ND	337	147	70-130	F1
BFS_B3	97.8	ND	181	185	70-130	F1
BFS_B4	53.3	ND	73.2	137	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-62.d

Lab ID: 410-90323-1 MSD

Client ID: MW-112S MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	220	362	165	9	30	70-130	F1
BFS_A2B3	4.15	6.07	146	21	30	70-130	F1
BFS_A3B	31.6	60.3	191	13	30	70-130	F1
BFS_A3B2	41.5	62.3	150	8	30	70-130	F1
BFS_A4B	17.4	27.7	159	7	30	70-130	F1
BFS_AB2	28.2	56.1	199	9	30	70-130	F1
BFS_AB3	236	365	155	15	30	70-130	F1
BFS_B3	101	179	178	7	30	70-130	F1
BFS_B4	54.8	84.7	154	19	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-69.d

Lab ID: 410-90323-2 MSD

Client ID: MW-112D MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	198	457	231	4	30	70-130	F1
BFS_A2B3	3.74	7.04	188	2	30	70-130	F1
BFS_A3B	28.4	68.5	241	1	30	70-130	F1
BFS_A3B2	37.4	75.7	203	6	30	70-130	F1
BFS_A4B	15.7	33.8	215	10	30	70-130	F1
BFS_AB2	25.4	62.3	245	6	30	70-130	F1
BFS_AB3	212	436	205	5	30	70-130	F1
BFS_B3	90.4	219	242	7	30	70-130	F1
BFS_B4	49.3	99.0	201	8	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-55.d

Lab ID: 410-90323-7 MSD

Client ID: MW-106D MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	225	518	230	0	30	70-130	F1
BFS_A2B3	4.25	8.33	196	1	30	70-130	F1
BFS_A3B	32.3	75.0	232	4	30	70-130	F1
BFS_A3B2	42.5	87.5	206	2	30	70-130	F1
BFS_A4B	17.9	39.3	220	0	30	70-130	F1
BFS_AB2	28.9	67.1	232	3	30	70-130	F1
BFS_AB3	241	489	202	2	30	70-130	F1
BFS_B3	103	248	241	0	30	70-130	F1
BFS_B4	56.1	118	210	9	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III BFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-42.d

Lab ID: 410-90323-8 MSD

Client ID: MW-106S MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	236	730	310	12	30	70-130	F1
BFS_A2B3	4.44	11.8	265	8	30	70-130	F1
BFS_A3B	33.8	105	309	12	30	70-130	F1
BFS_A3B2	44.4	125	282	9	30	70-130	F1
BFS_A4B	18.7	59.0	316	13	30	70-130	F1
BFS_AB2	30.2	103	339	15	30	70-130	F1
BFS_AB3	252	725	287	11	30	70-130	F1
BFS_B3	108	317	294	10	30	70-130	F1
BFS_B4	58.7	156	267	3	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27BFS-80.d

Lab ID: 410-90323-15 MSD

Client ID: MW-102SMSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	197	289	147	17	30	70-130	F1
BFS_A2B3	3.71	4.23	114	28	30	70-130	
BFS_A3B	28.2	44.9	159	23	30	70-130	F1
BFS_A3B2	37.1	47.2	127	21	30	70-130	
BFS_A4B	15.6	22.1	142	18	30	70-130	F1
BFS_AB2	25.2	45.5	180	19	30	70-130	F1
BFS_AB3	211	288	137	16	30	70-130	F1
BFS_B3	89.7	146	163	21	30	70-130	F1
BFS_B4	48.9	57.9	118	23	30	70-130	

Column to be used to flag recovery and RPD values

FORM III BFS

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 22JUL27BFS-51.d Lab Sample ID: MB 410-277007/1-A

Matrix: Water Date Extracted: 07/19/2022 09:26

Instrument ID: 30733 Date Analyzed: 07/27/2022 20:04

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-277007/2-A	22JUL27BFS-52.d	07/27/2022 20:17
MW-106D	410-90323-7	22JUL27BFS-53.d	07/27/2022 20:29
MW-106D_MS MS	410-90323-7 MS	22JUL27BFS-54.d	07/27/2022 20:43
MW-106D_MSD MSD	410-90323-7 MSD	22JUL27BFS-55.d	07/27/2022 20:56

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Lab File ID: 22JUL27BFS-38.d

Lab Sample ID: MB 410-277008/1-A

Matrix: Water

Date Extracted: 07/19/2022 09:28

Instrument ID: 30733

Date Analyzed: 07/27/2022 17:21

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-277008/2-A	22JUL27BFS-39.d	07/27/2022 17:33
MW-106S	410-90323-8	22JUL27BFS-40.d	07/27/2022 17:46
MW-106S_MS MS	410-90323-8 MS	22JUL27BFS-41.d	07/27/2022 17:58
MW-106S_MSD MSD	410-90323-8 MSD	22JUL27BFS-42.d	07/27/2022 18:11
MW-103D	410-90323-9	22JUL27BFS-43.d	07/27/2022 18:24
MW-113D	410-90323-10	22JUL27BFS-44.d	07/27/2022 18:36
MW-113S	410-90323-11	22JUL27BFS-45.d	07/27/2022 18:49
DUP1_070722	410-90323-12	22JUL27BFS-46.d	07/27/2022 19:01
EB_070722	410-90323-13	22JUL27BFS-47.d	07/27/2022 19:14
DUP2_070722	410-90323-14	22JUL27BFS-48.d	07/27/2022 19:27

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 22JUL27BFS-58.d Lab Sample ID: MB 410-277011/1-A

Matrix: Water Date Extracted: 07/19/2022 09:29

Instrument ID: 30733 Date Analyzed: 07/27/2022 21:34

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-277011/2-A	22JUL27BFS-59.d	07/27/2022 21:46
MW-112S	410-90323-1	22JUL27BFS-60.d	07/27/2022 21:59
MW-112S_MS MS	410-90323-1 MS	22JUL27BFS-61.d	07/27/2022 22:11
MW-112S_MSD MSD	410-90323-1 MSD	22JUL27BFS-62.d	07/27/2022 22:24

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 22JUL27BFS-76.d Lab Sample ID: MB 410-277013/1-A

Matrix: Water Date Extracted: 07/19/2022 09:33

Instrument ID: 30733 Date Analyzed: 07/28/2022 01:20

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-277013/2-A	22JUL27BFS-77.d	07/28/2022 01:34
MW-102S	410-90323-15	22JUL27BFS-78.d	07/28/2022 01:47
MW-102S_MS MS	410-90323-15 MS	22JUL27BFS-79.d	07/28/2022 02:00
MW-102SMSD MSD	410-90323-15 MSD	22JUL27BFS-80.d	07/28/2022 02:12

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Lab File ID: 22JUL27BFS-65.d

Lab Sample ID: MB 410-277014/1-A

Matrix: Water

Date Extracted: 07/19/2022 09:34

Instrument ID: 30733

Date Analyzed: 07/27/2022 23:02

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-277014/2-A	22JUL27BFS-66.d	07/27/2022 23:14
MW-112D	410-90323-2	22JUL27BFS-67.d	07/27/2022 23:27
MW-112D_MS MS	410-90323-2 MS	22JUL27BFS-68.d	07/27/2022 23:39
MW-112D_MSD MSD	410-90323-2 MSD	22JUL27BFS-69.d	07/27/2022 23:52
MW-103S	410-90323-3	22JUL27BFS-70.d	07/28/2022 00:05
FB_070622	410-90323-4	22JUL27BFS-71.d	07/28/2022 00:17
EB_070622	410-90323-5	22JUL27BFS-72.d	07/28/2022 00:30
DUP1_070622	410-90323-6	22JUL27BFS-73.d	07/28/2022 00:42

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90323-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 07/27/2022 13:45
 Calibration ID: 41316

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3317522	4.97				
UPPER LIMIT		4976283	5.37				
LOWER LIMIT		1658761	4.57				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-279955/11		3524854	4.97				
ICV 410-279955/12		3253923	4.98				
CCVL 410-280078/1		3258656	4.97				
CCV 410-280078/11		3347833	4.97				
MB 410-277008/1-A		3015091	4.98				
LCS 410-277008/2-A		3457534	4.98				
410-90323-8	MW-106S	2781129	4.98				
410-90323-8 MS	MW-106S_MS MS	2906905	4.97				
410-90323-8 MSD	MW-106S_MSD MSD	2816859	4.98				
410-90323-9	MW-103D	3054634	4.98				
410-90323-10	MW-113D	3198367	4.98				
410-90323-11	MW-113S	3267022	4.97				
410-90323-12	DUP1_070722	3233608	4.98				
410-90323-13	EB_070722	3311361	4.98				
410-90323-14	DUP2_070722	3253245	4.98				
CCV 410-280078/24		3303726	4.97				
MB 410-277007/1-A		3427949	4.98				
LCS 410-277007/2-A		3249089	4.97				
410-90323-7	MW-106D	3120063	4.98				
410-90323-7 MS	MW-106D_MS MS	3120488	4.98				
410-90323-7 MSD	MW-106D_MSD MSD	3183744	4.98				
CCV 410-280078/31		3460311	4.97				
MB 410-277011/1-A		3400872	4.97				
LCS 410-277011/2-A		3239707	4.98				
410-90323-1	MW-112S	3273661	4.98				
410-90323-1 MS	MW-112S_MS MS	2977114	4.98				
410-90323-1 MSD	MW-112S_MSD MSD	3065775	4.98				
CCV 410-280078/38		3269415	4.97				
MB 410-277014/1-A		3364542	4.98				
LCS 410-277014/2-A		3431926	4.98				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90323-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 07/27/2022 13:45
 Calibration ID: 41316

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3317522	4.97				
UPPER LIMIT		4976283	5.37				
LOWER LIMIT		1658761	4.57				
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-90323-2	MW-112D	3138820	4.98				
410-90323-2 MS	MW-112D_MS MS	3129942	4.98				
410-90323-2 MSD	MW-112D_MSD MSD	3190365	4.98				
410-90323-3	MW-103S	2931293	4.98				
410-90323-4	FB_070622	3408650	4.97				
410-90323-5	EB_070622	3416741	4.97				
410-90323-6	DUP1_070622	3152435	4.98				
CCV 410-280078/49		3305827	4.96				
MB 410-277013/1-A		3413118	4.98				
LCS 410-277013/2-A		3591784	4.97				
410-90323-15	MW-102S	3182173	4.97				
410-90323-15 MS	MW-102S_MS MS	3192925	4.98				
410-90323-15 MSD	MW-102SMSD MSD	3133705	4.97				
CCV 410-280078/56		3358212	4.97				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S Lab Sample ID: 410-90323-1

Matrix: Water Lab File ID: 22JUL27BFS-60.d

Analysis Method: BFS Date Collected: 07/06/2022 13:35

Extraction Method: 3535 Date Extracted: 07/19/2022 09:29

Sample wt/vol: 300.1(mL) Date Analyzed: 07/27/2022 21:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	F1	1.2	0.33
STL02887	BFS_A2B3	ND	F1	0.92	0.33
STL02880	BFS_A3B	ND	F1	0.50	0.17
STL02885	BFS_A3B2	ND	F1	0.67	0.17
STL02883	BFS_A4B	ND	F1	0.33	0.17
STL02879	BFS_AB2	ND	F1	0.50	0.067
STL02884	BFS_AB3	ND	F1	1.2	0.33
STL02881	BFS_B3	ND	F1	0.58	0.25
STL02886	BFS_B4	ND	F1	0.92	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-60.d
 Lims ID: 410-90323-A-1-A
 Client ID: MW-112S
 Sample Type: Client
 Inject. Date: 27-Jul-2022 21:59:20 ALS Bottle#: 41 Worklist Smp#: 34
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-034
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:56 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:35:25
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.371 4.369 0.002 0.878 741721 5.06 101 2862
 * 11 13C2 PFOA
 415.00 > 370.00 4.977 4.977 0.0 3273661 5.00 2660

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-60.d

Injection Date: 27-Jul-2022 21:59:20

Instrument ID: 30733

Lims ID: 410-90323-A-1-A

Lab Sample ID: 410-90323-1

Client ID: MW-112S

Operator ID: US19_USR_INS20260

ALS Bottle#: 41

Worklist Smp#: 34

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

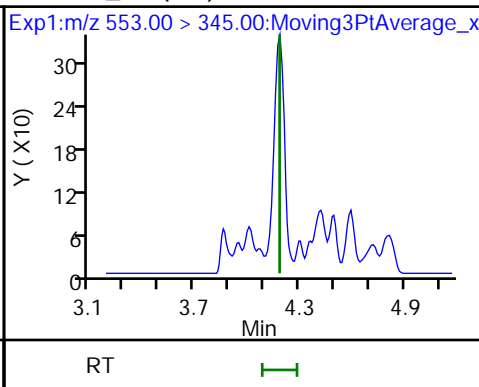
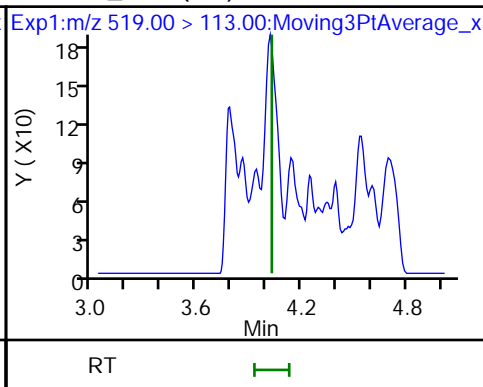
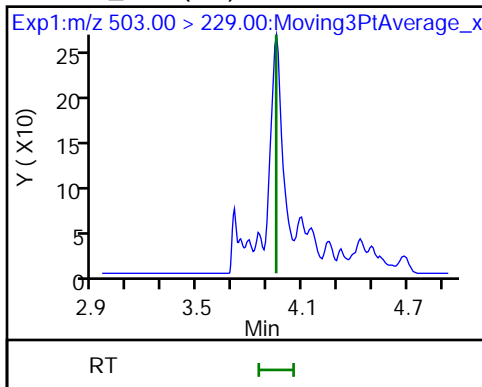
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

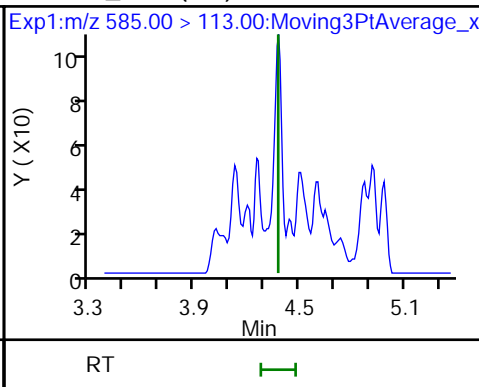
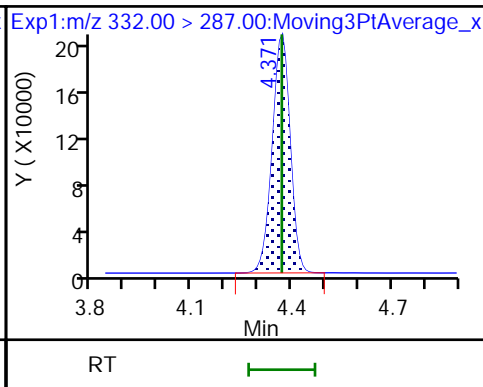
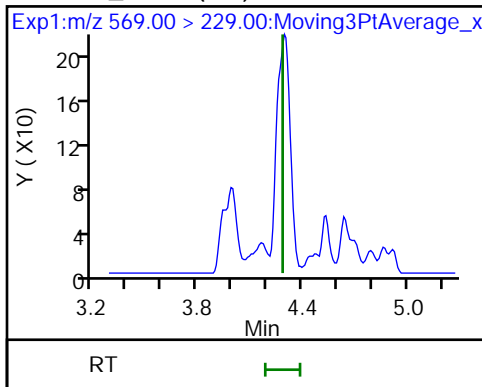
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

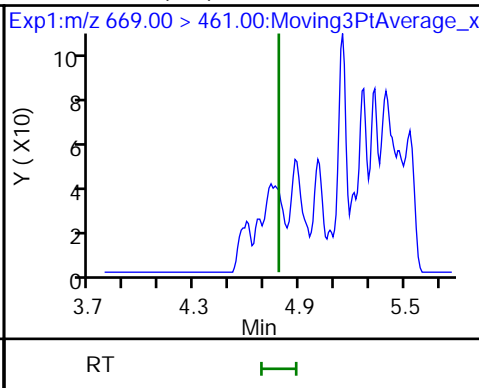
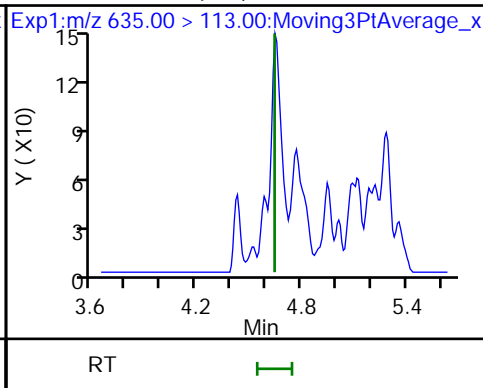
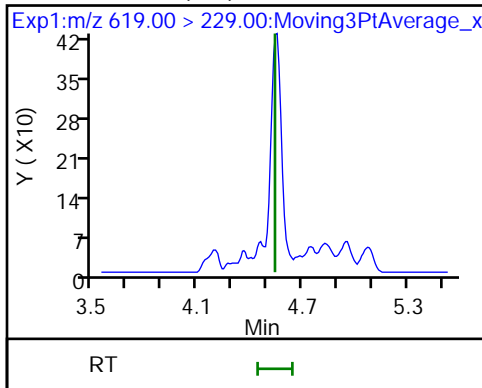
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

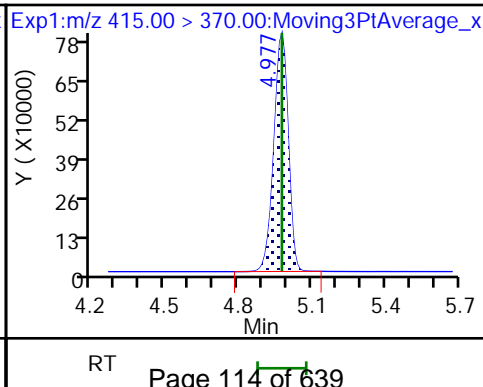
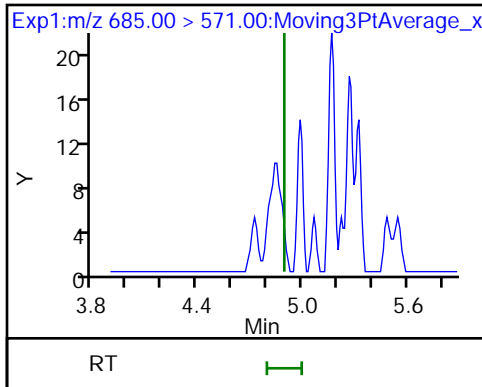
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Client Sample ID: MW-112D

Lab Sample ID: 410-90323-2

Matrix: Water

Lab File ID: 22JUL27BFS-67.d

Analysis Method: BFS

Date Collected: 07/06/2022 15:25

Extraction Method: 3535

Date Extracted: 07/19/2022 09:34

Sample wt/vol: 308.1(mL)

Date Analyzed: 07/27/2022 23:27

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 280078

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	F1	1.1	0.32
STL02887	BFS_A2B3	ND	F1	0.89	0.32
STL02880	BFS_A3B	ND	F1	0.49	0.16
STL02885	BFS_A3B2	ND	F1	0.65	0.16
STL02883	BFS_A4B	ND	F1	0.32	0.16
STL02879	BFS_AB2	ND	F1	0.49	0.065
STL02884	BFS_AB3	ND	F1	1.2	0.32
STL02881	BFS_B3	ND	F1	0.57	0.24
STL02886	BFS_B4	ND	F1	0.89	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-67.d
 Lims ID: 410-90323-A-2-A
 Client ID: MW-112D
 Sample Type: Client
 Inject. Date: 27-Jul-2022 23:27:24 ALS Bottle#: 47 Worklist Smp#: 41
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-041
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:35:57
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.377	4.369	0.008	0.880	719662	5.12	102	2320
* 11 13C2 PFOA	415.00 > 370.00	4.976	4.977	-0.001		3138820	5.00		2371

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-67.d

Injection Date: 27-Jul-2022 23:27:24

Instrument ID: 30733

Lims ID: 410-90323-A-2-A

Lab Sample ID: 410-90323-2

Client ID: MW-112D

Operator ID: US19_USR_INS20260

ALS Bottle#: 47

Worklist Smp#: 41

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

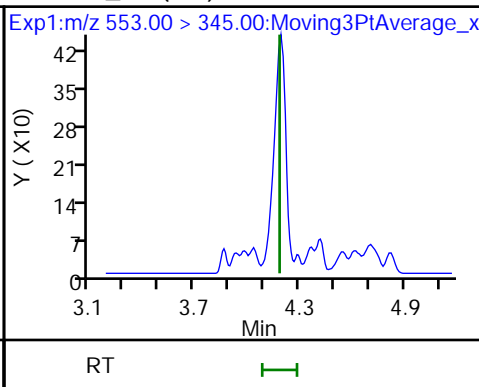
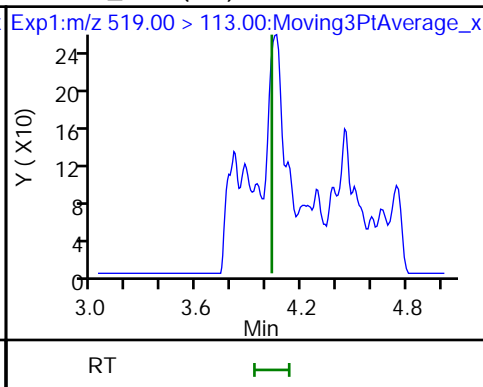
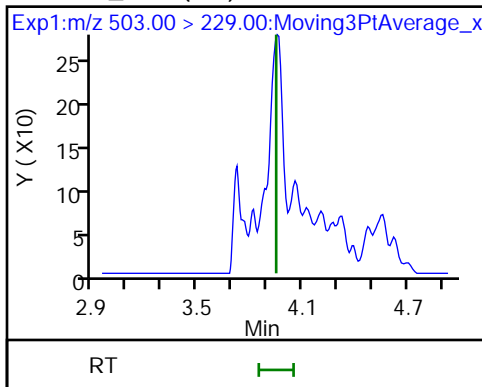
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

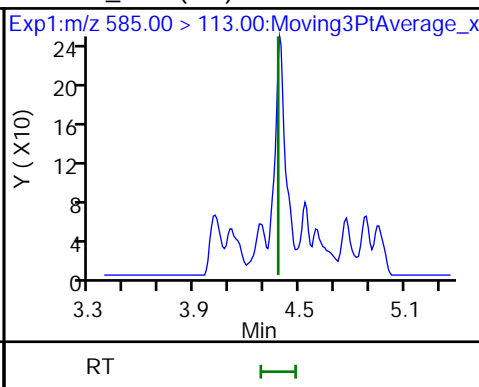
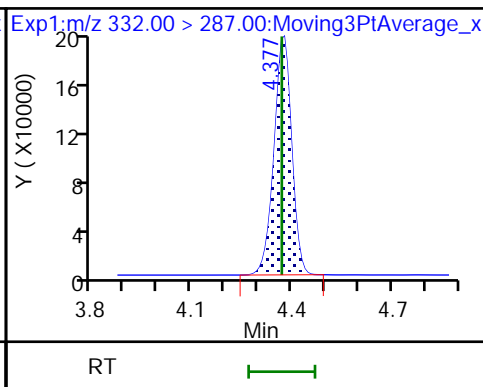
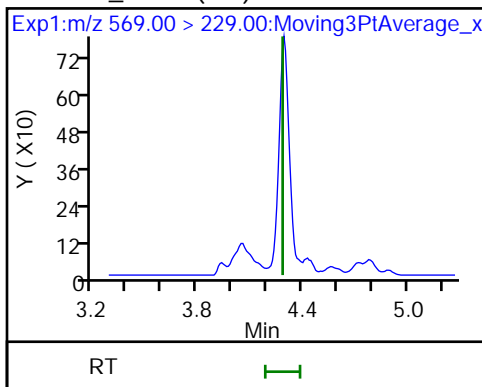
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

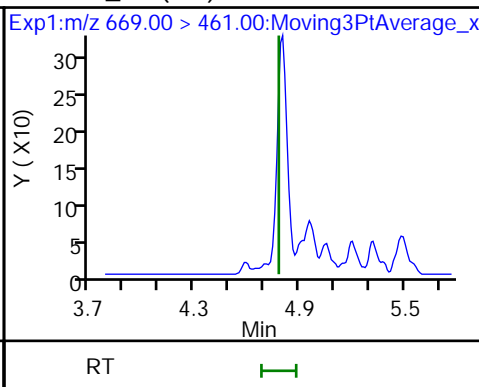
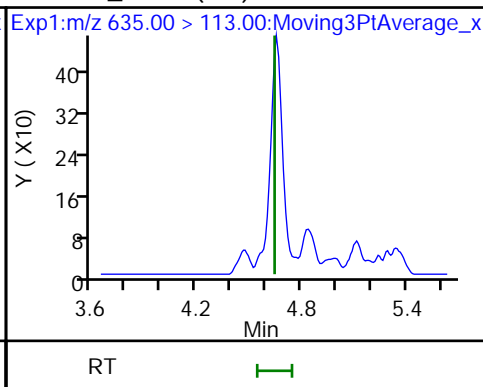
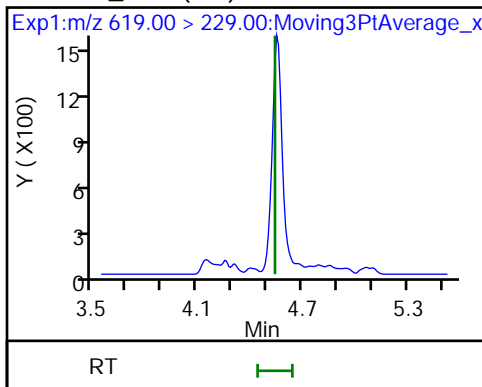
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

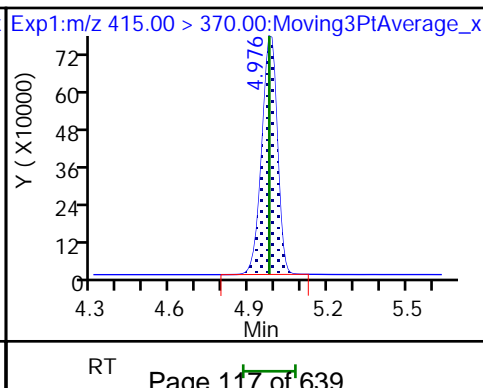
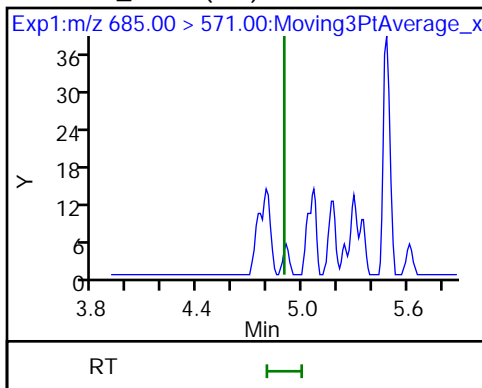
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-103S Lab Sample ID: 410-90323-3

Matrix: Water Lab File ID: 22JUL27BFS-70.d

Analysis Method: BFS Date Collected: 07/06/2022 14:35

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 287.6(mL) Date Analyzed: 07/28/2022 00:05

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.96	0.35
STL02880	BFS_A3B	ND		0.52	0.17
STL02885	BFS_A3B2	ND		0.70	0.17
STL02883	BFS_A4B	ND		0.35	0.17
STL02879	BFS_AB2	0.28	J	0.52	0.070
STL02884	BFS_AB3	0.35	J ^2	1.3	0.35
STL02881	BFS_B3	ND		0.61	0.26
STL02886	BFS_B4	ND		0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-70.d
 Lims ID: 410-90323-A-3-A
 Client ID: MW-103S
 Sample Type: Client
 Inject. Date: 28-Jul-2022 00:05:13 ALS Bottle#: 50 Worklist Smp#: 44
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-3-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-044
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 17:14:34 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1660

First Level Reviewer: UJB7 Date: 28-Jul-2022 17:14:34
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									a
503.00 > 229.00	3.952	3.949	0.003	0.904	13306	0.0791		409	a
2 BFS_A3B									a
519.00 > 113.00	4.034	4.029	0.005	0.922	3025	0.0199		5.1	a
3 BFS_B3									a
553.00 > 345.00	4.190	4.186	0.004	0.958	7769	0.0312		51.8	a
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.374	4.369	0.005	0.879	583698	4.44	88.9	2138	
7 BFS_AB3									a
619.00 > 229.00	4.556	4.542	0.014	1.042	8069	0.0996		50.5	a
* 11 13C2 PFOA									
415.00 > 370.00	4.978	4.977	0.001		2931293	5.00		2544	

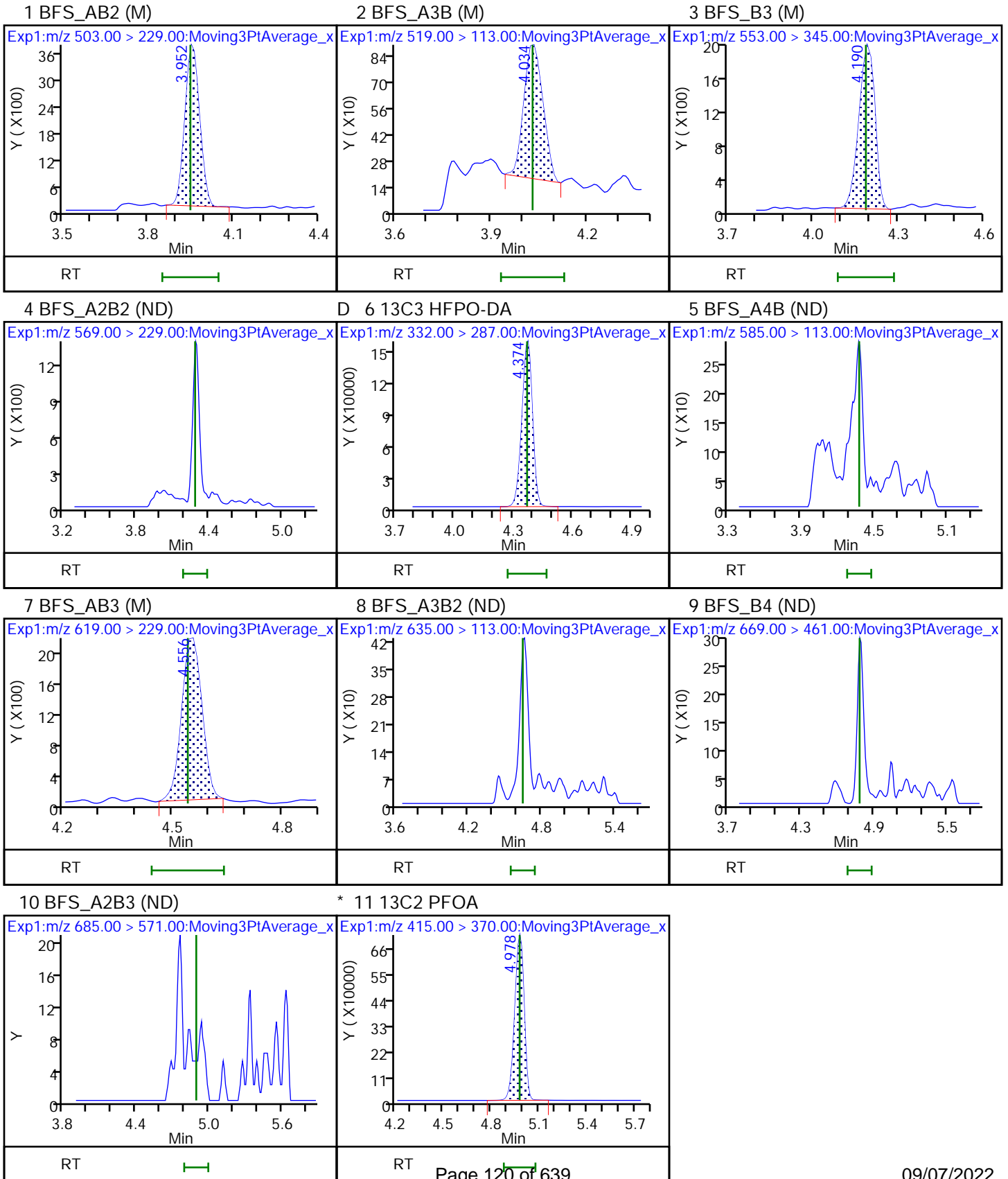
QC Flag Legend

Processing Flags
 Review Flags
 a - User Assigned ID

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-70.d
Injection Date: 28-Jul-2022 00:05:13 Instrument ID: 30733
Lims ID: 410-90323-A-3-A Lab Sample ID: 410-90323-3
Client ID: MW-103S
Operator ID: US19_USR_INS20260 ALS Bottle#: 50 Worklist Smp#: 44
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

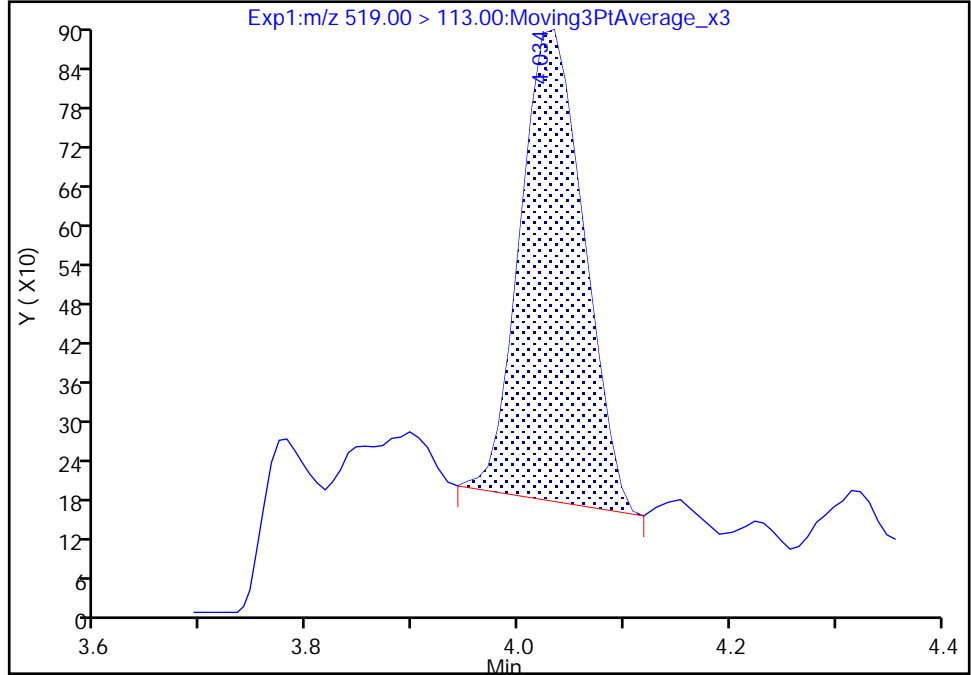
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Injection Date: 28-Jul-2022 00:05:13 Instrument ID: 30733
Lims ID: 410-90323-A-3-A Lab Sample ID: 410-90323-3
Client ID: MW-103S
Operator ID: US19_USR_INS20260 ALS Bottle#: 50 Worklist Smp#: 44
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

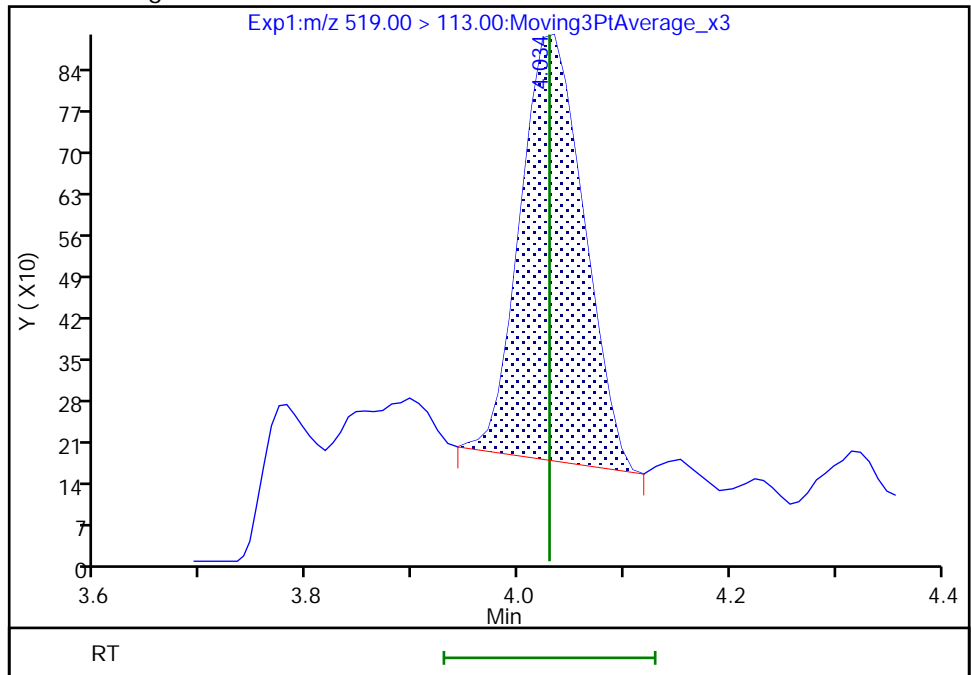
RT: 4.03
Area: 3025
Amount: 0.019931
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 3025
Amount: 0.019931
Amount Units: ng/ml

Manual Integration Results



Reviewer: UJB7, 28-Jul-2022 17:13:32
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

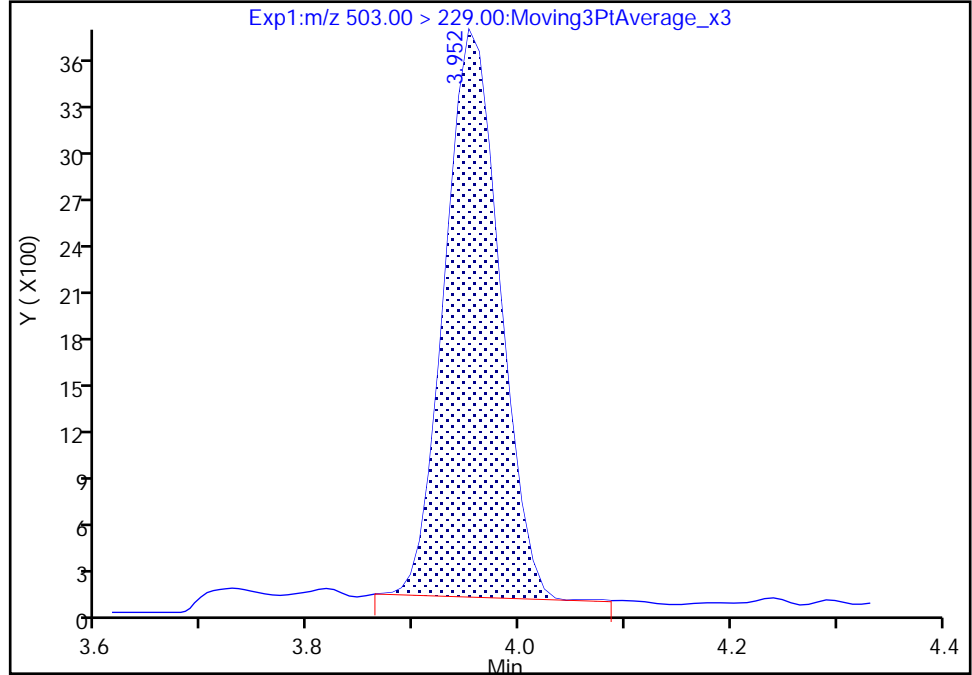
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Injection Date: 28-Jul-2022 00:05:13 Instrument ID: 30733
Lims ID: 410-90323-A-3-A Lab Sample ID: 410-90323-3
Client ID: MW-103S
Operator ID: US19_USR_INS20260 ALS Bottle#: 50 Worklist Smp#: 44
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

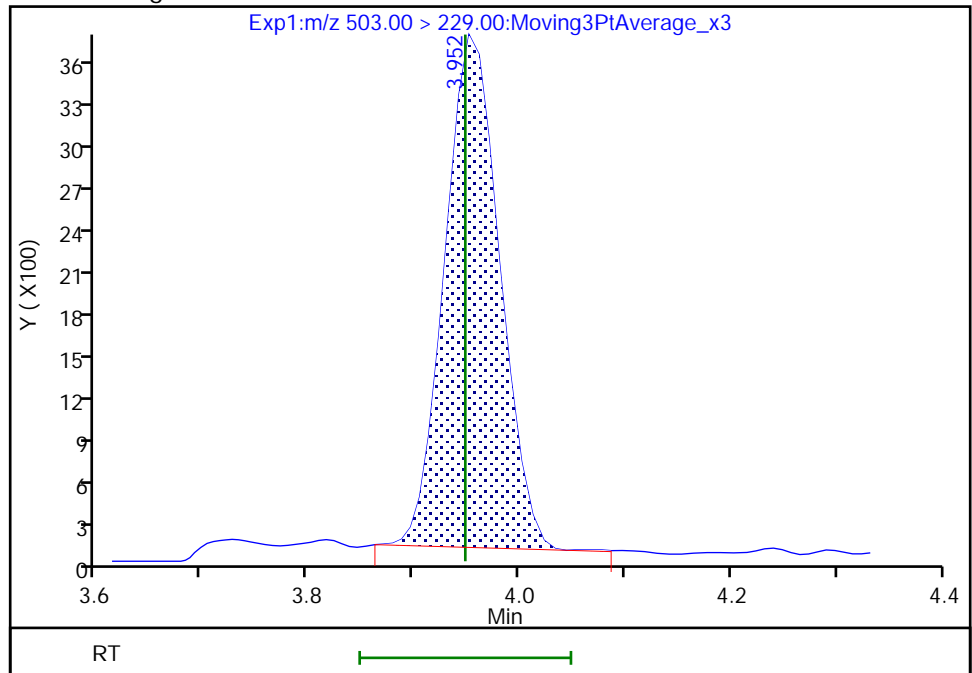
RT: 3.95
Area: 13306
Amount: 0.079139
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 13306
Amount: 0.079139
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

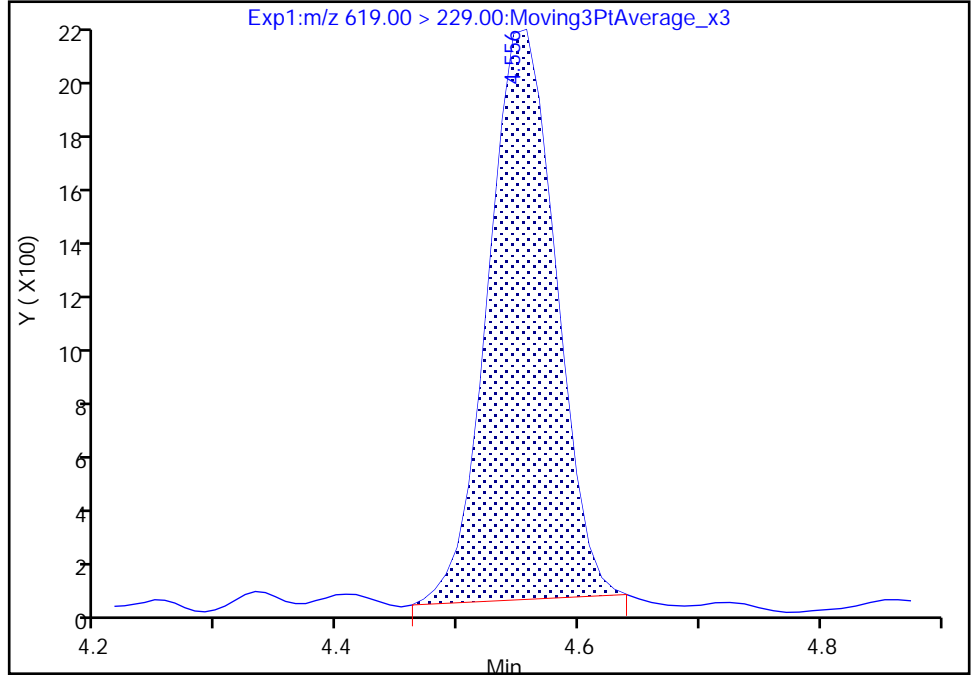
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Injection Date: 28-Jul-2022 00:05:13 Instrument ID: 30733
Lims ID: 410-90323-A-3-A Lab Sample ID: 410-90323-3
Client ID: MW-103S
Operator ID: US19_USR_INS20260 ALS Bottle#: 50 Worklist Smp#: 44
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

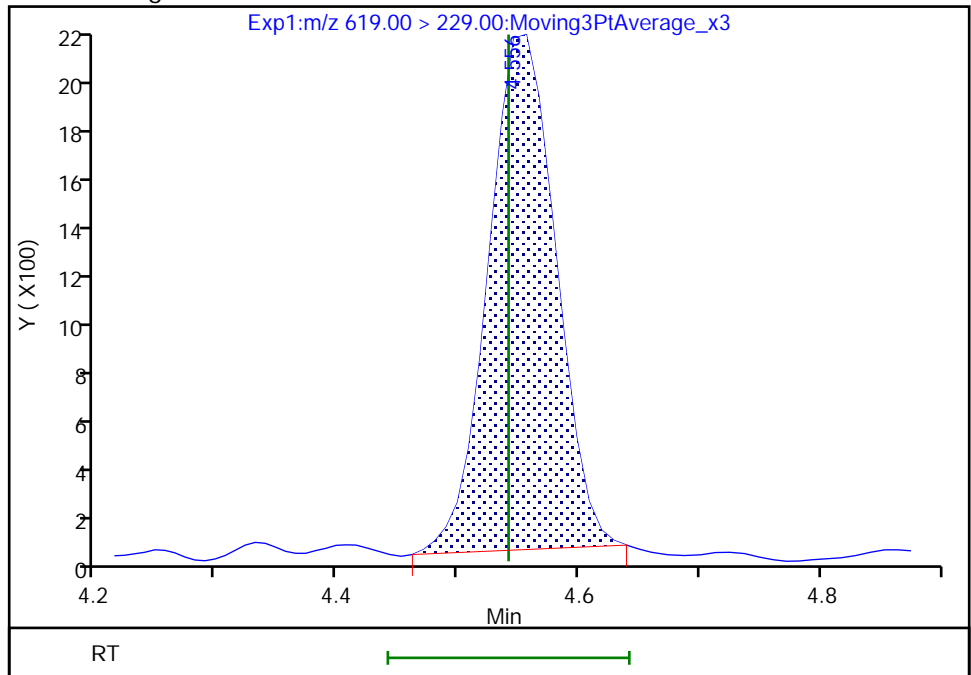
RT: 4.56
Area: 8069
Amount: 0.099648
Amount Units: ng/ml

Processing Integration Results



RT: 4.56
Area: 8069
Amount: 0.099648
Amount Units: ng/ml

Manual Integration Results



Reviewer: UJB7, 28-Jul-2022 17:14:19
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

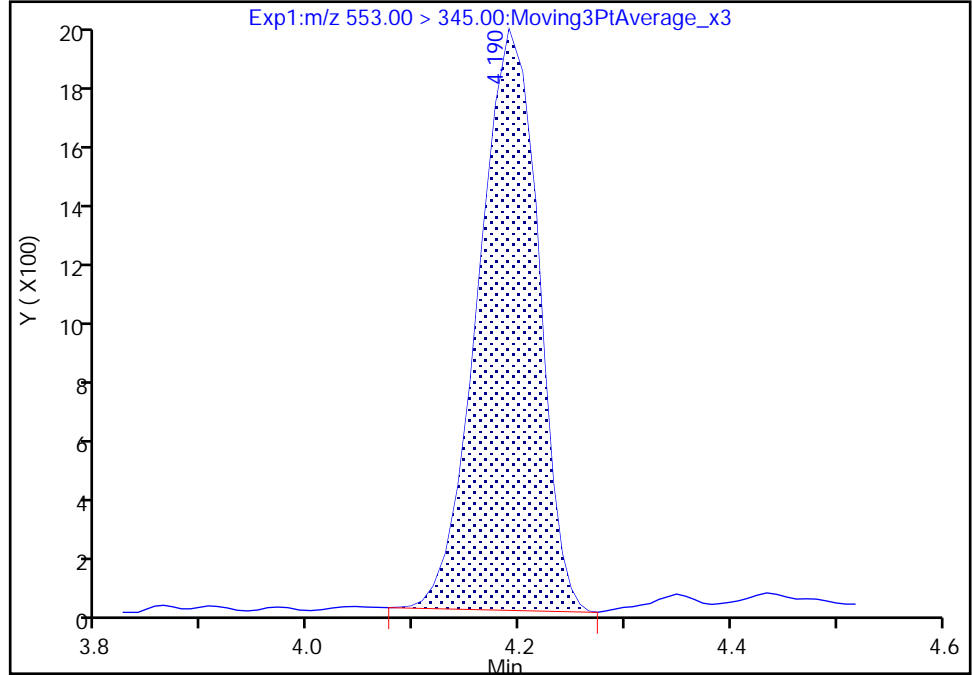
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Injection Date: 28-Jul-2022 00:05:13 Instrument ID: 30733
Lims ID: 410-90323-A-3-A Lab Sample ID: 410-90323-3
Client ID: MW-103S
Operator ID: US19_USR_INS20260 ALS Bottle#: 50 Worklist Smp#: 44
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

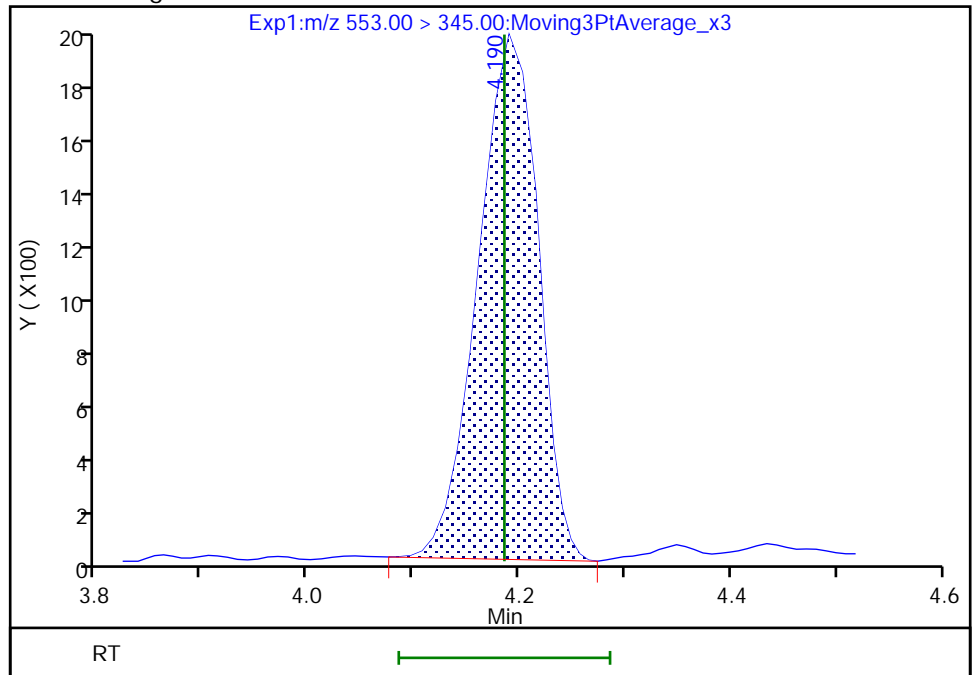
RT: 4.19
Area: 7769
Amount: 0.031225
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 7769
Amount: 0.031225
Amount Units: ng/ml

Manual Integration Results



Reviewer: UJB7, 28-Jul-2022 17:13:39
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: FB_070622 Lab Sample ID: 410-90323-4

Matrix: Water Lab File ID: 22JUL27BFS-71.d

Analysis Method: BFS Date Collected: 07/06/2022 14:30

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 286.9(mL) Date Analyzed: 07/28/2022 00:17

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.96	0.35
STL02880	BFS_A3B	ND		0.52	0.17
STL02885	BFS_A3B2	ND		0.70	0.17
STL02883	BFS_A4B	ND		0.35	0.17
STL02879	BFS_AB2	ND		0.52	0.070
STL02884	BFS_AB3	ND		1.3	0.35
STL02881	BFS_B3	ND		0.61	0.26
STL02886	BFS_B4	ND		0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-71.d
 Lims ID: 410-90323-A-4-A
 Client ID: FB_070622
 Sample Type: Client
 Inject. Date: 28-Jul-2022 00:17:47 ALS Bottle#: 51 Worklist Smp#: 45
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-4-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-045
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:36:40
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA									
332.00 > 287.00	4.366	4.369	-0.003	0.878	861628	5.64	113	2932	
* 11 13C2 PFOA									
415.00 > 370.00	4.972	4.977	-0.005		3408650	5.00		2635	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-71.d

Injection Date: 28-Jul-2022 00:17:47

Instrument ID: 30733

Lims ID: 410-90323-A-4-A

Lab Sample ID: 410-90323-4

Client ID: FB_070622

Operator ID: US19_USR_INS20260

ALS Bottle#: 51

Worklist Smp#: 45

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

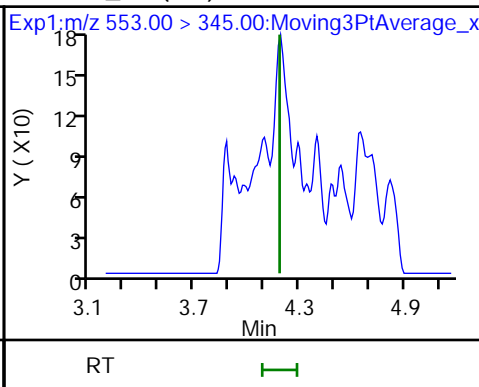
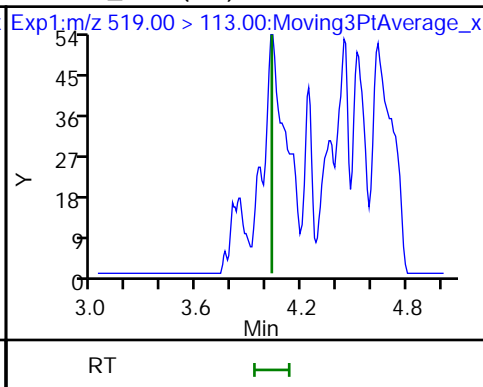
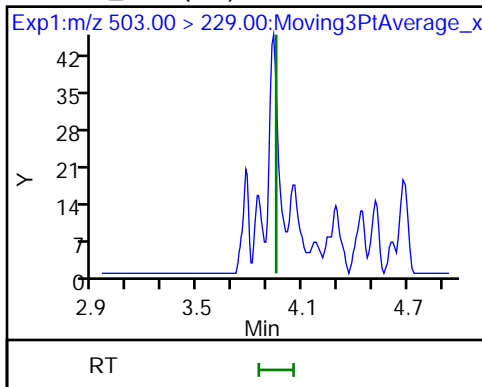
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

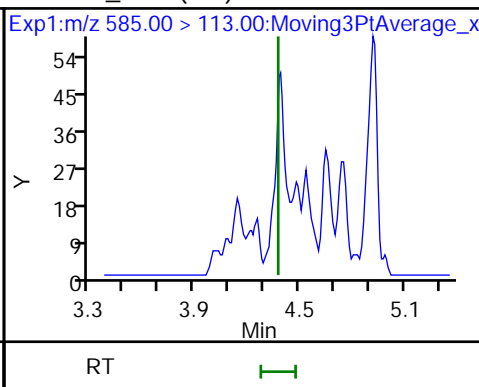
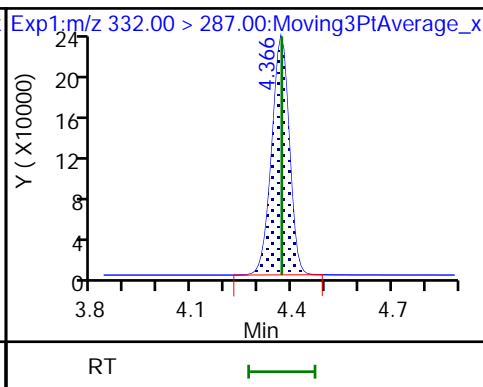
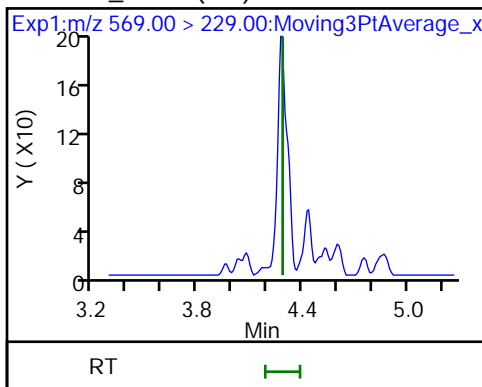
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

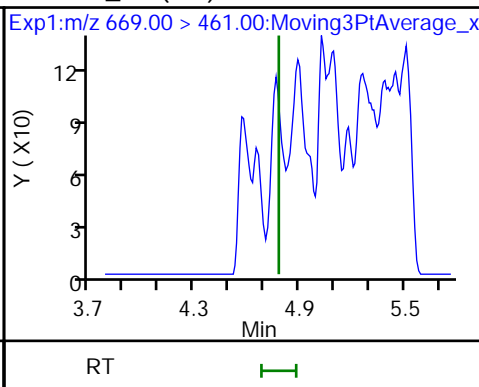
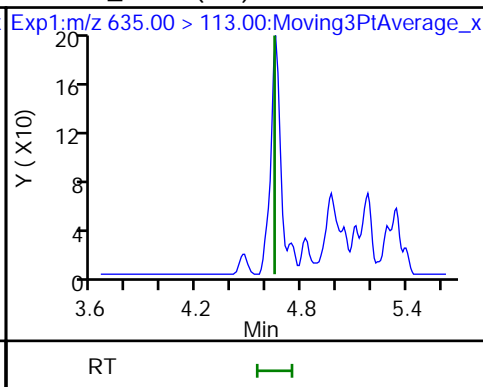
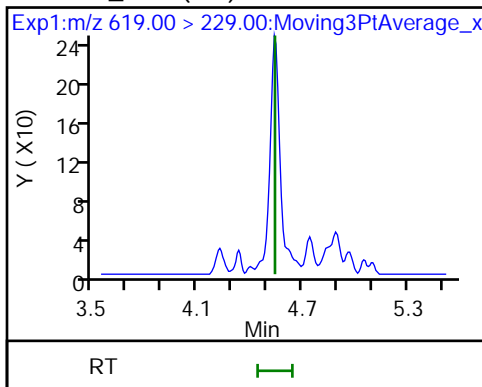
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

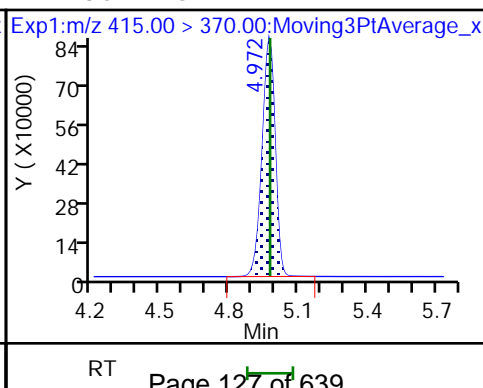
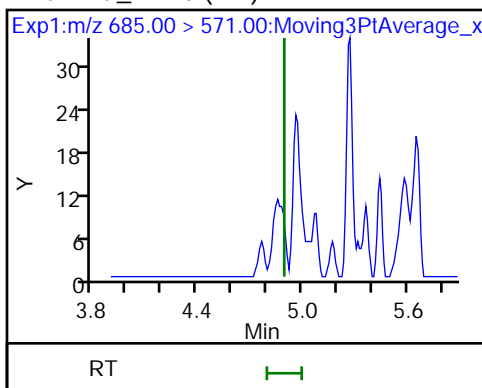
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_070622 Lab Sample ID: 410-90323-5

Matrix: Water Lab File ID: 22JUL27BFS-72.d

Analysis Method: BFS Date Collected: 07/06/2022 14:35

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 269.2 (mL) Date Analyzed: 07/28/2022 00:30

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.3	0.37
STL02887	BFS_A2B3	ND		1.0	0.37
STL02880	BFS_A3B	ND		0.56	0.19
STL02885	BFS_A3B2	ND		0.74	0.19
STL02883	BFS_A4B	ND		0.37	0.19
STL02879	BFS_AB2	ND		0.56	0.074
STL02884	BFS_AB3	ND		1.4	0.37
STL02881	BFS_B3	ND		0.65	0.28
STL02886	BFS_B4	ND		1.0	0.37

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-72.d
 Lims ID: 410-90323-A-5-A
 Client ID: EB_070622
 Sample Type: Client
 Inject. Date: 28-Jul-2022 00:30:22 ALS Bottle#: 52 Worklist Smp#: 46
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-5-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-046
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:36:47
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA									
332.00 > 287.00	4.365	4.369	-0.004	0.879	829855	5.42	108	2678	
* 11 13C2 PFOA									
415.00 > 370.00	4.968	4.977	-0.009		3416741	5.00		3004	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-72.d

Injection Date: 28-Jul-2022 00:30:22

Instrument ID: 30733

Lims ID: 410-90323-A-5-A

Lab Sample ID: 410-90323-5

Client ID: EB_070622

Operator ID: US19_USR_INS20260

ALS Bottle#: 52

Worklist Smp#: 46

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

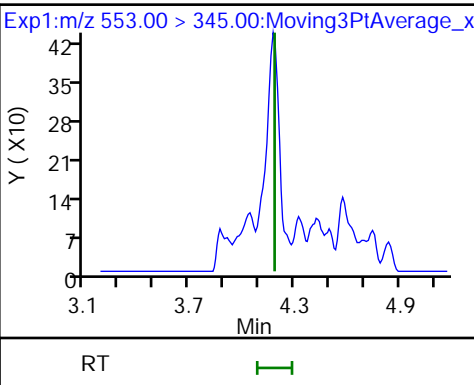
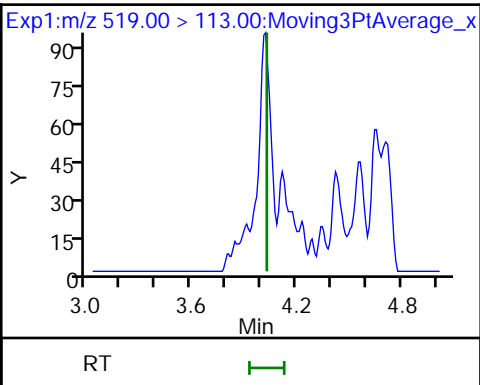
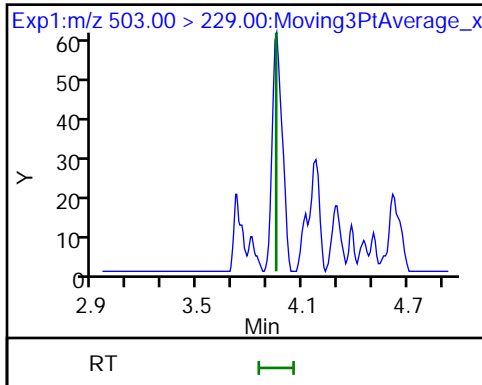
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

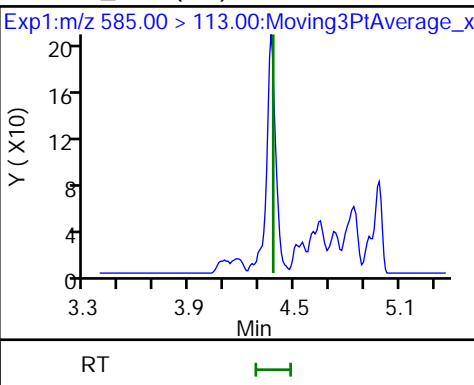
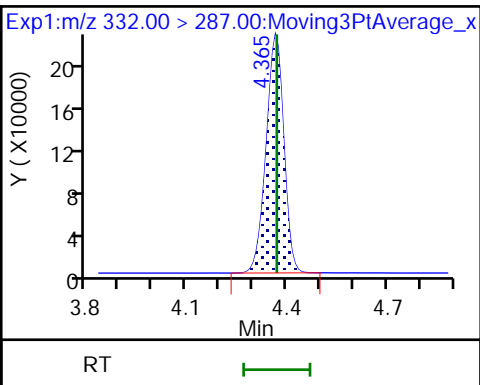
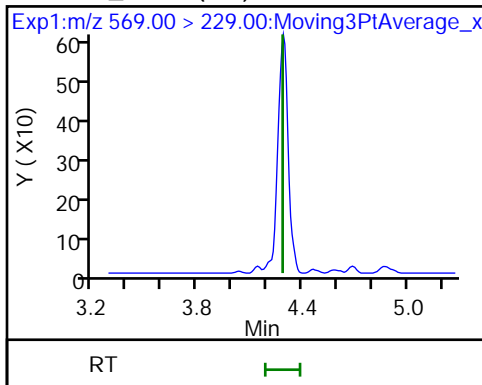
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

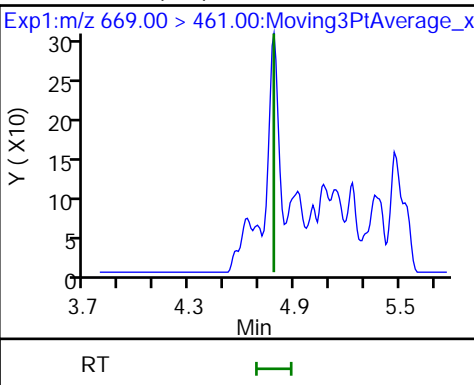
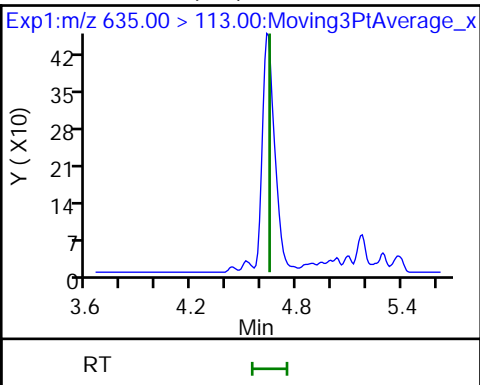
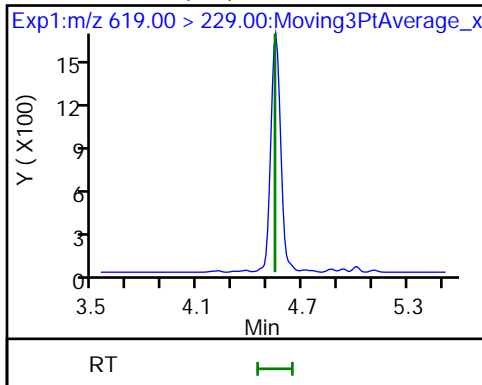
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

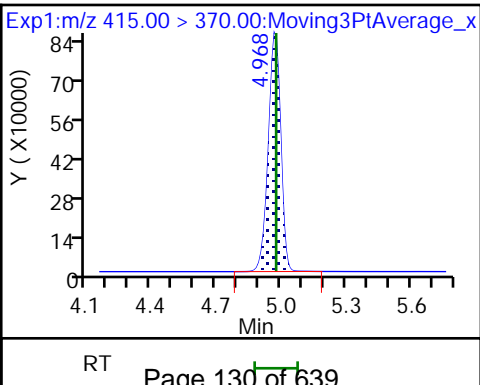
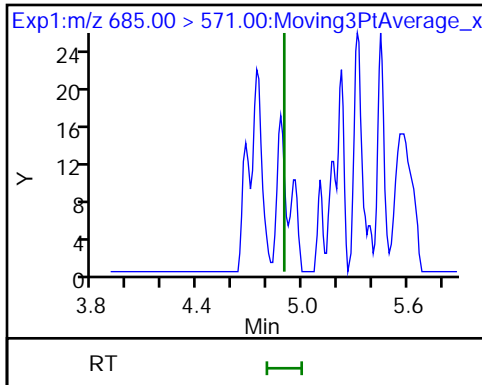
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP1_070622 Lab Sample ID: 410-90323-6

Matrix: Water Lab File ID: 22JUL27BFS-73.d

Analysis Method: BFS Date Collected: 07/06/2022 00:00

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 309.6(mL) Date Analyzed: 07/28/2022 00:42

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.1	0.32
STL02887	BFS_A2B3	ND		0.89	0.32
STL02880	BFS_A3B	ND		0.48	0.16
STL02885	BFS_A3B2	ND		0.65	0.16
STL02883	BFS_A4B	ND		0.32	0.16
STL02879	BFS_AB2	ND		0.48	0.065
STL02884	BFS_AB3	ND		1.2	0.32
STL02881	BFS_B3	ND		0.57	0.24
STL02886	BFS_B4	ND		0.89	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-73.d
 Lims ID: 410-90323-A-6-A
 Client ID: DUP1_070622
 Sample Type: Client
 Inject. Date: 28-Jul-2022 00:42:59 ALS Bottle#: 53 Worklist Smp#: 47
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-6-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-047
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:36:55
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.369 4.369 0.0 0.878 790166 5.59 112 2602
 * 11 13C2 PFOA
 415.00 > 370.00 4.976 4.977 -0.001 3152435 5.00 2108

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-73.d

Injection Date: 28-Jul-2022 00:42:59

Instrument ID: 30733

Lims ID: 410-90323-A-6-A

Lab Sample ID: 410-90323-6

Client ID: DUP1_070622

Operator ID: US19_USR_INS20260

ALS Bottle#: 53

Worklist Smp#: 47

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

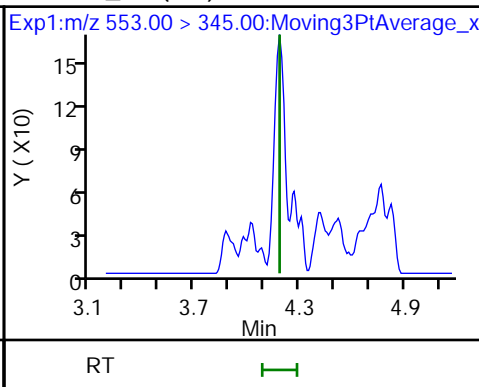
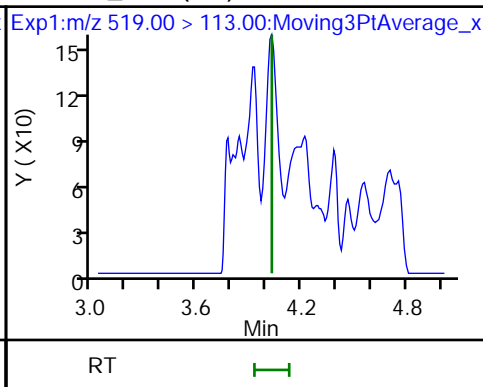
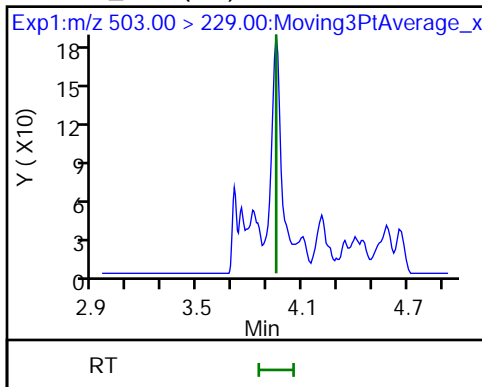
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

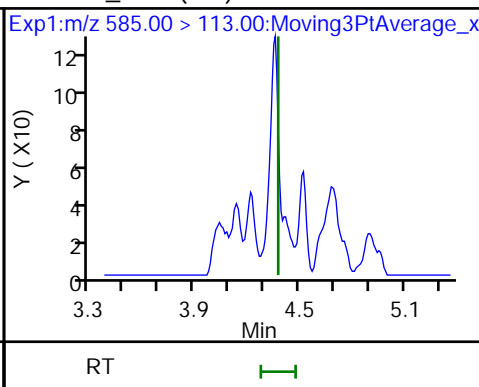
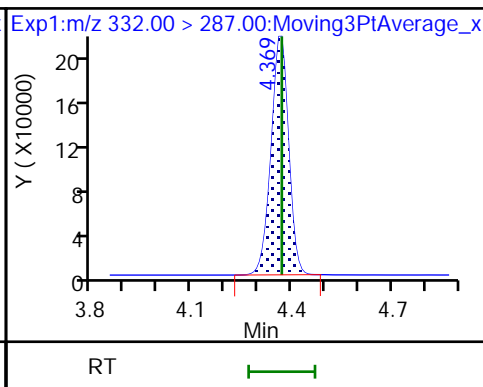
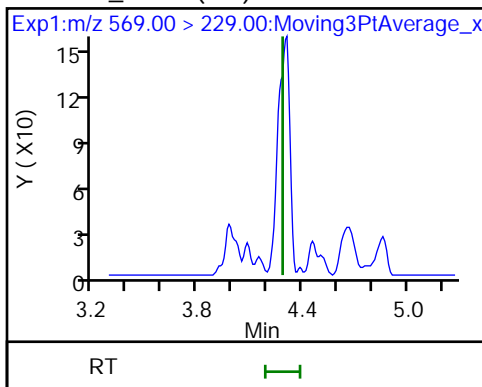
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

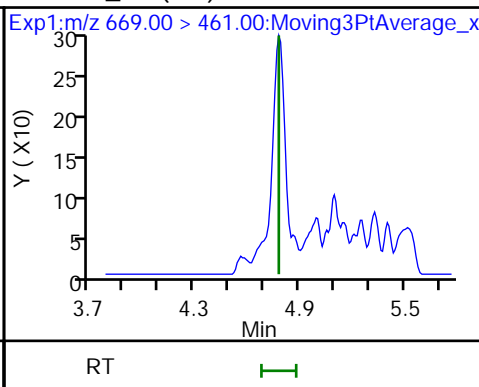
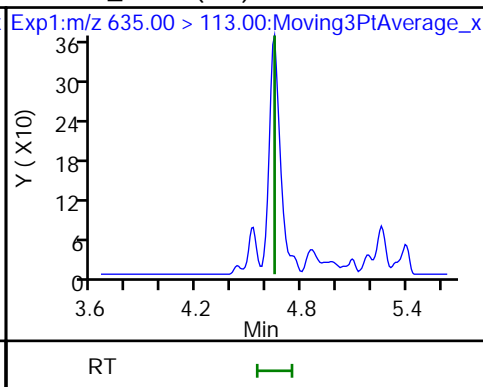
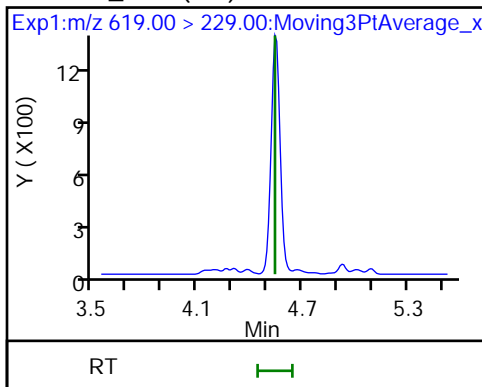
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

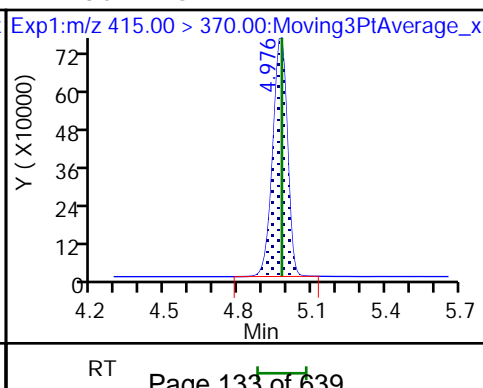
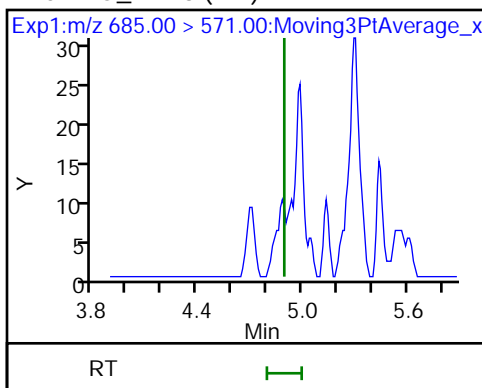
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106D Lab Sample ID: 410-90323-7

Matrix: Water Lab File ID: 22JUL27BFS-53.d

Analysis Method: BFS Date Collected: 07/07/2022 11:20

Extraction Method: 3535 Date Extracted: 07/19/2022 09:26

Sample wt/vol: 310.2 (mL) Date Analyzed: 07/27/2022 20:29

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	F1	1.1	0.32
STL02887	BFS_A2B3	ND	F1	0.89	0.32
STL02880	BFS_A3B	ND	F1	0.48	0.16
STL02885	BFS_A3B2	ND	F1	0.64	0.16
STL02883	BFS_A4B	ND	F1	0.32	0.16
STL02879	BFS_AB2	ND	F1	0.48	0.064
STL02884	BFS_AB3	ND	F1	1.2	0.32
STL02881	BFS_B3	ND	F1	0.56	0.24
STL02886	BFS_B4	ND	F1	0.89	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-53.d
 Lims ID: 410-90323-A-7-A
 Client ID: MW-106D
 Sample Type: Client
 Inject. Date: 27-Jul-2022 20:29:59 ALS Bottle#: 35 Worklist Smp#: 27
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-7-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-027
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:32:04
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.375 4.369 0.006 0.878 675721 4.83 96.7 3766
 * 11 13C2 PFOA
 415.00 > 370.00 4.981 4.977 0.004 3120063 5.00 3025

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-53.d

Injection Date: 27-Jul-2022 20:29:59

Instrument ID: 30733

Lims ID: 410-90323-A-7-A

Lab Sample ID: 410-90323-7

Client ID: MW-106D

Operator ID: US19_USR_INS20260

ALS Bottle#: 35

Worklist Smp#: 27

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

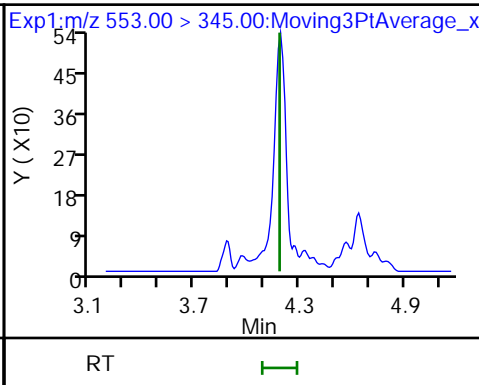
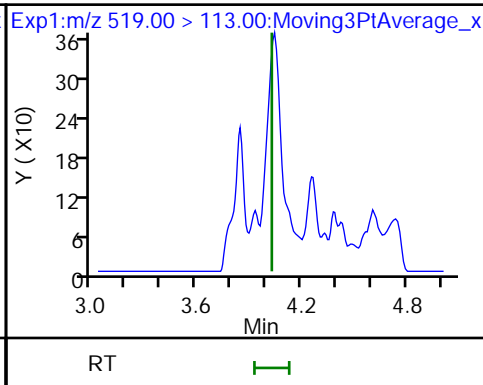
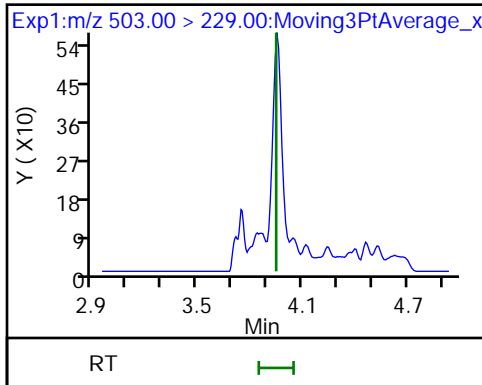
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

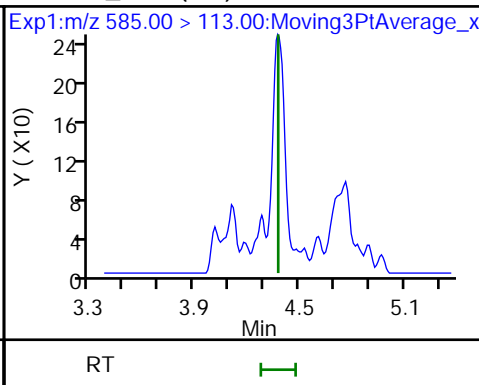
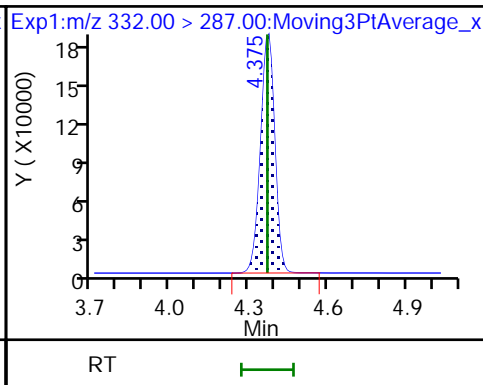
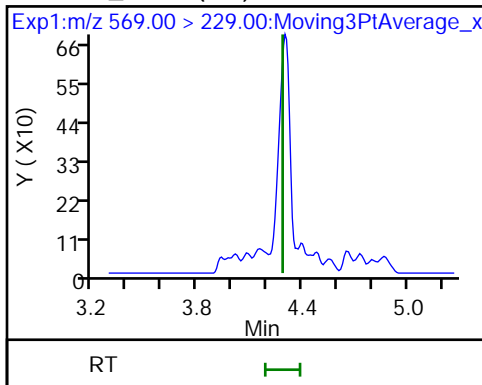
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

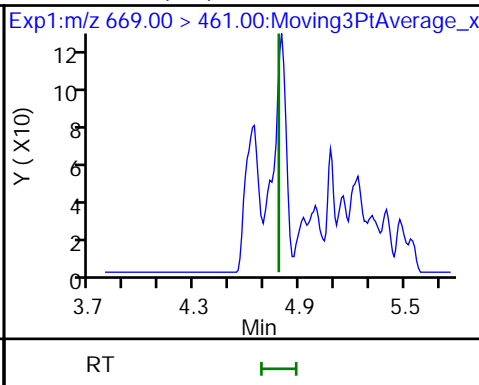
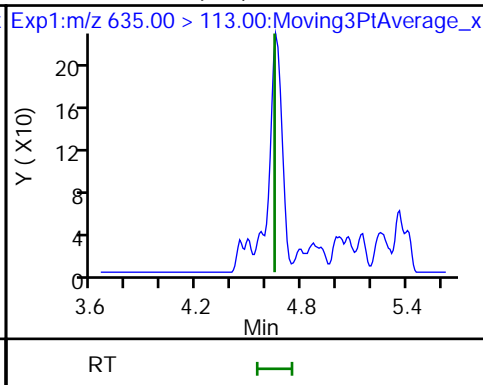
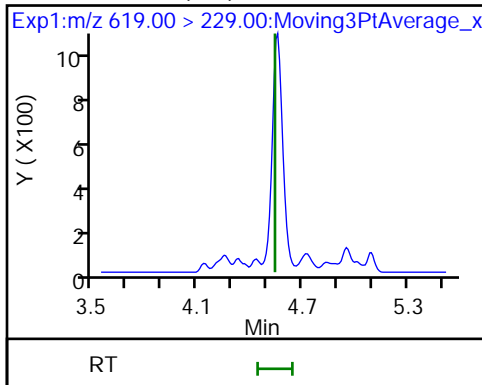
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

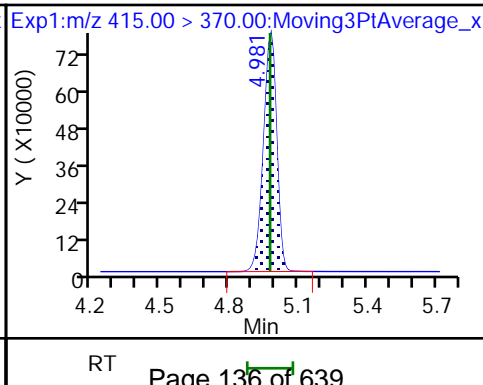
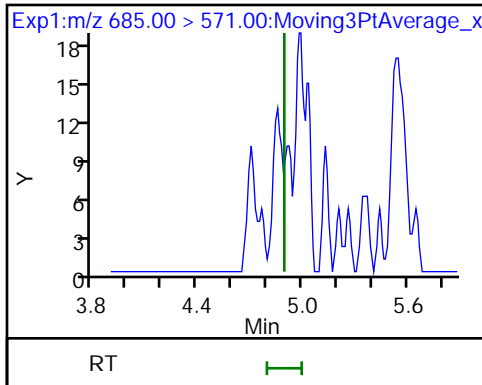
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S Lab Sample ID: 410-90323-8

Matrix: Water Lab File ID: 22JUL27BFS-40.d

Analysis Method: BFS Date Collected: 07/07/2022 11:35

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 287.5(mL) Date Analyzed: 07/27/2022 17:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	F1	1.2	0.35
STL02887	BFS_A2B3	ND	F1	0.96	0.35
STL02880	BFS_A3B	ND	F1	0.52	0.17
STL02885	BFS_A3B2	ND	F1	0.70	0.17
STL02883	BFS_A4B	ND	F1	0.35	0.17
STL02879	BFS_AB2	ND	F1	0.52	0.070
STL02884	BFS_AB3	ND	F1	1.3	0.35
STL02881	BFS_B3	ND	F1	0.61	0.26
STL02886	BFS_B4	ND	F1	0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-40.d
 Lims ID: 410-90323-A-8-A
 Client ID: MW-106S
 Sample Type: Client
 Inject. Date: 27-Jul-2022 17:46:17 ALS Bottle#: 23 Worklist Smp#: 14
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-8-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:10 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:13:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.369 4.369 0.0 0.878 512467 4.11 82.2 3685
 * 11 13C2 PFOA
 415.00 > 370.00 4.976 4.977 -0.001 2781129 5.00 4029

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-40.d

Injection Date: 27-Jul-2022 17:46:17

Instrument ID: 30733

Lims ID: 410-90323-A-8-A

Lab Sample ID: 410-90323-8

Client ID: MW-106S

Operator ID: US19_USR_INS20260

ALS Bottle#: 23

Worklist Smp#: 14

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

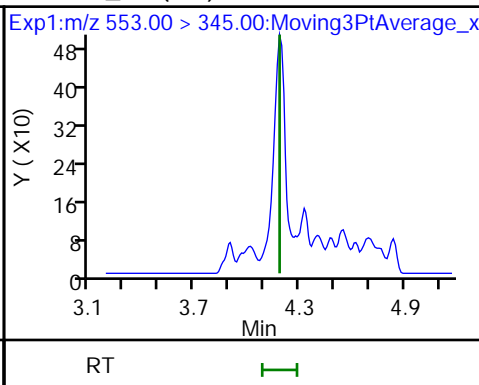
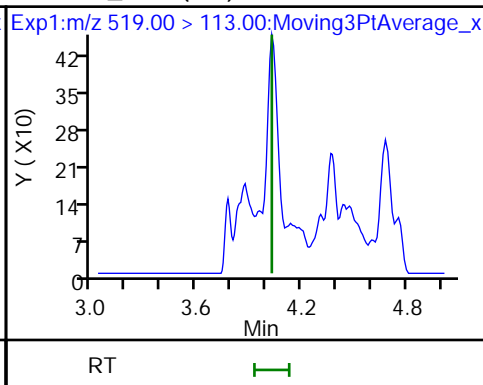
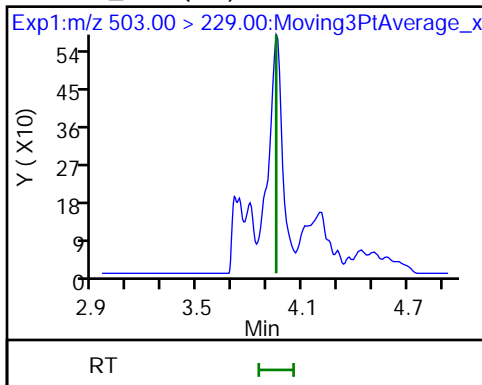
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

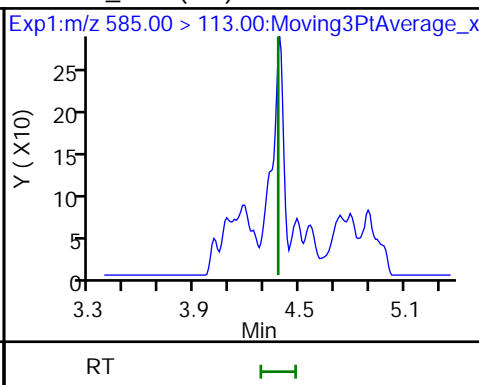
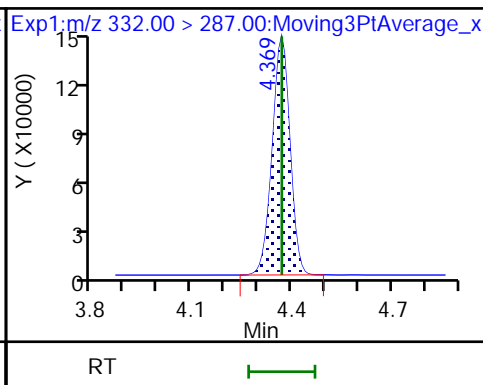
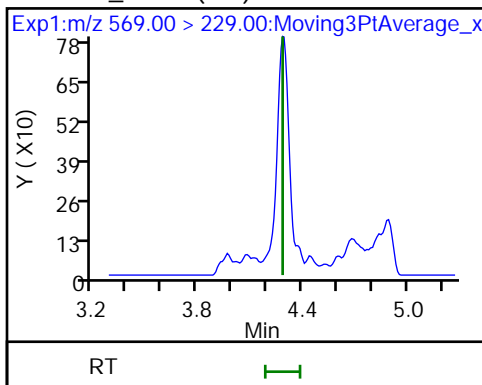
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

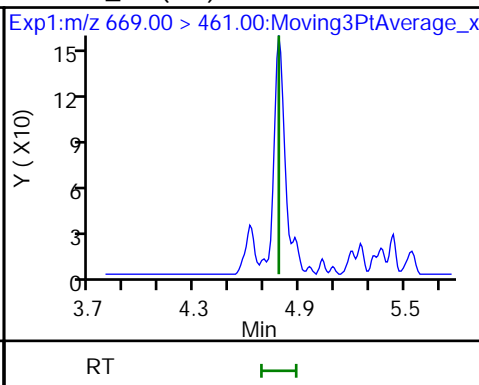
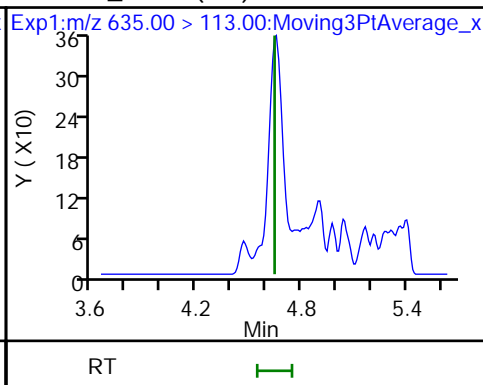
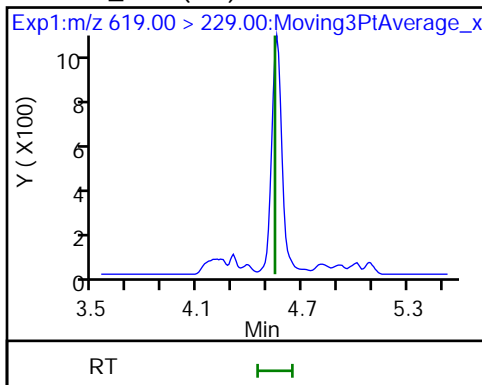
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

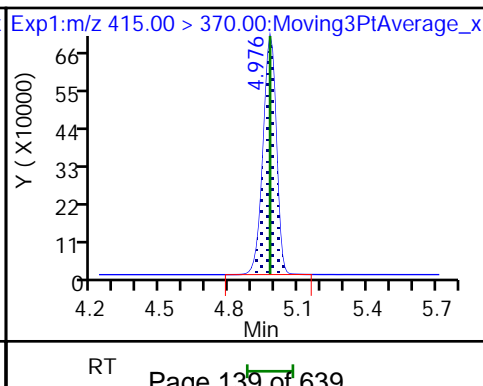
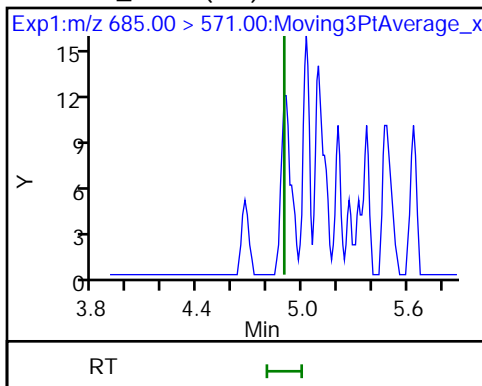
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-103D Lab Sample ID: 410-90323-9

Matrix: Water Lab File ID: 22JUL27BFS-43.d

Analysis Method: BFS Date Collected: 07/07/2022 10:30

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 283.2(mL) Date Analyzed: 07/27/2022 18:24

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	11		1.2	0.35
STL02887	BFS_A2B3	ND		0.97	0.35
STL02880	BFS_A3B	1.6		0.53	0.18
STL02885	BFS_A3B2	2.1		0.71	0.18
STL02883	BFS_A4B	0.92		0.35	0.18
STL02879	BFS_AB2	1.6		0.53	0.071
STL02884	BFS_AB3	12	^2	1.3	0.35
STL02881	BFS_B3	5.4		0.62	0.26
STL02886	BFS_B4	2.7		0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-43.d
 Lims ID: 410-90323-A-9-A
 Client ID: MW-103D
 Sample Type: Client
 Inject. Date: 27-Jul-2022 18:24:03 ALS Bottle#: 26 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-9-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:29:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.955	3.949	0.006	0.905	92975	0.4544	2610	
2 BFS_A3B	519.00 > 113.00	4.026	4.029	-0.003	0.921	103012	0.4613	160	
3 BFS_B3	553.00 > 345.00	4.181	4.186	-0.005	0.957	173273	1.53	896	
4 BFS_A2B2	569.00 > 229.00	4.294	4.286	0.008	0.983	250706	3.22	1026	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.878	577508	4.22	84.4	3189
5 BFS_A4B	585.00 > 113.00	4.378	4.378	0.0	1.002	63517	0.2614	386	
7 BFS_AB3	619.00 > 229.00	4.552	4.542	0.010	1.042	321904	3.27	1247	
8 BFS_A3B2	635.00 > 113.00	4.645	4.645	0.0	1.063	107241	0.5914	639	
9 BFS_B4	669.00 > 461.00	4.792	4.781	0.011	1.097	45926	0.7695	452	
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.977	0.0		3054634	5.00	3647	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-43.d

Injection Date: 27-Jul-2022 18:24:03

Instrument ID: 30733

Lims ID: 410-90323-A-9-A

Lab Sample ID: 410-90323-9

Client ID: MW-103D

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 17

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

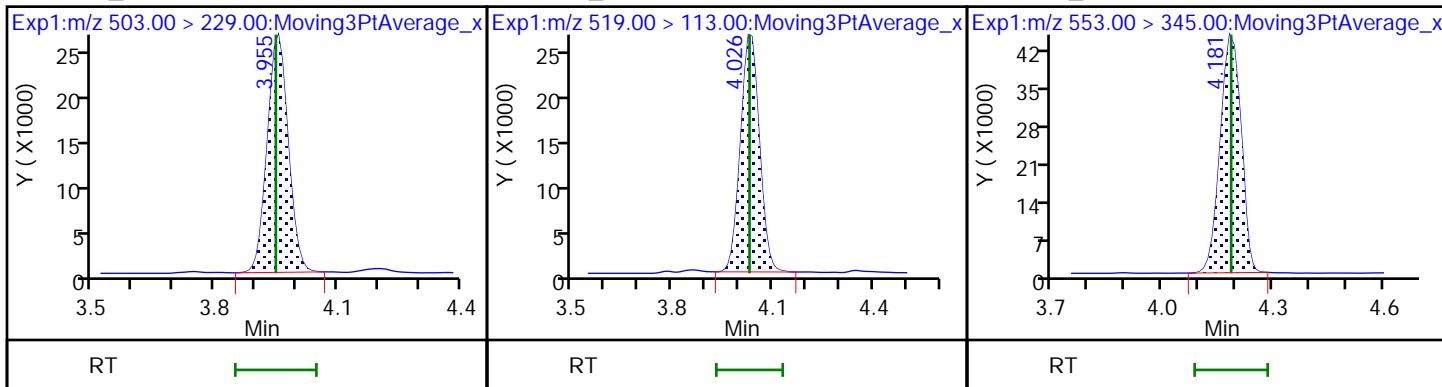
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

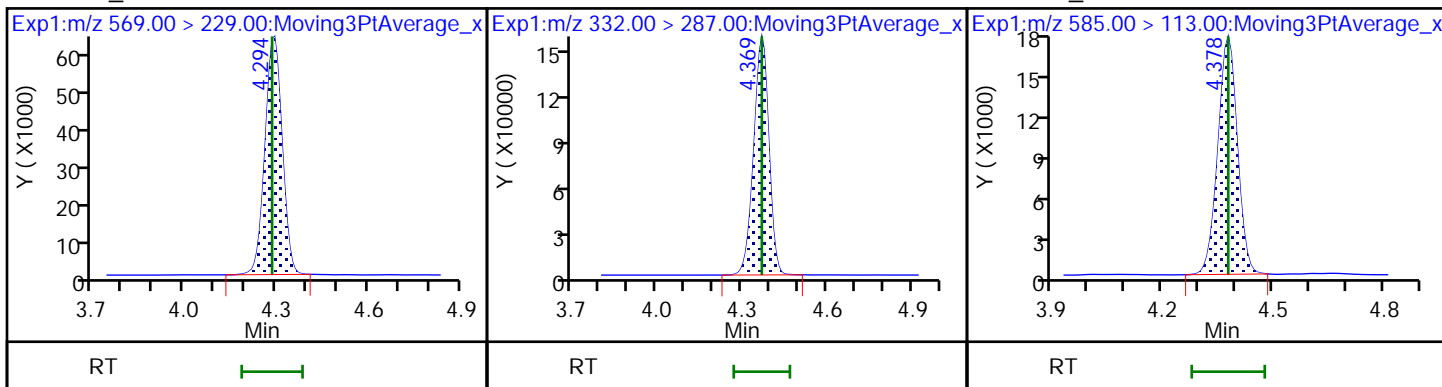
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

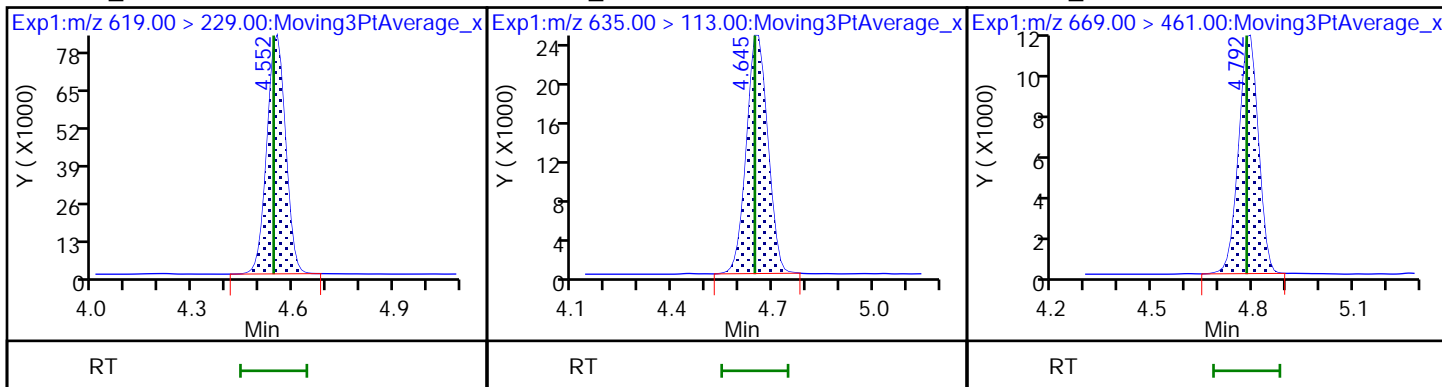
5 BFS_A4B



7 BFS_AB3

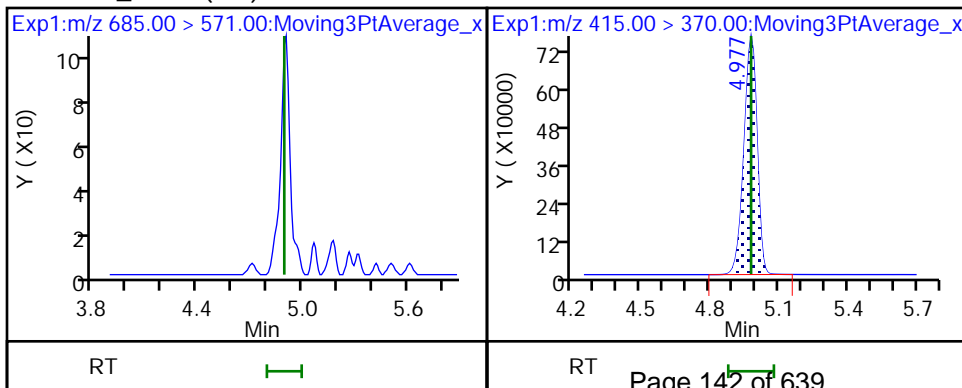
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-113D Lab Sample ID: 410-90323-10

Matrix: Water Lab File ID: 22JUL27BFS-44.d

Analysis Method: BFS Date Collected: 07/07/2022 13:30

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 313.3(mL) Date Analyzed: 07/27/2022 18:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.1	0.32
STL02887	BFS_A2B3	ND		0.88	0.32
STL02880	BFS_A3B	ND		0.48	0.16
STL02885	BFS_A3B2	ND		0.64	0.16
STL02883	BFS_A4B	ND		0.32	0.16
STL02879	BFS_AB2	ND		0.48	0.064
STL02884	BFS_AB3	ND		1.2	0.32
STL02881	BFS_B3	ND		0.56	0.24
STL02886	BFS_B4	ND		0.88	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-44.d
 Lims ID: 410-90323-A-10-A
 Client ID: MW-113D
 Sample Type: Client
 Inject. Date: 27-Jul-2022 18:36:41 ALS Bottle#: 27 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-10-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:29:38
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.372 4.369 0.003 0.878 678030 4.73 94.6 2732
 * 11 13C2 PFOA
 415.00 > 370.00 4.978 4.977 0.001 3198367 5.00 3841

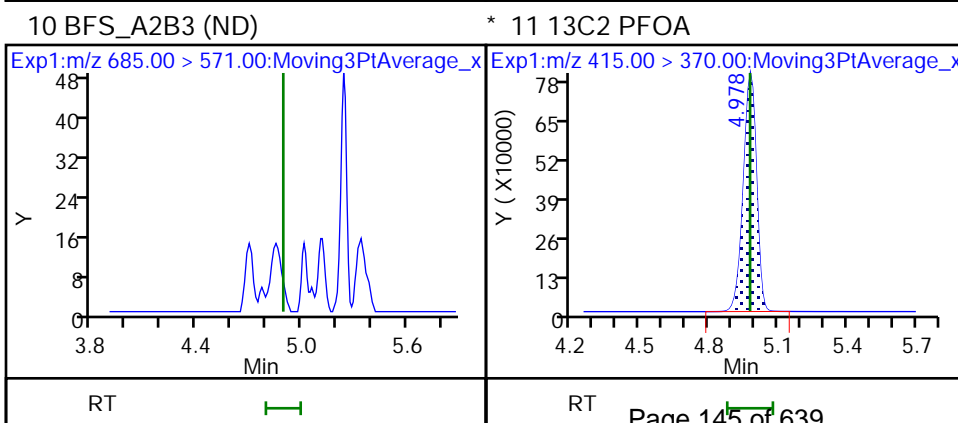
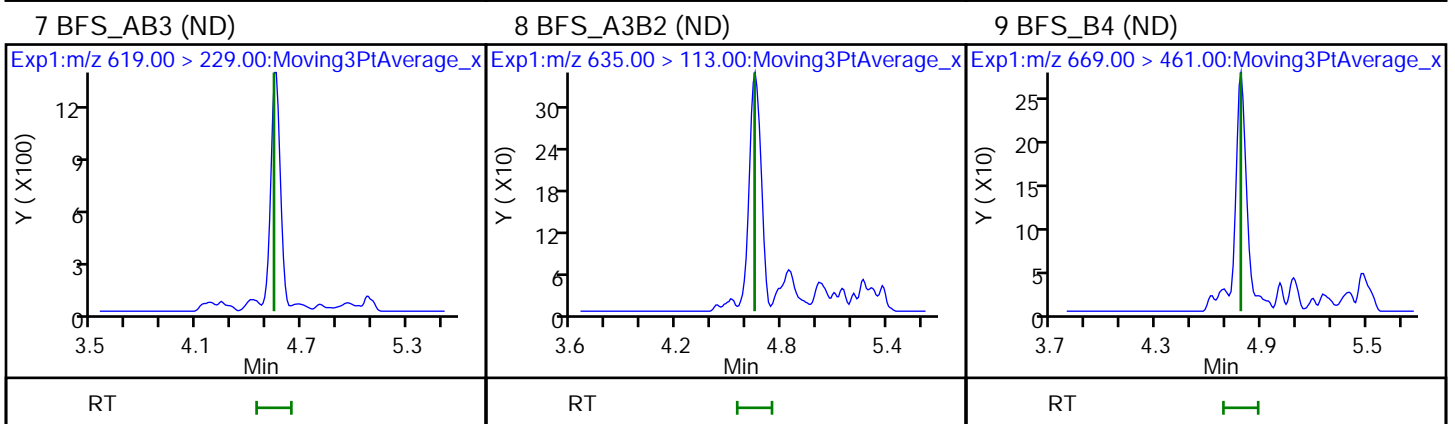
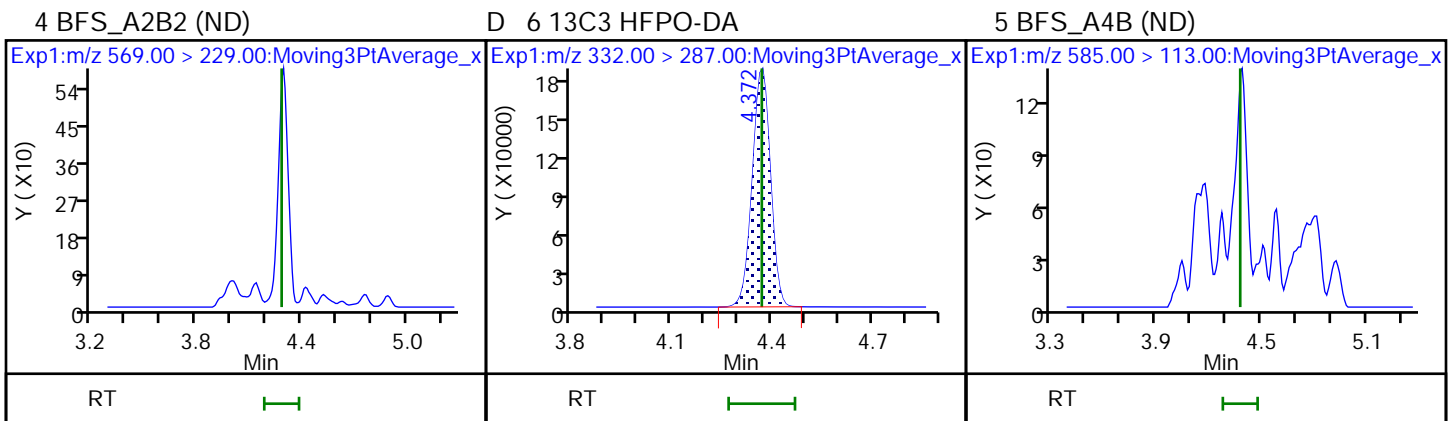
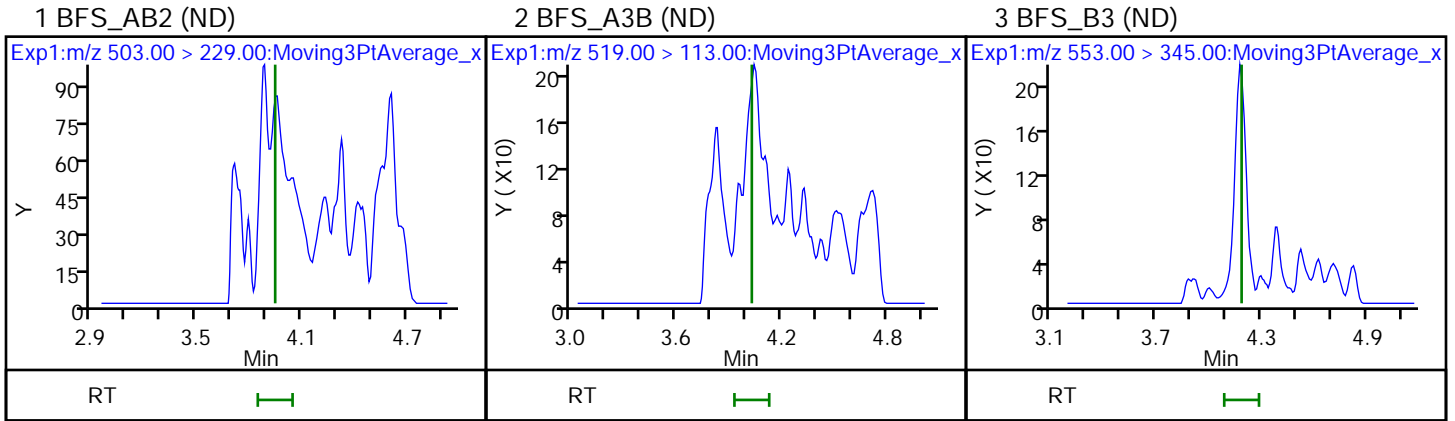
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-44.d
Injection Date: 27-Jul-2022 18:36:41 Instrument ID: 30733
Lims ID: 410-90323-A-10-A Lab Sample ID: 410-90323-10
Client ID: MW-113D
Operator ID: US19_USR_INS20260 ALS Bottle#: 27 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-113S Lab Sample ID: 410-90323-11

Matrix: Water Lab File ID: 22JUL27BFS-45.d

Analysis Method: BFS Date Collected: 07/07/2022 15:25

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 293.2 (mL) Date Analyzed: 07/27/2022 18:49

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.34
STL02887	BFS_A2B3	ND		0.94	0.34
STL02880	BFS_A3B	ND		0.51	0.17
STL02885	BFS_A3B2	ND		0.68	0.17
STL02883	BFS_A4B	ND		0.34	0.17
STL02879	BFS_AB2	ND		0.51	0.068
STL02884	BFS_AB3	ND		1.3	0.34
STL02881	BFS_B3	ND		0.60	0.26
STL02886	BFS_B4	ND		0.94	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-45.d
 Lims ID: 410-90323-A-11-A
 Client ID: MW-113S
 Sample Type: Client
 Inject. Date: 27-Jul-2022 18:49:15 ALS Bottle#: 28 Worklist Smp#: 19
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-11-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:29:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.361 4.369 -0.008 0.878 699228 4.78 95.5 2537
 * 11 13C2 PFOA
 415.00 > 370.00 4.967 4.977 -0.010 3267022 5.00 3013

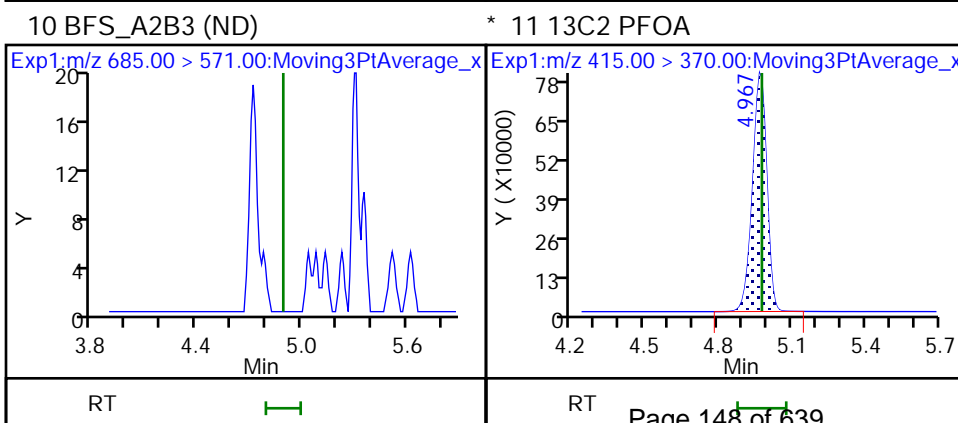
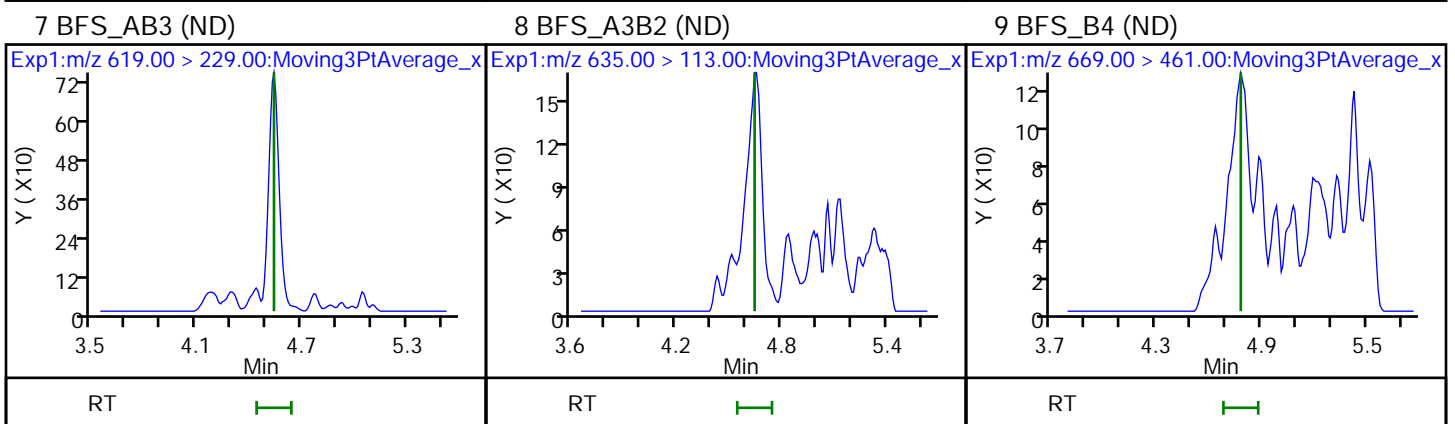
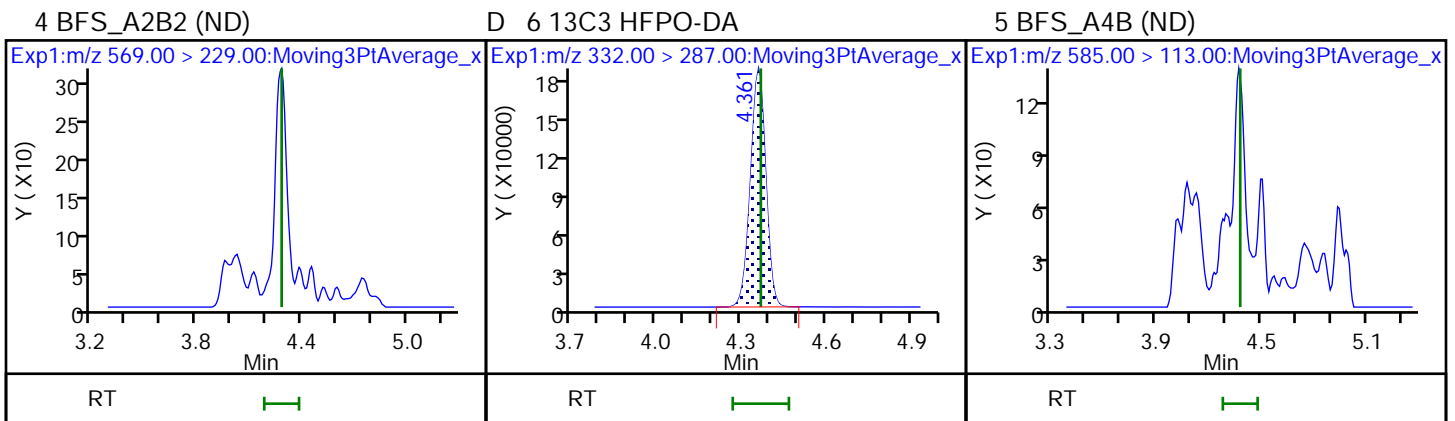
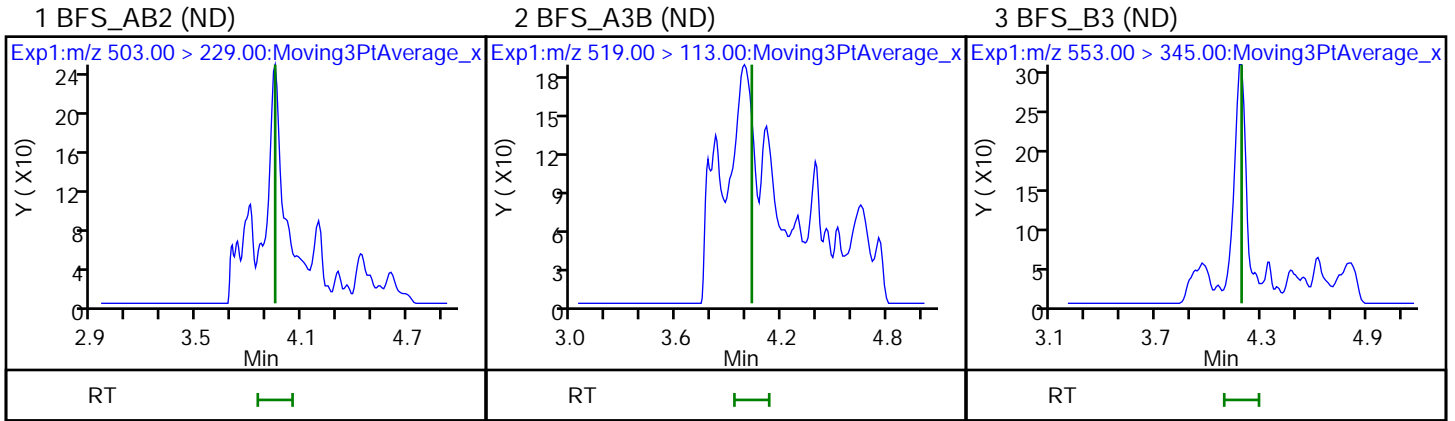
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-45.d
Injection Date: 27-Jul-2022 18:49:15 Instrument ID: 30733
Lims ID: 410-90323-A-11-A Lab Sample ID: 410-90323-11
Client ID: MW-113S
Operator ID: US19_USR_INS20260 ALS Bottle#: 28 Worklist Smp#: 19
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP1_070722 Lab Sample ID: 410-90323-12

Matrix: Water Lab File ID: 22JUL27BFS-46.d

Analysis Method: BFS Date Collected: 07/07/2022 00:00

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 283.2 (mL) Date Analyzed: 07/27/2022 19:01

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.97	0.35
STL02880	BFS_A3B	ND		0.53	0.18
STL02885	BFS_A3B2	ND		0.71	0.18
STL02883	BFS_A4B	ND		0.35	0.18
STL02879	BFS_AB2	ND		0.53	0.071
STL02884	BFS_AB3	ND		1.3	0.35
STL02881	BFS_B3	ND		0.62	0.26
STL02886	BFS_B4	ND		0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-46.d
 Lims ID: 410-90323-A-12-A
 Client ID: DUP1_070722
 Sample Type: Client
 Inject. Date: 27-Jul-2022 19:01:52 ALS Bottle#: 29 Worklist Smp#: 20
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-12-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:30:02
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.369 4.369 0.0 0.878 658349 4.54 90.9 2347
 * 11 13C2 PFOA
 415.00 > 370.00 4.976 4.977 -0.001 3233608 5.00 3267

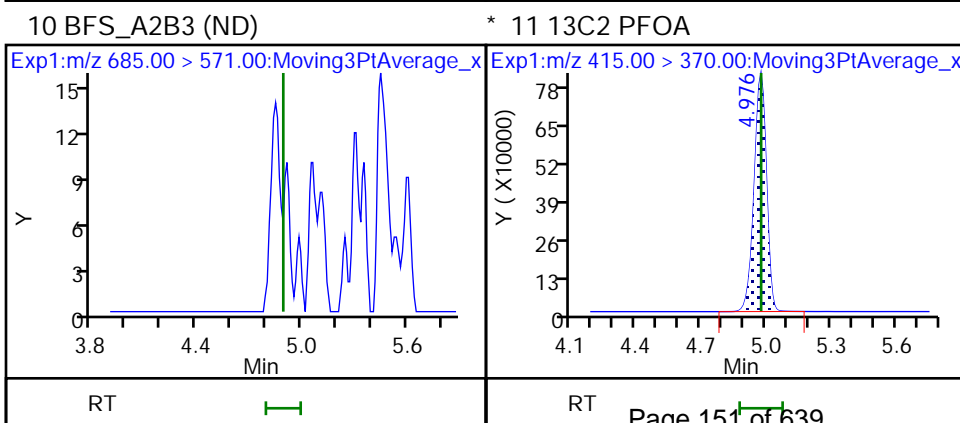
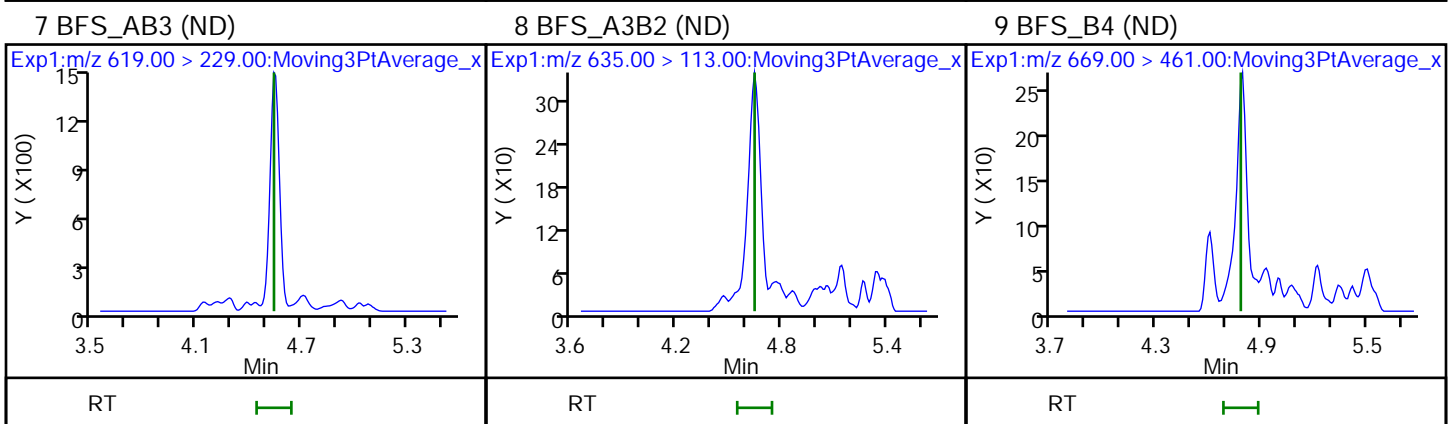
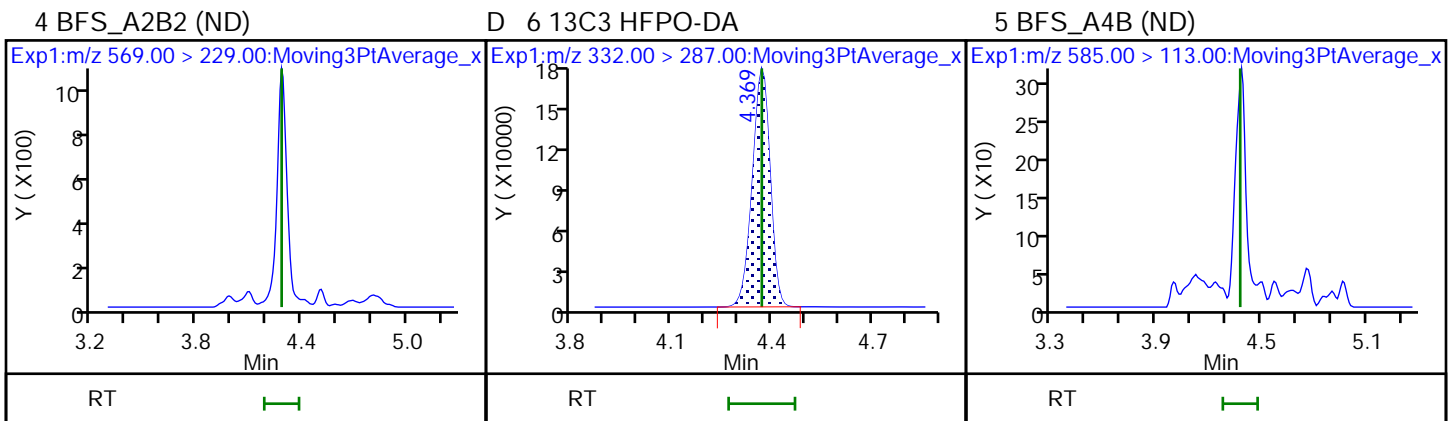
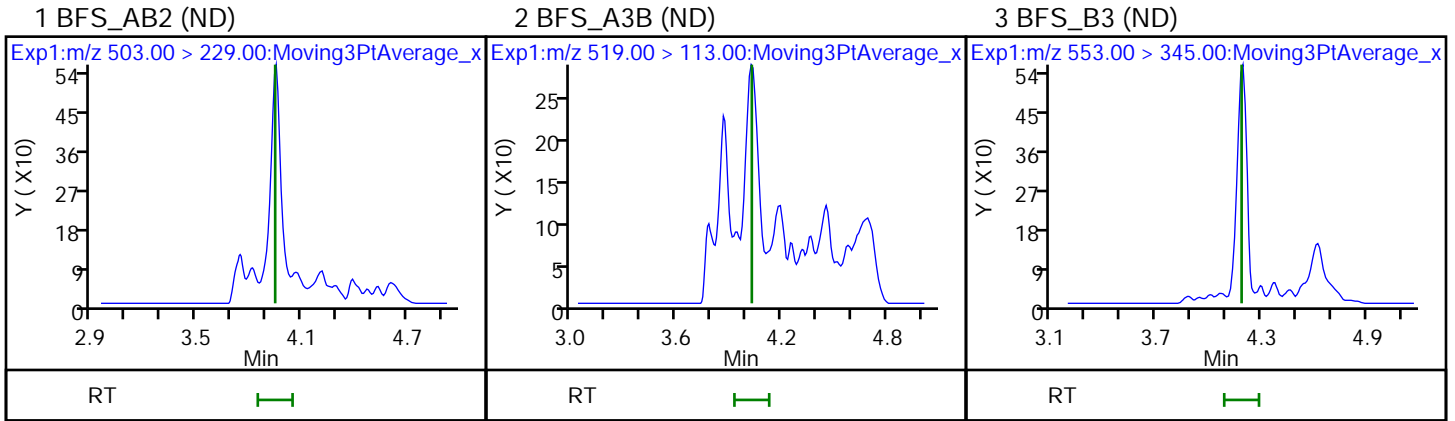
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-46.d
Injection Date: 27-Jul-2022 19:01:52 Instrument ID: 30733
Lims ID: 410-90323-A-12-A Lab Sample ID: 410-90323-12
Client ID: DUP1_070722
Operator ID: US19_USR_INS20260 ALS Bottle#: 29 Worklist Smp#: 20
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_070722 Lab Sample ID: 410-90323-13

Matrix: Water Lab File ID: 22JUL27BFS-47.d

Analysis Method: BFS Date Collected: 07/07/2022 12:05

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 283.2 (mL) Date Analyzed: 07/27/2022 19:14

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.97	0.35
STL02880	BFS_A3B	ND		0.53	0.18
STL02885	BFS_A3B2	ND		0.71	0.18
STL02883	BFS_A4B	ND		0.35	0.18
STL02879	BFS_AB2	ND		0.53	0.071
STL02884	BFS_AB3	ND		1.3	0.35
STL02881	BFS_B3	ND		0.62	0.26
STL02886	BFS_B4	ND		0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-47.d
 Lims ID: 410-90323-A-13-A
 Client ID: EB_070722
 Sample Type: Client
 Inject. Date: 27-Jul-2022 19:14:26 ALS Bottle#: 30 Worklist Smp#: 21
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-13-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-021
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:31:34
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.369 4.369 0.0 0.878 749163 5.05 101 3740
 * 11 13C2 PFOA
 415.00 > 370.00 4.976 4.977 -0.001 3311361 5.00 3661

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-47.d

Injection Date: 27-Jul-2022 19:14:26

Instrument ID: 30733

Lims ID: 410-90323-A-13-A

Lab Sample ID: 410-90323-13

Client ID: EB_070722

Operator ID: US19_USR_INS20260

ALS Bottle#: 30

Worklist Smp#: 21

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

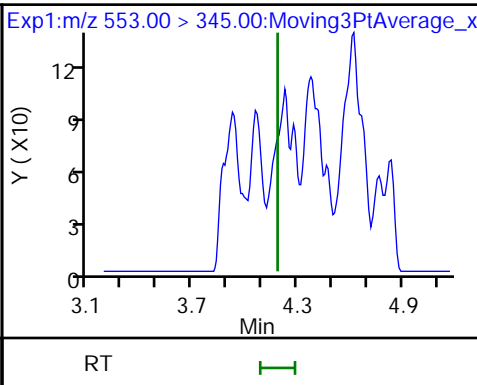
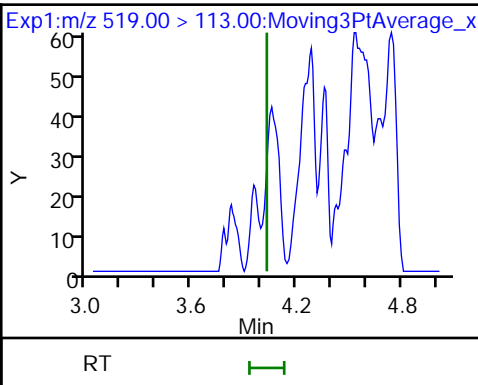
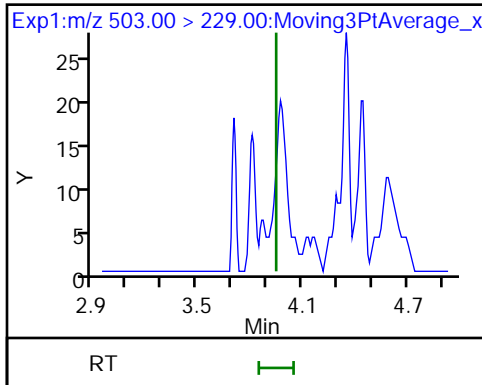
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

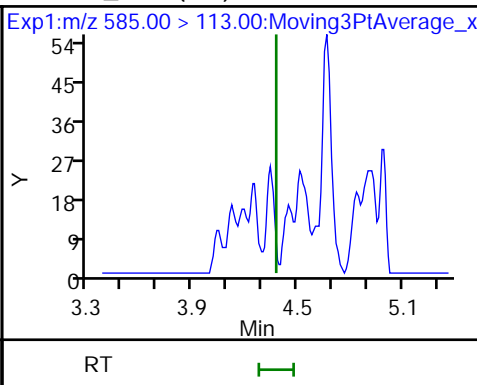
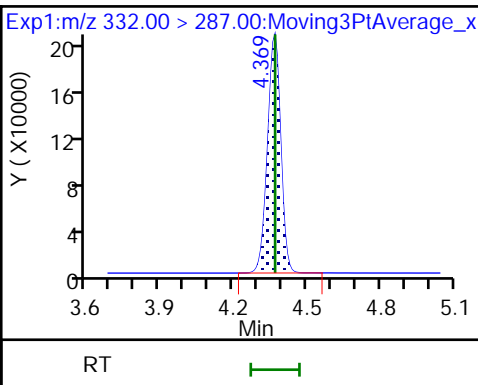
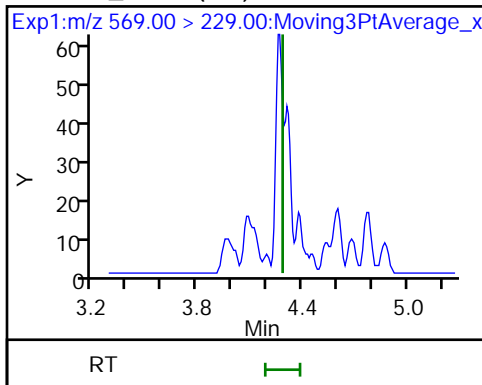
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

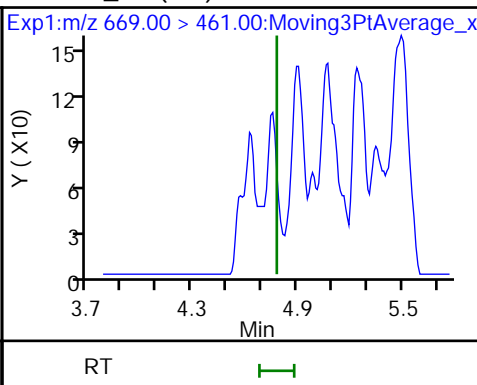
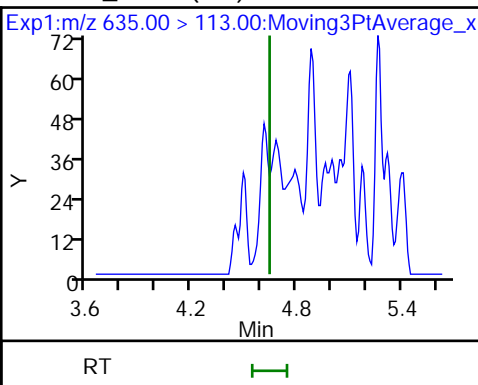
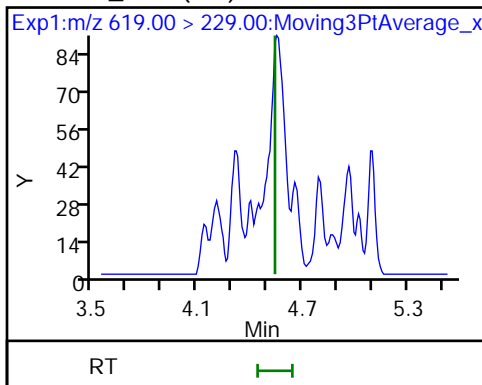
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

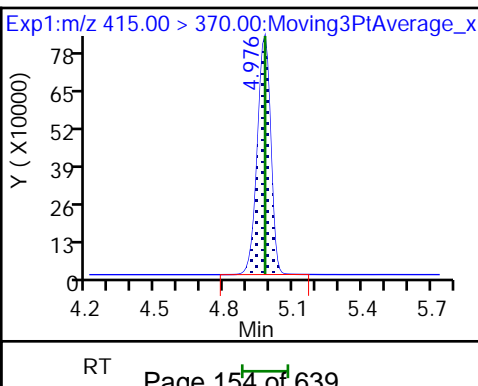
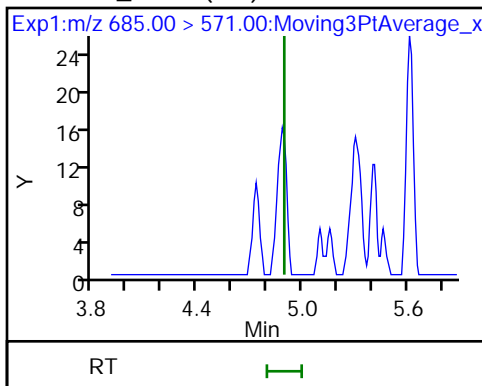
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP2_070722 Lab Sample ID: 410-90323-14

Matrix: Water Lab File ID: 22JUL27BFS-48.d

Analysis Method: BFS Date Collected: 07/07/2022 00:00

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 284.4(mL) Date Analyzed: 07/27/2022 19:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.97	0.35
STL02880	BFS_A3B	ND		0.53	0.18
STL02885	BFS_A3B2	ND		0.70	0.18
STL02883	BFS_A4B	ND		0.35	0.18
STL02879	BFS_AB2	ND		0.53	0.070
STL02884	BFS_AB3	ND		1.3	0.35
STL02881	BFS_B3	ND		0.62	0.26
STL02886	BFS_B4	ND		0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-48.d
 Lims ID: 410-90323-A-14-A
 Client ID: DUP2_070722
 Sample Type: Client
 Inject. Date: 27-Jul-2022 19:27:01 ALS Bottle#: 31 Worklist Smp#: 22
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-14-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-022
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:31:41
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.380 4.369 0.011 0.880 737889 5.06 101 2834
 * 11 13C2 PFOA
 415.00 > 370.00 4.977 4.977 0.0 3253245 5.00 2744

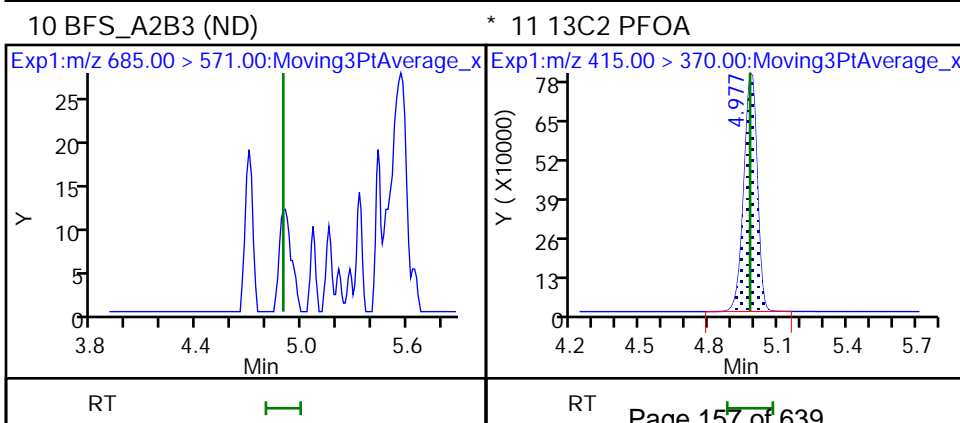
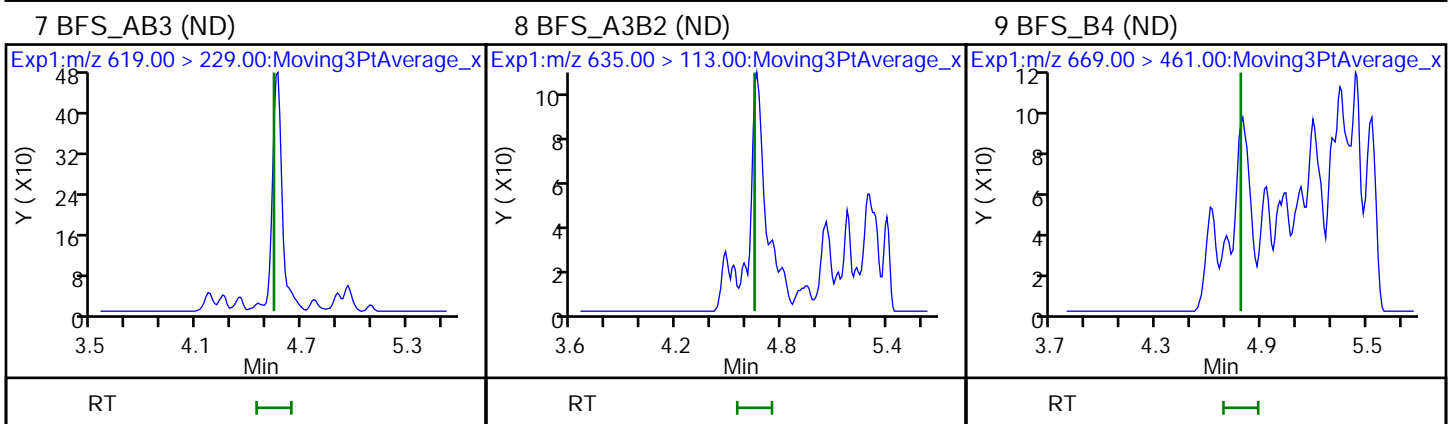
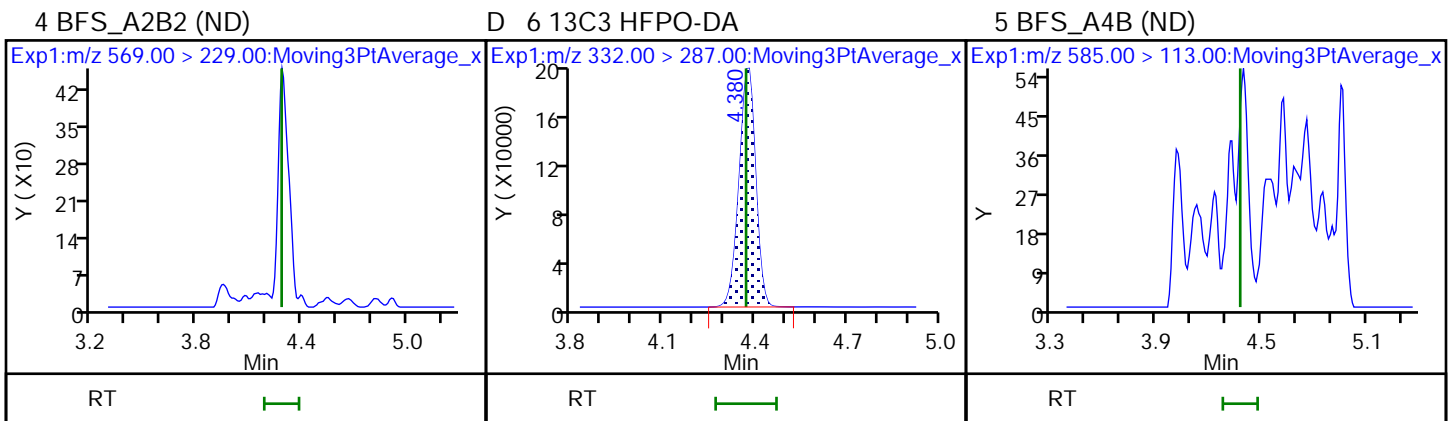
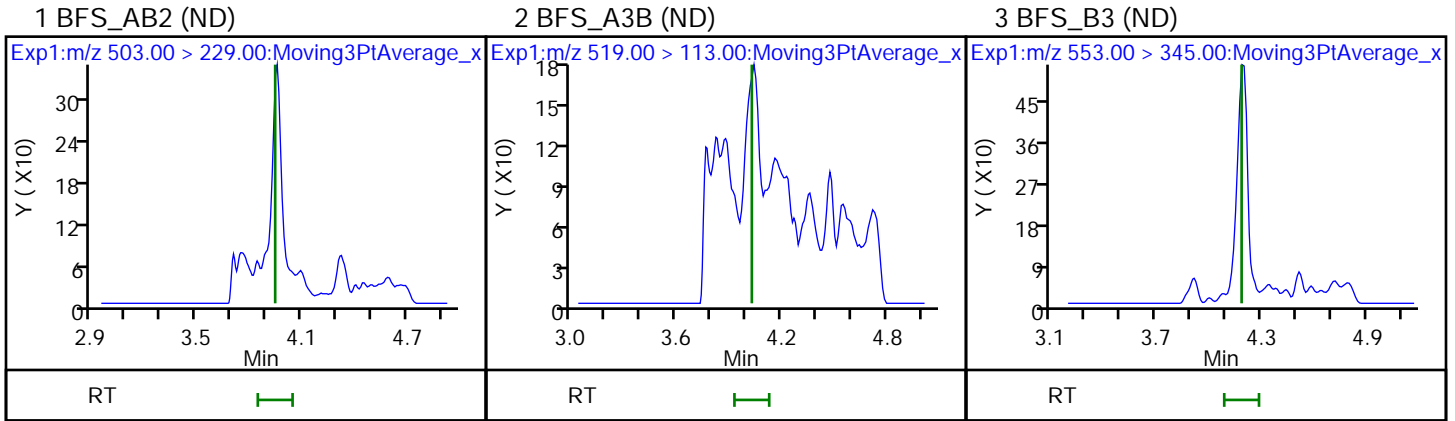
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-48.d
Injection Date: 27-Jul-2022 19:27:01 Instrument ID: 30733
Lims ID: 410-90323-A-14-A Lab Sample ID: 410-90323-14
Client ID: DUP2_070722
Operator ID: US19_USR_INS20260 ALS Bottle#: 31 Worklist Smp#: 22
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102S Lab Sample ID: 410-90323-15

Matrix: Water Lab File ID: 22JUL27BFS-78.d

Analysis Method: BFS Date Collected: 07/07/2022 15:40

Extraction Method: 3535 Date Extracted: 07/19/2022 09:33

Sample wt/vol: 290 (mL) Date Analyzed: 07/28/2022 01:47

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	F1	1.2	0.34
STL02887	BFS_A2B3	ND	F1	0.95	0.34
STL02880	BFS_A3B	ND	F1	0.52	0.17
STL02885	BFS_A3B2	ND	F1	0.69	0.17
STL02883	BFS_A4B	ND	F1	0.34	0.17
STL02879	BFS_AB2	ND	F1	0.52	0.069
STL02884	BFS_AB3	ND	F1	1.3	0.34
STL02881	BFS_B3	ND	F1	0.60	0.26
STL02886	BFS_B4	ND	F1	0.95	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-78.d
 Lims ID: 410-90323-A-15-A
 Client ID: MW-102S
 Sample Type: Client
 Inject. Date: 28-Jul-2022 01:47:33 ALS Bottle#: 3 Worklist Smp#: 52
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-15-A
 Misc. Info.: Plate: 12 Rack: 1 410-0062810-052
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:46 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:37:21
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA									
332.00 > 287.00	4.363	4.369	-0.006	0.878	649124	4.55	91.0	2450	
* 11 13C2 PFOA									
415.00 > 370.00	4.968	4.977	-0.009		3182173	5.00		2628	

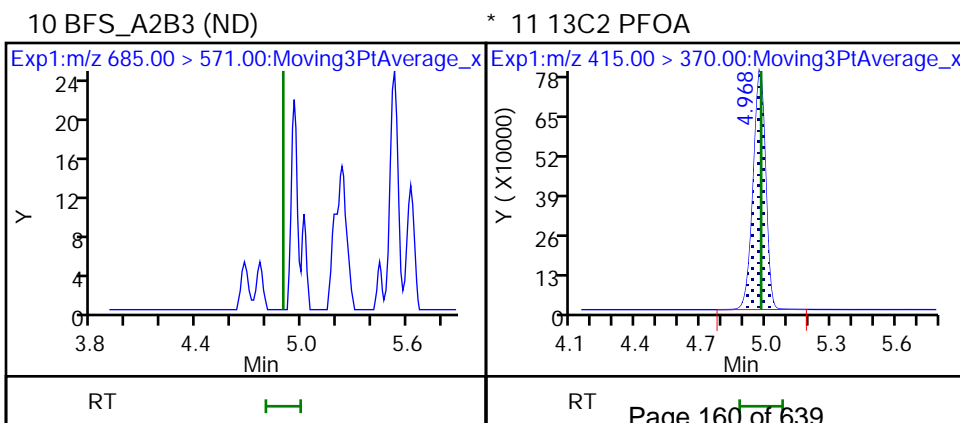
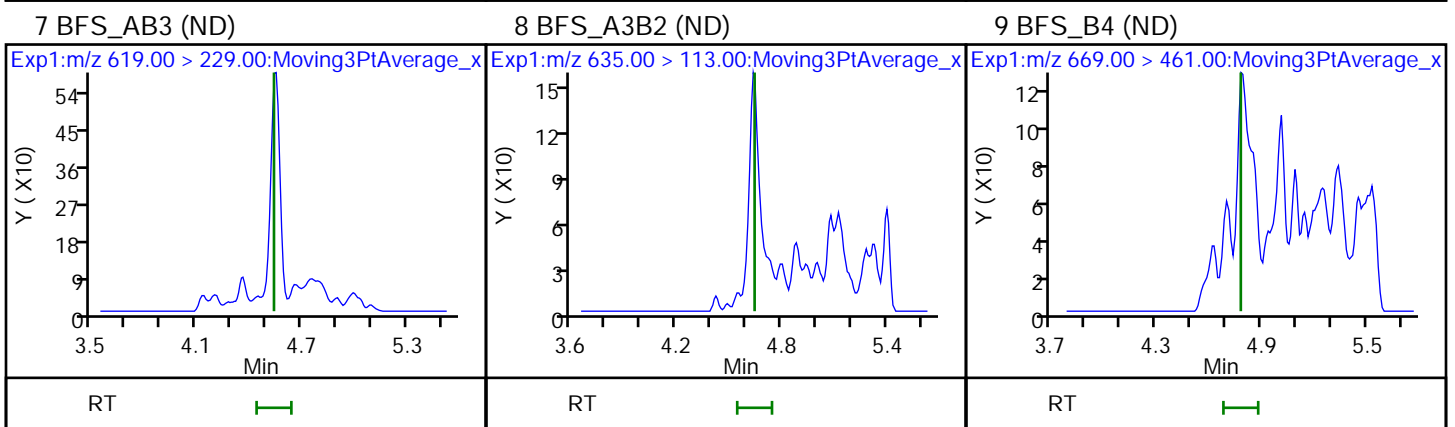
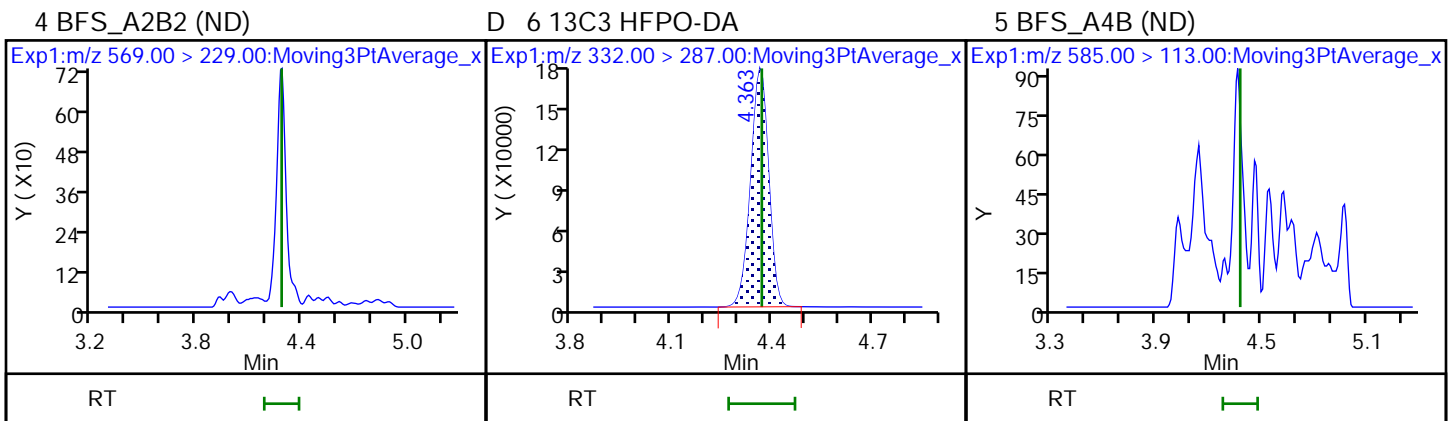
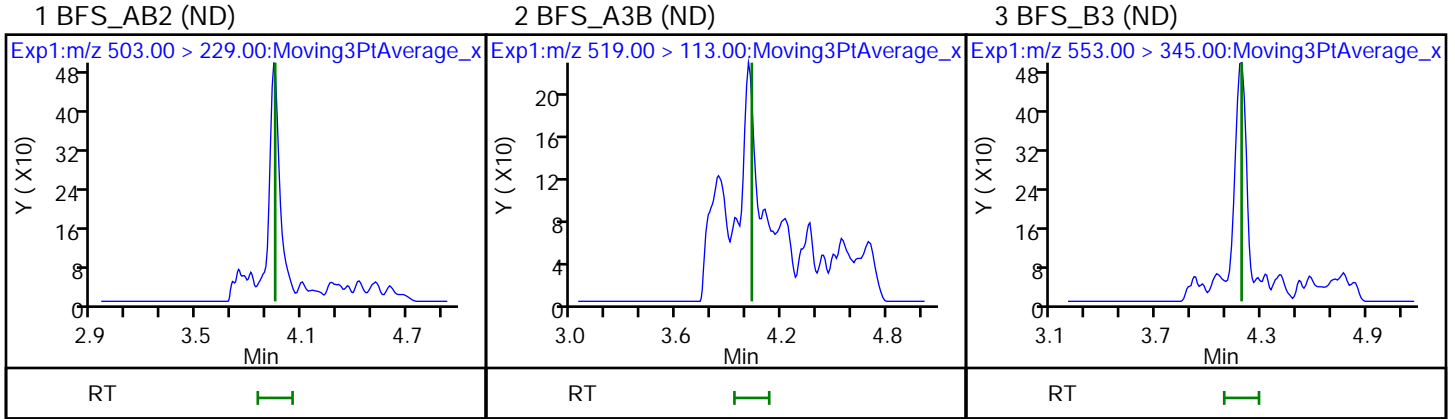
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-78.d
Injection Date: 28-Jul-2022 01:47:33 Instrument ID: 30733
Lims ID: 410-90323-A-15-A Lab Sample ID: 410-90323-15
Client ID: MW-102S
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 52
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 279955

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2022 11:52 Calibration End Date: 07/27/2022 13:45 Calibration ID: 41316

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-279955/1	22JUL27BFS-14.d
Level 2	IC 410-279955/2	22JUL27BFS-15.d
Level 3	IC 410-279955/3	22JUL27BFS-16.d
Level 4	IC 410-279955/4	22JUL27BFS-17.d
Level 5	ICISAV 410-279955/5	22JUL27BFS-18.d
Level 6	IC 410-279955/6	22JUL27BFS-19.d
Level 7	IC 410-279955/7	22JUL27BFS-20.d
Level 8	IC 410-279955/8	22JUL27BFS-21.d
Level 9	IC 410-279955/9	22JUL27BFS-22.d
Level 10	IC 410-279955/10	22JUL27BFS-23.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
BFS_AB2	++++ 1.7472	1.7407 1.8584	1.7847 1.8081	1.8062 1.7684	1.7849 1.8786	L1ID	-0.03 2	1.841 2						0.9990		0.9900	
BFS_A3B	++++ 1.9055	1.8705 1.9882	1.9670 1.9702	1.9610 1.9137	1.9572 1.9791	L1ID	-0.01 3	1.962 1						1.0000		0.9900	
BFS_B3	1.0090 0.9712	0.9305 1.0239	1.0151 0.9821	1.0362 0.9715	1.0449 0.9354	L1ID	0.036 7	0.956 0						0.9990		0.9900	
BFS_A2B2	0.6537 0.6585	0.6601 0.6577	0.6827 0.6500	0.7126 0.6092	0.6855 0.5909	Q2ID	-0.00 8	0.677 9	-0.000145					0.9990		0.9900	
BFS_A4B	++++ 2.0434	1.9949 2.1273	2.1416 2.1416	2.1918 2.0576	2.1356 2.1250	L1ID	-0.00 2	2.110 2						1.0000		0.9900	
BFS_AB3	0.8154 0.8316	0.8201 0.8076	0.8877 0.8112	0.8913 0.7198	0.8726 0.6556	Q2ID	-0.01 6	0.858 4	-0.000303					0.9990		0.9900	
BFS_A3B2	++++ 1.5175	1.3896 1.6152	1.7091 1.5537	1.6204 1.5057	1.6376 1.4183	Q2ID	-0.03 7	1.633 3	-0.001808					0.9980		0.9900	
BFS_B4	++++ 0.5029	0.4962 0.5061	0.5199 0.5340	0.5412 0.4961	0.5267 0.4835	Q2ID	-0.00 6	0.525 3	-0.000259					0.9990		0.9900	
BFS_A2B3	++++ 0.0550	++++ 0.0532	0.0663 0.0484	0.0541 0.0475	0.0525 0.0492	L1ID	0.001 1	0.048 9						0.9990		0.9900	
13C3 HFPO-DA	0.2285 0.2282	0.2278 0.2240	0.2256 0.2221	0.2180 0.2233	0.2293 0.2141	Ave		0.224 1			2.2						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 279955

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2022 11:52 Calibration End Date: 07/27/2022 13:45 Calibration ID: 41316

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-279955/1	22JUL27BFS-14.d
Level 2	IC 410-279955/2	22JUL27BFS-15.d
Level 3	IC 410-279955/3	22JUL27BFS-16.d
Level 4	IC 410-279955/4	22JUL27BFS-17.d
Level 5	ICISAV 410-279955/5	22JUL27BFS-18.d
Level 6	IC 410-279955/6	22JUL27BFS-19.d
Level 7	IC 410-279955/7	22JUL27BFS-20.d
Level 8	IC 410-279955/8	22JUL27BFS-21.d
Level 9	IC 410-279955/9	22JUL27BFS-22.d
Level 10	IC 410-279955/10	22JUL27BFS-23.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		L1ID	++++	36239	90027	228449	500898	++++	0.134	0.356	0.891	1.78
			1194397	2444395	4707637	9625154	24104972	4.45	8.91	17.8	35.6	89.1
BFS_A3B		L1ID	++++	43523	110898	277215	613875	++++	0.149	0.398	0.995	1.99
			1455922	2922787	5733323	11641537	28382705	4.98	9.95	19.9	39.8	99.5
BFS_B3		L1ID	23275	68938	182239	466440	1043564	0.158	0.475	1.27	3.17	6.34
			2362846	4793129	9099655	18818884	42716992	15.8	31.7	63.4	127	317
BFS_A2B2		Q2ID	33025	107114	268428	702521	1499360	0.347	1.04	2.78	6.94	13.9
			3508637	6742881	13191078	25842806	59101046	34.7	69.4	139	278	694
BFS_A4B		L1ID	++++	25651	66725	171228	370170	++++	0.0825	0.220	0.550	1.10
			862806	1728249	3443989	6917391	16841868	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID	44148	142608	374049	941609	2045608	0.372	1.12	2.98	7.44	14.9
			4748880	8873473	17641722	32726572	70272945	37.2	74.4	149	298	744
BFS_A3B2		Q2ID	++++	42543	126785	301391	675857	++++	0.196	0.524	1.31	2.62
			1525618	3124294	5948944	12052126	26763627	6.55	13.1	26.2	52.4	131
BFS_B4		Q2ID	++++	20052	50908	132871	286932	++++	0.259	0.692	1.73	3.46
			667393	1292330	2698687	5242109	12043415	8.64	17.3	34.6	69.2	173
BFS_A2B3		L1ID	++++	++++	492	1006	2165	++++	++++	0.0524	0.131	0.262
			5529	10289	18538	38044	92862	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	727811	779180	708003	710074	787758	5.00	5.00	5.00	5.00	5.00
			767581	738449	730853	763934	720374	5.00	5.00	5.00	5.00	5.00

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 279955

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2022 11:52 Calibration End Date: 07/27/2022 13:45 Calibration ID: 41316

Curve Type Legend

Ave = Average ISTD L1ID = Linear 1/conc IsoDil Q2ID = Quadratic 1/conc ² IsoDil
--

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 279955

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2022 11:52 Calibration End Date: 07/27/2022 13:45 Calibration ID: 41316

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-279955/1	22JUL27BFS-14.d
Level 2	IC 410-279955/2	22JUL27BFS-15.d
Level 3	IC 410-279955/3	22JUL27BFS-16.d
Level 4	IC 410-279955/4	22JUL27BFS-17.d
Level 5	ICISAV 410-279955/5	22JUL27BFS-18.d
Level 6	IC 410-279955/6	22JUL27BFS-19.d
Level 7	IC 410-279955/7	22JUL27BFS-20.d
Level 8	IC 410-279955/8	22JUL27BFS-21.d
Level 9	IC 410-279955/9	22JUL27BFS-22.d
Level 10	IC 410-279955/10	22JUL27BFS-23.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT						
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10			
BFS_AB2	+++++	7.4	1.8	0.0	-2.1	-4.7		50	30	30	30	30	30
	1.1	-1.7	-3.9	2.0			30	30	30	30			
BFS_A3B	+++++	-0.2	1.9	0.6	0.1	-2.7		50	30	30	30	30	30
	1.4	0.4	-2.5	0.9			30	30	30	30			
BFS_B3	-18.7	-10.7	3.2	7.2	8.7	1.3	50	30	30	30	30	30	30
	7.0	2.7	1.6	-2.2			30	30	30	30			
BFS_A2B2	0.0	-1.4	1.2	5.5	1.5	-2.1	50	30	30	30	30	30	30
	-1.5	-1.2	-4.7	3.0			30	30	30	30			
BFS_A4B	+++++	-4.5	1.8	4.0	1.3	-3.1		50	30	30	30	30	30
	0.8	1.5	-2.5	0.7			30	30	30	30			
BFS_AB3	0.1	-2.7	4.2	4.4	2.3	-1.8	50	30	30	30	30	30	30
	-3.4	-0.3	-7.1	5.7			30	30	30	30			
BFS_A3B2	+++++	-3.4	9.0	1.1	1.4	-6.1		50	30	30	30	30	30
	0.5	-2.0	-2.2	1.9			30	30	30	30			
BFS_B4	+++++	-0.8	0.8	3.8	0.8	-3.7		50	30	30	30	30	30
	-2.8	3.5	-2.3	0.7			30	30	30	30			
BFS_A2B3	+++++	+++++	-5.4	-5.8	-0.9	9.2		50	30	30	30	30	30
	7.2	-1.8	-3.2	0.5			30	30	30	30			
13C3 HFPO-DA		1.7	0.7	-2.7	2.3	1.8		30	30	30	30	30	30
	0.0	-0.9	-0.4	-4.5			30	30	30	30			

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-14.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 27-Jul-2022 11:52:09 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:38:56 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 12:26:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.951	3.949	0.002	0.905	11618	0.0606	136	252	M
2 BFS_A3B									M
519.00 > 113.00	4.021	4.026	-0.005	0.922	14440	0.0573	115	83.2	M
3 BFS_B3									M
553.00 > 345.00	4.188	4.181	0.007	0.960	23275	0.1289	81.3	57.5	M
4 BFS_A2B2									M
569.00 > 229.00	4.288	4.286	0.002	0.983	33025	0.3472	100	345	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.364	4.363	0.001	0.878	727811	5.10	102	2314	
5 BFS_A4B									M
585.00 > 113.00	4.372	4.372	0.0	1.002	9024	0.0302	110	128	M
7 BFS_AB3									
619.00 > 229.00	4.544	4.544	0.0	1.041	44148	0.3725	100	316	
8 BFS_A3B2									M
635.00 > 113.00	4.648	4.644	0.004	1.065	15054	0.0858	131	102	M
9 BFS_B4									M
669.00 > 461.00	4.783	4.781	0.002	1.096	6824	0.1016	117	17.8	M
* 11 13C2 PFOA									
415.00 > 370.00	4.969	4.970	-0.001		3185330	5.00		3752	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-14.d

Injection Date: 27-Jul-2022 11:52:09

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

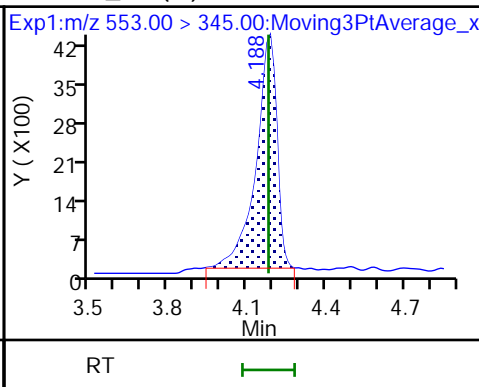
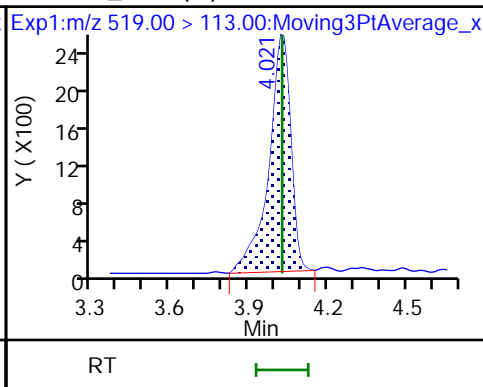
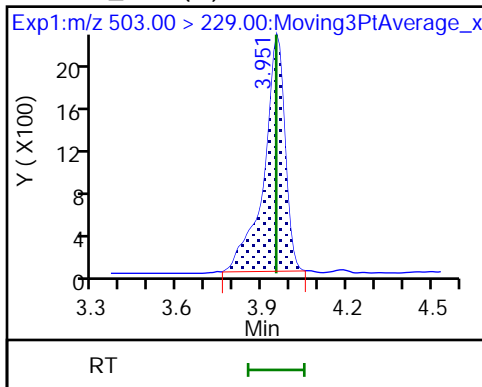
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

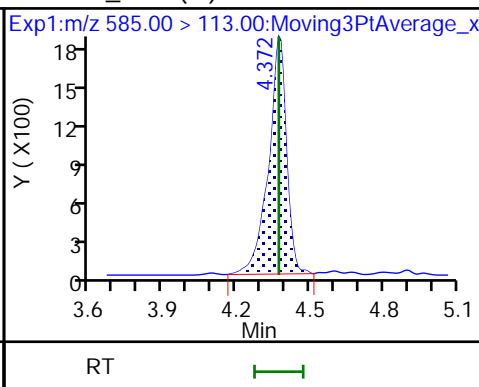
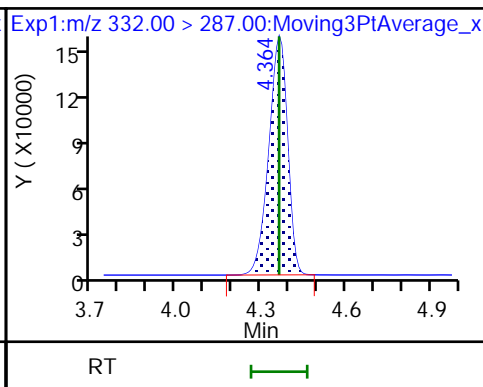
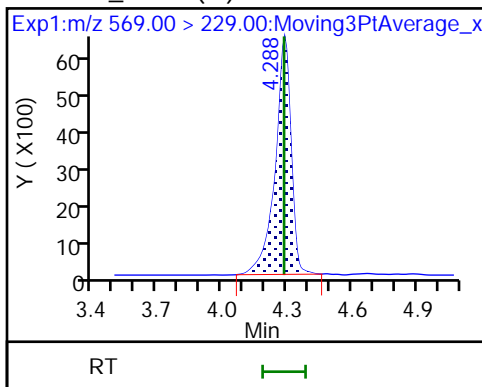
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

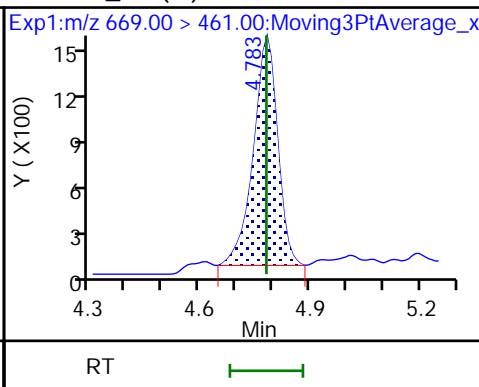
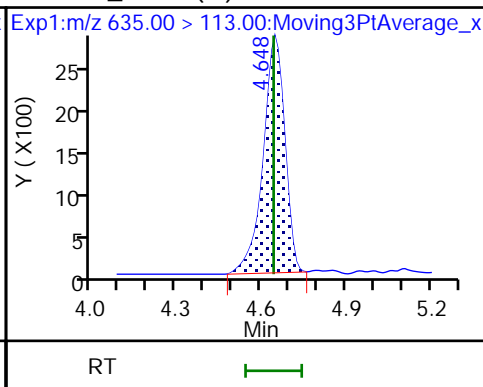
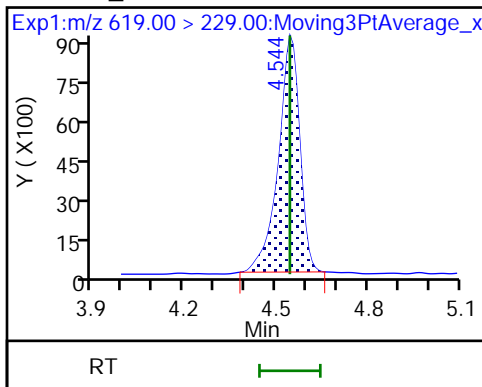
5 BFS_A4B (M)



7 BFS_AB3

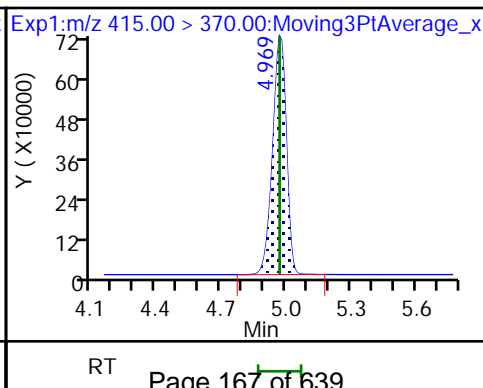
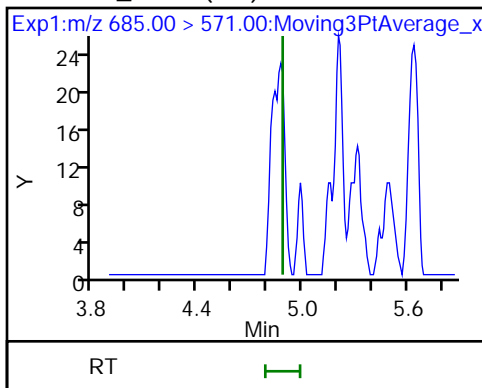
8 BFS_A3B2 (M)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

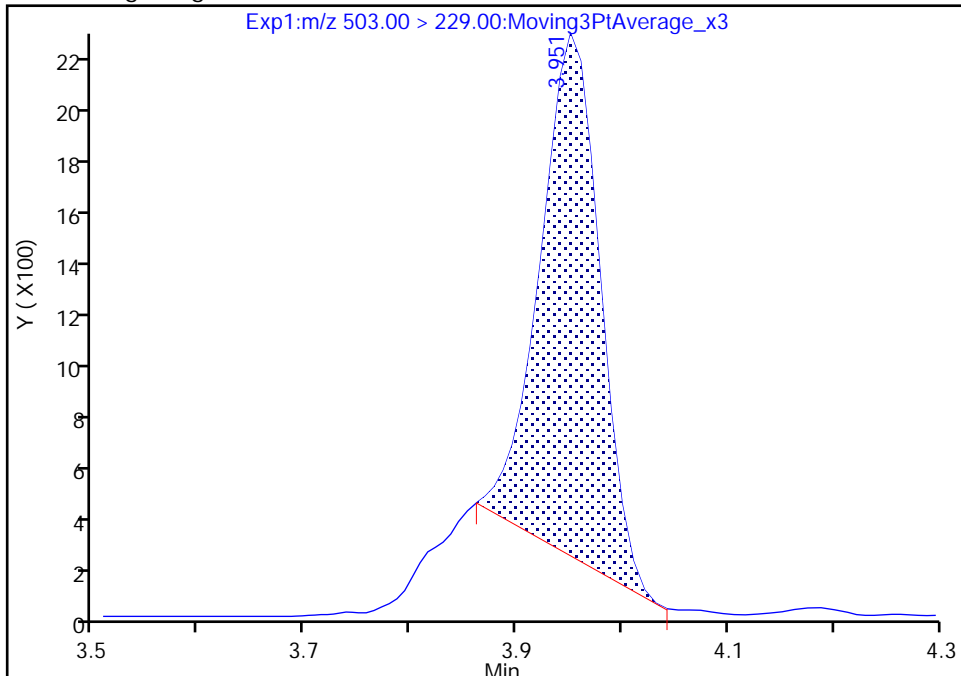
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-14.d
Injection Date: 27-Jul-2022 11:52:09 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

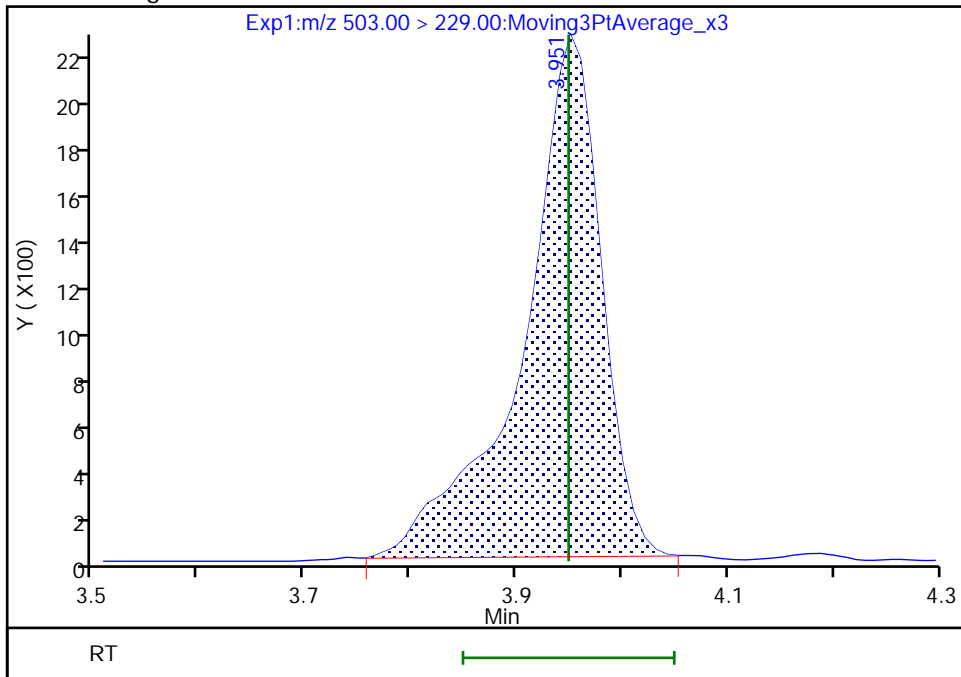
RT: 3.95
Area: 8094
Amount: 0.050532
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 11618
Amount: 0.060582
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 12:24:09
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

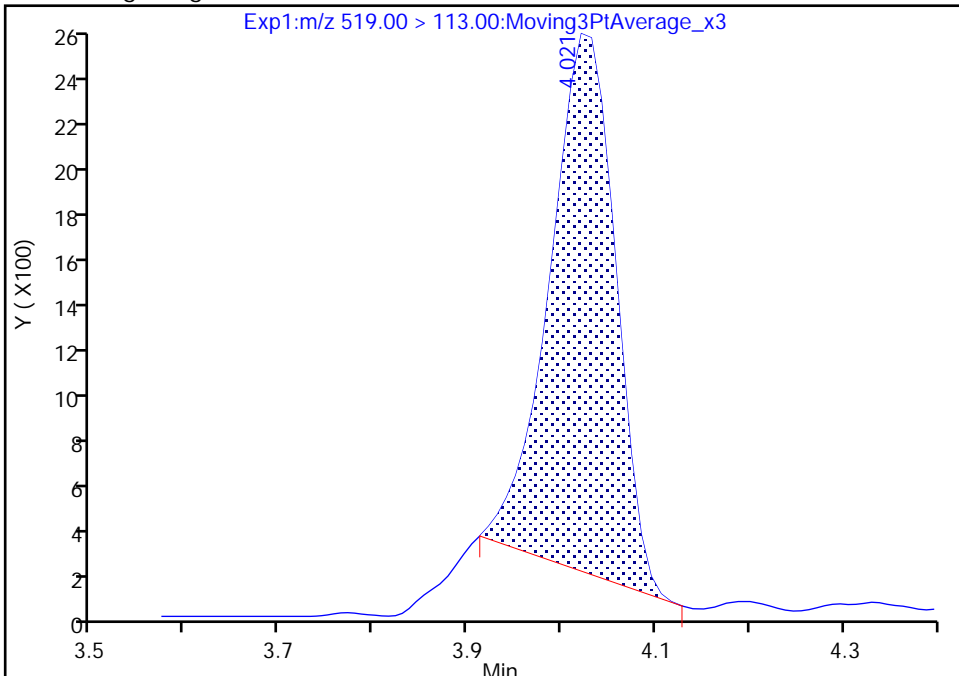
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Injection Date: 27-Jul-2022 11:52:09 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

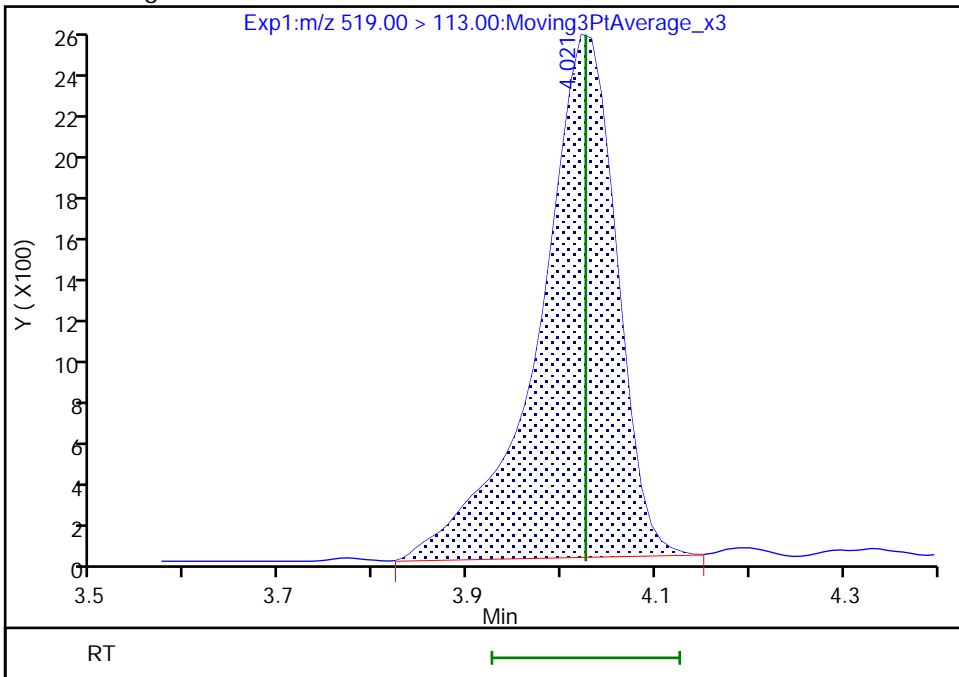
RT: 4.02
Area: 11340
Amount: 0.047465
Amount Units: ng/ml

Processing Integration Results



RT: 4.02
Area: 14440
Amount: 0.057283
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 12:24:14
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

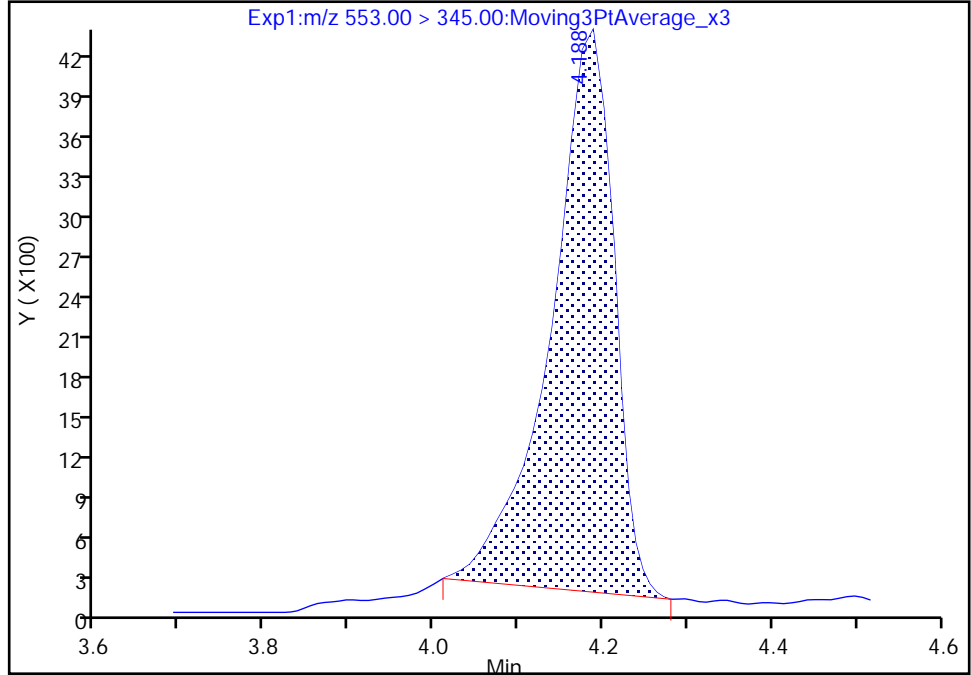
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Injection Date: 27-Jul-2022 11:52:09 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

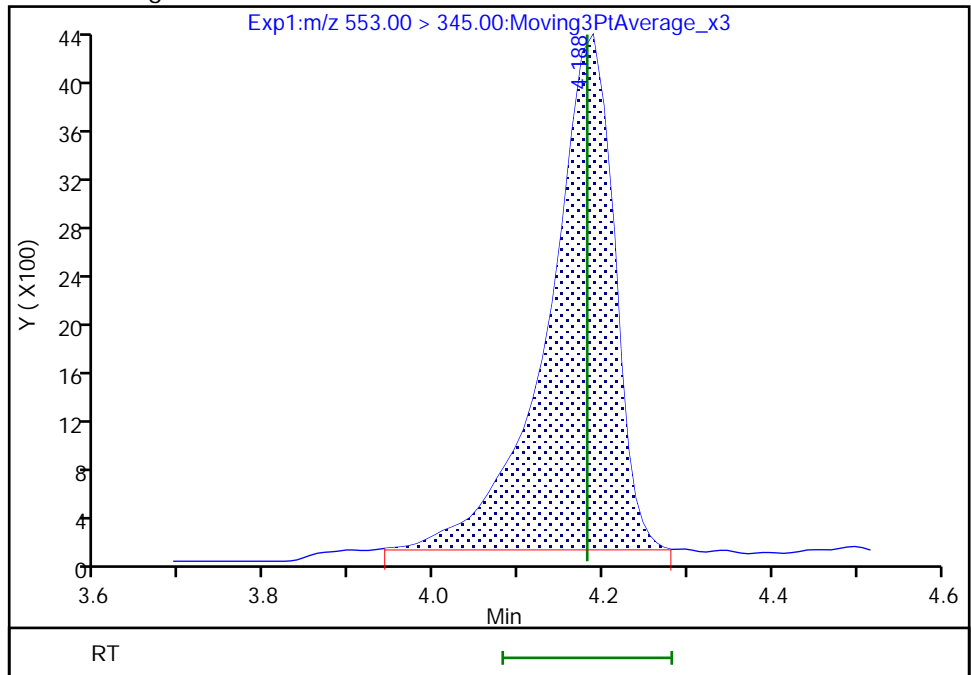
RT: 4.19
Area: 21697
Amount: 0.150175
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 23275
Amount: 0.128866
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 12:24:18
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 170 of 639

Eurofins Lancaster Laboratories Environment Testing, LLC

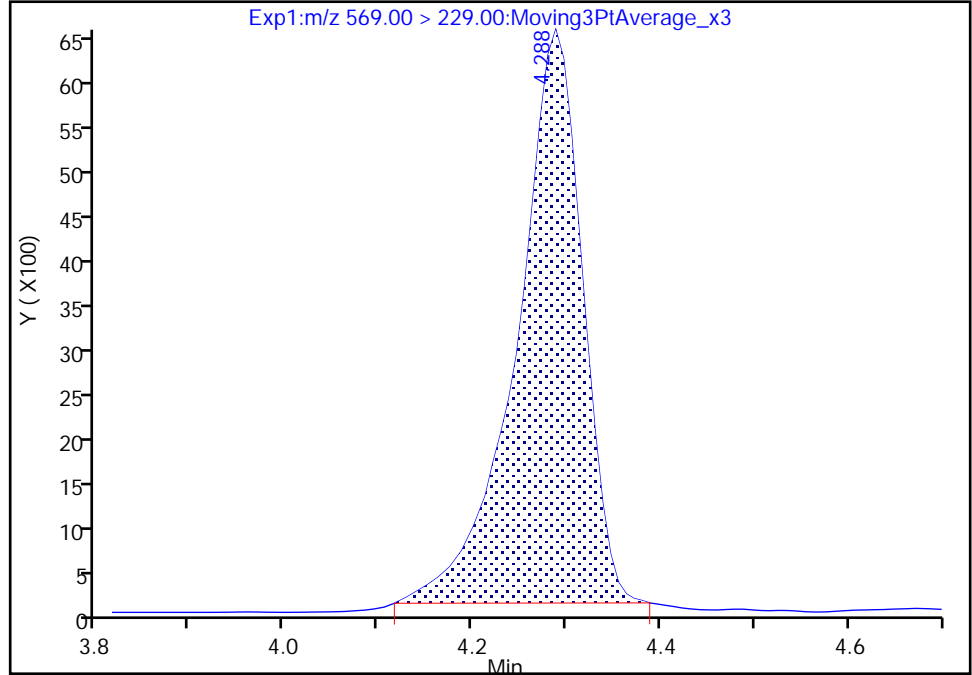
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-14.d
Injection Date: 27-Jul-2022 11:52:09 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

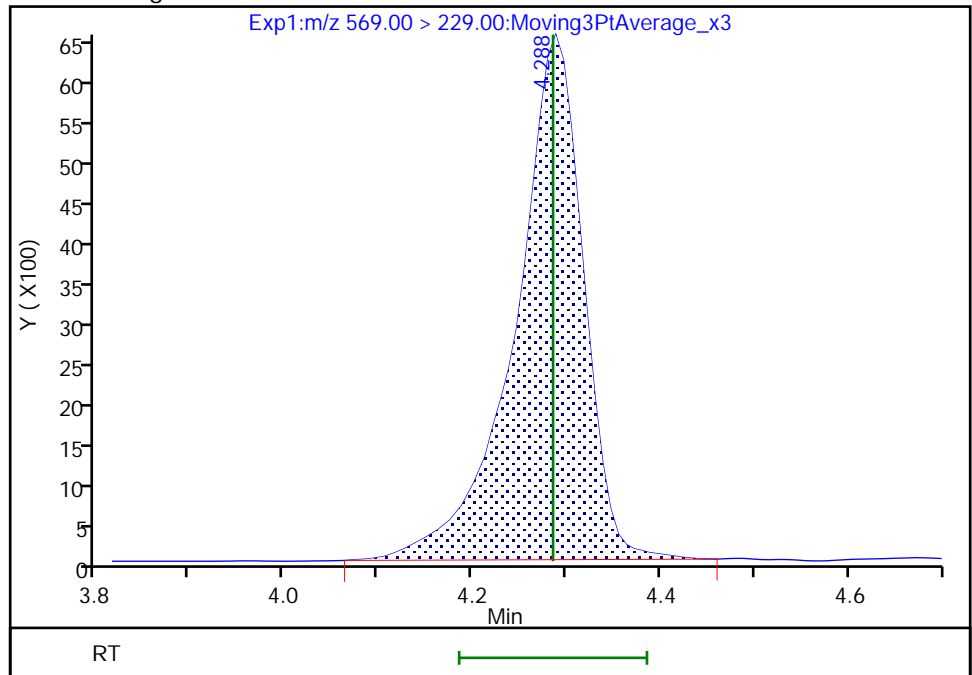
RT: 4.29
Area: 31386
Amount: 0.296622
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 33025
Amount: 0.347217
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 12:24:24
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

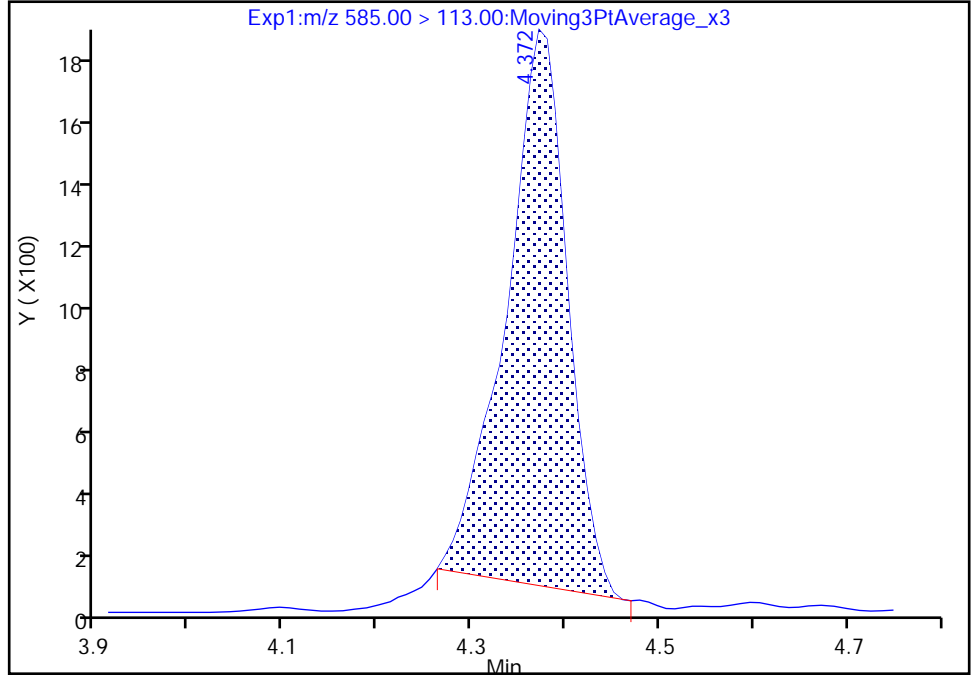
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-14.d
Injection Date: 27-Jul-2022 11:52:09 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

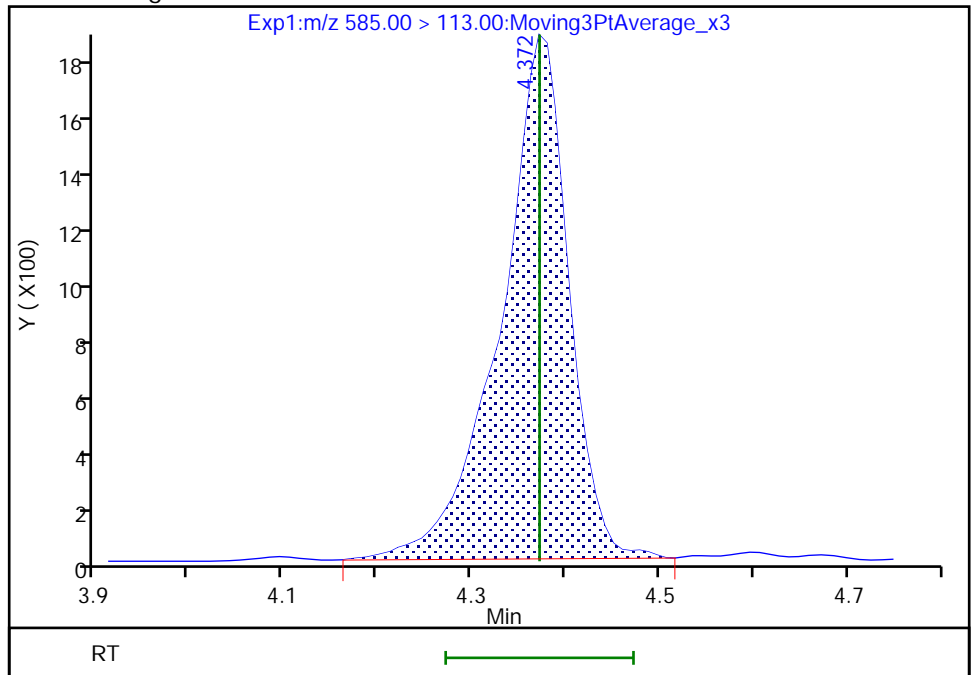
RT: 4.37
Area: 7787
Amount: 0.028427
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 9024
Amount: 0.030158
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 12:24:29
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

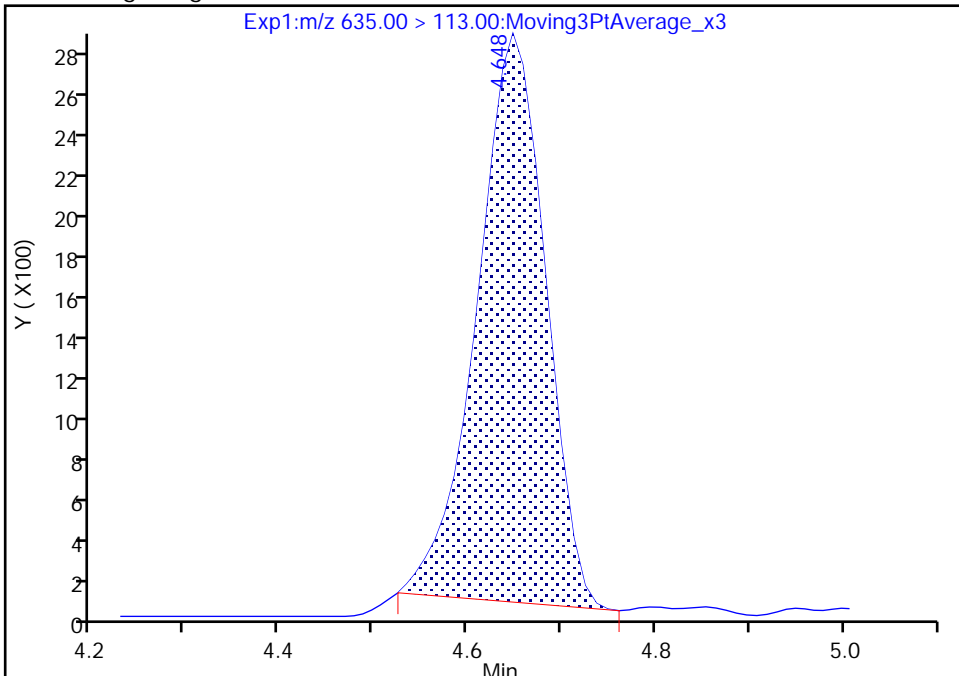
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-14.d
Injection Date: 27-Jul-2022 11:52:09 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

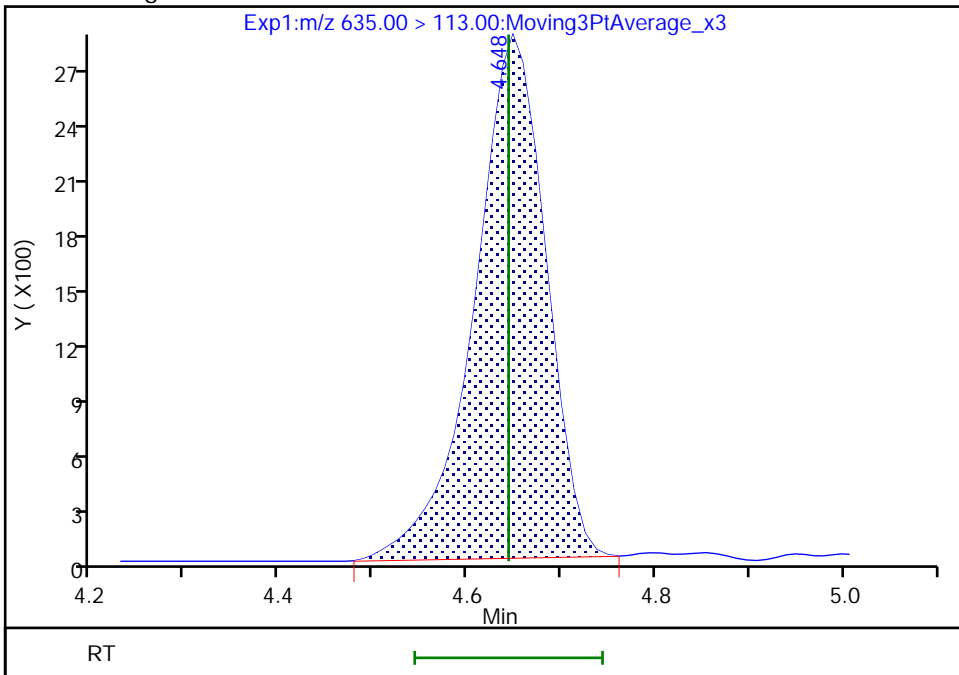
RT: 4.65
Area: 14129
Amount: 0.052786
Amount Units: ng/ml

Processing Integration Results



RT: 4.65
Area: 15054
Amount: 0.085833
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 12:24:35
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

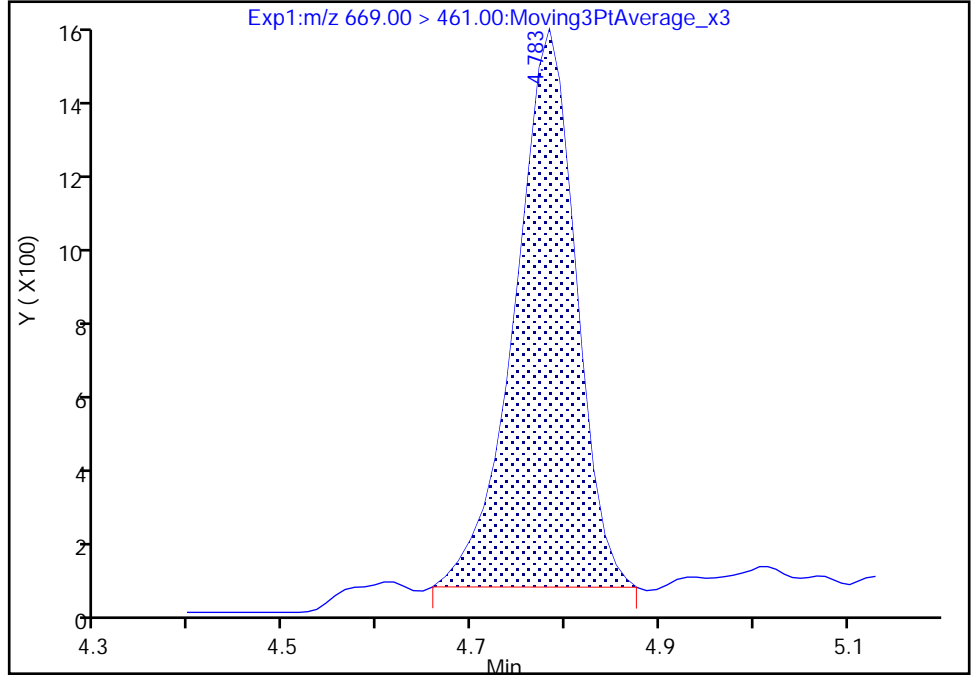
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-14.d
Injection Date: 27-Jul-2022 11:52:09 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

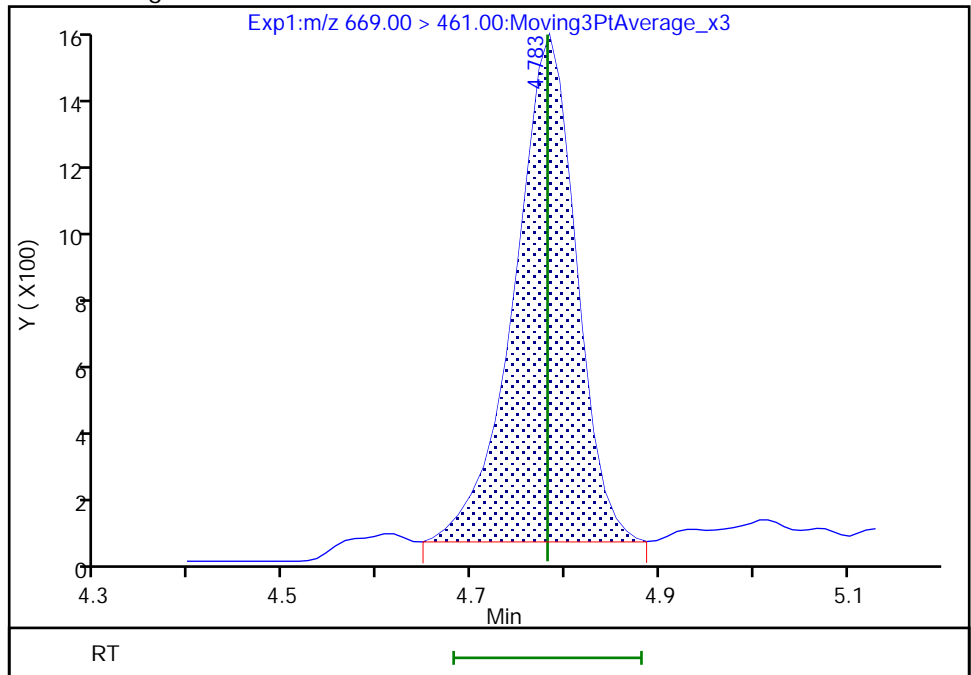
RT: 4.78
Area: 6680
Amount: 0.086215
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 6824
Amount: 0.101552
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 12:24:40
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-15.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 27-Jul-2022 12:04:47 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:38:57 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 13:37:12

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.943	3.949	-0.006	0.905	36239	0.1435	107	867	M
2 BFS_A3B									M
519.00 > 113.00	4.023	4.026	-0.003	0.923	43523	0.1491	99.8	182	M
3 BFS_B3									
553.00 > 345.00	4.177	4.181	-0.004	0.959	68938	0.4243	89.3	136	
4 BFS_A2B2									
569.00 > 229.00	4.282	4.286	-0.004	0.983	107114	1.03	98.6	937	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.357	4.363	-0.006	0.877	779180	5.08	102	2389	
5 BFS_A4B									M
585.00 > 113.00	4.373	4.372	0.001	1.004	25651	0.0788	95.5	274	M
7 BFS_AB3									
619.00 > 229.00	4.545	4.544	0.001	1.043	142608	1.09	97.3	765	
8 BFS_A3B2									
635.00 > 113.00	4.639	4.644	-0.005	1.065	42543	0.1897	96.6	187	
9 BFS_B4									
669.00 > 461.00	4.782	4.781	0.001	1.098	20052	0.2573	99.2	44.2	
* 11 13C2 PFOA									
415.00 > 370.00	4.967	4.970	-0.003		3420494	5.00		3839	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

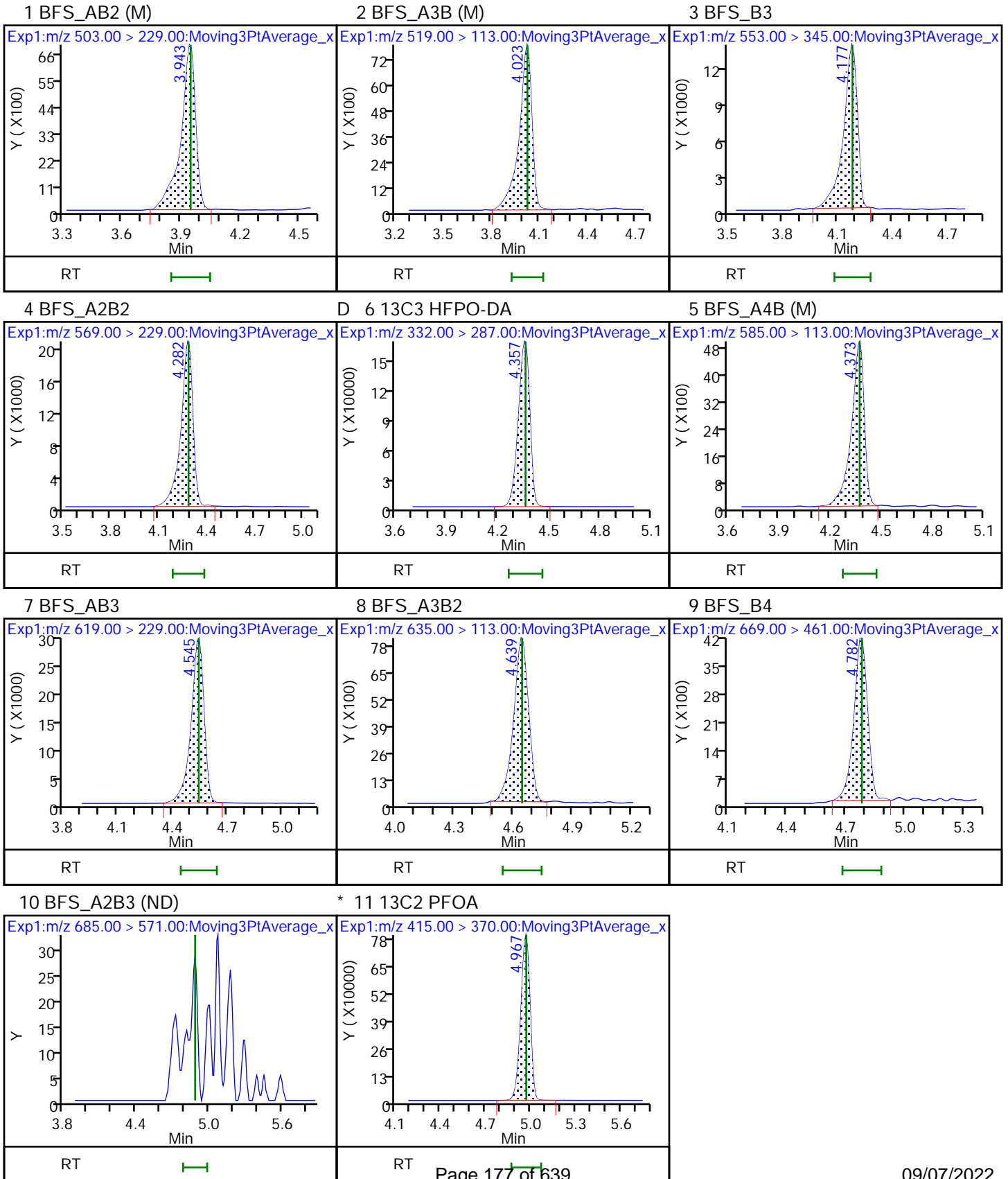
Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-15.d
Injection Date: 27-Jul-2022 12:04:47 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

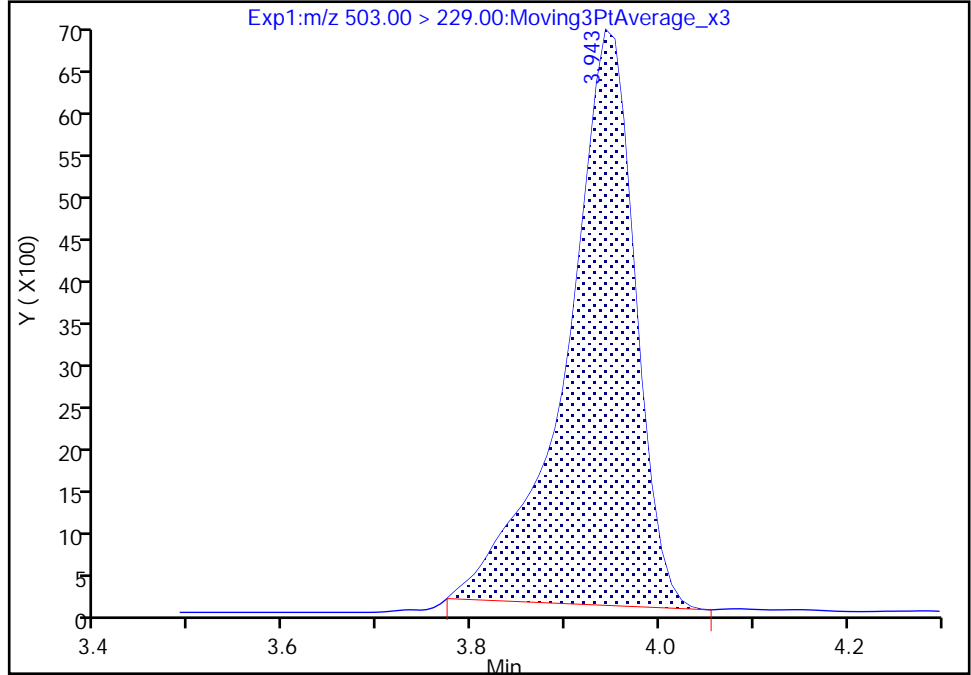
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-15.d
Injection Date: 27-Jul-2022 12:04:47 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

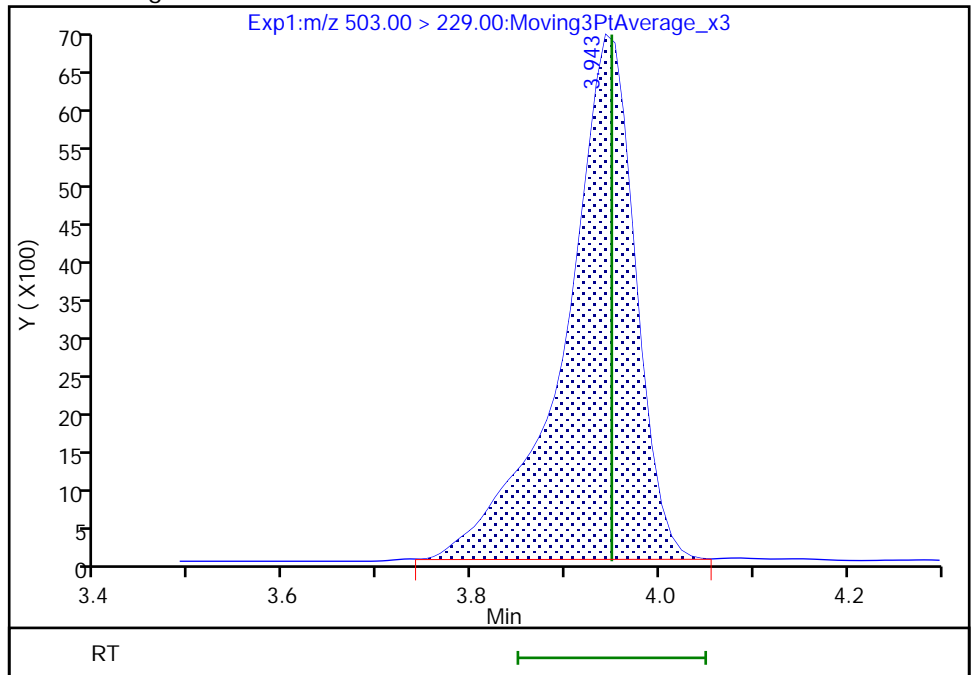
RT: 3.94
Area: 34915
Amount: 0.126228
Amount Units: ng/ml

Processing Integration Results



RT: 3.94
Area: 36239
Amount: 0.143535
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 13:36:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

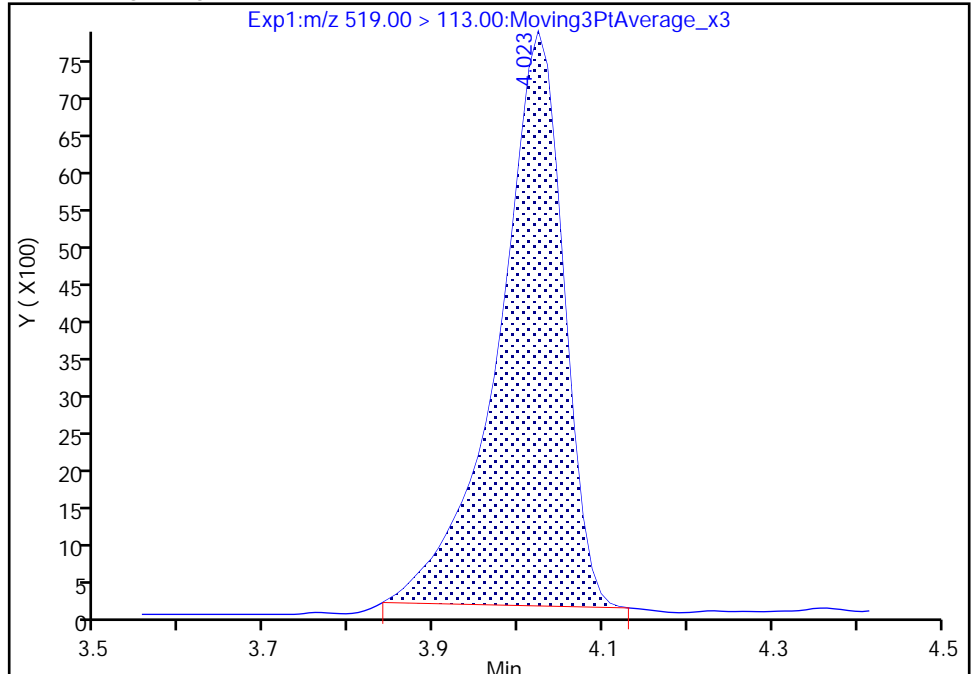
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-15.d
Injection Date: 27-Jul-2022 12:04:47 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

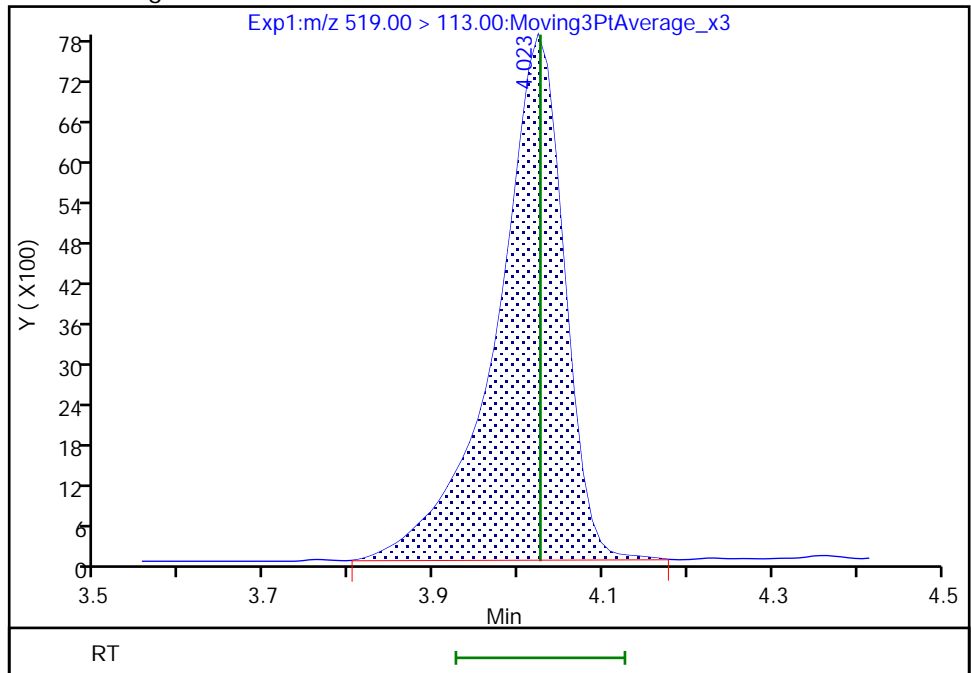
RT: 4.02
Area: 41372
Amount: 0.136322
Amount Units: ng/ml

Processing Integration Results



RT: 4.02
Area: 43523
Amount: 0.149065
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 13:37:00
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

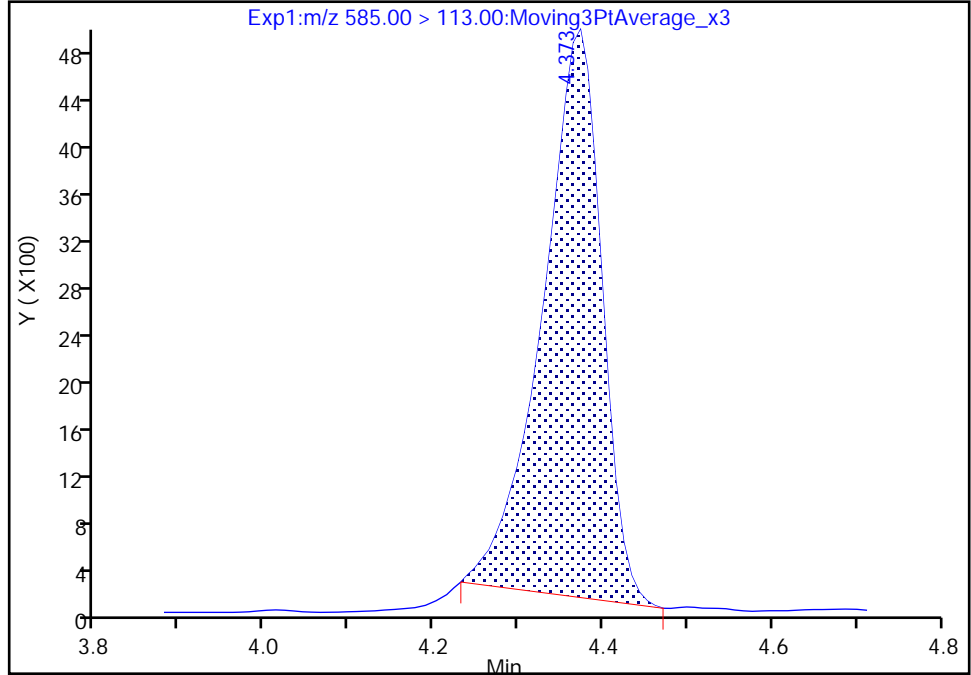
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-15.d
Injection Date: 27-Jul-2022 12:04:47 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

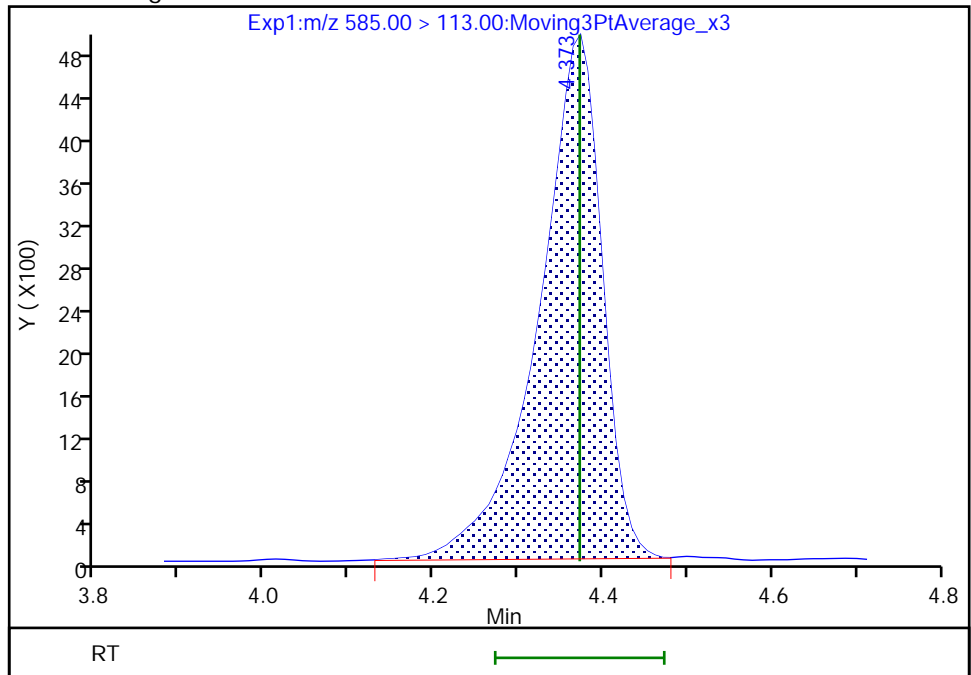
RT: 4.37
Area: 23435
Amount: 0.070613
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 25651
Amount: 0.078783
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 13:37:06
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-16.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 27-Jul-2022 12:17:24 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:38:58 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 13:37:28

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags	
1 BFS_AB2	503.00 > 229.00	3.955	3.949	0.006	0.905	90027	0.3625	102	1887	
2 BFS_A3B	519.00 > 113.00	4.026	4.026	0.0	0.921	110898	0.4059	102	354	
3 BFS_B3	553.00 > 345.00	4.181	4.181	0.0	0.957	182239	1.31	103	244	
4 BFS_A2B2	569.00 > 229.00	4.294	4.286	0.008	0.983	268428	2.81	101	757	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.363	0.006	0.878	708003	5.03	101	2127	
5 BFS_A4B	585.00 > 113.00	4.377	4.372	0.005	1.002	66725	0.2241	102	326	
7 BFS_AB3	619.00 > 229.00	4.552	4.544	0.008	1.042	374049	3.10	104	971	
8 BFS_A3B2	635.00 > 113.00	4.645	4.644	0.001	1.063	126785	0.5711	109	540	
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.094	50908	0.6969	101	120	
10 BFS_A2B3	685.00 > 571.00	4.916	4.893	0.023	1.125	492	0.0496	94.6	10.4	M
* 11 13C2 PFOA	415.00 > 370.00	4.976	4.970	0.006		3138382	5.00		3498	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

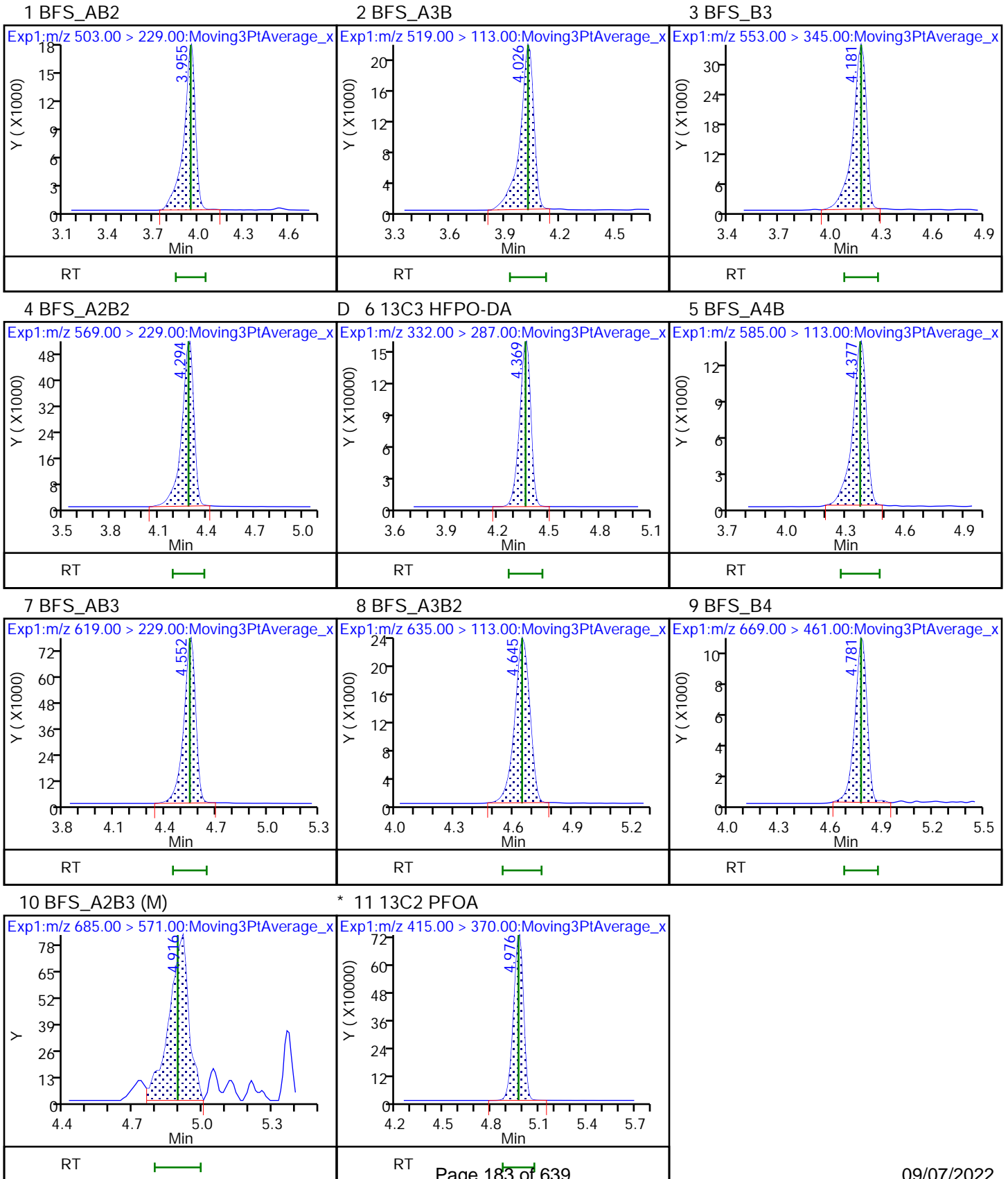
Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-16.d
Injection Date: 27-Jul-2022 12:17:24 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

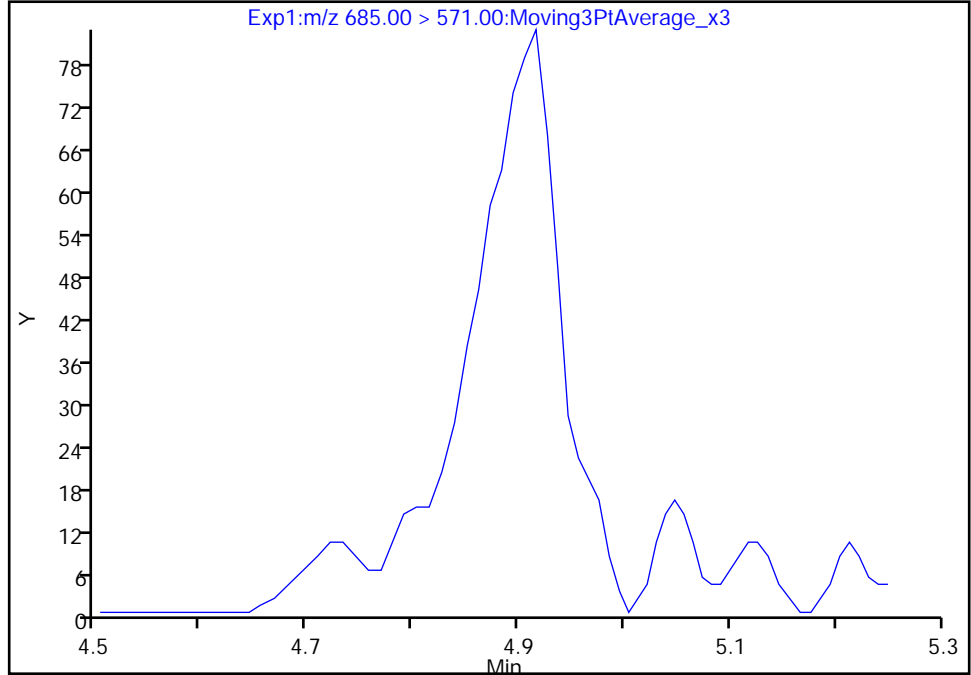
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-16.d
Injection Date: 27-Jul-2022 12:17:24 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

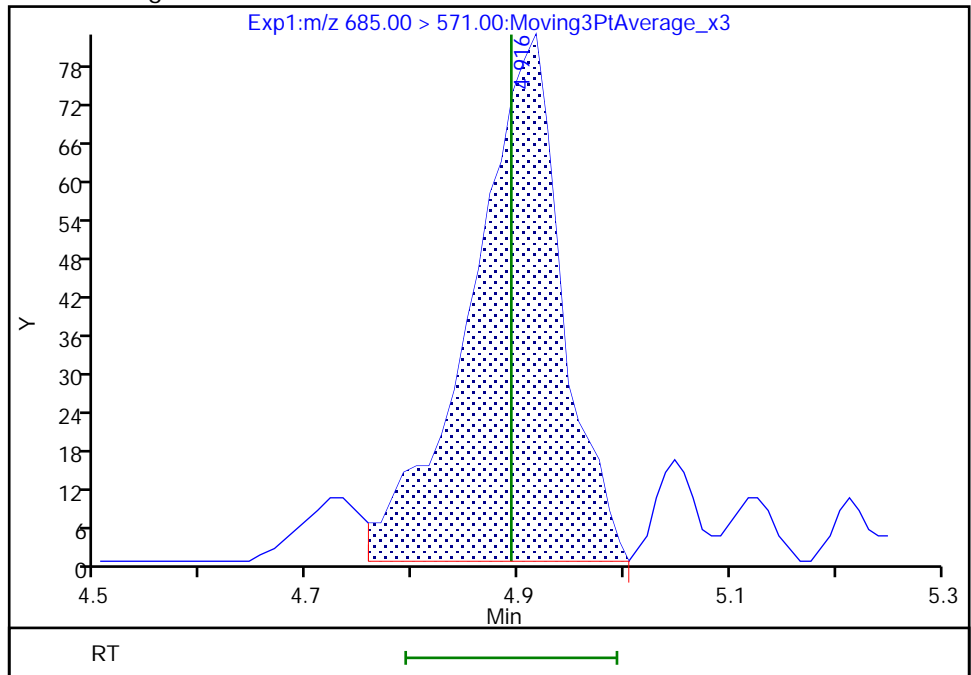
Not Detected
Expected RT: 4.89

Processing Integration Results



RT: 4.92
Area: 492
Amount: 0.049562
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 13:37:24
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-17.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 27-Jul-2022 12:30:01 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:38:58 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 13:37:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags	
1 BFS_AB2	503.00 > 229.00	3.949	3.949	0.0	0.905	228449	0.8909	100	4489	
2 BFS_A3B	519.00 > 113.00	4.019	4.026	-0.007	0.922	277215	1.00	101	554	
3 BFS_B3	553.00 > 345.00	4.173	4.181	-0.008	0.957	466440	3.40	107	486	
4 BFS_A2B2	569.00 > 229.00	4.278	4.286	-0.008	0.981	702521	7.32	105	1063	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.361	4.363	-0.002	0.878	710074	4.86	97.3	2254	
5 BFS_A4B	585.00 > 113.00	4.369	4.372	-0.003	1.002	171228	0.5721	104	571	
7 BFS_AB3	619.00 > 229.00	4.542	4.544	-0.002	1.041	941609	7.76	104	2155	
8 BFS_A3B2	635.00 > 113.00	4.635	4.644	-0.009	1.063	301391	1.32	101	783	
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.096	132871	1.79	104	254	
10 BFS_A2B3	685.00 > 571.00	4.884	4.891	-0.007	1.120	1006	0.1234	94.2	25.3	M
* 11 13C2 PFOA	415.00 > 370.00	4.967	4.970	-0.003		3257343	5.00		4035	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-17.d

Injection Date: 27-Jul-2022 12:30:01

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

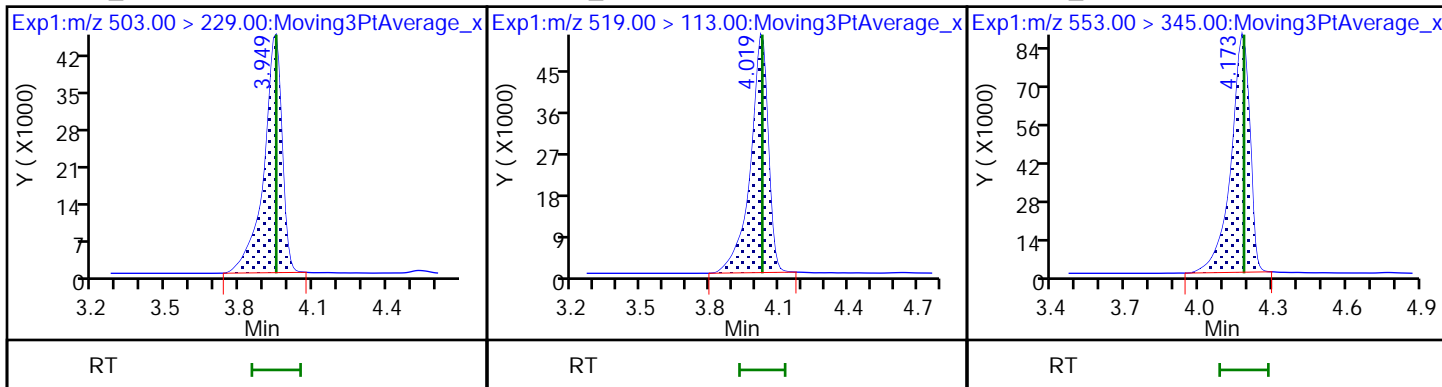
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

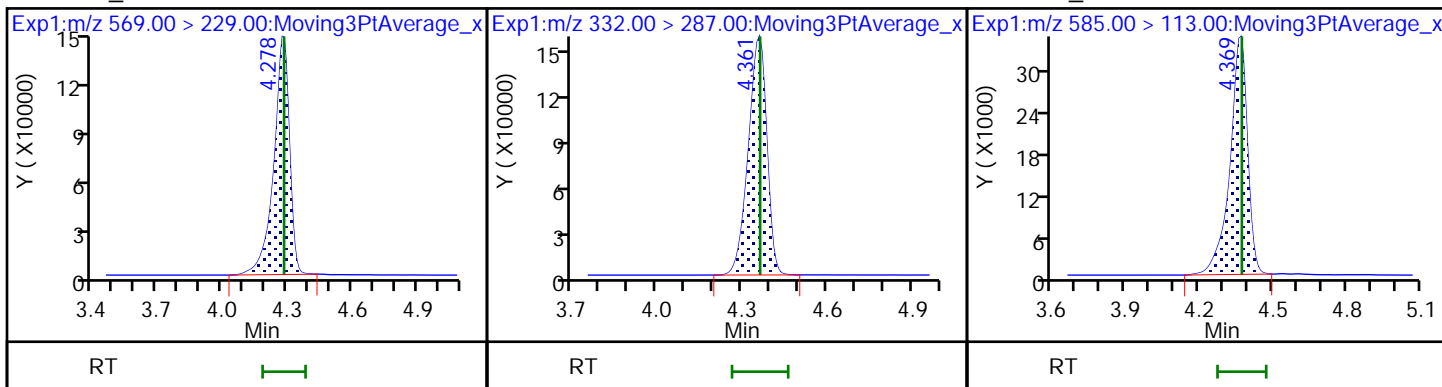
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

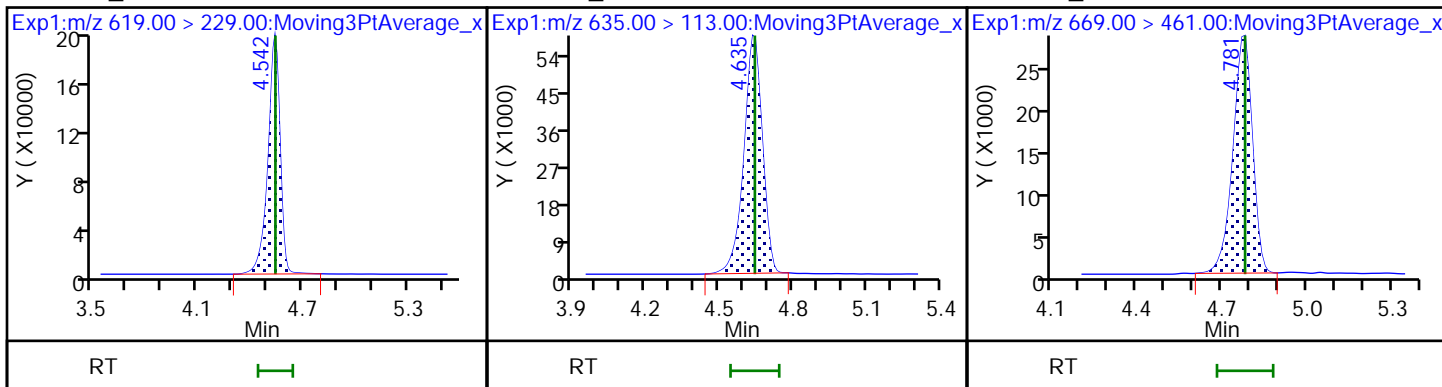
5 BFS_A4B



7 BFS_AB3

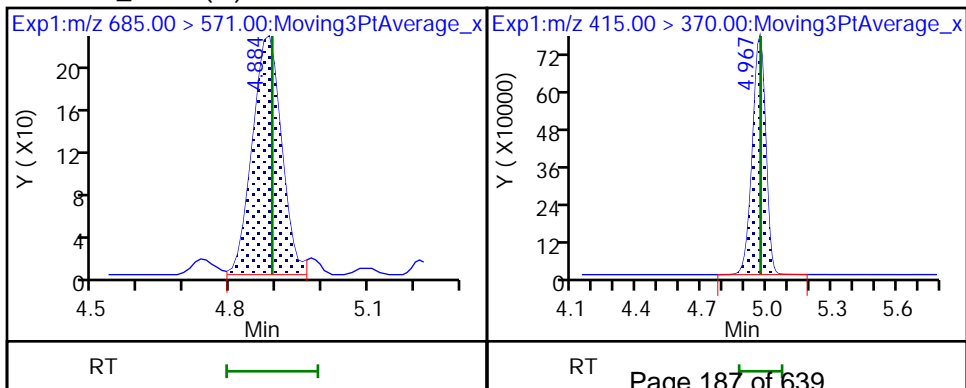
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

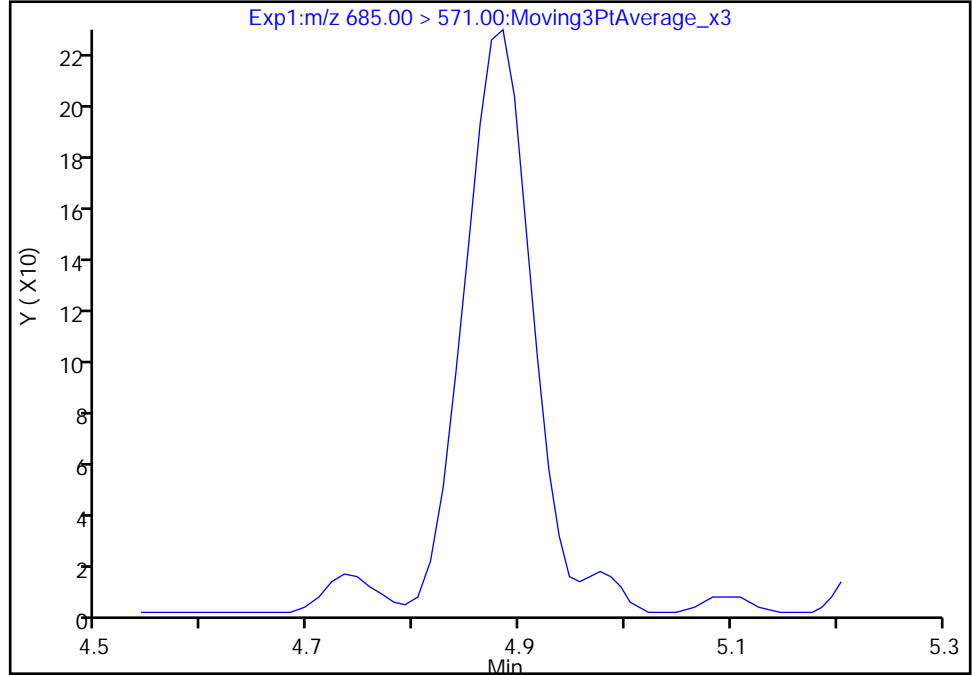
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-17.d
Injection Date: 27-Jul-2022 12:30:01 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

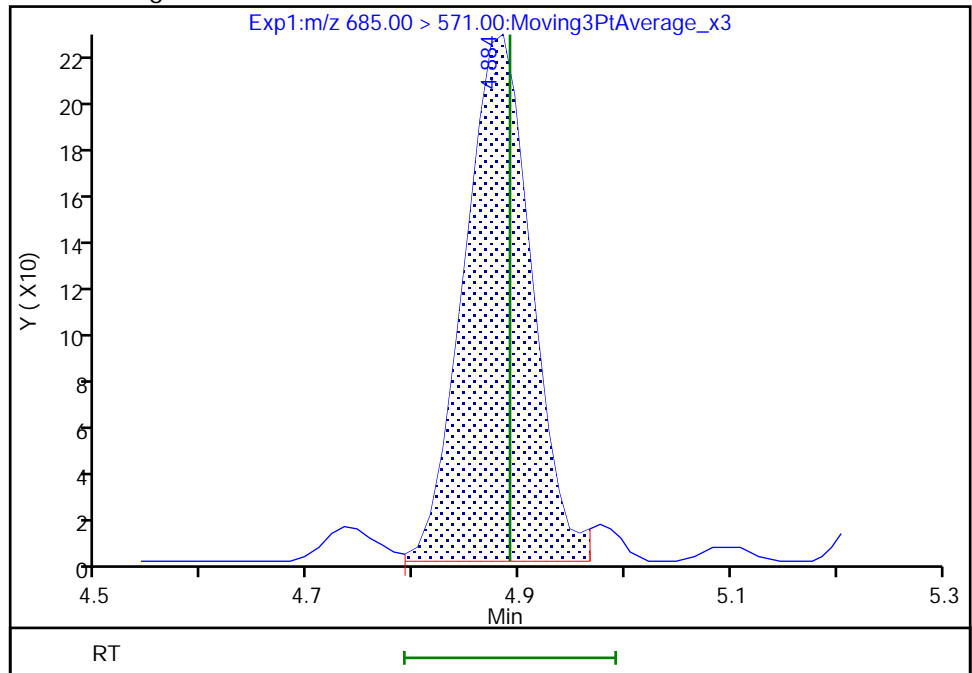
Not Detected
Expected RT: 4.89

Processing Integration Results



Manual Integration Results

RT: 4.88
Area: 1006
Amount: 0.123413
Amount Units: ng/ml



Reviewer: JVK6, 27-Jul-2022 13:37:41
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-18.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 27-Jul-2022 12:42:37 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:38:59 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 13:36:44

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.943	3.949	-0.006	0.905	500898	1.74	97.9	7461
2 BFS_A3B	519.00 > 113.00	4.024	4.026	-0.002	0.923	613875	1.99	100	651
3 BFS_B3	553.00 > 345.00	4.178	4.181	-0.003	0.959	1043564	6.89	109	626
4 BFS_A2B2	569.00 > 229.00	4.283	4.286	-0.003	0.983	1499360	14.1	102	1079
D 6 13C3 HFPO-DA	332.00 > 287.00	4.358	4.363	-0.005	0.878	787758	5.12	102	2680
5 BFS_A4B	585.00 > 113.00	4.366	4.372	-0.006	1.002	370170	1.11	101	914
7 BFS_AB3	619.00 > 229.00	4.538	4.544	-0.006	1.041	2045608	15.2	102	2304
8 BFS_A3B2	635.00 > 113.00	4.640	4.644	-0.004	1.065	675857	2.66	101	1010
9 BFS_B4	669.00 > 461.00	4.776	4.781	-0.005	1.096	286932	3.49	101	511
10 BFS_A2B3	685.00 > 571.00	4.879	4.892	-0.013	1.120	2165	0.2596	99.1	56.5 M
* 11 13C2 PFOA	415.00 > 370.00	4.961	4.970	-0.009		3435201	5.00		3985

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File:

\\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-18.d

Injection Date:

27-Jul-2022 12:42:37

Instrument ID:

30733

Lims ID:

ICISAV CAL 5

Client ID:

Operator ID:

US19_USR_INS20260

ALS Bottle#:

6

Worklist Smp#:

5

Injection Vol:

10.0 ul

Dil. Factor:

1.0000

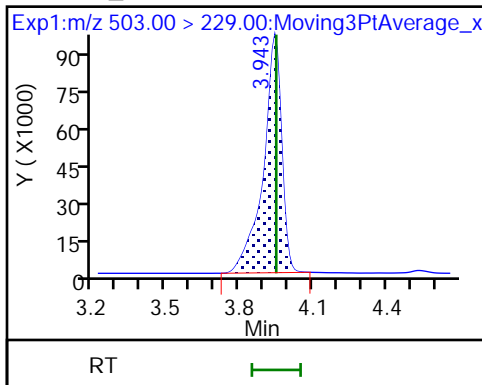
Method:

BFS_IDA_30733

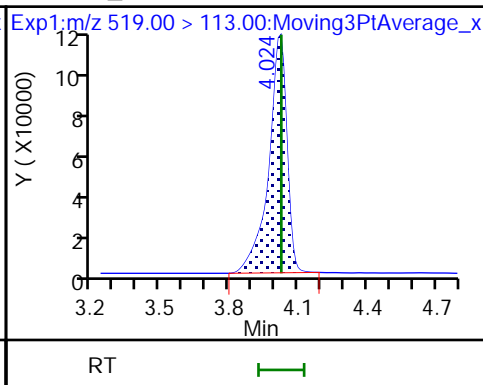
Limit Group:

LC - BFS_IDA

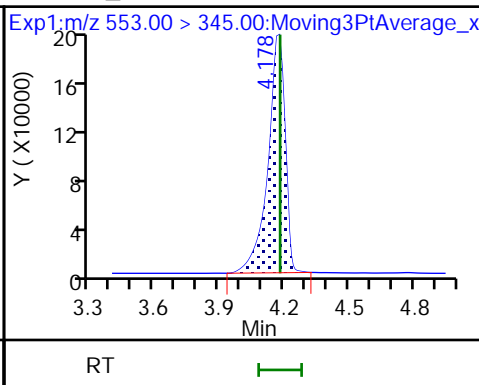
1 BFS_AB2



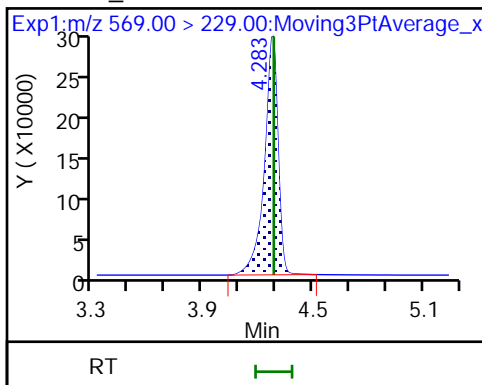
2 BFS_A3B



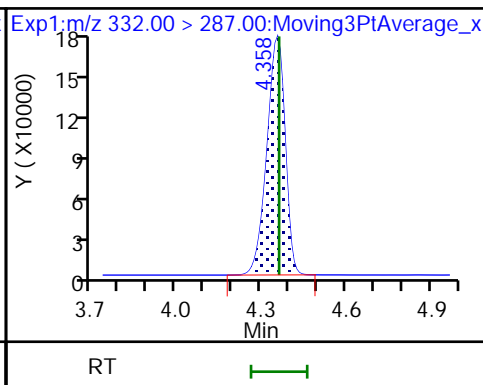
3 BFS_B3



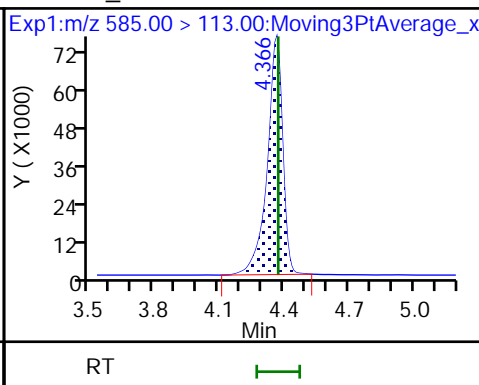
4 BFS_A2B2



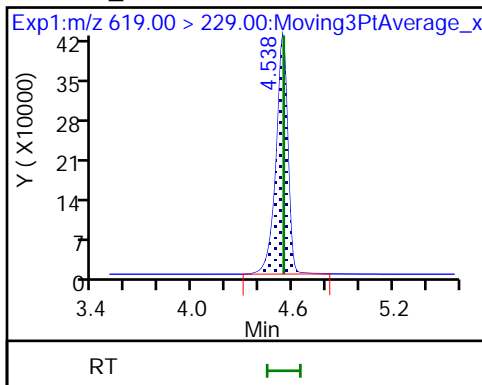
D 6 13C3 HFPO-DA



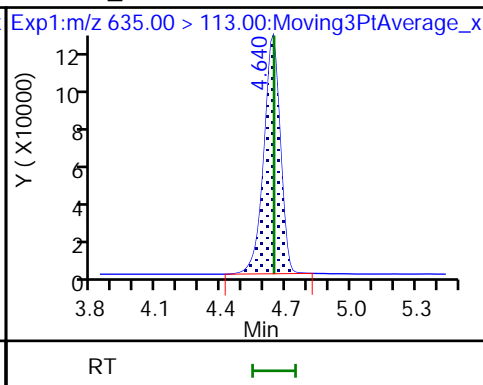
5 BFS_A4B



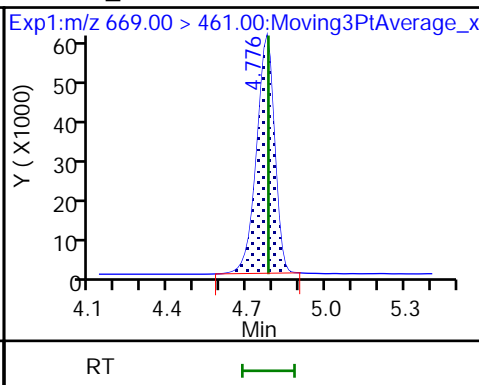
7 BFS_AB3



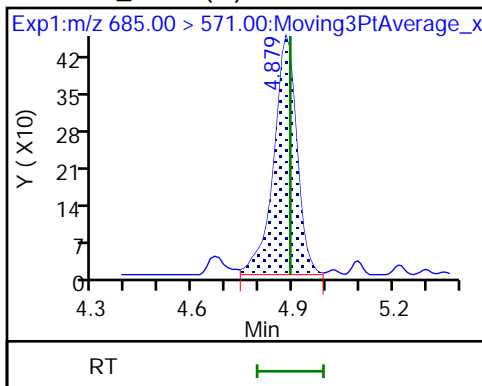
8 BFS_A3B2



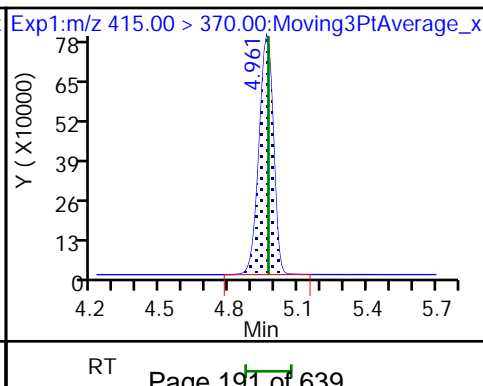
9 BFS_B4



10 BFS_A2B3 (M)



* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

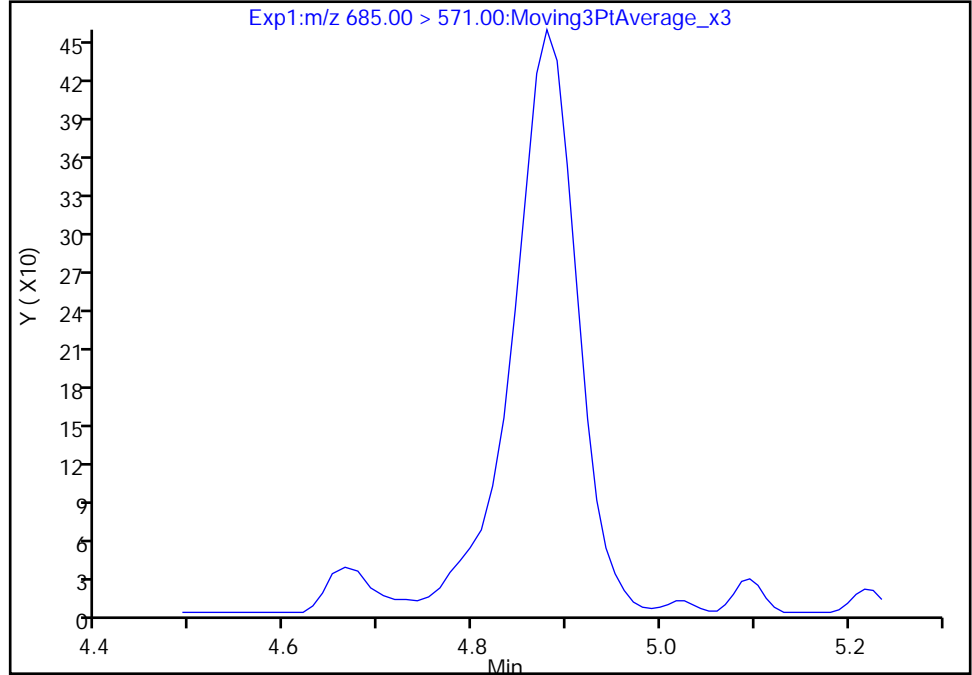
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-18.d
Injection Date: 27-Jul-2022 12:42:37 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

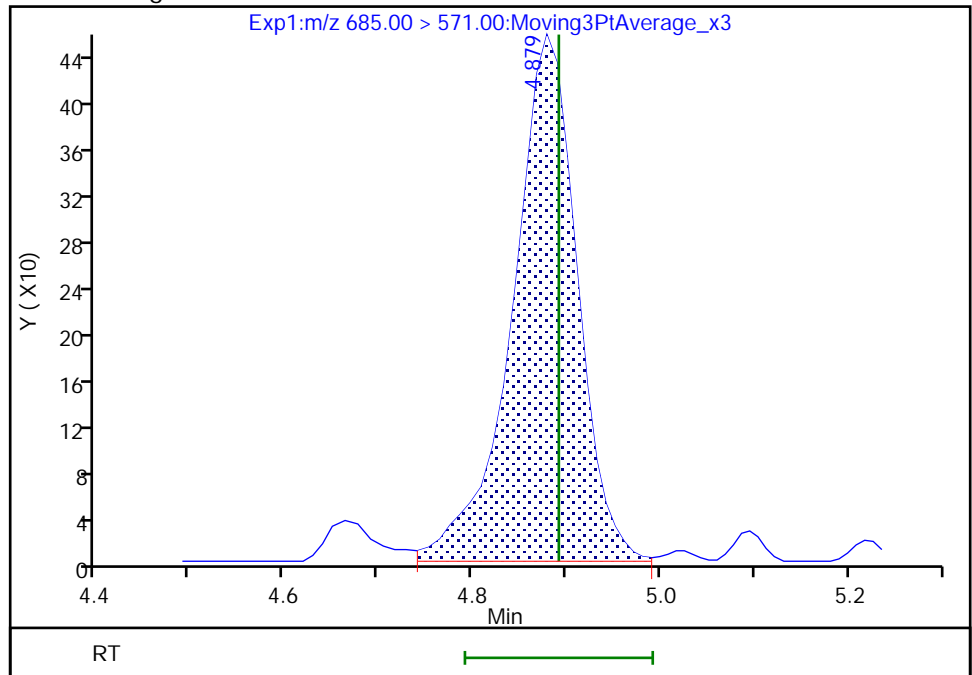
Not Detected
Expected RT: 4.89

Processing Integration Results



Manual Integration Results

RT: 4.88
Area: 2165
Amount: 0.259643
Amount Units: ng/ml



Reviewer: JVK6, 27-Jul-2022 13:36:38
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-19.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 27-Jul-2022 12:55:13 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:39:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 13:39:39

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.949	0.002	0.906	1194397	4.24	95.3	12585
2 BFS_A3B	519.00 > 113.00	4.032	4.026	0.006	0.924	1455922	4.84	97.3	793
3 BFS_B3	553.00 > 345.00	4.188	4.181	0.007	0.960	2362846	16.1	101	966
4 BFS_A2B2	569.00 > 229.00	4.288	4.286	0.002	0.983	3508637	34.0	97.9	1857
D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.363	0.0	0.878	767581	5.09	102	2271
5 BFS_A4B	585.00 > 113.00	4.372	4.372	0.0	1.002	862806	2.66	96.9	945
7 BFS_AB3	619.00 > 229.00	4.544	4.544	0.0	1.041	4748880	36.5	98.2	2863
8 BFS_A3B2	635.00 > 113.00	4.648	4.644	0.004	1.065	1525618	6.15	93.9	1233
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.096	667393	8.32	96.3	877
10 BFS_A2B3	685.00 > 571.00	4.896	4.892	0.004	1.122	5529	0.7154	109	96.9 M
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.970	-0.002		3364156	5.00		3690

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-19.d

Injection Date: 27-Jul-2022 12:55:13

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

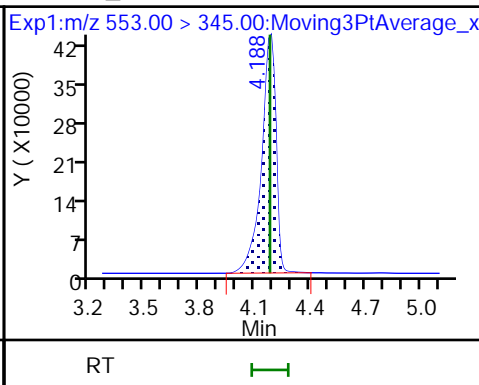
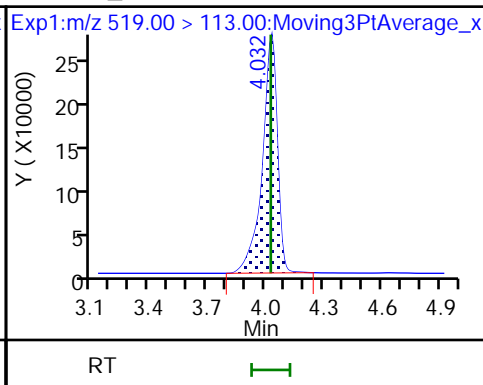
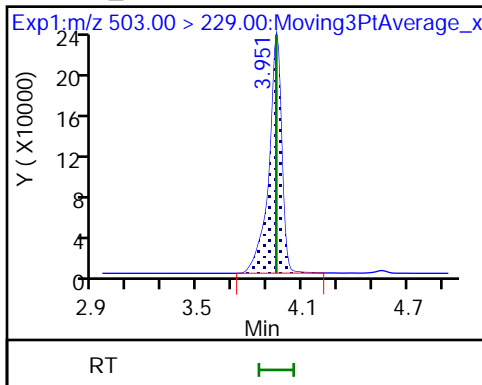
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

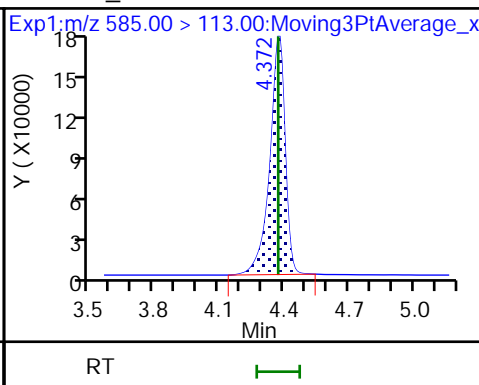
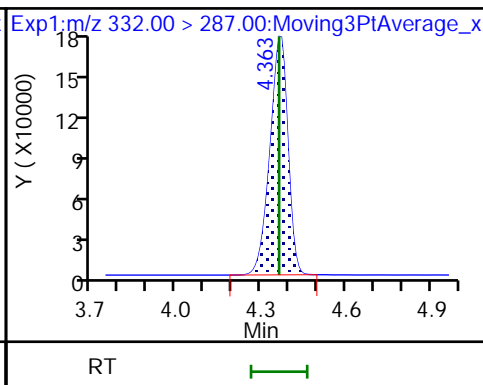
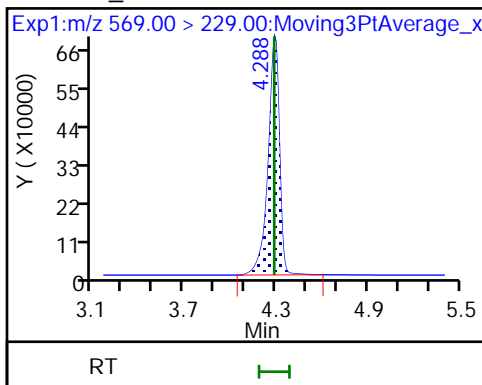
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

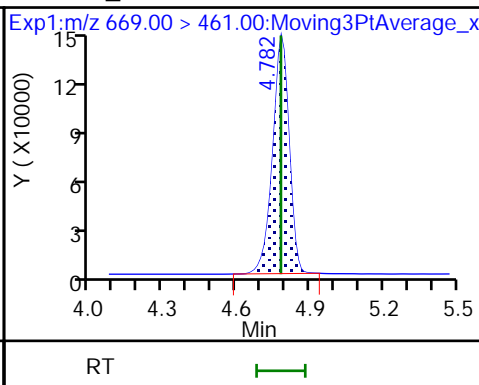
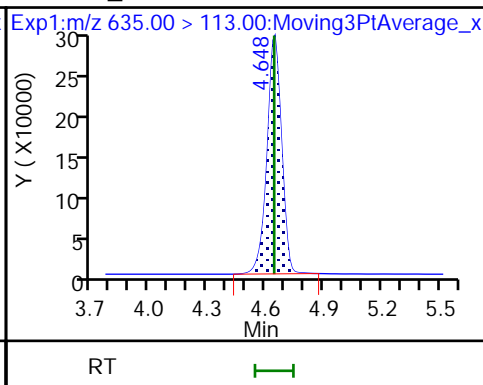
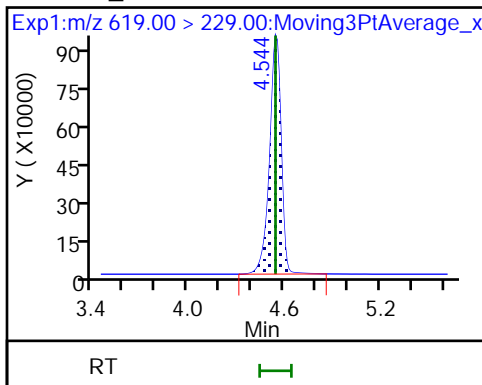
5 BFS_A4B



7 BFS_AB3

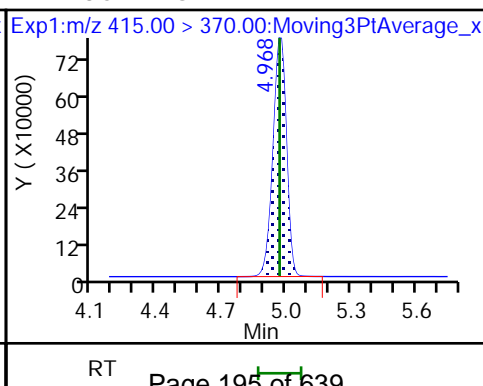
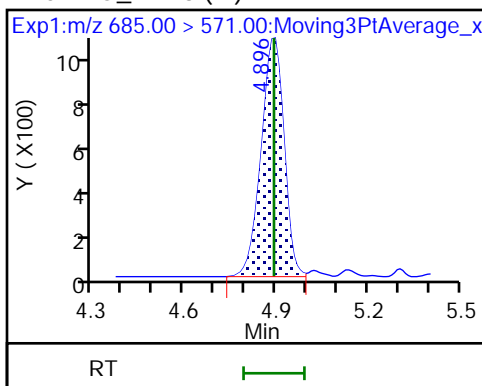
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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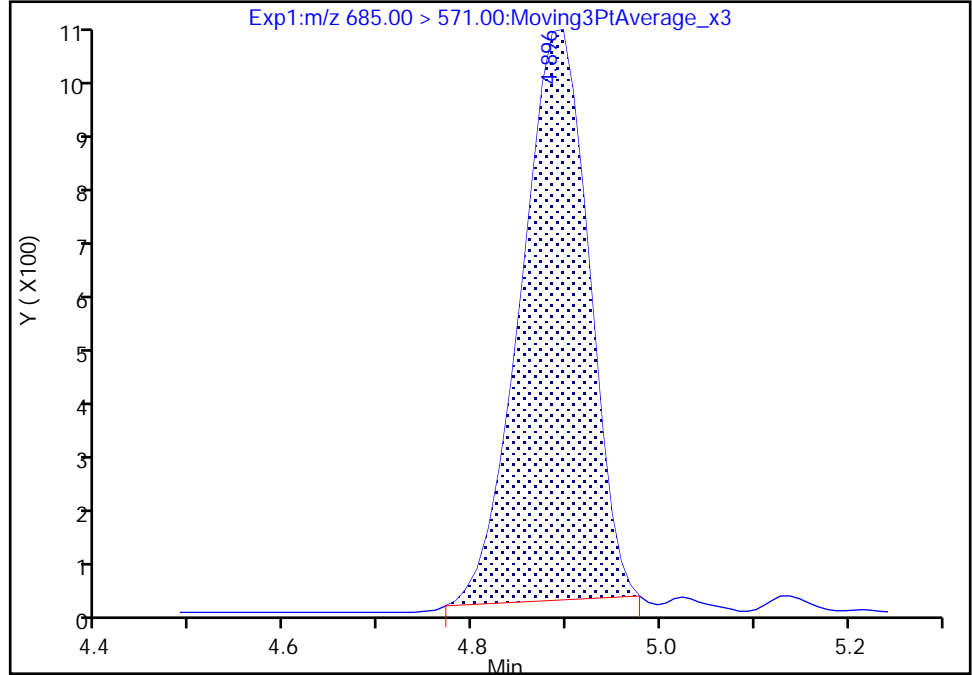
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-19.d
Injection Date: 27-Jul-2022 12:55:13 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

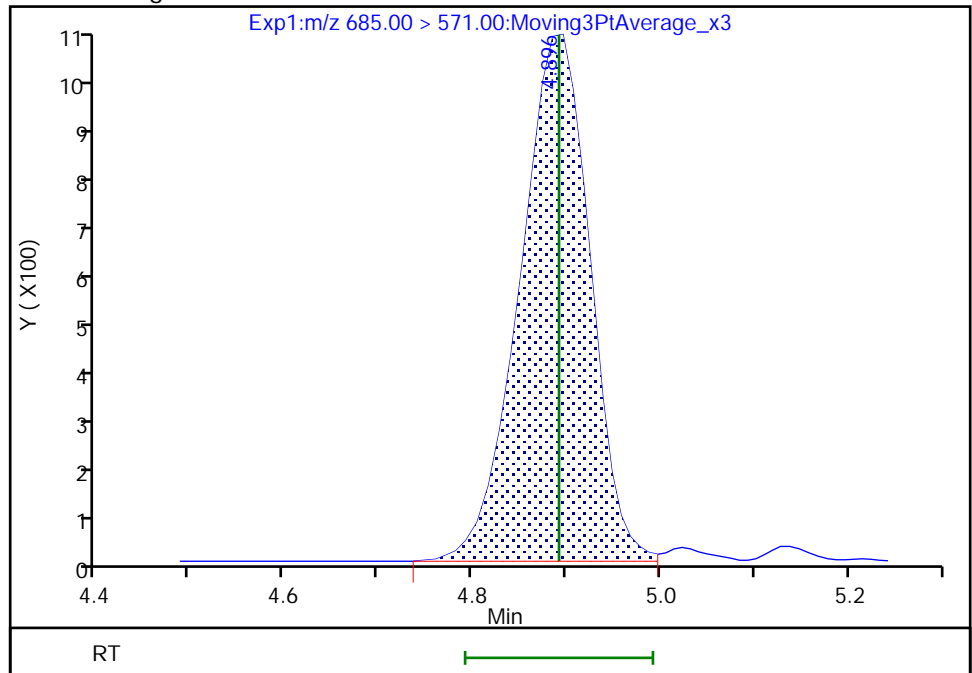
RT: 4.90
Area: 5238
Amount: 0.701431
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 5529
Amount: 0.715414
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 27-Jul-2022 13:39:36
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-20.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 27-Jul-2022 13:07:47 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 13.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:39:01 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 13:39:46

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.955	3.949	0.006	0.905	2444395	9.01	101	18275
2 BFS_A3B	519.00 > 113.00	4.026	4.026	0.0	0.921	2922787	10.1	101	971
3 BFS_B3	553.00 > 345.00	4.181	4.181	0.0	0.957	4793129	33.9	107	1153
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.981	6742881	68.4	98.5	1947
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.363	0.006	0.878	738449	5.00	100.0	2387
5 BFS_A4B	585.00 > 113.00	4.378	4.372	0.006	1.002	1728249	5.55	101	2958
7 BFS_AB3	619.00 > 229.00	4.552	4.544	0.008	1.042	8873473	71.8	96.6	7959
8 BFS_A3B2	635.00 > 113.00	4.645	4.644	0.001	1.063	3124294	13.2	101	2254
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.094	1292330	16.8	97.2	1572
10 BFS_A2B3	685.00 > 571.00	4.895	4.893	0.002	1.120	10289	1.40	107	238
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.970	0.007		3296935	5.00		4125

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-20.d

Injection Date: 27-Jul-2022 13:07:47

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 13.0 ul

Dil. Factor: 1.0000

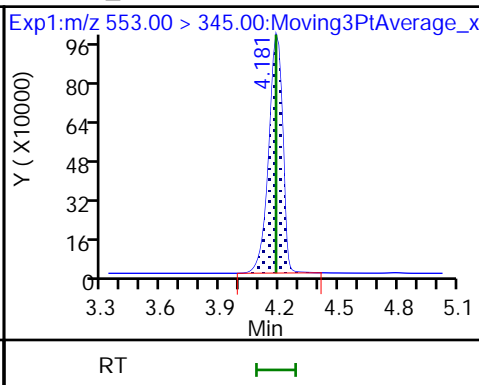
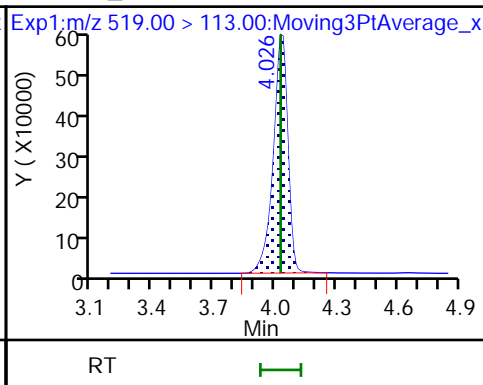
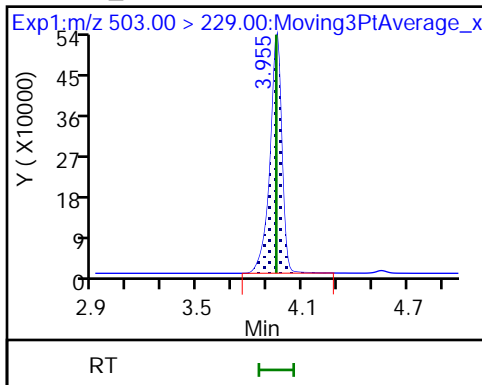
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

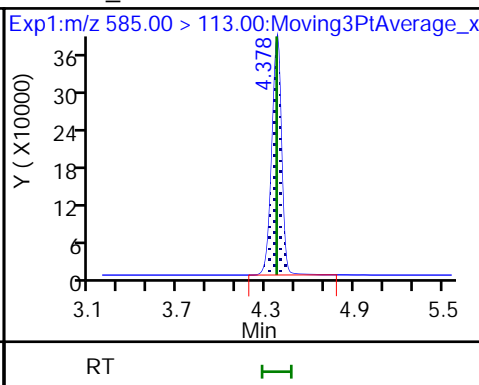
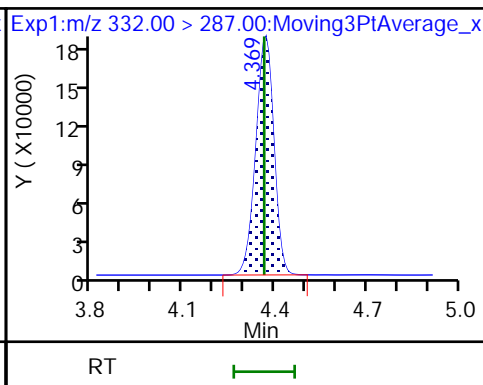
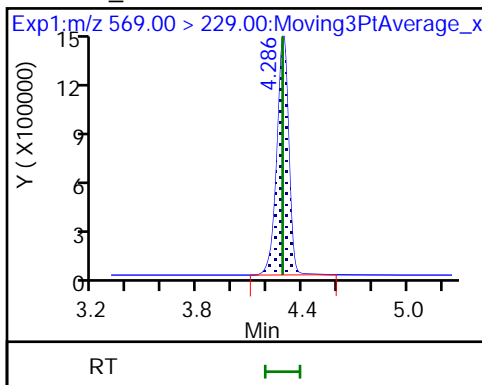
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

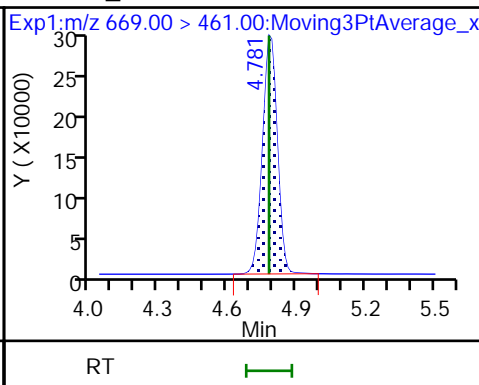
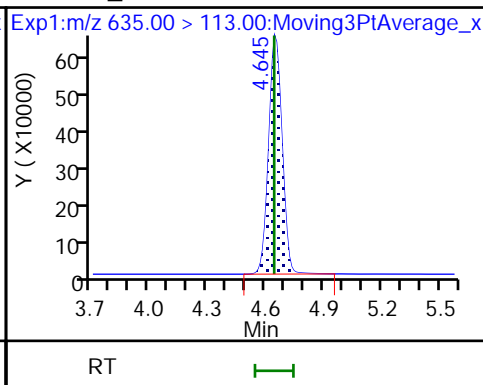
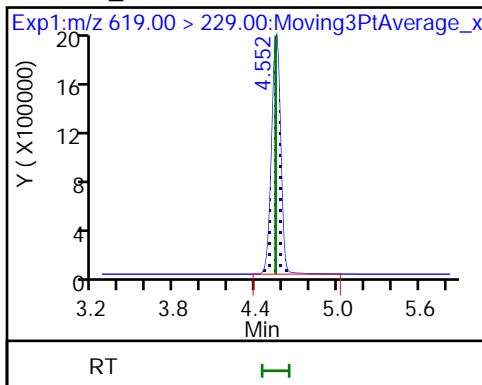
5 BFS_A4B



7 BFS_AB3

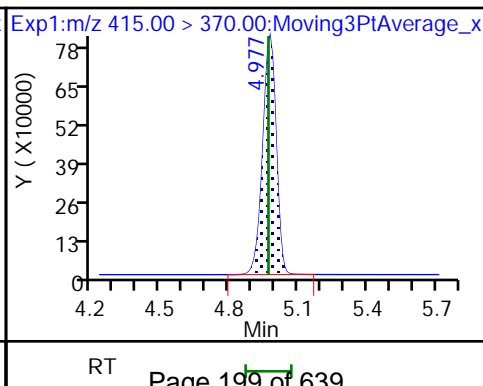
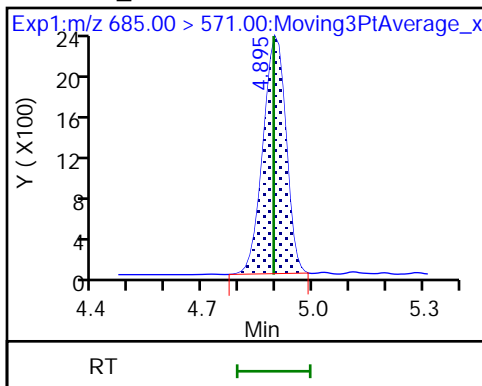
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-21.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 27-Jul-2022 13:20:25 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:39:02 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 13:40:48

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.949	3.949	0.0	0.905	4707637	17.5	98.3	17248
2 BFS_A3B	519.00 > 113.00	4.030	4.026	0.004	0.924	5733323	20.0	100	942
3 BFS_B3	553.00 > 345.00	4.186	4.181	0.005	0.960	9099655	65.1	103	1375
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.983	13191078	137.2	98.8	5046
D 6 13C3 HFPO-DA	332.00 > 287.00	4.361	4.363	-0.002	0.878	730853	4.96	99.1	2191
5 BFS_A4B	585.00 > 113.00	4.370	4.372	-0.002	1.002	3443989	11.2	101	1982
7 BFS_AB3	619.00 > 229.00	4.543	4.544	-0.001	1.042	17641722	148.4	99.7	24162
8 BFS_A3B2	635.00 > 113.00	4.646	4.644	0.002	1.065	5948944	25.7	98.0	2160
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.096	2698687	35.8	104	1894
10 BFS_A2B3	685.00 > 571.00	4.896	4.893	0.003	1.123	18538	2.57	98.2	386
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.970	-0.002		3290637	5.00		4055

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS8_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-21.d

Injection Date: 27-Jul-2022 13:20:25

Instrument ID: 30733

Lims ID: IC CAL 8

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

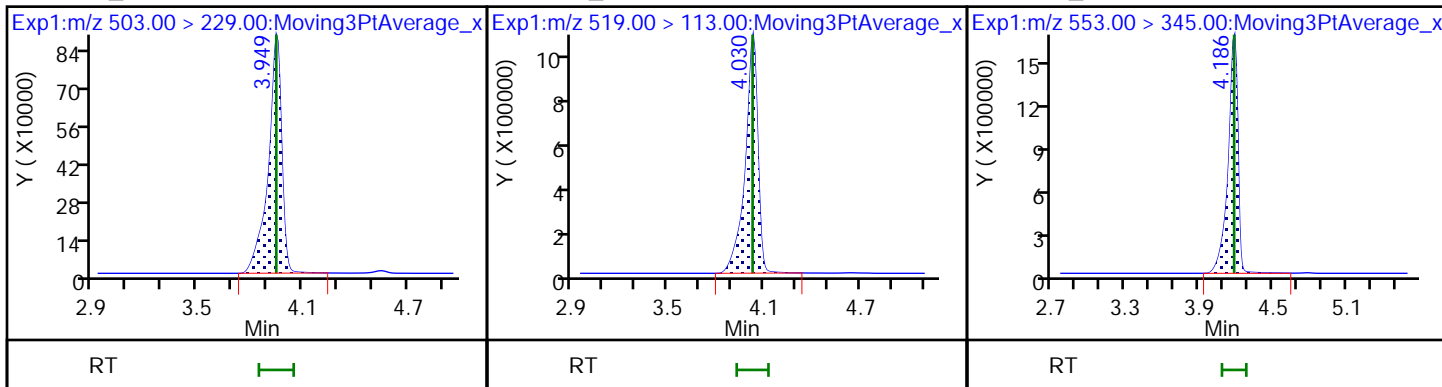
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

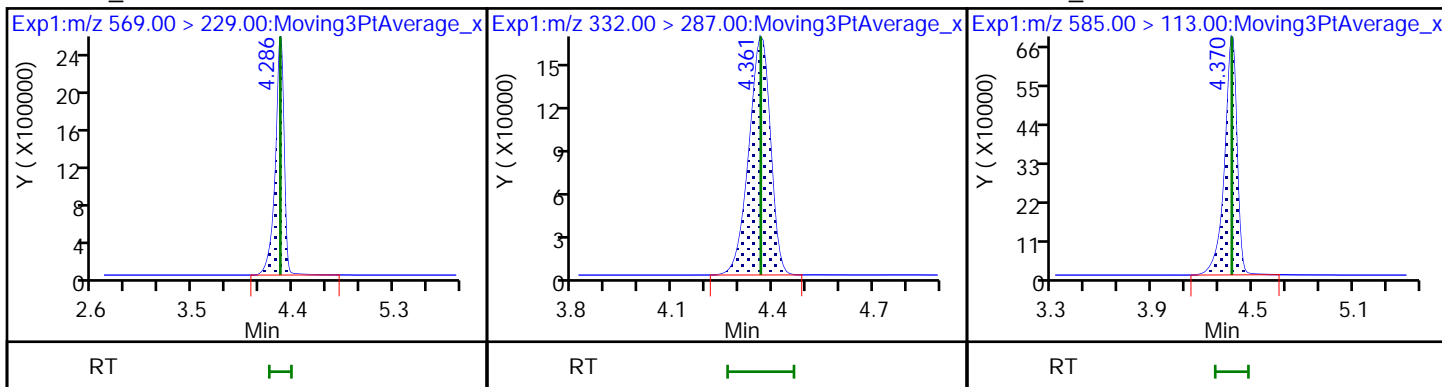
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

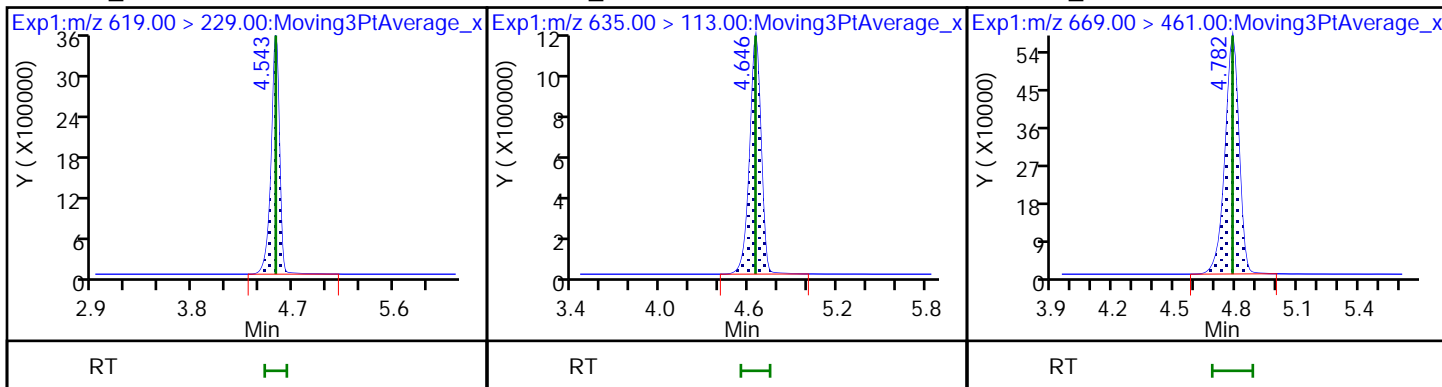
5 BFS_A4B



7 BFS_AB3

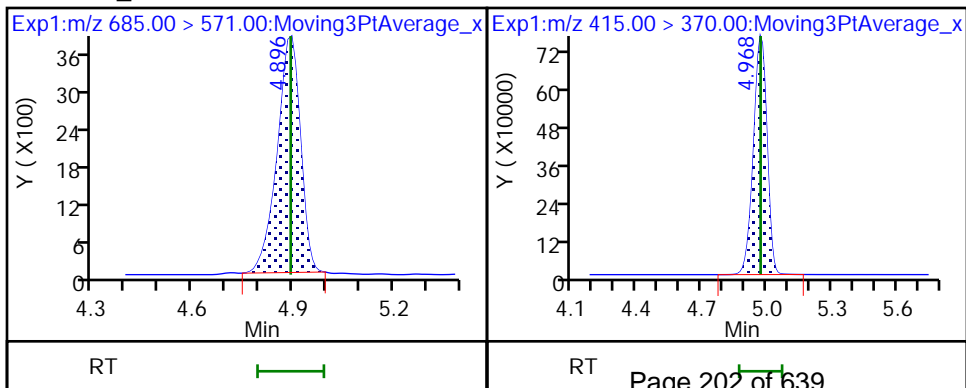
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-22.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 27-Jul-2022 13:33:02 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:39:02 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 27-Jul-2022 14:28:32

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.948	3.949	-0.001	0.905	9625154	34.2	96.1	21402
2 BFS_A3B	519.00 > 113.00	4.029	4.026	0.003	0.924	11641537	38.8	97.5	1002
3 BFS_B3	553.00 > 345.00	4.173	4.181	-0.008	0.957	18818884	128.8	102	1215
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.983	25842806	264.5	95.3	324652
D 6 13C3 HFPO-DA	332.00 > 287.00	4.361	4.363	-0.002	0.878	763934	4.98	99.6	2571
5 BFS_A4B	585.00 > 113.00	4.369	4.372	-0.003	1.002	6917391	21.5	97.5	2990
7 BFS_AB3	619.00 > 229.00	4.541	4.544	-0.003	1.041	32726572	276.5	92.9	152291
8 BFS_A3B2	635.00 > 113.00	4.645	4.644	0.001	1.065	12052126	51.2	97.8	2798
9 BFS_B4	669.00 > 461.00	4.780	4.781	-0.001	1.096	5242109	67.6	97.7	2537
10 BFS_A2B3	685.00 > 571.00	4.884	4.893	-0.009	1.120	38044	5.07	96.8	525 M
* 11 13C2 PFOA	415.00 > 370.00	4.966	4.970	-0.004		3421729	5.00		3880

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS9_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-22.d

Injection Date: 27-Jul-2022 13:33:02

Instrument ID: 30733

Lims ID: IC CAL 9

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

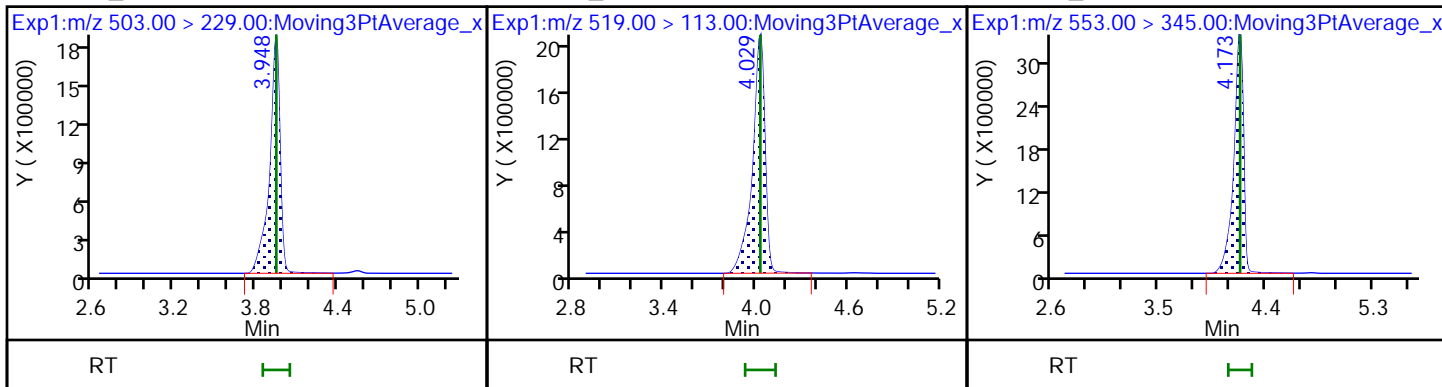
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

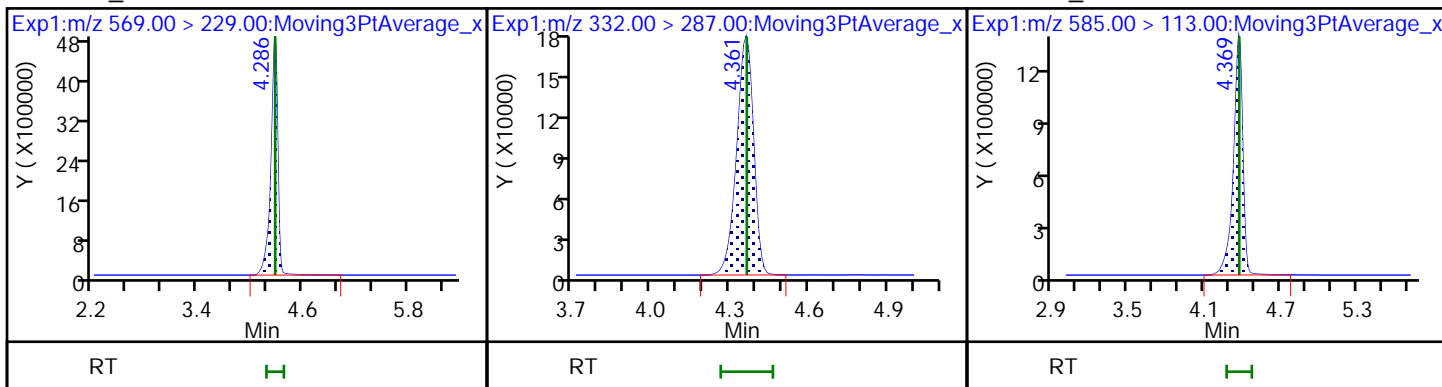
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

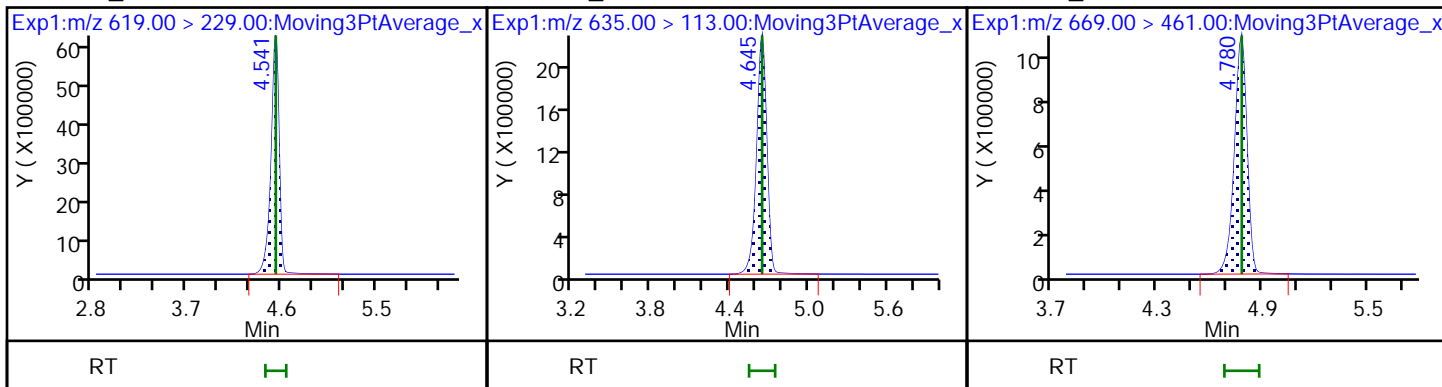
5 BFS_A4B



7 BFS_AB3

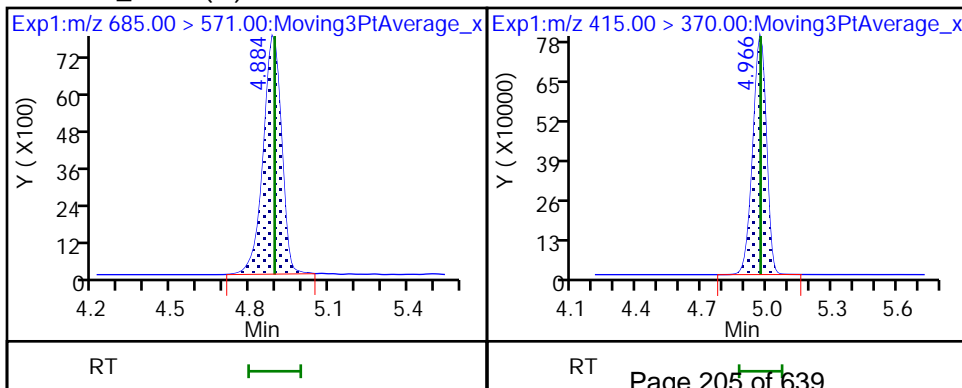
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

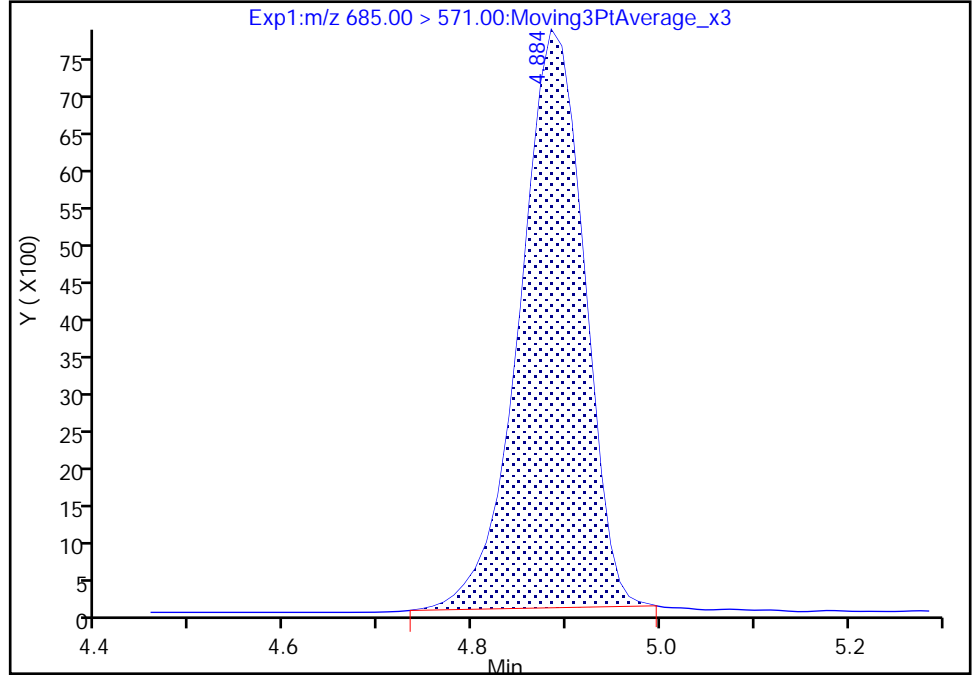
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-22.d
Injection Date: 27-Jul-2022 13:33:02 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

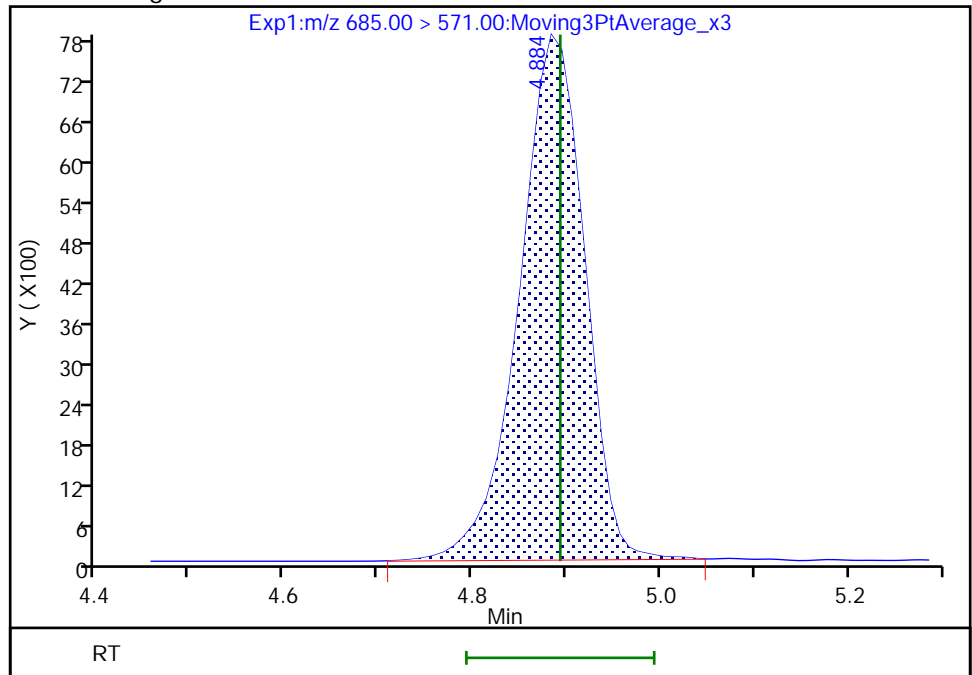
RT: 4.88
Area: 37261
Amount: 5.062553
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 38044
Amount: 5.073475
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 06:33:44
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 27-Jul-2022 13:45:36 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:39:03 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 06:33:51

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.949	3.949	0.0	0.904	24104972	90.9	102	28117
2 BFS_A3B	519.00 > 113.00	4.029	4.026	0.003	0.922	28382705	100.4	101	1133
3 BFS_B3	553.00 > 345.00	4.186	4.181	0.005	0.958	42716992	310.1	97.8	1349
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.981	59101046	714.7	103	5520
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.363	0.006	0.878	720374	4.78	95.5	2099
5 BFS_A4B	585.00 > 113.00	4.378	4.372	0.006	1.002	16841868	55.4	101	4978
7 BFS_AB3	619.00 > 229.00	4.542	4.544	-0.002	1.039	70272945	786.2	106	5578
8 BFS_A3B2	635.00 > 113.00	4.645	4.644	0.001	1.063	26763627	133.5	102	3297
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.094	12043415	174.1	101	5147
10 BFS_A2B3	685.00 > 571.00	4.895	4.893	0.002	1.120	92862	13.2	101	1012
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.970	0.007		3365009	5.00		4997

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Injection Date: 27-Jul-2022 13:45:36

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

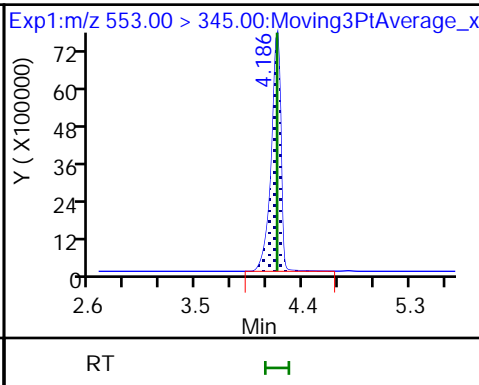
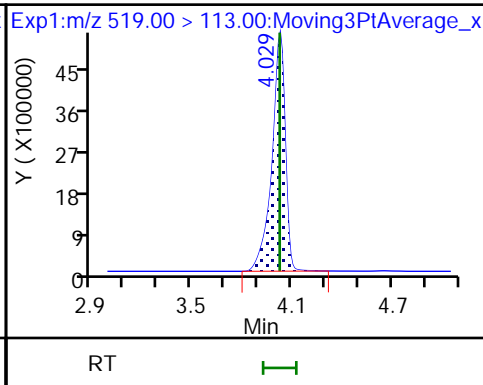
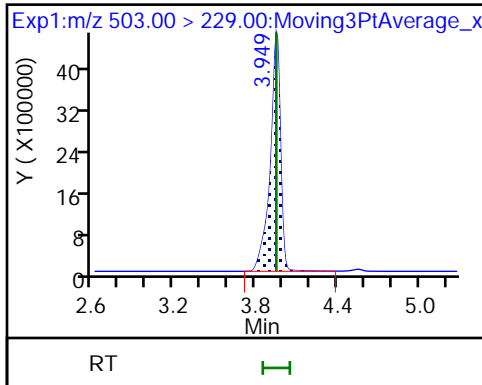
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

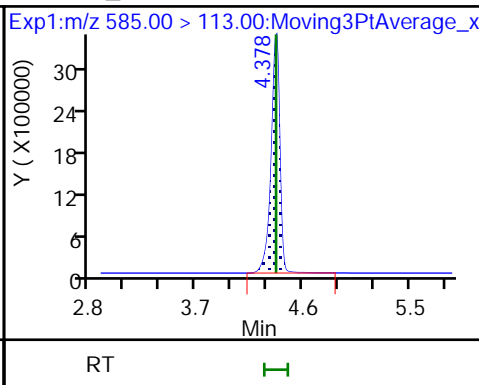
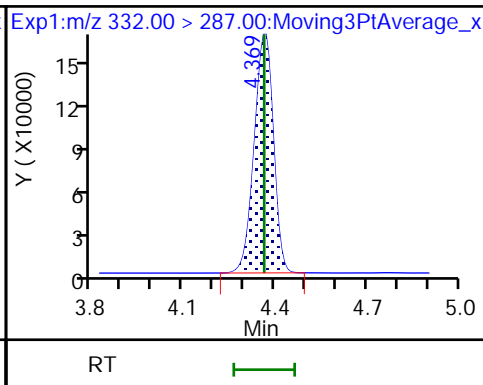
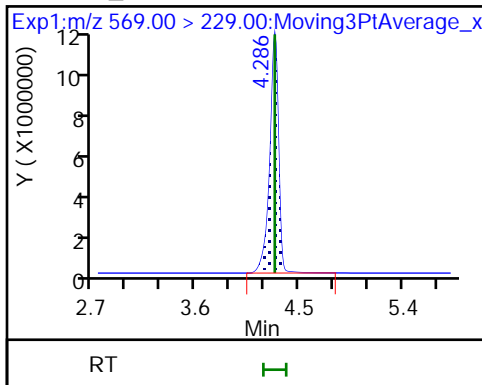
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

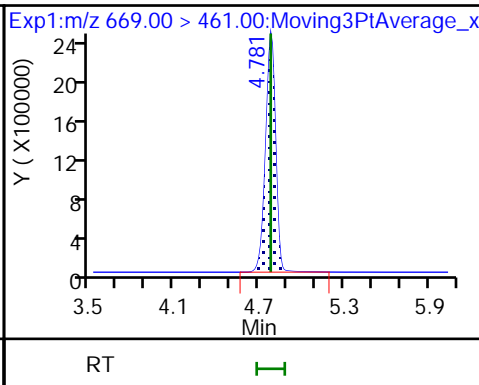
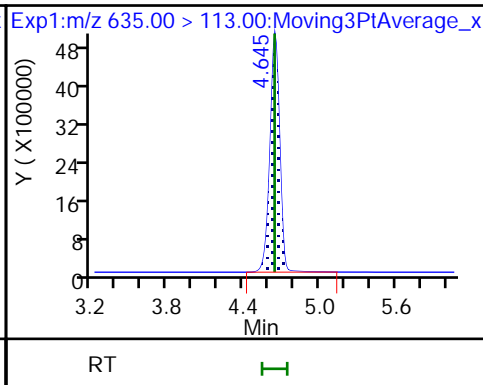
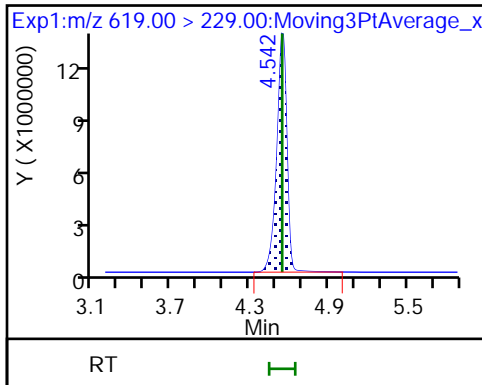
5 BFS_A4B



7 BFS_AB3

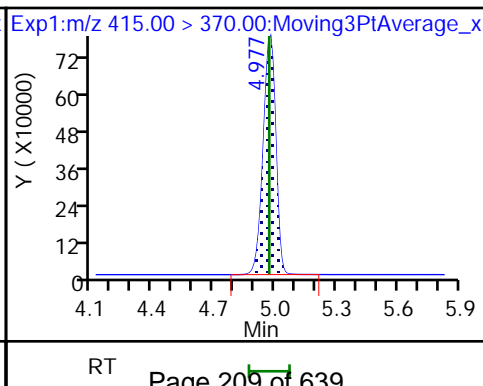
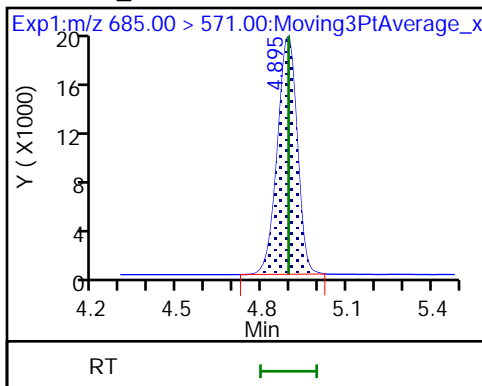
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Calibration

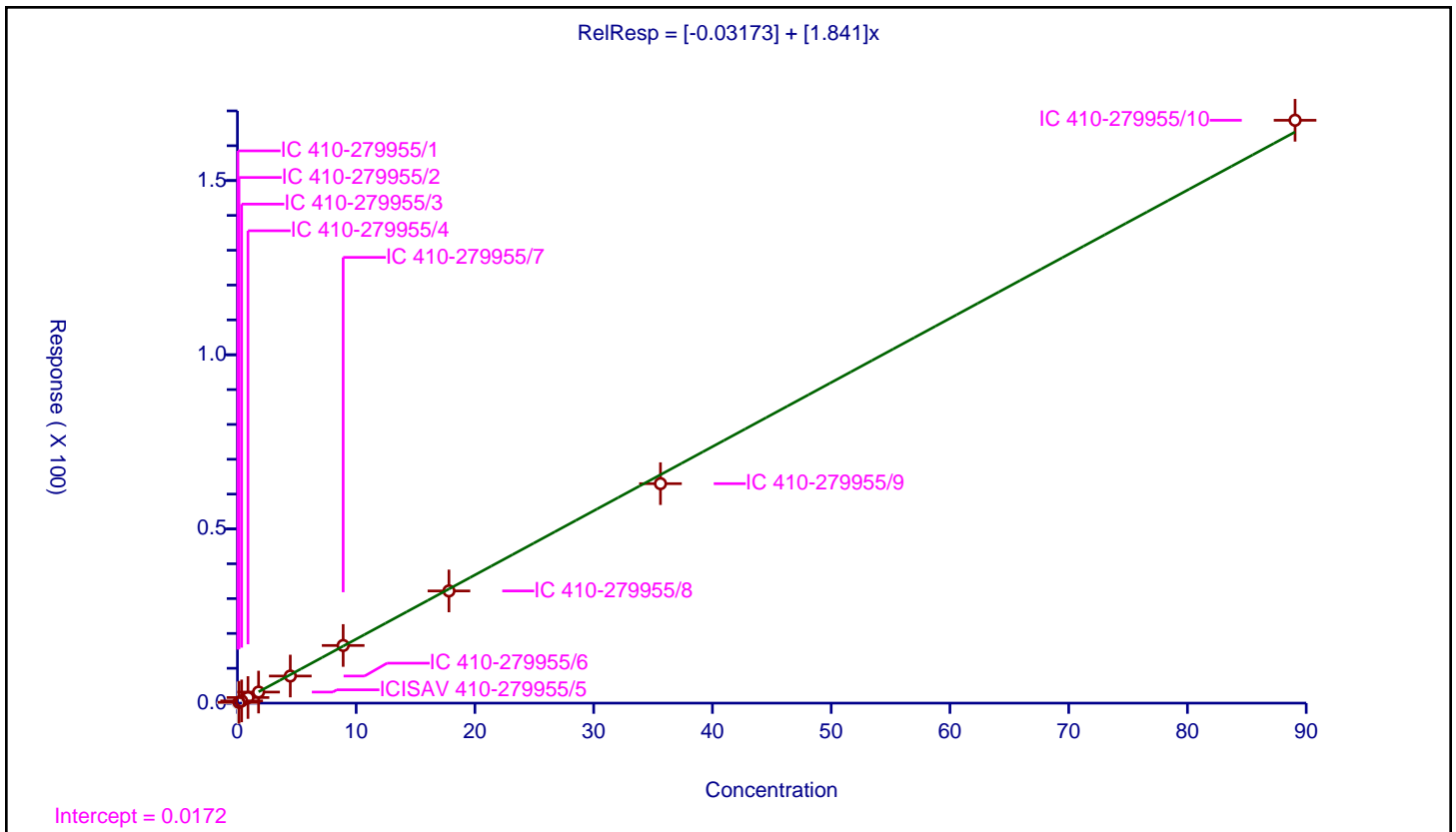
/ BFS_AB2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.03173
Slope:	1.841

Error Coefficients	
Standard Error:	10000000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.044531	0.079815	5.0	727811.0	1.79234	N
2	IC 410-279955/2	0.133593	0.232546	5.0	779180.0	1.740703	Y
3	IC 410-279955/3	0.356248	0.635781	5.0	708003.0	1.784659	Y
4	IC 410-279955/4	0.89062	1.608628	5.0	710074.0	1.806189	Y
5	ICISAV 410-279955/5	1.78124	3.179263	5.0	787758.0	1.78486	Y
6	IC 410-279955/6	4.4531	7.780267	5.0	767581.0	1.747157	Y
7	IC 410-279955/7	8.9062	16.550872	5.0	738449.0	1.858354	Y
8	IC 410-279955/8	17.8124	32.206456	5.0	730853.0	1.808092	Y
9	IC 410-279955/9	35.6248	62.997288	5.0	763934.0	1.768355	Y
10	IC 410-279955/10	89.062	167.308731	5.0	720374.0	1.878565	Y



Calibration

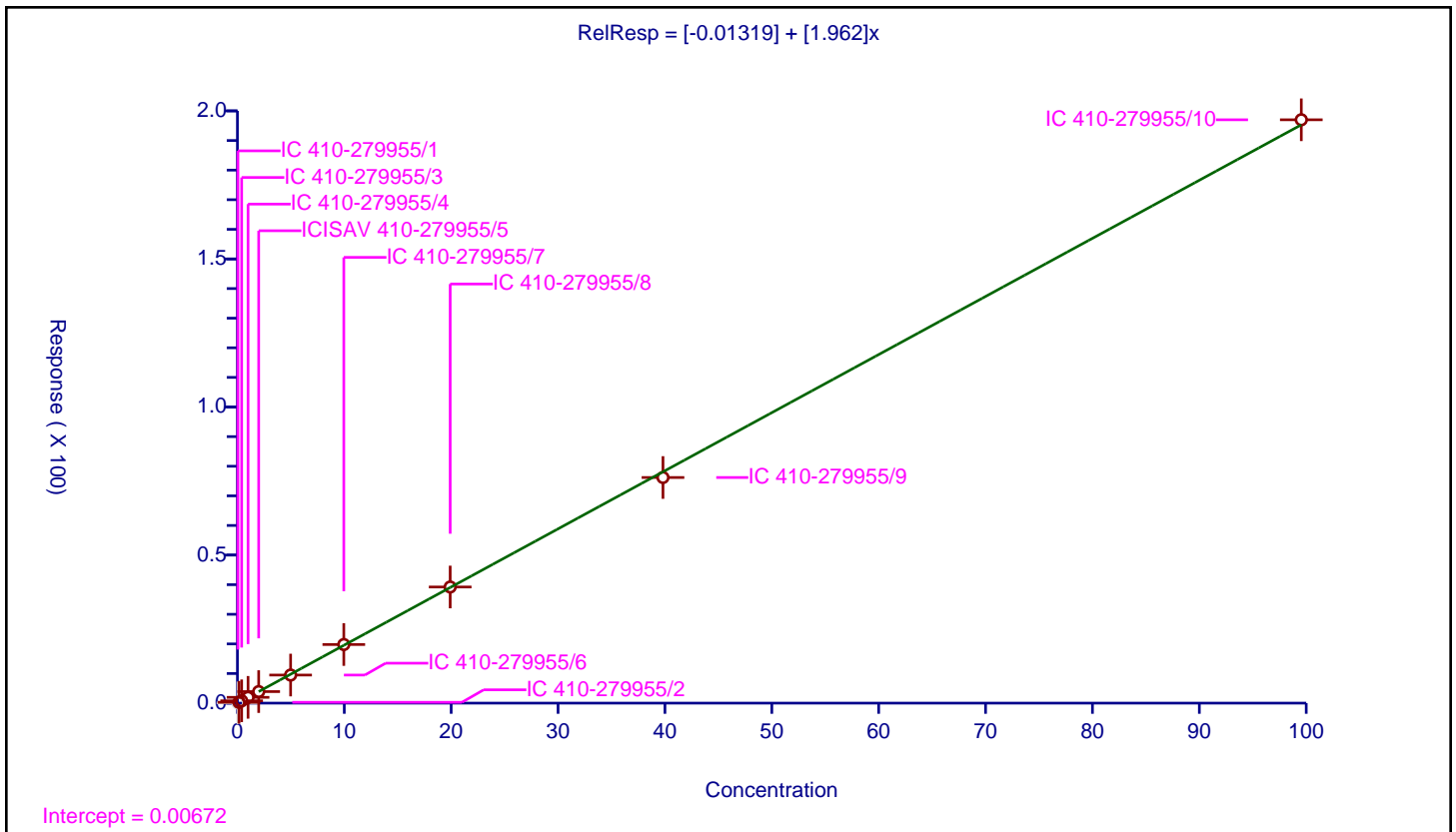
/ BFS_A3B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.01319
Slope:	1.962

Error Coefficients	
Standard Error:	11900000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.04977	0.099202	5.0	727811.0	1.99321	N
2	IC 410-279955/2	0.149309	0.279287	5.0	779180.0	1.870528	Y
3	IC 410-279955/3	0.398158	0.783175	5.0	708003.0	1.966995	Y
4	IC 410-279955/4	0.995395	1.952015	5.0	710074.0	1.961045	Y
5	ICISAV 410-279955/5	1.99079	3.896343	5.0	787758.0	1.957184	Y
6	IC 410-279955/6	4.976975	9.483833	5.0	767581.0	1.905542	Y
7	IC 410-279955/7	9.95395	19.79004	5.0	738449.0	1.988159	Y
8	IC 410-279955/8	19.9079	39.223503	5.0	730853.0	1.970248	Y
9	IC 410-279955/9	39.8158	76.194652	5.0	763934.0	1.913679	Y
10	IC 410-279955/10	99.5395	196.999788	5.0	720374.0	1.979112	Y



Calibration

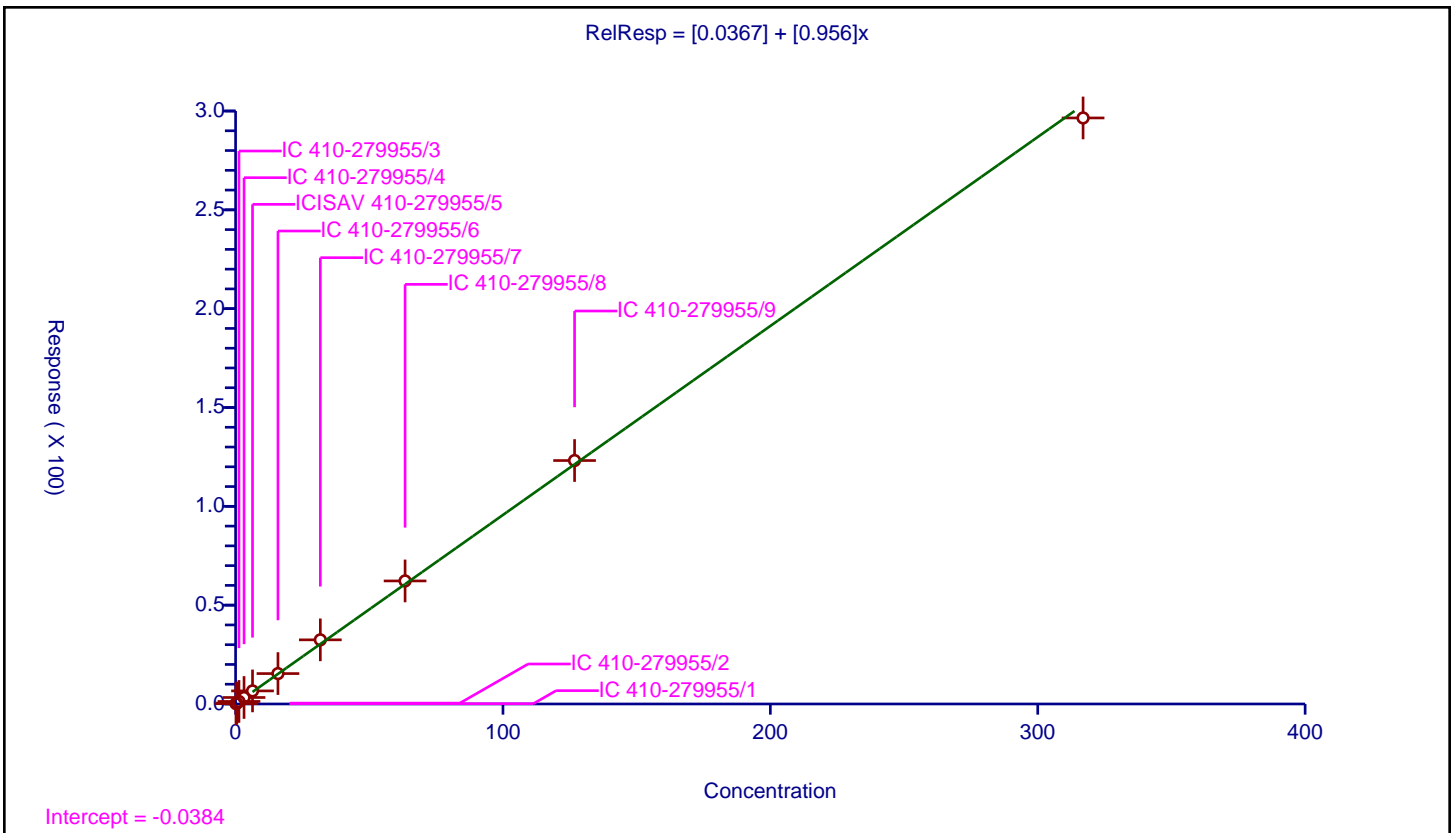
/ BFS_B3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0367
Slope:	0.956

Error Coefficients	
Standard Error:	16900000
Relative Standard Error:	9.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.158478	0.159897	5.0	727811.0	1.008957	Y
2	IC 410-279955/2	0.475433	0.442375	5.0	779180.0	0.930468	Y
3	IC 410-279955/3	1.267822	1.286993	5.0	708003.0	1.015121	Y
4	IC 410-279955/4	3.169555	3.284446	5.0	710074.0	1.036248	Y
5	ICISAV 410-279955/5	6.33911	6.623633	5.0	787758.0	1.044884	Y
6	IC 410-279955/6	15.847775	15.391509	5.0	767581.0	0.971209	Y
7	IC 410-279955/7	31.69555	32.454029	5.0	738449.0	1.02393	Y
8	IC 410-279955/8	63.3911	62.253661	5.0	730853.0	0.982057	Y
9	IC 410-279955/9	126.7822	123.170876	5.0	763934.0	0.971516	Y
10	IC 410-279955/10	316.9555	296.491767	5.0	720374.0	0.935437	Y



Calibration

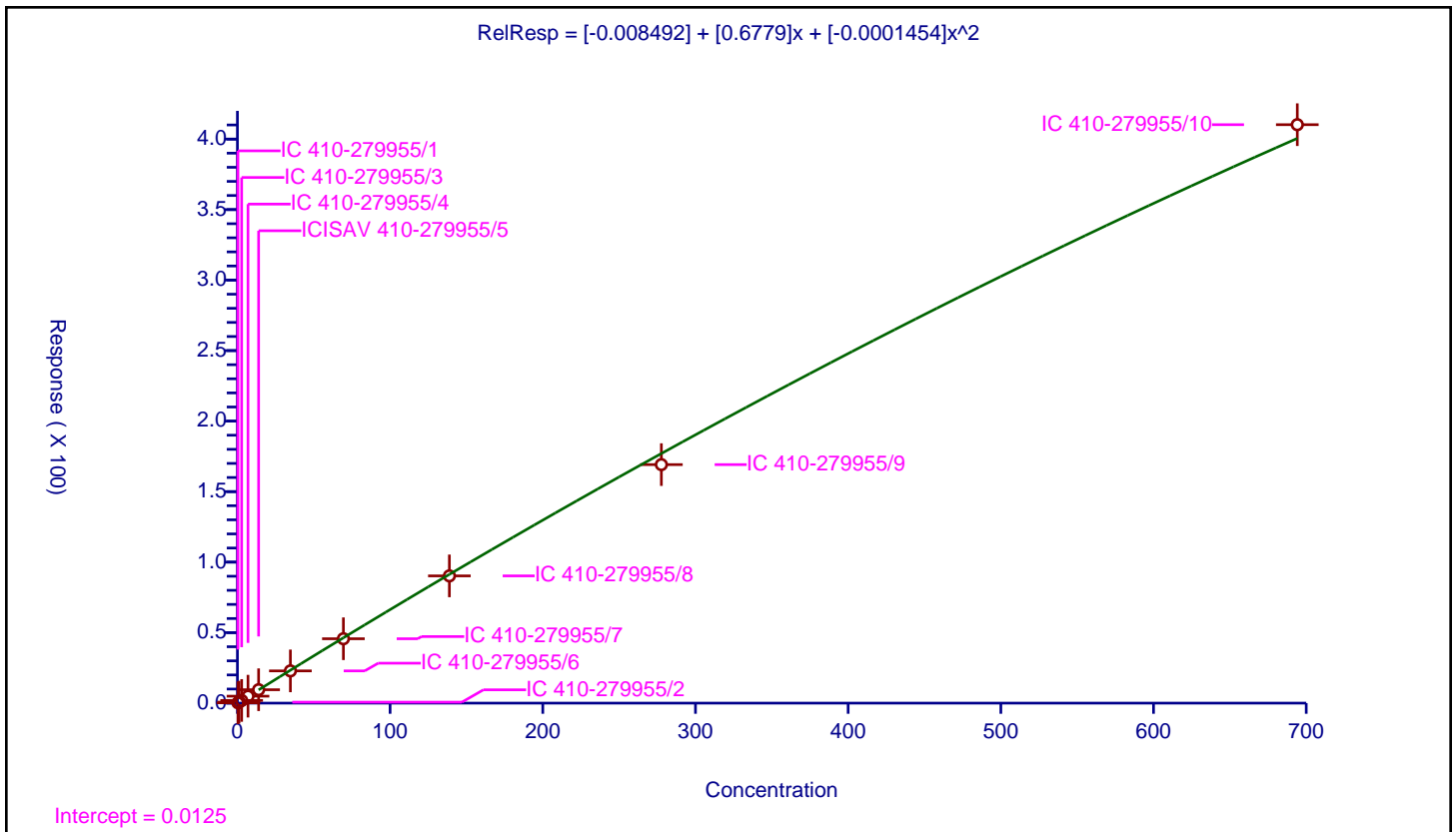
/ BFS_A2B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.008492
Slope:	0.6779
Second Order:	-0.0001454

Error Coefficients	
Standard Error:	25100000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.347079	0.226879	5.0	727811.0	0.653681	Y
2	IC 410-279955/2	1.041238	0.687351	5.0	779180.0	0.660129	Y
3	IC 410-279955/3	2.776634	1.89567	5.0	708003.0	0.682722	Y
4	IC 410-279955/4	6.941585	4.946815	5.0	710074.0	0.712635	Y
5	ICISAV 410-279955/5	13.88317	9.516628	5.0	787758.0	0.685479	Y
6	IC 410-279955/6	34.707925	22.855158	5.0	767581.0	0.6585	Y
7	IC 410-279955/7	69.41585	45.655699	5.0	738449.0	0.657713	Y
8	IC 410-279955/8	138.8317	90.244399	5.0	730853.0	0.650027	Y
9	IC 410-279955/9	277.6634	169.142923	5.0	763934.0	0.609165	Y
10	IC 410-279955/10	694.1585	410.210849	5.0	720374.0	0.590947	Y



Calibration

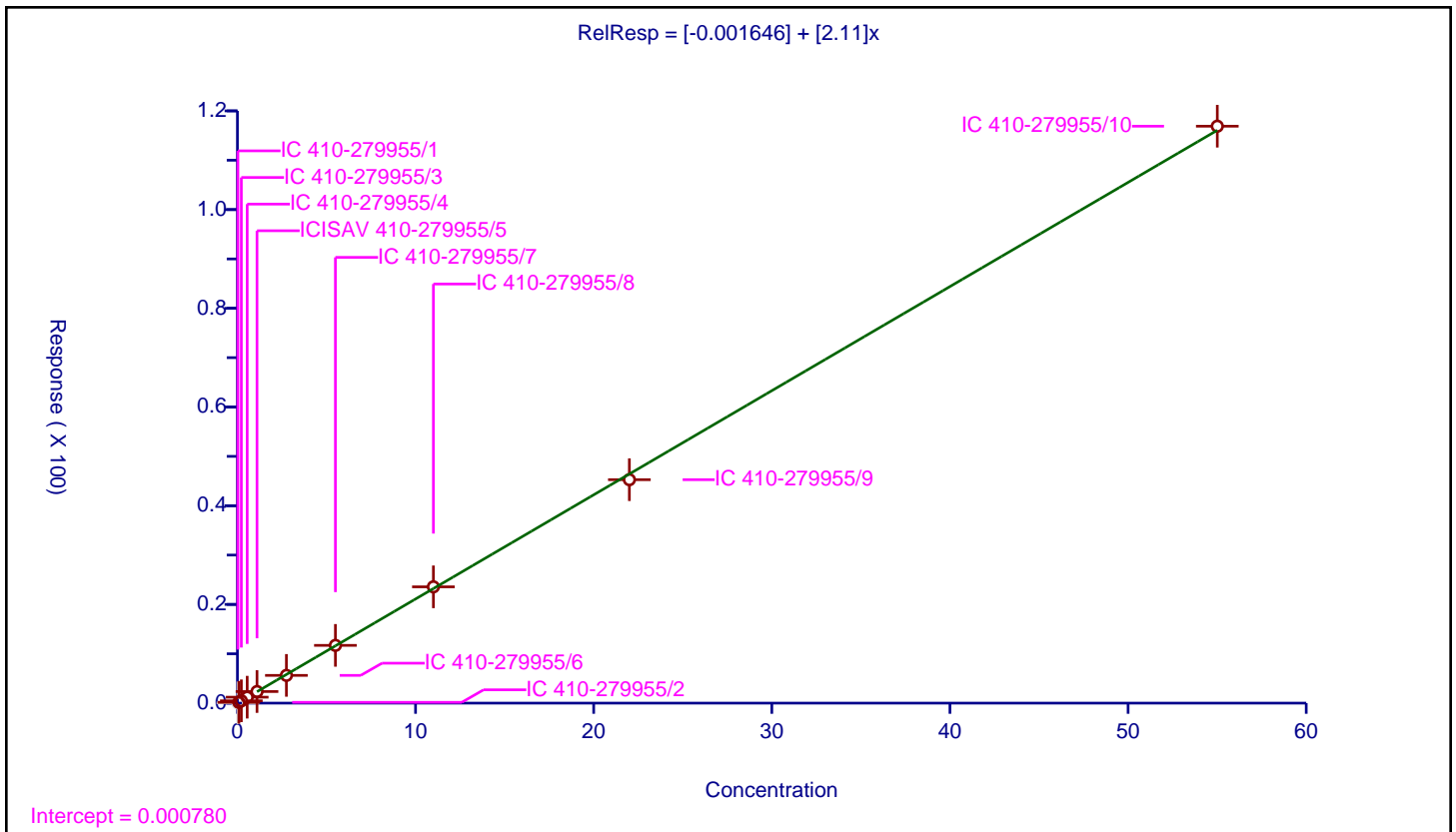
/ BFS_A4B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.001646
Slope:	2.11

Error Coefficients	
Standard Error:	7040000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.027505	0.061994	5.0	727811.0	2.253963	N
2	IC 410-279955/2	0.082514	0.164603	5.0	779180.0	1.994856	Y
3	IC 410-279955/3	0.220036	0.47122	5.0	708003.0	2.141558	Y
4	IC 410-279955/4	0.55009	1.205705	5.0	710074.0	2.191833	Y
5	ICISAV 410-279955/5	1.10018	2.349516	5.0	787758.0	2.135574	Y
6	IC 410-279955/6	2.75045	5.620293	5.0	767581.0	2.043408	Y
7	IC 410-279955/7	5.5009	11.701885	5.0	738449.0	2.127267	Y
8	IC 410-279955/8	11.0018	23.561434	5.0	730853.0	2.141598	Y
9	IC 410-279955/9	22.0036	45.274795	5.0	763934.0	2.057609	Y
10	IC 410-279955/10	55.009	116.896695	5.0	720374.0	2.125047	Y



Calibration

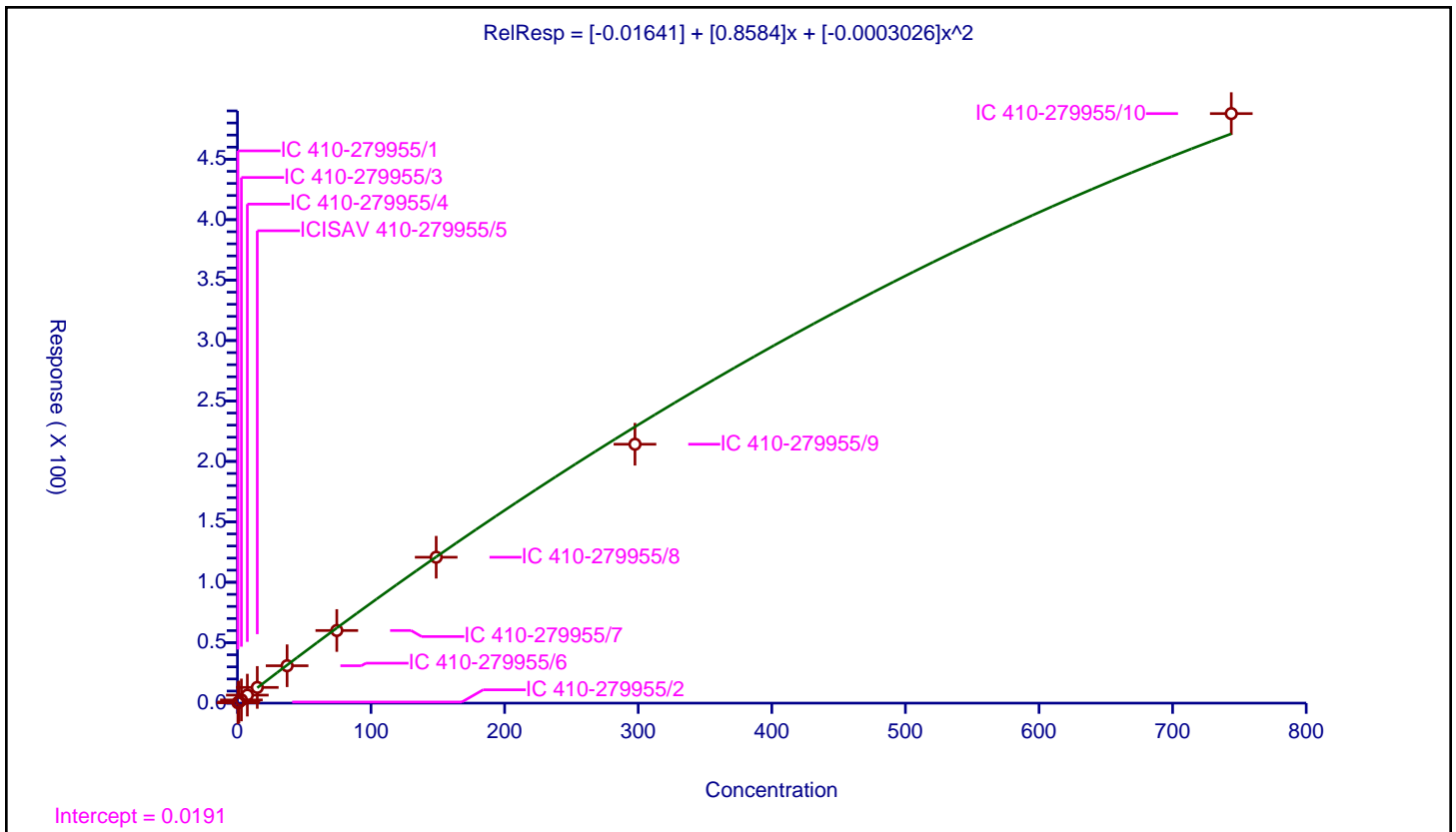
/ BFS_AB3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.01641
Slope:	0.8584
Second Order:	-0.0003026

Error Coefficients	
Standard Error:	30300000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.371964	0.303293	5.0	727811.0	0.815382	Y
2	IC 410-279955/2	1.115893	0.915116	5.0	779180.0	0.820075	Y
3	IC 410-279955/3	2.975714	2.641578	5.0	708003.0	0.887712	Y
4	IC 410-279955/4	7.439285	6.630358	5.0	710074.0	0.891263	Y
5	ICISAV 410-279955/5	14.87857	12.983734	5.0	787758.0	0.872647	Y
6	IC 410-279955/6	37.196425	30.934064	5.0	767581.0	0.831641	Y
7	IC 410-279955/7	74.39285	60.081827	5.0	738449.0	0.807629	Y
8	IC 410-279955/8	148.7857	120.692684	5.0	730853.0	0.811185	Y
9	IC 410-279955/9	297.5714	214.19764	5.0	763934.0	0.719819	Y
10	IC 410-279955/10	743.9285	487.753202	5.0	720374.0	0.655645	Y



Calibration

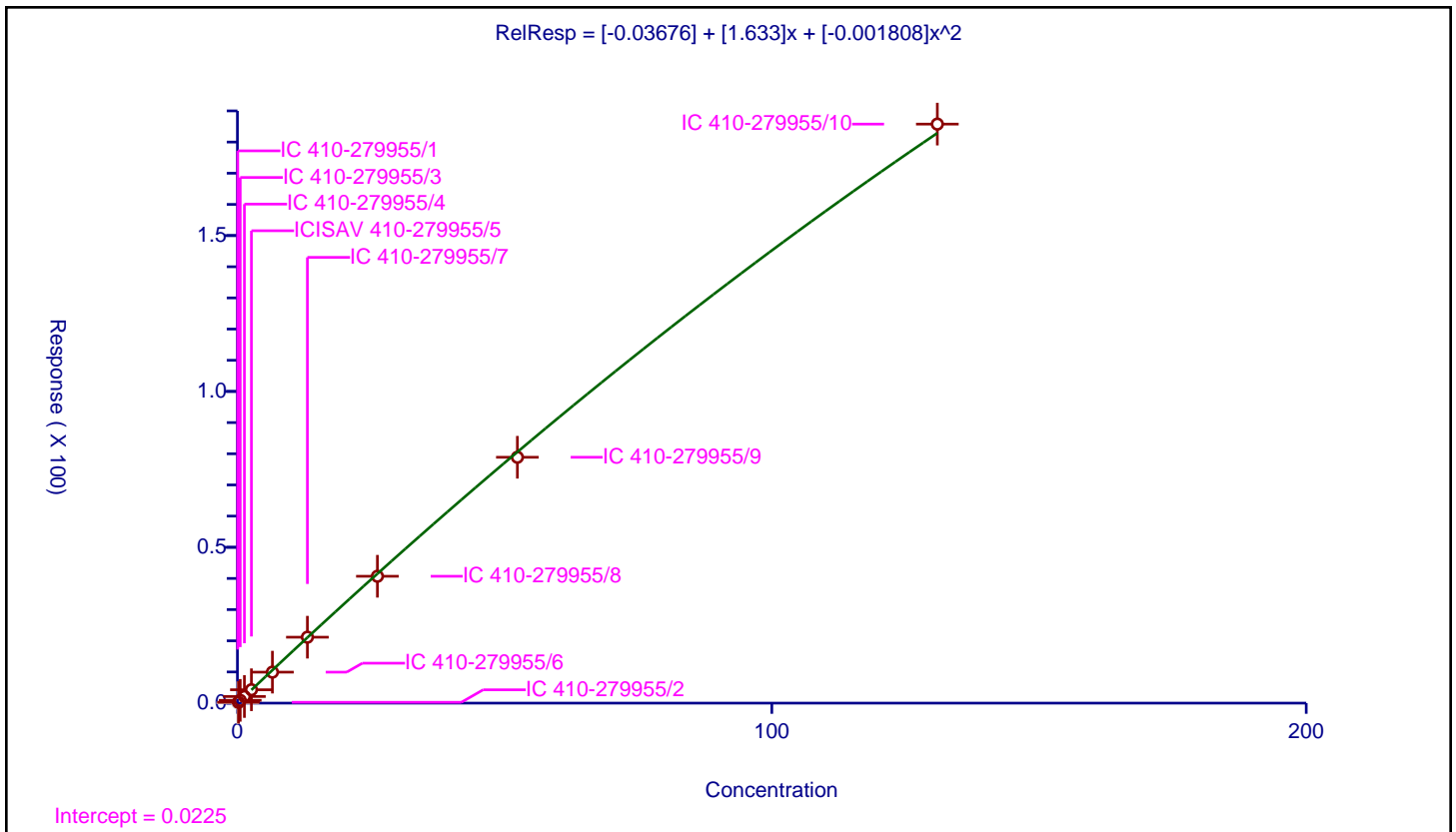
/ BFS_A3B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.03676
Slope:	1.633
Second Order:	-0.001808

Error Coefficients	
Standard Error:	12300000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.065487	0.10342	5.0	727811.0	1.579246	N
2	IC 410-279955/2	0.19646	0.272999	5.0	779180.0	1.389587	Y
3	IC 410-279955/3	0.523894	0.89537	5.0	708003.0	1.709068	Y
4	IC 410-279955/4	1.309735	2.122251	5.0	710074.0	1.620366	Y
5	ICISAV 410-279955/5	2.61947	4.28975	5.0	787758.0	1.63764	Y
6	IC 410-279955/6	6.548675	9.937831	5.0	767581.0	1.517533	Y
7	IC 410-279955/7	13.09735	21.154433	5.0	738449.0	1.615169	Y
8	IC 410-279955/8	26.1947	40.698636	5.0	730853.0	1.553697	Y
9	IC 410-279955/9	52.3894	78.881985	5.0	763934.0	1.505686	Y
10	IC 410-279955/10	130.9735	185.762028	5.0	720374.0	1.418318	Y



Calibration

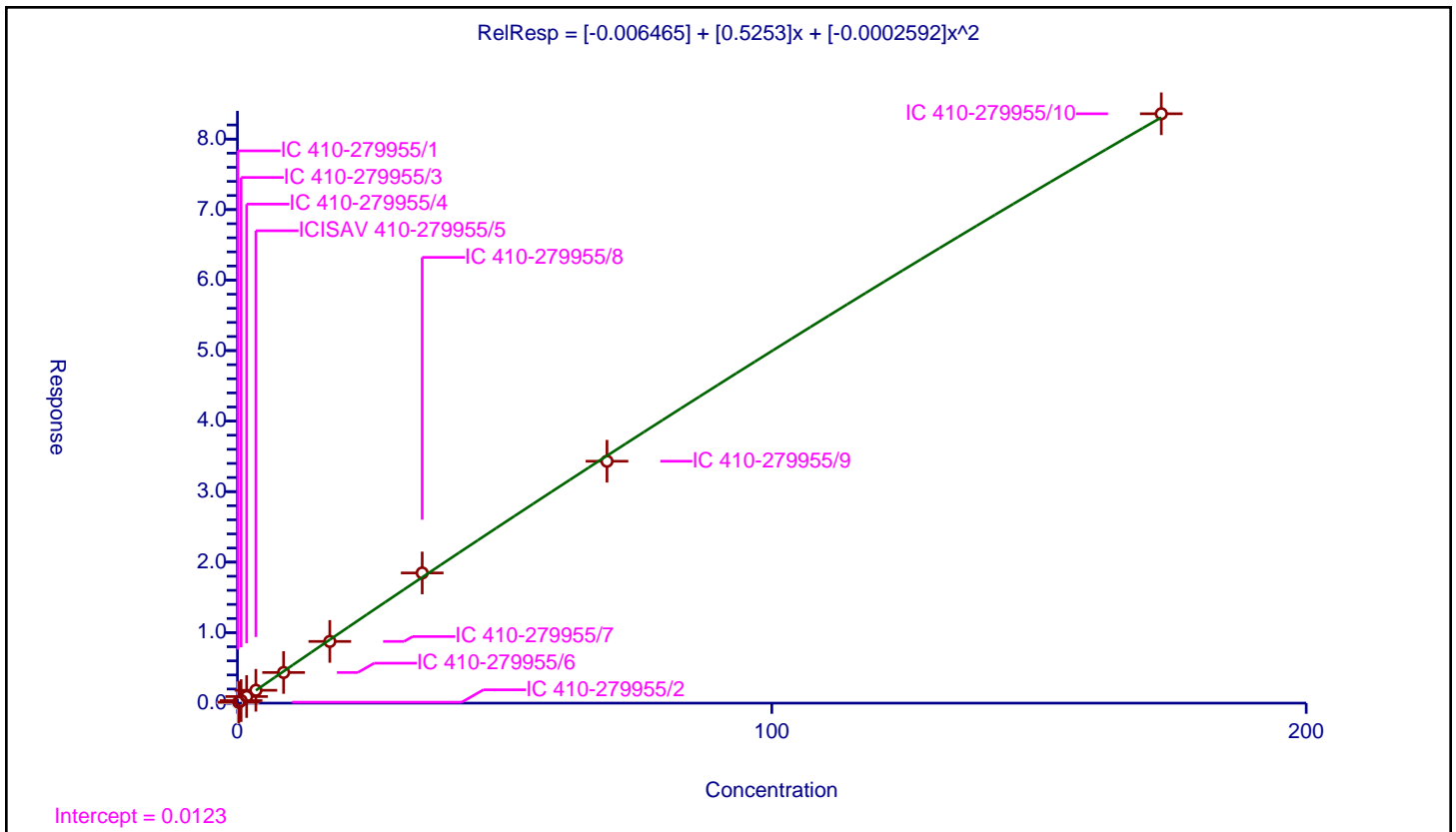
/ BFS_B4

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006465
Slope:	0.5253
Second Order:	-0.0002592

Error Coefficients	
Standard Error:	5510000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.086443	0.04688	5.0	727811.0	0.542329	N
2	IC 410-279955/2	0.259328	0.128674	5.0	779180.0	0.496182	Y
3	IC 410-279955/3	0.69154	0.359518	5.0	708003.0	0.519881	Y
4	IC 410-279955/4	1.72885	0.935614	5.0	710074.0	0.541177	Y
5	ICISAV 410-279955/5	3.4577	1.821194	5.0	787758.0	0.526707	Y
6	IC 410-279955/6	8.64425	4.347378	5.0	767581.0	0.502921	Y
7	IC 410-279955/7	17.2885	8.7503	5.0	738449.0	0.506134	Y
8	IC 410-279955/8	34.577	18.462584	5.0	730853.0	0.533956	Y
9	IC 410-279955/9	69.154	34.30996	5.0	763934.0	0.496138	Y
10	IC 410-279955/10	172.885	83.591405	5.0	720374.0	0.483509	Y



Calibration

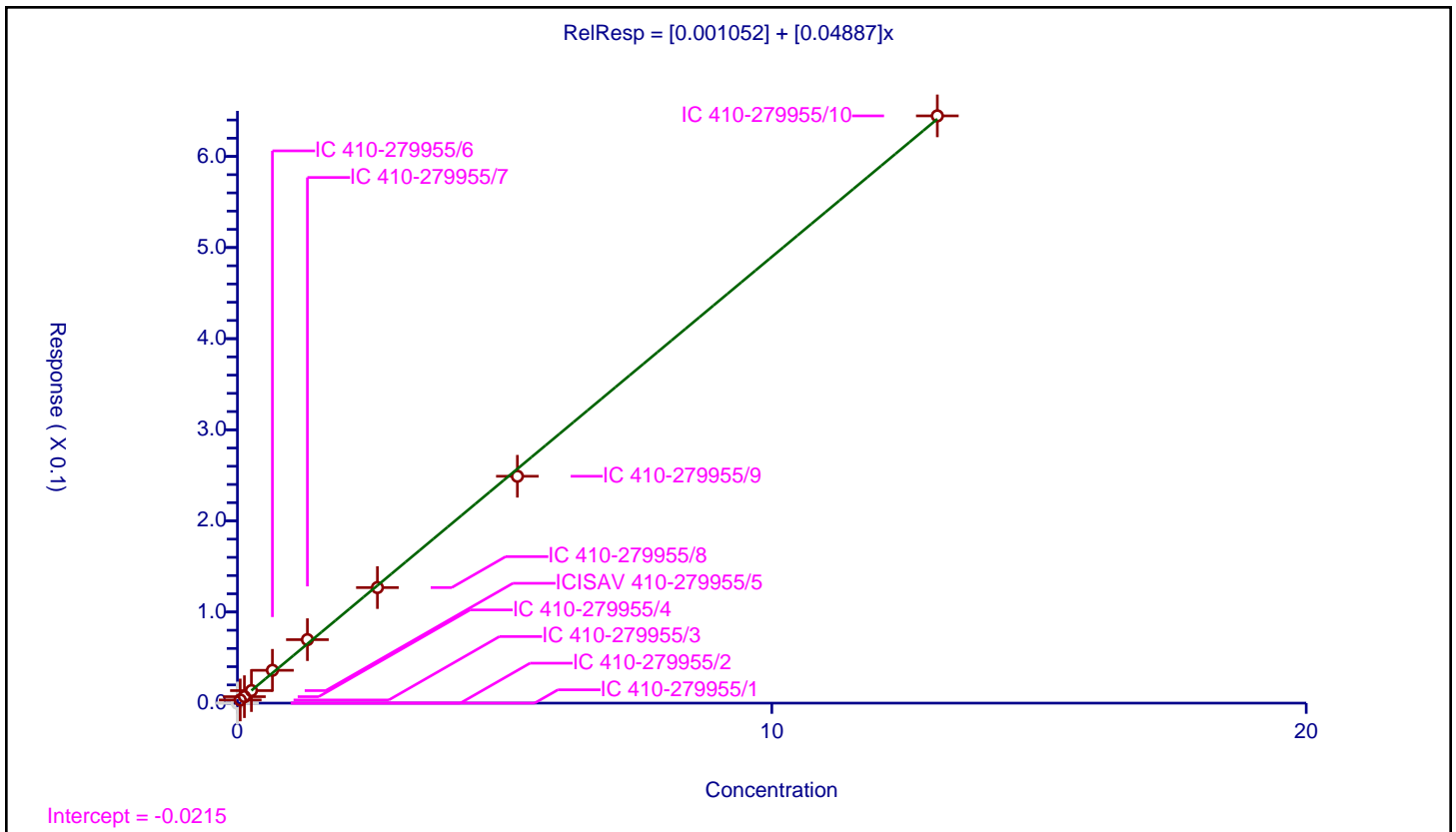
/ BFS_A2B3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.001052
Slope:	0.04887

Error Coefficients	
Standard Error:	41900
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279955/1	0.0	0.0	5.0	727811.0	NaN	N
2	IC 410-279955/2	0.0	0.0	5.0	779180.0	NaN	N
3	IC 410-279955/3	0.05239	0.003475	5.0	708003.0	0.066321	Y
4	IC 410-279955/4	0.130975	0.007084	5.0	710074.0	0.054085	Y
5	ICISAV 410-279955/5	0.26195	0.013742	5.0	787758.0	0.052459	Y
6	IC 410-279955/6	0.654875	0.036016	5.0	767581.0	0.054996	Y
7	IC 410-279955/7	1.30975	0.069666	5.0	738449.0	0.053191	Y
8	IC 410-279955/8	2.6195	0.126824	5.0	730853.0	0.048416	Y
9	IC 410-279955/9	5.239	0.249001	5.0	763934.0	0.047528	Y
10	IC 410-279955/10	13.0975	0.64454	5.0	720374.0	0.049211	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: ICV 410-279955/12 Calibration Date: 07/27/2022 14:10
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-25.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.600		3.89	4.45	-12.7	30.0
BFS_A3B	L1ID		1.771		4.50	4.98	-9.6	30.0
BFS_B3	L1ID		0.9203		15.2	15.8	-4.0	30.0
BFS_A2B2	Q2ID		0.6082		31.4	34.7	-9.6	30.0
BFS_A4B	L1ID		1.982		2.58	2.75	-6.1	30.0
BFS_AB3	Q2ID		0.7929		34.8	37.2	-6.4	30.0
BFS_A3B2	Q2ID		1.472		5.96	6.55	-8.9	30.0
BFS_B4	Q2ID		0.4831		7.99	8.64	-7.5	30.0
BFS_A2B3	L1ID		0.0362		0.463	0.655	-29.3	30.0
13C3 HFPO-DA	Ave	0.2241	0.2209		4.93	5.00	-1.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-25.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 27-Jul-2022 14:10:51 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:39:19 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 06:34:22

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.957	3.949	0.008	0.905	1024047	3.89	8251	
2 BFS_A3B	519.00 > 113.00	4.038	4.029	0.009	0.924	1266974	4.50	725	
3 BFS_B3	553.00 > 345.00	4.183	4.186	-0.003	0.957	2096669	15.2	793	
4 BFS_A2B2	569.00 > 229.00	4.296	4.286	0.010	0.983	3034604	31.4	1005	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.371	4.369	0.002	0.878	718790	4.93	98.6	2471
5 BFS_A4B	585.00 > 113.00	4.379	4.378	0.001	1.002	783618	2.58	844	
7 BFS_AB3	619.00 > 229.00	4.554	4.542	0.012	1.042	4239829	34.8	3329	
8 BFS_A3B2	635.00 > 113.00	4.647	4.645	0.002	1.063	1385730	5.96	1406	
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.094	600314	7.99	780	
10 BFS_A2B3	685.00 > 571.00	4.897	4.895	0.002	1.120	3405	0.4631	77.8	
* 11 13C2 PFOA	415.00 > 370.00	4.978	4.977	0.001		3253923	5.00	3850	

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_BFS_00006

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-25.d

Injection Date: 27-Jul-2022 14:10:51

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

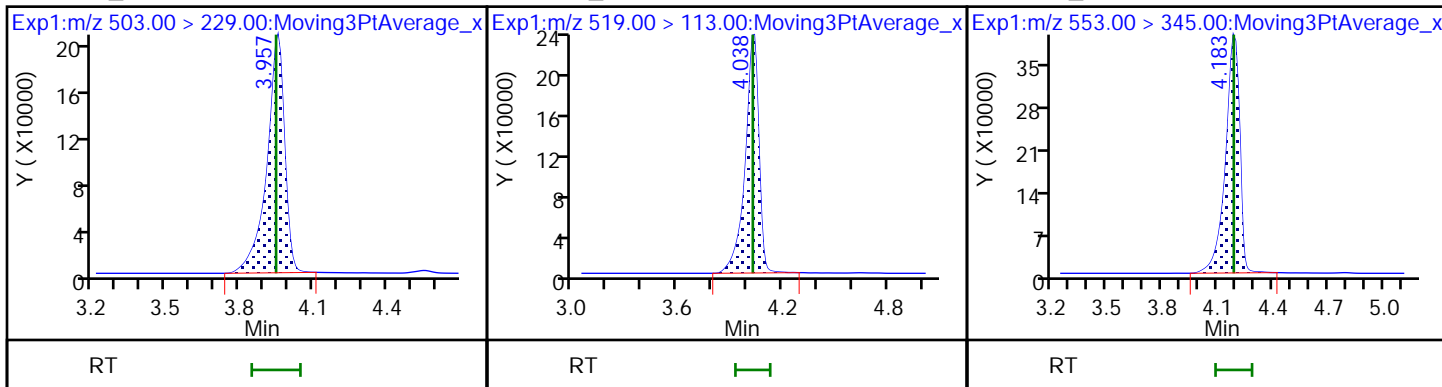
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

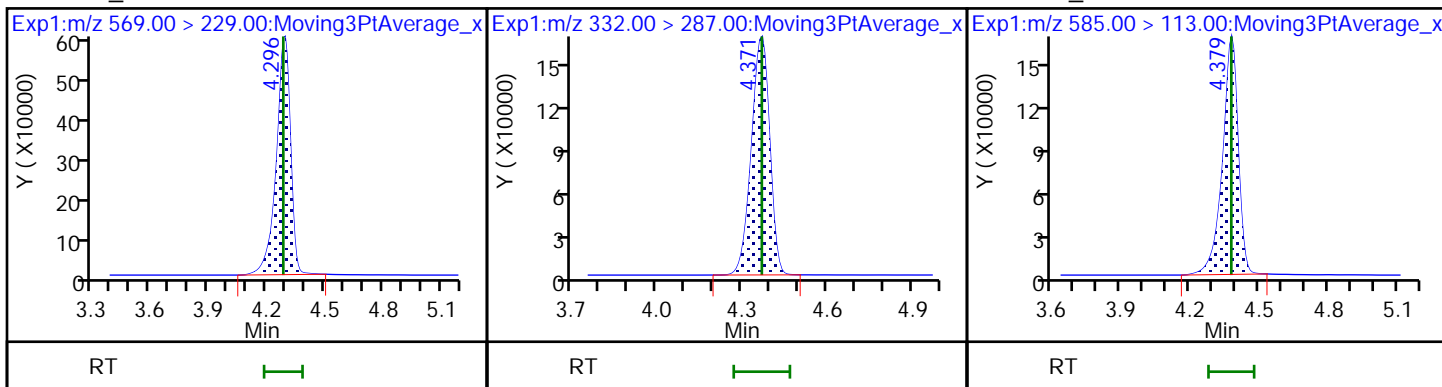
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

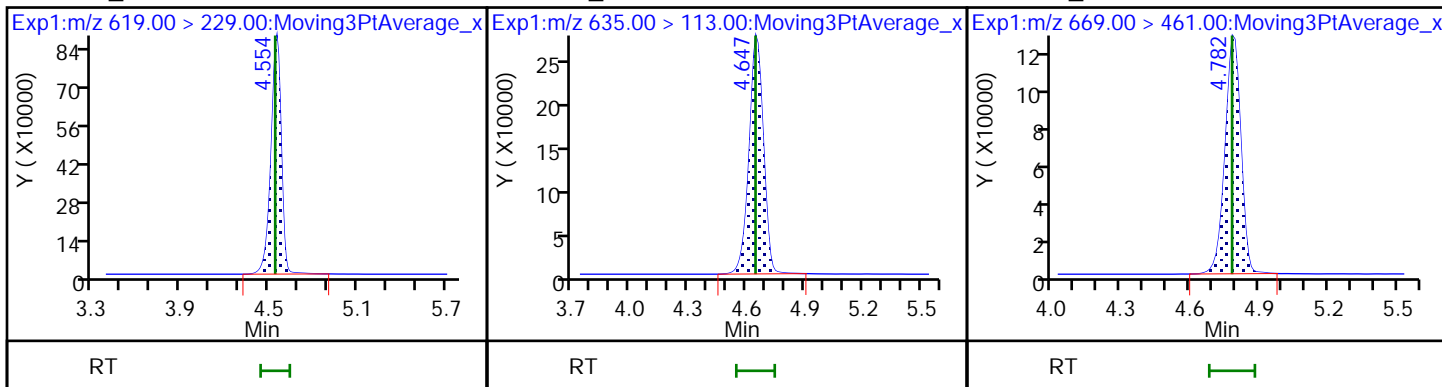
5 BFS_A4B



7 BFS_AB3

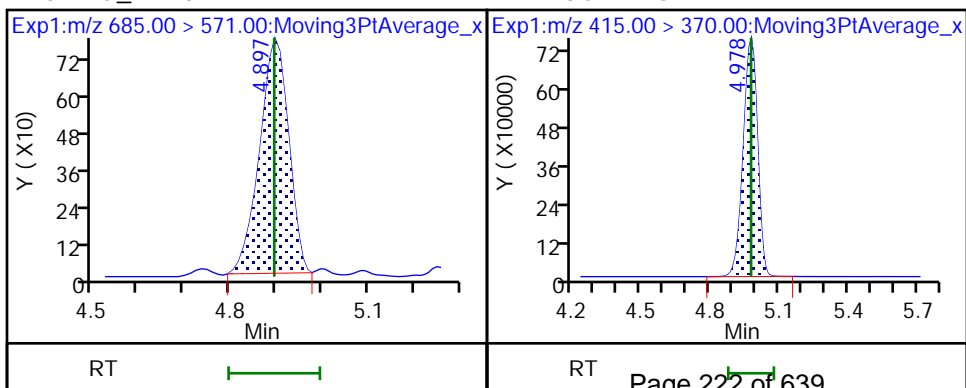
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-280078/1 Calibration Date: 07/27/2022 15:02
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-27.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.800		0.0608	0.0445	36.5	50.0
BFS_A3B	L1ID		1.784		0.0520	0.0498	4.4	50.0
BFS_B3	L1ID		1.005		0.128	0.158	-19.1	50.0
BFS_A2B2	Q2ID		0.6434		0.342	0.347	-1.5	50.0
BFS_A4B	L1ID		2.149		0.0288	0.0275	4.7	50.0
BFS_AB3	Q2ID		0.8290		0.378	0.372	1.7	50.0
BFS_A3B2	Q2ID		1.517		0.0833	0.0655	27.3	50.0
BFS_B4	Q2ID		0.4987		0.0944	0.0864	9.2	50.0
BFS_A2B3	L1ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2241	0.2380		5.31	5.00	6.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-27.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 27-Jul-2022 15:02:30 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:05:23 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:01:21

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.949	3.949	0.0	0.905	12433	0.0608	136	327	M
2 BFS_A3B									M
519.00 > 113.00	4.019	4.029	-0.010	0.922	13773	0.0520	104	82.0	M
3 BFS_B3									M
553.00 > 345.00	4.173	4.186	-0.013	0.957	24704	0.1282	80.9	52.1	M
4 BFS_A2B2									
569.00 > 229.00	4.286	4.286	0.0	0.983	34637	0.3419	98.5	340	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.361	4.369	-0.008	0.878	775557	5.31	106	2828	
5 BFS_A4B									M
585.00 > 113.00	4.370	4.378	-0.008	1.002	9168	0.0288	105	89.5	M
7 BFS_AB3									
619.00 > 229.00	4.542	4.542	0.0	1.041	47828	0.3784	102	527	
8 BFS_A3B2									
635.00 > 113.00	4.646	4.645	0.001	1.065	15411	0.0833	127	103	
9 BFS_B4									
669.00 > 461.00	4.781	4.781	0.0	1.096	6687	0.0944	109	17.4	
* 11 13C2 PFOA									
415.00 > 370.00	4.966	4.977	-0.011		3258656	5.00		3888	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-27.d

Injection Date: 27-Jul-2022 15:02:30

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

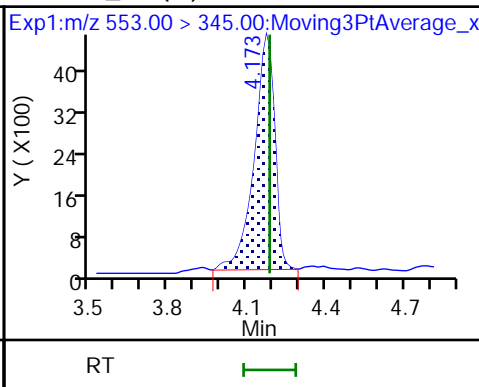
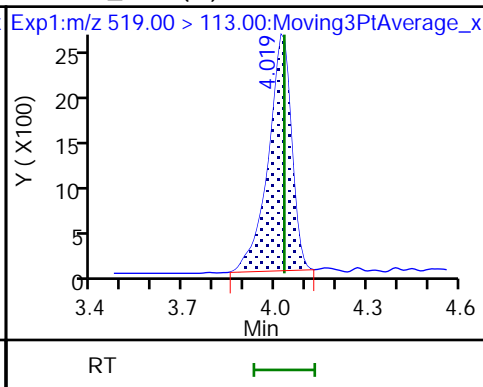
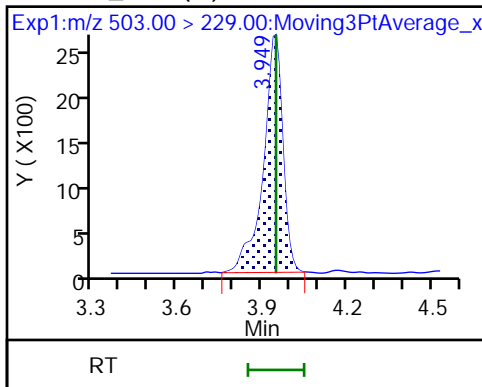
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

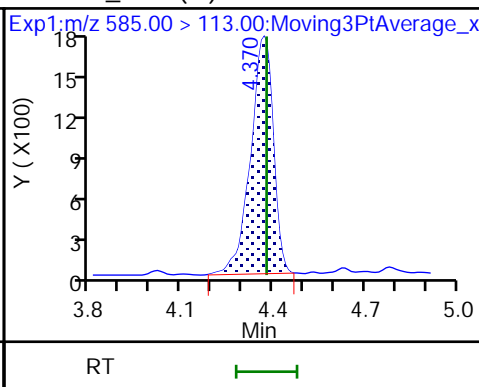
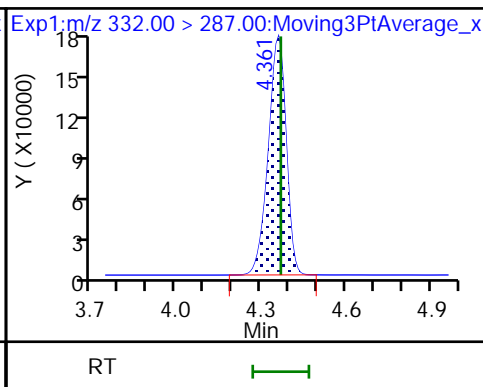
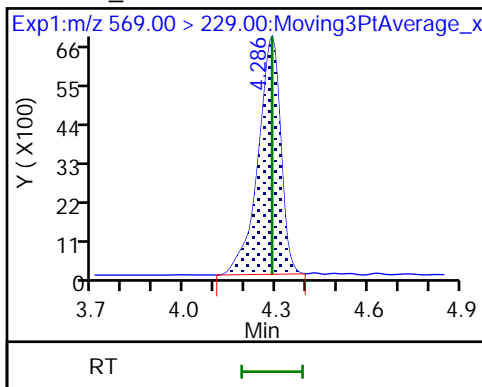
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

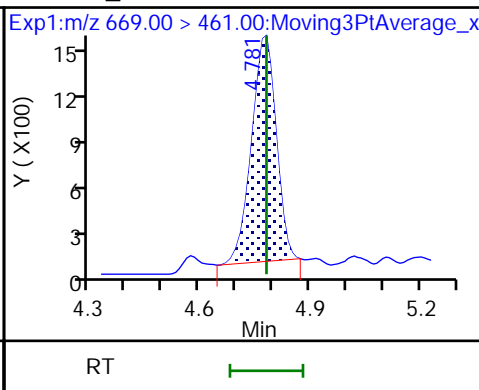
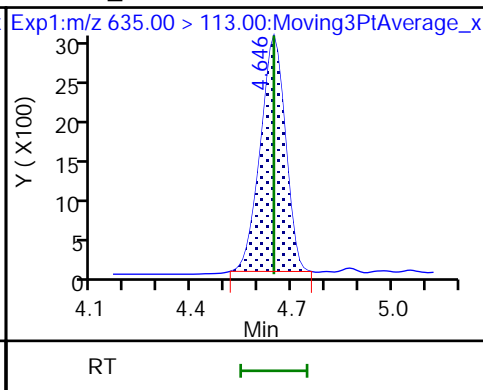
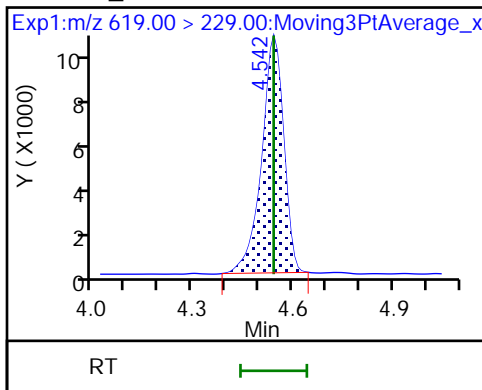
5 BFS_A4B (M)



7 BFS_AB3

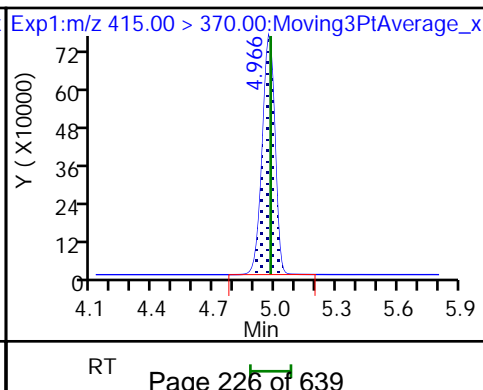
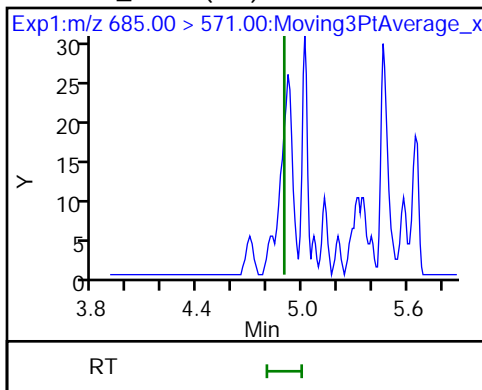
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

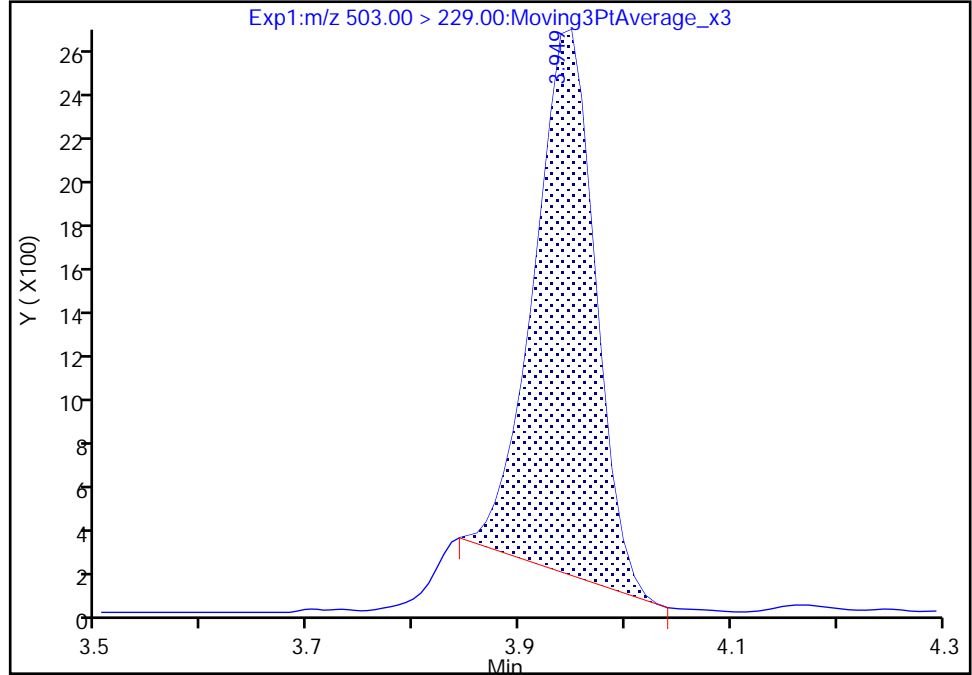
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Injection Date: 27-Jul-2022 15:02:30 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

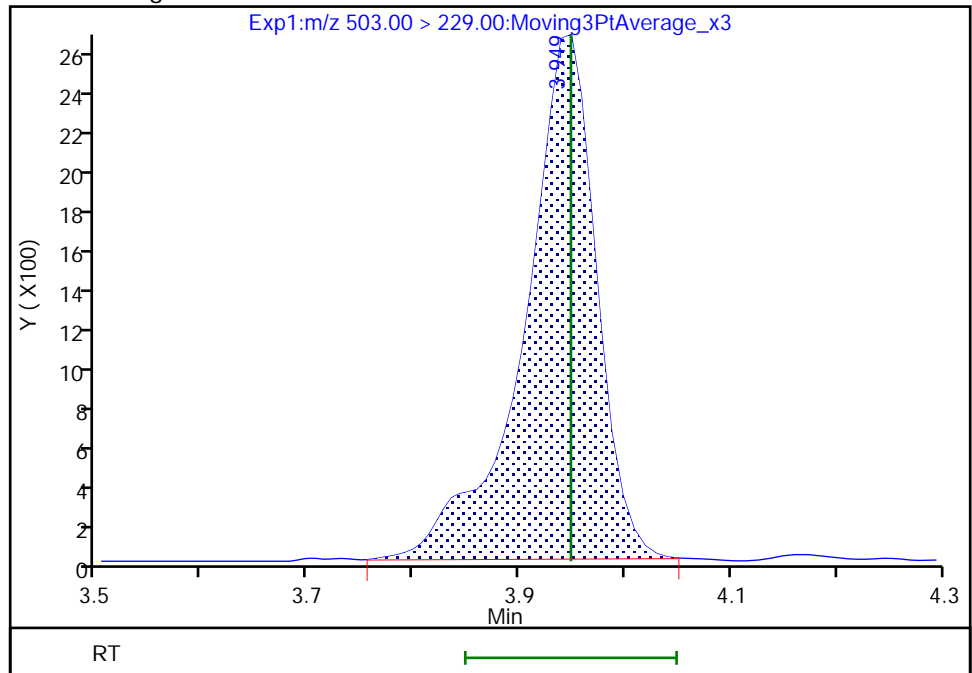
RT: 3.95
Area: 9884
Amount: 0.051842
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 12433
Amount: 0.060767
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 07:01:02
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

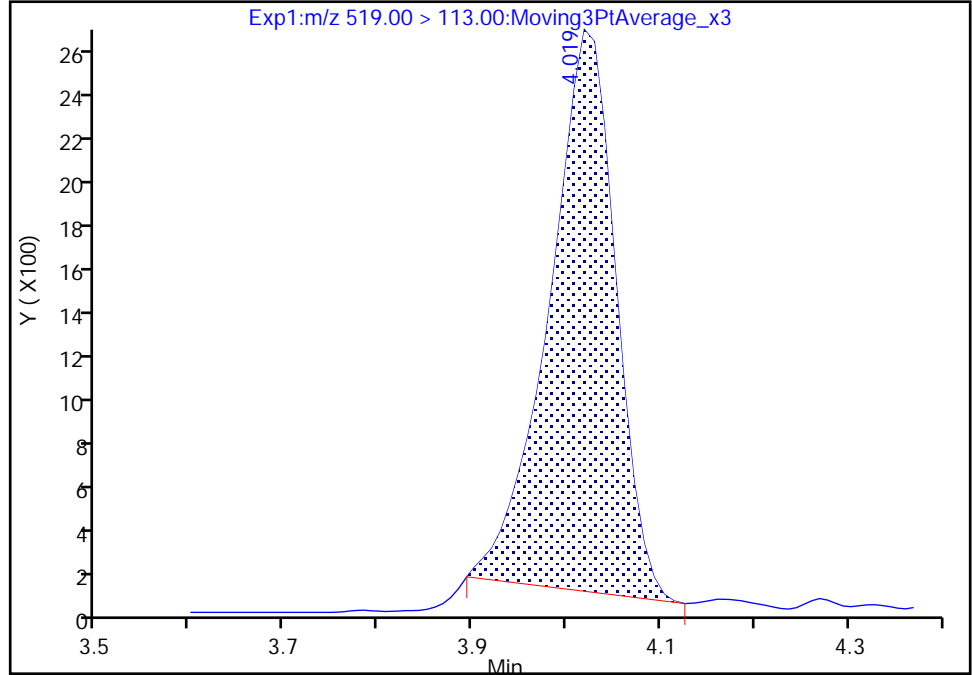
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Injection Date: 27-Jul-2022 15:02:30 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

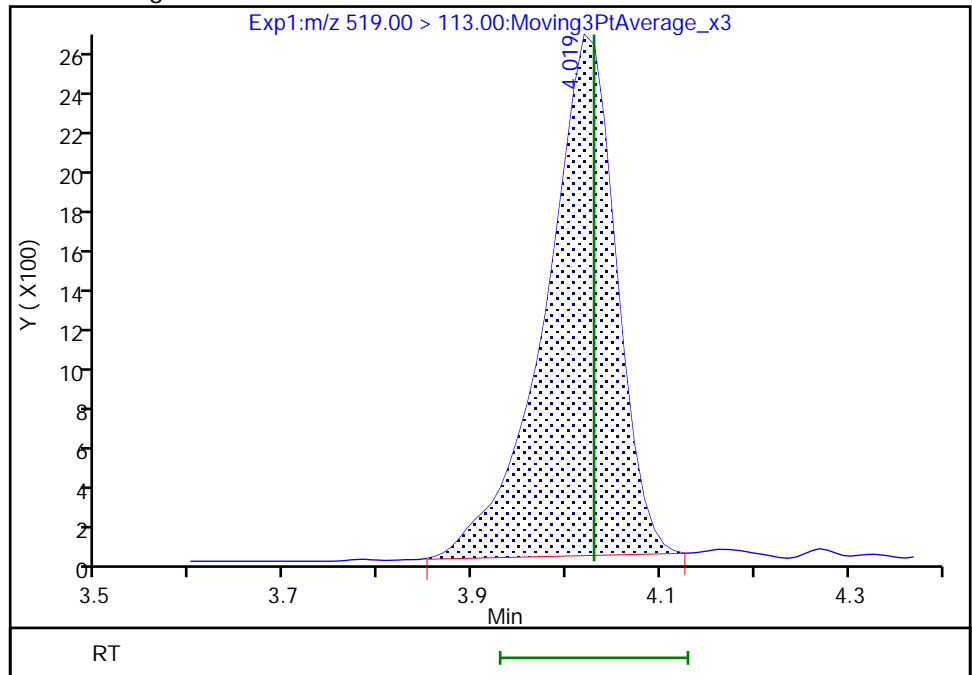
RT: 4.02
Area: 12610
Amount: 0.048158
Amount Units: ng/ml

Processing Integration Results



RT: 4.02
Area: 13773
Amount: 0.051979
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 07:01:06
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

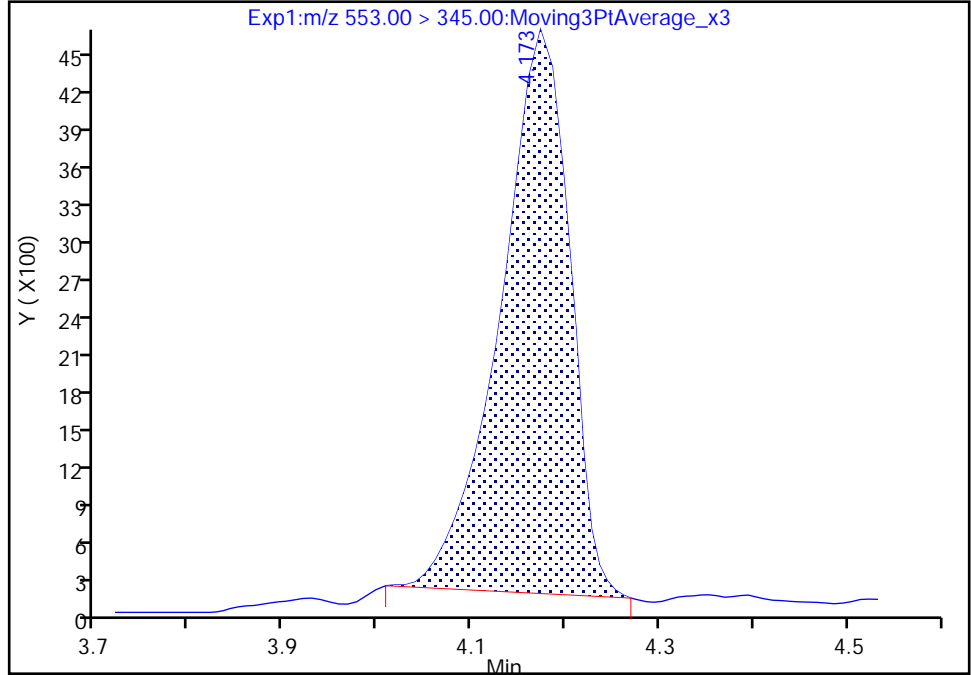
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Injection Date: 27-Jul-2022 15:02:30 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

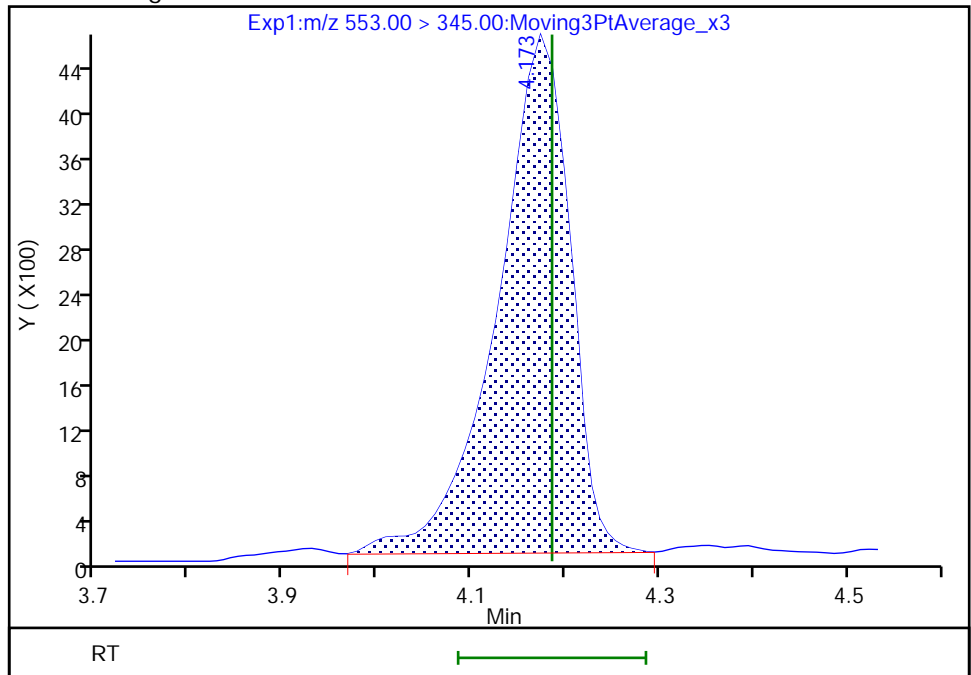
RT: 4.17
Area: 23044
Amount: 0.117012
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 24704
Amount: 0.128206
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

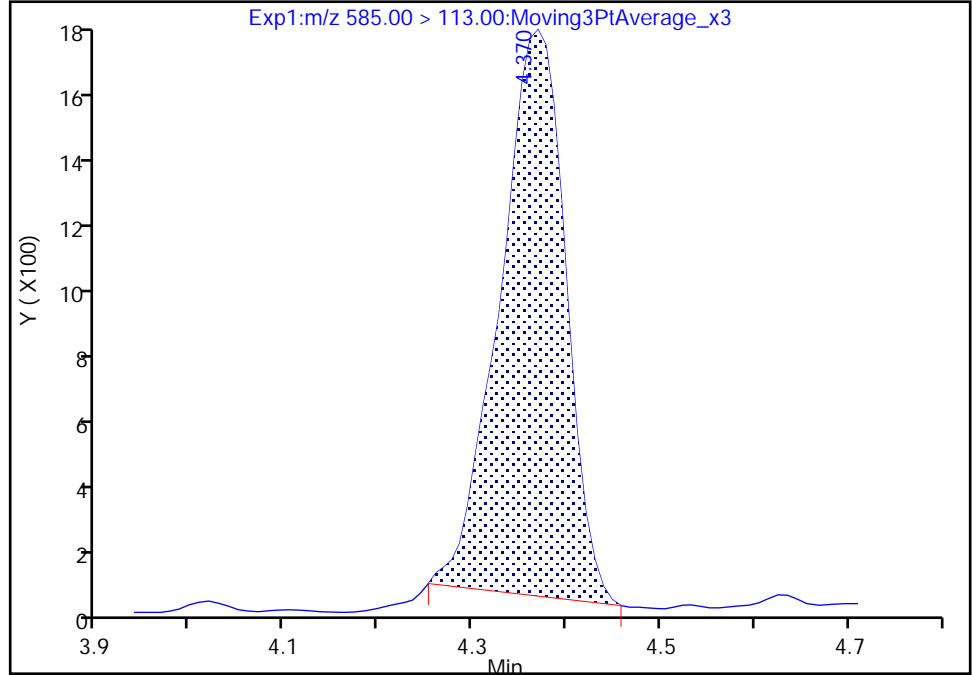
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Injection Date: 27-Jul-2022 15:02:30 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

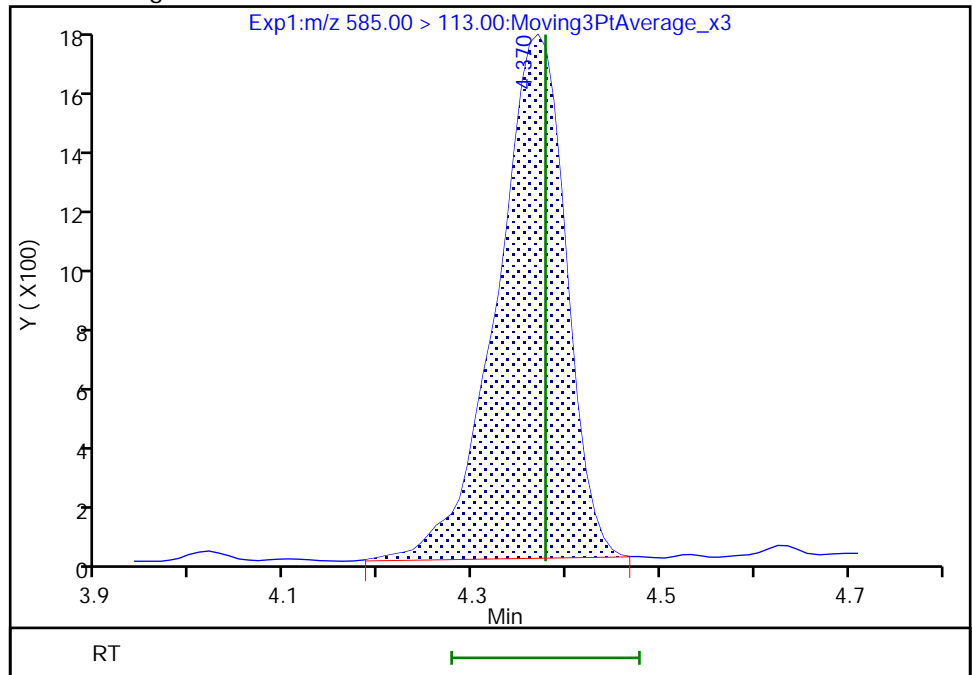
RT: 4.37
Area: 8492
Amount: 0.026724
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 9168
Amount: 0.028789
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 07:01:16
Audit Action: Manually Integrated

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280078/11 Calibration Date: 07/27/2022 17:08
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-37.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.778		4.32	4.45	-3.0	30.0
BFS_A3B	L1ID		1.963		4.99	4.98	0.2	30.0
BFS_B3	L1ID		1.031		17.1	15.8	7.7	30.0
BFS_A2B2	Q2ID		0.6845		35.3	34.7	1.8	30.0
BFS_A4B	L1ID		2.148		2.80	2.75	1.8	30.0
BFS_AB3	Q2ID		0.8542		37.5	37.2	0.9	30.0
BFS_A3B2	Q2ID		1.630		6.61	6.55	0.9	30.0
BFS_B4	Q2ID		0.5194		8.60	8.64	-0.6	30.0
BFS_A2B3	L1ID		0.0495		0.641	0.655	-2.0	30.0
13C3 HFPO-DA	Ave	0.2241	0.2208		4.93	5.00	-1.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-37.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Jul-2022 17:08:28 ALS Bottle#: 7 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:05:30 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:01:40

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.949	0.002	0.906	1170433	4.32	97.0	12045
2 BFS_A3B	519.00 > 113.00	4.031	4.029	0.002	0.924	1444596	4.99	100	741
3 BFS_B3	553.00 > 345.00	4.188	4.186	0.002	0.960	2416585	17.1	108	951
4 BFS_A2B2	569.00 > 229.00	4.288	4.286	0.002	0.983	3512176	35.3	102	1635
D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.369	-0.006	0.878	739157	4.93	98.5	2524
5 BFS_A4B	585.00 > 113.00	4.371	4.378	-0.007	1.002	873406	2.80	102	1029
7 BFS_AB3	619.00 > 229.00	4.544	4.542	0.002	1.041	4697301	37.5	101	3978
8 BFS_A3B2	635.00 > 113.00	4.647	4.645	0.002	1.065	1578055	6.61	101	1540
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.096	663713	8.60	99.4	882
10 BFS_A2B3	685.00 > 571.00	4.885	4.895	-0.010	1.120	4790	0.6415	98.0	119
* 11 13C2 PFOA	415.00 > 370.00	4.967	4.977	-0.010		3347833	5.00		3997

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File:

\\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-37.d

Injection Date:

27-Jul-2022 17:08:28

Instrument ID:

30733

Lims ID:

CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 11

Injection Vol:

10.0 ul

Dil. Factor:

1.0000

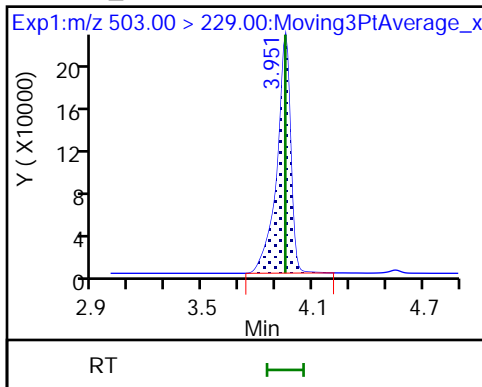
Method:

BFS_IDA_30733

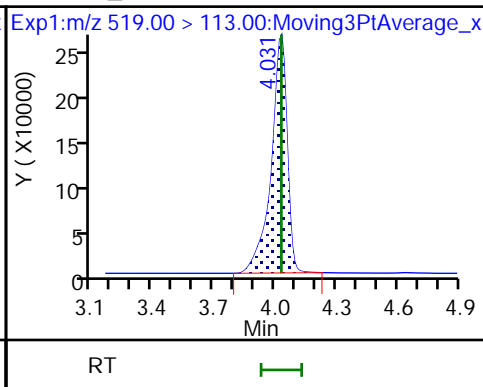
Limit Group:

LC - BFS_IDA

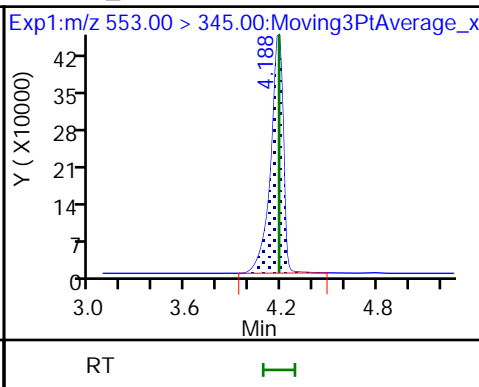
1 BFS_AB2



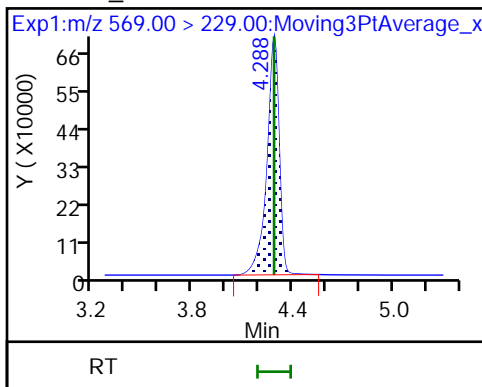
2 BFS_A3B



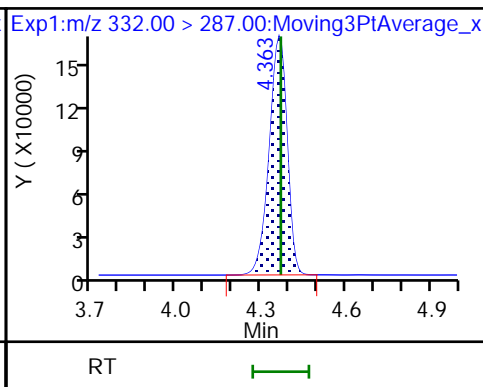
3 BFS_B3



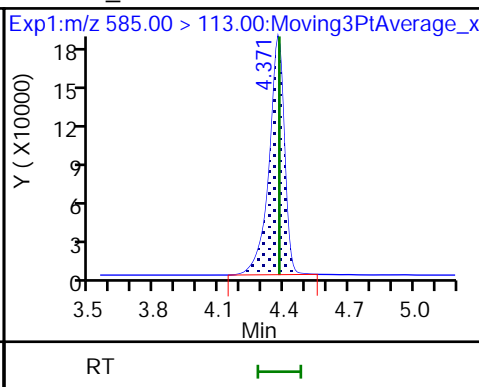
4 BFS_A2B2



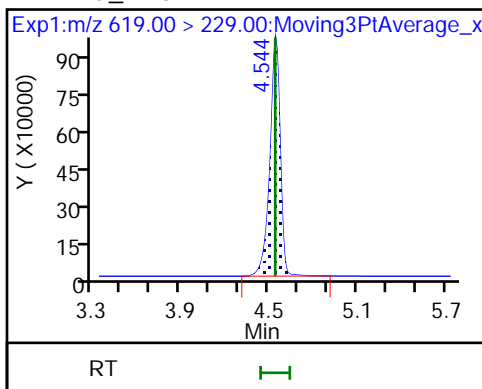
D 6 13C3 HFPO-DA



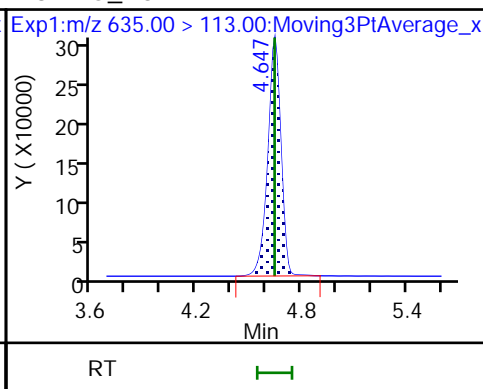
5 BFS_A4B



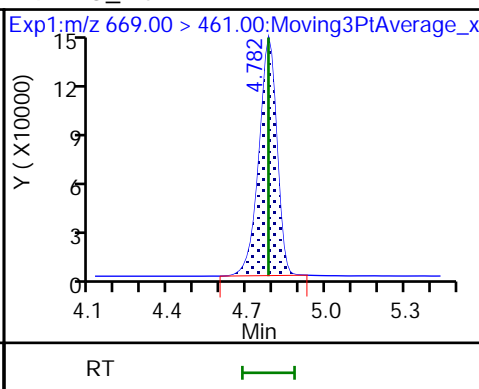
7 BFS_AB3



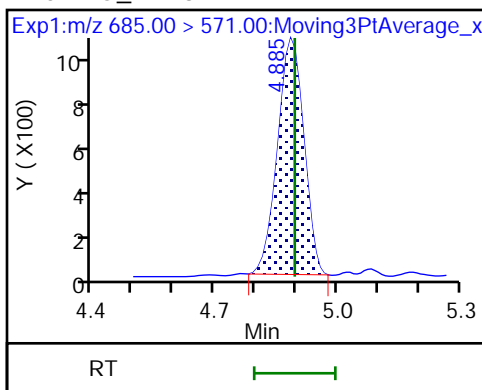
8 BFS_A3B2



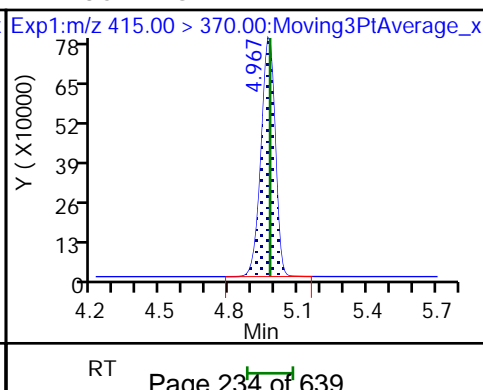
9 BFS_B4



10 BFS_A2B3



* 11 13C2 PFOA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280078/24 Calibration Date: 07/27/2022 19:52
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-50.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.822		8.83	8.91	-0.8	30.0
BFS_A3B	L1ID		1.967		9.98	9.95	0.3	30.0
BFS_B3	L1ID		1.024		33.9	31.7	7.0	30.0
BFS_A2B2	Q2ID		0.6741		70.1	69.4	1.0	30.0
BFS_A4B	L1ID		2.139		5.58	5.50	1.4	30.0
BFS_AB3	Q2ID		0.8408		74.9	74.4	0.6	30.0
BFS_A3B2	Q2ID		1.581		12.9	13.1	-1.6	30.0
BFS_B4	Q2ID		0.5073		16.8	17.3	-2.5	30.0
BFS_A2B3	L1ID		0.0516		1.36	1.31	3.9	30.0
13C3 HFPO-DA	Ave	0.2241	0.2220		4.95	5.00	-0.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-50.d
 Lims ID: CCV 4_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Jul-2022 19:52:12 ALS Bottle#: 8 Worklist Smp#: 24
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-024
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:01:53

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.945	3.949	-0.004	0.905	2380384	8.83	99.2	15428
2 BFS_A3B	519.00 > 113.00	4.026	4.029	-0.003	0.923	2871120	9.98	100	780
3 BFS_B3	553.00 > 345.00	4.181	4.186	-0.005	0.959	4759990	33.9	107	993
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.983	6863024	70.1	101	4046
D 6 13C3 HFPO-DA	332.00 > 287.00	4.361	4.369	-0.008	0.878	733328	4.95	99.1	2611
5 BFS_A4B	585.00 > 113.00	4.369	4.378	-0.009	1.002	1725819	5.58	101	1011
7 BFS_AB3	619.00 > 229.00	4.541	4.542	-0.001	1.041	9173759	74.9	101	3322
8 BFS_A3B2	635.00 > 113.00	4.645	4.645	0.0	1.065	3036570	12.9	98.4	1760
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.096	1286343	16.8	97.5	1309
10 BFS_A2B3	685.00 > 571.00	4.895	4.895	0.0	1.123	9910	1.36	104	179 M
* 11 13C2 PFOA	415.00 > 370.00	4.967	4.977	-0.010		3303726	5.00		2783

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-50.d

Injection Date: 27-Jul-2022 19:52:12

Instrument ID: 30733

Lims ID: CCV 4_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 24

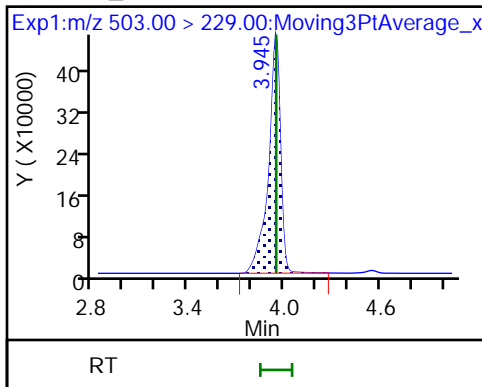
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

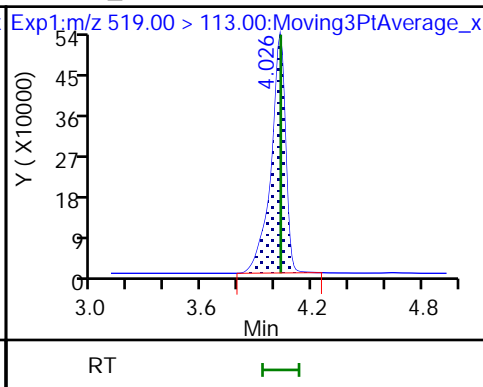
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

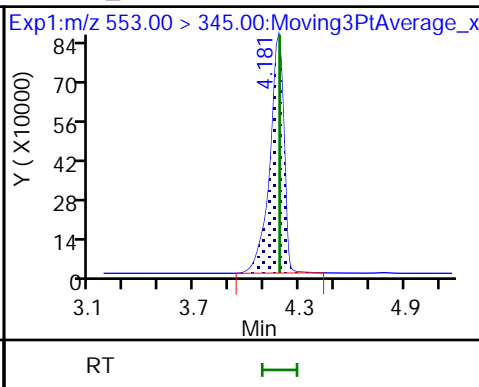
1 BFS_AB2



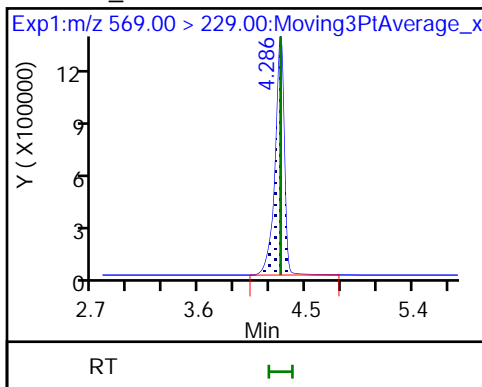
2 BFS_A3B



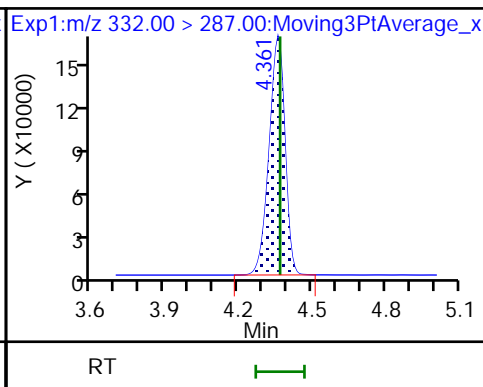
3 BFS_B3



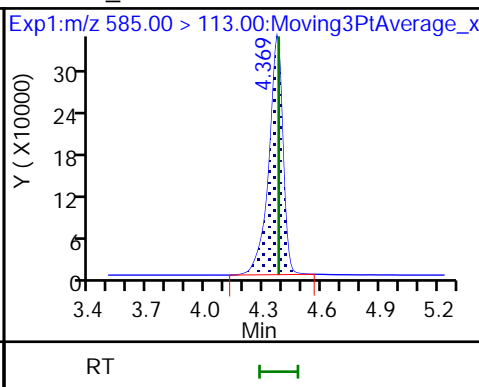
4 BFS_A2B2



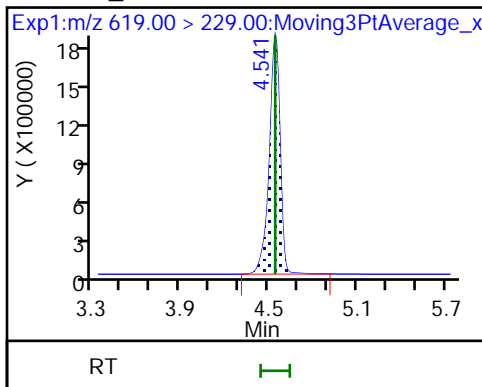
D 6 13C3 HFPO-DA



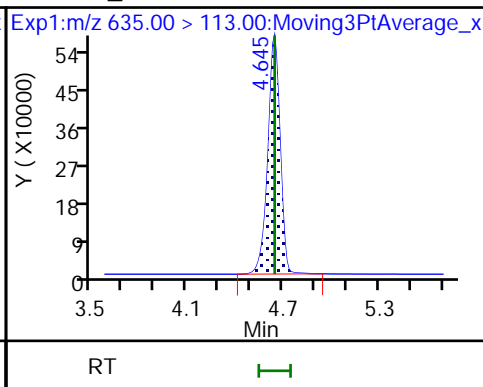
5 BFS_A4B



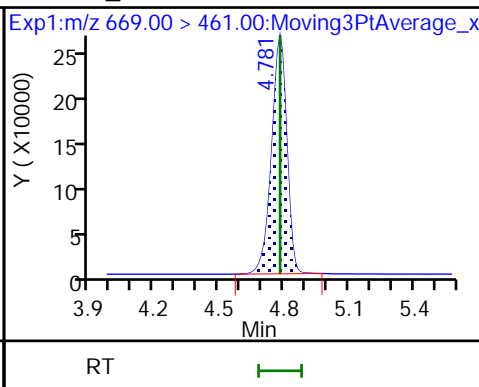
7 BFS_AB3



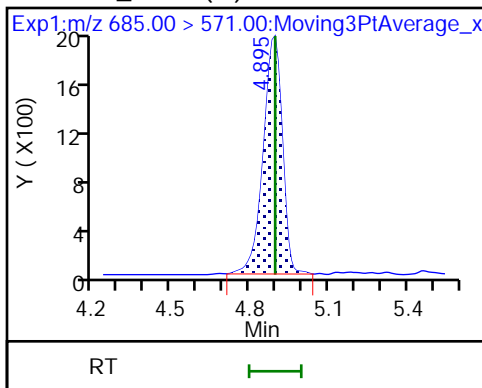
8 BFS_A3B2



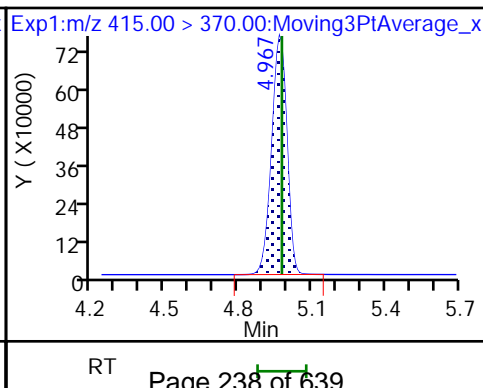
9 BFS_B4



10 BFS_A2B3 (M)



* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

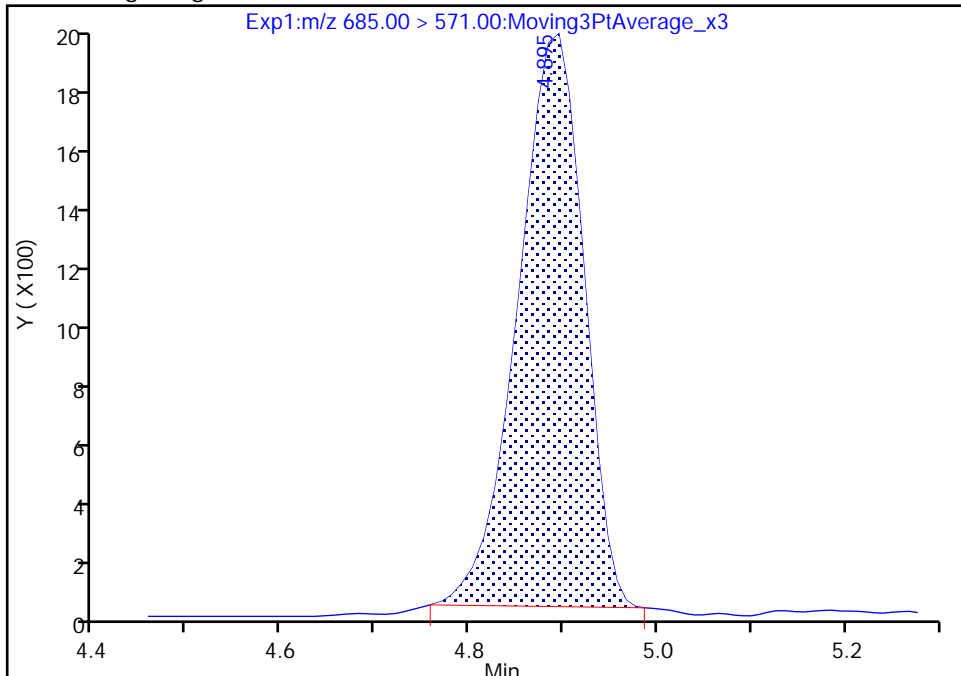
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Injection Date: 27-Jul-2022 19:52:12 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 24
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

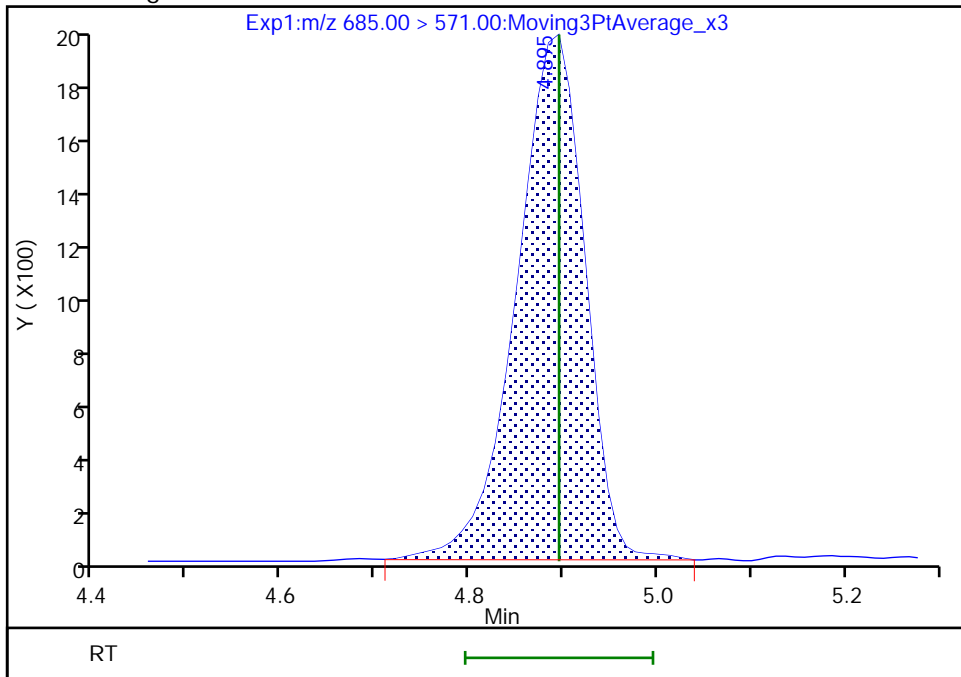
RT: 4.89
Area: 9434
Amount: 1.294636
Amount Units: ng/ml

Processing Integration Results



RT: 4.89
Area: 9910
Amount: 1.361045
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 07:01:49
Audit Action: Manually Integrated

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280078/31 Calibration Date: 07/27/2022 21:21
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-57.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.794		1.75	1.78	-1.6	30.0
BFS_A3B	L1ID		1.963		2.00	1.99	0.4	30.0
BFS_B3	L1ID		1.050		6.93	6.34	9.3	30.0
BFS_A2B2	Q2ID		0.6845		14.1	13.9	1.4	30.0
BFS_A4B	L1ID		2.141		1.12	1.10	1.5	30.0
BFS_AB3	Q2ID		0.8705		15.2	14.9	2.1	30.0
BFS_A3B2	Q2ID		1.620		2.63	2.62	0.3	30.0
BFS_B4	Q2ID		0.5285		3.50	3.46	1.1	30.0
BFS_A2B3	L1ID		0.0534		0.265	0.262	1.1	30.0
13C3 HFPO-DA	Ave	0.2241	0.2290		5.11	5.00	2.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-57.d
 Lims ID: CCV 5_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Jul-2022 21:21:31 ALS Bottle#: 6 Worklist Smp#: 31
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 5_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-031
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:56 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:02:05

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.949	0.002	0.906	506477	1.75	98.4	7540
2 BFS_A3B	519.00 > 113.00	4.021	4.029	-0.008	0.922	619312	2.00	100	644
3 BFS_B3	553.00 > 345.00	4.175	4.186	-0.011	0.957	1055000	6.93	109	665
4 BFS_A2B2	569.00 > 229.00	4.288	4.286	0.002	0.983	1505926	14.1	101	904
D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.369	-0.006	0.878	792307	5.11	102	2321
5 BFS_A4B	585.00 > 113.00	4.372	4.378	-0.006	1.002	373214	1.12	102	1249
7 BFS_AB3	619.00 > 229.00	4.544	4.542	0.002	1.041	2052427	15.2	102	2579
8 BFS_A3B2	635.00 > 113.00	4.648	4.645	0.003	1.065	672257	2.63	100	1309
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.096	289569	3.50	101	512
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.122	2218	0.2649	101	46.7 M
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.977	-0.009		3460311	5.00		3138

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-57.d

Injection Date: 27-Jul-2022 21:21:31

Instrument ID: 30733

Lims ID: CCV 5_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 31

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

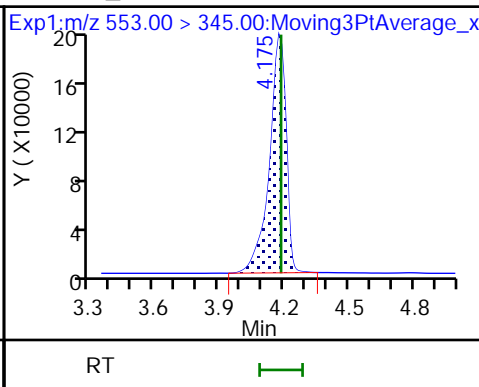
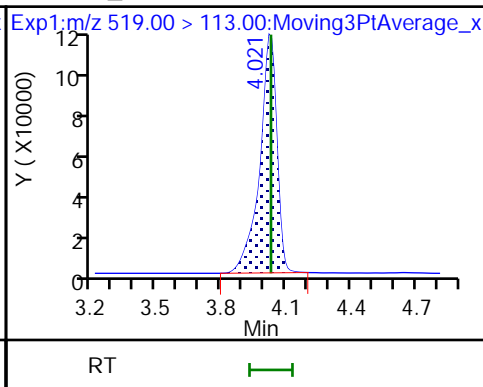
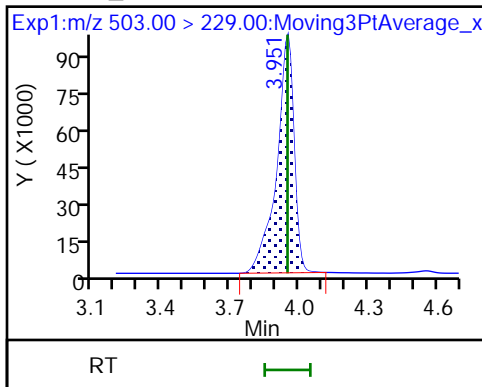
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

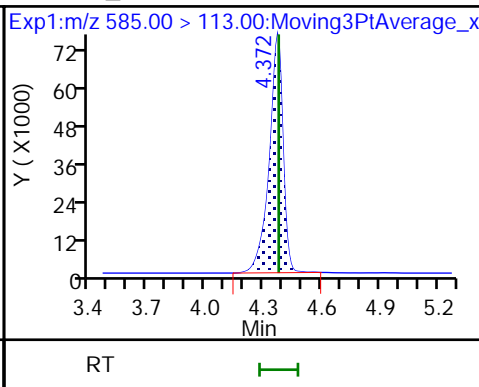
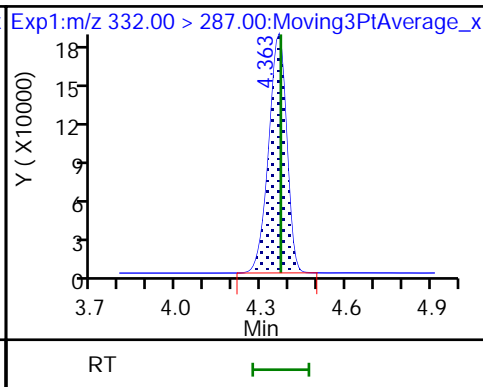
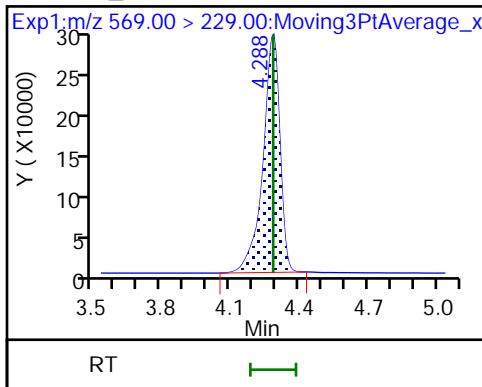
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

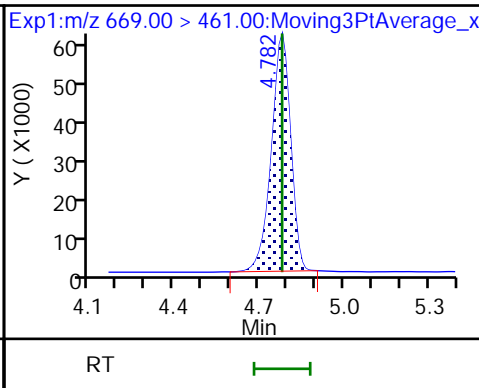
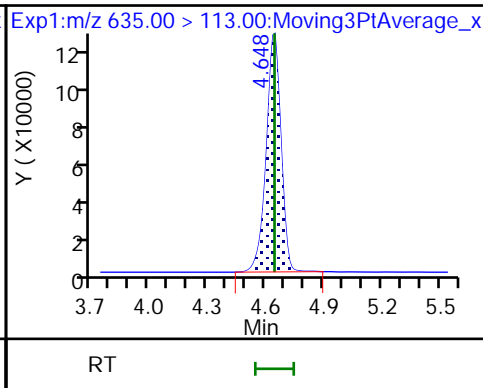
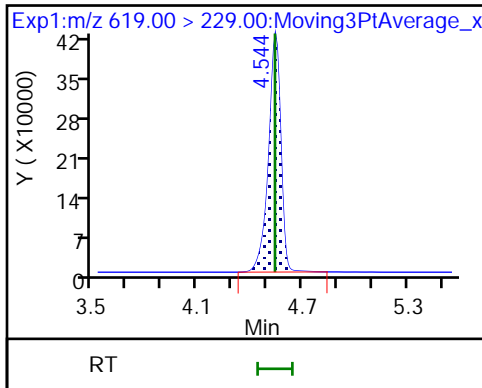
5 BFS_A4B



7 BFS_AB3

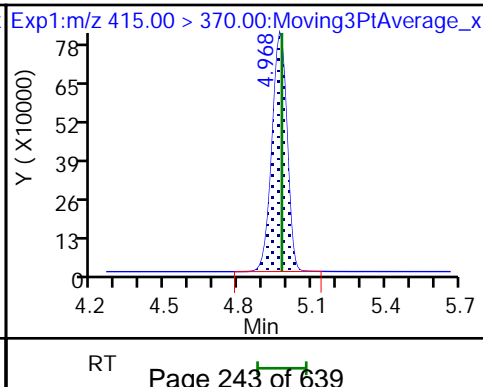
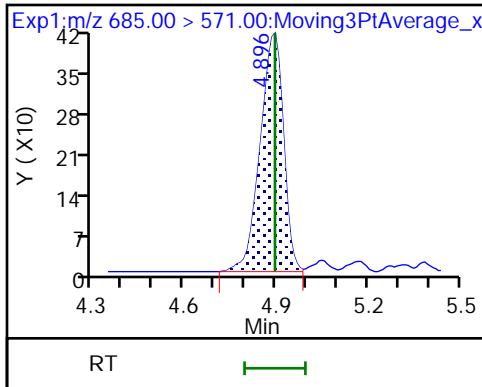
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

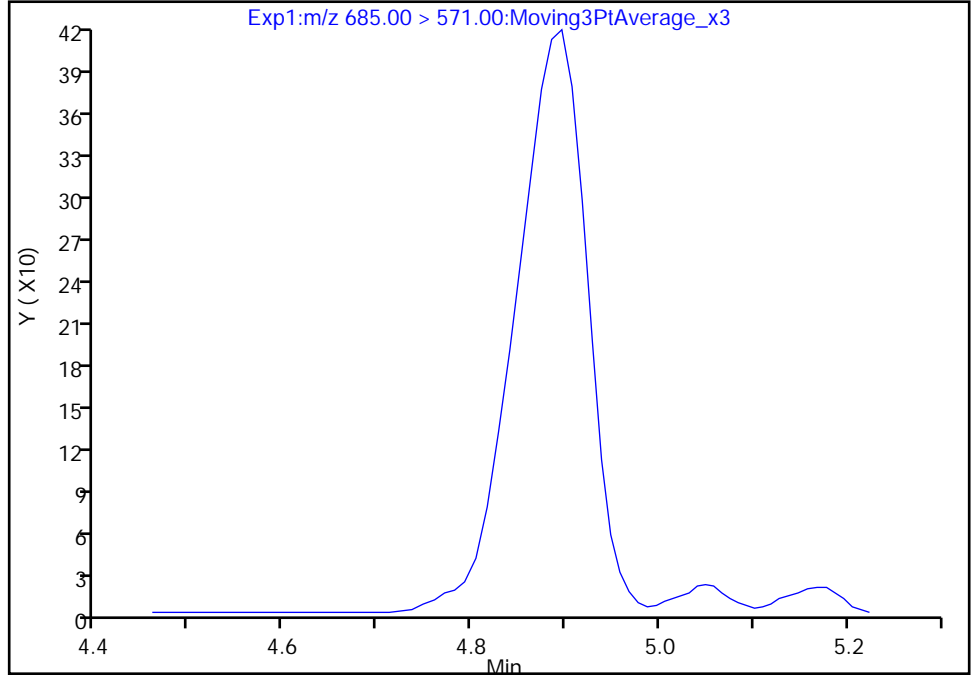
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-57.d
Injection Date: 27-Jul-2022 21:21:31 Instrument ID: 30733
Lims ID: CCV 5_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 31
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

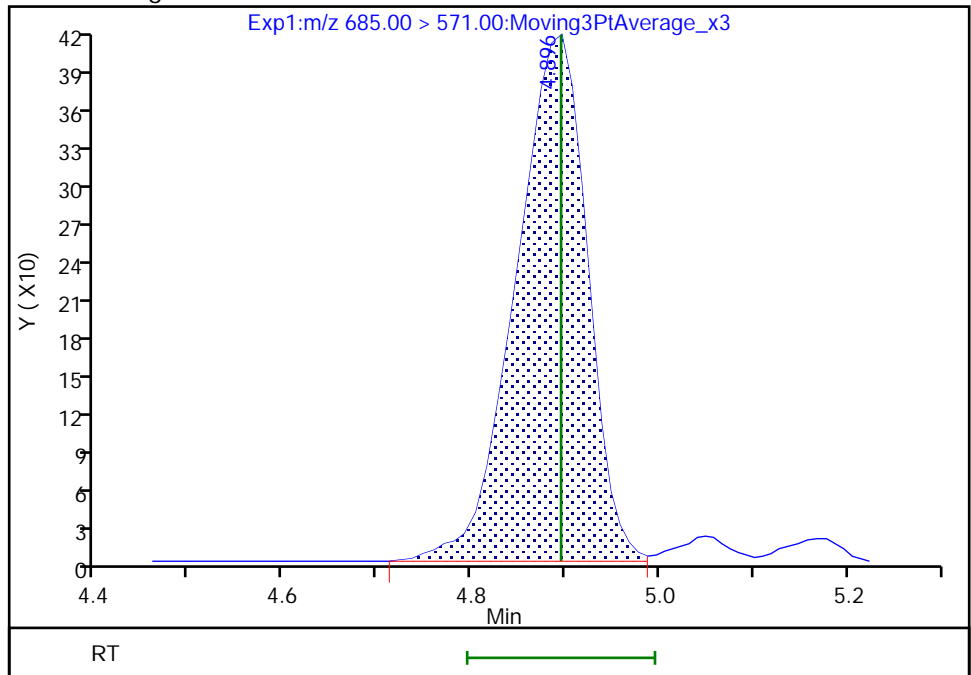
Not Detected
Expected RT: 4.90

Processing Integration Results



Manual Integration Results

RT: 4.90
Area: 2218
Amount: 0.264872
Amount Units: ng/ml



Reviewer: JVK6, 28-Jul-2022 07:02:01
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 244 of 639

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280078/38 Calibration Date: 07/27/2022 22:49
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-64.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.778		4.32	4.45	-3.0	30.0
BFS_A3B	L1ID		1.920		4.88	4.98	-2.0	30.0
BFS_B3	L1ID		1.021		16.9	15.8	6.6	30.0
BFS_A2B2	Q2ID		0.6509		33.6	34.7	-3.2	30.0
BFS_A4B	L1ID		2.151		2.80	2.75	2.0	30.0
BFS_AB3	Q2ID		0.8417		37.0	37.2	-0.6	30.0
BFS_A3B2	Q2ID		1.584		6.42	6.55	-2.0	30.0
BFS_B4	Q2ID		0.5111		8.46	8.64	-2.2	30.0
BFS_A2B3	L1ID		0.0418		0.539	0.655	-17.7	30.0
13C3 HFPO-DA	Ave	0.2241	0.2208		4.93	5.00	-1.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-64.d
 Lims ID: CCV 6_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Jul-2022 22:49:41 ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 6_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-038
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:02:17

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.942	3.949	-0.007	0.905	1143259	4.32	97.0	10855
2 BFS_A3B	519.00 > 113.00	4.023	4.029	-0.006	0.923	1379430	4.88	98.0	747
3 BFS_B3	553.00 > 345.00	4.177	4.186	-0.009	0.959	2336069	16.9	107	843
4 BFS_A2B2	569.00 > 229.00	4.281	4.286	-0.005	0.983	3261857	33.6	96.8	1560
D 6 13C3 HFPO-DA	332.00 > 287.00	4.357	4.369	-0.012	0.877	721893	4.93	98.5	2452
5 BFS_A4B	585.00 > 113.00	4.365	4.378	-0.013	1.002	854334	2.80	102	1349
7 BFS_AB3	619.00 > 229.00	4.536	4.542	-0.006	1.041	4520286	37.0	99.4	3892
8 BFS_A3B2	635.00 > 113.00	4.639	4.645	-0.006	1.065	1497434	6.42	98.0	1308
9 BFS_B4	669.00 > 461.00	4.771	4.781	-0.010	1.095	637862	8.46	97.8	978
10 BFS_A2B3	685.00 > 571.00	4.874	4.895	-0.021	1.119	3953	0.5387	82.3	83.4 M
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.977	-0.009		3269415	5.00		2442

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-64.d

Injection Date: 27-Jul-2022 22:49:41

Instrument ID: 30733

Lims ID: CCV 6_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 38

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

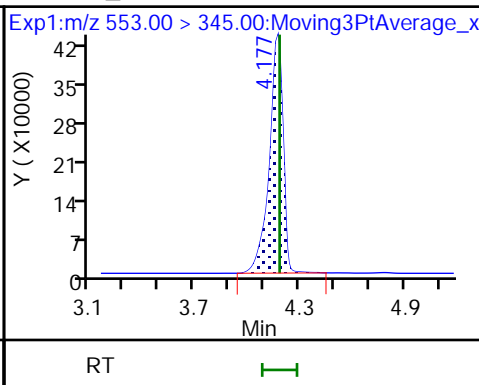
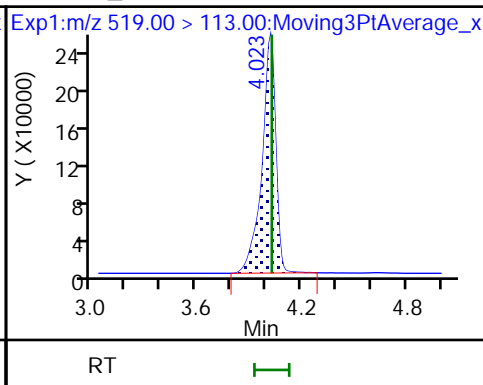
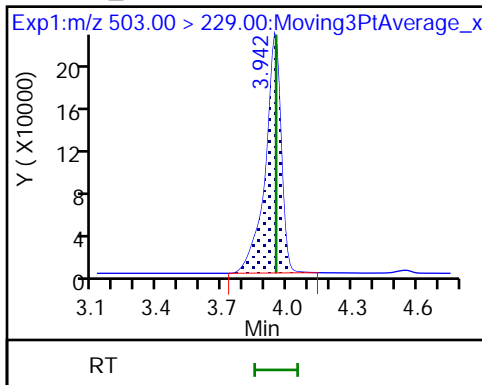
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

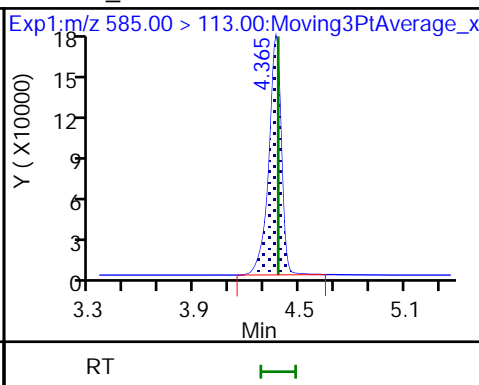
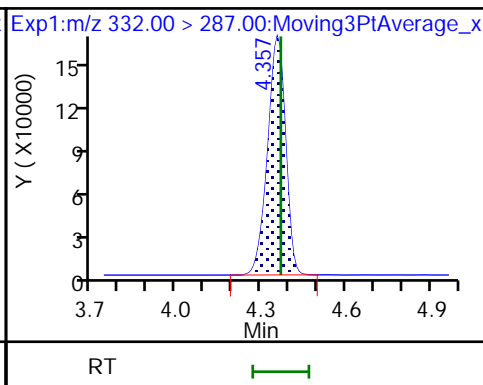
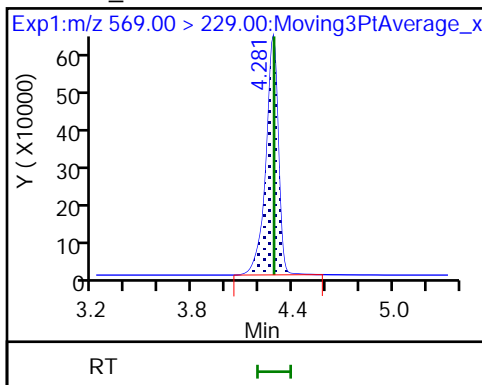
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

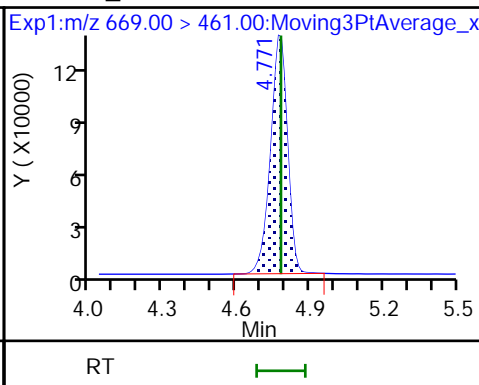
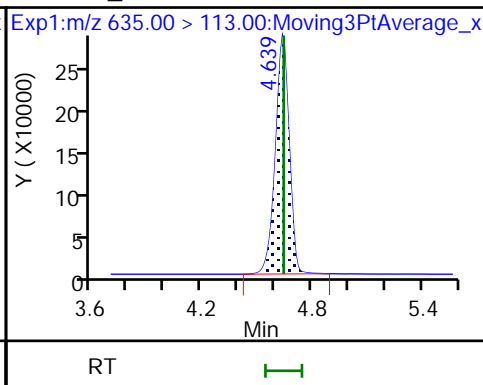
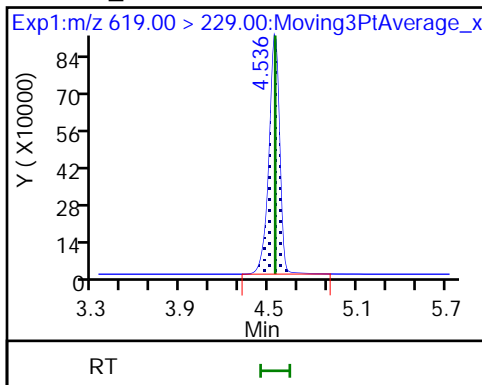
5 BFS_A4B



7 BFS_AB3

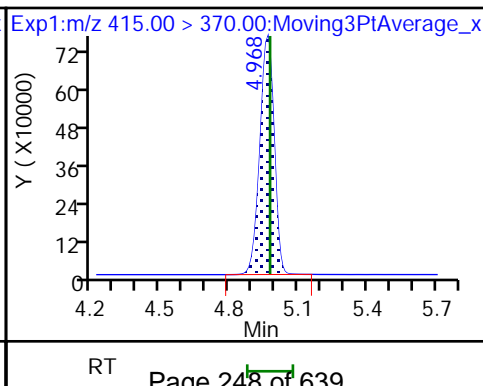
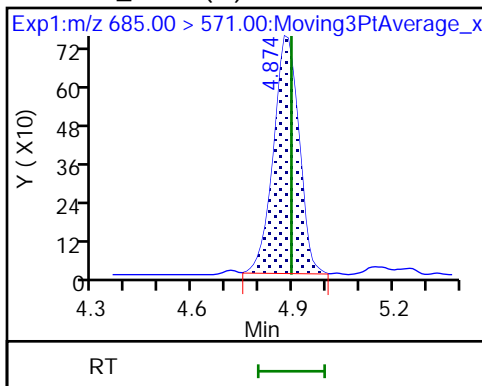
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

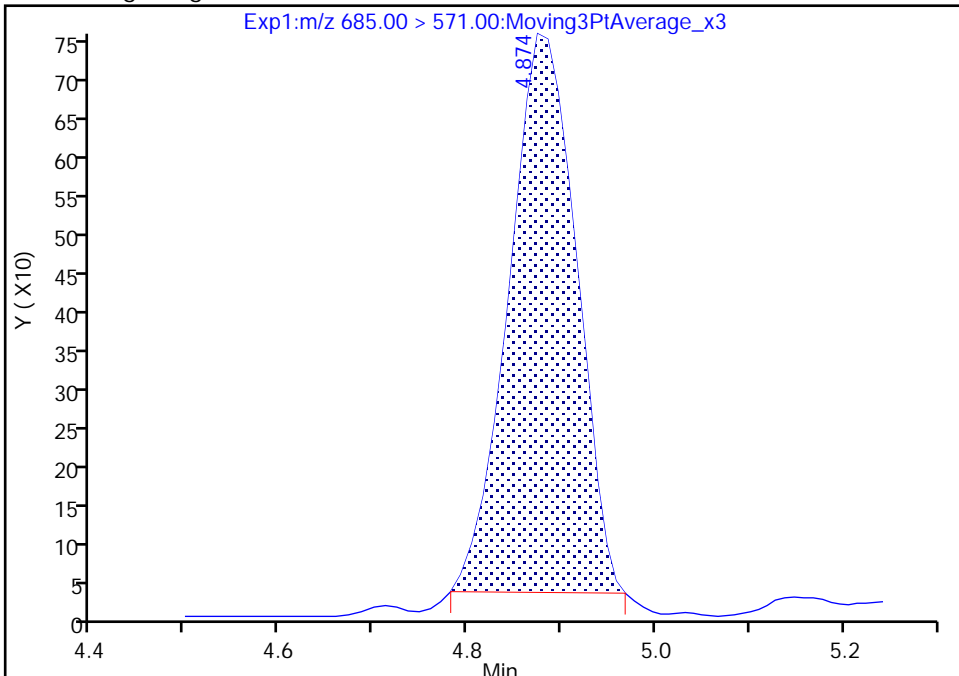
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Injection Date: 27-Jul-2022 22:49:41 Instrument ID: 30733
Lims ID: CCV 6_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 38
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

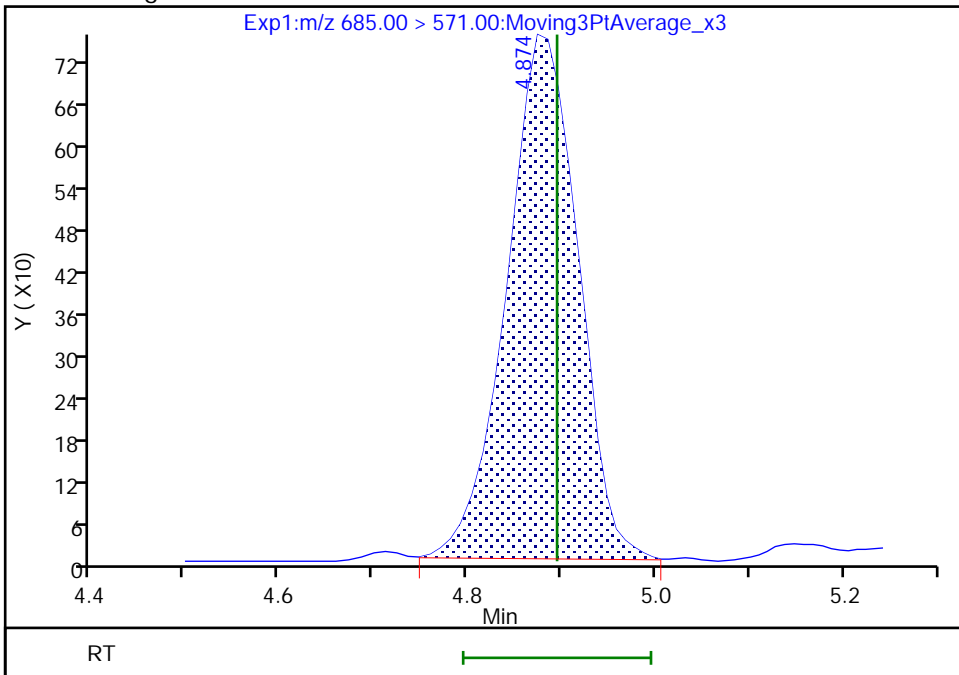
RT: 4.87
Area: 3598
Amount: 0.488387
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 3953
Amount: 0.538699
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 07:02:14
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 249 of 639

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280078/49 Calibration Date: 07/28/2022 01:08
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-75.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.787		8.66	8.91	-2.7	30.0
BFS_A3B	L1ID		1.989		10.1	9.95	1.5	30.0
BFS_B3	L1ID		1.039		34.4	31.7	8.5	30.0
BFS_A2B2	Q2ID		0.6672		69.4	69.4	-0.0	30.0
BFS_A4B	L1ID		2.192		5.72	5.50	3.9	30.0
BFS_AB3	Q2ID		0.8530		76.0	74.4	2.1	30.0
BFS_A3B2	Q2ID		1.629		13.3	13.1	1.4	30.0
BFS_B4	Q2ID		0.5085		16.9	17.3	-2.3	30.0
BFS_A2B3	L1ID		0.0538		1.42	1.31	8.5	30.0
13C3 HFPO-DA	Ave	0.2241	0.2204		4.92	5.00	-1.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-75.d
 Lims ID: CCV 7_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Jul-2022 01:08:11 ALS Bottle#: 8 Worklist Smp#: 49
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 7_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-049
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:46 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:02:31

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.943	3.949	-0.006	0.905	2320200	8.66	97.3	14480
2 BFS_A3B	519.00 > 113.00	4.024	4.029	-0.005	0.923	2886255	10.1	101	767
3 BFS_B3	553.00 > 345.00	4.178	4.186	-0.008	0.959	4797924	34.4	109	892
4 BFS_A2B2	569.00 > 229.00	4.282	4.286	-0.004	0.983	6749993	69.4	99.9	2125
D 6 13C3 HFPO-DA	332.00 > 287.00	4.357	4.369	-0.012	0.878	728759	4.92	98.4	1717
5 BFS_A4B	585.00 > 113.00	4.366	4.378	-0.012	1.002	1757552	5.72	104	1083
7 BFS_AB3	619.00 > 229.00	4.537	4.542	-0.005	1.041	9248665	76.0	102	4418
8 BFS_A3B2	635.00 > 113.00	4.640	4.645	-0.005	1.065	3108897	13.3	101	2157
9 BFS_B4	669.00 > 461.00	4.776	4.781	-0.005	1.096	1281360	16.9	97.7	1297
10 BFS_A2B3	685.00 > 571.00	4.879	4.895	-0.016	1.120	10276	1.42	109	219 M
* 11 13C2 PFOA	415.00 > 370.00	4.961	4.977	-0.016		3305827	5.00		2419 M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-75.d

Injection Date: 28-Jul-2022 01:08:11

Instrument ID: 30733

Lims ID: CCV 7_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 49

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

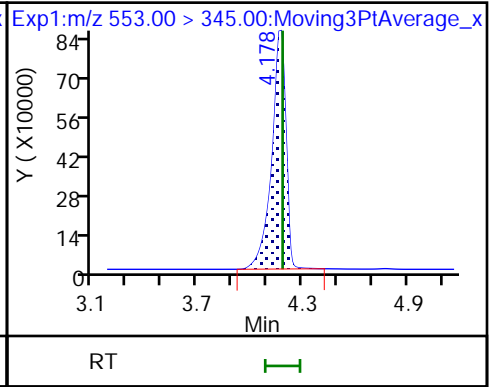
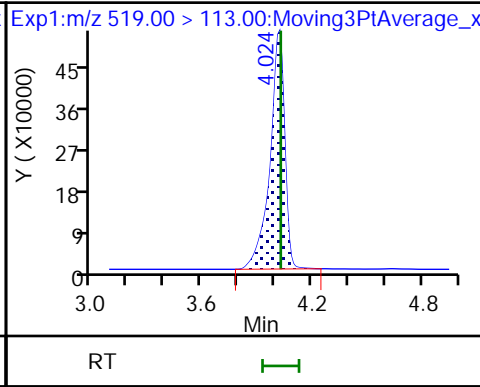
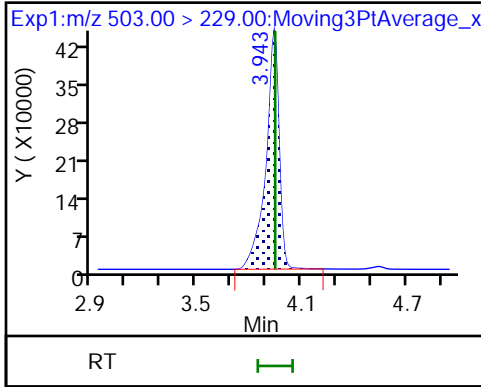
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

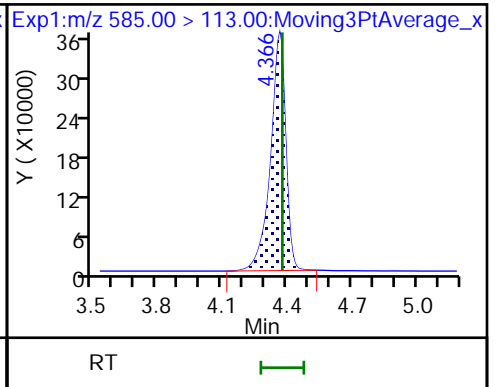
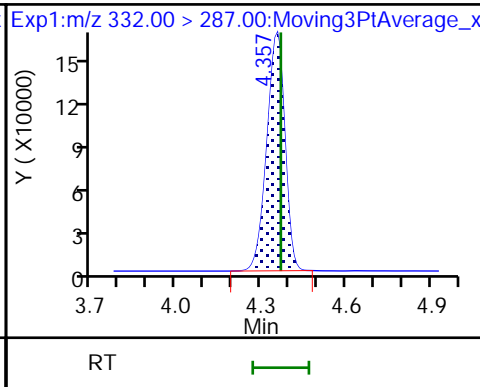
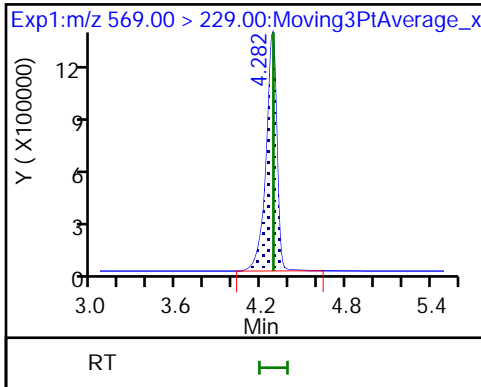
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

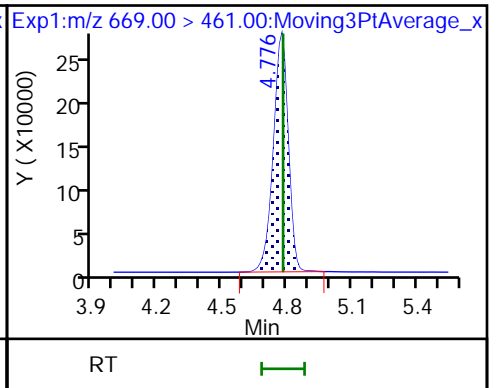
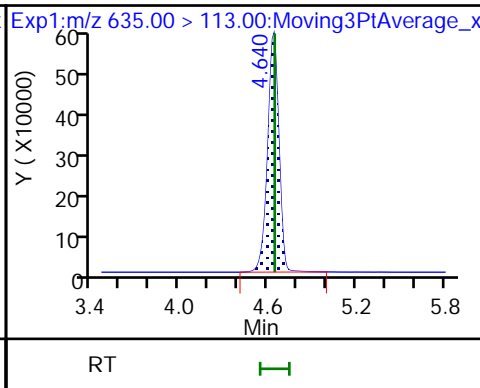
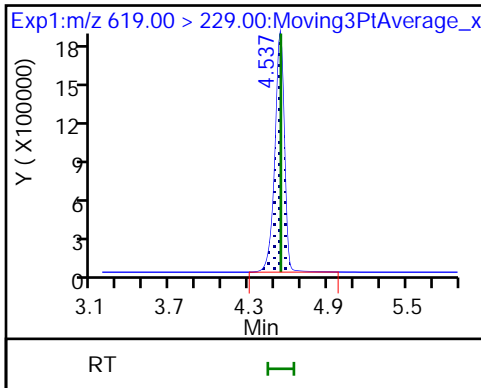
5 BFS_A4B



7 BFS_AB3

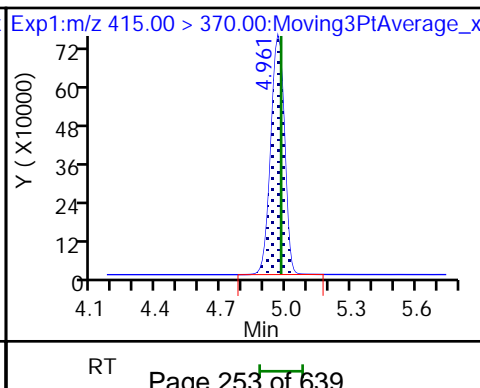
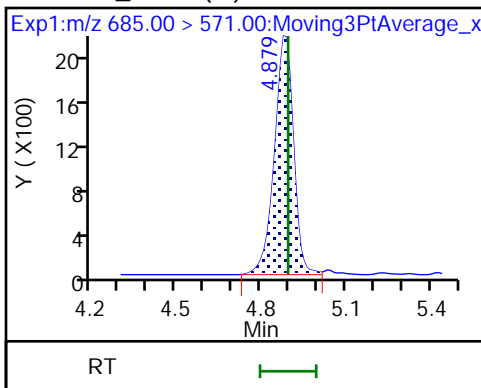
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

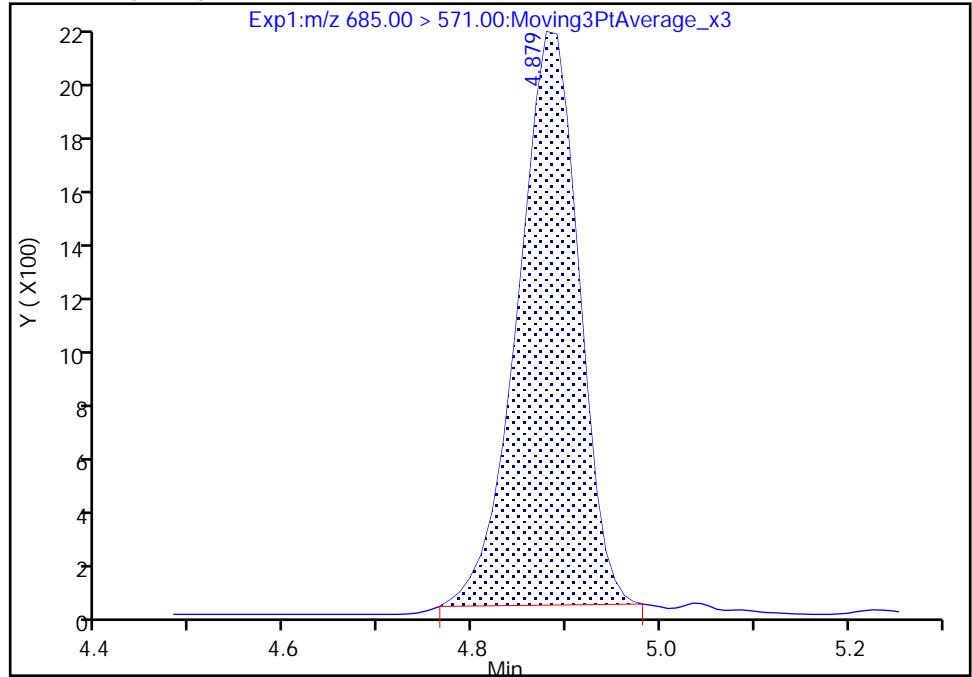
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-75.d
Injection Date: 28-Jul-2022 01:08:11 Instrument ID: 30733
Lims ID: CCV 7_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 49
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

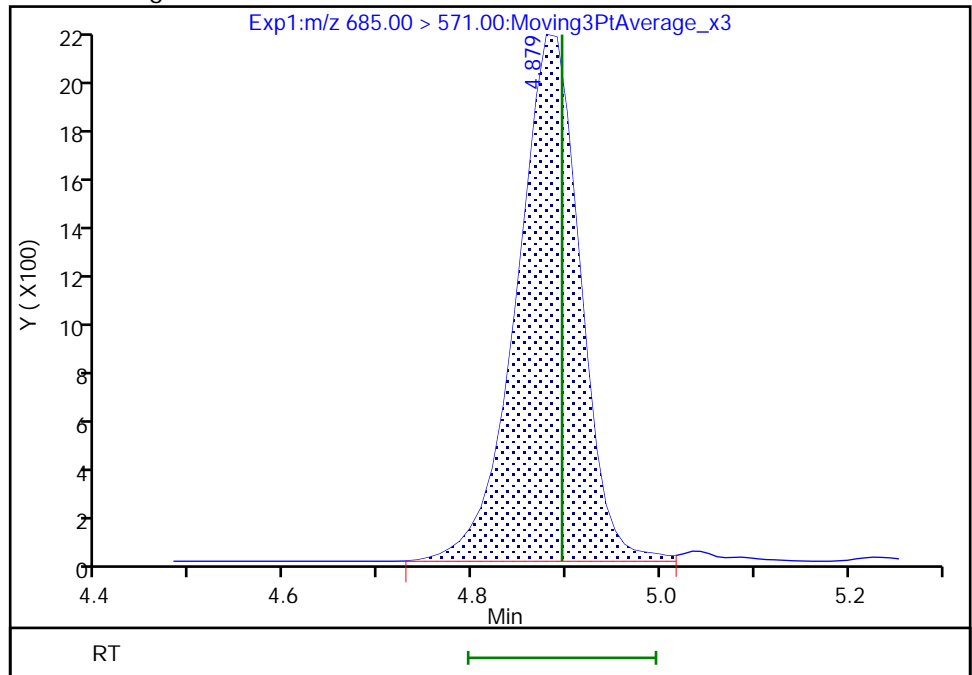
RT: 4.88
Area: 9741
Amount: 1.345987
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 10276
Amount: 1.421095
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 07:02:27
Audit Action: Manually Integrated

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280078/56 Calibration Date: 07/28/2022 02:37
 Instrument ID: 30733 Calib Start Date: 07/27/2022 11:52
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/27/2022 13:45
 Lab File ID: 22JUL27BFS-82.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.659		1.62	1.78	-9.0	30.0
BFS_A3B	L1ID		1.849		1.88	1.99	-5.4	30.0
BFS_B3	L1ID		1.010		6.66	6.34	5.0	30.0
BFS_A2B2	Q2ID		0.6780		13.9	13.9	0.4	30.0
BFS_A4B	L1ID		2.076		1.08	1.10	-1.5	30.0
BFS_AB3	Q2ID		0.8641		15.1	14.9	1.3	30.0
BFS_A3B2	Q2ID		1.589		2.58	2.62	-1.6	30.0
BFS_B4	Q2ID		0.5020		3.32	3.46	-3.9	30.0
BFS_A2B3	L1ID		0.0459		0.225	0.262	-14.2	30.0
13C3 HFPO-DA	Ave	0.2241	0.2353		5.25	5.00	5.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-82.d
 Lims ID: CCV 8_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Jul-2022 02:37:54 ALS Bottle#: 6 Worklist Smp#: 56
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 8_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-056
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:10 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:02:48

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags	
1 BFS_AB2	503.00 > 229.00	3.951	3.949	0.002	0.905	466881	1.62	91.0	6519	
2 BFS_A3B	519.00 > 113.00	4.022	4.029	-0.007	0.922	581705	1.88	94.6	564	
3 BFS_B3	553.00 > 345.00	4.177	4.186	-0.009	0.957	1011758	6.66	105	699	
4 BFS_A2B2	569.00 > 229.00	4.290	4.286	0.004	0.983	1487624	13.9	100	1078	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.365	4.369	-0.004	0.879	790190	5.25	105	1860	
5 BFS_A4B	585.00 > 113.00	4.373	4.378	-0.005	1.002	360985	1.08	98.5	710	
7 BFS_AB3	619.00 > 229.00	4.545	4.542	0.003	1.041	2031929	15.1	101	2062	
8 BFS_A3B2	635.00 > 113.00	4.649	4.645	0.004	1.065	657769	2.58	98.4	1170	
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.096	274325	3.32	96.1	494	
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.122	1902	0.2247	85.8	43.4	M
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.977	-0.009		3358212	5.00		2169	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-82.d

Injection Date: 28-Jul-2022 02:37:54

Instrument ID: 30733

Lims ID: CCV 8_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 56

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

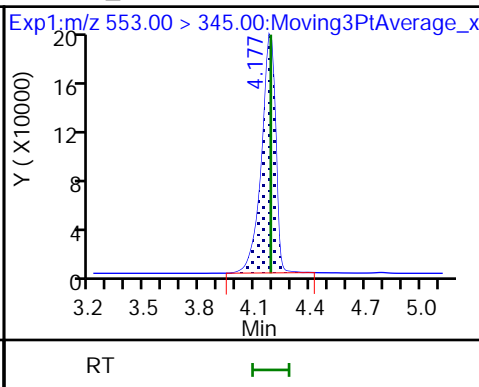
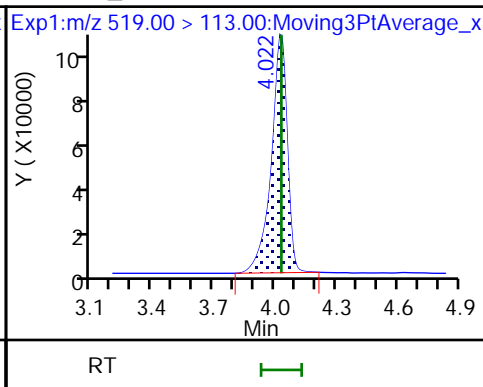
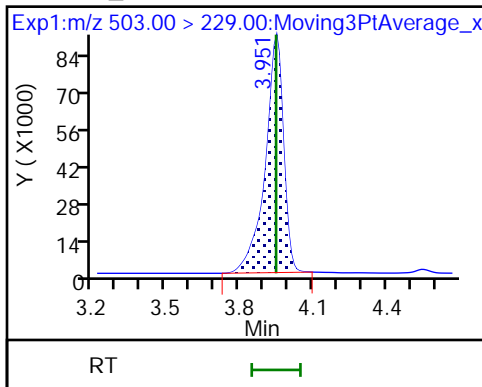
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

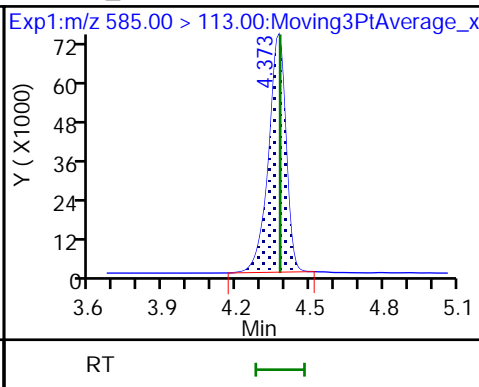
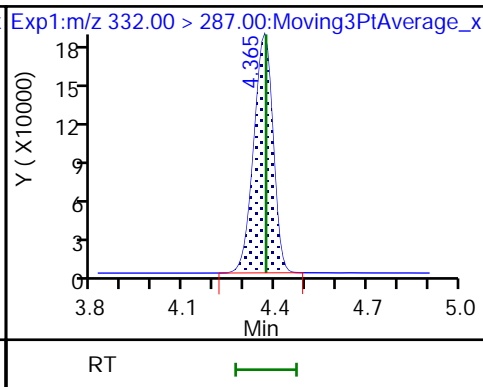
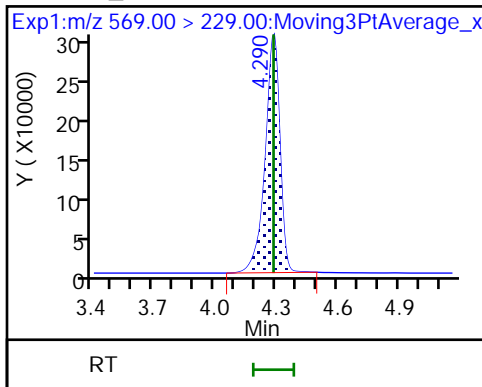
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

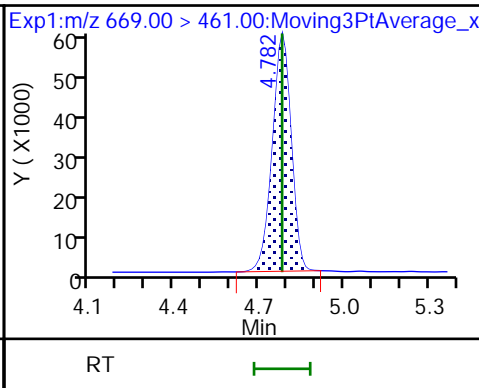
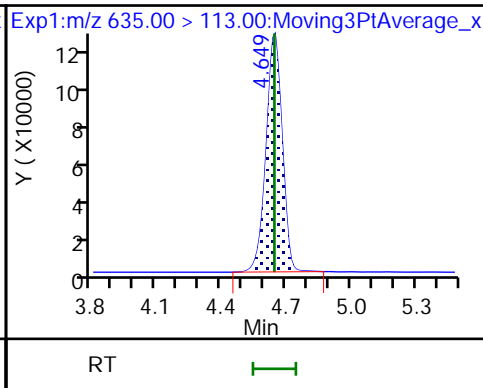
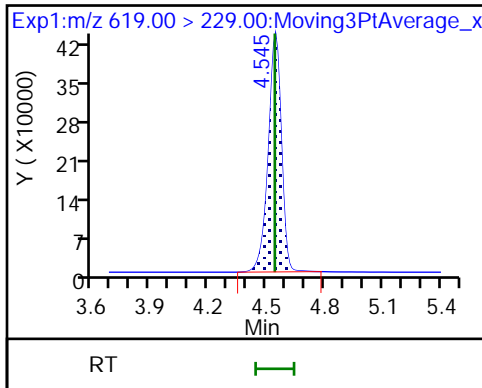
5 BFS_A4B



7 BFS_AB3

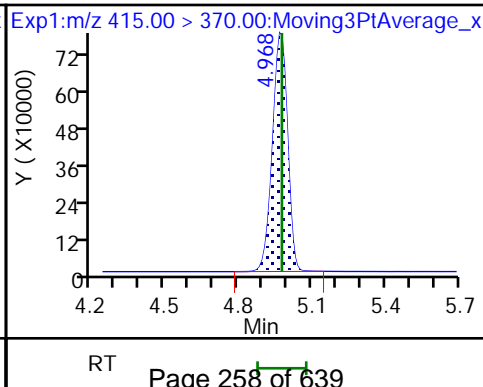
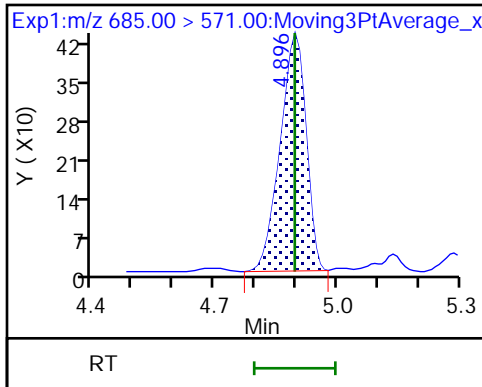
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

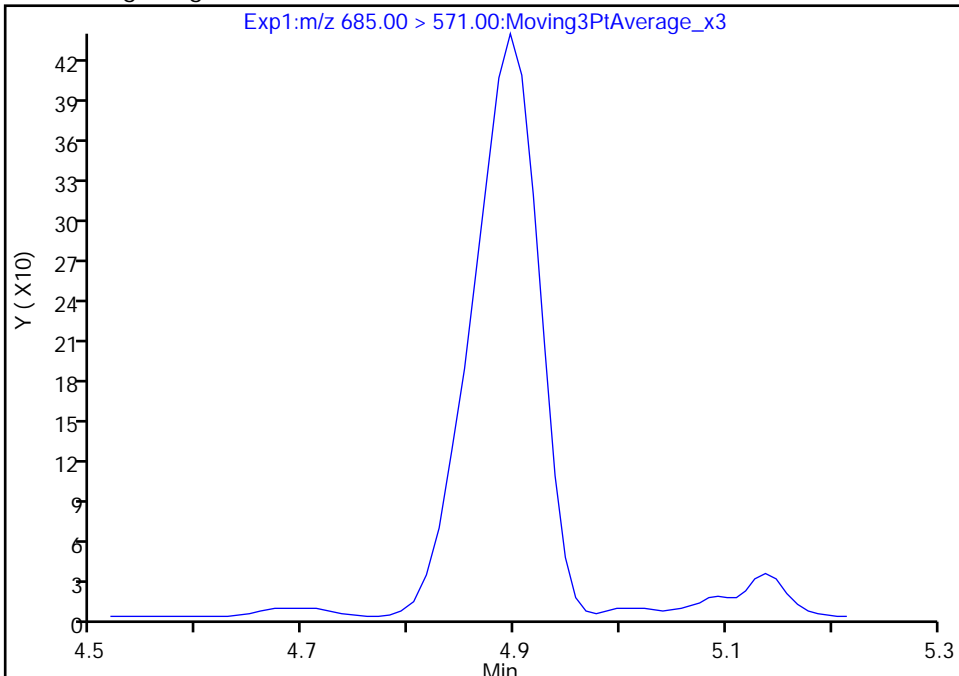
Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-82.d
Injection Date: 28-Jul-2022 02:37:54 Instrument ID: 30733
Lims ID: CCV 8_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 56
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

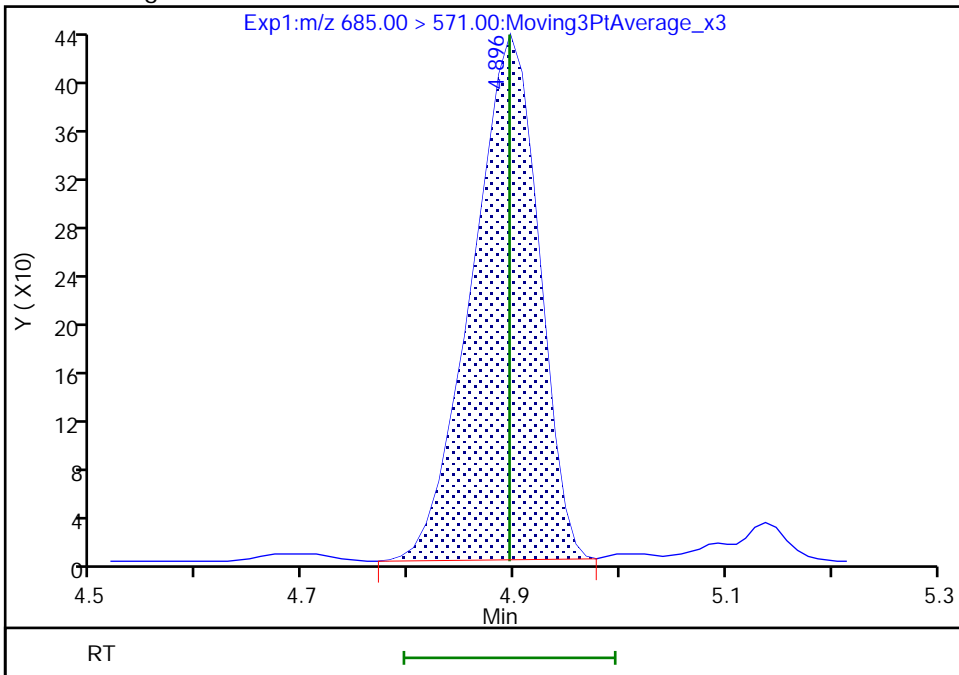
Not Detected
Expected RT: 4.90

Processing Integration Results



RT: 4.90
Area: 1902
Amount: 0.224726
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 07:02:42
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 259 of 639

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-277007/1-A

Matrix: Water Lab File ID: 22JUL27BFS-51.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:26

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 20:04

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-51.d
 Lims ID: MB 410-277007/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Jul-2022 20:04:47 ALS Bottle#: 33 Worklist Smp#: 25
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-277007/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:31:53
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.363 4.369 -0.006 0.876 757074 4.93 98.6 2864
 * 11 13C2 PFOA
 415.00 > 370.00 4.978 4.977 0.001 3427949 5.00 3214

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-51.d

Injection Date: 27-Jul-2022 20:04:47

Instrument ID: 30733

Lims ID: MB 410-277007/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 33

Worklist Smp#: 25

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

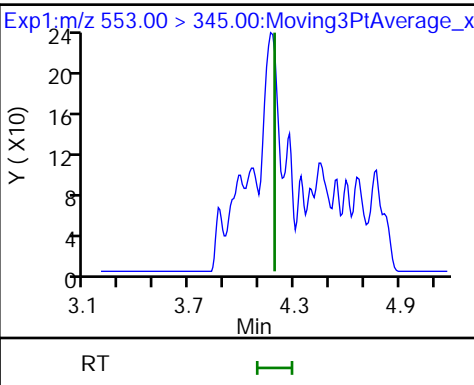
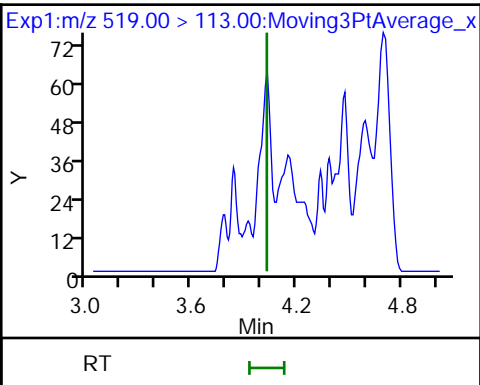
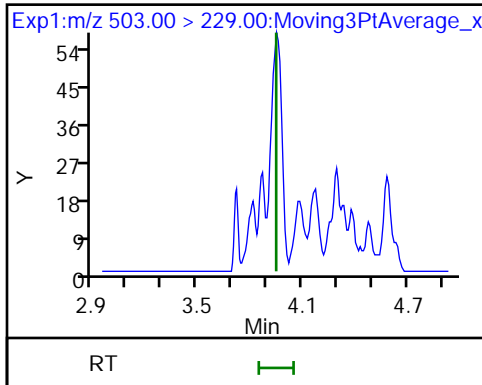
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

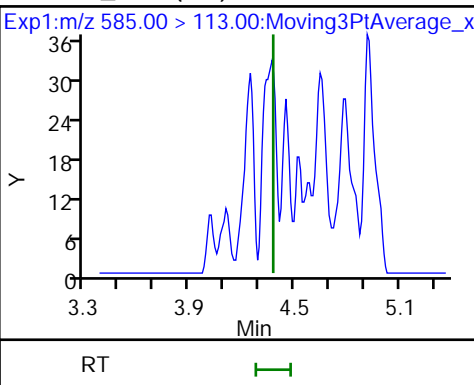
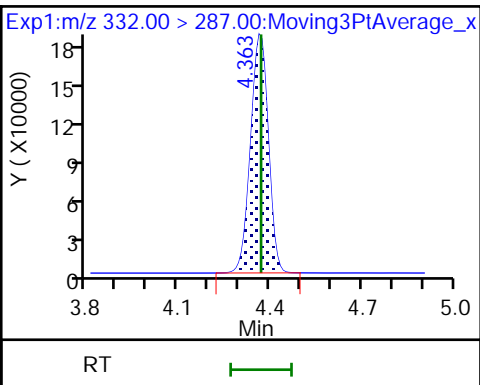
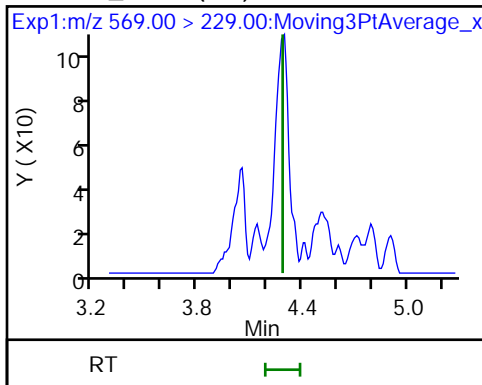
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

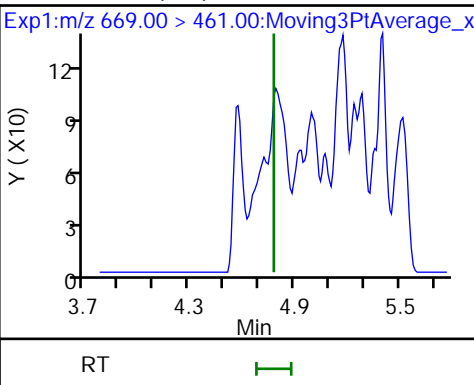
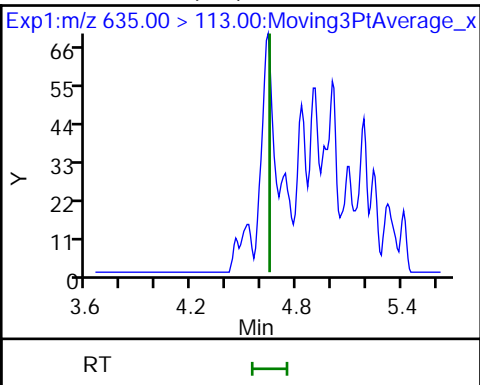
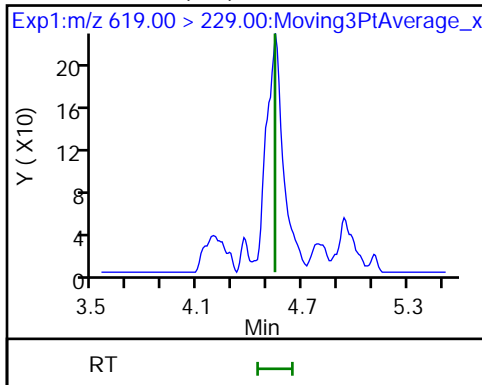
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

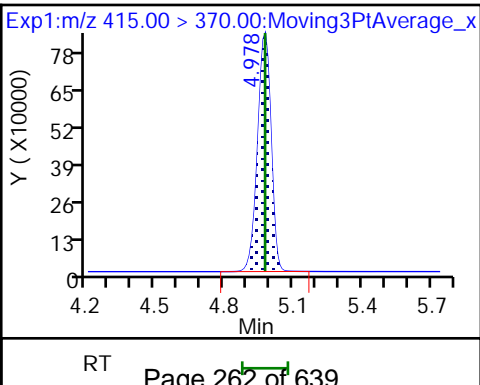
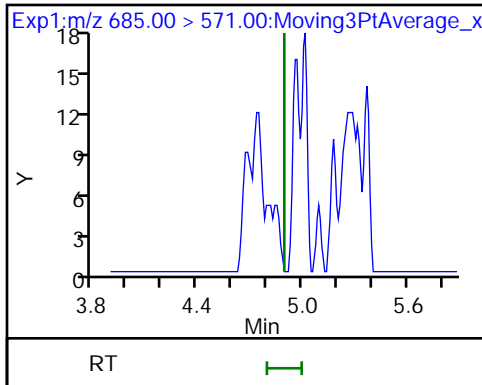
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-277008/1-A

Matrix: Water Lab File ID: 22JUL27BFS-38.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 17:21

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-38.d
 Lims ID: MB 410-277008/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Jul-2022 17:21:06 ALS Bottle#: 21 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-277008/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:13:44
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.369 4.369 0.0 0.878 710270 5.26 105 2899
 * 11 13C2 PFOA
 415.00 > 370.00 4.976 4.977 -0.001 3015091 5.00 5162

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-38.d

Injection Date: 27-Jul-2022 17:21:06

Instrument ID: 30733

Lims ID: MB 410-277008/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 21

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

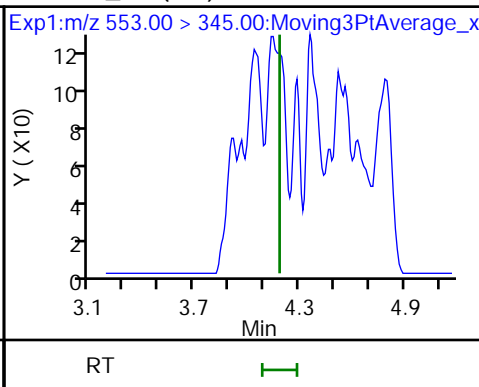
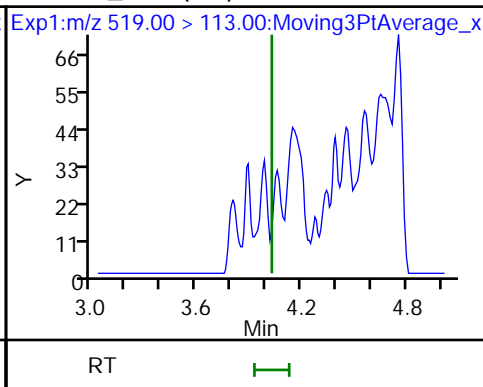
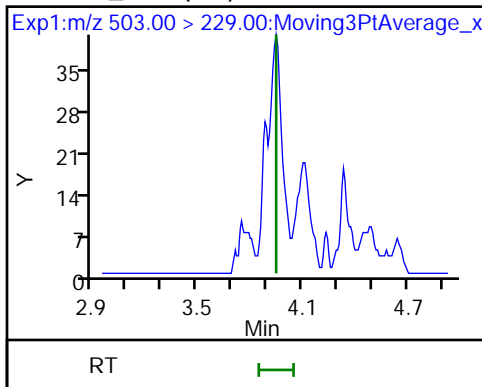
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

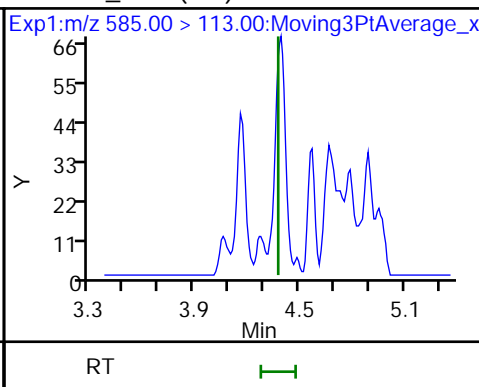
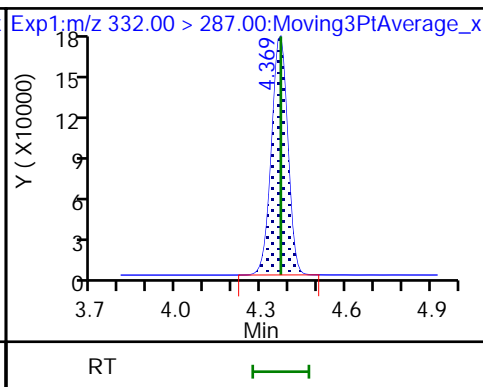
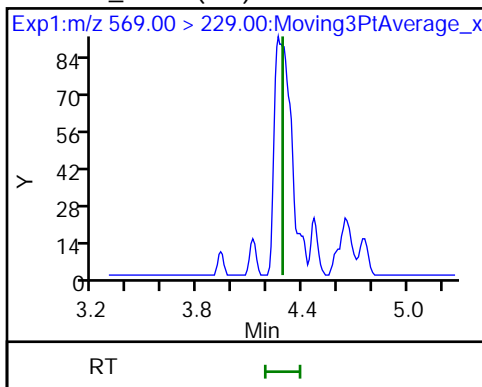
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

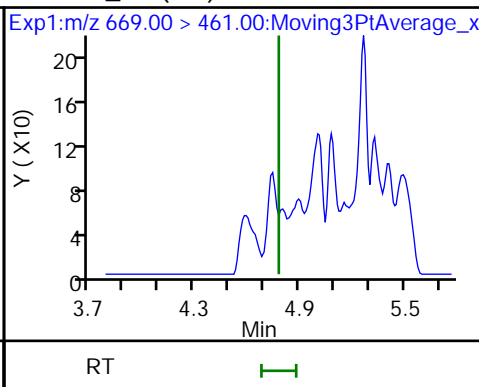
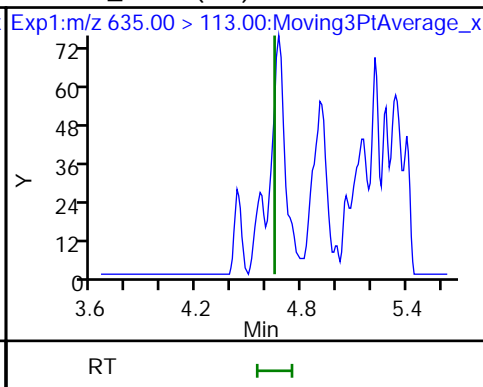
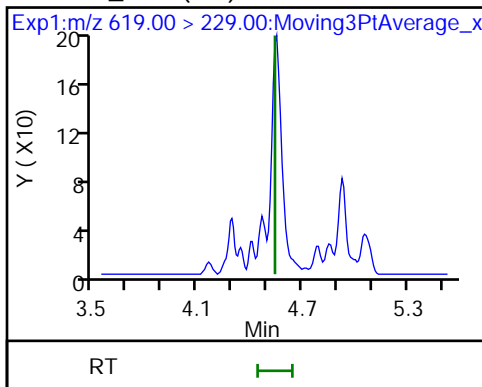
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

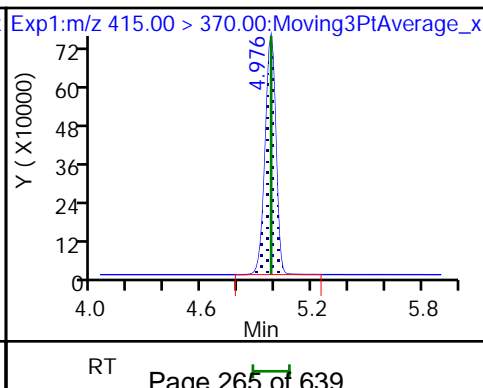
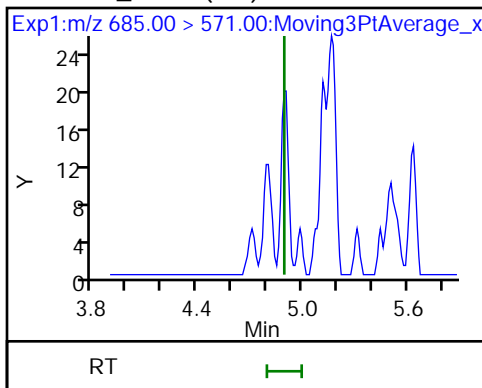
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-277011/1-A

Matrix: Water Lab File ID: 22JUL27BFS-58.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:29

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 21:34

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-58.d
 Lims ID: MB 410-277011/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Jul-2022 21:34:09 ALS Bottle#: 39 Worklist Smp#: 32
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-277011/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-032
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:56 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:33:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.366	4.369	-0.003	0.878	782903	5.14	103	2814
* 11 13C2 PFOA	415.00 > 370.00	4.971	4.977	-0.006		3400872	5.00		3397

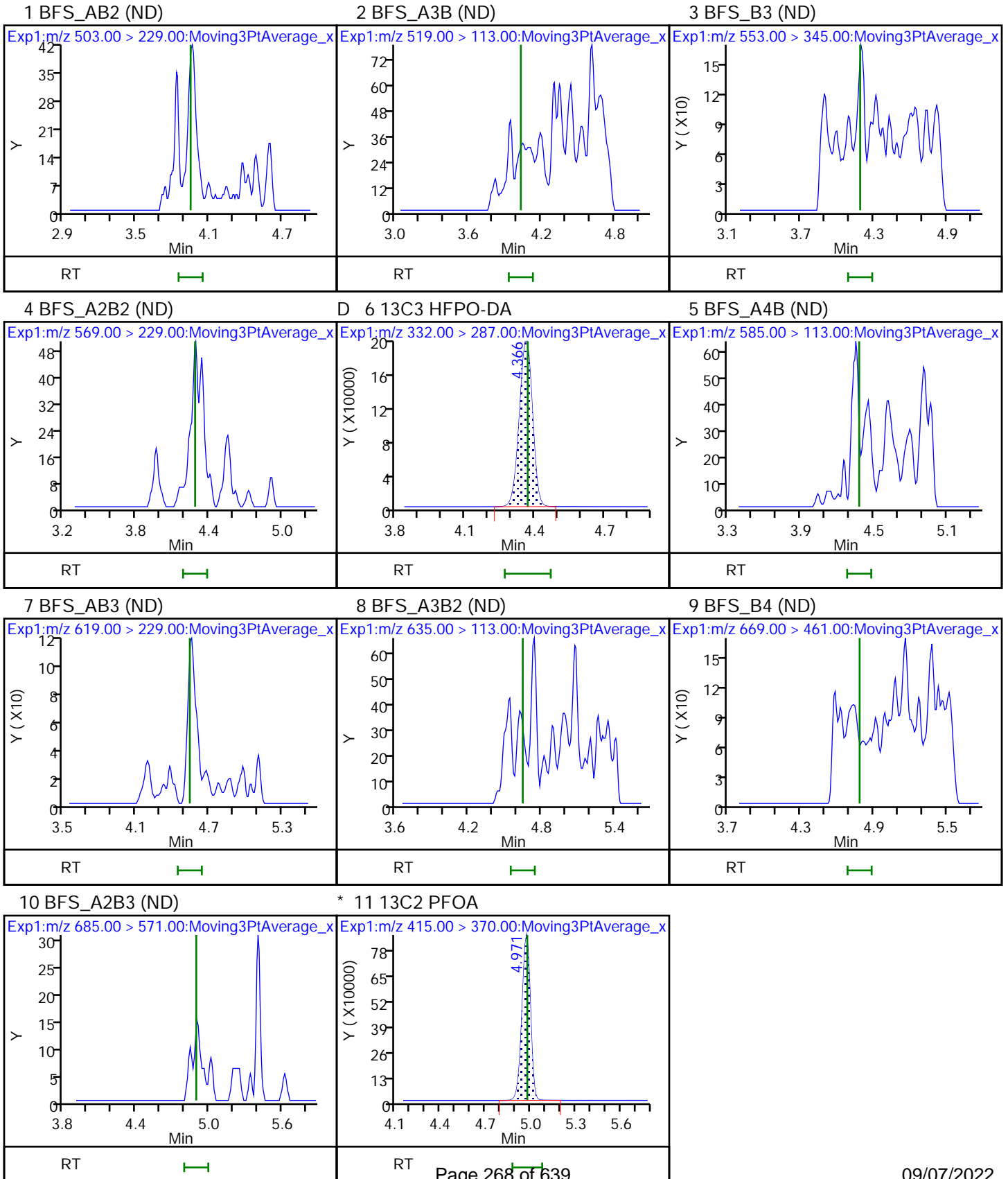
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-58.d
Injection Date: 27-Jul-2022 21:34:09 Instrument ID: 30733
Lims ID: MB 410-277011/1-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 39 Worklist Smp#: 32
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-277013/1-A

Matrix: Water Lab File ID: 22JUL27BFS-76.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:33

Sample wt/vol: 250 (mL) Date Analyzed: 07/28/2022 01:20

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1.01	J	1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	1.14	J	1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-76.d
 Lims ID: MB 410-277013/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Jul-2022 01:20:45 ALS Bottle#: 1 Worklist Smp#: 50
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-277013/1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0062810-050
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:46 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:37:08
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
4 BFS_A2B2	569.00 > 229.00	4.288	4.286	0.002	0.983	23375	0.2526	310	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.369	-0.006	0.877	718264	4.70	93.9	2846
7 BFS_AB3	619.00 > 229.00	4.544	4.542	0.002	1.041	32671	0.2841	326	
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.977	0.0		3413118	5.00	2758	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-76.d

Injection Date: 28-Jul-2022 01:20:45

Instrument ID: 30733

Lims ID: MB 410-277013/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 50

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

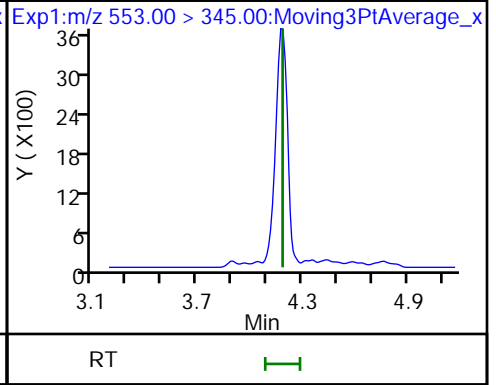
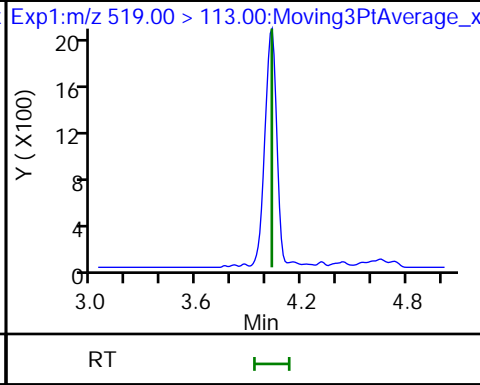
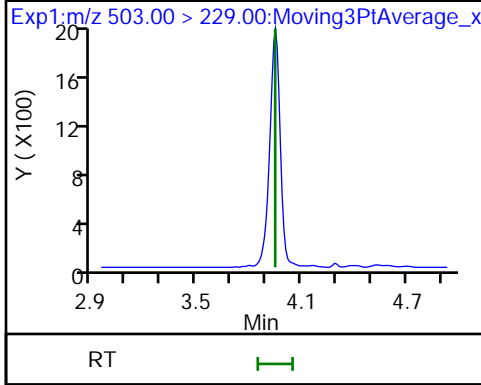
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

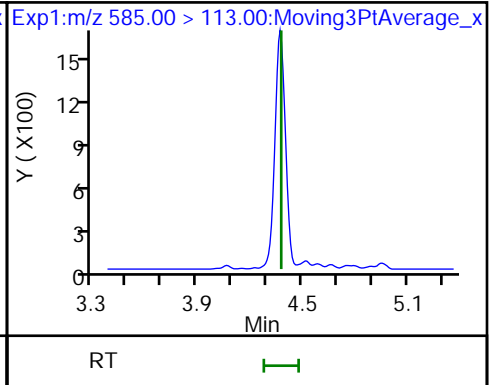
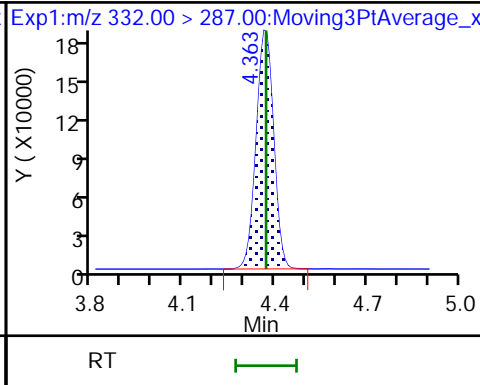
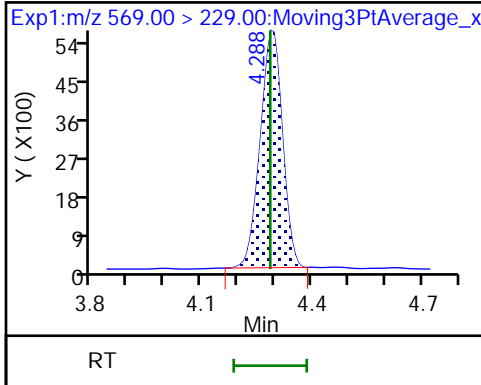
3 BFS_B3 (ND)



4 BFS_A2B2

D 6 13C3 HFPO-DA

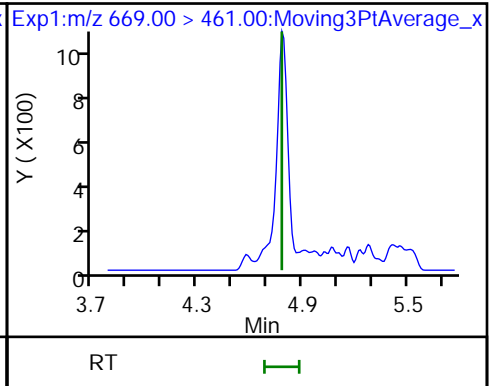
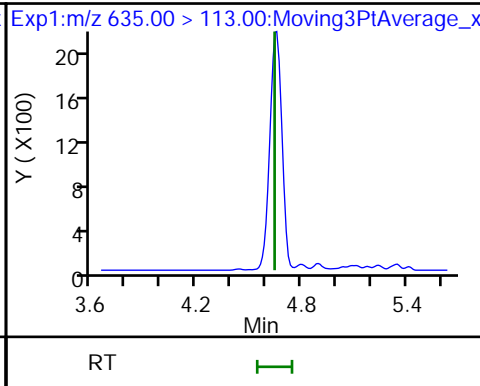
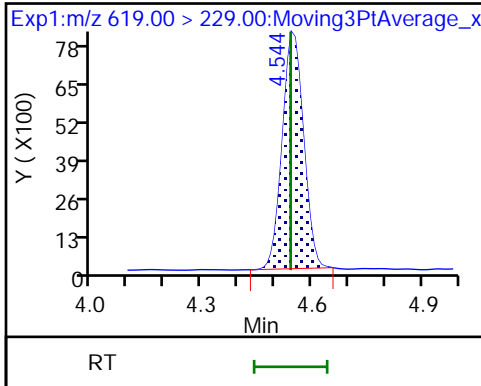
5 BFS_A4B (ND)



7 BFS_AB3

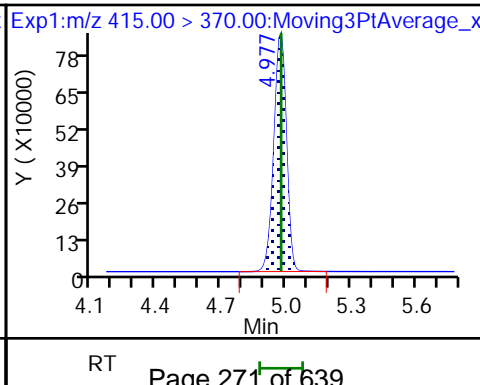
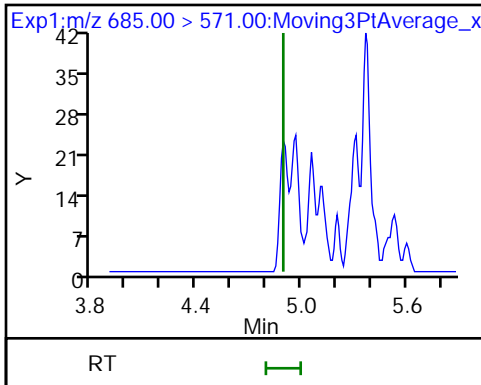
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-277014/1-A

Matrix: Water Lab File ID: 22JUL27BFS-65.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 23:02

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-65.d
 Lims ID: MB 410-277014/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Jul-2022 23:02:15 ALS Bottle#: 45 Worklist Smp#: 39
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-277014/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-039
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:35:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.361 4.369 -0.008 0.876 744922 4.94 98.8 2905
 * 11 13C2 PFOA
 415.00 > 370.00 4.976 4.977 -0.001 3364542 5.00 2634

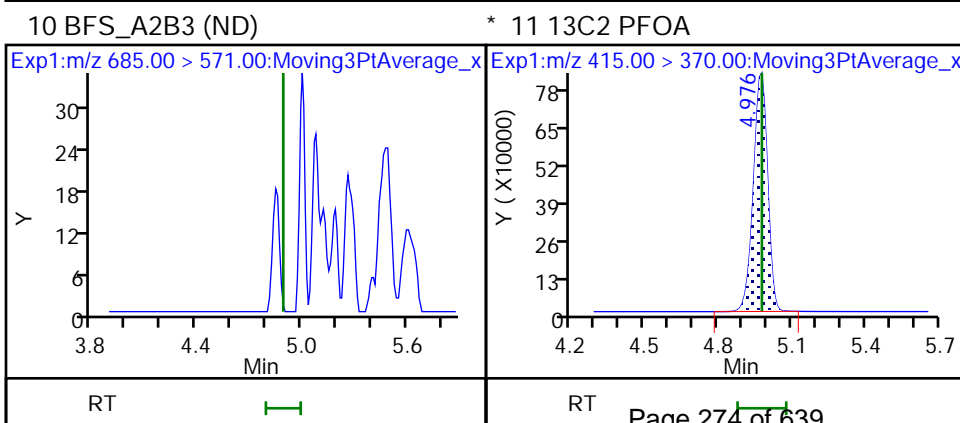
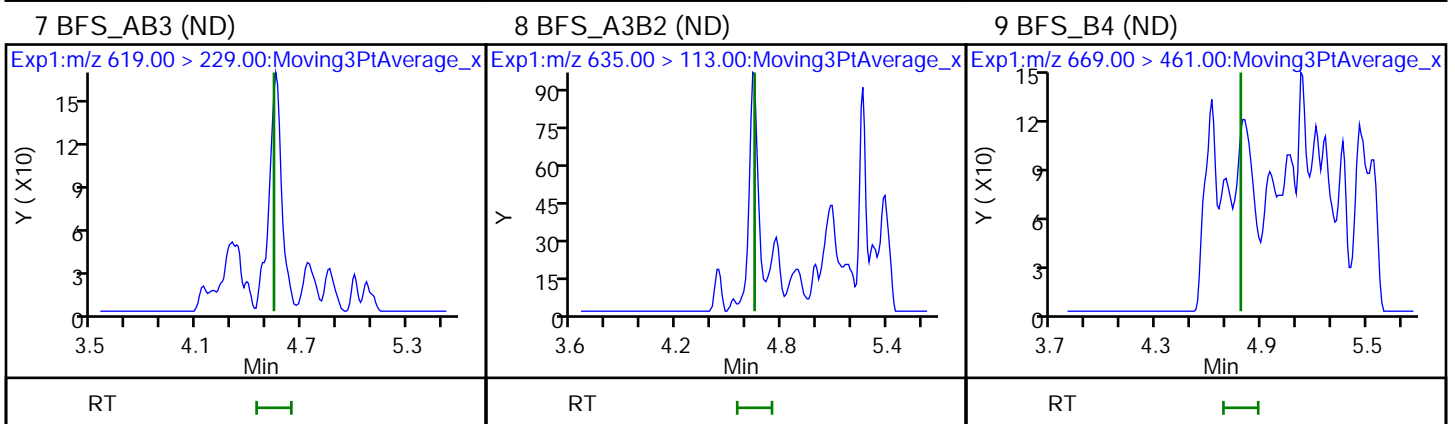
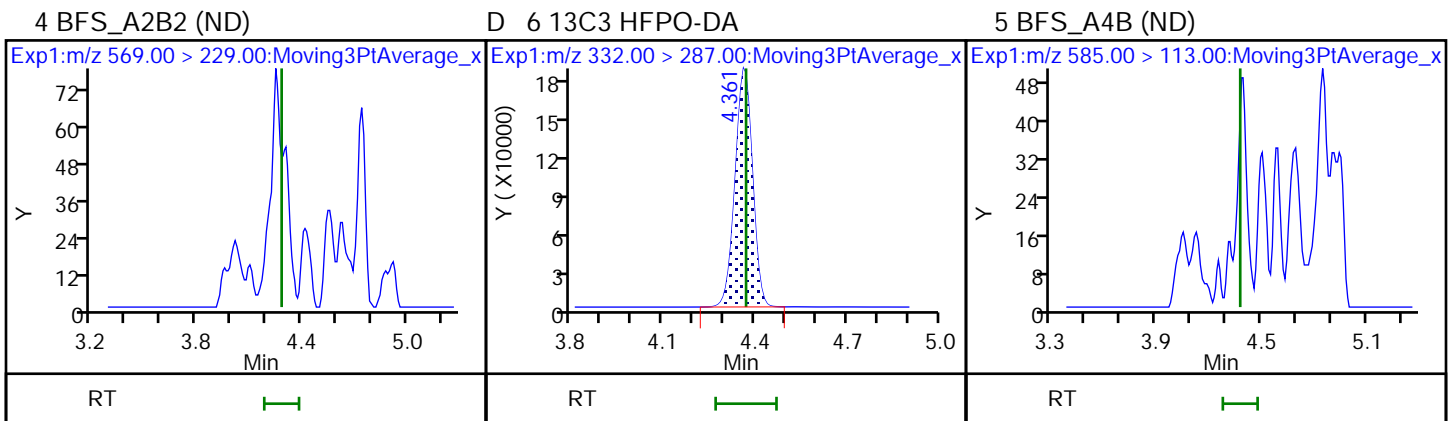
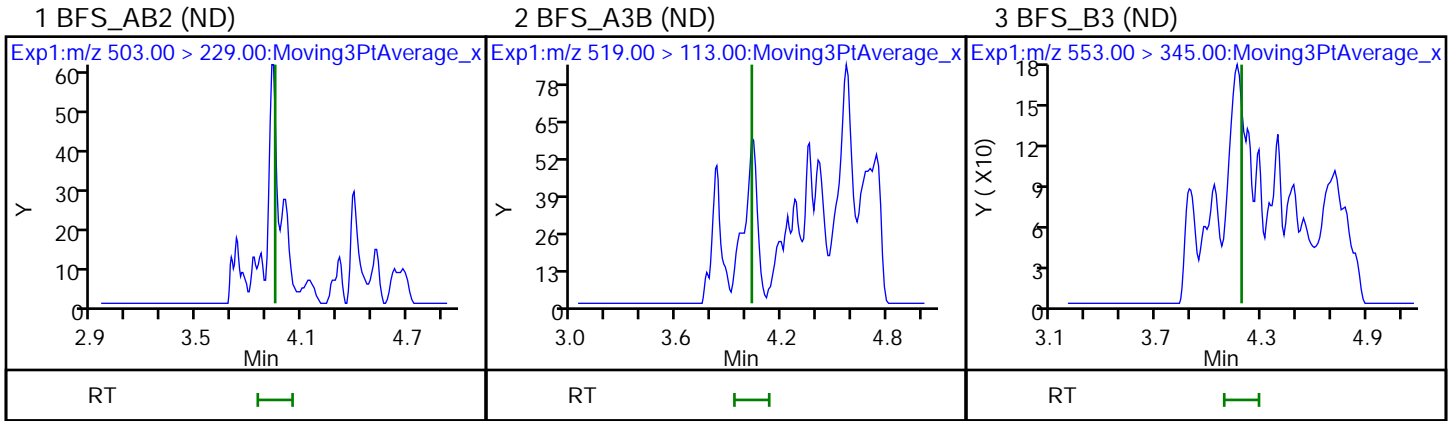
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-65.d
Injection Date: 27-Jul-2022 23:02:15 Instrument ID: 30733
Lims ID: MB 410-277014/1-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 45 Worklist Smp#: 39
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-279955/11

Matrix: Water Lab File ID: 22JUL27BFS-24.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 07/27/2022 13:58

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279955 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	0.112		0.025	0.013
STL02881	BFS_B3	ND		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-24.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 27-Jul-2022 13:58:14 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0062779-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 06:39:03 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 06:34:09
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.369	-0.006	0.878	778308	4.93	98.5	3120
7 BFS_AB3									M
619.00 > 229.00	4.543	4.542	0.001	1.041	12357	0.1116		32.4	M
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.977	-0.009		3524854	5.00		3940

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-24.d

Injection Date: 27-Jul-2022 13:58:14

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

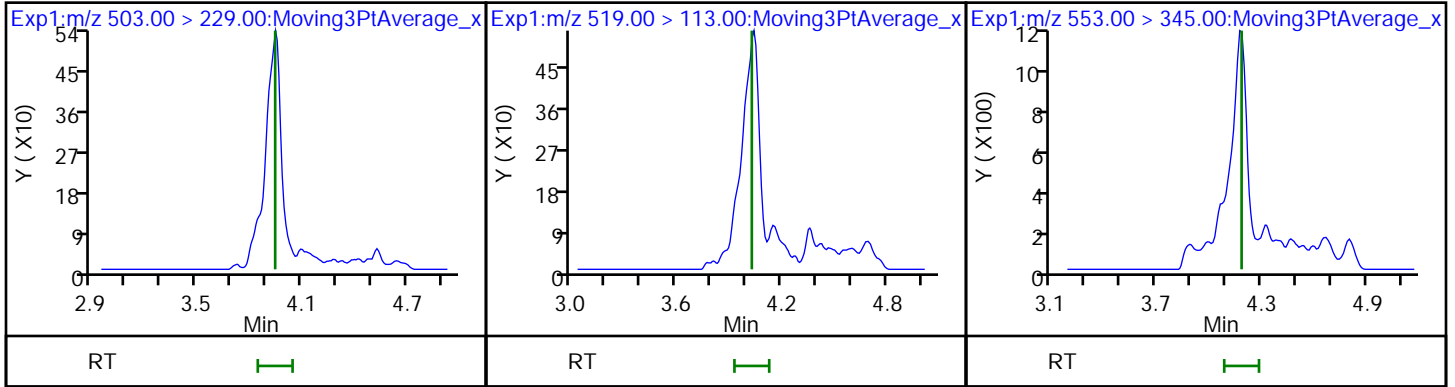
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

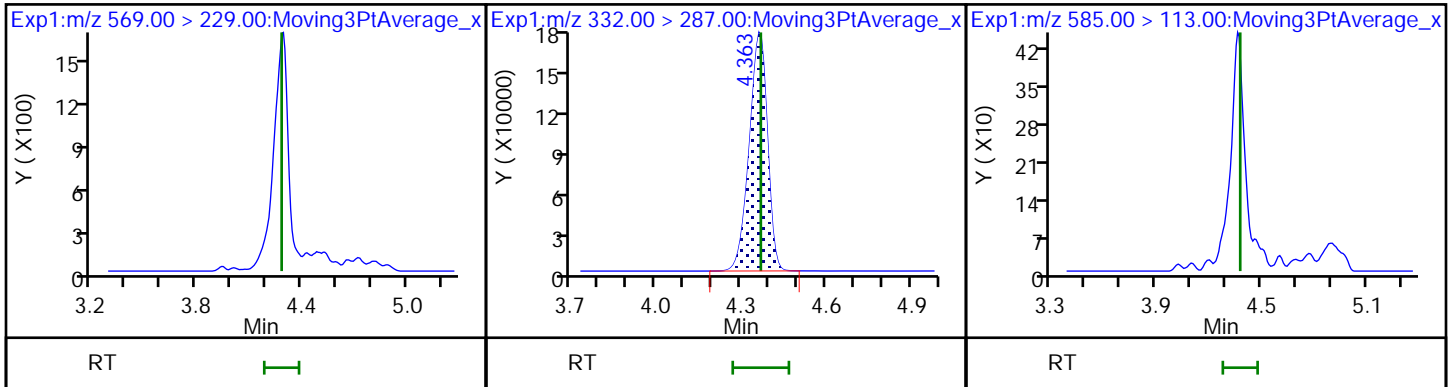
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

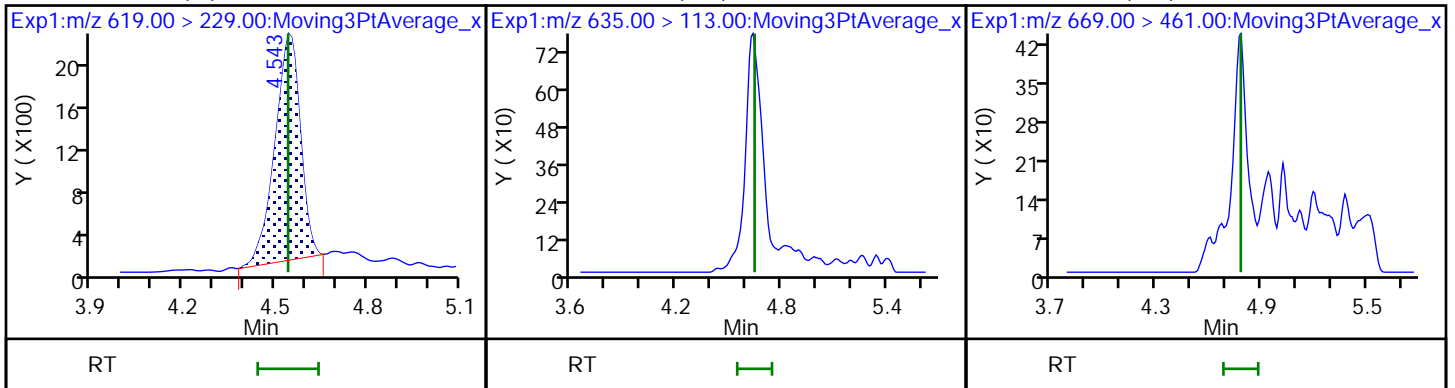
5 BFS_A4B (ND)



7 BFS_AB3 (M)

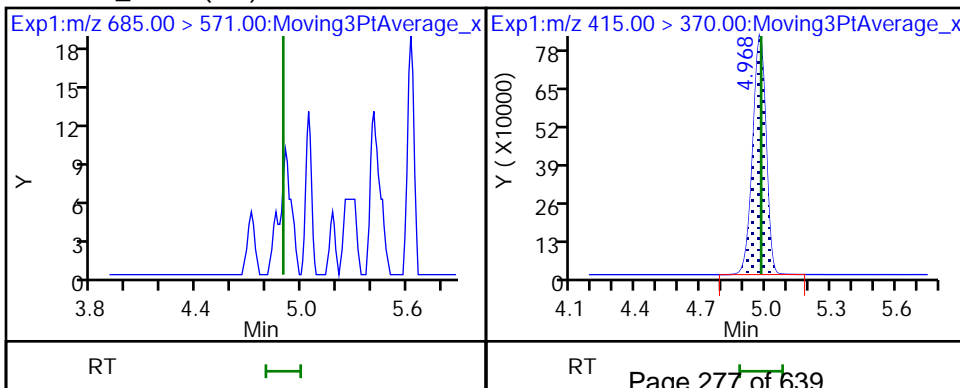
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

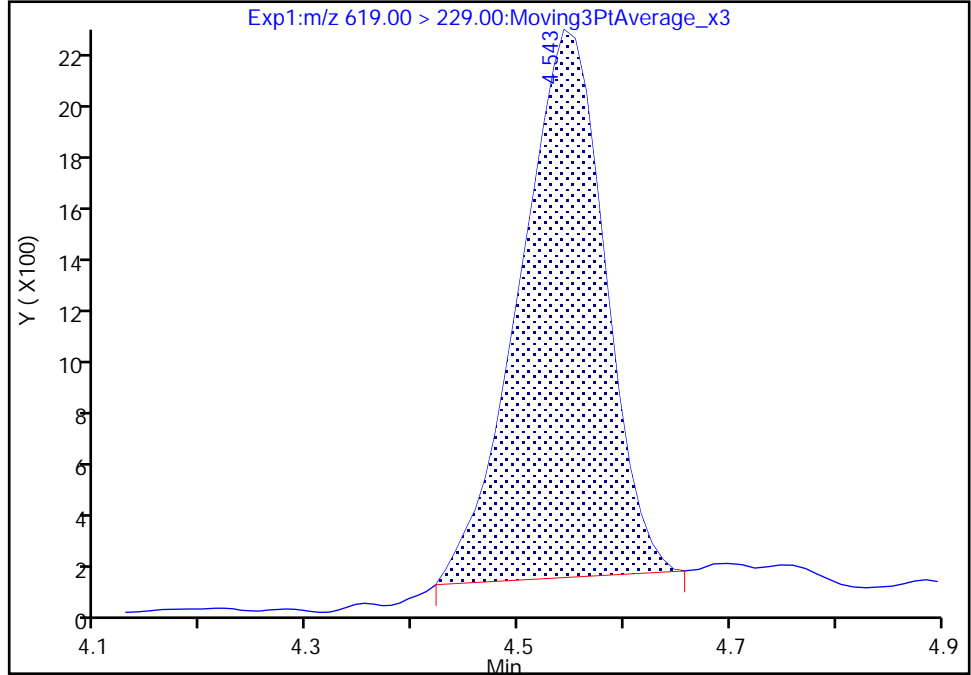
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Injection Date: 27-Jul-2022 13:58:14 Instrument ID: 30733
Lims ID: ICB
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 1 Worklist Smp#: 11
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

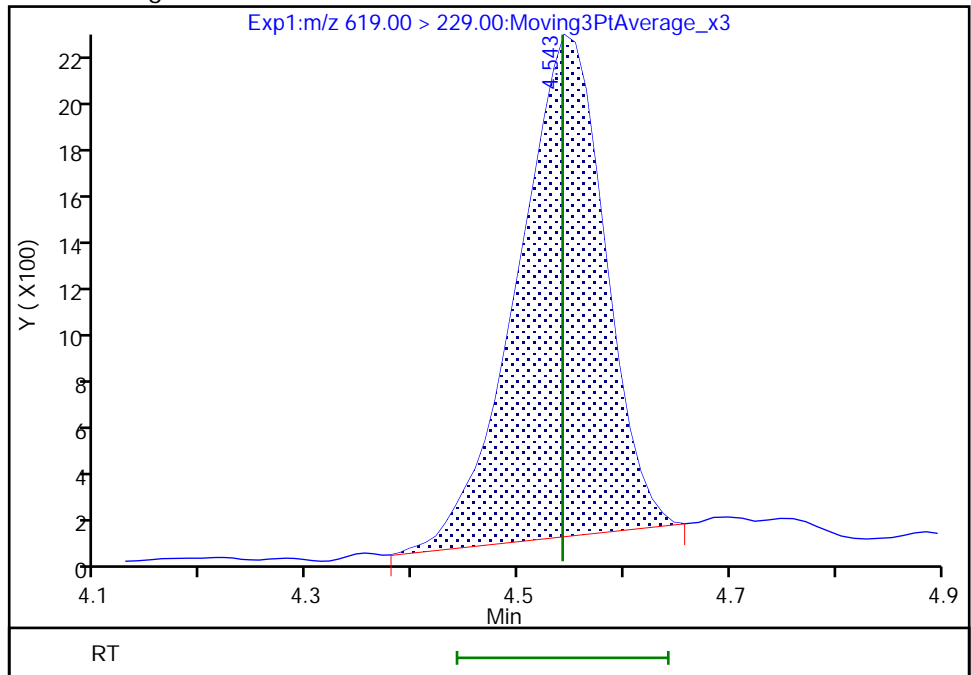
RT: 4.54
Area: 11859
Amount: 0.107879
Amount Units: ng/ml

Processing Integration Results



RT: 4.54
Area: 12357
Amount: 0.111607
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 28-Jul-2022 06:34:04
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 278 of 639

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-277007/2-A

Matrix: Water Lab File ID: 22JUL27BFS-52.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:26

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 20:17

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	258		1.4	0.40
STL02887	BFS_A2B3	4.57		1.1	0.40
STL02880	BFS_A3B	36.8		0.60	0.20
STL02885	BFS_A3B2	49.8		0.80	0.20
STL02883	BFS_A4B	21.1		0.40	0.20
STL02879	BFS_AB2	35.5		0.60	0.080
STL02884	BFS_AB3	285		1.5	0.40
STL02881	BFS_B3	127		0.70	0.30
STL02886	BFS_B4	65.2		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-52.d
 Lims ID: LCS 410-277007/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Jul-2022 20:17:24 ALS Bottle#: 34 Worklist Smp#: 26
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-277007/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-026
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:31:57

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.942	3.949	-0.007	0.905	2449278	8.88	111	18908
2 BFS_A3B	519.00 > 113.00	4.023	4.029	-0.006	0.923	2707924	9.21	103	1115
3 BFS_B3	553.00 > 345.00	4.177	4.186	-0.009	0.959	4547776	31.7	111	1409
4 BFS_A2B2	569.00 > 229.00	4.281	4.286	-0.005	0.983	6473251	64.5	103	5072
D 6 13C3 HFPO-DA	332.00 > 287.00	4.357	4.369	-0.012	0.877	750199	5.15	103	3142
5 BFS_A4B	585.00 > 113.00	4.365	4.378	-0.013	1.002	1666873	5.27	106	2393
7 BFS_AB3	619.00 > 229.00	4.536	4.542	-0.006	1.041	8938826	71.2	106	9070
8 BFS_A3B2	635.00 > 113.00	4.639	4.645	-0.006	1.065	3003567	12.5	106	2482
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.098	1273256	16.3	105	1932
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.124	8533	1.14	96.9	190
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.977	-0.009		3249089	5.00		3024

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-52.d

Injection Date: 27-Jul-2022 20:17:24

Instrument ID: 30733

Lims ID: LCS 410-277007/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 34

Worklist Smp#: 26

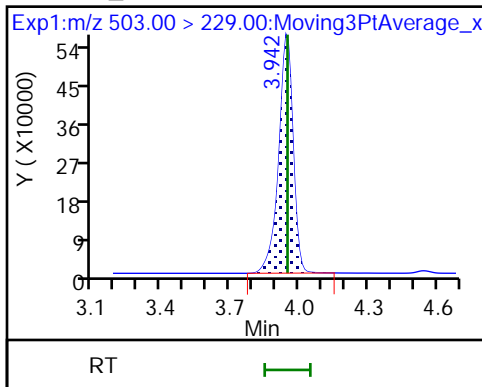
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

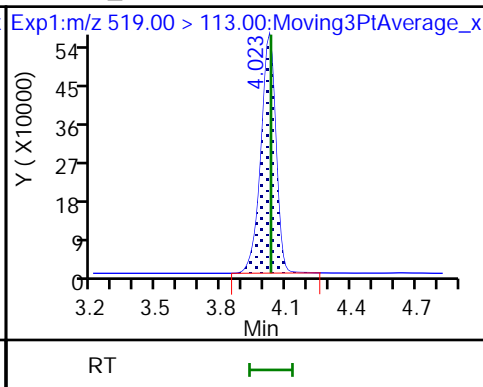
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

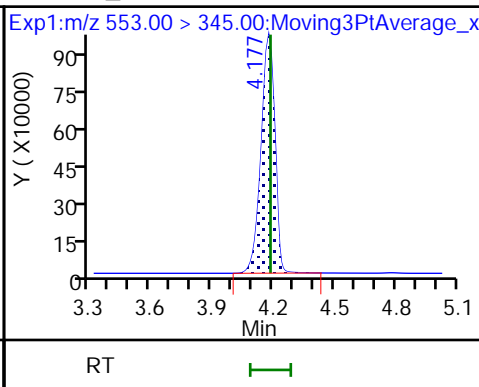
1 BFS_AB2



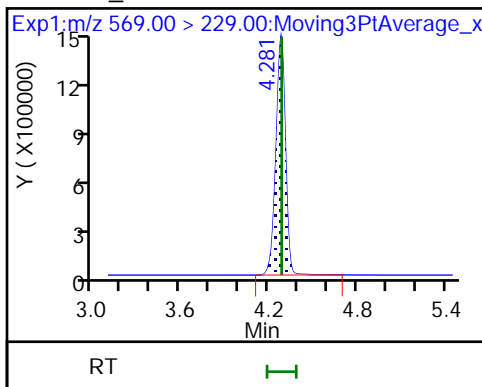
2 BFS_A3B



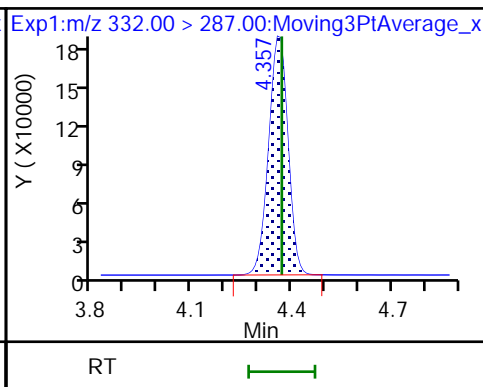
3 BFS_B3



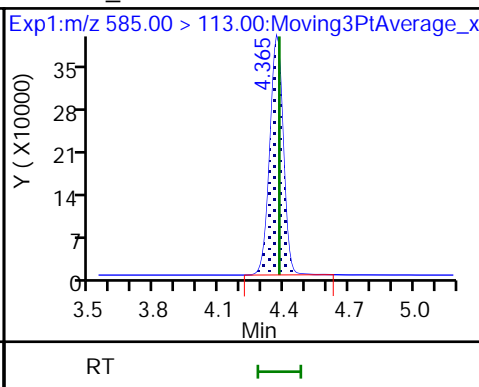
4 BFS_A2B2



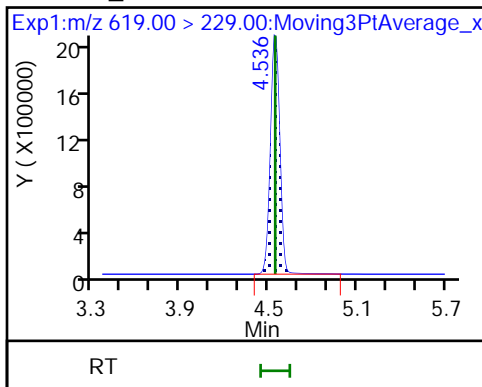
D 6 13C3 HFPO-DA



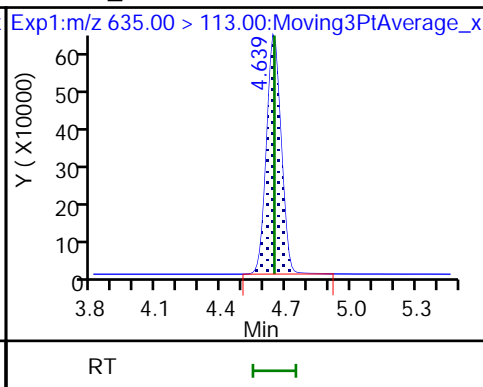
5 BFS_A4B



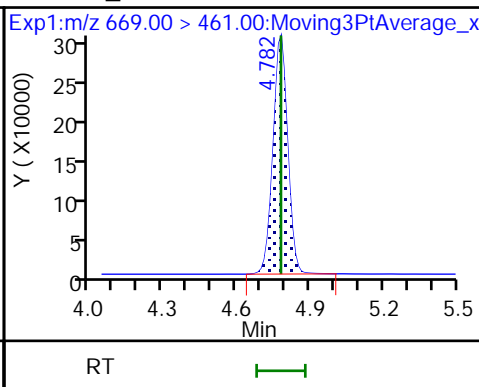
7 BFS_AB3



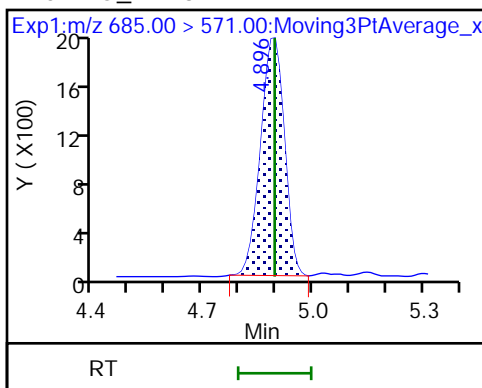
8 BFS_A3B2



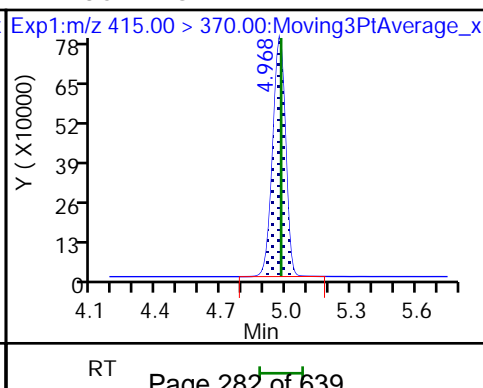
9 BFS_B4



10 BFS_A2B3



* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-277008/2-A

Matrix: Water Lab File ID: 22JUL27BFS-39.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 17:33

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	248		1.4	0.40
STL02887	BFS_A2B3	4.68		1.1	0.40
STL02880	BFS_A3B	35.4		0.60	0.20
STL02885	BFS_A3B2	48.5		0.80	0.20
STL02883	BFS_A4B	20.6		0.40	0.20
STL02879	BFS_AB2	33.7		0.60	0.080
STL02884	BFS_AB3	277		1.5	0.40
STL02881	BFS_B3	118		0.70	0.30
STL02886	BFS_B4	62.2		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-150

Euromins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-39.d
 Lims ID: LCS 410-277008/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Jul-2022 17:33:40 ALS Bottle#: 22 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-277008/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:10 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631
 First Level Reviewer: JVK6 Date: 28-Jul-2022 07:52:51
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.950	3.949	0.001	0.904	2456321	8.42	105	22038
2 BFS_A3B	519.00 > 113.00	4.031	4.029	0.002	0.922	2757054	8.86	98.9	1310
3 BFS_B3	553.00 > 345.00	4.187	4.186	0.001	0.958	4471441	29.4	103	1653
4 BFS_A2B2	569.00 > 229.00	4.296	4.286	0.010	0.983	6573151	61.9	99.1	3940
D 6 13C3 HFPO-DA	332.00 > 287.00	4.371	4.369	0.002	0.878	793595	5.12	102	3654
5 BFS_A4B	585.00 > 113.00	4.379	4.378	0.001	1.002	1721138	5.14	104	2192
7 BFS_AB3	619.00 > 229.00	4.554	4.542	0.012	1.042	9192571	69.2	103	8183
8 BFS_A3B2	635.00 > 113.00	4.657	4.645	0.012	1.066	3093111	12.1	103	2382
9 BFS_B4	669.00 > 461.00	4.793	4.781	0.012	1.097	1285705	15.6	99.9	1931
10 BFS_A2B3	685.00 > 571.00	4.897	4.895	0.002	1.120	9239	1.17	99.2	202
* 11 13C2 PFOA	415.00 > 370.00	4.978	4.977	0.001		3457534	5.00		4489

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-39.d

Injection Date: 27-Jul-2022 17:33:40

Instrument ID: 30733

Lims ID: LCS 410-277008/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 13

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

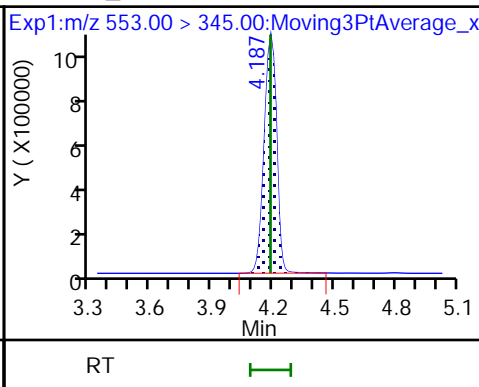
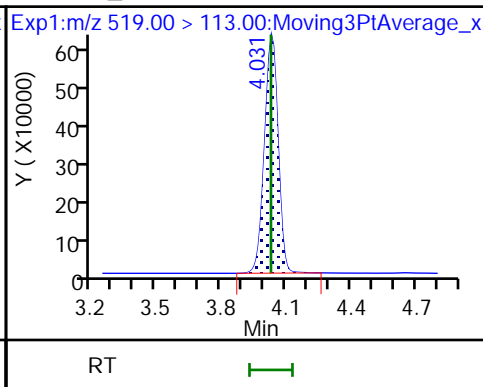
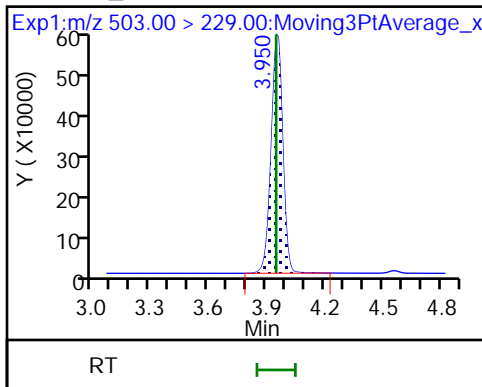
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

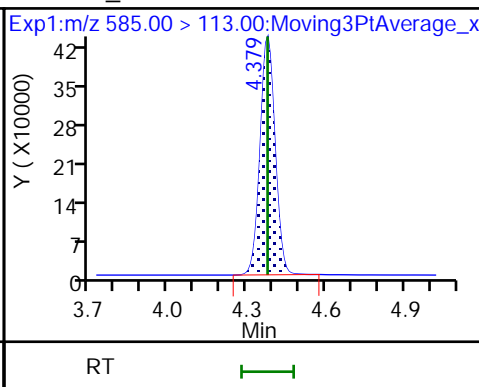
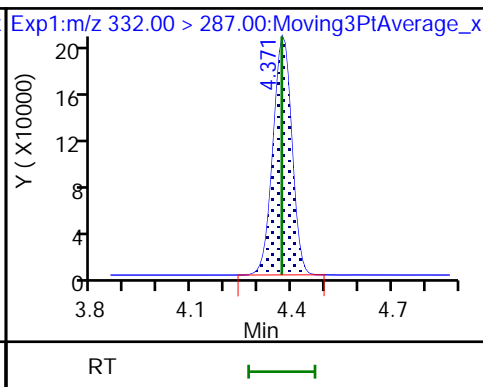
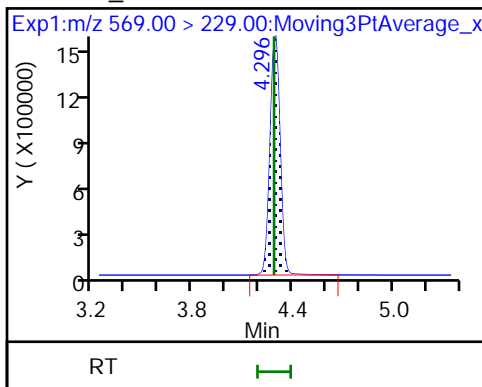
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

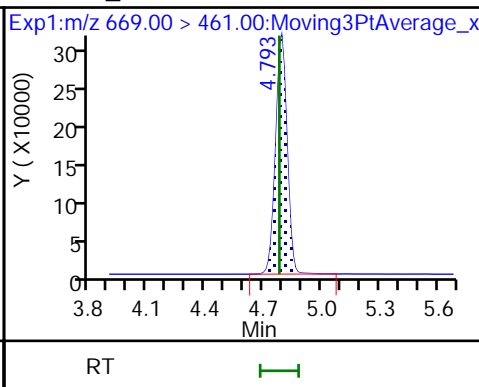
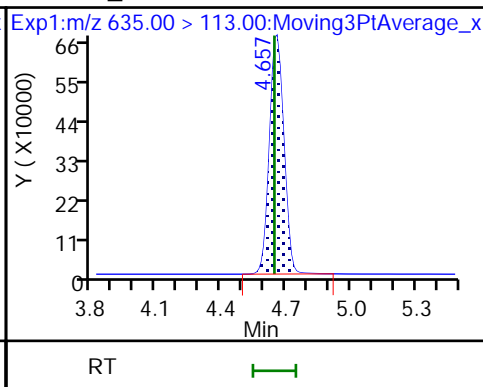
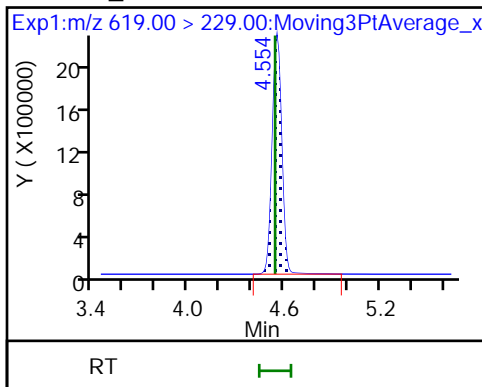
5 BFS_A4B



7 BFS_AB3

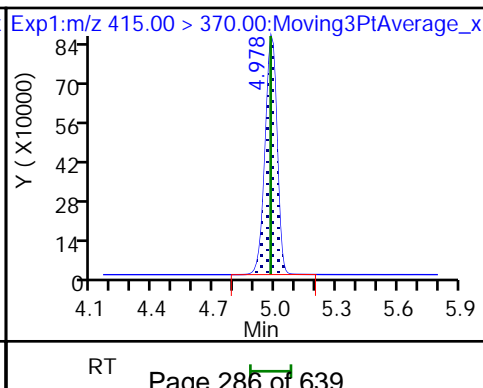
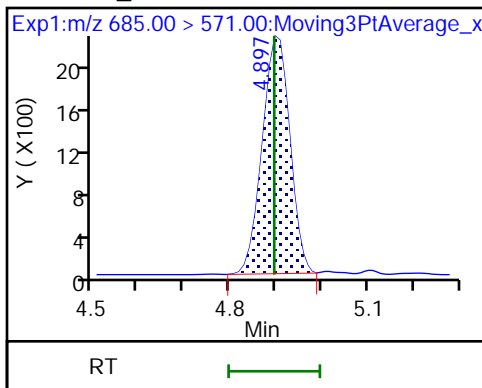
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-277011/2-A

Matrix: Water Lab File ID: 22JUL27BFS-59.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:29

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 21:46

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	263		1.4	0.40
STL02887	BFS_A2B3	4.35		1.1	0.40
STL02880	BFS_A3B	35.8		0.60	0.20
STL02885	BFS_A3B2	51.2		0.80	0.20
STL02883	BFS_A4B	21.4		0.40	0.20
STL02879	BFS_AB2	32.7		0.60	0.080
STL02884	BFS_AB3	281		1.5	0.40
STL02881	BFS_B3	124		0.70	0.30
STL02886	BFS_B4	66.9		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-59.d
 Lims ID: LCS 410-277011/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Jul-2022 21:46:44 ALS Bottle#: 40 Worklist Smp#: 33
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-277011/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-033
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:56 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:35:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.948	3.949	-0.001	0.904	2149906	8.17	102	17606
2 BFS_A3B	519.00 > 113.00	4.029	4.029	0.0	0.922	2512429	8.95	99.9	1140
3 BFS_B3	553.00 > 345.00	4.185	4.186	-0.001	0.958	4265431	31.1	109	1418
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.981	6299983	65.8	105	7271
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.878	716063	4.93	98.6	2832
5 BFS_A4B	585.00 > 113.00	4.377	4.378	-0.001	1.002	1616379	5.35	108	1982
7 BFS_AB3	619.00 > 229.00	4.552	4.542	0.010	1.042	8432269	70.4	105	7744
8 BFS_A3B2	635.00 > 113.00	4.645	4.645	0.0	1.063	2946044	12.8	109	2246
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.094	1246623	16.7	107	1832
10 BFS_A2B3	685.00 > 571.00	4.895	4.895	0.0	1.120	7759	1.09	92.2	220
* 11 13C2 PFOA	415.00 > 370.00	4.976	4.977	-0.001		3239707	5.00		3185

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-59.d

Injection Date: 27-Jul-2022 21:46:44

Instrument ID: 30733

Lims ID: LCS 410-277011/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 40

Worklist Smp#: 33

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

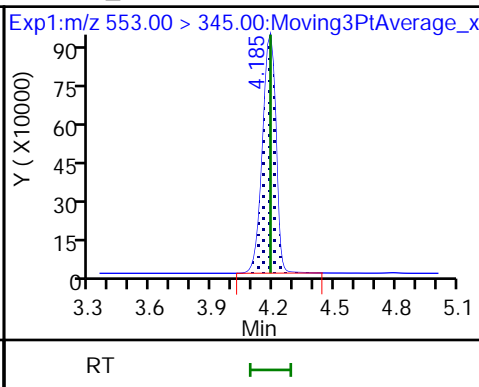
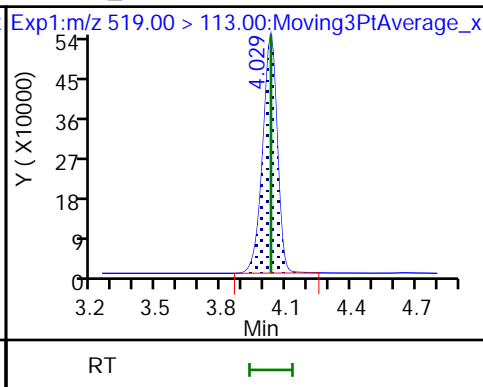
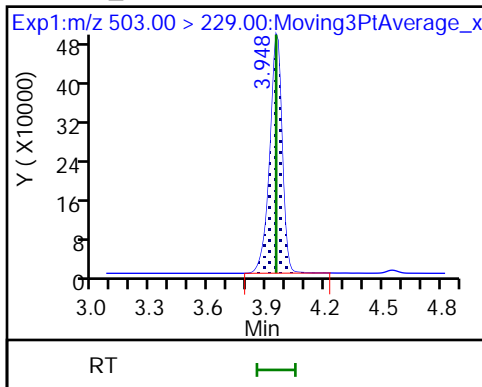
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

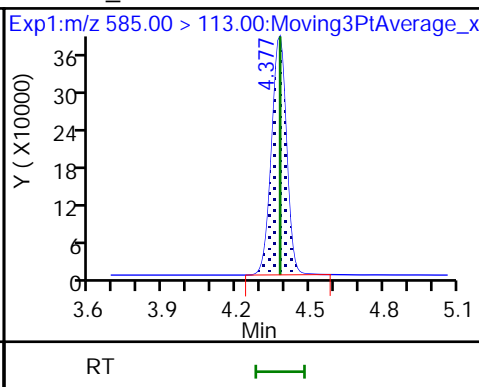
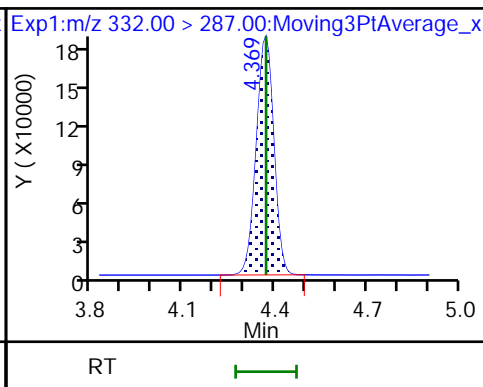
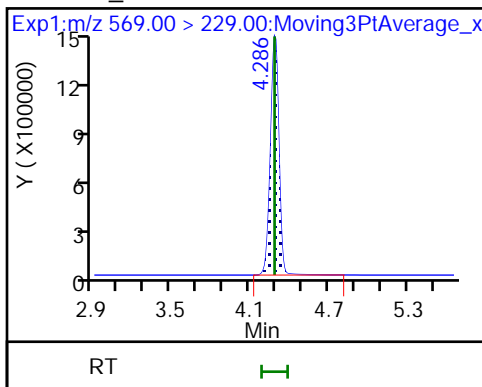
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

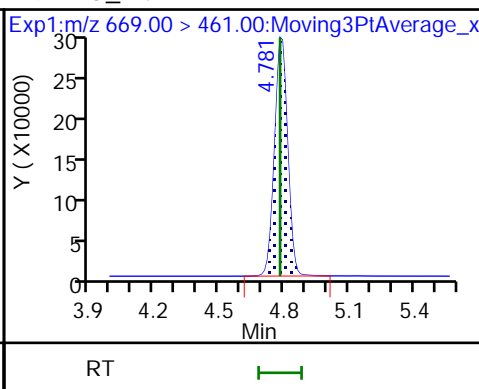
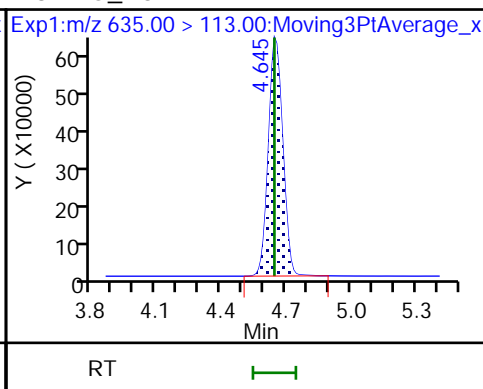
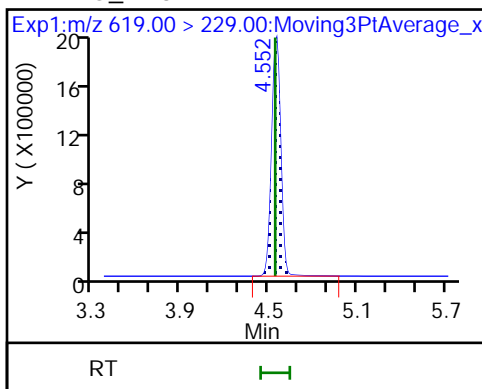
5 BFS_A4B



7 BFS_AB3

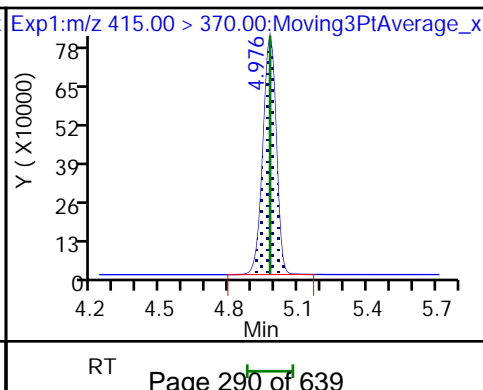
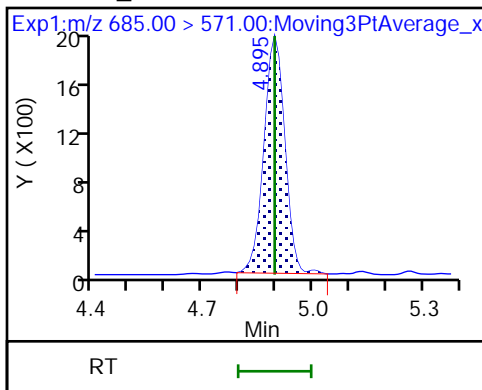
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-277013/2-A

Matrix: Water Lab File ID: 22JUL27BFS-77.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:33

Sample wt/vol: 250 (mL) Date Analyzed: 07/28/2022 01:34

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	251		1.4	0.40
STL02887	BFS_A2B3	4.41		1.1	0.40
STL02880	BFS_A3B	35.7		0.60	0.20
STL02885	BFS_A3B2	49.1		0.80	0.20
STL02883	BFS_A4B	20.7		0.40	0.20
STL02879	BFS_AB2	31.5		0.60	0.080
STL02884	BFS_AB3	271		1.5	0.40
STL02881	BFS_B3	120		0.70	0.30
STL02886	BFS_B4	61.3		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-77.d
 Lims ID: LCS 410-277013/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Jul-2022 01:34:56 ALS Bottle#: 2 Worklist Smp#: 51
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-277013/2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0062810-051
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:46 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:37:14
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.953	3.949	0.004	0.905	2341306	7.87	98.2	16702
2 BFS_A3B	519.00 > 113.00	4.024	4.029	-0.005	0.922	2832188	8.92	99.6	1179
3 BFS_B3	553.00 > 345.00	4.179	4.186	-0.007	0.957	4641809	29.9	105	1755
4 BFS_A2B2	569.00 > 229.00	4.292	4.286	0.006	0.983	6799642	62.8	101	2374
D 6 13C3 HFPO-DA	332.00 > 287.00	4.367	4.369	-0.002	0.878	809687	5.03	101	3328
5 BFS_A4B	585.00 > 113.00	4.375	4.378	-0.003	1.002	1765572	5.17	104	1872
7 BFS_AB3	619.00 > 229.00	4.547	4.542	0.005	1.041	9197991	67.8	101	9995
8 BFS_A3B2	635.00 > 113.00	4.651	4.645	0.006	1.065	3197004	12.3	104	2325
9 BFS_B4	669.00 > 461.00	4.787	4.781	0.006	1.096	1291784	15.3	98.4	2195
10 BFS_A2B3	685.00 > 571.00	4.890	4.895	-0.005	1.120	8887	1.10	93.4	272
* 11 13C2 PFOA	415.00 > 370.00	4.972	4.977	-0.005		3591784	5.00		3086

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File:

\\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-77.d

Injection Date:

28-Jul-2022 01:34:56

Instrument ID:

30733

Lims ID:

LCS 410-277013/2-A

Client ID:

Operator ID:

US19_USR_INS20260

ALS Bottle#:

2

Worklist Smp#:

51

Injection Vol:

10.0 ul

Dil. Factor:

1.0000

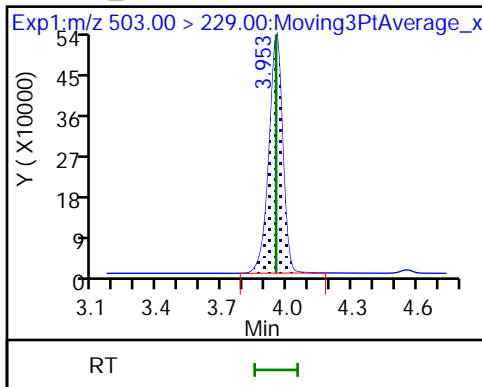
Method:

BFS_IDA_30733

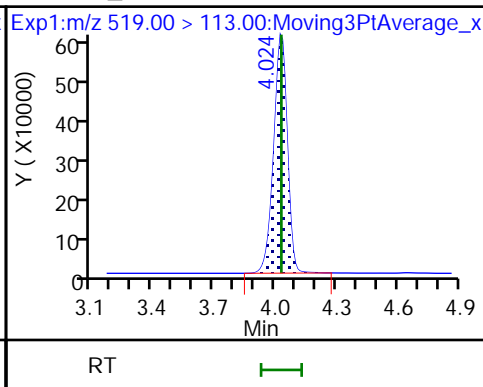
Limit Group:

LC - BFS_IDA

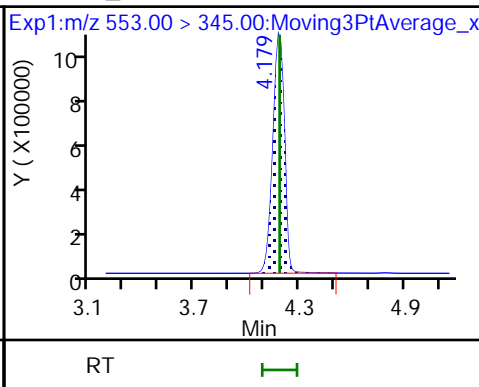
1 BFS_AB2



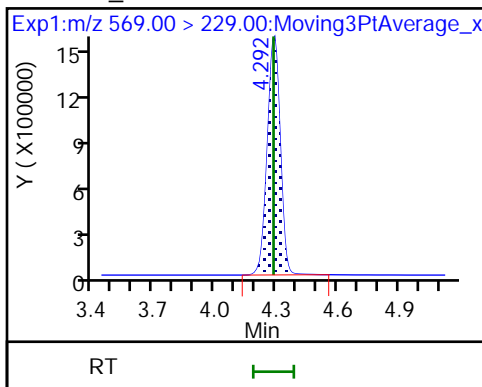
2 BFS_A3B



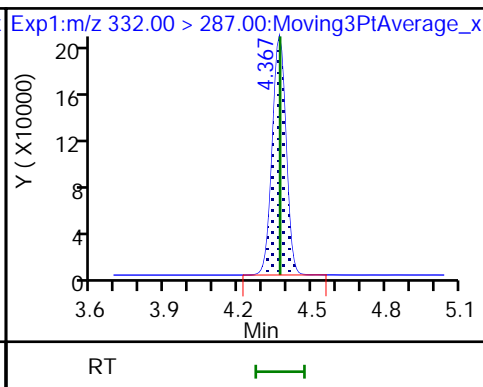
3 BFS_B3



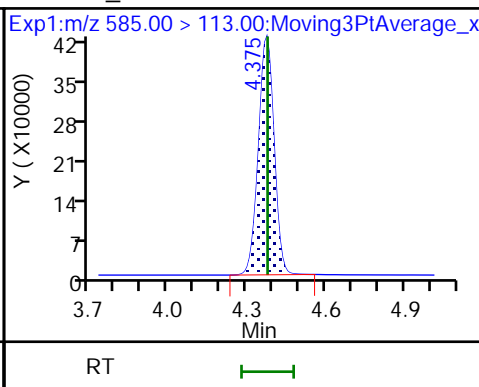
4 BFS_A2B2



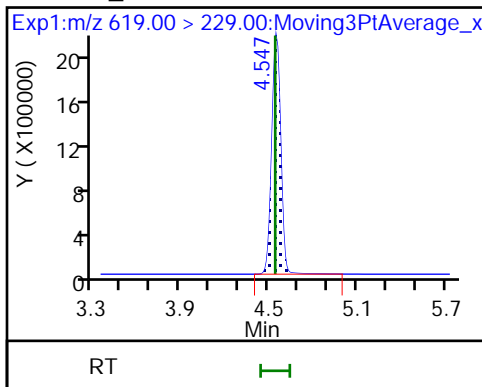
D 6 13C3 HFPO-DA



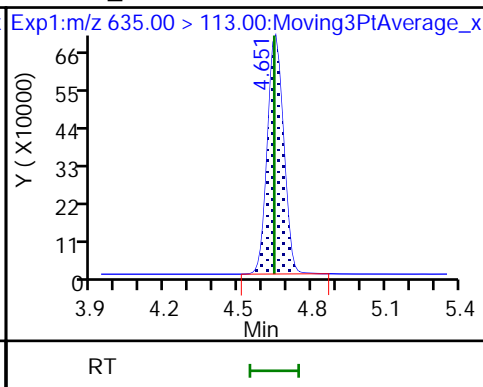
5 BFS_A4B



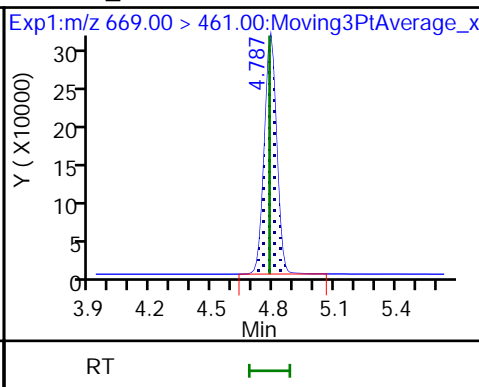
7 BFS_AB3



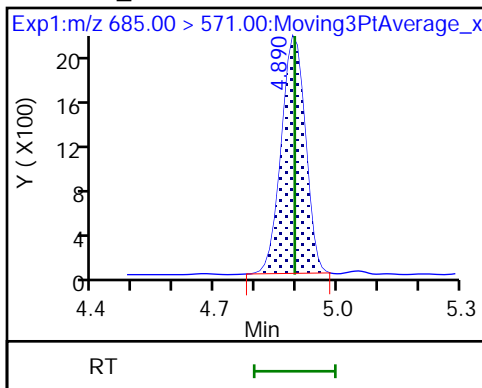
8 BFS_A3B2



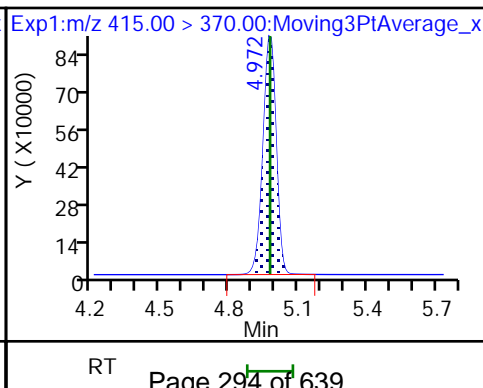
9 BFS_B4



10 BFS_A2B3



* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-277014/2-A

Matrix: Water Lab File ID: 22JUL27BFS-66.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 250 (mL) Date Analyzed: 07/27/2022 23:14

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	259		1.4	0.40
STL02887	BFS_A2B3	4.64		1.1	0.40
STL02880	BFS_A3B	35.5		0.60	0.20
STL02885	BFS_A3B2	46.9		0.80	0.20
STL02883	BFS_A4B	20.8		0.40	0.20
STL02879	BFS_AB2	34.1		0.60	0.080
STL02884	BFS_AB3	276		1.5	0.40
STL02881	BFS_B3	119		0.70	0.30
STL02886	BFS_B4	61.1		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-66.d
 Lims ID: LCS 410-277014/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Jul-2022 23:14:49 ALS Bottle#: 46 Worklist Smp#: 40
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-277014/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-040
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:35:49
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.949	0.002	0.905	2556718	8.53	106	19827
2 BFS_A3B	519.00 > 113.00	4.031	4.029	0.002	0.924	2839278	8.88	99.1	944
3 BFS_B3	553.00 > 345.00	4.188	4.186	0.002	0.960	4640906	29.7	104	1202
4 BFS_A2B2	569.00 > 229.00	4.288	4.286	0.002	0.983	7047936	64.6	103	4851
D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.369	-0.006	0.877	815710	5.30	106	2607
5 BFS_A4B	585.00 > 113.00	4.371	4.378	-0.007	1.002	1788533	5.20	105	2193
7 BFS_AB3	619.00 > 229.00	4.544	4.542	0.002	1.041	9433489	69.1	103	9701
8 BFS_A3B2	635.00 > 113.00	4.648	4.645	0.003	1.065	3075486	11.7	99.4	2710
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.096	1297946	15.3	98.2	1353
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.122	9416	1.16	98.4	365
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.977	0.0		3431926	5.00		2964

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-66.d

Injection Date: 27-Jul-2022 23:14:49

Instrument ID: 30733

Lims ID: LCS 410-277014/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 46

Worklist Smp#: 40

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

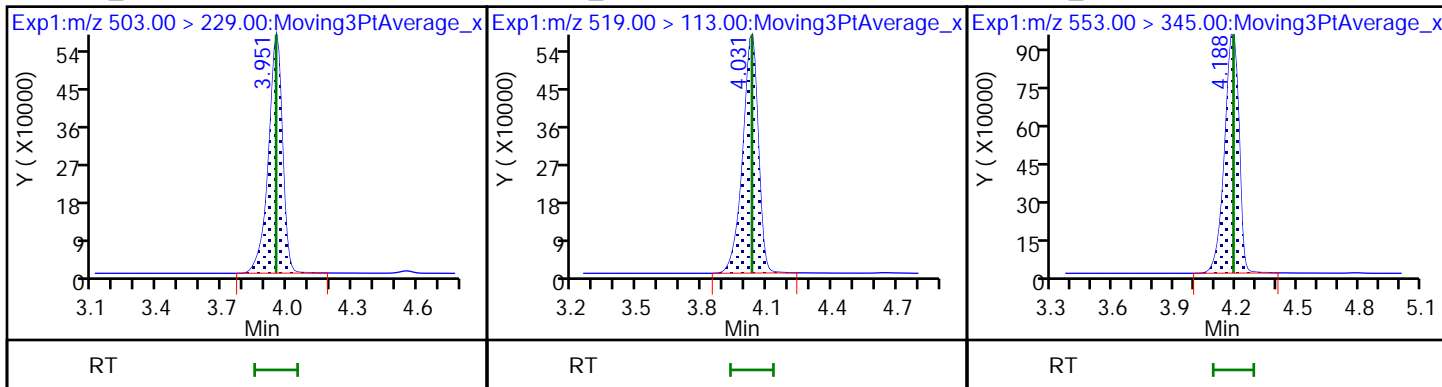
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

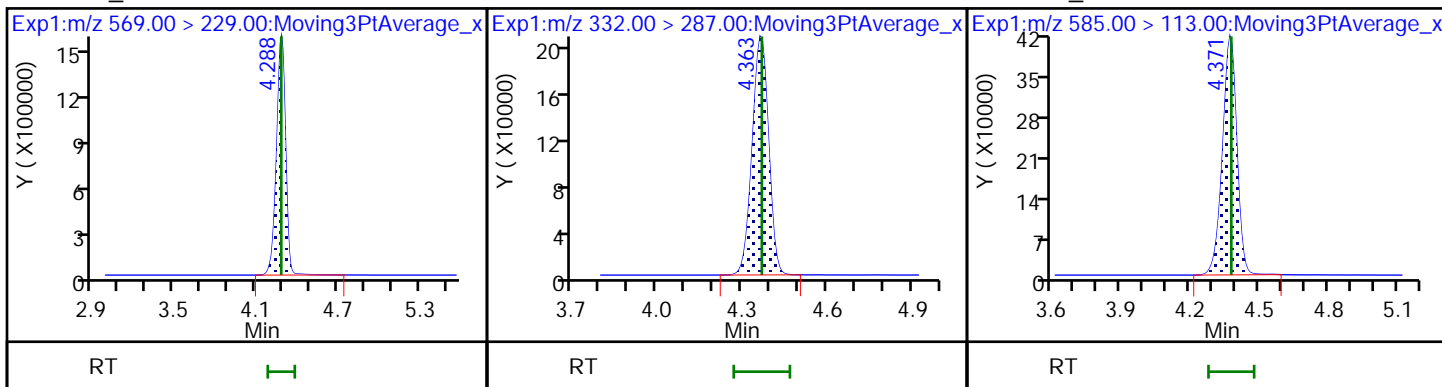
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

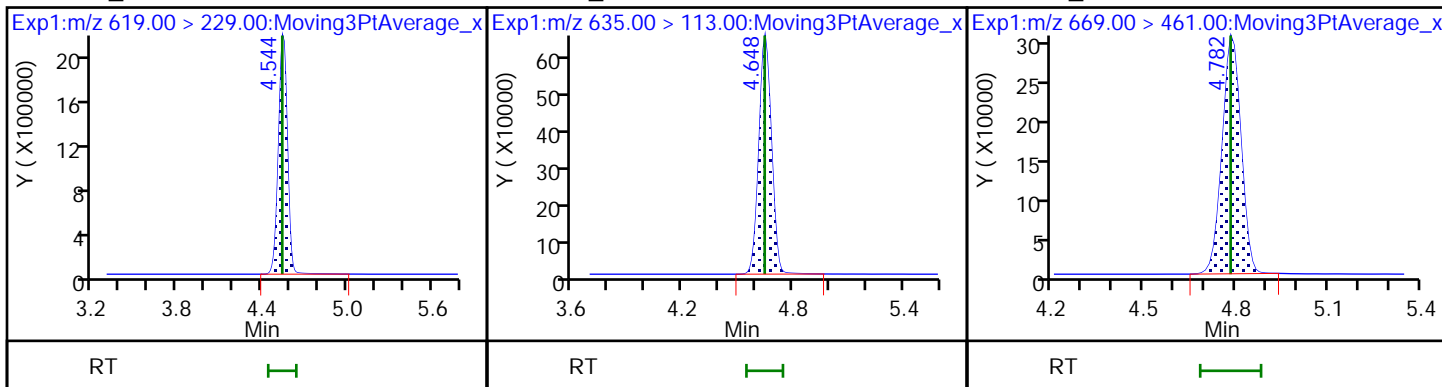
5 BFS_A4B



7 BFS_AB3

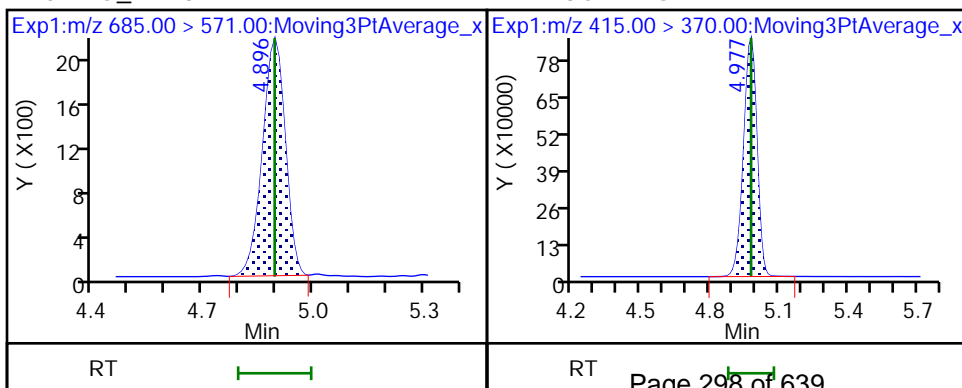
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S_MS MS Lab Sample ID: 410-90323-1 MS

Matrix: Water Lab File ID: 22JUL27BFS-61.d

Analysis Method: BFS Date Collected: 07/06/2022 13:40

Extraction Method: 3535 Date Extracted: 07/19/2022 09:29

Sample wt/vol: 306.3(mL) Date Analyzed: 07/27/2022 22:11

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	332		1.1	0.33
STL02887	BFS_A2B3	4.91		0.90	0.33
STL02880	BFS_A3B	52.9		0.49	0.16
STL02885	BFS_A3B2	57.8		0.65	0.16
STL02883	BFS_A4B	25.8		0.33	0.16
STL02879	BFS_AB2	51.1		0.49	0.065
STL02884	BFS_AB3	314		1.2	0.33
STL02881	BFS_B3	166		0.57	0.24
STL02886	BFS_B4	70.2		0.90	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-61.d
 Lims ID: 410-90323-A-1-B MS
 Client ID: MW-112S_MS
 Sample Type: MS
 Inject. Date: 27-Jul-2022 22:11:55 ALS Bottle#: 42 Worklist Smp#: 35
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-1-B MS
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-035
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:56 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:35:30
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.949	0.012	0.906	4347155	15.7	195	38816
2 BFS_A3B	519.00 > 113.00	4.032	4.029	0.003	0.922	4796946	16.2	181	2062
3 BFS_B3	553.00 > 345.00	4.188	4.186	0.002	0.958	7358471	51.0	179	2621
4 BFS_A2B2	569.00 > 229.00	4.297	4.286	0.010	0.983	10178873	101.7	163	3262
D 6 13C3 HFPO-DA	332.00 > 287.00	4.372	4.369	0.003	0.878	754703	5.66	113	2750
5 BFS_A4B	585.00 > 113.00	4.380	4.378	0.002	1.002	2515245	7.90	160	2826
7 BFS_AB3	619.00 > 229.00	4.554	4.542	0.012	1.042	12024620	96.1	144	12233
8 BFS_A3B2	635.00 > 113.00	4.658	4.645	0.013	1.066	4270356	17.7	150	5568
9 BFS_B4	669.00 > 461.00	4.793	4.781	0.012	1.096	1685089	21.5	138	3638
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.120	11261	1.51	128	247
* 11 13C2 PFOA	415.00 > 370.00	4.978	4.977	0.001		2977114	5.00		2391

QC Flag Legend
 Processing Flags

Reagents:

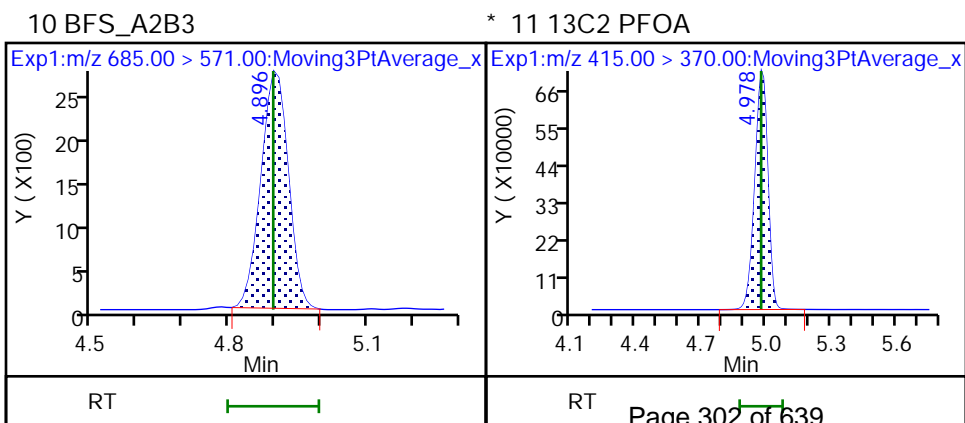
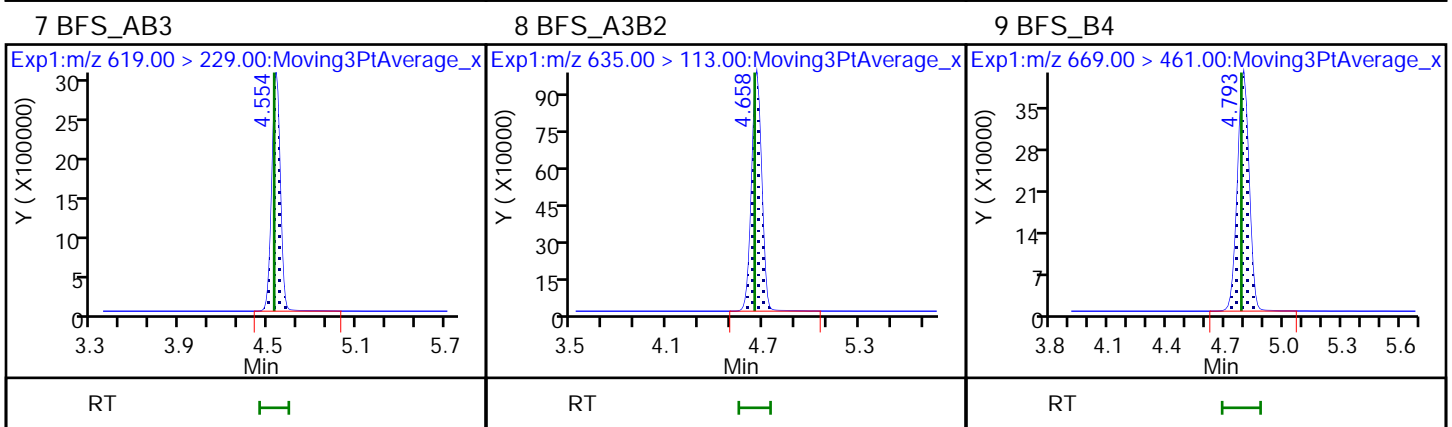
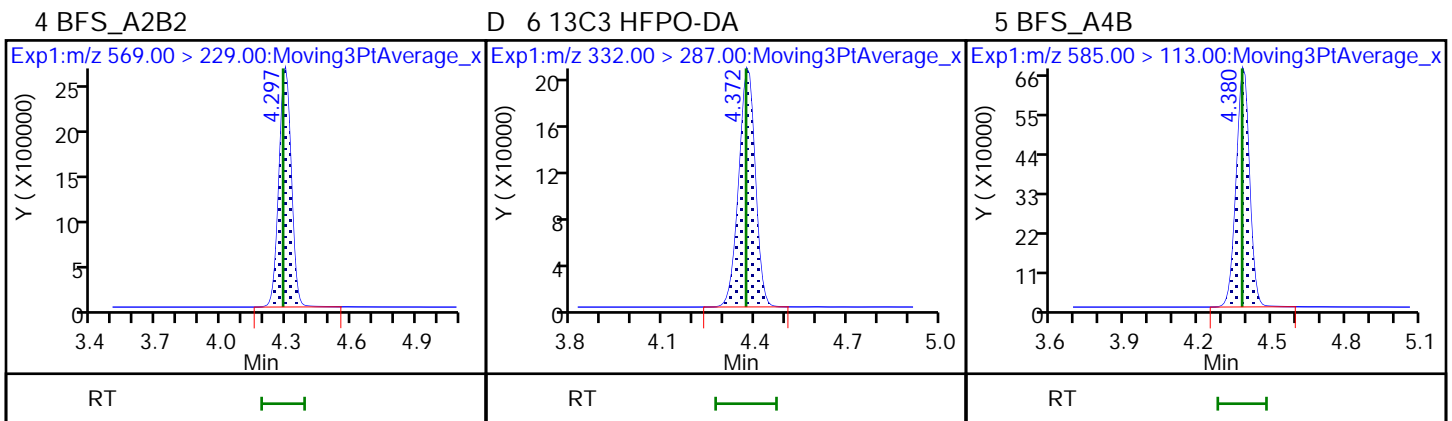
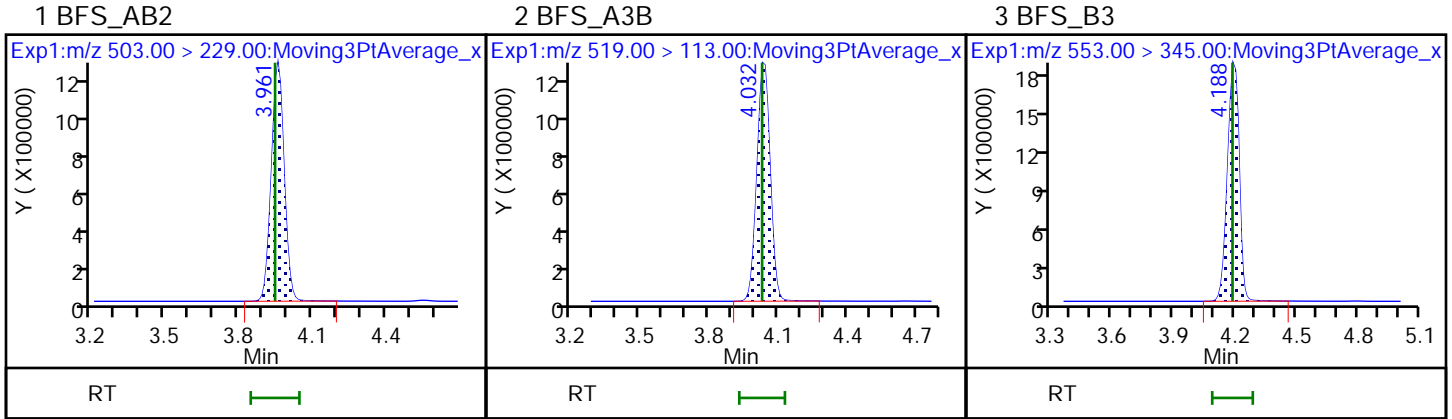
PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-61.d
Injection Date: 27-Jul-2022 22:11:55 Instrument ID: 30733
Lims ID: 410-90323-A-1-B MS
Client ID: MW-112S_MS
Operator ID: US19_USR_INS20260 ALS Bottle#: 42 Worklist Smp#: 35
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112D_MS MS Lab Sample ID: 410-90323-2 MS

Matrix: Water Lab File ID: 22JUL27BFS-68.d

Analysis Method: BFS Date Collected: 07/06/2022 15:30

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 284.9(mL) Date Analyzed: 07/27/2022 23:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	476		1.2	0.35
STL02887	BFS_A2B3	6.93		0.97	0.35
STL02880	BFS_A3B	69.0		0.53	0.18
STL02885	BFS_A3B2	80.1		0.70	0.18
STL02883	BFS_A4B	37.4		0.35	0.18
STL02879	BFS_AB2	66.1		0.53	0.070
STL02884	BFS_AB3	458		1.3	0.35
STL02881	BFS_B3	235		0.61	0.26
STL02886	BFS_B4	107		0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-68.d
 Lims ID: 410-90323-A-2-B MS
 Client ID: MW-112D_MS
 Sample Type: MS
 Inject. Date: 27-Jul-2022 23:39:58 ALS Bottle#: 48 Worklist Smp#: 42
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-2-B MS
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-042
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:36:02
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.949	0.002	0.904	4489125	18.8	235	44744
2 BFS_A3B	519.00 > 113.00	4.031	4.029	0.002	0.922	4989716	19.6	219	2108
3 BFS_B3	553.00 > 345.00	4.188	4.186	0.002	0.958	8293072	66.9	235	3718
4 BFS_A2B2	569.00 > 229.00	4.288	4.286	0.002	0.981	11558825	135.6	217	9586
D 6 13C3 HFPO-DA	332.00 > 287.00	4.371	4.369	0.002	0.878	647476	4.62	92.3	2390
5 BFS_A4B	585.00 > 113.00	4.371	4.378	-0.007	1.000	2909757	10.6	215	3773
7 BFS_AB3	619.00 > 229.00	4.554	4.542	0.012	1.042	13823486	130.4	195	7503
8 BFS_A3B2	635.00 > 113.00	4.647	4.645	0.002	1.063	4702647	22.8	194	3363
9 BFS_B4	669.00 > 461.00	4.782	4.781	0.001	1.094	2040450	30.5	196	3719
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.120	12634	1.97	168	423
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.977	0.0		3129942	5.00		2659

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-68.d

Injection Date: 27-Jul-2022 23:39:58

Instrument ID: 30733

Lims ID: 410-90323-A-2-B MS

Client ID: MW-112D_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 48

Worklist Smp#: 42

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

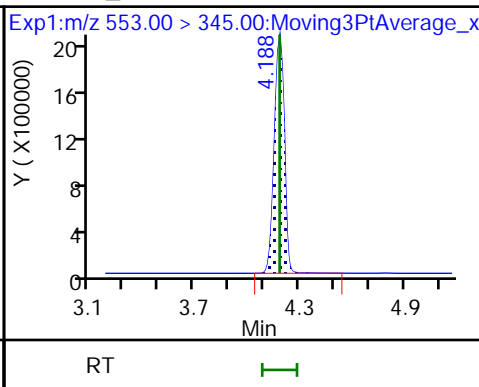
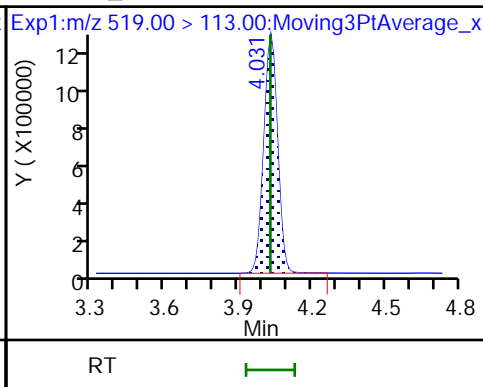
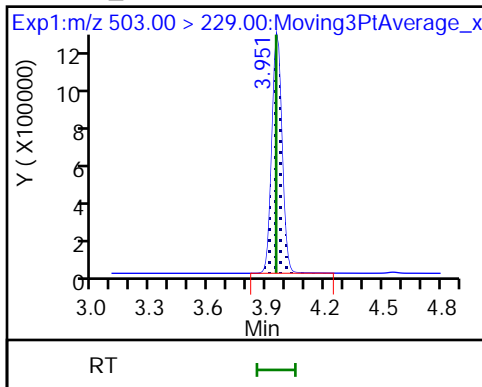
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

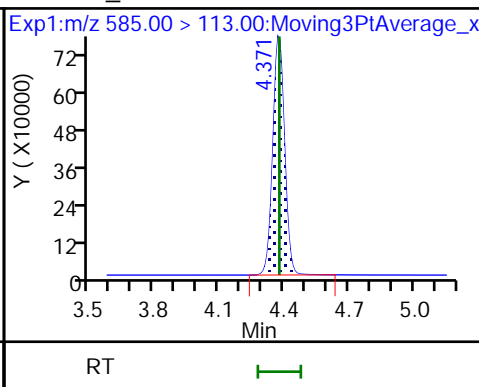
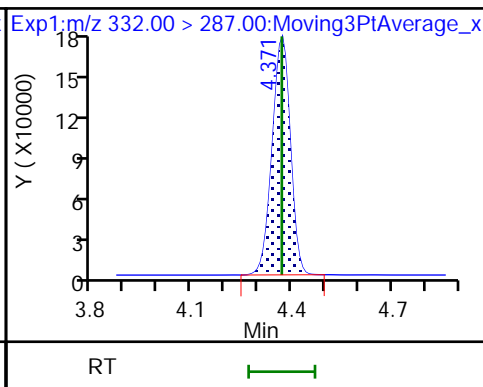
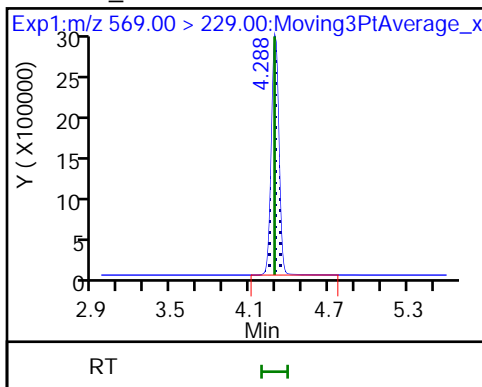
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

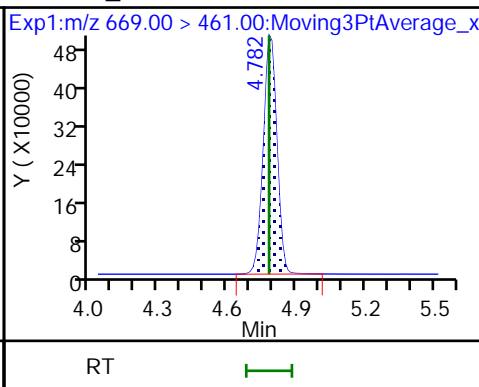
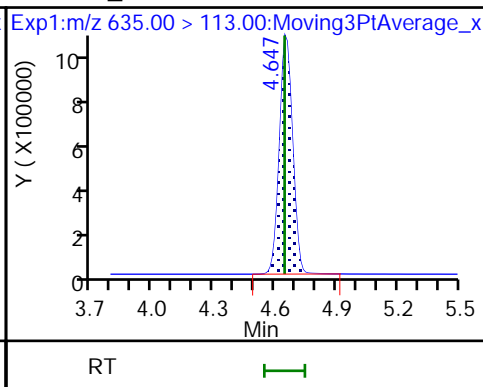
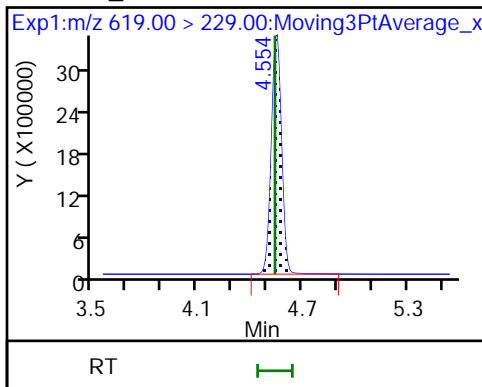
5 BFS_A4B



7 BFS_AB3

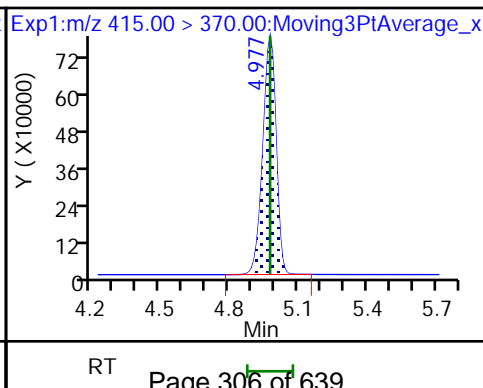
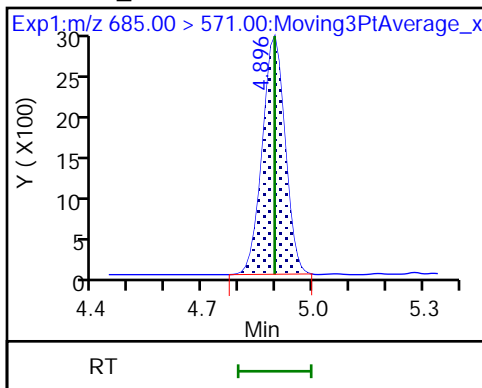
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Client Sample ID: MW-106D_MS MS

Lab Sample ID: 410-90323-7 MS

Matrix: Water

Lab File ID: 22JUL27BFS-54.d

Analysis Method: BFS

Date Collected: 07/07/2022 11:25

Extraction Method: 3535

Date Extracted: 07/19/2022 09:26

Sample wt/vol: 286.7(mL)

Date Analyzed: 07/27/2022 20:43

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 280078

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	519		1.2	0.35
STL02887	BFS_A2B3	8.23		0.96	0.35
STL02880	BFS_A3B	72.4		0.52	0.17
STL02885	BFS_A3B2	86.0		0.70	0.17
STL02883	BFS_A4B	39.1		0.35	0.17
STL02879	BFS_AB2	69.3		0.52	0.070
STL02884	BFS_AB3	479		1.3	0.35
STL02881	BFS_B3	248		0.61	0.26
STL02886	BFS_B4	107		0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-54.d
 Lims ID: 410-90323-A-7-B MS
 Client ID: MW-106D_MS
 Sample Type: MS
 Inject. Date: 27-Jul-2022 20:43:42 ALS Bottle#: 36 Worklist Smp#: 28
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-7-B MS
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-028
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:32:10
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.956	3.949	0.007	0.905	4860831	19.9	248	41927
2 BFS_A3B	519.00 > 113.00	4.038	4.029	0.009	0.924	5413390	20.7	232	2372
3 BFS_B3	553.00 > 345.00	4.195	4.186	0.009	0.960	9059269	71.2	250	2658
4 BFS_A2B2	569.00 > 229.00	4.295	4.286	0.009	0.983	12986781	148.8	238	7593
D 6 13C3 HFPO-DA	332.00 > 287.00	4.370	4.369	0.001	0.878	665152	4.76	95.1	2763
5 BFS_A4B	585.00 > 113.00	4.379	4.378	0.001	1.002	3147336	11.2	226	5310
7 BFS_AB3	619.00 > 229.00	4.553	4.542	0.011	1.042	14918435	137.3	205	12852
8 BFS_A3B2	635.00 > 113.00	4.657	4.645	0.012	1.066	5208817	24.7	209	5244
9 BFS_B4	669.00 > 461.00	4.793	4.781	0.012	1.097	2111181	30.7	197	2802
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.120	15487	2.36	200	401
* 11 13C2 PFOA	415.00 > 370.00	4.978	4.977	0.001		3120488	5.00		3037

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-54.d

Injection Date: 27-Jul-2022 20:43:42

Instrument ID: 30733

Lims ID: 410-90323-A-7-B MS

Client ID: MW-106D_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 36

Worklist Smp#: 28

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

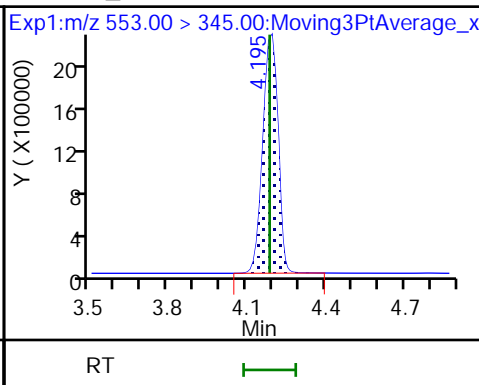
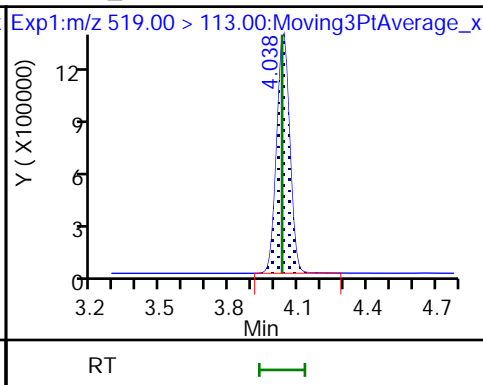
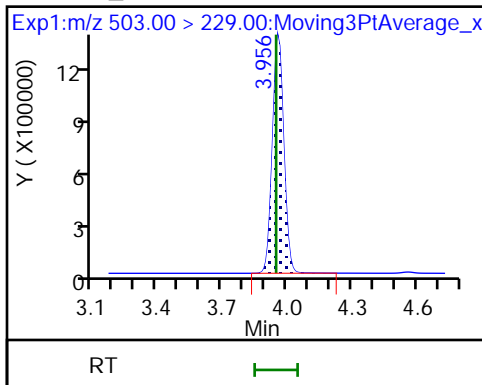
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

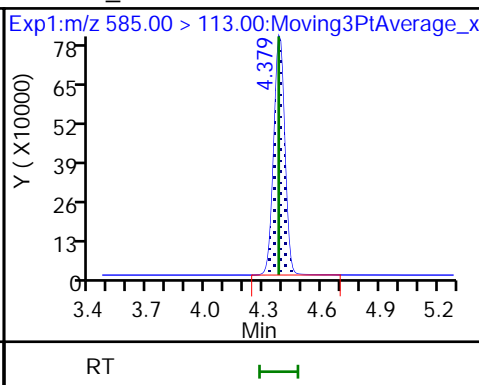
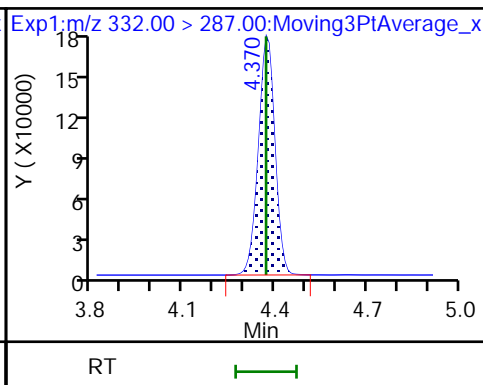
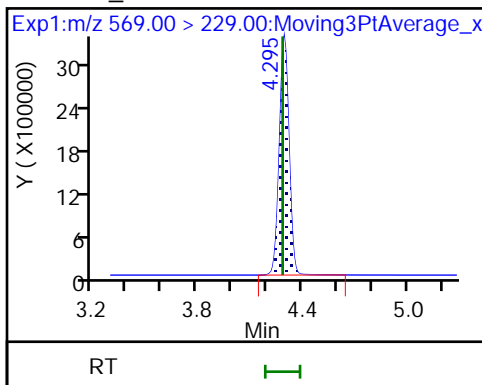
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

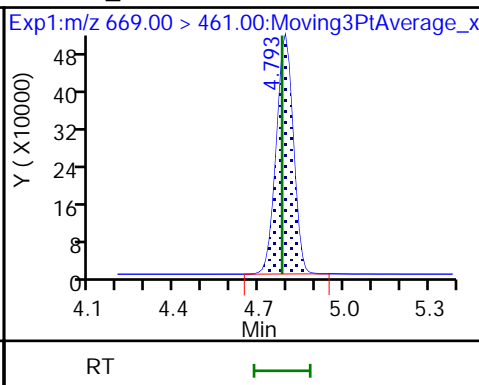
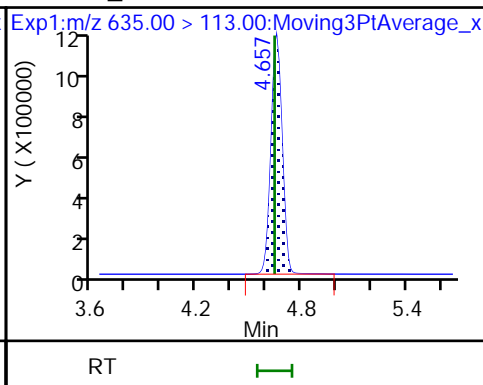
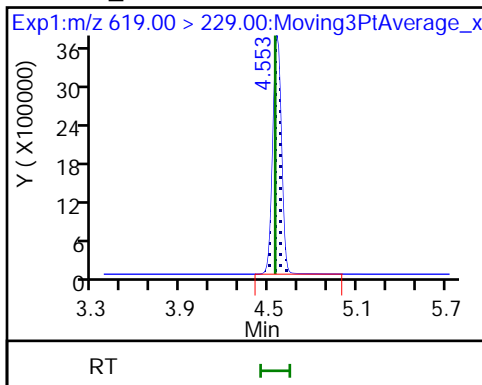
5 BFS_A4B



7 BFS_AB3

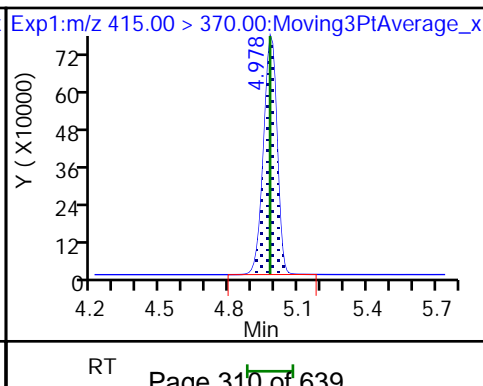
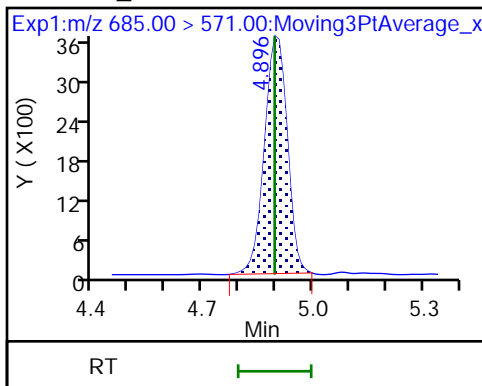
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S_MS MS Lab Sample ID: 410-90323-8 MS

Matrix: Water Lab File ID: 22JUL27BFS-41.d

Analysis Method: BFS Date Collected: 07/07/2022 11:40

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 292.1(mL) Date Analyzed: 07/27/2022 17:58

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	645		1.2	0.34
STL02887	BFS_A2B3	10.8		0.94	0.34
STL02880	BFS_A3B	93.0		0.51	0.17
STL02885	BFS_A3B2	114		0.68	0.17
STL02883	BFS_A4B	51.6		0.34	0.17
STL02879	BFS_AB2	88.5		0.51	0.068
STL02884	BFS_AB3	650		1.3	0.34
STL02881	BFS_B3	286		0.60	0.26
STL02886	BFS_B4	153		0.94	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-41.d
 Lims ID: 410-90323-A-8-B MS
 Client ID: MW-106S_MS
 Sample Type: MS
 Inject. Date: 27-Jul-2022 17:58:55 ALS Bottle#: 24 Worklist Smp#: 15
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-8-B MS
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:28:41
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.948	3.949	-0.001	0.905	5063531	25.9	323	44099
2 BFS_A3B	519.00 > 113.00	4.018	4.029	-0.011	0.921	5672428	27.2	303	2452
3 BFS_B3	553.00 > 345.00	4.172	4.186	-0.014	0.956	8497129	83.5	293	3547
4 BFS_A2B2	569.00 > 229.00	4.289	4.286	0.003	0.983	13040939	188.4	301	5844
D 6 13C3 HFPO-DA	332.00 > 287.00	4.364	4.369	-0.005	0.878	532194	4.09	81.7	2956
5 BFS_A4B	585.00 > 113.00	4.372	4.378	-0.006	1.002	3387571	15.1	305	5674
7 BFS_AB3	619.00 > 229.00	4.545	4.542	0.003	1.041	16184421	189.9	284	11255
8 BFS_A3B2	635.00 > 113.00	4.648	4.645	0.003	1.065	5581594	33.4	283	5033
9 BFS_B4	669.00 > 461.00	4.783	4.781	0.002	1.096	2436161	44.6	286	5097
10 BFS_A2B3	685.00 > 571.00	4.886	4.895	-0.009	1.120	16583	3.17	269	439
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.977	-0.009		2906905	5.00		3867

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-41.d

Injection Date: 27-Jul-2022 17:58:55

Instrument ID: 30733

Lims ID: 410-90323-A-8-B MS

Client ID: MW-106S_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

Worklist Smp#: 15

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

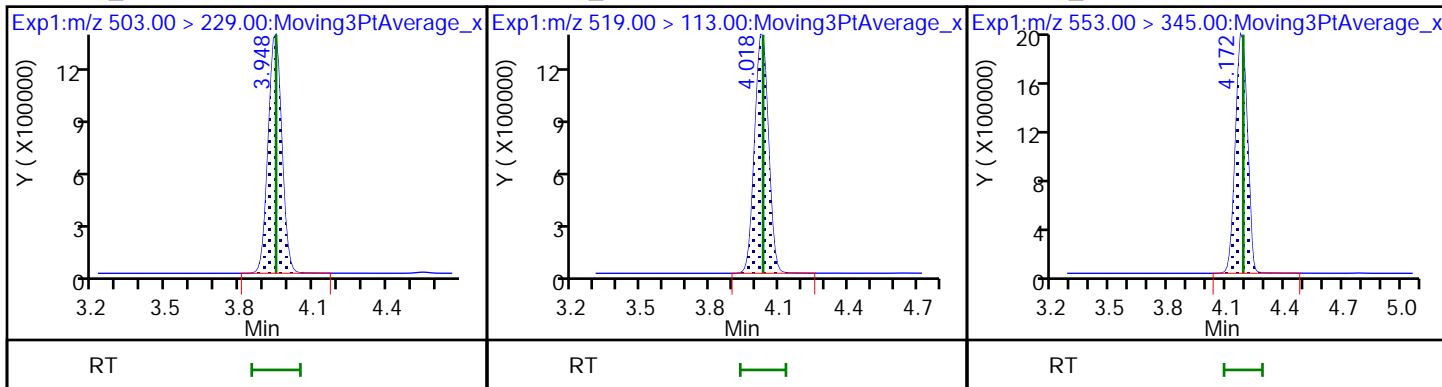
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

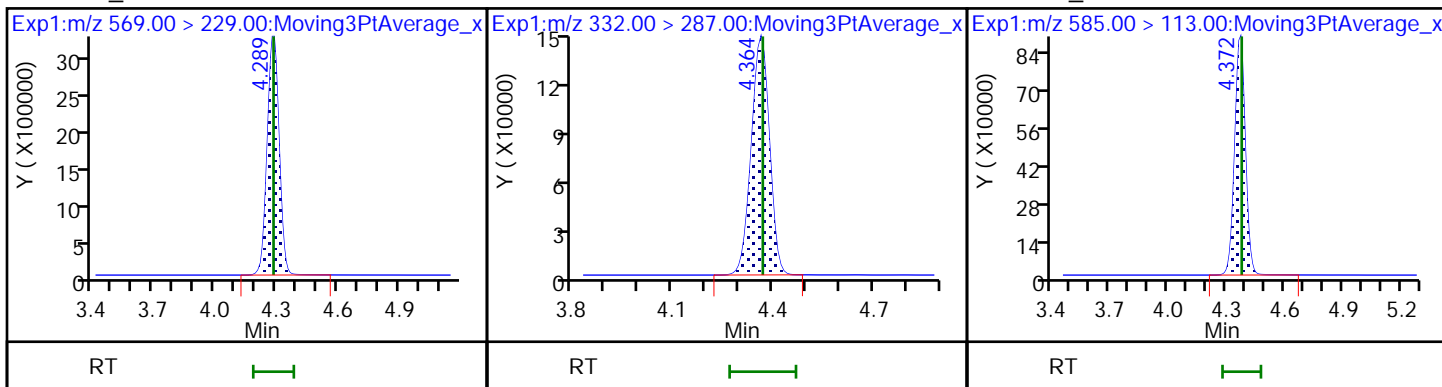
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

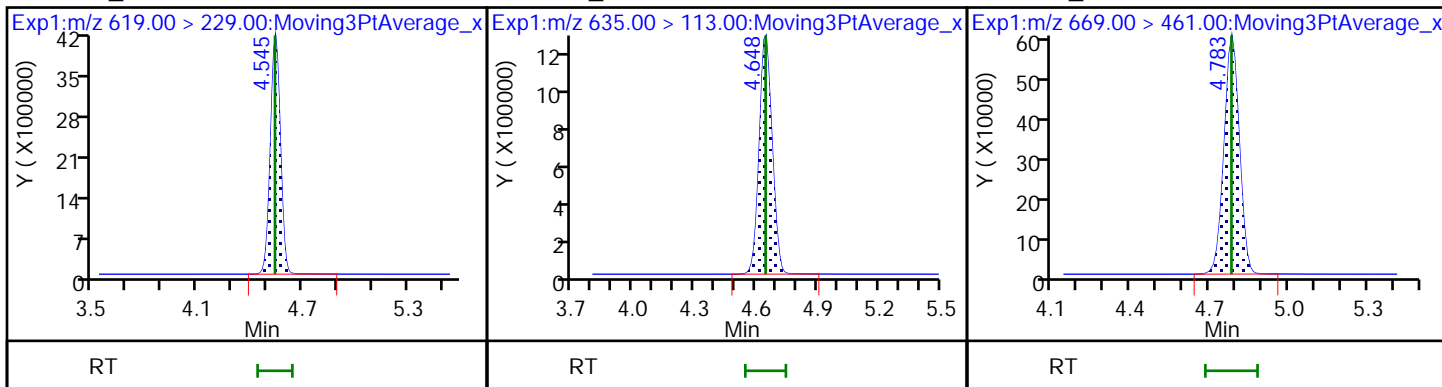
5 BFS_A4B



7 BFS_AB3

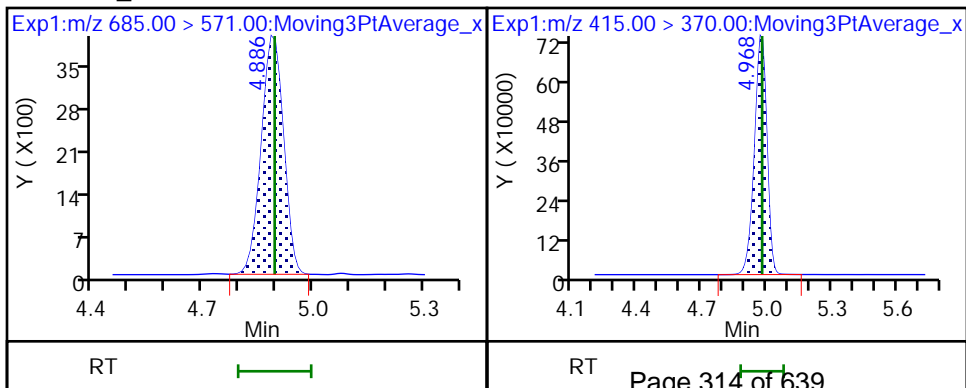
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102S_MS MS Lab Sample ID: 410-90323-15 MS

Matrix: Water Lab File ID: 22JUL27BFS-79.d

Analysis Method: BFS Date Collected: 07/07/2022 15:45

Extraction Method: 3535 Date Extracted: 07/19/2022 09:33

Sample wt/vol: 291.7(mL) Date Analyzed: 07/28/2022 02:00

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	342		1.2	0.34
STL02887	BFS_A2B3	5.59		0.94	0.34
STL02880	BFS_A3B	56.8		0.51	0.17
STL02885	BFS_A3B2	58.2		0.69	0.17
STL02883	BFS_A4B	26.4		0.34	0.17
STL02879	BFS_AB2	54.9		0.51	0.069
STL02884	BFS_AB3	337		1.3	0.34
STL02881	BFS_B3	181		0.60	0.26
STL02886	BFS_B4	73.2		0.94	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-79.d
 Lims ID: 410-90323-A-15-B MS
 Client ID: MW-102S_MS
 Sample Type: MS
 Inject. Date: 28-Jul-2022 02:00:11 ALS Bottle#: 4 Worklist Smp#: 53
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-15-B MS
 Misc. Info.: Plate: 12 Rack: 1 410-0062810-053
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:46 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:37:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.955	3.949	0.006	0.905	4118989	16.0	200	36948
2 BFS_A3B	519.00 > 113.00	4.026	4.029	-0.003	0.921	4544177	16.6	185	2225
3 BFS_B3	553.00 > 345.00	4.182	4.186	-0.004	0.957	7064002	52.8	185	2992
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.981	9264655	99.8	160	8928
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.878	699459	4.89	97.8	2674
5 BFS_A4B	585.00 > 113.00	4.378	4.378	0.0	1.002	2268829	7.69	155	3951
7 BFS_AB3	619.00 > 229.00	4.552	4.542	0.010	1.042	11393284	98.3	147	15076
8 BFS_A3B2	635.00 > 113.00	4.645	4.645	0.0	1.063	3803936	17.0	144	3727
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.094	1551682	21.4	137	2856
10 BFS_A2B3	685.00 > 571.00	4.895	4.895	0.0	1.120	11296	1.63	138	453
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.977	0.0		3192925	5.00		2297

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-79.d

Injection Date: 28-Jul-2022 02:00:11

Instrument ID: 30733

Lims ID: 410-90323-A-15-B MS

Client ID: MW-102S_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 53

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

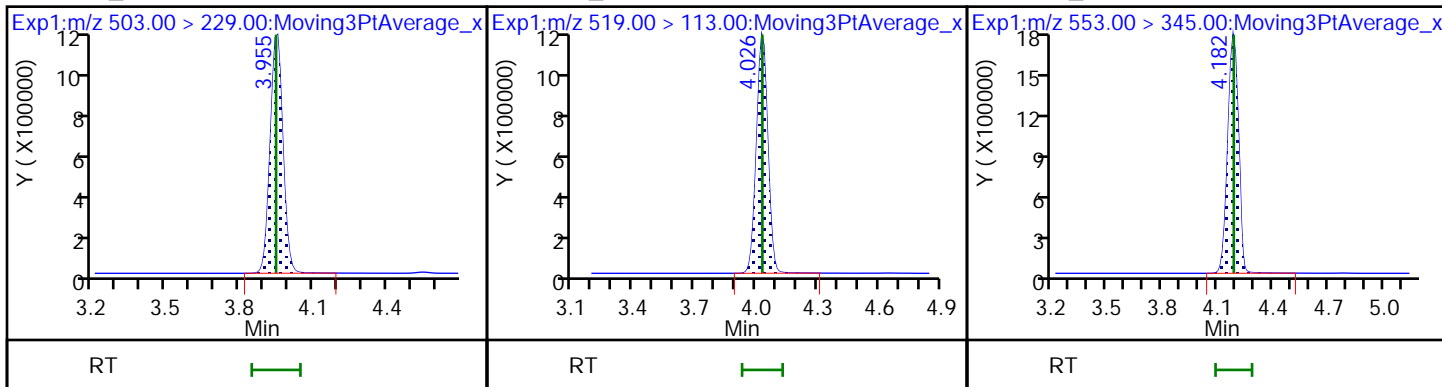
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

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2 BFS_A3B

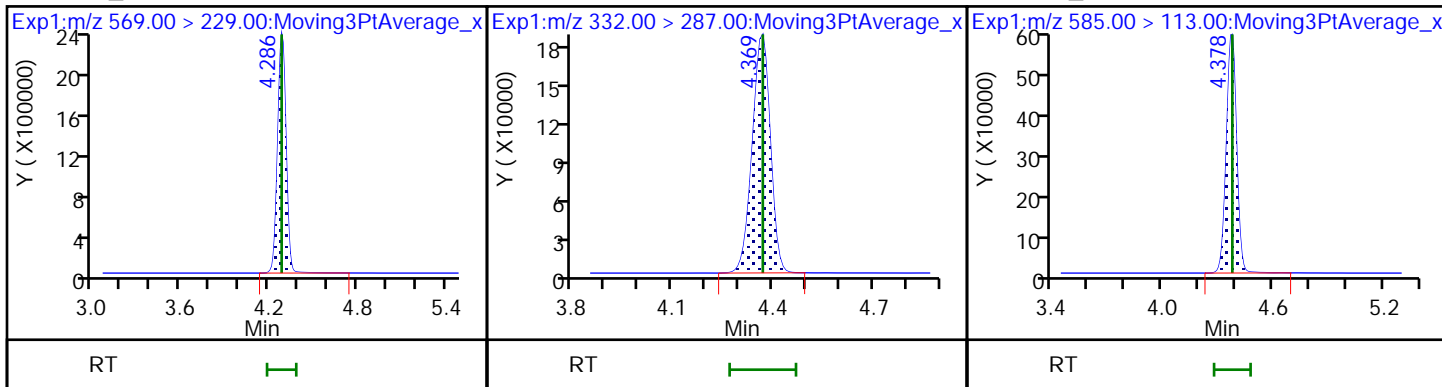
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4 BFS_A2B2

D 6 13C3 HFPO-DA

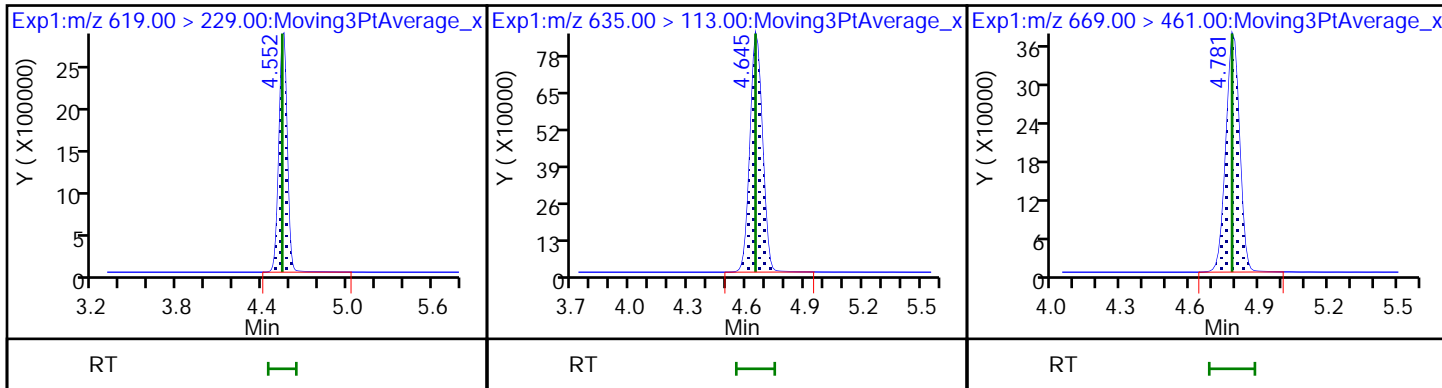
5 BFS_A4B



7 BFS_AB3

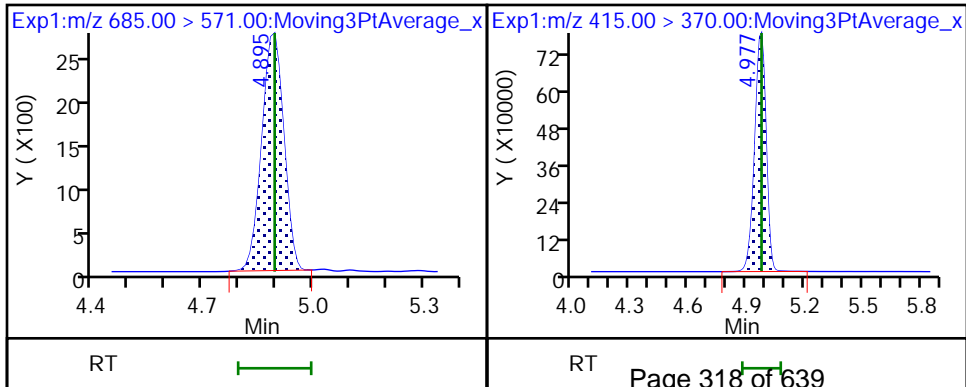
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S_MSD MSD Lab Sample ID: 410-90323-1 MSD

Matrix: Water Lab File ID: 22JUL27BFS-62.d

Analysis Method: BFS Date Collected: 07/06/2022 13:45

Extraction Method: 3535 Date Extracted: 07/19/2022 09:29

Sample wt/vol: 283.8(mL) Date Analyzed: 07/27/2022 22:24

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	362		1.2	0.35
STL02887	BFS_A2B3	6.07		0.97	0.35
STL02880	BFS_A3B	60.3		0.53	0.18
STL02885	BFS_A3B2	62.3		0.70	0.18
STL02883	BFS_A4B	27.7		0.35	0.18
STL02879	BFS_AB2	56.1		0.53	0.070
STL02884	BFS_AB3	365		1.3	0.35
STL02881	BFS_B3	179		0.62	0.26
STL02886	BFS_B4	84.7		0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-62.d
 Lims ID: 410-90323-A-1-C MSD
 Client ID: MW-112S_MSD
 Sample Type: MSD
 Inject. Date: 27-Jul-2022 22:24:32 ALS Bottle#: 43 Worklist Smp#: 36
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-1-C MSD
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-036
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:56 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:35:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.949	0.002	0.904	4332999	15.9	199	37916
2 BFS_A3B	519.00 > 113.00	4.031	4.029	0.002	0.922	4964538	17.1	191	2528
3 BFS_B3	553.00 > 345.00	4.188	4.186	0.002	0.958	7194675	50.8	178	2792
4 BFS_A2B2	569.00 > 229.00	4.288	4.286	0.002	0.981	10080168	102.8	165	15157
D 6 13C3 HFPO-DA	332.00 > 287.00	4.371	4.369	0.002	0.878	739646	5.38	108	2422
5 BFS_A4B	585.00 > 113.00	4.380	4.378	0.002	1.002	2456309	7.87	159	3373
7 BFS_AB3	619.00 > 229.00	4.554	4.542	0.012	1.042	12665691	103.5	155	10303
8 BFS_A3B2	635.00 > 113.00	4.648	4.645	0.003	1.063	4181480	17.7	150	3904
9 BFS_B4	669.00 > 461.00	4.793	4.781	0.012	1.096	1845029	24.0	154	3047
10 BFS_A2B3	685.00 > 571.00	4.896	4.895	0.001	1.120	12617	1.72	146	265
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.977	0.0		3065775	5.00		2536

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-62.d

Injection Date: 27-Jul-2022 22:24:32

Instrument ID: 30733

Lims ID: 410-90323-A-1-C MSD

Client ID: MW-112S_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 43

Worklist Smp#: 36

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

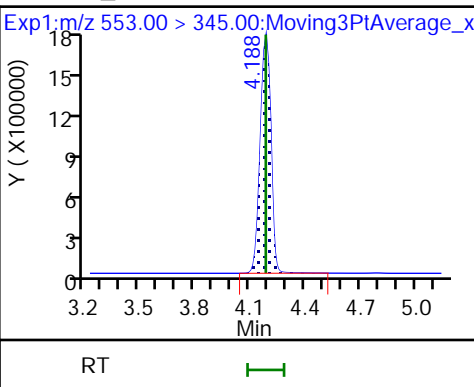
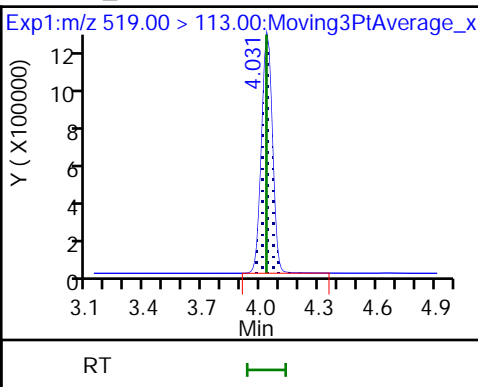
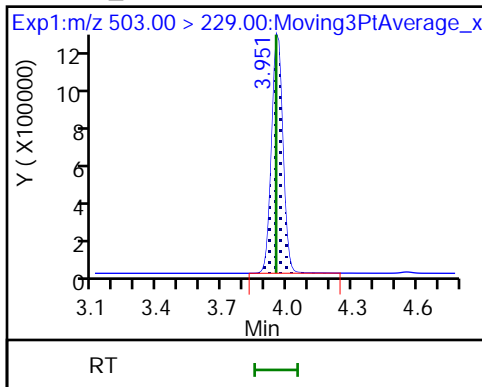
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

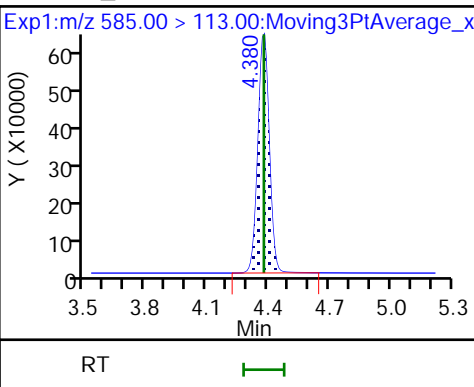
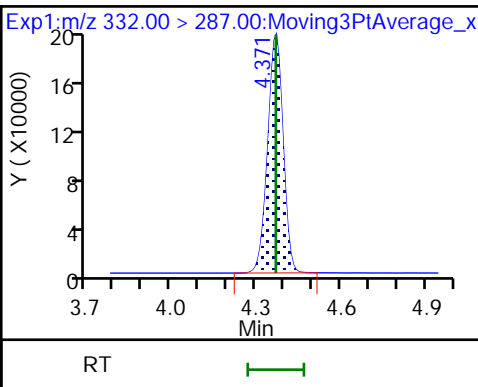
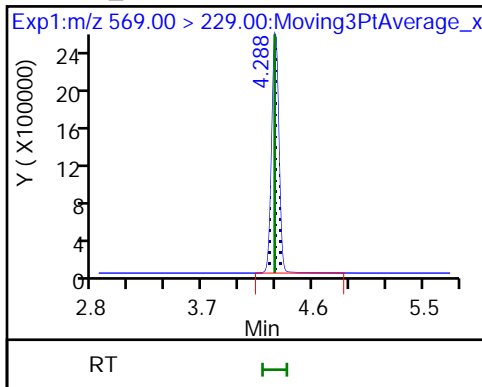
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

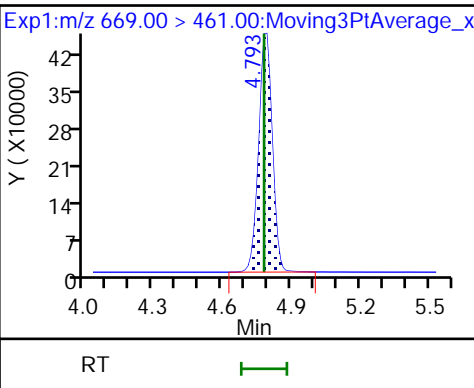
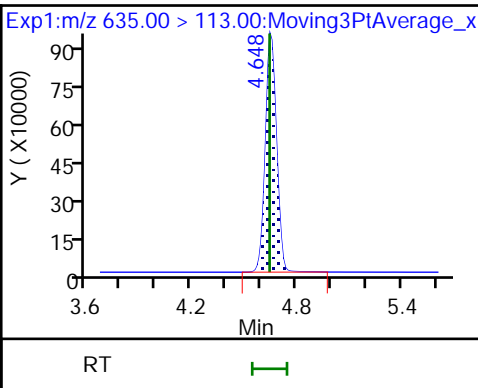
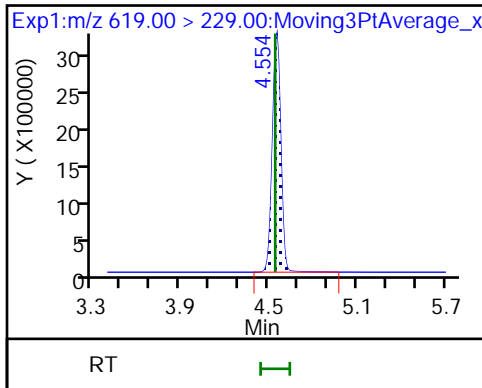
5 BFS_A4B



7 BFS_AB3

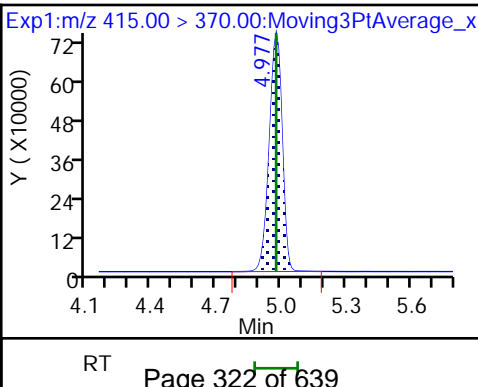
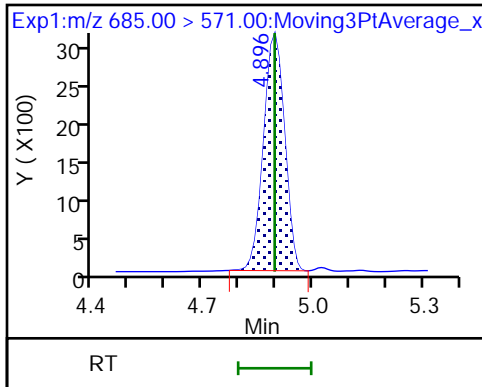
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112D_MSD MSD Lab Sample ID: 410-90323-2 MSD

Matrix: Water Lab File ID: 22JUL27BFS-69.d

Analysis Method: BFS Date Collected: 07/06/2022 15:35

Extraction Method: 3535 Date Extracted: 07/19/2022 09:34

Sample wt/vol: 315.4(mL) Date Analyzed: 07/27/2022 23:52

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	457		1.1	0.32
STL02887	BFS_A2B3	7.04		0.87	0.32
STL02880	BFS_A3B	68.5		0.48	0.16
STL02885	BFS_A3B2	75.7		0.63	0.16
STL02883	BFS_A4B	33.8		0.32	0.16
STL02879	BFS_AB2	62.3		0.48	0.063
STL02884	BFS_AB3	436		1.2	0.32
STL02881	BFS_B3	219		0.55	0.24
STL02886	BFS_B4	99.0		0.87	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-69.d
 Lims ID: 410-90323-A-2-C MSD
 Client ID: MW-112D_MSD
 Sample Type: MSD
 Inject. Date: 27-Jul-2022 23:52:36 ALS Bottle#: 49 Worklist Smp#: 43
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-2-C MSD
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-043
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:50 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:36:07
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.949	3.949	0.0	0.904	4883644	19.7	245	43367
2 BFS_A3B	519.00 > 113.00	4.029	4.029	0.0	0.922	5725282	21.6	241	2384
3 BFS_B3	553.00 > 345.00	4.186	4.186	0.0	0.958	8914786	69.0	242	3391
4 BFS_A2B2	569.00 > 229.00	4.294	4.286	0.008	0.983	12795284	144.2	231	8870
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.878	675412	4.72	94.5	2351
5 BFS_A4B	585.00 > 113.00	4.378	4.378	0.0	1.002	3039845	10.7	215	3384
7 BFS_AB3	619.00 > 229.00	4.552	4.542	0.010	1.042	15169361	137.5	205	12869
8 BFS_A3B2	635.00 > 113.00	4.646	4.645	0.001	1.063	5125310	23.9	203	4300
9 BFS_B4	669.00 > 461.00	4.792	4.781	0.011	1.097	2180466	31.2	201	4207
10 BFS_A2B3	685.00 > 571.00	4.895	4.895	0.0	1.120	14803	2.22	188	590
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.977	0.0		3190365	5.00		2660

QC Flag Legend
 Processing Flags

Reagents:

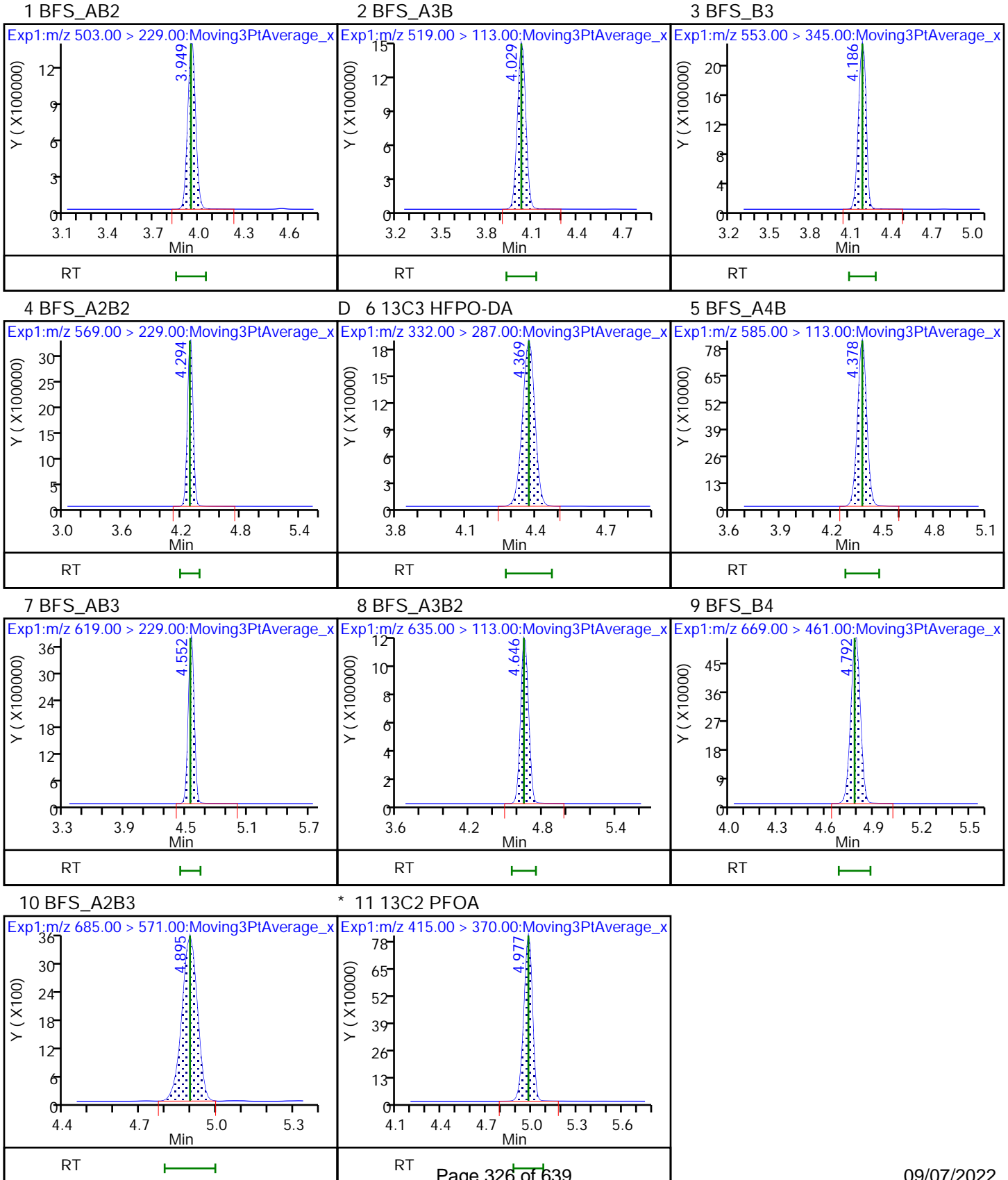
PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-69.d
Injection Date: 27-Jul-2022 23:52:36 Instrument ID: 30733
Lims ID: 410-90323-A-2-C MSD
Client ID: MW-112D_MSD
Operator ID: US19_USR_INS20260 ALS Bottle#: 49 Worklist Smp#: 43
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106D_MSD MSD Lab Sample ID: 410-90323-7 MSD

Matrix: Water Lab File ID: 22JUL27BFS-55.d

Analysis Method: BFS Date Collected: 07/07/2022 11:30

Extraction Method: 3535 Date Extracted: 07/19/2022 09:26

Sample wt/vol: 277.3(mL) Date Analyzed: 07/27/2022 20:56

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	518		1.3	0.36
STL02887	BFS_A2B3	8.33		0.99	0.36
STL02880	BFS_A3B	75.0		0.54	0.18
STL02885	BFS_A3B2	87.5		0.72	0.18
STL02883	BFS_A4B	39.3		0.36	0.18
STL02879	BFS_AB2	67.1		0.54	0.072
STL02884	BFS_AB3	489		1.4	0.36
STL02881	BFS_B3	248		0.63	0.27
STL02886	BFS_B4	118		0.99	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-55.d
 Lims ID: 410-90323-A-7-C MSD
 Client ID: MW-106D_MSD
 Sample Type: MSD
 Inject. Date: 27-Jul-2022 20:56:17 ALS Bottle#: 37 Worklist Smp#: 29
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-7-C MSD
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-029
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:33:36
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.945	3.949	-0.004	0.903	4697495	18.6	232	39359
2 BFS_A3B	519.00 > 113.00	4.026	4.029	-0.003	0.921	5595768	20.8	232	2165
3 BFS_B3	553.00 > 345.00	4.181	4.186	-0.005	0.957	9033224	68.8	241	2658
4 BFS_A2B2	569.00 > 229.00	4.286	4.286	0.0	0.981	12952808	143.7	230	10338
D 6 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.878	685961	4.81	96.2	2349
5 BFS_A4B	585.00 > 113.00	4.369	4.378	-0.009	1.000	3155013	10.9	220	2688
7 BFS_AB3	619.00 > 229.00	4.552	4.542	0.010	1.042	15191487	135.5	202	15082
8 BFS_A3B2	635.00 > 113.00	4.645	4.645	0.0	1.063	5283108	24.3	206	4271
9 BFS_B4	669.00 > 461.00	4.781	4.781	0.0	1.094	2310679	32.6	210	4681
10 BFS_A2B3	685.00 > 571.00	4.895	4.895	0.0	1.120	15637	2.31	196	773
* 11 13C2 PFOA	415.00 > 370.00	4.976	4.977	-0.001		3183744	5.00		2992

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-55.d

Injection Date: 27-Jul-2022 20:56:17

Instrument ID: 30733

Lims ID: 410-90323-A-7-C MSD

Client ID: MW-106D_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 37

Worklist Smp#: 29

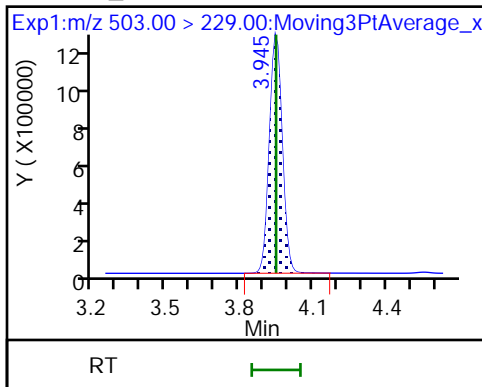
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

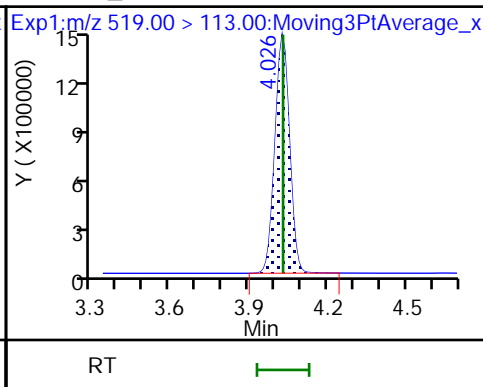
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

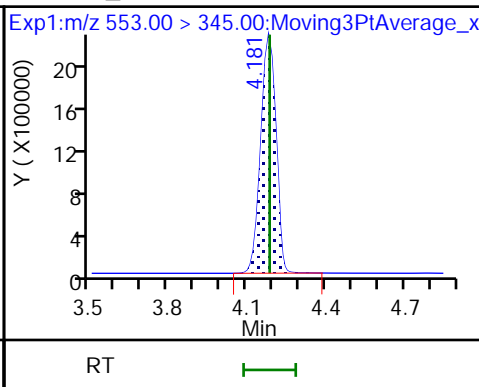
1 BFS_AB2



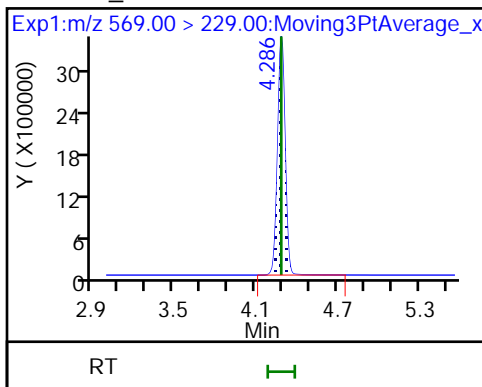
2 BFS_A3B



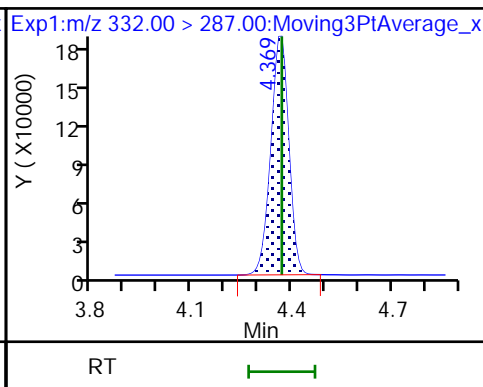
3 BFS_B3



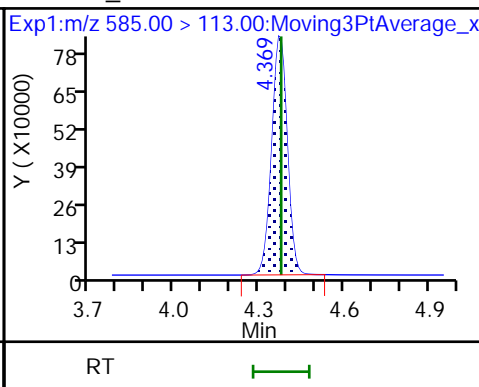
4 BFS_A2B2



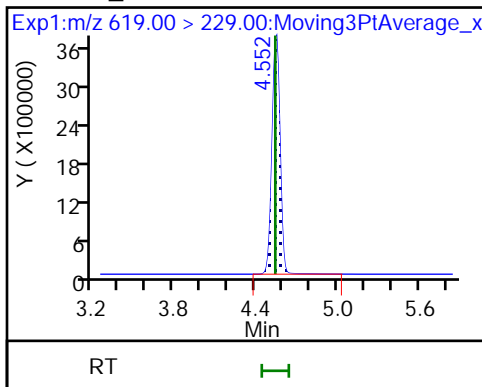
D 6 13C3 HFPO-DA



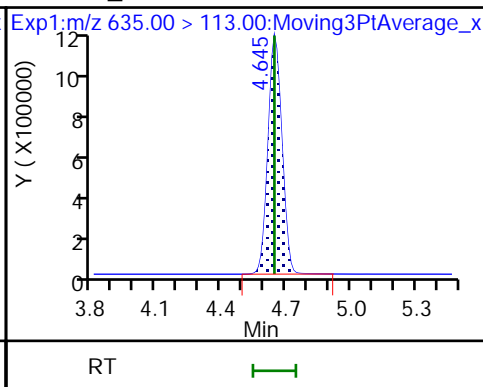
5 BFS_A4B



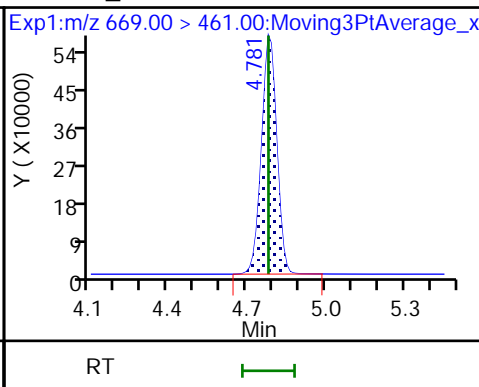
7 BFS_AB3



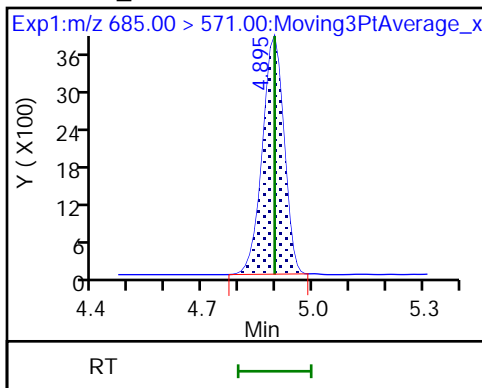
8 BFS_A3B2



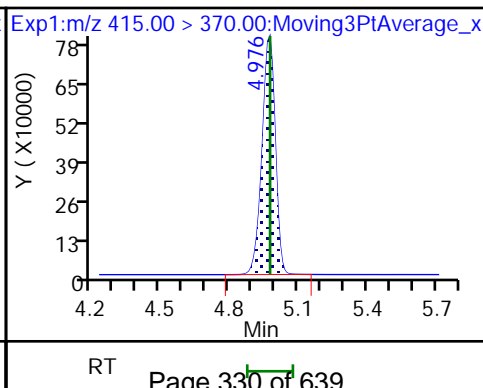
9 BFS_B4



10 BFS_A2B3



* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S_MSD MSD Lab Sample ID: 410-90323-8 MSD

Matrix: Water Lab File ID: 22JUL27BFS-42.d

Analysis Method: BFS Date Collected: 07/07/2022 11:45

Extraction Method: 3535 Date Extracted: 07/19/2022 09:28

Sample wt/vol: 265.2 (mL) Date Analyzed: 07/27/2022 18:11

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	730		1.3	0.38
STL02887	BFS_A2B3	11.8		1.0	0.38
STL02880	BFS_A3B	105		0.57	0.19
STL02885	BFS_A3B2	125		0.75	0.19
STL02883	BFS_A4B	59.0		0.38	0.19
STL02879	BFS_AB2	103		0.57	0.075
STL02884	BFS_AB3	725		1.4	0.38
STL02881	BFS_B3	317		0.66	0.28
STL02886	BFS_B4	156		1.0	0.38

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-42.d
 Lims ID: 410-90323-A-8-C MSD
 Client ID: MW-106S_MSD
 Sample Type: MSD
 Inject. Date: 27-Jul-2022 18:11:29 ALS Bottle#: 25 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-8-C MSD
 Misc. Info.: Plate: 11 Rack: 1 410-0062810-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:38:00 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:28:52
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.953	3.949	0.004	0.904	5214987	27.2	339	47562
2 BFS_A3B	519.00 > 113.00	4.034	4.029	0.005	0.922	5666419	27.7	309	2869
3 BFS_B3	553.00 > 345.00	4.191	4.186	0.005	0.958	8372904	84.0	294	3919
4 BFS_A2B2	569.00 > 229.00	4.291	4.286	0.005	0.981	13102668	193.5	310	10239
D 6 13C3 HFPO-DA	332.00 > 287.00	4.374	4.369	0.005	0.878	521039	4.13	82.5	3161
5 BFS_A4B	585.00 > 113.00	4.374	4.378	-0.004	1.000	3442752	15.7	316	3639
7 BFS_AB3	619.00 > 229.00	4.557	4.542	0.015	1.042	16039170	192.4	287	10209
8 BFS_A3B2	635.00 > 113.00	4.650	4.645	0.005	1.063	5442114	33.2	282	4980
9 BFS_B4	669.00 > 461.00	4.786	4.781	0.005	1.094	2223786	41.5	267	5134
10 BFS_A2B3	685.00 > 571.00	4.900	4.895	0.005	1.120	16010	3.12	265	648
* 11 13C2 PFOA	415.00 > 370.00	4.981	4.977	0.004		2816859	5.00		3195

QC Flag Legend
Processing Flags

Reagents:

PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-42.d

Injection Date: 27-Jul-2022 18:11:29

Instrument ID: 30733

Lims ID: 410-90323-A-8-C MSD

Client ID: MW-106S_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 25

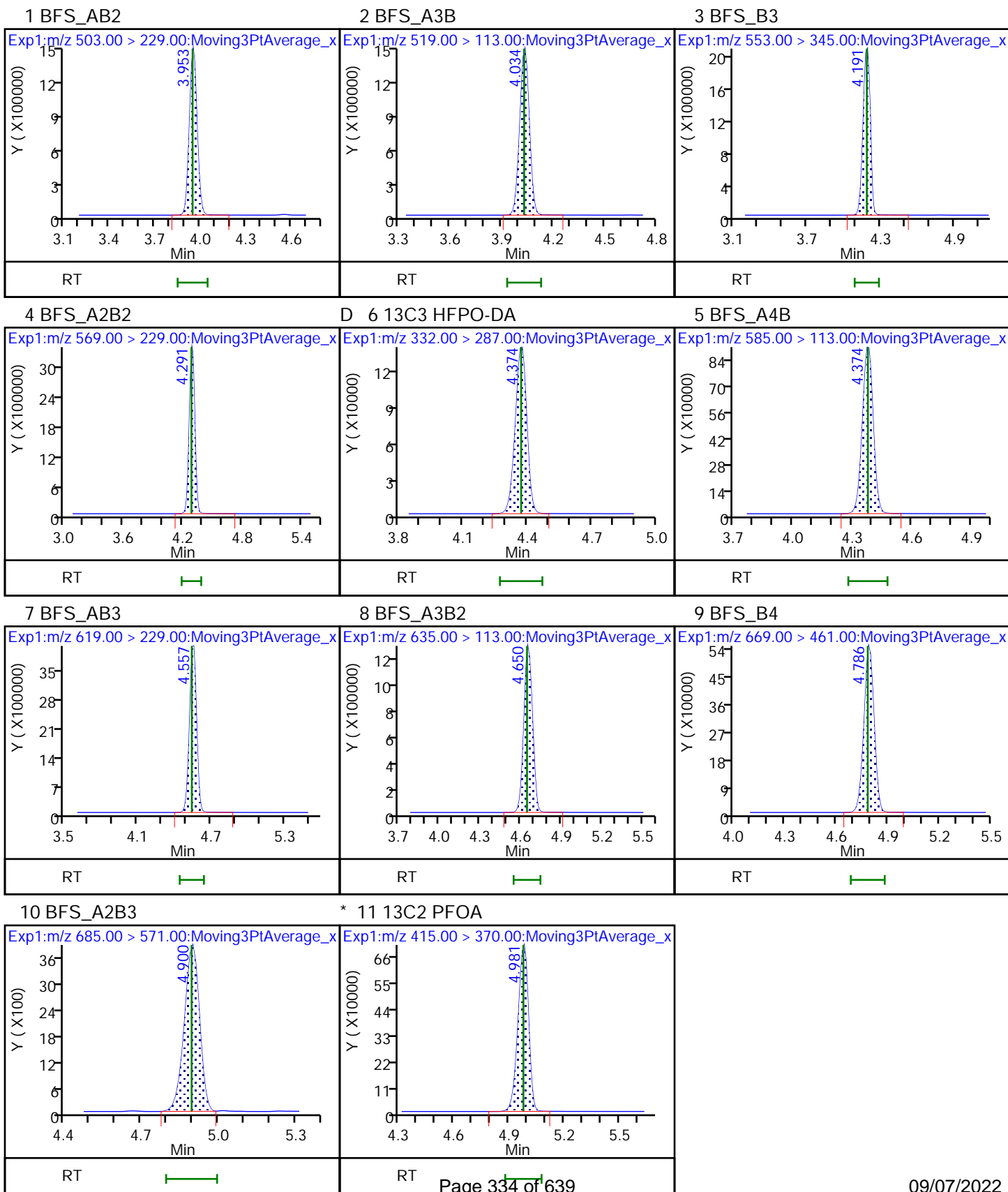
Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102SMSD MSD Lab Sample ID: 410-90323-15 MSD

Matrix: Water Lab File ID: 22JUL27BFS-80.d

Analysis Method: BFS Date Collected: 07/07/2022 15:50

Extraction Method: 3535 Date Extracted: 07/19/2022 09:33

Sample wt/vol: 317.9(mL) Date Analyzed: 07/28/2022 02:12

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280078 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	289		1.1	0.31
STL02887	BFS_A2B3	4.23		0.87	0.31
STL02880	BFS_A3B	44.9		0.47	0.16
STL02885	BFS_A3B2	47.2		0.63	0.16
STL02883	BFS_A4B	22.1		0.31	0.16
STL02879	BFS_AB2	45.5		0.47	0.063
STL02884	BFS_AB3	288		1.2	0.31
STL02881	BFS_B3	146		0.55	0.24
STL02886	BFS_B4	57.9		0.87	0.31

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-80.d
 Lims ID: 410-90323-A-15-C MSD
 Client ID: MW-102SMSD
 Sample Type: MSD
 Inject. Date: 28-Jul-2022 02:12:45 ALS Bottle#: 5 Worklist Smp#: 54
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-A-15-C MSD
 Misc. Info.: Plate: 12 Rack: 1 410-0062810-054
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 28-Jul-2022 07:37:46 Calib Date: 27-Jul-2022 13:45:36
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220727-62779.b\22JUL27BFS-23.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:37:31
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.949	0.003	0.905	3658425	14.5	180	38585
2 BFS_A3B	519.00 > 113.00	4.034	4.029	0.005	0.924	3849670	14.3	159	2068
3 BFS_B3	553.00 > 345.00	4.178	4.186	-0.008	0.957	6117916	46.5	163	2900
4 BFS_A2B2	569.00 > 229.00	4.291	4.286	0.005	0.983	8388619	91.7	147	8128
D 6 13C3 HFPO-DA	332.00 > 287.00	4.366	4.369	-0.003	0.878	688187	4.90	98.0	2173
5 BFS_A4B	585.00 > 113.00	4.374	4.378	-0.004	1.002	2038788	7.02	142	4384
7 BFS_AB3	619.00 > 229.00	4.547	4.542	0.005	1.041	10473525	91.6	137	12096
8 BFS_A3B2	635.00 > 113.00	4.650	4.645	0.005	1.065	3313019	15.0	127	3684
9 BFS_B4	669.00 > 461.00	4.786	4.781	0.005	1.096	1317750	18.4	118	2672
10 BFS_A2B3	685.00 > 571.00	4.890	4.895	-0.005	1.120	9184	1.34	114	449
* 11 13C2 PFOA	415.00 > 370.00	4.971	4.977	-0.006		3133705	5.00		1973

QC Flag Legend
 Processing Flags

Reagents:

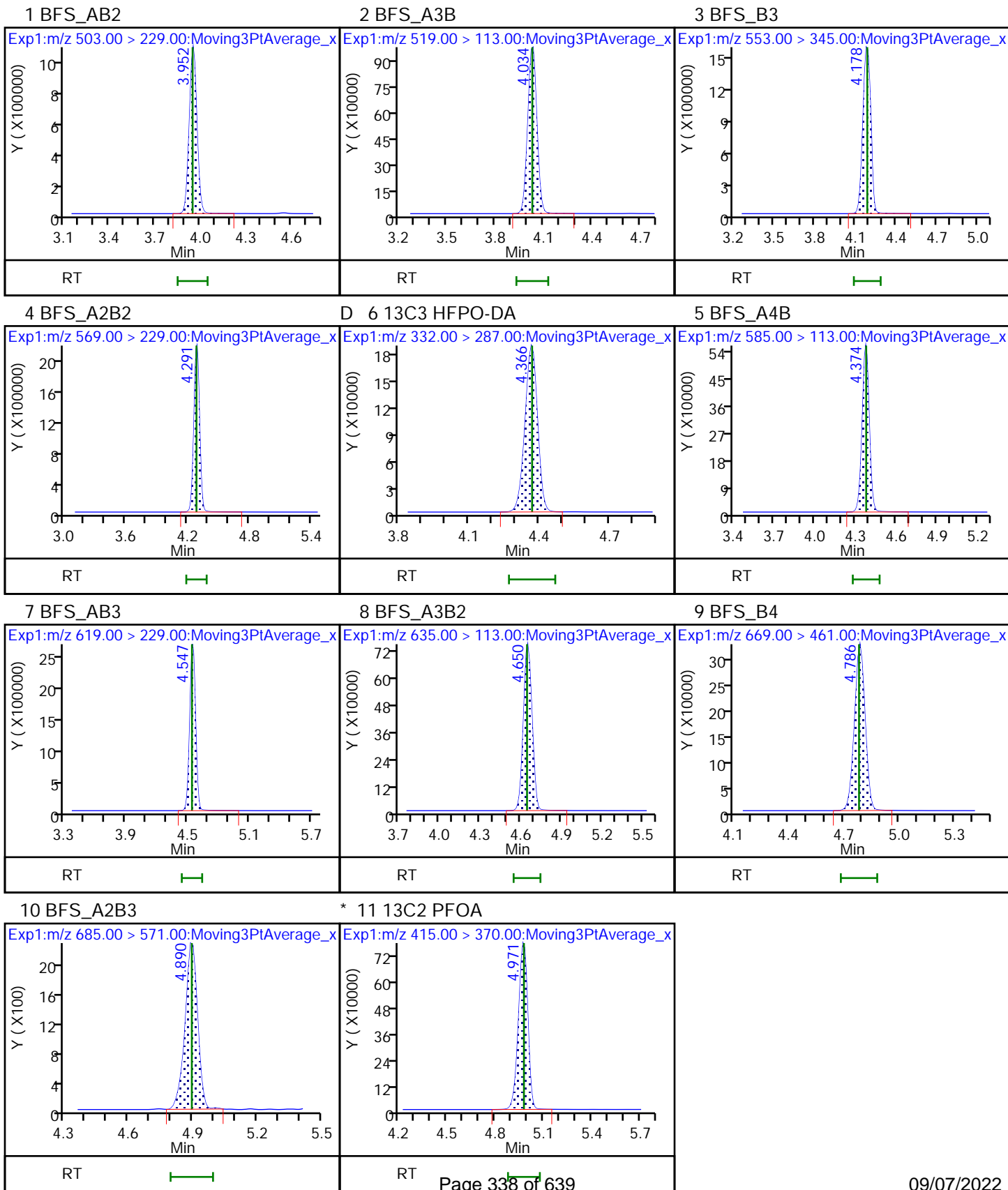
PFC_IS_MOD_00364

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62810.b\22JUL27BFS-80.d
Injection Date: 28-Jul-2022 02:12:45 Instrument ID: 30733
Lims ID: 410-90323-A-15-C MSD
Client ID: MW-102SMSD
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 54
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 07/27/2022 11:52

Analysis Batch Number: 279955 End Date: 07/27/2022 14:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-279955/1		07/27/2022 11:52	1	22JUL27BFS-14.d	Gemini C18 50mm 3 (mm)
IC 410-279955/2		07/27/2022 12:04	1	22JUL27BFS-15.d	Gemini C18 50mm 3 (mm)
IC 410-279955/3		07/27/2022 12:17	1	22JUL27BFS-16.d	Gemini C18 50mm 3 (mm)
IC 410-279955/4		07/27/2022 12:30	1	22JUL27BFS-17.d	Gemini C18 50mm 3 (mm)
ICISAV 410-279955/5		07/27/2022 12:42	1	22JUL27BFS-18.d	Gemini C18 50mm 3 (mm)
IC 410-279955/6		07/27/2022 12:55	1	22JUL27BFS-19.d	Gemini C18 50mm 3 (mm)
IC 410-279955/7		07/27/2022 13:07	1	22JUL27BFS-20.d	Gemini C18 50mm 3 (mm)
IC 410-279955/8		07/27/2022 13:20	1	22JUL27BFS-21.d	Gemini C18 50mm 3 (mm)
IC 410-279955/9		07/27/2022 13:33	1	22JUL27BFS-22.d	Gemini C18 50mm 3 (mm)
IC 410-279955/10		07/27/2022 13:45	1	22JUL27BFS-23.d	Gemini C18 50mm 3 (mm)
ICB 410-279955/11		07/27/2022 13:58	1	22JUL27BFS-24.d	Gemini C18 50mm 3 (mm)
ICV 410-279955/12		07/27/2022 14:10	1	22JUL27BFS-25.d	Gemini C18 50mm 3 (mm)
CCV 410-279955/13		07/27/2022 14:24	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733

Start Date: 07/27/2022 15:02

Analysis Batch Number: 280078

End Date: 07/28/2022 02:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-280078/1		07/27/2022 15:02	1	22JUL27BFS-27.d	Gemini C18 50mm 3 (mm)
CCV 410-280078/2		07/27/2022 15:15	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 15:27	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 15:40	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 15:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 16:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 16:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 16:30	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 16:43	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/27/2022 16:55	1		Gemini C18 50mm 3 (mm)
CCV 410-280078/11		07/27/2022 17:08	1	22JUL27BFS-37.d	Gemini C18 50mm 3 (mm)
MB 410-277008/1-A		07/27/2022 17:21	1	22JUL27BFS-38.d	Gemini C18 50mm 3 (mm)
LCS 410-277008/2-A		07/27/2022 17:33	1	22JUL27BFS-39.d	Gemini C18 50mm 3 (mm)
410-90323-8	MW-106S	07/27/2022 17:46	1	22JUL27BFS-40.d	Gemini C18 50mm 3 (mm)
410-90323-8 MS	MW-106S_MS MS	07/27/2022 17:58	1	22JUL27BFS-41.d	Gemini C18 50mm 3 (mm)
410-90323-8 MSD	MW-106S_MSD MSD	07/27/2022 18:11	1	22JUL27BFS-42.d	Gemini C18 50mm 3 (mm)
410-90323-9	MW-103D	07/27/2022 18:24	1	22JUL27BFS-43.d	Gemini C18 50mm 3 (mm)
410-90323-10	MW-113D	07/27/2022 18:36	1	22JUL27BFS-44.d	Gemini C18 50mm 3 (mm)
410-90323-11	MW-113S	07/27/2022 18:49	1	22JUL27BFS-45.d	Gemini C18 50mm 3 (mm)
410-90323-12	DUP1_070722	07/27/2022 19:01	1	22JUL27BFS-46.d	Gemini C18 50mm 3 (mm)
410-90323-13	EB_070722	07/27/2022 19:14	1	22JUL27BFS-47.d	Gemini C18 50mm 3 (mm)
410-90323-14	DUP2_070722	07/27/2022 19:27	1	22JUL27BFS-48.d	Gemini C18 50mm 3 (mm)
CCV 410-280078/24		07/27/2022 19:52	1	22JUL27BFS-50.d	Gemini C18 50mm 3 (mm)
MB 410-277007/1-A		07/27/2022 20:04	1	22JUL27BFS-51.d	Gemini C18 50mm 3 (mm)
LCS 410-277007/2-A		07/27/2022 20:17	1	22JUL27BFS-52.d	Gemini C18 50mm 3 (mm)
410-90323-7	MW-106D	07/27/2022 20:29	1	22JUL27BFS-53.d	Gemini C18 50mm 3 (mm)
410-90323-7 MS	MW-106D_MS MS	07/27/2022 20:43	1	22JUL27BFS-54.d	Gemini C18 50mm 3 (mm)
410-90323-7 MSD	MW-106D_MSD MSD	07/27/2022 20:56	1	22JUL27BFS-55.d	Gemini C18 50mm 3 (mm)
CCV 410-280078/31		07/27/2022 21:21	1	22JUL27BFS-57.d	Gemini C18 50mm 3 (mm)
MB 410-277011/1-A		07/27/2022 21:34	1	22JUL27BFS-58.d	Gemini C18 50mm 3 (mm)
LCS 410-277011/2-A		07/27/2022 21:46	1	22JUL27BFS-59.d	Gemini C18 50mm 3 (mm)
410-90323-1	MW-112S	07/27/2022 21:59	1	22JUL27BFS-60.d	Gemini C18 50mm 3 (mm)
410-90323-1 MS	MW-112S_MS MS	07/27/2022 22:11	1	22JUL27BFS-61.d	Gemini C18 50mm 3 (mm)
410-90323-1 MSD	MW-112S_MSD MSD	07/27/2022 22:24	1	22JUL27BFS-62.d	Gemini C18 50mm 3 (mm)
CCV 410-280078/38		07/27/2022 22:49	1	22JUL27BFS-64.d	Gemini C18 50mm 3 (mm)
MB 410-277014/1-A		07/27/2022 23:02	1	22JUL27BFS-65.d	Gemini C18 50mm 3 (mm)
LCS 410-277014/2-A		07/27/2022 23:14	1	22JUL27BFS-66.d	Gemini C18 50mm 3 (mm)
410-90323-2	MW-112D	07/27/2022 23:27	1	22JUL27BFS-67.d	Gemini C18 50mm 3 (mm)
410-90323-2 MS	MW-112D_MS MS	07/27/2022 23:39	1	22JUL27BFS-68.d	Gemini C18 50mm 3 (mm)
410-90323-2 MSD	MW-112D_MSD MSD	07/27/2022 23:52	1	22JUL27BFS-69.d	Gemini C18 50mm 3 (mm)
410-90323-3	MW-103S	07/28/2022 00:05	1	22JUL27BFS-70.d	Gemini C18 50mm 3 (mm)
410-90323-4	FB_070622	07/28/2022 00:17	1	22JUL27BFS-71.d	Gemini C18 50mm 3 (mm)
410-90323-5	EB_070622	07/28/2022 00:30	1	22JUL27BFS-72.d	Gemini C18 50mm 3 (mm)
410-90323-6	DUP1_070622	07/28/2022 00:42	1	22JUL27BFS-73.d	Gemini C18 50mm 3 (mm)
CCV 410-280078/49		07/28/2022 01:08	1	22JUL27BFS-75.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 07/27/2022 15:02

Analysis Batch Number: 280078 End Date: 07/28/2022 02:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MB 410-277013/1-A		07/28/2022 01:20	1	22JUL27BFS-76.d	Gemini C18 50mm 3 (mm)
LCS 410-277013/2-A		07/28/2022 01:34	1	22JUL27BFS-77.d	Gemini C18 50mm 3 (mm)
410-90323-15	MW-102S	07/28/2022 01:47	1	22JUL27BFS-78.d	Gemini C18 50mm 3 (mm)
410-90323-15 MS	MW-102S_MS MS	07/28/2022 02:00	1	22JUL27BFS-79.d	Gemini C18 50mm 3 (mm)
410-90323-15 MSD	MW-102SMSD MSD	07/28/2022 02:12	1	22JUL27BFS-80.d	Gemini C18 50mm 3 (mm)
CCV 410-280078/56		07/28/2022 02:37	1	22JUL27BFS-82.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 277007 Batch Start Date: 07/19/22 09:26 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00012
MB 410-277007/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-277007/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-7	MW-106D	3535, BFS	T	337.73 g	27.58 g	310.2 mL	1 mL		0.1 mL
410-90323-A-7 MS	MW-106D_MS	3535, BFS	T	314.03 g	27.36 g	286.7 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-7 MSD	MW-106D_MSD	3535, BFS	T	304.63 g	27.29 g	277.3 mL	1 mL	0.045 mL	0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	11
Pipette/Syringe/Dispenser ID	P10-9, PFAS 4, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	3090607192233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277007

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:26:00AM

Method Code: 410-3535_28D-410

Batch End: B410-277007



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1	Adj2					
1	MB-410-277007/1 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
2	LCS-410-277007/2 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
3	410-90323-A-7 (BFS_IDA)	N/A (410-90323-1)	337.73 g	310.2 mL				7/12/22	7_Days	4		
			27.58 g	1 mL								
4	410-90323-A-7-MS (BFS_IDA)	N/A (410-90323-1)	314.03 g	286.7 mL				7/12/22	7_Days	4		
			27.36 g	1 mL								
5	410-90323-A-7-MSD (BFS_IDA)	N/A (410-90323-1)	304.63 g	277.3 mL				7/12/22	7_Days	4		
			27.29 g	1 mL								
6	MB-410-277007/6 N/A	N/A	300 g	250 mL				N/A	N/A	N/A	Concentration Blank	
			50 g	1 mL								

N-EXAP D; 40°C EB6 20094 7/26/22

*Reconstituted; AWK33126
7.26.22*

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277007

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:26:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 11

Pipette/Syringe/Dispenser ID P10-9, PFAS 4, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 3090607192233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277007

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:26:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277007

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:26:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-277007/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-277007/2	PFC_IN_BFS_00016	0.045 mL	1 mL		
LCS 410-277007/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-7	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-7 MS	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-7 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-7 MSD	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-7 MSD	PFC_SS_00012	0.100 mL	1 mL		
MB 410-277007/6	PFC_SS_00012	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
<i>Internal Standard</i>	<i>20 uL</i>	<i>PFC-IS-MOD-00365</i>

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 277008 Batch Start Date: 07/19/22 09:28 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00012
MB 410-277008/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-277008/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-8	MW-106S	3535, BFS	T	314.44 g	26.93 g	287.5 mL	1 mL		0.1 mL
410-90323-A-8 MS	MW-106S_MS	3535, BFS	T	319.16 g	27.03 g	292.1 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-8 MSD	MW-106S_MSD	3535, BFS	T	292.54 g	27.37 g	265.2 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-9	MW-103D	3535, BFS	T	310.79 g	27.55 g	283.2 mL	1 mL		0.1 mL
410-90323-A-10	MW-113D	3535, BFS	T	340.50 g	27.17 g	313.3 mL	1 mL		0.1 mL
410-90323-A-11	MW-113S	3535, BFS	T	320.73 g	27.51 g	293.2 mL	1 mL		0.1 mL
410-90323-A-12	DUP1_070722	3535, BFS	T	310.66 g	27.44 g	283.2 mL	1 mL		0.1 mL
410-90323-A-13	EB_070722	3535, BFS	T	311.31 g	28.13 g	283.2 mL	1 mL		0.1 mL
410-90323-A-14	DUP2_070722	3535, BFS	T	311.92 g	27.49 g	284.4 mL	1 mL		0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	6
Pipette/Syringe/Dispenser ID	P10-9, PFAS 4, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	3090607192233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277008

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:28:00AM

Method Code: 410-3535_28D-410

Batch End: **B410-277008**



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1	Adj2					
1	MB-410-277008/1 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
2	LCS-410-277008/2 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
3	410-90323-A-8 (BFS_IDA)	N/A (410-90323-1)	314.44 g 26.93 g	287.5 mL 1 mL				7/12/22	7_Days	4		
4	410-90323-A-8~MS (BFS_IDA)	N/A (410-90323-1)	319.16 g 27.03 g	292.1 mL 1 mL				7/12/22	7_Days	4		
5	410-90323-A-8~MSD (BFS_IDA)	N/A (410-90323-1)	292.54 g 27.37 g	265.2 mL 1 mL				7/12/22	7_Days	4		
6	410-90323-A-9 (BFS_IDA)	N/A (410-90323-1)	310.79 g 27.55 g	283.2 mL 1 mL				7/12/22	7_Days	4		
7	410-90323-A-10 (BFS_IDA)	N/A (410-90323-1)	340.50 g 27.17 g	313.3 mL 1 mL				7/12/22	7_Days	4		
8	410-90323-A-11 (BFS_IDA)	N/A (410-90323-1)	320.73 g 27.51 g	293.2 mL 1 mL				7/12/22	7_Days	4		
9	410-90323-A-12 (BFS_IDA)	N/A (410-90323-1)	310.66 g 27.44 g	283.2 mL 1 mL				7/12/22	7_Days	4		
10	410-90323-A-13 (BFS_IDA)	N/A (410-90323-1)	311.31 g 28.13 g	283.2 mL 1 mL				7/12/22	7_Days	4		

Printed: 7/19/2022

N-EVAP C; 40°C

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09/07/2022

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)



Batch Number: 410-277008

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:28:00AM

Method Code: 410-3535_28D-410

Batch End:

11	410-90323-A-14 (BFS_IDA)	N/A (410-90323-1)	311.92 g	284.4 mL				7/12/22	7_Days	4	 4 1 0 - 9 0 3 2 3 - A - 1 4 - A
			27.49 g	1 mL							
12	MB-410-277008/12 N/A	N/A	300 g	250 mL				N/A	N/A	N/A	Concentration Blank  M B 4 1 0 - 2 7 7 0 0 8 / 1 2 - A
			50 g	1 mL							

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277008

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:28:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 6

Pipette/Syringe/Dispenser ID P10-9, PFAS 4, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 3090607192233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277008

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:28:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277008

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:28:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-277008/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-277008/2	PFC_IN_BFS_00016	0.045 mL	1 mL		
LCS 410-277008/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-8	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-8 MS	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-8 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-8 MSD	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-8 MSD	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-9	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-10	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-11	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-12	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-13	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-14	PFC_SS_00012	0.100 mL	1 mL		
MB 410-277008/12	PFC_SS_00012	0.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277008

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:28:00AM

Method Code: 410-3535_28D-410

Batch End:

Other Reagents:		
Reagent	Amount/Units	Lot#:
Internal Standard	20ml	PFC-IS-MOD-00365

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 277011 Batch Start Date: 07/19/22 09:29 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00012
MB 410-277011/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-277011/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-1	MW-112S	3535, BFS	T	327.58 g	27.51 g	300.1 mL	1 mL		0.1 mL
410-90323-A-1 MS	MW-112S_MS	3535, BFS	T	333.37 g	27.11 g	306.3 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-1 MSD	MW-112S_MSD	3535, BFS	T	311.28 g	27.50 g	283.8 mL	1 mL	0.045 mL	0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	6
Pipette/Syringe/Dispenser ID	P10-9, PFAS 4, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	3090607192233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277011

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:29:00AM

Method Code: 410-3535_28D-410

Batch End: *F*410-277011

Solid-Phase Extraction (SPE)



	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1	Adj2					
1	MB~410-277011/1 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
2	LCS~410-277011/2 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
3	410-90323-A-1 (BFS_IDA)	N/A (410-90323-1)	327.58 g	300.1 mL				7/12/22	7_Days	4		
			27.51 g	1 mL								
4	410-90323-A-1~MS (BFS_IDA)	N/A (410-90323-1)	333.37 g	306.3 mL				7/12/22	7_Days	4		
			27.11 g	1 mL								
5	410-90323-A-1~MSD (BFS_IDA)	N/A (410-90323-1)	311.28 g	283.8 mL				7/12/22	7_Days	4		
			27.50 g	1 mL								
6	MB~410-277011/6 N/A	N/A	300 g	250 mL				N/A	N/A	N/A	Concentration Blank	
			50 g	1 mL								

N-EVAP D; 40°C EBG 20094 7/26/22

*Reconst. hhd. ANK3312
7-26-22*

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277011

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:29:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 6

Pipette/Syringe/Dispenser ID P10-9, PFAS 4, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 3090607192233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277011

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:29:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277011

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:29:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-277011/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-277011/2	PFC_IN_BFS_00016	0.045 mL	1 mL		
LCS 410-277011/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-1	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-1 MS	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-1 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-1 MSD	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-1 MSD	PFC_SS_00012	0.100 mL	1 mL		
MB 410-277011/6	PFC_SS_00012	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
<i>Internal Standard</i>	<i>20 µl</i>	<i>PFC-IS-MOD-00365</i>

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 277013 Batch Start Date: 07/19/22 09:33 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00012
MB 410-277013/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-277013/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-15	MW-102S	3535, BFS	T	317.43 g	27.46 g	290 mL	1 mL		0.1 mL
410-90323-A-15 MS	MW-102S_MS	3535, BFS	T	318.99 g	27.32 g	291.7 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-15 MSD	MW-102SMSD	3535, BFS	T	345.12 g	27.26 g	317.9 mL	1 mL	0.045 mL	0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	14
Pipette/Syringe/Dispenser ID	P10-9, PFAS 4, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	3090607192233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277013

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:33:00AM

Method Code: 410-3535_28D-410

Batch End: **B410-277013**



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1					
1	MB-410-277013/1 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A	
2	LCS-410-277013/2 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A	
3	410-90323-A-15 (BFS_IDA)	N/A (410-90323-1)	317.43 g 27.46 g	290 mL 1 mL				7/12/22	7_Days	4	
4	410-90323-A-15-MS (BFS_IDA)	N/A (410-90323-1)	318.99 g 27.32 g	291.7 mL 1 mL				7/12/22	7_Days	4	
5	410-90323-A-15-MSD (BFS_IDA)	N/A (410-90323-1)	345.12 g 27.26 g	317.9 mL 1 mL				7/12/22	7_Days	4	
6	MB-410-277013/6 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A	Concentration Blank

N-EVAP D; 40°C E96 20094 7/26/22

*Reconstituted: AWK 3/26
7-26-22*

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277013

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:33:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 14

Pipette/Syringe/Dispenser ID P10-9, PFAS 4, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 3090607192233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277013

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:33:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277013

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:33:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-277013/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-277013/2	PFC_IN_BFS_00016	0.045 mL	1 mL		
LCS 410-277013/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-15	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-15 MS	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-15 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-15 MSD	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-15 MSD	PFC_SS_00012	0.100 mL	1 mL		
MB 410-277013/6	PFC_SS_00012	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
<i>Internal Standard</i>	<i>20 ul</i>	<i>PFC-15-MOD-00365</i>

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 277014 Batch Start Date: 07/19/22 09:34 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00012
MB 410-277014/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-277014/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-2	MW-112D	3535, BFS	T	335.39 g	27.26 g	308.1 mL	1 mL		0.1 mL
410-90323-A-2	MW-112D_MS	3535, BFS	T	312.21 g	27.34 g	284.9 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-2	MW-112D_MSD	3535, BFS	T	342.63 g	27.25 g	315.4 mL	1 mL	0.045 mL	0.1 mL
410-90323-A-3	MW-103S	3535, BFS	T	315.18 g	27.63 g	287.6 mL	1 mL		0.1 mL
410-90323-A-4	FB_070622	3535, BFS	T	314.44 g	27.50 g	286.9 mL	1 mL		0.1 mL
410-90323-A-5	EB_070622	3535, BFS	T	296.22 g	26.98 g	269.2 mL	1 mL		0.1 mL
410-90323-A-6	DUP1_070622	3535, BFS	T	336.99 g	27.43 g	309.6 mL	1 mL		0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	14
Pipette/Syringe/Dispenser ID	P10-9, PFAS 4, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	3090607192233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277014

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:34:00AM

Method Code: 410-3535_28D-410

Batch End: B410-277014



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	Rcvd	PHs Adj1	Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB-410-277014/1 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
2	LCS-410-277014/2 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
3	410-90323-A-2 (BFS_IDA)	N/A (410-90323-1)	335.39 g	308.1 mL				7/12/22	7_Days	4		
			27.26 g	1 mL								
4	410-90323-A-2-MS (BFS_IDA)	N/A (410-90323-1)	312.21 g	284.9 mL				7/12/22	7_Days	4		
			27.34 g	1 mL								
5	410-90323-A-2-MSD (BFS_IDA)	N/A (410-90323-1)	342.63 g	315.4 mL				7/12/22	7_Days	4		
			27.25 g	1 mL								
6	410-90323-A-3 (BFS_IDA)	N/A (410-90323-1)	315.18 g	287.6 mL				7/12/22	7_Days	4		
			27.63 g	1 mL								
7	410-90323-A-4 (BFS_IDA)	N/A (410-90323-1)	314.44 g	286.9 mL				7/12/22	7_Days	4		
			27.50 g	1 mL								
8	410-90323-A-5 (BFS_IDA)	N/A (410-90323-1)	296.22 g	269.2 mL				7/12/22	7_Days	4		
			26.98 g	1 mL								
9	410-90323-A-6 (BFS_IDA)	N/A (410-90323-1)	336.99 g	309.6 mL				7/12/22	7_Days	4		
			27.43 g	1 mL								
10	MB-410-277014/10 N/A	N/A	300 g	250 mL				N/A	N/A	N/A	Concentration Blank	
			50 g	1 mL								

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277014

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:34:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 14

Pipette/Syringe/Dispenser ID P10-9, PFAS 4, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 3090607192233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277014

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:34:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277014

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:34:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-277014/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-277014/2	PFC_IN_BFS_00016	0.045 mL	1 mL		
LCS 410-277014/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-2 MS	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-2 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-2 MSD	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90323-A-2 MSD	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-3	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-4	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-5	PFC_SS_00012	0.100 mL	1 mL		
410-90323-A-6	PFC_SS_00012	0.100 mL	1 mL		
MB 410-277014/10	PFC_SS_00012	0.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277014

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:34:00AM

Method Code: 410-3535_28D-410

Batch End:

Other Reagents:		
Reagent	Amount/Units	Lot#:
Internal Standard	20 ul	PFC-15-MOD-00365

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 279955 Batch Start Date: 07/27/22 11:52 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-279955/1		BFS					200 uL		
IC 410-279955/2		BFS							200 uL
IC 410-279955/3		BFS							
IC 410-279955/4		BFS							
ICISAV 410-279955/5		BFS							
IC 410-279955/6		BFS							
IC 410-279955/7		BFS							
IC 410-279955/8		BFS							
IC 410-279955/9		BFS							
IC 410-279955/10		BFS						200 uL	
ICB 410-279955/11		BFS			10 uL	50 uL			
ICV 410-279955/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-279955/1		BFS							
IC 410-279955/2		BFS							
IC 410-279955/3		BFS		200 uL					
IC 410-279955/4		BFS			200 uL				
ICISAV 410-279955/5		BFS				200 uL			
IC 410-279955/6		BFS					200 uL		
IC 410-279955/7		BFS						200 uL	
IC 410-279955/8		BFS							200 uL
IC 410-279955/9		BFS							
IC 410-279955/10		BFS							
ICB 410-279955/11		BFS							
ICV 410-279955/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 279955 Batch Start Date: 07/27/22 11:52 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-279955/1		BFS							
IC 410-279955/2		BFS							
IC 410-279955/3		BFS							
IC 410-279955/4		BFS							
ICISAV 410-279955/5		BFS							
IC 410-279955/6		BFS							
IC 410-279955/7		BFS							
IC 410-279955/8		BFS							
IC 410-279955/9		BFS		200 uL					
IC 410-279955/10		BFS							
ICB 410-279955/11		BFS							
ICV 410-279955/12		BFS							

Batch Notes	
Mobil Phase ID	2732107222233A; 2732107222233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MFS_IDA

Mono-functional Surfactants (MFS) by
LC/MS/MS using Isotope Dilution

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-112S	410-90323-1	118
MW-112D	410-90323-2	120
MW-103S	410-90323-3	98
FB_070622	410-90323-4	102
EB_070622	410-90323-5	113
DUP1_070622	410-90323-6	117
MW-106D	410-90323-7	101
MW-106S	410-90323-8	110
MW-103D	410-90323-9	104
MW-113D	410-90323-10	100
MW-113S	410-90323-11	112
DUP1_070722	410-90323-12	109
EB_070722	410-90323-13	119
DUP2_070722	410-90323-14	125
MW-102S	410-90323-15	108
	MB 410-277012/1-A	118
	MB 410-278614/1-A	96
	MB 410-278617/1-A	104
	MB 410-278618/1-A	109
	MB 410-279532/1-A	85
	LCS 410-277012/2-A	122
	LCS 410-278614/2-A	110
	LCS 410-278617/2-A	106
	LCS 410-278618/2-A	105
	LCS 410-279532/2-A	89
MW-112S_MS MS	410-90323-1 MS	116
MW-112D_MS MS	410-90323-2 MS	97
MW-106D_MS MS	410-90323-7 MS	103
MW-106S_MS MS	410-90323-8 MS	106
MW-102S_MS MS	410-90323-15 MS	105

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II MFS

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-112S_MSD MSD	410-90323-1 MSD	123
MW-112D_MSD MSD	410-90323-2 MSD	103
MW-106D_MSD MSD	410-90323-7 MSD	97
MW-106S_MSD MSD	410-90323-8 MSD	89
MW-102SMSD MSD	410-90323-15 MSD	98

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II MFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUL27MFS-22.d

Lab ID: LCS 410-277012/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	37.9	98	70-130	
MFS_M3	39.4	38.1	97	70-130	
MFS_N3	40.1	38.2	95	70-130	
MFS_M4	39.3	37.3	95	70-130	
MFS_N4	39.8	35.3	89	70-130	
MFS_N5	40.4	39.4	97	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUL27MFS-02.d

Lab ID: LCS 410-278614/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	38.3	99	70-130	
MFS_M3	39.4	36.7	93	70-130	
MFS_N3	40.1	35.6	89	70-130	
MFS_M4	39.3	33.7	86	70-130	
MFS_N4	39.8	33.1	83	70-130	
MFS_N5	40.4	36.1	89	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUL25MFS-30.d

Lab ID: LCS 410-278617/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	39.0	101	70-130	
MFS_M3	39.4	38.9	99	70-130	
MFS_N3	40.1	37.7	94	70-130	
MFS_M4	39.3	36.6	93	70-130	
MFS_N4	39.8	35.5	89	70-130	
MFS_N5	40.4	34.3	85	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22JUL28MFS-02.d

Lab ID: LCS 410-278618/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	39.0	101	70-130	
MFS_M3	39.4	39.0	99	70-130	
MFS_N3	40.1	40.3	101	70-130	
MFS_M4	39.3	37.9	97	70-130	
MFS_N4	39.8	37.2	94	70-130	
MFS_N5	40.4	39.9	99	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG5MFS-03.d

Lab ID: LCS 410-279532/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	41.7	108	70-130	
MFS_M3	39.4	42.4	108	70-130	
MFS_N3	40.1	40.3	101	70-130	
MFS_M4	39.3	42.0	107	70-130	
MFS_N4	39.8	41.7	105	70-130	
MFS_N5	40.4	41.7	103	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL28MFS-05.d

Lab ID: 410-90323-1 MS

Client ID: MW-112S_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	32.2	ND	31.0	96	70-130	
MFS_M3	32.9	ND	34.6	105	70-130	
MFS_N3	33.5	ND	35.5	106	70-130	
MFS_M4	32.8	ND	33.7	103	70-130	
MFS_N4	33.3	ND	35.0	105	70-130	
MFS_N5	33.8	ND	34.8	103	70-130	

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27MFS-03.d

Lab ID: 410-90323-2 MS

Client ID: MW-112D_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	30.9	ND	29.3	95	70-130	
MFS_M3	31.6	ND	29.2	93	70-130	
MFS_N3	32.1	ND	30.5	95	70-130	
MFS_M4	31.5	ND	24.3	77	70-130	
MFS_N4	31.9	ND	23.5	74	70-130	
MFS_N5	32.4	ND	17.4	54	70-130	F1

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL25MFS-32.d

Lab ID: 410-90323-7 MS

Client ID: MW-106D_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	31.1	8.8	41.0	103	70-130	
MFS_M3	31.8	2.8	38.8	113	70-130	
MFS_N3	32.3	12	49.3	115	70-130	
MFS_M4	31.7	ND	33.2	105	70-130	
MFS_N4	32.1	ND	31.9	99	70-130	
MFS_N5	32.6	ND	24.5	75	70-130	

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL28MFS-03.d

Lab ID: 410-90323-8 MS

Client ID: MW-106S_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	33.1	2.2	36.4	104	70-130	
MFS_M3	33.8	ND	34.5	102	70-130	
MFS_N3	34.4	0.45 J	41.3	119	70-130	
MFS_M4	33.7	ND	42.4	126	70-130	
MFS_N4	34.2	1.1 J	41.0	117	70-130	
MFS_N5	34.7	ND	27.3	79	70-130	

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22AUG5MFS-05.d

Lab ID: 410-90323-15 MS

Client ID: MW-102S_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	31.9	4.3	31.8	86	70-130	
MFS_M3	32.6	ND	28.2	87	70-130	
MFS_N3	33.1	ND	29.4	89	70-130	
MFS_M4	32.5	ND	30.6	94	70-130	
MFS_N4	32.9	ND	31.4	95	70-130	
MFS_N5	33.4	ND	27.4	82	70-130	

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL28MFS-06.d

Lab ID: 410-90323-1 MSD

Client ID: MW-112S_MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	32.5	30.5	94	2	30	70-130	
MFS_M3	33.2	32.3	98	7	30	70-130	
MFS_N3	33.7	32.5	97	9	30	70-130	
MFS_M4	33.1	31.8	96	6	30	70-130	
MFS_N4	33.5	33.0	98	6	30	70-130	
MFS_N5	34.0	32.3	95	7	30	70-130	

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27MFS-04.d

Lab ID: 410-90323-2 MSD

Client ID: MW-112D_MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	30.6	29.9	98	2	30	70-130	
MFS_M3	31.2	29.4	94	1	30	70-130	
MFS_N3	31.8	29.8	94	2	30	70-130	
MFS_M4	31.1	19.7	63	21	30	70-130	F1
MFS_N4	31.6	16.6	53	34	30	70-130	F1 F2
MFS_N5	32.0	6.25	20	94	30	70-130	F1 F2

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL27MFS-06.d

Lab ID: 410-90323-7 MSD

Client ID: MW-106D MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	33.3	40.4	95	1	30	70-130	
MFS_M3	34.0	37.0	101	5	30	70-130	
MFS_N3	34.5	46.3	99	6	30	70-130	
MFS_M4	33.9	33.8	100	2	30	70-130	
MFS_N4	34.3	32.4	94	2	30	70-130	
MFS_N5	34.8	28.7	82	16	30	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22JUL28MFS-04.d

Lab ID: 410-90323-8 MSD

Client ID: MW-106S MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	33.2	36.3	103	0	30	70-130	
MFS_M3	33.9	33.2	98	4	30	70-130	
MFS_N3	34.5	39.7	114	4	30	70-130	
MFS_M4	33.8	39.4	117	7	30	70-130	
MFS_N4	34.3	37.9	107	8	30	70-130	
MFS_N5	34.8	33.3	96	20	30	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22AUG5MFS-06.d

Lab ID: 410-90323-15 MSD

Client ID: MW-102SMSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	32.9	36.0	96	12	30	70-130	
MFS_M3	33.6	35.6	106	23	30	70-130	
MFS_N3	34.2	36.7	107	22	30	70-130	
MFS_M4	33.5	33.7	101	10	30	70-130	
MFS_N4	34.0	35.1	103	11	30	70-130	
MFS_N5	34.5	32.1	93	16	30	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 22JUL27MFS-21.d Lab Sample ID: MB 410-277012/1-A

Matrix: Water Date Extracted: 07/19/2022 09:31

Instrument ID: 30733 Date Analyzed: 07/28/2022 07:43

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-277012/2-A	22JUL27MFS-22.d	07/28/2022 07:55
MW-112S	410-90323-1	22JUL27MFS-23.d	07/28/2022 08:08
MW-112S_MS MS	410-90323-1 MS	22JUL28MFS-05.d	07/28/2022 10:52
MW-112S_MSD MSD	410-90323-1 MSD	22JUL28MFS-06.d	07/28/2022 11:05

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Lab File ID: 22JUL25MFS-36.d

Lab Sample ID: MB 410-278614/1-A

Matrix: Water

Date Extracted: 07/22/2022 12:46

Instrument ID: 30733

Date Analyzed: 07/25/2022 21:23

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-112D	410-90323-2	22JUL25MFS-38.d	07/25/2022 21:48
MW-103S	410-90323-3	22JUL25MFS-41.d	07/25/2022 22:25
FB_070622	410-90323-4	22JUL25MFS-42.d	07/25/2022 22:38
EB_070622	410-90323-5	22JUL25MFS-43.d	07/25/2022 22:51
DUP1_070622	410-90323-6	22JUL25MFS-44.d	07/25/2022 23:03
	LCS 410-278614/2-A	22JUL27MFS-02.d	07/28/2022 03:43
MW-112D_MS MS	410-90323-2 MS	22JUL27MFS-03.d	07/28/2022 03:56
MW-112D_MSD MSD	410-90323-2 MSD	22JUL27MFS-04.d	07/28/2022 04:09

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 22JUL25MFS-29.d Lab Sample ID: MB 410-278617/1-A

Matrix: Water Date Extracted: 07/22/2022 12:47

Instrument ID: 30733 Date Analyzed: 07/25/2022 19:54

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-278617/2-A	22JUL25MFS-30.d	07/25/2022 20:07
MW-106D	410-90323-7	22JUL25MFS-31.d	07/25/2022 20:19
MW-106D_MS MS	410-90323-7 MS	22JUL25MFS-32.d	07/25/2022 20:32
MW-106D_MSD MSD	410-90323-7 MSD	22JUL27MFS-06.d	07/28/2022 04:34

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90323-1

SDG No.:

Lab File ID: 22JUL27MFS-08.d

Lab Sample ID: MB 410-278618/1-A

Matrix: Water

Date Extracted: 07/22/2022 12:49

Instrument ID: 30733

Date Analyzed: 07/28/2022 04:59

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-106S	410-90323-8	22JUL27MFS-10.d	07/28/2022 05:24
MW-103D	410-90323-9	22JUL27MFS-13.d	07/28/2022 06:02
MW-113D	410-90323-10	22JUL27MFS-14.d	07/28/2022 06:15
MW-113S	410-90323-11	22JUL27MFS-15.d	07/28/2022 06:27
DUP1_070722	410-90323-12	22JUL27MFS-16.d	07/28/2022 06:40
EB_070722	410-90323-13	22JUL27MFS-17.d	07/28/2022 06:52
DUP2_070722	410-90323-14	22JUL27MFS-18.d	07/28/2022 07:05
	LCS 410-278618/2-A	22JUL28MFS-02.d	07/28/2022 10:14
MW-106S_MS MS	410-90323-8 MS	22JUL28MFS-03.d	07/28/2022 10:27
MW-106S_MSD MSD	410-90323-8 MSD	22JUL28MFS-04.d	07/28/2022 10:39

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 22AUG5MFS-02.d Lab Sample ID: MB 410-279532/1-A

Matrix: Water Date Extracted: 07/26/2022 09:35

Instrument ID: 30733 Date Analyzed: 08/05/2022 12:31

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-279532/2-A	22AUG5MFS-03.d	08/05/2022 12:44
MW-102S	410-90323-15	22AUG5MFS-04.d	08/05/2022 12:56
MW-102S_MS MS	410-90323-15 MS	22AUG5MFS-05.d	08/05/2022 13:09
MW-102SMSD MSD	410-90323-15 MSD	22AUG5MFS-06.d	08/05/2022 13:21

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90323-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 07/25/2022 11:27
 Calibration ID: 41221

		13PFOA			
		AREA #	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3663577	4.98		
UPPER LIMIT		5495366	5.38		
LOWER LIMIT		1831789	4.58		
LAB SAMPLE ID	CLIENT SAMPLE ID				
ICB 410-279067/8		3480343	4.98		
ICV 410-279067/9		3873459	4.97		
CCV 410-279218/12		3619628	4.96		
MB 410-278617/1-A		3444041	4.97		
LCS 410-278617/2-A		3488713	4.97		
410-90323-7	MW-106D	2814607	4.98		
410-90323-7 MS	MW-106D_MS MS	2783325	4.98		
CCV 410-279218/25		3575007	4.97		
MB 410-278614/1-A		3977579	4.97		
410-90323-2	MW-112D	2806140	4.98		
410-90323-3	MW-103S	2559735	4.98		
410-90323-4	FB_070622	3241211	4.97		
410-90323-5	EB_070622	3510198	4.97		
410-90323-6	DUP1_070622	2736303	4.98		
CCVL 410-279218/36		3558674	4.97		
CCVL 410-280074/1		3577919	4.98		
LCS 410-278614/2-A		3526009	4.98		
410-90323-2 MS	MW-112D_MS MS	3249030	4.98		
410-90323-2 MSD	MW-112D_MSD MSD	2978607	4.99		
410-90323-7 MSD	MW-106D_MSD MSD	3293519	4.98		
CCV 410-280074/7		3672030	4.97		
MB 410-278618/1-A		3212201	4.98		
410-90323-8	MW-106S	2984054	4.98		
410-90323-9	MW-103D	2930524	4.98		
410-90323-10	MW-113D	3089665	4.98		
410-90323-11	MW-113S	2837478	4.98		
410-90323-12	DUP1_070722	2826250	4.97		
410-90323-13	EB_070722	3309011	4.97		
410-90323-14	DUP2_070722	2897700	4.97		
CCV 410-280074/20		3753979	4.96		

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90323-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 07/25/2022 11:27
 Calibration ID: 41221

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3663577	4.98				
UPPER LIMIT		5495366	5.38				
LOWER LIMIT		1831789	4.58				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-277012/1-A		3322688	4.98				
LCS 410-277012/2-A		3440526	4.98				
410-90323-1	MW-112S	3009201	4.98				
CCVL 410-280074/27		3718638	4.97				
CCVL 410-280443/1		3740457	4.99				
LCS 410-278618/2-A		3752834	4.99				
410-90323-8 MS	MW-106S_MS MS	3072755	4.98				
410-90323-8 MSD	MW-106S_MSD MSD	3476053	4.98				
410-90323-1 MS	MW-112S_MS MS	3091857	4.98				
410-90323-1 MSD	MW-112S_MSD MSD	3341193	4.99				
CCV 410-280443/7		3797223	4.97				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90323-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2022 10:08
 Calibration ID: 41512

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3261205	5.00				
UPPER LIMIT		4891808	5.40				
LOWER LIMIT		1630603	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-283151/8		3128259	5.00				
ICV 410-283151/9		3414636	4.99				
CCVL 410-283250/1		3295947	5.01				
MB 410-279532/1-A		3731777	5.01				
LCS 410-279532/2-A		3757354	5.01				
410-90323-15	MW-102S	3151496	5.01				
410-90323-15 MS	MW-102S_MS MS	3100510	5.00				
410-90323-15 MSD	MW-102SMSD MSD	3132492	5.01				
CCV 410-283250/7		3294826	5.00				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S Lab Sample ID: 410-90323-1

Matrix: Water Lab File ID: 22JUL27MFS-23.d

Analysis Method: MFS Date Collected: 07/06/2022 13:35

Extraction Method: 3535 Date Extracted: 07/19/2022 09:31

Sample wt/vol: 296.7(mL) Date Analyzed: 07/28/2022 08:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.84	0.17
STL02874	MFS_M3	ND		0.84	0.17
STL02875	MFS_N3	ND		0.84	0.17
STL02876	MFS_M4	ND		0.84	0.42
STL02877	MFS_N4	ND		1.7	0.84
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	118		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-23.d
 Lims ID: 410-90323-B-1-A
 Client ID: MW-112S
 Sample Type: Client
 Inject. Date: 28-Jul-2022 08:08:24 ALS Bottle#: 28 Worklist Smp#: 23
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-023
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 09:14:42 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 09:14:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.878	748720	5.92	118	2213
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3009201	5.00		2841

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-23.d

Injection Date: 28-Jul-2022 08:08:24

Instrument ID: 30733

Lims ID: 410-90323-B-1-A

Lab Sample ID: 410-90323-1

Client ID: MW-112S

Operator ID: US19_USR_INS20260

ALS Bottle#: 28

Worklist Smp#: 23

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

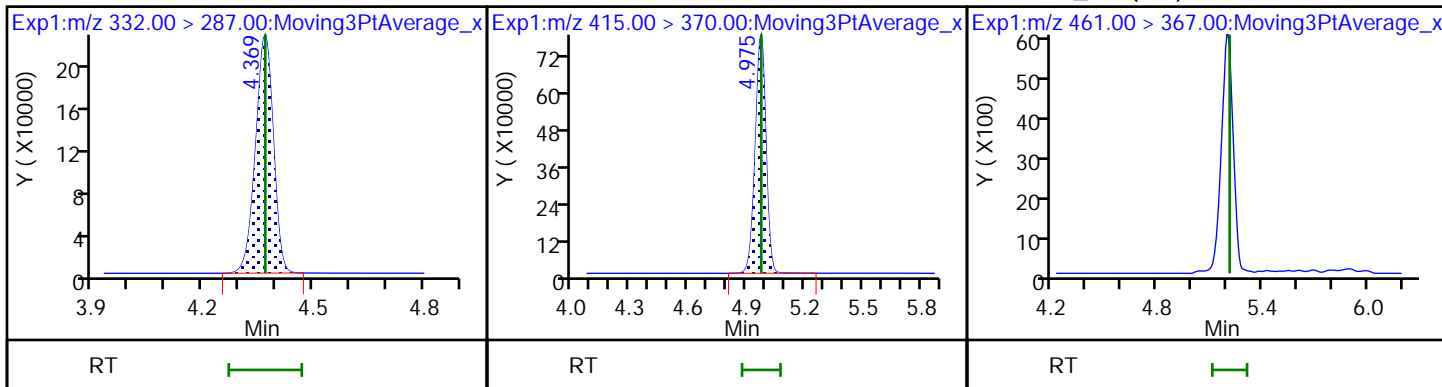
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

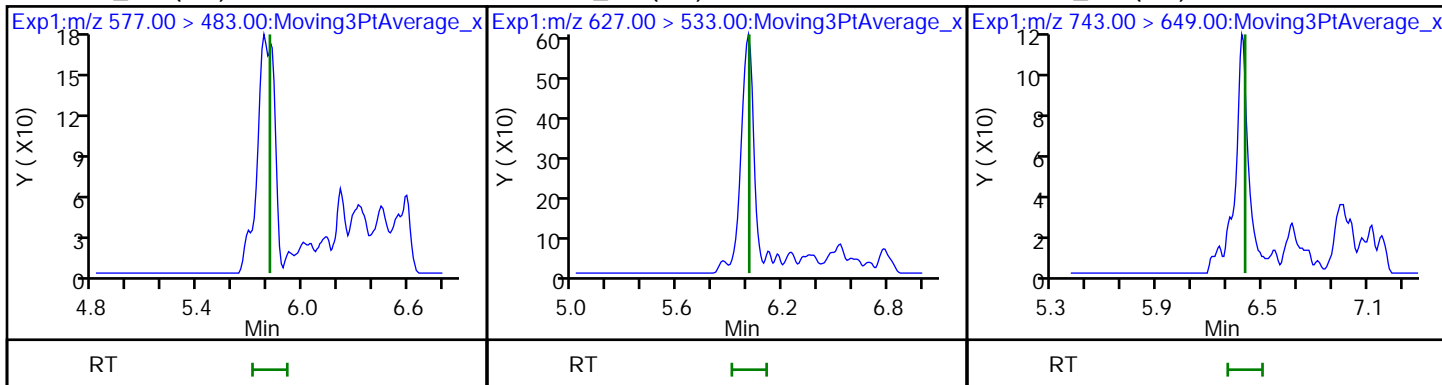
3 MFS_N2 (ND)



4 MFS_M3 (ND)

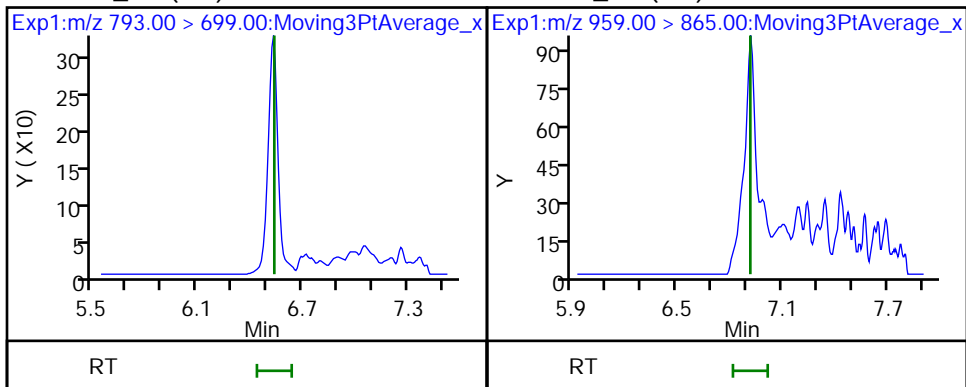
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112D Lab Sample ID: 410-90323-2

Matrix: Water Lab File ID: 22JUL25MFS-38.d

Analysis Method: MFS Date Collected: 07/06/2022 15:25

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 295.4(mL) Date Analyzed: 07/25/2022 21:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.85	0.17
STL02874	MFS_M3	ND		0.85	0.17
STL02875	MFS_N3	ND		0.85	0.17
STL02876	MFS_M4	ND	F1	0.85	0.42
STL02877	MFS_N4	ND	F2 F1	1.7	0.85
STL02888	MFS_N5	ND	F1 F2	2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	120		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-38.d
 Lims ID: 410-90323-B-2-A
 Client ID: MW-112D
 Sample Type: Client
 Inject. Date: 25-Jul-2022 21:48:16 ALS Bottle#: 34 Worklist Smp#: 28
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-028
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:12:01
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.370 4.369 0.001 0.878 705672 5.98 120 2493
 * 2 13C2 PFOA
 415.00 > 370.00 4.976 4.975 0.001 2806140 5.00 4117

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-38.d

Injection Date: 25-Jul-2022 21:48:16

Instrument ID: 30733

Lims ID: 410-90323-B-2-A

Lab Sample ID: 410-90323-2

Client ID: MW-112D

Operator ID: US19_USR_INS20260

ALS Bottle#: 34

Worklist Smp#: 28

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

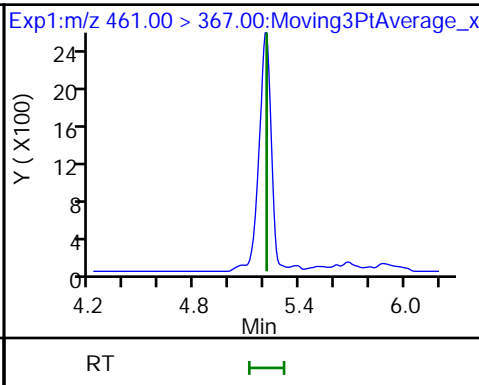
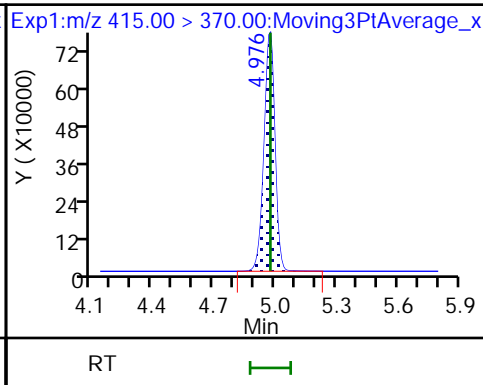
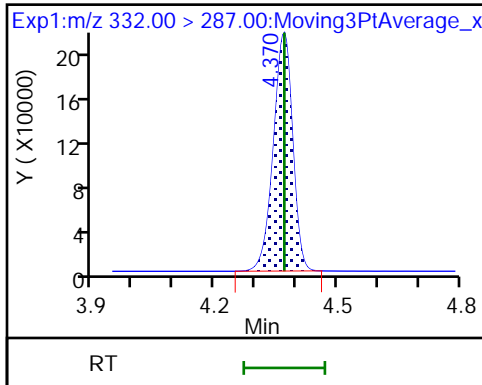
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

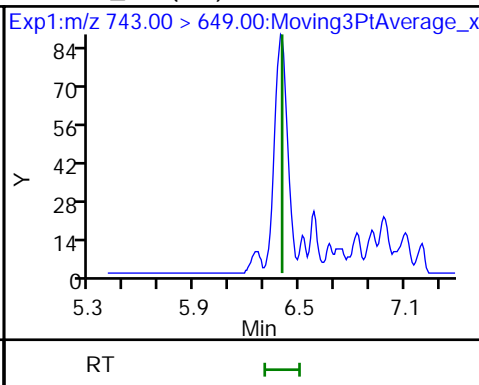
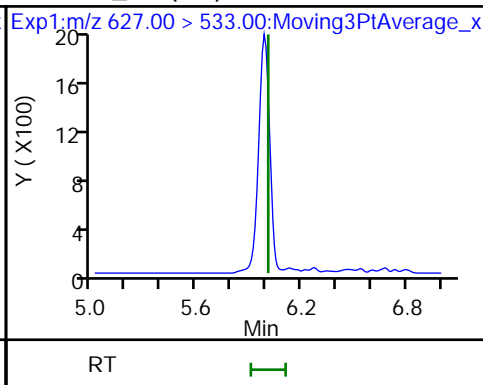
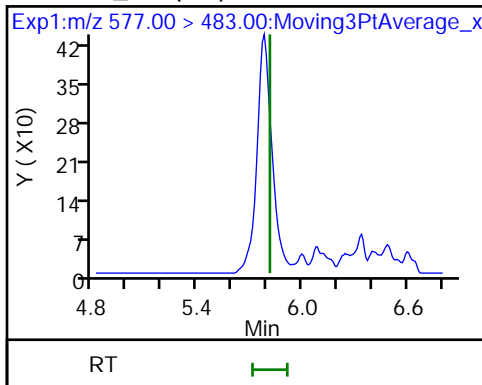
3 MFS_N2 (ND)



4 MFS_M3 (ND)

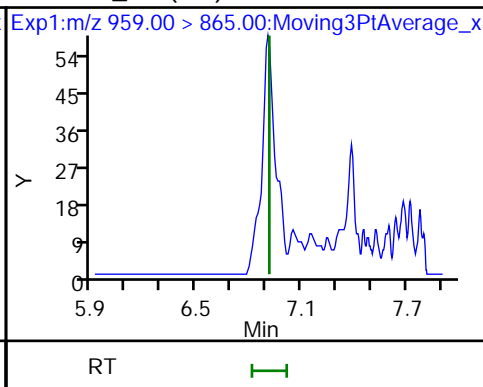
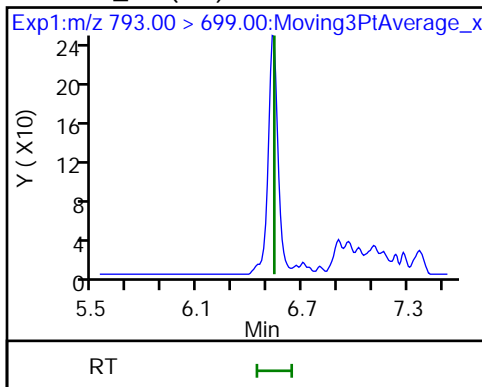
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-103S Lab Sample ID: 410-90323-3

Matrix: Water Lab File ID: 22JUL25MFS-41.d

Analysis Method: MFS Date Collected: 07/06/2022 14:35

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 296.8(mL) Date Analyzed: 07/25/2022 22:25

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	12		0.84	0.17
STL02874	MFS_M3	3.0		0.84	0.17
STL02875	MFS_N3	8.7		0.84	0.17
STL02876	MFS_M4	ND		0.84	0.42
STL02877	MFS_N4	ND		1.7	0.84
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-41.d
 Lims ID: 410-90323-B-3-A
 Client ID: MW-103S
 Sample Type: Client
 Inject. Date: 25-Jul-2022 22:25:59 ALS Bottle#: 37 Worklist Smp#: 31
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-3-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-031
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:12:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.372	4.369	0.003	0.878	529511	4.92	98.4	2026
* 2 13C2 PFOA	415.00 > 370.00	4.978	4.975	0.003		2559735	5.00		2570
3 MFS_N2	461.00 > 367.00	5.193	5.211	-0.018	1.188	960500	3.47		5713
4 MFS_M3	577.00 > 483.00	5.775	5.812	-0.037	1.321	207646	0.8969		984
5 MFS_N3	627.00 > 533.00	5.994	6.009	-0.015	1.371	642341	2.59		2099

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-41.d

Injection Date: 25-Jul-2022 22:25:59

Instrument ID: 30733

Lims ID: 410-90323-B-3-A

Lab Sample ID: 410-90323-3

Client ID: MW-103S

Operator ID: US19_USR_INS20260

ALS Bottle#: 37

Worklist Smp#: 31

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

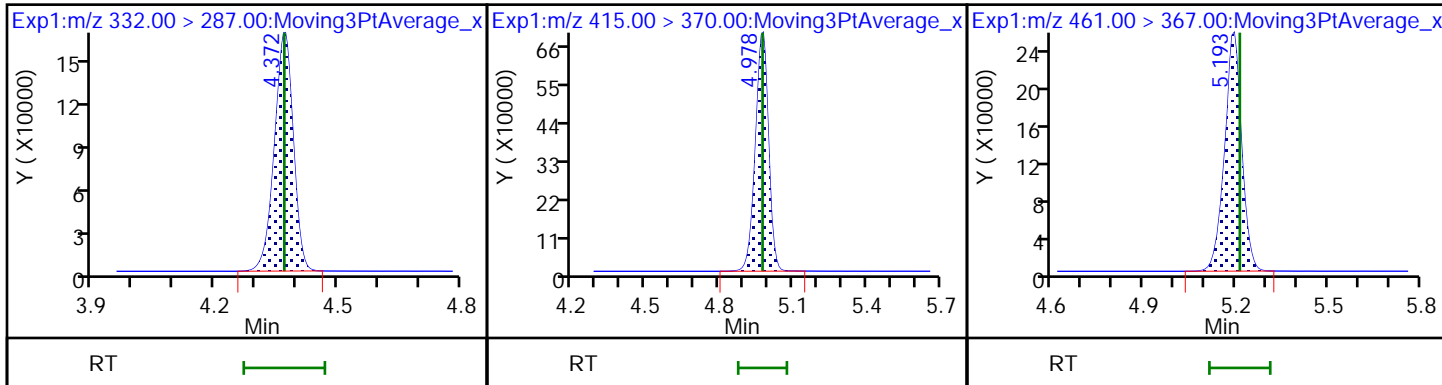
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

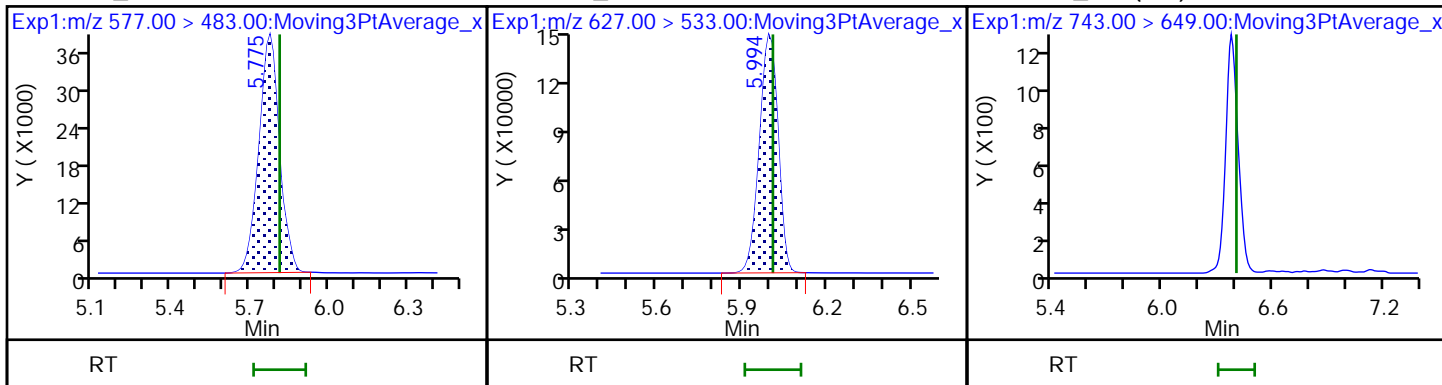
3 MFS_N2



4 MFS_M3

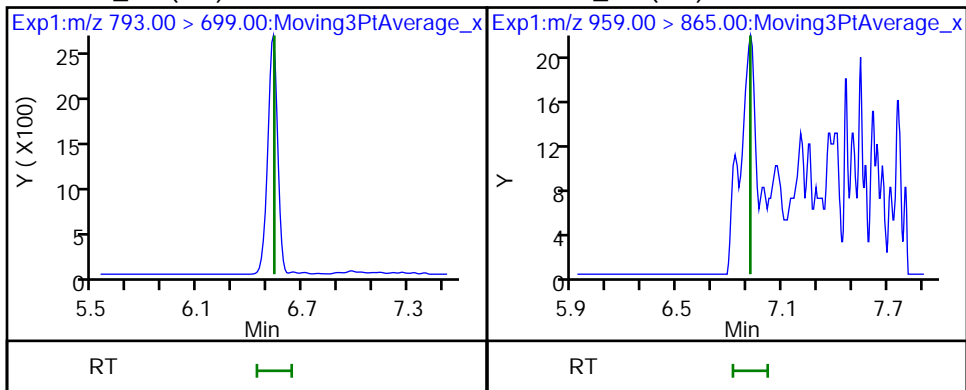
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: FB_070622 Lab Sample ID: 410-90323-4

Matrix: Water Lab File ID: 22JUL25MFS-42.d

Analysis Method: MFS Date Collected: 07/06/2022 14:30

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 275.6(mL) Date Analyzed: 07/25/2022 22:38

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.91	0.18
STL02874	MFS_M3	ND		0.91	0.18
STL02875	MFS_N3	ND		0.91	0.18
STL02876	MFS_M4	ND		0.91	0.45
STL02877	MFS_N4	ND		1.8	0.91
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-42.d
 Lims ID: 410-90323-B-4-A
 Client ID: FB_070622
 Sample Type: Client
 Inject. Date: 25-Jul-2022 22:38:33 ALS Bottle#: 38 Worklist Smp#: 32
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-4-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-032
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:12:25
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.879	693012	5.08	102	2652
* 2 13C2 PFOA	415.00 > 370.00	4.972	4.975	-0.003		3241211	5.00		3687

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-42.d

Injection Date: 25-Jul-2022 22:38:33

Instrument ID: 30733

Lims ID: 410-90323-B-4-A

Lab Sample ID: 410-90323-4

Client ID: FB_070622

Operator ID: US19_USR_INS20260

ALS Bottle#: 38

Worklist Smp#: 32

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

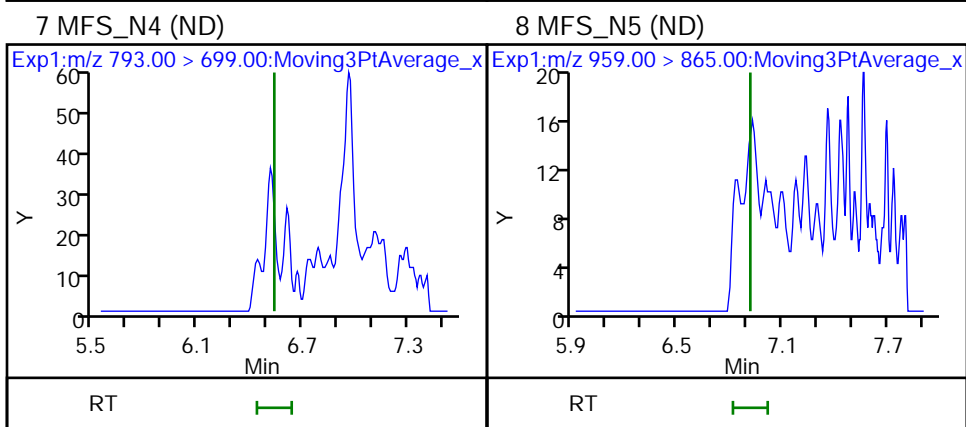
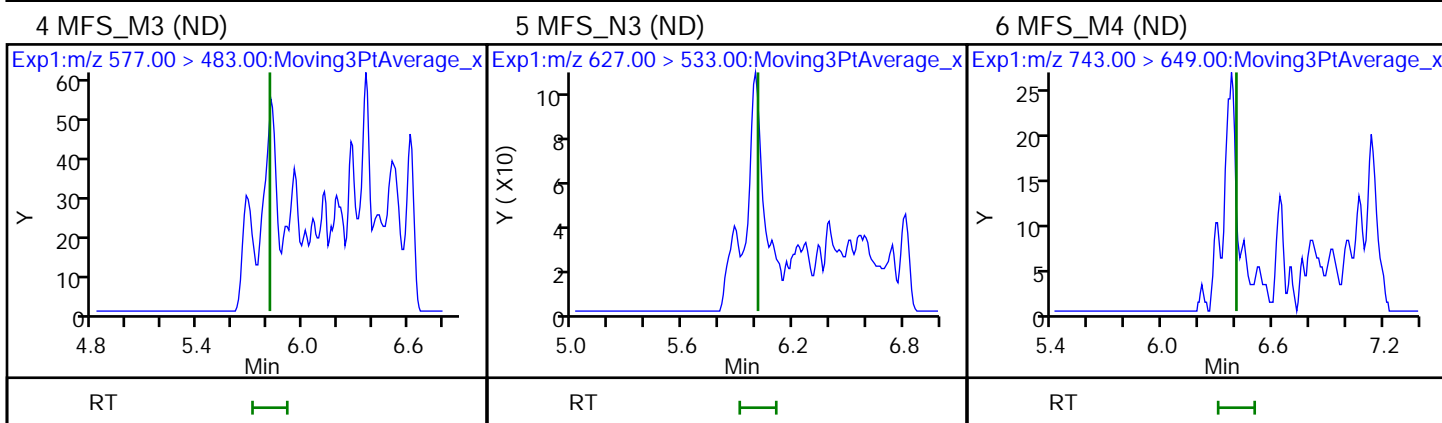
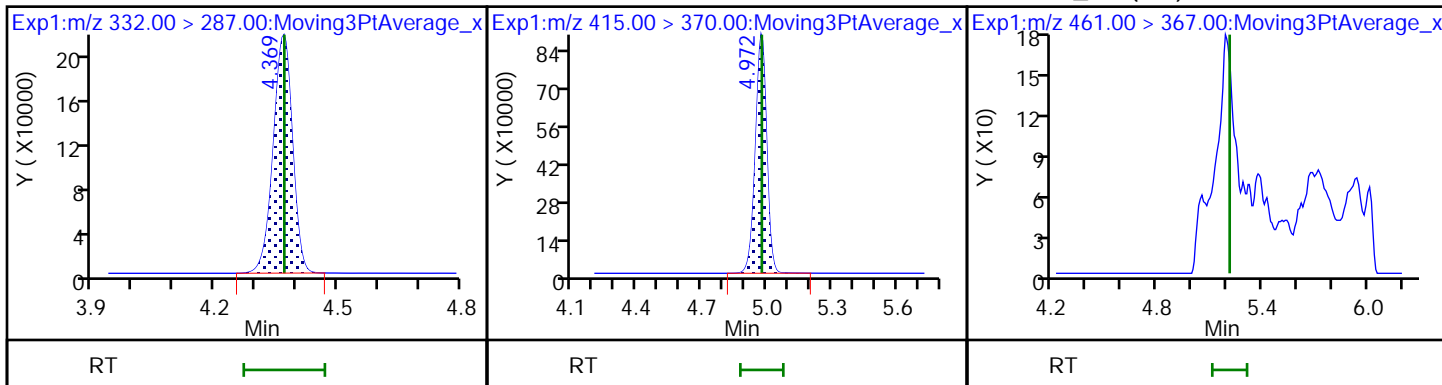
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_070622 Lab Sample ID: 410-90323-5

Matrix: Water Lab File ID: 22JUL25MFS-43.d

Analysis Method: MFS Date Collected: 07/06/2022 14:35

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 277(mL) Date Analyzed: 07/25/2022 22:51

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.90	0.18
STL02874	MFS_M3	ND		0.90	0.18
STL02875	MFS_N3	ND		0.90	0.18
STL02876	MFS_M4	ND		0.90	0.45
STL02877	MFS_N4	ND		1.8	0.90
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-43.d
 Lims ID: 410-90323-B-5-A
 Client ID: EB_070622
 Sample Type: Client
 Inject. Date: 25-Jul-2022 22:51:09 ALS Bottle#: 39 Worklist Smp#: 33
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-5-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-033
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:12:30
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.365 4.369 -0.004 0.879 836621 5.67 113 2689
 * 2 13C2 PFOA
 415.00 > 370.00 4.968 4.975 -0.007 3510198 5.00 3695

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-43.d

Injection Date: 25-Jul-2022 22:51:09

Instrument ID: 30733

Lims ID: 410-90323-B-5-A

Lab Sample ID: 410-90323-5

Client ID: EB_070622

Operator ID: US19_USR_INS20260

ALS Bottle#: 39

Worklist Smp#: 33

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

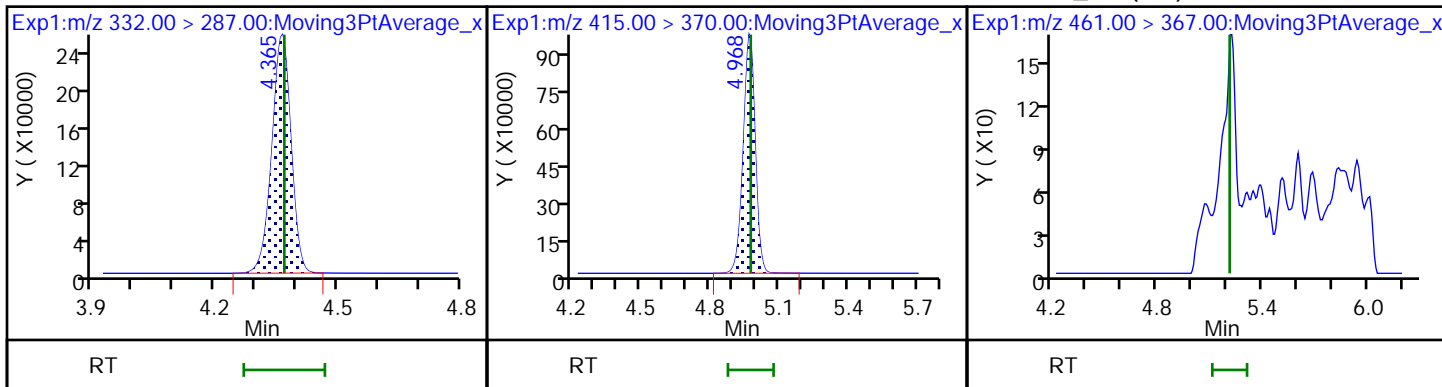
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

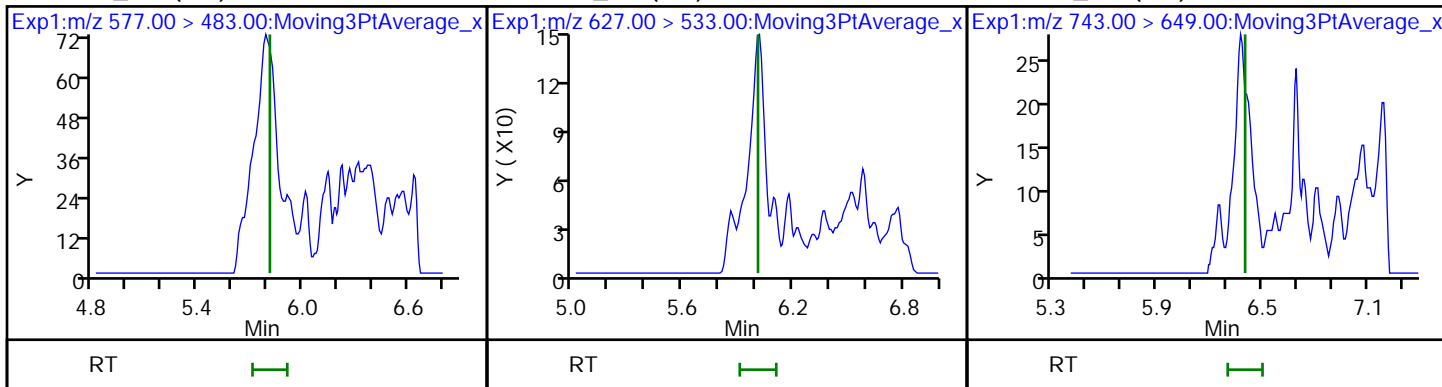
3 MFS_N2 (ND)



4 MFS_M3 (ND)

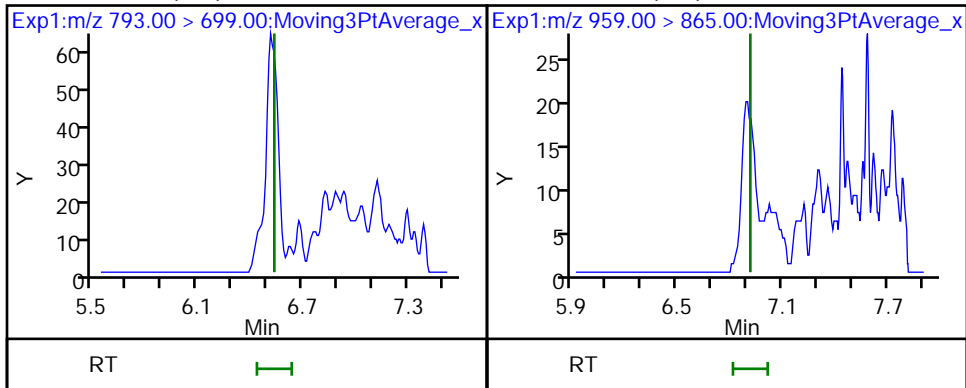
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP1_070622 Lab Sample ID: 410-90323-6

Matrix: Water Lab File ID: 22JUL25MFS-44.d

Analysis Method: MFS Date Collected: 07/06/2022 00:00

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 293.3(mL) Date Analyzed: 07/25/2022 23:03

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.85	0.17
STL02874	MFS_M3	ND		0.85	0.17
STL02875	MFS_N3	ND		0.85	0.17
STL02876	MFS_M4	ND		0.85	0.43
STL02877	MFS_N4	ND		1.7	0.85
STL02888	MFS_N5	ND		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	117		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-44.d
 Lims ID: 410-90323-B-6-A
 Client ID: DUP1_070622
 Sample Type: Client
 Inject. Date: 25-Jul-2022 23:03:44 ALS Bottle#: 40 Worklist Smp#: 34
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-6-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-034
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:12:36
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA
 332.00 > 287.00 4.371 4.369 0.002 0.878 671187 5.83 117 2491
 * 2 13C2 PFOA
 415.00 > 370.00 4.977 4.975 0.002 2736303 5.00 2591

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-44.d

Injection Date: 25-Jul-2022 23:03:44

Instrument ID: 30733

Lims ID: 410-90323-B-6-A

Lab Sample ID: 410-90323-6

Client ID: DUP1_070622

Operator ID: US19_USR_INS20260

ALS Bottle#: 40

Worklist Smp#: 34

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

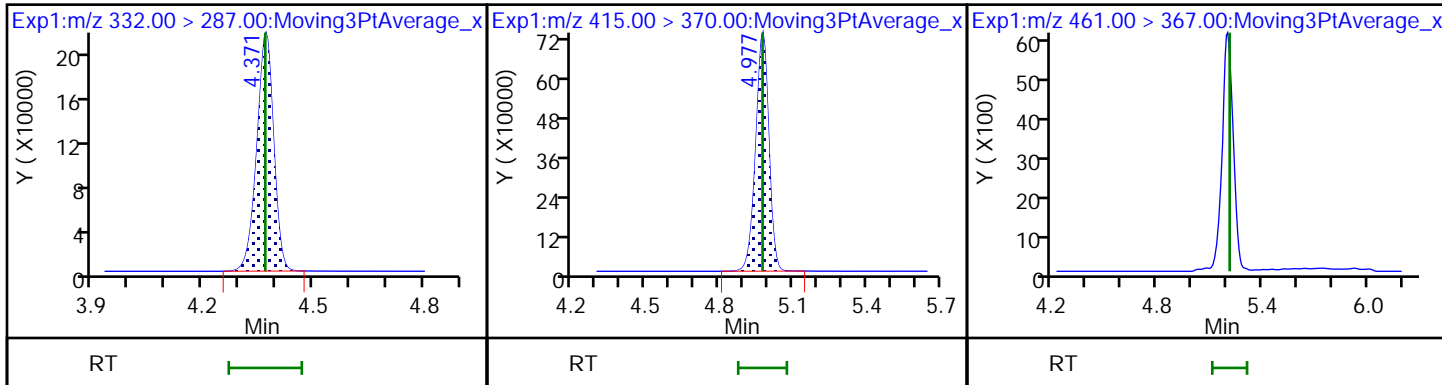
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

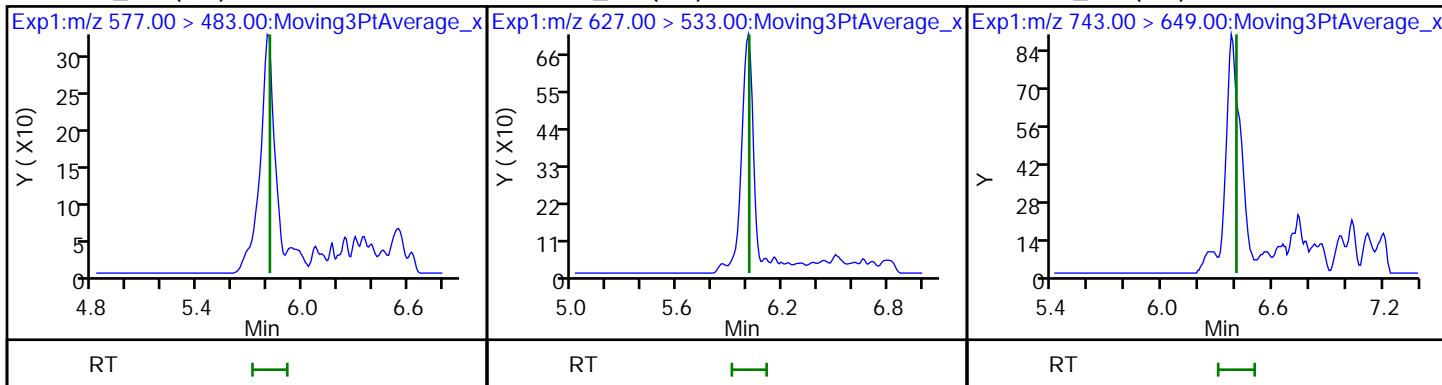
3 MFS_N2 (ND)



4 MFS_M3 (ND)

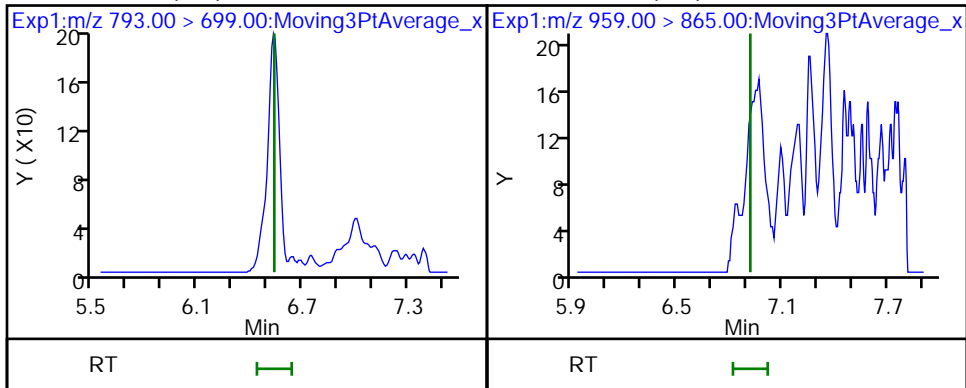
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106D Lab Sample ID: 410-90323-7

Matrix: Water Lab File ID: 22JUL25MFS-31.d

Analysis Method: MFS Date Collected: 07/07/2022 11:20

Extraction Method: 3535 Date Extracted: 07/22/2022 12:47

Sample wt/vol: 311.6(mL) Date Analyzed: 07/25/2022 20:19

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	8.8		0.80	0.16
STL02874	MFS_M3	2.8		0.80	0.16
STL02875	MFS_N3	12		0.80	0.16
STL02876	MFS_M4	ND		0.80	0.40
STL02877	MFS_N4	ND		1.6	0.80
STL02888	MFS_N5	ND		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-31.d
 Lims ID: 410-90323-B-7-A
 Client ID: MW-106D
 Sample Type: Client
 Inject. Date: 25-Jul-2022 20:19:59 ALS Bottle#: 28 Worklist Smp#: 21
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-7-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-021
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:11:31
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.372	4.369	0.003	0.878	595544	5.03	101	2670
* 2 13C2 PFOA	415.00 > 370.00	4.978	4.975	0.003		2814607	5.00		3805
3 MFS_N2	461.00 > 367.00	5.208	5.211	-0.003	1.191	863005	2.75		7035
4 MFS_M3	577.00 > 483.00	5.776	5.812	-0.036	1.321	226576	0.8681		1160
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.373	1041812	3.75		3012
7 MFS_N4	793.00 > 699.00	6.534	6.538	-0.004	1.494	10292	0.0541		244

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-31.d

Injection Date: 25-Jul-2022 20:19:59

Instrument ID: 30733

Lims ID: 410-90323-B-7-A

Lab Sample ID: 410-90323-7

Client ID: MW-106D

Operator ID: US19_USR_INS20260

ALS Bottle#: 28

Worklist Smp#: 21

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

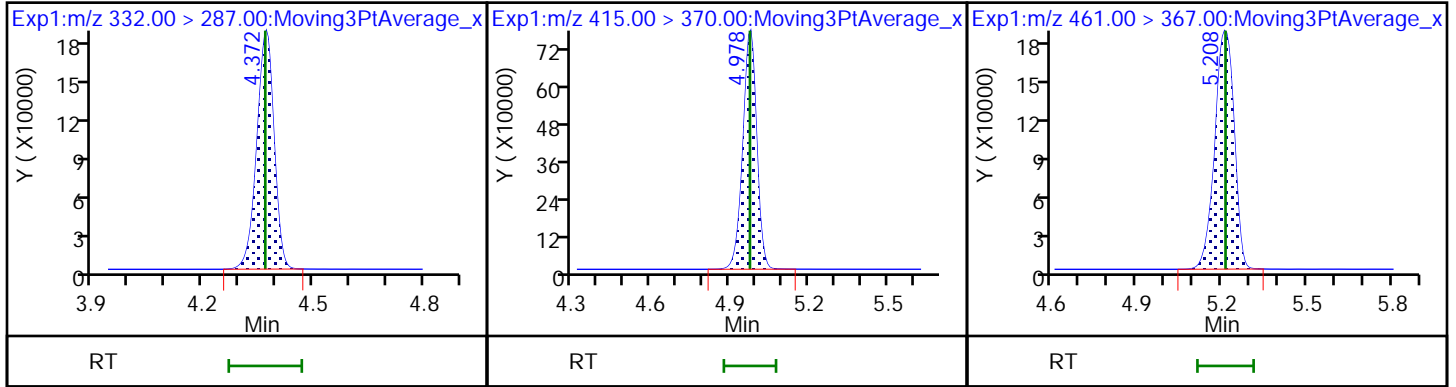
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

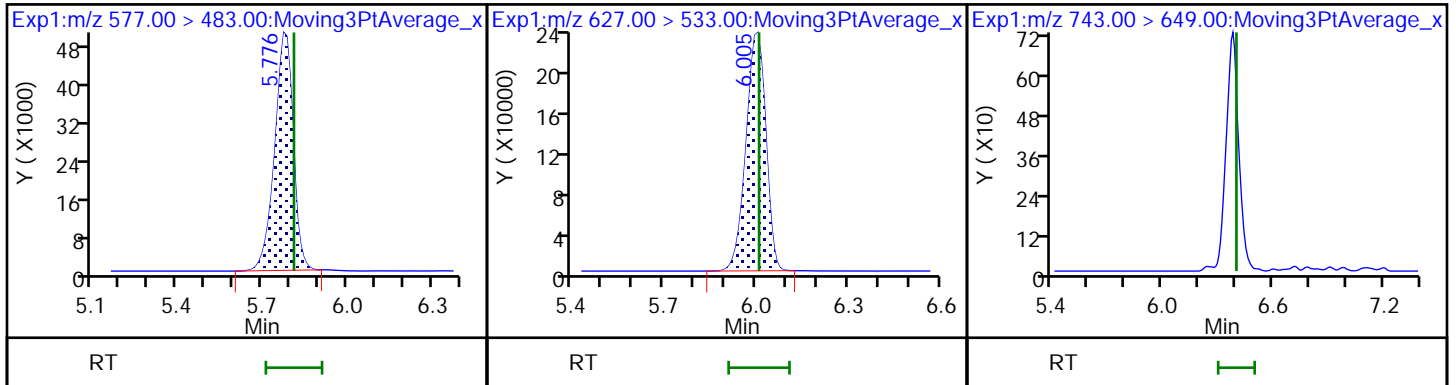
3 MFS_N2



4 MFS_M3

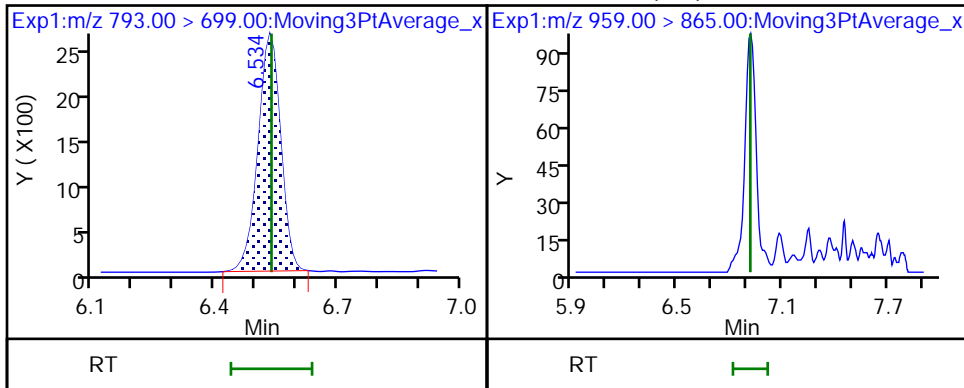
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S Lab Sample ID: 410-90323-8

Matrix: Water Lab File ID: 22JUL27MFS-10.d

Analysis Method: MFS Date Collected: 07/07/2022 11:35

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 269.2 (mL) Date Analyzed: 07/28/2022 05:24

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	2.2		0.93	0.19
STL02874	MFS_M3	ND		0.93	0.19
STL02875	MFS_N3	0.45	J	0.93	0.19
STL02876	MFS_M4	ND		0.93	0.46
STL02877	MFS_N4	1.1	J	1.9	0.93
STL02888	MFS_N5	ND		2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	110		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-10.d
 Lims ID: 410-90323-B-8-A
 Client ID: MW-106S
 Sample Type: Client
 Inject. Date: 28-Jul-2022 05:24:38 ALS Bottle#: 16 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-8-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:39 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:40:43
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.373	4.369	0.004	0.878	689789	5.50	110	2251
* 2 13C2 PFOA	415.00 > 370.00	4.978	4.975	0.003		2984054	5.00		2491
3 MFS_N2	461.00 > 367.00	5.208	5.211	-0.003	1.191	233209	0.5829		1594
5 MFS_N3	627.00 > 533.00	5.995	6.009	-0.014	1.371	52526	0.1211		330
7 MFS_N4	793.00 > 699.00	6.525	6.538	-0.013	1.492	51279	0.2982		865

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-10.d

Injection Date: 28-Jul-2022 05:24:38

Instrument ID: 30733

Lims ID: 410-90323-B-8-A

Lab Sample ID: 410-90323-8

Client ID: MW-106S

Operator ID: US19_USR_INS20260

ALS Bottle#: 16

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

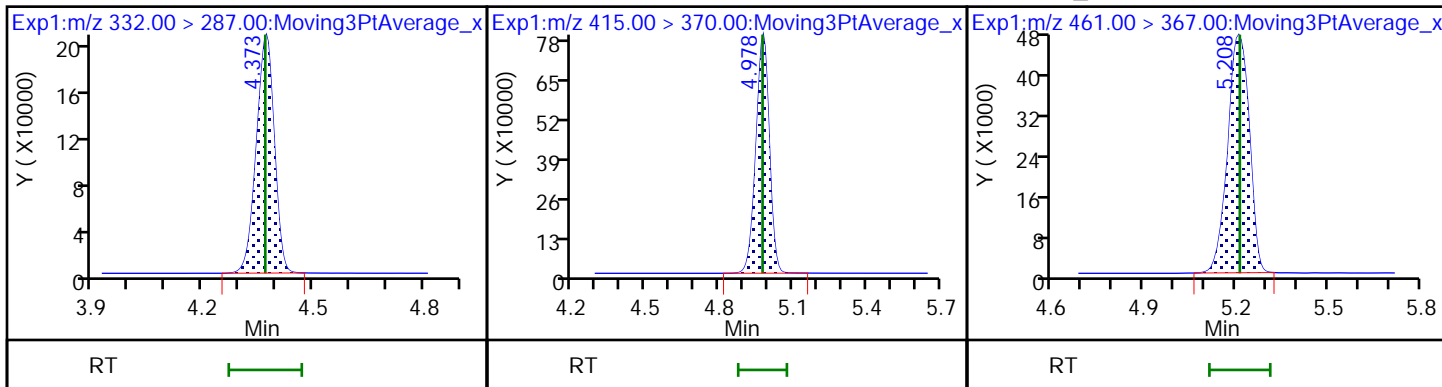
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

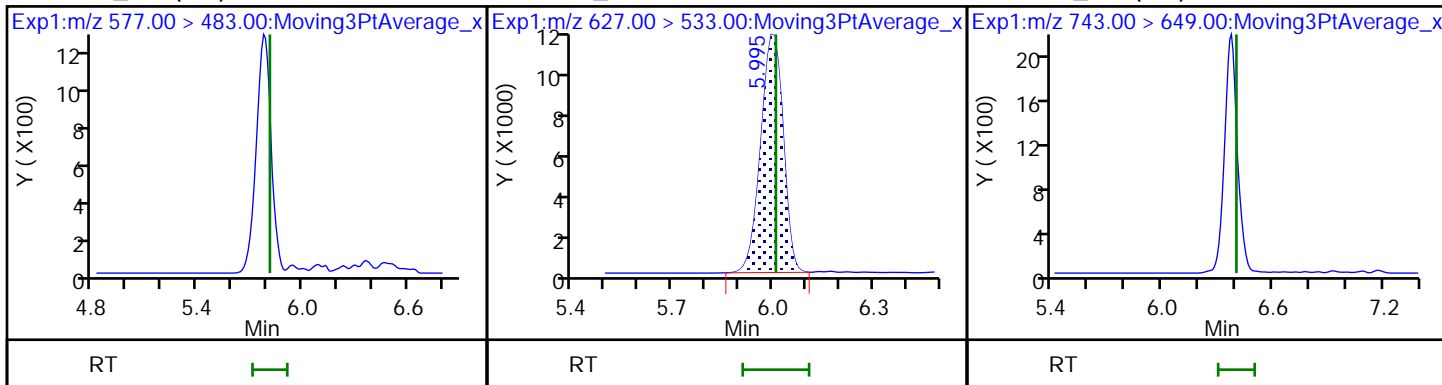
3 MFS_N2



4 MFS_M3 (ND)

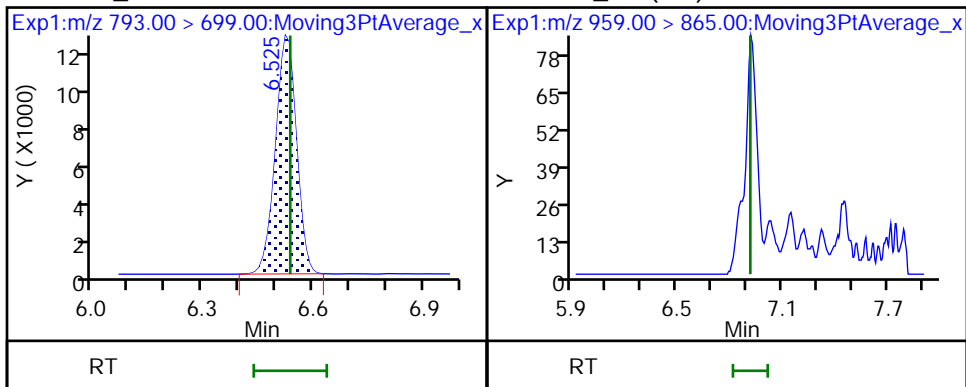
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-103D Lab Sample ID: 410-90323-9

Matrix: Water Lab File ID: 22JUL27MFS-13.d

Analysis Method: MFS Date Collected: 07/07/2022 10:30

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 310.2 (mL) Date Analyzed: 07/28/2022 06:02

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	5.1		0.81	0.16
STL02874	MFS_M3	0.87		0.81	0.16
STL02875	MFS_N3	4.4		0.81	0.16
STL02876	MFS_M4	0.42	J	0.81	0.40
STL02877	MFS_N4	0.86	J	1.6	0.81
STL02888	MFS_N5	ND		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	104		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-13.d
 Lims ID: 410-90323-B-9-A
 Client ID: MW-103D
 Sample Type: Client
 Inject. Date: 28-Jul-2022 06:02:23 ALS Bottle#: 19 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-9-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:39 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:40:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.370	4.369	0.001	0.878	638523	5.18	104	2125
* 2 13C2 PFOA	415.00 > 370.00	4.976	4.975	0.001		2930524	5.00		2644
3 MFS_N2	461.00 > 367.00	5.195	5.211	-0.016	1.189	538821	1.57		3495
4 MFS_M3	577.00 > 483.00	5.778	5.812	-0.034	1.322	87925	0.2700		479
5 MFS_N3	627.00 > 533.00	5.994	6.009	-0.015	1.371	412811	1.36		1689
6 MFS_M4	743.00 > 649.00	6.363	6.400	-0.037	1.456	21453	0.1312		438
7 MFS_N4	793.00 > 699.00	6.524	6.538	-0.014	1.493	42761	0.2667		789

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-13.d

Injection Date: 28-Jul-2022 06:02:23

Instrument ID: 30733

Lims ID: 410-90323-B-9-A

Lab Sample ID: 410-90323-9

Client ID: MW-103D

Operator ID: US19_USR_INS20260

ALS Bottle#: 19

Worklist Smp#: 13

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

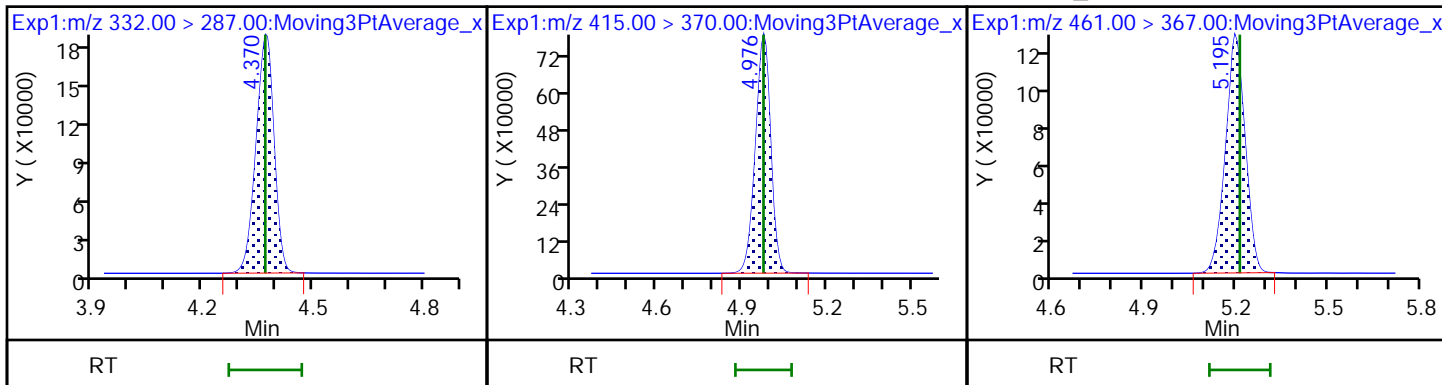
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

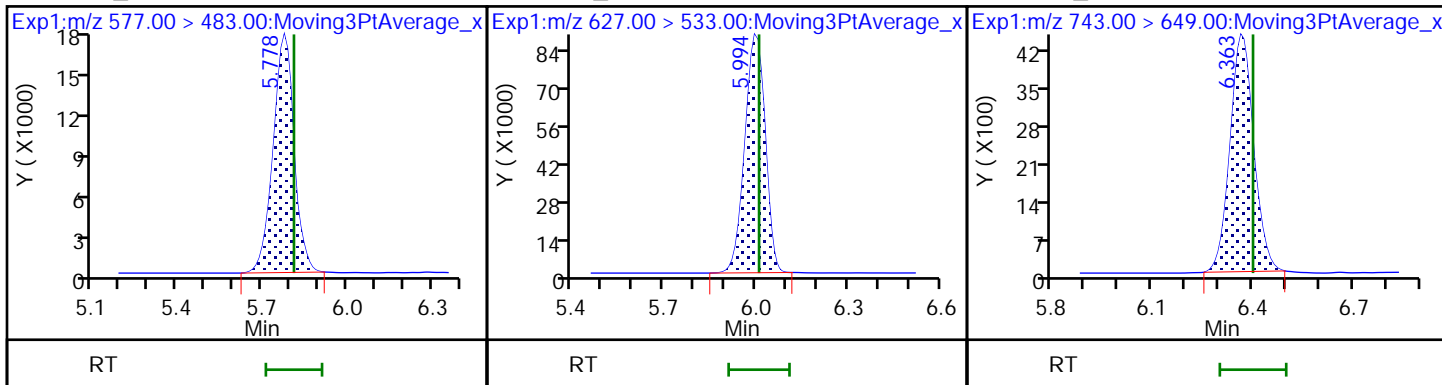
3 MFS_N2



4 MFS_M3

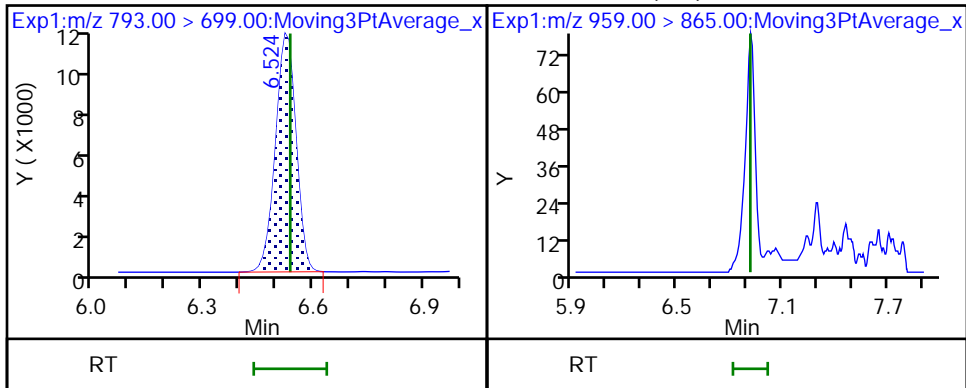
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-113D Lab Sample ID: 410-90323-10

Matrix: Water Lab File ID: 22JUL27MFS-14.d

Analysis Method: MFS Date Collected: 07/07/2022 13:30

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 296.3(mL) Date Analyzed: 07/28/2022 06:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.84	0.17
STL02874	MFS_M3	ND		0.84	0.17
STL02875	MFS_N3	ND		0.84	0.17
STL02876	MFS_M4	ND		0.84	0.42
STL02877	MFS_N4	ND		1.7	0.84
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-14.d
 Lims ID: 410-90323-B-10-A
 Client ID: MW-113D
 Sample Type: Client
 Inject. Date: 28-Jul-2022 06:15:00 ALS Bottle#: 20 Worklist Smp#: 14
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-10-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:39 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:41:04
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.375 4.369 0.006 0.879 648670 4.99 99.8 2047
 * 2 13C2 PFOA
 415.00 > 370.00 4.977 4.975 0.002 3089665 5.00 2639

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-14.d

Injection Date: 28-Jul-2022 06:15:00

Instrument ID: 30733

Lims ID: 410-90323-B-10-A

Lab Sample ID: 410-90323-10

Client ID: MW-113D

Operator ID: US19_USR_INS20260

ALS Bottle#: 20

Worklist Smp#: 14

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

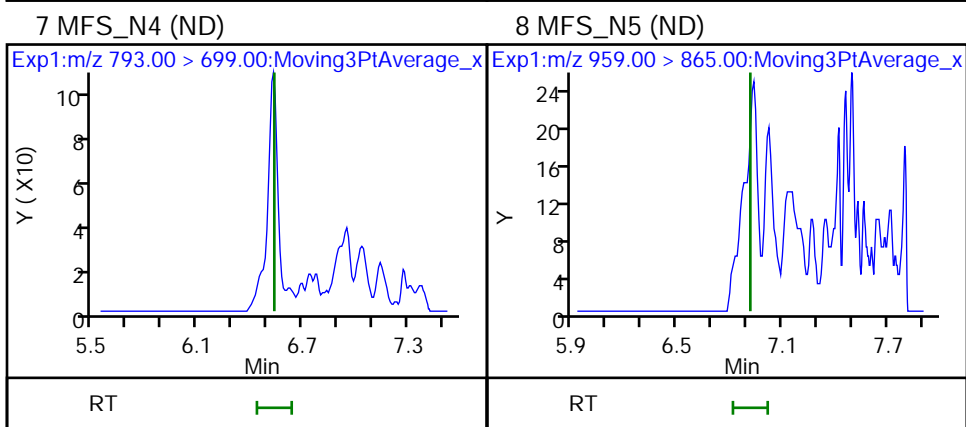
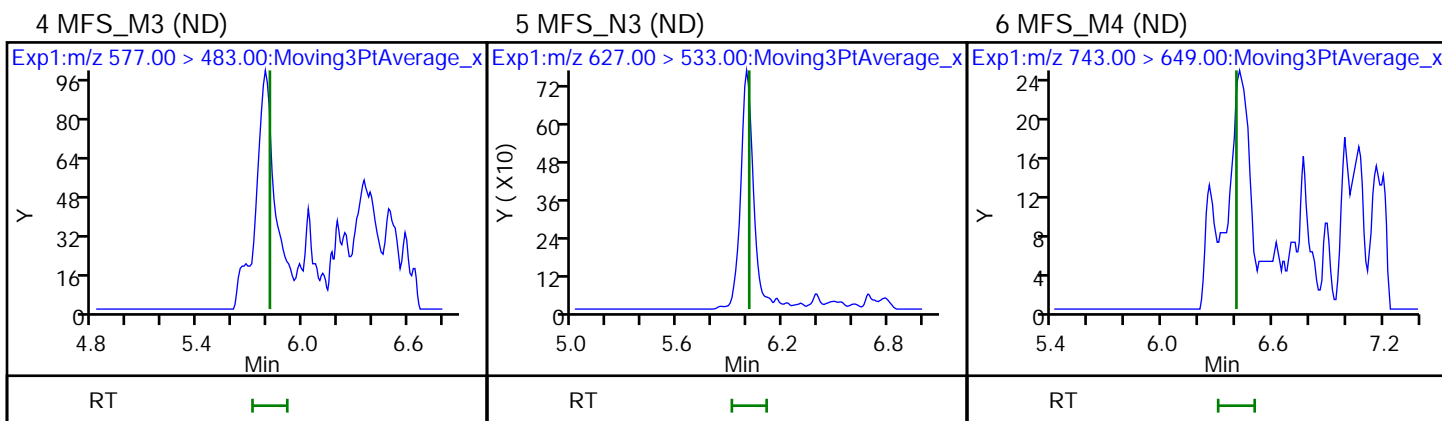
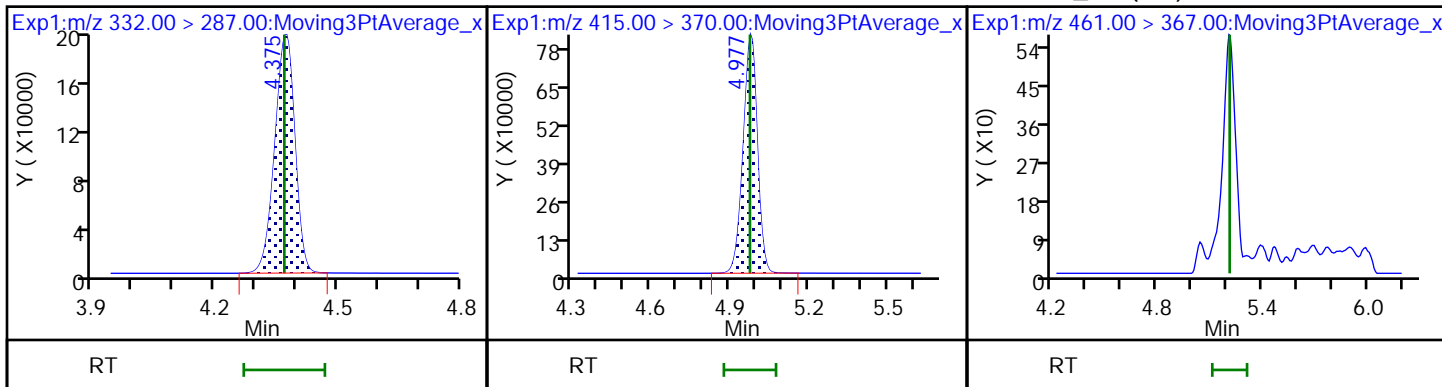
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-113S Lab Sample ID: 410-90323-11

Matrix: Water Lab File ID: 22JUL27MFS-15.d

Analysis Method: MFS Date Collected: 07/07/2022 15:25

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 264.7(mL) Date Analyzed: 07/28/2022 06:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	0.91	J	0.94	0.19
STL02874	MFS_M3	ND		0.94	0.19
STL02875	MFS_N3	ND		0.94	0.19
STL02876	MFS_M4	ND		0.94	0.47
STL02877	MFS_N4	ND		1.9	0.94
STL02888	MFS_N5	ND		2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-15.d
 Lims ID: 410-90323-B-11-A
 Client ID: MW-113S
 Sample Type: Client
 Inject. Date: 28-Jul-2022 06:27:38 ALS Bottle#: 21 Worklist Smp#: 15
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-11-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:39 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:41:10
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.373	4.369	0.004	0.879	665976	5.58	112	2262
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		2837478	5.00		2676
3 MFS_N2	461.00 > 367.00	5.195	5.211	-0.016	1.188	108185	0.2396		865

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-15.d

Injection Date: 28-Jul-2022 06:27:38

Instrument ID: 30733

Lims ID: 410-90323-B-11-A

Lab Sample ID: 410-90323-11

Client ID: MW-113S

Operator ID: US19_USR_INS20260

ALS Bottle#: 21

Worklist Smp#: 15

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

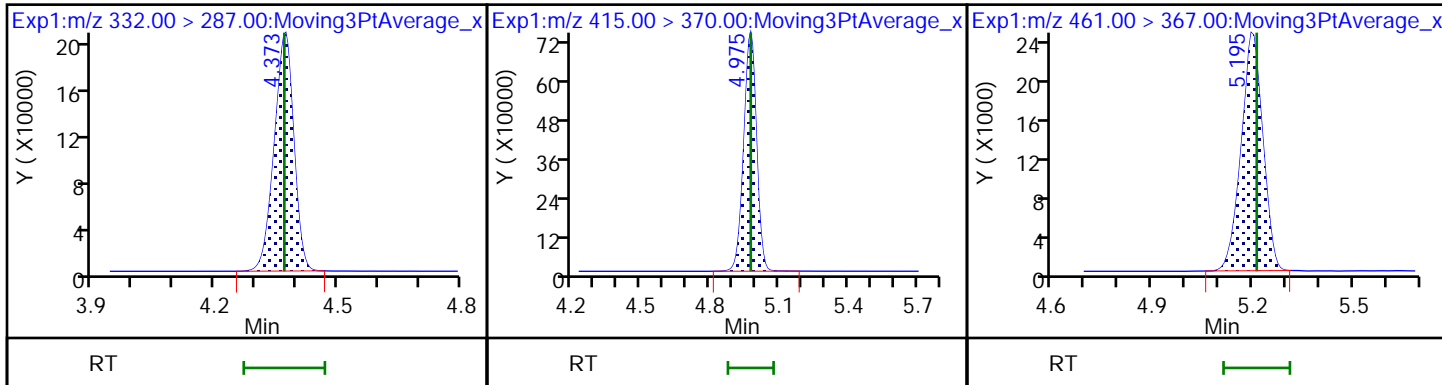
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

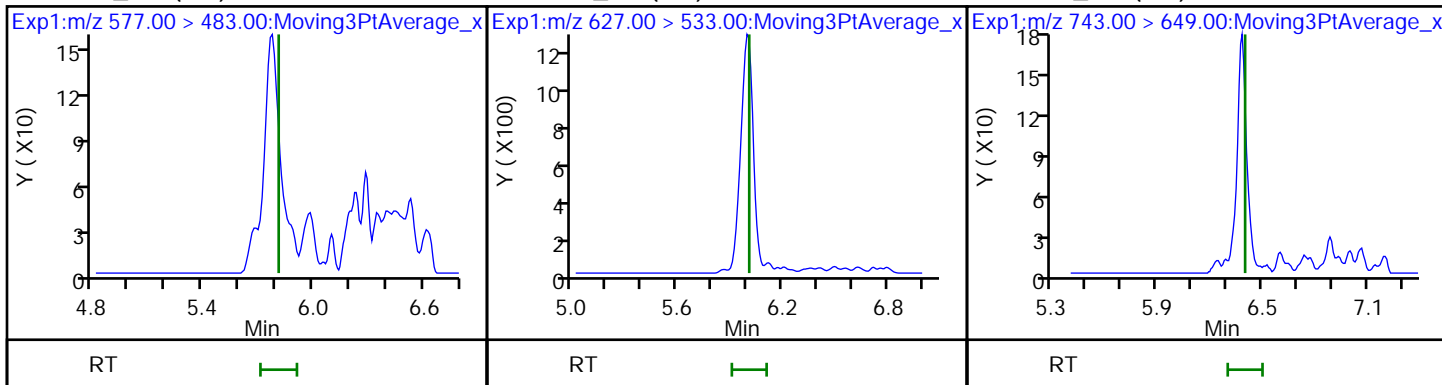
3 MFS_N2



4 MFS_M3 (ND)

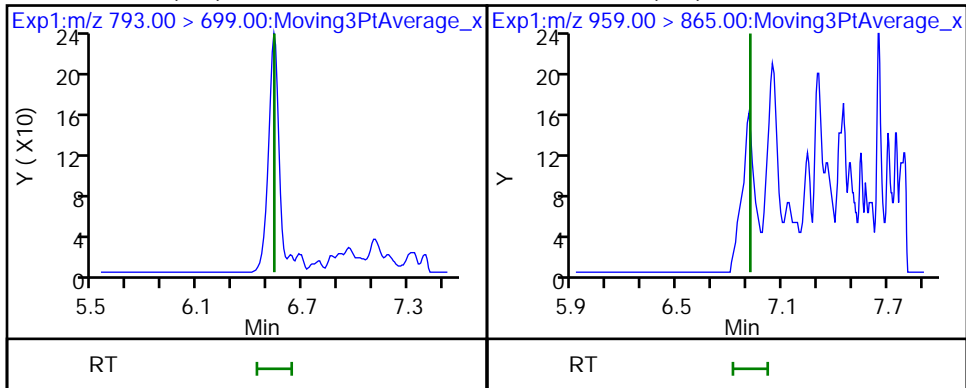
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP1_070722 Lab Sample ID: 410-90323-12

Matrix: Water Lab File ID: 22JUL27MFS-16.d

Analysis Method: MFS Date Collected: 07/07/2022 00:00

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 280.4(mL) Date Analyzed: 07/28/2022 06:40

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	8.1		0.89	0.18
STL02874	MFS_M3	2.3		0.89	0.18
STL02875	MFS_N3	10		0.89	0.18
STL02876	MFS_M4	ND		0.89	0.45
STL02877	MFS_N4	ND		1.8	0.89
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-16.d
 Lims ID: 410-90323-B-12-A
 Client ID: DUP1_070722
 Sample Type: Client
 Inject. Date: 28-Jul-2022 06:40:11 ALS Bottle#: 22 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-12-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:39 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:41:16
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.363	4.369	-0.006	0.878	650602	5.47	109	1983
* 2 13C2 PFOA	415.00 > 370.00	4.971	4.975	-0.004		2826250	5.00		2528
3 MFS_N2	461.00 > 367.00	5.200	5.211	-0.011	1.192	784045	2.28		5019
4 MFS_M3	577.00 > 483.00	5.776	5.812	-0.036	1.324	190024	0.6503		965
5 MFS_N3	627.00 > 533.00	5.994	6.009	-0.015	1.374	877313	2.88		2251

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-16.d

Injection Date: 28-Jul-2022 06:40:11

Instrument ID: 30733

Lims ID: 410-90323-B-12-A

Lab Sample ID: 410-90323-12

Client ID: DUP1_070722

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

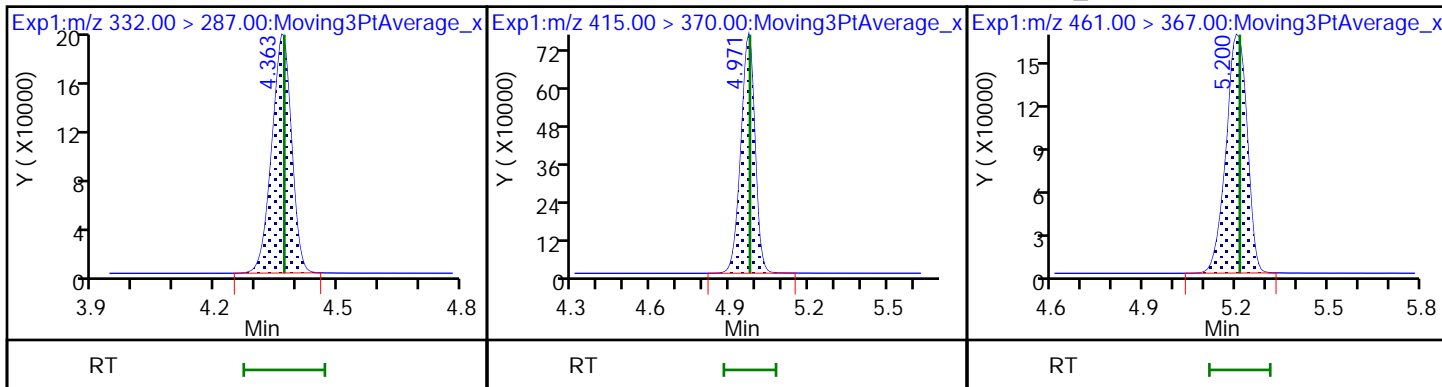
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

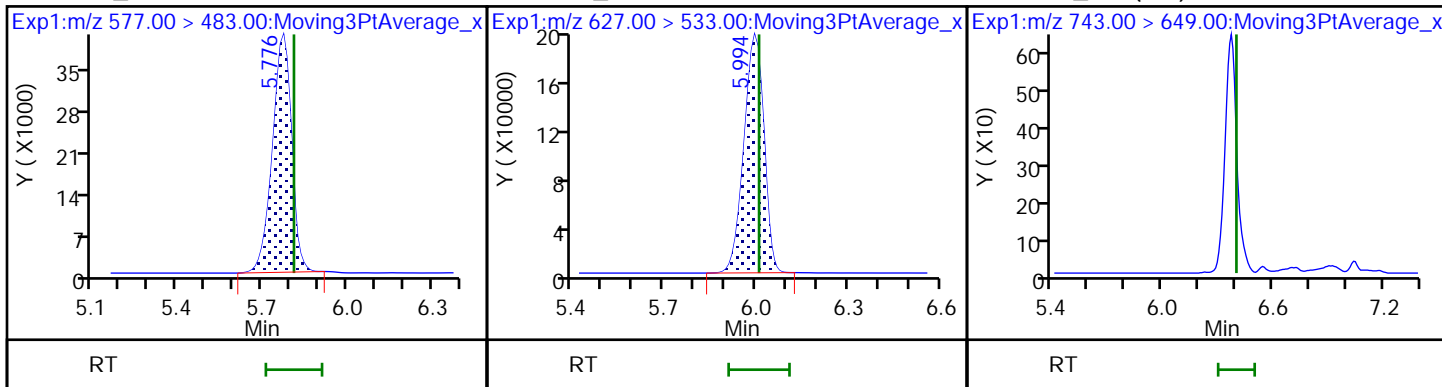
3 MFS_N2



4 MFS_M3

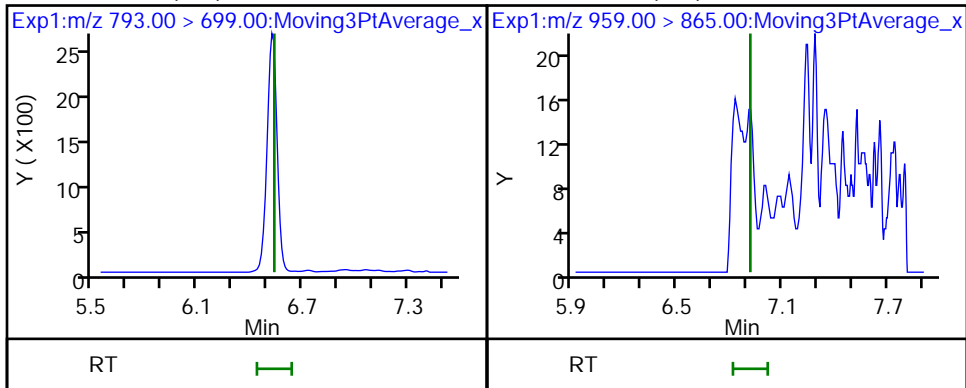
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_070722 Lab Sample ID: 410-90323-13

Matrix: Water Lab File ID: 22JUL27MFS-17.d

Analysis Method: MFS Date Collected: 07/07/2022 12:05

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 262.1(mL) Date Analyzed: 07/28/2022 06:52

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.95	0.19
STL02874	MFS_M3	ND		0.95	0.19
STL02875	MFS_N3	ND		0.95	0.19
STL02876	MFS_M4	ND		0.95	0.48
STL02877	MFS_N4	ND		1.9	0.95
STL02888	MFS_N5	ND		2.9	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	119		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-17.d
 Lims ID: 410-90323-B-13-A
 Client ID: EB_070722
 Sample Type: Client
 Inject. Date: 28-Jul-2022 06:52:48 ALS Bottle#: 23 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-13-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:39 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:41:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA
 332.00 > 287.00 4.366 4.369 -0.003 0.879 827221 5.94 119 2245
 * 2 13C2 PFOA
 415.00 > 370.00 4.970 4.975 -0.005 3309011 5.00 2920

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-17.d

Injection Date: 28-Jul-2022 06:52:48

Instrument ID: 30733

Lims ID: 410-90323-B-13-A

Lab Sample ID: 410-90323-13

Client ID: EB_070722

Operator ID: US19_USR_INS20260

ALS Bottle#: 23

Worklist Smp#: 17

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

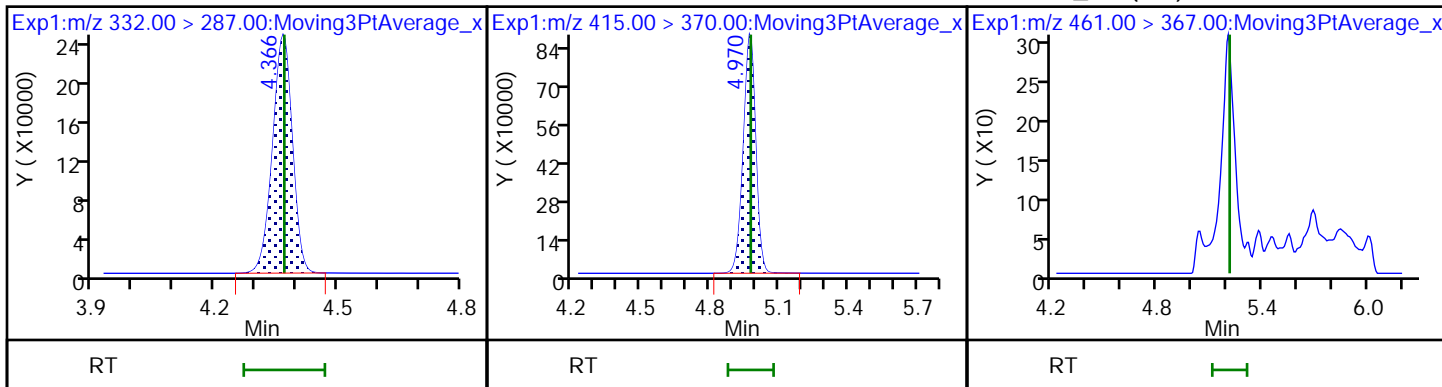
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

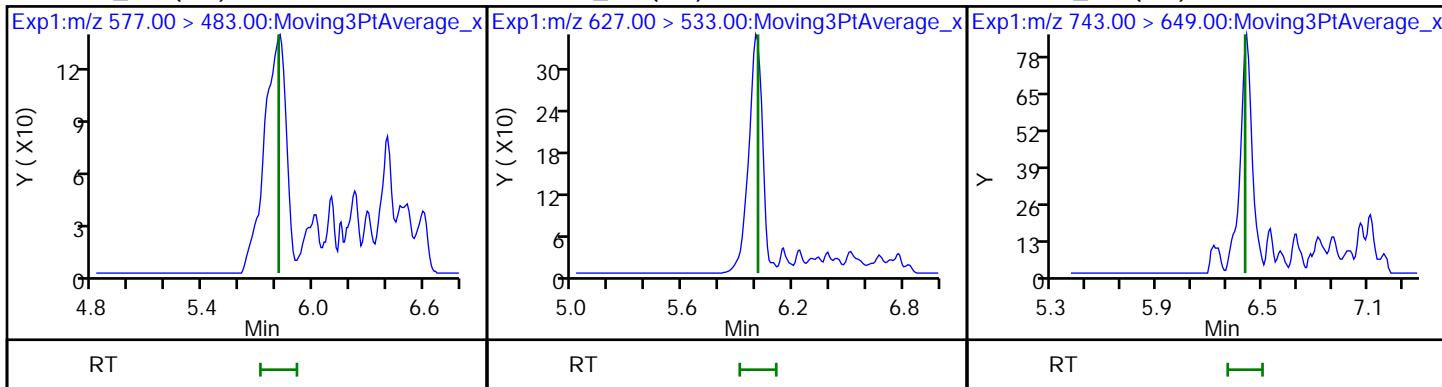
3 MFS_N2 (ND)



4 MFS_M3 (ND)

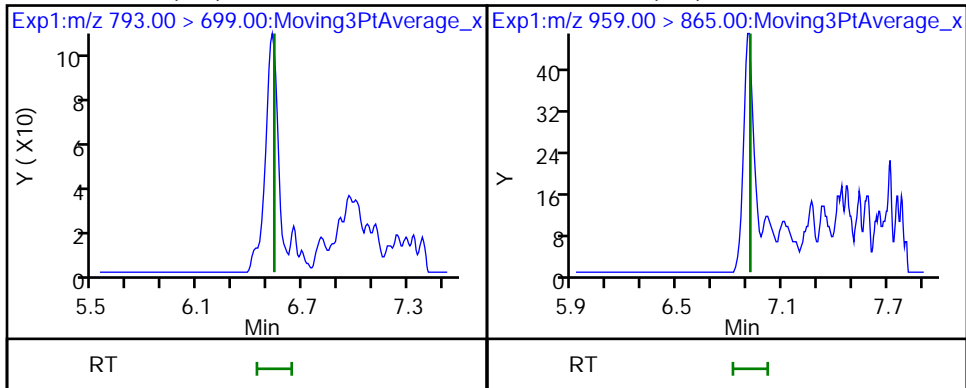
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: DUP2_070722 Lab Sample ID: 410-90323-14

Matrix: Water Lab File ID: 22JUL27MFS-18.d

Analysis Method: MFS Date Collected: 07/07/2022 00:00

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 305.8(mL) Date Analyzed: 07/28/2022 07:05

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	3.7		0.82	0.16
STL02874	MFS_M3	ND		0.82	0.16
STL02875	MFS_N3	ND		0.82	0.16
STL02876	MFS_M4	ND		0.82	0.41
STL02877	MFS_N4	ND		1.6	0.82
STL02888	MFS_N5	ND		2.5	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	125		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-18.d
 Lims ID: 410-90323-B-14-A
 Client ID: DUP2_070722
 Sample Type: Client
 Inject. Date: 28-Jul-2022 07:05:25 ALS Bottle#: 24 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-14-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 09:14:42 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 09:47:14
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.367	4.369	-0.002	0.879	763298	6.26	125	2077
* 2 13C2 PFOA	415.00 > 370.00	4.970	4.975	-0.005		2897700	5.00		2300
3 MFS_N2	461.00 > 367.00	5.192	5.211	-0.019	1.189	473390	1.13		3317

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-18.d

Injection Date: 28-Jul-2022 07:05:25

Instrument ID: 30733

Lims ID: 410-90323-B-14-A

Lab Sample ID: 410-90323-14

Client ID: DUP2_070722

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

Worklist Smp#: 18

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

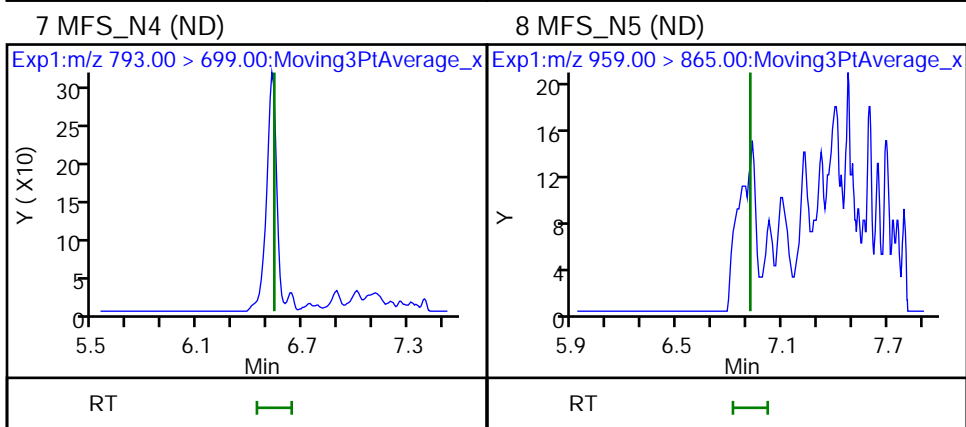
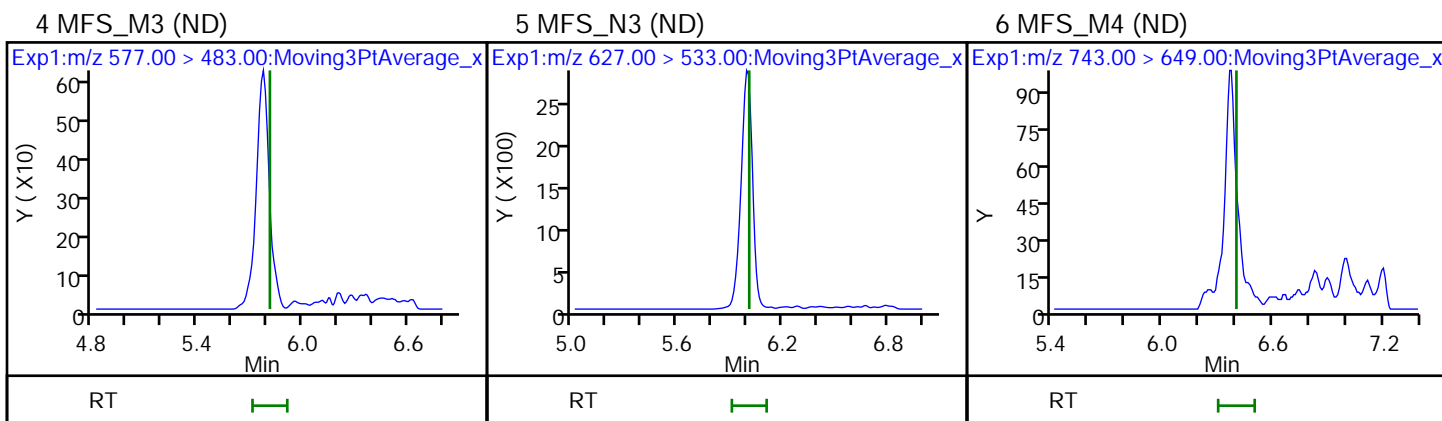
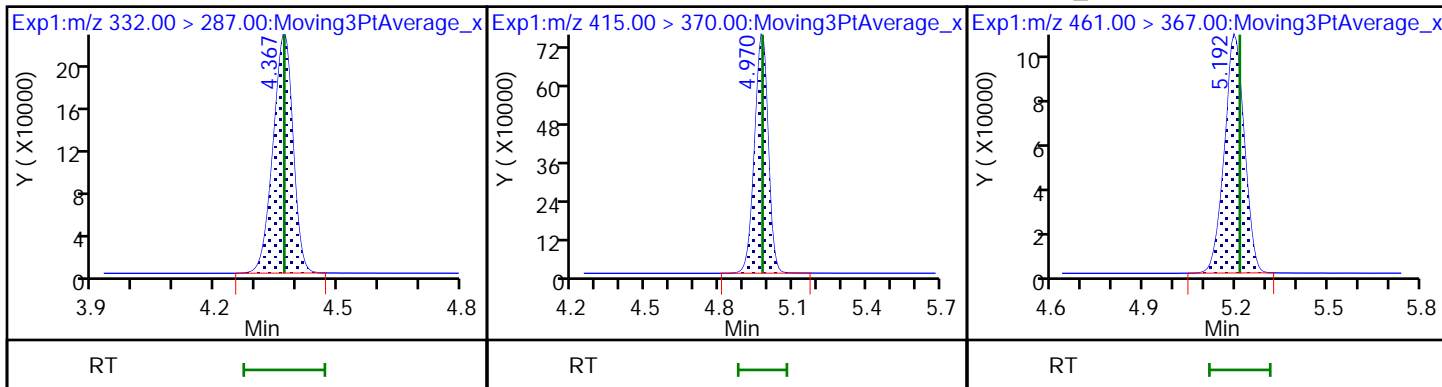
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102S Lab Sample ID: 410-90323-15

Matrix: Water Lab File ID: 22AUG5MFS-04.d

Analysis Method: MFS Date Collected: 07/07/2022 15:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 306.9(mL) Date Analyzed: 08/05/2022 12:56

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	4.3		0.81	0.16
STL02874	MFS_M3	ND		0.81	0.16
STL02875	MFS_N3	ND		0.81	0.16
STL02876	MFS_M4	ND		0.81	0.41
STL02877	MFS_N4	ND		1.6	0.81
STL02888	MFS_N5	ND		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-04.d
 Lims ID: 410-90323-B-15-A
 Client ID: MW-102S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 12:56:45 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-15-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:02:51
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.399	4.400	-0.001	0.879	686129	5.39	108	3392
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3151496	5.00		4666
3 MFS_N2	461.00 > 367.00	5.229	5.252	-0.023	1.189	512519	1.33		3490
4 MFS_M3	577.00 > 483.00	5.817	5.857	-0.040	1.323	10930	-0.0385		64.8
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.374	19263	0.0200		205
7 MFS_N4	793.00 > 699.00	6.562	6.571	-0.009	1.492	3127	-0.0872		76.3

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-04.d

Injection Date: 05-Aug-2022 12:56:45

Instrument ID: 30733

Lims ID: 410-90323-B-15-A

Lab Sample ID: 410-90323-15

Client ID: MW-102S

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

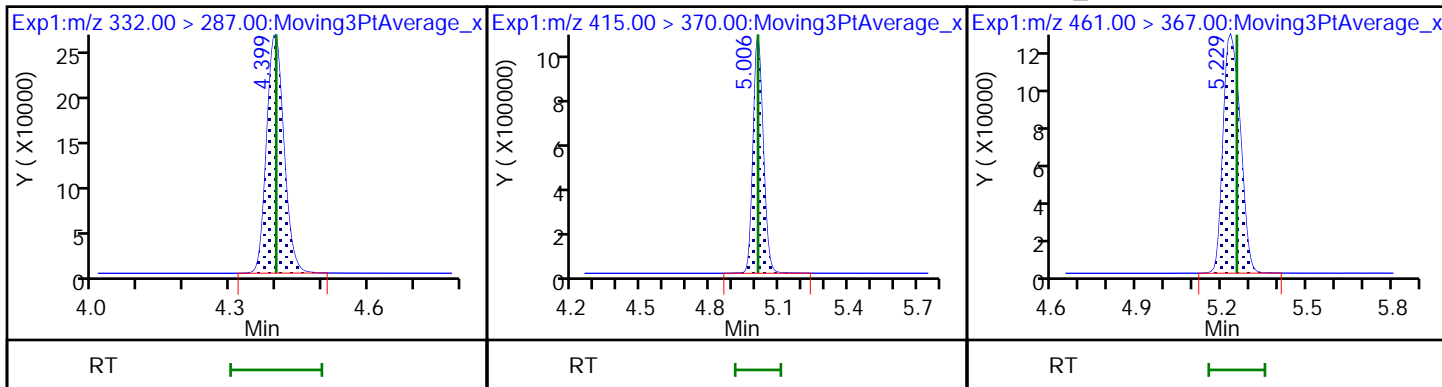
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

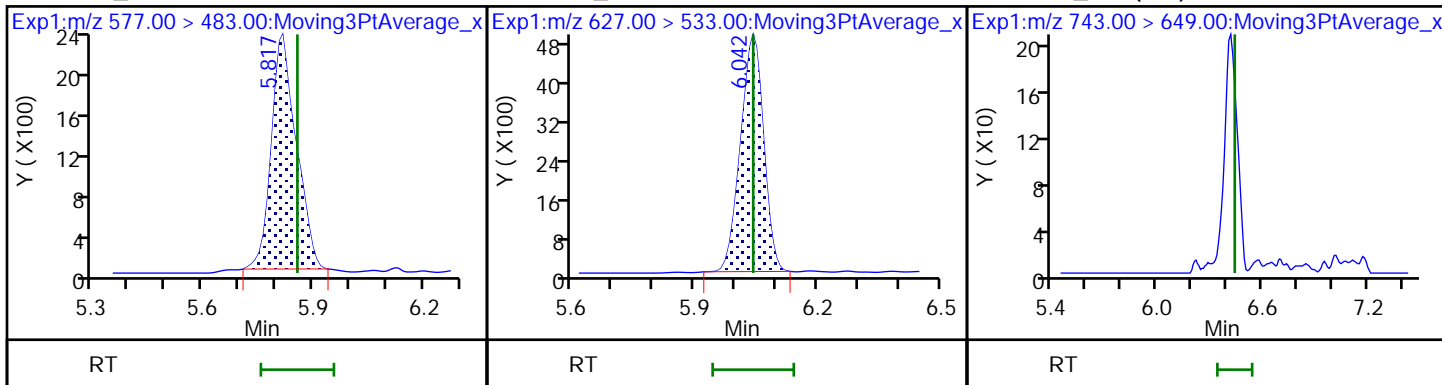
3 MFS_N2



4 MFS_M3

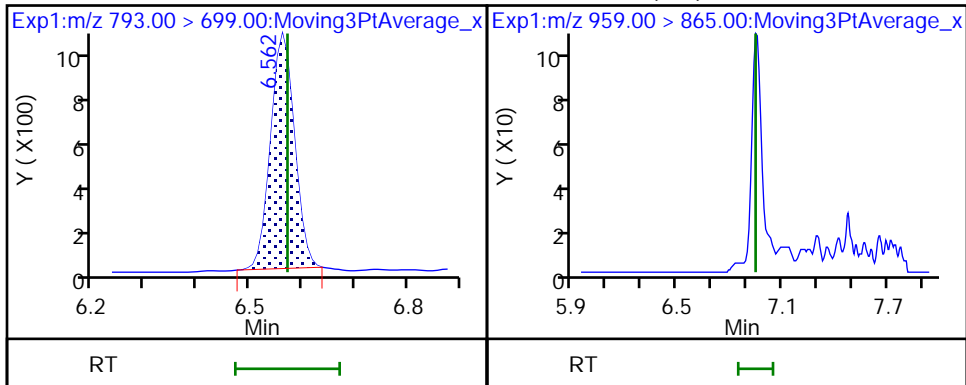
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4

8 MFS_N5 (ND)



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 279067

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2022 10:10 Calibration End Date: 07/25/2022 11:27 Calibration ID: 41221

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-279067/1	22JUL25MFS-01.d
Level 2	IC 410-279067/2	22JUL25MFS-02.d
Level 3	IC 410-279067/3	22JUL25MFS-03.d
Level 4	IC 410-279067/4	22JUL25MFS-04.d
Level 5	ICISAV 410-279067/5	22JUL25MFS-05.d
Level 6	IC 410-279067/6	22JUL25MFS-06.d
Level 7	IC 410-279067/7	22JUL25MFS-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	2.9157 2.6410	2.8229 2.4626	2.9854	2.8261	2.7759	L1ID	0.199 3	2.558 3						0.9970		0.9900	
MFS_M3	2.3631 2.0862	2.2685 1.9790	2.2924	2.1181	2.1497	L1ID	0.140 5	2.029 5						0.9990		0.9900	
MFS_N3	2.5173 2.3625	2.3514 2.2420	2.5501	2.3912	2.4602	L1ID	0.101 9	2.303 7						0.9990		0.9900	
MFS_M4	1.0500 1.0005	0.9924 0.9359	1.0471	1.0179	1.0379	L1ID	0.041 0	0.967 7						0.9980		0.9900	
MFS_N4	1.2625 1.0092	1.1903 0.9160	1.2378	1.1342	1.1205	Q2ID	0.023 1	1.170 5	-0.005408					0.9990		0.9900	
MFS_N5	1.0735 1.0526	1.0507 0.9241	1.0862	1.0690	1.1219	Q2ID	-0.01 5	1.114 9	-0.003418					0.9990		0.9900	
13C3 HFPO-DA	0.2165 0.2101	0.2067 0.2193	0.2026	0.2039	0.2128	Ave		0.210 3			3.0						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 279067

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2022 10:10 Calibration End Date: 07/25/2022 11:27 Calibration ID: 41221

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-279067/1	22JUL25MFS-01.d
Level 2	IC 410-279067/2	22JUL25MFS-02.d
Level 3	IC 410-279067/3	22JUL25MFS-03.d
Level 4	IC 410-279067/4	22JUL25MFS-04.d
Level 5	ICISAV 410-279067/5	22JUL25MFS-05.d
Level 6	IC 410-279067/6	22JUL25MFS-06.d
Level 7	IC 410-279067/7	22JUL25MFS-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
MFS_N2		L1ID	110006 10001931	200406 18752337	433557	2059979	4210775	0.241 24.1	0.482 48.2	0.964	4.82	9.64
MFS_M3		L1ID	91085 8071654	164527 15395563	340112	1577241	3331318	0.246 24.6	0.492 49.2	0.985	4.92	9.85
MFS_N3		L1ID	98657 9293769	173401 17734438	384697	1810460	3876560	0.250 25.0	0.501 50.1	1.00	5.01	10.0
MFS_M4		L1ID	40341 3858635	71745 7257372	154852	755564	1603304	0.245 24.5	0.491 49.1	0.982	4.91	9.82
MFS_N4		Q2ID	49177 3945849	87240 7201338	185587	853486	1754721	0.249 24.9	0.498 49.8	0.995	4.98	9.95
MFS_N5		Q2ID	42429 4176225	78141 7371449	165247	816270	1782705	0.252 25.2	0.505 50.5	1.01	5.05	10.1
13C3 HFPO-DA	13PF OA	Ave	782813 785777	736500 789984	753305	756174	786829	5.00 5.00	5.00 5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
L1ID = Linear 1/conc IsoDil
Q2ID = Quadratic 1/conc^2 IsoDil

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 279067

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2022 10:10 Calibration End Date: 07/25/2022 11:27 Calibration ID: 41221

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-279067/1	22JUL25MFS-01.d
Level 2	IC 410-279067/2	22JUL25MFS-02.d
Level 3	IC 410-279067/3	22JUL25MFS-03.d
Level 4	IC 410-279067/4	22JUL25MFS-04.d
Level 5	ICISAV 410-279067/5	22JUL25MFS-05.d
Level 6	IC 410-279067/6	22JUL25MFS-06.d
Level 7	IC 410-279067/7	22JUL25MFS-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-18.4 -3.9	-5.8	8.6	8.9	7.7	2.9	50 30	30	30	30	30	30
MFS_M3	-11.7 -2.6	-2.3	5.9	3.0	5.2	2.5	50 30	30	30	30	30	30
MFS_N3	-8.4 -2.8	-6.8	6.3	2.9	6.4	2.4	50 30	30	30	30	30	30
MFS_M4	-8.8 -3.4	-6.1	3.9	4.3	6.8	3.2	50 30	30	30	30	30	30
MFS_N4	0.0 2.3	-2.1	4.3	-1.3	0.1	-3.1	50 30	30	30	30	30	30
MFS_N5	1.7 -2.3	-2.9	-0.9	-2.4	4.1	2.6	50 30	30	30	30	30	30
13C3 HFPO-DA	3.0						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 25-Jul-2022 10:10:12 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:53:56 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.379	4.369	0.010	0.880	782813	5.15	103	2058
* 2 13C2 PFOA	415.00 > 370.00	4.977	4.975	0.002		3614940	5.00		4135
3 MFS_N2	461.00 > 367.00	5.213	5.211	0.002	1.190	110006	0.1968	81.6	1484
4 MFS_M3	577.00 > 483.00	5.815	5.812	0.003	1.328	91085	0.2174	88.3	634
5 MFS_N3	627.00 > 533.00	6.012	6.009	0.003	1.373	98657	0.2293	91.6	1002
6 MFS_M4	743.00 > 649.00	6.401	6.400	0.001	1.462	40341	0.2239	91.2	535
7 MFS_N4	793.00 > 699.00	6.547	6.538	0.009	1.495	49177	0.2489	100	835
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.579	42429	0.2568	102	1223

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-01.d

Injection Date: 25-Jul-2022 10:10:12

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

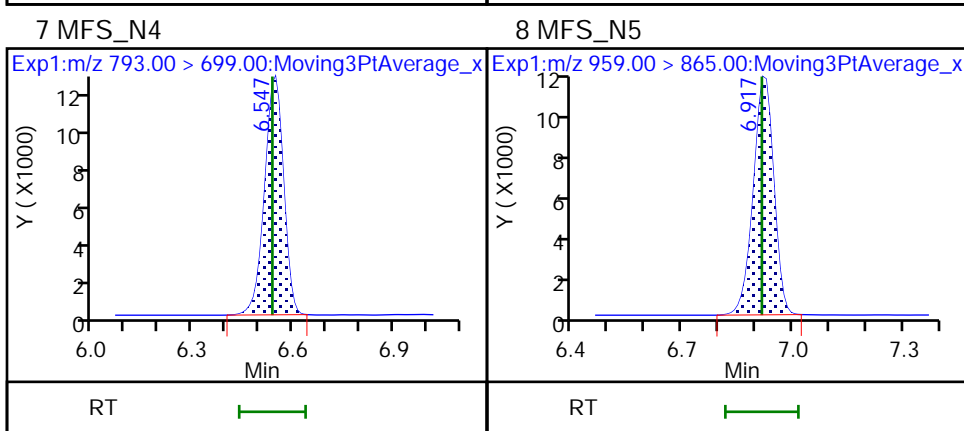
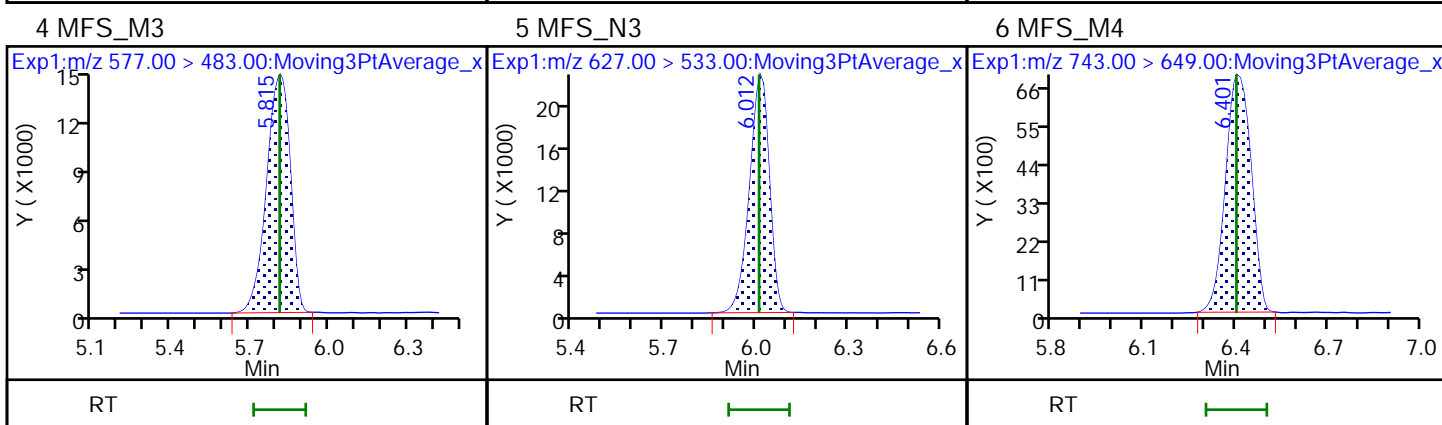
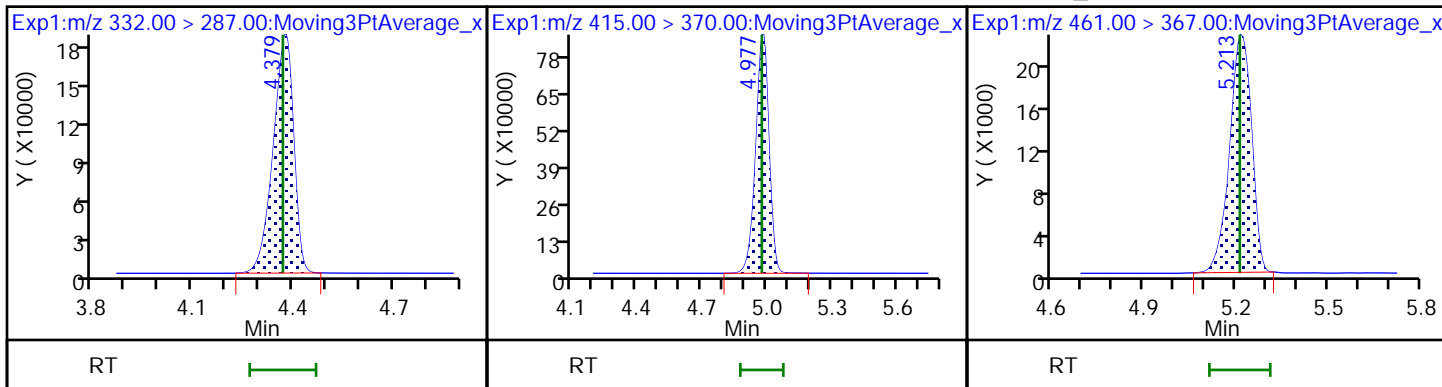
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 25-Jul-2022 10:24:10 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:53:57 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:20

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.365	4.369	-0.004	0.877	736500	4.91	98.3	1936
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3563314	5.00		4880
3 MFS_N2	461.00 > 367.00	5.209	5.211	-0.002	1.193	200406	0.4539	94.2	2711
4 MFS_M3	577.00 > 483.00	5.811	5.812	-0.001	1.331	164527	0.4811	97.7	1026
5 MFS_N3	627.00 > 533.00	6.006	6.009	-0.003	1.376	173401	0.4668	93.2	1571
6 MFS_M4	743.00 > 649.00	6.399	6.400	-0.001	1.466	71745	0.4609	93.9	1337
7 MFS_N4	793.00 > 699.00	6.535	6.538	-0.003	1.497	87240	0.4873	97.9	1225
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.585	78141	0.4900	97.1	1894

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-02.d

Injection Date: 25-Jul-2022 10:24:10

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

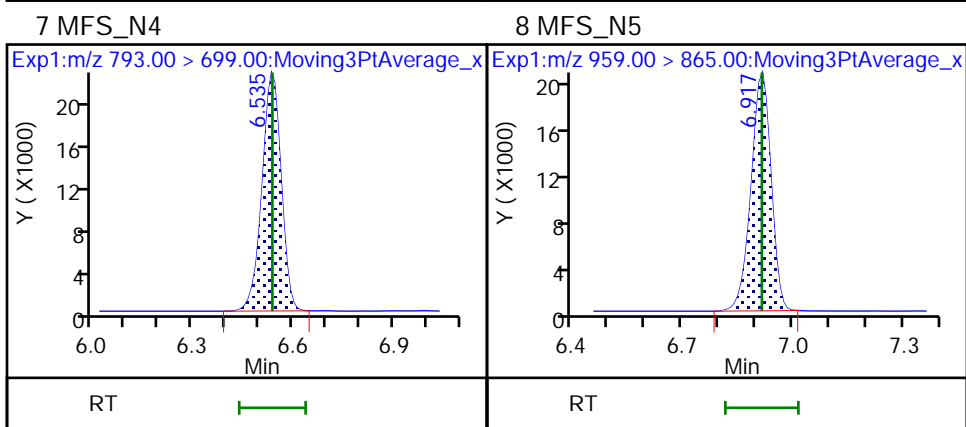
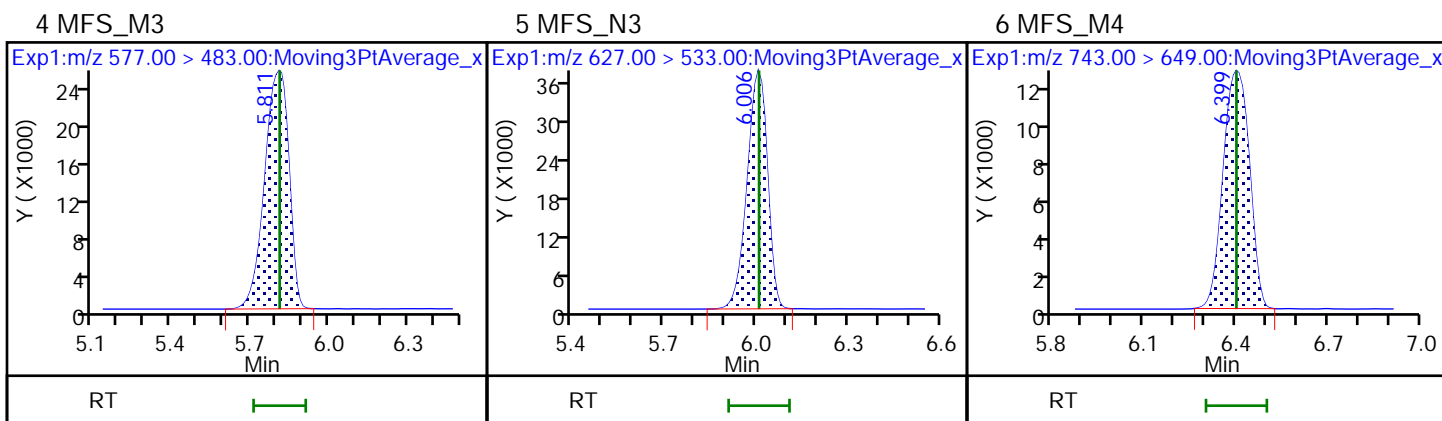
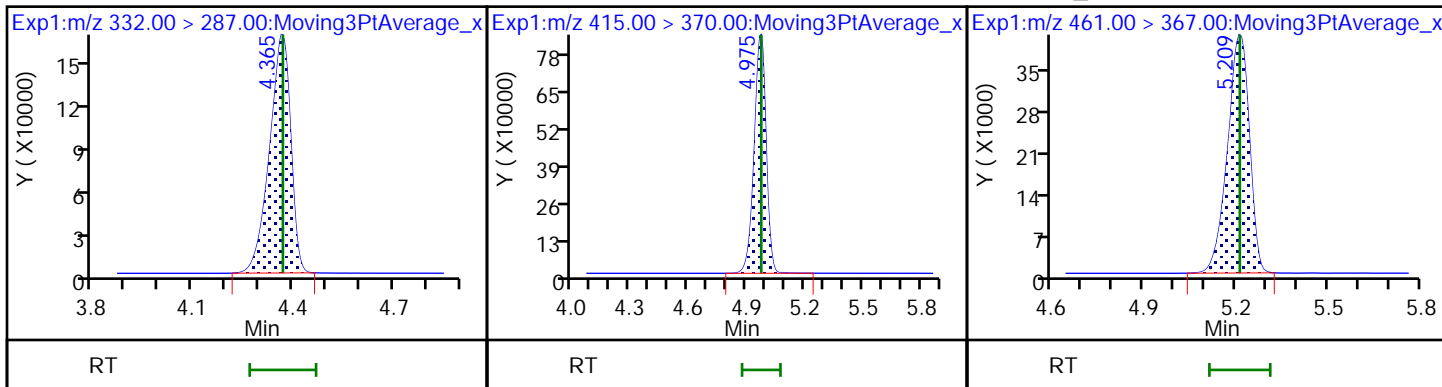
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 25-Jul-2022 10:36:44 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:53:58 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:24

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.364	4.369	-0.005	0.877	753305	4.82	96.4	2341
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3717610	5.00		4166
3 MFS_N2	461.00 > 367.00	5.215	5.211	0.004	1.195	433557	1.05	109	5056
4 MFS_M3	577.00 > 483.00	5.816	5.812	0.004	1.333	340112	1.04	106	1744
5 MFS_N3	627.00 > 533.00	6.013	6.009	0.004	1.378	384697	1.06	106	2477
6 MFS_M4	743.00 > 649.00	6.401	6.400	0.001	1.467	154852	1.02	104	2678
7 MFS_N4	793.00 > 699.00	6.537	6.538	-0.001	1.498	185587	1.04	104	2495
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.585	165247	1.00	99.1	3732

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-03.d

Injection Date: 25-Jul-2022 10:36:44

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

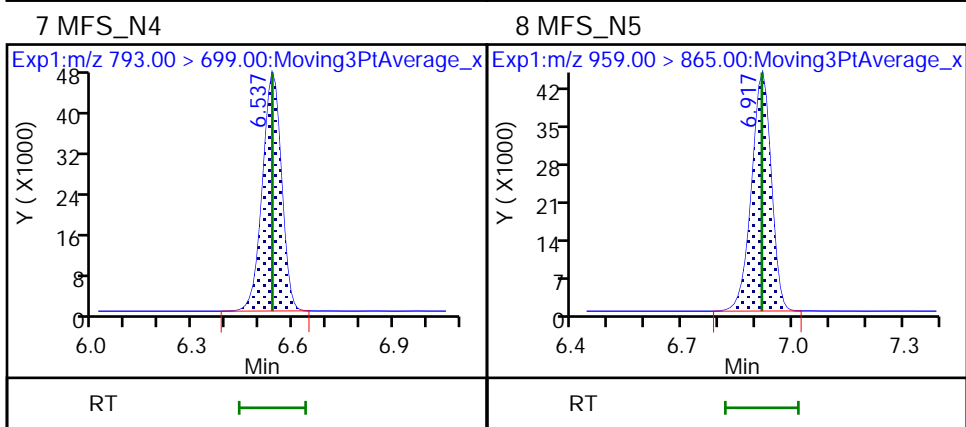
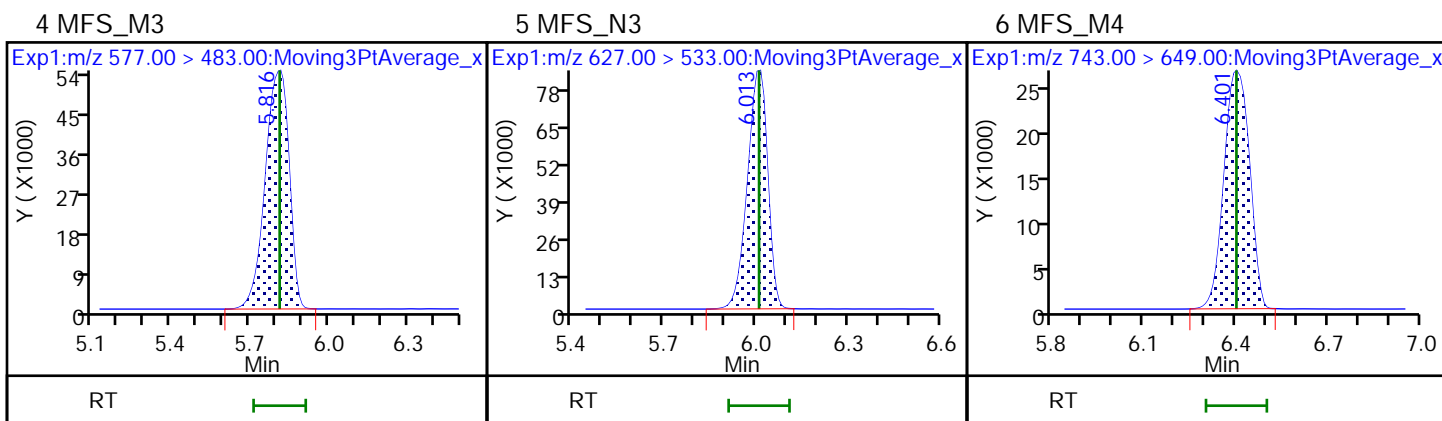
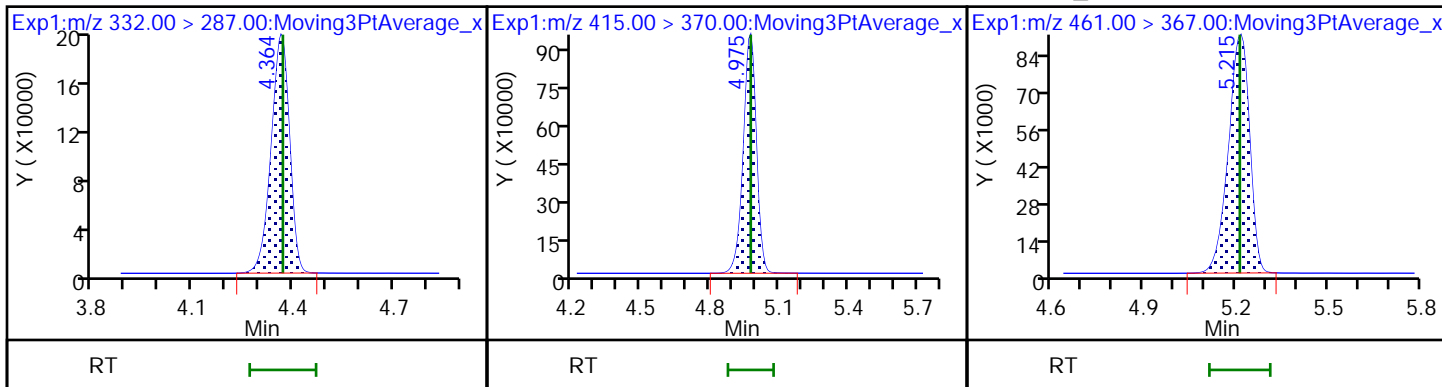
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 25-Jul-2022 10:49:20 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:53:58 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:29

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.370	4.369	0.001	0.878	756174	4.85	97.0	2020
* 2 13C2 PFOA	415.00 > 370.00	4.977	4.975	0.002		3708908	5.00		3960
3 MFS_N2	461.00 > 367.00	5.213	5.211	0.002	1.193	2059979	5.25	109	14472
4 MFS_M3	577.00 > 483.00	5.814	5.812	0.002	1.331	1577241	5.07	103	2486
5 MFS_N3	627.00 > 533.00	6.012	6.009	0.003	1.376	1810460	5.15	103	3958
6 MFS_M4	743.00 > 649.00	6.401	6.400	0.001	1.465	755564	5.12	104	3347
7 MFS_N4	793.00 > 699.00	6.538	6.538	0.0	1.496	853486	4.91	98.7	4328
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.583	816270	4.93	97.6	6842

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-04.d

Injection Date: 25-Jul-2022 10:49:20

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

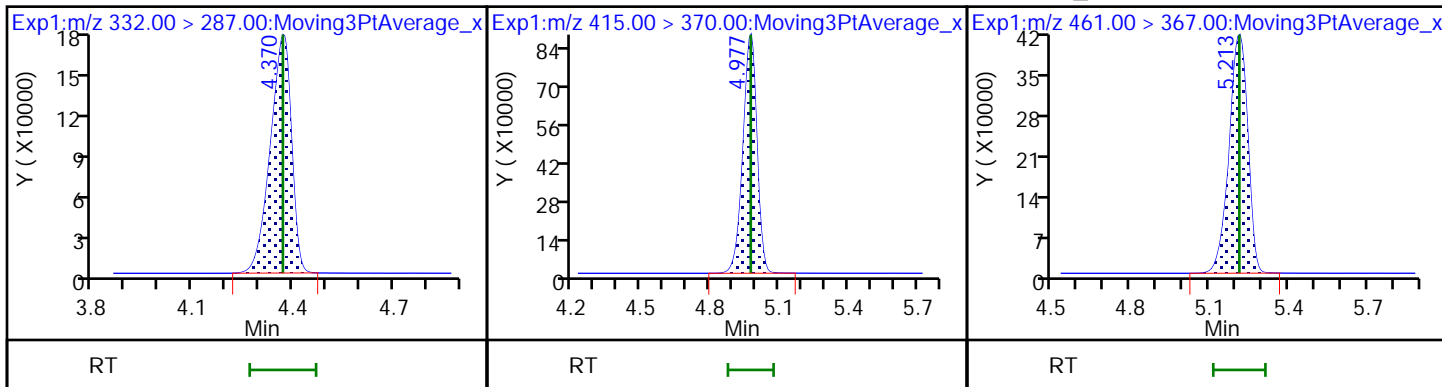
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

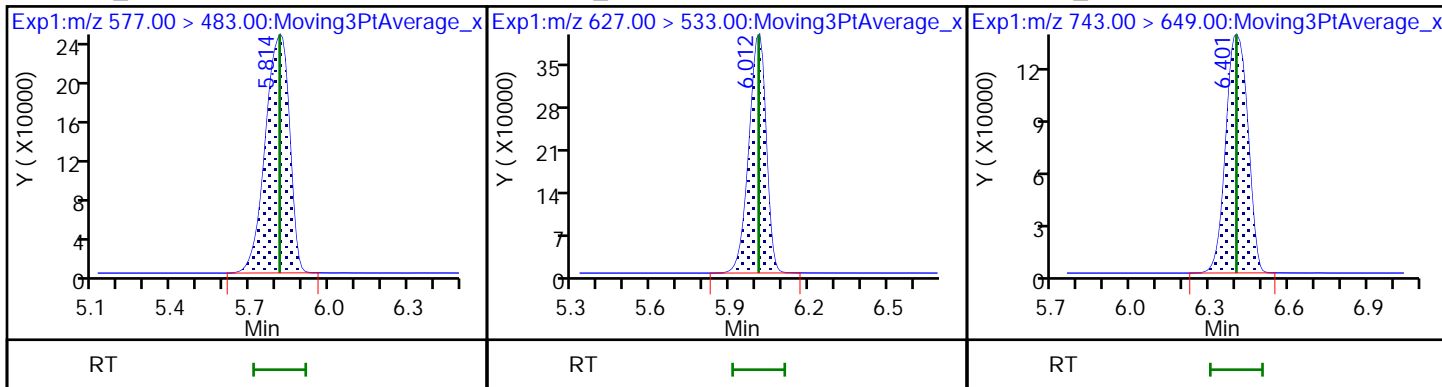
3 MFS_N2



4 MFS_M3

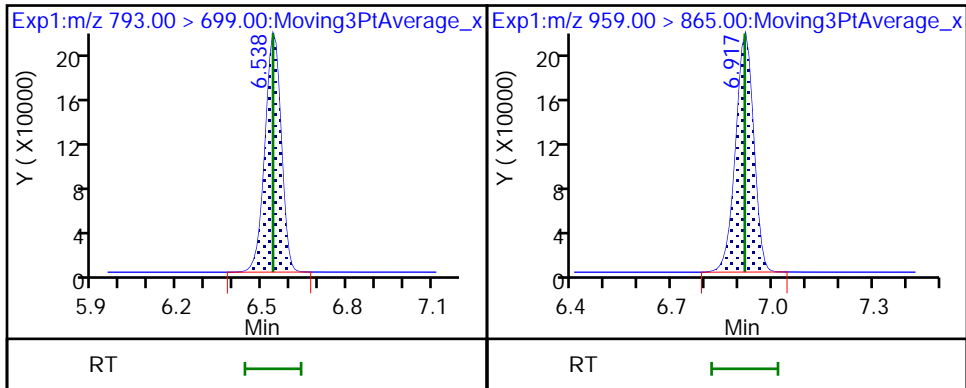
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 25-Jul-2022 11:01:56 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:53:59 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:11

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.879	786829	5.06	101	1994
* 2 13C2 PFOA	415.00 > 370.00	4.972	4.975	-0.003		3698325	5.00		4056
3 MFS_N2	461.00 > 367.00	5.209	5.211	-0.002	1.192	4210775	10.4	108	18726
4 MFS_M3	577.00 > 483.00	5.809	5.812	-0.003	1.330	3331318	10.4	105	2939
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.374	3876560	10.6	106	4058
6 MFS_M4	743.00 > 649.00	6.398	6.400	-0.002	1.465	1603304	10.5	107	3743
7 MFS_N4	793.00 > 699.00	6.534	6.538	-0.004	1.496	1754721	9.97	100	4824
8 MFS_N5	959.00 > 865.00	6.908	6.915	-0.007	1.581	1782705	10.5	104	8809

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-05.d

Injection Date: 25-Jul-2022 11:01:56

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

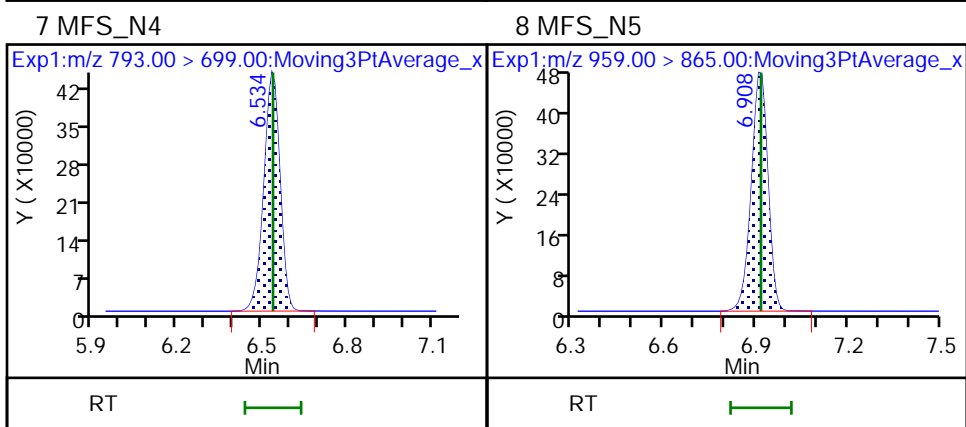
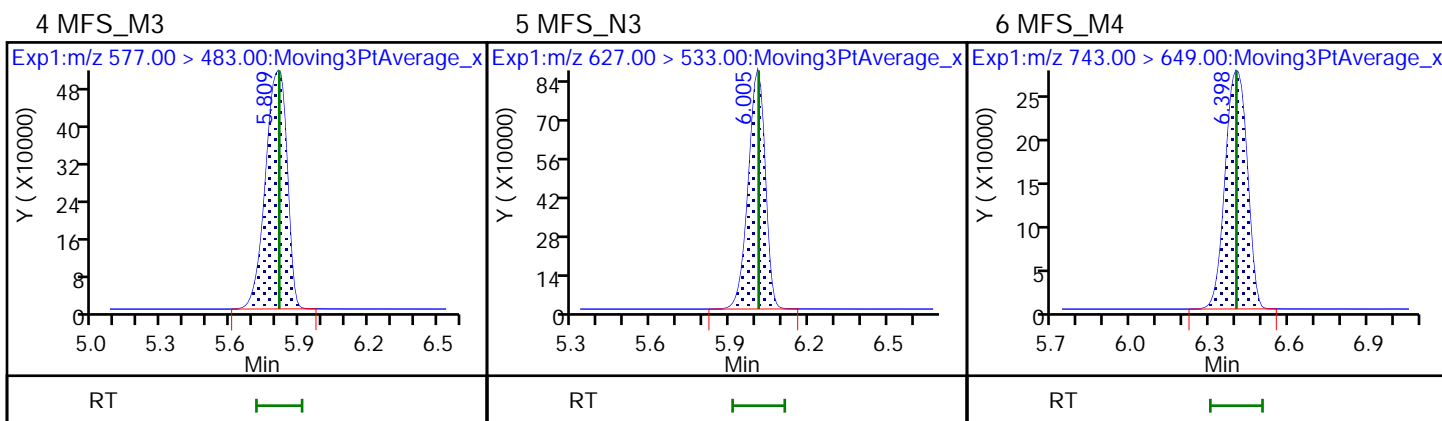
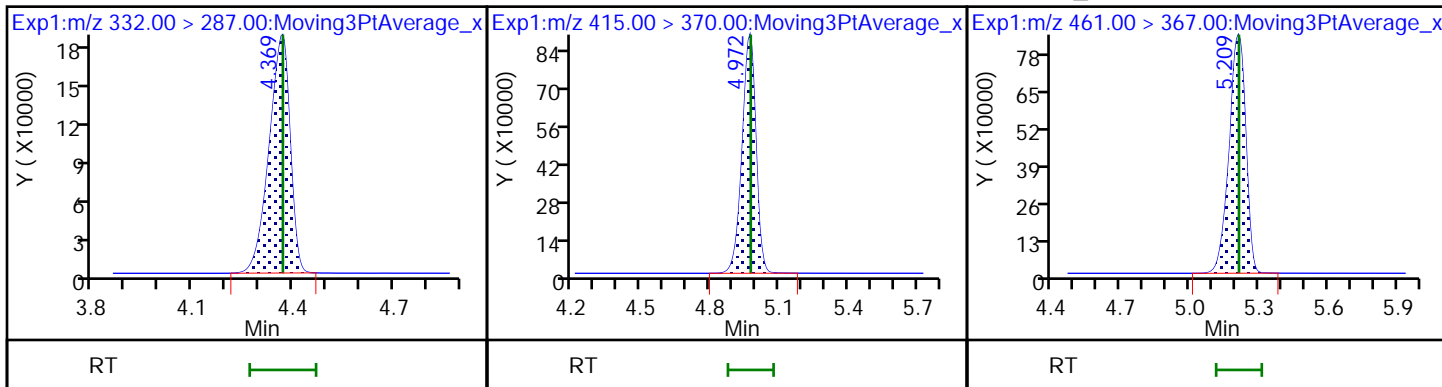
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 25-Jul-2022 11:14:33 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:54:00 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:37

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA									
332.00 > 287.00	4.370	4.369	0.001	0.878	785777	5.00	99.9	2115	
* 2 13C2 PFOA									
415.00 > 370.00	4.976	4.975	0.001		3740259	5.00		4168	
3 MFS_N2									
461.00 > 367.00	5.210	5.211	-0.001	1.192	10001931	24.8	103	25599	
4 MFS_M3									
577.00 > 483.00	5.811	5.812	-0.001	1.330	8071654	25.2	103	3750	
5 MFS_N3									
627.00 > 533.00	6.006	6.009	-0.003	1.374	9293769	25.6	102	4689	
6 MFS_M4									
743.00 > 649.00	6.400	6.400	0.0	1.464	3858635	25.3	103	4013	
7 MFS_N4									
793.00 > 699.00	6.535	6.538	-0.003	1.496	3945849	24.1	96.9	5177	
8 MFS_N5									
959.00 > 865.00	6.917	6.915	0.002	1.583	4176225	25.9	103	10288	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-06.d

Injection Date: 25-Jul-2022 11:14:33

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

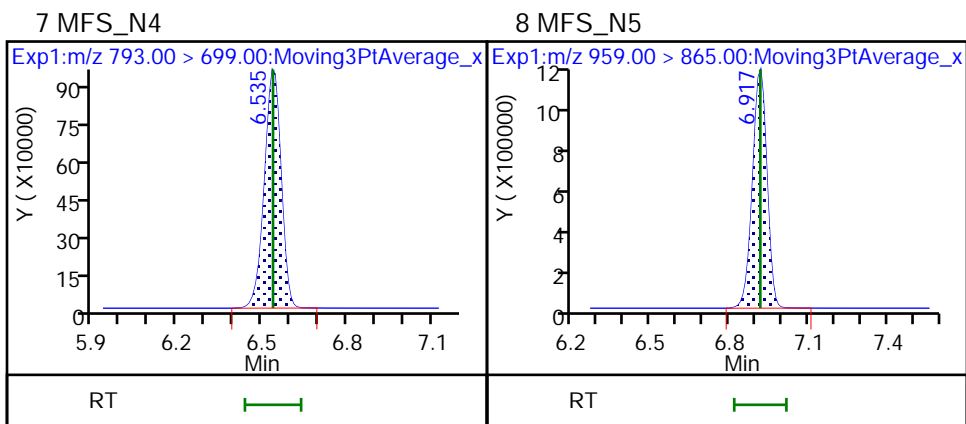
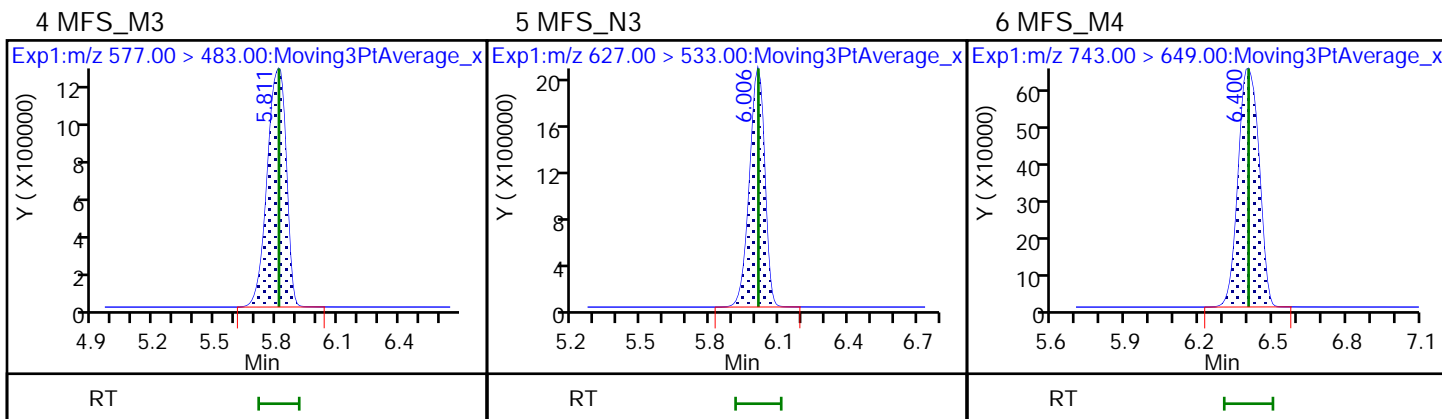
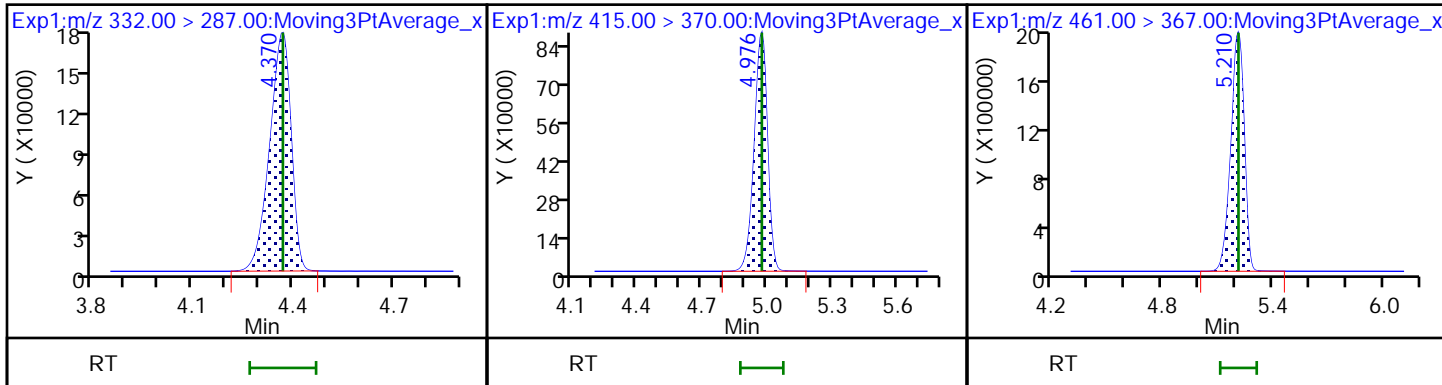
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 25-Jul-2022 11:27:11 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:54:01 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:41

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.370	4.369	0.001	0.878	789984	5.22	104	2224
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3601684	5.00		4130
3 MFS_N2	461.00 > 367.00	5.209	5.211	-0.002	1.192	18752337	46.3	96.1	26283
4 MFS_M3	577.00 > 483.00	5.811	5.812	-0.001	1.330	15395563	47.9	97.4	4103
5 MFS_N3	627.00 > 533.00	6.006	6.009	-0.003	1.375	17734438	48.7	97.2	6274
6 MFS_M4	743.00 > 649.00	6.400	6.400	0.0	1.465	7257372	47.4	96.6	5008
7 MFS_N4	793.00 > 699.00	6.538	6.538	0.0	1.496	7201338	50.9	102	5380
8 MFS_N5	959.00 > 865.00	6.912	6.915	-0.003	1.582	7371449	49.3	97.7	9760

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Injection Date: 25-Jul-2022 11:27:11

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

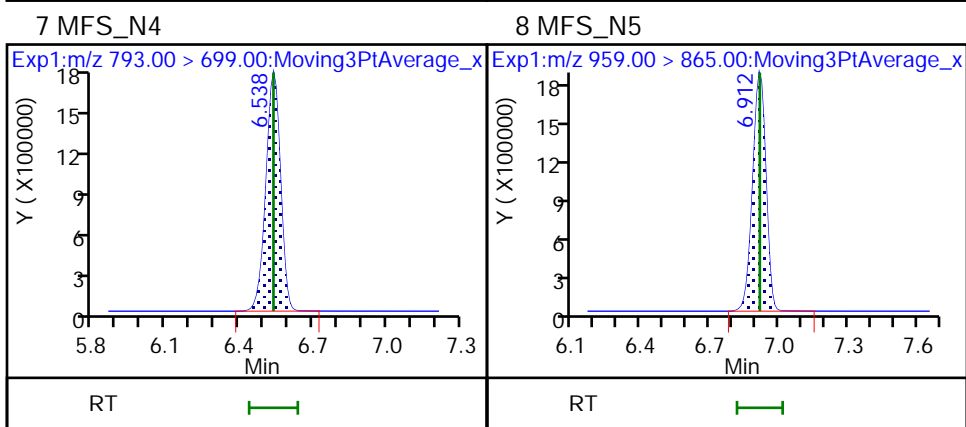
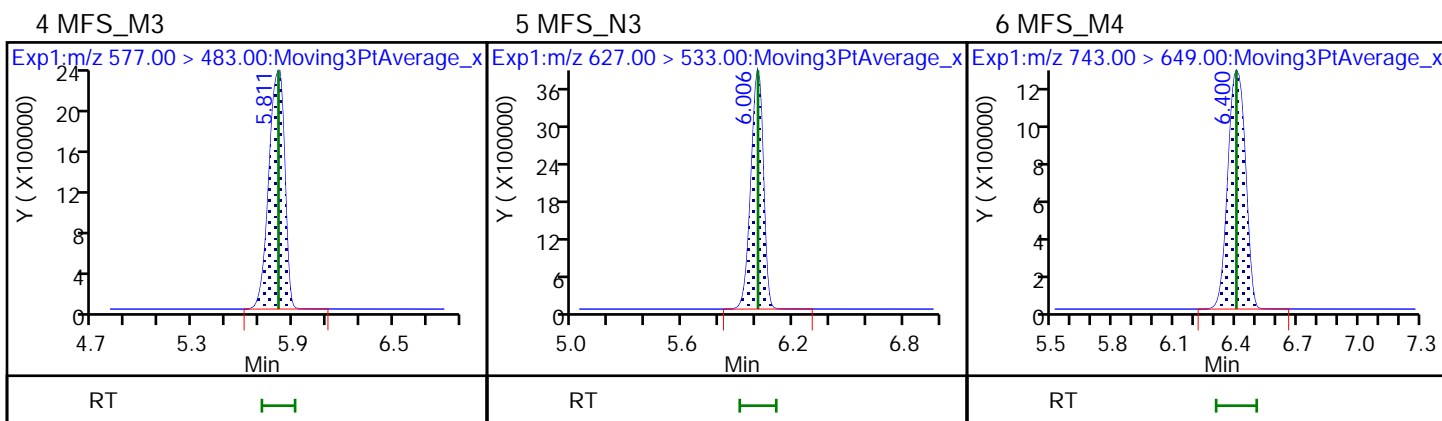
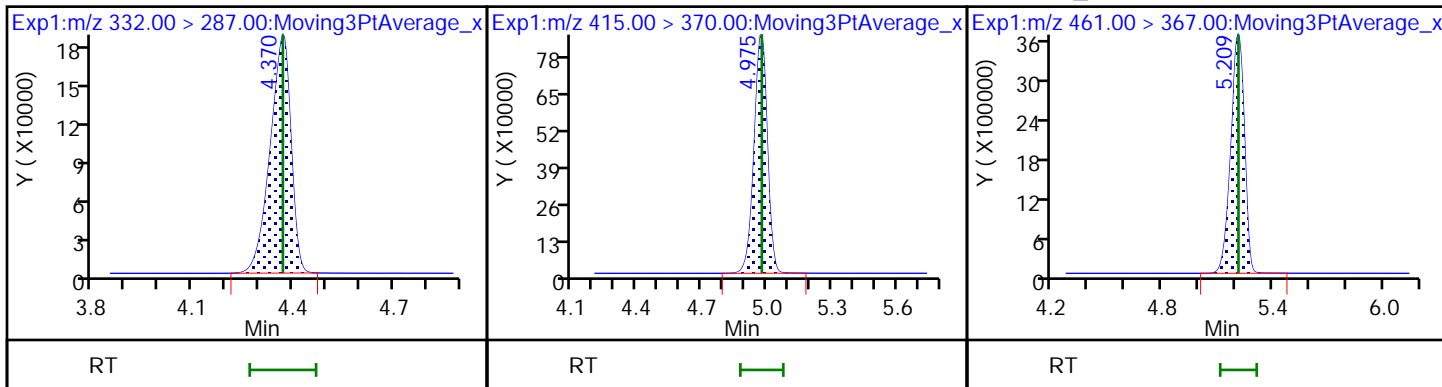
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Calibration

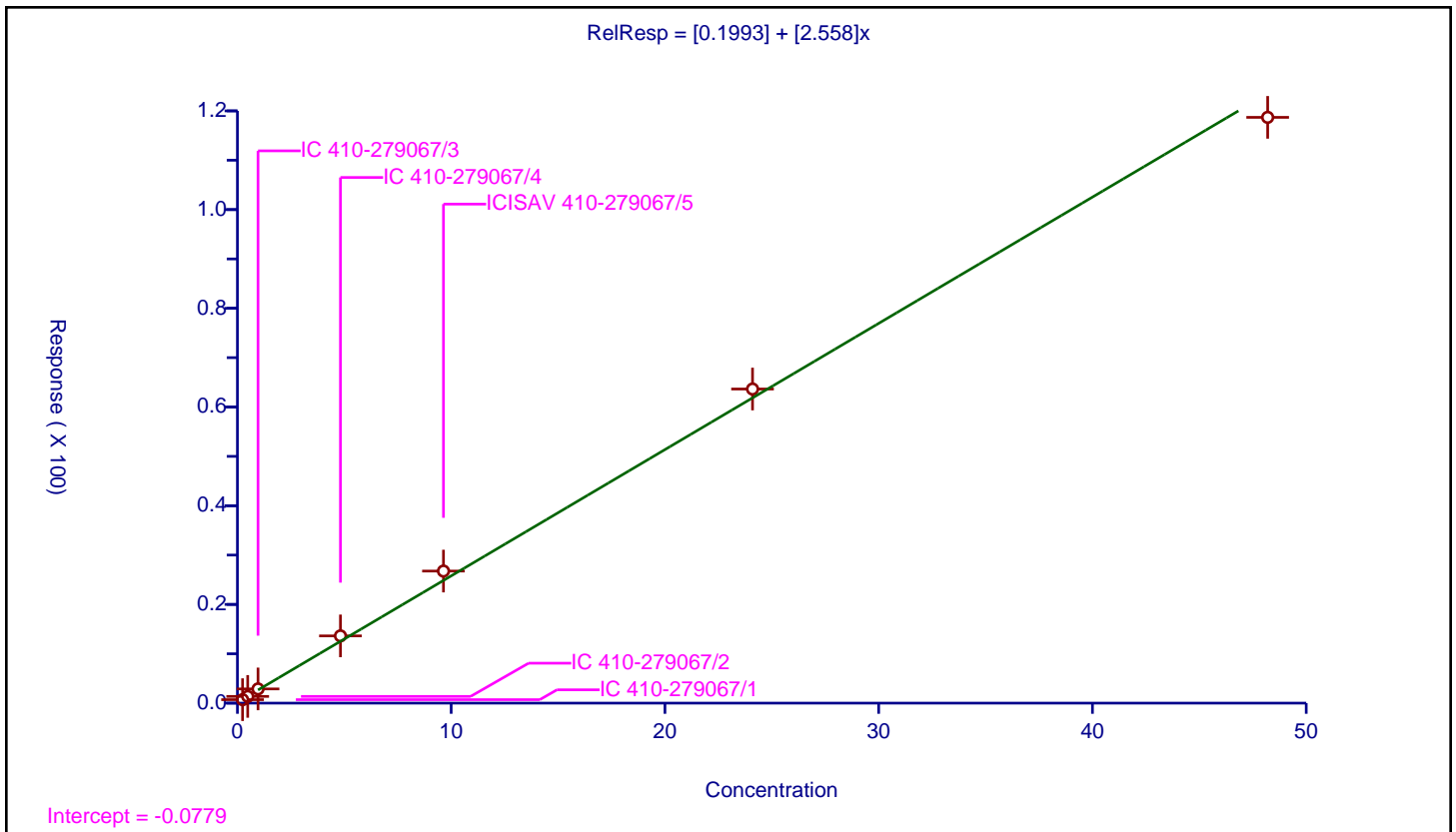
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1993
Slope:	2.558

Error Coefficients	
Standard Error:	9740000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279067/1	0.240983	0.702633	5.0	782813.0	2.915695	Y
2	IC 410-279067/2	0.481966	1.36053	5.0	736500.0	2.822876	Y
3	IC 410-279067/3	0.963932	2.877699	5.0	753305.0	2.985377	Y
4	IC 410-279067/4	4.819658	13.621065	5.0	756174.0	2.826148	Y
5	ICISAV 410-279067/5	9.639316	26.757879	5.0	786829.0	2.775911	Y
6	IC 410-279067/6	24.098289	63.643572	5.0	785777.0	2.641	Y
7	IC 410-279067/7	48.196578	118.688081	5.0	789984.0	2.462583	Y



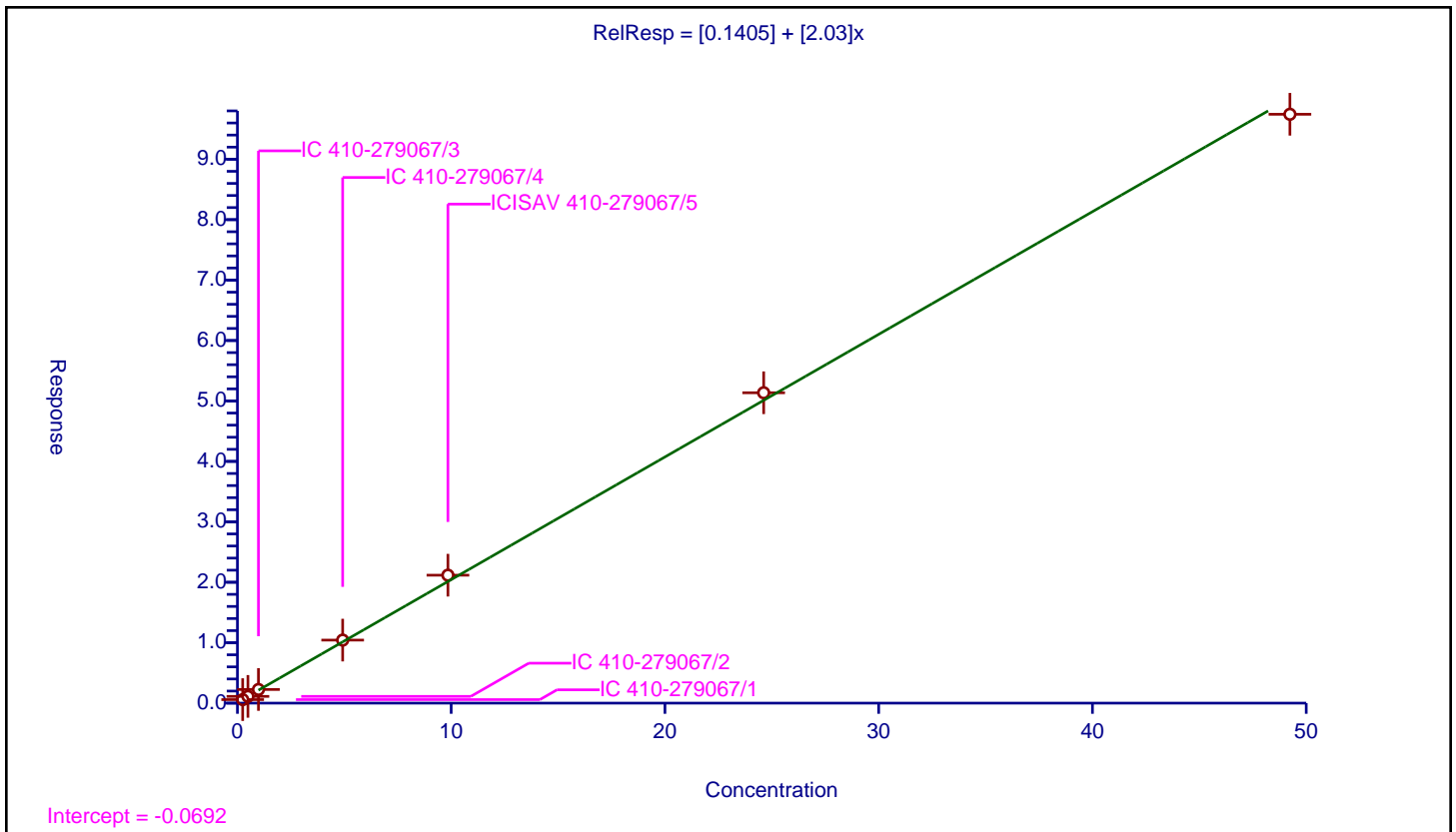
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1405
Slope:	2.03

Error Coefficients	
Standard Error:	7950000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279067/1	0.246191	0.58178	5.0	782813.0	2.363121	Y
2	IC 410-279067/2	0.492383	1.116952	5.0	736500.0	2.268462	Y
3	IC 410-279067/3	0.984766	2.257465	5.0	753305.0	2.292389	Y
4	IC 410-279067/4	4.923828	10.429088	5.0	756174.0	2.118085	Y
5	ICISAV 410-279067/5	9.847656	21.169263	5.0	786829.0	2.149675	Y
6	IC 410-279067/6	24.619141	51.360971	5.0	785777.0	2.086221	Y
7	IC 410-279067/7	49.238282	97.442246	5.0	789984.0	1.978994	Y



Calibration

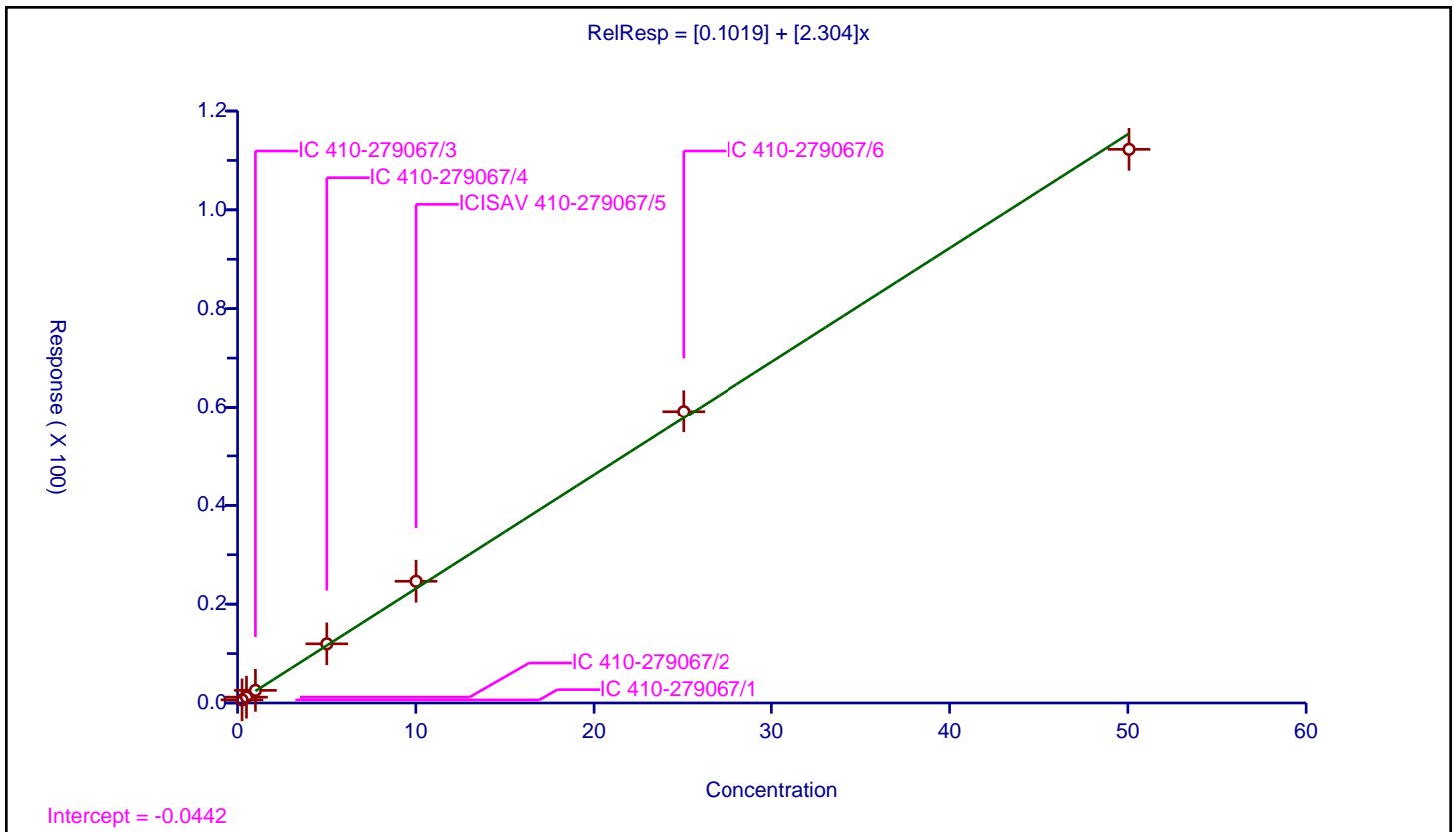
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1019
Slope:	2.304

Error Coefficients	
Standard Error:	9160000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279067/1	0.250322	0.630144	5.0	782813.0	2.517332	Y
2	IC 410-279067/2	0.500644	1.177196	5.0	736500.0	2.351362	Y
3	IC 410-279067/3	1.001289	2.553395	5.0	753305.0	2.550108	Y
4	IC 410-279067/4	5.006444	11.971187	5.0	756174.0	2.391156	Y
5	ICISAV 410-279067/5	10.012888	24.634069	5.0	786829.0	2.460236	Y
6	IC 410-279067/6	25.03222	59.137446	5.0	785777.0	2.362453	Y
7	IC 410-279067/7	50.064439	112.245552	5.0	789984.0	2.242022	Y



Calibration

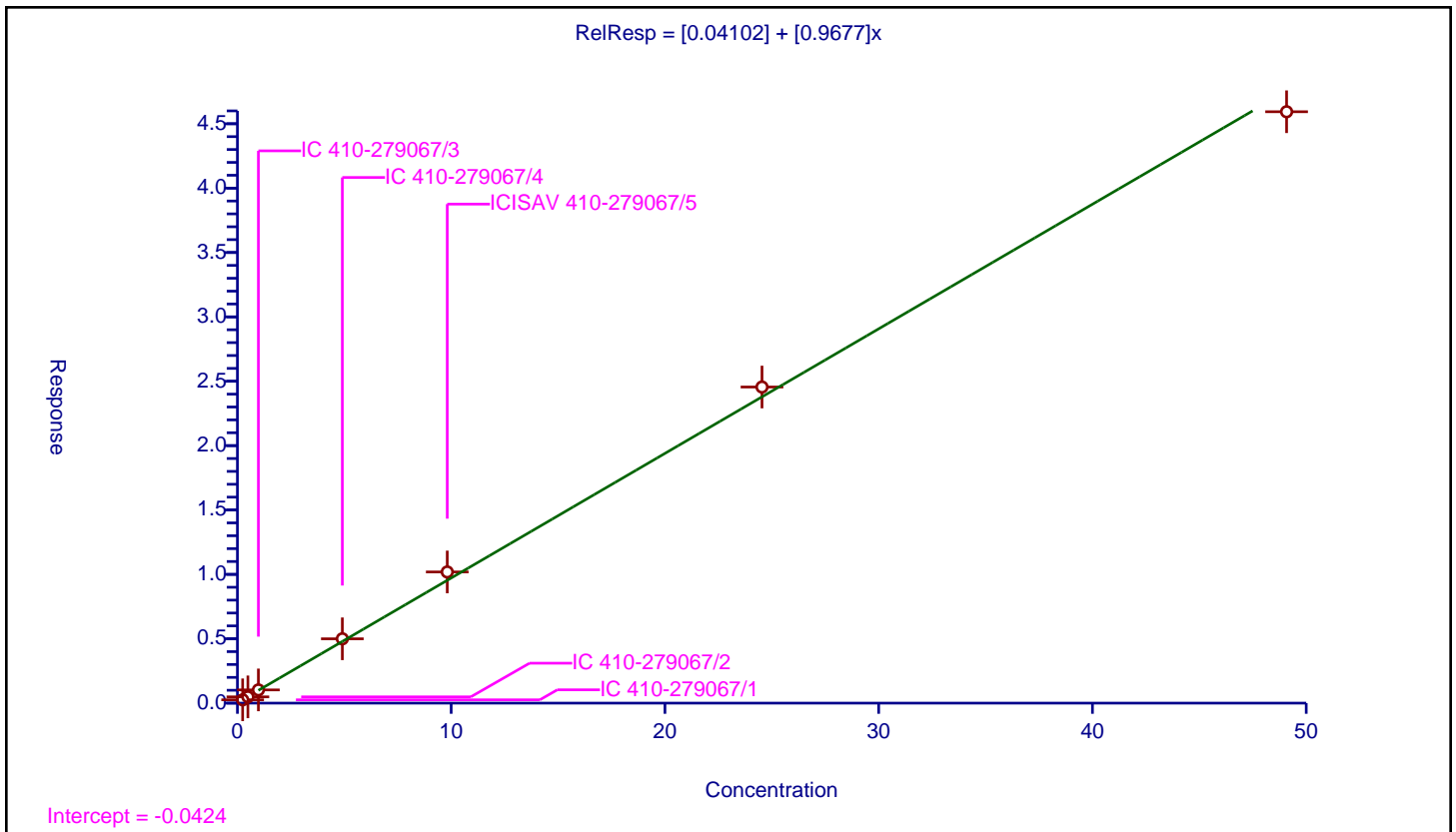
/ MFS_M4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.04102
Slope:	0.9677

Error Coefficients	
Standard Error:	3760000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279067/1	0.245407	0.257667	5.0	782813.0	1.049957	Y
2	IC 410-279067/2	0.490814	0.487067	5.0	736500.0	0.992365	Y
3	IC 410-279067/3	0.981629	1.027817	5.0	753305.0	1.047053	Y
4	IC 410-279067/4	4.908144	4.995967	5.0	756174.0	1.017893	Y
5	ICISAV 410-279067/5	9.816288	10.188389	5.0	786829.0	1.037907	Y
6	IC 410-279067/6	24.540719	24.55299	5.0	785777.0	1.0005	Y
7	IC 410-279067/7	49.081438	45.933664	5.0	789984.0	0.935866	Y



Calibration

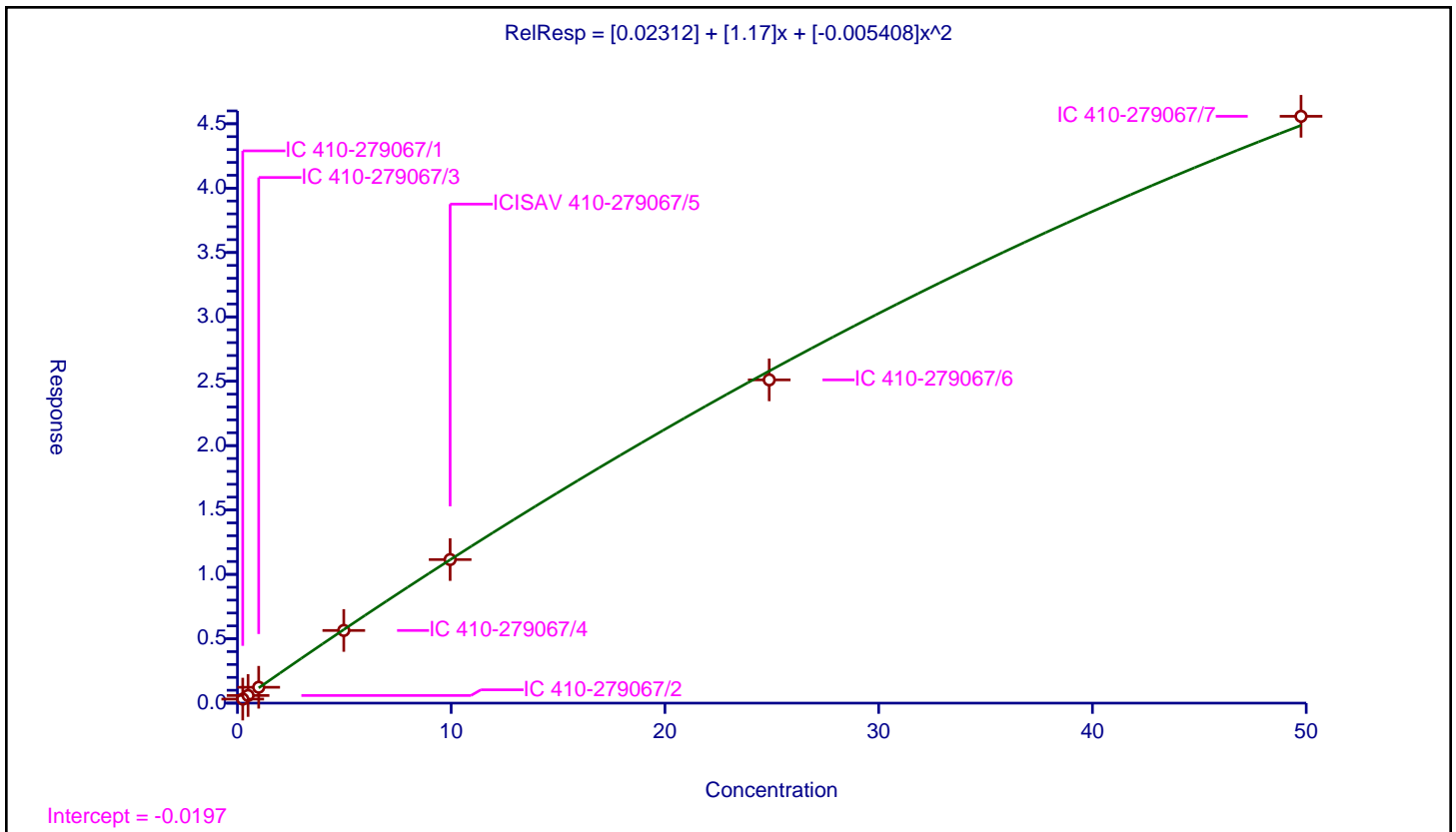
/ MFS_N4

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.02312
Slope:	1.17
Second Order:	-0.005408

Error Coefficients	
Standard Error:	4220000
Relative Standard Error:	3.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279067/1	0.248788	0.314104	5.0	782813.0	1.262539	Y
2	IC 410-279067/2	0.497576	0.592261	5.0	736500.0	1.190292	Y
3	IC 410-279067/3	0.995152	1.231818	5.0	753305.0	1.23782	Y
4	IC 410-279067/4	4.975759	5.64345	5.0	756174.0	1.134189	Y
5	ICISAV 410-279067/5	9.951518	11.150587	5.0	786829.0	1.120491	Y
6	IC 410-279067/6	24.878795	25.107944	5.0	785777.0	1.009211	Y
7	IC 410-279067/7	49.75759	45.579012	5.0	789984.0	0.916021	Y



Calibration

/ MFS_N5

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

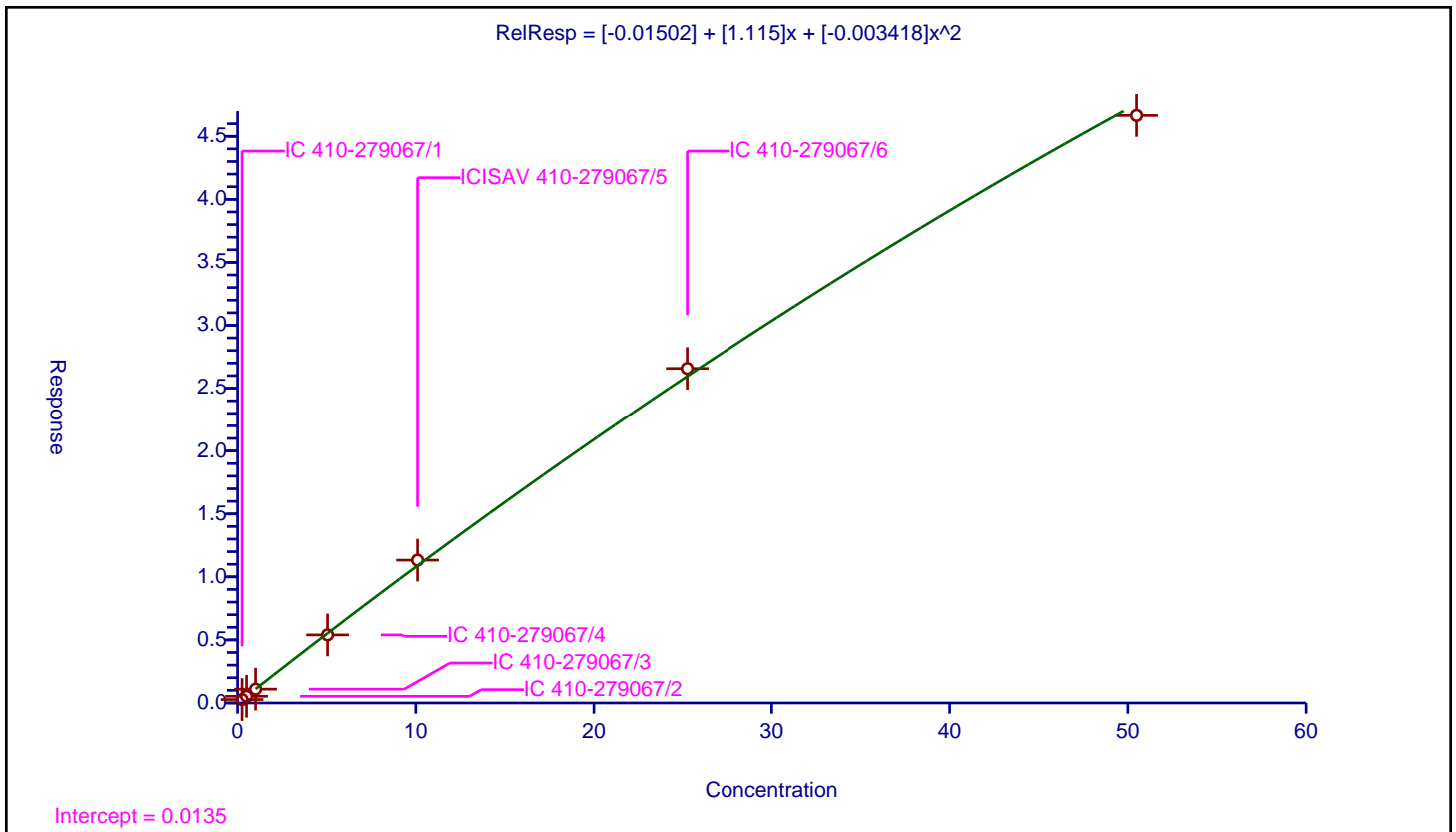
Curve Coefficients

Intercept: -0.01502
 Slope: 1.115
 Second Order: -0.003418

Error Coefficients

Standard Error: 4350000
 Relative Standard Error: 3.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-279067/1	0.252449	0.271003	5.0	782813.0	1.073499	Y
2	IC 410-279067/2	0.504897	0.530489	5.0	736500.0	1.050687	Y
3	IC 410-279067/3	1.009795	1.096813	5.0	753305.0	1.086175	Y
4	IC 410-279067/4	5.048973	5.397369	5.0	756174.0	1.069003	Y
5	ICISAV 410-279067/5	10.097945	11.328414	5.0	786829.0	1.121853	Y
6	IC 410-279067/6	25.244863	26.573856	5.0	785777.0	1.052644	Y
7	IC 410-279067/7	50.489726	46.655685	5.0	789984.0	0.924063	Y



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	3.1413 2.8445	2.9008 2.4887	2.9557	2.9518	2.9432	L1ID	0.217 4	2.652 3						0.9940		0.9900	
MFS_M3	2.4507 2.1452	2.2440 1.9254	2.1663	2.2241	2.1896	L1ID	0.157 6	2.023 9						0.9960		0.9900	
MFS_N3	2.6235 2.4669	2.3256 2.2451	2.4411	2.4745	2.5266	L1ID	0.093 4	2.345 2						0.9970		0.9900	
MFS_M4	1.1959 1.1147	1.1009 0.9770	1.1206	1.1335	1.1472	L1ID	0.068 8	1.039 1						0.9950		0.9900	
MFS_N4	1.5026 1.1293	1.3814 +++++	1.3612	1.3436	1.2213	L1ID	0.124 8	1.169 8						0.9960		0.9900	
MFS_N5	1.3024 1.1832	1.1960 +++++	1.2566	1.3302	1.3063	L1ID	0.027 6	1.229 0						0.9970		0.9900	
13C3 HFPO-DA	0.2006 0.1992	0.2065 0.2105	0.1979	0.1942	0.2044	Ave		0.201 9			2.8						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		L1ID	95417 8499793	192513 16896802	378434	1780473	3848185	0.241 24.1	0.482 48.2	0.964	4.82	9.64
MFS_M3		L1ID	76048 6548749	152139 13354811	283357	1370537	2924780	0.246 24.6	0.492 49.2	0.985	4.92	9.85
MFS_N3		L1ID	82777 7657320	160319 15833576	324662	1550403	3431578	0.250 25.0	0.501 50.1	1.00	5.01	10.0
MFS_M4		L1ID	36993 3392053	74399 6755284	146111	696263	1527454	0.245 24.5	0.491 49.1	0.982	4.91	9.82
MFS_N4		L1ID	47121 3483893	94642 +++++	179924	836694	1648528	0.249 24.9	0.498 +++++	0.995	4.98	9.95
MFS_N5		L1ID	41444 3703732	83147 +++++	168541	840493	1789253	0.252 25.2	0.505 +++++	1.01	5.05	10.1
13C3 HFPO-DA	13PF OA	Ave	630232 620002	688476 704345	664135	625747	678213	5.00 5.00	5.00 5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
L1ID = Linear 1/conc IsoDil

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90323-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-15.6 -6.3	-7.6	2.9	9.6	10.1	6.9	50 30	30	30	30	30	30
MFS_M3	-10.5 -5.0	-4.9	-0.9	8.3	7.4	5.7	50 30	30	30	30	30	30
MFS_N3	-4.1 -4.3	-8.8	0.1	4.7	7.3	5.0	50 30	30	30	30	30	30
MFS_M4	-11.9 -6.1	-7.6	1.1	7.7	9.7	7.0	50 30	30	30	30	30	30
MFS_N4	-14.4 ++++	-3.4	5.6	12.7	3.3	-3.9	50	30	30	30	30	30
MFS_N5	-2.9 ++++	-7.1	0.0	7.8	6.1	-3.8	50	30	30	30	30	30
13C3 HFPO-DA	-0.6						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 05-Aug-2022 08:53:16 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:23

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									
332.00 > 287.00	4.385	4.387	-0.002	0.877	630232	4.97	99.4	2294	
* 2 13C2 PFOA									
415.00 > 370.00	4.998	4.996	0.002		3141195	5.00		4882	
3 MFS_N2									
461.00 > 367.00	5.242	5.239	0.003	1.196	95417	0.2035	84.4	1392	
4 MFS_M3									
577.00 > 483.00	5.854	5.849	0.005	1.335	76048	0.2202	89.5	446	
5 MFS_N3									
627.00 > 533.00	6.039	6.036	0.003	1.377	82777	0.2402	95.9	1464	
6 MFS_M4									
743.00 > 649.00	6.437	6.439	-0.002	1.468	36993	0.2162	88.1	1139	
7 MFS_N4									
793.00 > 699.00	6.568	6.565	0.003	1.498	47121	0.2129	85.6	1240	
8 MFS_N5									
959.00 > 865.00	6.942	6.944	-0.002	1.583	41444	0.2451	97.1	1814	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d

Injection Date: 05-Aug-2022 08:53:16

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

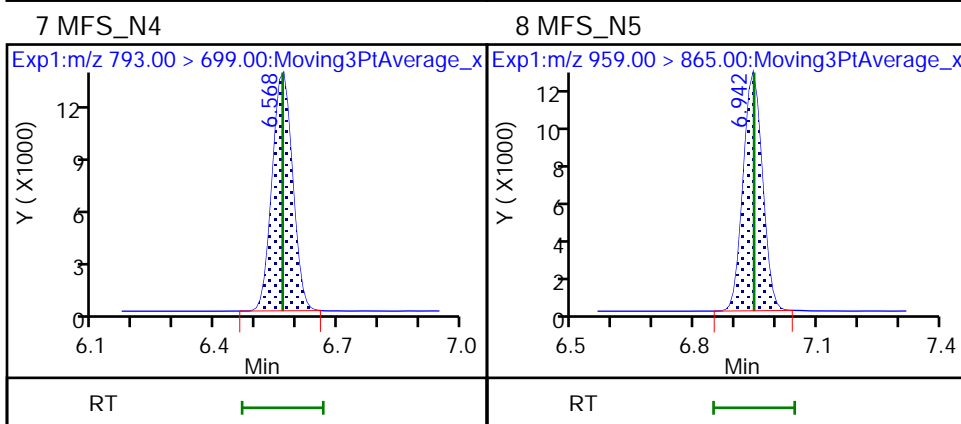
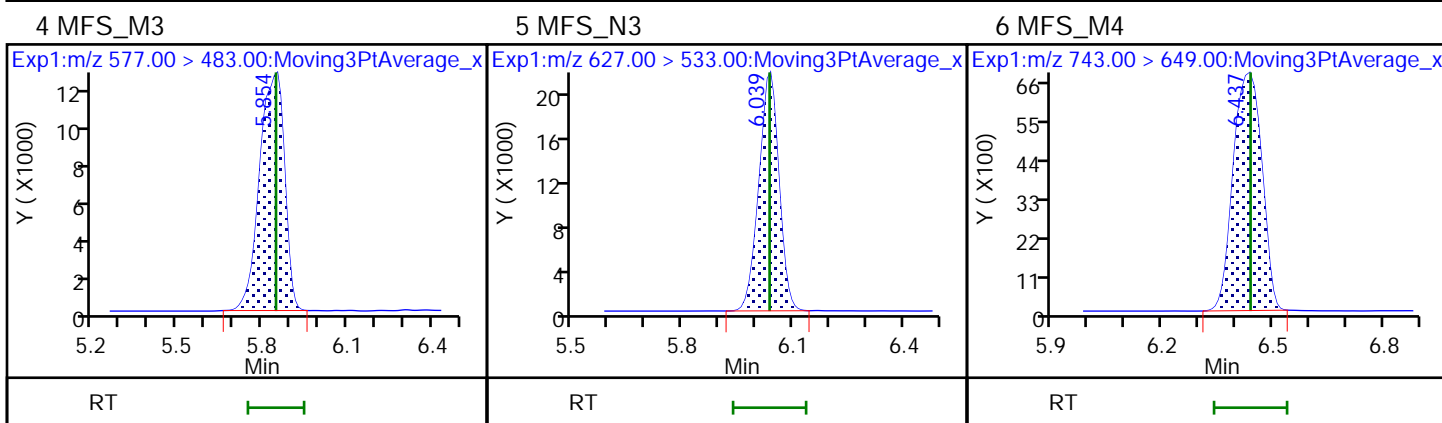
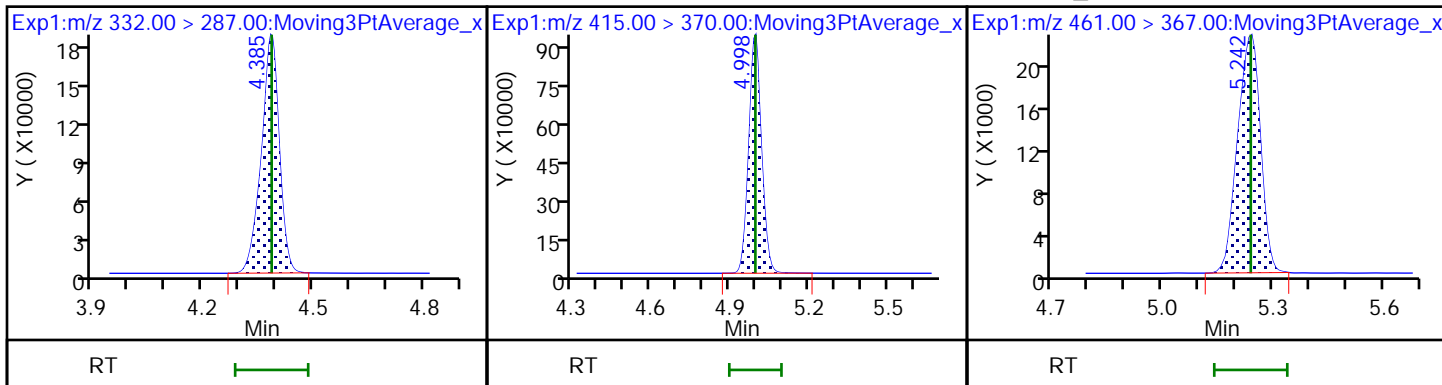
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 05-Aug-2022 09:05:51 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:17

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.391	4.387	0.004	0.878	688476	5.11	102	2607
* 2 13C2 PFOA	415.00 > 370.00	5.000	4.996	0.004		3333798	5.00		4432
3 MFS_N2	461.00 > 367.00	5.244	5.239	0.005	1.194	192513	0.4452	92.4	2755
4 MFS_M3	577.00 > 483.00	5.848	5.849	-0.001	1.332	152139	0.4681	95.1	712
5 MFS_N3	627.00 > 533.00	6.043	6.036	0.007	1.376	160319	0.4566	91.2	2373
6 MFS_M4	743.00 > 649.00	6.441	6.439	0.002	1.467	74399	0.4537	92.4	1695
7 MFS_N4	793.00 > 699.00	6.572	6.565	0.007	1.497	94642	0.4809	96.6	1980
8 MFS_N5	959.00 > 865.00	6.946	6.944	0.002	1.582	83147	0.4689	92.9	2585

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d

Injection Date: 05-Aug-2022 09:05:51

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

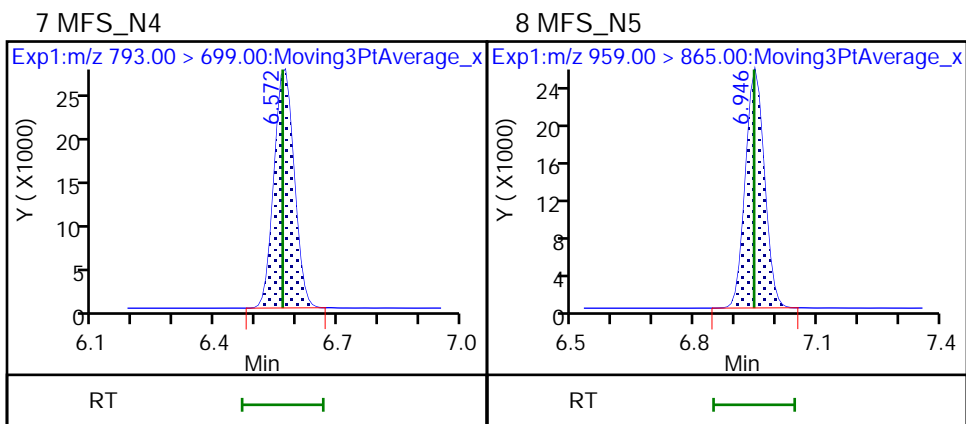
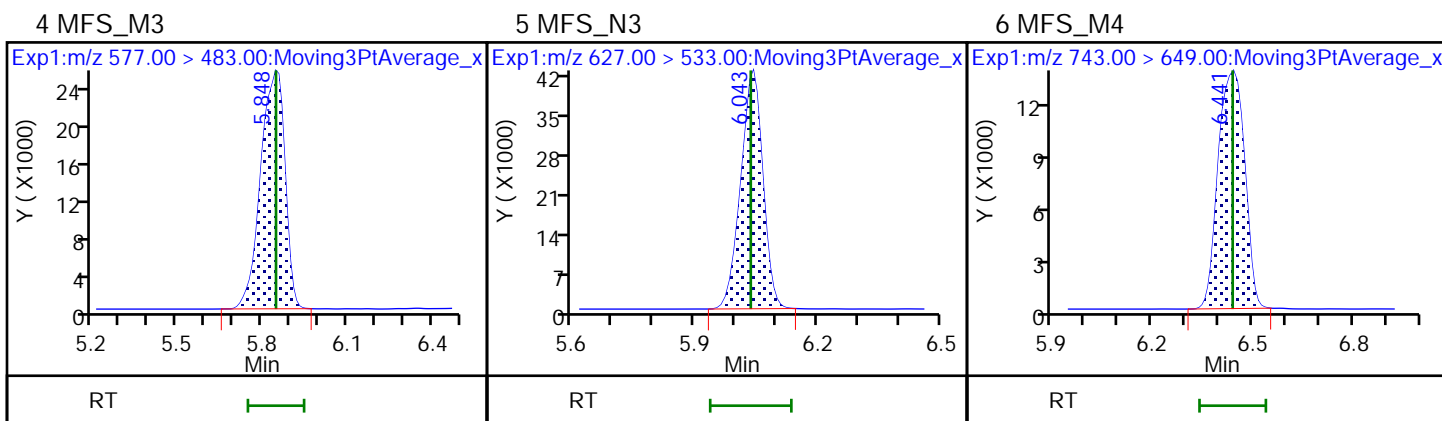
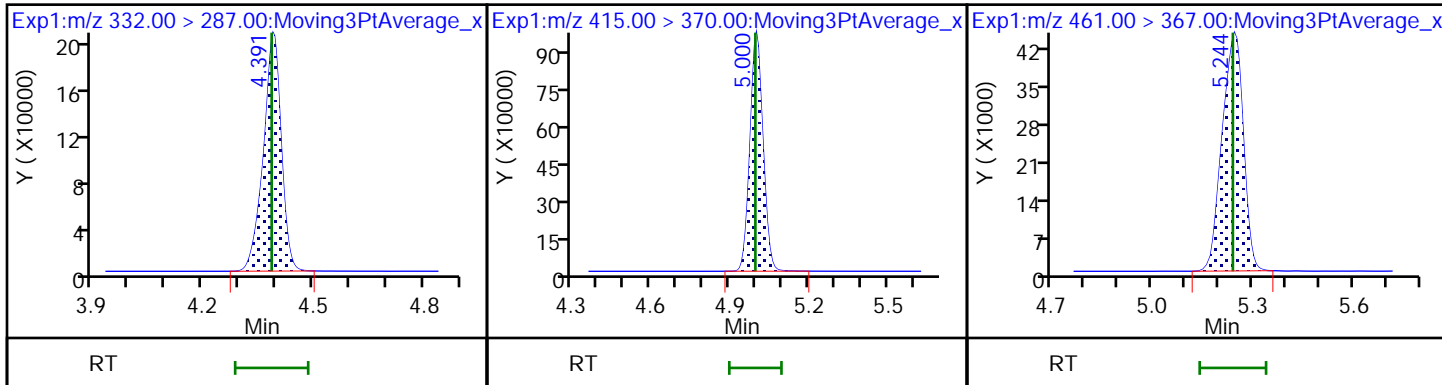
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 05-Aug-2022 09:18:28 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:37 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:13

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA

332.00 > 287.00 4.387 4.387 0.0 0.878 664135 4.90 98.0 2525

* 2 13C2 PFOA

415.00 > 370.00 4.997 4.996 0.001 3355597 5.00 5097

3 MFS_N2

461.00 > 367.00 5.238 5.239 -0.001 1.194 378434 0.99 103 4806

4 MFS_M3

577.00 > 483.00 5.849 5.849 0.0 1.333 283357 0.9762 99.1 1154

5 MFS_N3

627.00 > 533.00 6.036 6.036 0.0 1.376 324662 1.00 100 3444

6 MFS_M4

743.00 > 649.00 6.442 6.439 0.003 1.468 146111 0.99 101 2437

7 MFS_N4

793.00 > 699.00 6.564 6.565 -0.001 1.496 179924 1.05 106 3115

8 MFS_N5

959.00 > 865.00 6.945 6.944 0.001 1.583 168541 1.01 100 4762

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d

Injection Date: 05-Aug-2022 09:18:28

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

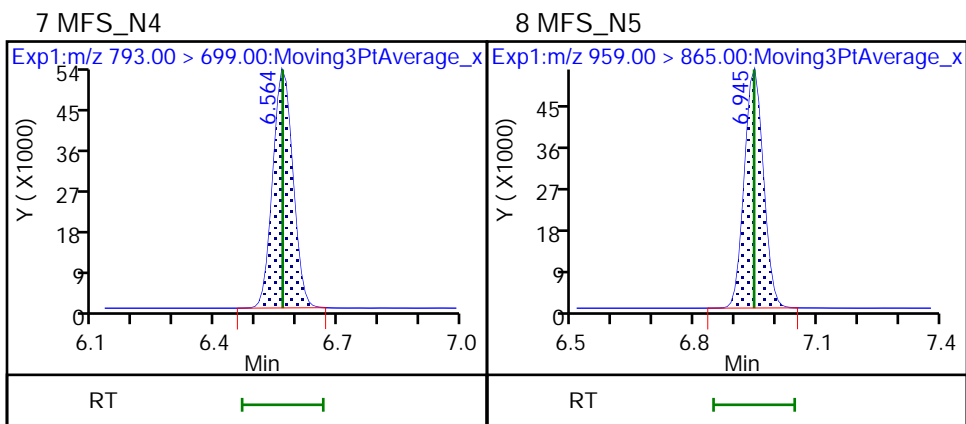
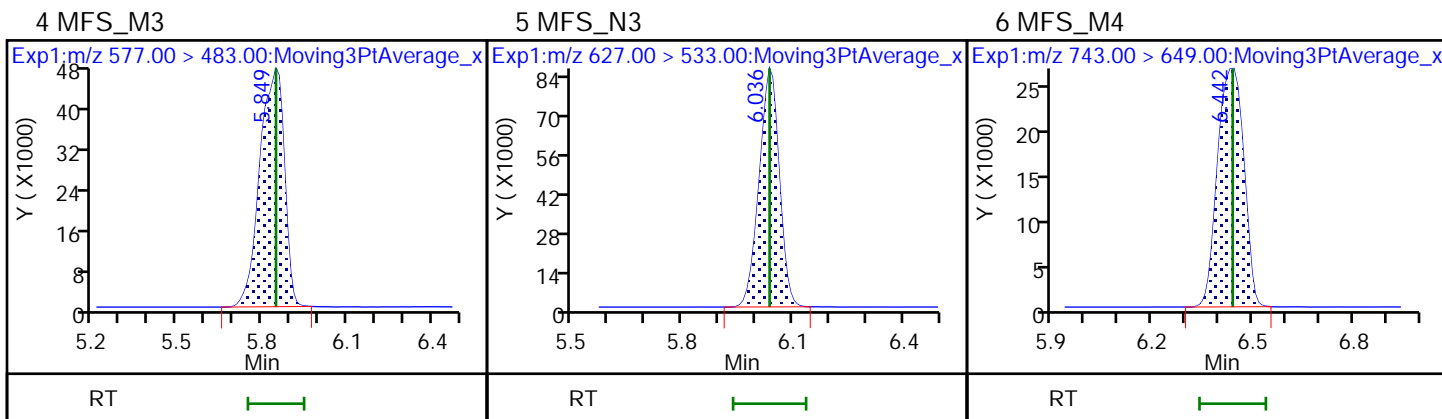
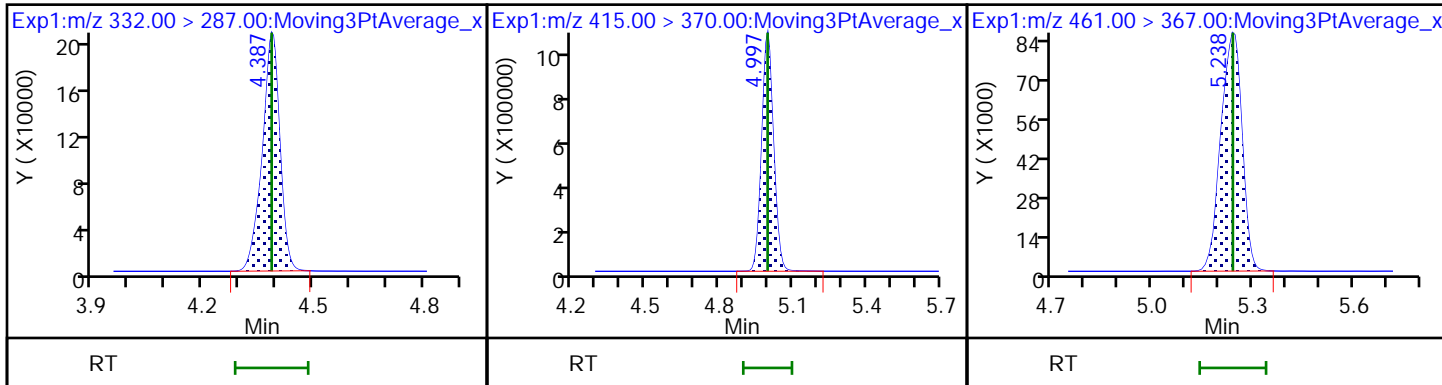
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 05-Aug-2022 09:31:03 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:38 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.384	4.387	-0.003	0.878	625747	4.81	96.2	2565
* 2 13C2 PFOA	415.00 > 370.00	4.991	4.996	-0.005		3222764	5.00		4580
3 MFS_N2	461.00 > 367.00	5.235	5.239	-0.004	1.194	1780473	5.28	110	15275
4 MFS_M3	577.00 > 483.00	5.843	5.849	-0.006	1.333	1370537	5.33	108	2789
5 MFS_N3	627.00 > 533.00	6.030	6.036	-0.006	1.375	1550403	5.24	105	4929
6 MFS_M4	743.00 > 649.00	6.436	6.439	-0.003	1.468	696263	5.29	108	4138
7 MFS_N4	793.00 > 699.00	6.558	6.565	-0.007	1.496	836694	5.61	113	5907
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.583	840493	5.44	108	7952

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d

Injection Date: 05-Aug-2022 09:31:03

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

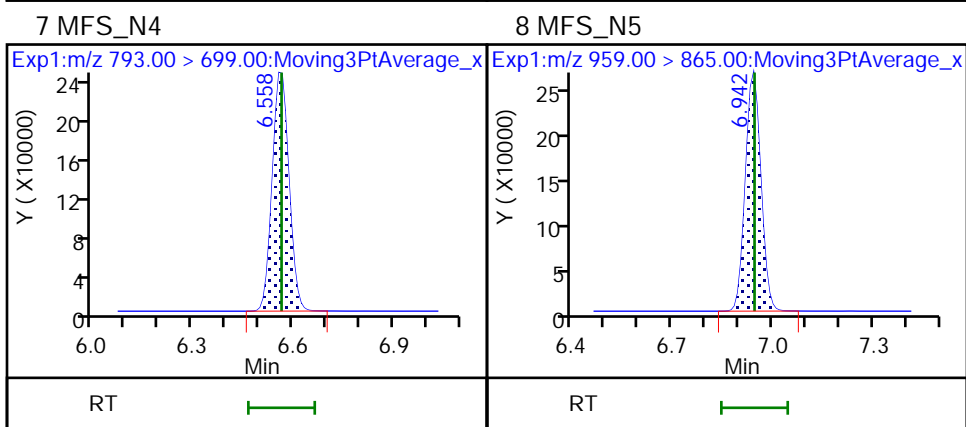
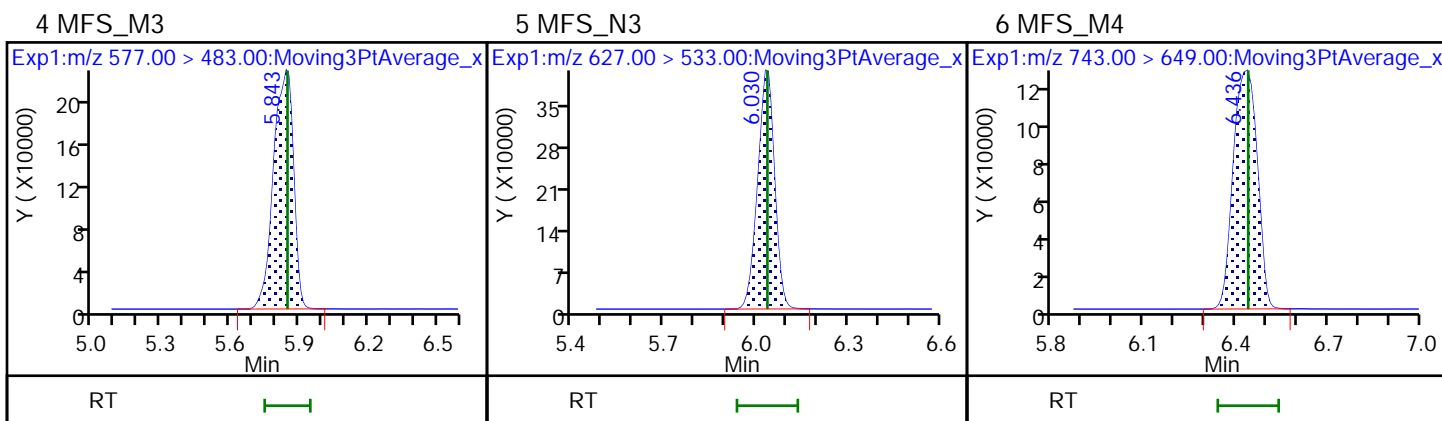
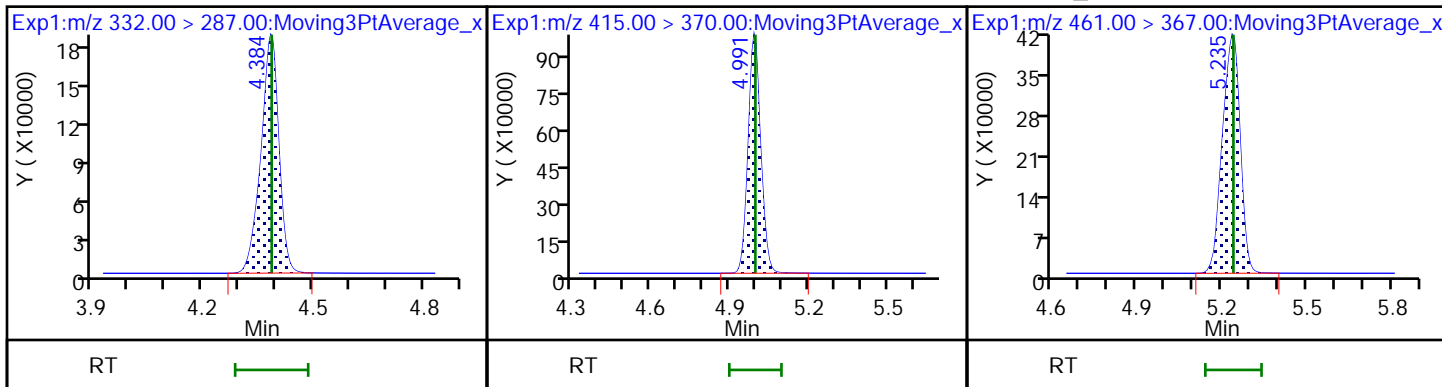
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 05-Aug-2022 09:43:40 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:48

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.387	-0.002	0.879	678213	5.06	101	2556
* 2 13C2 PFOA	415.00 > 370.00	4.992	4.996	-0.004		3317293	5.00		4716
3 MFS_N2	461.00 > 367.00	5.236	5.239	-0.003	1.194	3848185	10.6	110	21415
4 MFS_M3	577.00 > 483.00	5.844	5.849	-0.005	1.333	2924780	10.6	107	3270
5 MFS_N3	627.00 > 533.00	6.031	6.036	-0.005	1.375	3431578	10.7	107	5275
6 MFS_M4	743.00 > 649.00	6.436	6.439	-0.003	1.467	1527454	10.8	110	5013
7 MFS_N4	793.00 > 699.00	6.566	6.565	0.001	1.497	1648528	10.3	103	6095
8 MFS_N5	959.00 > 865.00	6.946	6.944	0.002	1.584	1789253	10.7	106	10413

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d

Injection Date: 05-Aug-2022 09:43:40

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

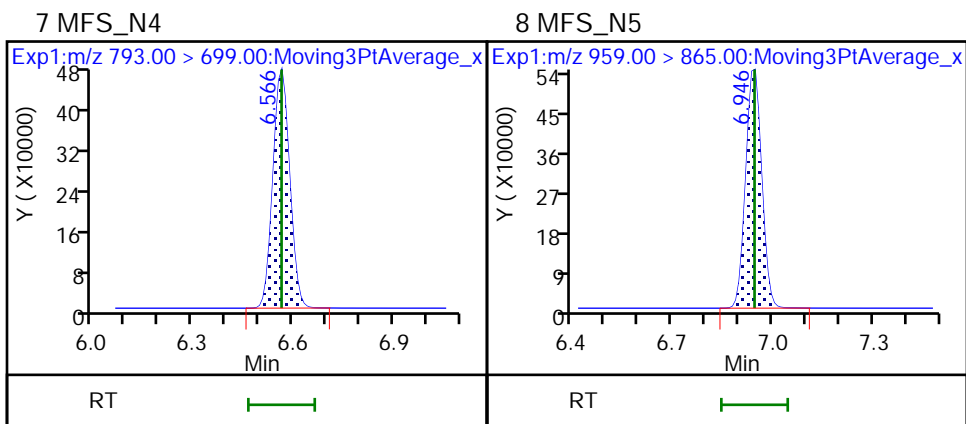
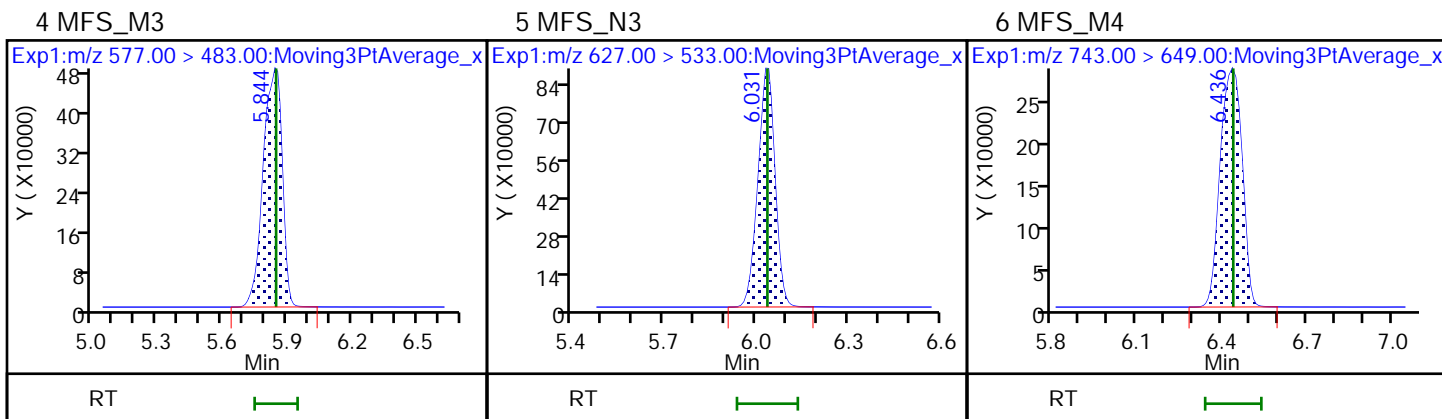
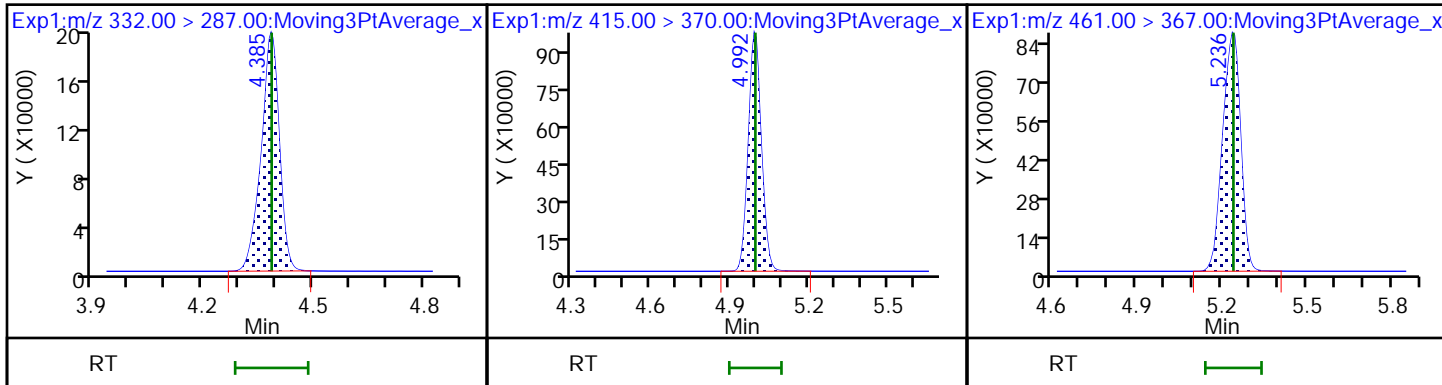
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 05-Aug-2022 09:56:17 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:53

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.387	0.001	0.878	620002	4.93	98.7	2415	
* 2 13C2 PFOA									
415.00 > 370.00	4.997	4.996	0.001		3111884	5.00		4706	
3 MFS_N2									
461.00 > 367.00	5.238	5.239	-0.001	1.194	8499793	25.8	107	25356	
4 MFS_M3									
577.00 > 483.00	5.848	5.849	-0.001	1.333	6548749	26.0	106	3823	
5 MFS_N3									
627.00 > 533.00	6.035	6.036	-0.001	1.375	7657320	26.3	105	5918	
6 MFS_M4									
743.00 > 649.00	6.442	6.439	0.003	1.468	3392053	26.3	107	5897	
7 MFS_N4									
793.00 > 699.00	6.564	6.565	-0.001	1.496	3483893	23.9	96.1	6490	
8 MFS_N5									
959.00 > 865.00	6.947	6.944	0.003	1.583	3703732	24.3	96.2	10962	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d

Injection Date: 05-Aug-2022 09:56:17

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

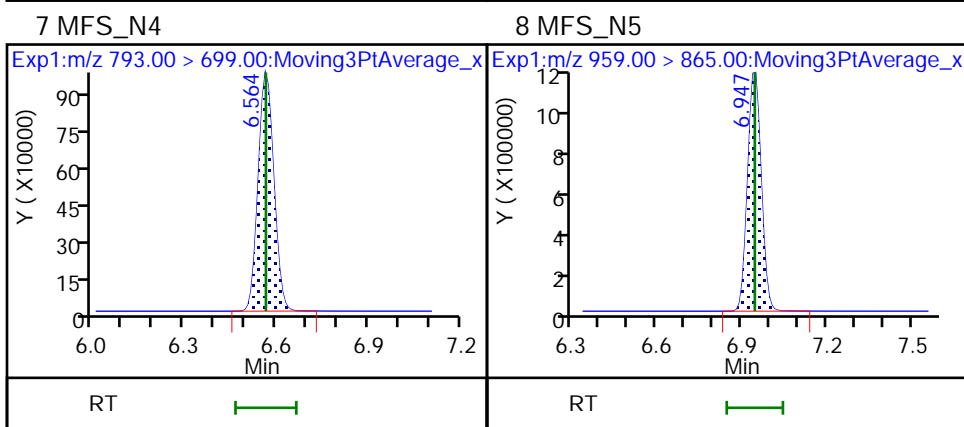
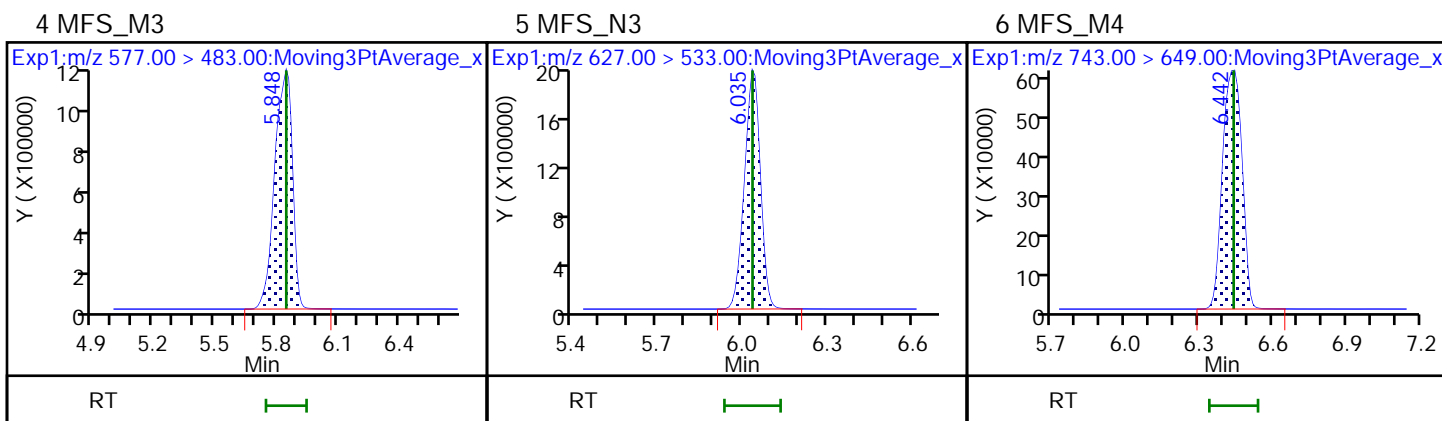
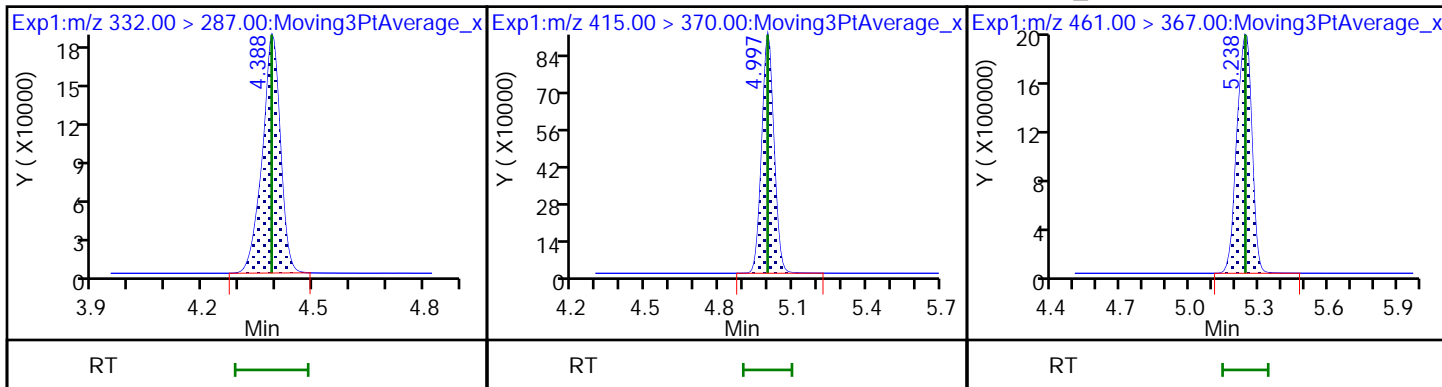
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 05-Aug-2022 10:08:54 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.387	0.002	0.878	704345	5.21	104	2940
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.996	0.002		3345907	5.00		5056
3 MFS_N2	461.00 > 367.00	5.242	5.239	0.003	1.194	16896802	45.1	93.7	30163
4 MFS_M3	577.00 > 483.00	5.854	5.849	0.005	1.334	13354811	46.8	95.0	4061
5 MFS_N3	627.00 > 533.00	6.039	6.036	0.003	1.376	15833576	47.9	95.7	8974
6 MFS_M4	743.00 > 649.00	6.437	6.439	-0.002	1.467	6755284	46.1	93.9	5470
7 MFS_N4	793.00 > 699.00	6.567	6.565	0.002	1.496	6411636	38.8	78.0	9007
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.582	6790396	39.2	77.6	10490

QC Flag Legend

Processing Flags

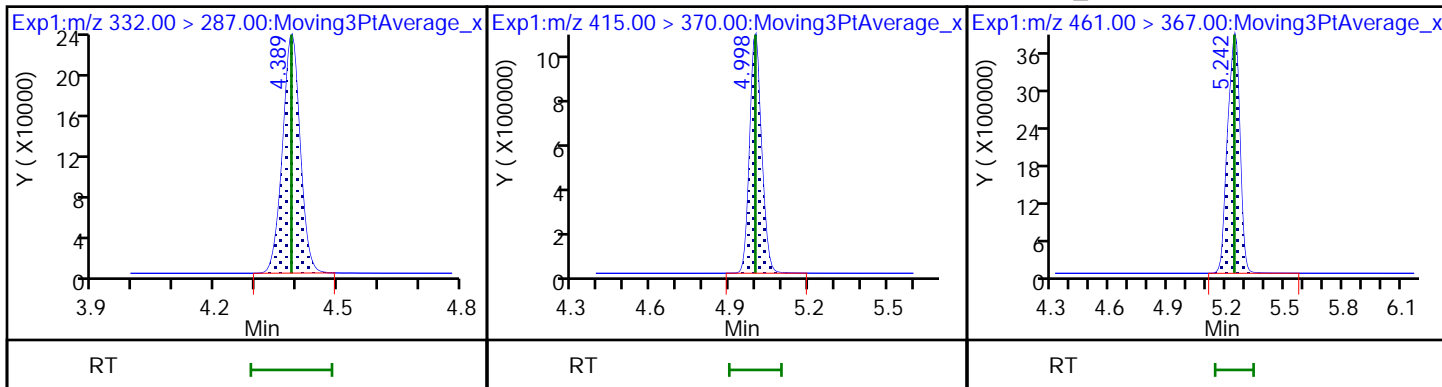
Reagents:

PFC_STD_MFS7_00008 Amount Added: 200.00 Units: uL

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

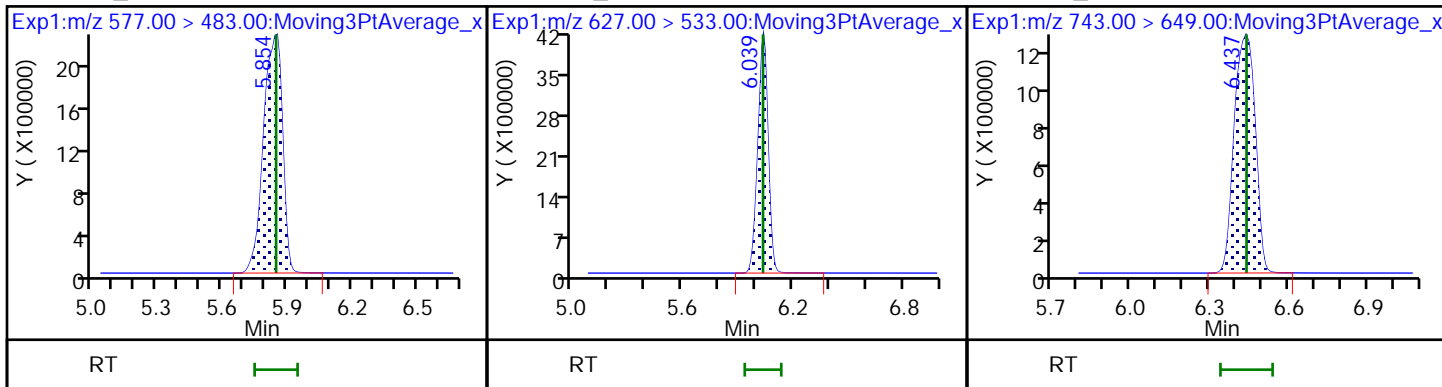
3 MFS_N2



4 MFS_M3

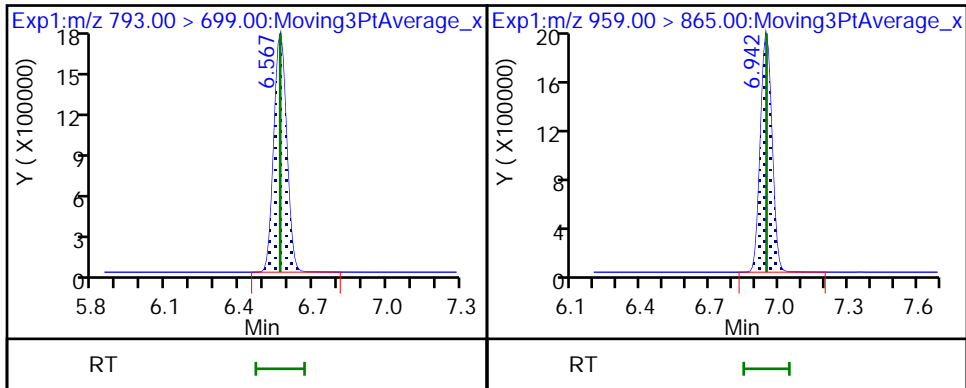
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Calibration

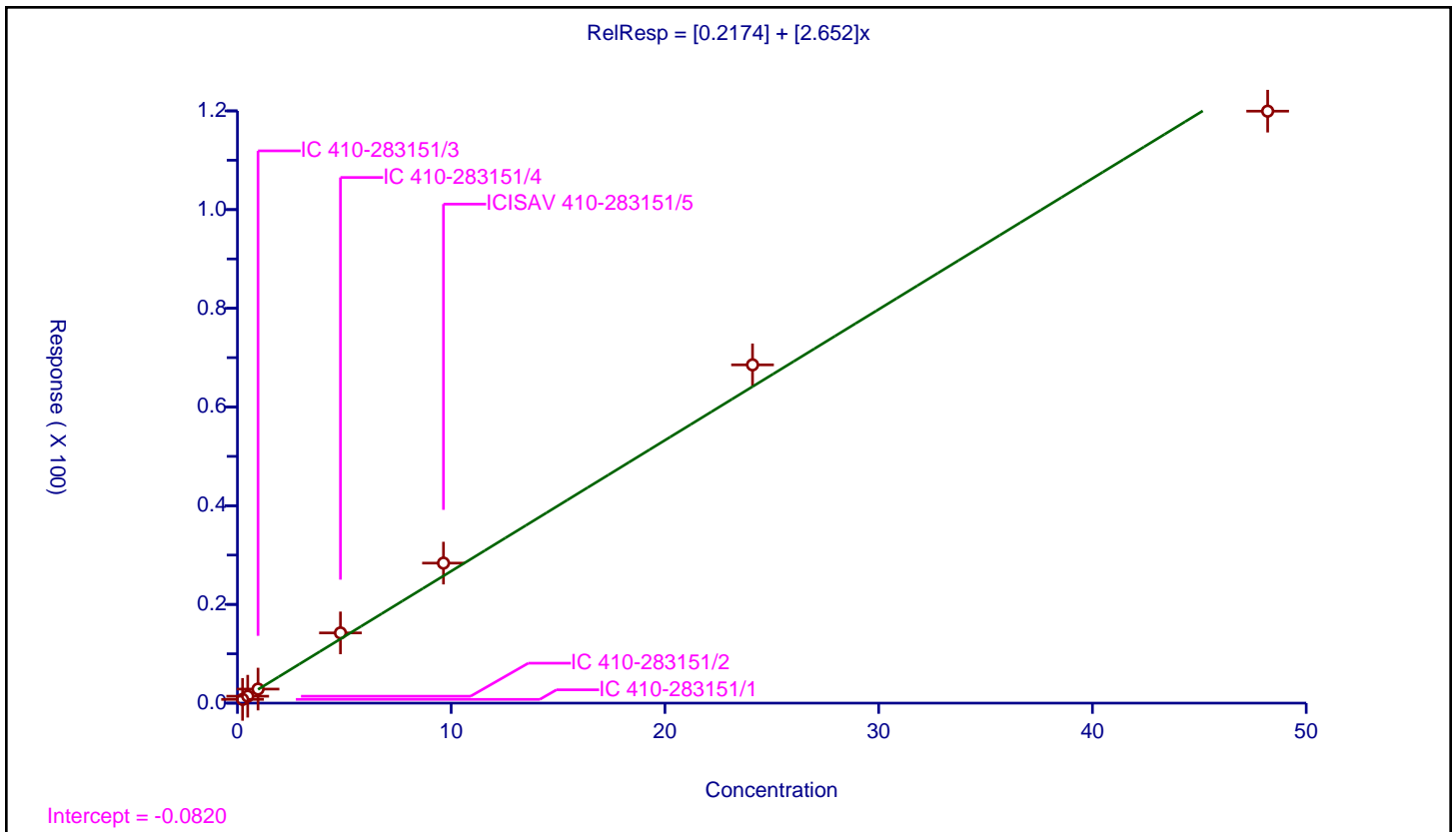
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2174
Slope:	2.652

Error Coefficients	
Standard Error:	8670000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.240983	0.756999	5.0	630232.0	3.141298	Y
2	IC 410-283151/2	0.481966	1.39811	5.0	688476.0	2.900849	Y
3	IC 410-283151/3	0.963932	2.849074	5.0	664135.0	2.955681	Y
4	IC 410-283151/4	4.819658	14.22678	5.0	625747.0	2.951824	Y
5	ICISAV 410-283151/5	9.639316	28.370033	5.0	678213.0	2.943158	Y
6	IC 410-283151/6	24.098289	68.546497	5.0	620002.0	2.844455	Y
7	IC 410-283151/7	48.196578	119.946915	5.0	704345.0	2.488702	Y



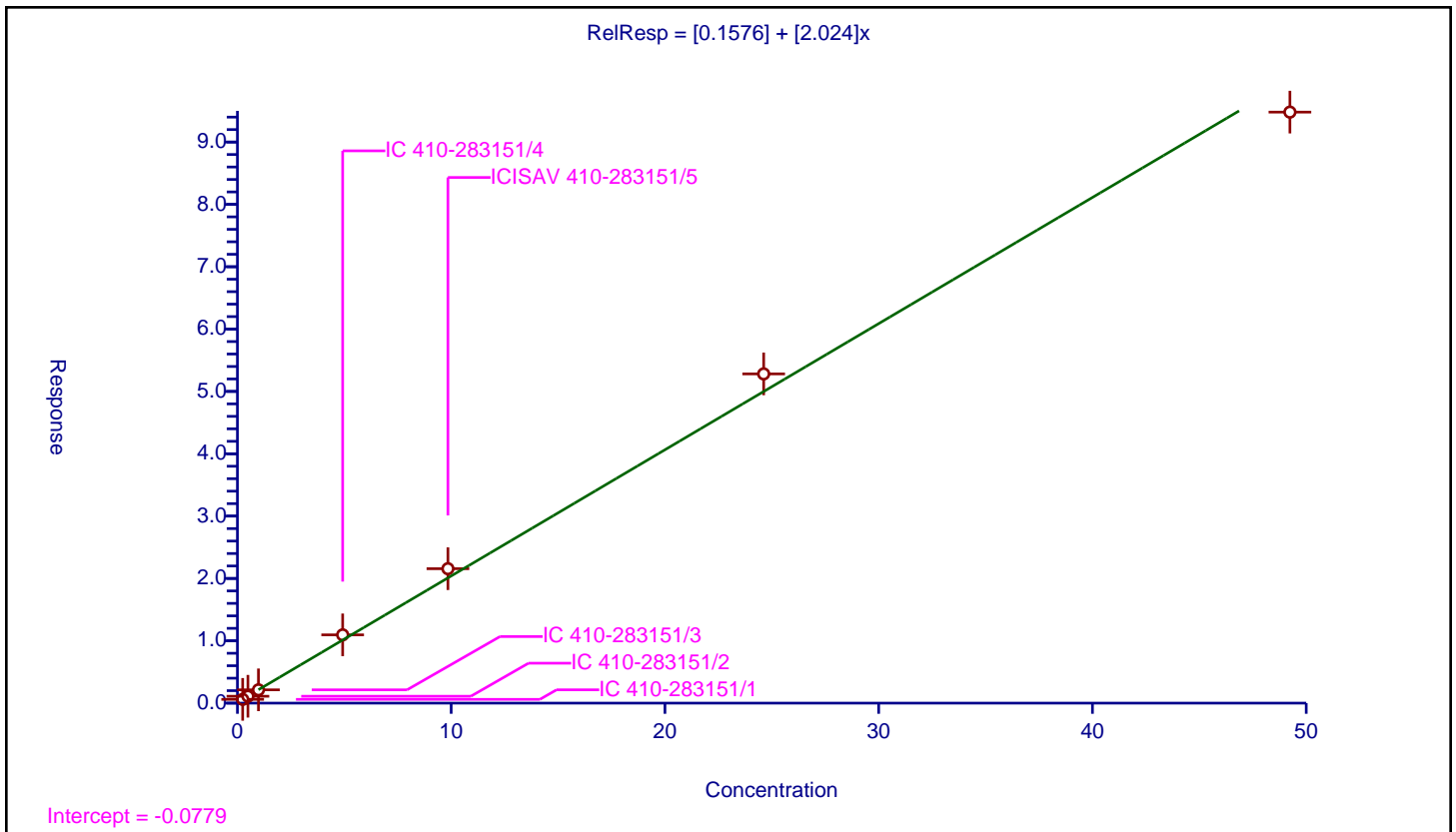
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1576
Slope:	2.024

Error Coefficients	
Standard Error:	6810000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.246191	0.603333	5.0	630232.0	2.450668	Y
2	IC 410-283151/2	0.492383	1.104897	5.0	688476.0	2.243979	Y
3	IC 410-283151/3	0.984766	2.133279	5.0	664135.0	2.166281	Y
4	IC 410-283151/4	4.923828	10.951207	5.0	625747.0	2.224125	Y
5	ICISAV 410-283151/5	9.847656	21.5624	5.0	678213.0	2.189597	Y
6	IC 410-283151/6	24.619141	52.812322	5.0	620002.0	2.145173	Y
7	IC 410-283151/7	49.238282	94.803051	5.0	704345.0	1.925393	Y



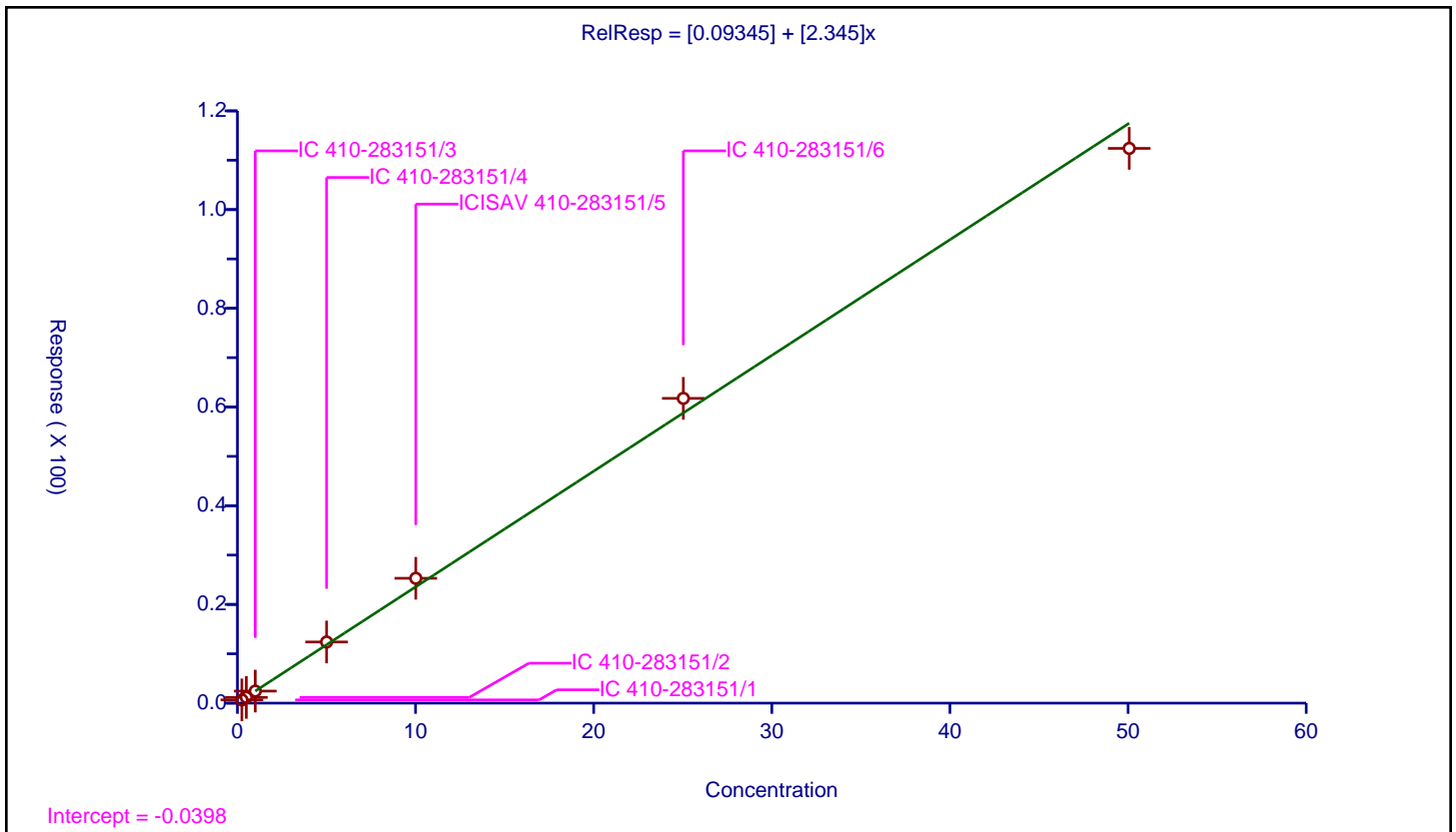
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.09345
Slope:	2.345

Error Coefficients	
Standard Error:	8050000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.250322	0.656718	5.0	630232.0	2.623493	Y
2	IC 410-283151/2	0.500644	1.164303	5.0	688476.0	2.32561	Y
3	IC 410-283151/3	1.001289	2.444247	5.0	664135.0	2.441101	Y
4	IC 410-283151/4	5.006444	12.388417	5.0	625747.0	2.474494	Y
5	ICISAV 410-283151/5	10.012888	25.298675	5.0	678213.0	2.526611	Y
6	IC 410-283151/6	25.03222	61.752381	5.0	620002.0	2.466916	Y
7	IC 410-283151/7	50.064439	112.399293	5.0	704345.0	2.245092	Y



Calibration

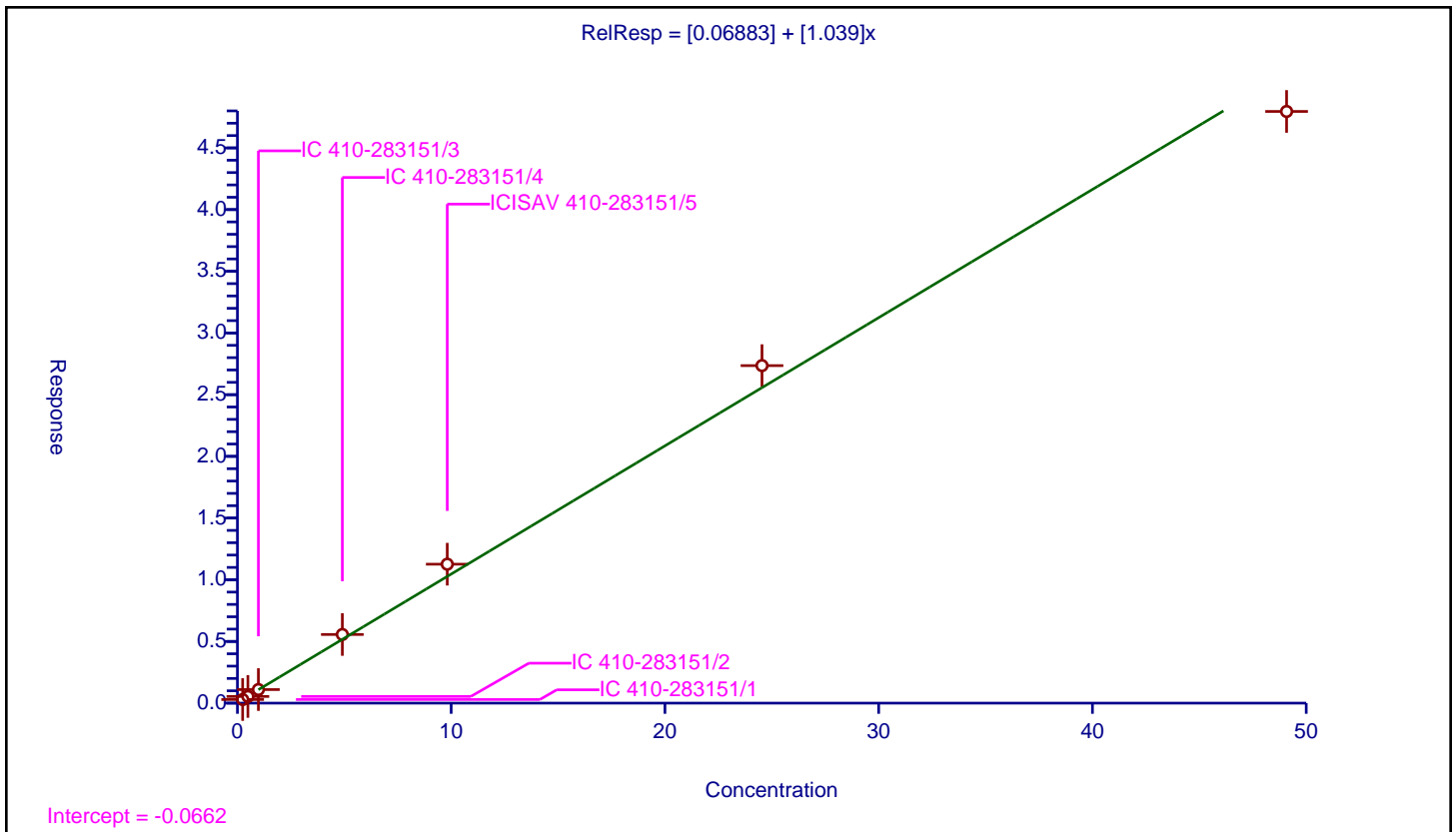
/ MFS_M4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06883
Slope:	1.039

Error Coefficients	
Standard Error:	3460000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.245407	0.293487	5.0	630232.0	1.195919	Y
2	IC 410-283151/2	0.490814	0.540317	5.0	688476.0	1.100857	Y
3	IC 410-283151/3	0.981629	1.10001	5.0	664135.0	1.120597	Y
4	IC 410-283151/4	4.908144	5.563455	5.0	625747.0	1.133515	Y
5	ICISAV 410-283151/5	9.816288	11.260872	5.0	678213.0	1.147162	Y
6	IC 410-283151/6	24.540719	27.355178	5.0	620002.0	1.114685	Y
7	IC 410-283151/7	49.081438	47.954369	5.0	704345.0	0.977037	Y



Calibration

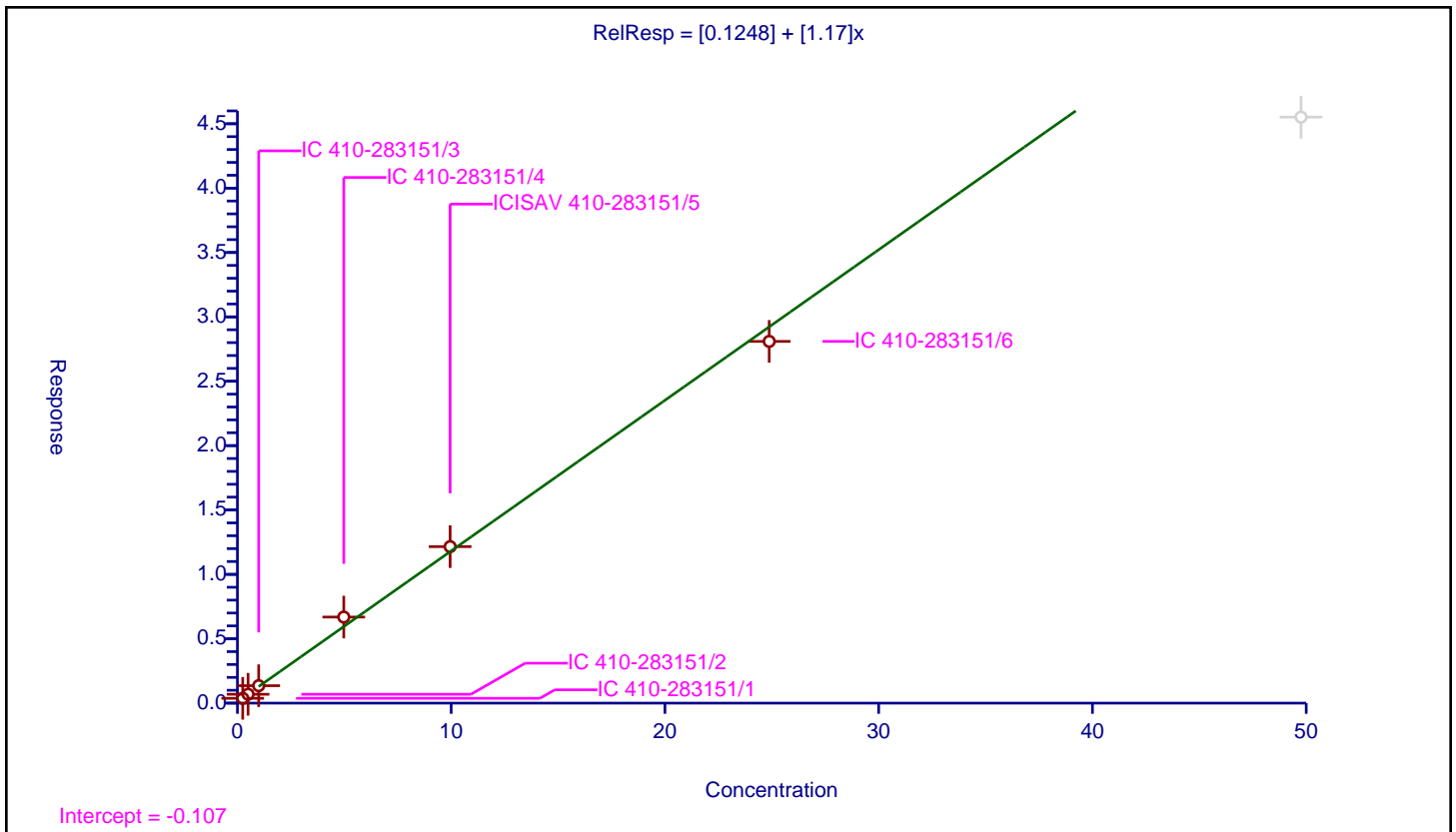
/ MFS_N4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1248
Slope:	1.17

Error Coefficients	
Standard Error:	1970000
Relative Standard Error:	10.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.248788	0.373839	5.0	630232.0	1.502639	Y
2	IC 410-283151/2	0.497576	0.68733	5.0	688476.0	1.381356	Y
3	IC 410-283151/3	0.995152	1.354574	5.0	664135.0	1.361173	Y
4	IC 410-283151/4	4.975759	6.685561	5.0	625747.0	1.343626	Y
5	ICISAV 410-283151/5	9.951518	12.153468	5.0	678213.0	1.221268	Y
6	IC 410-283151/6	24.878795	28.095821	5.0	620002.0	1.129308	Y
7	IC 410-283151/7	49.75759	45.514883	5.0	704345.0	0.914732	N



Calibration

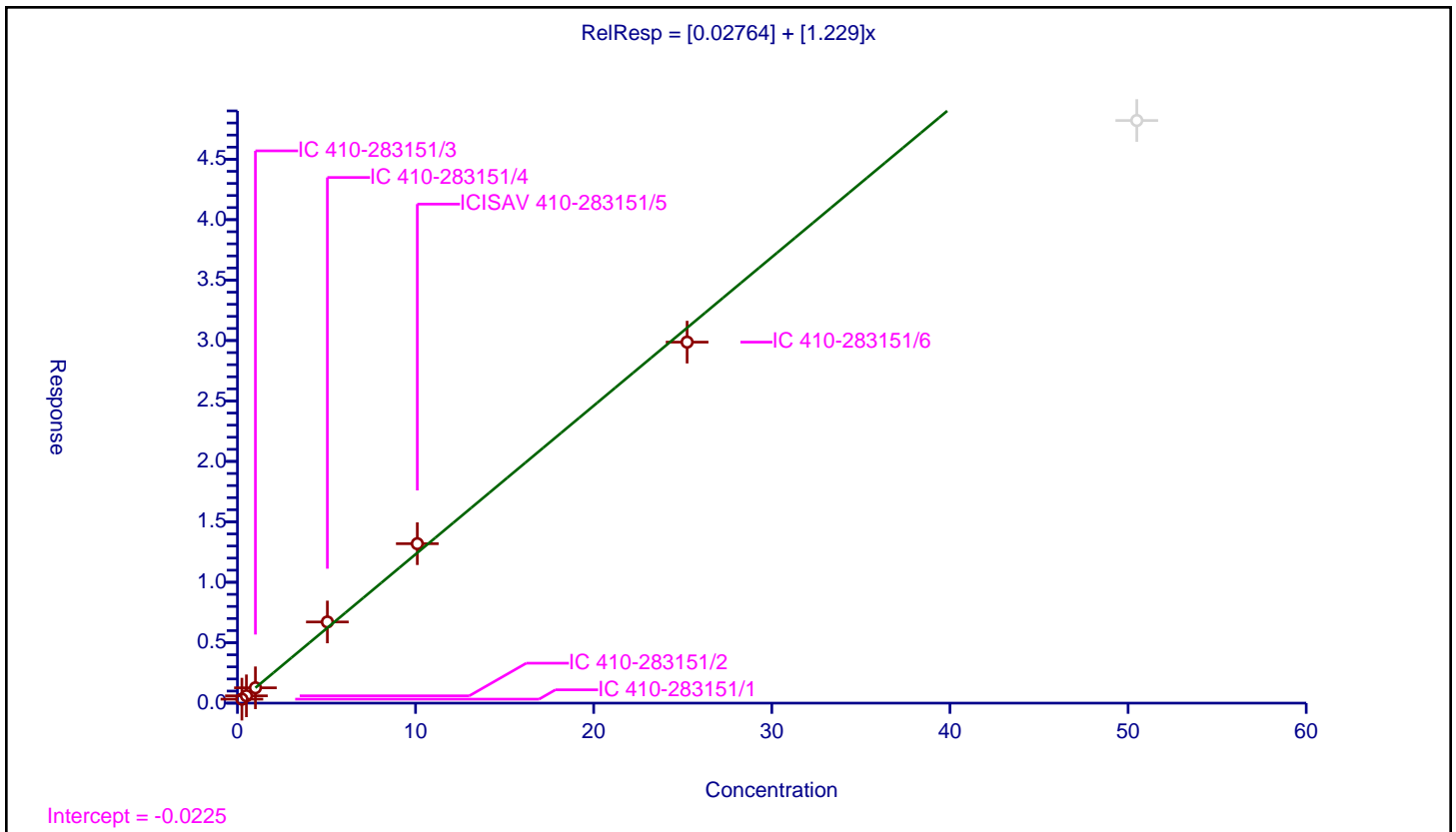
/ MFS_N5

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.02764
Slope:	1.229

Error Coefficients	
Standard Error:	2100000
Relative Standard Error:	6.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.252449	0.3288	5.0	630232.0	1.302441	Y
2	IC 410-283151/2	0.504897	0.603848	5.0	688476.0	1.195982	Y
3	IC 410-283151/3	1.009795	1.268876	5.0	664135.0	1.256569	Y
4	IC 410-283151/4	5.048973	6.715917	5.0	625747.0	1.330155	Y
5	ICISAV 410-283151/5	10.097945	13.190937	5.0	678213.0	1.306299	Y
6	IC 410-283151/6	25.244863	29.86871	5.0	620002.0	1.18316	Y
7	IC 410-283151/7	50.489726	48.203622	5.0	704345.0	0.954721	N



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: ICV 410-279067/9 Calibration Date: 07/25/2022 11:52
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL25MFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.771		0.966	0.964	0.2	30.0
MFS_M3	L1ID		2.104		0.952	0.985	-3.3	30.0
MFS_N3	L1ID		2.301		0.956	1.00	-4.5	30.0
MFS_M4	L1ID		0.9617		0.933	0.982	-4.9	30.0
MFS_N4	Q2ID		1.162		0.972	0.995	-2.3	30.0
MFS_N5	Q2ID		1.029		0.949	1.01	-6.1	30.0
13C3 HFPO-DA	Ave	0.2103	0.2106		5.01	5.00	0.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-09.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 25-Jul-2022 11:52:22 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:54:48 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:51

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.361	4.370	-0.009	0.878	815630	5.01	100	2210
* 2 13C2 PFOA	415.00 > 370.00	4.968	4.975	-0.007		3873459	5.00		3980
3 MFS_N2	461.00 > 367.00	5.202	5.209	-0.007	1.193	435715	0.9662		1659
4 MFS_M3	577.00 > 483.00	5.811	5.811	0.0	1.332	338050	0.9518		968
5 MFS_N3	627.00 > 533.00	5.996	6.006	-0.010	1.375	375891	0.9560		1522
6 MFS_M4	743.00 > 649.00	6.391	6.400	-0.009	1.466	153999	0.9332		1497
7 MFS_N4	793.00 > 699.00	6.529	6.538	-0.009	1.497	188590	0.9723		2108
8 MFS_N5	959.00 > 865.00	6.912	6.912	0.0	1.585	169575	0.9487		2816

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-09.d

Injection Date: 25-Jul-2022 11:52:22

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

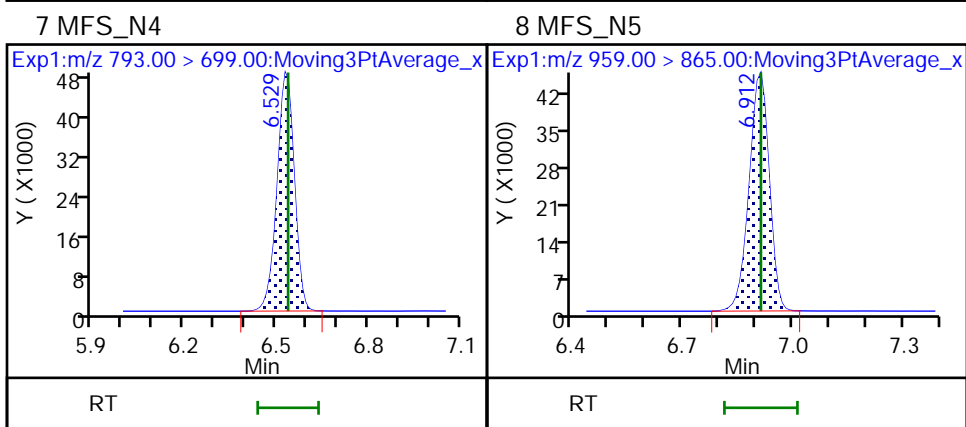
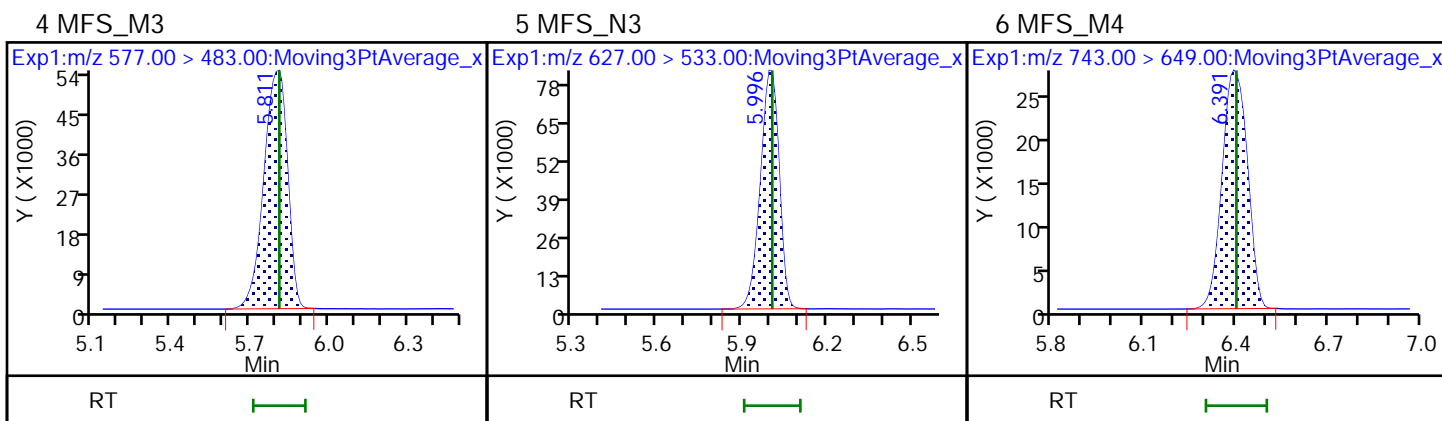
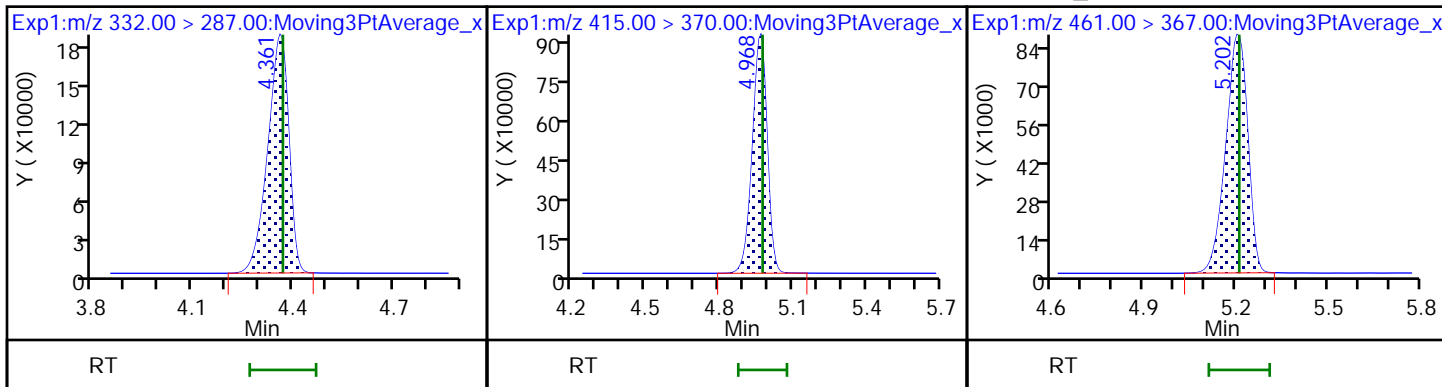
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-279218/12 Calibration Date: 07/25/2022 18:26
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL25MFS-22.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.901		1.02	0.964	5.3	30.0
MFS_M3	L1ID		2.200		0.998	0.985	1.4	30.0
MFS_N3	L1ID		2.409		1.00	1.00	0.1	30.0
MFS_M4	L1ID		1.027		0.999	0.982	1.8	30.0
MFS_N4	Q2ID		1.212		1.02	0.995	2.0	30.0
MFS_N5	Q2ID		1.077		0.992	1.01	-1.8	30.0
13C3 HFPO-DA	Ave	0.2103	0.2050		4.87	5.00	-2.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-22.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 25-Jul-2022 18:26:48 ALS Bottle#: 4 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:58 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 08:18:48

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.359	4.369	-0.010	0.878	741997	4.87	97.5	2276
* 2 13C2 PFOA	415.00 > 370.00	4.963	4.975	-0.012		3619628	5.00		4047
3 MFS_N2	461.00 > 367.00	5.200	5.211	-0.011	1.193	415014	1.02	105	3987
4 MFS_M3	577.00 > 483.00	5.798	5.812	-0.014	1.330	321576	1.00	101	1625
5 MFS_N3	627.00 > 533.00	5.994	6.009	-0.015	1.375	357893	1.00	100	2162
6 MFS_M4	743.00 > 649.00	6.397	6.400	-0.003	1.468	149622	1.00	102	2379
7 MFS_N4	793.00 > 699.00	6.533	6.538	-0.005	1.499	178989	1.02	102	2579
8 MFS_N5	959.00 > 865.00	6.907	6.915	-0.008	1.585	161403	0.99	98.2	3635

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-22.d

Injection Date: 25-Jul-2022 18:26:48

Instrument ID: 30733

Lims ID: CCV_2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

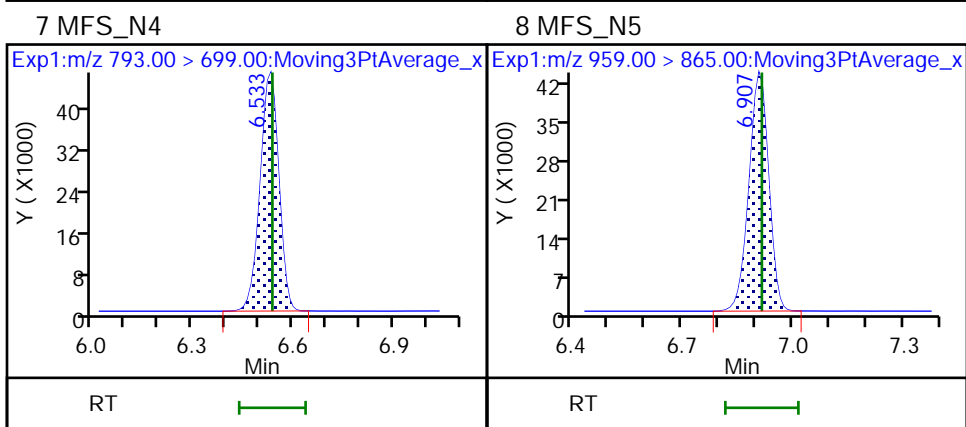
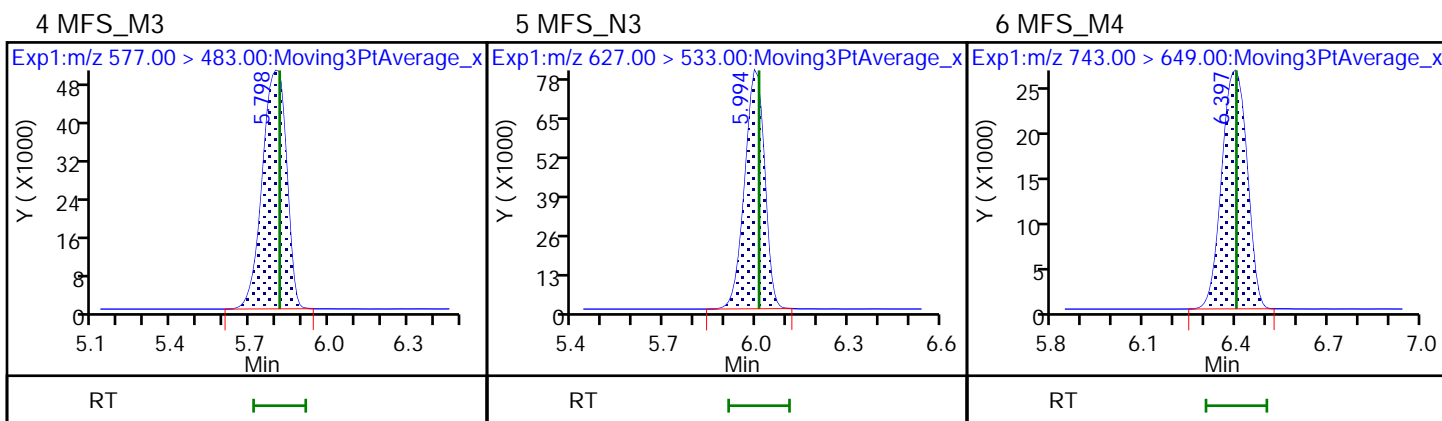
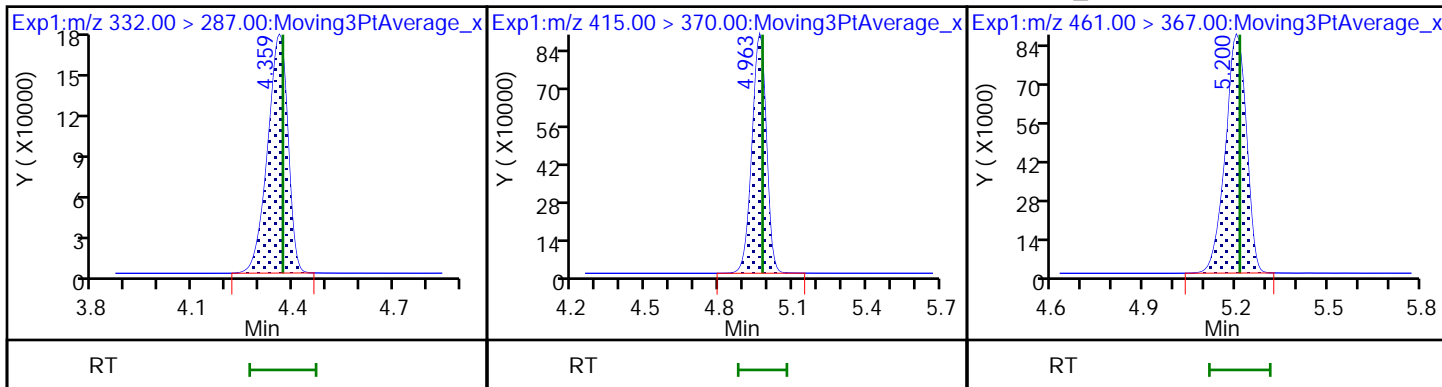
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-279218/25 Calibration Date: 07/25/2022 21:10
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL25MFS-35.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.827		10.6	9.64	9.7	30.0
MFS_M3	L1ID		2.251		10.9	9.85	10.2	30.0
MFS_N3	L1ID		2.560		11.1	10.0	10.7	30.0
MFS_M4	L1ID		1.075		10.9	9.82	10.6	30.0
MFS_N4	Q2ID		1.183		10.6	9.95	6.0	30.0
MFS_N5	Q2ID		1.197		11.2	10.1	11.3	30.0
13C3 HFPO-DA	Ave	0.2103	0.2059		4.90	5.00	-2.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-35.d
 Lims ID: CCV 3_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 25-Jul-2022 21:10:28 ALS Bottle#: 6 Worklist Smp#: 25
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL5
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 08:18:53

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.365	4.369	-0.004	0.879	736130	4.90	97.9	2316
* 2 13C2 PFOA	415.00 > 370.00	4.968	4.975	-0.007		3575007	5.00		3976
3 MFS_N2	461.00 > 367.00	5.209	5.211	-0.002	1.193	4012020	10.6	110	17140
4 MFS_M3	577.00 > 483.00	5.811	5.812	-0.001	1.331	3263616	10.9	110	3205
5 MFS_N3	627.00 > 533.00	6.006	6.009	-0.003	1.376	3773452	11.1	111	4651
6 MFS_M4	743.00 > 649.00	6.400	6.400	0.0	1.466	1553422	10.9	111	3656
7 MFS_N4	793.00 > 699.00	6.535	6.538	-0.003	1.497	1733207	10.6	106	4822
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.585	1778989	11.2	111	8388

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-35.d

Injection Date: 25-Jul-2022 21:10:28

Instrument ID: 30733

Lims ID: CCV 3_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 25

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

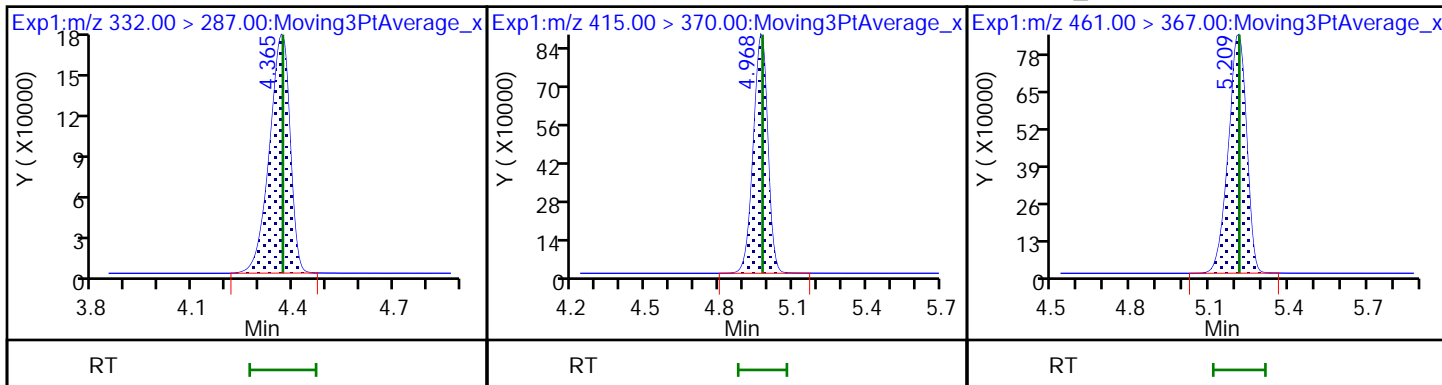
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

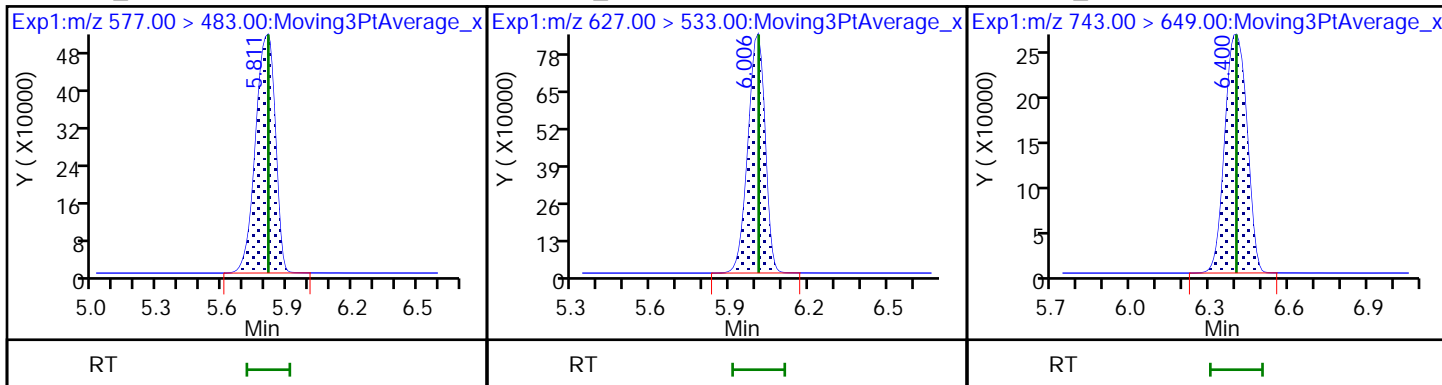
3 MFS_N2



4 MFS_M3

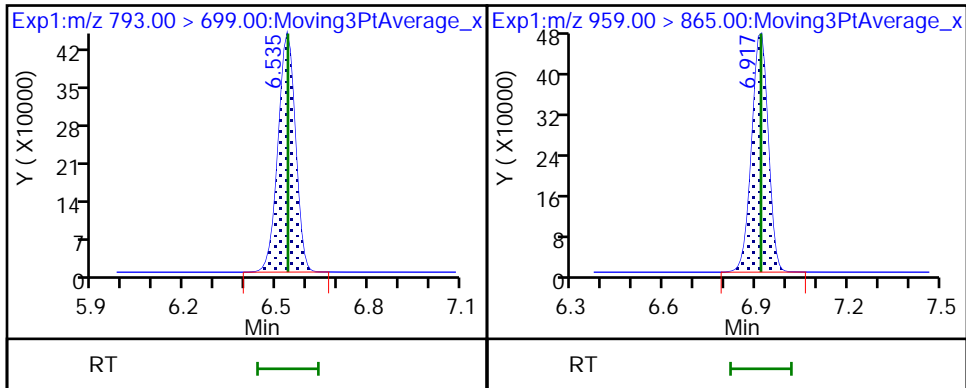
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-279218/36 Calibration Date: 07/25/2022 23:28
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL25MFS-46.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.052		0.210	0.241	-13.0	50.0
MFS_M3	L1ID		2.558		0.241	0.246	-2.1	50.0
MFS_N3	L1ID		2.634		0.242	0.250	-3.3	50.0
MFS_M4	L1ID		1.098		0.236	0.245	-3.8	50.0
MFS_N4	Q2ID		1.348		0.267	0.249	7.4	50.0
MFS_N5	Q2ID		1.190		0.283	0.252	12.2	50.0
13C3 HFPO-DA	Ave	0.2103	0.2079		4.94	5.00	-1.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-46.d
 Lims ID: CCVL 4_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 25-Jul-2022 23:28:57 ALS Bottle#: 2 Worklist Smp#: 36
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 4_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-036
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:13:06 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 08:19:02

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.364	4.369	-0.005	0.878	740013	4.94	98.9	2063
* 2 13C2 PFOA	415.00 > 370.00	4.971	4.975	-0.004		3558674	5.00		3232
3 MFS_N2	461.00 > 367.00	5.208	5.211	-0.003	1.193	108851	0.2096	87.0	684
4 MFS_M3	577.00 > 483.00	5.799	5.812	-0.013	1.329	93195	0.2410	97.9	494
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.376	97577	0.2420	96.7	898
6 MFS_M4	743.00 > 649.00	6.399	6.400	-0.001	1.466	39887	0.2361	96.2	706
7 MFS_N4	793.00 > 699.00	6.534	6.538	-0.004	1.497	49643	0.2671	107	926
8 MFS_N5	959.00 > 865.00	6.908	6.915	-0.007	1.583	44476	0.2833	112	1192

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-46.d

Injection Date: 25-Jul-2022 23:28:57

Instrument ID: 30733

Lims ID: CCVL 4_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 36

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

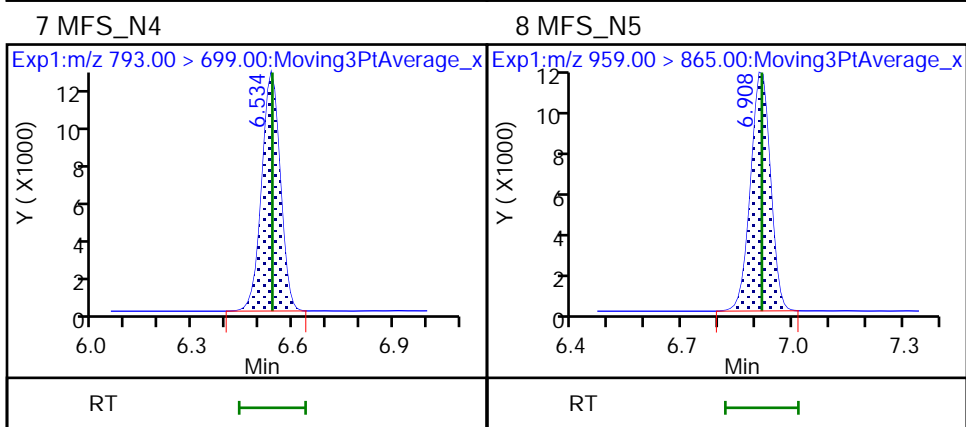
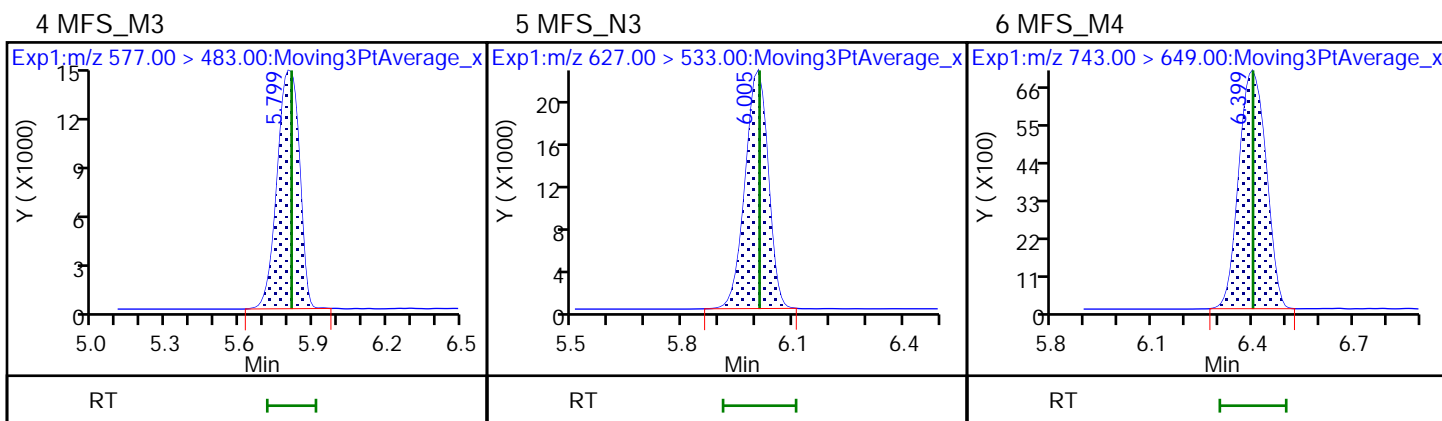
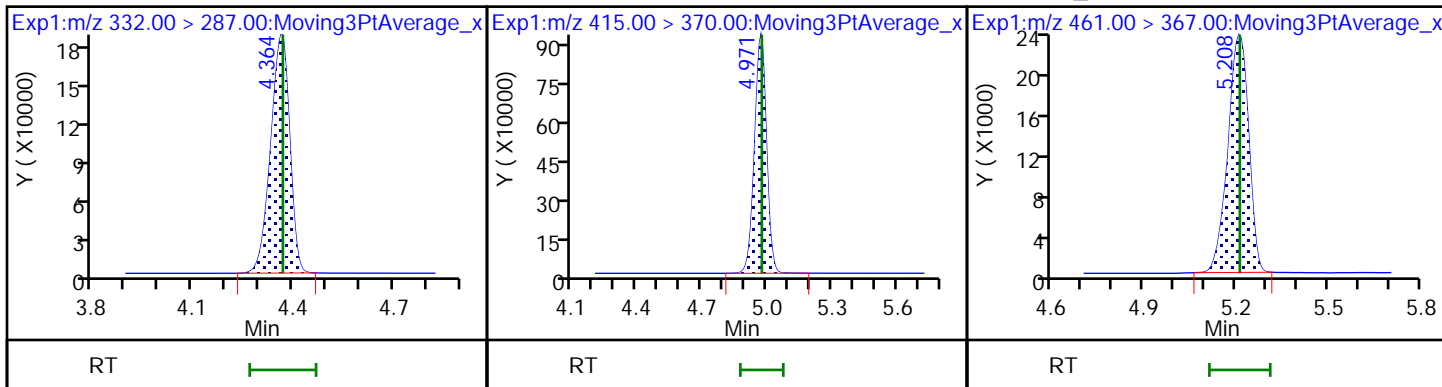
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-280074/1 Calibration Date: 07/28/2022 03:29
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL27MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.845		0.190	0.241	-21.1	50.0
MFS_M3	L1ID		2.372		0.219	0.246	-11.2	50.0
MFS_N3	L1ID		2.491		0.226	0.250	-9.5	50.0
MFS_M4	L1ID		1.017		0.216	0.245	-12.1	50.0
MFS_N4	Q2ID		1.183		0.232	0.249	-6.8	50.0
MFS_N5	Q2ID		1.083		0.259	0.252	2.6	50.0
13C3 HFPO-DA	Ave	0.2103	0.2251		5.35	5.00	7.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 28-Jul-2022 03:29:45 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 07:56:38 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:02:54

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.368	4.369	-0.001	0.877	805557	5.35	107	1573
* 2 13C2 PFOA	415.00 > 370.00	4.978	4.975	0.003		3577919	5.00		2203
3 MFS_N2	461.00 > 367.00	5.215	5.211	0.004	1.194	110448	0.1901	78.9	1344
4 MFS_M3	577.00 > 483.00	5.810	5.812	-0.002	1.330	94097	0.2185	88.8	661
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.375	100459	0.2264	90.5	1130
6 MFS_M4	743.00 > 649.00	6.398	6.400	-0.002	1.465	40229	0.2156	87.9	907
7 MFS_N4	793.00 > 699.00	6.543	6.538	0.005	1.498	47419	0.2320	93.2	812
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.584	44053	0.2589	103	1297

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-01.d

Injection Date: 28-Jul-2022 03:29:45

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

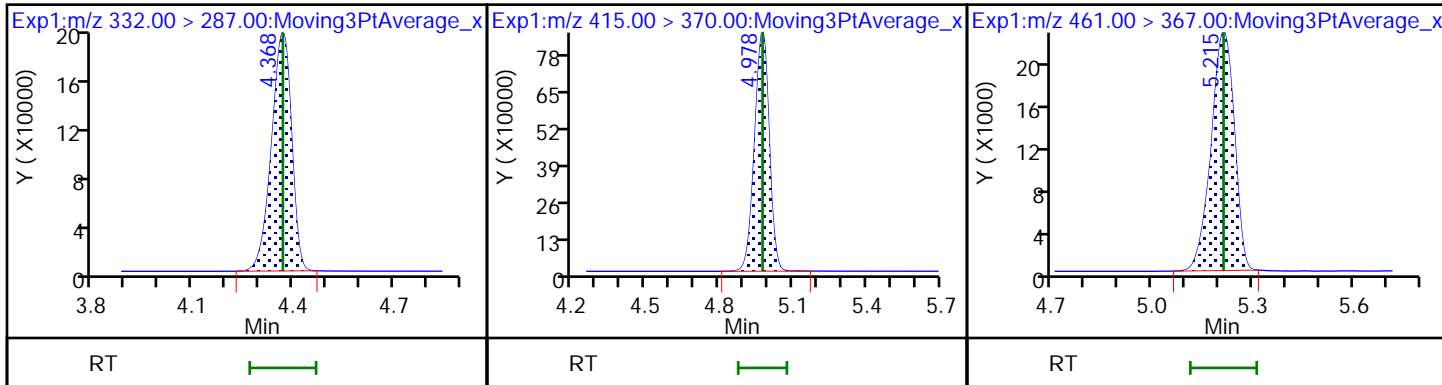
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

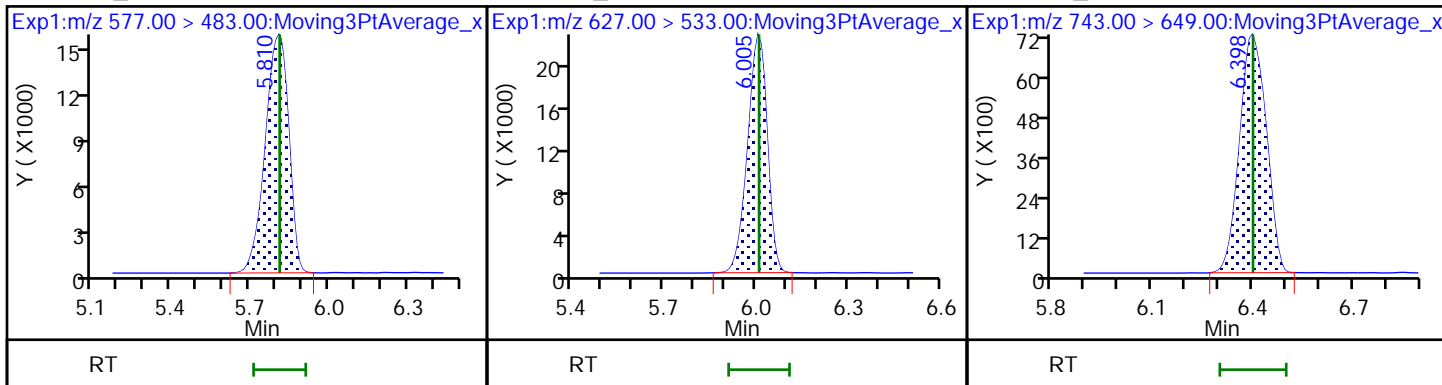
3 MFS_N2



4 MFS_M3

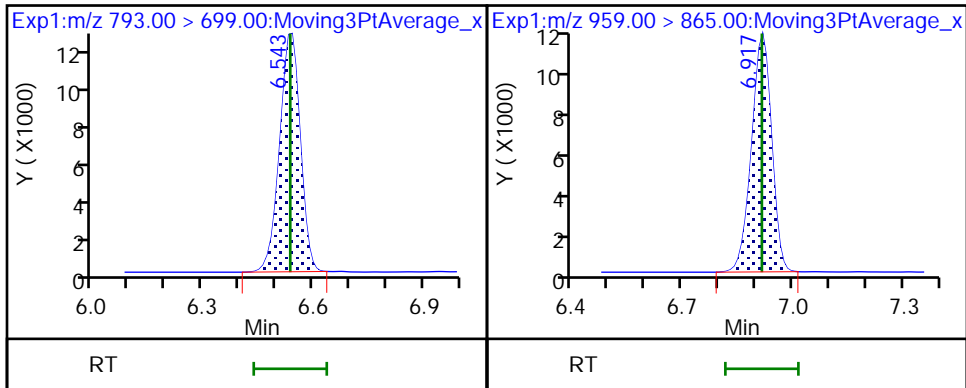
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280074/7 Calibration Date: 07/28/2022 04:46
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL27MFS-07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.724		0.949	0.964	-1.6	30.0
MFS_M3	L1ID		2.118		0.958	0.985	-2.7	30.0
MFS_N3	L1ID		2.372		0.987	1.00	-1.5	30.0
MFS_M4	L1ID		0.9654		0.937	0.982	-4.6	30.0
MFS_N4	Q2ID		1.115		0.932	0.995	-6.3	30.0
MFS_N5	Q2ID		1.007		0.928	1.01	-8.1	30.0
13C3 HFPO-DA	Ave	0.2103	0.2235		5.31	5.00	6.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-07.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Jul-2022 04:46:49 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 07:56:38 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:03:01

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.366	4.369	-0.003	0.878	820659	5.31	106	1923
* 2 13C2 PFOA	415.00 > 370.00	4.972	4.975	-0.003		3672030	5.00		2466
3 MFS_N2	461.00 > 367.00	5.208	5.211	-0.003	1.193	430997	0.9485	98.4	2909
4 MFS_M3	577.00 > 483.00	5.810	5.812	-0.002	1.331	342349	0.9585	97.3	1123
5 MFS_N3	627.00 > 533.00	6.006	6.009	-0.003	1.376	389783	0.9867	98.5	1679
6 MFS_M4	743.00 > 649.00	6.399	6.400	-0.001	1.466	155535	0.9369	95.4	2048
7 MFS_N4	793.00 > 699.00	6.535	6.538	-0.003	1.497	182162	0.9325	93.7	1927
8 MFS_N5	959.00 > 865.00	6.918	6.915	0.003	1.585	166824	0.9278	91.9	2881

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-07.d

Injection Date: 28-Jul-2022 04:46:49

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

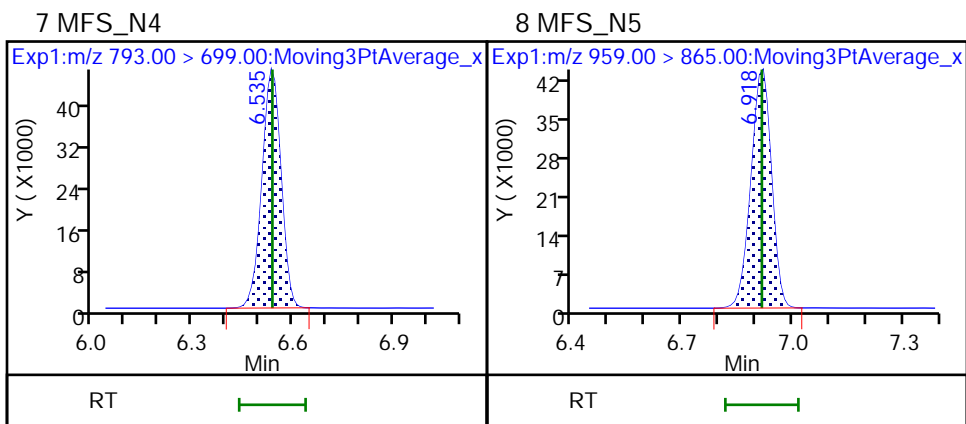
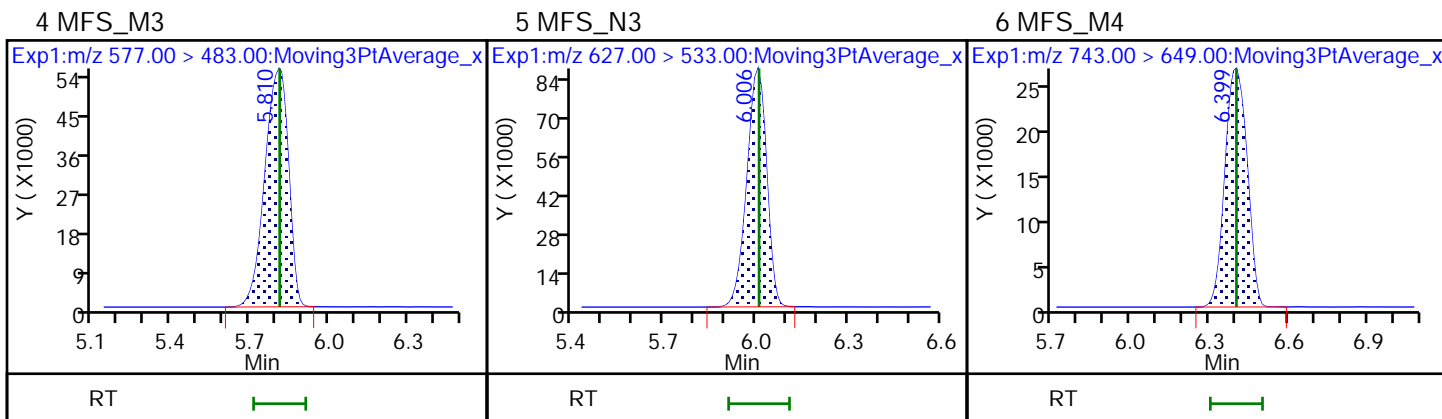
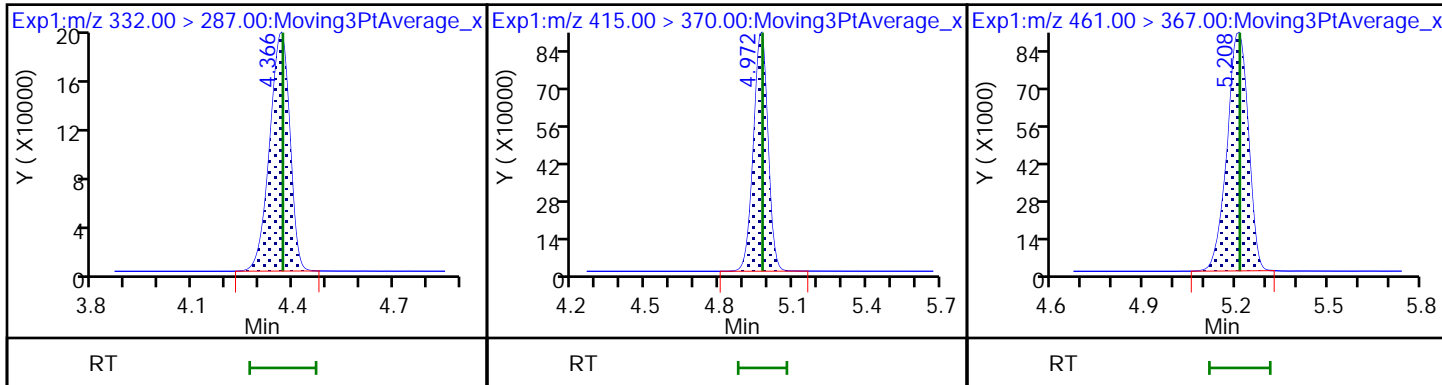
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280074/20 Calibration Date: 07/28/2022 07:30
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL27MFS-20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.634		9.85	9.64	2.1	30.0
MFS_M3	L1ID		2.028		9.77	9.85	-0.8	30.0
MFS_N3	L1ID		2.323		10.1	10.0	0.4	30.0
MFS_M4	L1ID		0.9550		9.65	9.82	-1.7	30.0
MFS_N4	Q2ID		1.030		9.12	9.95	-8.3	30.0
MFS_N5	Q2ID		1.053		9.85	10.1	-2.5	30.0
13C3 HFPO-DA	Ave	0.2103	0.2280		5.42	5.00	8.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-20.d
 Lims ID: CCV 3_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Jul-2022 07:30:36 ALS Bottle#: 6 Worklist Smp#: 20
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL5
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:47 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:41:39

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.362	4.369	-0.007	0.879	856034	5.42	108	1716
* 2 13C2 PFOA	415.00 > 370.00	4.963	4.975	-0.012		3753979	5.00		2549
3 MFS_N2	461.00 > 367.00	5.199	5.211	-0.012	1.192	4346546	9.85	102	16145
4 MFS_M3	577.00 > 483.00	5.806	5.812	-0.006	1.331	3418652	9.77	99.2	2362
5 MFS_N3	627.00 > 533.00	6.002	6.009	-0.007	1.376	3982989	10.1	100	3481
6 MFS_M4	743.00 > 649.00	6.393	6.400	-0.007	1.466	1604996	9.65	98.3	3357
7 MFS_N4	793.00 > 699.00	6.528	6.538	-0.010	1.497	1755346	9.12	91.7	4645
8 MFS_N5	959.00 > 865.00	6.907	6.915	-0.008	1.583	1820034	9.85	97.5	7921

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-20.d

Injection Date: 28-Jul-2022 07:30:36

Instrument ID: 30733

Lims ID: CCV_3_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 20

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

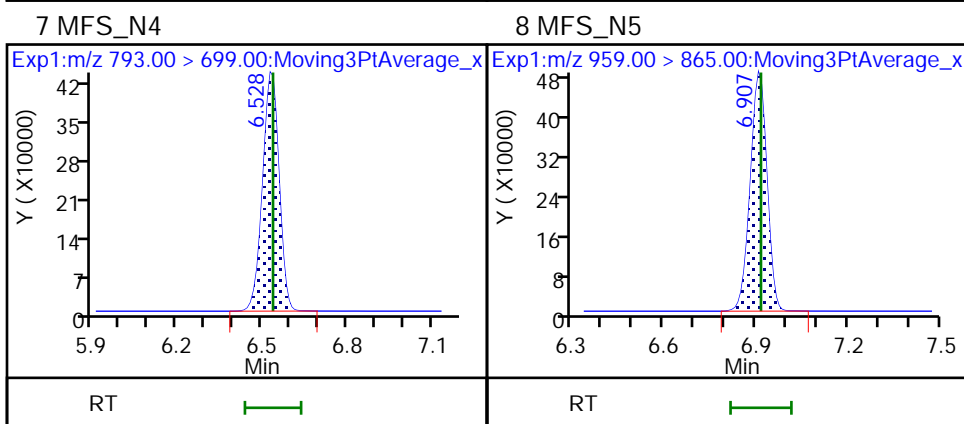
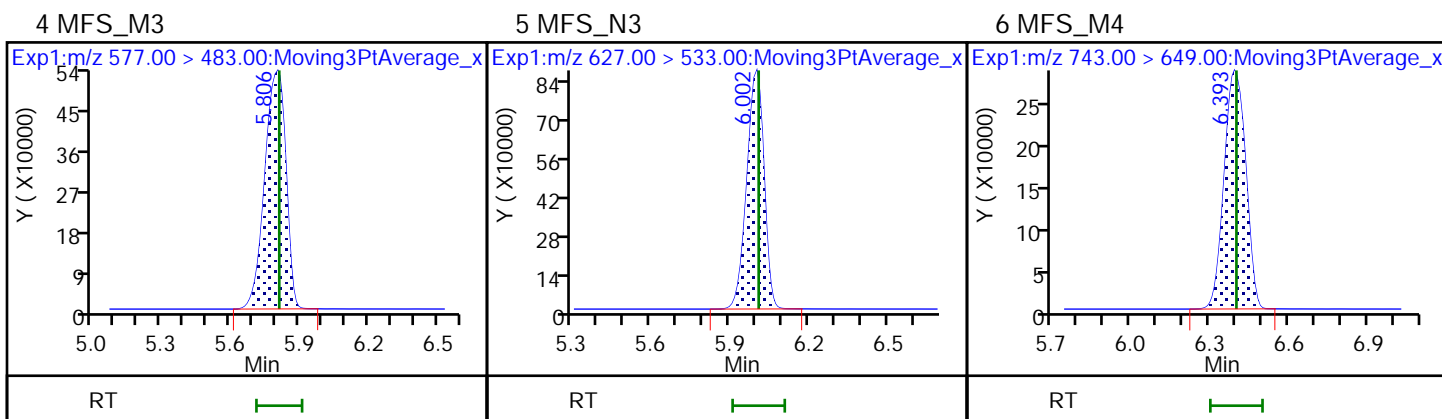
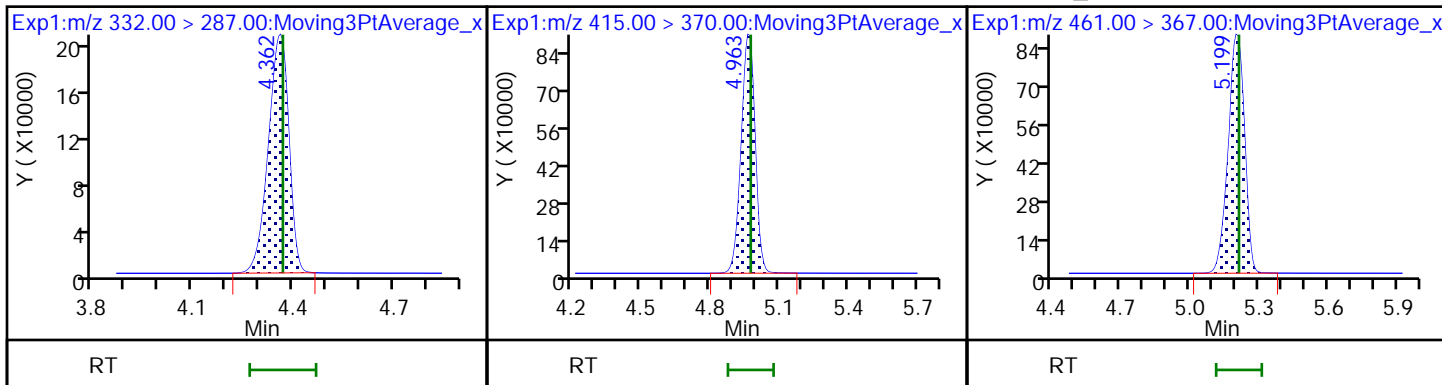
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-280074/27 Calibration Date: 07/28/2022 08:46
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL27MFS-26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.780		0.184	0.241	-23.7	50.0
MFS_M3	L1ID		2.384		0.220	0.246	-10.6	50.0
MFS_N3	L1ID		2.602		0.239	0.250	-4.7	50.0
MFS_M4	L1ID		1.100		0.237	0.245	-3.6	50.0
MFS_N4	Q2ID		1.302		0.257	0.249	3.5	50.0
MFS_N5	Q2ID		1.206		0.287	0.252	13.6	50.0
13C3 HFPO-DA	Ave	0.2103	0.2272		5.40	5.00	8.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-26.d
 Lims ID: CCVL 4_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 28-Jul-2022 08:46:15 ALS Bottle#: 2 Worklist Smp#: 27
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 4_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-027
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 09:15:02 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 09:14:28

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.365	4.369	-0.004	0.879	844819	5.40	108	1616
* 2 13C2 PFOA	415.00 > 370.00	4.969	4.975	-0.007		3718638	5.00		2438
3 MFS_N2	461.00 > 367.00	5.209	5.211	-0.002	1.193	113179	0.1839	76.3	607
4 MFS_M3	577.00 > 483.00	5.811	5.812	-0.001	1.331	99174	0.2200	89.4	412
5 MFS_N3	627.00 > 533.00	5.996	6.009	-0.013	1.374	110072	0.2386	95.3	633
6 MFS_M4	743.00 > 649.00	6.400	6.400	0.0	1.466	45606	0.2365	96.4	554
7 MFS_N4	793.00 > 699.00	6.536	6.538	-0.002	1.497	54747	0.2574	103	631
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.585	51433	0.2868	114	1033

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-26.d

Injection Date: 28-Jul-2022 08:46:15

Instrument ID: 30733

Lims ID: CCVL 4_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 27

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

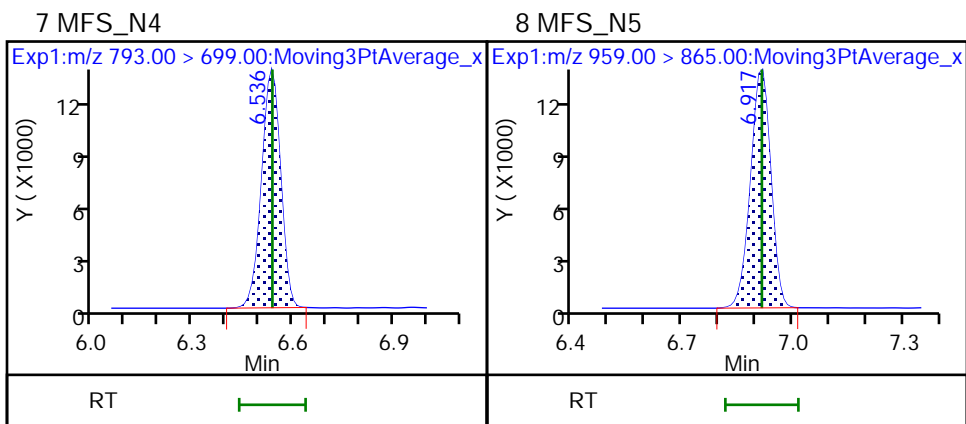
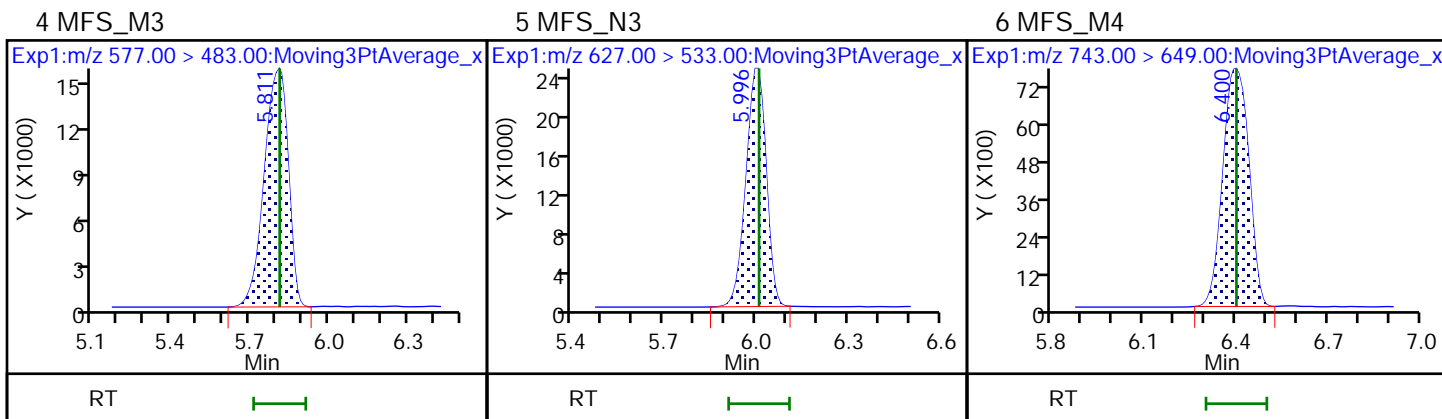
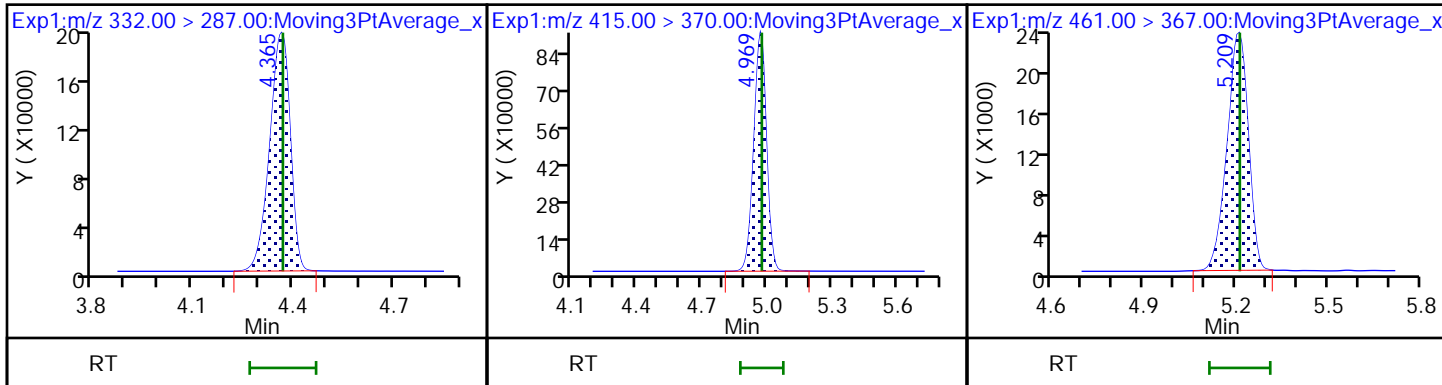
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-280443/1 Calibration Date: 07/28/2022 10:00
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL28MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.954		0.200	0.241	-16.9	50.0
MFS_M3	L1ID		2.484		0.232	0.246	-5.7	50.0
MFS_N3	L1ID		2.743		0.254	0.250	1.4	50.0
MFS_M4	L1ID		1.045		0.223	0.245	-9.3	50.0
MFS_N4	Q2ID		1.293		0.255	0.249	2.7	50.0
MFS_N5	Q2ID		1.159		0.276	0.252	9.4	50.0
13C3 HFPO-DA	Ave	0.2103	0.2160		5.14	5.00	2.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 28-Jul-2022 10:00:58 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0062896-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 12:14:20 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 10:46:27

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.377	4.369	0.008	0.878	808011	5.14	103	1837
* 2 13C2 PFOA	415.00 > 370.00	4.986	4.975	0.011		3740457	5.00		2676
3 MFS_N2	461.00 > 367.00	5.223	5.211	0.012	1.193	115027	0.2003	83.1	785
4 MFS_M3	577.00 > 483.00	5.818	5.812	0.006	1.329	98843	0.2321	94.3	470
5 MFS_N3	627.00 > 533.00	6.016	6.009	0.007	1.374	110975	0.2539	101	770
6 MFS_M4	743.00 > 649.00	6.407	6.400	0.007	1.464	41426	0.2225	90.7	805
7 MFS_N4	793.00 > 699.00	6.544	6.538	0.006	1.495	51990	0.2554	103	865
8 MFS_N5	959.00 > 865.00	6.927	6.915	0.012	1.583	47269	0.2761	109	1029

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-01.d

Injection Date: 28-Jul-2022 10:00:58

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

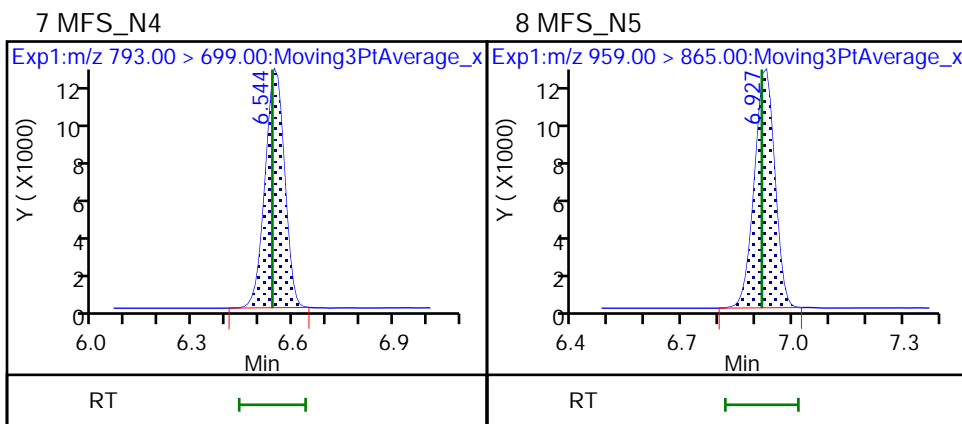
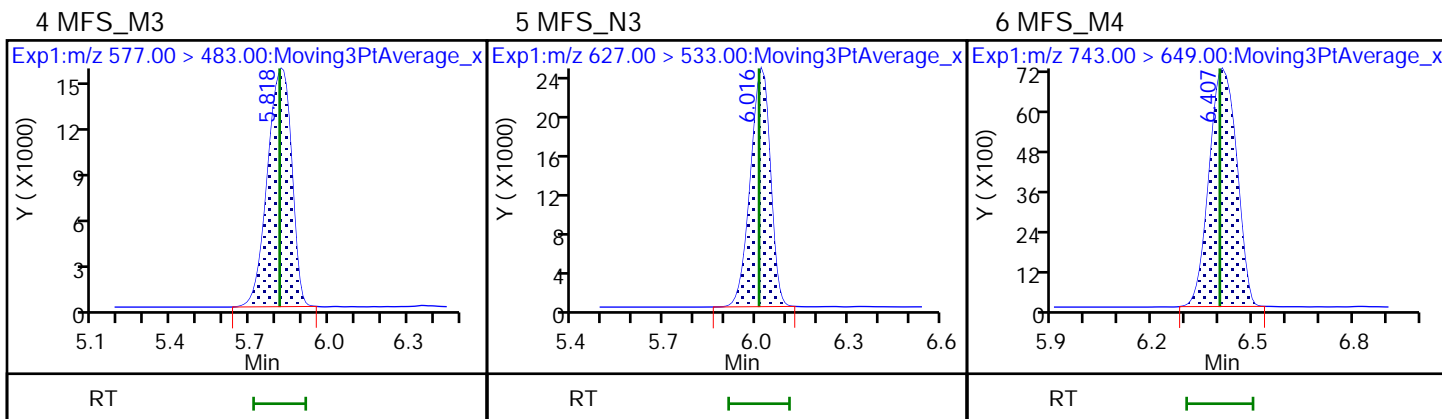
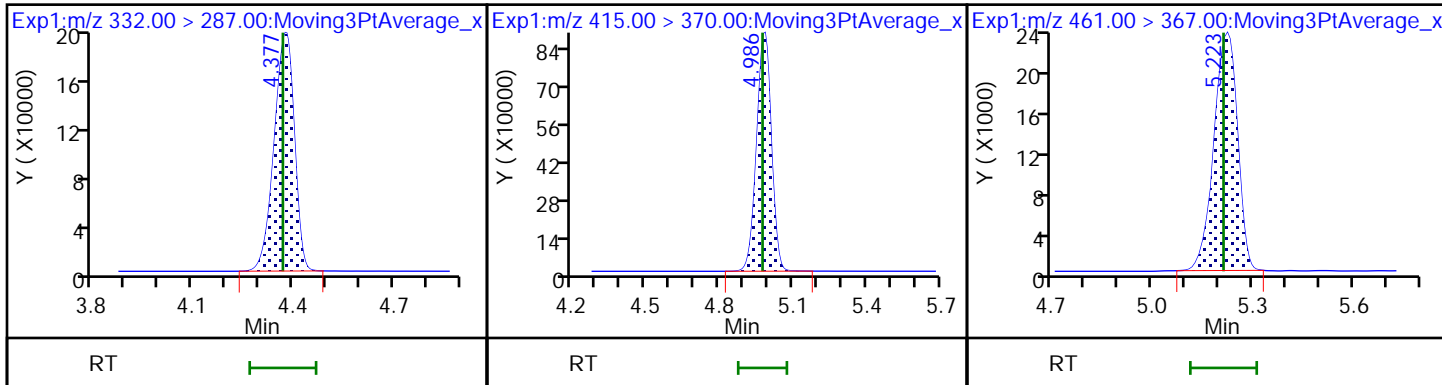
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-280443/7 Calibration Date: 07/28/2022 11:17
 Instrument ID: 30733 Calib Start Date: 07/25/2022 10:10
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 07/25/2022 11:27
 Lab File ID: 22JUL28MFS-07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.979		1.04	0.964	8.3	30.0
MFS_M3	L1ID		2.357		1.07	0.985	9.1	30.0
MFS_N3	L1ID		2.613		1.09	1.00	9.0	30.0
MFS_M4	L1ID		1.122		1.10	0.982	11.6	30.0
MFS_N4	Q2ID		1.320		1.11	0.995	11.4	30.0
MFS_N5	Q2ID		1.252		1.15	1.01	14.0	30.0
13C3 HFPO-DA	Ave	0.2103	0.2023		4.81	5.00	-3.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-07.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Jul-2022 11:17:45 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0062896-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 12:14:24 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 12:13:43

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.368	4.369	-0.001	0.879	768289	4.81	96.2	1517
* 2 13C2 PFOA	415.00 > 370.00	4.971	4.975	-0.004		3797223	5.00		2402
3 MFS_N2	461.00 > 367.00	5.208	5.211	-0.003	1.192	441177	1.04	108	1886
4 MFS_M3	577.00 > 483.00	5.818	5.812	0.006	1.332	356609	1.07	109	889
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.375	402031	1.09	109	1293
6 MFS_M4	743.00 > 649.00	6.399	6.400	-0.001	1.465	169269	1.10	112	1062
7 MFS_N4	793.00 > 699.00	6.544	6.538	0.006	1.498	201897	1.11	111	1519
8 MFS_N5	959.00 > 865.00	6.918	6.915	0.003	1.584	194244	1.15	114	2214

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-07.d

Injection Date: 28-Jul-2022 11:17:45

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

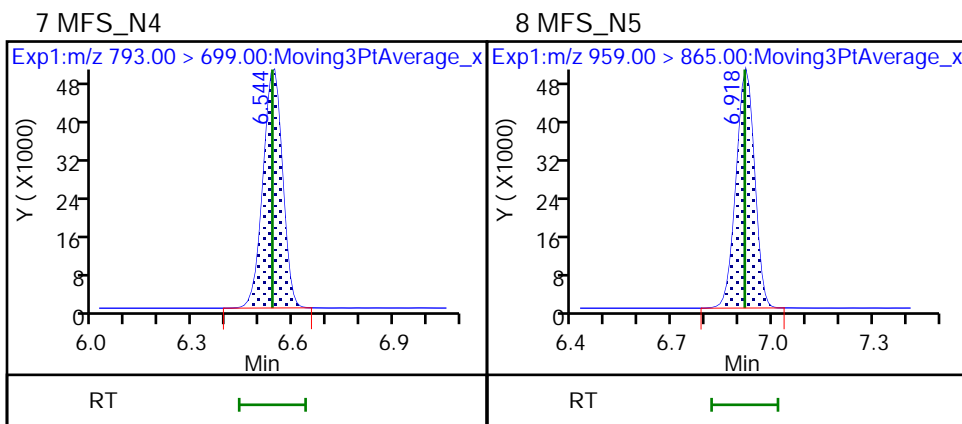
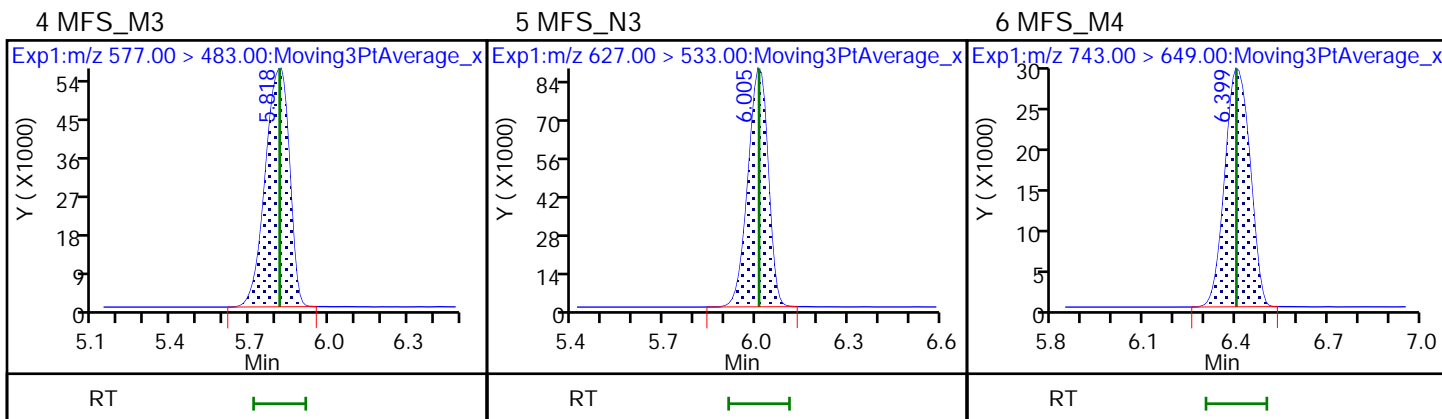
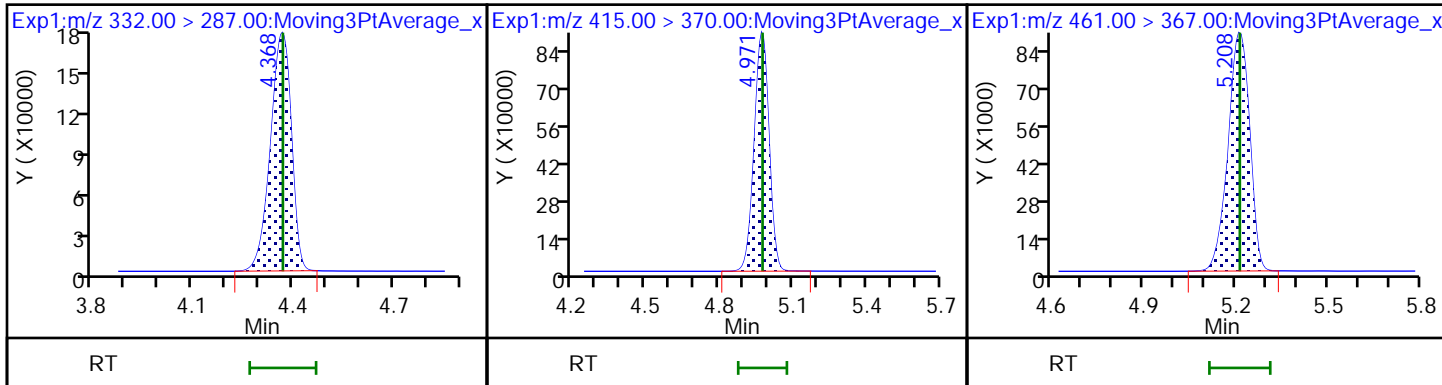
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: ICV 410-283151/9 Calibration Date: 08/05/2022 10:34
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG05MFSCAL-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.873		0.962	0.964	-0.2	30.0
MFS_M3	L1ID		2.145		0.966	0.985	-1.9	30.0
MFS_N3	L1ID		2.383		0.978	1.00	-2.3	30.0
MFS_M4	L1ID		1.127		0.998	0.982	1.7	30.0
MFS_N4	L1ID		1.324		1.02	0.995	2.4	30.0
MFS_N5	L1ID		1.220		0.980	1.01	-2.9	30.0
13C3 HFPO-DA	Ave	0.2019	0.2006		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 05-Aug-2022 10:34:09 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:28:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:23

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.389	-0.004	0.879	685023	4.97	99.4	2627
* 2 13C2 PFOA	415.00 > 370.00	4.990	4.998	-0.008		3414636	5.00		5022
3 MFS_N2	461.00 > 367.00	5.237	5.242	-0.005	1.194	379478	0.9623		1913
4 MFS_M3	577.00 > 483.00	5.846	5.854	-0.008	1.333	289353	0.9657		977
5 MFS_N3	627.00 > 533.00	6.033	6.039	-0.006	1.376	326961	0.9778		1610
6 MFS_M4	743.00 > 649.00	6.436	6.437	-0.001	1.468	151502	1.00		1564
7 MFS_N4	793.00 > 699.00	6.566	6.567	-0.001	1.497	180449	1.02		2539
8 MFS_N5	959.00 > 865.00	6.938	6.942	-0.004	1.582	168796	0.9800		3431

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d

Injection Date: 05-Aug-2022 10:34:09

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

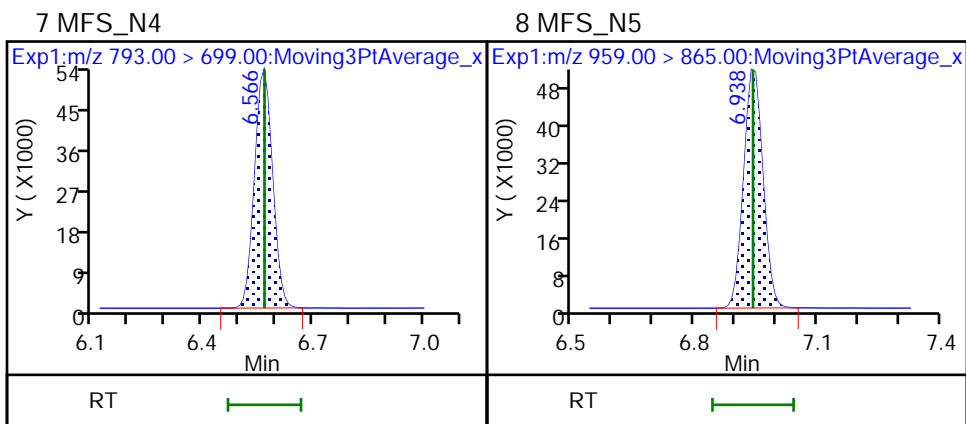
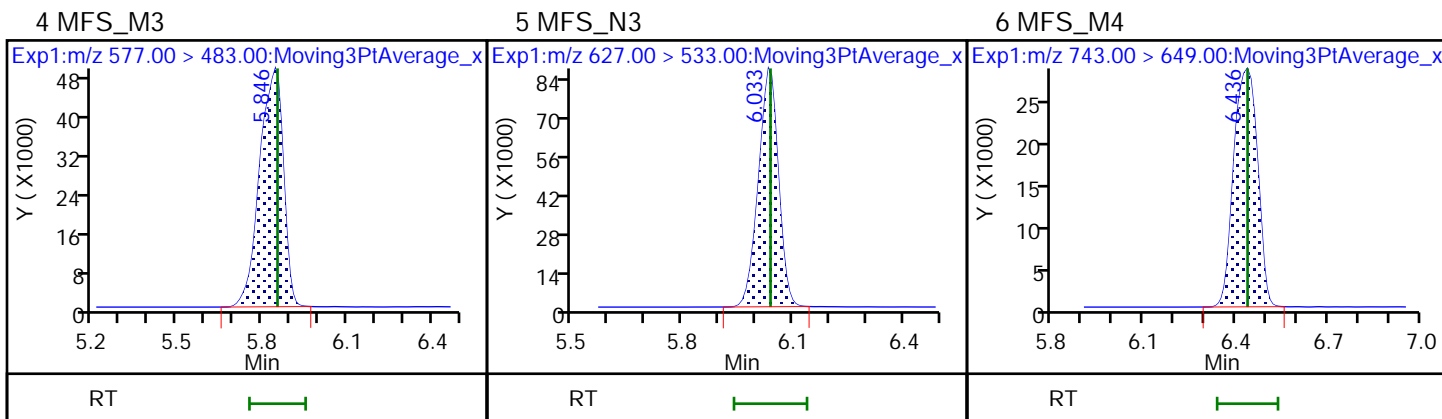
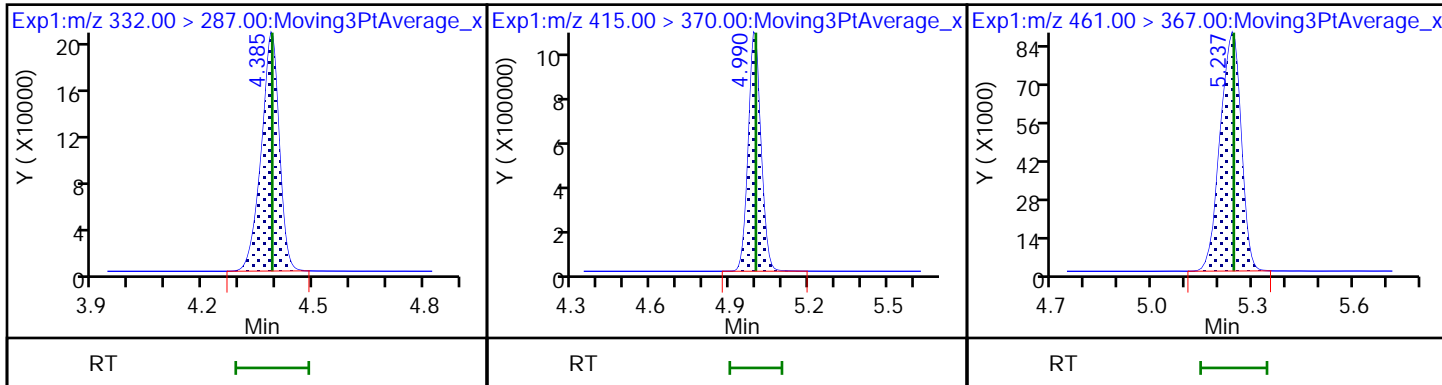
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/1 Calibration Date: 08/05/2022 12:17
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.189		0.208	0.241	-13.8	50.0
MFS_M3	L1ID		2.555		0.233	0.246	-5.4	50.0
MFS_N3	L1ID		2.751		0.254	0.250	1.4	50.0
MFS_M4	L1ID		1.197		0.217	0.245	-11.8	50.0
MFS_N4	L1ID		1.560		0.225	0.249	-9.6	50.0
MFS_N5	L1ID		1.332		0.251	0.252	-0.5	50.0
13C3 HFPO-DA	Ave	0.2019	0.1913		4.74	5.00	-5.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 12:17:41 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:42:49

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.879	630381	4.74	94.7	2978
* 2 13C2 PFOA	415.00 > 370.00	5.007	5.007	0.0		3295947	5.00		5209
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	96880	0.2078	86.2	876
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.331	79314	0.2330	94.6	474
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.373	86836	0.2538	101	1216
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	37045	0.2165	88.2	980
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	48917	0.2250	90.4	1622
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	42401	0.2512	99.5	2158

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d

Injection Date: 05-Aug-2022 12:17:41

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

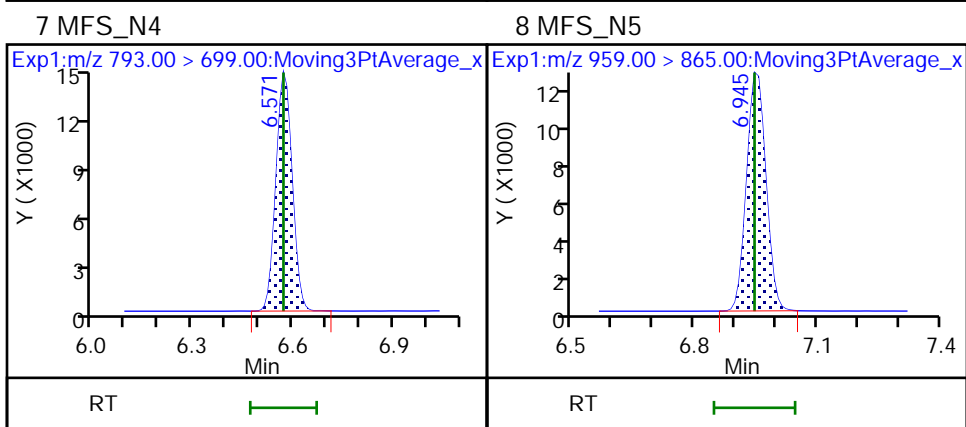
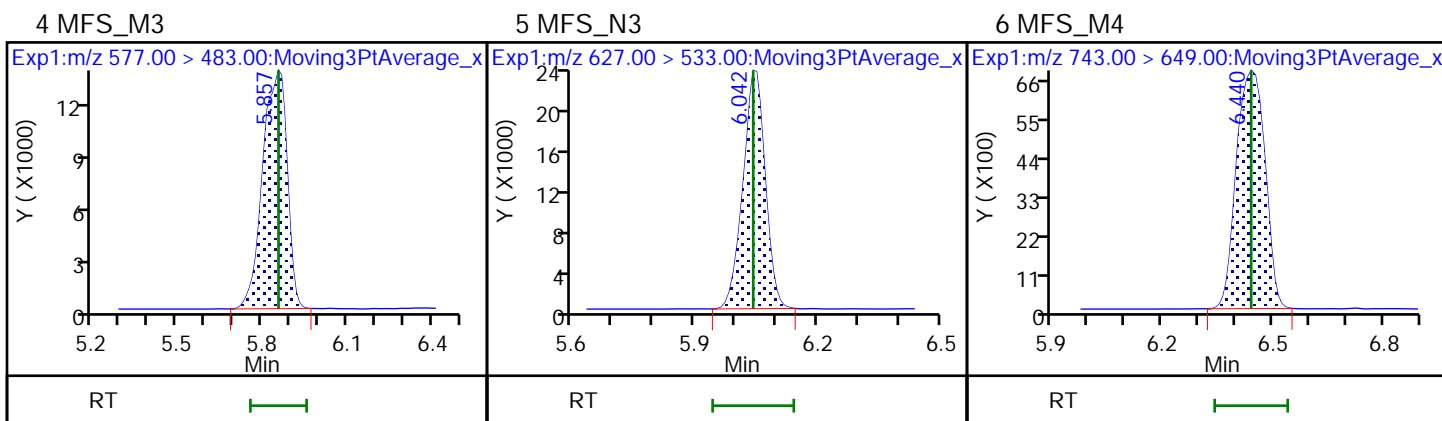
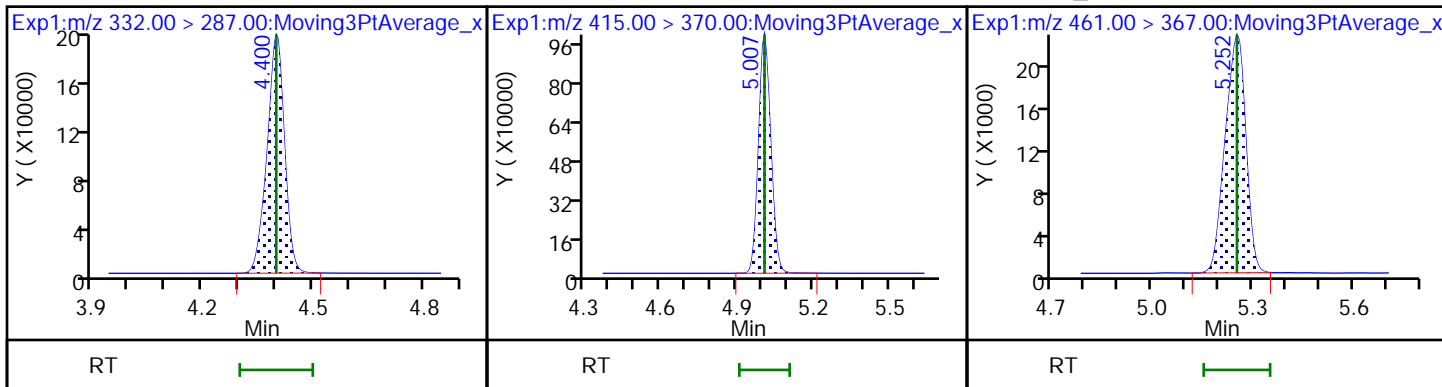
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/7 Calibration Date: 08/05/2022 13:34
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.023		1.02	0.964	5.5	30.0
MFS_M3	L1ID		2.253		1.02	0.985	3.4	30.0
MFS_N3	L1ID		2.539		1.04	1.00	4.3	30.0
MFS_M4	L1ID		1.210		1.08	0.982	9.7	30.0
MFS_N4	L1ID		1.467		1.14	0.995	14.7	30.0
MFS_N5	L1ID		1.305		1.05	1.01	4.0	30.0
13C3 HFPO-DA	Ave	0.2019	0.1900		4.70	5.00	-5.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 13:34:31 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:01

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.392	4.400	-0.008	0.879	625902	4.70	94.1	2222
* 2 13C2 PFOA	415.00 > 370.00	4.997	5.007	-0.010		3294826	5.00		3748
3 MFS_N2	461.00 > 367.00	5.246	5.252	-0.006	1.194	364767	1.02	105	2047
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.334	277784	1.02	103	894 M
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.376	318229	1.04	104	1794
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.466	148695	1.08	110	1960
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.496	182721	1.14	115	2345
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.582	164986	1.05	104	2993

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d

Injection Date: 05-Aug-2022 13:34:31

Instrument ID: 30733

Lims ID: CCV_2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

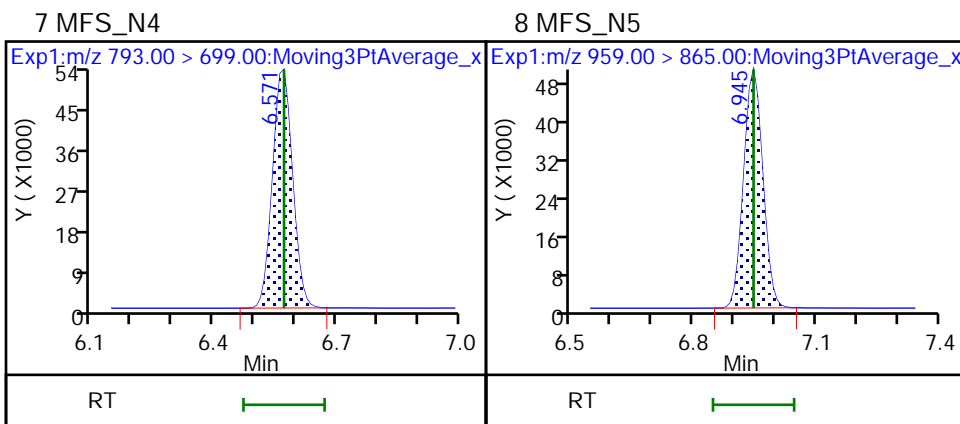
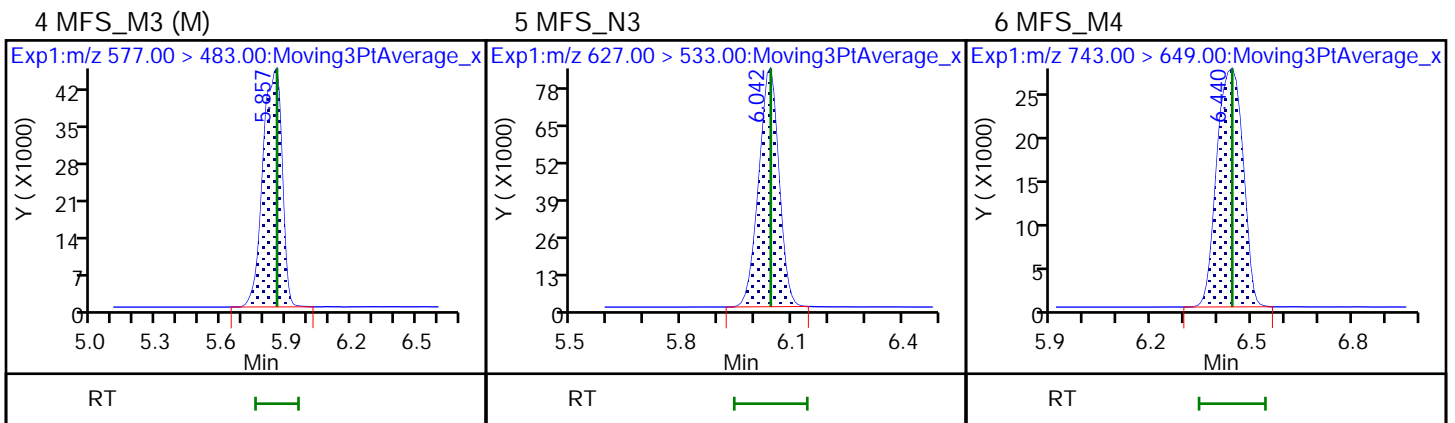
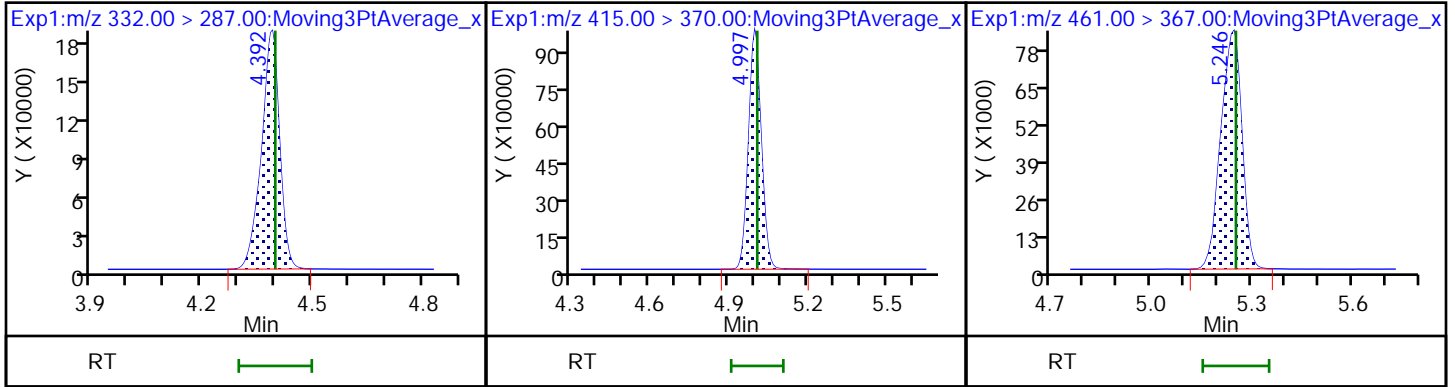
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC

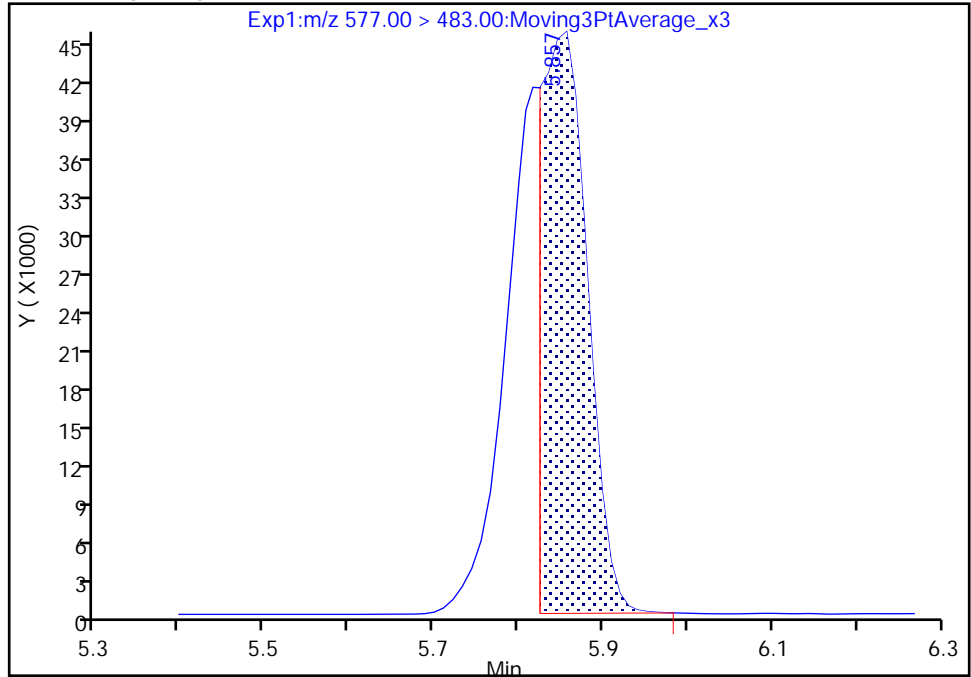
Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d
Injection Date: 05-Aug-2022 13:34:31 Instrument ID: 30733
Lims ID: CCV_2_CAL3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

4 MFS_M3, CAS: STL02874

Signal: 1

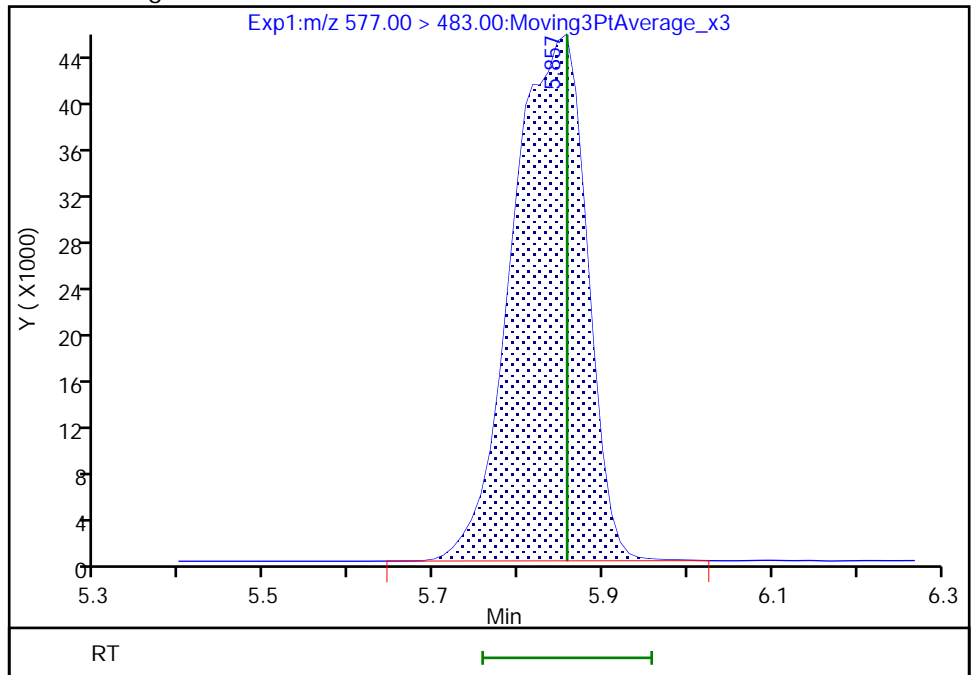
RT: 5.86
Area: 162466
Amount: 0.563400
Amount Units: ng/ml

Processing Integration Results



RT: 5.86
Area: 277784
Amount: 1.018559
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:01:56
Audit Action: Manually Integrated

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-277012/1-A

Matrix: Water Lab File ID: 22JUL27MFS-21.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:31

Sample wt/vol: 250 (mL) Date Analyzed: 07/28/2022 07:43

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	118		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-21.d
 Lims ID: MB 410-277012/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Jul-2022 07:43:13 ALS Bottle#: 26 Worklist Smp#: 21
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-277012/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-021
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 09:14:42 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 09:14:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.369	4.369	0.0	0.878	822263	5.88	118	2104
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3322688	5.00		2957

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-21.d

Injection Date: 28-Jul-2022 07:43:13

Instrument ID: 30733

Lims ID: MB 410-277012/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 21

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

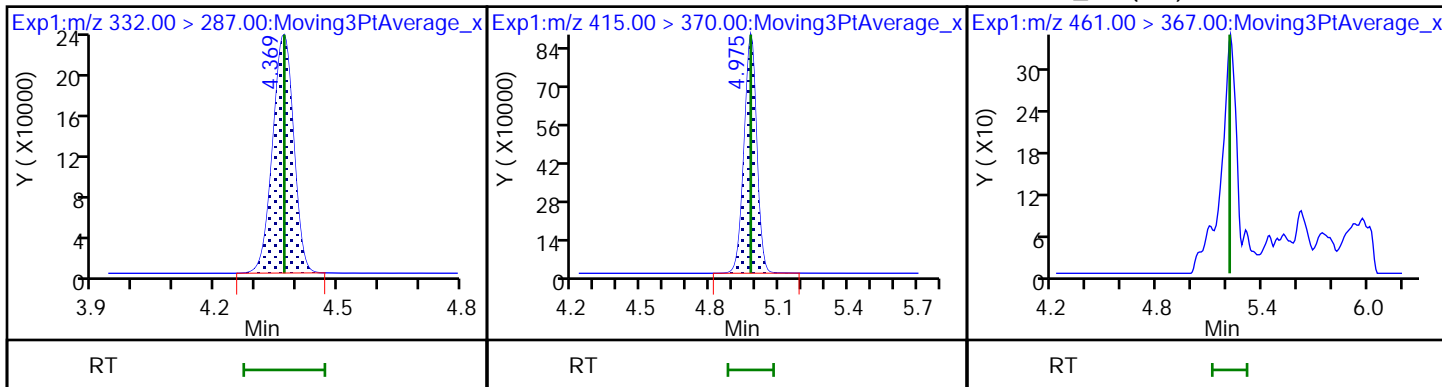
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

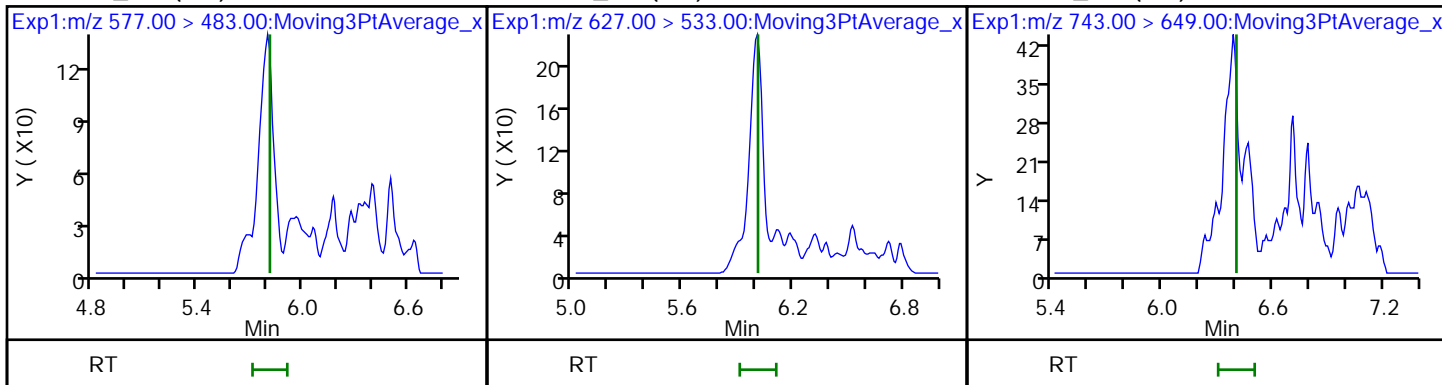
3 MFS_N2 (ND)



4 MFS_M3 (ND)

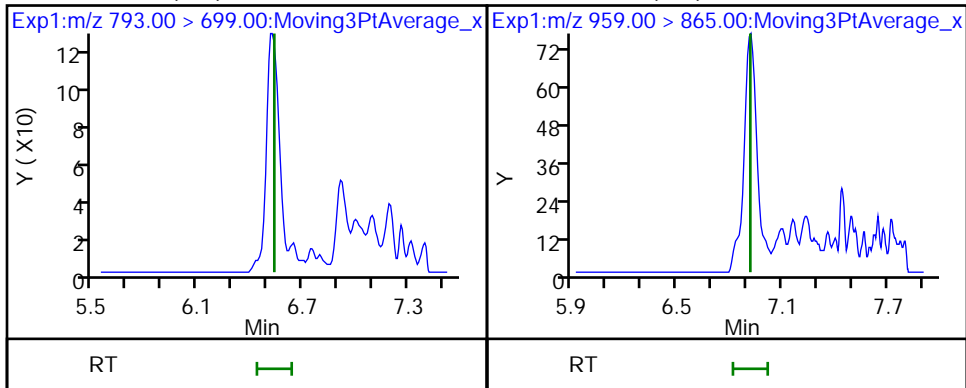
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-278614/1-A

Matrix: Water Lab File ID: 22JUL25MFS-36.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 250 (mL) Date Analyzed: 07/25/2022 21:23

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-36.d
 Lims ID: MB 410-278614/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 25-Jul-2022 21:23:06 ALS Bottle#: 32 Worklist Smp#: 26
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-278614/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-026
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:11:48
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA
 332.00 > 287.00 4.358 4.369 -0.011 0.877 800766 4.79 95.7 3087
 * 2 13C2 PFOA
 415.00 > 370.00 4.970 4.975 -0.005 3977579 5.00 4814

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-36.d

Injection Date: 25-Jul-2022 21:23:06

Instrument ID: 30733

Lims ID: MB 410-278614/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 32

Worklist Smp#: 26

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

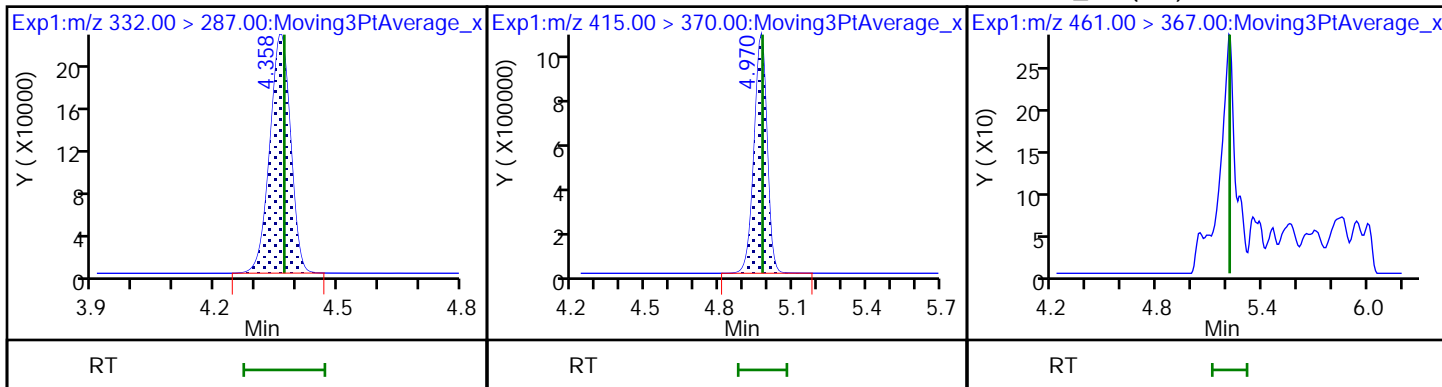
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

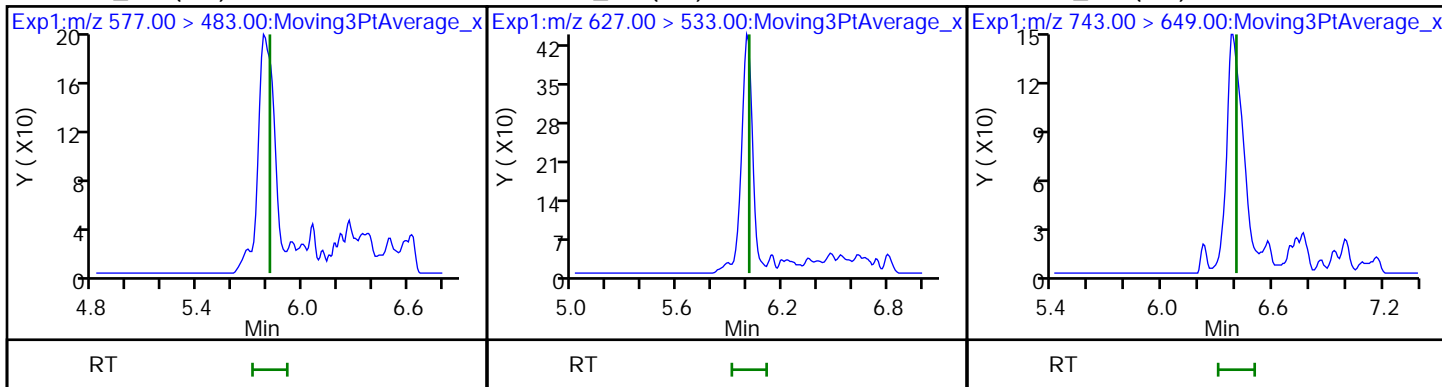
3 MFS_N2 (ND)



4 MFS_M3 (ND)

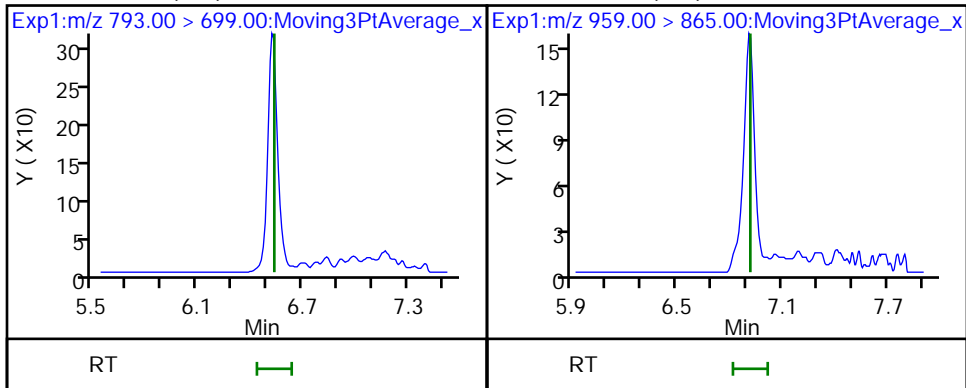
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-278617/1-A

Matrix: Water Lab File ID: 22JUL25MFS-29.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/22/2022 12:47

Sample wt/vol: 250 (mL) Date Analyzed: 07/25/2022 19:54

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	104		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-29.d
 Lims ID: MB 410-278617/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 25-Jul-2022 19:54:51 ALS Bottle#: 26 Worklist Smp#: 19
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-278617/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:11:17
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.361 4.369 -0.008 0.878 755836 5.22 104 3062
 * 2 13C2 PFOA
 415.00 > 370.00 4.968 4.975 -0.007 3444041 5.00 4795

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-29.d

Injection Date: 25-Jul-2022 19:54:51

Instrument ID: 30733

Lims ID: MB 410-278617/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 19

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

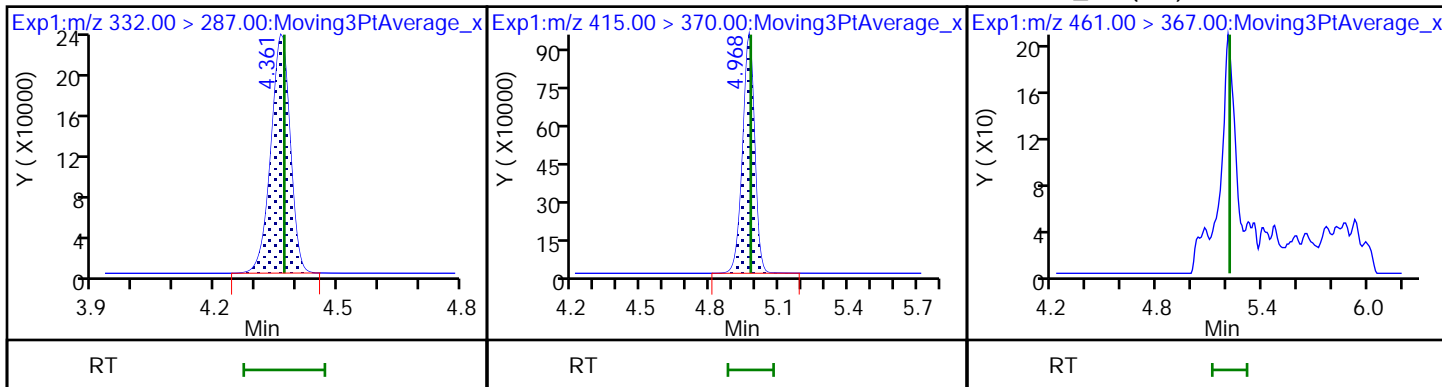
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

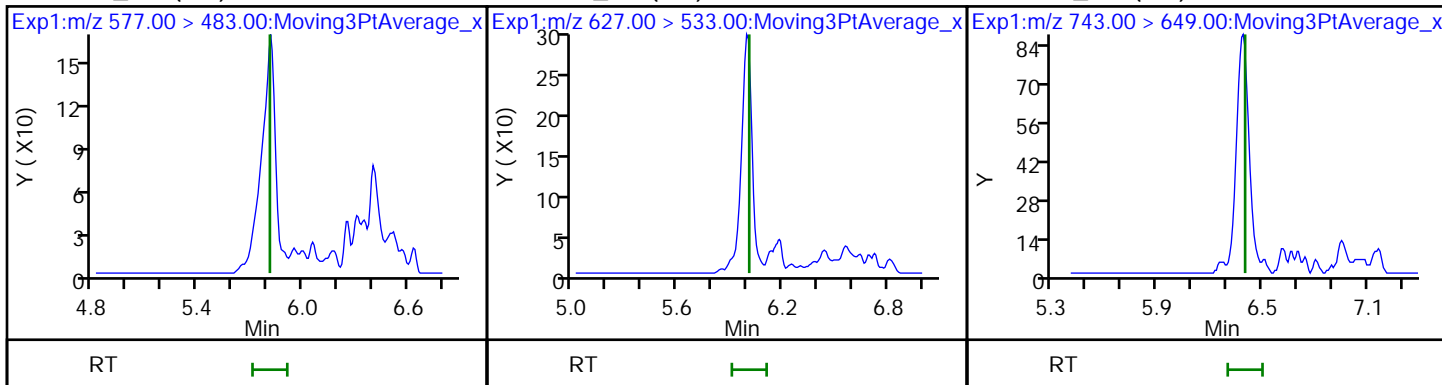
3 MFS_N2 (ND)



4 MFS_M3 (ND)

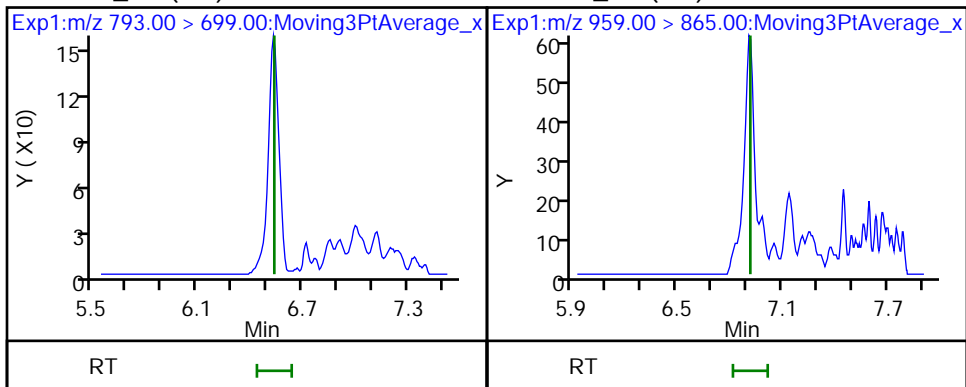
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-278618/1-A

Matrix: Water Lab File ID: 22JUL27MFS-08.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 250 (mL) Date Analyzed: 07/28/2022 04:59

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-08.d
 Lims ID: MB 410-278618/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Jul-2022 04:59:26 ALS Bottle#: 14 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-278618/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 08:41:39 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 08:11:56
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.367 4.369 -0.002 0.877 737405 5.46 109 2346
 * 2 13C2 PFOA
 415.00 > 370.00 4.978 4.975 0.003 3212201 5.00 3120

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-08.d

Injection Date: 28-Jul-2022 04:59:26

Instrument ID: 30733

Lims ID: MB 410-278618/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

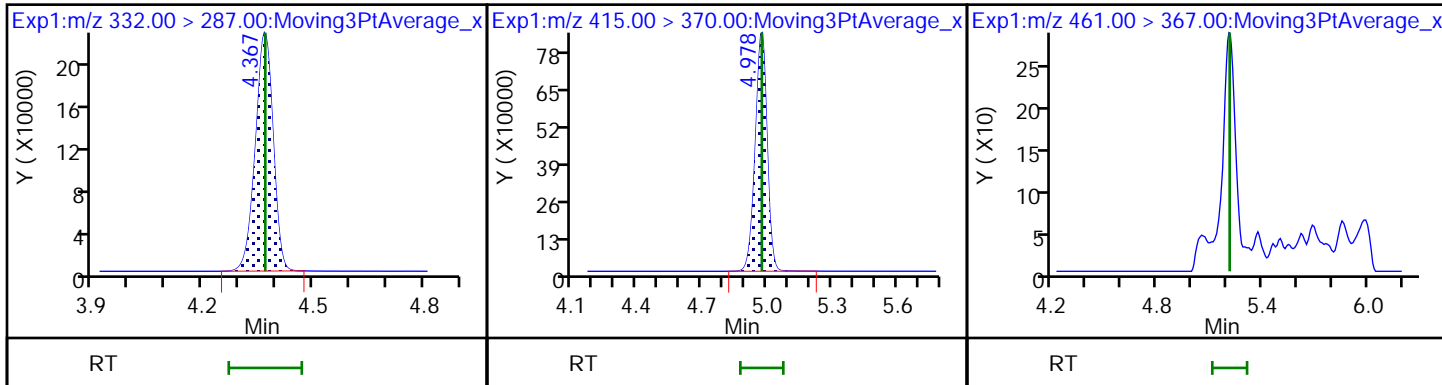
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

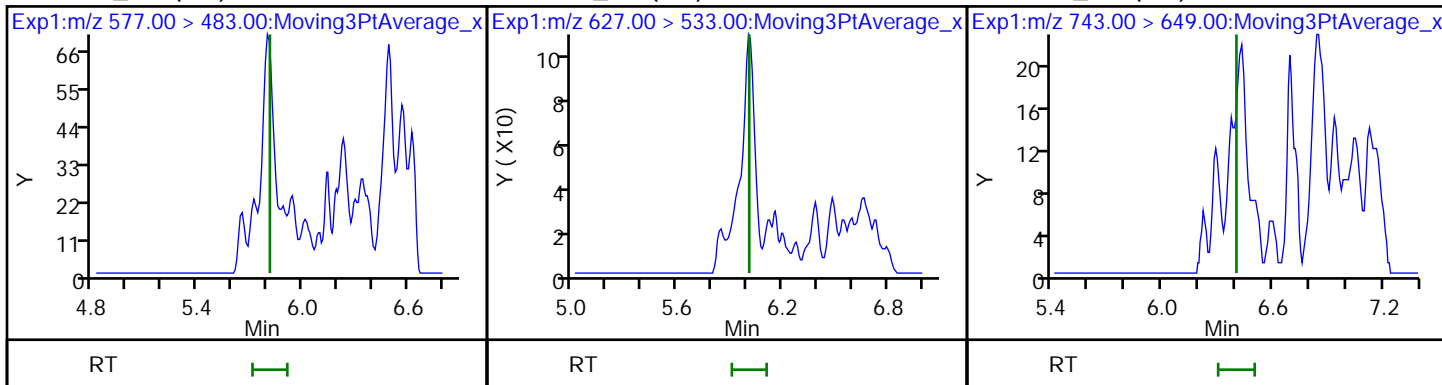
3 MFS_N2 (ND)



4 MFS_M3 (ND)

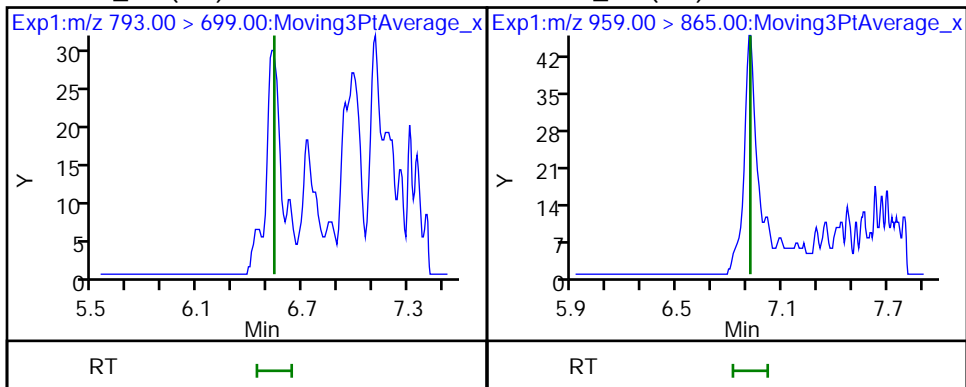
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279532/1-A

Matrix: Water Lab File ID: 22AUG5MFS-02.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 12:31

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-02.d
 Lims ID: MB 410-279532/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Aug-2022 12:31:34 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279532/1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:54:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.400	-0.006	0.878	642296	4.26	85.2	3429
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3731777	5.00		6335
3 MFS_N2	461.00 > 367.00	5.250	5.252	-0.002	1.195	7897	-0.0588		70.5

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-02.d

Injection Date: 05-Aug-2022 12:31:34

Instrument ID: 30733

Lims ID: MB 410-279532/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

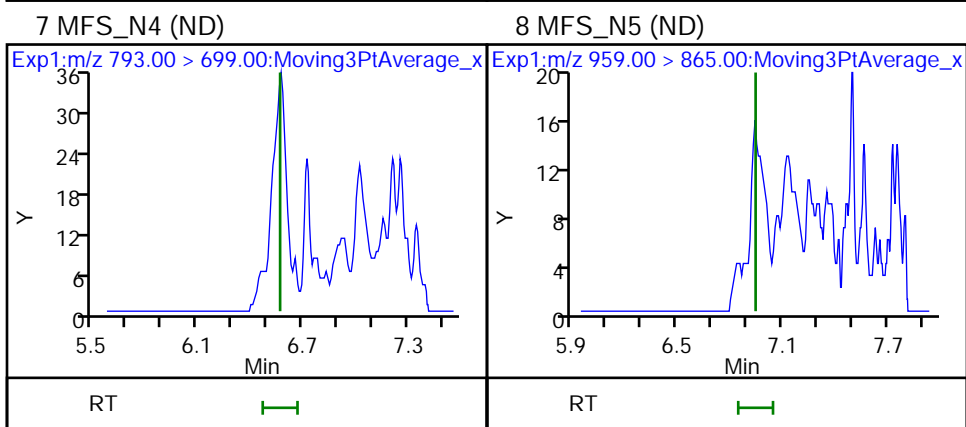
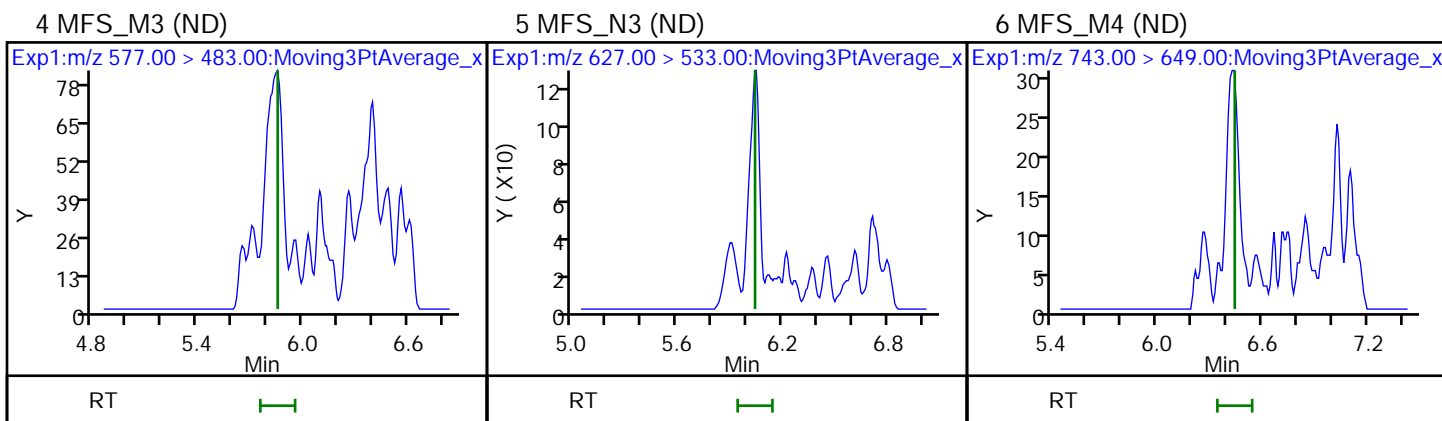
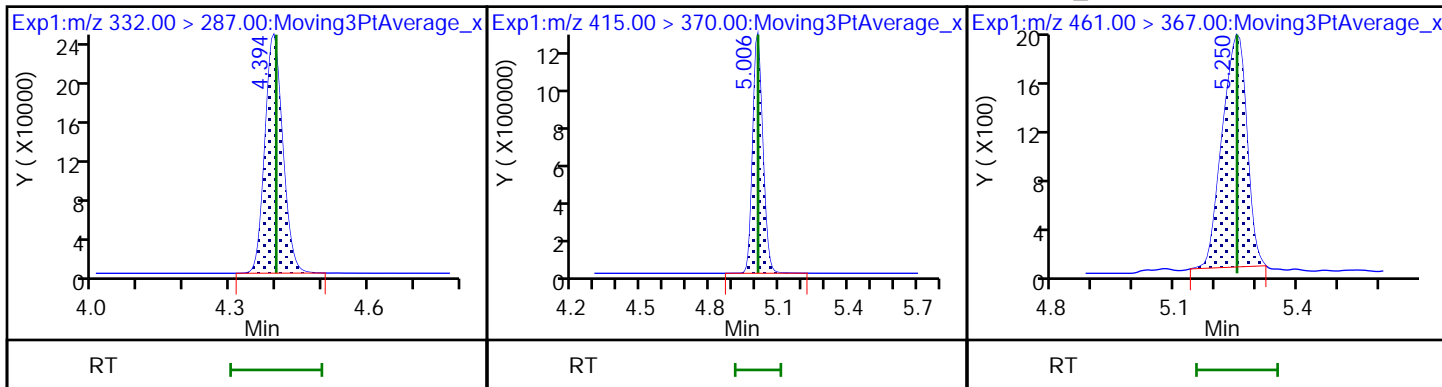
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-279067/8

Matrix: Water Lab File ID: 22JUL25MFS-08.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 07/25/2022 11:39

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279067 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-08.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 25-Jul-2022 11:39:45 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 10 Rack: 1 410-0062577-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 25-Jul-2022 13:54:10 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1674

First Level Reviewer: JVK6 Date: 25-Jul-2022 13:49:47
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.369	4.370	-0.001	0.878	769191	5.26	105	2217
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3480343	5.00		3876

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-08.d

Injection Date: 25-Jul-2022 11:39:45

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

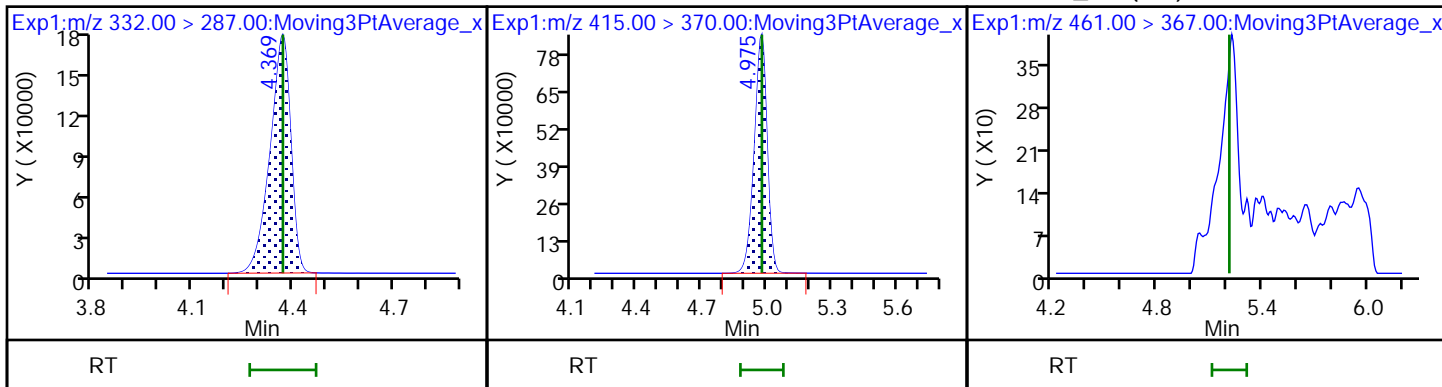
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

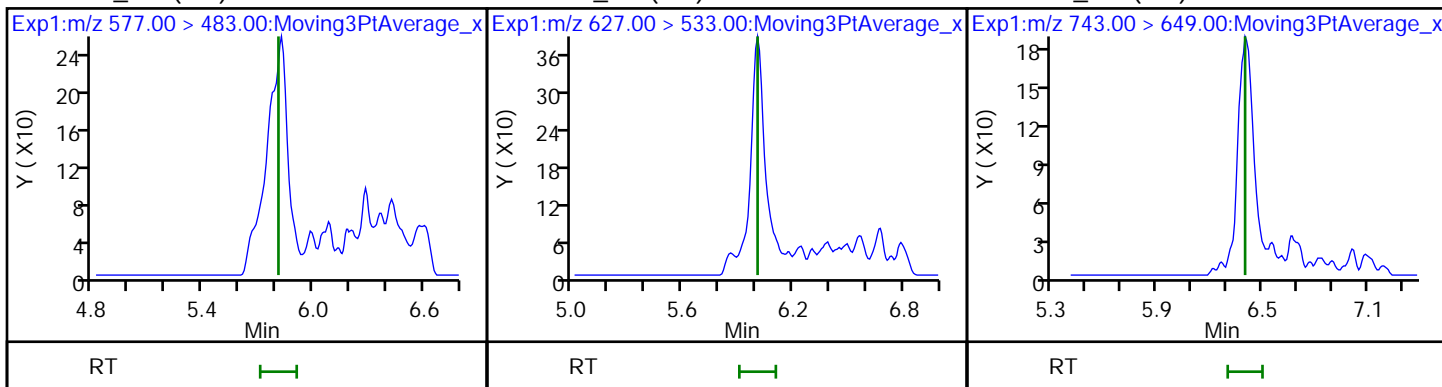
3 MFS_N2 (ND)



4 MFS_M3 (ND)

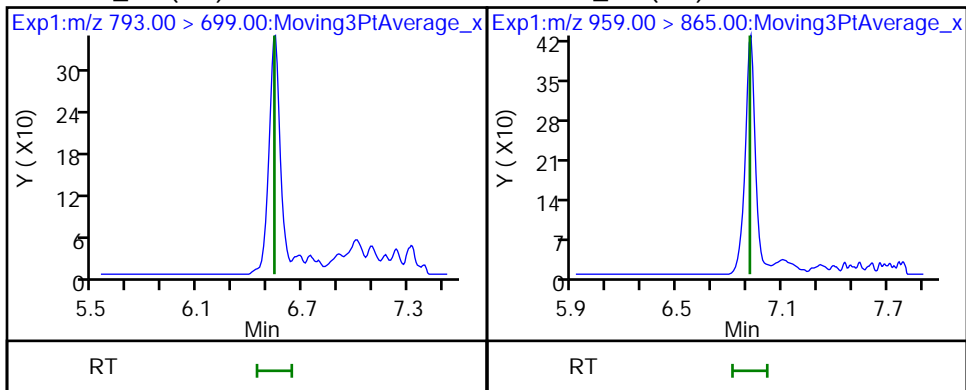
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-283151/8

Matrix: Water Lab File ID: 22AUG05MFSCAL-12.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/05/2022 10:21

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283151 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 05-Aug-2022 10:21:32 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:19
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.387	4.389	-0.002	0.878	648984	5.14	103	2787
* 2 13C2 PFOA	415.00 > 370.00	4.996	4.998	-0.002		3128259	5.00		4711
8 MFS_N5	959.00 > 865.00	6.947	6.942	0.005	1.584	1102	-0.0156		30.3

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d

Injection Date: 05-Aug-2022 10:21:32

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

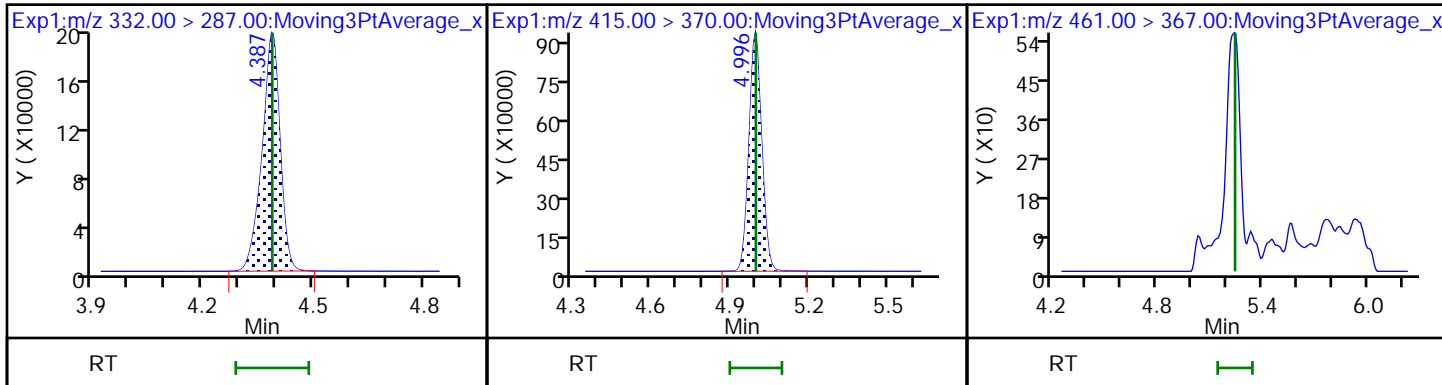
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

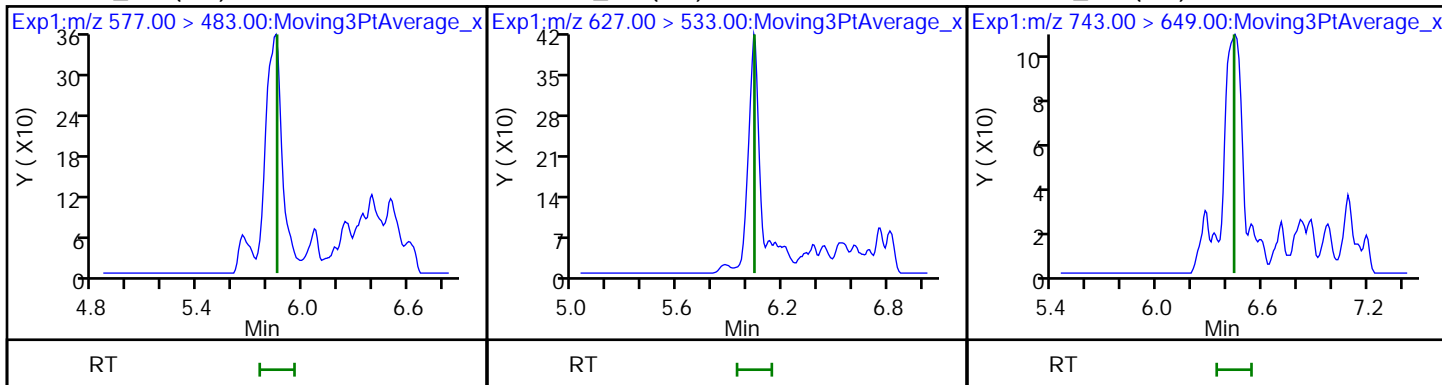
3 MFS_N2 (ND)



4 MFS_M3 (ND)

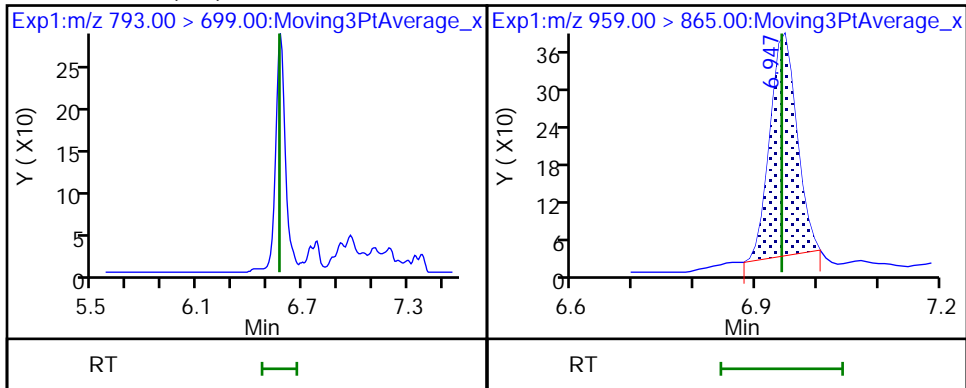
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-277012/2-A

Matrix: Water Lab File ID: 22JUL27MFS-22.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/19/2022 09:31

Sample wt/vol: 250 (mL) Date Analyzed: 07/28/2022 07:55

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	37.9		1.0	0.20
STL02874	MFS_M3	38.1		1.0	0.20
STL02875	MFS_N3	38.2		1.0	0.20
STL02876	MFS_M4	37.3		1.0	0.50
STL02877	MFS_N4	35.3		2.0	1.0
STL02888	MFS_N5	39.4		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	122		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-22.d
 Lims ID: LCS 410-277012/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Jul-2022 07:55:50 ALS Bottle#: 27 Worklist Smp#: 22
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-277012/2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-022
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 09:14:42 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 09:14:37
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.365	4.369	-0.004	0.877	882169	6.10	122	2120
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3440526	5.00		2858
3 MFS_N2	461.00 > 367.00	5.209	5.211	-0.002	1.193	4315933	9.48	98.4	15512
4 MFS_M3	577.00 > 483.00	5.811	5.812	-0.001	1.331	3433692	9.52	96.7	2686
5 MFS_N3	627.00 > 533.00	6.006	6.009	-0.003	1.376	3900438	9.55	95.4	3761
6 MFS_M4	743.00 > 649.00	6.399	6.400	-0.001	1.466	1598473	9.32	94.9	3518
7 MFS_N4	793.00 > 699.00	6.535	6.538	-0.003	1.497	1754409	8.84	88.8	4346
8 MFS_N5	959.00 > 865.00	6.918	6.915	0.003	1.585	1874927	9.84	97.5	7795

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-22.d

Injection Date: 28-Jul-2022 07:55:50

Instrument ID: 30733

Lims ID: LCS 410-277012/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 22

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

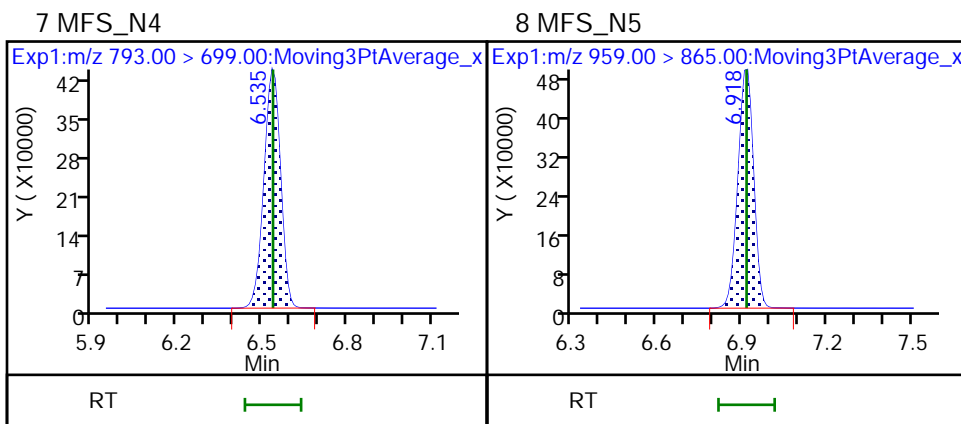
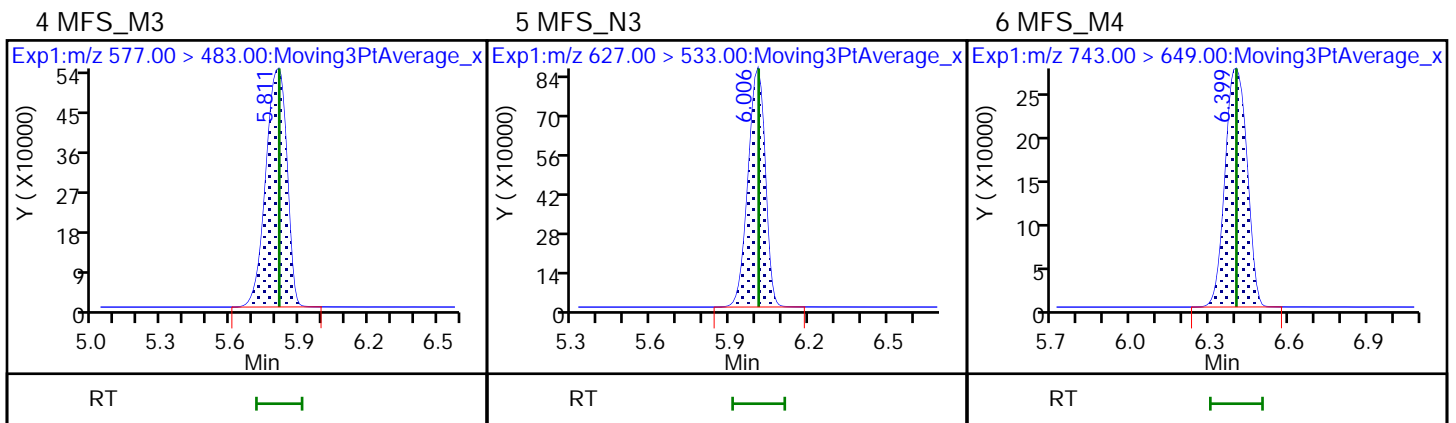
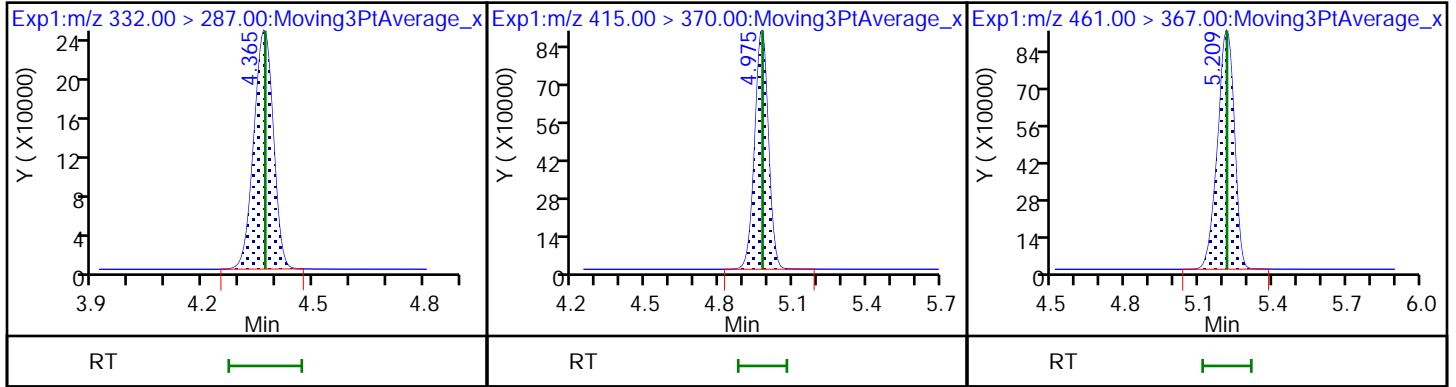
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-278614/2-A

Matrix: Water Lab File ID: 22JUL27MFS-02.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 250 (mL) Date Analyzed: 07/28/2022 03:43

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	38.3		1.0	0.20
STL02874	MFS_M3	36.7		1.0	0.20
STL02875	MFS_N3	35.6		1.0	0.20
STL02876	MFS_M4	33.7		1.0	0.50
STL02877	MFS_N4	33.1		2.0	1.0
STL02888	MFS_N5	36.1		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	110		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-02.d
 Lims ID: LCS 410-278614/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Jul-2022 03:43:49 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-278614/2-A RA
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 07:56:38 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:56:19
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.375	4.369	0.006	0.879	815294	5.50	110	2120
* 2 13C2 PFOA	415.00 > 370.00	4.977	4.975	0.002		3526009	5.00		2698
3 MFS_N2	461.00 > 367.00	5.214	5.211	0.003	1.192	4025775	9.57	99.3	20679
4 MFS_M3	577.00 > 483.00	5.815	5.812	0.003	1.329	3057095	9.17	93.1	2935
5 MFS_N3	627.00 > 533.00	6.012	6.009	0.003	1.374	3362573	8.91	89.0	4050
6 MFS_M4	743.00 > 649.00	6.401	6.400	0.001	1.463	1335953	8.42	85.8	3599
7 MFS_N4	793.00 > 699.00	6.538	6.538	0.0	1.494	1521097	8.27	83.1	4280
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.581	1590895	9.01	89.3	7660

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-02.d

Injection Date: 28-Jul-2022 03:43:49

Instrument ID: 30733

Lims ID: LCS 410-278614/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

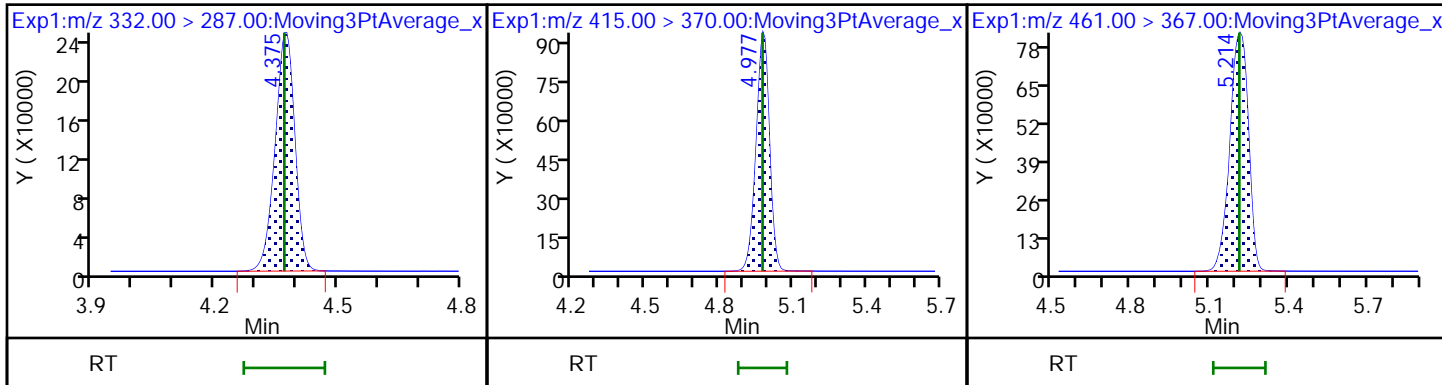
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

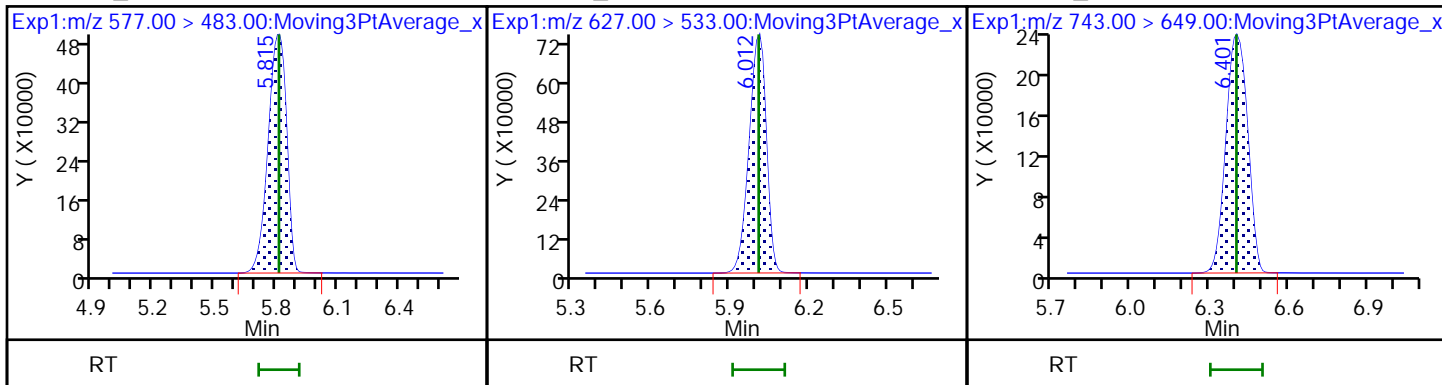
3 MFS_N2



4 MFS_M3

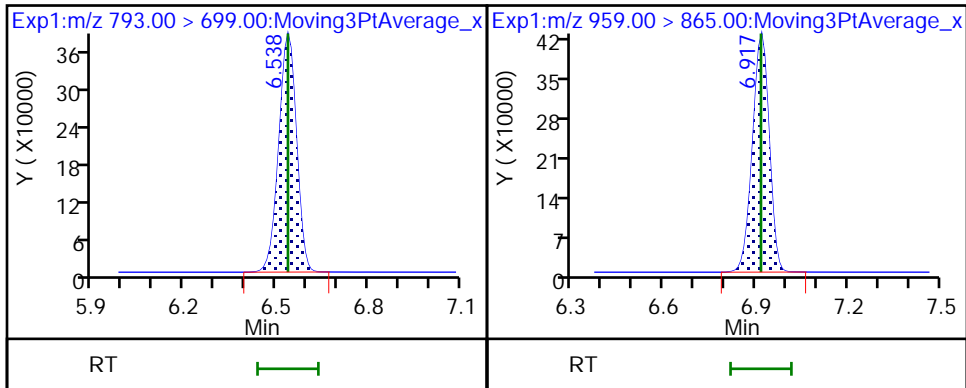
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-278617/2-A

Matrix: Water Lab File ID: 22JUL25MFS-30.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/22/2022 12:47

Sample wt/vol: 250 (mL) Date Analyzed: 07/25/2022 20:07

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	39.0		1.0	0.20
STL02874	MFS_M3	38.9		1.0	0.20
STL02875	MFS_N3	37.7		1.0	0.20
STL02876	MFS_M4	36.6		1.0	0.50
STL02877	MFS_N4	35.5		2.0	1.0
STL02888	MFS_N5	34.3		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-30.d
 Lims ID: LCS 410-278617/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 25-Jul-2022 20:07:25 ALS Bottle#: 27 Worklist Smp#: 20
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-278617/2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:11:22
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.365	4.369	-0.004	0.878	780574	5.32	106	3134
* 2 13C2 PFOA	415.00 > 370.00	4.972	4.975	-0.003		3488713	5.00		4519
3 MFS_N2	461.00 > 367.00	5.208	5.211	-0.003	1.193	3926812	9.75	101	21972
4 MFS_M3	577.00 > 483.00	5.810	5.812	-0.002	1.331	3099772	9.71	98.6	4195
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.376	3407516	9.43	94.2	5529
6 MFS_M4	743.00 > 649.00	6.390	6.400	-0.010	1.464	1388969	9.15	93.2	4511
7 MFS_N4	793.00 > 699.00	6.534	6.538	-0.004	1.497	1556937	8.86	89.1	5972
8 MFS_N5	959.00 > 865.00	6.908	6.915	-0.007	1.583	1450247	8.57	84.9	9799

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-30.d

Injection Date: 25-Jul-2022 20:07:25

Instrument ID: 30733

Lims ID: LCS 410-278617/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 20

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

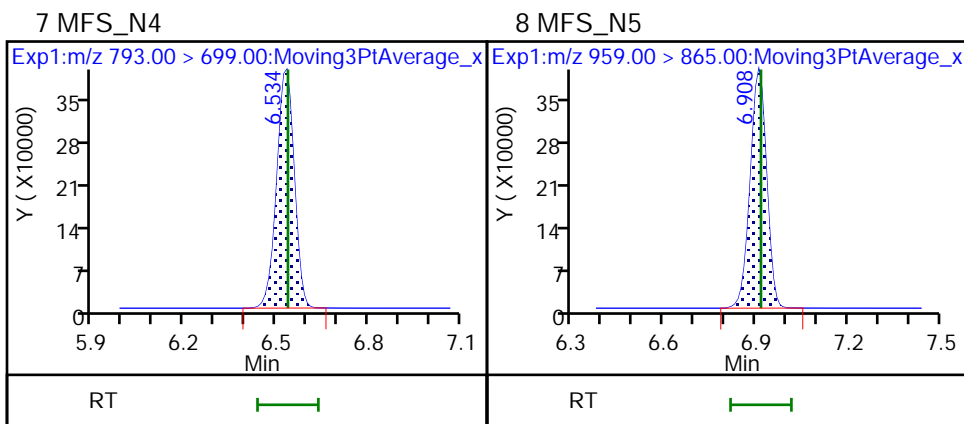
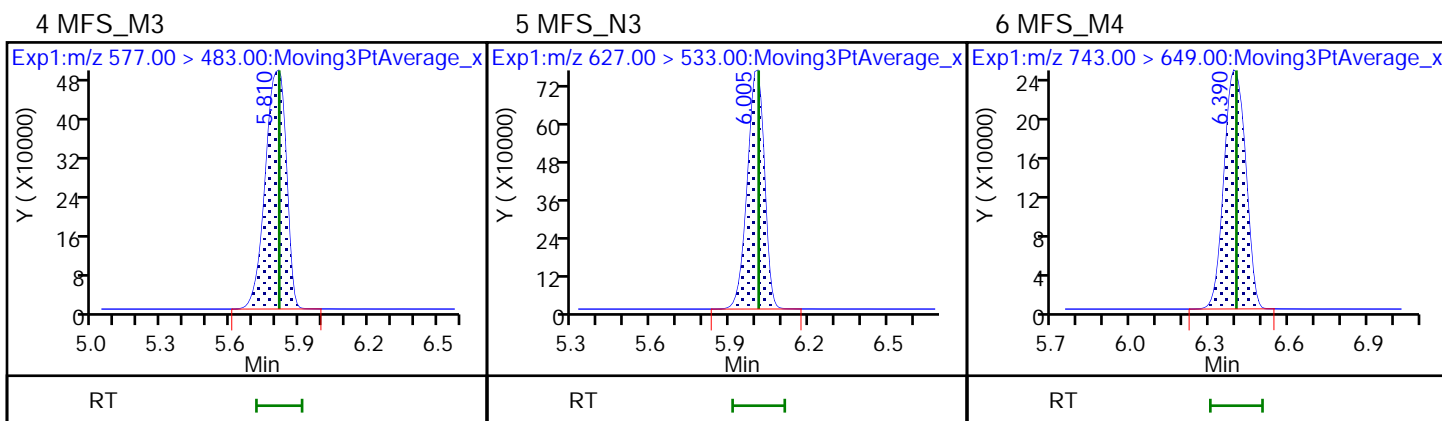
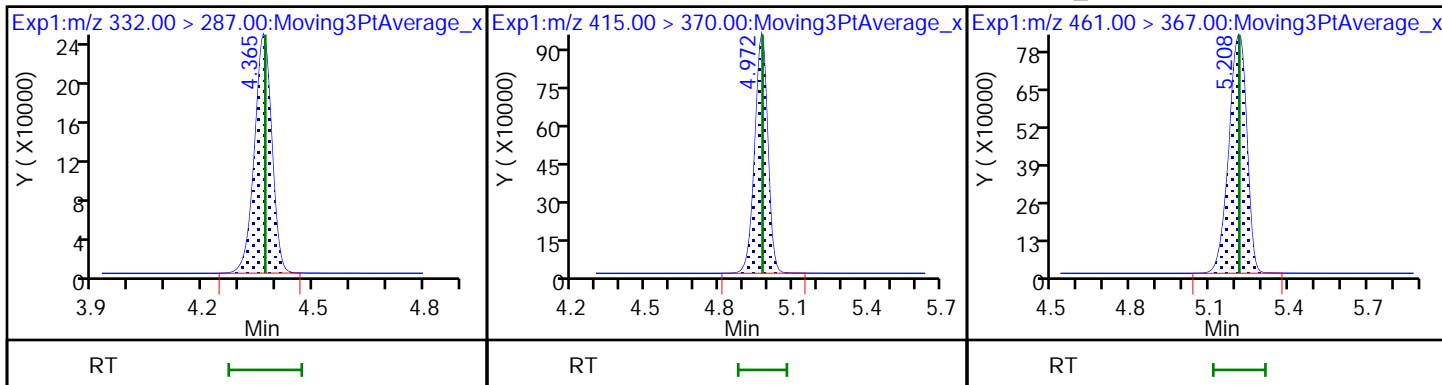
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-278618/2-A

Matrix: Water Lab File ID: 22JUL28MFS-02.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 250 (mL) Date Analyzed: 07/28/2022 10:14

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280443 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	39.0		1.0	0.20
STL02874	MFS_M3	39.0		1.0	0.20
STL02875	MFS_N3	40.3		1.0	0.20
STL02876	MFS_M4	37.9		1.0	0.50
STL02877	MFS_N4	37.2		2.0	1.0
STL02888	MFS_N5	39.9		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-02.d
 Lims ID: LCS 410-278618/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Jul-2022 10:14:45 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-278618/2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0062896-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 12:14:20 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 10:46:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.382	4.369	0.013	0.878	831263	5.27	105	2305
* 2 13C2 PFOA	415.00 > 370.00	4.989	4.975	0.014		3752834	5.00		3020
3 MFS_N2	461.00 > 367.00	5.223	5.211	0.012	1.192	4183456	9.76	101	16342
4 MFS_M3	577.00 > 483.00	5.819	5.812	0.007	1.328	3316572	9.76	99.1	2618
5 MFS_N3	627.00 > 533.00	6.017	6.009	0.008	1.373	3877368	10.1	101	3788
6 MFS_M4	743.00 > 649.00	6.412	6.400	0.012	1.463	1531134	9.47	96.5	3204
7 MFS_N4	793.00 > 699.00	6.546	6.538	0.008	1.494	1737503	9.31	93.5	4362
8 MFS_N5	959.00 > 865.00	6.918	6.915	0.003	1.579	1789296	9.97	98.8	8143

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-02.d

Injection Date: 28-Jul-2022 10:14:45

Instrument ID: 30733

Lims ID: LCS 410-278618/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

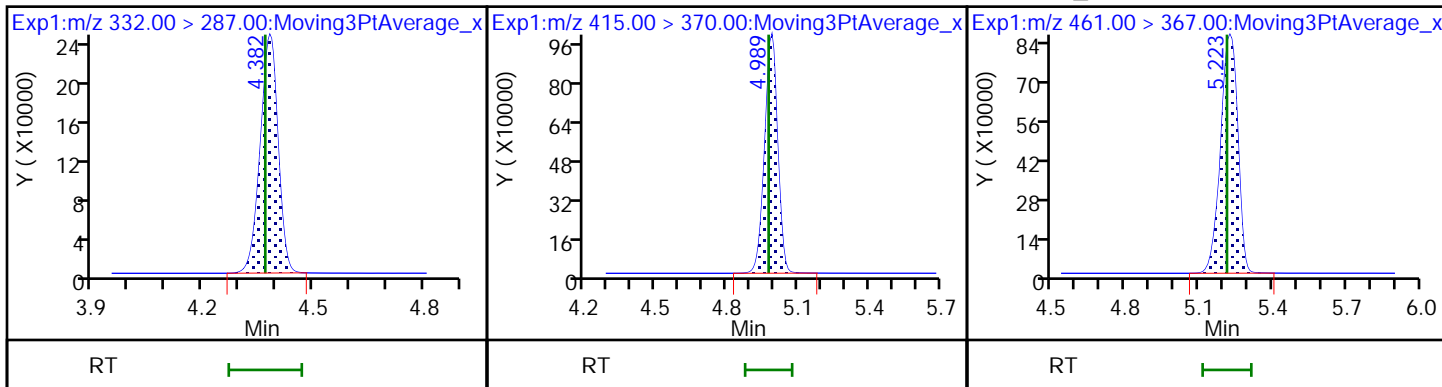
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

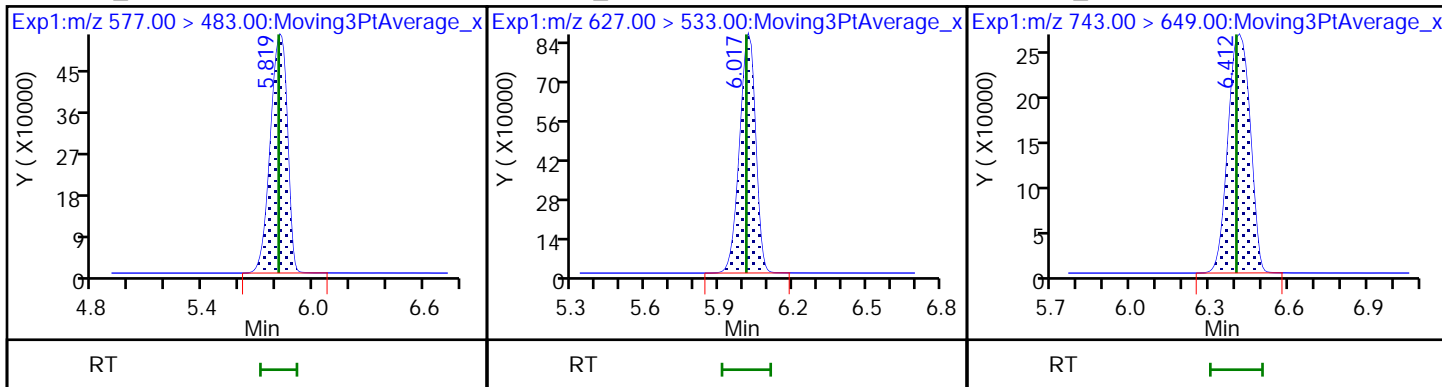
3 MFS_N2



4 MFS_M3

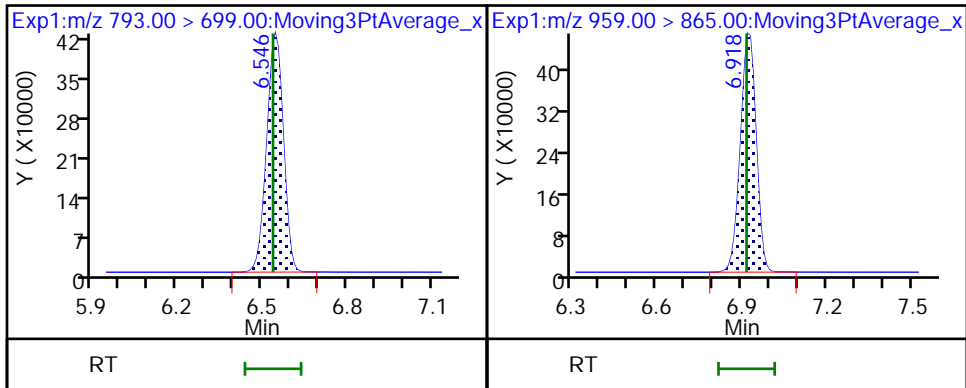
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279532/2-A

Matrix: Water Lab File ID: 22AUG5MFS-03.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 12:44

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	41.7		1.0	0.20
STL02874	MFS_M3	42.4		1.0	0.20
STL02875	MFS_N3	40.3		1.0	0.20
STL02876	MFS_M4	42.0		1.0	0.50
STL02877	MFS_N4	41.7		2.0	1.0
STL02888	MFS_N5	41.7		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-03.d
 Lims ID: LCS 410-279532/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Aug-2022 12:44:11 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279532/2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:02:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.398	4.400	-0.002	0.879	676486	4.46	89.2	3173
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3757354	5.00		6392
3 MFS_N2	461.00 > 367.00	5.258	5.252	0.006	1.195	3767457	10.4	108	19406
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.332	2924334	10.6	108	3602
5 MFS_N3	627.00 > 533.00	6.050	6.042	0.008	1.375	3206438	10.1	101	5736
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	1484476	10.5	107	6063
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	1665281	10.4	105	7868
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	1738944	10.4	103	12189

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-03.d

Injection Date: 05-Aug-2022 12:44:11

Instrument ID: 30733

Lims ID: LCS 410-279532/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

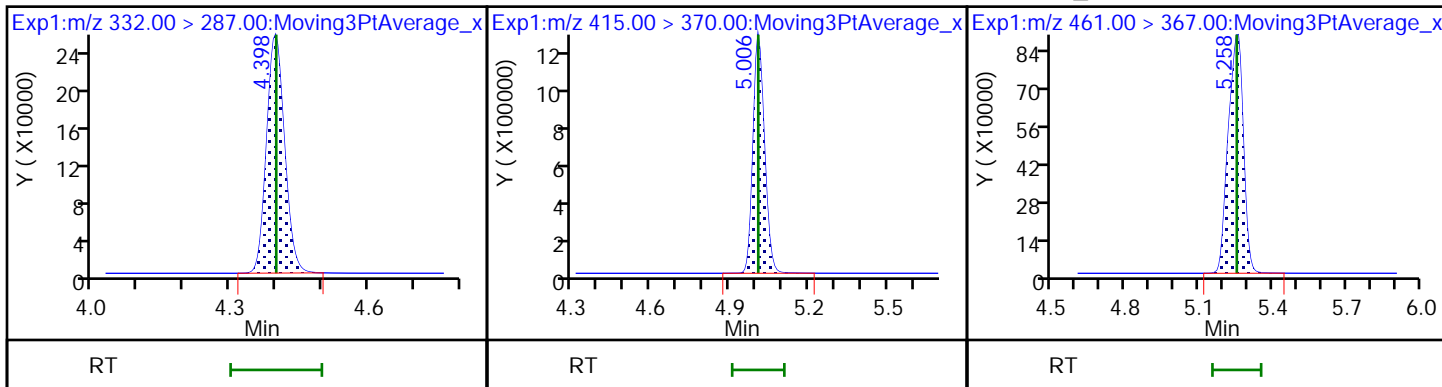
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

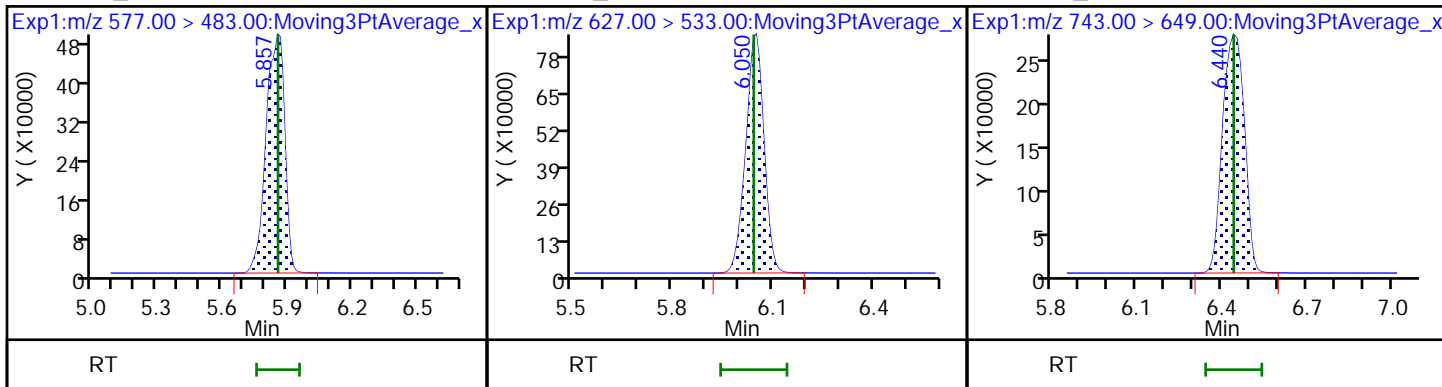
3 MFS_N2



4 MFS_M3

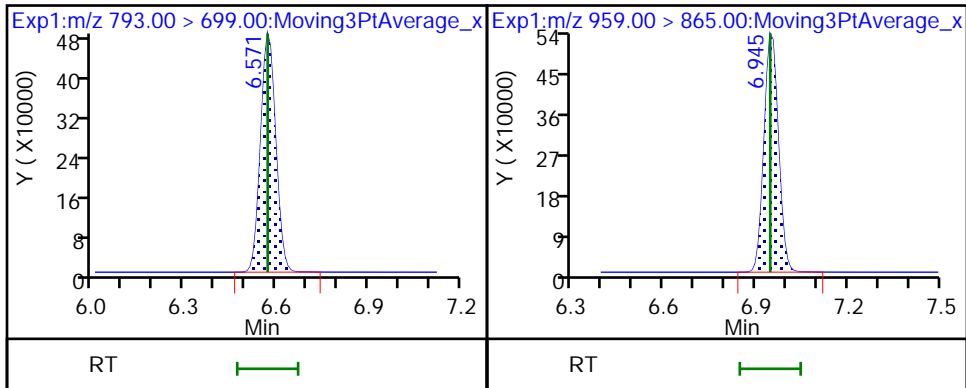
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S_MS MS Lab Sample ID: 410-90323-1 MS

Matrix: Water Lab File ID: 22JUL28MFS-05.d

Analysis Method: MFS Date Collected: 07/06/2022 13:40

Extraction Method: 3535 Date Extracted: 07/19/2022 09:31

Sample wt/vol: 299(mL) Date Analyzed: 07/28/2022 10:52

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280443 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	31.0		0.84	0.17
STL02874	MFS_M3	34.6		0.84	0.17
STL02875	MFS_N3	35.5		0.84	0.17
STL02876	MFS_M4	33.7		0.84	0.42
STL02877	MFS_N4	35.0		1.7	0.84
STL02888	MFS_N5	34.8		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	116		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-05.d
 Lims ID: 410-90323-B-1-B MS
 Client ID: MW-112S_MS
 Sample Type: MS
 Inject. Date: 28-Jul-2022 10:52:34 ALS Bottle#: 13 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-1-B MS
 Misc. Info.: Plate: 10 Rack: 1 410-0062896-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 12:14:20 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 12:14:01
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.374	4.369	0.005	0.879	752766	5.79	116	2212
* 2 13C2 PFOA	415.00 > 370.00	4.975	4.975	0.0		3091857	5.00		2420
3 MFS_N2	461.00 > 367.00	5.209	5.211	-0.002	1.191	3599406	9.27	96.1	10874
4 MFS_M3	577.00 > 483.00	5.811	5.812	-0.001	1.329	3184778	10.4	105	2465
5 MFS_N3	627.00 > 533.00	6.007	6.009	-0.002	1.373	3699923	10.6	106	3295
6 MFS_M4	743.00 > 649.00	6.400	6.400	0.0	1.463	1474193	10.1	103	2946
7 MFS_N4	793.00 > 699.00	6.539	6.538	0.001	1.495	1759735	10.5	105	4242
8 MFS_N5	959.00 > 865.00	6.913	6.915	-0.002	1.580	1688471	10.4	103	6656

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-05.d

Injection Date: 28-Jul-2022 10:52:34

Instrument ID: 30733

Lims ID: 410-90323-B-1-B MS

Client ID: MW-112S_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

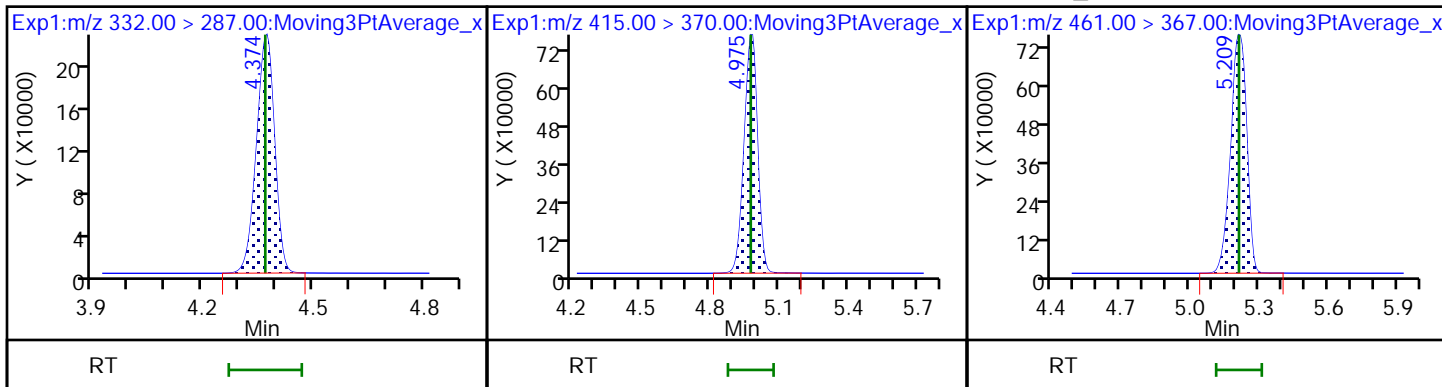
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

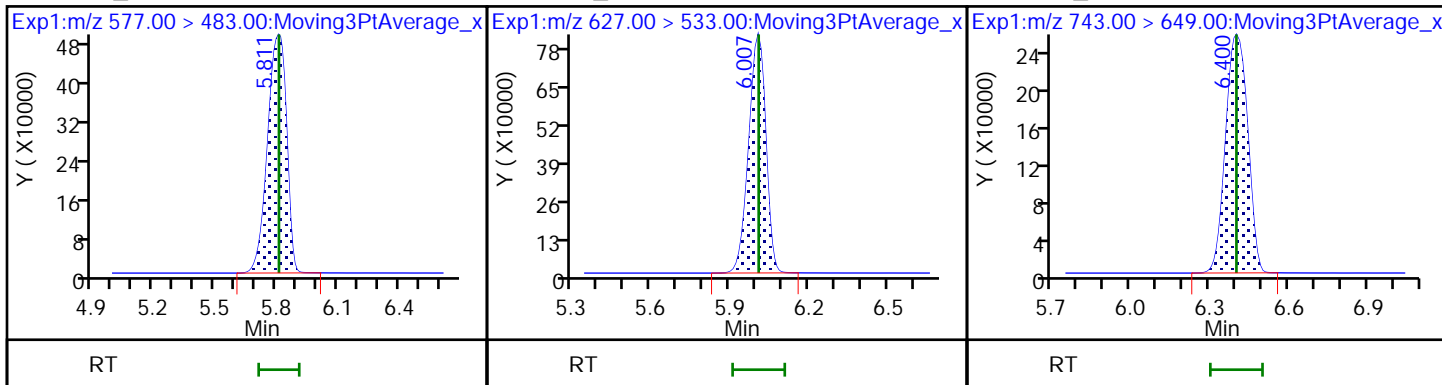
3 MFS_N2



4 MFS_M3

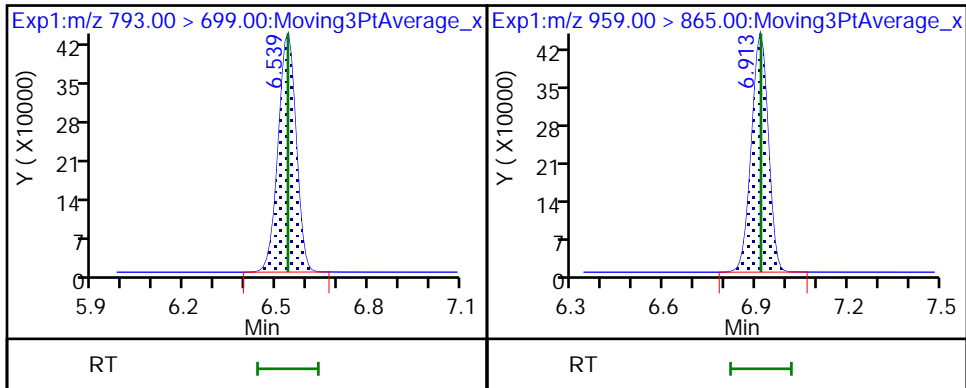
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112D_MS MS Lab Sample ID: 410-90323-2 MS

Matrix: Water Lab File ID: 22JUL27MFS-03.d

Analysis Method: MFS Date Collected: 07/06/2022 15:30

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 312 (mL) Date Analyzed: 07/28/2022 03:56

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	29.3		0.80	0.16
STL02874	MFS_M3	29.2		0.80	0.16
STL02875	MFS_N3	30.5		0.80	0.16
STL02876	MFS_M4	24.3		0.80	0.40
STL02877	MFS_N4	23.5		1.6	0.80
STL02888	MFS_N5	17.4		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-03.d
 Lims ID: 410-90323-B-2-B MS
 Client ID: MW-112D_MS
 Sample Type: MS
 Inject. Date: 28-Jul-2022 03:56:26 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-2-B MS RA
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 07:56:38 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:56:24
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.384	4.369	0.015	0.880	664937	4.87	97.3	1916
* 2 13C2 PFOA	415.00 > 370.00	4.984	4.975	0.009		3249030	5.00		2585
3 MFS_N2	461.00 > 367.00	5.221	5.211	0.010	1.191	3138055	9.15	94.9	15841
4 MFS_M3	577.00 > 483.00	5.814	5.812	0.002	1.326	2478364	9.11	92.5	2330
5 MFS_N3	627.00 > 533.00	6.012	6.009	0.003	1.371	2924332	9.50	94.9	3372
6 MFS_M4	743.00 > 649.00	6.401	6.400	0.001	1.460	983110	7.60	77.4	3609
7 MFS_N4	793.00 > 699.00	6.547	6.538	0.009	1.494	1104266	7.32	73.6	4325
8 MFS_N5	959.00 > 865.00	6.927	6.915	0.012	1.580	791132	5.44	53.9	5423

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-03.d

Injection Date: 28-Jul-2022 03:56:26

Instrument ID: 30733

Lims ID: 410-90323-B-2-B MS

Client ID: MW-112D_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

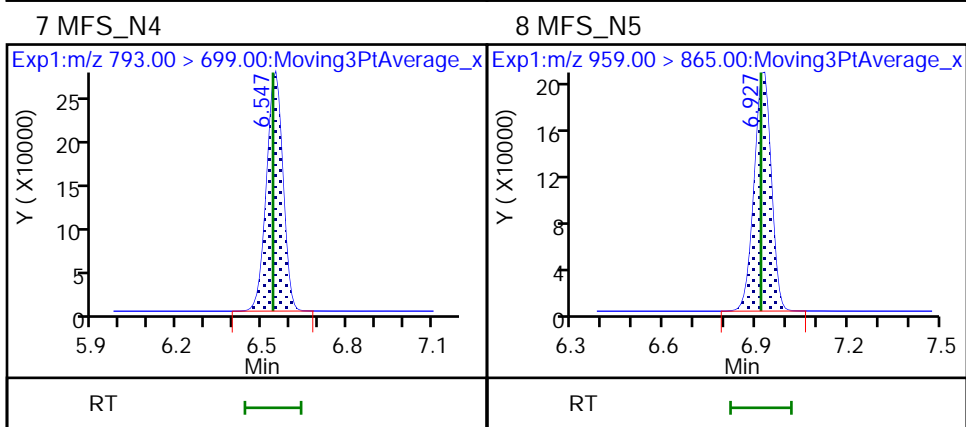
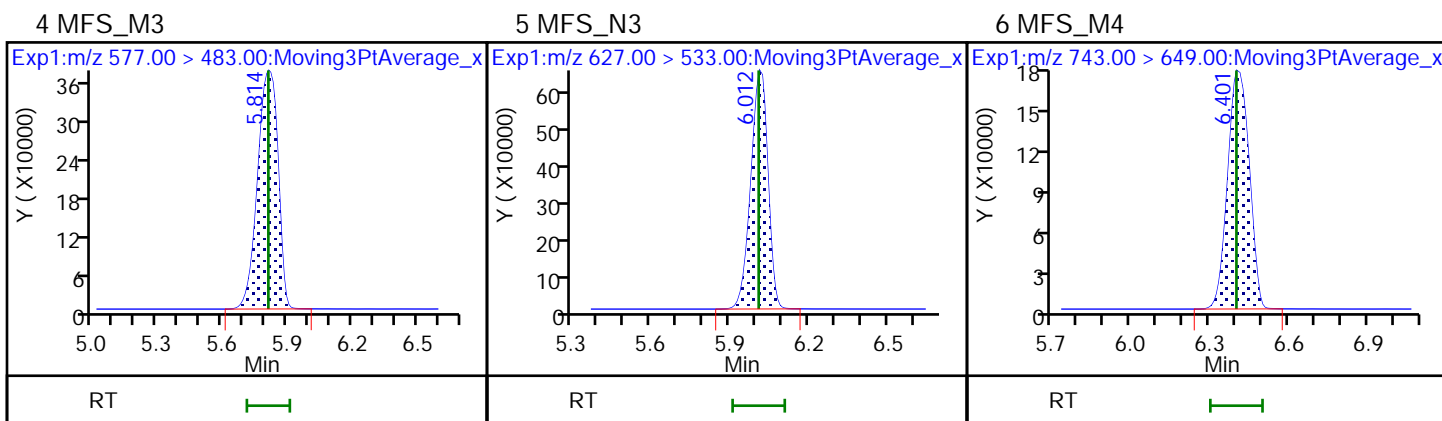
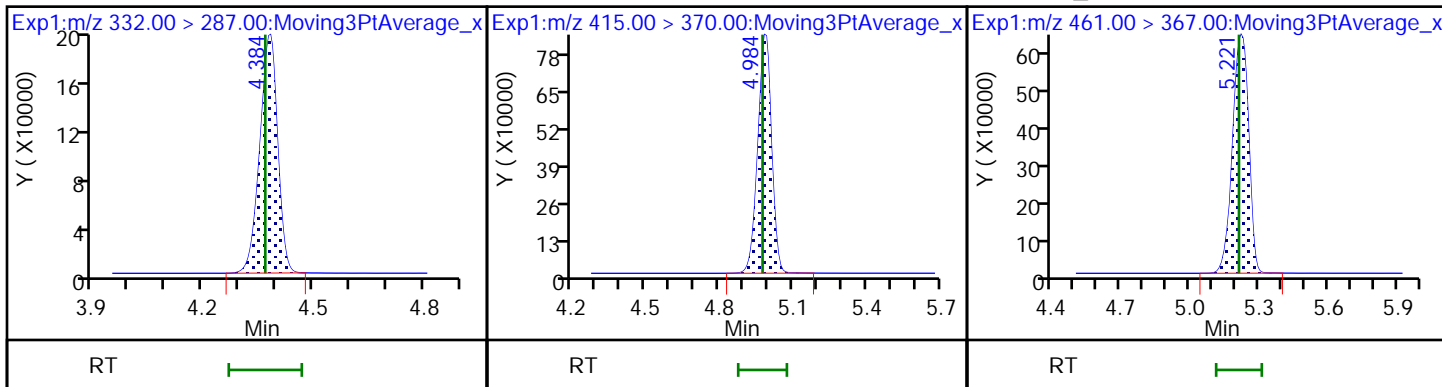
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106D_MS MS Lab Sample ID: 410-90323-7 MS

Matrix: Water Lab File ID: 22JUL25MFS-32.d

Analysis Method: MFS Date Collected: 07/07/2022 11:25

Extraction Method: 3535 Date Extracted: 07/22/2022 12:47

Sample wt/vol: 309.8(mL) Date Analyzed: 07/25/2022 20:32

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 279218 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	41.0		0.81	0.16
STL02874	MFS_M3	38.8		0.81	0.16
STL02875	MFS_N3	49.3		0.81	0.16
STL02876	MFS_M4	33.2		0.81	0.40
STL02877	MFS_N4	31.9		1.6	0.81
STL02888	MFS_N5	24.5		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-32.d
 Lims ID: 410-90323-B-7-B MS
 Client ID: MW-106D_MS
 Sample Type: MS
 Inject. Date: 25-Jul-2022 20:32:36 ALS Bottle#: 29 Worklist Smp#: 22
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-7-B MS
 Misc. Info.: Plate: 10 Rack: 1 410-0062619-022
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 27-Jul-2022 09:12:50 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1628

First Level Reviewer: JVK6 Date: 27-Jul-2022 09:11:36
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.370	4.369	0.001	0.877	601826	5.14	103	2624
* 2 13C2 PFOA	415.00 > 370.00	4.982	4.975	0.007		2783325	5.00		3982
3 MFS_N2	461.00 > 367.00	5.216	5.211	0.005	1.194	3939312	12.7	132	19717
4 MFS_M3	577.00 > 483.00	5.799	5.812	-0.013	1.327	2949616	12.0	122	3826
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.374	4251243	15.3	153	6165
6 MFS_M4	743.00 > 649.00	6.398	6.400	-0.002	1.464	1204621	10.3	105	4227
7 MFS_N4	793.00 > 699.00	6.544	6.538	0.006	1.497	1331474	9.88	99.3	5286
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.583	993577	7.59	75.2	8678

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220725-62619.b\22JUL25MFS-32.d

Injection Date: 25-Jul-2022 20:32:36

Instrument ID: 30733

Lims ID: 410-90323-B-7-B MS

Client ID: MW-106D_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 29

Worklist Smp#: 22

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

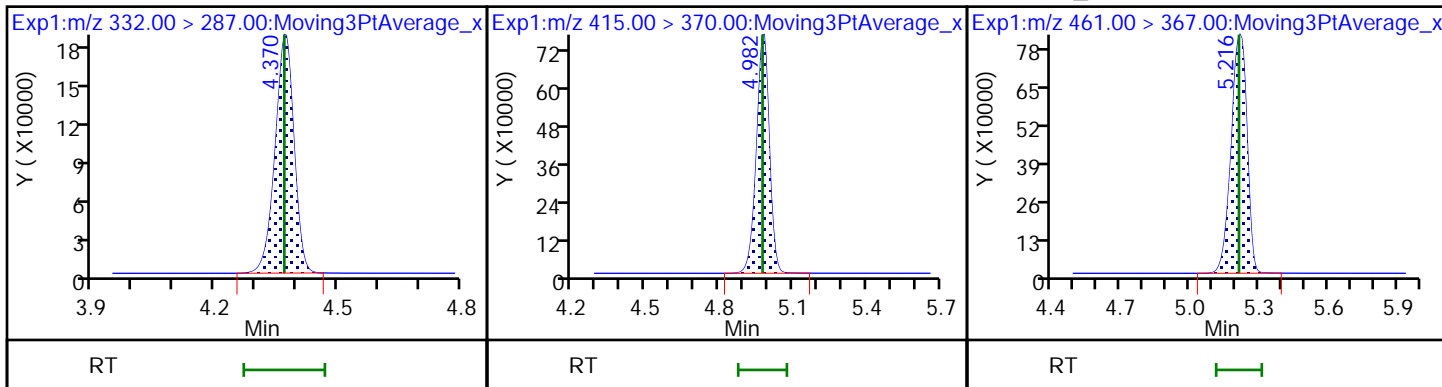
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

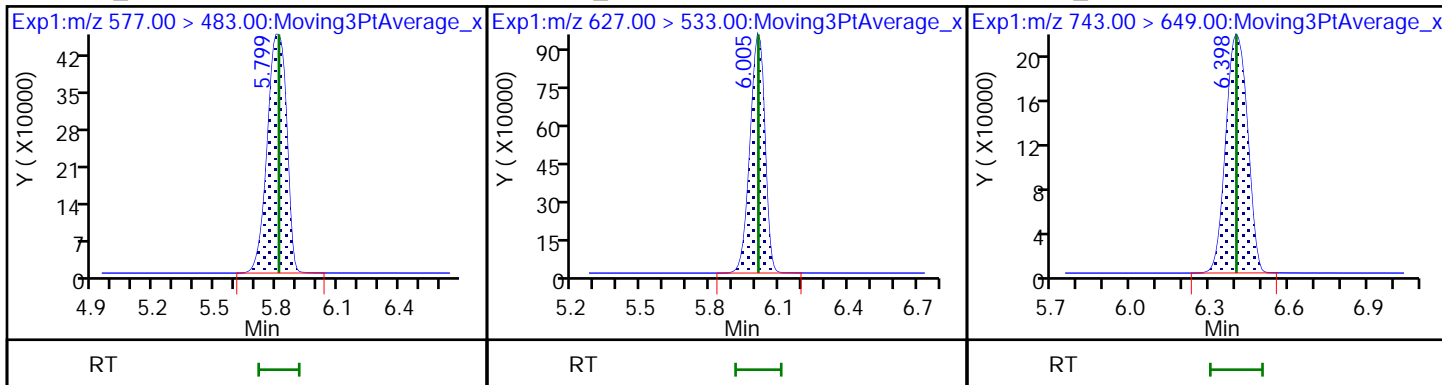
3 MFS_N2



4 MFS_M3

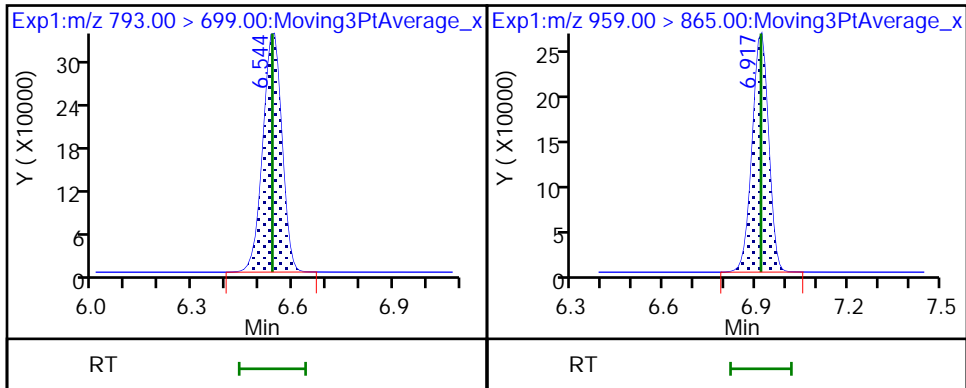
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S_MS MS Lab Sample ID: 410-90323-8 MS

Matrix: Water Lab File ID: 22JUL28MFS-03.d

Analysis Method: MFS Date Collected: 07/07/2022 11:40

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 291.4(mL) Date Analyzed: 07/28/2022 10:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280443 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	36.4		0.86	0.17
STL02874	MFS_M3	34.5		0.86	0.17
STL02875	MFS_N3	41.3		0.86	0.17
STL02876	MFS_M4	42.4		0.86	0.43
STL02877	MFS_N4	41.0		1.7	0.86
STL02888	MFS_N5	27.3		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-03.d
 Lims ID: 410-90323-B-8-B MS
 Client ID: MW-106S_MS
 Sample Type: MS
 Inject. Date: 28-Jul-2022 10:27:22 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-8-B MS
 Misc. Info.: Plate: 10 Rack: 1 410-0062896-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 12:14:20 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 11:10:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.372	4.369	0.003	0.878	685338	5.30	106	2141
* 2 13C2 PFOA	415.00 > 370.00	4.981	4.975	0.006		3072755	5.00		2535
3 MFS_N2	461.00 > 367.00	5.217	5.211	0.006	1.193	3750189	10.6	110	13967
4 MFS_M3	577.00 > 483.00	5.818	5.812	0.006	1.331	2817776	10.1	102	2108
5 MFS_N3	627.00 > 533.00	6.005	6.009	-0.004	1.374	3816053	12.0	120	3512
6 MFS_M4	743.00 > 649.00	6.396	6.400	-0.004	1.463	1644633	12.4	126	3711
7 MFS_N4	793.00 > 699.00	6.541	6.538	0.003	1.496	1812139	11.9	120	5573
8 MFS_N5	959.00 > 865.00	6.914	6.915	-0.001	1.581	1185810	7.97	78.9	6940

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-03.d

Injection Date: 28-Jul-2022 10:27:22

Instrument ID: 30733

Lims ID: 410-90323-B-8-B MS

Client ID: MW-106S_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

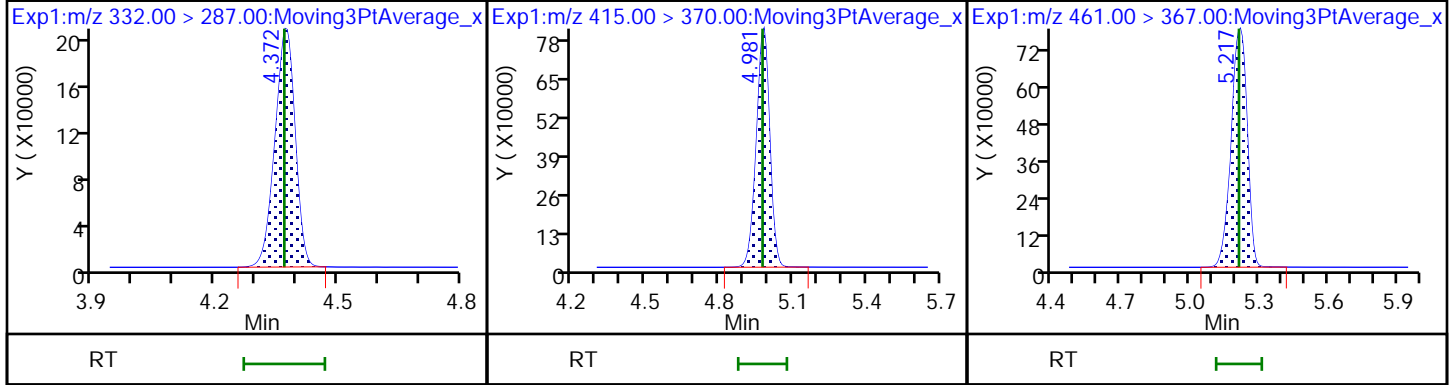
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

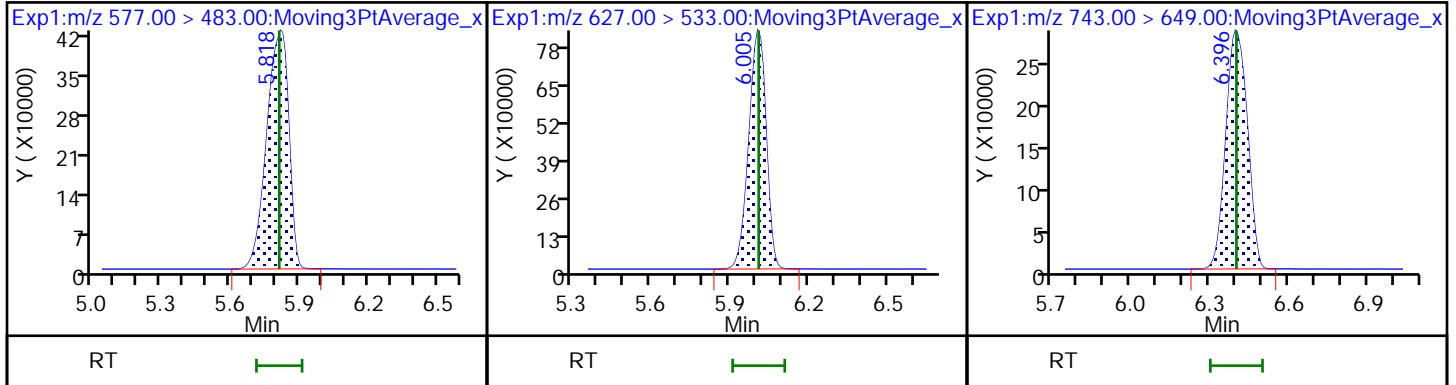
3 MFS_N2



4 MFS_M3

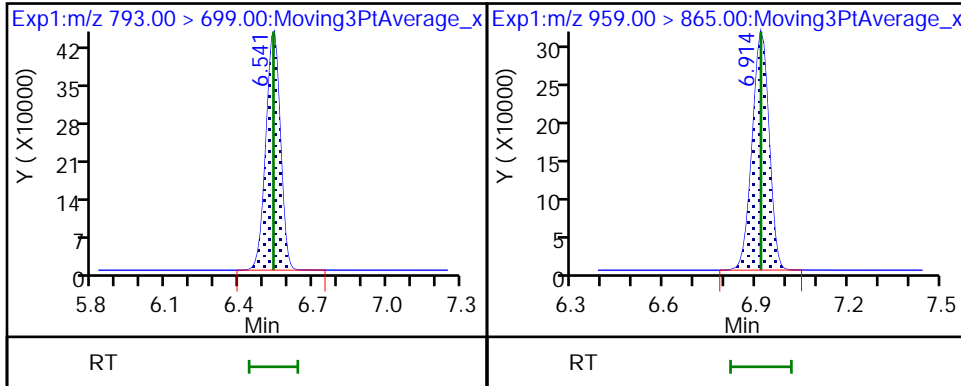
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102S_MS MS Lab Sample ID: 410-90323-15 MS

Matrix: Water Lab File ID: 22AUG5MFS-05.d

Analysis Method: MFS Date Collected: 07/07/2022 15:45

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 302.2 (mL) Date Analyzed: 08/05/2022 13:09

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	31.8		0.83	0.17
STL02874	MFS_M3	28.2		0.83	0.17
STL02875	MFS_N3	29.4		0.83	0.17
STL02876	MFS_M4	30.6		0.83	0.41
STL02877	MFS_N4	31.4		1.7	0.83
STL02888	MFS_N5	27.4		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-05.d
 Lims ID: 410-90323-B-15-B MS
 Client ID: MW-102S_MS
 Sample Type: MS
 Inject. Date: 05-Aug-2022 13:09:19 ALS Bottle#: 13 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-15-B MS
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:02:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.390	4.400	-0.010	0.878	657234	5.25	105	3219
* 2 13C2 PFOA	415.00 > 370.00	4.999	5.007	-0.008		3100510	5.00		3635
3 MFS_N2	461.00 > 367.00	5.243	5.252	-0.009	1.194	3377943	9.61	99.7	14350
4 MFS_M3	577.00 > 483.00	5.847	5.857	-0.011	1.332	2290215	8.53	86.6	2458
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.376	2755566	8.90	88.9	6027
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.467	1273743	9.26	94.3	4369
7 MFS_N4	793.00 > 699.00	6.561	6.571	-0.010	1.495	1473725	9.48	95.2	5977
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.582	1341136	8.28	82.0	9176

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-05.d

Injection Date: 05-Aug-2022 13:09:19

Instrument ID: 30733

Lims ID: 410-90323-B-15-B MS

Client ID: MW-102S_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

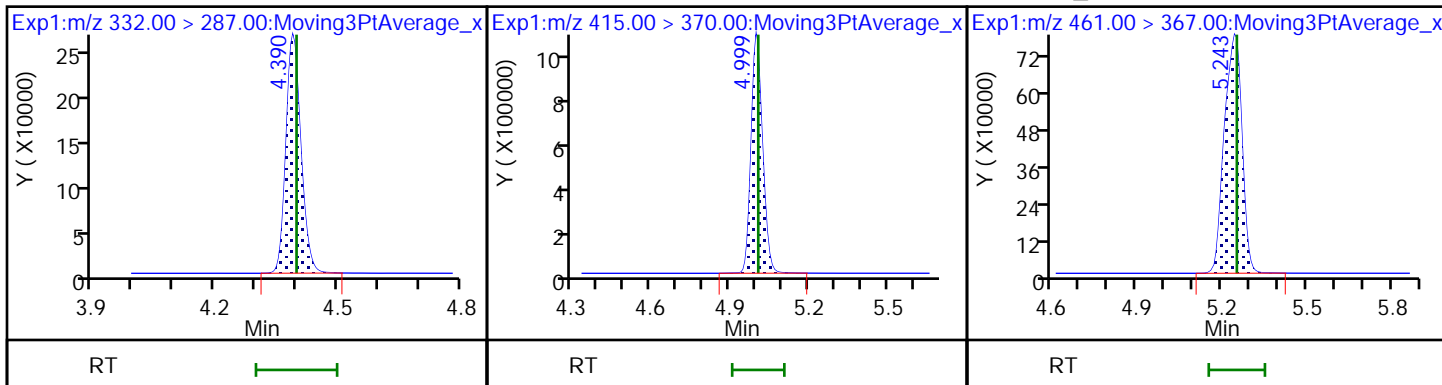
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

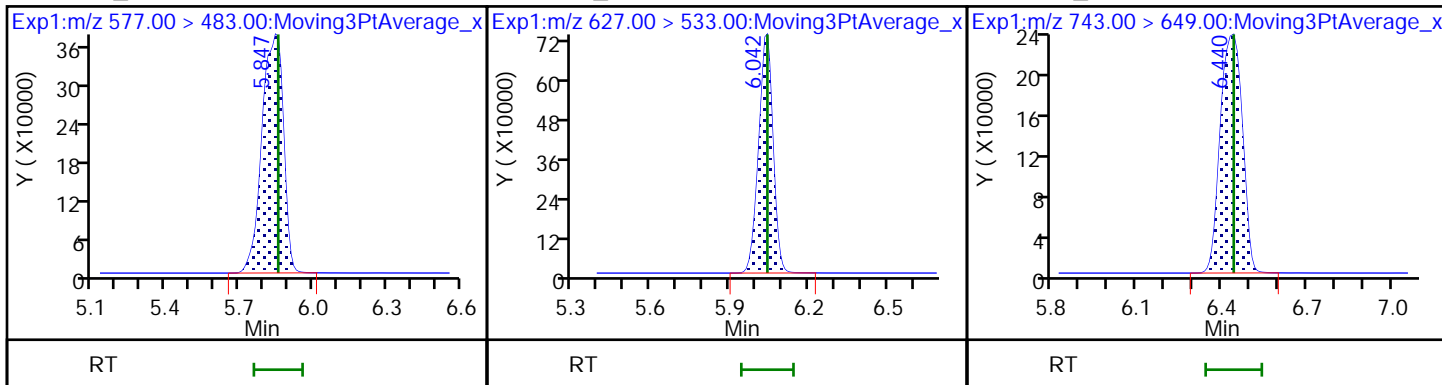
3 MFS_N2



4 MFS_M3

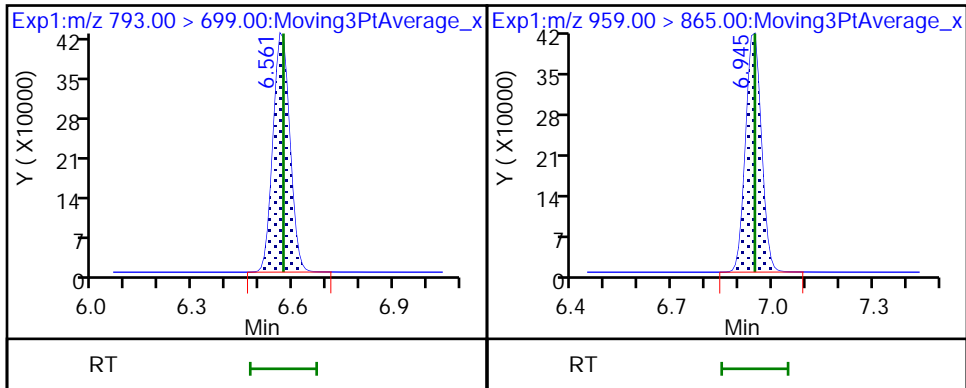
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112S_MSD MSD Lab Sample ID: 410-90323-1 MSD

Matrix: Water Lab File ID: 22JUL28MFS-06.d

Analysis Method: MFS Date Collected: 07/06/2022 13:45

Extraction Method: 3535 Date Extracted: 07/19/2022 09:31

Sample wt/vol: 297(mL) Date Analyzed: 07/28/2022 11:05

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280443 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	30.5		0.84	0.17
STL02874	MFS_M3	32.3		0.84	0.17
STL02875	MFS_N3	32.5		0.84	0.17
STL02876	MFS_M4	31.8		0.84	0.42
STL02877	MFS_N4	33.0		1.7	0.84
STL02888	MFS_N5	32.3		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	123		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-06.d
 Lims ID: 410-90323-B-1-C MSD
 Client ID: MW-112S_MSD
 Sample Type: MSD
 Inject. Date: 28-Jul-2022 11:05:08 ALS Bottle#: 14 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-1-C MSD
 Misc. Info.: Plate: 10 Rack: 1 410-0062896-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 12:14:20 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 12:14:15
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.376	4.369	0.007	0.878	866745	6.17	123	2250
* 2 13C2 PFOA	415.00 > 370.00	4.985	4.975	0.010		3341193	5.00		2492
3 MFS_N2	461.00 > 367.00	5.222	5.211	0.011	1.193	4048509	9.05	93.9	11443
4 MFS_M3	577.00 > 483.00	5.810	5.812	-0.002	1.327	3402377	9.60	97.5	2168
5 MFS_N3	627.00 > 533.00	6.015	6.009	0.006	1.374	3877129	9.66	96.5	2946
6 MFS_M4	743.00 > 649.00	6.407	6.400	0.007	1.464	1592311	9.45	96.3	2852
7 MFS_N4	793.00 > 699.00	6.543	6.538	0.005	1.495	1901787	9.80	98.4	4177
8 MFS_N5	959.00 > 865.00	6.918	6.915	0.003	1.581	1796427	9.59	95.0	5560

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-06.d

Injection Date: 28-Jul-2022 11:05:08

Instrument ID: 30733

Lims ID: 410-90323-B-1-C MSD

Client ID: MW-112S_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

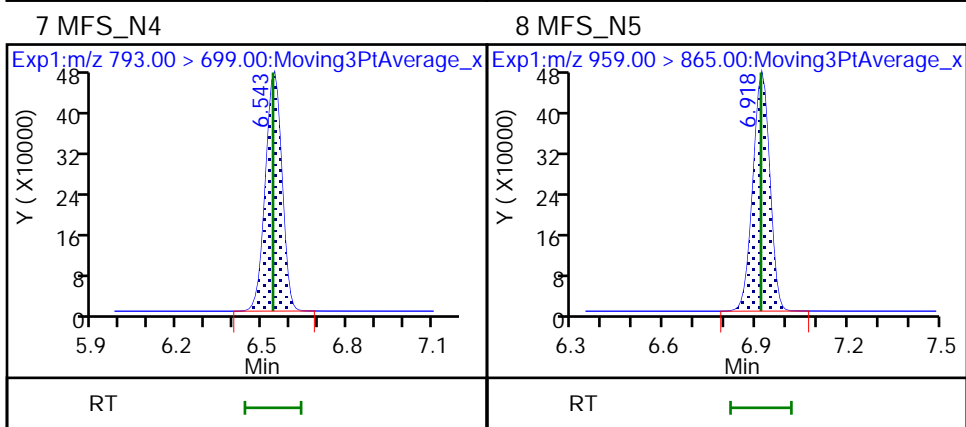
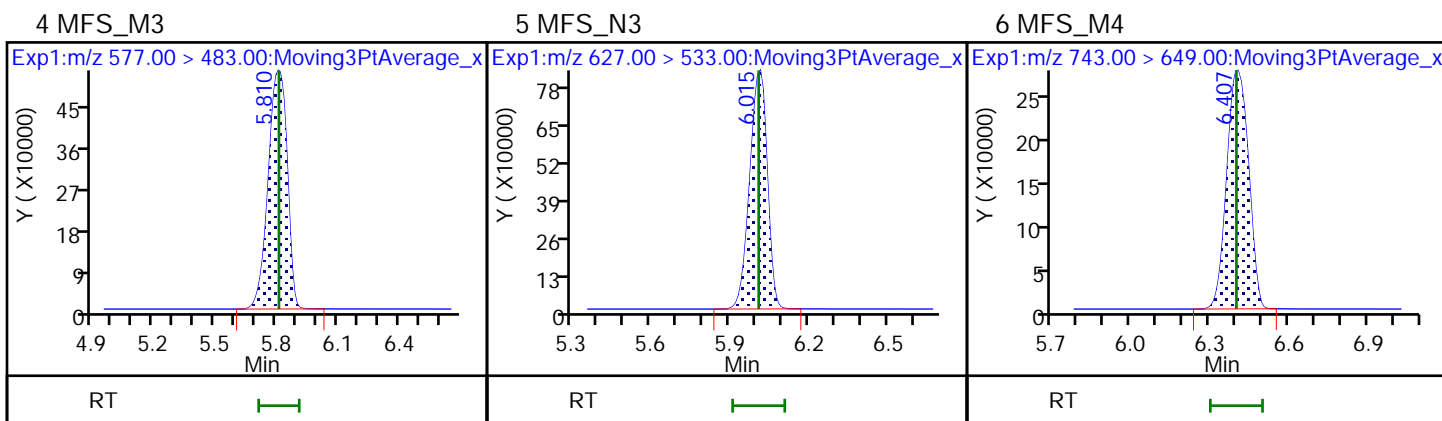
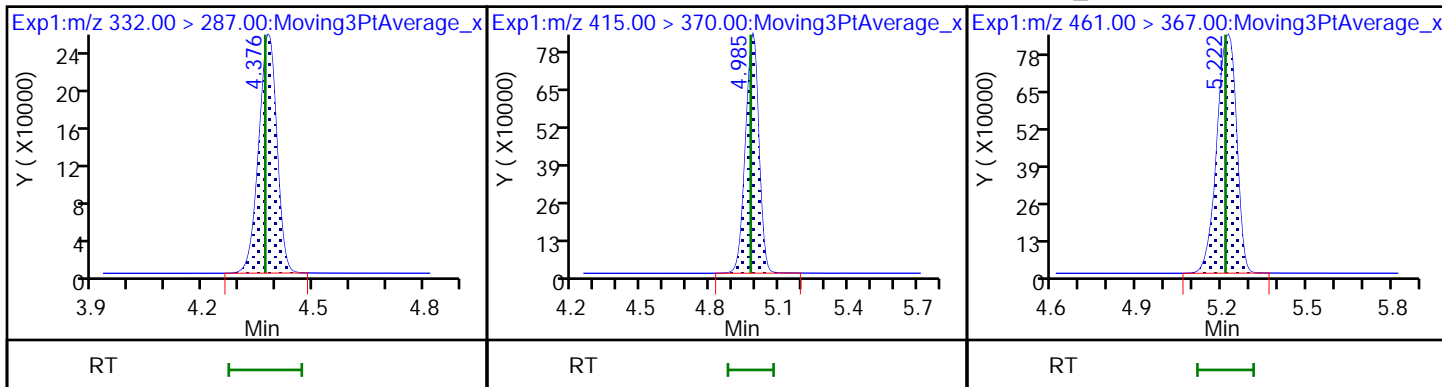
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-112D_MSD MSD Lab Sample ID: 410-90323-2 MSD

Matrix: Water Lab File ID: 22JUL27MFS-04.d

Analysis Method: MFS Date Collected: 07/06/2022 15:35

Extraction Method: 3535 Date Extracted: 07/22/2022 12:46

Sample wt/vol: 315.2 (mL) Date Analyzed: 07/28/2022 04:09

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	29.9		0.79	0.16
STL02874	MFS_M3	29.4		0.79	0.16
STL02875	MFS_N3	29.8		0.79	0.16
STL02876	MFS_M4	19.7		0.79	0.40
STL02877	MFS_N4	16.6		1.6	0.79
STL02888	MFS_N5	6.25		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-04.d
 Lims ID: 410-90323-B-2-C MSD
 Client ID: MW-112D_MSD
 Sample Type: MSD
 Inject. Date: 28-Jul-2022 04:09:03 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-2-C MSD RA
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 07:56:38 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:56:28
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.378	4.369	0.009	0.878	647156	5.17	103	1861
* 2 13C2 PFOA	415.00 > 370.00	4.987	4.975	0.012		2978607	5.00		2568
3 MFS_N2	461.00 > 367.00	5.224	5.211	0.013	1.193	3148594	9.43	97.8	14043
4 MFS_M3	577.00 > 483.00	5.811	5.812	-0.001	1.327	2455351	9.28	94.2	2375
5 MFS_N3	627.00 > 533.00	6.017	6.009	0.008	1.374	2814152	9.39	93.8	3301
6 MFS_M4	743.00 > 649.00	6.400	6.400	0.0	1.462	784225	6.22	63.4	2919
7 MFS_N4	793.00 > 699.00	6.545	6.538	0.007	1.495	777447	5.24	52.6	4312
8 MFS_N5	959.00 > 865.00	6.917	6.915	0.002	1.580	280758	1.97	19.5	3298

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-04.d

Injection Date: 28-Jul-2022 04:09:03

Instrument ID: 30733

Lims ID: 410-90323-B-2-C MSD

Client ID: MW-112D_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

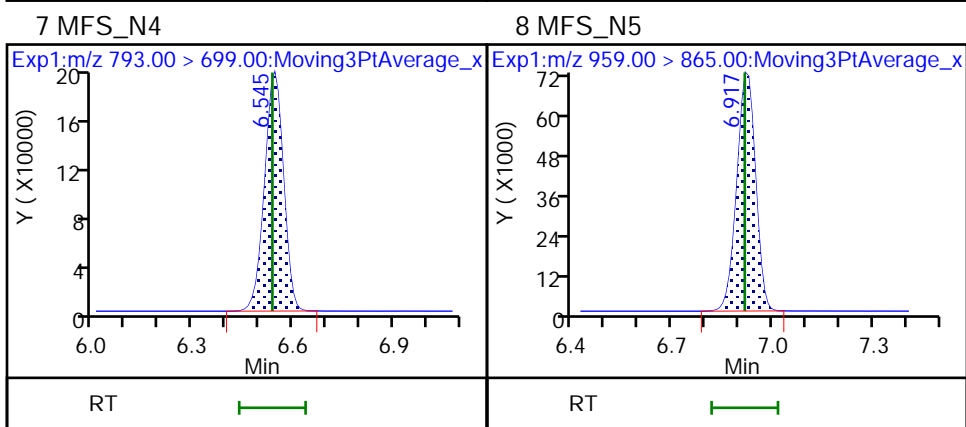
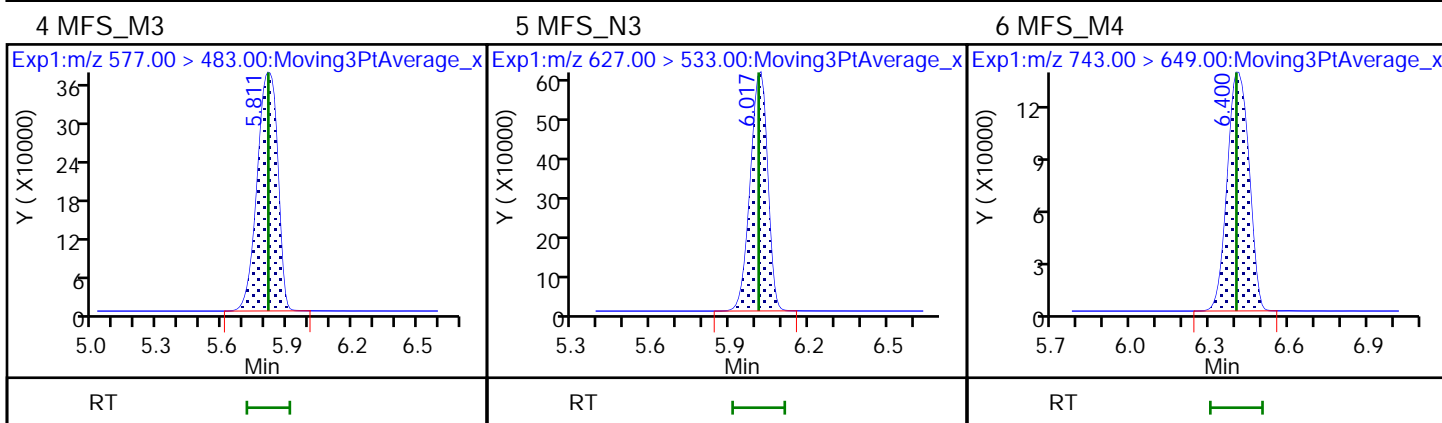
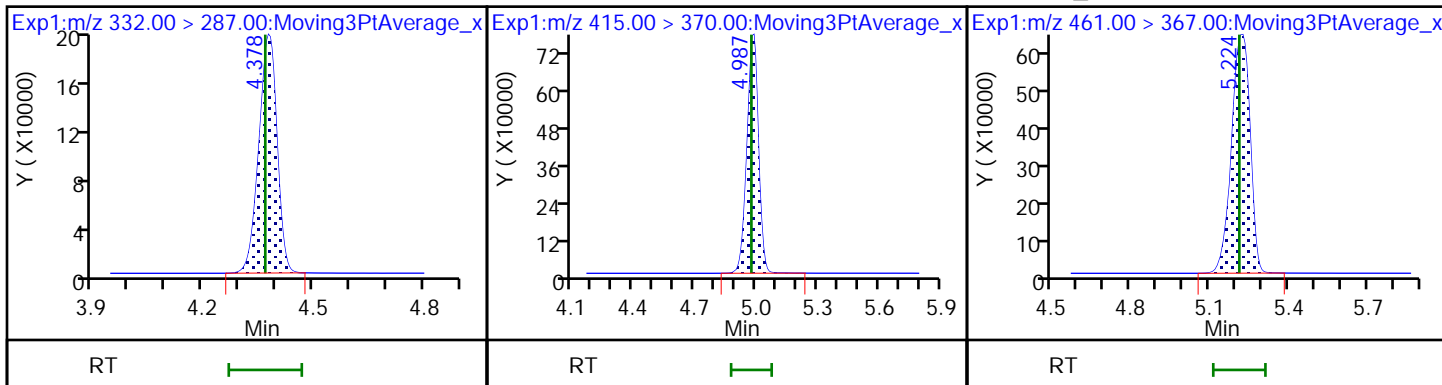
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106D_MSD MSD Lab Sample ID: 410-90323-7 MSD

Matrix: Water Lab File ID: 22JUL27MFS-06.d

Analysis Method: MFS Date Collected: 07/07/2022 11:30

Extraction Method: 3535 Date Extracted: 07/22/2022 12:47

Sample wt/vol: 289.9(mL) Date Analyzed: 07/28/2022 04:34

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280074 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	40.4		0.86	0.17
STL02874	MFS_M3	37.0		0.86	0.17
STL02875	MFS_N3	46.3		0.86	0.17
STL02876	MFS_M4	33.8		0.86	0.43
STL02877	MFS_N4	32.4		1.7	0.86
STL02888	MFS_N5	28.7		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-06.d
 Lims ID: 410-90323-B-7-C MSD
 Client ID: MW-106D_MSD
 Sample Type: MSD
 Inject. Date: 28-Jul-2022 04:34:15 ALS Bottle#: 13 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-7-C MSD RA
 Misc. Info.: Plate: 10 Rack: 1 410-0062809-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 05:49:13 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 07:56:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.372	4.369	0.003	0.878	672832	4.86	97.2	2074
* 2 13C2 PFOA	415.00 > 370.00	4.978	4.975	0.003		3293519	5.00		2644
3 MFS_N2	461.00 > 367.00	5.215	5.211	0.004	1.193	4062466	11.7	122	16642
4 MFS_M3	577.00 > 483.00	5.799	5.812	-0.013	1.326	2948318	10.7	109	2581
5 MFS_N3	627.00 > 533.00	6.006	6.009	-0.003	1.374	4170397	13.4	134	3588
6 MFS_M4	743.00 > 649.00	6.399	6.400	-0.001	1.464	1280059	9.79	99.7	4190
7 MFS_N4	793.00 > 699.00	6.535	6.538	-0.003	1.495	1418159	9.39	94.4	4543
8 MFS_N5	959.00 > 865.00	6.909	6.915	-0.006	1.580	1212432	8.31	82.3	8365

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220727-62809.b\22JUL27MFS-06.d

Injection Date: 28-Jul-2022 04:34:15

Instrument ID: 30733

Lims ID: 410-90323-B-7-C MSD

Client ID: MW-106D_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

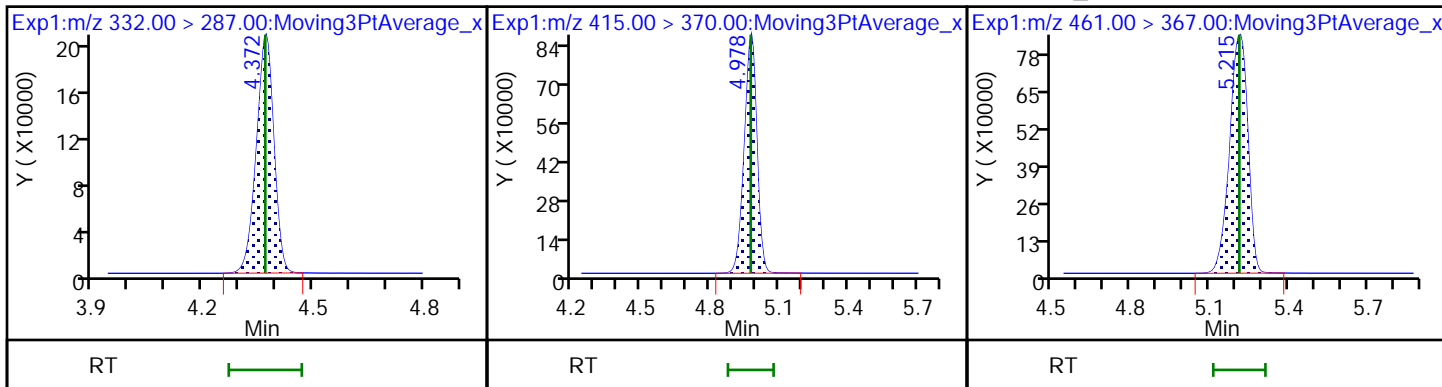
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

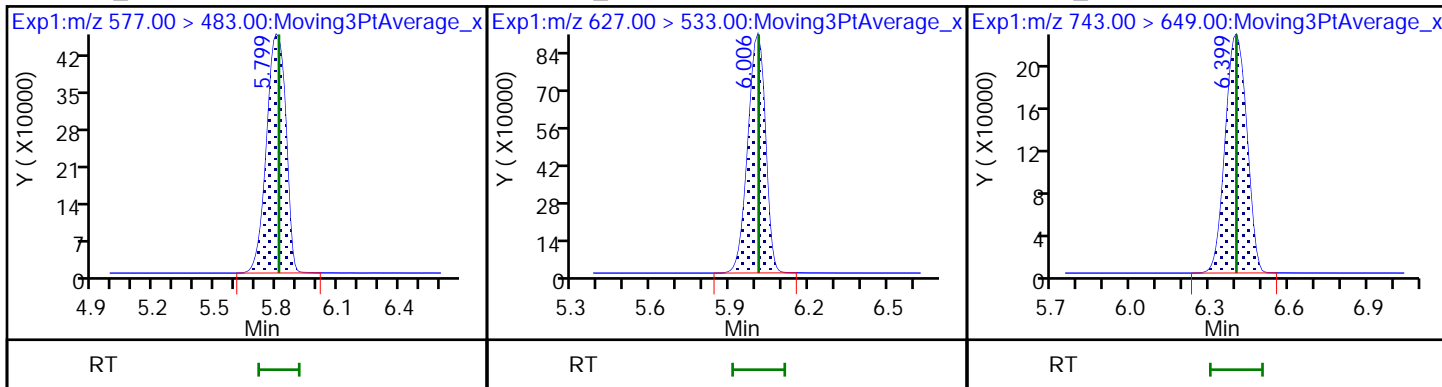
3 MFS_N2



4 MFS_M3

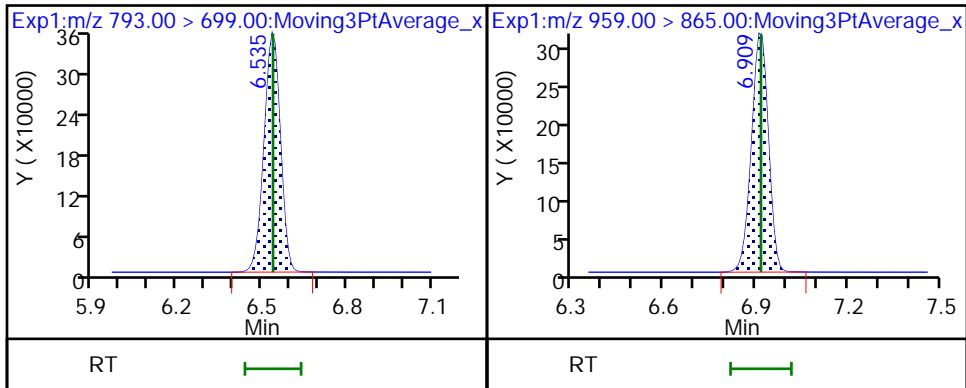
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-106S_MSD MSD Lab Sample ID: 410-90323-8 MSD

Matrix: Water Lab File ID: 22JUL28MFS-04.d

Analysis Method: MFS Date Collected: 07/07/2022 11:45

Extraction Method: 3535 Date Extracted: 07/22/2022 12:49

Sample wt/vol: 290.5(mL) Date Analyzed: 07/28/2022 10:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 280443 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	36.3		0.86	0.17
STL02874	MFS_M3	33.2		0.86	0.17
STL02875	MFS_N3	39.7		0.86	0.17
STL02876	MFS_M4	39.4		0.86	0.43
STL02877	MFS_N4	37.9		1.7	0.86
STL02888	MFS_N5	33.3		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-04.d
 Lims ID: 410-90323-B-8-C MSD
 Client ID: MW-106S_MSD
 Sample Type: MSD
 Inject. Date: 28-Jul-2022 10:39:57 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-8-C MSD
 Misc. Info.: Plate: 10 Rack: 1 410-0062896-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 28-Jul-2022 12:14:20 Calib Date: 25-Jul-2022 11:27:11
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220725-62577.b\22JUL25MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1631

First Level Reviewer: JVK6 Date: 28-Jul-2022 11:43:02
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.378	4.369	0.009	0.879	652932	4.47	89.3	2333
* 2 13C2 PFOA	415.00 > 370.00	4.982	4.975	0.007		3476053	5.00		3336
3 MFS_N2	461.00 > 367.00	5.223	5.211	0.012	1.193	3553710	10.6	110	12096
4 MFS_M3	577.00 > 483.00	5.819	5.812	0.007	1.329	2573214	9.64	97.9	2071
5 MFS_N3	627.00 > 533.00	6.016	6.009	0.007	1.374	3485408	11.5	115	3820
6 MFS_M4	743.00 > 649.00	6.408	6.400	0.008	1.464	1451284	11.4	117	3556
7 MFS_N4	793.00 > 699.00	6.544	6.538	0.006	1.495	1601144	11.0	111	5105
8 MFS_N5	959.00 > 865.00	6.918	6.915	0.003	1.580	1364642	9.67	95.8	6898

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00364 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220728-62896.b\22JUL28MFS-04.d

Injection Date: 28-Jul-2022 10:39:57

Instrument ID: 30733

Lims ID: 410-90323-B-8-C MSD

Client ID: MW-106S_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

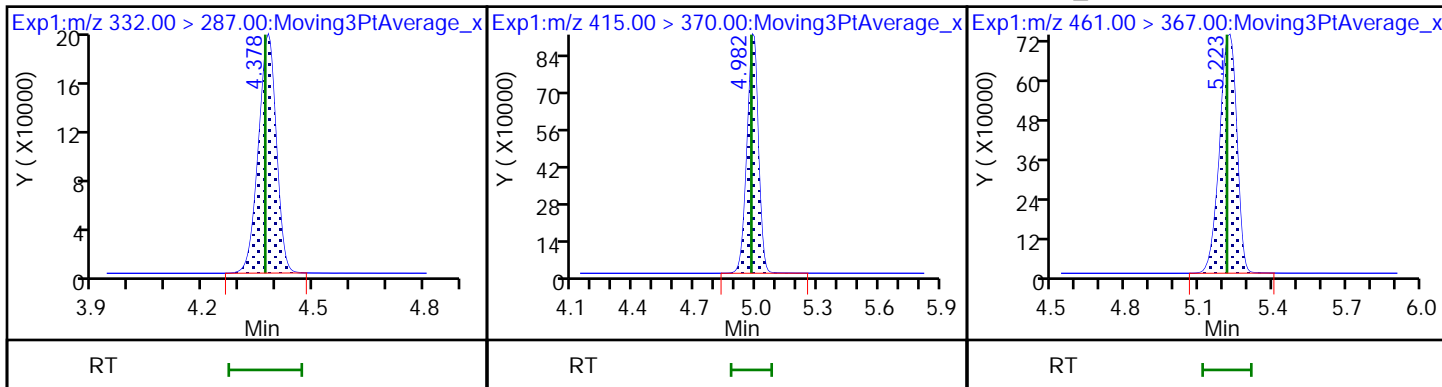
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

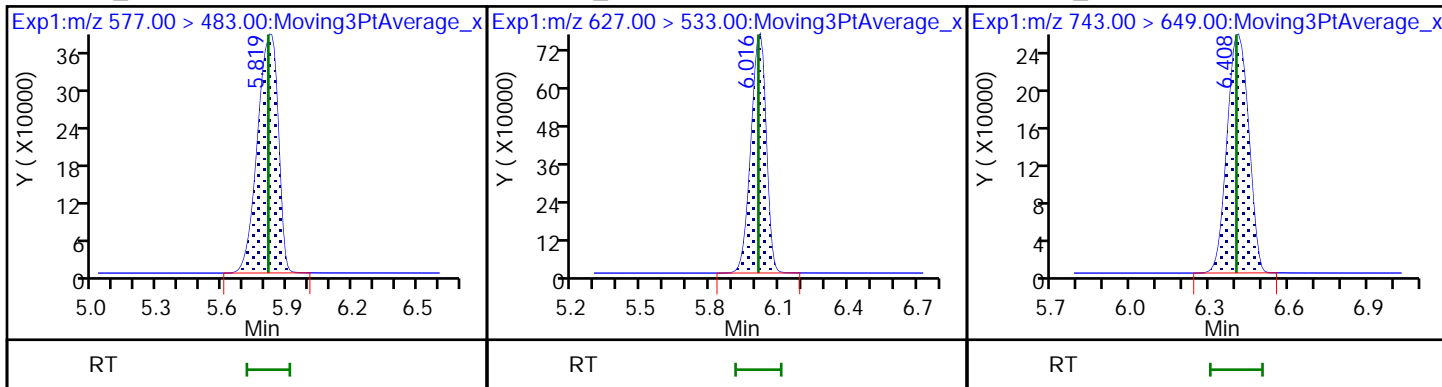
3 MFS_N2



4 MFS_M3

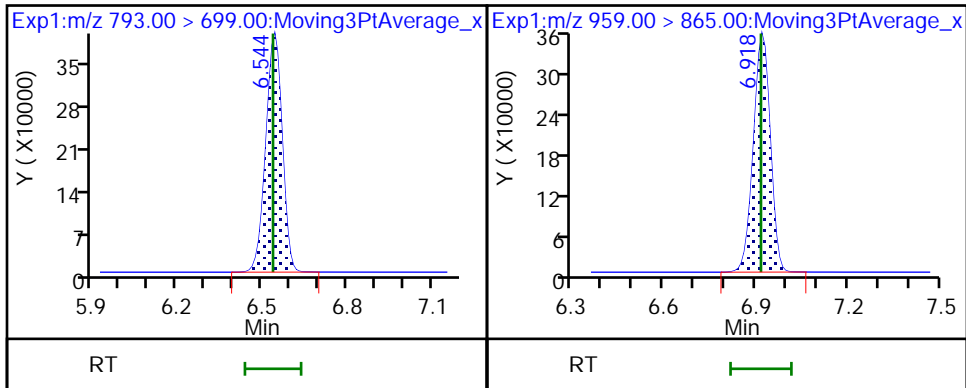
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90323-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102SMSD MSD Lab Sample ID: 410-90323-15 MSD

Matrix: Water Lab File ID: 22AUG5MFS-06.d

Analysis Method: MFS Date Collected: 07/07/2022 15:50

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 292.8 (mL) Date Analyzed: 08/05/2022 13:21

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	36.0		0.85	0.17
STL02874	MFS_M3	35.6		0.85	0.17
STL02875	MFS_N3	36.7		0.85	0.17
STL02876	MFS_M4	33.7		0.85	0.43
STL02877	MFS_N4	35.1		1.7	0.85
STL02888	MFS_N5	32.1		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-06.d
 Lims ID: 410-90323-B-15-C MSD
 Client ID: MW-102SMSD
 Sample Type: MSD
 Inject. Date: 05-Aug-2022 13:21:57 ALS Bottle#: 14 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90323-B-15-C MSD
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:03:03
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.399	4.400	-0.001	0.879	621175	4.91	98.2	3019
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3132492	5.00		3721
3 MFS_N2	461.00 > 367.00	5.251	5.252	-0.001	1.194	3497598	10.5	109	13798
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.332	2639517	10.4	106	2696
5 MFS_N3	627.00 > 533.00	6.050	6.042	0.008	1.375	3142941	10.7	107	5077
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	1284223	9.88	101	4030
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	1507448	10.3	103	5925
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	1437890	9.40	93.0	9929

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-06.d

Injection Date: 05-Aug-2022 13:21:57

Instrument ID: 30733

Lims ID: 410-90323-B-15-C MSD

Client ID: MW-102SMSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

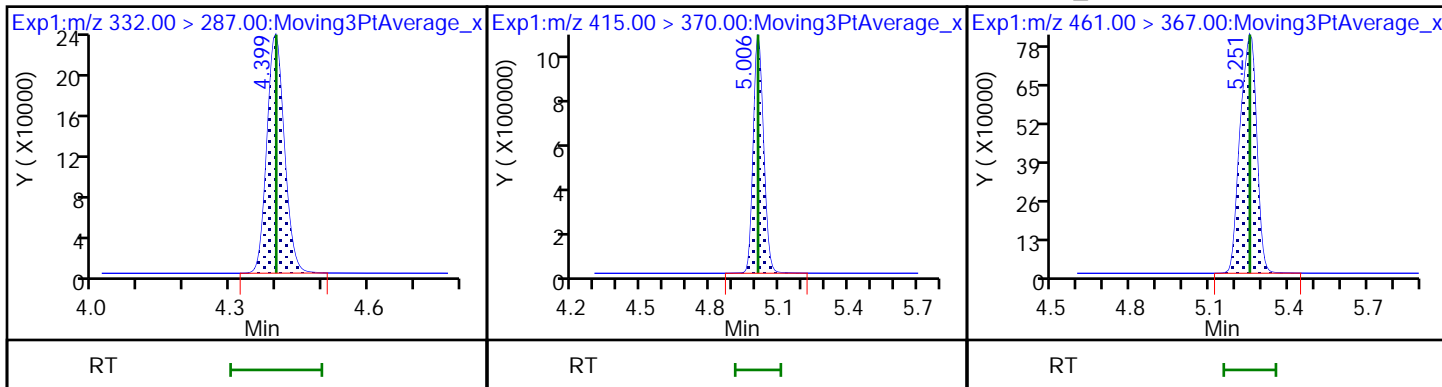
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

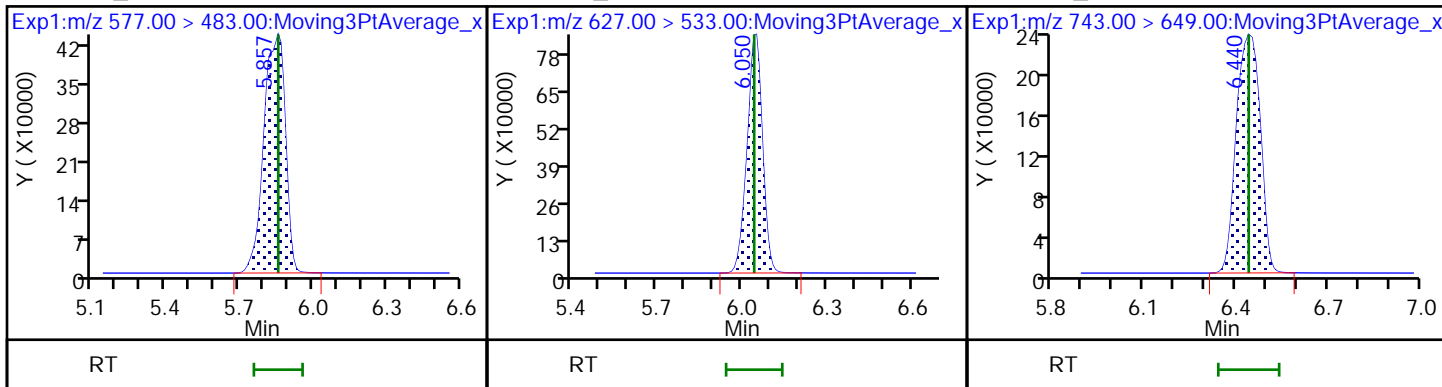
3 MFS_N2



4 MFS_M3

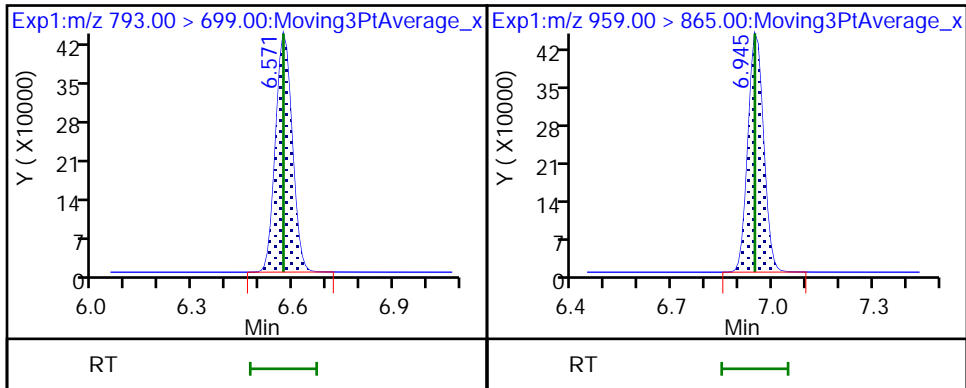
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 07/25/2022 10:10

Analysis Batch Number: 279067 End Date: 07/25/2022 12:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-279067/1		07/25/2022 10:10	1	22JUL25MFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-279067/2		07/25/2022 10:24	1	22JUL25MFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-279067/3		07/25/2022 10:36	1	22JUL25MFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-279067/4		07/25/2022 10:49	1	22JUL25MFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-279067/5		07/25/2022 11:01	1	22JUL25MFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-279067/6		07/25/2022 11:14	1	22JUL25MFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-279067/7		07/25/2022 11:27	1	22JUL25MFS-07.d	Gemini C18 50mm 3 (mm)
ICB 410-279067/8		07/25/2022 11:39	1	22JUL25MFS-08.d	Gemini C18 50mm 3 (mm)
ICV 410-279067/9		07/25/2022 11:52	1	22JUL25MFS-09.d	Gemini C18 50mm 3 (mm)
CCV 410-279067/10		07/25/2022 12:04	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 07/25/2022 16:20

Analysis Batch Number: 279218 End Date: 07/25/2022 23:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-279218/2		07/25/2022 16:20	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 16:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 16:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 16:58	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 17:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 17:23	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 17:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 17:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 18:01	1		Gemini C18 50mm 3 (mm)
CCV 410-279218/12		07/25/2022 18:26	1	22JUL25MFS-22.d	Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 18:39	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 18:51	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 19:04	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 19:17	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 19:29	1		Gemini C18 50mm 3 (mm)
MB 410-278617/1-A		07/25/2022 19:54	1	22JUL25MFS-29.d	Gemini C18 50mm 3 (mm)
LCS 410-278617/2-A		07/25/2022 20:07	1	22JUL25MFS-30.d	Gemini C18 50mm 3 (mm)
410-90323-7	MW-106D	07/25/2022 20:19	1	22JUL25MFS-31.d	Gemini C18 50mm 3 (mm)
410-90323-7 MS	MW-106D_MS MS	07/25/2022 20:32	1	22JUL25MFS-32.d	Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 20:45	1		Gemini C18 50mm 3 (mm)
CCV 410-279218/25		07/25/2022 21:10	1	22JUL25MFS-35.d	Gemini C18 50mm 3 (mm)
MB 410-278614/1-A		07/25/2022 21:23	1	22JUL25MFS-36.d	Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 21:35	1		Gemini C18 50mm 3 (mm)
410-90323-2	MW-112D	07/25/2022 21:48	1	22JUL25MFS-38.d	Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 22:00	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/25/2022 22:13	1		Gemini C18 50mm 3 (mm)
410-90323-3	MW-103S	07/25/2022 22:25	1	22JUL25MFS-41.d	Gemini C18 50mm 3 (mm)
410-90323-4	FB_070622	07/25/2022 22:38	1	22JUL25MFS-42.d	Gemini C18 50mm 3 (mm)
410-90323-5	EB_070622	07/25/2022 22:51	1	22JUL25MFS-43.d	Gemini C18 50mm 3 (mm)
410-90323-6	DUP1_070622	07/25/2022 23:03	1	22JUL25MFS-44.d	Gemini C18 50mm 3 (mm)
CCVL 410-279218/36		07/25/2022 23:28	1	22JUL25MFS-46.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 07/28/2022 03:29

Analysis Batch Number: 280074 End Date: 07/28/2022 08:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-280074/1		07/28/2022 03:29	1	22JUL27MFS-01.d	Gemini C18 50mm 3 (mm)
LCS 410-278614/2-A		07/28/2022 03:43	1	22JUL27MFS-02.d	Gemini C18 50mm 3 (mm)
410-90323-2 MS	MW-112D_MS MS	07/28/2022 03:56	1	22JUL27MFS-03.d	Gemini C18 50mm 3 (mm)
410-90323-2 MSD	MW-112D_MSD MSD	07/28/2022 04:09	1	22JUL27MFS-04.d	Gemini C18 50mm 3 (mm)
410-90323-7 MSD	MW-106D_MSD MSD	07/28/2022 04:34	1	22JUL27MFS-06.d	Gemini C18 50mm 3 (mm)
CCV 410-280074/7		07/28/2022 04:46	1	22JUL27MFS-07.d	Gemini C18 50mm 3 (mm)
MB 410-278618/1-A		07/28/2022 04:59	1	22JUL27MFS-08.d	Gemini C18 50mm 3 (mm)
ZZZZZ		07/28/2022 05:12	1		Gemini C18 50mm 3 (mm)
410-90323-8	MW-106S	07/28/2022 05:24	1	22JUL27MFS-10.d	Gemini C18 50mm 3 (mm)
ZZZZZ		07/28/2022 05:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/28/2022 05:49	1		Gemini C18 50mm 3 (mm)
410-90323-9	MW-103D	07/28/2022 06:02	1	22JUL27MFS-13.d	Gemini C18 50mm 3 (mm)
410-90323-10	MW-113D	07/28/2022 06:15	1	22JUL27MFS-14.d	Gemini C18 50mm 3 (mm)
410-90323-11	MW-113S	07/28/2022 06:27	1	22JUL27MFS-15.d	Gemini C18 50mm 3 (mm)
410-90323-12	DUP1_070722	07/28/2022 06:40	1	22JUL27MFS-16.d	Gemini C18 50mm 3 (mm)
410-90323-13	EB_070722	07/28/2022 06:52	1	22JUL27MFS-17.d	Gemini C18 50mm 3 (mm)
410-90323-14	DUP2_070722	07/28/2022 07:05	1	22JUL27MFS-18.d	Gemini C18 50mm 3 (mm)
CCV 410-280074/20		07/28/2022 07:30	1	22JUL27MFS-20.d	Gemini C18 50mm 3 (mm)
MB 410-277012/1-A		07/28/2022 07:43	1	22JUL27MFS-21.d	Gemini C18 50mm 3 (mm)
LCS 410-277012/2-A		07/28/2022 07:55	1	22JUL27MFS-22.d	Gemini C18 50mm 3 (mm)
410-90323-1	MW-112S	07/28/2022 08:08	1	22JUL27MFS-23.d	Gemini C18 50mm 3 (mm)
ZZZZZ		07/28/2022 08:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		07/28/2022 08:33	1		Gemini C18 50mm 3 (mm)
CCVL 410-280074/27		07/28/2022 08:46	1	22JUL27MFS-26.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 07/28/2022 10:00

Analysis Batch Number: 280443 End Date: 07/28/2022 11:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-280443/1		07/28/2022 10:00	1	22JUL28MFS-01.d	Gemini C18 50mm 3 (mm)
LCS 410-278618/2-A		07/28/2022 10:14	1	22JUL28MFS-02.d	Gemini C18 50mm 3 (mm)
410-90323-8 MS	MW-106S_MS MS	07/28/2022 10:27	1	22JUL28MFS-03.d	Gemini C18 50mm 3 (mm)
410-90323-8 MSD	MW-106S_MSD MSD	07/28/2022 10:39	1	22JUL28MFS-04.d	Gemini C18 50mm 3 (mm)
410-90323-1 MS	MW-112S_MS MS	07/28/2022 10:52	1	22JUL28MFS-05.d	Gemini C18 50mm 3 (mm)
410-90323-1 MSD	MW-112S_MSD MSD	07/28/2022 11:05	1	22JUL28MFS-06.d	Gemini C18 50mm 3 (mm)
CCV 410-280443/7		07/28/2022 11:17	1	22JUL28MFS-07.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 08:53

Analysis Batch Number: 283151 End Date: 08/05/2022 10:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-283151/1		08/05/2022 08:53	1	22AUG05MFSCAL-0 5.d	Gemini C18 50mm 3 (mm)
IC 410-283151/2		08/05/2022 09:05	1	22AUG05MFSCAL-0 6.d	Gemini C18 50mm 3 (mm)
IC 410-283151/3		08/05/2022 09:18	1	22AUG05MFSCAL-0 7.d	Gemini C18 50mm 3 (mm)
IC 410-283151/4		08/05/2022 09:31	1	22AUG05MFSCAL-0 8.d	Gemini C18 50mm 3 (mm)
ICISAV 410-283151/5		08/05/2022 09:43	1	22AUG05MFSCAL-0 9.d	Gemini C18 50mm 3 (mm)
IC 410-283151/6		08/05/2022 09:56	1	22AUG05MFSCAL-1 0.d	Gemini C18 50mm 3 (mm)
IC 410-283151/7		08/05/2022 10:08	1	22AUG05MFSCAL-1 1.d	Gemini C18 50mm 3 (mm)
ICB 410-283151/8		08/05/2022 10:21	1	22AUG05MFSCAL-1 2.d	Gemini C18 50mm 3 (mm)
ICV 410-283151/9		08/05/2022 10:34	1	22AUG05MFSCAL-1 3.d	Gemini C18 50mm 3 (mm)
CCV 410-283151/10		08/05/2022 10:46	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250 End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283250/1		08/05/2022 12:17	1	22AUG5MFS-01.d	Gemini C18 50mm 3 (mm)
MB 410-279532/1-A		08/05/2022 12:31	1	22AUG5MFS-02.d	Gemini C18 50mm 3 (mm)
LCS 410-279532/2-A		08/05/2022 12:44	1	22AUG5MFS-03.d	Gemini C18 50mm 3 (mm)
410-90323-15	MW-102S	08/05/2022 12:56	1	22AUG5MFS-04.d	Gemini C18 50mm 3 (mm)
410-90323-15 MS	MW-102S_MS MS	08/05/2022 13:09	1	22AUG5MFS-05.d	Gemini C18 50mm 3 (mm)
410-90323-15 MSD	MW-102SMSD MSD	08/05/2022 13:21	1	22AUG5MFS-06.d	Gemini C18 50mm 3 (mm)
CCV 410-283250/7		08/05/2022 13:34	1	22AUG5MFS-07.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:47	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:12	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:50	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:15	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/16		08/05/2022 15:27	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:40	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:30	1		Gemini C18 50mm 3 (mm)
CCVL 410-283250/23		08/05/2022 16:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:08	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:59	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/29		08/05/2022 18:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:15	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:28	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:41	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:53	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:06	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/39		08/05/2022 20:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:46	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90323-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250 End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		08/05/2022 21:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 22:12	1		Gemini C18 50mm 3 (mm)
CCVL 410-283250/50		08/05/2022 22:37	1		Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 277012 Batch Start Date: 07/19/22 09:31 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00012
MB 410-277012/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-277012/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-1	MW-112S	3535, MFS	T	324.28 g	27.55 g	296.7 mL	1 mL		0.1 mL
410-90323-B-1 MS	MW-112S_MS	3535, MFS	T	325.94 g	26.98 g	299 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-1 MSD	MW-112S_MSD	3535, MFS	T	324.13 g	27.13 g	297 mL	1 mL	0.1 mL	0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	11
Pipette/Syringe/Dispenser ID	P10-9, PFAS 4, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	3090607192233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277012

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:31:00AM

Method Code: 410-3535_28D-410

Batch End: **B410-277012**



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	Rcvd	PHs Adj1	Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB-410-277012/1 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
2	LCS-410-277012/2 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
3	410-90323-B-1 (MFS_IDA)	N/A (410-90323-1)	324.28 g 27.55 g	296.7 mL 1 mL				7/12/22	7_Days	4		
4	410-90323-B-1~MS (MFS_IDA)	N/A (410-90323-1)	325.94 g 26.98 g	299 mL 1 mL				7/12/22	7_Days	4		
5	410-90323-B-1~MSD (MFS_IDA)	N/A (410-90323-1)	324.13 g 27.13 g	297 mL 1 mL				7/12/22	7_Days	4		
6	MB-410-277012/6 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A	Concentration Blank	

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277012

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:31:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 11

Pipette/Syringe/Dispenser ID P10-9, PFAS 4, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 3090607192233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277012

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:31:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-277012

Analyst: Barnhart, Toby B

Batch Open: 7/19/2022 9:31:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-277012/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-277012/2	PFC_IN_00718	0.100 mL	1 mL		
LCS 410-277012/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-1	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-1 MS	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-1 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-1 MSD	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-1 MSD	PFC_SS_00012	0.100 mL	1 mL		
MB 410-277012/6	PFC_SS_00012	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
<i>Internal Standard</i>	<i>20ul</i>	<i>PFC-15-MOD-00305</i>

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 278614 Batch Start Date: 07/22/22 12:46 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00012
MB 410-278614/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-278614/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-2	MW-112D	3535, MFS	T	322.77 g	27.33 g	295.4 mL	1 mL		0.1 mL
410-90323-B-2	MW-112D_MS	3535, MFS	T	339.63 g	27.60 g	312 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-2	MW-112D_MSD	3535, MFS	T	342.73 g	27.52 g	315.2 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-3	MW-103S	3535, MFS	T	324.25 g	27.48 g	296.8 mL	1 mL		0.1 mL
410-90323-B-4	FB_070622	3535, MFS	T	303.69 g	28.10 g	275.6 mL	1 mL		0.1 mL
410-90323-B-5	EB_070622	3535, MFS	T	304.13 g	27.16 g	277 mL	1 mL		0.1 mL
410-90323-B-6	DUP1_070622	3535, MFS	T	321.05 g	27.74 g	293.3 mL	1 mL		0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	11, 8
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	4082207222233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278614

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:46:00PM

Method Code: 410-3535_28D-410

Batch End: B410-278614

7/18



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1	Adj2					
1	MB~410-278614/1 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
2	LCS~410-278614/2 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
3	410-90323-B-2 (MFS_IDA)	N/A (410-90323-1)	322.77 g	295.4 mL				7/12/22	7_Days	4		
			27.33 g	1 mL								
4	410-90323-B-2~MS (MFS_IDA)	N/A (410-90323-1)	339.63 g	312 mL				7/12/22	7_Days	4		
			27.60 g	1 mL								
5	410-90323-B-2~MSD (MFS_IDA)	N/A (410-90323-1)	342.73 g	315.2 mL				7/12/22	7_Days	4		
			27.52 g	1 mL								
6	410-90323-B-3 (MFS_IDA)	N/A (410-90323-1)	324.25 g	296.8 mL				7/12/22	7_Days	4		
			27.48 g	1 mL								
7	410-90323-B-4 (MFS_IDA)	N/A (410-90323-1)	303.69 g	275.6 mL				7/12/22	7_Days	4		
			28.10 g	1 mL								
8	410-90323-B-5 (MFS_IDA)	N/A (410-90323-1)	304.13 g	277 mL				7/12/22	7_Days	4		
			27.16 g	1 mL								
9	410-90323-B-6 (MFS_IDA)	N/A (410-90323-1)	321.05 g	293.3 mL				7/12/22	7_Days	4		
			27.74 g	1 mL								
10	MB~410-278614/10 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								

N-EVAP C; 40°C EB6 20094 7/24/22

reconstituted in 500 μL 20094 7/24/22

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278614

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:46:00PM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 11, 8

Pipette/Syringe/Dispenser ID P10-9, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 4082207222233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278614

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:46:00PM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278614

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:46:00PM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-278614/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-278614/2	PFC_IN_00718	0.100 mL	1 mL		
LCS 410-278614/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-2 MS	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-2 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-2 MSD	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-2 MSD	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-3	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-4	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-5	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-6	PFC_SS_00012	0.100 mL	1 mL		
MB 410-278614/10	PFC_SS_00012	0.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278614

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:46:00PM

Method Code: 410-3535_28D-410

Batch End:

Other Reagents:		
Reagent	Amount/Units	Lot#:
Internal Standard	20 ul	PFC-15-MOD-00364

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 278617 Batch Start Date: 07/22/22 12:47 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00012
MB 410-278617/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-278617/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-7	MW-106D	3535, MFS	T	339.43 g	27.79 g	311.6 mL	1 mL		0.1 mL
410-90323-B-7 MS	MW-106D_MS	3535, MFS	T	337.38 g	27.61 g	309.8 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-7 MSD	MW-106D_MSD	3535, MFS	T	317.54 g	27.64 g	289.9 mL	1 mL	0.1 mL	0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	11, 8
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	4082207222233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278617

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:47:00PM

Method Code: 410-3535_28D-410

Batch End: B410-278617

7/18



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs Rcvd Adj1 Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB-410-278617/1 N/A	N/A	300 g 50 g	250 mL 1 mL		N/A	N/A	N/A		
2	LCS-410-278617/2 N/A	N/A	300 g 50 g	250 mL 1 mL		N/A	N/A	N/A		
3	410-90323-B-7 (MFS_IDA)	N/A (410-90323-1)	339.43 g 27.79 g	311.6 mL 1 mL		7/12/22	7_Days	4		
4	410-90323-B-7~MS (MFS_IDA)	N/A (410-90323-1)	337.38 g 27.61 g	309.8 mL 1 mL		7/12/22	7_Days	4		
5	410-90323-B-7~MSD (MFS_IDA)	N/A (410-90323-1)	317.54 g 27.64 g	289.9 mL 1 mL		7/12/22	7_Days	4		
6	MB-410-278617/6 N/A	N/A	300 g 50 g	250 mL 1 mL		N/A	N/A	N/A		

N-EVAP C ; 40°C EBC 20094 7/24/22

Reconstituted by EBC 20094 7/24/22

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278617

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:47:00PM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID _____

First Start time _____

First End time _____

SPE Cartridge Type _____

SPE Cartridge Lot ID 6679410-03 _____

SPE Disk Type _____

Solid Phase Extraction Disk ID _____

Balance ID B629764122 _____

Manifold ID 11, 8 _____

Pipette/Syringe/Dispenser ID P10-9, PFAS 8 _____

Na2SO4 ID _____

Solvent Name 0.3%NH4OH:MeOH _____

Solvent Lot # 4082207222233A _____

Rinse Solvent Name _____

Rinse Solvent Lot _____

Acid Name _____

Acid ID _____

Analyst ID - Spike Analyst TB 30906 _____

Analyst ID - Spike Witness Analyst LB 44841 _____

Methanol ID 220054 _____

Milli-Q Reagent Water ID House A372 _____

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278617

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:47:00PM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278617

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:47:00PM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-278617/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-278617/2	PFC_IN_00718	0.100 mL	1 mL		
LCS 410-278617/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-7	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-7 MS	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-7 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-7 MSD	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-7 MSD	PFC_SS_00012	0.100 mL	1 mL		
MB 410-278617/6	PFC_SS_00012	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
<i>Internal Standard</i>	<i>20ul</i>	<i>PFC-IS-MOD-00364</i>

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 278618 Batch Start Date: 07/22/22 12:49 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00012
MB 410-278618/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-278618/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-8	MW-106S	3535, MFS	T	296.58 g	27.38 g	269.2 mL	1 mL		0.1 mL
410-90323-B-8 MS	MW-106S_MS	3535, MFS	T	318.99 g	27.62 g	291.4 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-8 MSD	MW-106S_MSD	3535, MFS	T	318.23 g	27.74 g	290.5 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-9	MW-103D	3535, MFS	T	338.08 g	27.85 g	310.2 mL	1 mL		0.1 mL
410-90323-B-10	MW-113D	3535, MFS	T	323.86 g	27.55 g	296.3 mL	1 mL		0.1 mL
410-90323-B-11	MW-113S	3535, MFS	T	292.29 g	27.63 g	264.7 mL	1 mL		0.1 mL
410-90323-B-12	DUP1_070722	3535, MFS	T	307.59 g	27.22 g	280.4 mL	1 mL		0.1 mL
410-90323-B-13	EB_070722	3535, MFS	T	290.34 g	28.21 g	262.1 mL	1 mL		0.1 mL
410-90323-B-14	DUP2_070722	3535, MFS	T	333.30 g	27.54 g	305.8 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-278618/1		3535, MFS							
LCS 410-278618/2		3535, MFS							
410-90323-B-8	MW-106S	3535, MFS	T						
410-90323-B-8 MS	MW-106S_MS	3535, MFS	T						
410-90323-B-8 MSD	MW-106S_MSD	3535, MFS	T						
410-90323-B-9	MW-103D	3535, MFS	T						
410-90323-B-10	MW-113D	3535, MFS	T						
410-90323-B-11	MW-113S	3535, MFS	T	Opaque, Particulate					
410-90323-B-12	DUP1_070722	3535, MFS	T						
410-90323-B-13	EB_070722	3535, MFS	T						
410-90323-B-14	DUP2_070722	3535, MFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 278618 Batch Start Date: 07/22/22 12:49 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6679410-03
Balance ID	B629764122
Manifold ID	11, 8
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	4082207222233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220054
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210123-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278618

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:49:00PM

Method Code: 410-3535_28D-410

Batch End: B410-278618



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1	Adj2					
1	MB~410-278618/1 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
2	LCS~410-278618/2 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
3	410-90323-B-8 (MFS_IDA)	N/A (410-90323-1)	296.58 g 27.38 g	269.2 mL 1 mL				7/12/22	7_Days	4		
4	410-90323-B-8~MS (MFS_IDA)	N/A (410-90323-1)	318.99 g 27.62 g	291.4 mL 1 mL				7/12/22	7_Days	4		
5	410-90323-B-8~MSD (MFS_IDA)	N/A (410-90323-1)	318.23 g 27.74 g	290.5 mL 1 mL				7/12/22	7_Days	4		
6	410-90323-B-9 (MFS_IDA)	N/A (410-90323-1)	338.08 g 27.85 g	310.2 mL 1 mL				7/12/22	7_Days	4		
7	410-90323-B-10 (MFS_IDA)	N/A (410-90323-1)	323.86 g 27.55 g	296.3 mL 1 mL				7/12/22	7_Days	4		
8	410-90323-B-11 (MFS_IDA)	N/A (410-90323-1)	292.29 g 27.63 g	264.7 mL 1 mL				7/12/22	7_Days	4	Opaque, Particulate	
9	410-90323-B-12 (MFS_IDA)	N/A (410-90323-1)	307.59 g 27.22 g	280.4 mL 1 mL				7/12/22	7_Days	4		
10	410-90323-B-13 (MFS_IDA)	N/A (410-90323-1)	290.34 g 28.21 g	262.1 mL 1 mL				7/12/22	7_Days	4		

Printed: 7/23/2022

N-EVAP C; 40°C

FB6 20094

7/26/22

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)



Batch Number: 410-278618

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:49:00PM

Method Code: 410-3535_28D-410

Batch End:

11	410-90323-B-14 (MFS_IDA)	N/A (410-90323-1)	333.30 g	305.8 mL			7/12/22	7_Days	4	 4 1 0 - 9 0 3 2 3 - B - 1 4 - A
			27.54 g	1 mL						
12	MB-410-278618/12 N/A	N/A	300 g	250 mL			N/A	N/A	N/A	 M B 4 1 0 - 2 7 8 6 1 8 / 1 2 - A
			50 g	1 mL						

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278618

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:49:00PM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-03

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID B629764122

Manifold ID 11, 8

Pipette/Syringe/Dispenser ID P10-9, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 4082207222233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220054

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278618

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:49:00PM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210123-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278618

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:49:00PM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-278618/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-278618/2	PFC_IN_00718	0.100 mL	1 mL		
LCS 410-278618/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-8	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-8 MS	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-8 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-8 MSD	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-8 MSD	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-9	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-10	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-11	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-12	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-13	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-14	PFC_SS_00012	0.100 mL	1 mL		
MB 410-278618/12	PFC_SS_00012	0.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-278618

Analyst: Barnhart, Toby B

Batch Open: 7/22/2022 12:49:00PM

Method Code: 410-3535_28D-410

Batch End:

Other Reagents:		
Reagent	Amount/Units	Lot#:
Internal Standard	20 ul	PPC-15-MOP-00365

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 279067 Batch Start Date: 07/25/22 10:10 Batch Analyst: Kruelle, Hannah K

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00010	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_MFS1 00009	PFC_STD_MFS2 00010	PFC_STD_MFS3 00008
IC 410-279067/1		MFS					200 uL		
IC 410-279067/2		MFS						200 uL	
IC 410-279067/3		MFS							200 uL
IC 410-279067/4		MFS							
ICISAV 410-279067/5		MFS							
IC 410-279067/6		MFS							
IC 410-279067/7		MFS							
ICB 410-279067/8		MFS			10 uL	50 uL			
ICV 410-279067/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00010	PFC_STD_MFS5 00008	PFC_STD_MFS6 00008	PFC_STD_MFS7 00008		
IC 410-279067/1		MFS							
IC 410-279067/2		MFS							
IC 410-279067/3		MFS							
IC 410-279067/4		MFS		200 uL					
ICISAV 410-279067/5		MFS			200 uL				
IC 410-279067/6		MFS				200 uL			
IC 410-279067/7		MFS					200 uL		
ICB 410-279067/8		MFS							
ICV 410-279067/9		MFS							

Batch Notes	
Mobil Phase ID	2732107222233A; 2732107222233B

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 279532 Batch Start Date: 07/26/22 09:35 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00012
MB 410-279532/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279532/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-15	MW-102S	3535, MFS	T	334.31 g	27.45 g	306.9 mL	1 mL		0.1 mL
410-90323-B-15 MS	MW-102S_MS	3535, MFS	T	329.60 g	27.41 g	302.2 mL	1 mL	0.1 mL	0.1 mL
410-90323-B-15 MSD	MW-102SMSD	3535, MFS	T	320.22 g	27.45 g	292.8 mL	1 mL	0.1 mL	0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	11, 2
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3NH ₄ OH:MeOH
Solvent Lot #	4547707262233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	EBG 20094
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279532

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:35:00AM

Method Code: 410-3535_28D-410

Batch End: B410-279532

7118, 7121, 7125



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1	Adj2					
1	MB~410-279532/1 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
2	LCS~410-279532/2 N/A	N/A	300 g	250 mL				N/A	N/A	N/A		
			50 g	1 mL								
3	410-90323-B-15 (MFS_IDA)	N/A (410-90323-1)	334.31 g	306.9 mL				7/12/22	7_Days	4		
			27.45 g	1 mL								
4	410-90323-B-15~MS (MFS_IDA)	N/A (410-90323-1)	329.60 g	302.2 mL				7/12/22	7_Days	4		
			27.41 g	1 mL								
5	410-90323-B-15~MSD (MFS_IDA)	N/A (410-90323-1)	320.22 g	292.8 mL				7/12/22	7_Days	4		
			27.45 g	1 mL								
6	410-90799-A-10 (MFS_IDA)	N/A (410-90799-1)	327.78 g	300.4 mL				7/15/22	7_Days	4		
			27.34 g	1 mL								
7	410-90799-A-11 (MFS_IDA)	N/A (410-90799-1)	325.63 g	298.3 mL				7/15/22	7_Days	4		
			27.33 g	1 mL								
8	410-90799-A-12 (MFS_IDA)	N/A (410-90799-1)	321.96 g	294.5 mL				7/15/22	7_Days	4		
			27.50 g	1 mL								
9	410-90799-A-13 (MFS_IDA)	N/A (410-90799-1)	297.29 g	270 mL				7/15/22	7_Days	4		
			27.25 g	1 mL								
10	410-90799-A-14 (MFS_IDA)	N/A (410-90799-1)	323.10 g	295.8 mL				7/15/22	7_Days	4		
			27.30 g	1 mL								

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)










Batch Number: 410-279532

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:35:00AM

Method Code: 410-3535_28D-410

Batch End:

11	410-90799-A-15 (MFS_IDA)	N/A (410-90799-1)	347.87 g	320.1 mL				7/15/22	7_Days	4	
			27.73 g	1 mL							
12	410-90799-A-16 (MFS_IDA)	N/A (410-90799-1)	323.40 g	295.8 mL				7/15/22	7_Days	4	
			27.56 g	1 mL							
13	410-90799-A-17 (MFS_IDA)	N/A (410-90799-1)	321.25 g	293.8 mL				7/15/22	7_Days	4	
			27.46 g	1 mL							
14	410-91186-A-1 (MFS_IDA)	N/A (410-91186-1)	304.23 g	276 mL				7/19/22	7_Days	4	
			28.24 g	1 mL							
15	410-91186-A-2 (MFS_IDA)	N/A (410-91186-1)	326.36 g	298.9 mL				7/19/22	7_Days	4	
			27.46 g	1 mL							
16	410-91186-A-3 (MFS_IDA)	N/A (410-91186-1)	322.54 g	294.8 mL				7/19/22	7_Days	4	Discolored, Particulate 
			27.73 g	1 mL							
17	410-91186-A-4 (MFS_IDA)	N/A (410-91186-1)	317.44 g	289.7 mL				7/19/22	7_Days	4	Discolored, Particulate 
			27.73 g	1 mL							
18	410-91186-A-5 (MFS_IDA)	N/A (410-91186-1)	312.43 g	285.1 mL				7/19/22	7_Days	4	
			27.34 g	1 mL							
19	MB~410-279532/19 N/A	N/A	300 g	250 mL				N/A	N/A	N/A	Concentration Blank 
			50 g	1 mL							

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279532

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:35:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID _____

First Start time _____

First End time _____

SPE Cartridge Type _____

SPE Cartridge Lot ID 6679410-02 _____

SPE Disk Type _____

Solid Phase Extraction Disk ID _____

Balance ID C125996498 _____

Manifold ID 11, 2 _____

Pipette/Syringe/Dispenser ID P10-9, PFAS 8 _____

Na2SO4 ID _____

Solvent Name 0.3NH%4OH:MeOH _____

Solvent Lot # 4547707262233A _____

Rinse Solvent Name _____

Rinse Solvent Lot _____

Acid Name _____

Acid ID _____

Analyst ID - Spike Analyst TB 30906 _____

Analyst ID - Spike Witness Analyst EBG 20094 _____

Methanol ID 220066 _____

Milli-Q Reagent Water ID House A372 _____

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279532

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:35:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210406-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279532

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:35:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-279532/1	PFC_SS_00012	0.100 mL	1 mL		
LCS 410-279532/2	PFC_IN_00718	0.100 mL	1 mL		
LCS 410-279532/2	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-15	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-15 MS	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-15 MS	PFC_SS_00012	0.100 mL	1 mL		
410-90323-B-15 MSD	PFC_IN_00718	0.100 mL	1 mL		
410-90323-B-15 MSD	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-10	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-11	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-12	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-13	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-14	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-15	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-16	PFC_SS_00012	0.100 mL	1 mL		
410-90799-A-17	PFC_SS_00012	0.100 mL	1 mL		
410-91186-A-1	PFC_SS_00012	0.100 mL	1 mL		
410-91186-A-2	PFC_SS_00012	0.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279532

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:35:00AM

Method Code: 410-3535_28D-410

Batch End:

410-91186-A-3	PFC_SS_00012	0.100 mL	1 mL		
410-91186-A-4	PFC_SS_00012	0.100 mL	1 mL		
410-91186-A-5	PFC_SS_00013	0.100 mL	1 mL		
MB 410-279532/19	PFC_SS_00013	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
<i>Int. std.</i>	<i>20ul</i>	<i>PFC-15-MOD-00370</i>

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90323-1

SDG No.: _____

Batch Number: 283151 Batch Start Date: 08/05/22 08:53 Batch Analyst: Swan, Chris

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00010	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_MFS1 00009	PFC_STD_MFS2 00010	PFC_STD_MFS3 00008
IC 410-283151/1		MFS					200 uL		
IC 410-283151/2		MFS						200 uL	
IC 410-283151/3		MFS							200 uL
IC 410-283151/4		MFS							
ICISAV 410-283151/5		MFS							
IC 410-283151/6		MFS							
IC 410-283151/7		MFS							
ICB 410-283151/8		MFS			10 uL	50 uL			
ICV 410-283151/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00010	PFC_STD_MFS5 00008	PFC_STD_MFS6 00008	PFC_STD_MFS7 00008		
IC 410-283151/1		MFS							
IC 410-283151/2		MFS							
IC 410-283151/3		MFS							
IC 410-283151/4		MFS		200 uL					
ICISAV 410-283151/5		MFS			200 uL				
IC 410-283151/6		MFS				200 uL			
IC 410-283151/7		MFS					200 uL		
ICB 410-283151/8		MFS							
ICV 410-283151/9		MFS							

Batch Notes	
Mobil Phase ID	2886208022233B; 2996208022233D

Basis	Basis Description

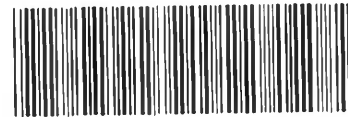
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins Lancaster Laboratories Environme

2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax 717-656-2681

Chain of Custody Record



eurofins Environment Testing America

410-90323 Chain of Custody

Client Information		Sampler: <u>MS/KO/MH/E</u>	Lab PM: Zanar, Elizabeth M																																																																																																													
Client Contact: Mr. Glenn Esler		Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com																																																																																																													
Company: Integral Consulting Inc		PWSID:	Analysis Requested																																																																																																													
Address: 319 SW Washington Ave Suite 1150		Due Date Requested:	<table border="1" style="width:100%"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																																																																																													
City: Portland		TAT Requested (days):																																																																																																														
State, Zip: OR, 97204		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																														
Phone: 503-943-3617(Tel)		PO #: CF1165.3101.01																																																																																																														
Email: gesler@integral-corp.com		WO #:																																																																																																														
Project Name: MFS/BFS		Project #: 41008576	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Y - Trizma Z - other (specify)																																																																																																													
Site:		SOW#:																																																																																																														

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	PH	BFS_IDA	MFS_IDA	MIN	MAX	Special Instructions/Note:
MW-112S	7-6-22	1335	G	Water				X		
MW-112S_MS		1340						X		
MW-112S_MSD		1345						X		
MW-112D		1525								
MW-112D_MS		1530						X		
MW-112D_MSD		1535						X		
MW-103S		1435								
FB-070622		1430								
EB-070622		1435								
DUPI_070622										
MW-106D	7-7-22	1120								

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify) <u>N S D E P Full</u>				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <u>[Signature]</u>		Date/Time: 7-7-22 / 1030	Company: <u>Integral</u>	Received by: <u>[Signature]</u>		Date/Time: 7/7/22 1630	Company: <u>Eurofins</u>
Relinquished by: <u>[Signature]</u>		Date/Time: 7/7/22 1835	Company:	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by: <u>[Signature]</u>		Date/Time: 7-7-22 1859	Company: <u>GUC</u>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <u>16.09</u>					

MP

Chain of Custody Record

Client Information		Sampler:		Lab PM Zanar, Elizabeth M		Carrier Tracking No(s)		COC No 410-60385-13447.1	
Client Contact: Mr Glenn Esler		Phone:		E-Mail Elizabeth.Zanar@et.eurofinsus.com		State of Origin:		Page Page 1 of 1	
Company Integral Consulting Inc		PWSID		Analysis Requested		Job #:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Y - Trizma Z - other (specify)	
Address: 319 SW Washington Ave Suite 1150		Due Date Requested:							
City Portland		TAT Requested (days):							
State, Zip OR, 97204		Compliance Project: Δ Yes Δ No							
Phone 503-943-3617(Tel)		PO #: CF1165.3101.01							
Email: gesler@integral-corp.com		WO #:							
Project Name MFS/BFS		Project #: 41008576		Field Filled Sample (Yes or No)		BFS_IDA, MFS_IDA		Total Number of Containers	
Site		SSOW#							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, D=soil, BT=Tissue, A=Air)	
						Preserv. Ion Code			
MW-106D_mS		7-7-22		1125		G		Water	
MW-106D_mSD				1130					
MW-106S				1135					
MW-106S_mS				1140					
MW-106S_mSD				1145					
MW-103D				1030					
MW-113D				1330					
MW-113S				1525					
DUPL_070722				—					
EB_070722				1205					
DUPL_070722				—					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify) USDEP Full					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 7-7-22/1630		Company: Integral		Received by: <i>[Signature]</i>		Date/Time: 7-7-22/1630	
Relinquished by: <i>[Signature]</i>		Date/Time: 7-7-22/1835		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time: 7-7-22/1859	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 16.0.9					

ME

Chain of Custody Record

Client Information		Sampler	Lab PM	Carrier Tracking No(s)	COC No:				
Client Contact: Mr. Glenn Esler		Phone	Zanar, Elizabeth M		410-60385-13447 1				
Company Integral Consulting Inc		PWSID:	E-Mail	State of Origin	Page: 301 301 3				
Address: 319 SW Washington Ave Suite 1150		Analysis Requested			Job #:				
City: Portland		Due Date Requested:	Total Number of Containers Field Filtered Sample (Yes or No) BFS_IDA, MFS_IDA						
State, Zip: OR, 97204		TAT Requested (days):							
Phone: 503-943-3617(Tel)		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Email: gesler@integral-corp.com		PO #: CF1165 3101.01							
Project Name: MFS/BFS		WO #:							
Site:		Project #: 41008576	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Y - Trizma Z - other (specify)						
Sample Identification		SSOW#:				Other: Special Instructions/Note:			
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)							Matrix (Water, Solid, Oil, Tissue, Air)
MW-102S	7-7-22 1540	G							Water
MW-102S - ms	↓ 1545	↓							↓
MW-102S - MSD	↓ 1550	↓	↓						
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify) MSDEP Full			Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: 7-7-22 1630	Company: Integral	Received by: <i>[Signature]</i> Date/Time: 7/7/22 1630 Company: Eurofins					
Relinquished by: <i>[Signature]</i>		Date/Time: 7/7/22 1835	Company:	Received by: _____ Date/Time: _____ Company:					
Relinquished by: _____		Date/Time: _____	Company:	Received by: <i>[Signature]</i> Date/Time: 7-7-22 1839 Company: Eurofins					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 16.0.9							

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 410-90323-1

Login Number: 90323

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Leakway, Christian

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

Job Number: 410-90529-1

Job Description: MFS/BFS

For:

Integral Consulting Inc
923 Haddonfield Road
Suite 300
Cherry Hill, NJ 08002
Attention: Erin Palko



Approved for release.
Elizabeth M Zanar
Project Manager
9/7/2022 5:22 PM

Elizabeth M Zanar, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7290
Elizabeth.Zanar@et.eurofinsus.com
09/07/2022
Revision: 1

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-90529-1

Job Description: MFS/BFS

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Definitions/Glossary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Qualifiers

LCMS

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-90529-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 8/11/2022. The report (revision 1) is being revised due to: the review of the qualifiers on the MFS and BFS analyses. QC linking was corrected for MFS and data flags revised to reflect this

Receipt

The samples were received on 7/9/2022 6:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8° C.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-102D

Lab Sample ID: 410-90529-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_AB2	0.34	J F1	0.49	0.066	ng/L	1		BFS	Total/NA
BFS_AB3	0.42	J F1	1.2	0.33	ng/L	1		BFS	Total/NA
BFS_B3	0.40	J F1	0.58	0.25	ng/L	1		BFS	Total/NA
MFS_N2	17		0.90	0.18	ng/L	1		MFS	Total/NA
MFS_M3	8.2	F1	0.90	0.18	ng/L	1		MFS	Total/NA
MFS_N3	8.9	F1	0.90	0.18	ng/L	1		MFS	Total/NA

Client Sample ID: MW-118S

Lab Sample ID: 410-90529-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	0.59	J	0.82	0.16	ng/L	1		MFS	Total/NA

Client Sample ID: MW-118D

Lab Sample ID: 410-90529-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N3	0.29	J	0.84	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-101S

Lab Sample ID: 410-90529-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	1.7		1.3	0.36	ng/L	1		BFS	Total/NA
BFS_A3B	0.70		0.54	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	1.8		0.54	0.072	ng/L	1		BFS	Total/NA
BFS_AB3	0.68	J	1.4	0.36	ng/L	1		BFS	Total/NA
BFS_B3	2.1		0.63	0.27	ng/L	1		BFS	Total/NA
MFS_N2	16		0.90	0.18	ng/L	1		MFS	Total/NA

Client Sample ID: MW-101D

Lab Sample ID: 410-90529-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.65	J	1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	0.37	J	0.52	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	3.1		0.52	0.070	ng/L	1		BFS	Total/NA
BFS_AB3	0.77	J	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	0.97		0.61	0.26	ng/L	1		BFS	Total/NA
MFS_N2	15		0.92	0.18	ng/L	1		MFS	Total/NA
MFS_M3	2.2		0.92	0.18	ng/L	1		MFS	Total/NA
MFS_N3	9.6		0.92	0.18	ng/L	1		MFS	Total/NA

Client Sample ID: MW-107S

Lab Sample ID: 410-90529-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N3	1.2		0.85	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-107D

Lab Sample ID: 410-90529-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	2.2		0.80	0.16	ng/L	1		MFS	Total/NA
MFS_M3	0.26	J	0.80	0.16	ng/L	1		MFS	Total/NA
MFS_N3	1.4		0.80	0.16	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-109S

Lab Sample ID: 410-90529-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	150		1.1	0.33	ng/L	1		BFS	Total/NA
BFS_A3B	16		0.49	0.16	ng/L	1		BFS	Total/NA
BFS_A3B2	59		0.65	0.16	ng/L	1		BFS	Total/NA
BFS_A4B	13		0.33	0.16	ng/L	1		BFS	Total/NA
BFS_AB2	37		0.49	0.065	ng/L	1		BFS	Total/NA
BFS_AB3	400		1.2	0.33	ng/L	1		BFS	Total/NA
BFS_B3	110		0.57	0.25	ng/L	1		BFS	Total/NA
BFS_B4	210		0.90	0.33	ng/L	1		BFS	Total/NA
BFS_A2B3 - DL	100		9.0	3.3	ng/L	10		BFS	Total/NA
MFS_M3	0.76	J	0.90	0.18	ng/L	1		MFS	Total/NA
MFS_N2 - DL	730		9.0	1.8	ng/L	10		MFS	Total/NA

Client Sample ID: MW-109D

Lab Sample ID: 410-90529-9

No Detections.

Client Sample ID: EB_070822

Lab Sample ID: 410-90529-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-102D

Lab Sample ID: 410-90529-1

Date Collected: 07/07/22 16:45

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	F1	1.2	0.33	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_A2B3	ND	F1	0.90	0.33	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_A3B	ND	F1	0.49	0.16	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_A3B2	ND	F1	0.66	0.16	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_A4B	ND	F1	0.33	0.16	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_AB2	0.34	J F1	0.49	0.066	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_AB3	0.42	J F1	1.2	0.33	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_B3	0.40	J F1	0.58	0.25	ng/L		07/27/22 10:12	08/09/22 03:37	1
BFS_B4	ND	F1	0.90	0.33	ng/L		07/27/22 10:12	08/09/22 03:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	89		50 - 150				07/27/22 10:12	08/09/22 03:37	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	17		0.90	0.18	ng/L		07/26/22 09:37	08/05/22 17:33	1
MFS_M3	8.2	F1	0.90	0.18	ng/L		07/26/22 09:37	08/05/22 17:33	1
MFS_N3	8.9	F1	0.90	0.18	ng/L		07/26/22 09:37	08/05/22 17:33	1
MFS_M4	ND		0.90	0.45	ng/L		07/26/22 09:37	08/05/22 17:33	1
MFS_N4	ND		1.8	0.90	ng/L		07/26/22 09:37	08/05/22 17:33	1
MFS_N5	ND	F1 F2	2.7	1.8	ng/L		07/26/22 09:37	08/05/22 17:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 150				07/26/22 09:37	08/05/22 17:33	1

Client Sample ID: MW-118S

Lab Sample ID: 410-90529-2

Date Collected: 07/08/22 10:40

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.34	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_A2B3	ND		0.93	0.34	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_A3B	ND		0.51	0.17	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_A3B2	ND		0.67	0.17	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_A4B	ND		0.34	0.17	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_AB2	ND		0.51	0.067	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_AB3	ND		1.3	0.34	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_B3	ND		0.59	0.25	ng/L		07/27/22 10:12	08/09/22 04:14	1
BFS_B4	ND		0.93	0.34	ng/L		07/27/22 10:12	08/09/22 04:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		50 - 150				07/27/22 10:12	08/09/22 04:14	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	0.59	J	0.82	0.16	ng/L		07/26/22 09:37	08/05/22 18:24	1
MFS_M3	ND		0.82	0.16	ng/L		07/26/22 09:37	08/05/22 18:24	1
MFS_N3	ND		0.82	0.16	ng/L		07/26/22 09:37	08/05/22 18:24	1
MFS_M4	ND		0.82	0.41	ng/L		07/26/22 09:37	08/05/22 18:24	1
MFS_N4	ND		1.6	0.82	ng/L		07/26/22 09:37	08/05/22 18:24	1
MFS_N5	ND		2.5	1.6	ng/L		07/26/22 09:37	08/05/22 18:24	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-118S

Lab Sample ID: 410-90529-2

Date Collected: 07/08/22 10:40

Matrix: Water

Date Received: 07/09/22 18:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 150	07/26/22 09:37	08/05/22 18:24	1

Client Sample ID: MW-118D

Lab Sample ID: 410-90529-3

Date Collected: 07/08/22 11:35

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_A2B3	ND		0.96	0.35	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_A3B	ND		0.52	0.17	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_A3B2	ND		0.70	0.17	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_A4B	ND		0.35	0.17	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_AB2	ND		0.52	0.070	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_AB3	ND		1.3	0.35	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_B3	ND		0.61	0.26	ng/L		07/27/22 10:12	08/09/22 04:27	1
BFS_B4	ND		0.96	0.35	ng/L		07/27/22 10:12	08/09/22 04:27	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	95		50 - 150	07/27/22 10:12	08/09/22 04:27	1			

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.84	0.17	ng/L		07/26/22 09:37	08/05/22 18:36	1
MFS_M3	ND		0.84	0.17	ng/L		07/26/22 09:37	08/05/22 18:36	1
MFS_N3	0.29	J	0.84	0.17	ng/L		07/26/22 09:37	08/05/22 18:36	1
MFS_M4	ND		0.84	0.42	ng/L		07/26/22 09:37	08/05/22 18:36	1
MFS_N4	ND		1.7	0.84	ng/L		07/26/22 09:37	08/05/22 18:36	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:37	08/05/22 18:36	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	106		50 - 150	07/26/22 09:37	08/05/22 18:36	1			

Client Sample ID: MW-101S

Lab Sample ID: 410-90529-4

Date Collected: 07/08/22 10:25

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	1.7		1.3	0.36	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_A2B3	ND		0.99	0.36	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_A3B	0.70		0.54	0.18	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_A3B2	ND		0.72	0.18	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_A4B	ND		0.36	0.18	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_AB2	1.8		0.54	0.072	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_AB3	0.68	J	1.4	0.36	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_B3	2.1		0.63	0.27	ng/L		07/27/22 10:12	08/09/22 04:40	1
BFS_B4	ND		0.99	0.36	ng/L		07/27/22 10:12	08/09/22 04:40	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	97		50 - 150	07/27/22 10:12	08/09/22 04:40	1			

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-101S

Lab Sample ID: 410-90529-4

Date Collected: 07/08/22 10:25

Matrix: Water

Date Received: 07/09/22 18:30

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	16		0.90	0.18	ng/L		07/26/22 09:37	08/05/22 18:49	1
MFS_M3	ND		0.90	0.18	ng/L		07/26/22 09:37	08/05/22 18:49	1
MFS_N3	ND		0.90	0.18	ng/L		07/26/22 09:37	08/05/22 18:49	1
MFS_M4	ND		0.90	0.45	ng/L		07/26/22 09:37	08/05/22 18:49	1
MFS_N4	ND		1.8	0.90	ng/L		07/26/22 09:37	08/05/22 18:49	1
MFS_N5	ND		2.7	1.8	ng/L		07/26/22 09:37	08/05/22 18:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	122		50 - 150				07/26/22 09:37	08/05/22 18:49	1

Client Sample ID: MW-101D

Lab Sample ID: 410-90529-5

Date Collected: 07/08/22 12:50

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.65	J	1.2	0.35	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_A2B3	ND		0.96	0.35	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_A3B	0.37	J	0.52	0.17	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_A3B2	ND		0.70	0.17	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_A4B	ND		0.35	0.17	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_AB2	3.1		0.52	0.070	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_AB3	0.77	J	1.3	0.35	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_B3	0.97		0.61	0.26	ng/L		07/27/22 10:12	08/09/22 04:52	1
BFS_B4	ND		0.96	0.35	ng/L		07/27/22 10:12	08/09/22 04:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	72		50 - 150				07/27/22 10:12	08/09/22 04:52	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	15		0.92	0.18	ng/L		07/26/22 09:37	08/05/22 19:02	1
MFS_M3	2.2		0.92	0.18	ng/L		07/26/22 09:37	08/05/22 19:02	1
MFS_N3	9.6		0.92	0.18	ng/L		07/26/22 09:37	08/05/22 19:02	1
MFS_M4	ND		0.92	0.46	ng/L		07/26/22 09:37	08/05/22 19:02	1
MFS_N4	ND		1.8	0.92	ng/L		07/26/22 09:37	08/05/22 19:02	1
MFS_N5	ND		2.8	1.8	ng/L		07/26/22 09:37	08/05/22 19:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 150				07/26/22 09:37	08/05/22 19:02	1

Client Sample ID: MW-107S

Lab Sample ID: 410-90529-6

Date Collected: 07/08/22 14:30

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.33	ng/L		07/27/22 10:12	08/09/22 05:05	1
BFS_A2B3	ND		0.92	0.33	ng/L		07/27/22 10:12	08/09/22 05:05	1
BFS_A3B	ND		0.50	0.17	ng/L		07/27/22 10:12	08/09/22 05:05	1
BFS_A3B2	ND		0.67	0.17	ng/L		07/27/22 10:12	08/09/22 05:05	1
BFS_A4B	ND		0.33	0.17	ng/L		07/27/22 10:12	08/09/22 05:05	1
BFS_AB2	ND		0.50	0.067	ng/L		07/27/22 10:12	08/09/22 05:05	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-107S

Lab Sample ID: 410-90529-6

Date Collected: 07/08/22 14:30

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_AB3	ND		1.3	0.33	ng/L		07/27/22 10:12	08/09/22 05:05	1
BFS_B3	ND		0.58	0.25	ng/L		07/27/22 10:12	08/09/22 05:05	1
BFS_B4	ND		0.92	0.33	ng/L		07/27/22 10:12	08/09/22 05:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	122		50 - 150				07/27/22 10:12	08/09/22 05:05	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.85	0.17	ng/L		07/26/22 09:37	08/05/22 19:15	1
MFS_M3	ND		0.85	0.17	ng/L		07/26/22 09:37	08/05/22 19:15	1
MFS_N3	1.2		0.85	0.17	ng/L		07/26/22 09:37	08/05/22 19:15	1
MFS_M4	ND		0.85	0.42	ng/L		07/26/22 09:37	08/05/22 19:15	1
MFS_N4	ND		1.7	0.85	ng/L		07/26/22 09:37	08/05/22 19:15	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:37	08/05/22 19:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	115		50 - 150				07/26/22 09:37	08/05/22 19:15	1

Client Sample ID: MW-107D

Lab Sample ID: 410-90529-7

Date Collected: 07/08/22 14:40

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_A2B3	ND		0.95	0.35	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_A3B	ND		0.52	0.17	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_A3B2	ND		0.69	0.17	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_A4B	ND		0.35	0.17	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_AB2	ND		0.52	0.069	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_AB3	ND		1.3	0.35	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_B3	ND		0.61	0.26	ng/L		07/27/22 10:12	08/09/22 05:18	1
BFS_B4	ND		0.95	0.35	ng/L		07/27/22 10:12	08/09/22 05:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	125		50 - 150				07/27/22 10:12	08/09/22 05:18	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	2.2		0.80	0.16	ng/L		07/26/22 09:37	08/05/22 19:28	1
MFS_M3	0.26	J	0.80	0.16	ng/L		07/26/22 09:37	08/05/22 19:28	1
MFS_N3	1.4		0.80	0.16	ng/L		07/26/22 09:37	08/05/22 19:28	1
MFS_M4	ND		0.80	0.40	ng/L		07/26/22 09:37	08/05/22 19:28	1
MFS_N4	ND		1.6	0.80	ng/L		07/26/22 09:37	08/05/22 19:28	1
MFS_N5	ND		2.4	1.6	ng/L		07/26/22 09:37	08/05/22 19:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	126		50 - 150				07/26/22 09:37	08/05/22 19:28	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-109S

Lab Sample ID: 410-90529-8

Date Collected: 07/08/22 16:00

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	150		1.1	0.33	ng/L		07/27/22 10:12	08/09/22 05:30	1
BFS_A3B	16		0.49	0.16	ng/L		07/27/22 10:12	08/09/22 05:30	1
BFS_A3B2	59		0.65	0.16	ng/L		07/27/22 10:12	08/09/22 05:30	1
BFS_A4B	13		0.33	0.16	ng/L		07/27/22 10:12	08/09/22 05:30	1
BFS_AB2	37		0.49	0.065	ng/L		07/27/22 10:12	08/09/22 05:30	1
BFS_AB3	400		1.2	0.33	ng/L		07/27/22 10:12	08/09/22 05:30	1
BFS_B3	110		0.57	0.25	ng/L		07/27/22 10:12	08/09/22 05:30	1
BFS_B4	210		0.90	0.33	ng/L		07/27/22 10:12	08/09/22 05:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	109		50 - 150				07/27/22 10:12	08/09/22 05:30	1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B3	100		9.0	3.3	ng/L		07/27/22 10:12	08/11/22 06:09	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	98		50 - 150				07/27/22 10:12	08/11/22 06:09	10

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	0.76	J	0.90	0.18	ng/L		07/26/22 09:37	08/05/22 19:41	1
MFS_N3	ND		0.90	0.18	ng/L		07/26/22 09:37	08/05/22 19:41	1
MFS_M4	ND		0.90	0.45	ng/L		07/26/22 09:37	08/05/22 19:41	1
MFS_N4	ND		1.8	0.90	ng/L		07/26/22 09:37	08/05/22 19:41	1
MFS_N5	ND		2.7	1.8	ng/L		07/26/22 09:37	08/05/22 19:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	124		50 - 150				07/26/22 09:37	08/05/22 19:41	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	730		9.0	1.8	ng/L		07/26/22 09:37	08/11/22 01:30	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	122		50 - 150				07/26/22 09:37	08/11/22 01:30	10

Client Sample ID: MW-109D

Lab Sample ID: 410-90529-9

Date Collected: 07/08/22 15:50

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.34	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_A2B3	ND		0.92	0.34	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_A3B	ND		0.50	0.17	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_A3B2	ND		0.67	0.17	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_A4B	ND		0.34	0.17	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_AB2	ND		0.50	0.067	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_AB3	ND		1.3	0.34	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_B3	ND		0.59	0.25	ng/L		07/27/22 10:12	08/09/22 05:55	1
BFS_B4	ND		0.92	0.34	ng/L		07/27/22 10:12	08/09/22 05:55	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-109D

Lab Sample ID: 410-90529-9

Date Collected: 07/08/22 15:50

Matrix: Water

Date Received: 07/09/22 18:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	105		50 - 150	07/27/22 10:12	08/09/22 05:55	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.91	0.18	ng/L		07/26/22 09:37	08/05/22 19:53	1
MFS_M3	ND		0.91	0.18	ng/L		07/26/22 09:37	08/05/22 19:53	1
MFS_N3	ND		0.91	0.18	ng/L		07/26/22 09:37	08/05/22 19:53	1
MFS_M4	ND		0.91	0.46	ng/L		07/26/22 09:37	08/05/22 19:53	1
MFS_N4	ND		1.8	0.91	ng/L		07/26/22 09:37	08/05/22 19:53	1
MFS_N5	ND		2.7	1.8	ng/L		07/26/22 09:37	08/05/22 19:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	100		50 - 150	07/26/22 09:37	08/05/22 19:53	1

Client Sample ID: EB_070822

Lab Sample ID: 410-90529-10

Date Collected: 07/08/22 10:20

Matrix: Water

Date Received: 07/09/22 18:30

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.3	0.38	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_A2B3	ND		1.0	0.38	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_A3B	ND		0.56	0.19	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_A3B2	ND		0.75	0.19	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_A4B	ND		0.38	0.19	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_AB2	ND		0.56	0.075	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_AB3	ND		1.4	0.38	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_B3	ND		0.66	0.28	ng/L		07/27/22 10:12	08/09/22 06:08	1
BFS_B4	ND		1.0	0.38	ng/L		07/27/22 10:12	08/09/22 06:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 150	07/27/22 10:12	08/09/22 06:08	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.88	0.18	ng/L		07/26/22 09:37	08/05/22 20:06	1
MFS_M3	ND		0.88	0.18	ng/L		07/26/22 09:37	08/05/22 20:06	1
MFS_N3	ND		0.88	0.18	ng/L		07/26/22 09:37	08/05/22 20:06	1
MFS_M4	ND		0.88	0.44	ng/L		07/26/22 09:37	08/05/22 20:06	1
MFS_N4	ND		1.8	0.88	ng/L		07/26/22 09:37	08/05/22 20:06	1
MFS_N5	ND		2.6	1.8	ng/L		07/26/22 09:37	08/05/22 20:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	107		50 - 150	07/26/22 09:37	08/05/22 20:06	1

Default Detection Limits

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
BFS_A2B2	1.4	0.40	ng/L
BFS_A2B3	1.1	0.40	ng/L
BFS_A3B	0.60	0.20	ng/L
BFS_A3B2	0.80	0.20	ng/L
BFS_A4B	0.40	0.20	ng/L
BFS_AB2	0.60	0.080	ng/L
BFS_AB3	1.5	0.40	ng/L
BFS_B3	0.70	0.30	ng/L
BFS_B4	1.1	0.40	ng/L

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
MFS_M3	1.0	0.20	ng/L
MFS_M4	1.0	0.50	ng/L
MFS_N2	1.0	0.20	ng/L
MFS_N3	1.0	0.20	ng/L
MFS_N4	2.0	1.0	ng/L
MFS_N5	3.0	2.0	ng/L

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-90529-1	MW-102D	89
410-90529-1 MS	MW-102D_MS	94
410-90529-1 MSD	MW-102D_MSD	92
410-90529-2	MW-118S	97
410-90529-3	MW-118D	95
410-90529-4	MW-101S	97
410-90529-5	MW-101D	72
410-90529-6	MW-107S	122
410-90529-7	MW-107D	125
410-90529-8	MW-109S	109
410-90529-8 - DL	MW-109S	98
410-90529-9	MW-109D	105
410-90529-10	EB_070822	101
LCS 410-279981/2-A	Lab Control Sample	100
MB 410-279981/1-A	Method Blank	111

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-90529-1	MW-102D	103
410-90529-1 MS	MW-102D_MS	116
410-90529-1 MSD	MW-102D_MSD	91
410-90529-2	MW-118S	102
410-90529-3	MW-118D	106
410-90529-4	MW-101S	122
410-90529-5	MW-101D	88
410-90529-6	MW-107S	115
410-90529-7	MW-107D	126
410-90529-8	MW-109S	124
410-90529-8 - DL	MW-109S	122
410-90529-9	MW-109D	100
410-90529-10	EB_070822	107
LCS 410-279534/2-A	Lab Control Sample	105
MB 410-279534/1-A	Method Blank	101

Surrogate Legend

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-279981/1-A
Matrix: Water
Analysis Batch: 283897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279981

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A3B	ND		0.60	0.20	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A4B	ND		0.40	0.20	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_AB2	ND		0.60	0.080	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_AB3	ND		1.5	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_B3	ND		0.70	0.30	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_B4	ND		1.1	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
Isotope Dilution	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C3 HFPO-DA	111		50 - 150				07/27/22 10:12	08/09/22 03:11	1

Lab Sample ID: LCS 410-279981/2-A
Matrix: Water
Analysis Batch: 283897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B2	250	259		ng/L		104		70 - 130
BFS_A2B3	4.72	4.74		ng/L		100		70 - 130
BFS_A3B	35.8	38.0		ng/L		106		70 - 130
BFS_A3B2	47.2	50.1		ng/L		106		70 - 130
BFS_A4B	19.8	18.9		ng/L		95		70 - 130
BFS_AB2	32.1	36.0		ng/L		112		70 - 130
BFS_AB3	268	266		ng/L		99		70 - 130
BFS_B3	114	115		ng/L		101		70 - 130
BFS_B4	62.2	62.2		ng/L		100		70 - 130
Isotope Dilution	LCS LCS		Limits				%Rec	Limits
	%Recovery	Qualifier						
13C3 HFPO-DA	100		50 - 150					

Lab Sample ID: 410-90529-1 MS
Matrix: Water
Analysis Batch: 283897

Client Sample ID: MW-102D_MS
Prep Type: Total/NA
Prep Batch: 279981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B2	ND	F1	204	530	F1	ng/L		259		70 - 130
BFS_A2B3	ND	F1	3.85	7.92	F1	ng/L		205		70 - 130
BFS_A3B	ND	F1	29.3	82.8	F1	ng/L		283		70 - 130
BFS_A3B2	ND	F1	38.5	85.9	F1	ng/L		223		70 - 130
BFS_A4B	ND	F1	16.2	38.9	F1	ng/L		241		70 - 130
BFS_AB2	0.34	J F1	26.2	80.1	F1	ng/L		305		70 - 130
BFS_AB3	0.42	J F1	219	489	F1	ng/L		223		70 - 130
BFS_B3	0.40	J F1	93.3	247	F1	ng/L		264		70 - 130
BFS_B4	ND	F1	50.9	110	F1	ng/L		217		70 - 130
Isotope Dilution	MS MS		Limits					%Rec	Limits	
	%Recovery	Qualifier								
13C3 HFPO-DA	94		50 - 150							

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90529-1 MSD

Matrix: Water

Analysis Batch: 283897

Client Sample ID: MW-102D_MSD

Prep Type: Total/NA

Prep Batch: 279981

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
BFS_A2B2	ND	F1	211	540	F1	ng/L		256	70 - 130	2	30	
BFS_A2B3	ND	F1	3.98	8.06	F1	ng/L		202	70 - 130	2	30	
BFS_A3B	ND	F1	30.3	86.7	F1	ng/L		287	70 - 130	5	30	
BFS_A3B2	ND	F1	39.8	92.6	F1	ng/L		233	70 - 130	8	30	
BFS_A4B	ND	F1	16.7	41.4	F1	ng/L		247	70 - 130	6	30	
BFS_AB2	0.34	J F1	27.1	83.0	F1	ng/L		305	70 - 130	4	30	
BFS_AB3	0.42	J F1	226	486	F1	ng/L		214	70 - 130	1	30	
BFS_B3	0.40	J F1	96.4	245	F1	ng/L		253	70 - 130	1	30	
BFS_B4	ND	F1	52.6	113	F1	ng/L		215	70 - 130	3	30	
			MSD	MSD								
Isotope Dilution	%Recovery	Qualifier	Limits									
13C3 HFPO-DA	92		50 - 150									

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-279534/1-A

Matrix: Water

Analysis Batch: 283250

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 279534

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_M3	ND		1.0	0.20	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_N3	ND		1.0	0.20	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_M4	ND		1.0	0.50	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_N4	ND		2.0	1.0	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_N5	ND		3.0	2.0	ng/L		07/26/22 09:37	08/05/22 17:08	1
			MB	MB					
Isotope Dilution	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac		
13C3 HFPO-DA	101		50 - 150		07/26/22 09:37	08/05/22 17:08	1		

Lab Sample ID: LCS 410-279534/2-A

Matrix: Water

Analysis Batch: 283250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 279534

Analyte	Spike	LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
MFS_N2	38.6	41.3		ng/L		107	70 - 130	
MFS_M3	39.4	41.0		ng/L		104	70 - 130	
MFS_N3	40.1	40.5		ng/L		101	70 - 130	
MFS_M4	39.3	43.0		ng/L		110	70 - 130	
MFS_N4	39.8	41.7		ng/L		105	70 - 130	
MFS_N5	40.4	43.8		ng/L		108	70 - 130	
			LCS	LCS				
Isotope Dilution	%Recovery	Qualifier	Limits					
13C3 HFPO-DA	105		50 - 150					

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: 410-90529-1 MS

Matrix: Water

Analysis Batch: 283896

Client Sample ID: MW-102D_MS

Prep Type: Total/NA

Prep Batch: 279534

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
MFS_N2	17		30.6	53.0		ng/L		118		70 - 130
MFS_M3	8.2	F1	31.3	56.6	F1	ng/L		154		70 - 130
MFS_N3	8.9	F1	31.8	62.7	F1	ng/L		169		70 - 130
MFS_M4	ND		31.2	37.5		ng/L		120		70 - 130
MFS_N4	ND		31.6	38.1		ng/L		120		70 - 130
MFS_N5	ND	F1 F2	32.1	16.7	F1	ng/L		52		70 - 130
		MS MS								
Isotope Dilution	%Recovery	Qualifier	Limits							
13C3 HFPO-DA	116		50 - 150							

Lab Sample ID: 410-90529-1 MSD

Matrix: Water

Analysis Batch: 284258

Client Sample ID: MW-102D_MSD

Prep Type: Total/NA

Prep Batch: 279534

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
MFS_N2	17		33.1	50.8		ng/L		103		70 - 130	4	30
MFS_M3	8.2	F1	33.8	53.7	F1	ng/L		134		70 - 130	5	30
MFS_N3	8.9	F1	34.3	59.5	F1	ng/L		147		70 - 130	5	30
MFS_M4	ND		33.7	38.8		ng/L		115		70 - 130	3	30
MFS_N4	ND		34.1	39.4		ng/L		115		70 - 130	3	30
MFS_N5	ND	F1 F2	34.6	35.4	F2	ng/L		102		70 - 130	72	30
		MSD MSD										
Isotope Dilution	%Recovery	Qualifier	Limits									
13C3 HFPO-DA	91		50 - 150									

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

LCMS

Prep Batch: 279534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-1	MW-102D	Total/NA	Water	3535	
410-90529-2	MW-118S	Total/NA	Water	3535	
410-90529-3	MW-118D	Total/NA	Water	3535	
410-90529-4	MW-101S	Total/NA	Water	3535	
410-90529-5	MW-101D	Total/NA	Water	3535	
410-90529-6	MW-107S	Total/NA	Water	3535	
410-90529-7	MW-107D	Total/NA	Water	3535	
410-90529-8	MW-109S	Total/NA	Water	3535	
410-90529-8 - DL	MW-109S	Total/NA	Water	3535	
410-90529-9	MW-109D	Total/NA	Water	3535	
410-90529-10	EB_070822	Total/NA	Water	3535	
MB 410-279534/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279534/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90529-1 MS	MW-102D_MS	Total/NA	Water	3535	
410-90529-1 MSD	MW-102D_MSD	Total/NA	Water	3535	

Prep Batch: 279981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-1	MW-102D	Total/NA	Water	3535	
410-90529-2	MW-118S	Total/NA	Water	3535	
410-90529-3	MW-118D	Total/NA	Water	3535	
410-90529-4	MW-101S	Total/NA	Water	3535	
410-90529-5	MW-101D	Total/NA	Water	3535	
410-90529-6	MW-107S	Total/NA	Water	3535	
410-90529-7	MW-107D	Total/NA	Water	3535	
410-90529-8	MW-109S	Total/NA	Water	3535	
410-90529-8 - DL	MW-109S	Total/NA	Water	3535	
410-90529-9	MW-109D	Total/NA	Water	3535	
410-90529-10	EB_070822	Total/NA	Water	3535	
MB 410-279981/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279981/2-A	Lab Control Sample	Total/NA	Water	3535	
410-90529-1 MS	MW-102D_MS	Total/NA	Water	3535	
410-90529-1 MSD	MW-102D_MSD	Total/NA	Water	3535	

Analysis Batch: 283250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-1	MW-102D	Total/NA	Water	MFS	279534
410-90529-2	MW-118S	Total/NA	Water	MFS	279534
410-90529-3	MW-118D	Total/NA	Water	MFS	279534
410-90529-4	MW-101S	Total/NA	Water	MFS	279534
410-90529-5	MW-101D	Total/NA	Water	MFS	279534
410-90529-6	MW-107S	Total/NA	Water	MFS	279534
410-90529-7	MW-107D	Total/NA	Water	MFS	279534
410-90529-8	MW-109S	Total/NA	Water	MFS	279534
410-90529-9	MW-109D	Total/NA	Water	MFS	279534
410-90529-10	EB_070822	Total/NA	Water	MFS	279534
MB 410-279534/1-A	Method Blank	Total/NA	Water	MFS	279534
LCS 410-279534/2-A	Lab Control Sample	Total/NA	Water	MFS	279534

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

LCMS

Analysis Batch: 283896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-1 MS	MW-102D_MS	Total/NA	Water	MFS	279534

Analysis Batch: 283897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-1	MW-102D	Total/NA	Water	BFS	279981
410-90529-2	MW-118S	Total/NA	Water	BFS	279981
410-90529-3	MW-118D	Total/NA	Water	BFS	279981
410-90529-4	MW-101S	Total/NA	Water	BFS	279981
410-90529-5	MW-101D	Total/NA	Water	BFS	279981
410-90529-6	MW-107S	Total/NA	Water	BFS	279981
410-90529-7	MW-107D	Total/NA	Water	BFS	279981
410-90529-8	MW-109S	Total/NA	Water	BFS	279981
410-90529-9	MW-109D	Total/NA	Water	BFS	279981
410-90529-10	EB_070822	Total/NA	Water	BFS	279981
MB 410-279981/1-A	Method Blank	Total/NA	Water	BFS	279981
LCS 410-279981/2-A	Lab Control Sample	Total/NA	Water	BFS	279981
410-90529-1 MS	MW-102D_MS	Total/NA	Water	BFS	279981
410-90529-1 MSD	MW-102D_MSD	Total/NA	Water	BFS	279981

Analysis Batch: 284258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-1 MSD	MW-102D_MSD	Total/NA	Water	MFS	279534

Analysis Batch: 284700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-8 - DL	MW-109S	Total/NA	Water	MFS	279534

Analysis Batch: 284701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90529-8 - DL	MW-109S	Total/NA	Water	BFS	279981

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-102D

Lab Sample ID: 410-90529-1

Date Collected: 07/07/22 16:45

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 03:37
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 17:33

Client Sample ID: MW-118S

Lab Sample ID: 410-90529-2

Date Collected: 07/08/22 10:40

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 04:14
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 18:24

Client Sample ID: MW-118D

Lab Sample ID: 410-90529-3

Date Collected: 07/08/22 11:35

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 04:27
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 18:36

Client Sample ID: MW-101S

Lab Sample ID: 410-90529-4

Date Collected: 07/08/22 10:25

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 04:40
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 18:49

Client Sample ID: MW-101D

Lab Sample ID: 410-90529-5

Date Collected: 07/08/22 12:50

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 04:52
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 19:02

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: MW-107S

Lab Sample ID: 410-90529-6

Date Collected: 07/08/22 14:30

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 05:05
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 19:15

Client Sample ID: MW-107D

Lab Sample ID: 410-90529-7

Date Collected: 07/08/22 14:40

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 05:18
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 19:28

Client Sample ID: MW-109S

Lab Sample ID: 410-90529-8

Date Collected: 07/08/22 16:00

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 05:30
Total/NA	Prep	3535	DL		279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS	DL	10	284701	JVK6	ELLE	08/11/22 06:09
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 19:41
Total/NA	Prep	3535	DL		279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS	DL	10	284700	JVK6	ELLE	08/11/22 01:30

Client Sample ID: MW-109D

Lab Sample ID: 410-90529-9

Date Collected: 07/08/22 15:50

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 05:55
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 19:53

Client Sample ID: EB_070822

Lab Sample ID: 410-90529-10

Date Collected: 07/08/22 10:20

Matrix: Water

Date Received: 07/09/22 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 06:08

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Client Sample ID: EB_070822

Lab Sample ID: 410-90529-10

Date Collected: 07/08/22 10:20

Matrix: Water

Date Received: 07/09/22 18:30

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 20:06

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
BFS	3535	Water	BFS_A2B2
BFS	3535	Water	BFS_A2B3
BFS	3535	Water	BFS_A3B
BFS	3535	Water	BFS_A3B2
BFS	3535	Water	BFS_A4B
BFS	3535	Water	BFS_AB2
BFS	3535	Water	BFS_AB3
BFS	3535	Water	BFS_B3
BFS	3535	Water	BFS_B4
MFS	3535	Water	MFS_M3
MFS	3535	Water	MFS_M4
MFS	3535	Water	MFS_N2
MFS	3535	Water	MFS_N3
MFS	3535	Water	MFS_N4
MFS	3535	Water	MFS_N5

Method Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Method	Method Description	Protocol	Laboratory
BFS	Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
MFS	Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

Client = Client derived Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90529-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-90529-1	MW-102D	Water	07/07/22 16:45	07/09/22 18:30
410-90529-2	MW-118S	Water	07/08/22 10:40	07/09/22 18:30
410-90529-3	MW-118D	Water	07/08/22 11:35	07/09/22 18:30
410-90529-4	MW-101S	Water	07/08/22 10:25	07/09/22 18:30
410-90529-5	MW-101D	Water	07/08/22 12:50	07/09/22 18:30
410-90529-6	MW-107S	Water	07/08/22 14:30	07/09/22 18:30
410-90529-7	MW-107D	Water	07/08/22 14:40	07/09/22 18:30
410-90529-8	MW-109S	Water	07/08/22 16:00	07/09/22 18:30
410-90529-9	MW-109D	Water	07/08/22 15:50	07/09/22 18:30
410-90529-10	EB_070822	Water	07/08/22 10:20	07/09/22 18:30

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/1 Client Sample ID: _____

Date Analyzed: 08/09/22 00:03 Lab File ID: 22AUG08BFSCAL-03.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.97	Baseline	JVK6	08/09/22 07:38
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:39
BFS_B3	4.22	Baseline	JVK6	08/09/22 07:39
BFS_A2B2	4.32	Baseline	JVK6	08/09/22 07:39
BFS_A4B	4.41	Baseline	JVK6	08/09/22 07:39
BFS_A3B2	4.69	Baseline	JVK6	08/09/22 07:39
BFS_B4	4.82	Baseline	JVK6	08/09/22 07:40

Lab Sample ID: IC 410-283892/2 Client Sample ID: _____

Date Analyzed: 08/09/22 00:15 Lab File ID: 22AUG08BFSCAL-04.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A4B	4.40	Baseline	JVK6	08/09/22 07:40

Lab Sample ID: IC 410-283892/3 Client Sample ID: _____

Date Analyzed: 08/09/22 00:28 Lab File ID: 22AUG08BFSCAL-05.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:41
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:41
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:41
BFS_A2B3	4.94	Baseline	JVK6	08/09/22 07:41

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/4 Client Sample ID: _____

Date Analyzed: 08/09/22 00:40 Lab File ID: 22AUG08BFSCAL-06.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 07:41

Lab Sample ID: ICISAV 410-283892/5 Client Sample ID: _____

Date Analyzed: 08/09/22 00:53 Lab File ID: 22AUG08BFSCAL-07.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.21	Baseline	JVK6	08/09/22 07:37
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:37
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 07:36

Lab Sample ID: IC 410-283892/6 Client Sample ID: _____

Date Analyzed: 08/09/22 01:06 Lab File ID: 22AUG08BFSCAL-08.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:42

Lab Sample ID: IC 410-283892/7 Client Sample ID: _____

Date Analyzed: 08/09/22 01:18 Lab File ID: 22AUG08BFSCAL-09.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	08/09/22 07:42
BFS_A3B	4.03	Baseline	JVK6	08/09/22 07:42
BFS_B3	4.19	Baseline	JVK6	08/09/22 07:42
BFS_A2B2	4.30	Baseline	JVK6	08/09/22 07:42
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:42

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/8 Client Sample ID: _____

Date Analyzed: 08/09/22 01:31 Lab File ID: 22AUG08BFSCAL-10.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:43
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:43

Lab Sample ID: IC 410-283892/9 Client Sample ID: _____

Date Analyzed: 08/09/22 01:43 Lab File ID: 22AUG08BFSCAL-11.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:43
BFS_A3B	4.03	Baseline	JVK6	08/09/22 07:43
BFS_B3	4.19	Baseline	JVK6	08/09/22 07:43
BFS_A2B2	4.30	Baseline	JVK6	08/09/22 07:43
BFS_A4B	4.39	Baseline	JVK6	08/09/22 07:43
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:43

Lab Sample ID: IC 410-283892/10 Client Sample ID: _____

Date Analyzed: 08/09/22 01:56 Lab File ID: 22AUG08BFSCAL-12.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:44
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:44
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:44
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: ICV 410-283892/12 Client Sample ID: _____

Date Analyzed: 08/09/22 02:21 Lab File ID: 22AUG08BFSCAL-14.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:45
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:45
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:44
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:44
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283897

Lab Sample ID: CCVL 410-283897/1 Client Sample ID: _____

Date Analyzed: 08/09/22 02:46 Lab File ID: 22AUG05BFS-01.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 08:18
BFS_A3B	4.04	Baseline	JVK6	08/09/22 08:18
BFS_A4B	4.39	Baseline	JVK6	08/09/22 08:18
BFS_B4	4.79	Baseline	JVK6	08/09/22 08:18

Lab Sample ID: CCV 410-283897/2 Client Sample ID: _____

Date Analyzed: 08/09/22 02:59 Lab File ID: 22AUG05BFS-02.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 08:18
BFS_A3B	4.04	Baseline	JVK6	08/09/22 08:18
BFS_B3	4.20	Baseline	JVK6	08/09/22 08:18
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 08:18
BFS_AB3	4.57	Baseline	JVK6	08/09/22 08:19
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 08:46

Lab Sample ID: LCS 410-279981/2-A Client Sample ID: _____

Date Analyzed: 08/09/22 03:24 Lab File ID: 22AUG05BFS-04.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C2 PFOA	5.00	Peak assignment corrected	JVK6	08/09/22 10:14

Lab Sample ID: 410-90529-1 Client Sample ID: MW-102D

Date Analyzed: 08/09/22 03:37 Lab File ID: 22AUG05BFS-05.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.20	Baseline	JVK6	08/09/22 10:14

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283897

Lab Sample ID: CCV 410-283897/15 Client Sample ID: _____

Date Analyzed: 08/09/22 05:43 Lab File ID: 22AUG05BFS-15.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	08/09/22 08:46

Lab Sample ID: CCV 410-283897/18 Client Sample ID: _____

Date Analyzed: 08/09/22 06:20 Lab File ID: 22AUG05BFS-18.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	08/09/22 08:47
BFS_A3B	4.03	Baseline	JVK6	08/09/22 08:47
BFS_A2B3	4.90	Baseline	JVK6	08/09/22 08:47

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 284701

Lab Sample ID: CCVL 410-284701/1 Client Sample ID: _____

Date Analyzed: 08/11/22 02:46 Lab File ID: 22AUG10BFS-01.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/11/22 06:33
BFS_A3B	4.05	Baseline	JVK6	08/11/22 06:33
BFS_B3	4.20	Baseline	JVK6	08/11/22 06:33
BFS_A4B	4.39	Baseline	JVK6	08/11/22 06:33
BFS_A3B2	4.67	Baseline	JVK6	08/11/22 06:33

Lab Sample ID: 410-90529-8 DL Client Sample ID: MW-109S DL

Date Analyzed: 08/11/22 06:09 Lab File ID: 22AUG10BFS-17.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/11/22 06:37

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283250

Lab Sample ID: CCVL 410-283250/23 Client Sample ID: _____

Date Analyzed: 08/05/22 16:56 Lab File ID: 22AUG5MFS-23.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_N2	5.25	Baseline	DCS9	08/06/22 11:02

Lab Sample ID: 410-90529-6 Client Sample ID: MW-107S

Date Analyzed: 08/05/22 19:15 Lab File ID: 22AUG5MFS-34.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_N2	5.25	Baseline	DCS9	08/06/22 11:18

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 284258

Lab Sample ID: 410-90529-1 MSD Client Sample ID: MW-102D_MSD MSD

Date Analyzed: 08/10/22 01:34 Lab File ID: 22AUG09MFS-03.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_M3	5.81	Baseline	JVK6	08/10/22 10:47

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL	
							BFS_A2B3	0.654875 ng/mL	
							BFS_A3B	4.97698 ng/mL	
							BFS_A3B2	6.54868 ng/mL	
							BFS_A4B	2.75045 ng/mL	
							BFS_AB2	4.4531 ng/mL	
							BFS_AB3	37.1964 ng/mL	
							BFS_B3	15.8478 ng/mL	
							BFS_B4	8.64425 ng/mL	
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
					PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
								BFS_A2B3	26195 ng/mL
								BFS_A3B	199079 ng/mL
								BFS_A3B2	261947 ng/mL
								BFS_A4B	110018 ng/mL
								BFS_AB2	178124 ng/mL
								BFS_AB3	1487860 ng/mL
								BFS_B3	633911 ng/mL
								BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_ST_01249	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01249	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL	
							MFS_M3	0.984766 ng/mL	
							MFS_N3	1.00129 ng/mL	
							MFS_M4	0.981629 ng/mL	
							MFS_N4	0.995152 ng/mL	
							MFS_N5	1.00979 ng/mL	
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
					PFC_IN_00717	1 mL	MFS_N2	96.3932 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
.PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
..PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
...PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
...PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
...PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
...PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
...PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
...PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
PFC_IN_BFS_00016	08/14/22	03/29/22	Methanol, Lot 2732102212233A	10 mL	PFC_IN_BFS_00011	1 mL	BFS A2B2	1388.32 ng/mL
							BFS A2B3	26.195 ng/mL
							BFS A3B	199.079 ng/mL
							BFS A3B2	261.947 ng/mL
							BFS A4B	110.018 ng/mL
							BFS AB2	178.124 ng/mL
							BFS AB3	1487.86 ng/mL
							BFS B3	633.911 ng/mL
							BFS B4	345.77 ng/mL
.PFC_IN_BFS_00011	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IS_MOD_00364	08/22/22	07/22/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01680	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PFC IS MOD 00371	10/03/22	08/03/22	Methanol, Lot ED531-US	10 mL	PFC ST 01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC ST 01726	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC IS MOD 00374	10/05/22	08/08/22	Methanol, Lot ED531-US	10 mL	PFC ST 01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC ST 01726	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC SS 00013	09/25/22	07/25/22	Methanol, Lot 220054	10 mL	PFC INT 00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC STD BFS1 00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.025 mL	BFS_A2B2	0.347079 ng/mL
							BFS_A2B3	0.00654875 ng/mL
							BFS_A3B	0.0497698 ng/mL
							BFS_A3B2	0.0654867 ng/mL
							BFS_A4B	0.0275045 ng/mL
							BFS_AB2	0.044531 ng/mL
							BFS_AB3	0.371964 ng/mL
							BFS_B3	0.158478 ng/mL
							BFS_B4	0.0864425 ng/mL
					PFC_INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS10_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.5 mL	BFS A2B2	694.159 ng/mL
							BFS A2B3	13.0975 ng/mL
							BFS A3B	99.5395 ng/mL
							BFS A3B2	130.974 ng/mL
							BFS A4B	55.009 ng/mL
							BFS AB2	89.062 ng/mL
							BFS AB3	743.928 ng/mL
							BFS B3	316.955 ng/mL
							BFS B4	172.885 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23	Solvay, Lot BFS 1206SI			(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS2_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.075 mL	BFS_A2B2	1.04124 ng/mL
							BFS_A2B3	0.0196463 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A3B	0.149309 ng/mL
							BFS_A3B2	0.19646 ng/mL
							BFS_A4B	0.0825135 ng/mL
							BFS_AB2	0.133593 ng/mL
							BFS_AB3	1.11589 ng/mL
							BFS_B3	0.475433 ng/mL
							BFS_B4	0.259327 ng/mL
					PFC INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS3_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.2 mL	BFS_A2B2	2.77663 ng/mL
							BFS_A2B3	0.05239 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A3B	0.398158 ng/mL
							BFS_A3B2	0.523894 ng/mL
							BFS_A4B	0.220036 ng/mL
							BFS_AB2	0.356248 ng/mL
							BFS AB3	2.97571 ng/mL
							BFS B3	1.26782 ng/mL
							BFS B4	0.69154 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS4_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.5 mL	BFS_A2B2	6.94158 ng/mL
							BFS_A2B3	0.130975 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A3B	0.995395 ng/mL
							BFS_A3B2	1.30974 ng/mL
							BFS_A4B	0.55009 ng/mL
							BFS_AB2	0.89062 ng/mL
							BFS_AB3	7.43928 ng/mL
							BFS_B3	3.16955 ng/mL
							BFS_B4	1.72885 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS5_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	1 mL	BFS_A2B2	13.8832 ng/mL
							BFS_A2B3	0.26195 ng/mL
							BFS_A3B	1.99079 ng/mL
							BFS_A3B2	2.61947 ng/mL
							BFS_A4B	1.10018 ng/mL
							BFS_AB2	1.78124 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	14.8786 ng/mL
							BFS B3	6.33911 ng/mL
							BFS B4	3.4577 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121				13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516				13C2 PFOA	2000 ng/mL
PFC_STD_BFS6_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL
							BFS_A2B3	0.654875 ng/mL
							BFS_A3B	4.97698 ng/mL
							BFS_A3B2	6.54868 ng/mL
							BFS_A4B	2.75045 ng/mL
							BFS_AB2	4.4531 ng/mL
							BFS_AB3	37.1964 ng/mL
							BFS_B3	15.8478 ng/mL
							BFS_B4	8.64425 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
					PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
..PFC_ST_BFS_00003	02/14/23	Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL		
						BFS_A2B3	26195 ng/mL		
						BFS_A3B	199079 ng/mL		
						BFS_A3B2	261947 ng/mL		
						BFS_A4B	110018 ng/mL		
						BFS_AB2	178124 ng/mL		
						BFS_AB3	1487860 ng/mL		
						BFS_B3	633911 ng/mL		
						BFS_B4	345770 ng/mL		
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_STD_BFS7_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.05 mL	BFS_A2B2	69.4159 ng/mL	
							BFS_A2B3	1.30975 ng/mL	
							BFS_A3B	9.95395 ng/mL	
							BFS_A3B2	13.0974 ng/mL	
							BFS_A4B	5.5009 ng/mL	
							BFS_AB2	8.9062 ng/mL	
							BFS_AB3	74.3928 ng/mL	
							BFS_B3	31.6956 ng/mL	
							BFS_B4	17.2885 ng/mL	
						PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
							..PFC_ST_BFS_00003	02/14/23	Solvay, Lot BFS 1206SI
						BFS_A2B3	26195 ng/mL		
						BFS_A3B	199079 ng/mL		
						BFS_A3B2	261947 ng/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS8_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS9_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.2 mL	BFS A2B2	277.663 ng/mL
							BFS A2B3	5.239 ng/mL
							BFS A3B	39.8158 ng/mL
							BFS A3B2	52.3894 ng/mL
							BFS A4B	22.0036 ng/mL
							BFS_AB2	35.6248 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	297.571 ng/mL
							BFS B3	126.782 ng/mL
							BFS B4	69.154 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_MFS1_00009	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.025 mL	MFS_N2	0.240983 ng/mL
							MFS_M3	0.246191 ng/mL
							MFS_N3	0.250322 ng/mL
							MFS_M4	0.245407 ng/mL
							MFS_N4	0.248788 ng/mL
							MFS_N5	0.252449 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS_N2	96.3932 ng/mL
							MFS_M3	98.4766 ng/mL
							MFS_N3	100.129 ng/mL
							MFS_M4	98.1629 ng/mL
							MFS_N4	99.5152 ng/mL
							MFS_N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS_N2	1927.86 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS2_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.05 mL	MFS_N2	0.481966 ng/mL
							MFS_M3	0.492383 ng/mL
							MFS_N3	0.500644 ng/mL
							MFS_M4	0.490814 ng/mL
							MFS_N4	0.497576 ng/mL
							MFS_N5	0.504897 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS_M3	1969.53 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS3_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL
							MFS_M3	0.984766 ng/mL
							MFS_N3	1.00129 ng/mL
							MFS_M4	0.981629 ng/mL
							MFS_N4	0.995152 ng/mL
							MFS_N5	1.00979 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS_N4	1990.3 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N5	2019.59 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00030	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN_MFS_00031	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN_MFS_00032	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN_MFS_00033	0.5 mL	MFS N4	49757.6 ng/mL
....PFC_IN_MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N5	50489.7 ng/mL
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	963932 ug/L
....PFC_IN_MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	952502 mg/Kg
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	984766 ug/L
....PFC_IN_MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	961685 mg/Kg
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	1001290 ug/L
....PFC_IN_MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	964633 mg/Kg
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	981629 ug/L
....PFC_IN_MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS M4	969989 mg/Kg
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	995152 ug/L
....PFC_IN_MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N4	971828 mg/Kg
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	1009790 ug/L
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	MFS N5	976590 mg/Kg
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	500 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C3 HFPO-DA	5000 ng/mL
							13C2 PFOA	2000 ng/mL
PFC_STD_MFS4_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.5 mL	MFS N2	4.81966 ng/mL
							MFS M3	4.92383 ng/mL
							MFS N3	5.00644 ng/mL
							MFS M4	4.90814 ng/mL
							MFS N4	4.97576 ng/mL
							MFS N5	5.04897 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN_MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN_MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN_MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_IN MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC_IN MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC_IN MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		PFC_INT_00012	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		PFC_ST_01680	0.025 mL	13C2 PFOA	50000 ng/mL
PFC_STD_MFS5_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	1 mL	MFS N2	9.63932 ng/mL
							MFS M3	9.84766 ng/mL
							MFS N3	10.0129 ng/mL
							MFS M4	9.81629 ng/mL
							MFS N4	9.95152 ng/mL
							MFS N5	10.0979 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS_N3	1001290 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS6_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	2.5 mL	MFS N2	24.0983 ng/mL
							MFS M3	24.6191 ng/mL
							MFS N3	25.0322 ng/mL
							MFS M4	24.5407 ng/mL
							MFS N4	24.8788 ng/mL
							MFS N5	25.2449 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS_N5	1009790 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS7_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	5 mL	MFS N2	48.1966 ng/mL
							MFS M3	49.2383 ng/mL
							MFS N3	50.0644 ng/mL
							MFS M4	49.0814 ng/mL
							MFS N4	49.7576 ng/mL
							MFS N5	50.4897 ng/mL
					PFC_INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

Reagent

PFC_ST_01249



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

- Table A: Components and Concentrations of the Solution/Mixture
- Figure 1: LC/MS Data (SIR)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

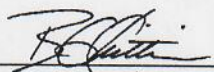
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

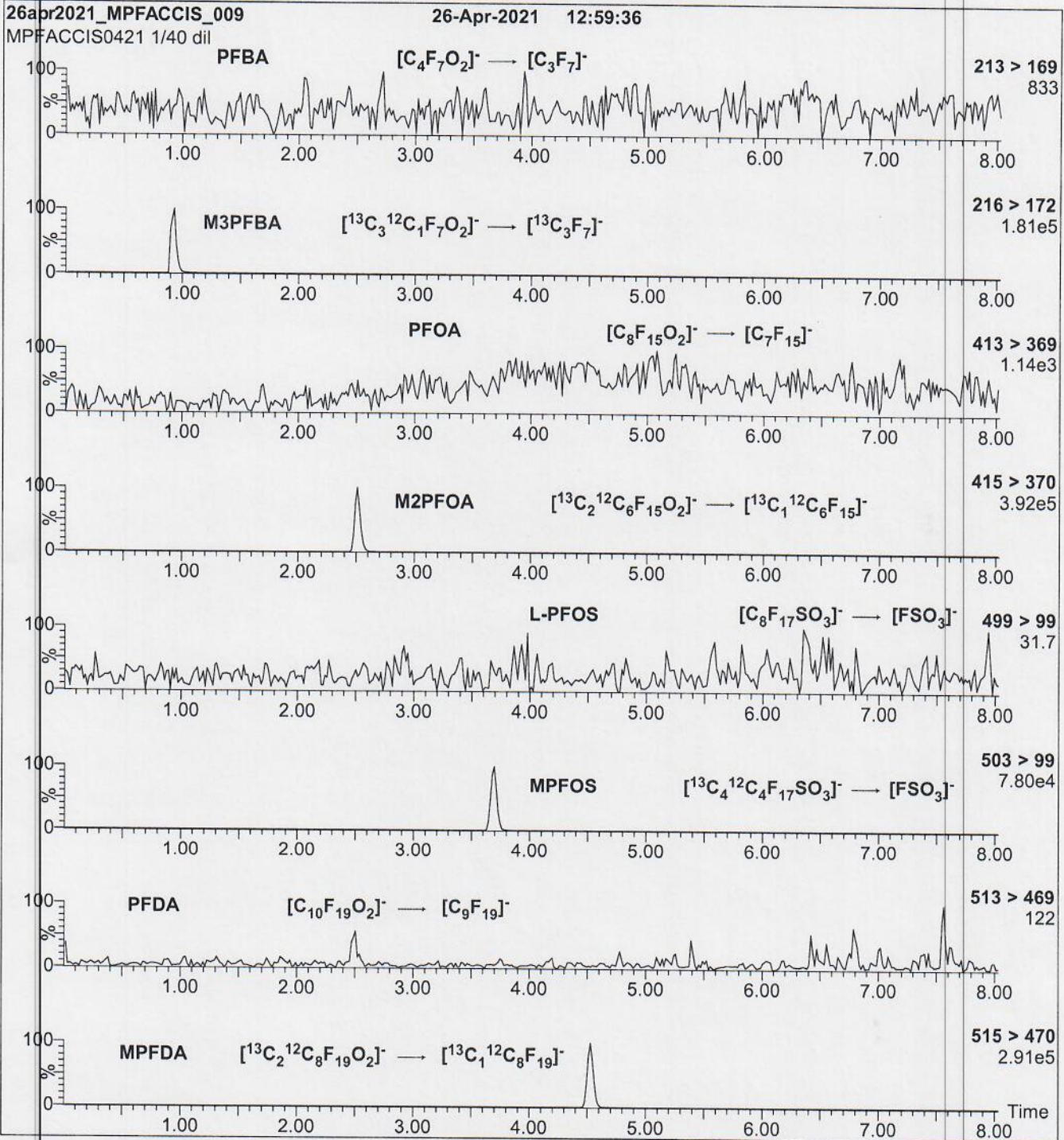
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01410



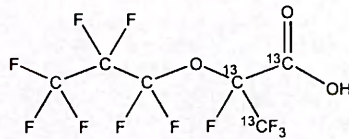
WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

AFC-ST-01410

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA1121
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)^(13C₃)propanoic acid

STRUCTURE: **CAS #:** Not available



410-2416299

MOLECULAR FORMULA: ¹³C₃¹²C₃HF₁₁O₃ **MOLECULAR WEIGHT:** 333.03
CONCENTRATION: 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 11/11/2021
EXPIRY DATE: (mm/dd/yyyy) 11/11/2024
RECOMMENDED STORAGE: Refrigerate ampoule

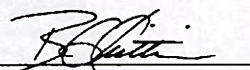
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 11/16/2021
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

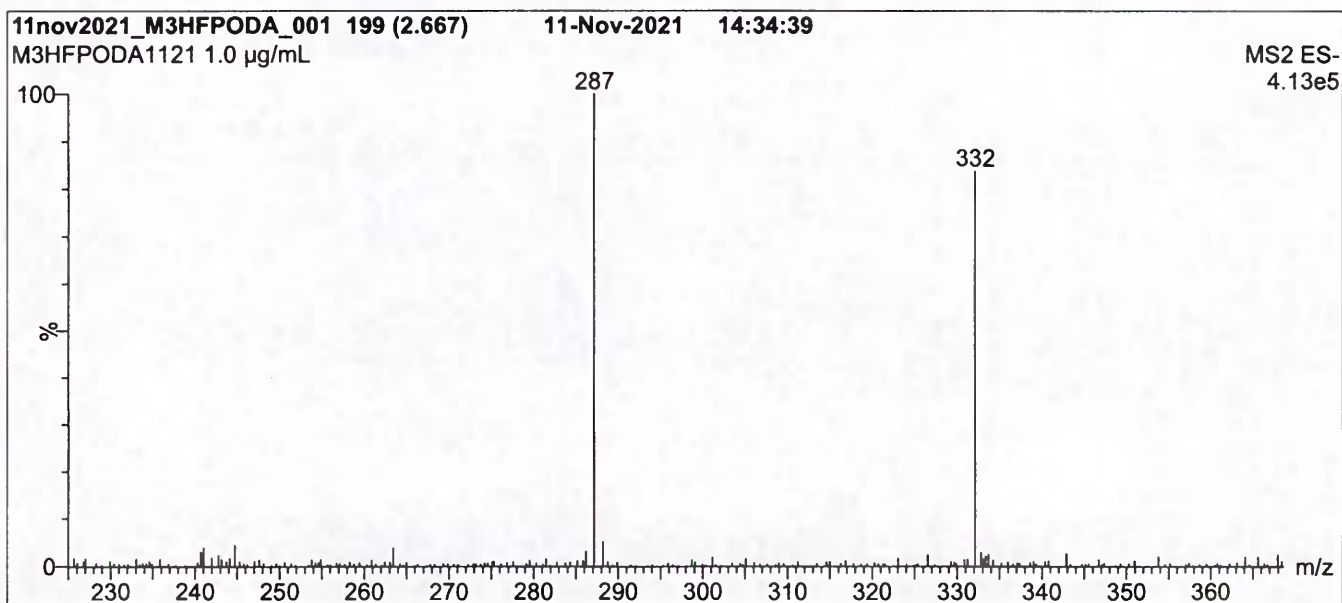
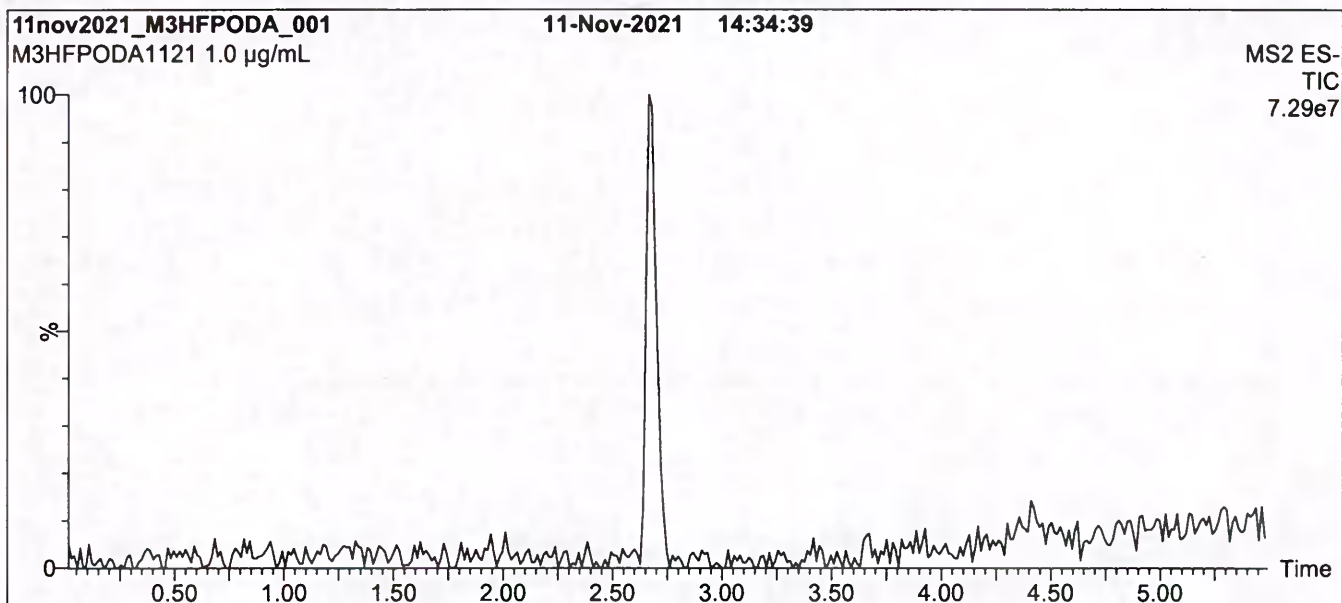
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M3HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H₂O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.75 min.
Time: 12 min

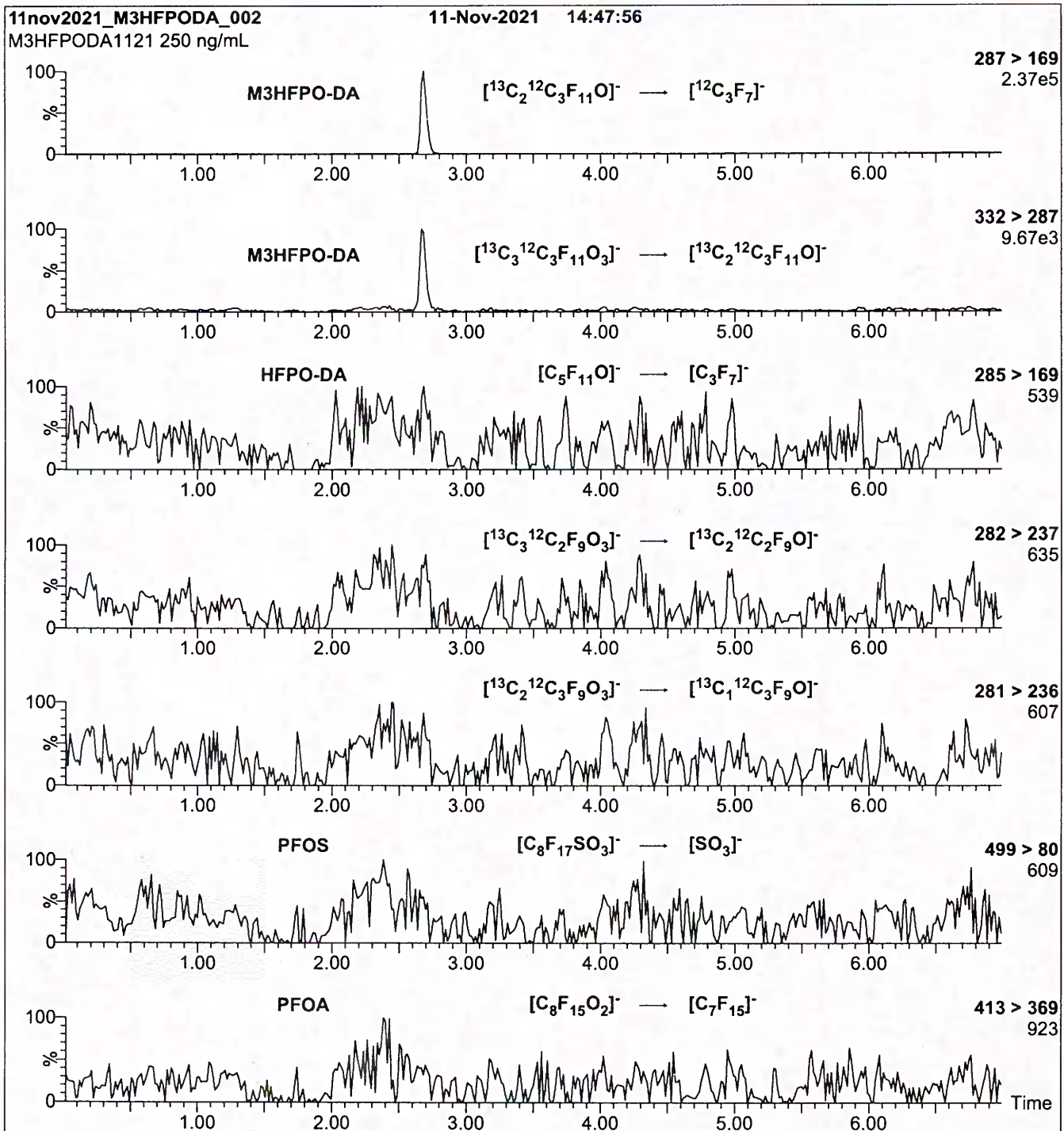
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (M3HFPO-DA)
Mobile phase: Same as Figure 1
Flow: 300 $\mu\text{L}/\text{min}$

MS Parameters:

Collision Gas (mbar) = 3.37e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_01597



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2748760
ID: PFC_ST_01597
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
 Figure 1: LC/MS Data (SIR)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

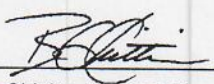
- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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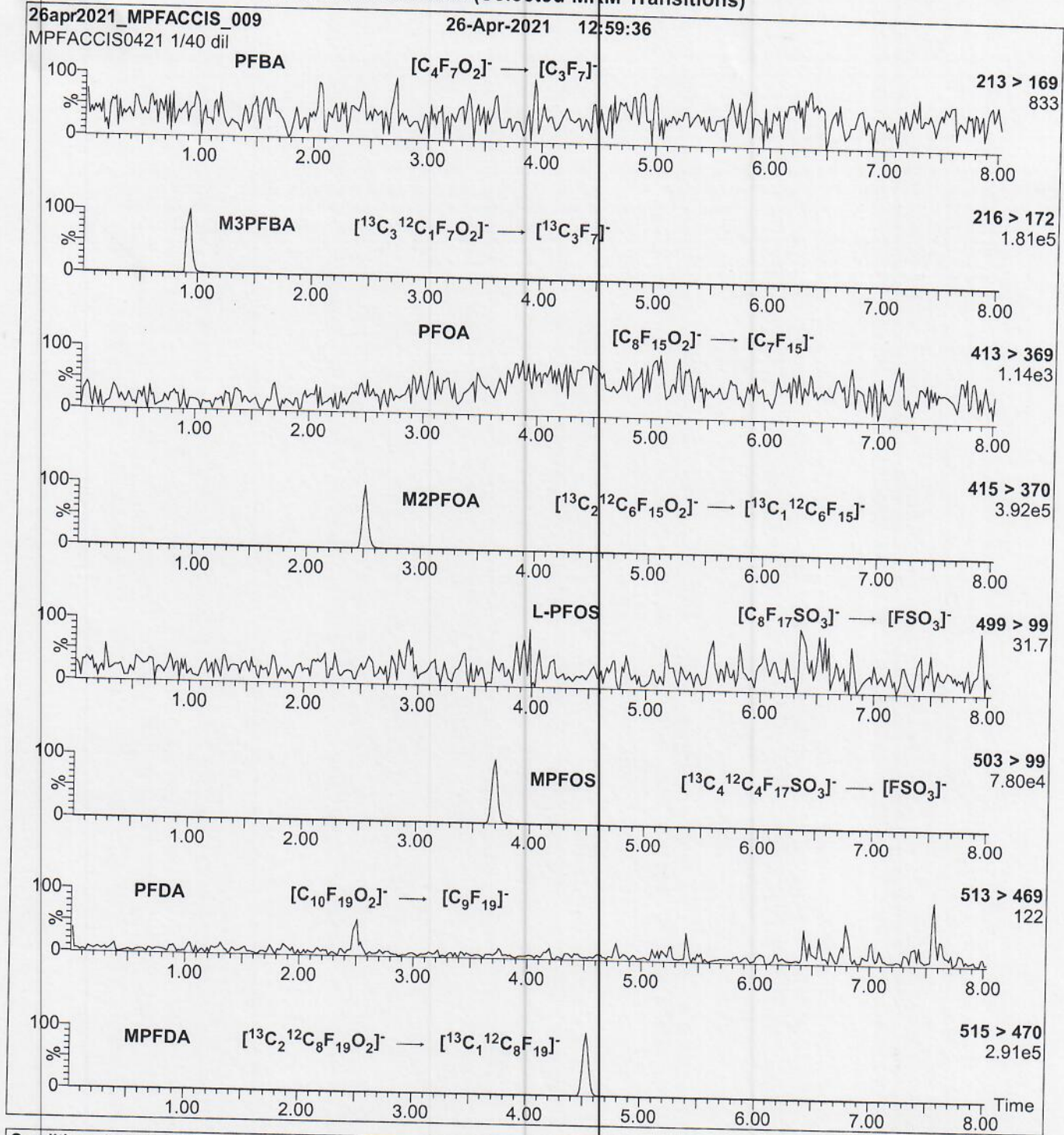
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
Mobile phase: Same as Figure 1
Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01680



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**


2858245
ID: PFC_ST_01680
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

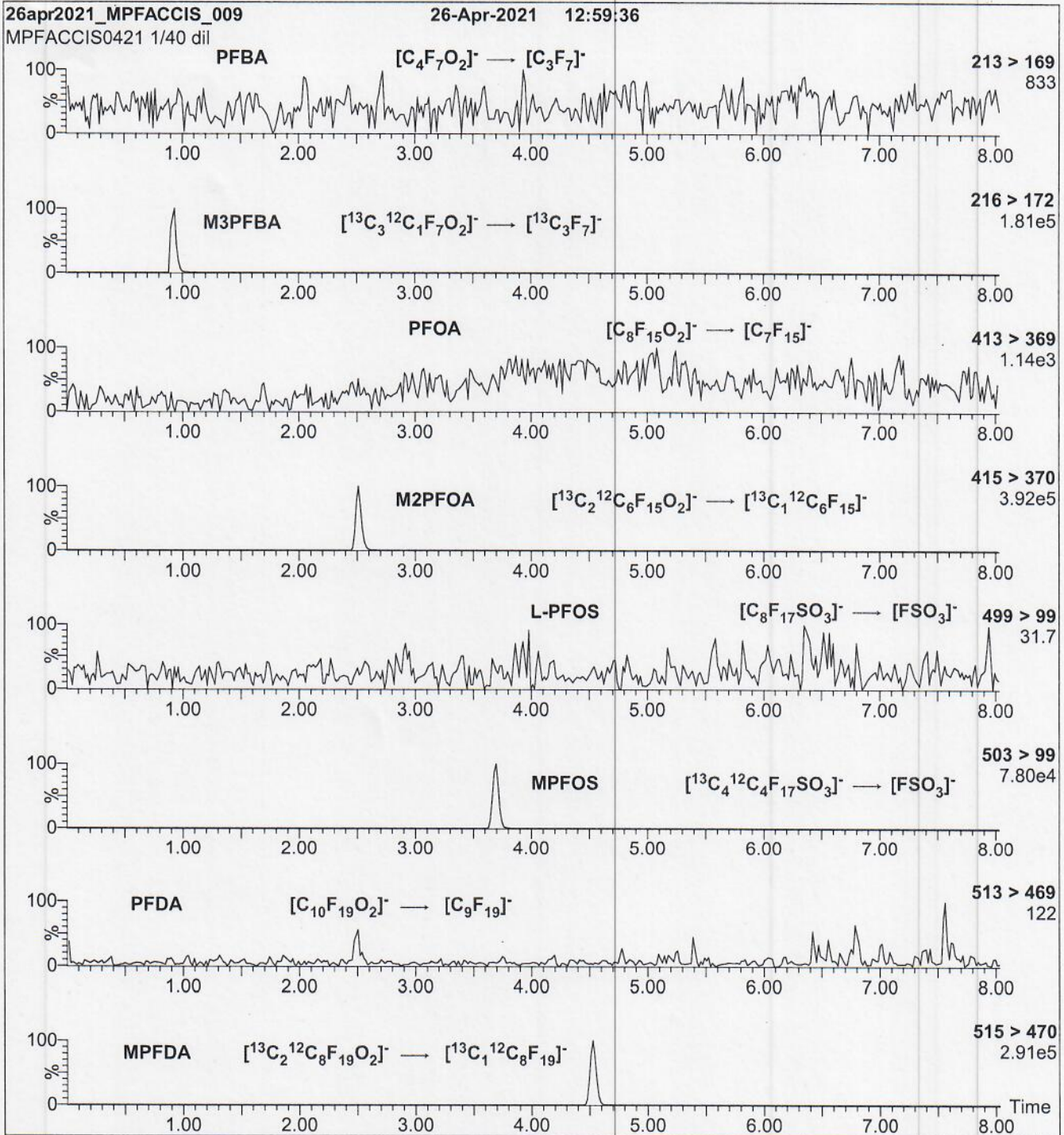
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01726



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2984963
ID: PFC_ST_01726
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

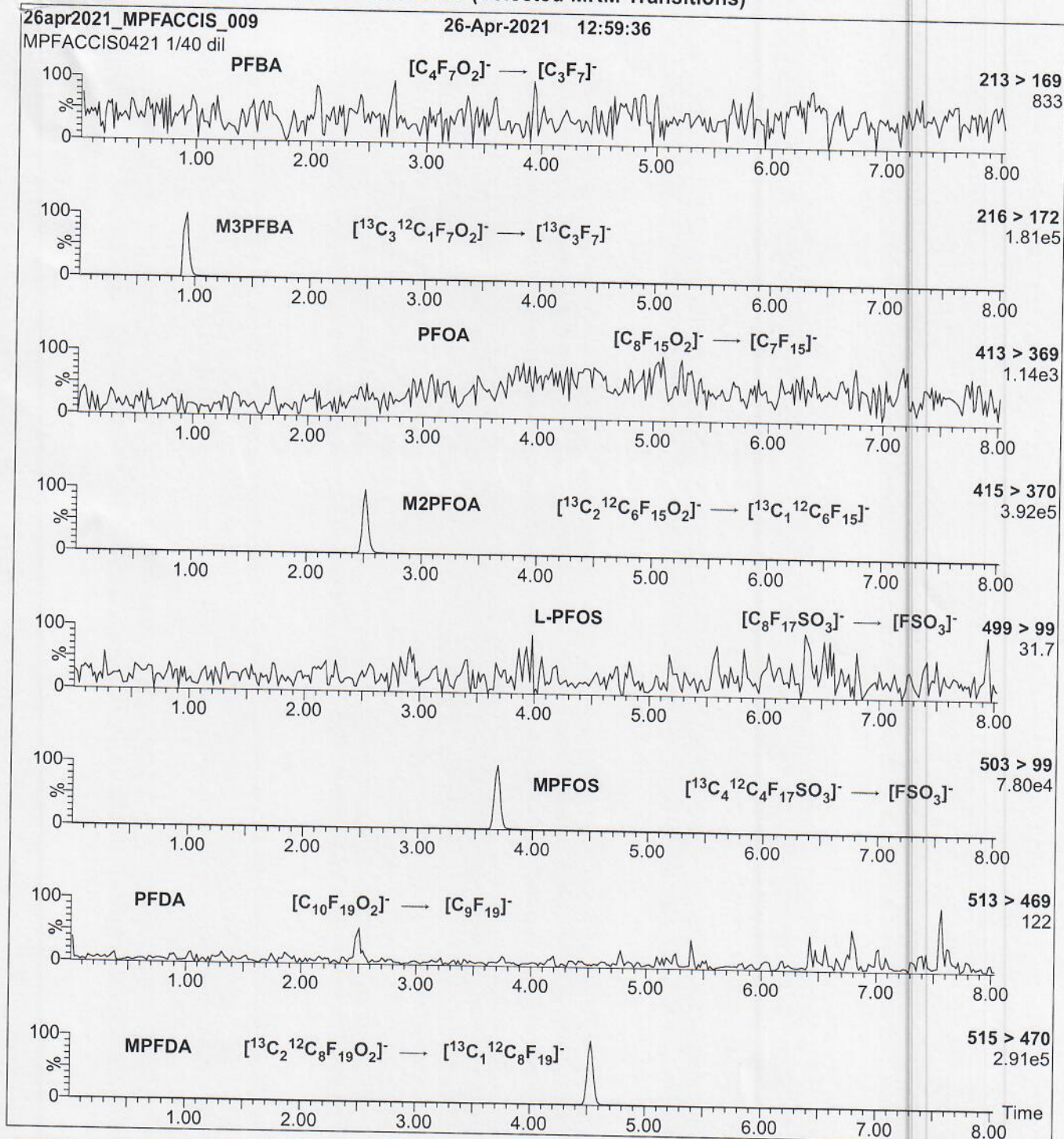
Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

BFS_IDA

**Bi-functional Surfactants (BFS) by
LC/MS/MS using Isotope Dilution**

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-102D	410-90529-1	89
MW-118S	410-90529-2	97
MW-118D	410-90529-3	95
MW-101S	410-90529-4	97
MW-101D	410-90529-5	72
MW-107S	410-90529-6	122
MW-107D	410-90529-7	125
MW-109S	410-90529-8	109
MW-109S DL	410-90529-8 DL	98
MW-109D	410-90529-9	105
EB_070822	410-90529-10	101
	MB 410-279981/1-A	111
	LCS 410-279981/2-A	100
MW-102D_MS MS	410-90529-1 MS	94
MW-102D_MSD MSD	410-90529-1 MSD	92

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG05BFS-04.d

Lab ID: LCS 410-279981/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	259	104	70-130	
BFS_A2B3	4.72	4.74	100	70-130	
BFS_A3B	35.8	38.0	106	70-130	
BFS_A3B2	47.2	50.1	106	70-130	
BFS_A4B	19.8	18.9	95	70-130	
BFS_AB2	32.1	36.0	112	70-130	
BFS_AB3	268	266	99	70-130	
BFS_B3	114	115	101	70-130	
BFS_B4	62.2	62.2	100	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90529-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22AUG05BFS-06.d

Lab ID: 410-90529-1 MS

Client ID: MW-102D_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
BFS_A2B2	204	ND	530	259	70-130	F1
BFS_A2B3	3.85	ND	7.92	205	70-130	F1
BFS_A3B	29.3	ND	82.8	283	70-130	F1
BFS_A3B2	38.5	ND	85.9	223	70-130	F1
BFS_A4B	16.2	ND	38.9	241	70-130	F1
BFS_AB2	26.2	0.34 J	80.1	305	70-130	F1
BFS_AB3	219	0.42 J	489	223	70-130	F1
BFS_B3	93.3	0.40 J	247	264	70-130	F1
BFS_B4	50.9	ND	110	217	70-130	F1

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90529-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22AUG05BFS-07.d

Lab ID: 410-90529-1 MSD

Client ID: MW-102D_MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	211	540	256	2	30	70-130	F1
BFS_A2B3	3.98	8.06	202	2	30	70-130	F1
BFS_A3B	30.3	86.7	287	5	30	70-130	F1
BFS_A3B2	39.8	92.6	233	8	30	70-130	F1
BFS_A4B	16.7	41.4	247	6	30	70-130	F1
BFS_AB2	27.1	83.0	305	4	30	70-130	F1
BFS_AB3	226	486	214	1	30	70-130	F1
BFS_B3	96.4	245	253	1	30	70-130	F1
BFS_B4	52.6	113	215	3	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90529-1

SDG No.:

Lab File ID: 22AUG05BFS-03.d

Lab Sample ID: MB 410-279981/1-A

Matrix: Water

Date Extracted: 07/27/2022 10:12

Instrument ID: 30733

Date Analyzed: 08/09/2022 03:11

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-279981/2-A	22AUG05BFS-04.d	08/09/2022 03:24
MW-102D	410-90529-1	22AUG05BFS-05.d	08/09/2022 03:37
MW-102D_MS MS	410-90529-1 MS	22AUG05BFS-06.d	08/09/2022 03:49
MW-102D_MSD MSD	410-90529-1 MSD	22AUG05BFS-07.d	08/09/2022 04:02
MW-118S	410-90529-2	22AUG05BFS-08.d	08/09/2022 04:14
MW-118D	410-90529-3	22AUG05BFS-09.d	08/09/2022 04:27
MW-101S	410-90529-4	22AUG05BFS-10.d	08/09/2022 04:40
MW-101D	410-90529-5	22AUG05BFS-11.d	08/09/2022 04:52
MW-107S	410-90529-6	22AUG05BFS-12.d	08/09/2022 05:05
MW-107D	410-90529-7	22AUG05BFS-13.d	08/09/2022 05:18
MW-109S	410-90529-8	22AUG05BFS-14.d	08/09/2022 05:30
MW-109D	410-90529-9	22AUG05BFS-16.d	08/09/2022 05:55
EB_070822	410-90529-10	22AUG05BFS-17.d	08/09/2022 06:08
MW-109S DL	410-90529-8 DL	22AUG10BFS-17.d	08/11/2022 06:09

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90529-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3 (mm) Calibration End Date: 08/09/2022 01:56
 Calibration ID: 41560

		13PFOA			
		AREA #	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3030427	5.00		
UPPER LIMIT		4545641	5.40		
LOWER LIMIT		1515214	4.60		
LAB SAMPLE ID	CLIENT SAMPLE ID				
ICB 410-283892/11		3466306	5.00		
ICV 410-283892/12		2968895	5.00		
CCVL 410-283897/1		3128234	4.99		
CCV 410-283897/2		3045624	5.00		
MB 410-279981/1-A		3132855	4.99		
LCS 410-279981/2-A		3267519	5.00		
410-90529-1	MW-102D	2875128	5.00		
410-90529-1 MS	MW-102D_MS MS	2753226	4.99		
410-90529-1 MSD	MW-102D_MSD MSD	2647652	5.00		
410-90529-2	MW-118S	2905460	4.99		
410-90529-3	MW-118D	2848378	5.00		
410-90529-4	MW-101S	2815993	5.00		
410-90529-5	MW-101D	3064961	5.00		
410-90529-6	MW-107S	2405301	5.00		
410-90529-7	MW-107D	2320940	5.00		
410-90529-8	MW-109S	2722691	5.00		
CCV 410-283897/15		2949433	4.99		
410-90529-9	MW-109D	2659088	5.00		
410-90529-10	EB_070822	3026266	5.00		
CCV 410-283897/18		3039669	4.99		
CCVL 410-284701/1		3091607	5.00		
CCV 410-284701/16		3117285	4.99		
410-90529-8 DL	MW-109S DL	3509461	5.00		
CCV 410-284701/28		3051612	4.99		

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102D Lab Sample ID: 410-90529-1

Matrix: Water Lab File ID: 22AUG05BFS-05.d

Analysis Method: BFS Date Collected: 07/07/2022 16:45

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 304.3(mL) Date Analyzed: 08/09/2022 03:37

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	F1	1.2	0.33
STL02887	BFS_A2B3	ND	F1	0.90	0.33
STL02880	BFS_A3B	ND	F1	0.49	0.16
STL02885	BFS_A3B2	ND	F1	0.66	0.16
STL02883	BFS_A4B	ND	F1	0.33	0.16
STL02879	BFS_AB2	0.34	J F1	0.49	0.066
STL02884	BFS_AB3	0.42	J F1	1.2	0.33
STL02881	BFS_B3	0.40	J F1	0.58	0.25
STL02886	BFS_B4	ND	F1	0.90	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-05.d
 Lims ID: 410-90529-B-1-D
 Client ID: MW-102D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 03:37:08 ALS Bottle#: 15 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-1-D
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:14:48
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.962	3.961	0.001	0.902	14479	0.1028	376	
3 BFS_B3	553.00 > 345.00	4.203	4.201	0.002	0.957	8181	0.1207	59.0	M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.391	4.389	0.002	0.878	545186	4.43	88.5	339
7 BFS_AB3	619.00 > 229.00	4.567	4.565	0.002	1.040	9639	0.1288	75.9	
9 BFS_B4	669.00 > 461.00	4.809	4.793	0.016	1.095	5130	0.0966	56.2	
* 11 13C2 PFOA	415.00 > 370.00	4.999	4.997	0.002		2875128	5.00	353	

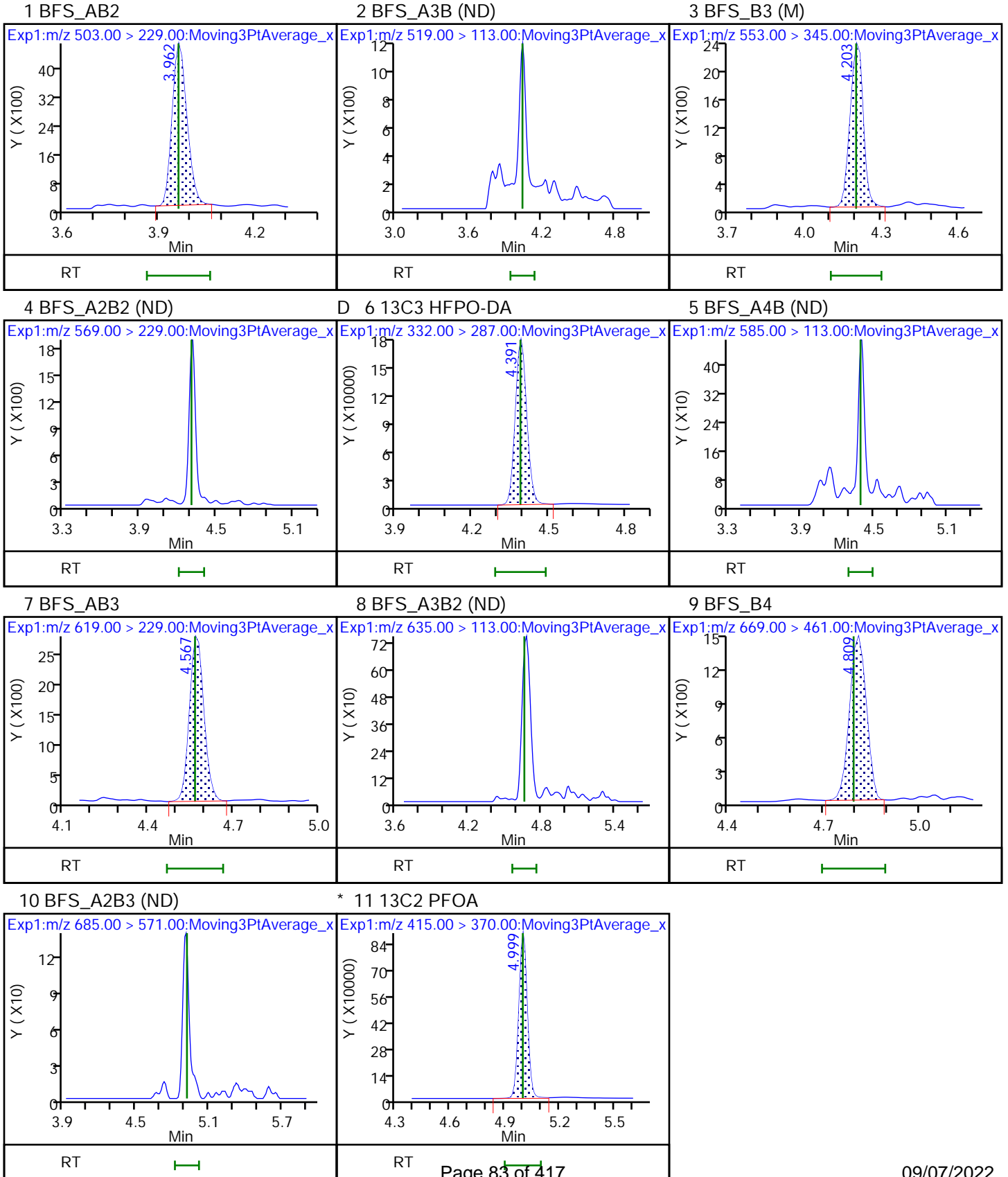
QC Flag Legend

Processing Flags
 Review Flags
 M - Manually Integrated

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-05.d
Injection Date: 09-Aug-2022 03:37:08 Instrument ID: 30733
Lims ID: 410-90529-B-1-D Lab Sample ID: 410-90529-1
Client ID: MW-102D
Operator ID: US19_USR_INS20260 ALS Bottle#: 15 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

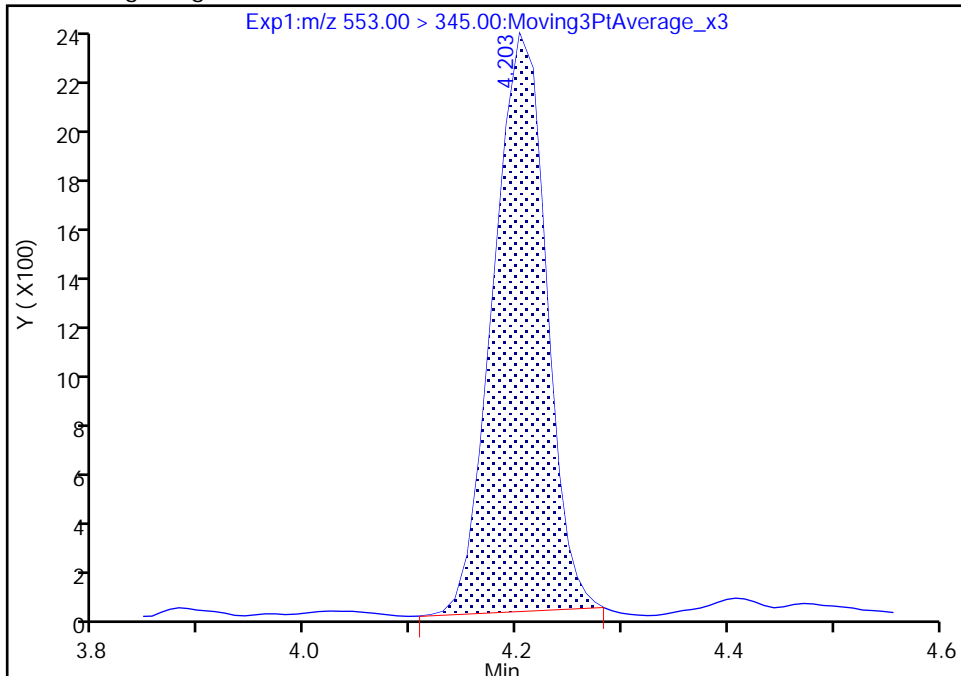
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Injection Date: 09-Aug-2022 03:37:08 Instrument ID: 30733
Lims ID: 410-90529-B-1-D Lab Sample ID: 410-90529-1
Client ID: MW-102D
Operator ID: US19_USR_INS20260 ALS Bottle#: 15 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

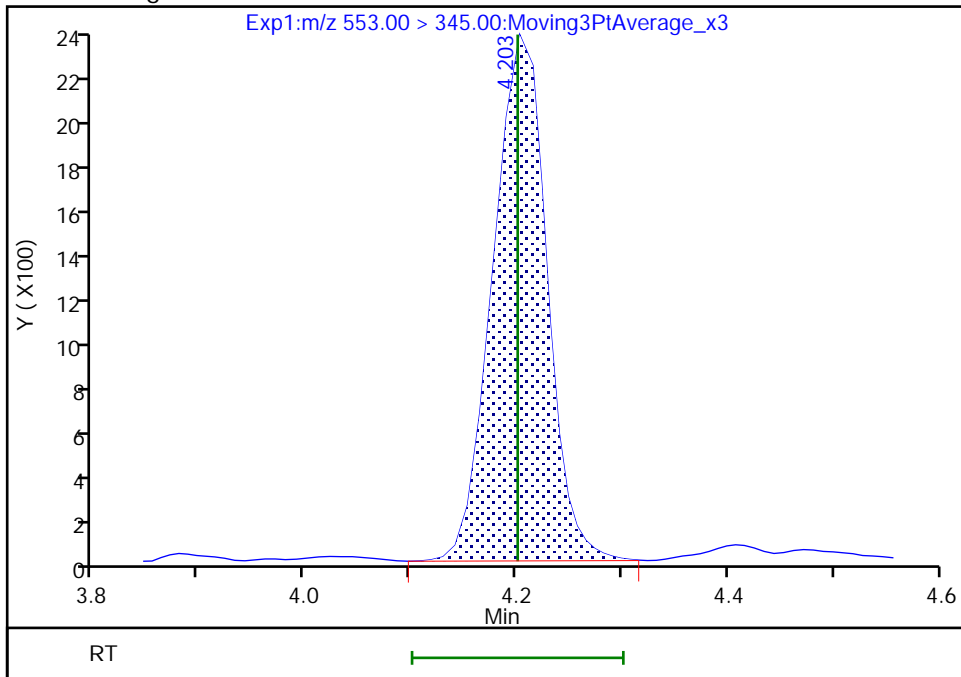
RT: 4.20
Area: 7986
Amount: 0.118612
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 8181
Amount: 0.120724
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 10:14:40
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-118S Lab Sample ID: 410-90529-2

Matrix: Water Lab File ID: 22AUG05BFS-08.d

Analysis Method: BFS Date Collected: 07/08/2022 10:40

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 296.4(mL) Date Analyzed: 08/09/2022 04:14

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.34
STL02887	BFS_A2B3	ND		0.93	0.34
STL02880	BFS_A3B	ND		0.51	0.17
STL02885	BFS_A3B2	ND		0.67	0.17
STL02883	BFS_A4B	ND		0.34	0.17
STL02879	BFS_AB2	ND		0.51	0.067
STL02884	BFS_AB3	ND		1.3	0.34
STL02881	BFS_B3	ND		0.59	0.25
STL02886	BFS_B4	ND		0.93	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-08.d
 Lims ID: 410-90529-B-2-B
 Client ID: MW-118S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 04:14:54 ALS Bottle#: 18 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-2-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:17:05
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.379	4.389	-0.010	0.878	602410	4.84	96.8	321
* 11 13C2 PFOA	415.00 > 370.00	4.988	4.997	-0.009		2905460	5.00		349

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-08.d

Injection Date: 09-Aug-2022 04:14:54

Instrument ID: 30733

Lims ID: 410-90529-B-2-B

Lab Sample ID: 410-90529-2

Client ID: MW-118S

Operator ID: US19_USR_INS20260

ALS Bottle#: 18

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

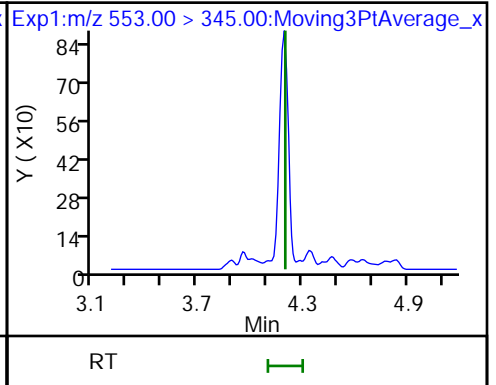
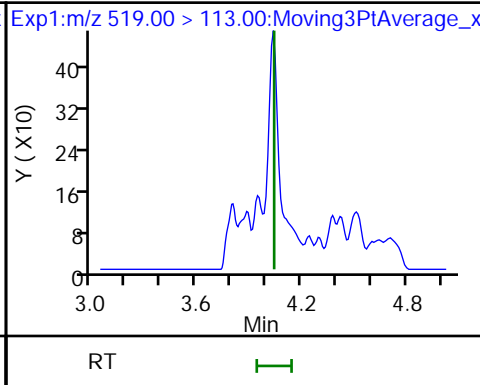
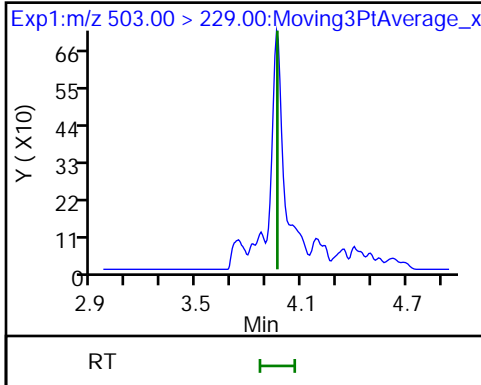
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

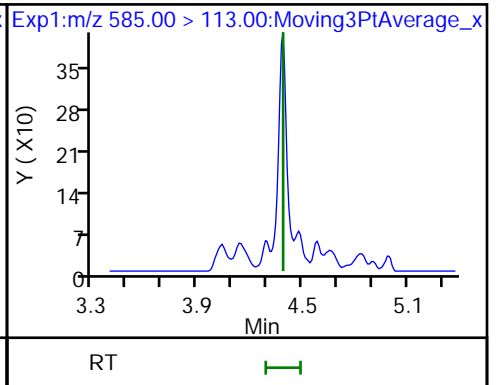
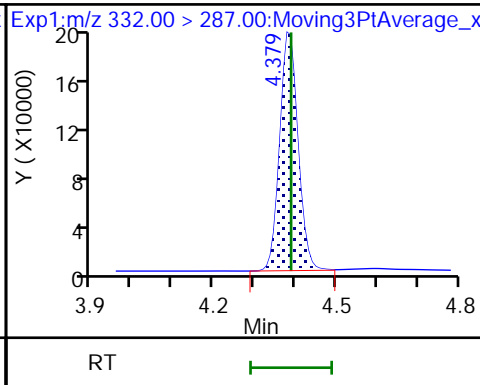
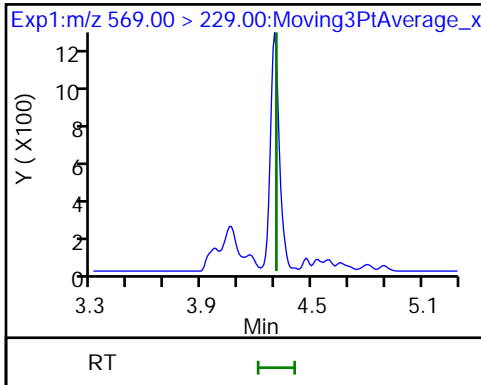
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

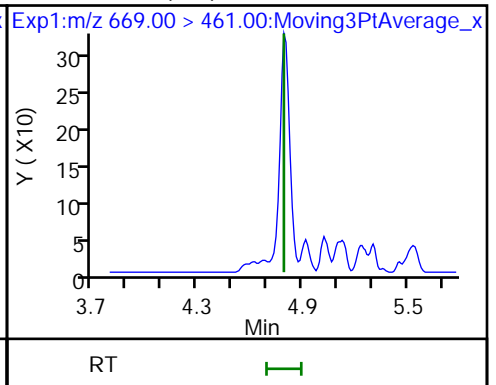
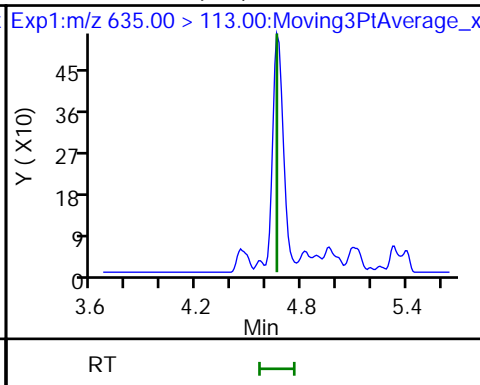
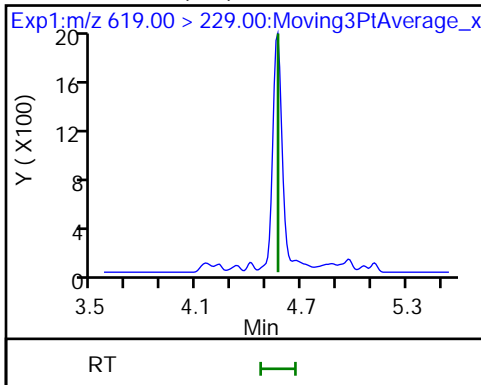
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

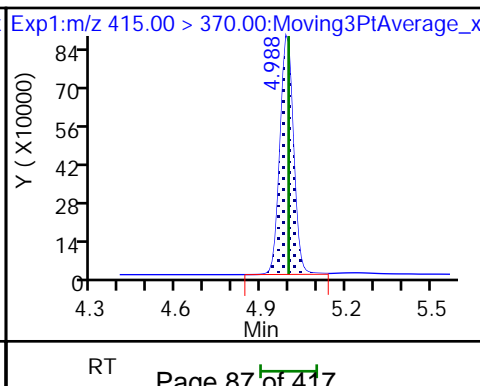
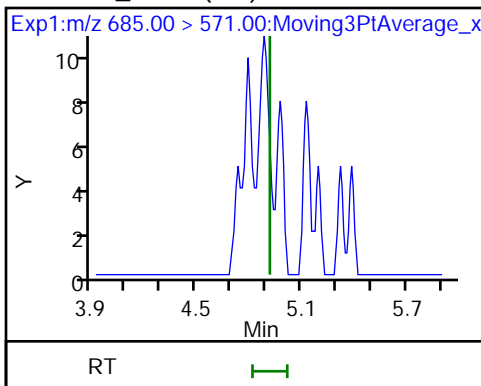
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-118D Lab Sample ID: 410-90529-3

Matrix: Water Lab File ID: 22AUG05BFS-09.d

Analysis Method: BFS Date Collected: 07/08/2022 11:35

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 287.5(mL) Date Analyzed: 08/09/2022 04:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.96	0.35
STL02880	BFS_A3B	ND		0.52	0.17
STL02885	BFS_A3B2	ND		0.70	0.17
STL02883	BFS_A4B	ND		0.35	0.17
STL02879	BFS_AB2	ND		0.52	0.070
STL02884	BFS_AB3	ND		1.3	0.35
STL02881	BFS_B3	ND		0.61	0.26
STL02886	BFS_B4	ND		0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-09.d
 Lims ID: 410-90529-B-3-B
 Client ID: MW-118D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 04:27:31 ALS Bottle#: 19 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-3-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:17:11
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.386	4.389	-0.003	0.878	581423	4.76	95.3	345
* 11 13C2 PFOA	415.00 > 370.00	4.995	4.997	-0.002		2848378	5.00		354

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-09.d

Injection Date: 09-Aug-2022 04:27:31

Instrument ID: 30733

Lims ID: 410-90529-B-3-B

Lab Sample ID: 410-90529-3

Client ID: MW-118D

Operator ID: US19_USR_INS20260

ALS Bottle#: 19

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

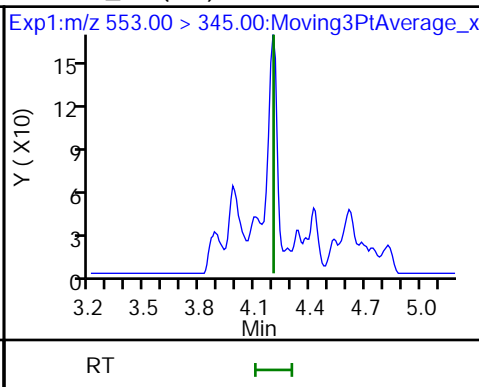
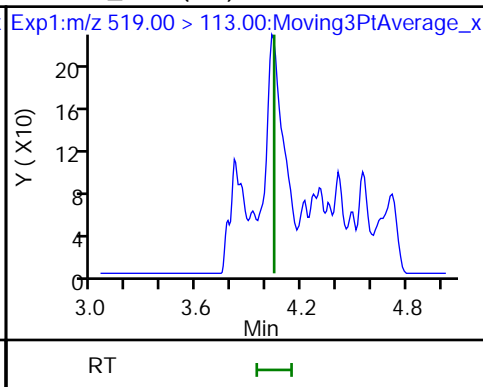
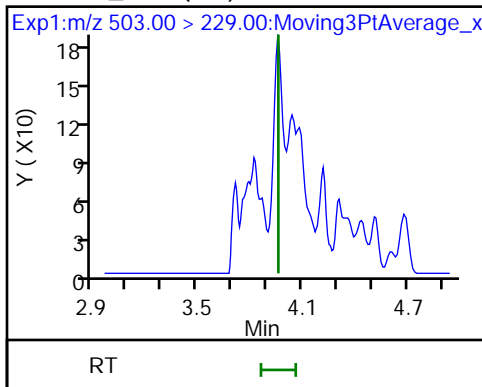
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

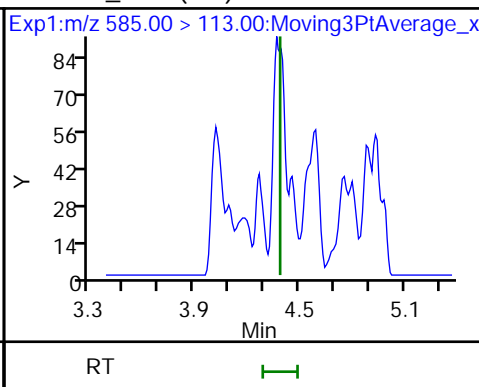
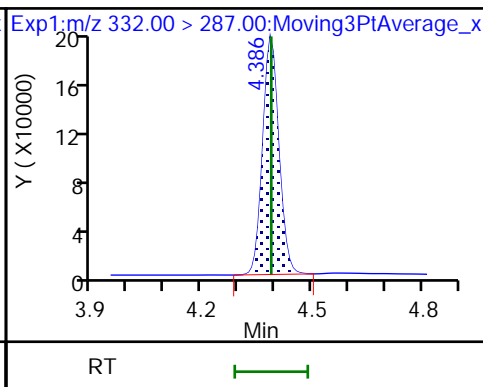
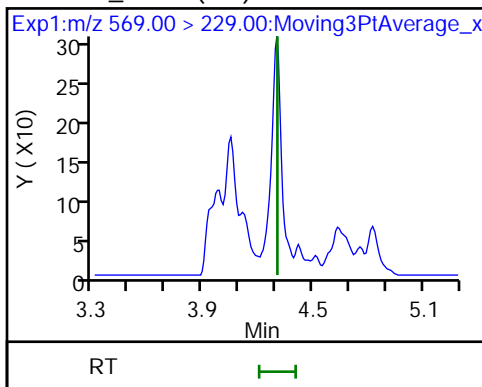
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

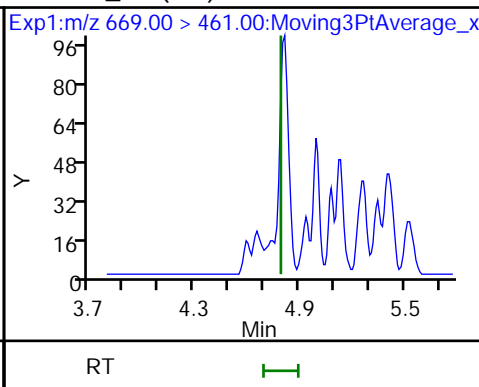
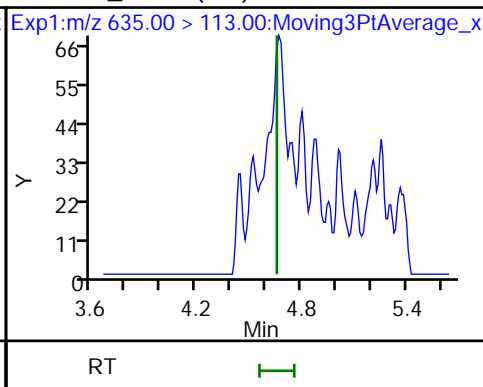
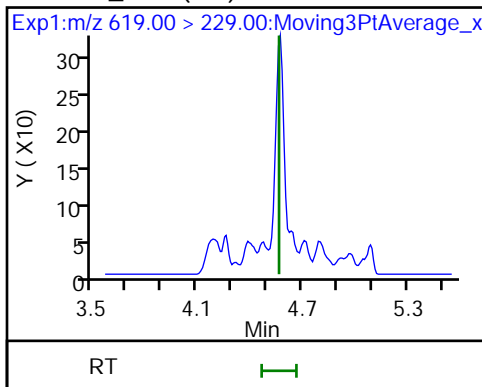
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

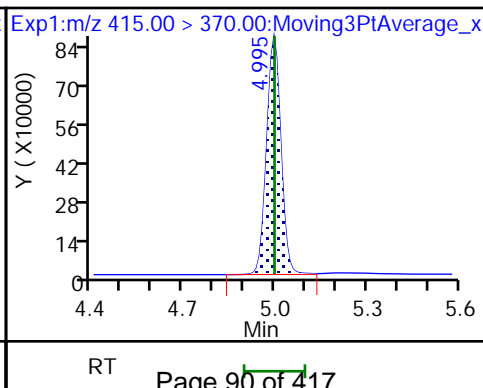
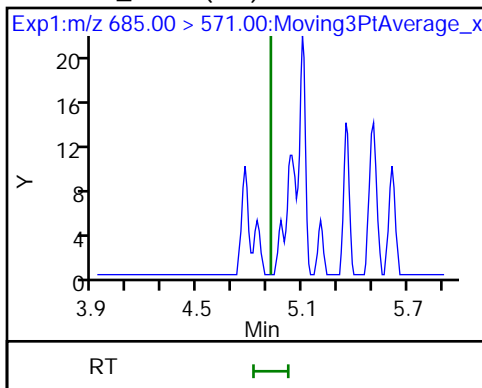
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-101S Lab Sample ID: 410-90529-4

Matrix: Water Lab File ID: 22AUG05BFS-10.d

Analysis Method: BFS Date Collected: 07/08/2022 10:25

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 277.1(mL) Date Analyzed: 08/09/2022 04:40

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1.7		1.3	0.36
STL02887	BFS_A2B3	ND		0.99	0.36
STL02880	BFS_A3B	0.70		0.54	0.18
STL02885	BFS_A3B2	ND		0.72	0.18
STL02883	BFS_A4B	ND		0.36	0.18
STL02879	BFS_AB2	1.8		0.54	0.072
STL02884	BFS_AB3	0.68	J	1.4	0.36
STL02881	BFS_B3	2.1		0.63	0.27
STL02886	BFS_B4	ND		0.99	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-10.d
 Lims ID: 410-90529-B-4-B
 Client ID: MW-101S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 04:40:08 ALS Bottle#: 20 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-4-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:17:19
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.969	3.961	0.008	0.905	74619	0.4870	1752	
2 BFS_A3B	519.00 > 113.00	4.041	4.043	-0.002	0.921	33106	0.1949	118	
3 BFS_B3	553.00 > 345.00	4.200	4.201	-0.001	0.957	54544	0.5831	251	
4 BFS_A2B2	569.00 > 229.00	4.304	4.305	-0.001	0.981	34891	0.4726	215	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.387	4.389	-0.002	0.878	584403	4.84	96.9	342
7 BFS_AB3	619.00 > 229.00	4.574	4.565	0.009	1.043	15740	0.1894	152	
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2815993	5.00	352	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-10.d

Injection Date: 09-Aug-2022 04:40:08

Instrument ID: 30733

Lims ID: 410-90529-B-4-B

Lab Sample ID: 410-90529-4

Client ID: MW-101S

Operator ID: US19_USR_INS20260

ALS Bottle#: 20

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

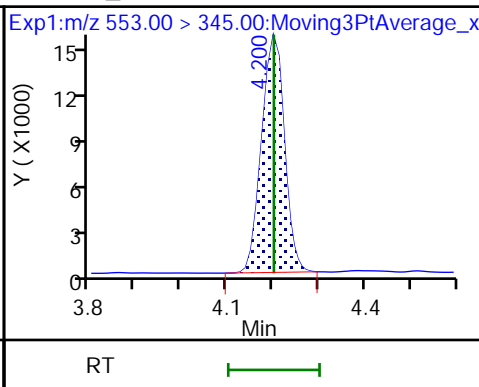
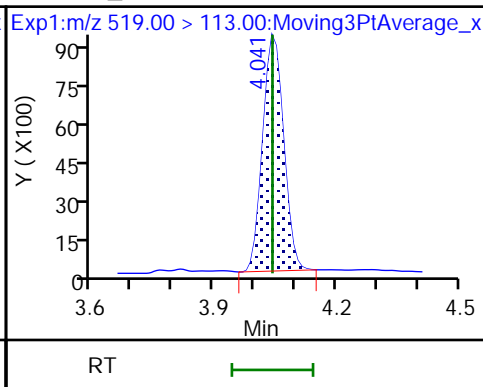
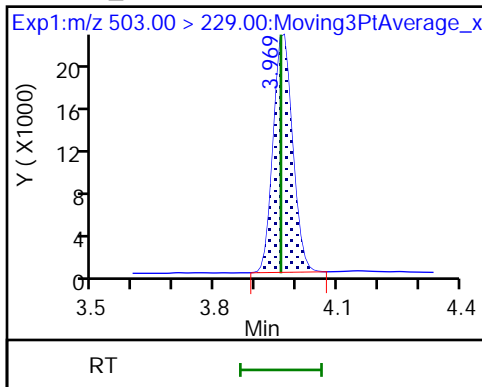
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

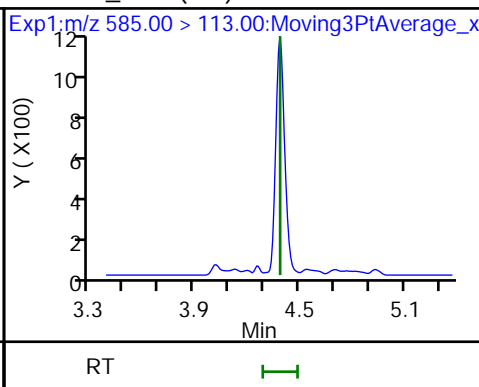
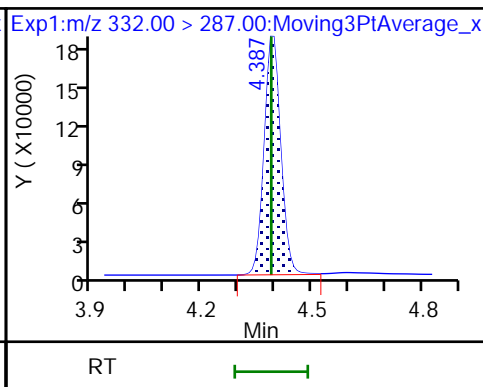
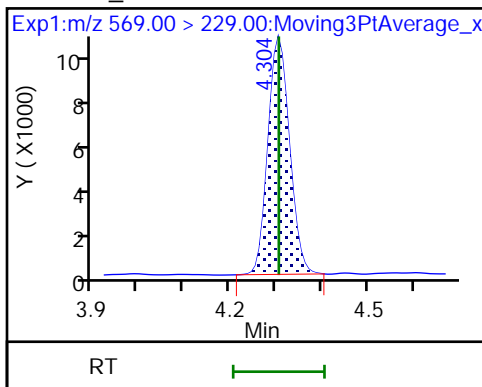
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

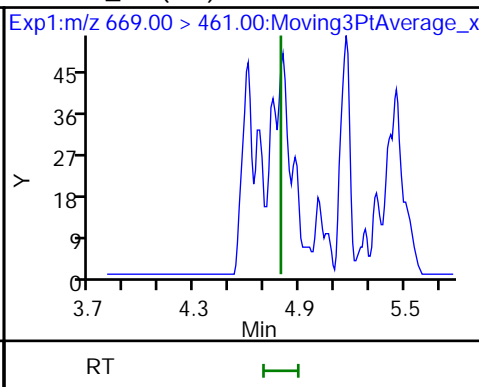
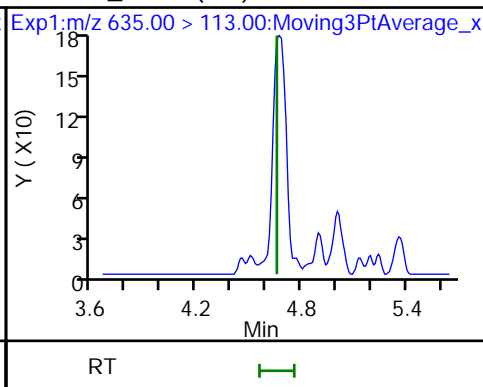
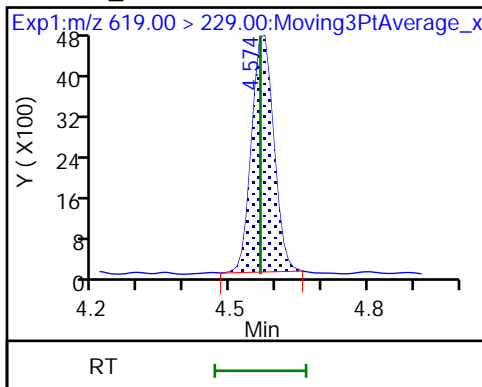
5 BFS_A4B (ND)



7 BFS_AB3

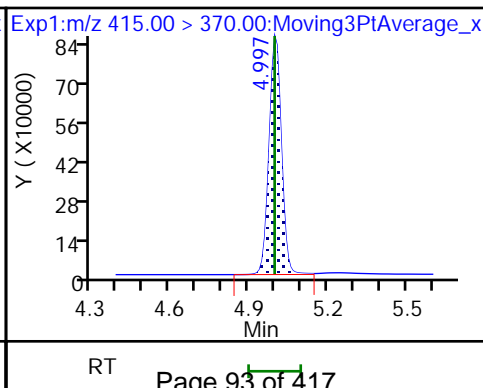
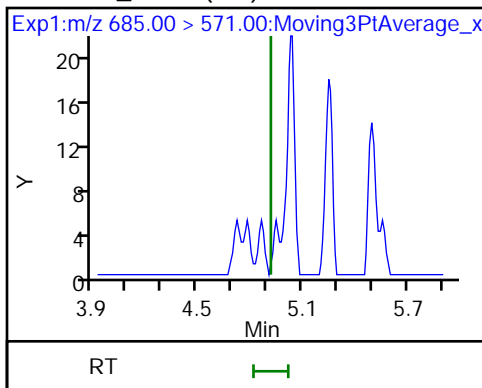
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-101D Lab Sample ID: 410-90529-5

Matrix: Water Lab File ID: 22AUG05BFS-11.d

Analysis Method: BFS Date Collected: 07/08/2022 12:50

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 286.8(mL) Date Analyzed: 08/09/2022 04:52

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.65	J	1.2	0.35
STL02887	BFS_A2B3	ND		0.96	0.35
STL02880	BFS_A3B	0.37	J	0.52	0.17
STL02885	BFS_A3B2	ND		0.70	0.17
STL02883	BFS_A4B	ND		0.35	0.17
STL02879	BFS_AB2	3.1		0.52	0.070
STL02884	BFS_AB3	0.77	J	1.3	0.35
STL02881	BFS_B3	0.97		0.61	0.26
STL02886	BFS_B4	ND		0.96	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-11.d
 Lims ID: 410-90529-B-5-B
 Client ID: MW-101D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 04:52:46 ALS Bottle#: 21 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-5-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:17:36
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.958	3.961	-0.003	0.902	110309	0.8850	2263	
2 BFS_A3B	519.00 > 113.00	4.040	4.043	-0.003	0.921	14348	0.1061	45.1	
3 BFS_B3	553.00 > 345.00	4.198	4.201	-0.003	0.957	19751	0.2779	110	
4 BFS_A2B2	569.00 > 229.00	4.302	4.305	-0.003	0.981	12940	0.1864	101	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.386	4.389	-0.003	0.878	474374	3.61	72.2	322
7 BFS_AB3	619.00 > 229.00	4.562	4.565	-0.003	1.040	14966	0.2197	89.9	
* 11 13C2 PFOA	415.00 > 370.00	4.996	4.997	-0.001		3064961	5.00	364	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-11.d

Injection Date: 09-Aug-2022 04:52:46

Instrument ID: 30733

Lims ID: 410-90529-B-5-B

Lab Sample ID: 410-90529-5

Client ID: MW-101D

Operator ID: US19_USR_INS20260

ALS Bottle#: 21

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

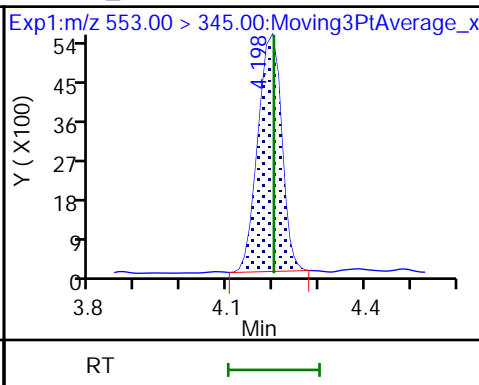
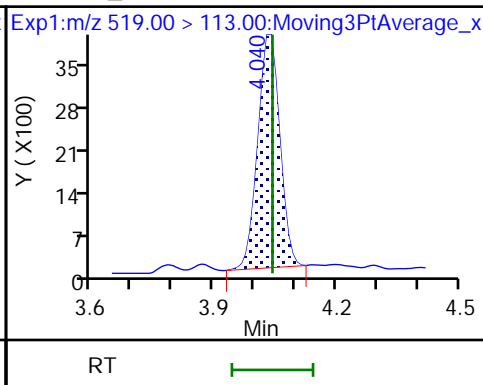
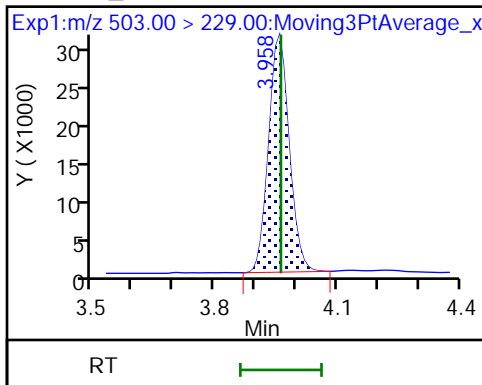
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

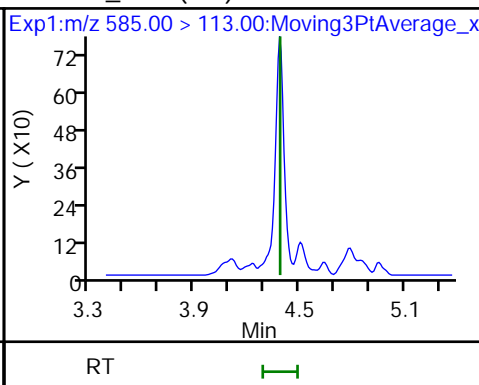
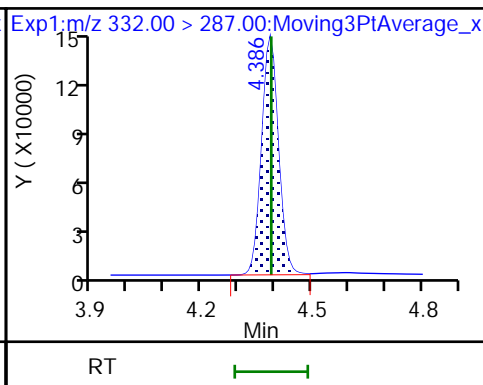
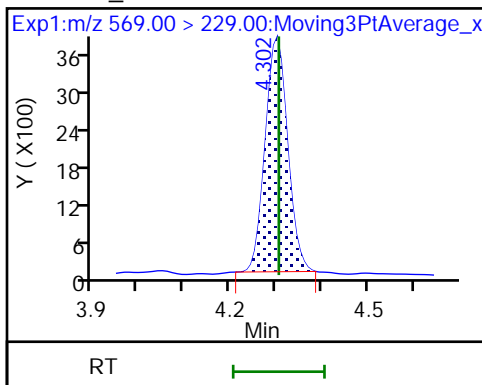
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

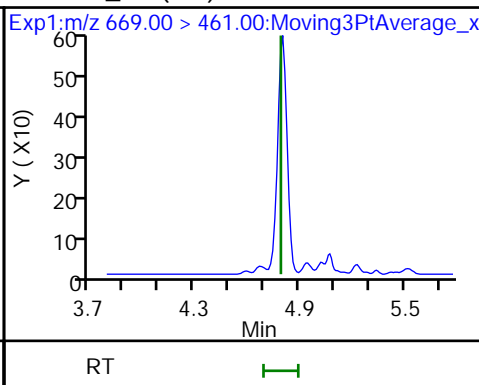
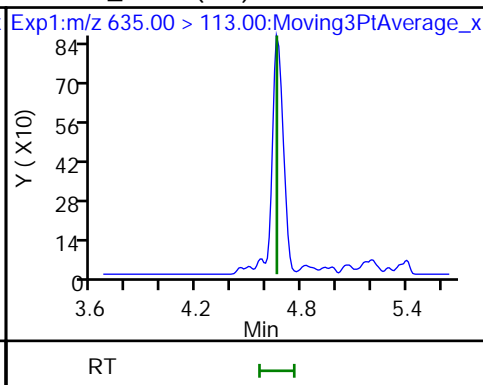
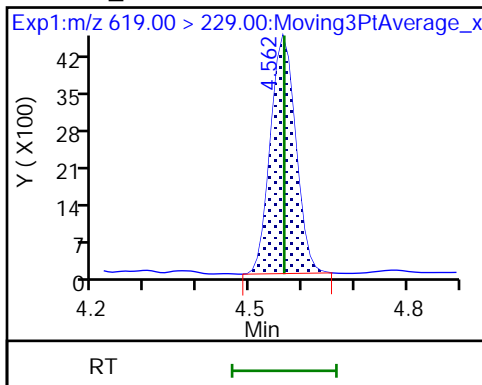
5 BFS_A4B (ND)



7 BFS_AB3

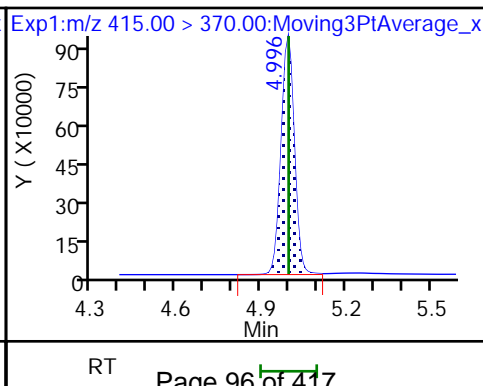
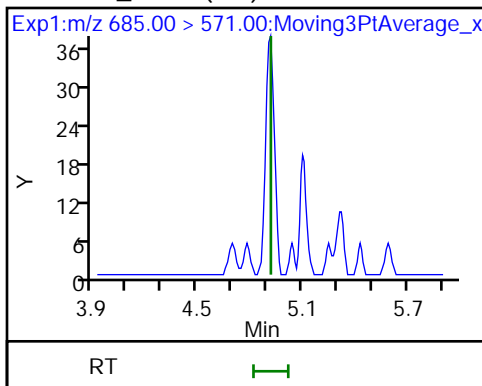
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-107S Lab Sample ID: 410-90529-6

Matrix: Water Lab File ID: 22AUG05BFS-12.d

Analysis Method: BFS Date Collected: 07/08/2022 14:30

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 299.4(mL) Date Analyzed: 08/09/2022 05:05

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.33
STL02887	BFS_A2B3	ND		0.92	0.33
STL02880	BFS_A3B	ND		0.50	0.17
STL02885	BFS_A3B2	ND		0.67	0.17
STL02883	BFS_A4B	ND		0.33	0.17
STL02879	BFS_AB2	ND		0.50	0.067
STL02884	BFS_AB3	ND		1.3	0.33
STL02881	BFS_B3	ND		0.58	0.25
STL02886	BFS_B4	ND		0.92	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	122		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-12.d
 Lims ID: 410-90529-B-6-B
 Client ID: MW-107S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 05:05:23 ALS Bottle#: 22 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-6-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:17:48
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.390 4.389 0.001 0.879 630573 6.12 122 380
 * 11 13C2 PFOA
 415.00 > 370.00 4.997 4.997 0.0 2405301 5.00 278

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-12.d

Injection Date: 09-Aug-2022 05:05:23

Instrument ID: 30733

Lims ID: 410-90529-B-6-B

Lab Sample ID: 410-90529-6

Client ID: MW-107S

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

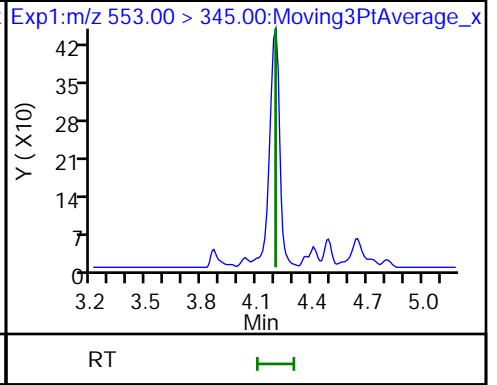
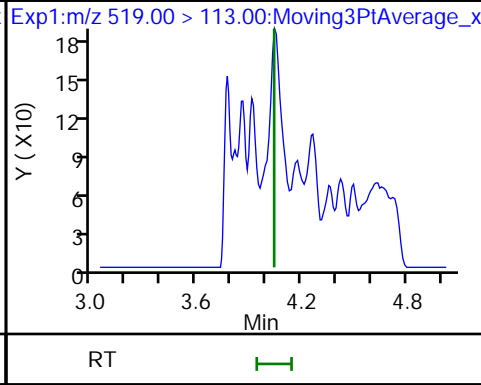
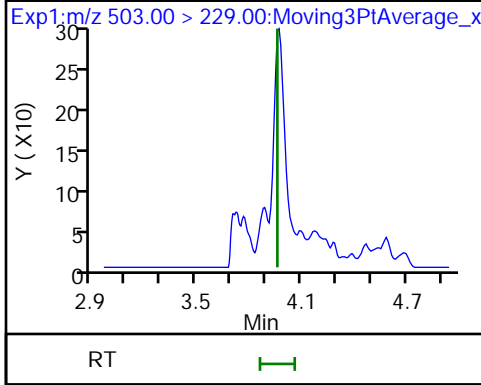
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

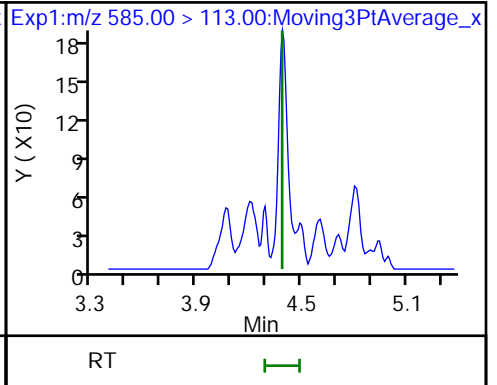
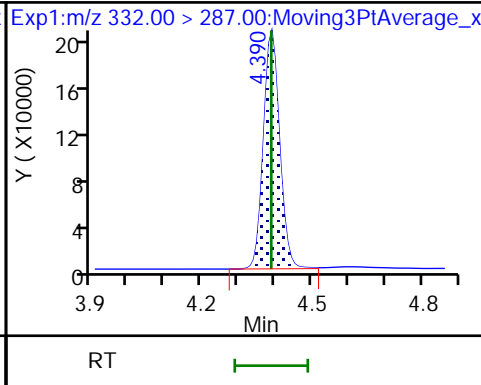
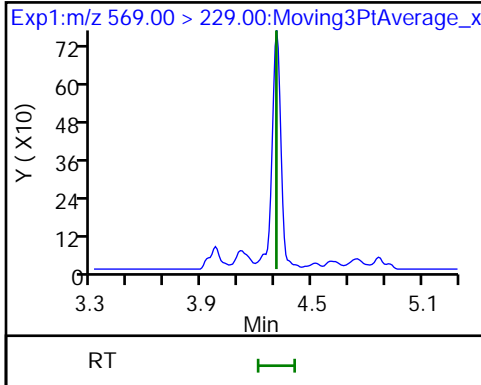
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

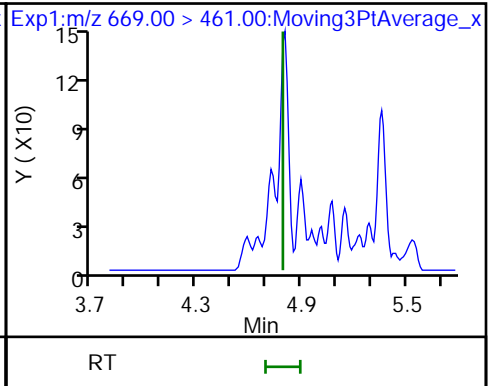
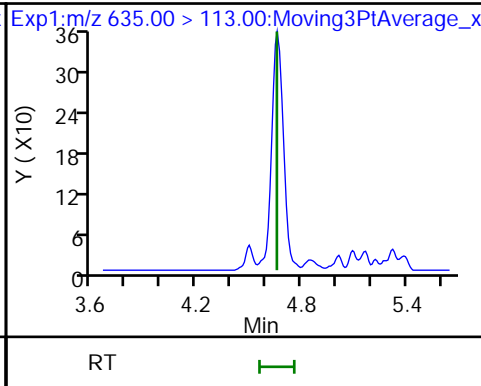
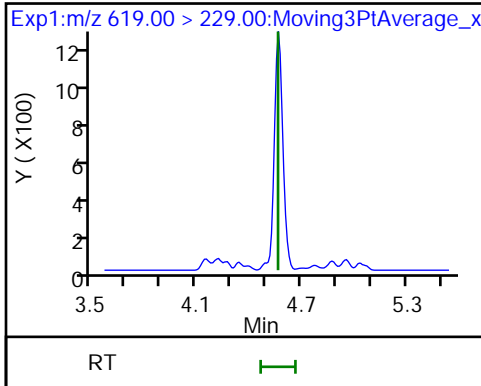
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

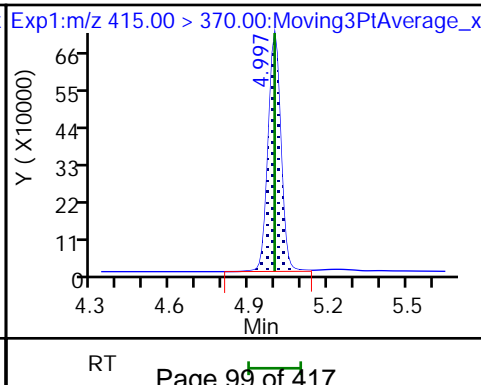
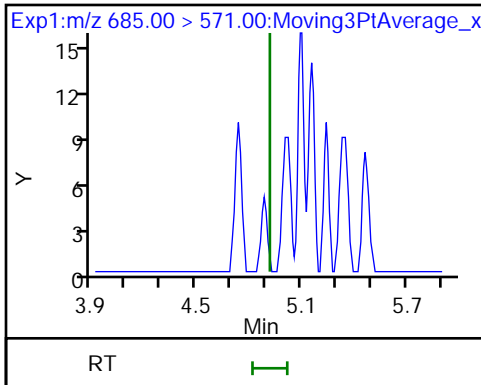
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-107D Lab Sample ID: 410-90529-7

Matrix: Water Lab File ID: 22AUG05BFS-13.d

Analysis Method: BFS Date Collected: 07/08/2022 14:40

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 288.8(mL) Date Analyzed: 08/09/2022 05:18

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.95	0.35
STL02880	BFS_A3B	ND		0.52	0.17
STL02885	BFS_A3B2	ND		0.69	0.17
STL02883	BFS_A4B	ND		0.35	0.17
STL02879	BFS_AB2	ND		0.52	0.069
STL02884	BFS_AB3	ND		1.3	0.35
STL02881	BFS_B3	ND		0.61	0.26
STL02886	BFS_B4	ND		0.95	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	125		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-13.d
 Lims ID: 410-90529-B-7-B
 Client ID: MW-107D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 05:18:00 ALS Bottle#: 23 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-7-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:17:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.389	-0.001	0.878	621146	6.25	125	365
* 11 13C2 PFOA	415.00 > 370.00	4.996	4.997	-0.001		2320940	5.00		245

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-13.d

Injection Date: 09-Aug-2022 05:18:00

Instrument ID: 30733

Lims ID: 410-90529-B-7-B

Lab Sample ID: 410-90529-7

Client ID: MW-107D

Operator ID: US19_USR_INS20260

ALS Bottle#: 23

Worklist Smp#: 13

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

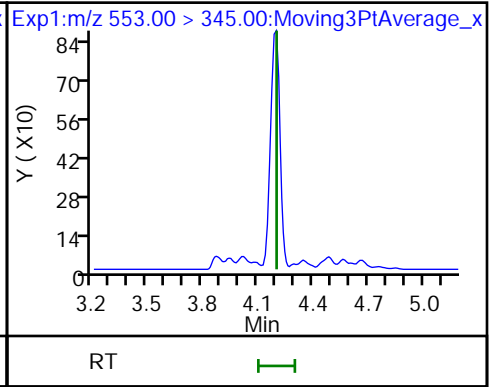
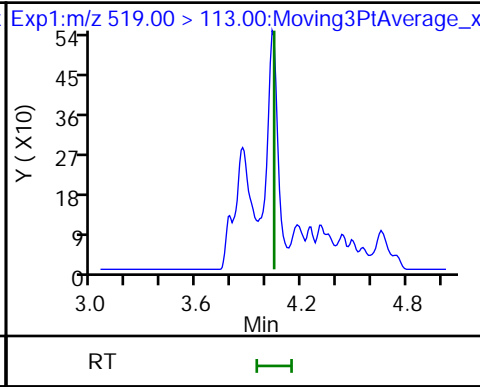
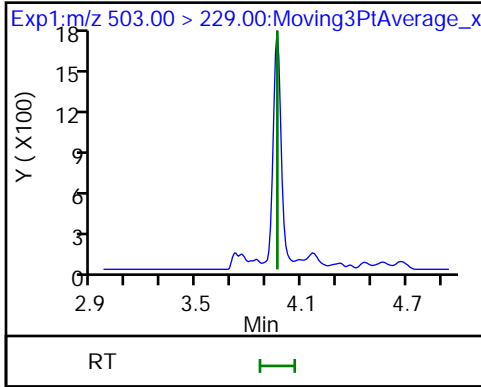
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

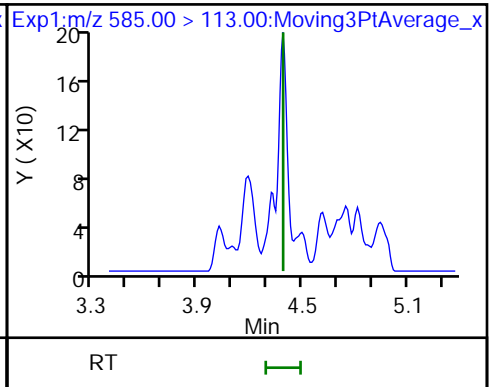
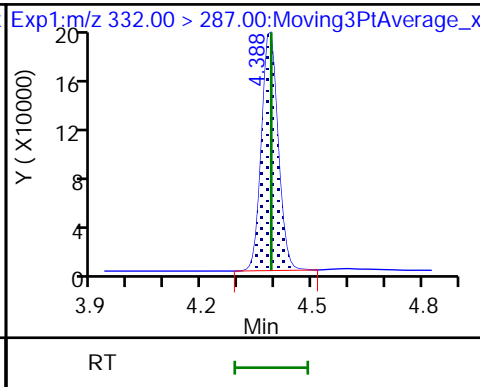
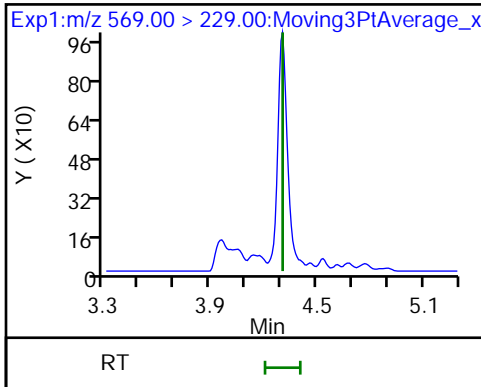
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

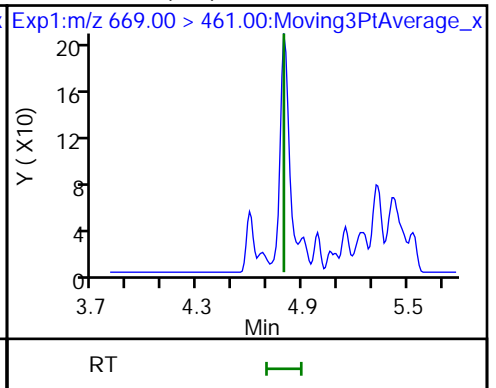
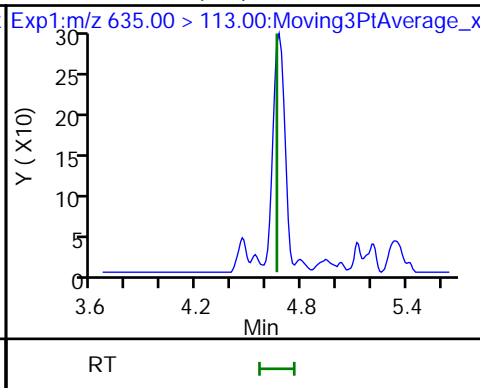
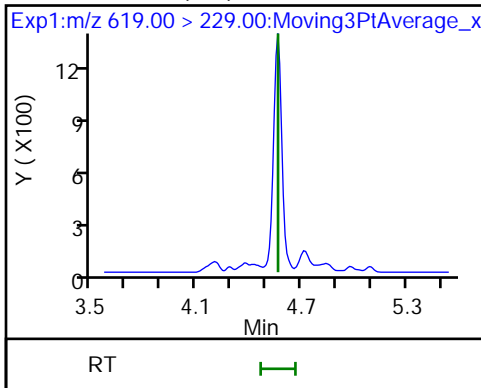
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

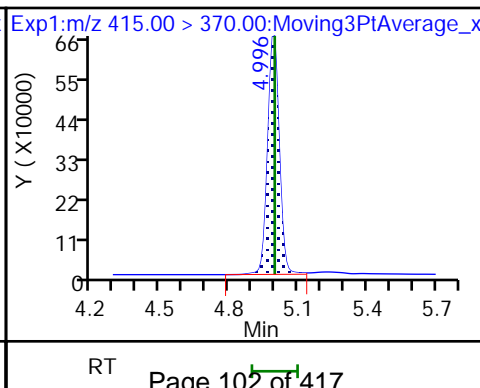
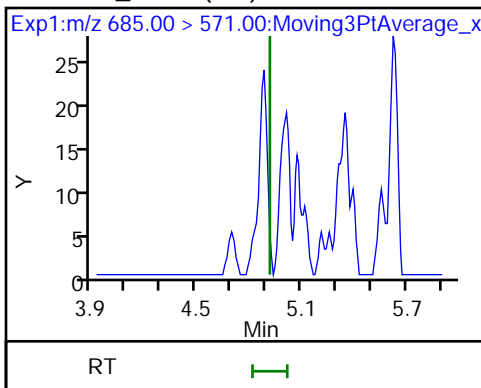
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S Lab Sample ID: 410-90529-8

Matrix: Water Lab File ID: 22AUG05BFS-14.d

Analysis Method: BFS Date Collected: 07/08/2022 16:00

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 306.1(mL) Date Analyzed: 08/09/2022 05:30

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	150		1.1	0.33
STL02880	BFS_A3B	16		0.49	0.16
STL02885	BFS_A3B2	59		0.65	0.16
STL02883	BFS_A4B	13		0.33	0.16
STL02879	BFS_AB2	37		0.49	0.065
STL02884	BFS_AB3	400		1.2	0.33
STL02881	BFS_B3	110		0.57	0.25
STL02886	BFS_B4	210		0.90	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-14.d
 Lims ID: 410-90529-B-8-B
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 05:30:37 ALS Bottle#: 24 Worklist Smp#: 14
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-8-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:18:15

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.903	1941087	11.4	8191	
2 BFS_A3B	519.00 > 113.00	4.043	4.043	0.0	0.921	929367	4.87	274	
3 BFS_B3	553.00 > 345.00	4.201	4.201	0.0	0.957	3554481	33.0	244	
4 BFS_A2B2	569.00 > 229.00	4.297	4.305	-0.008	0.979	3359518	46.5	296	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.389	-0.001	0.878	637021	5.46	109	342
5 BFS_A4B	585.00 > 113.00	4.388	4.389	-0.001	1.000	981664	3.96	346	
7 BFS_AB3	619.00 > 229.00	4.565	4.565	0.0	1.040	11644020	123.1	383	
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.061	3217745	18.0	333	
9 BFS_B4	669.00 > 461.00	4.805	4.793	0.012	1.095	3690208	63.5	336	
10 BFS_A2B3	685.00 > 571.00	4.907	4.918	-0.011	1.118	180790	29.2	332	E E
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2722691	5.00	327	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-14.d

Injection Date: 09-Aug-2022 05:30:37

Instrument ID: 30733

Lims ID: 410-90529-B-8-B

Lab Sample ID: 410-90529-8

Client ID: MW-109S

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

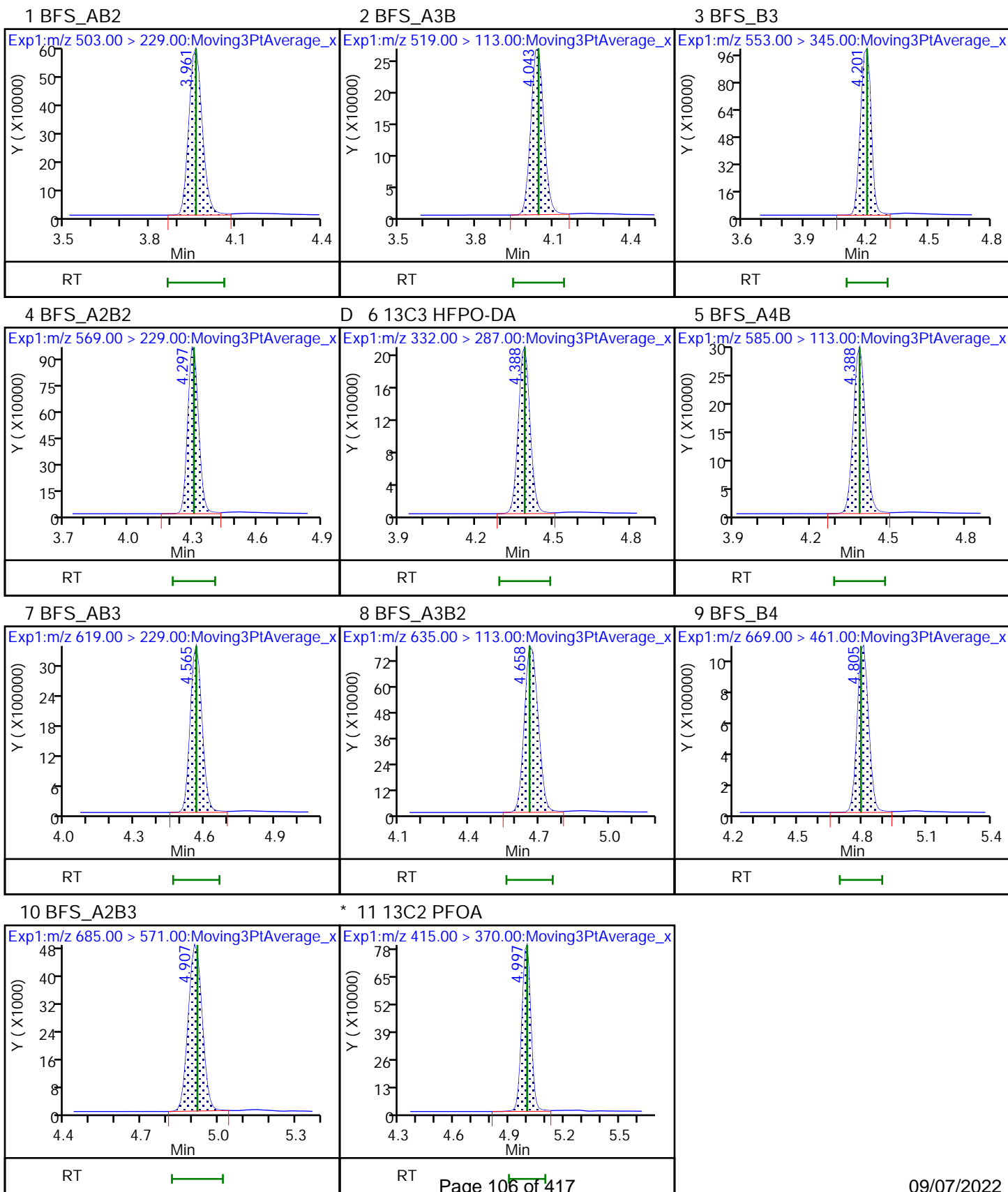
Worklist Smp#: 14

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S DL Lab Sample ID: 410-90529-8 DL

Matrix: Water Lab File ID: 22AUG10BFS-17.d

Analysis Method: BFS Date Collected: 07/08/2022 16:00

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 306.1(mL) Date Analyzed: 08/11/2022 06:09

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284701 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02887	BFS_A2B3	100		9.0	3.3

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-17.d
 Lims ID: 410-90529-B-8-B
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 11-Aug-2022 06:09:24 ALS Bottle#: 26 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90529-B-8-B 10x
 Misc. Info.: Plate: 11 Rack: 1 410-0063844-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 11-Aug-2022 09:57:24 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:37:47

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.955	3.962	-0.007	0.902	145375	0.7542	1418	
2 BFS_A3B	519.00 > 113.00	4.036	4.045	-0.009	0.920	65675	0.3053	148	
3 BFS_B3	553.00 > 345.00	4.194	4.203	-0.009	0.956	243315	1.99	138	
4 BFS_A2B2	569.00 > 229.00	4.302	4.307	-0.005	0.981	229923	2.71	163	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.386	4.391	-0.005	0.878	73399	0.4881	97.6	261
5 BFS_A4B	585.00 > 113.00	4.386	4.391	-0.005	1.000	66495	0.2369	179	
7 BFS_AB3	619.00 > 229.00	4.562	4.567	-0.005	1.040	906268	8.12	261	
8 BFS_A3B2	635.00 > 113.00	4.655	4.674	-0.019	1.061	253834	1.23	245	
9 BFS_B4	669.00 > 461.00	4.791	4.805	-0.014	1.092	342810	5.11	267	
10 BFS_A2B3	685.00 > 571.00	4.905	4.900	0.005	1.119	19600	3.11	214	M
* 11 13C2 PFOA	415.00 > 370.00	4.995	4.997	-0.002		3509461	5.00	342	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

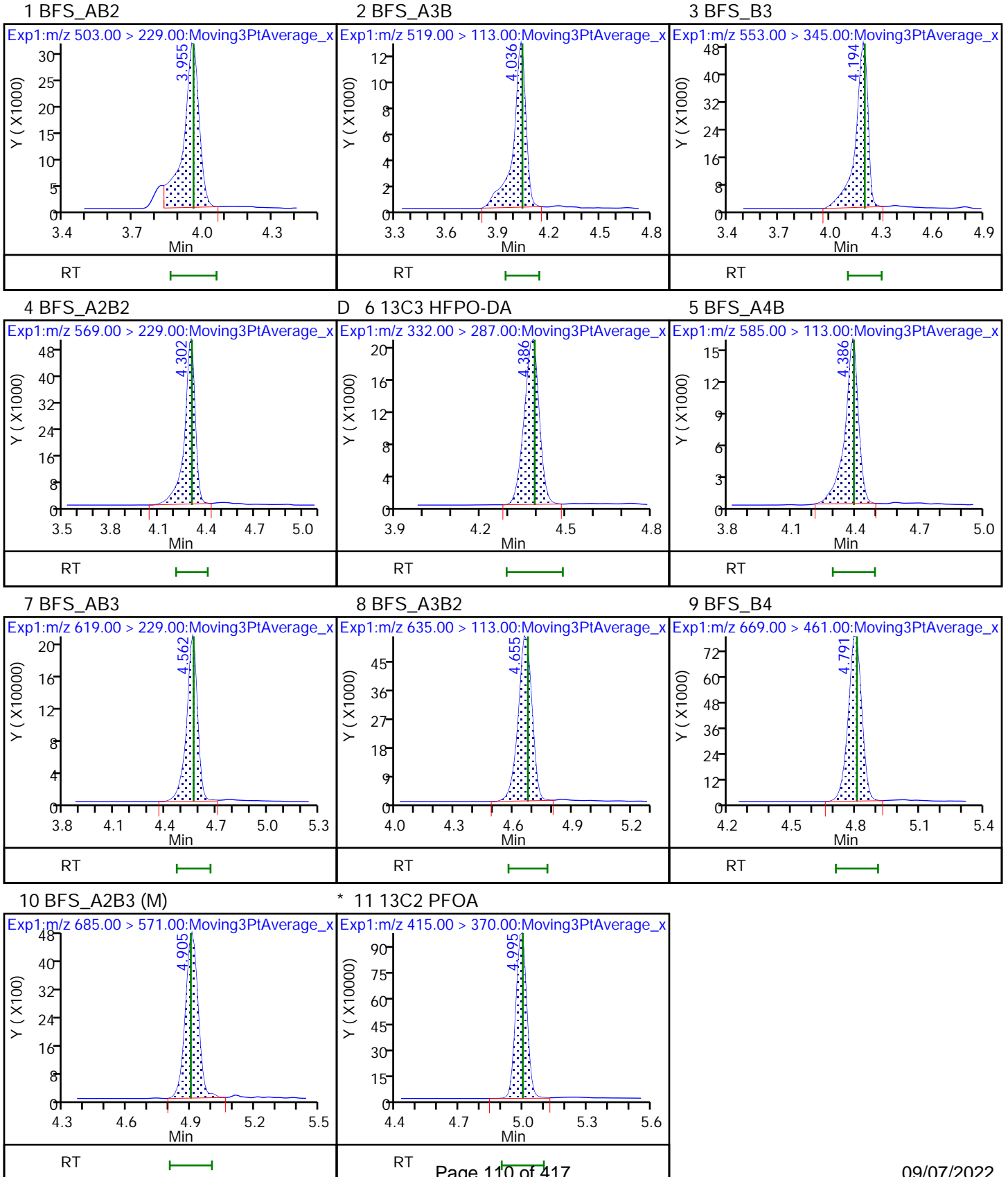
PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-17.d
Injection Date: 11-Aug-2022 06:09:24 Instrument ID: 30733
Lims ID: 410-90529-B-8-B Lab Sample ID: 410-90529-8
Client ID: MW-109S
Operator ID: US19_USR_INS20260 ALS Bottle#: 26 Worklist Smp#: 17
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

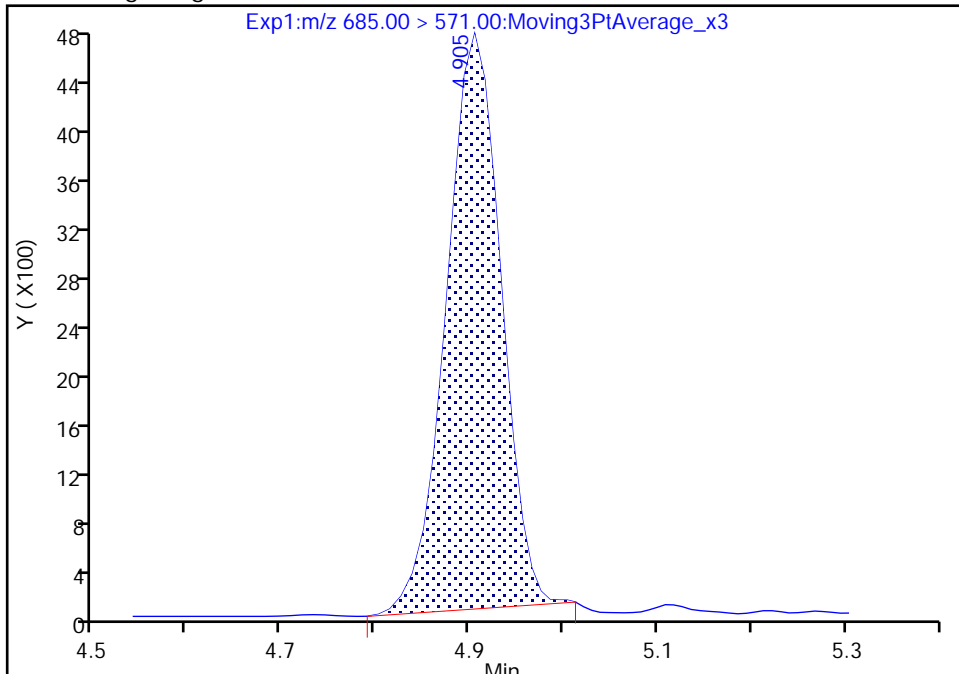
Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-17.d
Injection Date: 11-Aug-2022 06:09:24 Instrument ID: 30733
Lims ID: 410-90529-B-8-B Lab Sample ID: 410-90529-8
Client ID: MW-109S
Operator ID: US19_USR_INS20260 ALS Bottle#: 26 Worklist Smp#: 17
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

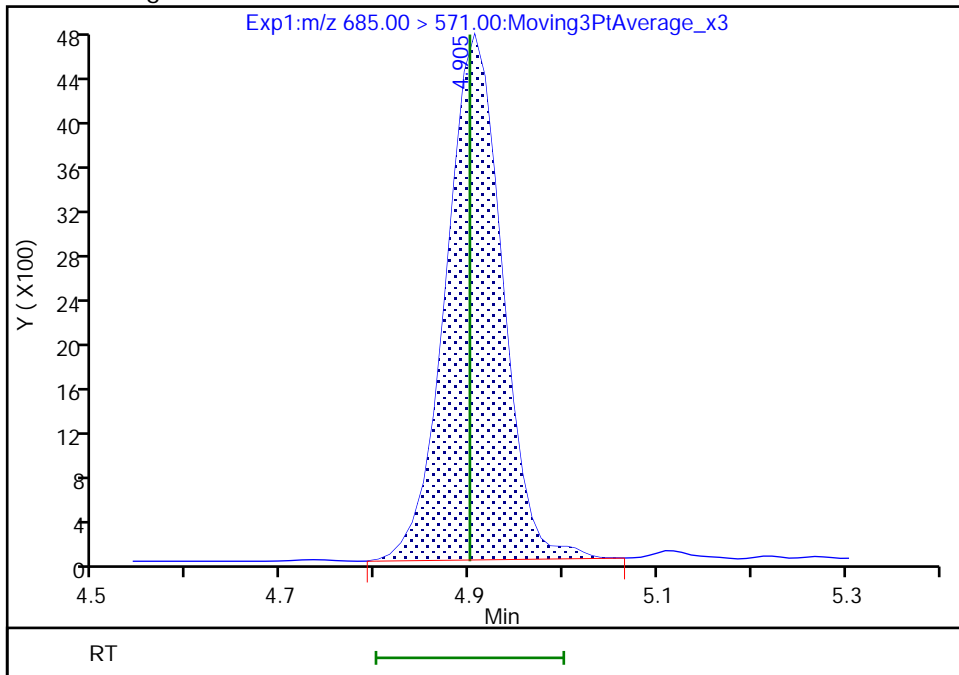
RT: 4.91
Area: 18905
Amount: 3.000532
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 19600
Amount: 3.109400
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 11-Aug-2022 06:37:44
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109D Lab Sample ID: 410-90529-9

Matrix: Water Lab File ID: 22AUG05BFS-16.d

Analysis Method: BFS Date Collected: 07/08/2022 15:50

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 297.8(mL) Date Analyzed: 08/09/2022 05:55

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.34
STL02887	BFS_A2B3	ND		0.92	0.34
STL02880	BFS_A3B	ND		0.50	0.17
STL02885	BFS_A3B2	ND		0.67	0.17
STL02883	BFS_A4B	ND		0.34	0.17
STL02879	BFS_AB2	ND		0.50	0.067
STL02884	BFS_AB3	ND		1.3	0.34
STL02881	BFS_B3	ND		0.59	0.25
STL02886	BFS_B4	ND		0.92	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-16.d
 Lims ID: 410-90529-B-9-B
 Client ID: MW-109D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 05:55:46 ALS Bottle#: 25 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-9-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:14 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:18:25
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.382 4.389 -0.007 0.877 595726 5.23 105 356
 * 11 13C2 PFOA
 415.00 > 370.00 4.997 4.997 0.0 2659088 5.00 367

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-16.d

Injection Date: 09-Aug-2022 05:55:46

Instrument ID: 30733

Lims ID: 410-90529-B-9-B

Lab Sample ID: 410-90529-9

Client ID: MW-109D

Operator ID: US19_USR_INS20260

ALS Bottle#: 25

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

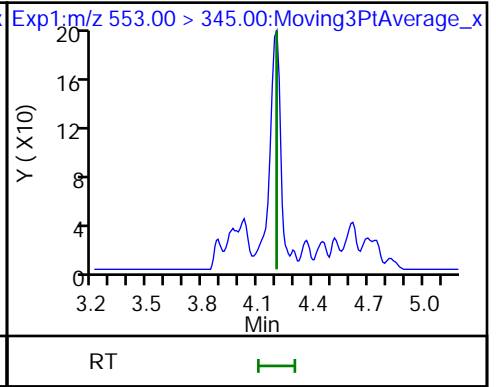
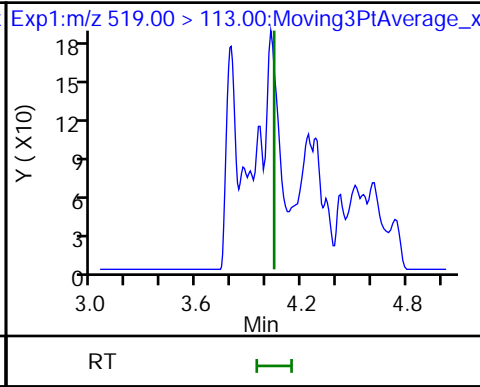
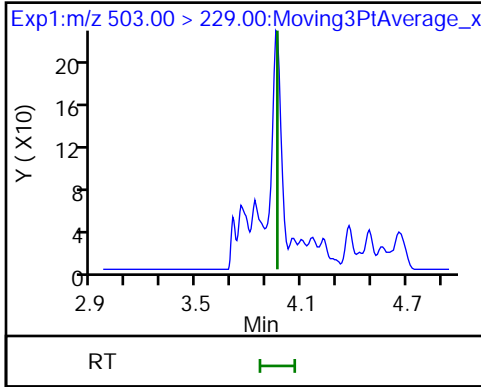
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

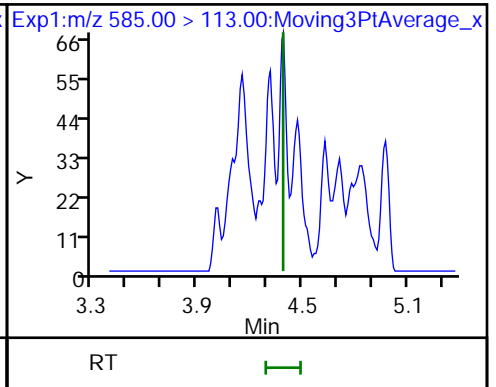
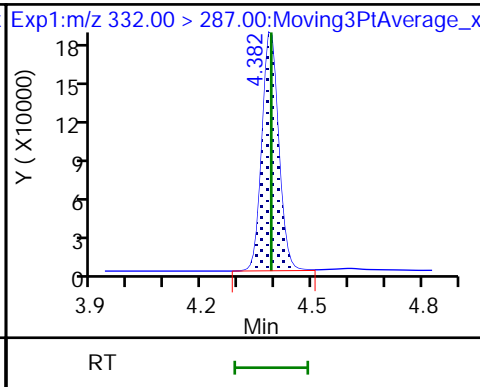
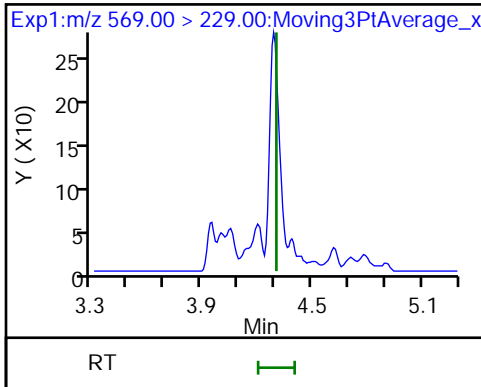
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

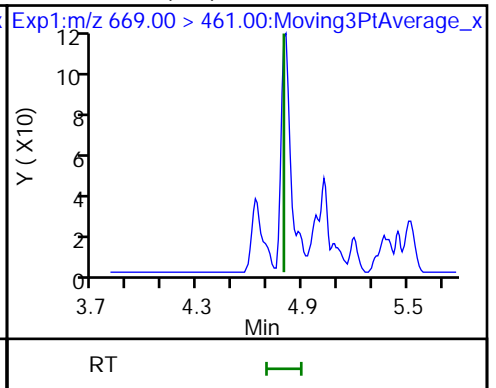
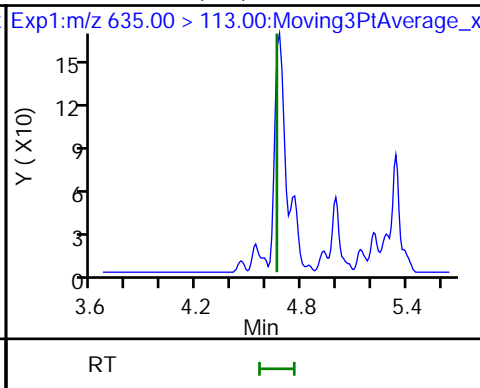
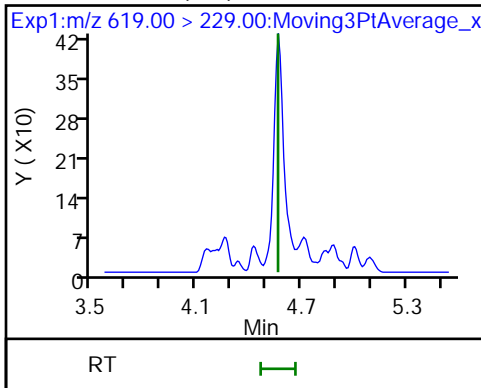
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

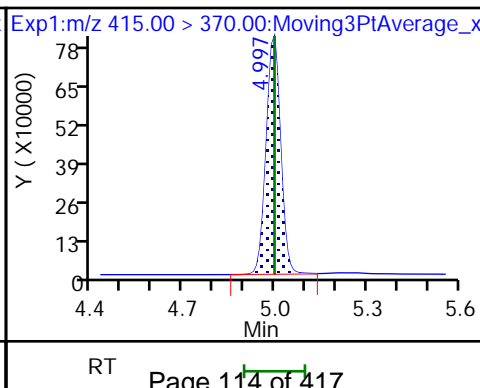
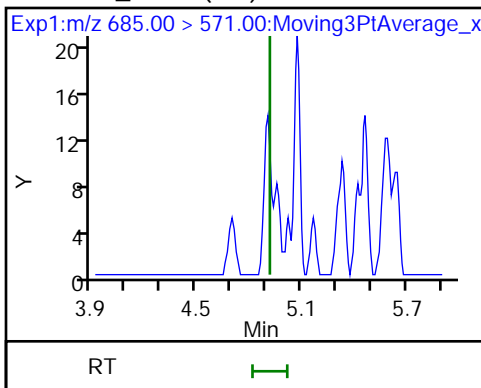
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_070822 Lab Sample ID: 410-90529-10

Matrix: Water Lab File ID: 22AUG05BFS-17.d

Analysis Method: BFS Date Collected: 07/08/2022 10:20

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 265.6(mL) Date Analyzed: 08/09/2022 06:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.3	0.38
STL02887	BFS_A2B3	ND		1.0	0.38
STL02880	BFS_A3B	ND		0.56	0.19
STL02885	BFS_A3B2	ND		0.75	0.19
STL02883	BFS_A4B	ND		0.38	0.19
STL02879	BFS_AB2	ND		0.56	0.075
STL02884	BFS_AB3	ND		1.4	0.38
STL02881	BFS_B3	ND		0.66	0.28
STL02886	BFS_B4	ND		1.0	0.38

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-17.d
 Lims ID: 410-90529-B-10-B
 Client ID: EB_070822
 Sample Type: Client
 Inject. Date: 09-Aug-2022 06:08:23 ALS Bottle#: 26 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-10-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:14 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:18:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.385	4.389	-0.004	0.878	655135	5.05	101	371
* 11 13C2 PFOA	415.00 > 370.00	4.995	4.997	-0.002		3026266	5.00		345

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-17.d

Injection Date: 09-Aug-2022 06:08:23

Instrument ID: 30733

Lims ID: 410-90529-B-10-B

Lab Sample ID: 410-90529-10

Client ID: EB_070822

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 17

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

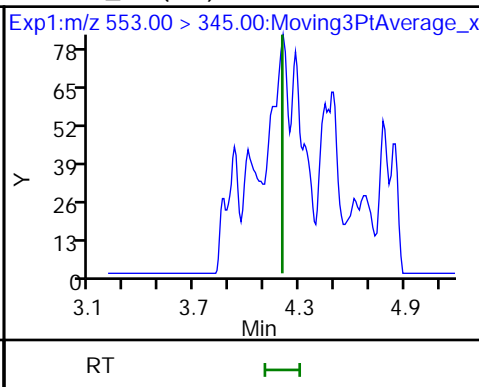
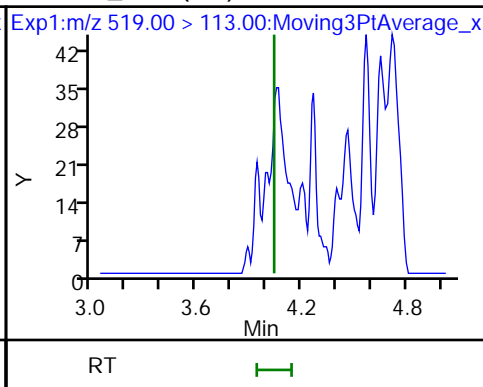
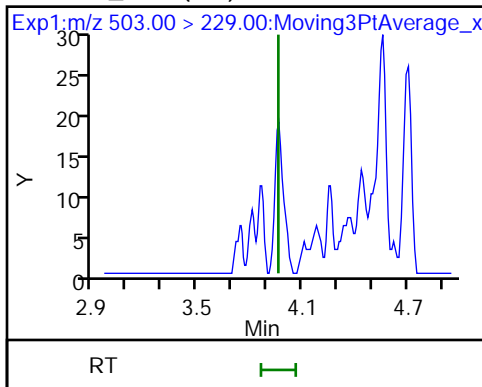
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

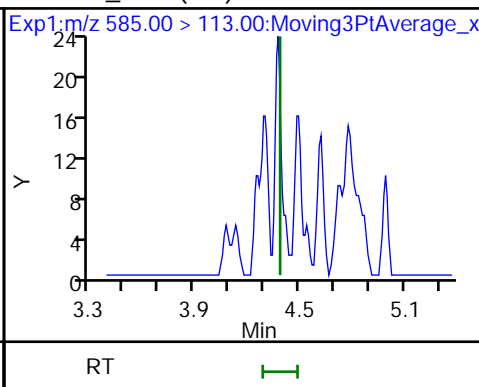
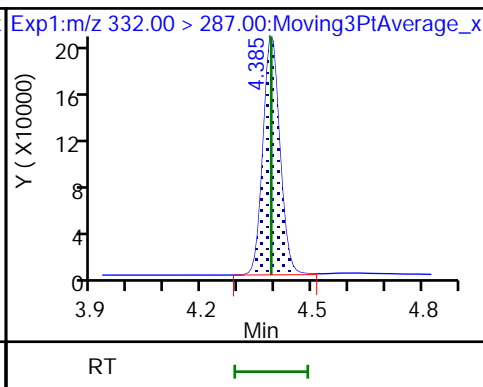
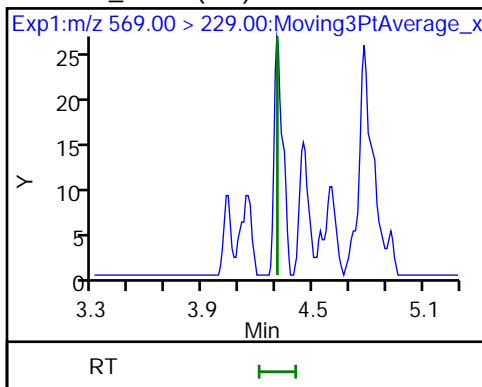
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

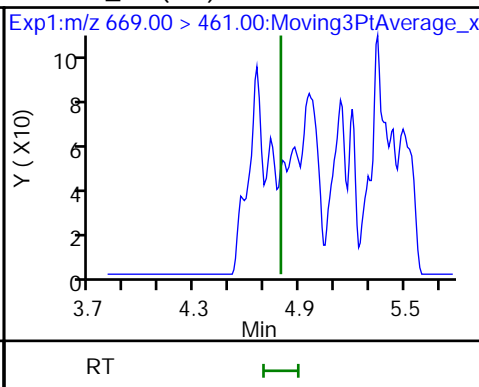
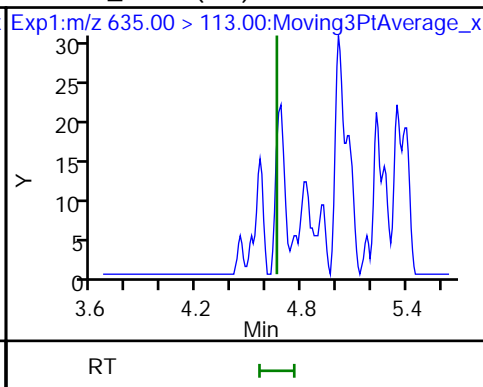
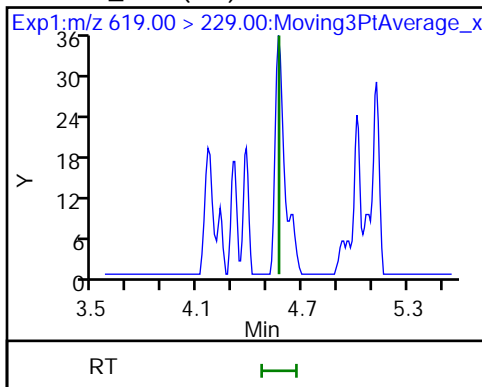
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

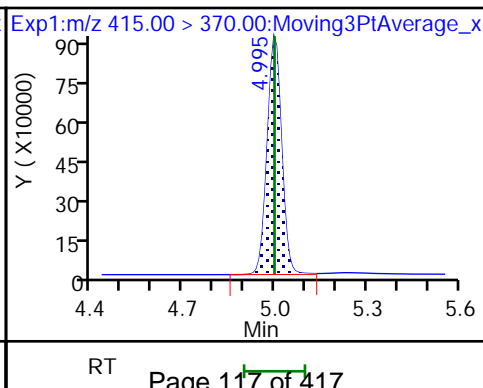
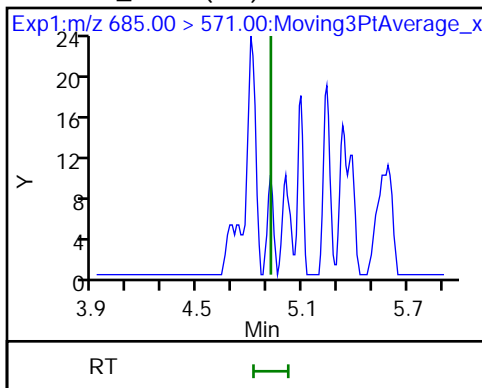
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
BFS_AB2	1.3404 1.3818	1.0770 1.3144	1.2184 1.4058	1.4039 1.3598	1.3838 1.4691	Q2ID	-0.00 2	1.314 8	0.0018105					0.9940		0.9900	
BFS_A3B	1.4208 1.5761	1.2747 1.5028	1.3456 1.6067	1.5329 1.4982	1.5943 1.7531	Q2ID	-0.00 7	1.486 0	0.0025242					0.9960		0.9900	
BFS_B3	0.7176 0.8457	0.7507 0.8215	0.7947 0.8649	0.8386 0.8343	0.8851 0.8499	L1ID	-0.02 7	0.847 0						1.0000		0.9900	
BFS_A2B2	0.5705 0.6138	0.5459 0.5822	0.5584 0.6040	0.5988 0.5628	0.6106 0.5559	L1ID	0.030 8	0.566 5						0.9990		0.9900	
BFS_A4B	1.7634 1.9293	1.8869 1.9086	1.8419 1.9499	1.8717 1.9071	1.9847 1.9633	L1ID	-0.00 8	1.945 3						1.0000		0.9900	
BFS_AB3	0.7412 0.7786	0.7385 0.7256	0.7565 0.7279	0.7607 0.6898	0.7988 0.6494	Q2ID	-0.01 0	0.763 3	-0.000169					0.9990		0.9900	
BFS_A3B2	1.3479 1.4587	1.2949 1.3295	1.3965 1.4715	1.4205 1.3884	1.4313 1.3327	Q2ID	-0.00 6	1.414 9	-0.000549					0.9990		0.9900	
BFS_B4	0.4078 0.4627	0.4878 0.4887	0.4421 0.4678	0.4711 0.4603	0.4783 0.4481	L1ID	0.003 0	0.456 1						0.9990		0.9900	
BFS_A2B3	++++ 0.0410	++++ 0.0423	0.0463 0.0429	0.0526 0.0452	0.0384 0.0445	Q2ID	0.000 3	0.042 2	0.0002171					0.9900		0.9900	
13C3 HFPO-DA	0.2198 0.2053	0.2184 0.2197	0.2232 0.2168	0.2111 0.2105	0.2122 0.2054	Ave		0.214 3			2.9						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		Q2ID	7810	19911	59281	168892	326863	0.0445	0.134	0.356	0.891	1.78
			783975	1538103	3198611	5851103	15424775	4.45	8.91	17.8	35.6	89.1
BFS_A3B		Q2ID	9252	26338	73171	206104	420871	0.0498	0.149	0.398	0.995	1.99
			999379	1965503	4085759	7205025	20573000	4.98	9.95	19.9	39.8	99.5
BFS_B3		L1ID	14879	49391	137604	359047	744046	0.158	0.475	1.27	3.17	6.34
			1707610	3421113	7003349	12776032	31759941	15.8	31.7	63.4	127	317
BFS_A2B2		L1ID	25907	78667	211759	561437	1124117	0.347	1.04	2.78	6.94	13.9
			2714045	5309692	10710611	18872981	45491370	34.7	69.4	139	278	694
BFS_A4B		L1ID	6346	21546	55352	139072	289554	0.0275	0.0825	0.220	0.550	1.10
			676057	1379451	2740234	5068364	12732378	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID	36072	114037	307463	764392	1576044	0.372	1.12	2.98	7.44	14.9
			3689715	7092409	13833158	24793733	56956631	37.2	74.4	149	298	744
BFS_A3B2		Q2ID	11549	35204	99924	251306	497178	0.0655	0.196	0.524	1.31	2.62
			1217047	2287806	4923751	8785418	20577614	6.55	13.1	26.2	52.4	131
BFS_B4		L1ID	4612	17506	41754	110007	219296	0.0864	0.259	0.692	1.73	3.46
			509550	1110166	2066265	3844514	9133524	8.64	17.3	34.6	69.2	173
BFS_A2B3		Q2ID	+++++	+++++	331	931	1335	+++++	+++++	0.0524	0.131	0.262
			3417	7278	14370	28574	68639	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	654204	691937	682883	675382	663036	5.00	5.00	5.00	5.00	5.00
			637015	656951	638673	603912	589465	5.00	5.00	5.00	5.00	5.00

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Curve Type Legend

Ave = Average ISTD L1ID = Linear 1/conc IsoDil Q2ID = Quadratic 1/conc ² IsoDil
--

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
BFS_AB2	5.9	-16.8	-6.9	6.8	5.1	4.5	50	30	30	30	30	30
	-1.2	4.3	-1.3	-0.4			30	30	30	30		
BFS_A3B	4.4	-11.3	-8.4	3.4	7.1	5.2	50	30	30	30	30	30
	-0.5	4.5	-5.2	0.8			30	30	30	30		
BFS_B3	5.0	-4.6	-3.6	0.0	5.0	0.1	50	30	30	30	30	30
	-2.9	2.2	-1.5	0.4			30	30	30	30		
BFS_A2B2	-15.0	-8.8	-3.4	4.9	7.4	8.2	50	30	30	30	30	30
	2.7	6.6	-0.7	-1.9			30	30	30	30		
BFS_A4B	5.4	1.9	-3.5	-3.0	2.4	-0.7	50	30	30	30	30	30
	-1.8	0.3	-1.9	0.9			30	30	30	30		
BFS_AB3	0.6	-2.1	-0.4	0.0	5.1	2.9	50	30	30	30	30	30
	-3.4	-1.4	-3.5	2.4			30	30	30	30		
BFS_A3B2	2.0	-6.2	-0.4	0.8	1.4	3.4	50	30	30	30	30	30
	-5.6	5.1	0.2	-0.8			30	30	30	30		
BFS_B4	-18.2	4.4	-4.0	2.9	4.7	1.4	50	30	30	30	30	30
	7.1	2.6	0.9	-1.8			30	30	30	30		
BFS_A2B3	+++++	+++++	-4.8	18.9	-11.9	-4.3			50	30	30	30
	-0.9	0.2	4.0	-1.2			30	30	30	30		
13C3 HFPO-DA		1.9	4.2	-1.5	-0.9	-4.2		30	30	30	30	30
	2.5	1.2	-1.7	-4.1			30	30	30	30		

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Aug-2022 00:03:08 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:43 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:40:08

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.971	3.964	0.007	0.903	7810	0.0472	106	153	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.920	9252	0.0520	104	59.3	M
3 BFS_B3									M
553.00 > 345.00	4.216	4.203	0.013	0.958	14879	0.1664	105	52.7	M
4 BFS_A2B2									M
569.00 > 229.00	4.315	4.306	0.009	0.981	25907	0.2952	85.0	142	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.398	4.390	0.008	0.879	654204	5.13	103	274	
5 BFS_A4B									M
585.00 > 113.00	4.407	4.395	0.012	1.002	6346	0.0290	105	78.4	M
7 BFS_AB3									
619.00 > 229.00	4.577	4.569	0.008	1.041	36072	0.3742	101	222	
8 BFS_A3B2									M
635.00 > 113.00	4.687	4.671	0.016	1.066	11549	0.0668	102	82.9	M
9 BFS_B4									M
669.00 > 461.00	4.817	4.807	0.010	1.095	4612	0.0707	81.8	14.4	M
* 11 13C2 PFOA									
415.00 > 370.00	5.006	4.998	0.008		2976612	5.00		333	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

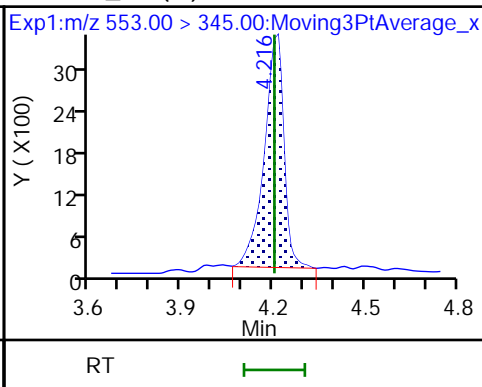
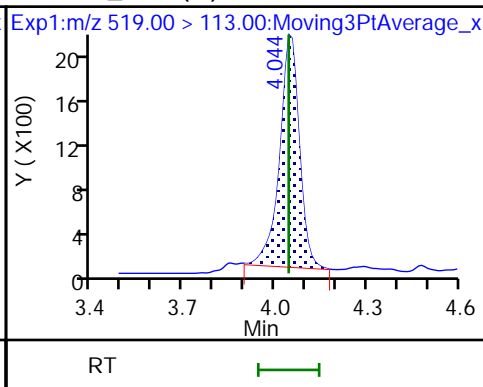
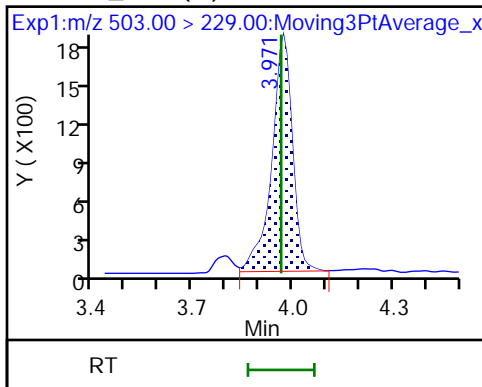
Amount Added: 200.00

Units: uL

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2 BFS_A3B (M)

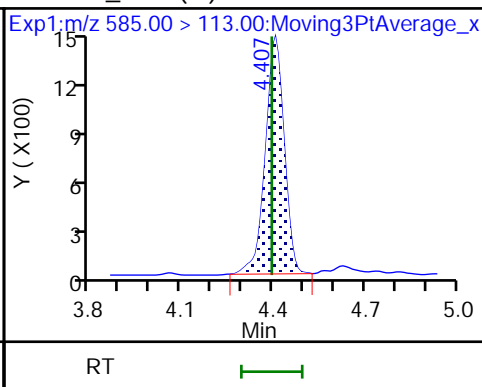
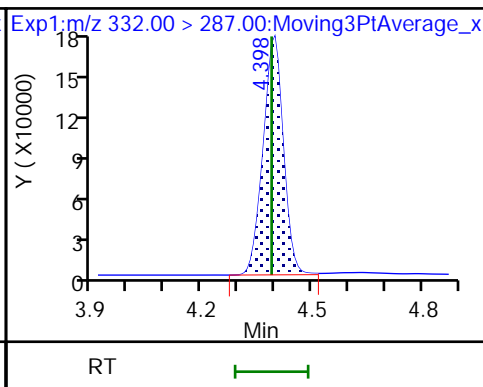
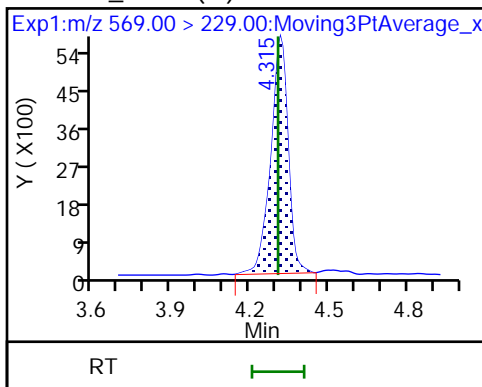
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

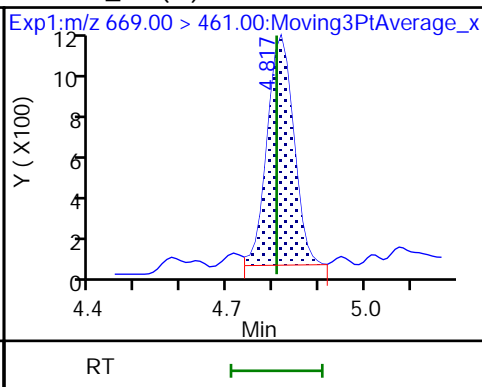
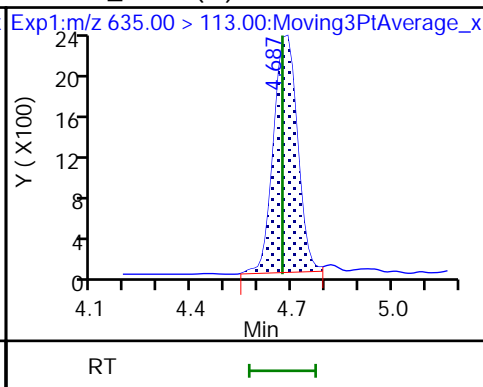
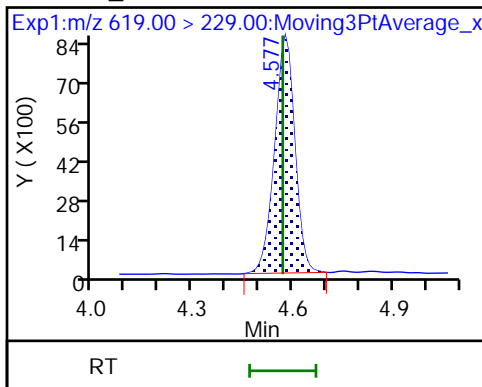
5 BFS_A4B (M)



7 BFS_AB3

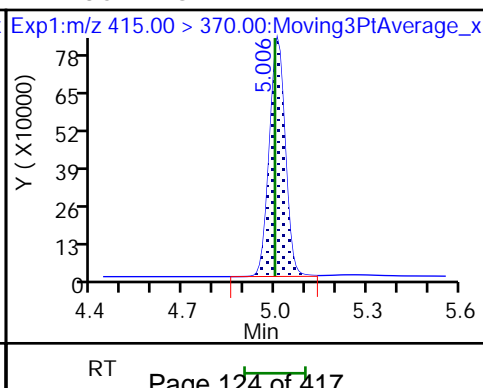
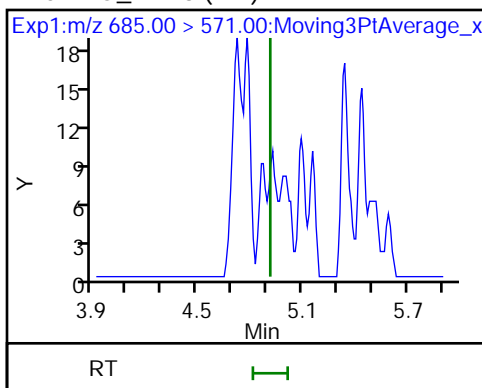
8 BFS_A3B2 (M)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

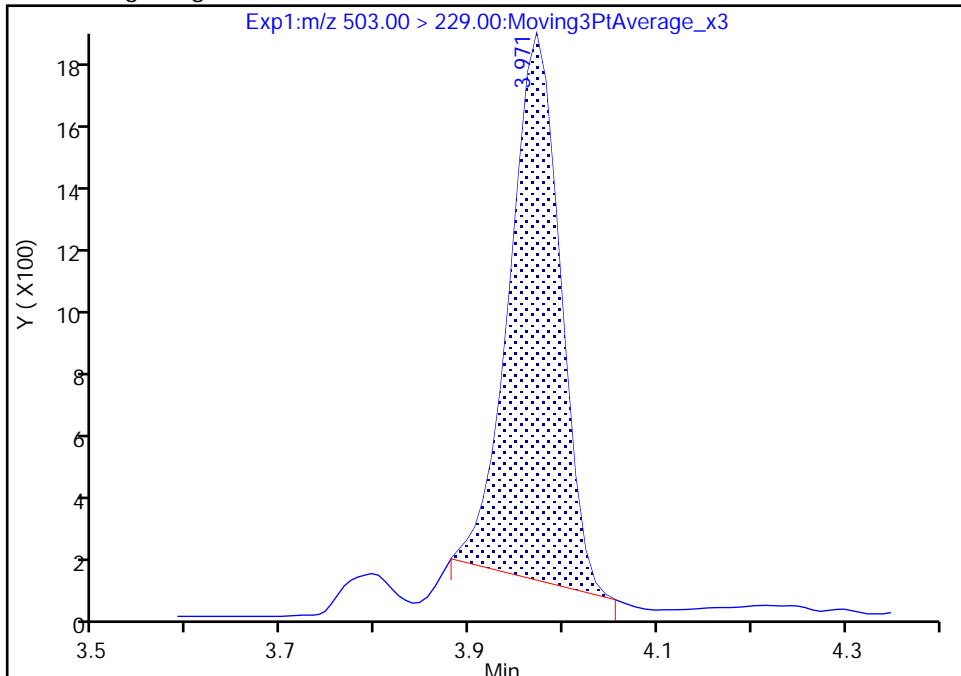
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Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

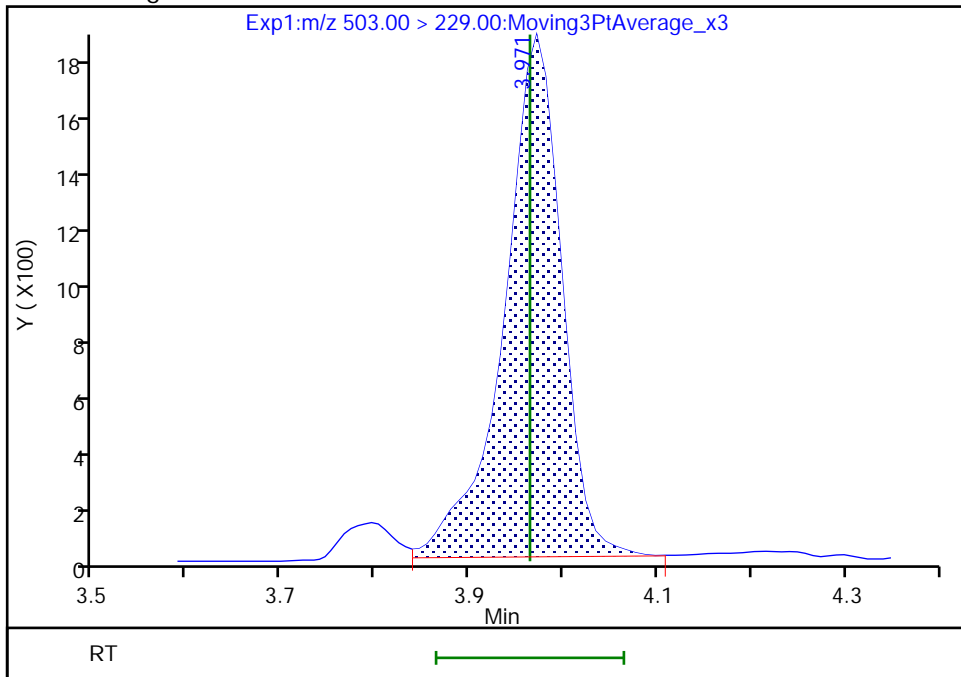
RT: 3.97
Area: 6499
Amount: 0.058350
Amount Units: ng/ml

Processing Integration Results



RT: 3.97
Area: 7810
Amount: 0.047173
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:38:46
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

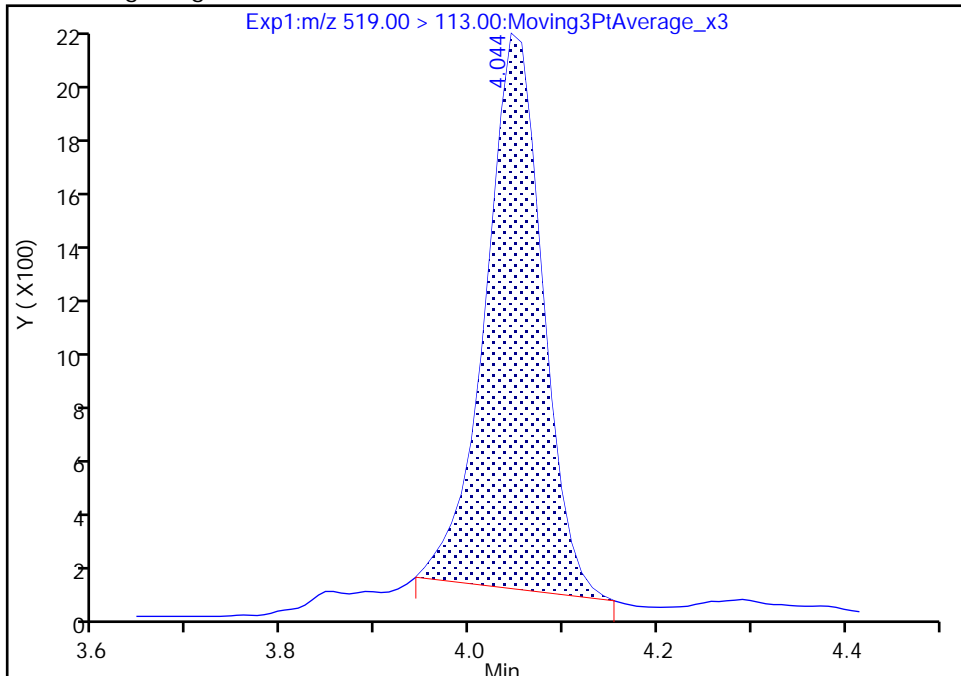
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Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

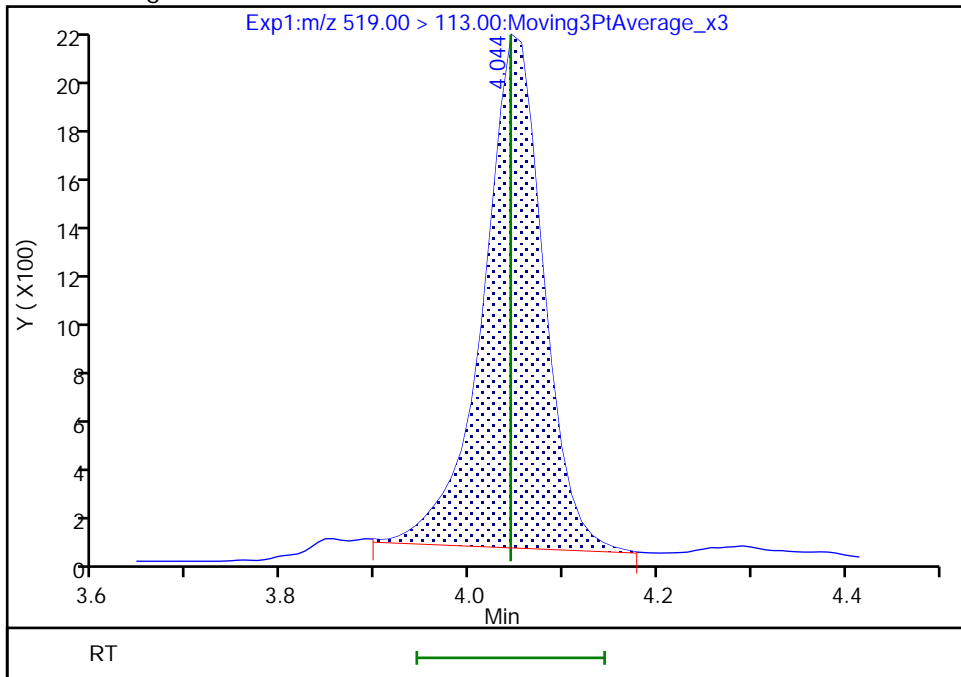
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Area: 8564
Amount: 0.072269
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
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Amount: 0.051967
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:29
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

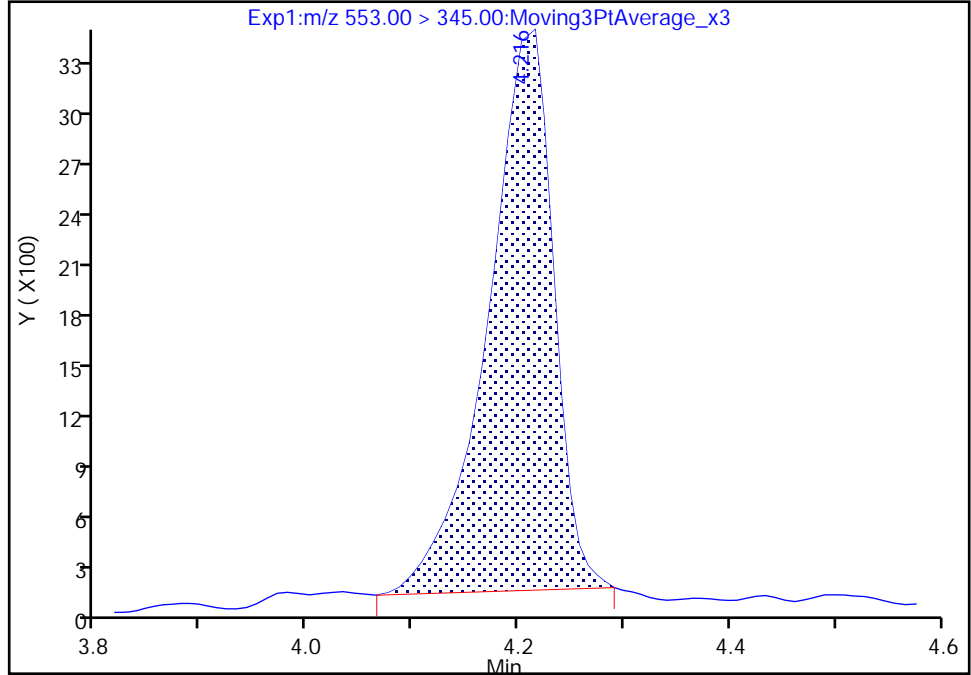
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Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

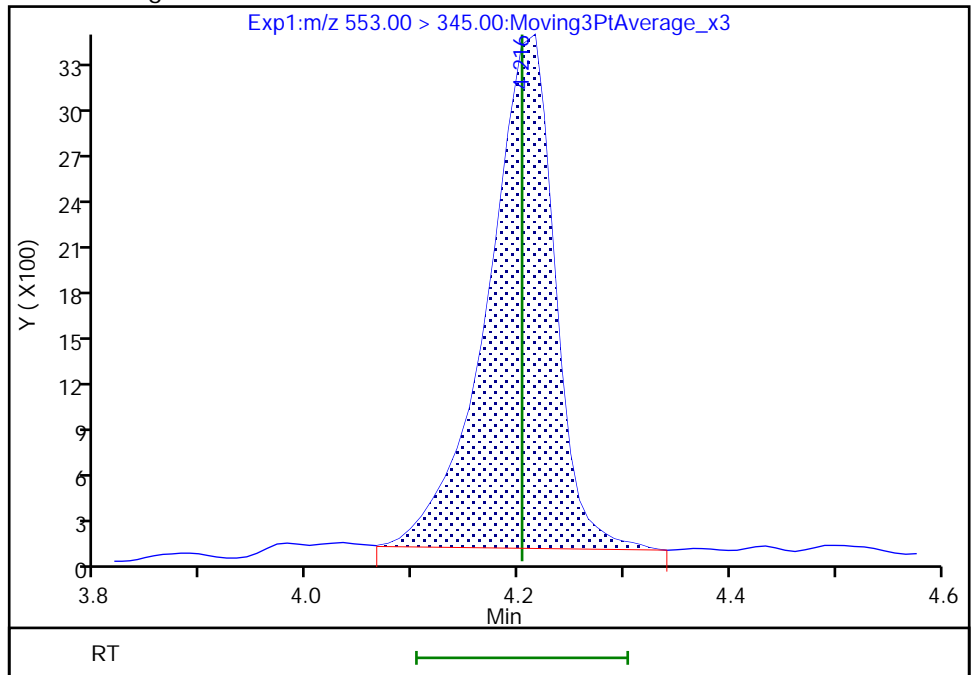
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Area: 14282
Amount: 0.171226
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 14879
Amount: 0.166402
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:34
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

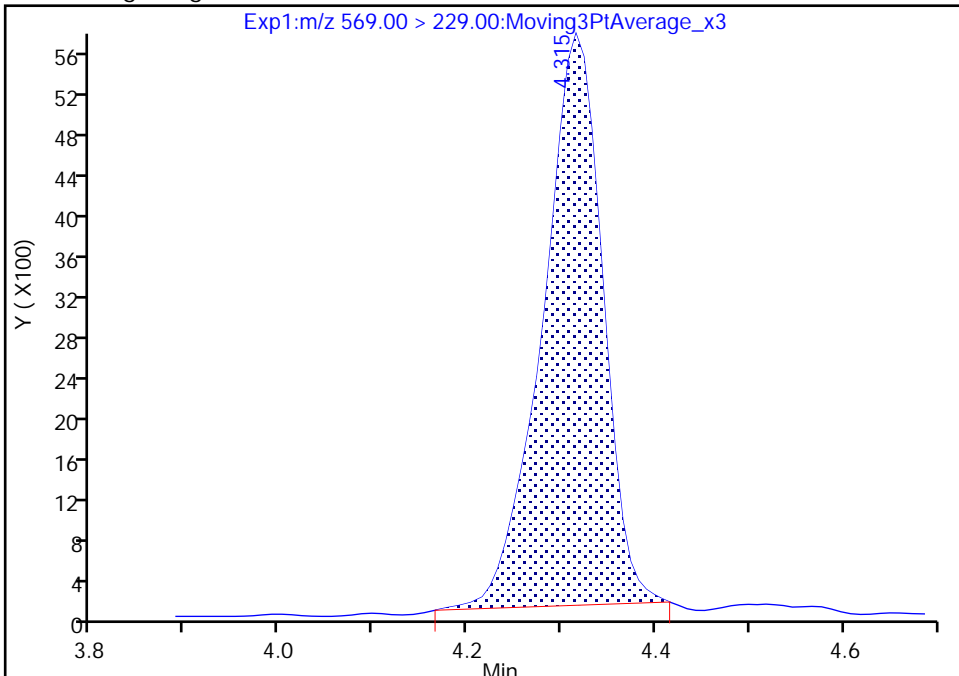
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Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

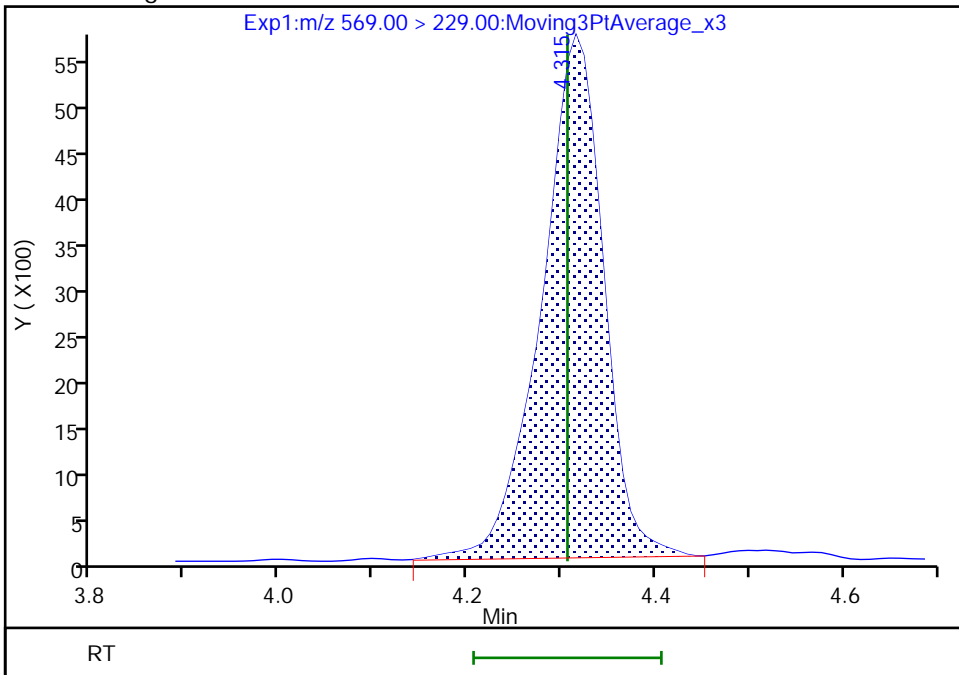
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Amount Units: ng/ml

Processing Integration Results



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Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:38
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

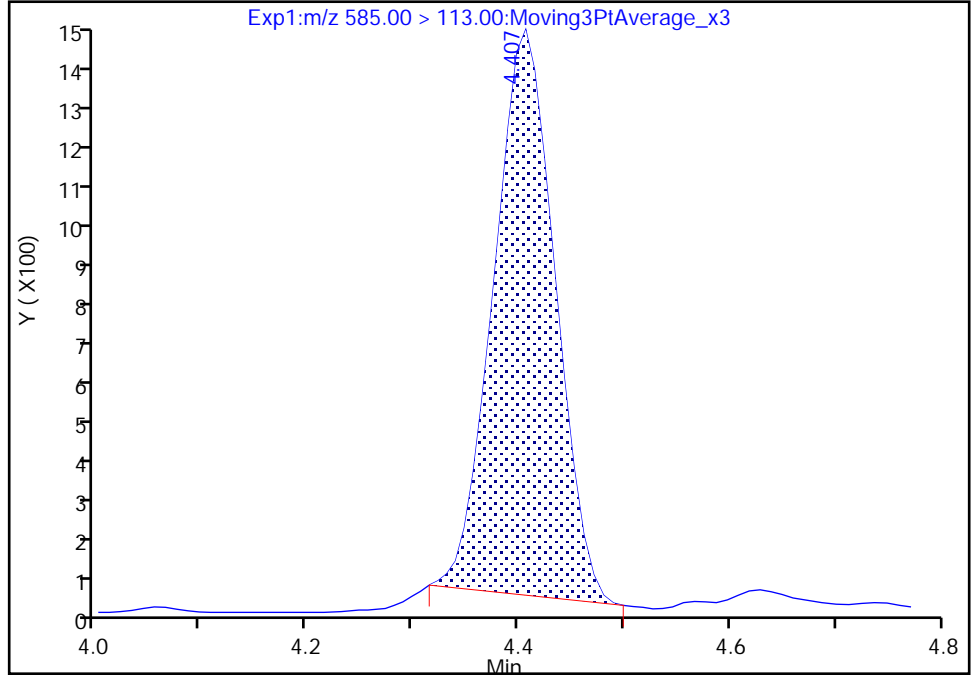
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Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

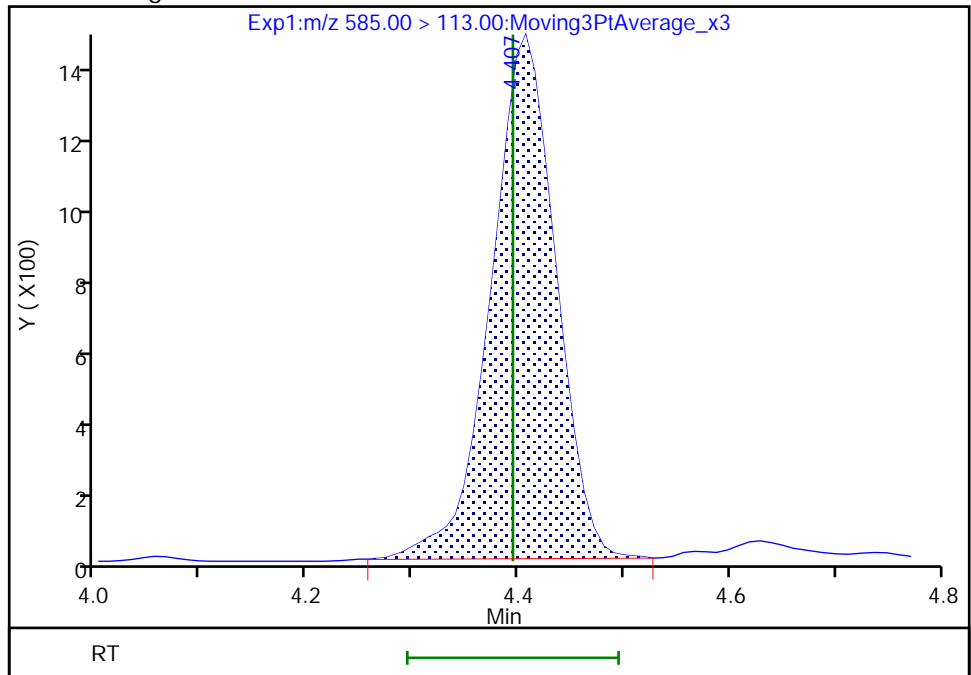
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Amount Units: ng/ml

Processing Integration Results



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Area: 6346
Amount: 0.029000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:43
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

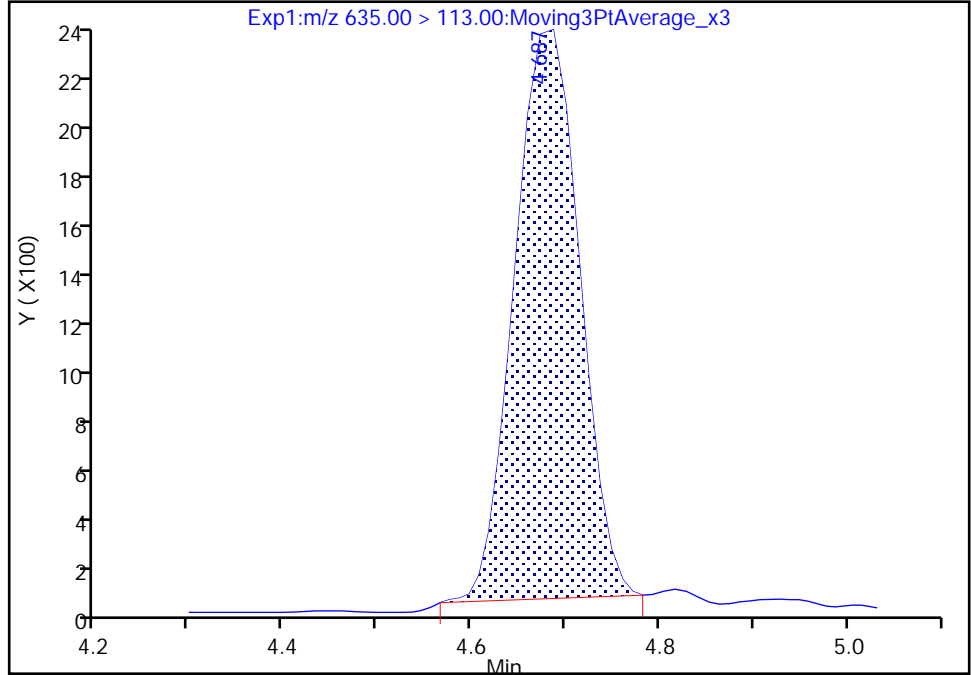
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

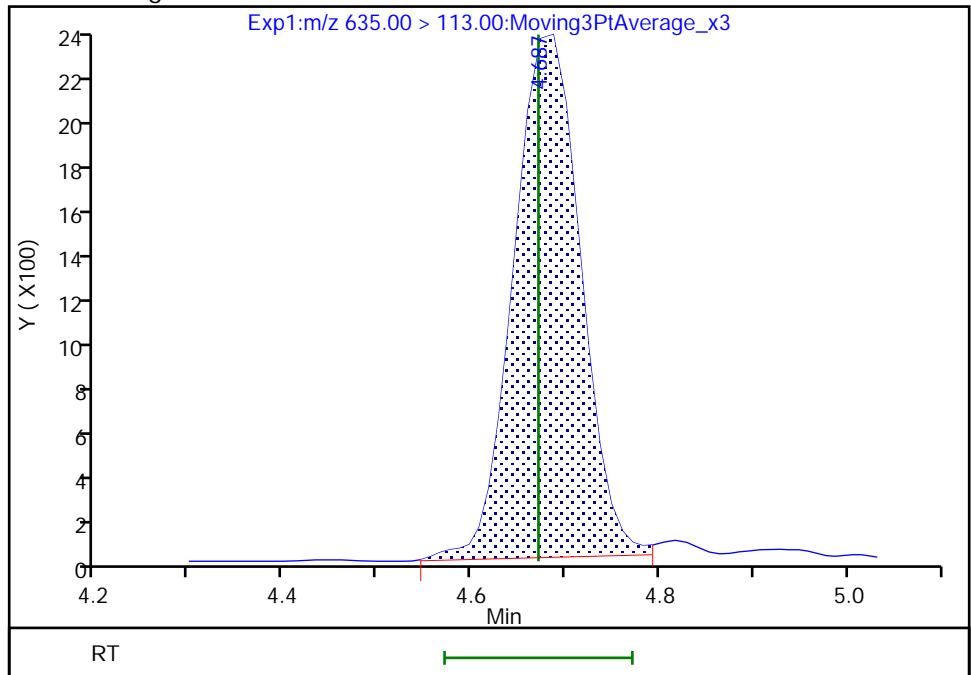
RT: 4.69
Area: 11007
Amount: 0.056855
Amount Units: ng/ml

Processing Integration Results



RT: 4.69
Area: 11549
Amount: 0.066819
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

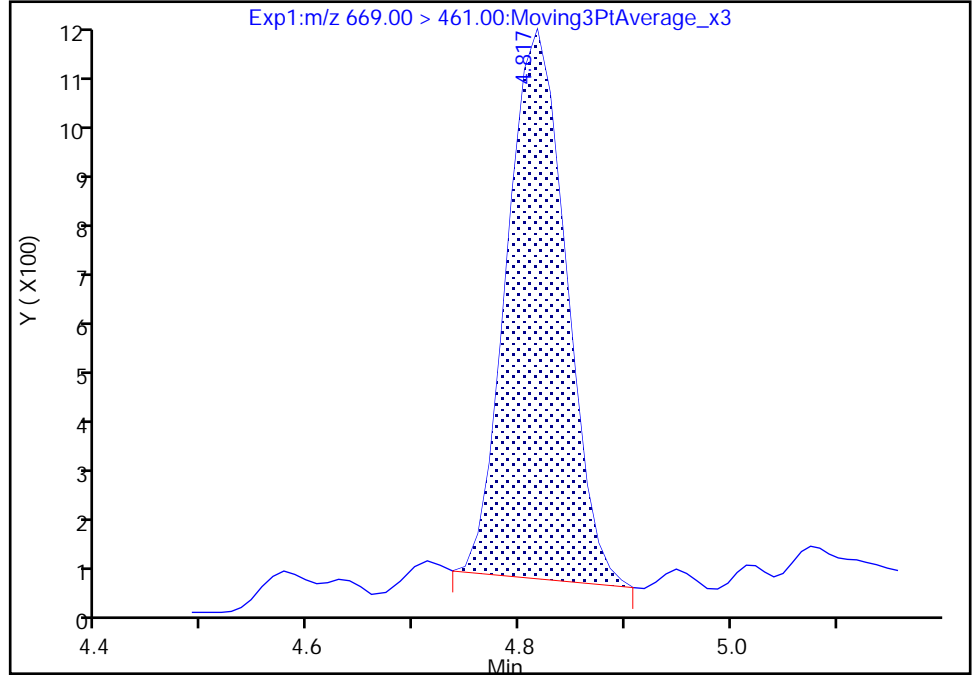
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

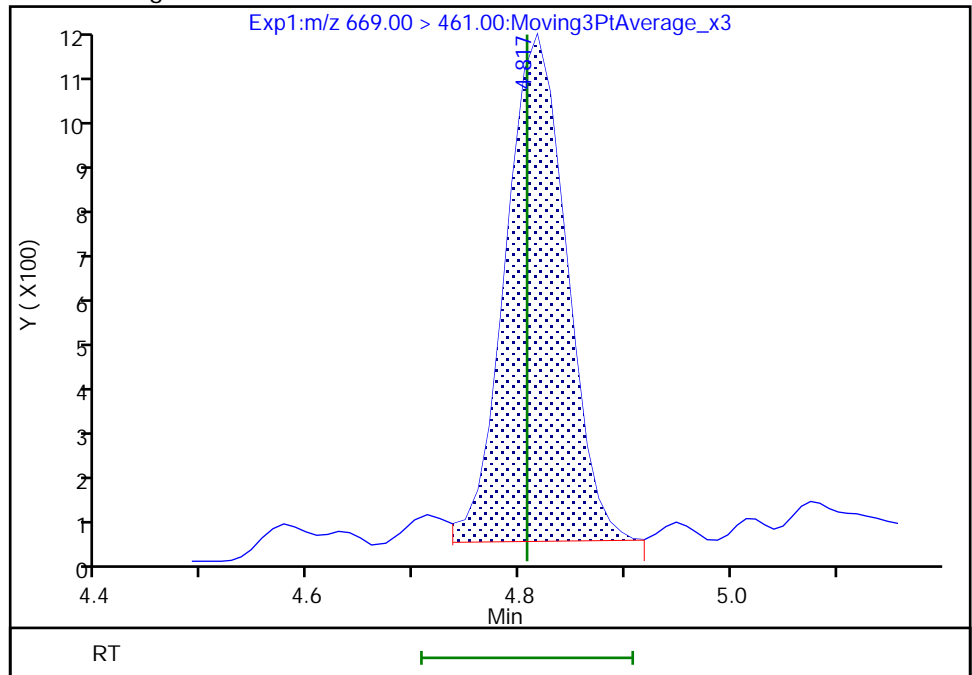
RT: 4.82
Area: 4379
Amount: 0.069390
Amount Units: ng/ml

Processing Integration Results



RT: 4.82
Area: 4612
Amount: 0.070746
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:40:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Aug-2022 00:15:42 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:44 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:00

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.962	3.964	-0.002	0.902	19911	0.1112	83.2	387
2 BFS_A3B	519.00 > 113.00	4.045	4.044	0.001	0.921	26338	0.1324	88.7	57.5
3 BFS_B3	553.00 > 345.00	4.203	4.203	0.0	0.957	49391	0.4535	95.4	82.5
4 BFS_A2B2	569.00 > 229.00	4.307	4.306	0.001	0.981	78667	0.9491	91.2	143
D 6 13C3 HFPO-DA	332.00 > 287.00	4.391	4.390	0.001	0.878	691937	5.10	102	315
5 BFS_A4B	585.00 > 113.00	4.399	4.395	0.004	1.002	21546	0.0841	102	150 M
7 BFS_AB3	619.00 > 229.00	4.577	4.569	0.008	1.043	114037	1.09	97.9	202
8 BFS_A3B2	635.00 > 113.00	4.677	4.671	0.006	1.065	35204	0.1842	93.8	140
9 BFS_B4	669.00 > 461.00	4.809	4.807	0.002	1.095	17506	0.2708	104	37.5
* 11 13C2 PFOA	415.00 > 370.00	5.000	4.998	0.002		3168748	5.00		342

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d

Injection Date: 09-Aug-2022 00:15:42

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

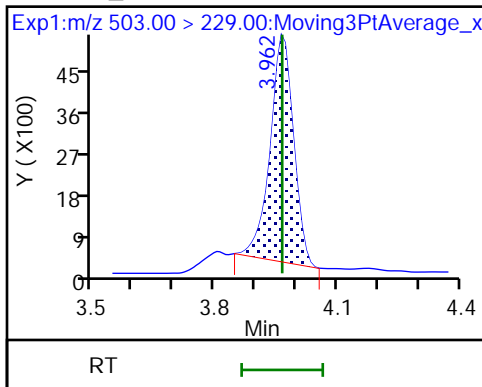
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

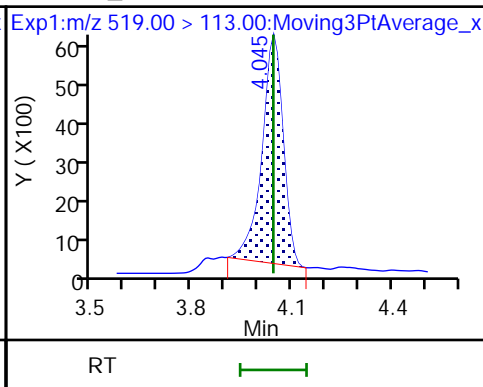
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

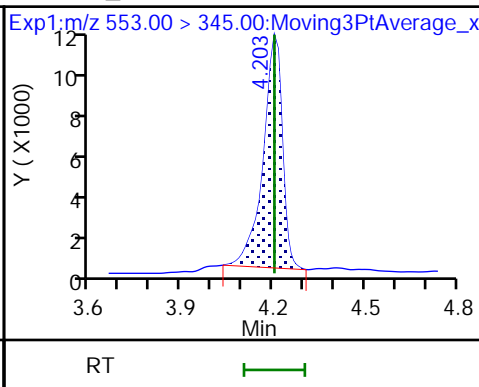
1 BFS_AB2



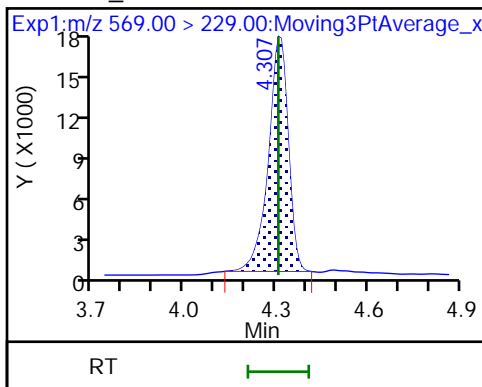
2 BFS_A3B



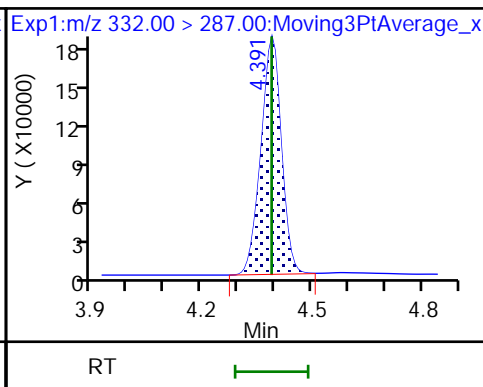
3 BFS_B3



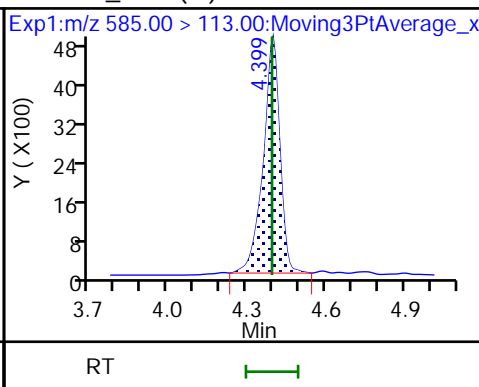
4 BFS_A2B2



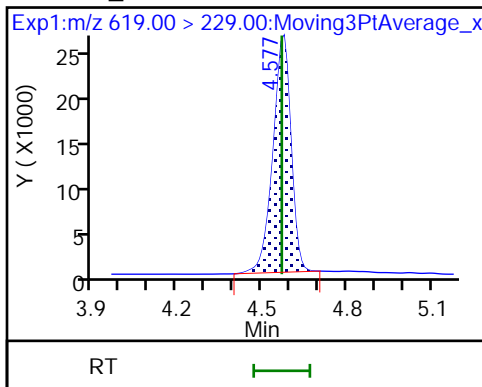
D 6 13C3 HFPO-DA



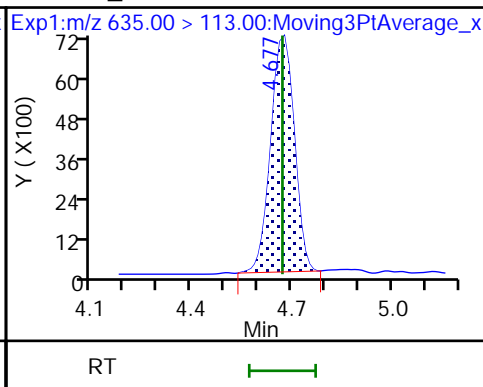
5 BFS_A4B (M)



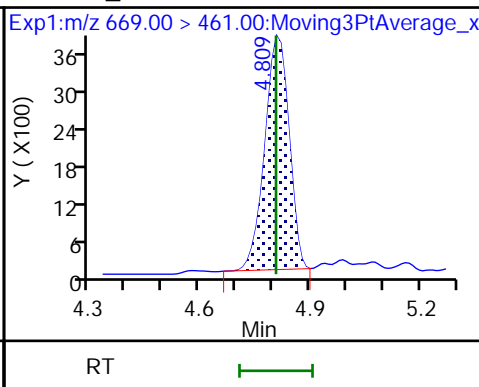
7 BFS_AB3



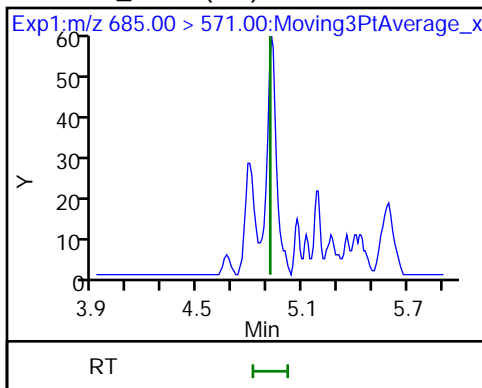
8 BFS_A3B2



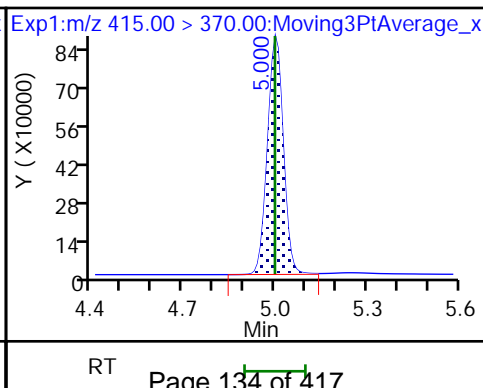
9 BFS_B4



10 BFS_A2B3 (ND)



* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

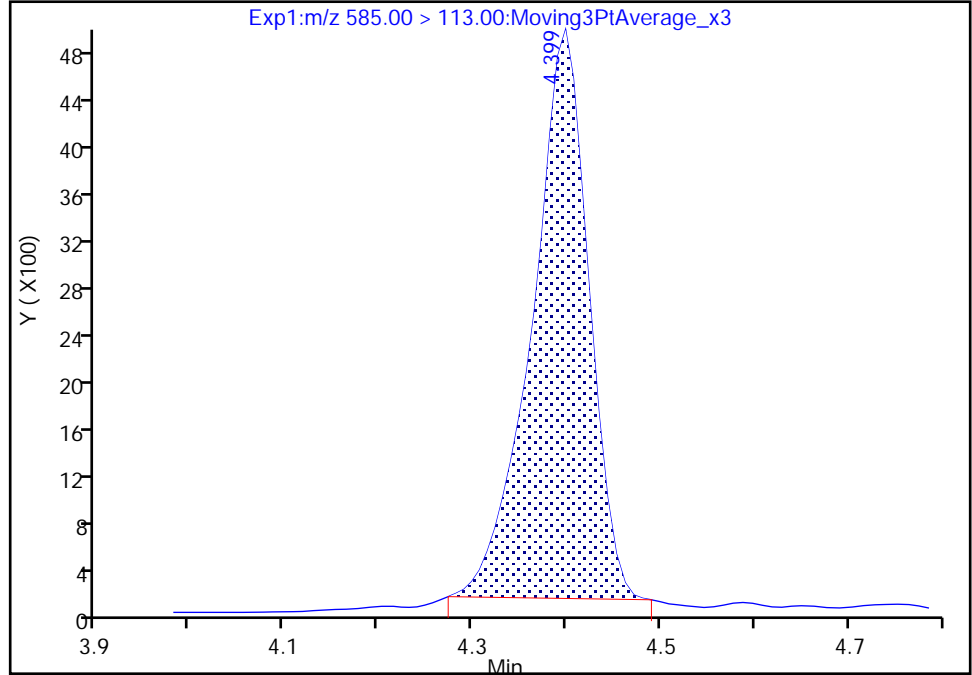
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d
Injection Date: 09-Aug-2022 00:15:42 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

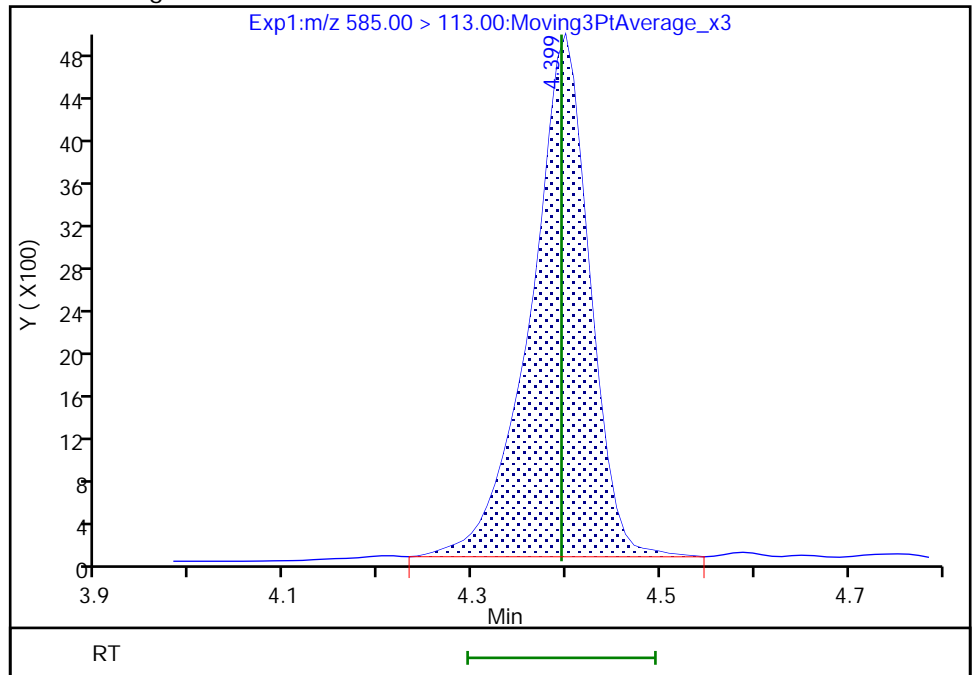
RT: 4.40
Area: 20345
Amount: 0.080727
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 21546
Amount: 0.084101
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:40:54
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Aug-2022 00:28:16 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:45 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:40

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.962	3.964	-0.002	0.902	59281	0.3318	93.1	842	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.921	73171	0.3647	91.6	71.4	M
3 BFS_B3									M
553.00 > 345.00	4.203	4.203	0.0	0.957	137604	1.22	96.4	94.9	M
4 BFS_A2B2									
569.00 > 229.00	4.307	4.306	0.001	0.981	211759	2.68	96.6	155	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.390	4.390	0.0	0.879	682883	5.21	104	291	
5 BFS_A4B									
585.00 > 113.00	4.399	4.395	0.004	1.002	55352	0.2124	96.5	128	
7 BFS_AB3									
619.00 > 229.00	4.567	4.569	-0.002	1.040	307463	2.96	99.6	213	
8 BFS_A3B2									
635.00 > 113.00	4.673	4.671	0.002	1.065	99924	0.5216	99.6	173	
9 BFS_B4									
669.00 > 461.00	4.805	4.807	-0.002	1.094	41754	0.6637	96.0	90.7	
10 BFS_A2B3									M
685.00 > 571.00	4.939	4.915	0.024	1.125	331	0.0499	95.2	10.5	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.001		3059096	5.00		325	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d

Injection Date: 09-Aug-2022 00:28:16

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

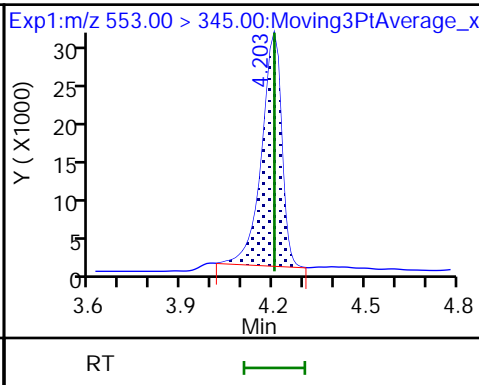
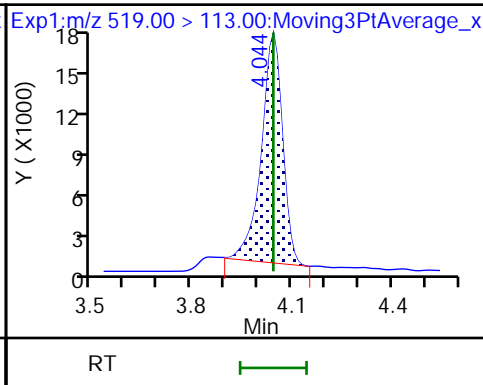
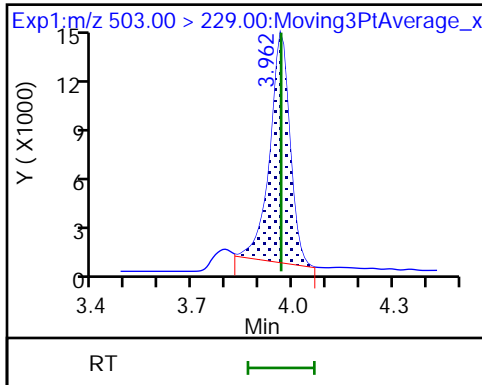
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

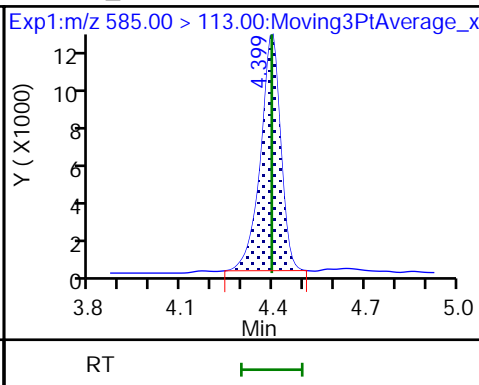
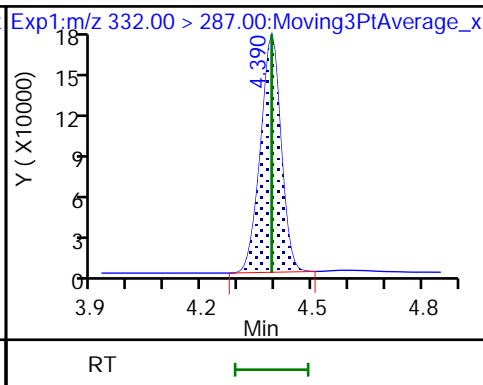
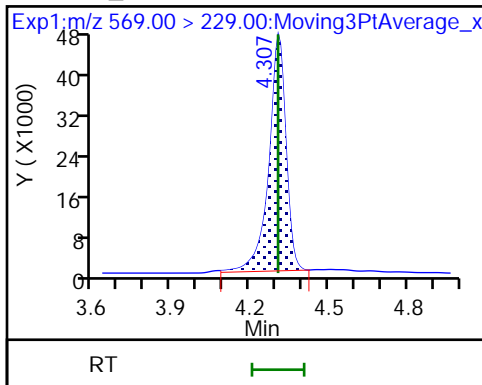
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

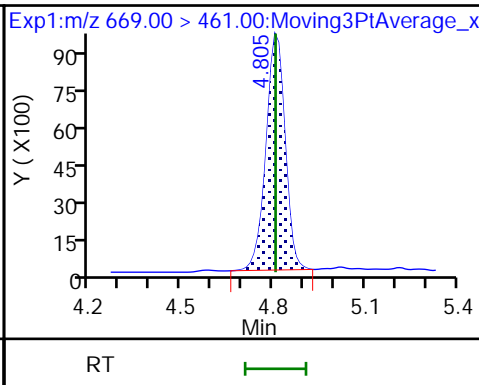
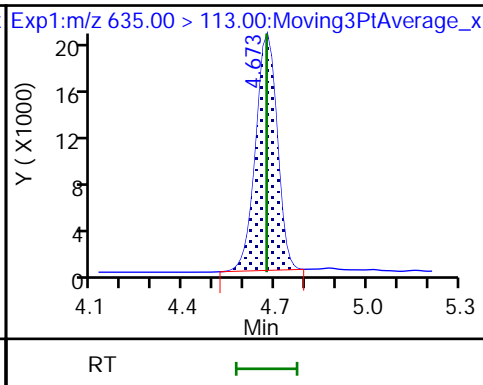
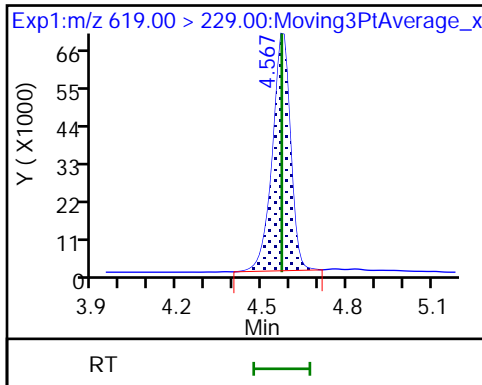
5 BFS_A4B



7 BFS_AB3

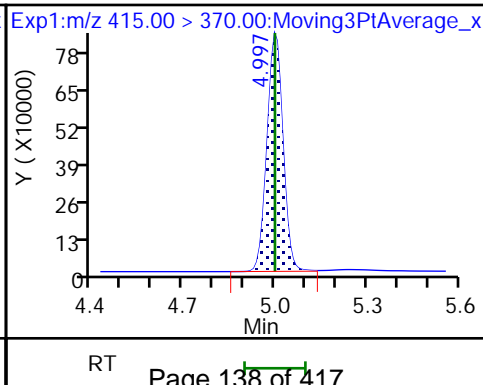
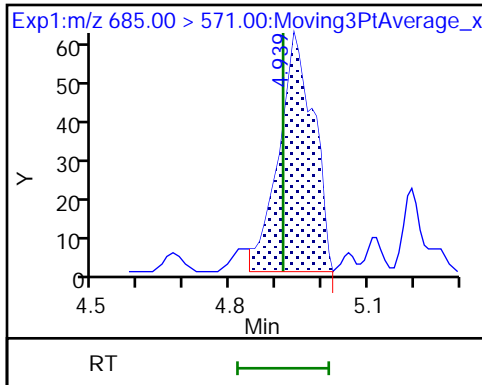
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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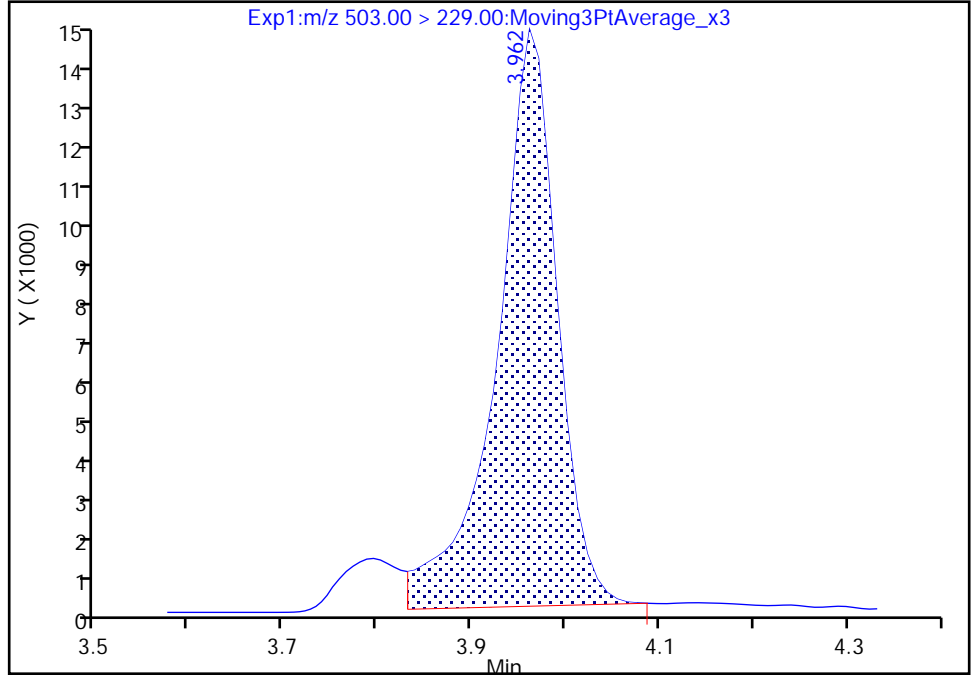
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Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

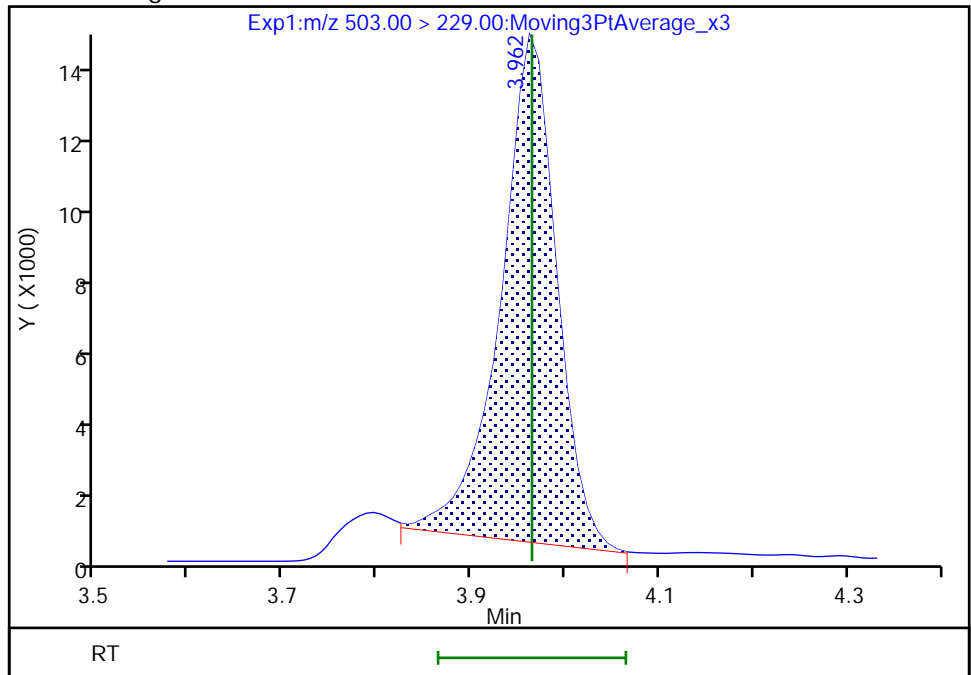
RT: 3.96
Area: 65228
Amount: 0.345869
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 59281
Amount: 0.331753
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

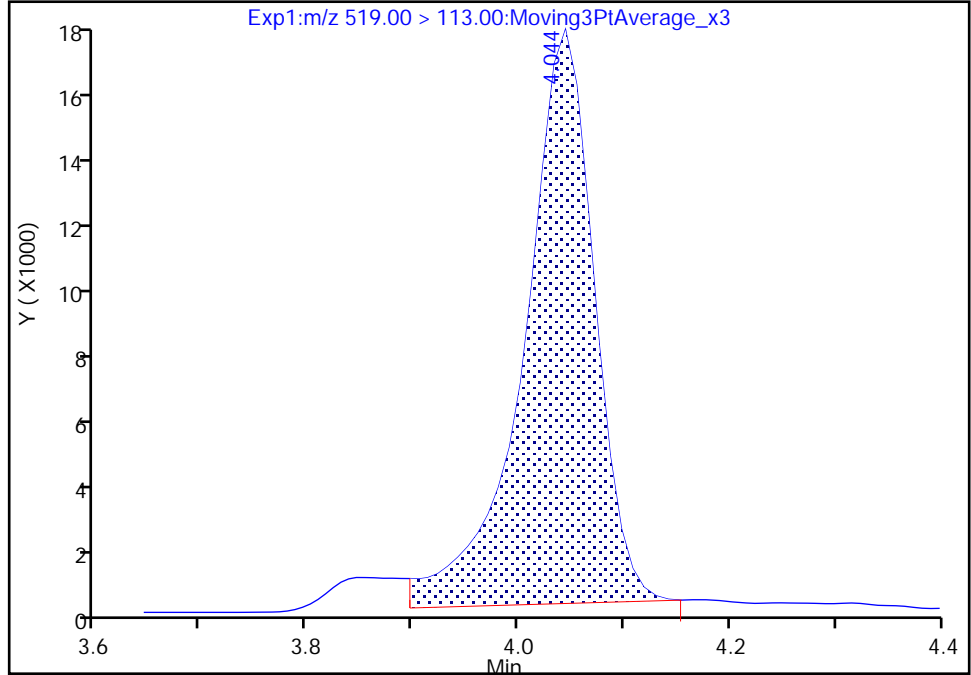
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

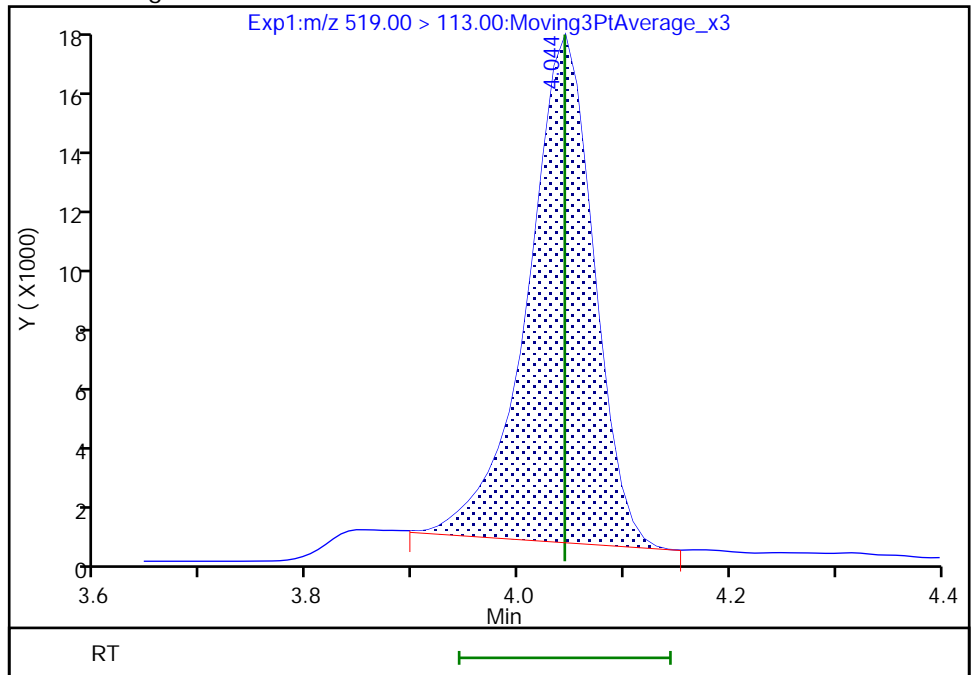
RT: 4.04
Area: 79421
Amount: 0.371267
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 73171
Amount: 0.364698
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:41:20
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

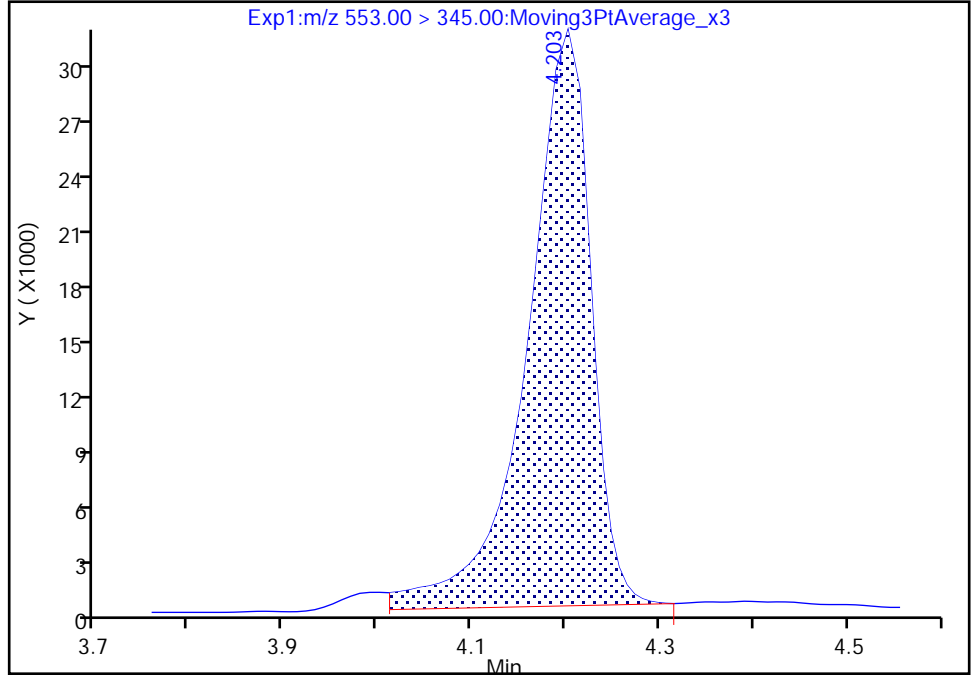
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

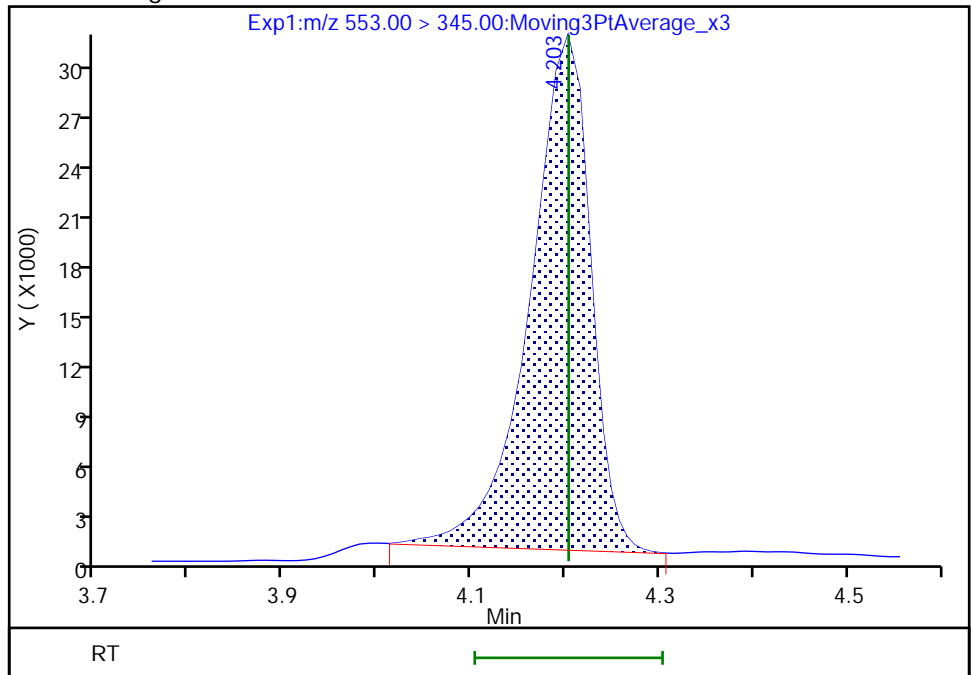
RT: 4.20
Area: 145264
Amount: 1.265293
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 137604
Amount: 1.221684
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:41:16
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

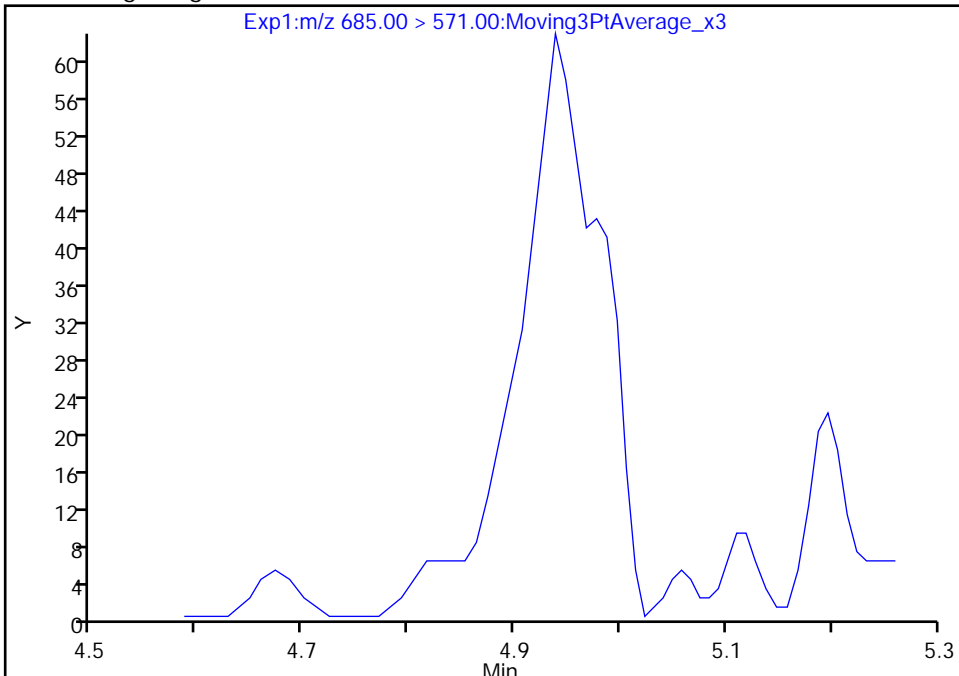
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

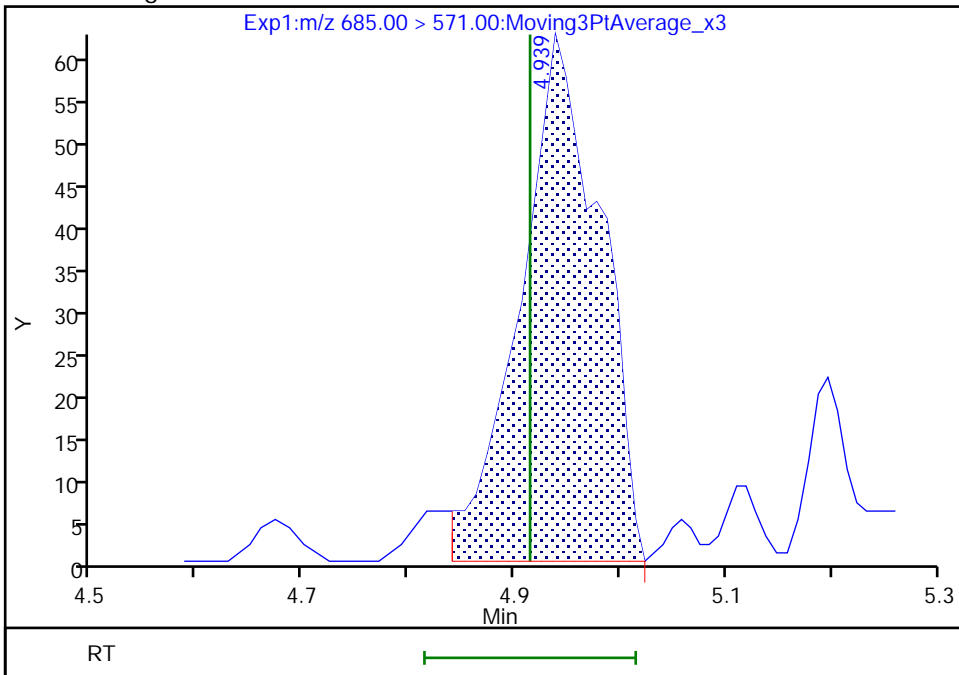
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.94
Area: 331
Amount: 0.049851
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 07:41:36
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Aug-2022 00:40:54 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.971	3.964	0.007	0.903	168892	0.9515	107	1545
2 BFS_A3B	519.00 > 113.00	4.054	4.044	0.010	0.922	206104	1.03	103	95.1
3 BFS_B3	553.00 > 345.00	4.215	4.203	0.012	0.958	359047	3.17	100	138
4 BFS_A2B2	569.00 > 229.00	4.315	4.306	0.009	0.981	561437	7.28	105	150
D 6 13C3 HFPO-DA	332.00 > 287.00	4.398	4.390	0.008	0.879	675382	4.93	98.5	304
5 BFS_A4B	585.00 > 113.00	4.398	4.395	0.003	1.000	139072	0.5333	97.0	163
7 BFS_AB3	619.00 > 229.00	4.577	4.569	0.008	1.041	764392	7.44	100	228
8 BFS_A3B2	635.00 > 113.00	4.673	4.671	0.002	1.063	251306	1.32	101	207
9 BFS_B4	669.00 > 461.00	4.817	4.807	0.010	1.095	110007	1.78	103	156
10 BFS_A2B3	685.00 > 571.00	4.918	4.915	0.003	1.118	931	0.1557	119	18.9 M
* 11 13C2 PFOA	415.00 > 370.00	5.006	4.998	0.008		3199293	5.00		368

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d

Injection Date: 09-Aug-2022 00:40:54

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

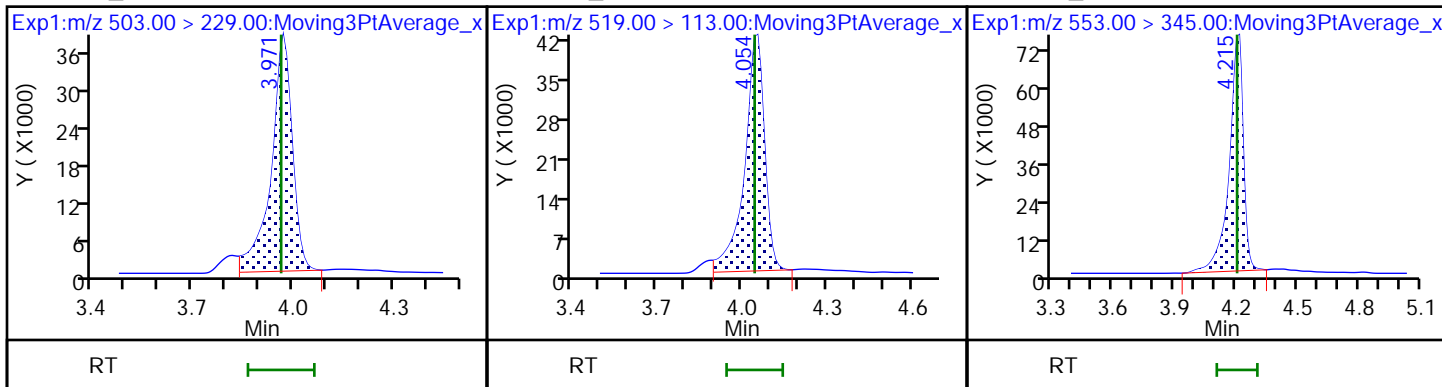
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

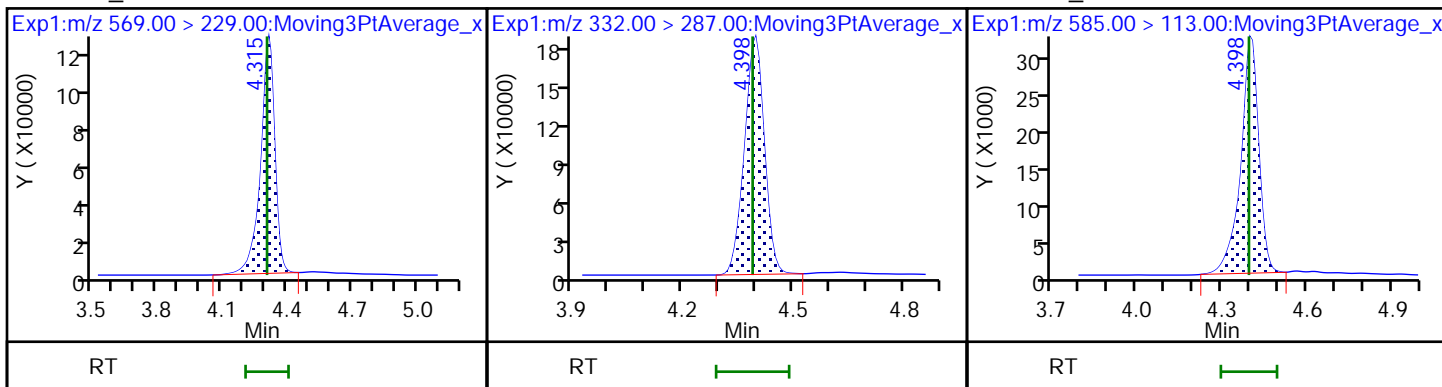
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

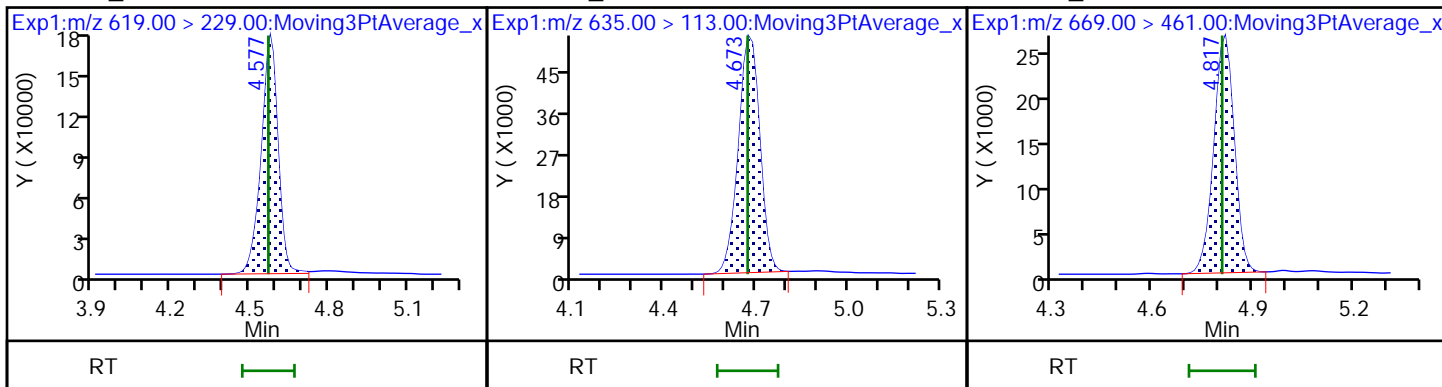
5 BFS_A4B



7 BFS_AB3

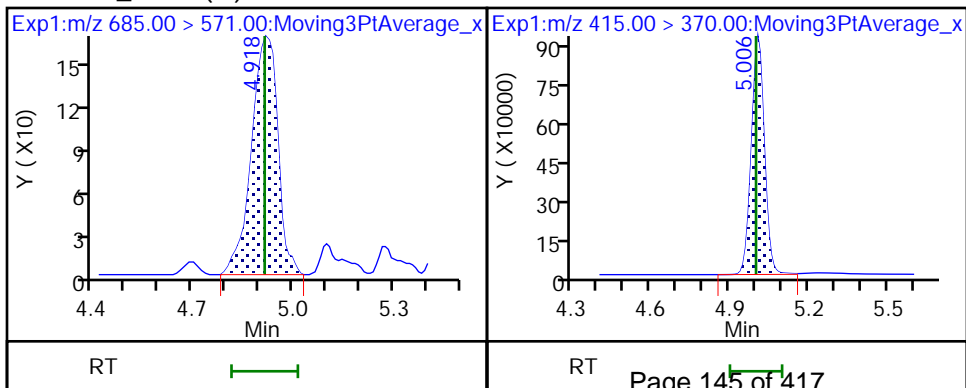
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

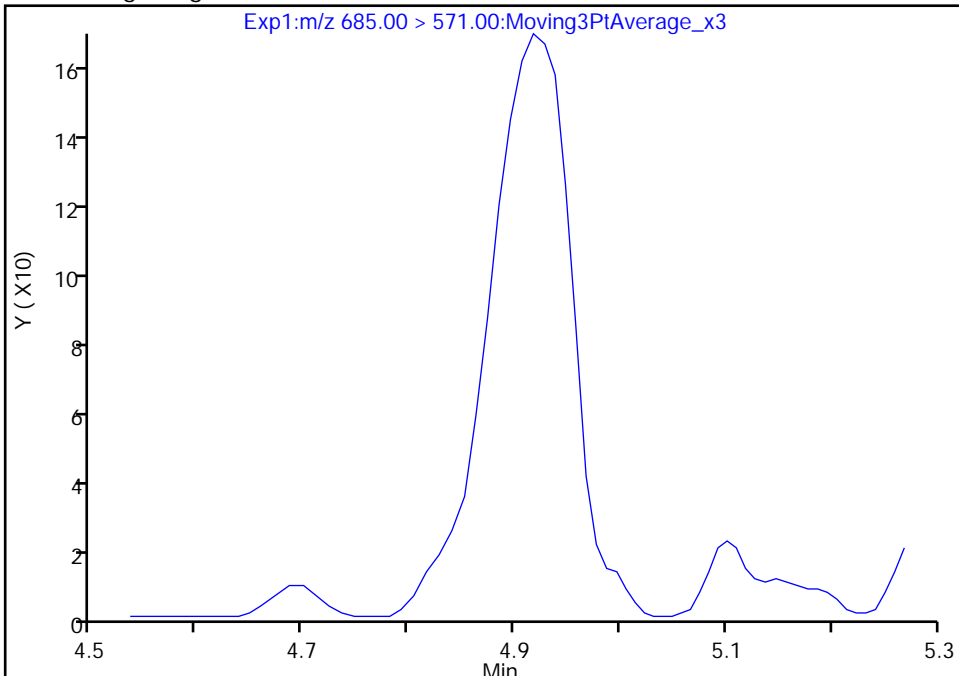
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d
Injection Date: 09-Aug-2022 00:40:54 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

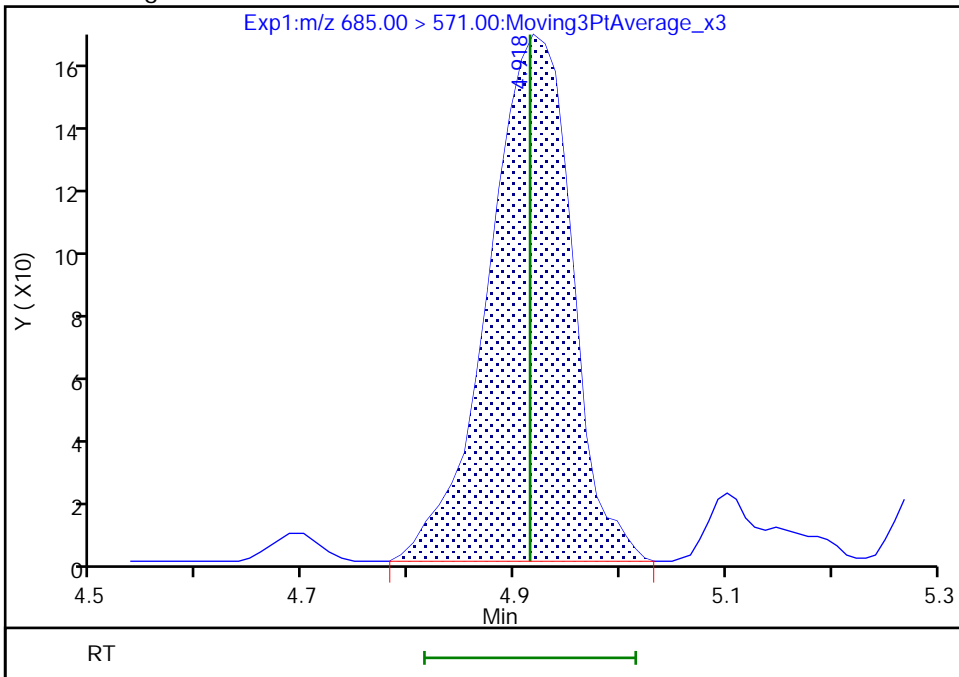
Not Detected
Expected RT: 4.91

Processing Integration Results



RT: 4.92
Area: 931
Amount: 0.155732
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:41:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 09-Aug-2022 00:53:32 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:47 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:38:06

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.970	3.964	0.006	0.903	326863	1.87	105	1519
2 BFS_A3B	519.00 > 113.00	4.053	4.044	0.009	0.922	420871	2.13	107	79.9
3 BFS_B3	553.00 > 345.00	4.213	4.203	0.010	0.958	744046	6.66	105	143 M
4 BFS_A2B2	569.00 > 229.00	4.313	4.306	0.007	0.981	1124117	14.9	107	138 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.396	4.390	0.006	0.878	663036	4.95	99.1	279
5 BFS_A4B	585.00 > 113.00	4.396	4.395	0.001	1.000	289554	1.13	102	207
7 BFS_AB3	619.00 > 229.00	4.575	4.569	0.006	1.041	1576044	15.6	105	209
8 BFS_A3B2	635.00 > 113.00	4.671	4.671	0.0	1.063	497178	2.66	101	208
9 BFS_B4	669.00 > 461.00	4.816	4.807	0.009	1.095	219296	3.62	105	190
10 BFS_A2B3	685.00 > 571.00	4.917	4.915	0.002	1.119	1335	0.2309	88.1	25.7 Ma M
* 11 13C2 PFOA	415.00 > 370.00	5.005	4.998	0.007		3124126	5.00		345

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d

Injection Date: 09-Aug-2022 00:53:32

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

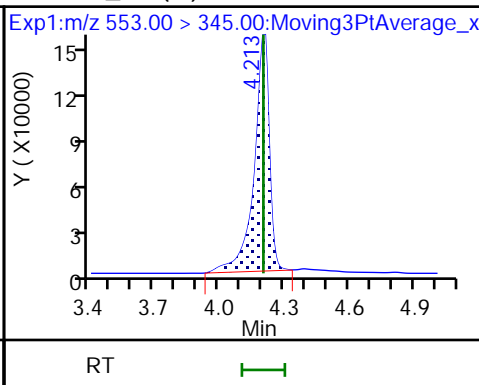
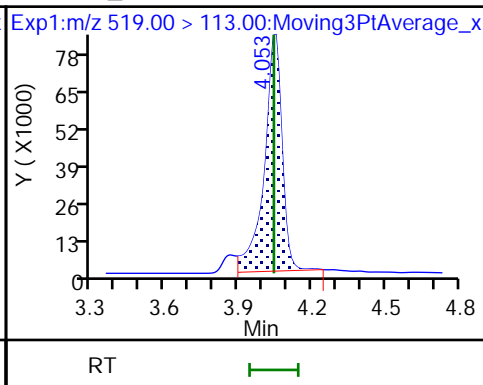
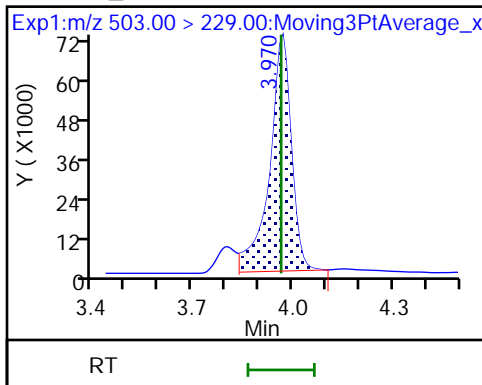
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

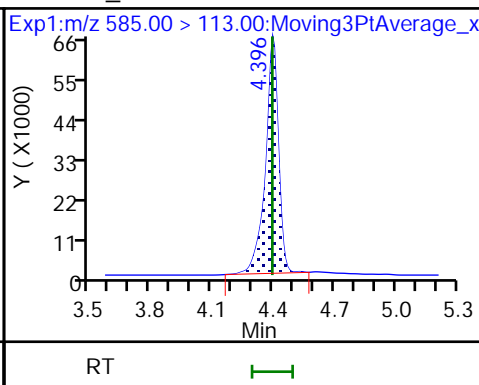
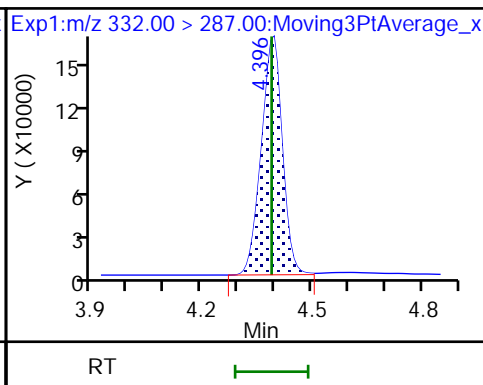
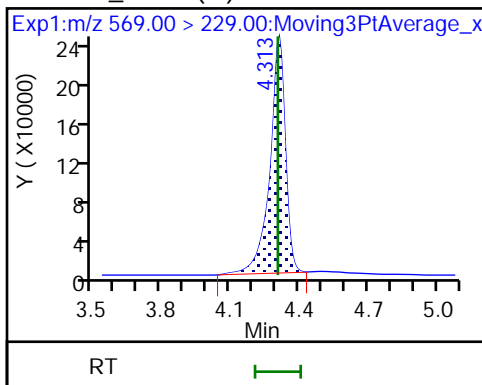
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

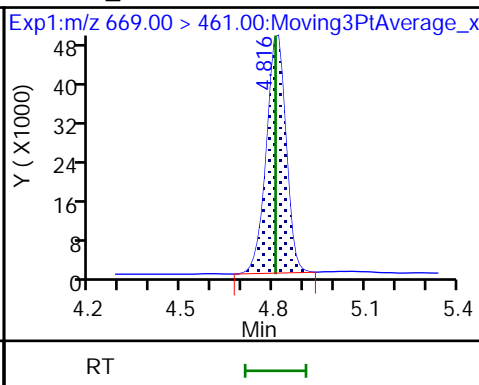
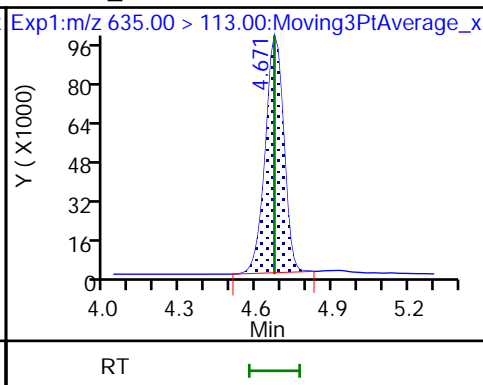
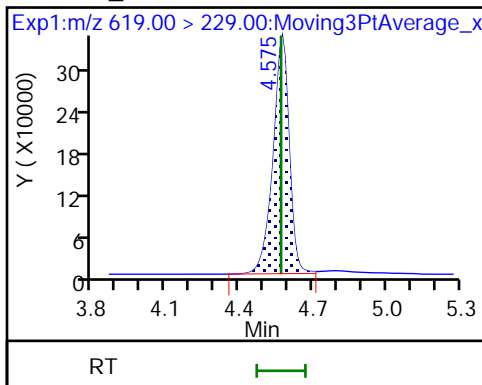
5 BFS_A4B



7 BFS_AB3

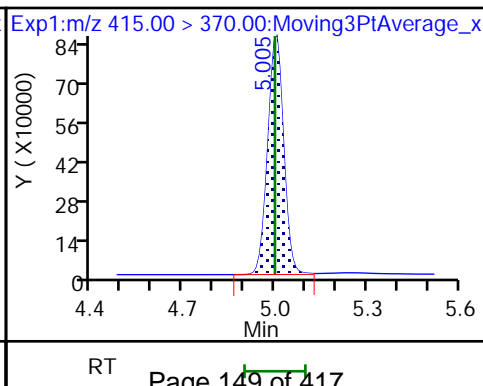
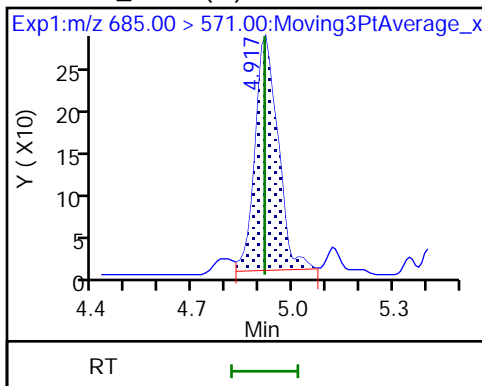
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

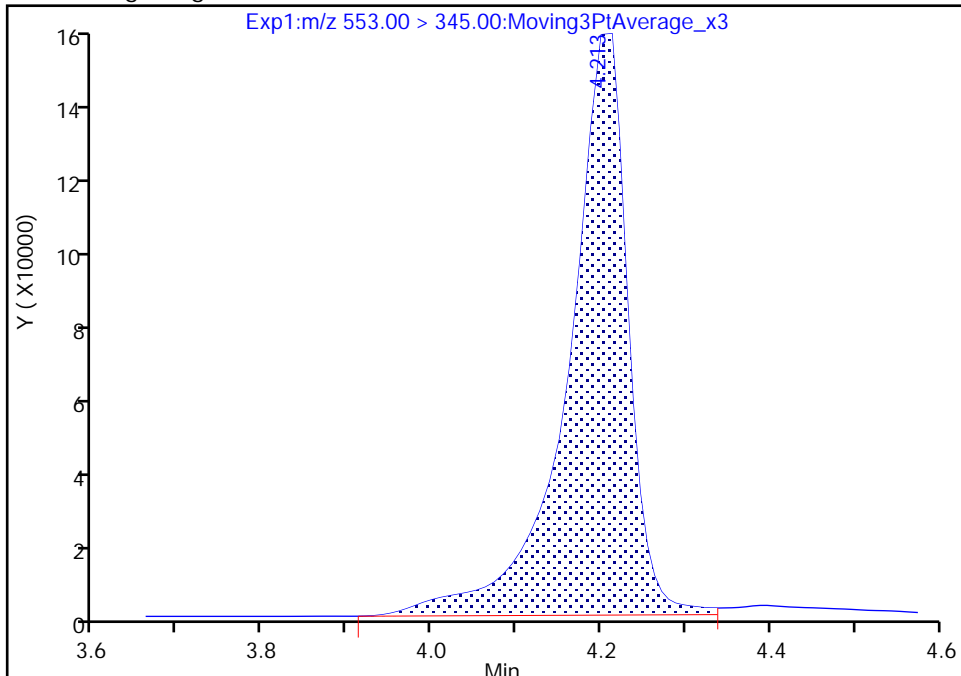
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

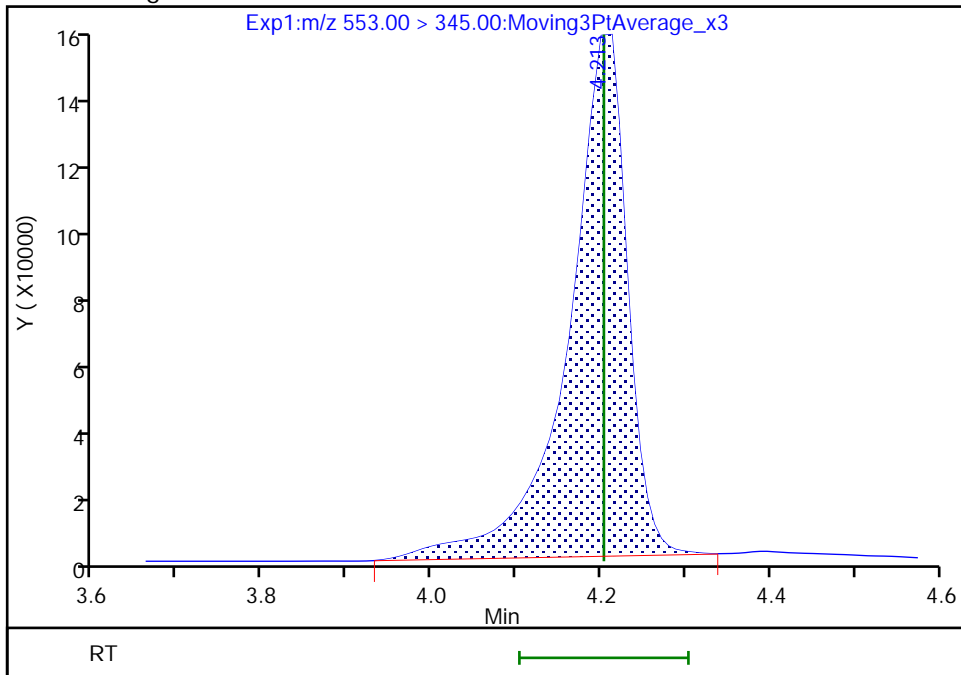
RT: 4.21
Area: 765231
Amount: 6.676323
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 744046
Amount: 6.656727
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:37:08
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

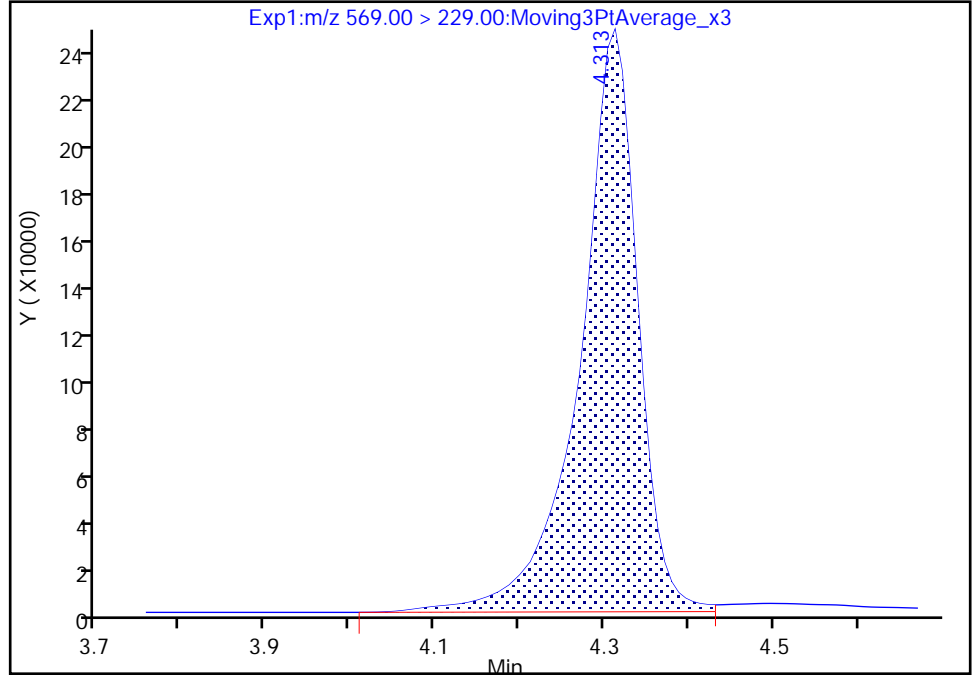
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

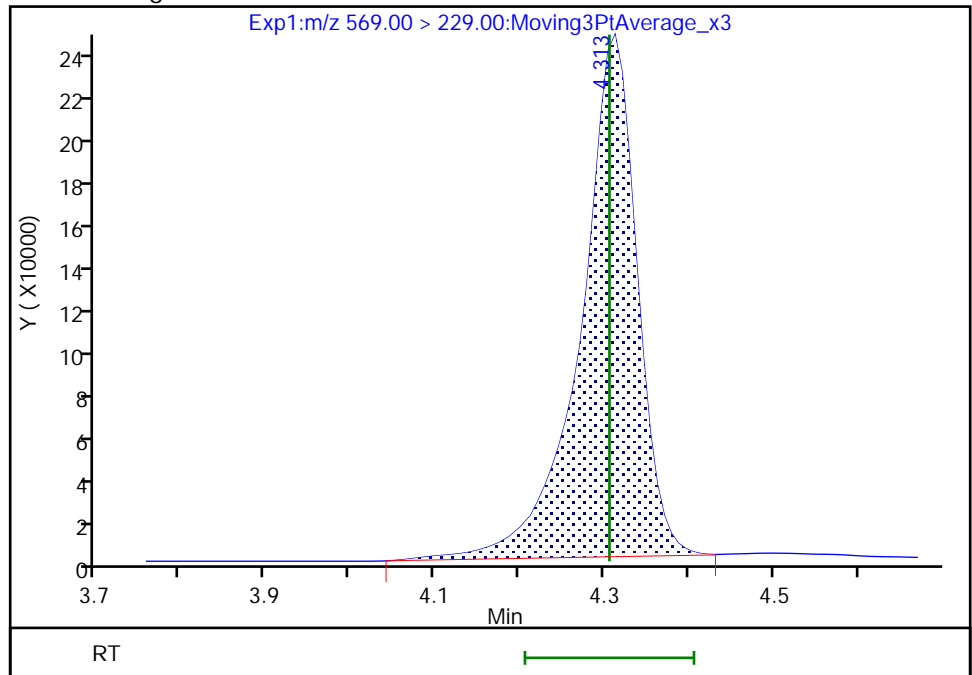
RT: 4.31
Area: 1156864
Amount: 14.946355
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 1124117
Amount: 14.909431
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:37:02
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

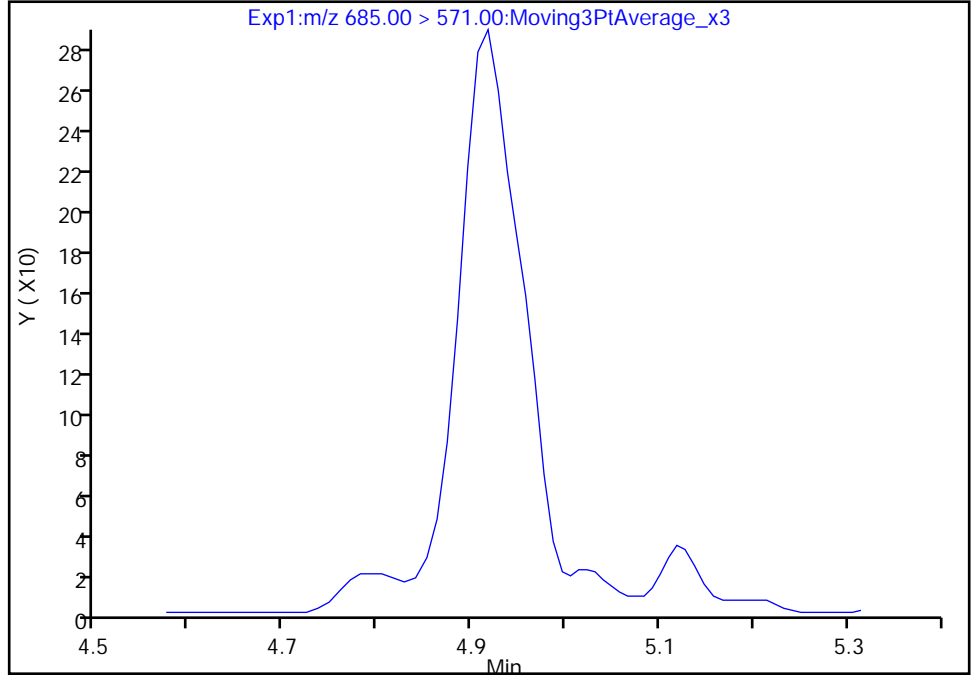
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

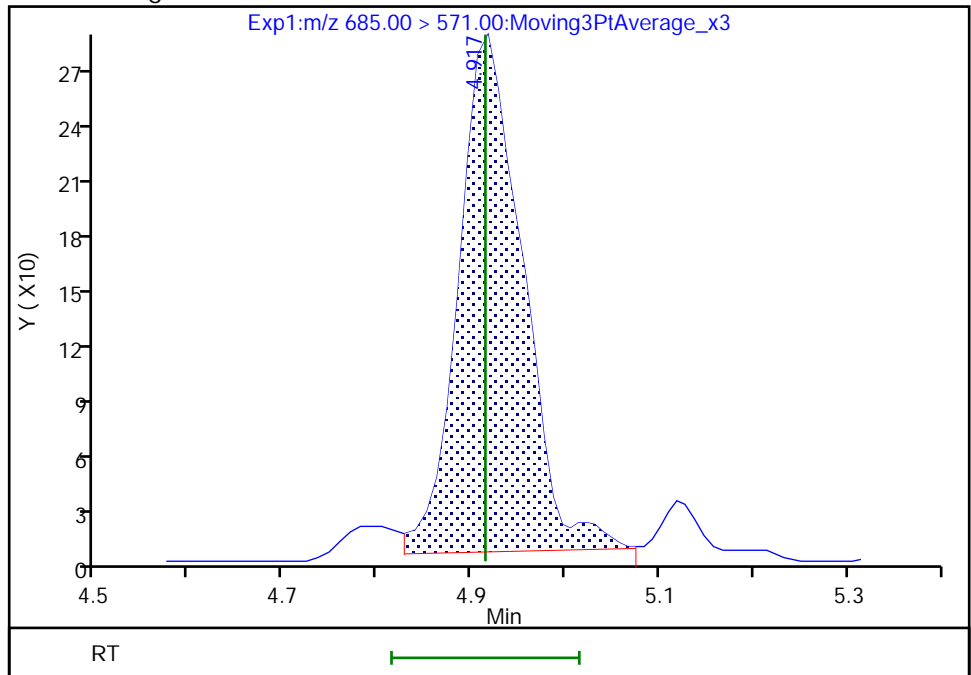
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.92
Area: 1335
Amount: 0.230887
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 07:36:51
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Aug-2022 01:06:05 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:48 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:42:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.970	3.964	0.006	0.905	783975	4.65	104	2363
2 BFS_A3B	519.00 > 113.00	4.042	4.044	-0.002	0.921	999379	5.24	105	89.5
3 BFS_B3	553.00 > 345.00	4.200	4.203	-0.003	0.957	1707610	15.9	100	142 M
4 BFS_A2B2	569.00 > 229.00	4.304	4.306	-0.002	0.981	2714045	37.5	108	143
5 BFS_A4B	585.00 > 113.00	4.396	4.395	0.001	1.002	676057	2.73	99.3	191
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.390	-0.002	0.878	637015	4.79	95.8	278
7 BFS_AB3	619.00 > 229.00	4.564	4.569	-0.005	1.040	3689715	38.3	103	231
8 BFS_A3B2	635.00 > 113.00	4.671	4.671	0.0	1.065	1217047	6.77	103	203
9 BFS_B4	669.00 > 461.00	4.805	4.807	-0.002	1.095	509550	8.76	101	230
10 BFS_A2B3	685.00 > 571.00	4.908	4.915	-0.007	1.118	3417	0.6265	95.7	56.9
* 11 13C2 PFOA	415.00 > 370.00	4.998	4.998	0.0		3102433	5.00		343

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d

Injection Date: 09-Aug-2022 01:06:05

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

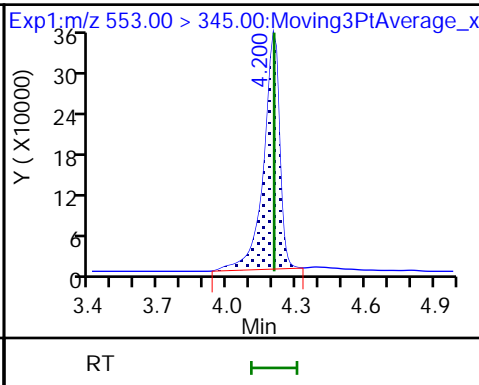
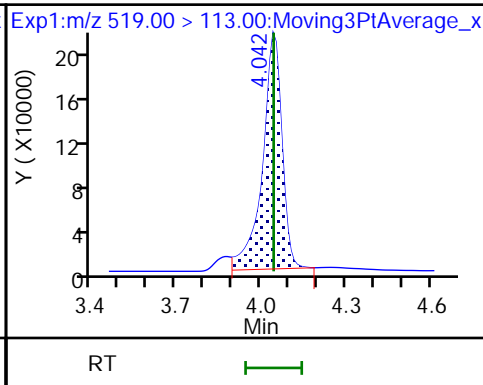
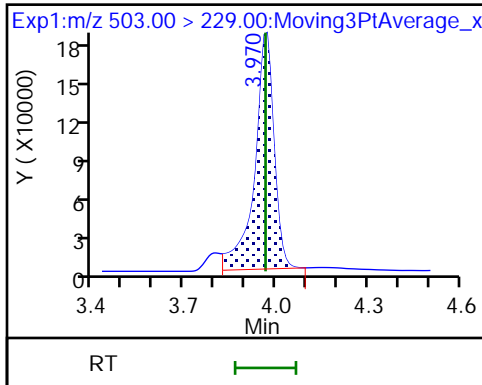
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

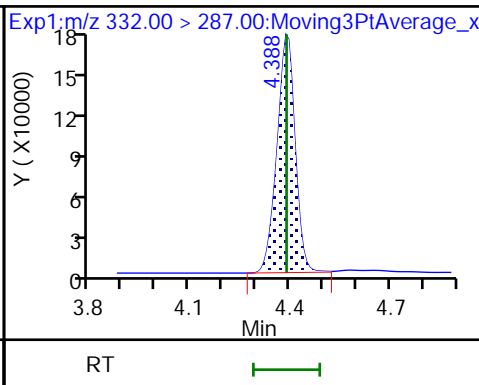
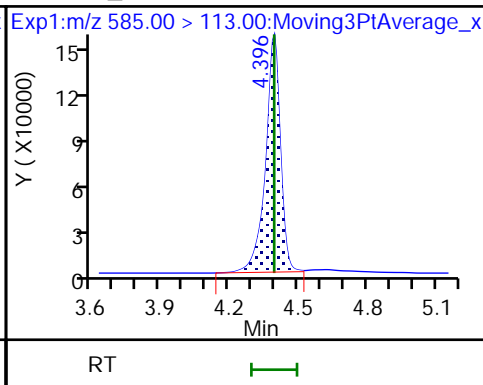
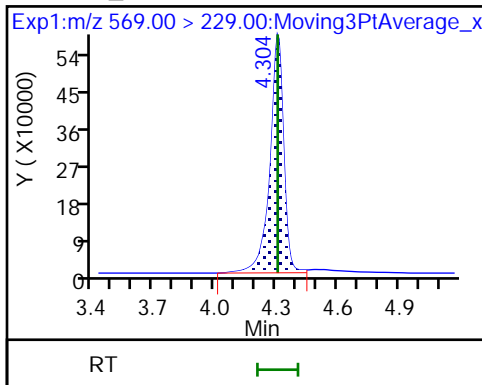
3 BFS_B3 (M)



4 BFS_A2B2

5 BFS_A4B

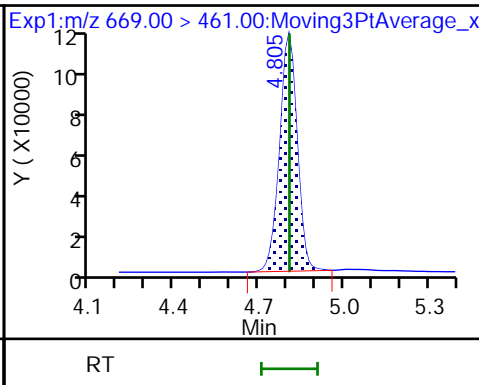
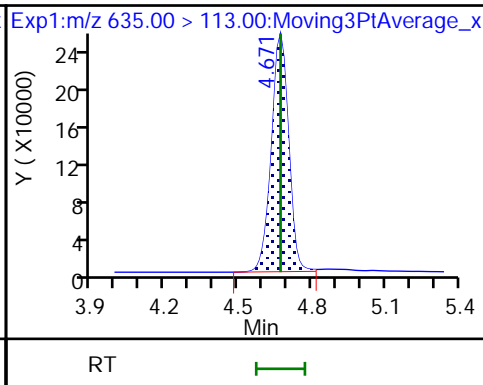
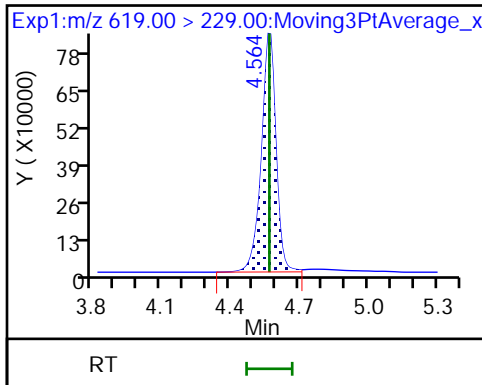
D 6 13C3 HFPO-DA



7 BFS_AB3

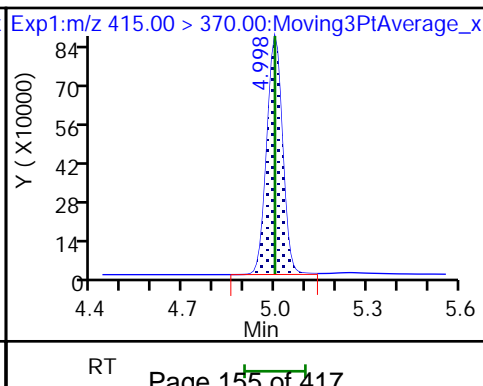
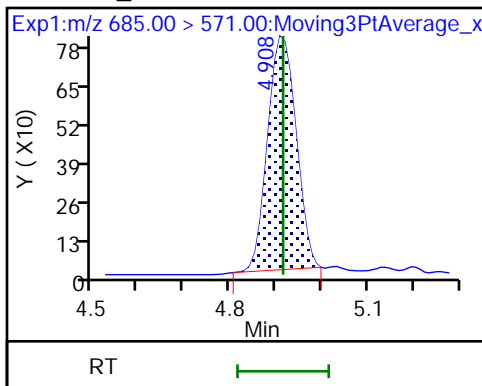
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

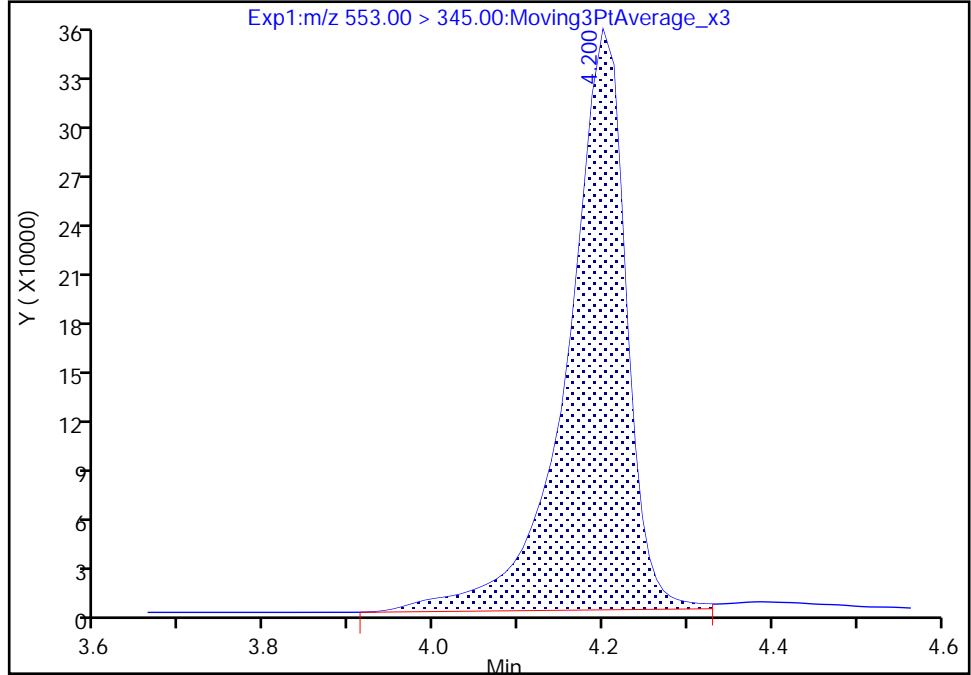
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d
Injection Date: 09-Aug-2022 01:06:05 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

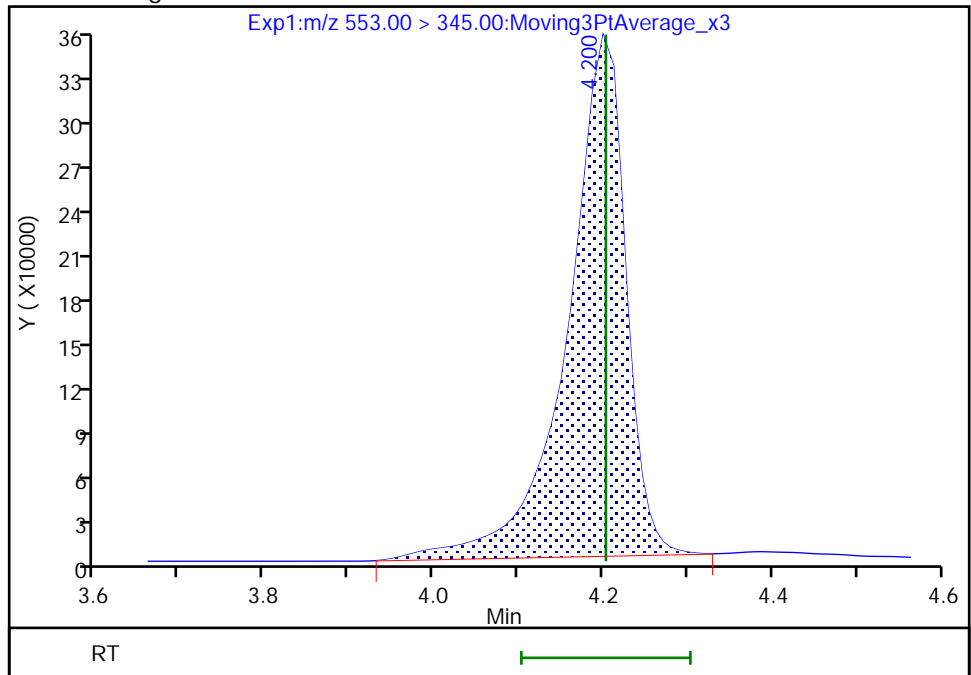
RT: 4.20
Area: 1739777
Amount: 15.750004
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 1707610
Amount: 15.856829
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:08
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Aug-2022 01:18:39 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:49 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:42:51

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.953	3.964	-0.011	0.902	1538103	8.80	98.8	1782	M
2 BFS_A3B									M
519.00 > 113.00	4.034	4.044	-0.010	0.921	1965503	9.90	99.5	65.2	M
3 BFS_B3									M
553.00 > 345.00	4.191	4.203	-0.012	0.956	3421113	30.8	97.1	100	M
4 BFS_A2B2									M
569.00 > 229.00	4.299	4.306	-0.007	0.981	5309692	71.3	103	167	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.383	4.390	-0.007	0.878	656951	5.13	103	280	
5 BFS_A4B									
585.00 > 113.00	4.383	4.395	-0.012	1.000	1379451	5.40	98.2	208	
7 BFS_AB3									
619.00 > 229.00	4.557	4.569	-0.012	1.040	7092409	71.9	96.6	171	
8 BFS_A3B2									
635.00 > 113.00	4.664	4.671	-0.007	1.064	2287806	12.4	94.4	185	
9 BFS_B4									
669.00 > 461.00	4.797	4.807	-0.010	1.094	1110166	18.5	107	261	
10 BFS_A2B3									M
685.00 > 571.00	4.911	4.915	-0.004	1.121	7278	1.30	99.1	121	M
* 11 13C2 PFOA									
415.00 > 370.00	4.990	4.998	-0.008		2990757	5.00		321	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

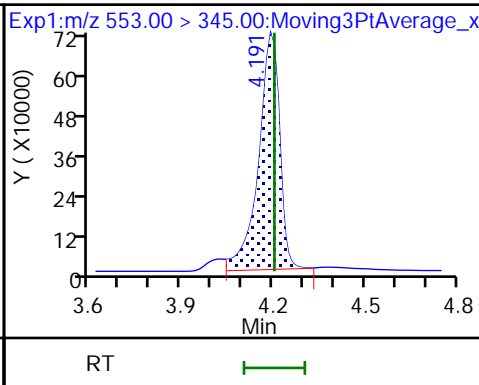
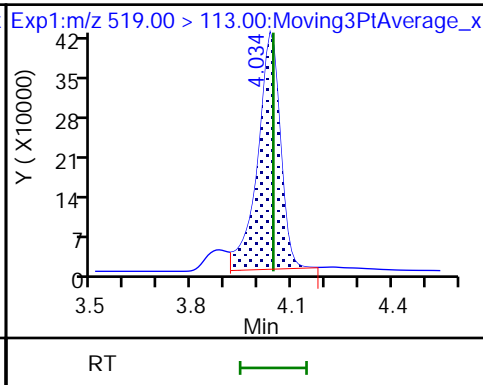
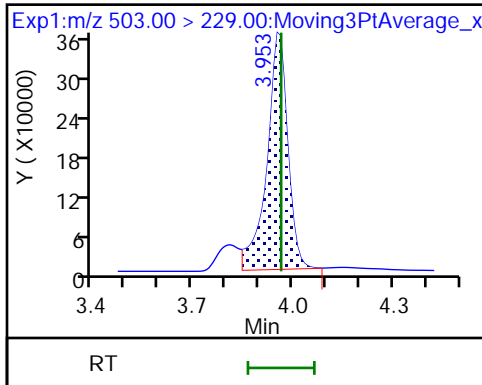
Amount Added: 200.00

Units: uL

1 BFS_AB2 (M)

2 BFS_A3B (M)

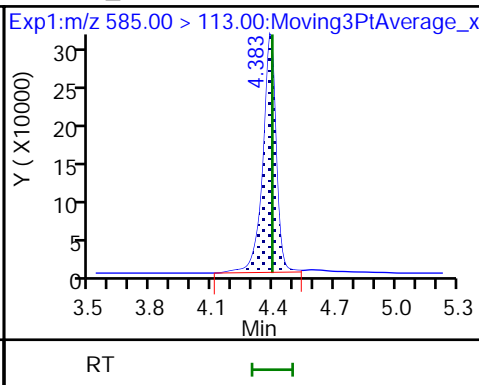
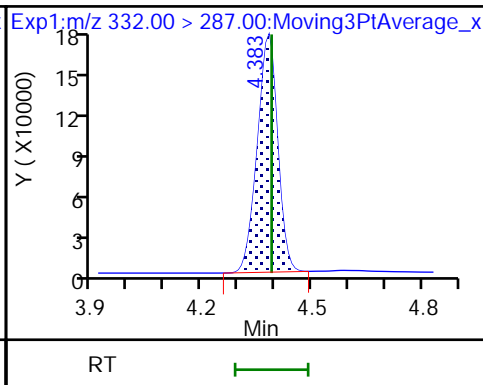
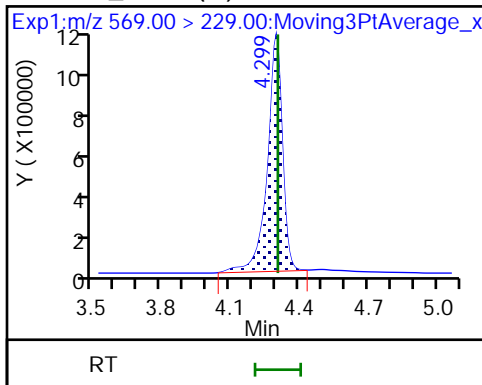
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

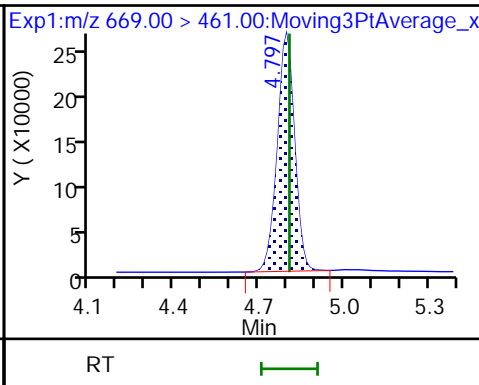
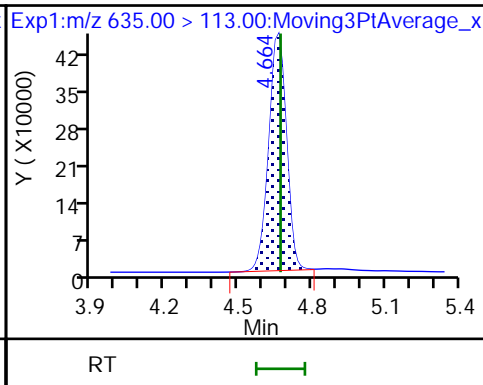
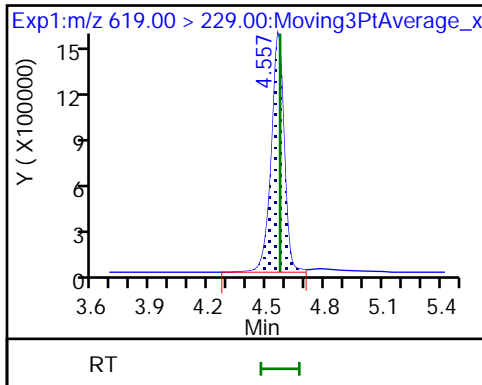
5 BFS_A4B



7 BFS_AB3

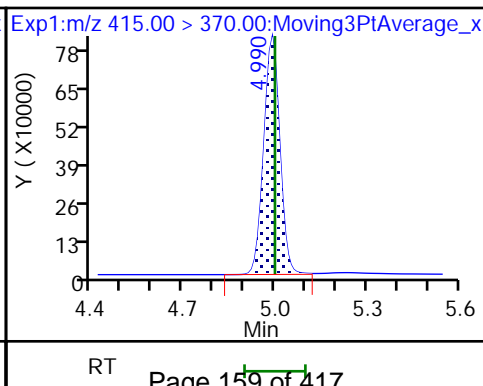
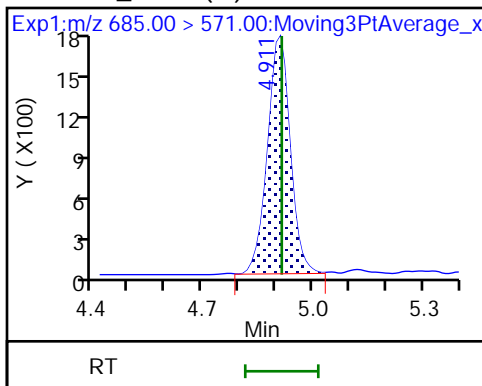
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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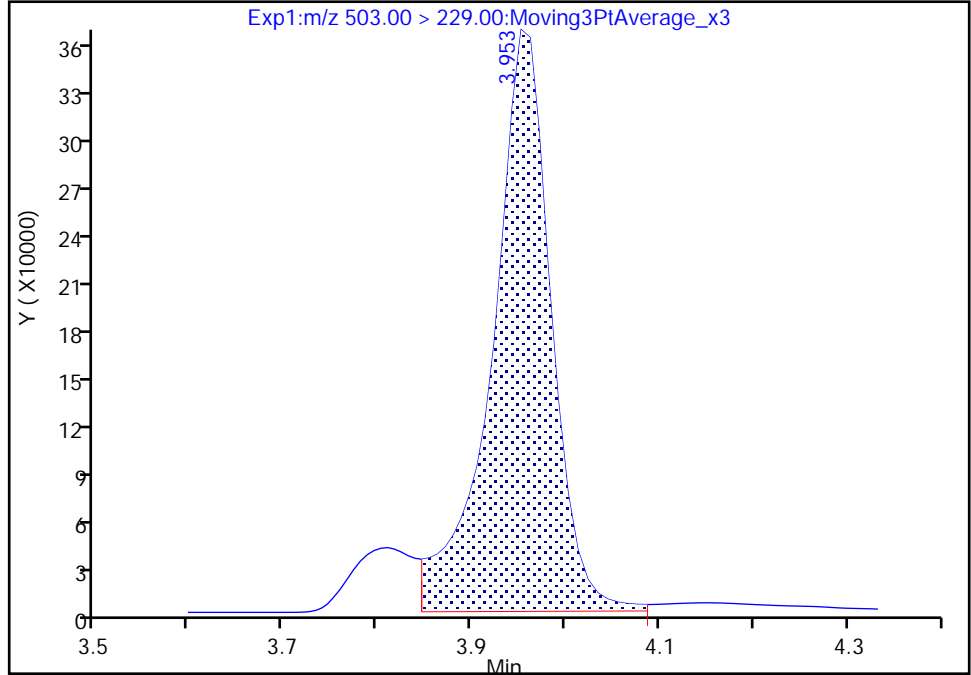
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

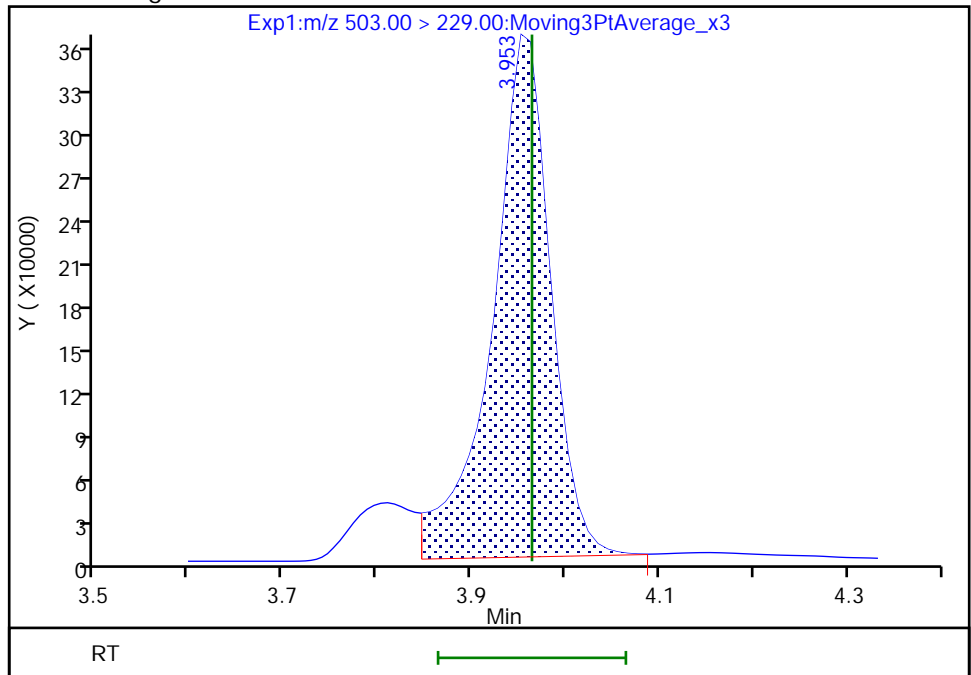
RT: 3.95
Area: 1572829
Amount: 8.190441
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 1538103
Amount: 8.798755
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:27
Audit Action: Manually Integrated

Audit Reason: Baseline
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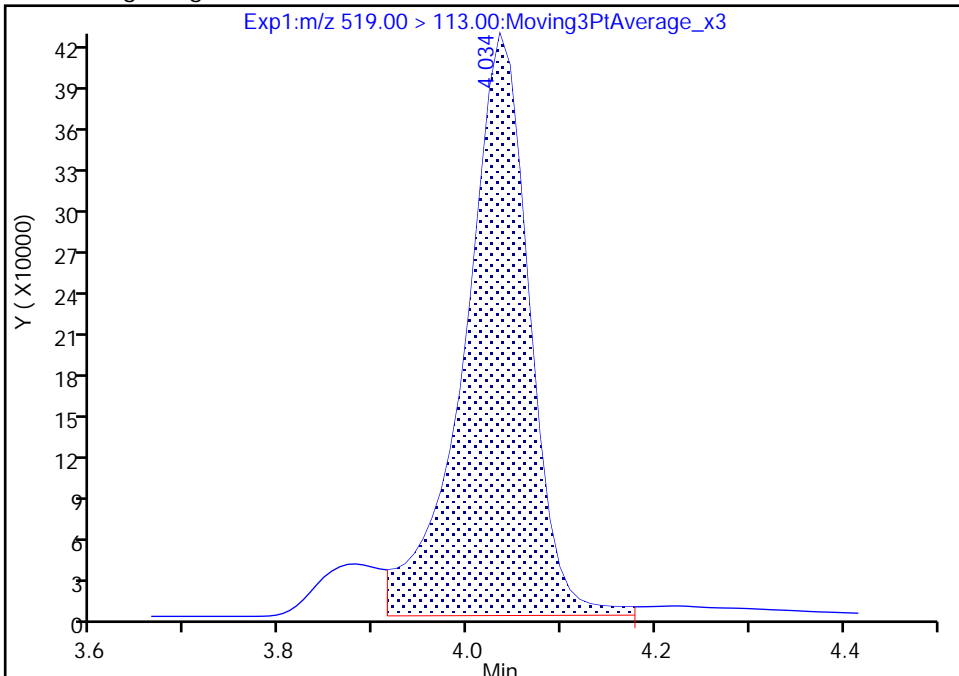
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d		
Injection Date:	09-Aug-2022 01:18:39	Instrument ID:	30733
Lims ID:	IC CAL 7		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	8
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	7

2 BFS_A3B, CAS: STL02880

Signal: 1

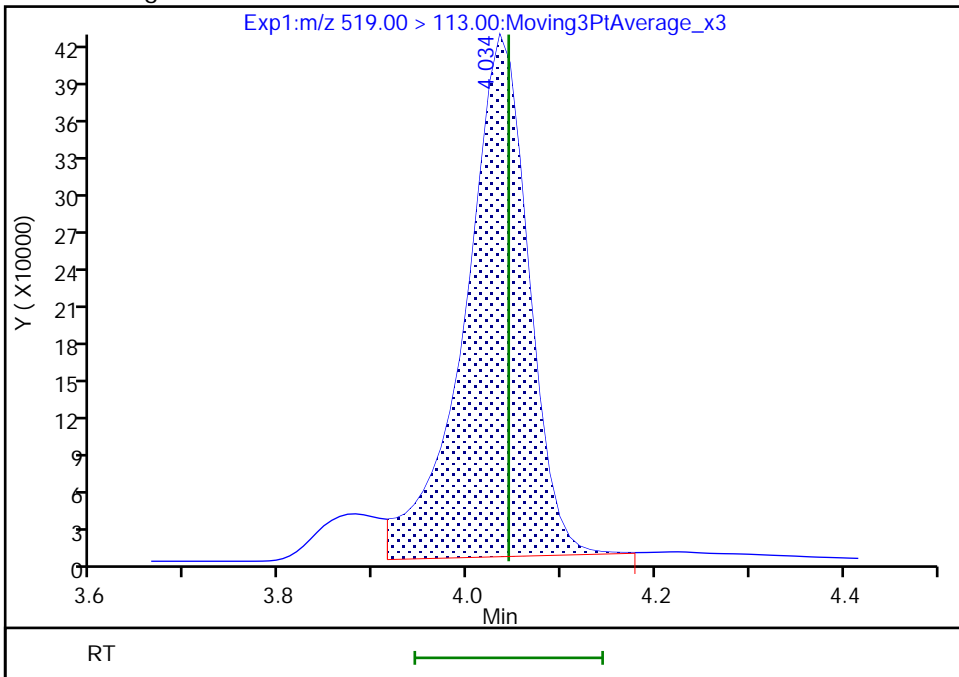
RT: 4.03
 Area: 2016614
 Amount: 10.037480
 Amount Units: ng/ml

Processing Integration Results



RT: 4.03
 Area: 1965503
 Amount: 9.904746
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:31
 Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

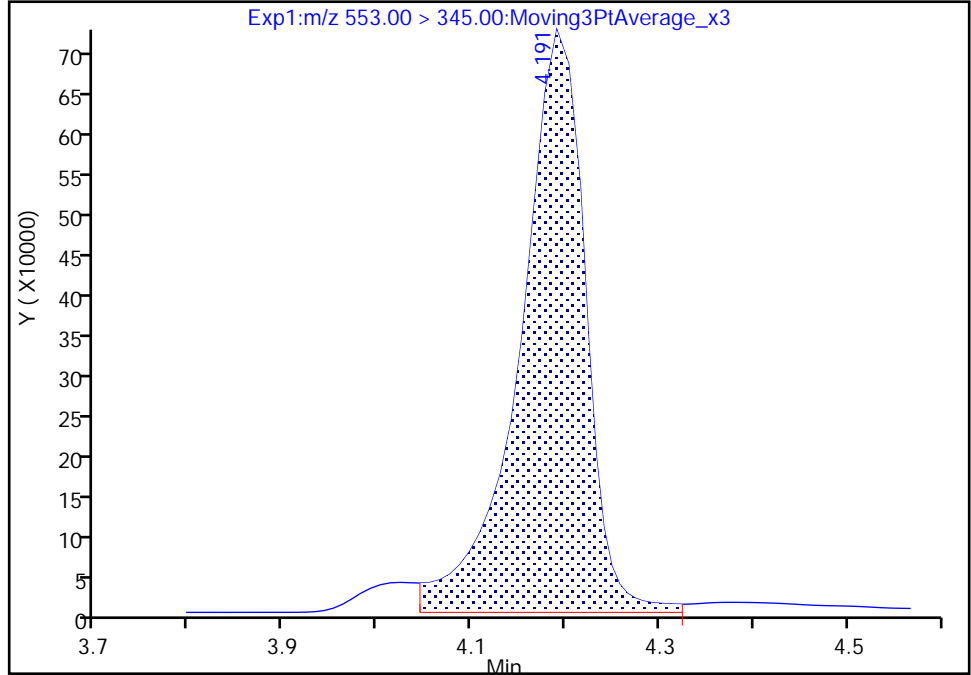
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

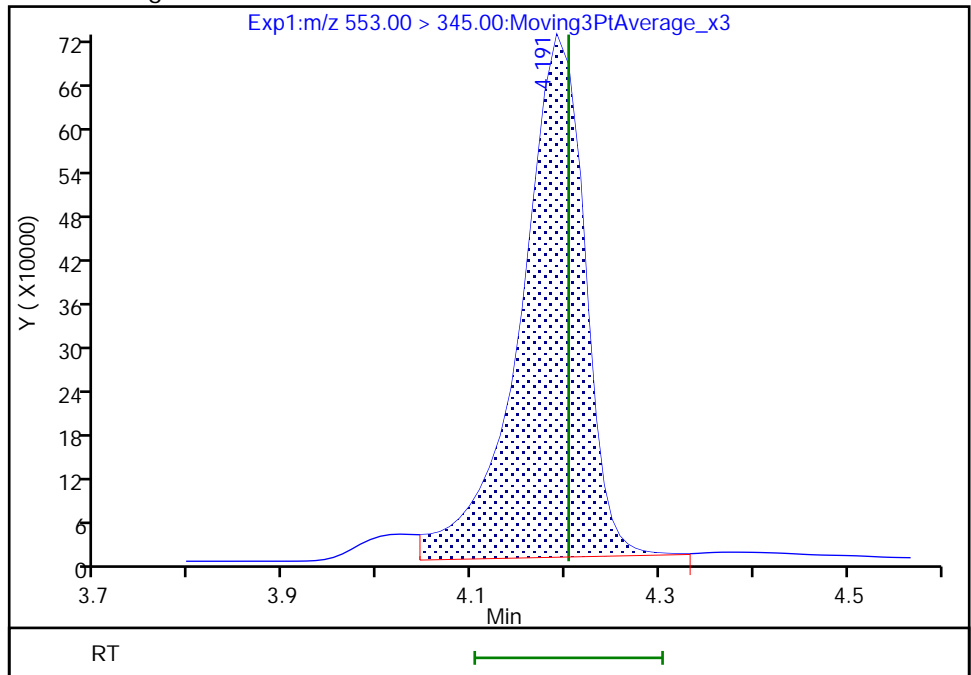
RT: 4.19
Area: 3509754
Amount: 30.780236
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 3421113
Amount: 30.774032
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

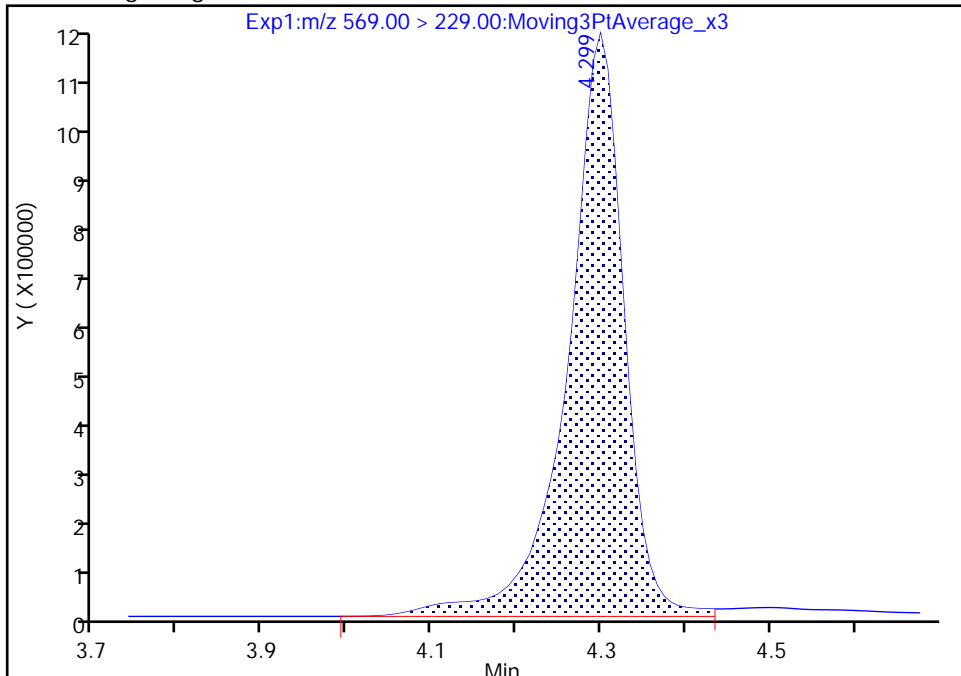
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

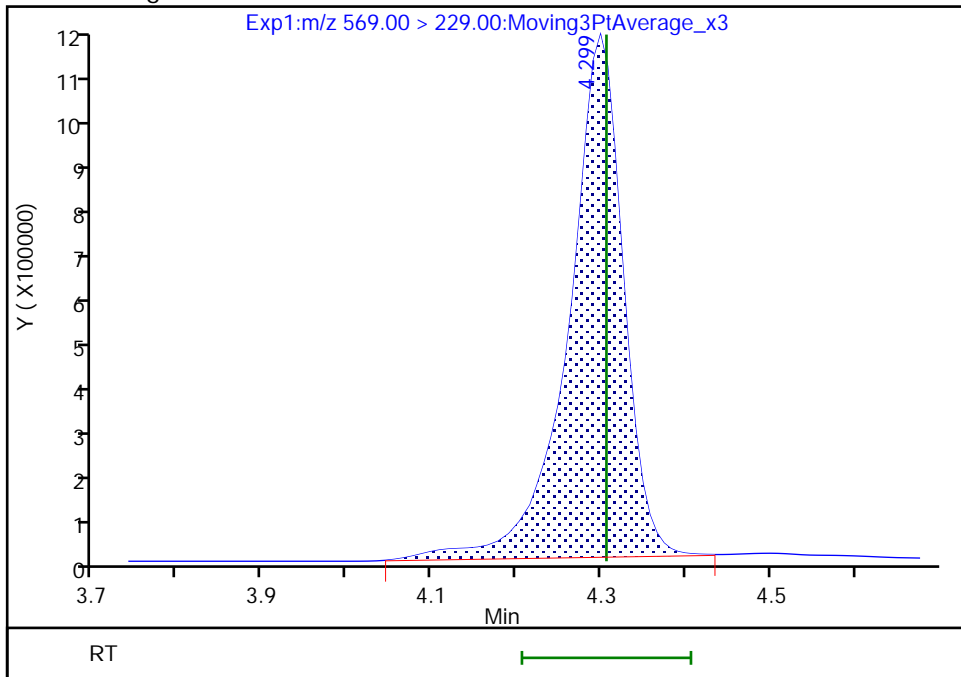
RT: 4.30
Area: 5475756
Amount: 71.450209
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 5309692
Amount: 71.280718
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:41
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

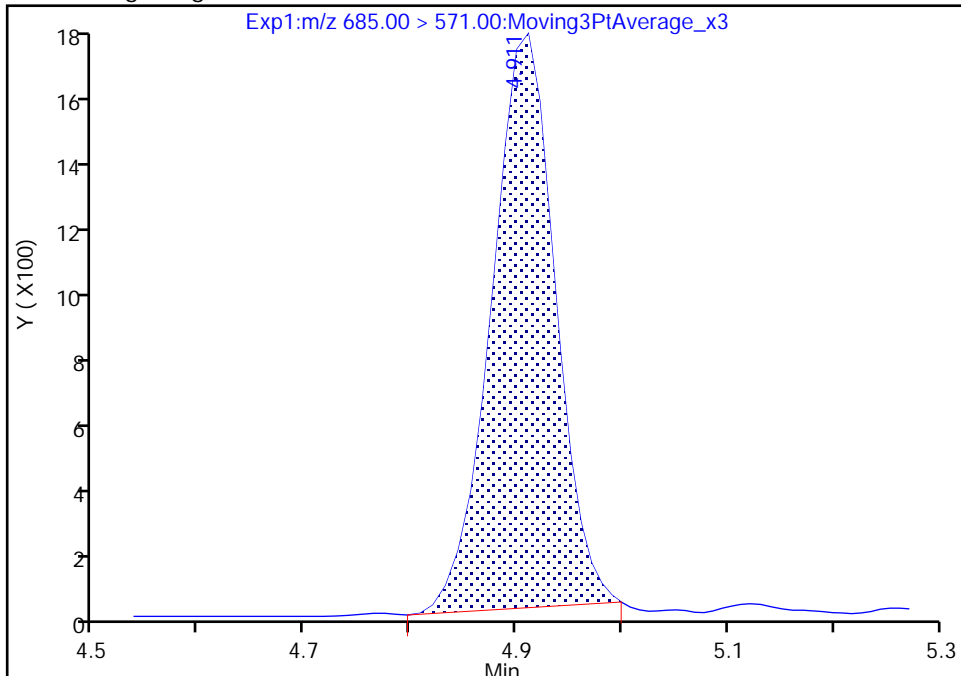
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

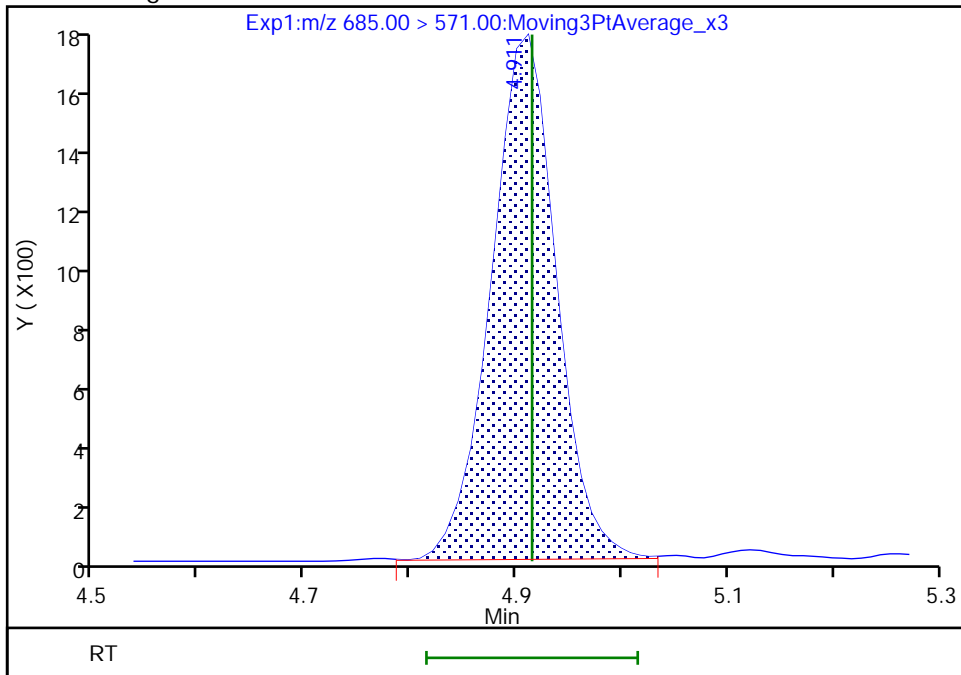
RT: 4.91
Area: 7038
Amount: 1.218941
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 7278
Amount: 1.297526
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 09-Aug-2022 01:31:14 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:50 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:43:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.964	-0.003	0.904	3198611	18.6	104	2144	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.923	4085759	20.8	104	76.3	M
3 BFS_B3									
553.00 > 345.00	4.202	4.203	-0.001	0.959	7003349	64.8	102	134	
4 BFS_A2B2									
569.00 > 229.00	4.298	4.306	-0.008	0.981	10710611	148.0	107	150	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.381	4.390	-0.009	0.877	638673	5.06	101	289	
5 BFS_A4B									
585.00 > 113.00	4.390	4.395	-0.005	1.002	2740234	11.0	100	184	
7 BFS_AB3									
619.00 > 229.00	4.566	4.569	-0.003	1.042	13833158	146.7	98.6	190	
8 BFS_A3B2									
635.00 > 113.00	4.659	4.671	-0.012	1.063	4923751	27.5	105	202	
9 BFS_B4									
669.00 > 461.00	4.804	4.807	-0.003	1.097	2066265	35.5	103	239	
10 BFS_A2B3									
685.00 > 571.00	4.907	4.915	-0.008	1.120	14370	2.63	100	127	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.001		2945364	5.00		325	

QC Flag Legend

Processing Flags

Review Flags

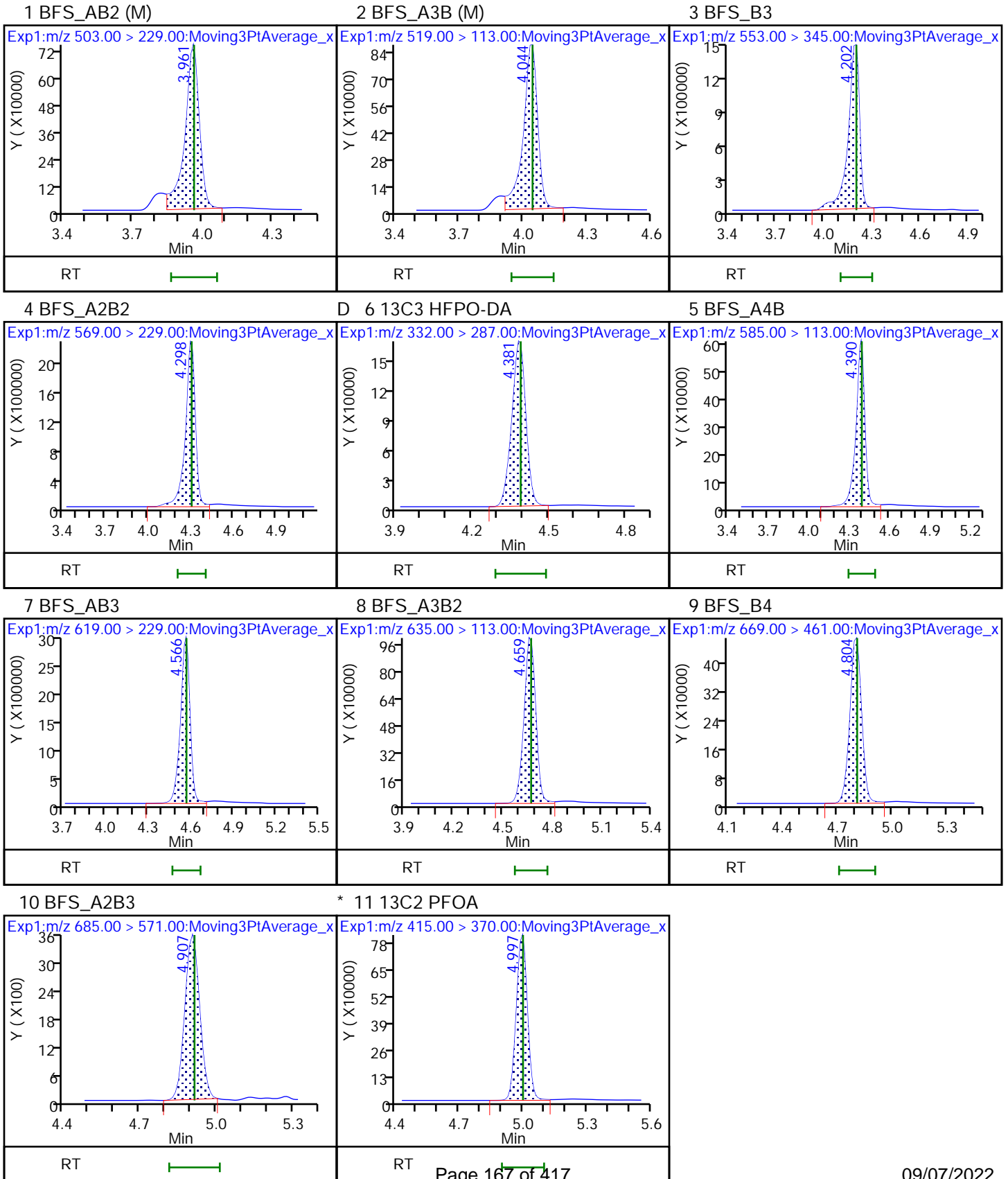
M - Manually Integrated

Reagents:

PFC_STD_BFS8_00004

Amount Added: 200.00

Units: uL



Eurofins Lancaster Laboratories Environment Testing, LLC

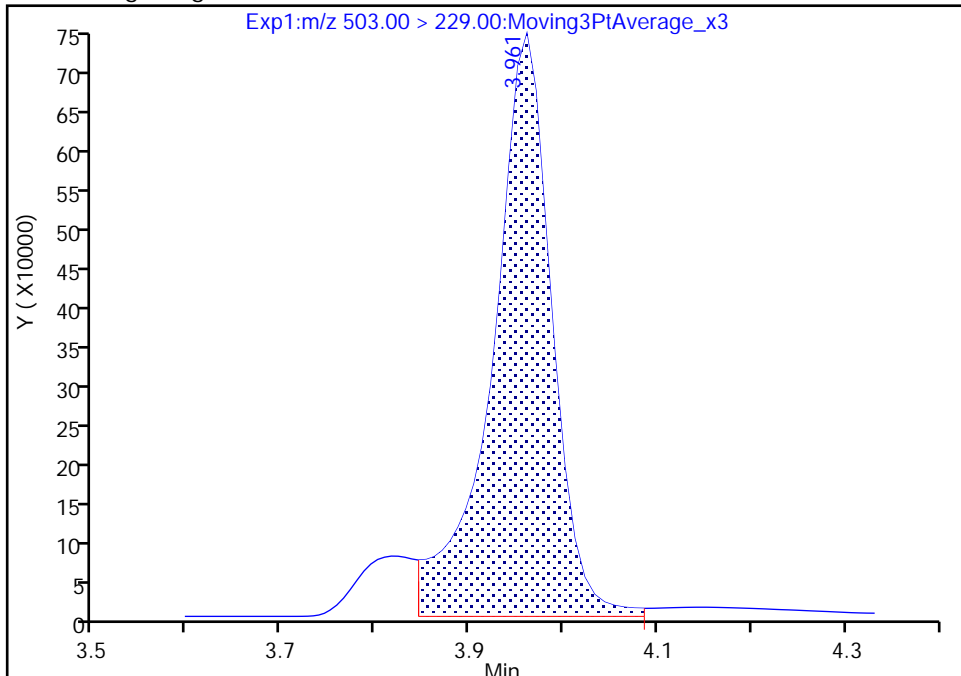
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
Injection Date: 09-Aug-2022 01:31:14 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

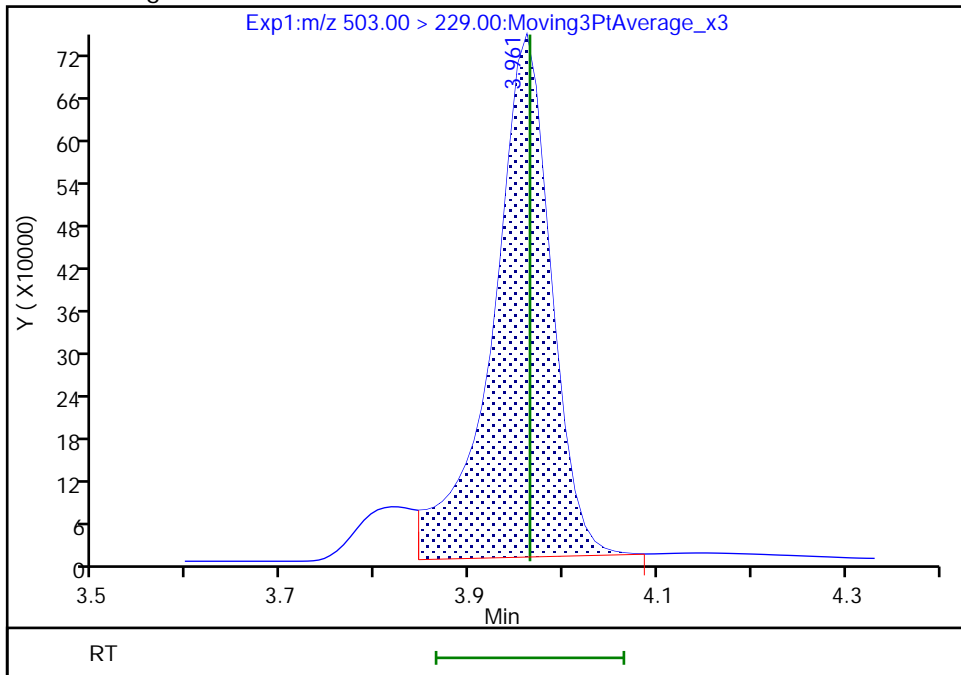
RT: 3.96
Area: 3286577
Amount: 17.598711
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 3198611
Amount: 18.572420
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:08
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

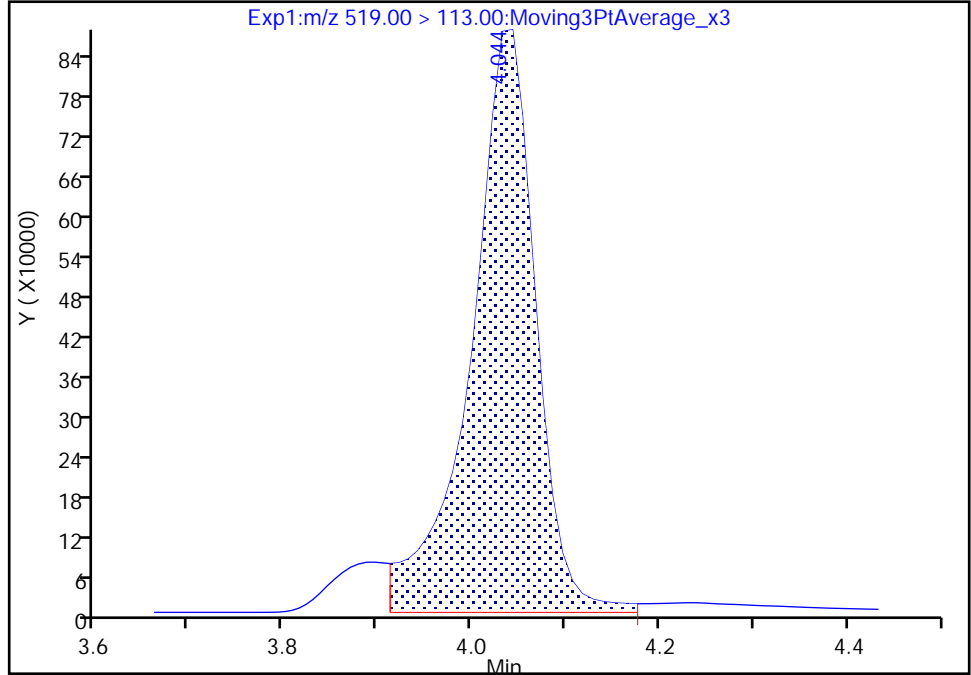
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
Injection Date: 09-Aug-2022 01:31:14 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

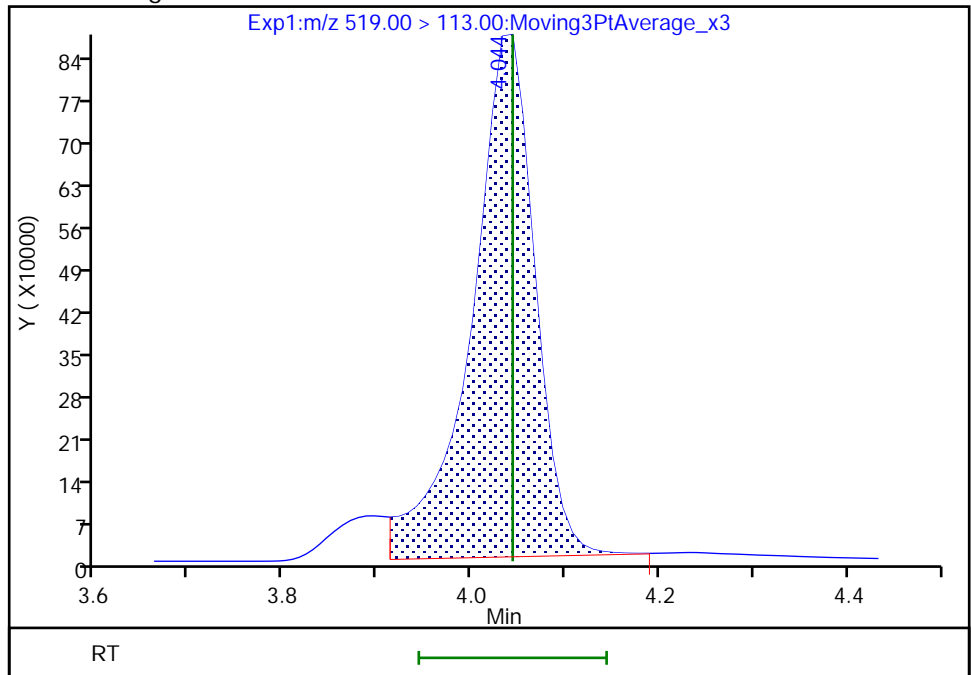
RT: 4.04
Area: 4202662
Amount: 21.098834
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 4085759
Amount: 20.795326
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 09-Aug-2022 01:43:48 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:50 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:43:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.962	3.964	-0.002	0.904	5851103	35.1	98.7	1736	M
2 BFS_A3B									M
519.00 > 113.00	4.034	4.044	-0.010	0.921	7205025	37.7	94.8	59.0	M
3 BFS_B3									M
553.00 > 345.00	4.191	4.203	-0.012	0.956	12776032	124.9	98.5	142	M
4 BFS_A2B2									M
569.00 > 229.00	4.299	4.306	-0.007	0.981	18872981	275.8	99.3	171	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.383	4.390	-0.007	0.878	603912	4.91	98.3	281	
5 BFS_A4B									M
585.00 > 113.00	4.391	4.395	-0.004	1.002	5068364	21.6	98.1	207	M
7 BFS_AB3									
619.00 > 229.00	4.567	4.569	-0.002	1.042	24793733	287.2	96.5	167	
8 BFS_A3B2									
635.00 > 113.00	4.664	4.671	-0.007	1.064	8785418	52.5	100	182	
9 BFS_B4									
669.00 > 461.00	4.797	4.807	-0.010	1.095	3844514	69.8	101	229	
10 BFS_A2B3									M
685.00 > 571.00	4.911	4.915	-0.004	1.121	28574	5.45	104	169	M
* 11 13C2 PFOA									
415.00 > 370.00	4.990	4.998	-0.008		2868292	5.00		326	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS9_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d

Injection Date: 09-Aug-2022 01:43:48

Instrument ID: 30733

Lims ID: IC CAL 9

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

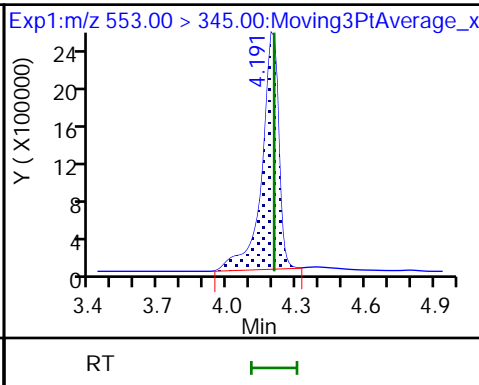
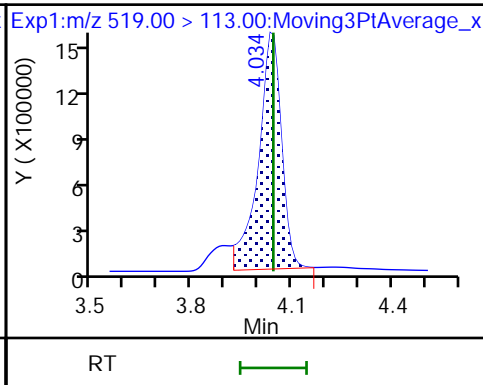
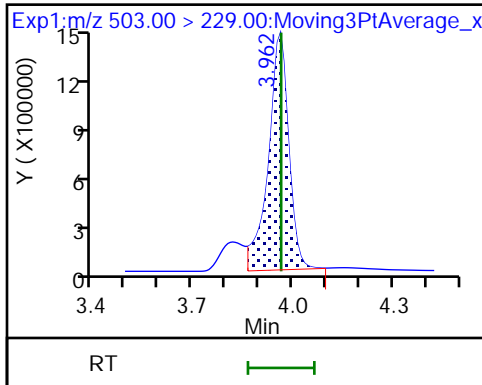
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

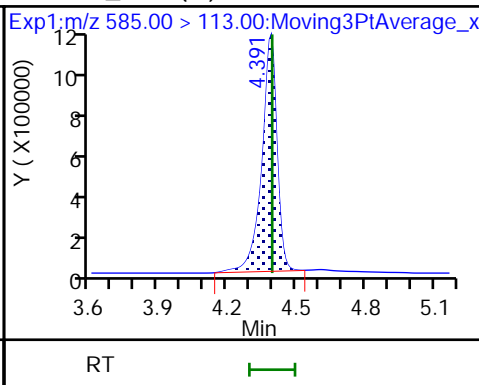
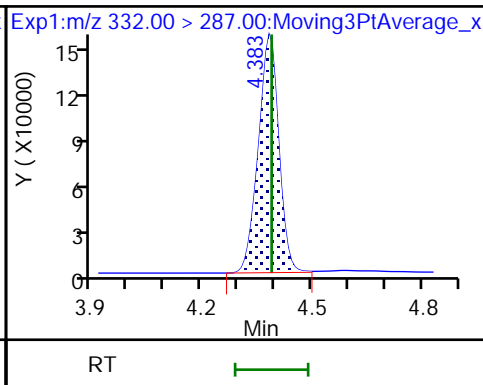
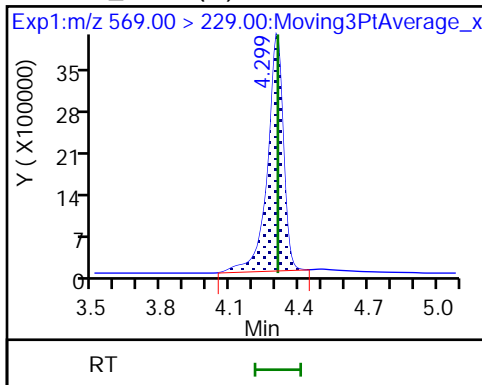
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

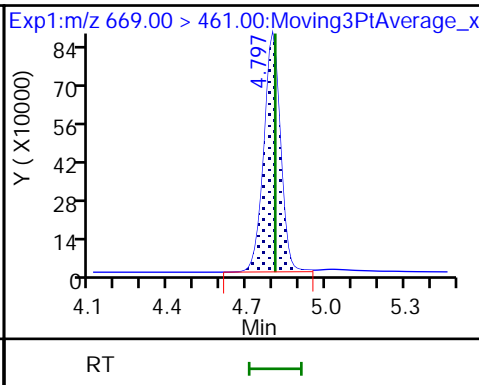
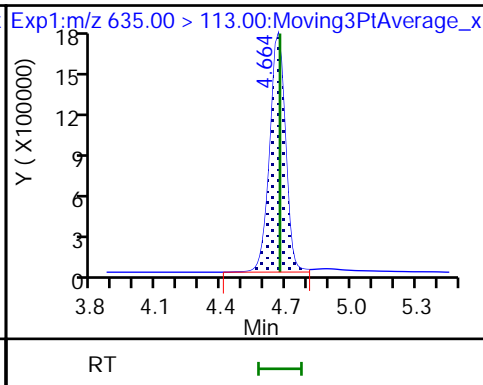
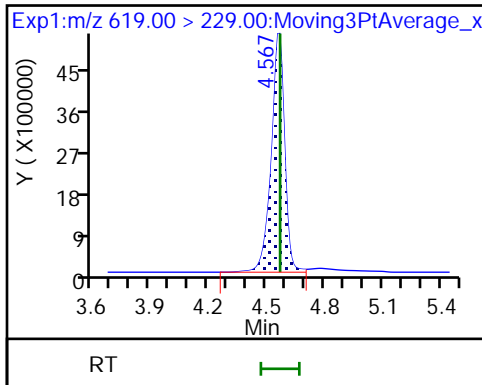
5 BFS_A4B (M)



7 BFS_AB3

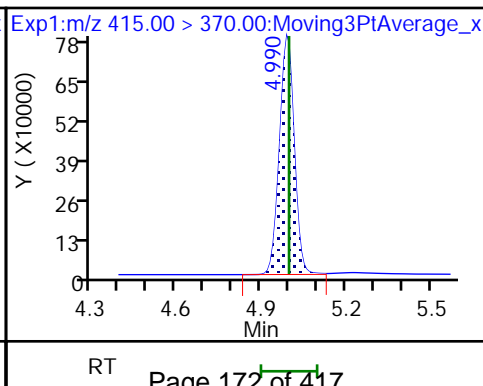
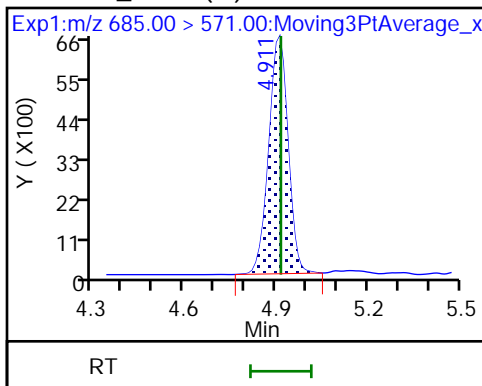
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

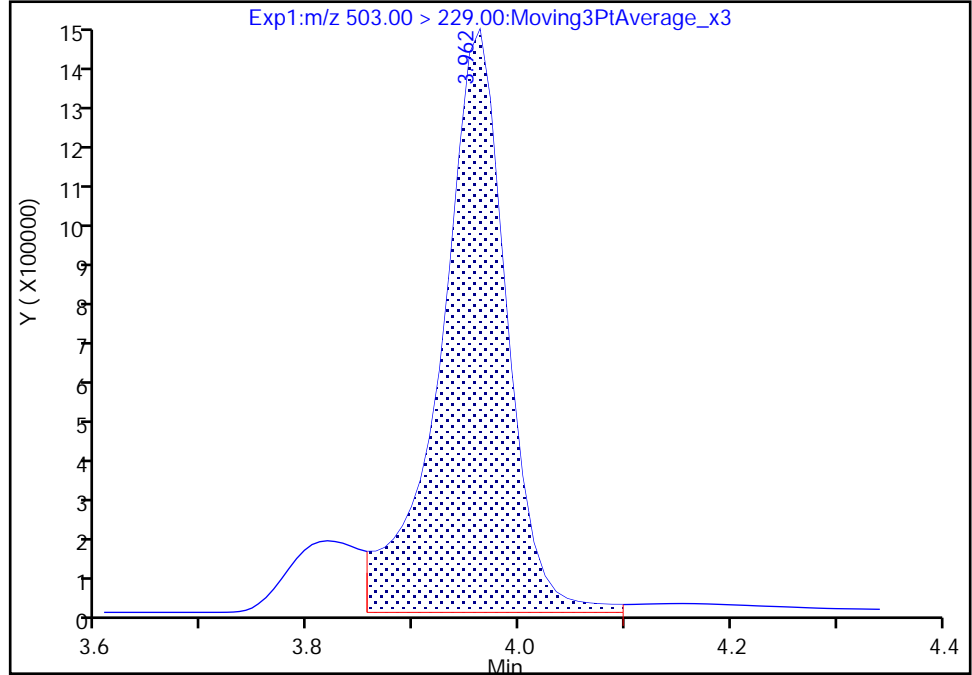
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Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

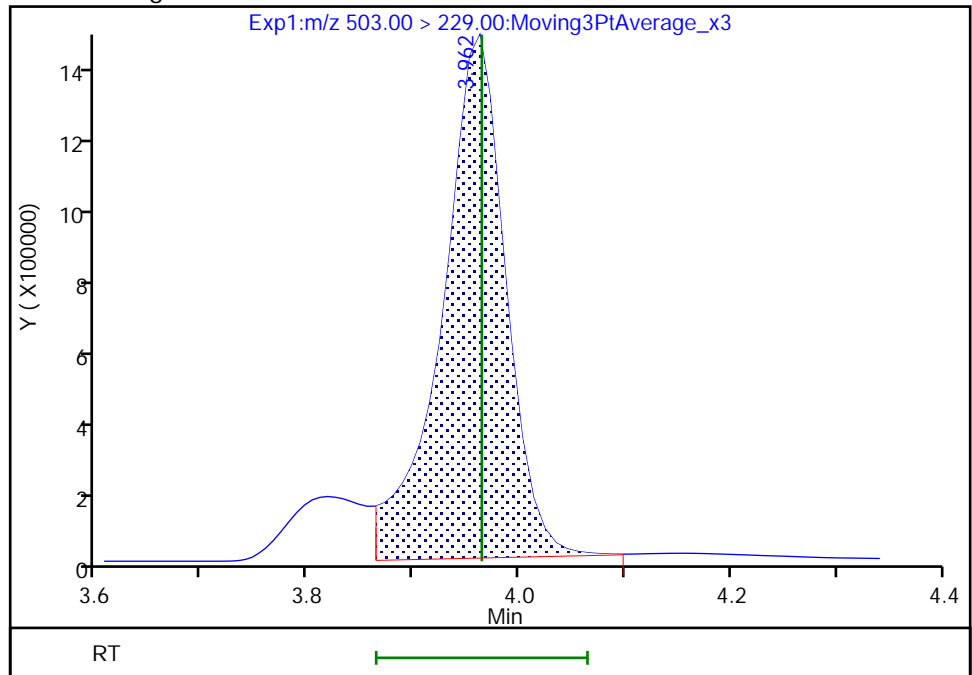
RT: 3.96
Area: 6062025
Amount: 34.409204
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 5851103
Amount: 35.145667
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:29
Audit Action: Manually Integrated

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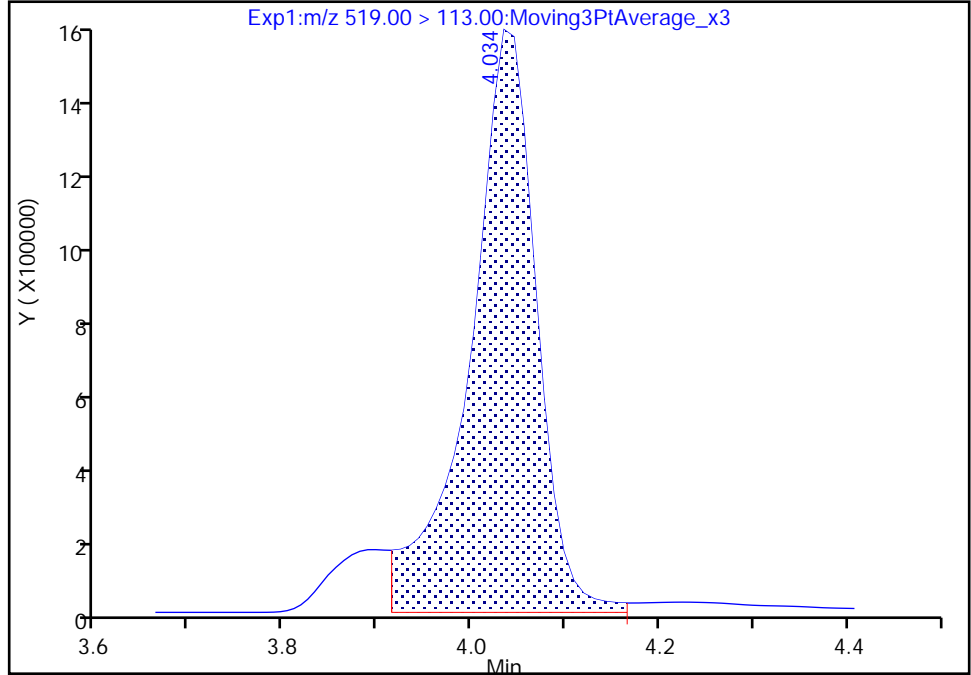
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

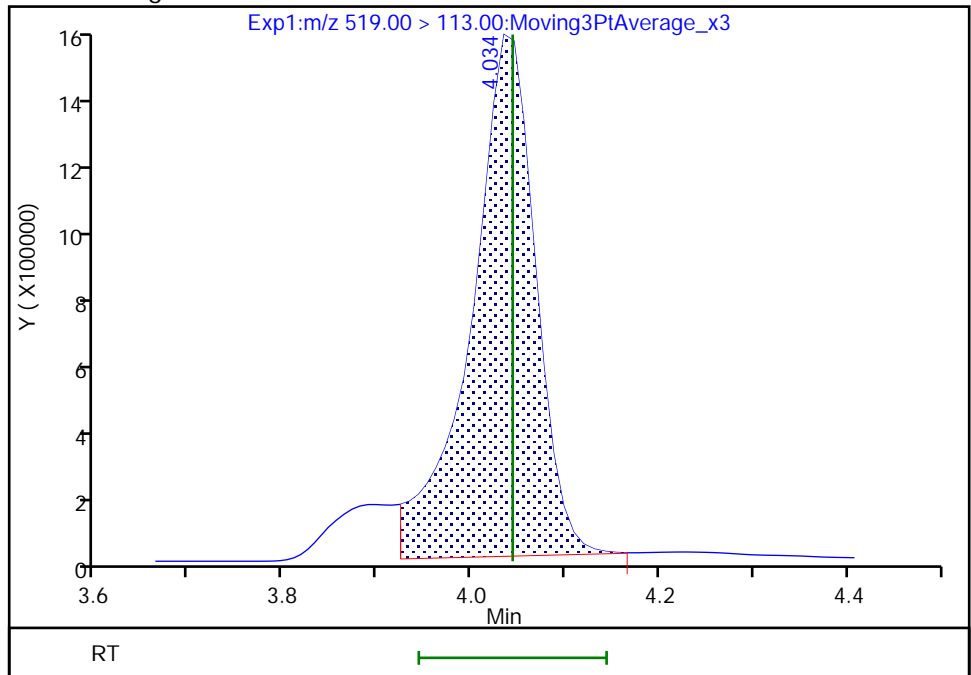
RT: 4.03
Area: 7512577
Amount: 38.624658
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 7205025
Amount: 37.730255
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:33
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

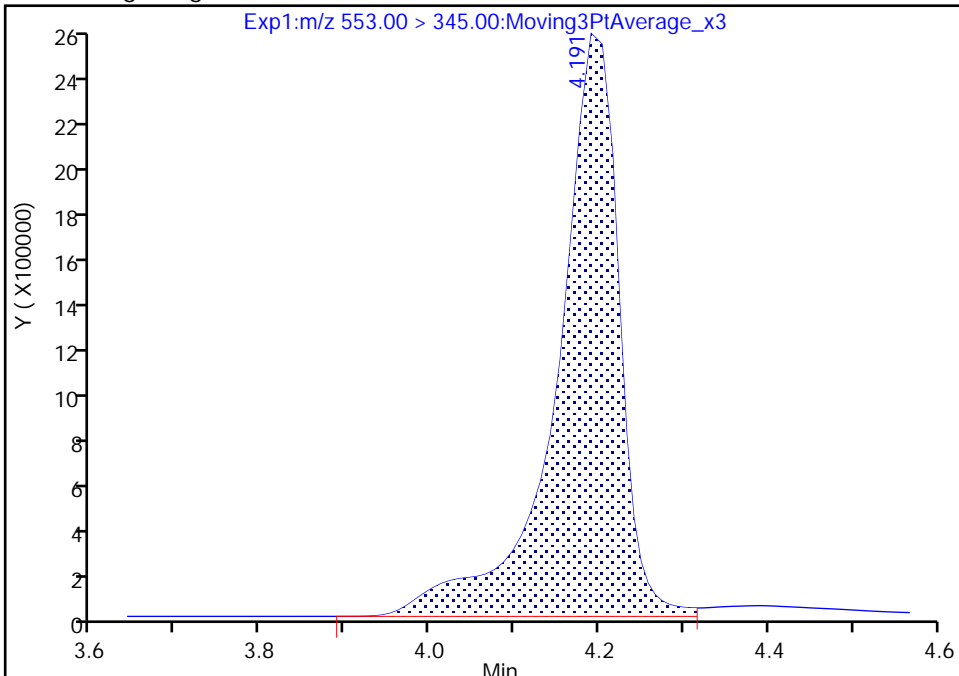
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d		
Injection Date:	09-Aug-2022 01:43:48	Instrument ID:	30733
Lims ID:	IC CAL 9		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	10
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	9

3 BFS_B3, CAS: STL02881

Signal: 1

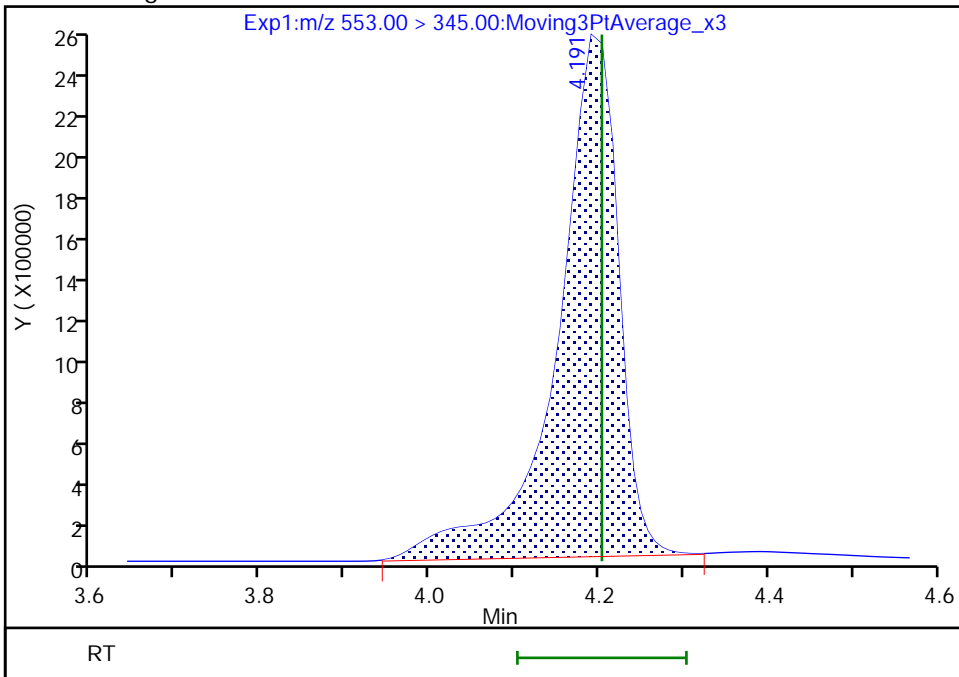
RT: 4.19
 Area: 13150745
 Amount: 125.4803
 Amount Units: ng/ml

Processing Integration Results



RT: 4.19
 Area: 12776032
 Amount: 124.9195
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:38
 Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

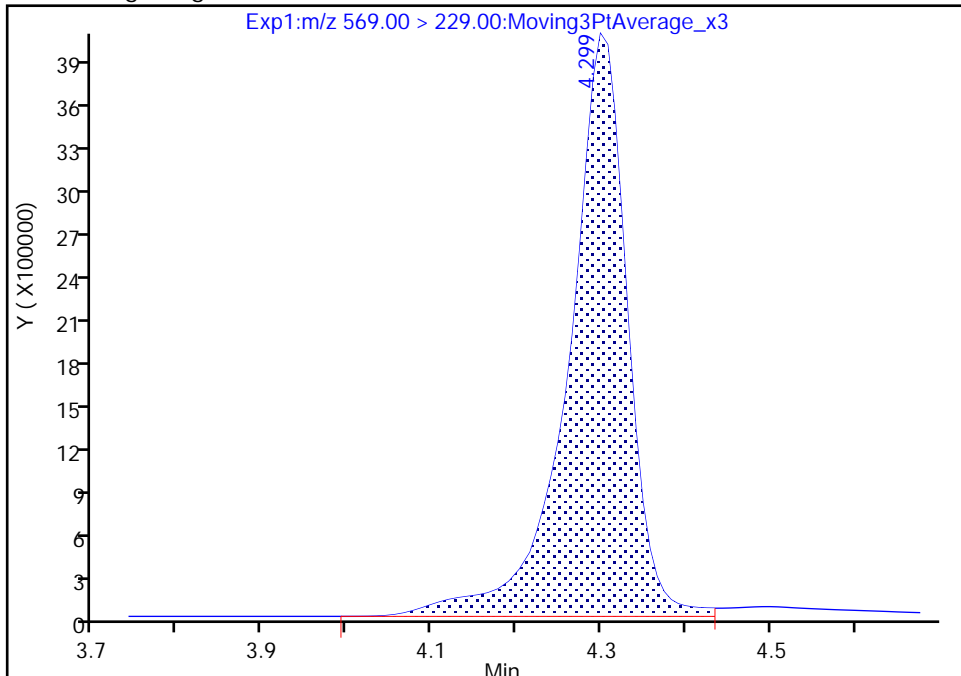
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

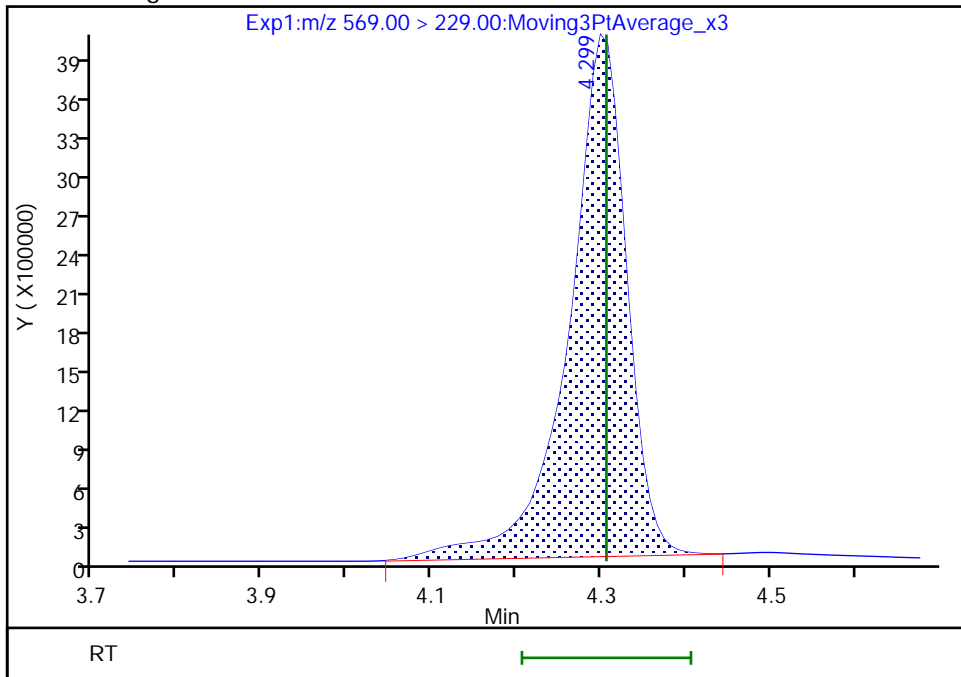
RT: 4.30
Area: 19506415
Amount: 277.3948
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 18872981
Amount: 275.7706
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:43
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

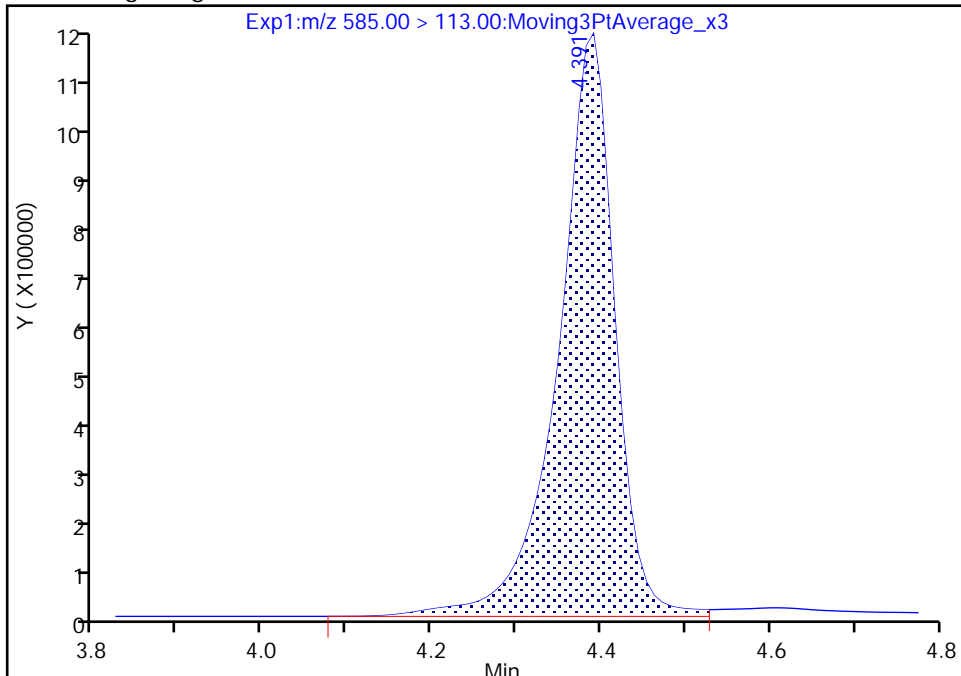
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

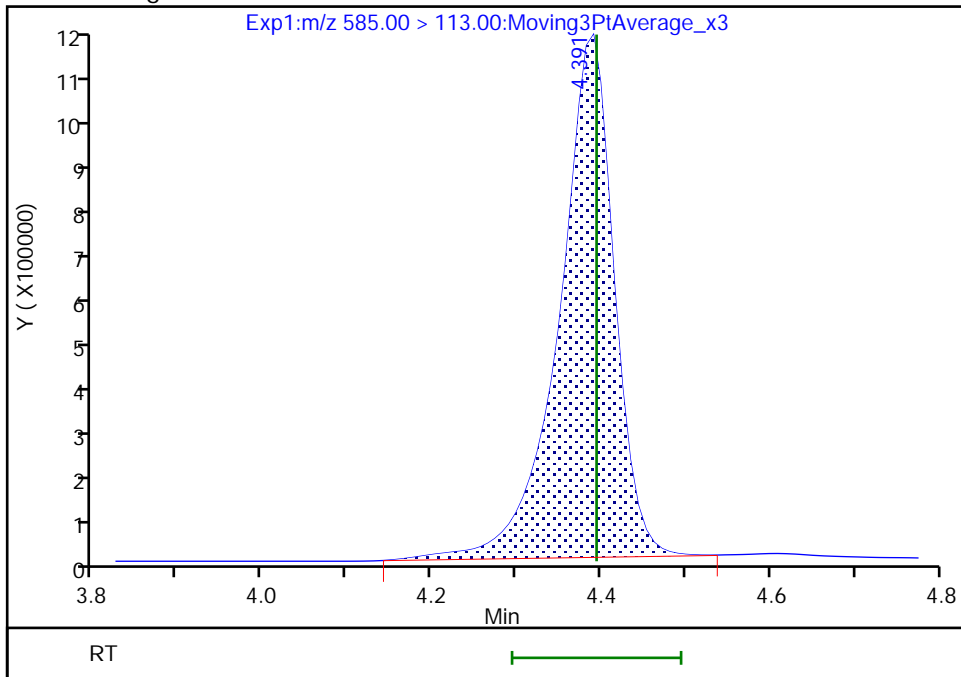
RT: 4.39
Area: 5224290
Amount: 22.088584
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 5068364
Amount: 21.575007
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:46
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

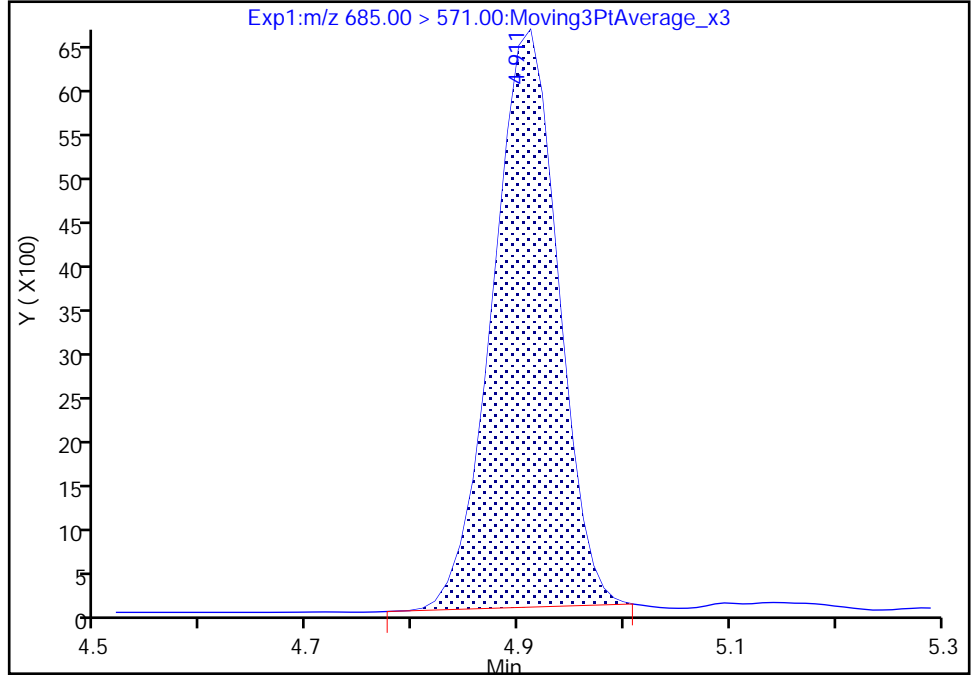
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

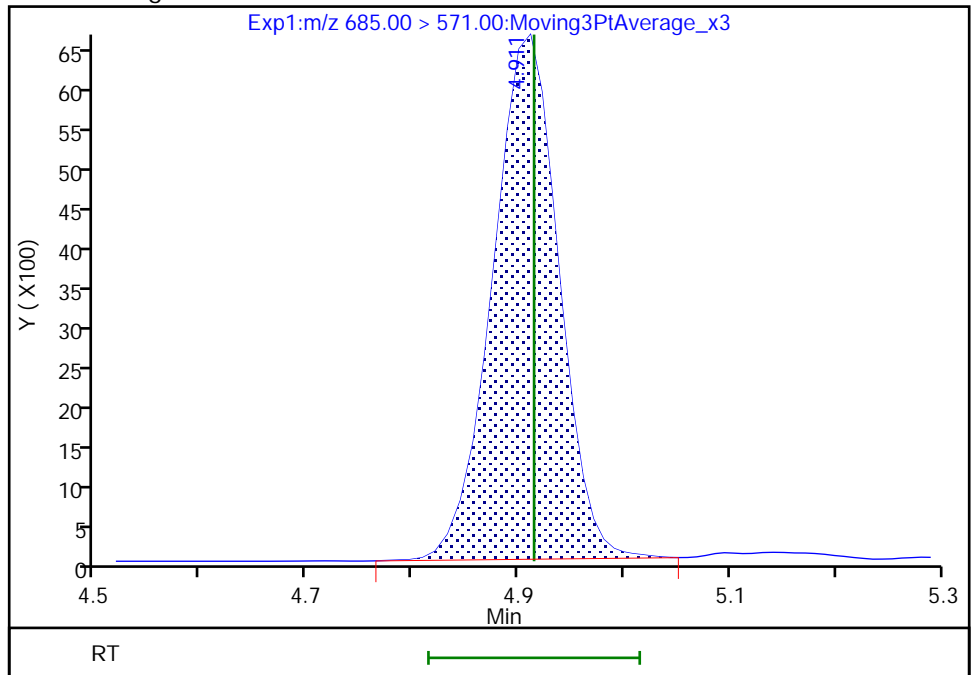
RT: 4.91
Area: 28090
Amount: 5.281686
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 28574
Amount: 5.450567
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:53
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 09-Aug-2022 01:56:25 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:52 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:44:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.964	-0.003	0.903	15424775	88.7	99.6	2300	M
2 BFS_A3B									M
519.00 > 113.00	4.042	4.044	-0.002	0.921	20573000	100.3	101	158	M
3 BFS_B3									M
553.00 > 345.00	4.201	4.203	-0.003	0.957	31759941	318.1	100	137	M
4 BFS_A2B2									M
569.00 > 229.00	4.305	4.306	-0.001	0.981	45491370	681.1	98.1	159	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.390	-0.002	0.878	589465	4.79	95.9	284	
5 BFS_A4B									
585.00 > 113.00	4.388	4.395	-0.007	1.000	12732378	55.5	101	171	
7 BFS_AB3									
619.00 > 229.00	4.564	4.569	-0.005	1.040	56956631	761.4	102	149	
8 BFS_A3B2									
635.00 > 113.00	4.671	4.671	0.0	1.065	20577614	129.9	99.2	153	
9 BFS_B4									
669.00 > 461.00	4.804	4.807	-0.003	1.095	9133524	169.8	98.2	198	
10 BFS_A2B3									
685.00 > 571.00	4.907	4.915	-0.008	1.118	68639	12.9	98.8	172	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.002		2869550	5.00		321	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Injection Date: 09-Aug-2022 01:56:25

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

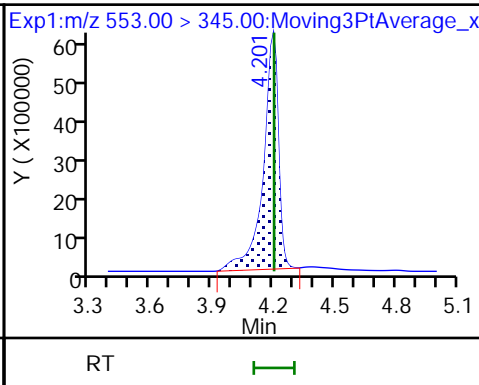
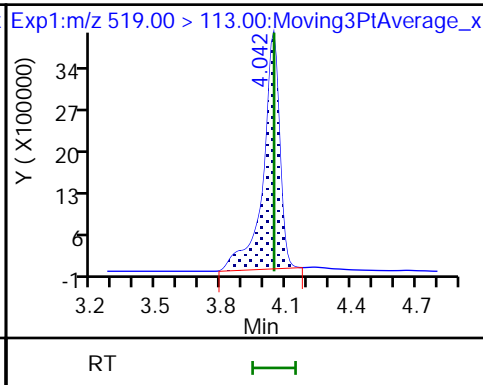
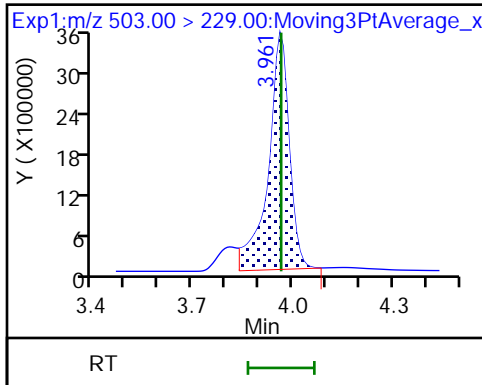
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

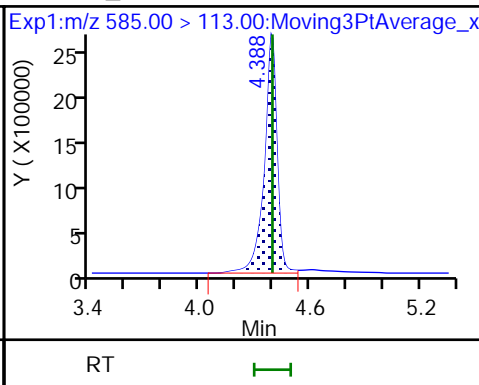
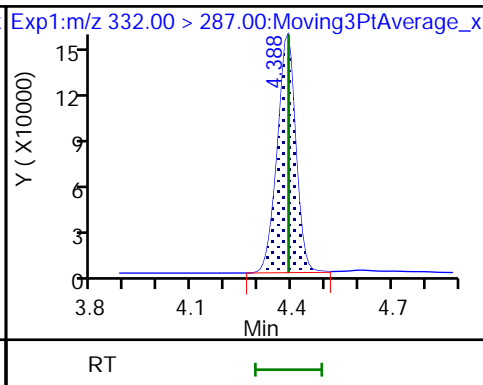
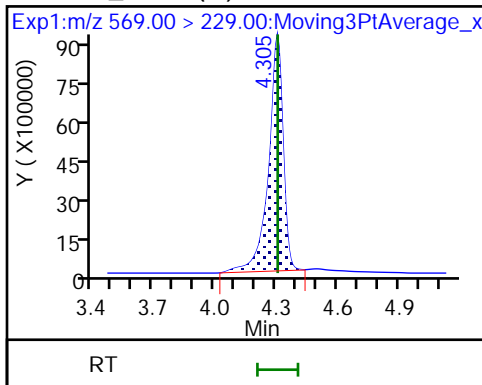
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

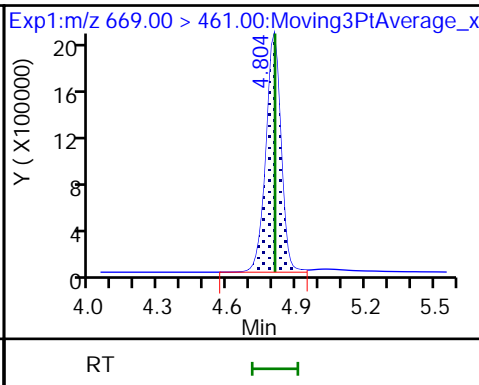
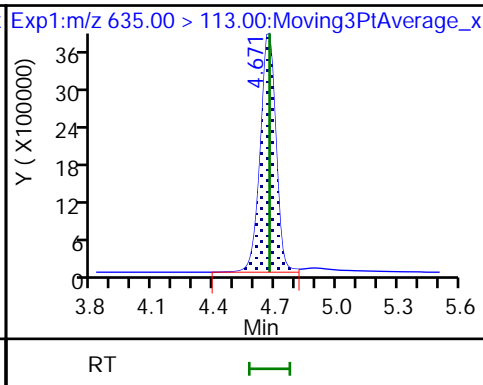
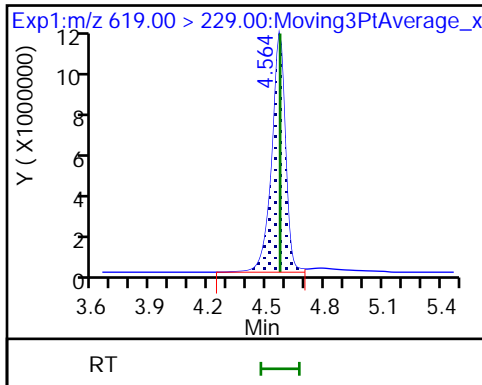
5 BFS_A4B



7 BFS_AB3

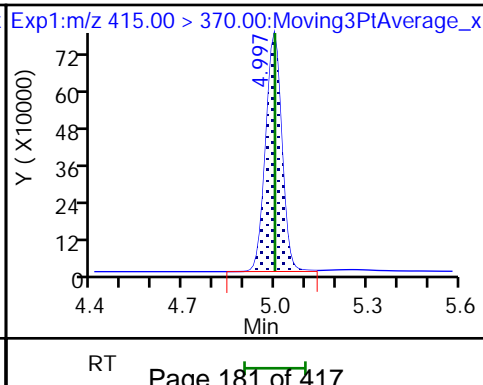
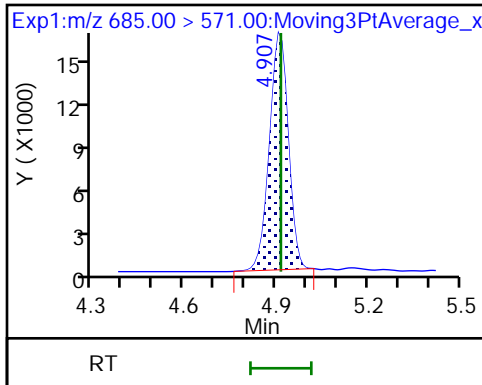
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



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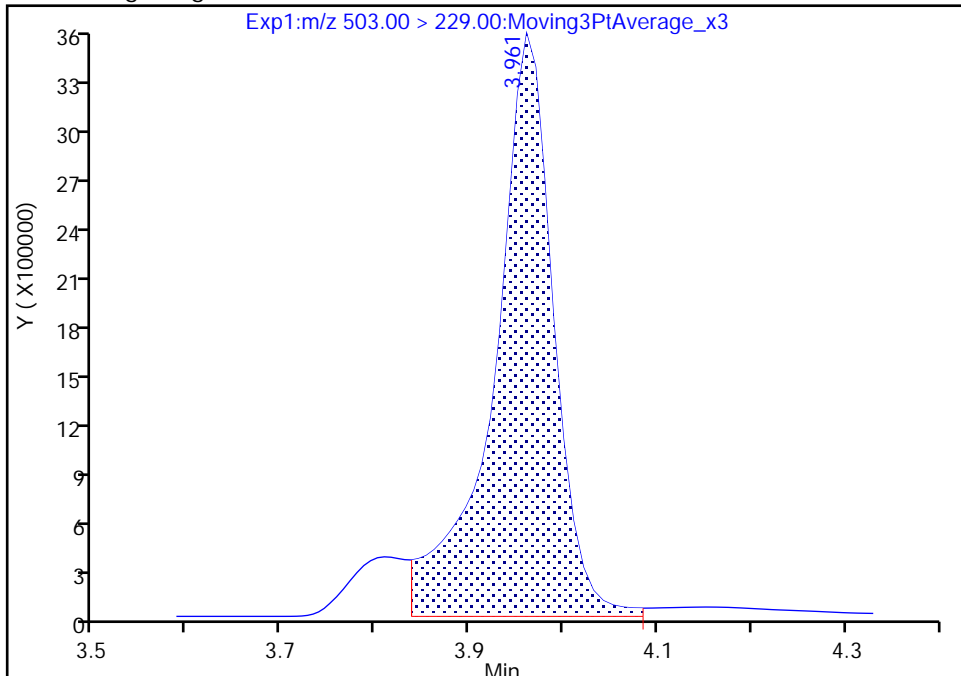
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

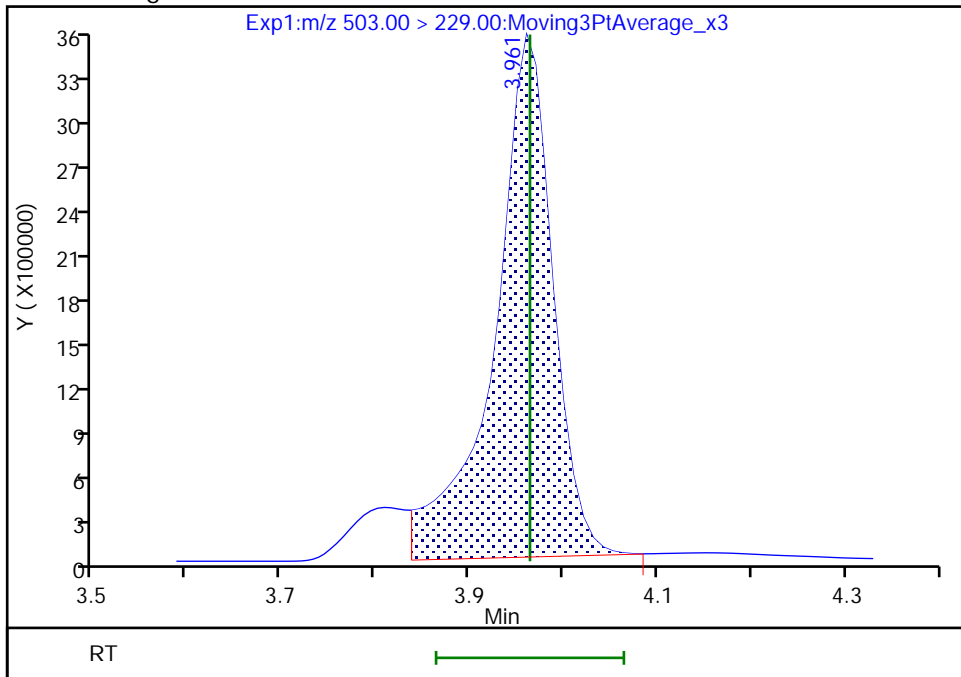
RT: 3.96
Area: 15843921
Amount: 92.803173
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 15424775
Amount: 88.683250
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:07
Audit Action: Manually Integrated

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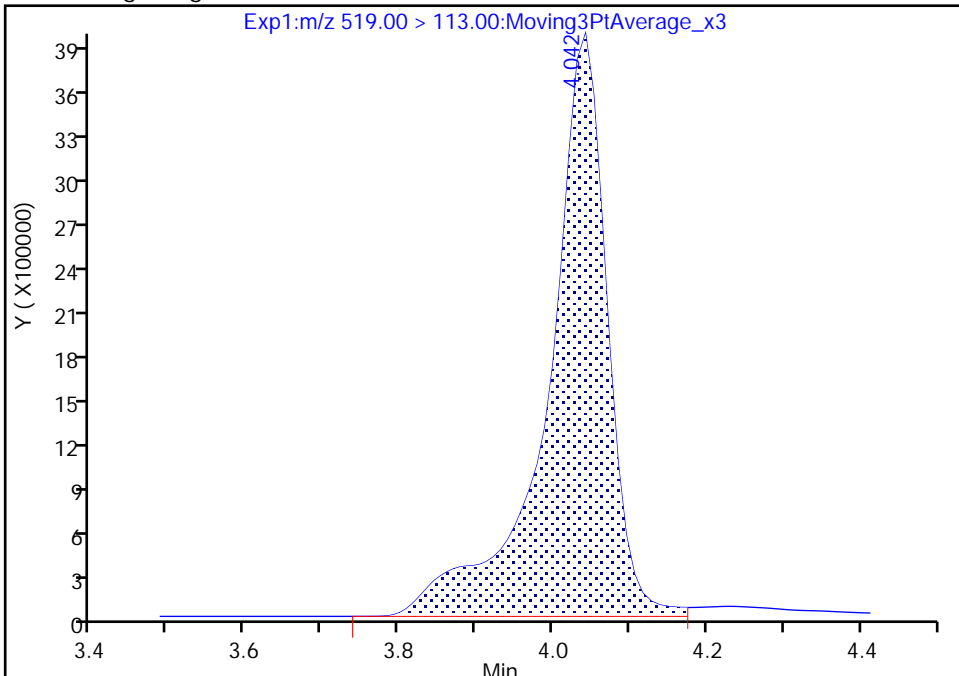
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

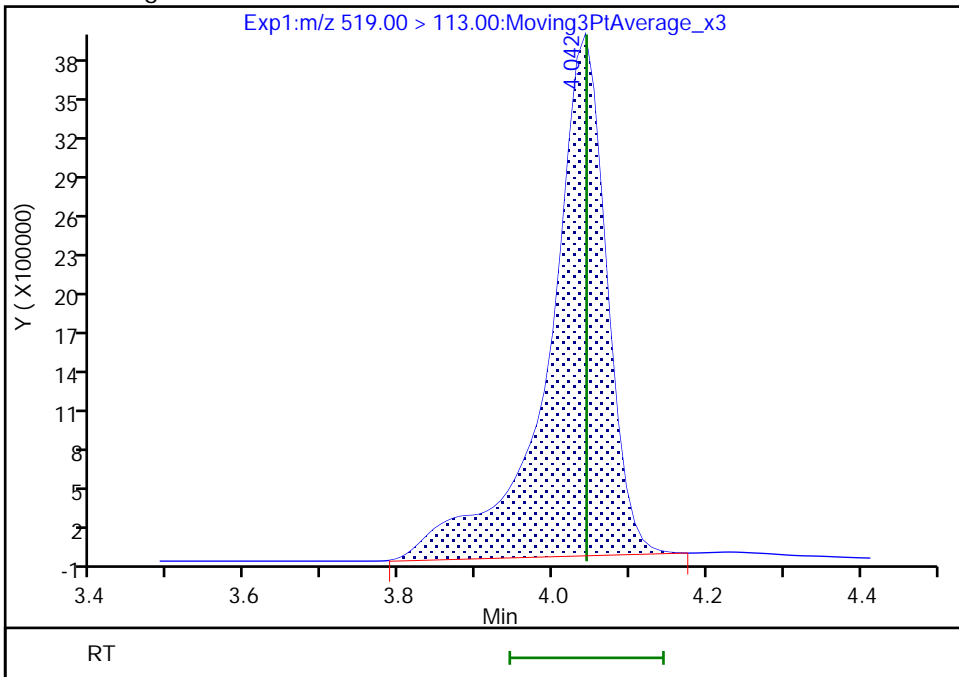
RT: 4.04
Area: 21269447
Amount: 100.6733
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 20573000
Amount: 100.3379
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:12
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

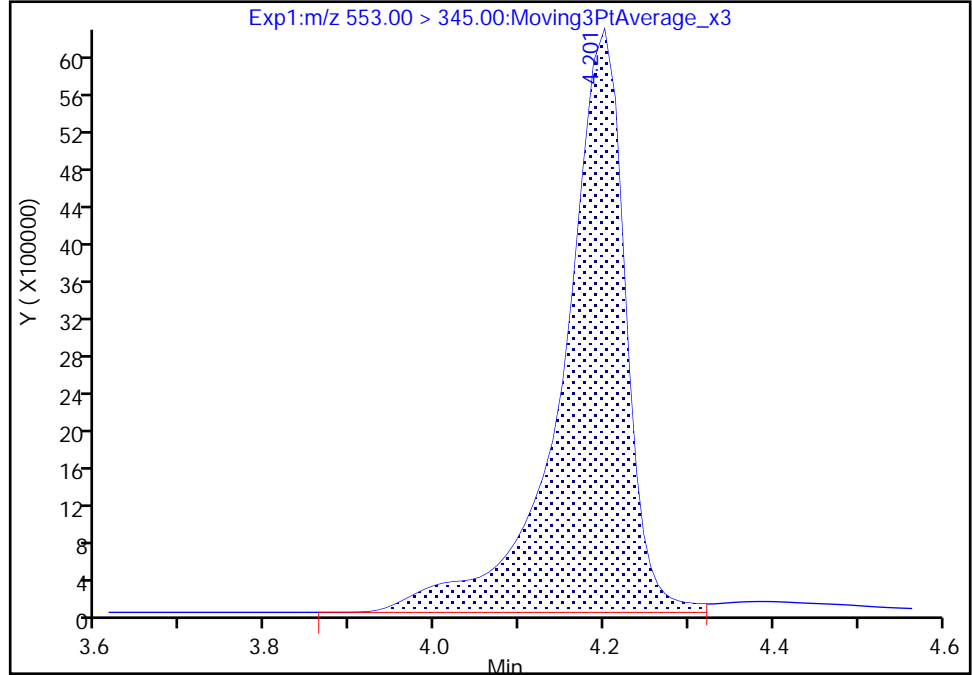
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

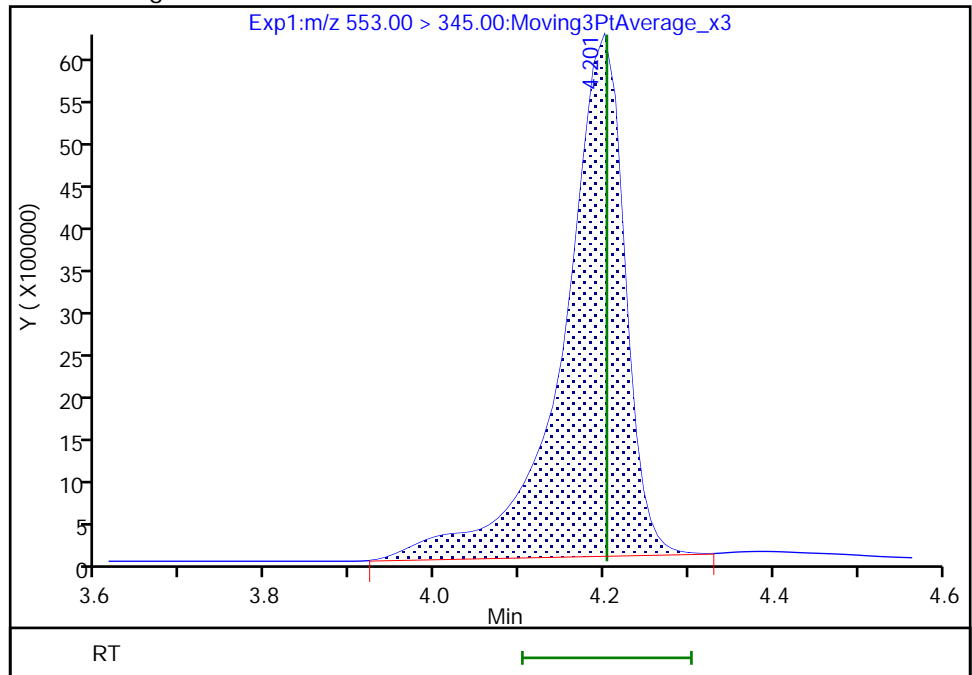
RT: 4.20
Area: 32781085
Amount: 322.4278
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 31759941
Amount: 318.0986
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:15
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

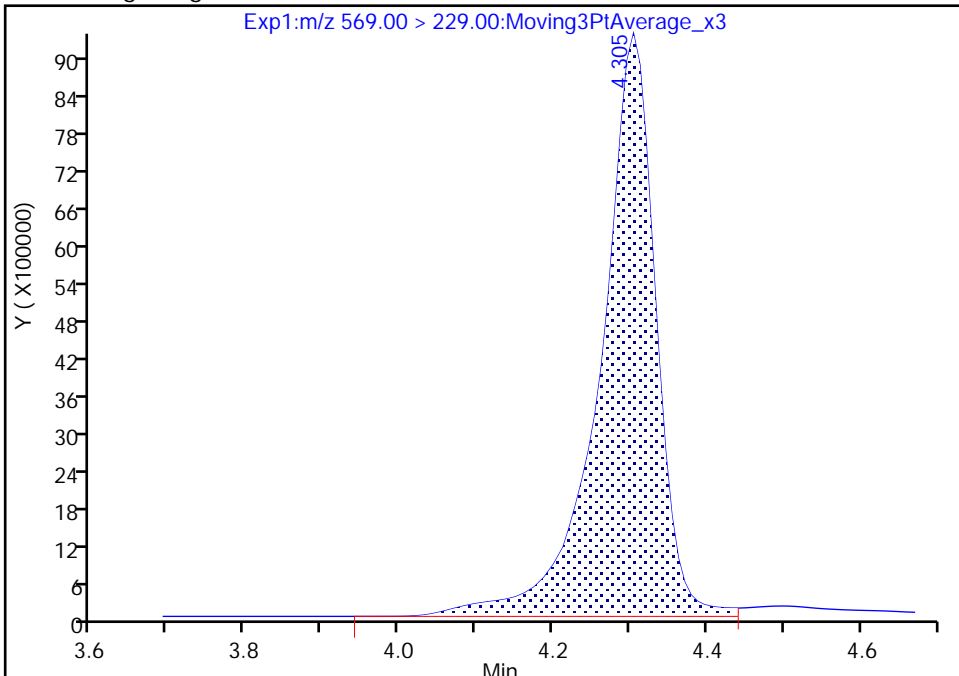
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

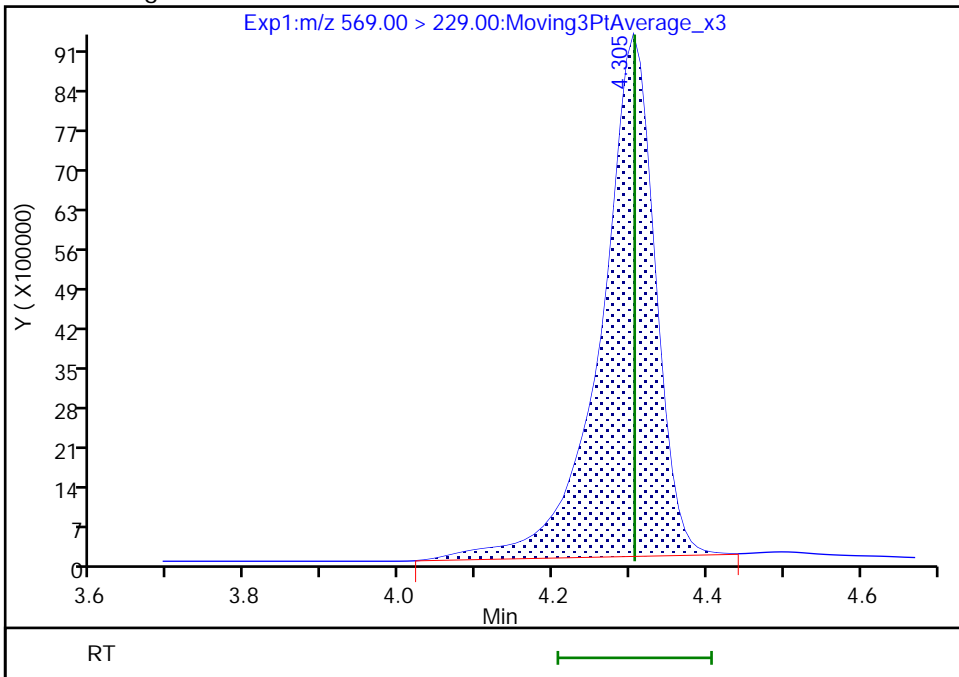
RT: 4.30
Area: 47134382
Amount: 691.7912
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 45491370
Amount: 681.0877
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:19
Audit Action: Manually Integrated

Calibration

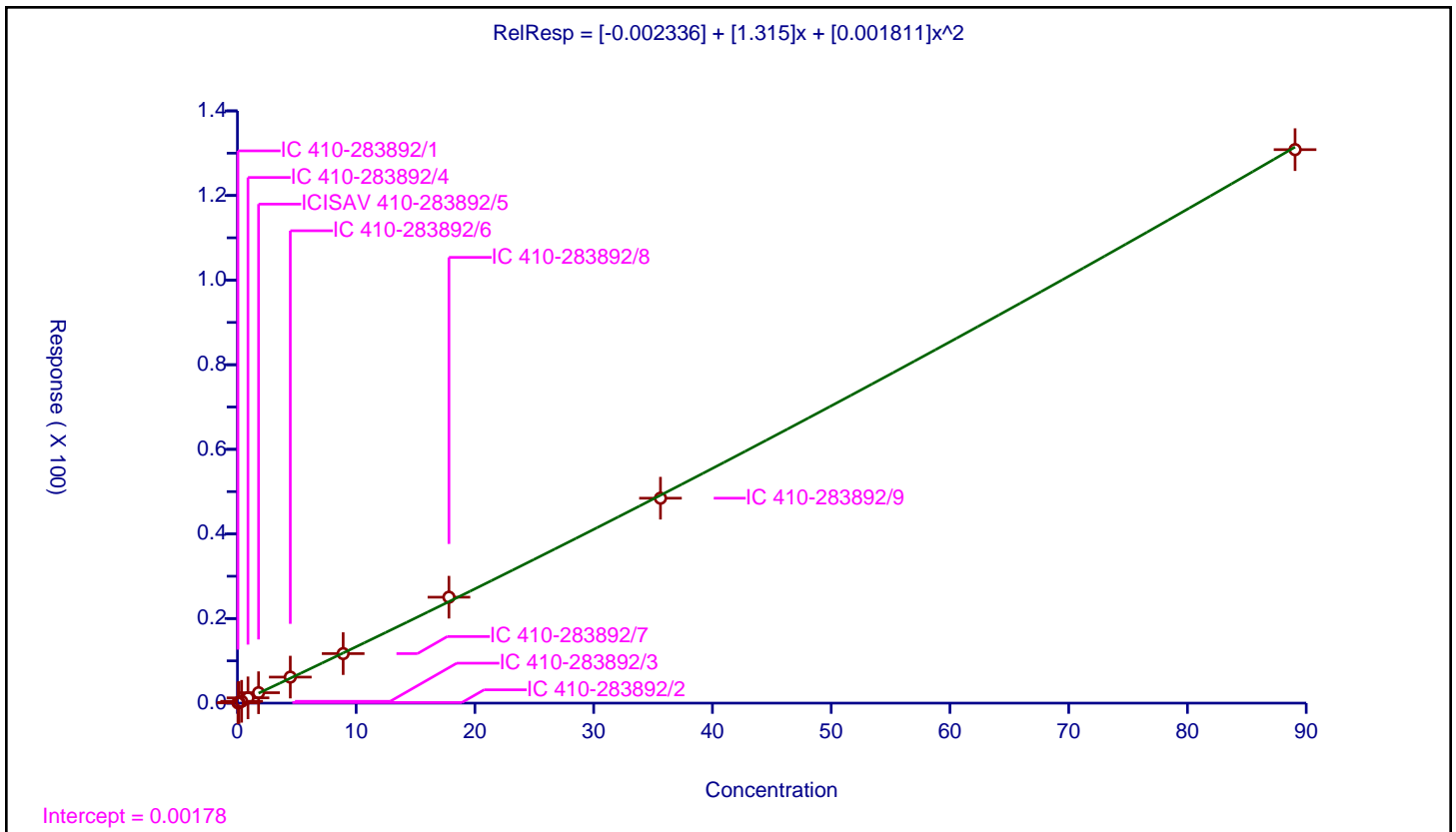
/ BFS_AB2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.002336
Slope:	1.315
Second Order:	0.001811

Error Coefficients	
Standard Error:	6390000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.044531	0.059691	5.0	654204.0	1.340434	Y
2	IC 410-283892/2	0.133593	0.143879	5.0	691937.0	1.076993	Y
3	IC 410-283892/3	0.356248	0.434049	5.0	682883.0	1.218391	Y
4	IC 410-283892/4	0.89062	1.250344	5.0	675382.0	1.403903	Y
5	ICISAV 410-283892/5	1.78124	2.464896	5.0	663036.0	1.383809	Y
6	IC 410-283892/6	4.4531	6.153505	5.0	637015.0	1.381847	Y
7	IC 410-283892/7	8.9062	11.706375	5.0	656951.0	1.314407	Y
8	IC 410-283892/8	17.8124	25.04107	5.0	638673.0	1.405822	Y
9	IC 410-283892/9	35.6248	48.443341	5.0	603912.0	1.359821	Y
10	IC 410-283892/10	89.062	130.837073	5.0	589465.0	1.469056	Y



Calibration

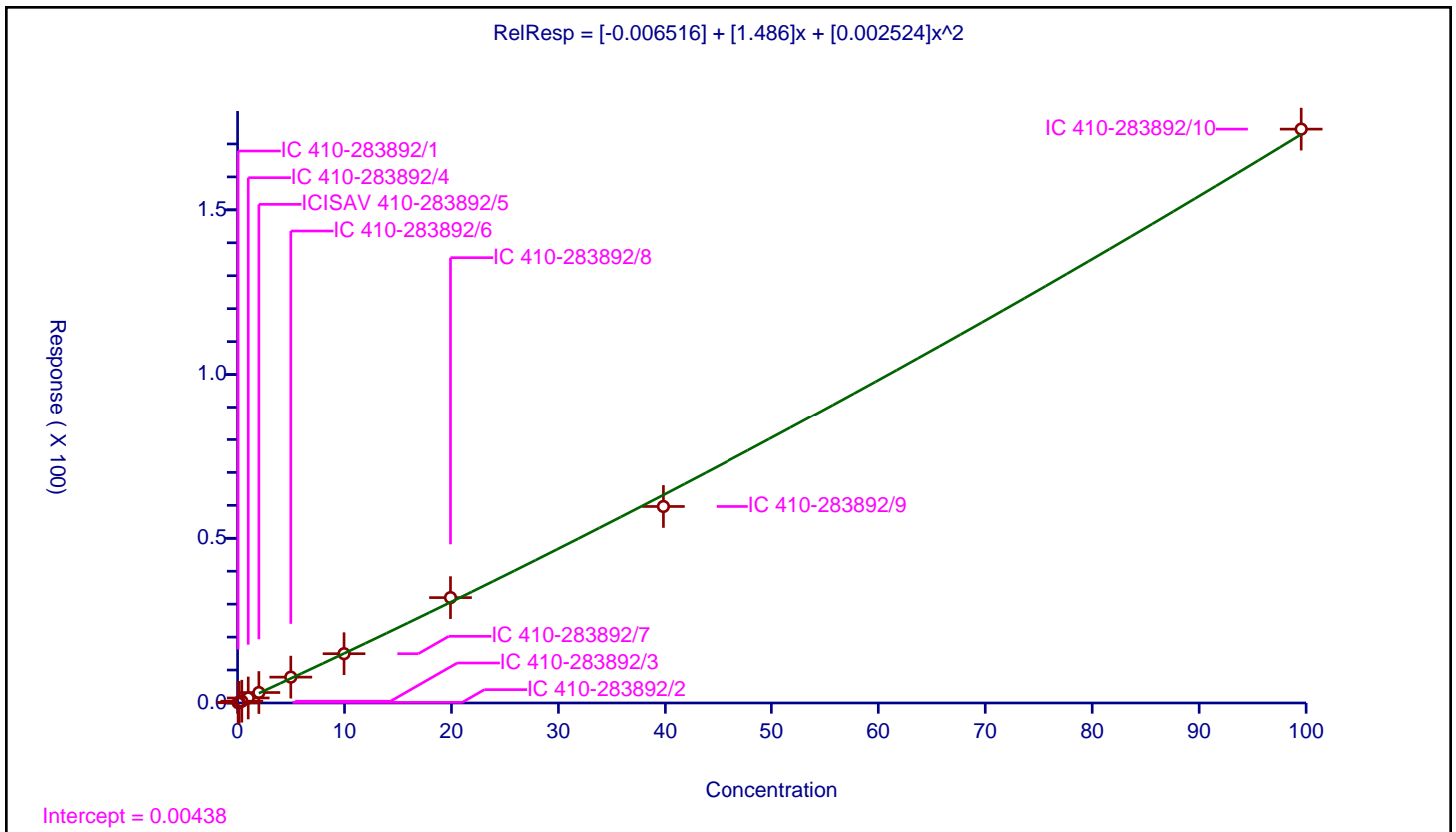
/ BFS_A3B

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006516
Slope:	1.486
Second Order:	0.002524

Error Coefficients	
Standard Error:	8430000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.04977	0.070712	5.0	654204.0	1.42078	Y
2	IC 410-283892/2	0.149309	0.190321	5.0	691937.0	1.274675	Y
3	IC 410-283892/3	0.398158	0.535751	5.0	682883.0	1.345573	Y
4	IC 410-283892/4	0.995395	1.525833	5.0	675382.0	1.532892	Y
5	ICISAV 410-283892/5	1.99079	3.173817	5.0	663036.0	1.59425	Y
6	IC 410-283892/6	4.976975	7.844234	5.0	637015.0	1.576105	Y
7	IC 410-283892/7	9.95395	14.959282	5.0	656951.0	1.502849	Y
8	IC 410-283892/8	19.9079	31.986314	5.0	638673.0	1.606715	Y
9	IC 410-283892/9	39.8158	59.652938	5.0	603912.0	1.498223	Y
10	IC 410-283892/10	99.5395	174.505696	5.0	589465.0	1.75313	Y



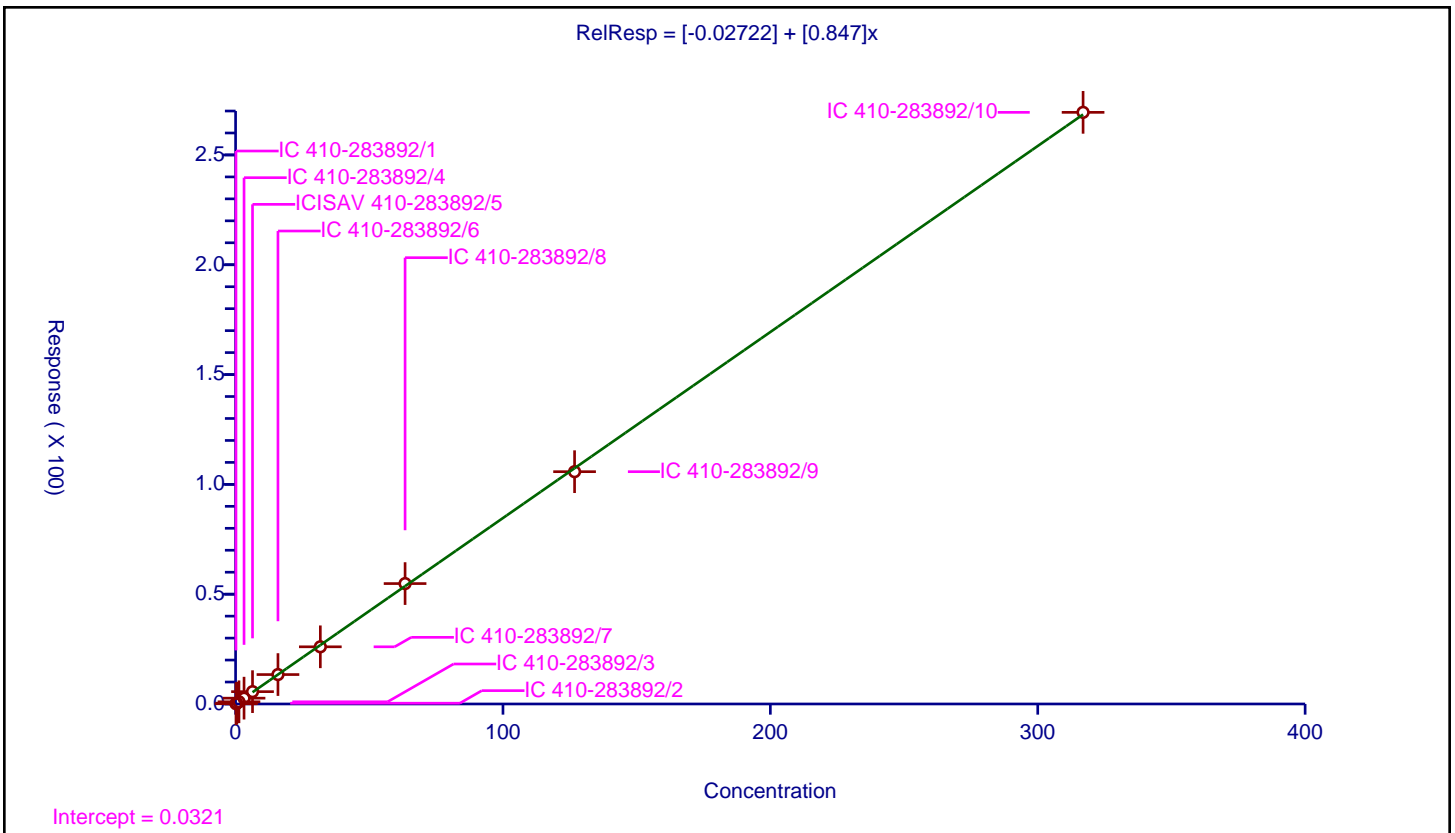
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02722
Slope:	0.847

Error Coefficients	
Standard Error:	12400000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.158478	0.113718	5.0	654204.0	0.717567	Y
2	IC 410-283892/2	0.475433	0.356904	5.0	691937.0	0.750692	Y
3	IC 410-283892/3	1.267822	1.007523	5.0	682883.0	0.794688	Y
4	IC 410-283892/4	3.169555	2.658103	5.0	675382.0	0.838636	Y
5	ICISAV 410-283892/5	6.33911	5.610902	5.0	663036.0	0.885125	Y
6	IC 410-283892/6	15.847775	13.403217	5.0	637015.0	0.845748	Y
7	IC 410-283892/7	31.69555	26.03781	5.0	656951.0	0.821497	Y
8	IC 410-283892/8	63.3911	54.827345	5.0	638673.0	0.864906	Y
9	IC 410-283892/9	126.7822	105.777266	5.0	603912.0	0.834323	Y
10	IC 410-283892/10	316.9555	269.396325	5.0	589465.0	0.84995	Y



Calibration

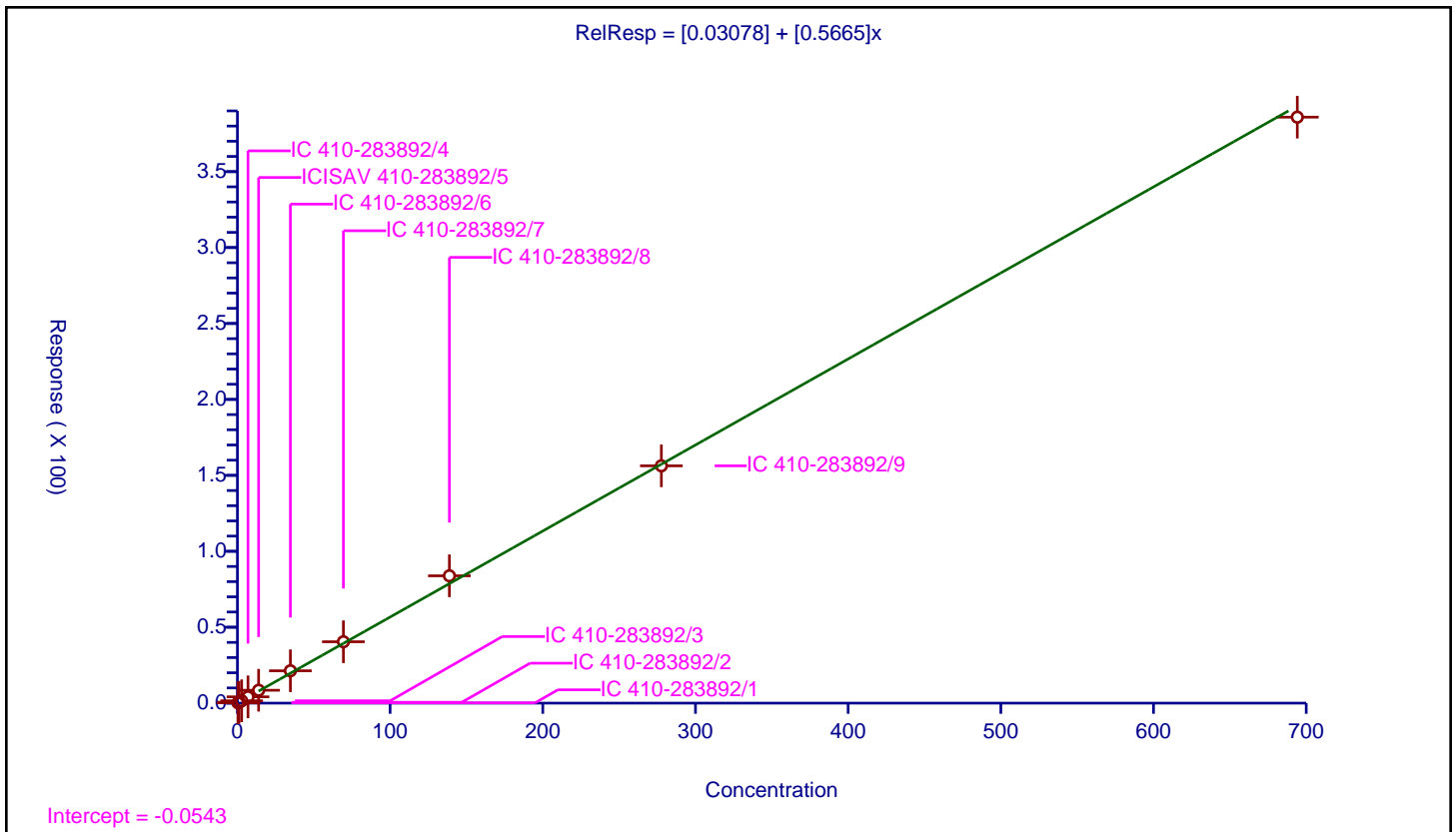
/ BFS_A2B2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.03078
Slope:	0.5665

Error Coefficients	
Standard Error:	17900000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.347079	0.198004	5.0	654204.0	0.570486	Y
2	IC 410-283892/2	1.041238	0.568455	5.0	691937.0	0.545942	Y
3	IC 410-283892/3	2.776634	1.550478	5.0	682883.0	0.558402	Y
4	IC 410-283892/4	6.941585	4.15644	5.0	675382.0	0.598774	Y
5	ICISAV 410-283892/5	13.88317	8.477043	5.0	663036.0	0.610599	Y
6	IC 410-283892/6	34.707925	21.302834	5.0	637015.0	0.613774	Y
7	IC 410-283892/7	69.41585	40.411629	5.0	656951.0	0.582167	Y
8	IC 410-283892/8	138.8317	83.850507	5.0	638673.0	0.603972	Y
9	IC 410-283892/9	277.6634	156.256052	5.0	603912.0	0.562754	Y
10	IC 410-283892/10	694.1585	385.869984	5.0	589465.0	0.555882	Y



Calibration

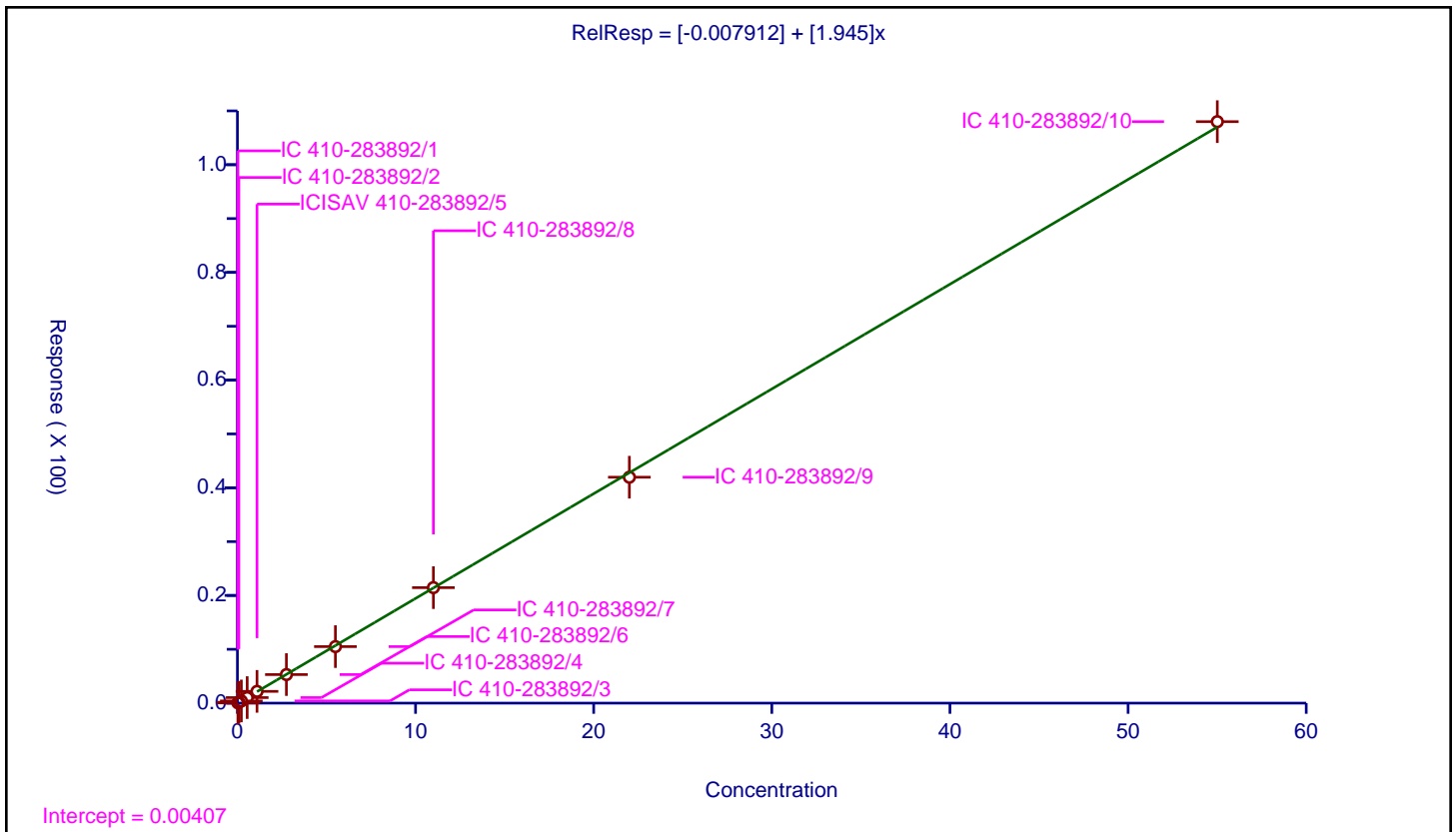
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Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.007912
Slope:	1.945

Error Coefficients	
Standard Error:	4970000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.027505	0.048502	5.0	654204.0	1.763409	Y
2	IC 410-283892/2	0.082514	0.155693	5.0	691937.0	1.886884	Y
3	IC 410-283892/3	0.220036	0.405282	5.0	682883.0	1.841888	Y
4	IC 410-283892/4	0.55009	1.02958	5.0	675382.0	1.871658	Y
5	ICISAV 410-283892/5	1.10018	2.183547	5.0	663036.0	1.984718	Y
6	IC 410-283892/6	2.75045	5.306445	5.0	637015.0	1.929301	Y
7	IC 410-283892/7	5.5009	10.498888	5.0	656951.0	1.908576	Y
8	IC 410-283892/8	11.0018	21.452559	5.0	638673.0	1.949914	Y
9	IC 410-283892/9	22.0036	41.962769	5.0	603912.0	1.907087	Y
10	IC 410-283892/10	55.009	107.99944	5.0	589465.0	1.963305	Y



Calibration

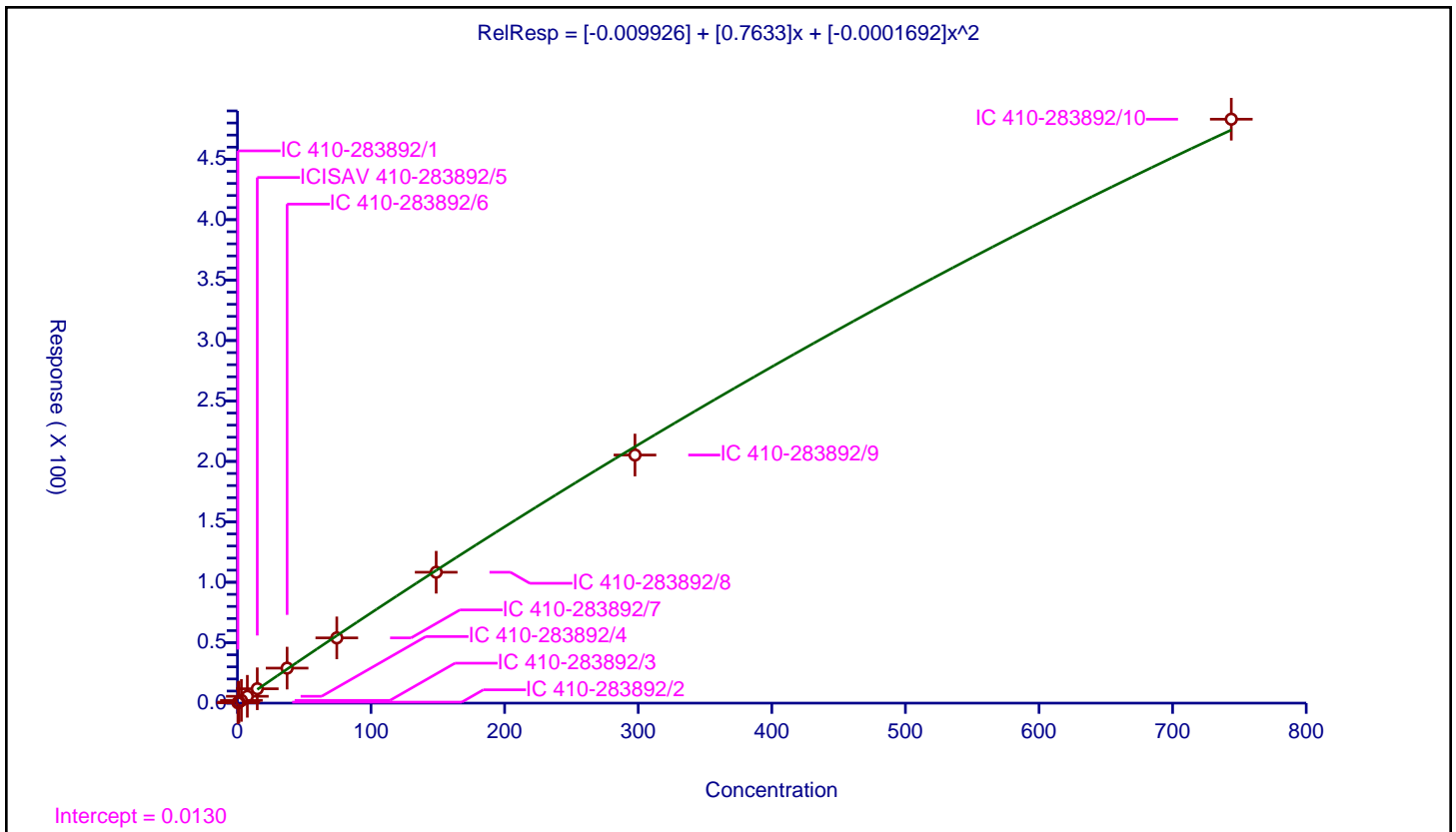
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Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.009926
Slope:	0.7633
Second Order:	-0.0001692

Error Coefficients	
Standard Error:	24300000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.371964	0.275694	5.0	654204.0	0.741184	Y
2	IC 410-283892/2	1.115893	0.824042	5.0	691937.0	0.73846	Y
3	IC 410-283892/3	2.975714	2.251213	5.0	682883.0	0.756529	Y
4	IC 410-283892/4	7.439285	5.65896	5.0	675382.0	0.760686	Y
5	ICISAV 410-283892/5	14.87857	11.885056	5.0	663036.0	0.798804	Y
6	IC 410-283892/6	37.196425	28.960974	5.0	637015.0	0.778596	Y
7	IC 410-283892/7	74.39285	53.979741	5.0	656951.0	0.725604	Y
8	IC 410-283892/8	148.7857	108.296092	5.0	638673.0	0.727866	Y
9	IC 410-283892/9	297.5714	205.276042	5.0	603912.0	0.689838	Y
10	IC 410-283892/10	743.9285	483.121398	5.0	589465.0	0.649419	Y



Calibration

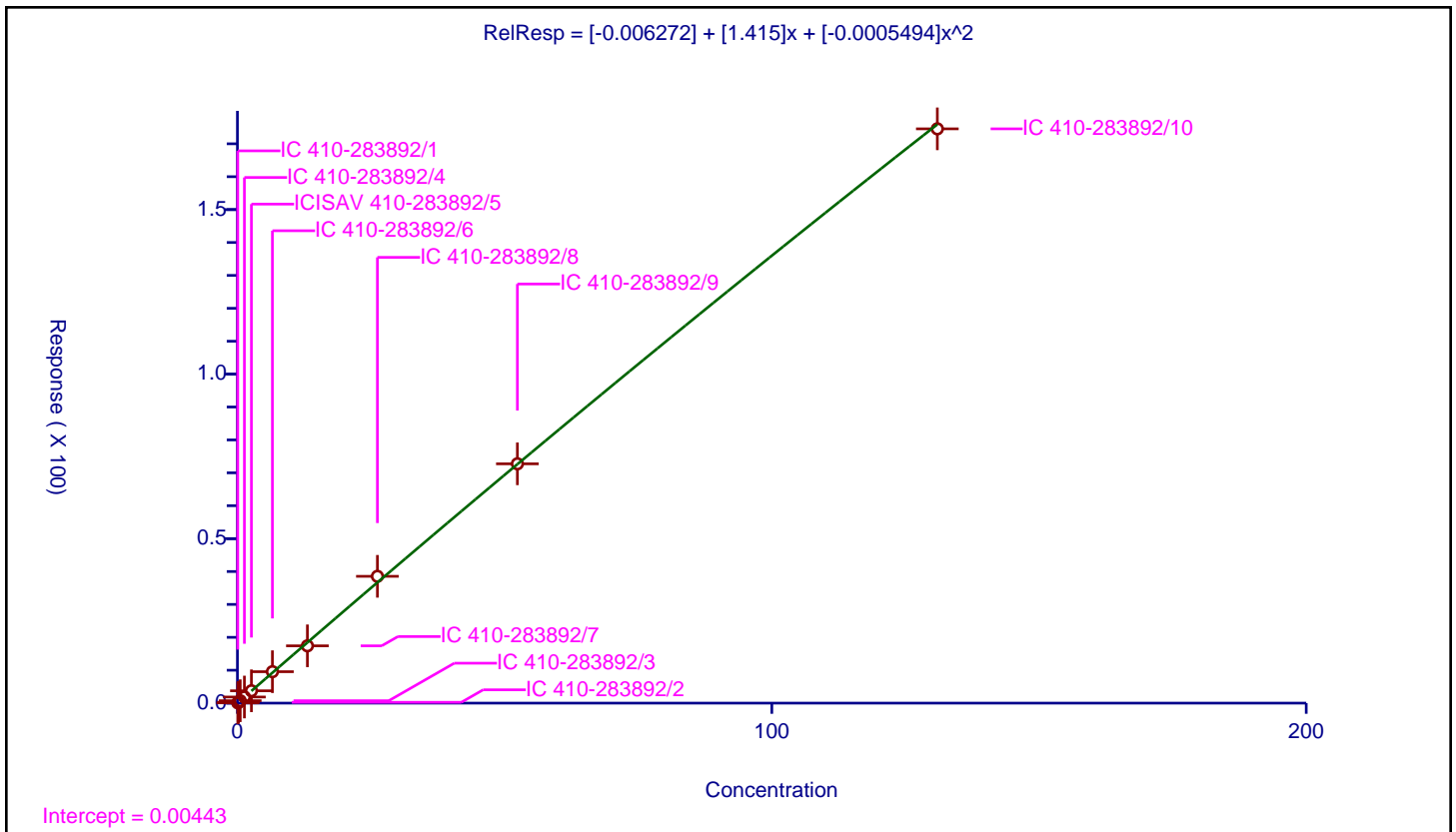
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Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006272
Slope:	1.415
Second Order:	-0.0005494

Error Coefficients	
Standard Error:	8720000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.065487	0.088268	5.0	654204.0	1.347869	Y
2	IC 410-283892/2	0.19646	0.254387	5.0	691937.0	1.294854	Y
3	IC 410-283892/3	0.523894	0.731633	5.0	682883.0	1.396529	Y
4	IC 410-283892/4	1.309735	1.860473	5.0	675382.0	1.420496	Y
5	ICISAV 410-283892/5	2.61947	3.749253	5.0	663036.0	1.431302	Y
6	IC 410-283892/6	6.548675	9.552734	5.0	637015.0	1.458728	Y
7	IC 410-283892/7	13.09735	17.412303	5.0	656951.0	1.329452	Y
8	IC 410-283892/8	26.1947	38.546729	5.0	638673.0	1.471547	Y
9	IC 410-283892/9	52.3894	72.737568	5.0	603912.0	1.388402	Y
10	IC 410-283892/10	130.9735	174.544833	5.0	589465.0	1.332673	Y



Calibration

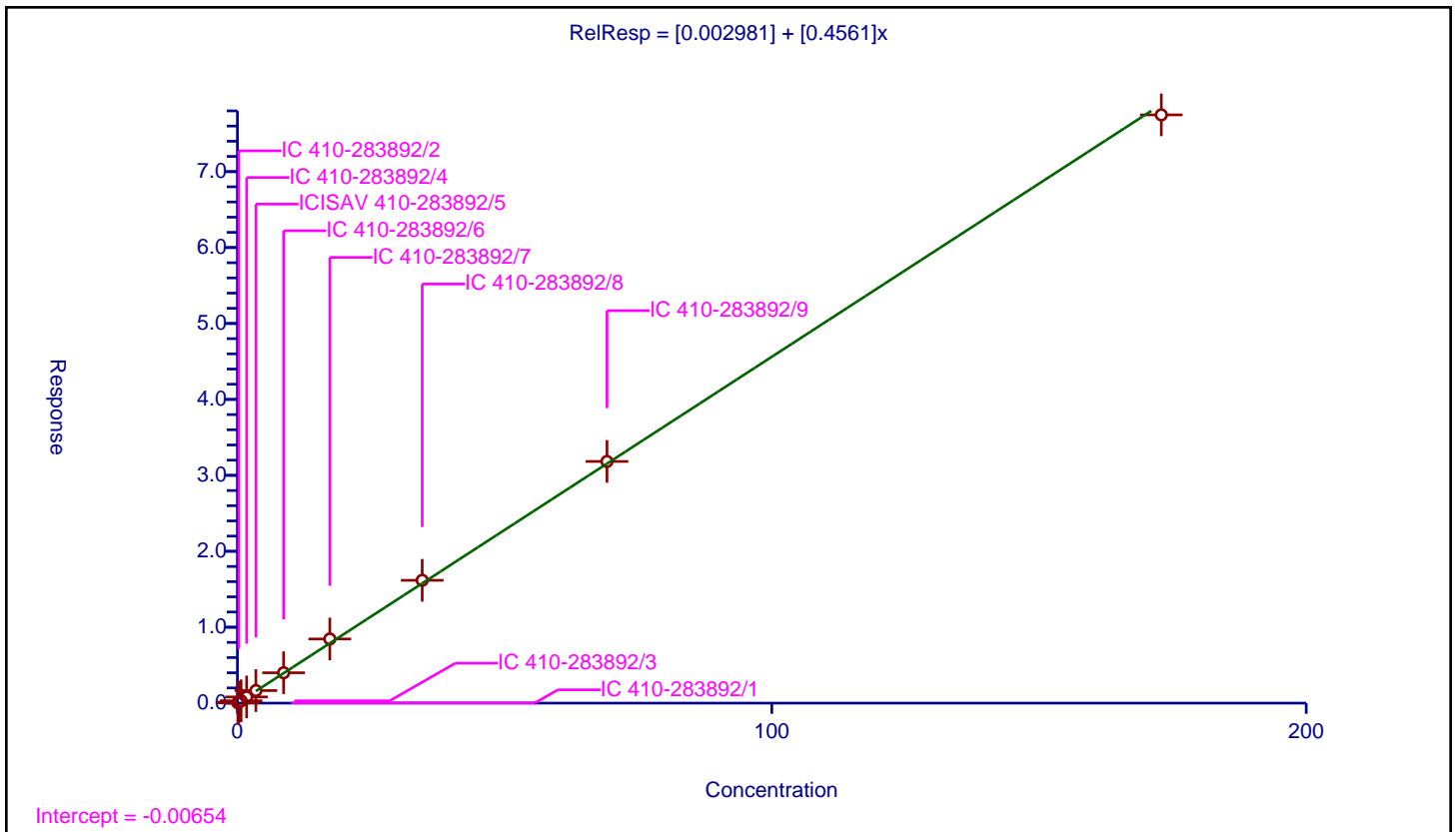
/ BFS_B4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.002981
Slope:	0.4561

Error Coefficients	
Standard Error:	3610000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.086443	0.035249	5.0	654204.0	0.407773	Y
2	IC 410-283892/2	0.259328	0.1265	5.0	691937.0	0.4878	Y
3	IC 410-283892/3	0.69154	0.305719	5.0	682883.0	0.442084	Y
4	IC 410-283892/4	1.72885	0.814406	5.0	675382.0	0.471068	Y
5	ICISAV 410-283892/5	3.4577	1.653726	5.0	663036.0	0.478273	Y
6	IC 410-283892/6	8.64425	3.999513	5.0	637015.0	0.462679	Y
7	IC 410-283892/7	17.2885	8.449382	5.0	656951.0	0.488728	Y
8	IC 410-283892/8	34.577	16.176236	5.0	638673.0	0.467832	Y
9	IC 410-283892/9	69.154	31.830085	5.0	603912.0	0.460278	Y
10	IC 410-283892/10	172.885	77.472997	5.0	589465.0	0.448119	Y



Calibration

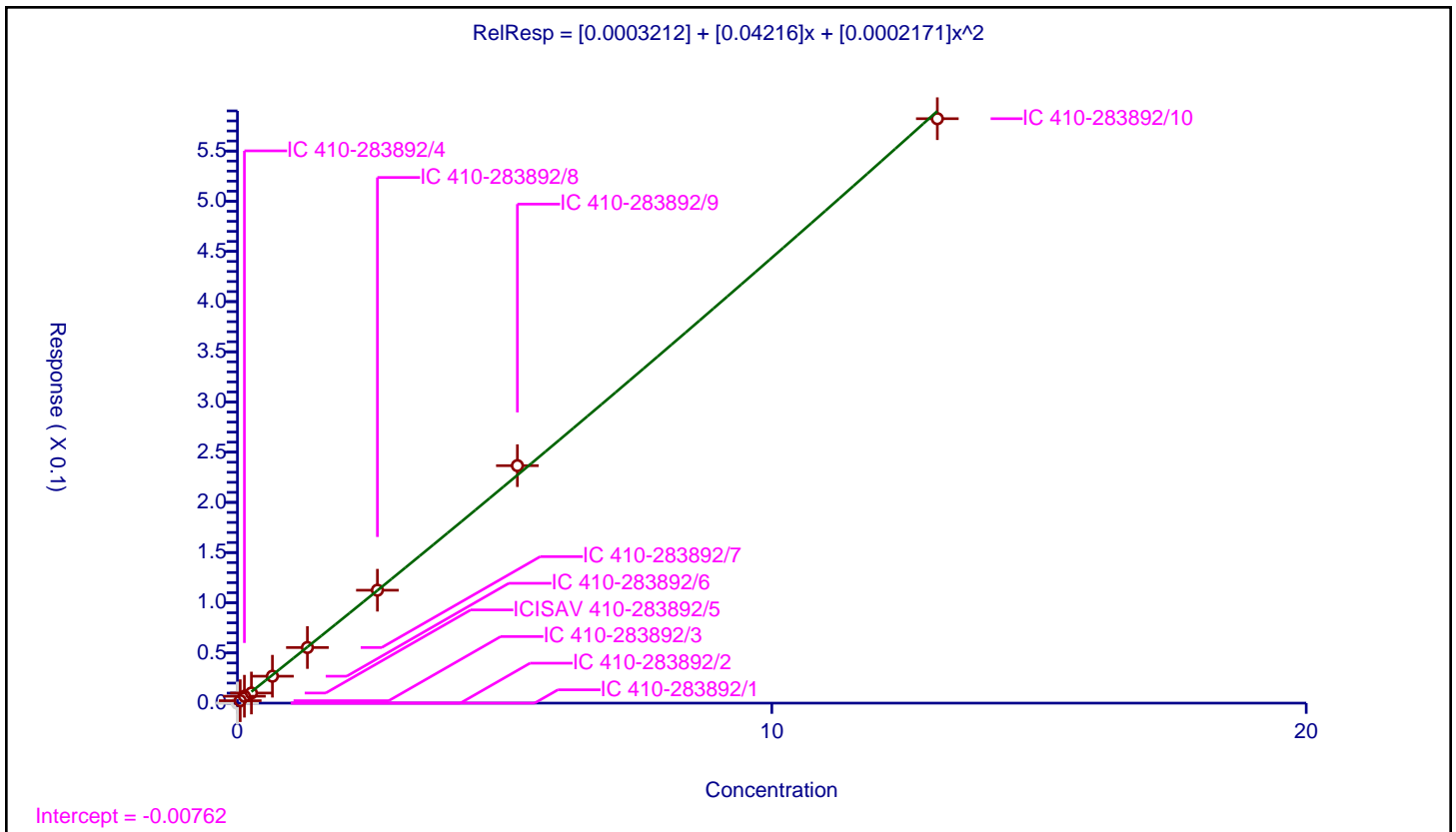
/ BFS_A2B3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0003212
Slope:	0.04216
Second Order:	0.0002171

Error Coefficients	
Standard Error:	34100
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.0	0.0	5.0	654204.0	NaN	N
2	IC 410-283892/2	0.0	0.0	5.0	691937.0	NaN	N
3	IC 410-283892/3	0.05239	0.002424	5.0	682883.0	0.04626	Y
4	IC 410-283892/4	0.130975	0.006892	5.0	675382.0	0.052624	Y
5	ICISAV 410-283892/5	0.26195	0.010067	5.0	663036.0	0.038432	Y
6	IC 410-283892/6	0.654875	0.02682	5.0	637015.0	0.040955	Y
7	IC 410-283892/7	1.30975	0.055392	5.0	656951.0	0.042292	Y
8	IC 410-283892/8	2.6195	0.112499	5.0	638673.0	0.042947	Y
9	IC 410-283892/9	5.239	0.236574	5.0	603912.0	0.045156	Y
10	IC 410-283892/10	13.0975	0.582214	5.0	589465.0	0.044452	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: ICV 410-283892/12 Calibration Date: 08/09/2022 02:21
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG08BFSCAL-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.060		3.58	4.45	-19.7	30.0
BFS_A3B	Q2ID		1.197		3.99	4.98	-19.9	30.0
BFS_B3	L1ID		0.6874		12.9	15.8	-18.6	30.0
BFS_A2B2	L1ID		0.4995		30.6	34.7	-12.0	30.0
BFS_A4B	L1ID		1.805		2.56	2.75	-7.0	30.0
BFS_AB3	Q2ID		0.7248		35.6	37.2	-4.3	30.0
BFS_A3B2	Q2ID		1.329		6.17	6.55	-5.8	30.0
BFS_B4	L1ID		0.4489		8.50	8.64	-1.7	30.0
BFS_A2B3	Q2ID		0.0351		0.536	0.655	-18.2	30.0
13C3 HFPO-DA	Ave	0.2143	0.2095		4.89	5.00	-2.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Aug-2022 02:21:36 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:12:08 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:45:15

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.961	0.0	0.904	587243	3.58		1387	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.042	0.002	0.923	740934	3.99		49.2	M
3 BFS_B3									M
553.00 > 345.00	4.202	4.201	0.002	0.959	1354917	12.9		73.9	M
4 BFS_A2B2									M
569.00 > 229.00	4.307	4.305	0.002	0.983	2156612	30.6		109	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.382	4.388	-0.006	0.877	621920	4.89	97.8	271	
5 BFS_A4B									
585.00 > 113.00	4.390	4.388	0.002	1.002	617681	2.56		181	
7 BFS_AB3									
619.00 > 229.00	4.566	4.564	0.002	1.042	3353534	35.6		189	
8 BFS_A3B2									
635.00 > 113.00	4.660	4.671	-0.011	1.063	1082307	6.17		199	
9 BFS_B4									
669.00 > 461.00	4.805	4.804	0.001	1.097	482641	8.50		206	
10 BFS_A2B3									M
685.00 > 571.00	4.907	4.907	0.0	1.120	2856	0.5355		60.7	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.001		2968895	5.00		327	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_BFS_00006

Amount Added: 200.00

Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d

Injection Date: 09-Aug-2022 02:21:36

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

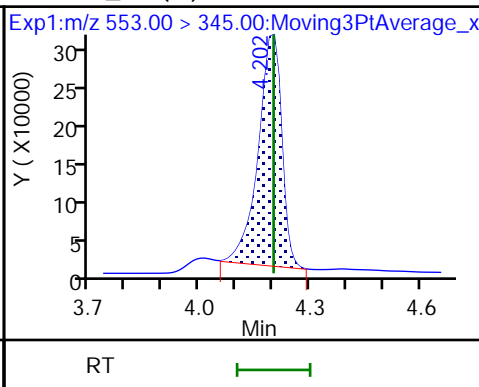
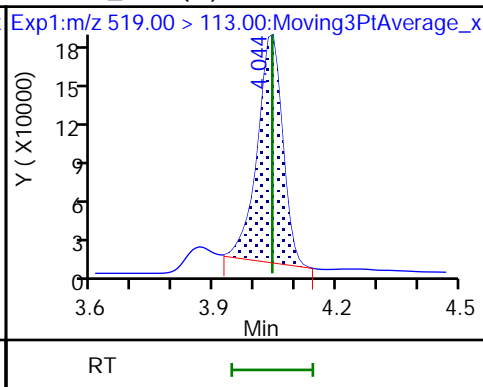
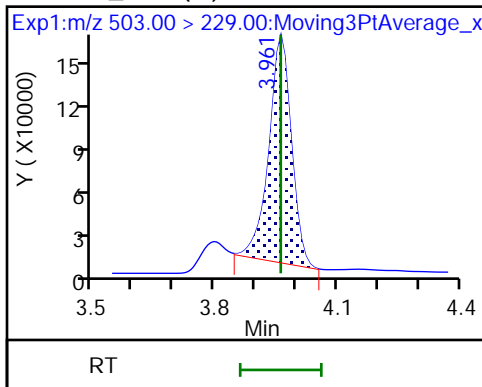
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

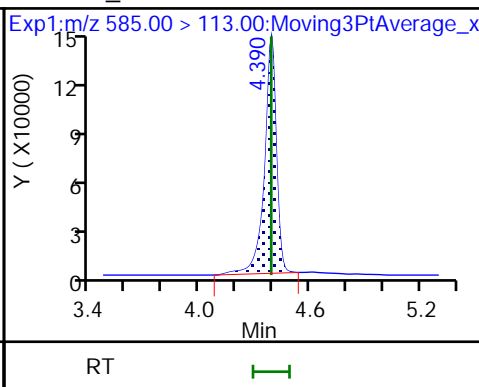
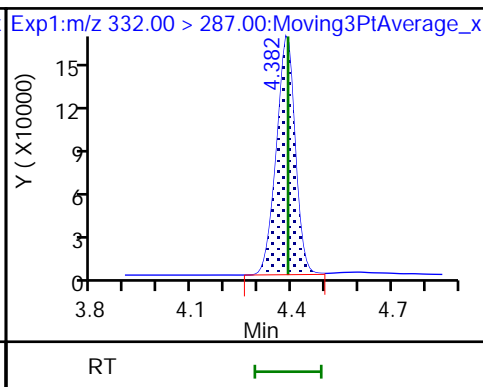
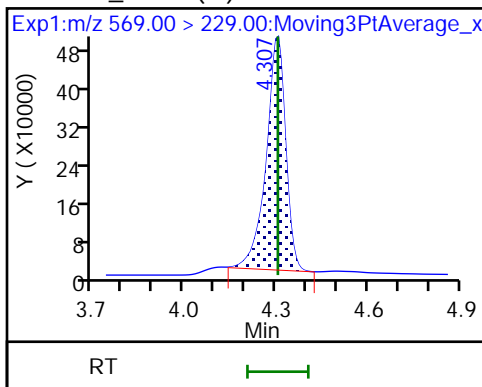
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

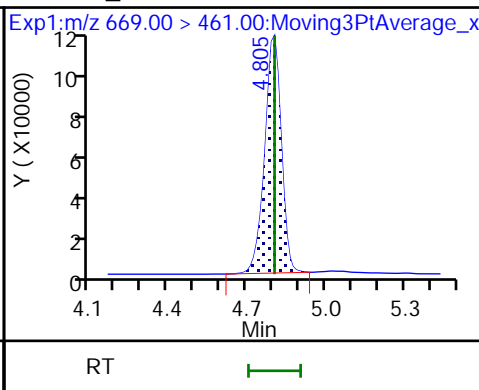
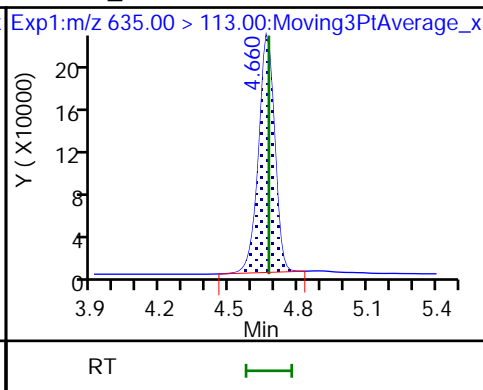
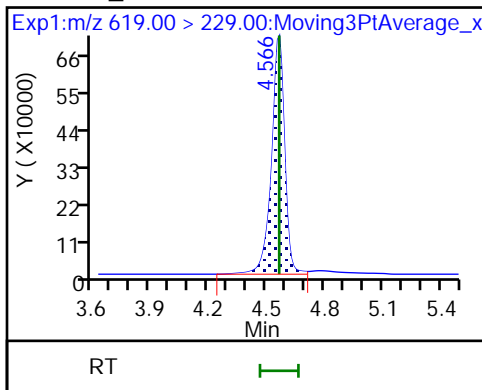
5 BFS_A4B



7 BFS_AB3

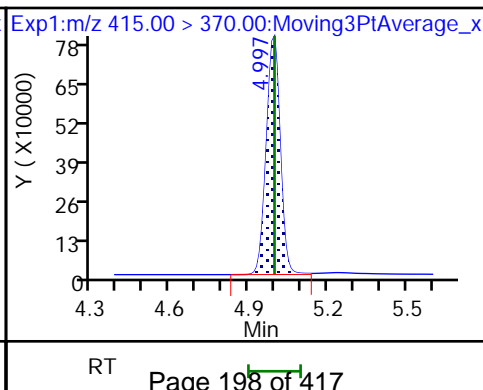
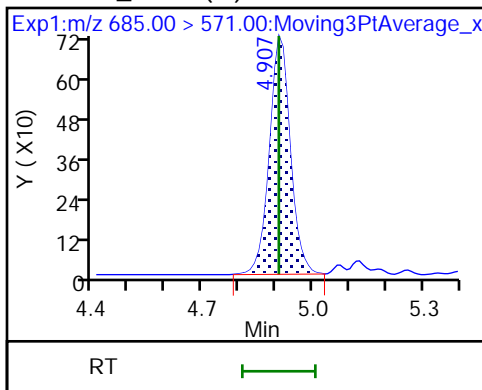
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

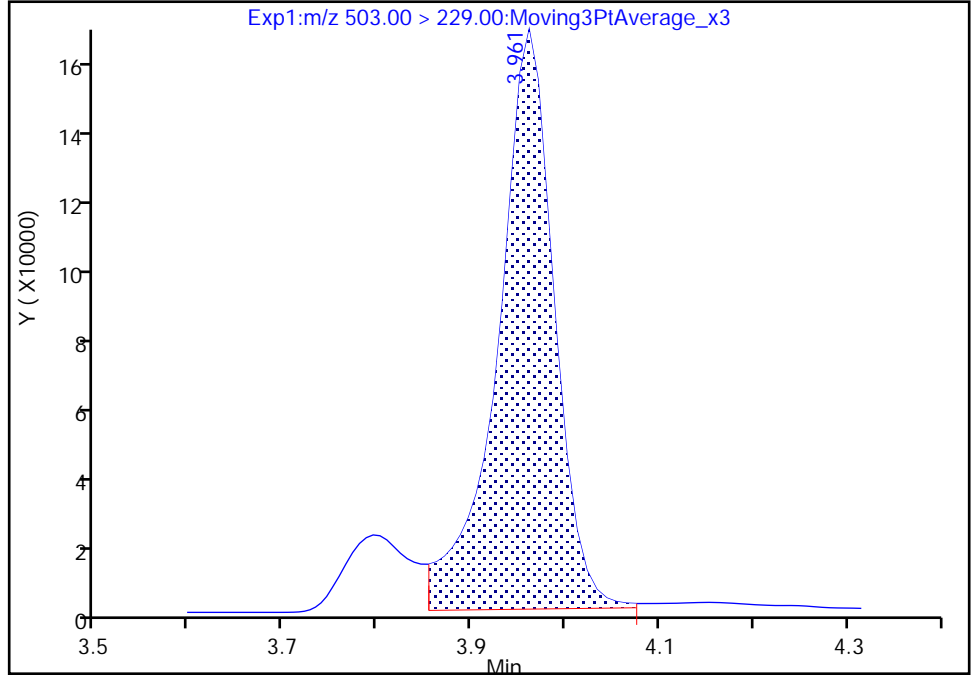
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Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

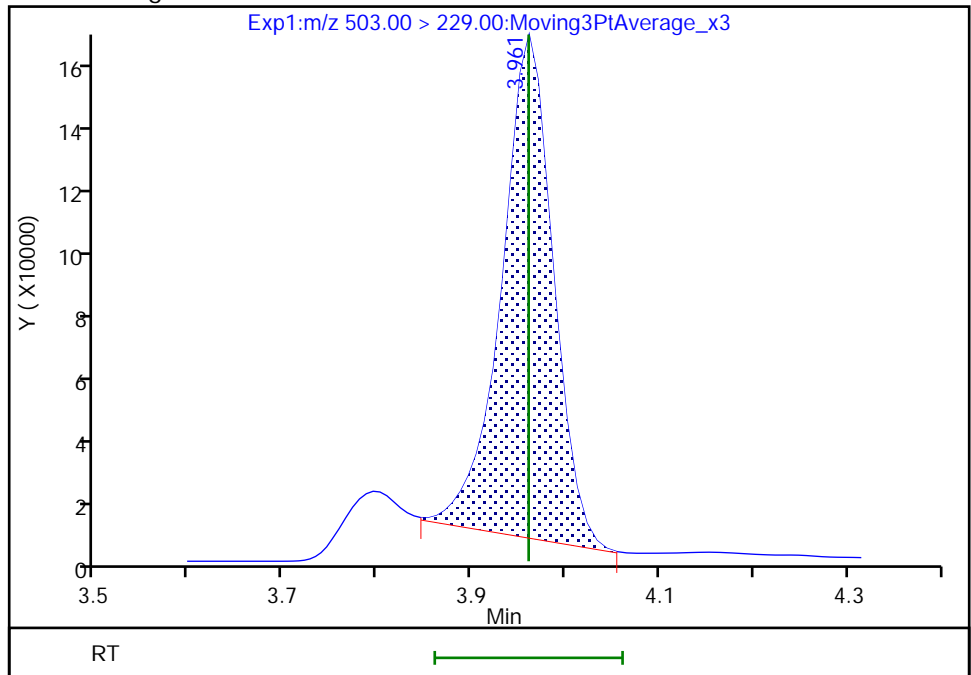
RT: 3.96
Area: 666371
Amount: 3.775641
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 587243
Amount: 3.575015
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:45:10
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

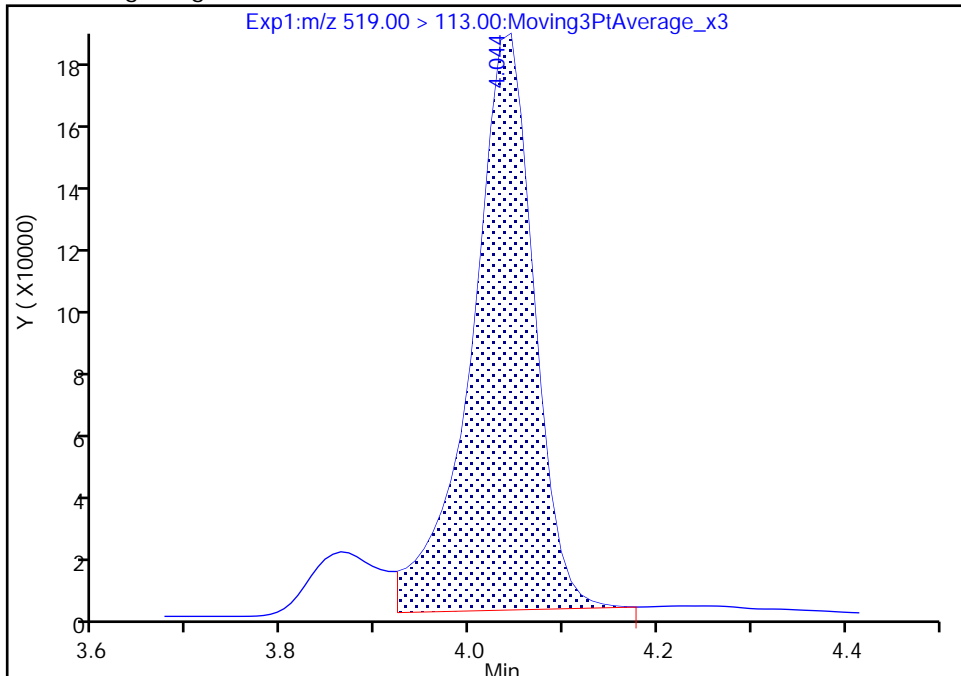
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

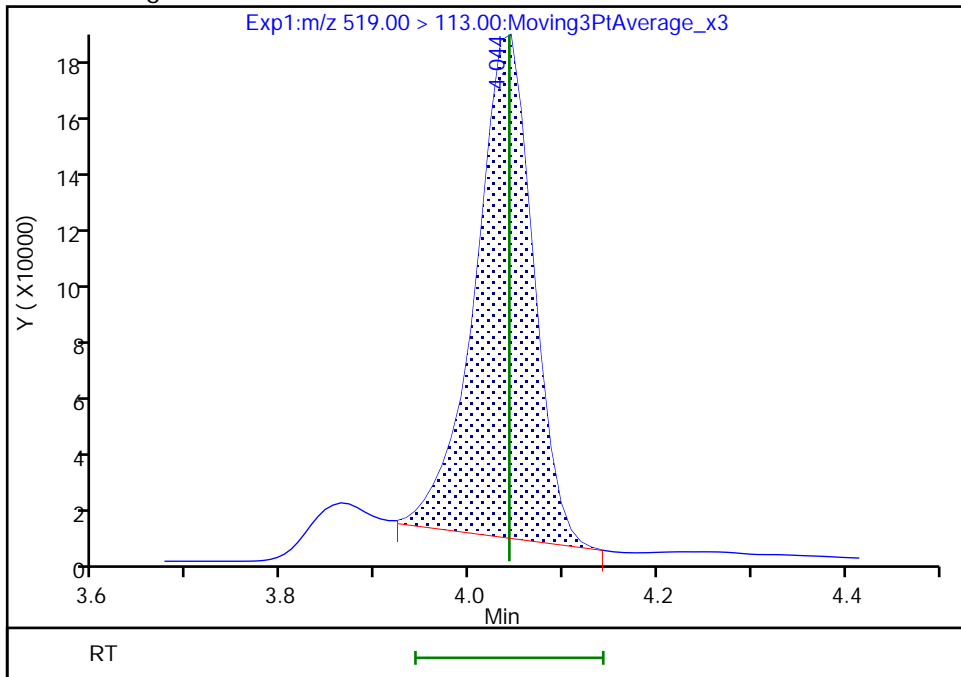
RT: 4.04
Area: 826222
Amount: 4.032769
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 740934
Amount: 3.986105
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:45:06
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 200 of 417

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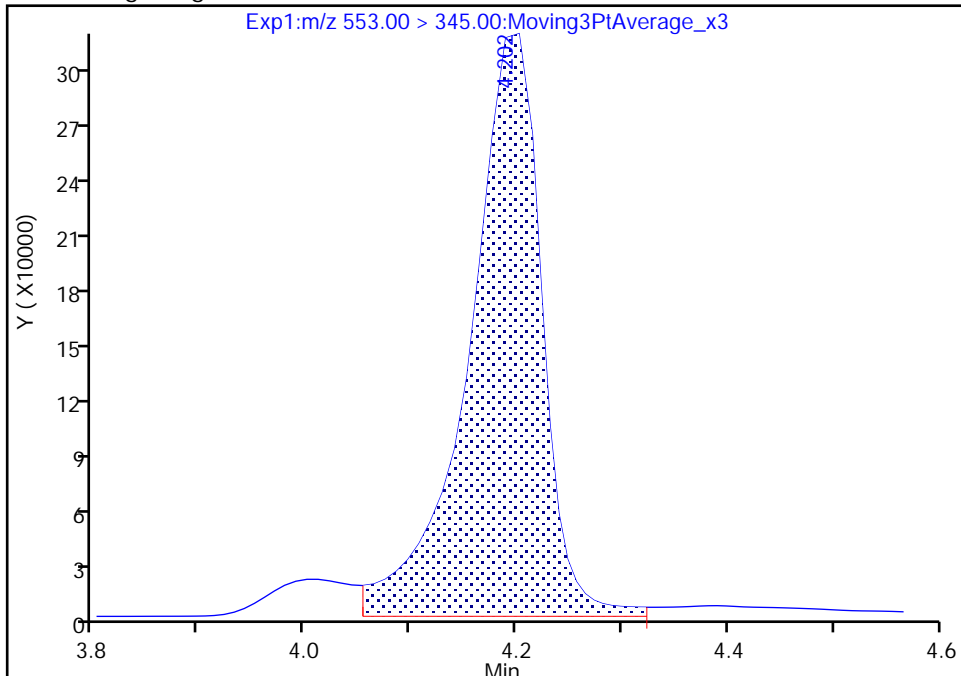
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Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

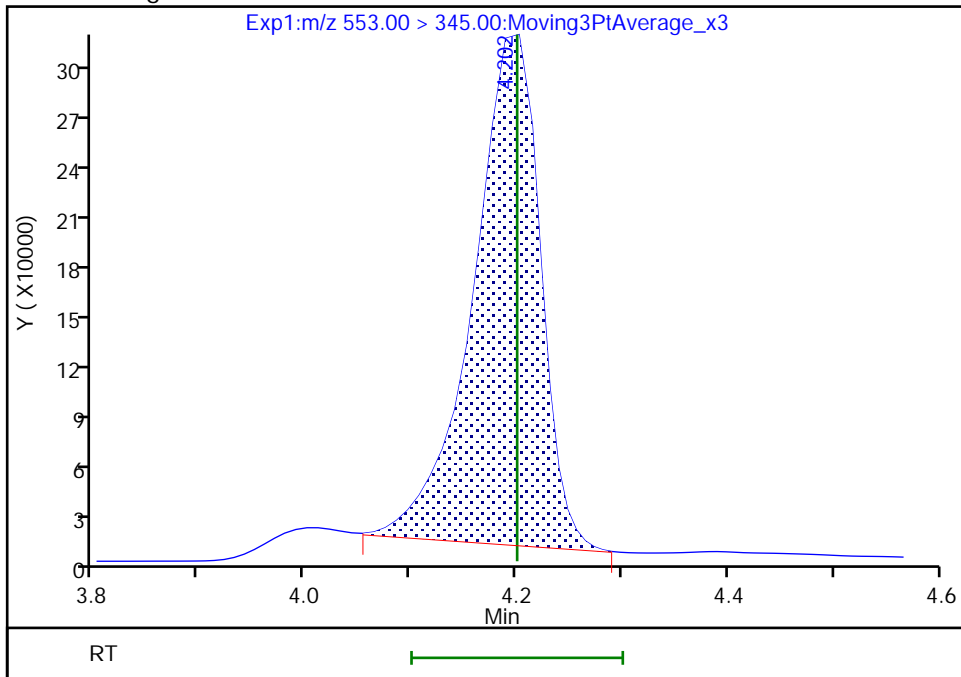
RT: 4.20
Area: 1513716
Amount: 14.400461
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 1354917
Amount: 12.893127
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:51
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

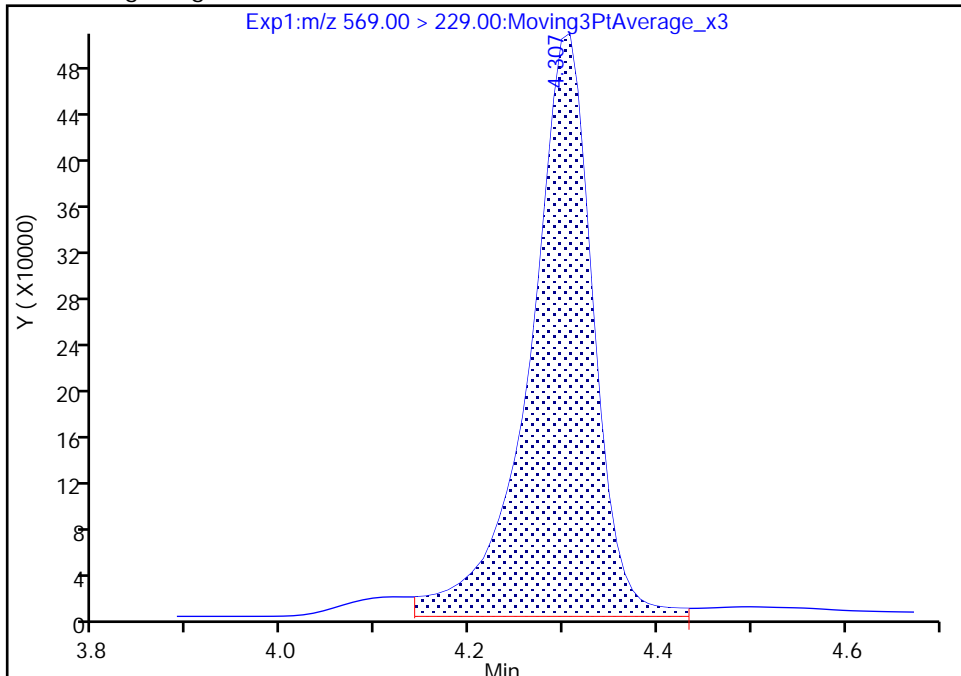
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

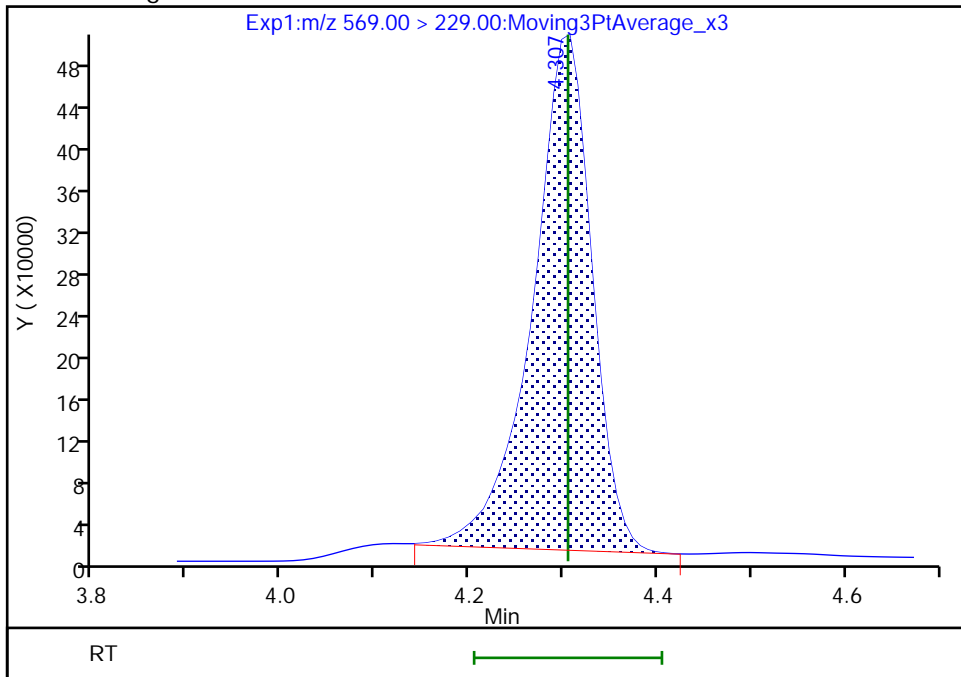
RT: 4.31
Area: 2350115
Amount: 33.297611
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 2156612
Amount: 30.551489
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:55
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

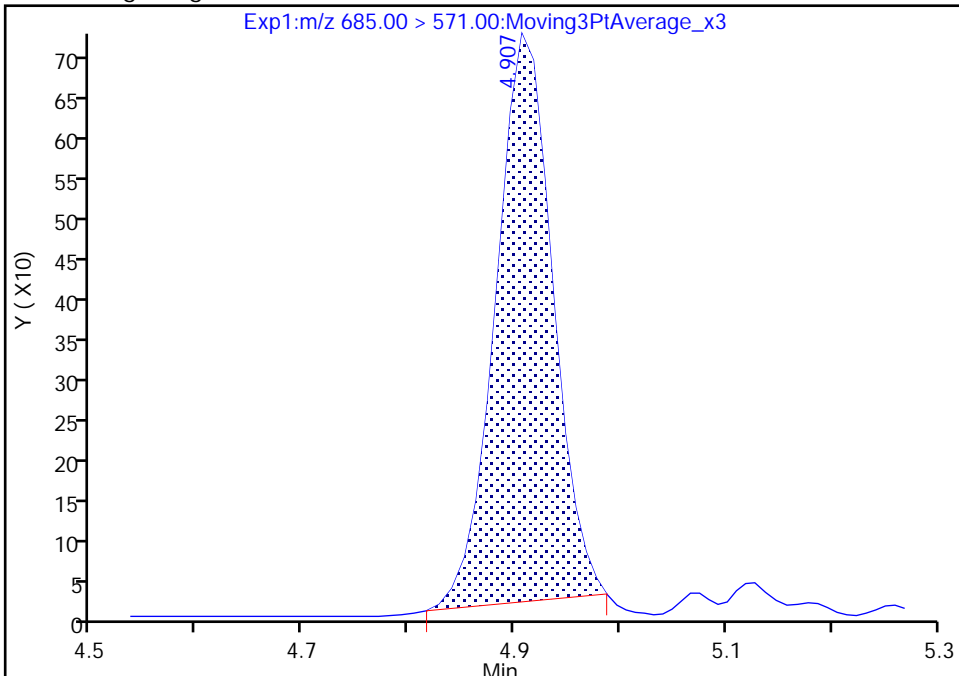
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

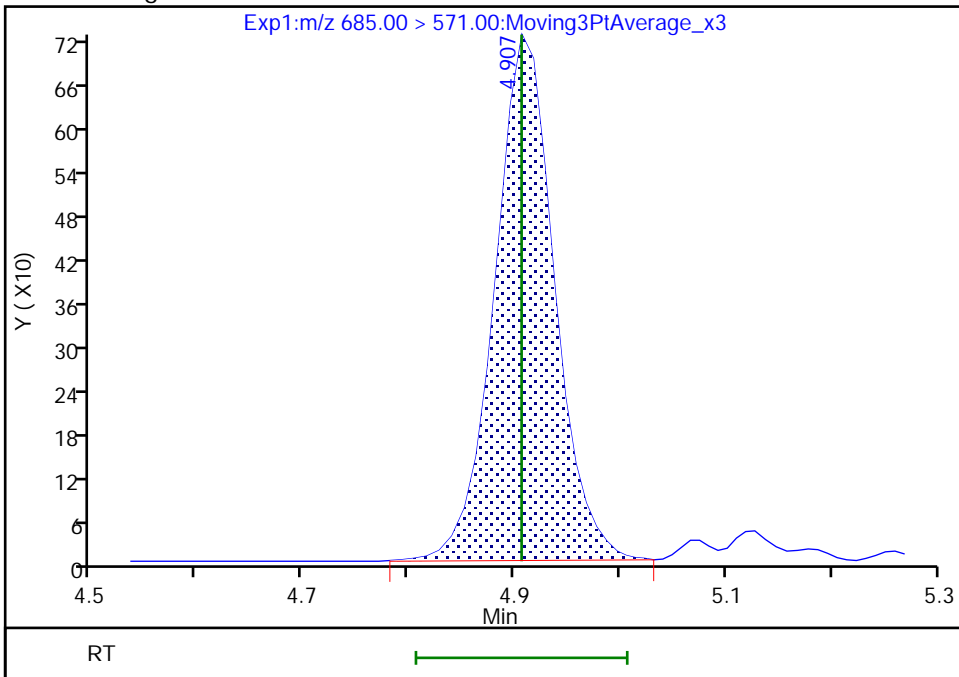
RT: 4.91
Area: 2660
Amount: 0.484100
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 2856
Amount: 0.535505
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:45
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283897/1 Calibration Date: 08/09/2022 02:46
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.171		0.0414	0.0445	-7.0	50.0
BFS_A3B	Q2ID		1.212		0.0450	0.0498	-9.6	50.0
BFS_B3	L1ID		0.6098		0.146	0.158	-7.7	50.0
BFS_A2B2	L1ID		0.5123		0.260	0.347	-25.2	50.0
BFS_A4B	L1ID		1.674		0.0277	0.0275	0.8	50.0
BFS_AB3	Q2ID		0.7129		0.360	0.372	-3.1	50.0
BFS_A3B2	Q2ID		1.286		0.0639	0.0655	-2.4	50.0
BFS_B4	L1ID		0.5210		0.0922	0.0864	6.7	50.0
BFS_A2B3	Q2ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2143	0.2148		5.01	5.00	0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 09-Aug-2022 02:46:45 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:43 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:03:01

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.960	3.960	0.0	0.903	7006	0.0414	93.0	148	M
2 BFS_A3B									M
519.00 > 113.00	4.042	4.042	0.0	0.921	8105	0.0450	90.4	36.8	M
3 BFS_B3									
553.00 > 345.00	4.200	4.200	0.0	0.957	12985	0.1462	92.3	30.4	
4 BFS_A2B2									
569.00 > 229.00	4.304	4.304	0.0	0.981	23890	0.2595	74.8	108	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.388	0.0	0.880	671844	5.01	100	280	
5 BFS_A4B									M
585.00 > 113.00	4.388	4.388	0.0	1.000	6186	0.0277	101	55.7	M
7 BFS_AB3									
619.00 > 229.00	4.564	4.564	0.0	1.040	35631	0.3604	96.9	167	
8 BFS_A3B2									
635.00 > 113.00	4.657	4.657	0.0	1.061	11313	0.0639	97.6	99.9	
9 BFS_B4									M
669.00 > 461.00	4.793	4.793	0.0	1.092	6052	0.0922	107	18.6	M
* 11 13C2 PFOA									
415.00 > 370.00	4.988	4.988	0.0		3128234	5.00		325	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d

Injection Date: 09-Aug-2022 02:46:45

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

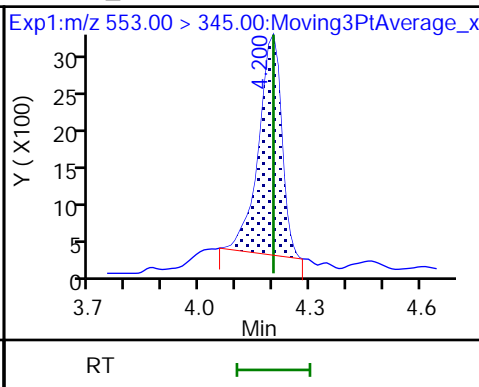
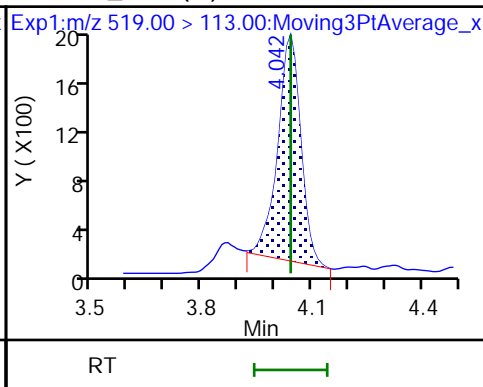
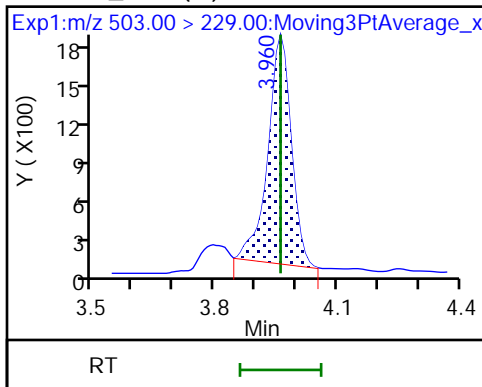
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

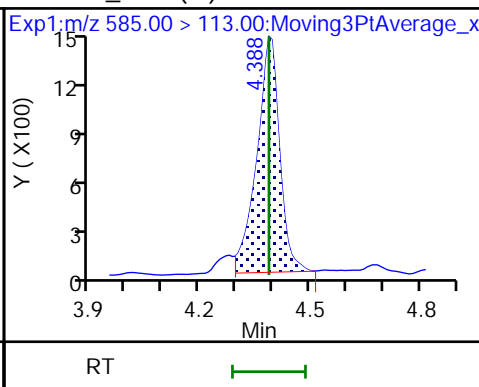
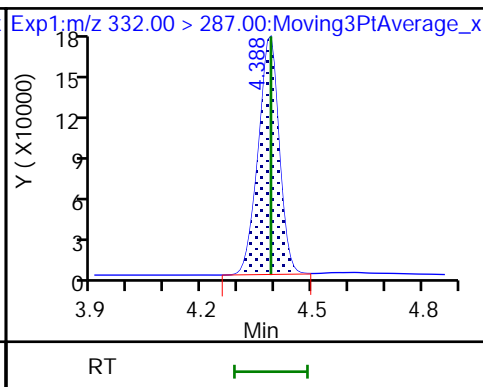
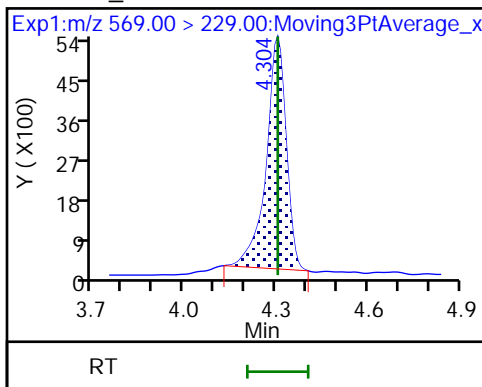
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

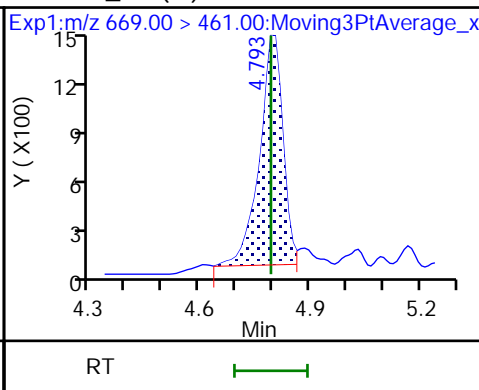
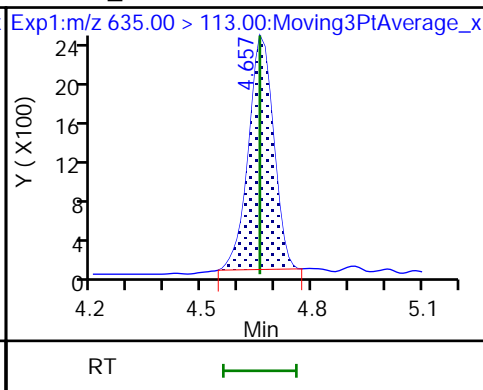
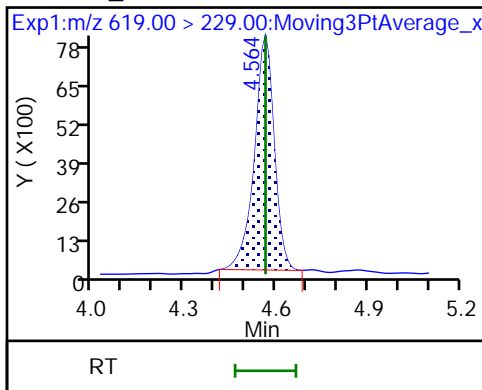
5 BFS_A4B (M)



7 BFS_AB3

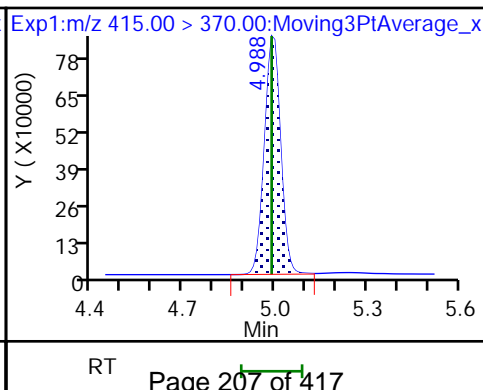
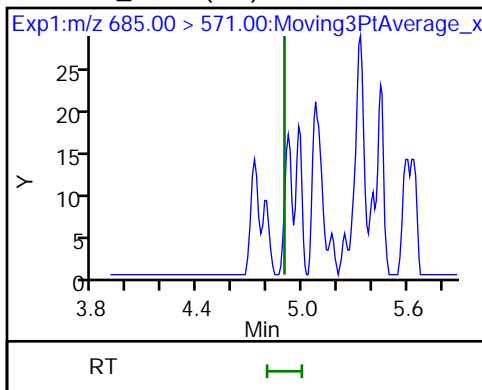
8 BFS_A3B2

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

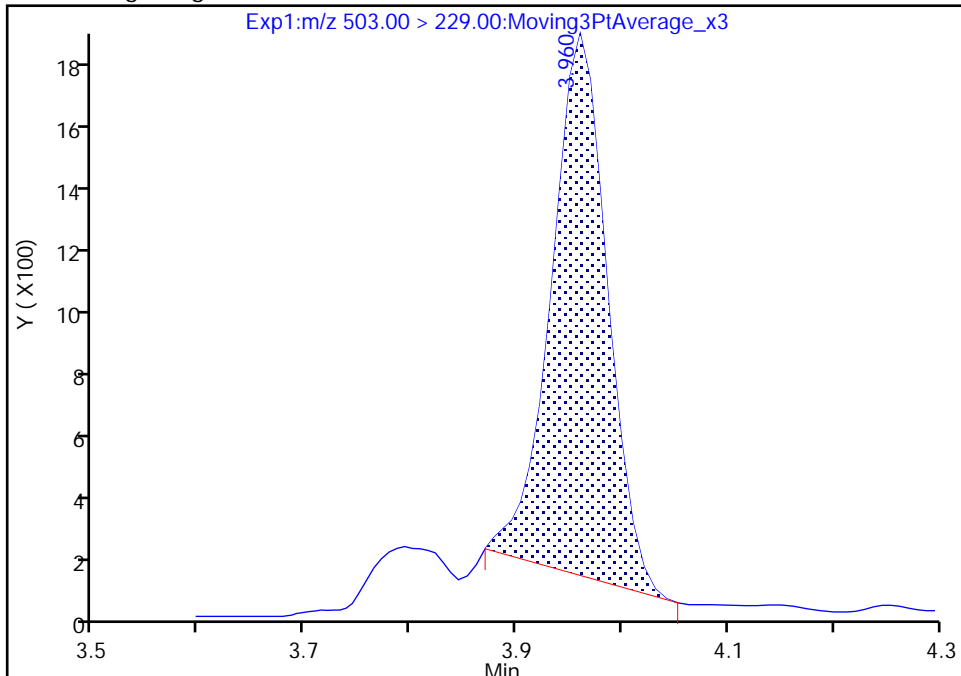
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

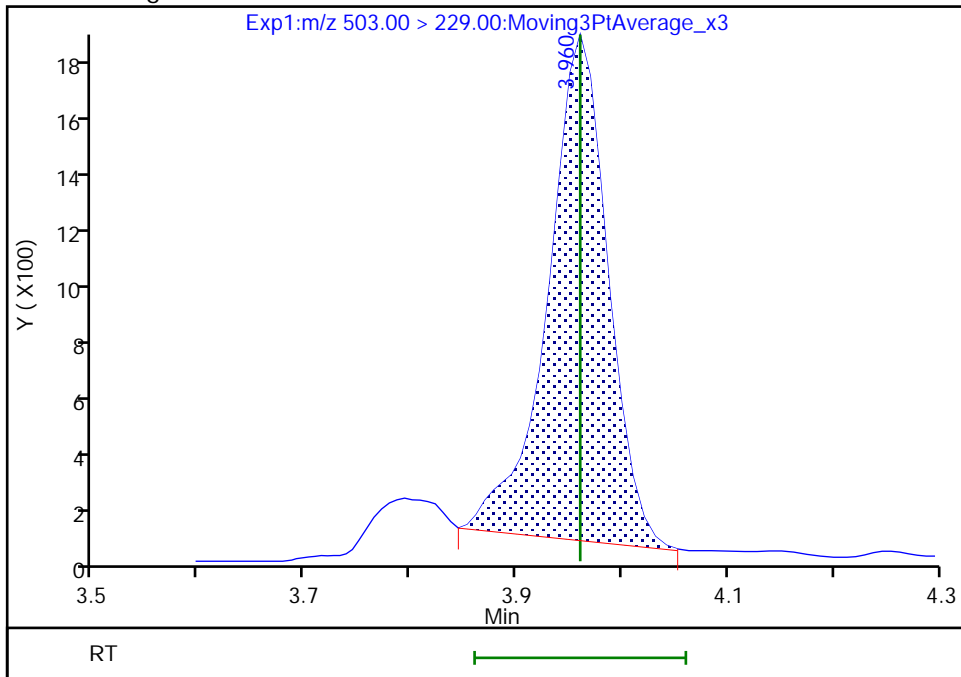
RT: 3.96
Area: 6323
Amount: 0.037565
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 7006
Amount: 0.041431
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:00
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

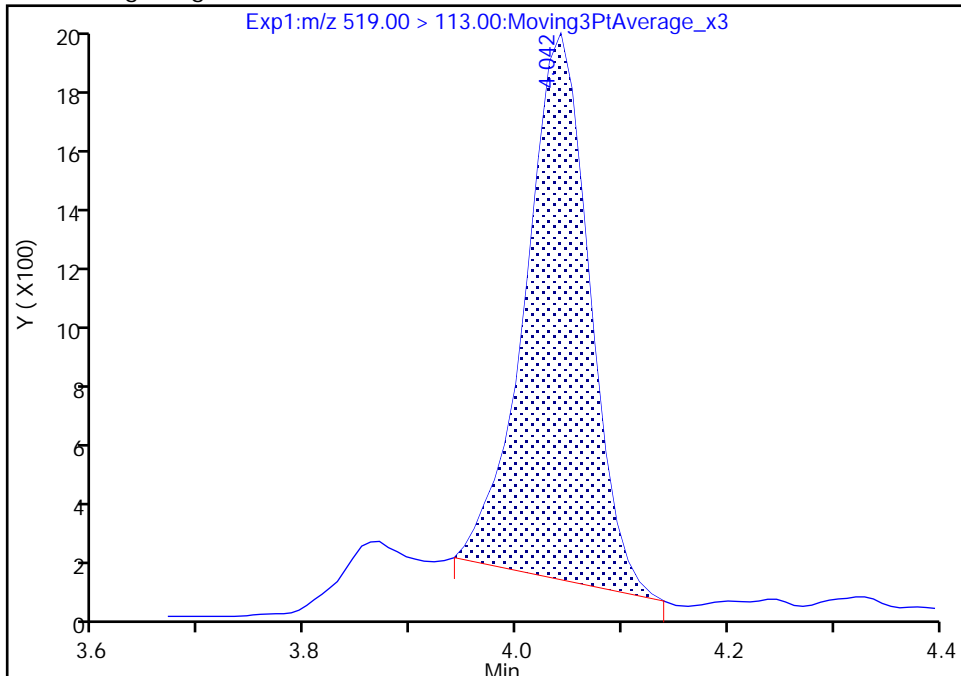
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

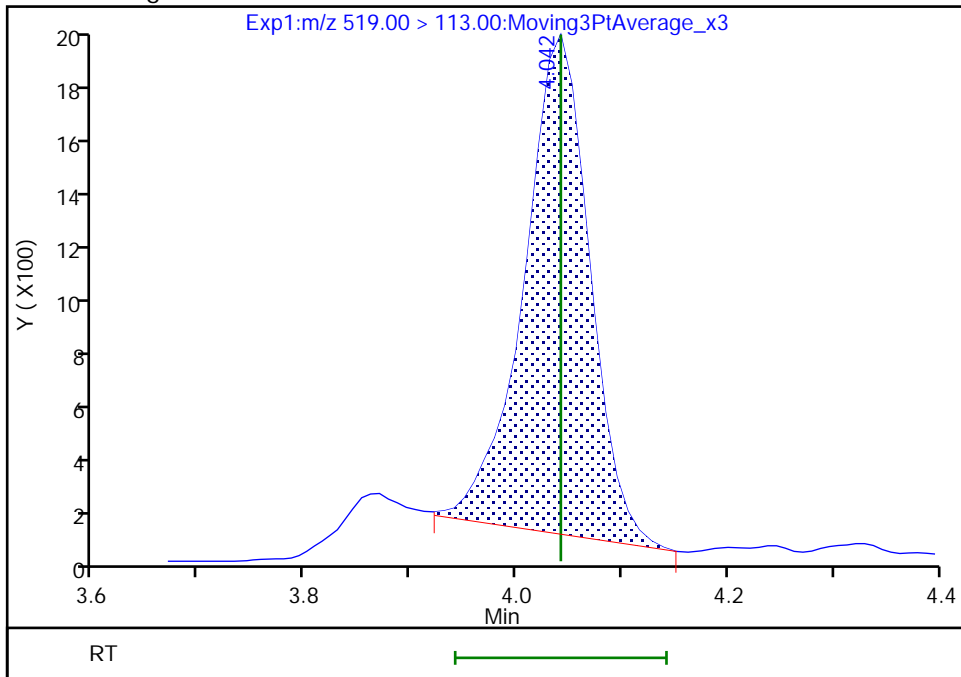
RT: 4.04
Area: 7798
Amount: 0.103994
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 8105
Amount: 0.044974
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:05
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

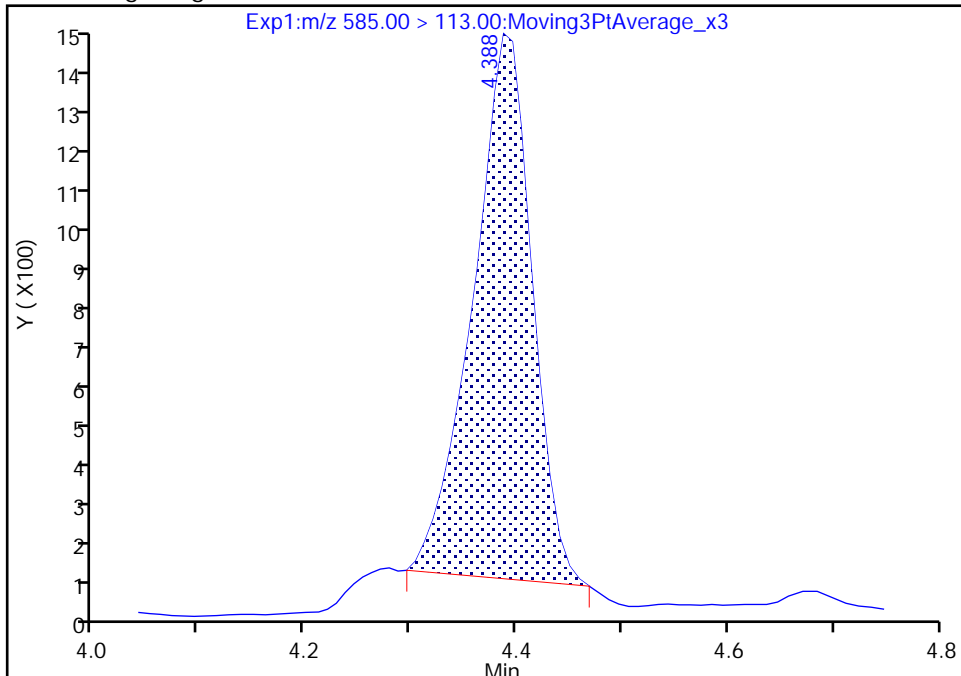
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

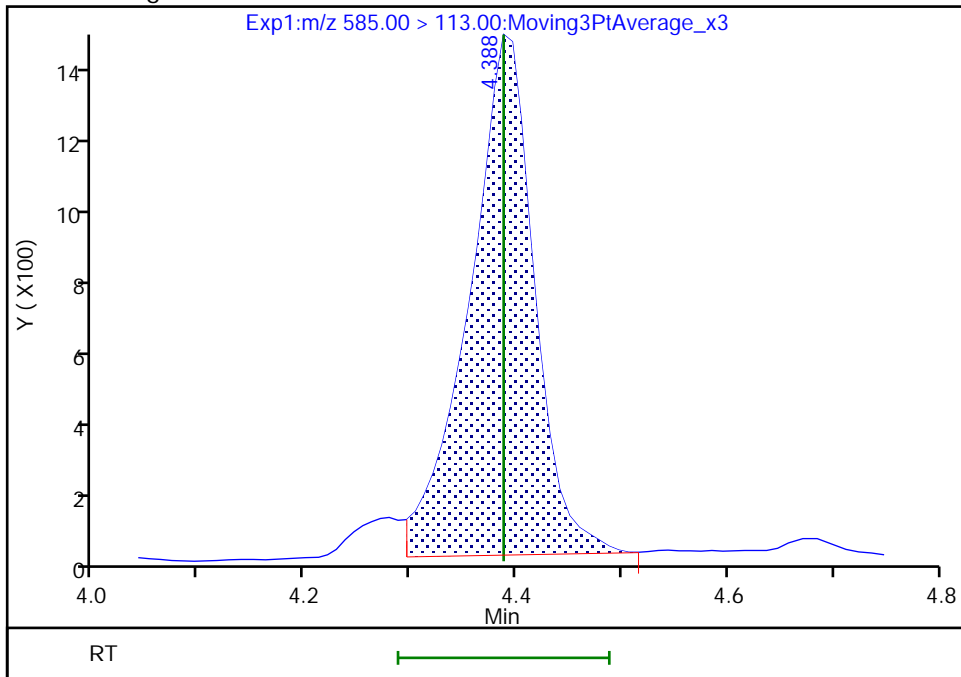
RT: 4.39
Area: 5312
Amount: 0.024389
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 6186
Amount: 0.027733
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:19
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

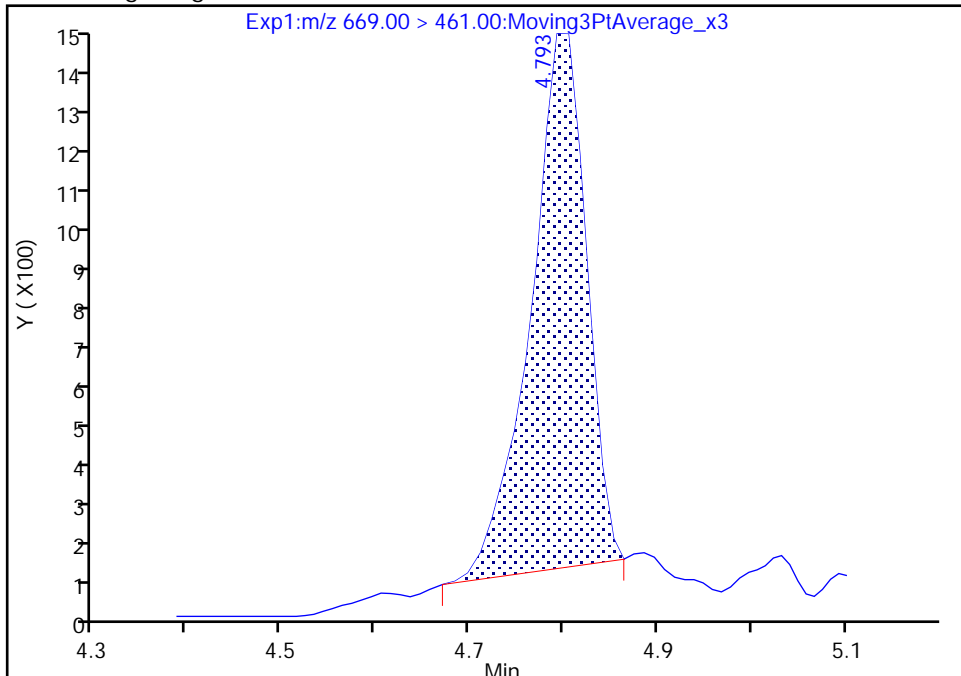
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Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

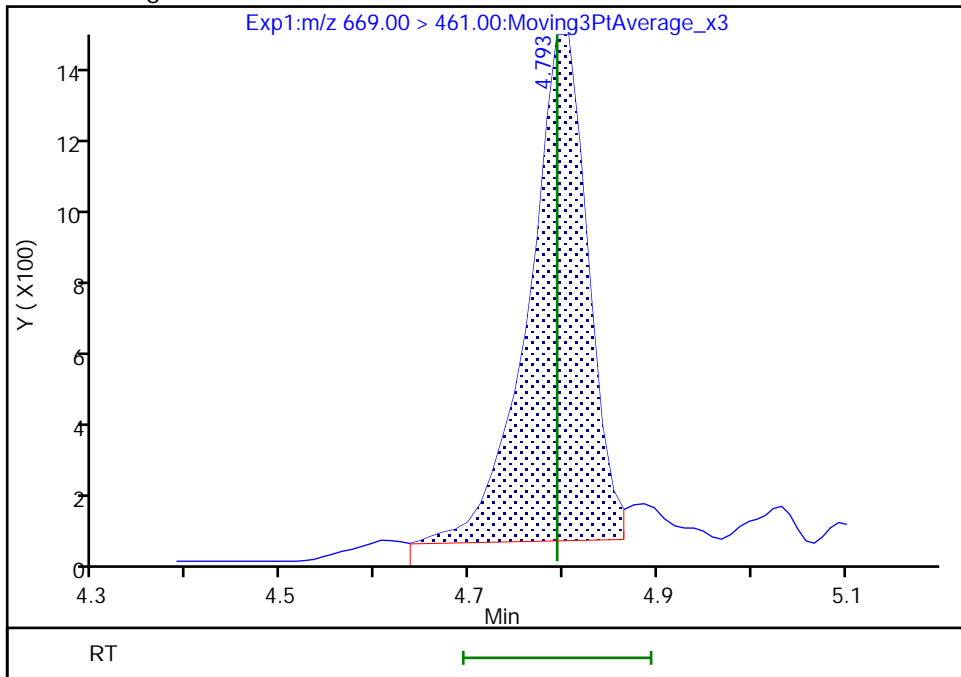
RT: 4.79
Area: 5384
Amount: 0.081313
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 6052
Amount: 0.092213
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:26
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/2 Calibration Date: 08/09/2022 02:59
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.145		1.55	1.78	-13.0	30.0
BFS_A3B	Q2ID		1.297		1.74	1.99	-12.8	30.0
BFS_B3	L1ID		0.7500		5.65	6.34	-10.9	30.0
BFS_A2B2	L1ID		0.5411		13.2	13.9	-4.9	30.0
BFS_A4B	L1ID		1.953		1.11	1.10	0.8	30.0
BFS_AB3	Q2ID		0.7727		15.1	14.9	1.7	30.0
BFS_A3B2	Q2ID		1.438		2.67	2.62	1.9	30.0
BFS_B4	L1ID		0.4757		3.60	3.46	4.1	30.0
BFS_A2B3	Q2ID		0.0409		0.246	0.262	-6.0	30.0
13C3 HFPO-DA	Ave	0.2143	0.2184		5.10	5.00	1.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
 Lims ID: CCV 2_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 02:59:22 ALS Bottle#: 6 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:44 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:46:39

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.961	0.0	0.903	271238	1.55	87.0	1185	M
2 BFS_A3B									M
519.00 > 113.00	4.043	4.043	0.0	0.921	343340	1.74	87.2	47.4	M
3 BFS_B3									M
553.00 > 345.00	4.201	4.201	0.0	0.957	632368	5.65	89.1	66.5	M
4 BFS_A2B2									M
569.00 > 229.00	4.305	4.305	0.0	0.981	999269	13.2	95.1	103	M
5 BFS_A4B									
585.00 > 113.00	4.389	4.389	0.0	1.000	285863	1.11	101	150	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.389	4.389	0.0	0.878	665079	5.10	102	271	
7 BFS_AB3									M
619.00 > 229.00	4.565	4.565	0.0	1.040	1529179	15.1	102	196	M
8 BFS_A3B2									
635.00 > 113.00	4.658	4.658	0.0	1.061	501127	2.67	102	193	
9 BFS_B4									
669.00 > 461.00	4.793	4.793	0.0	1.092	218786	3.60	104	167	
10 BFS_A2B3									M
685.00 > 571.00	4.918	4.918	0.0	1.121	1426	0.2463	94.0	29.5	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.0		3045624	5.00		331	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d

Injection Date: 09-Aug-2022 02:59:22

Instrument ID: 30733

Lims ID: CCV_2_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

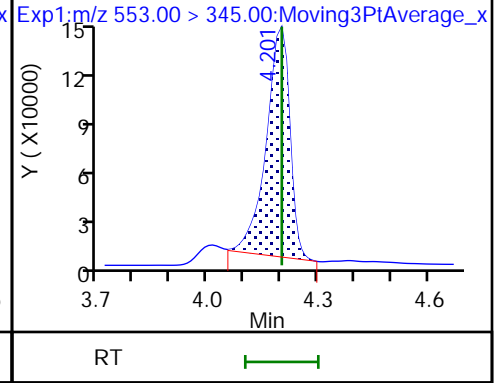
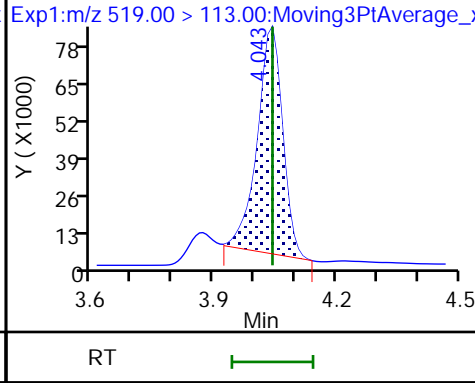
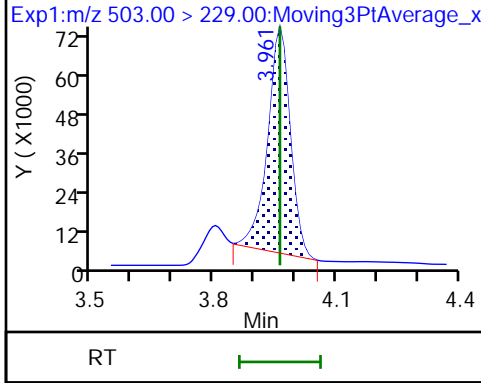
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

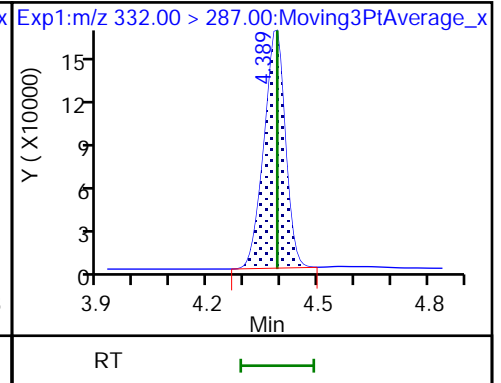
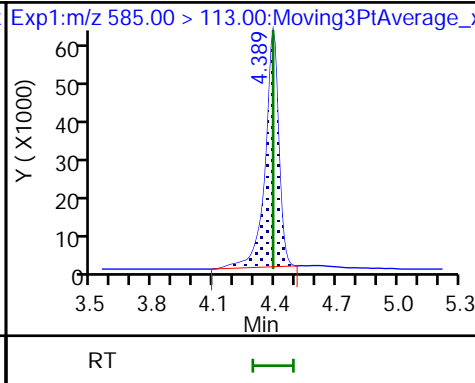
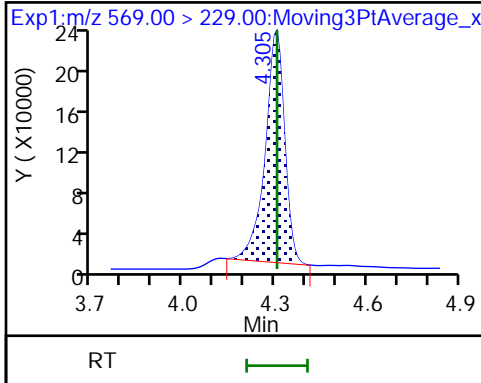
3 BFS_B3 (M)



4 BFS_A2B2 (M)

5 BFS_A4B

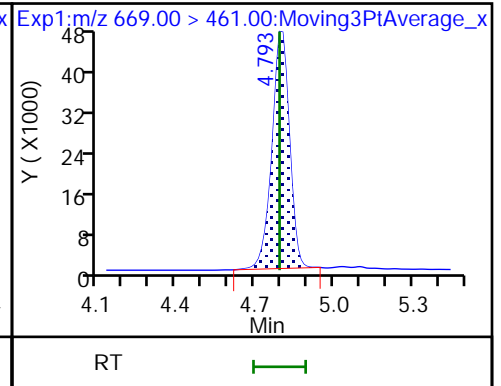
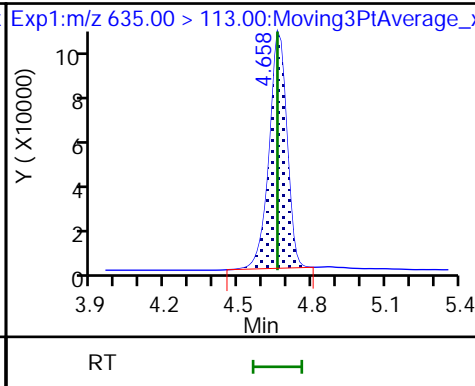
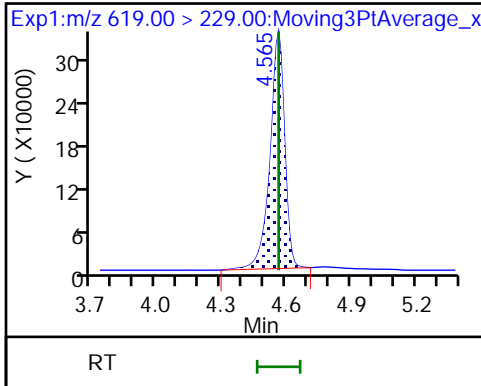
D 6 13C3 HFPO-DA



7 BFS_AB3 (M)

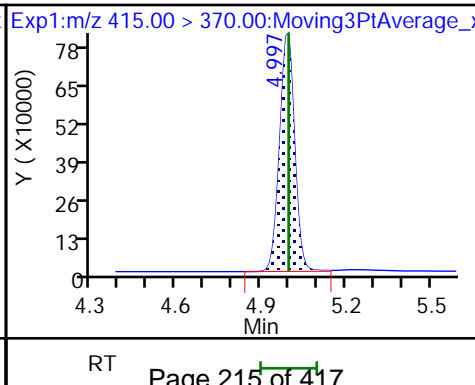
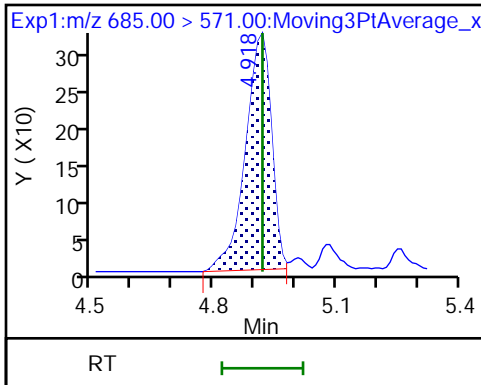
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

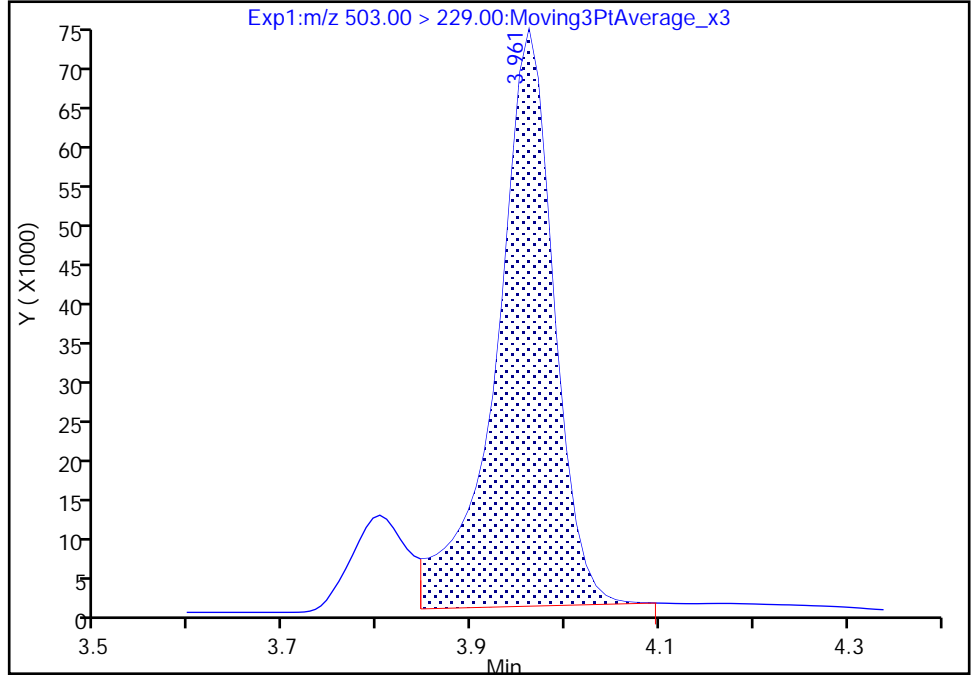
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

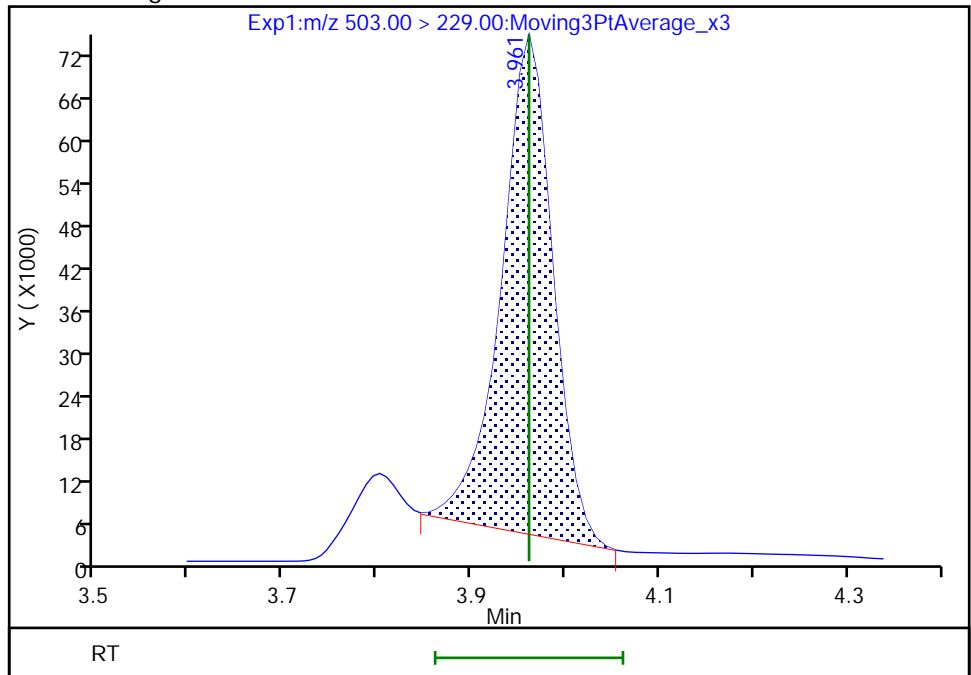
RT: 3.96
Area: 313273
Amount: 1.788646
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 271238
Amount: 1.549392
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:41
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

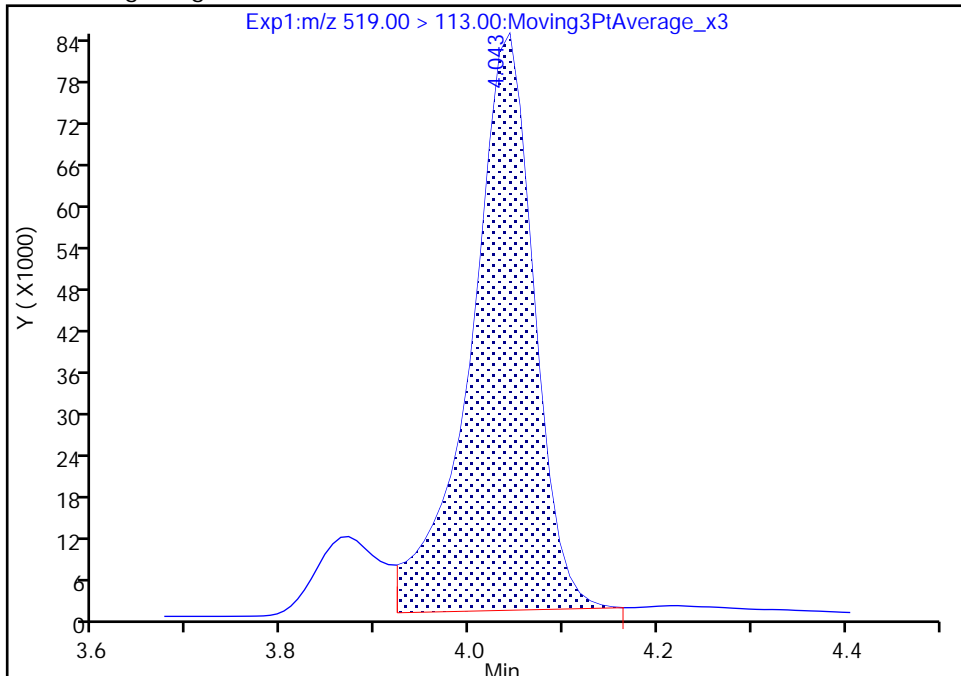
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

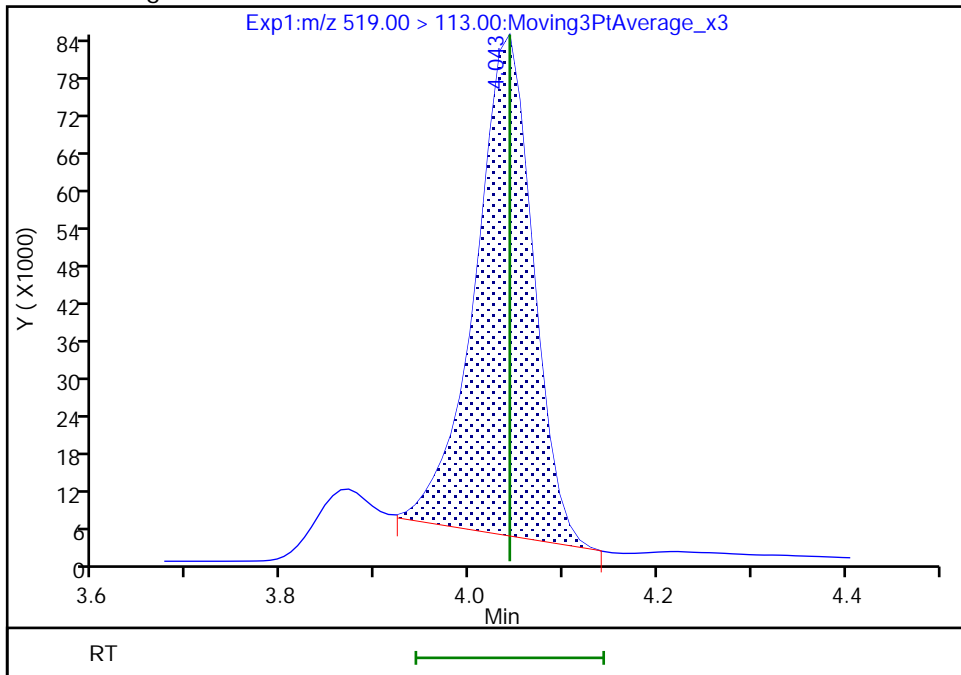
RT: 4.04
Area: 388685
Amount: 1.964287
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 343340
Amount: 1.736308
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:46
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

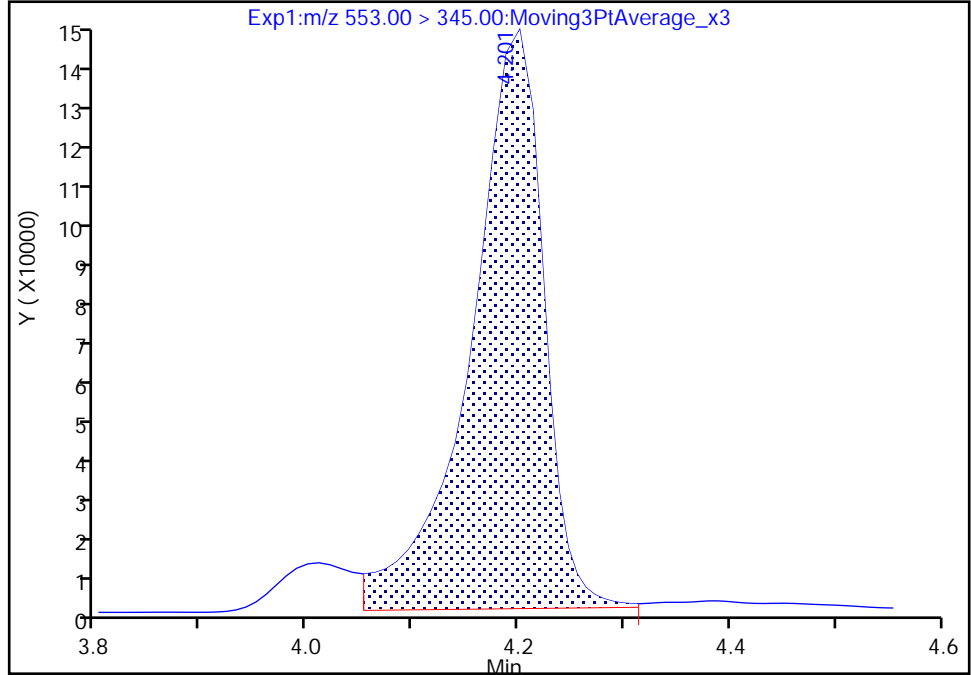
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV_2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

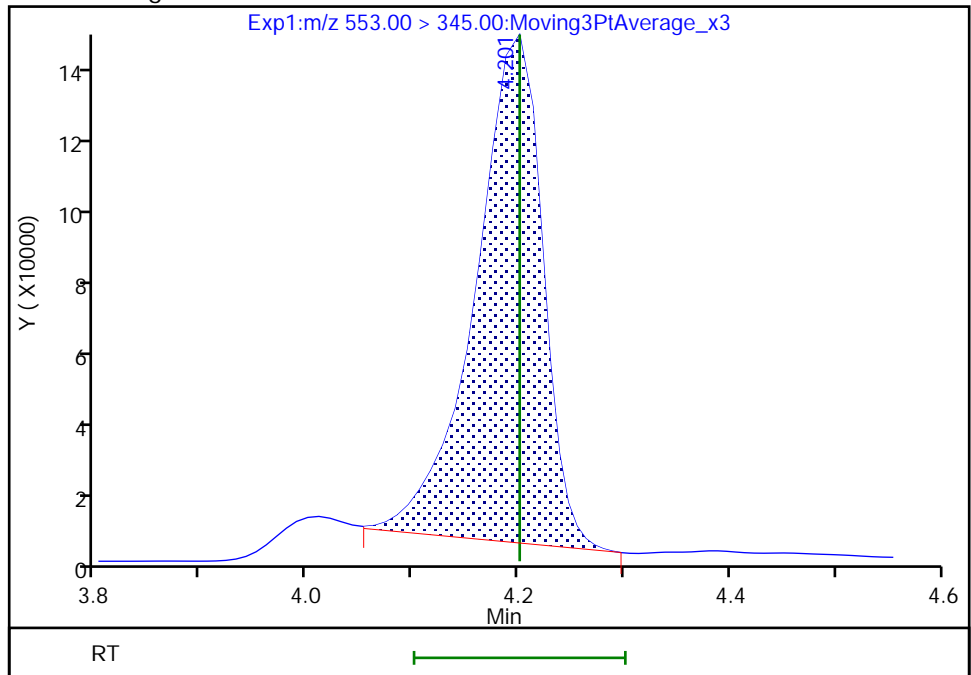
RT: 4.20
Area: 705928
Amount: 6.298037
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 632368
Amount: 5.645110
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:51
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

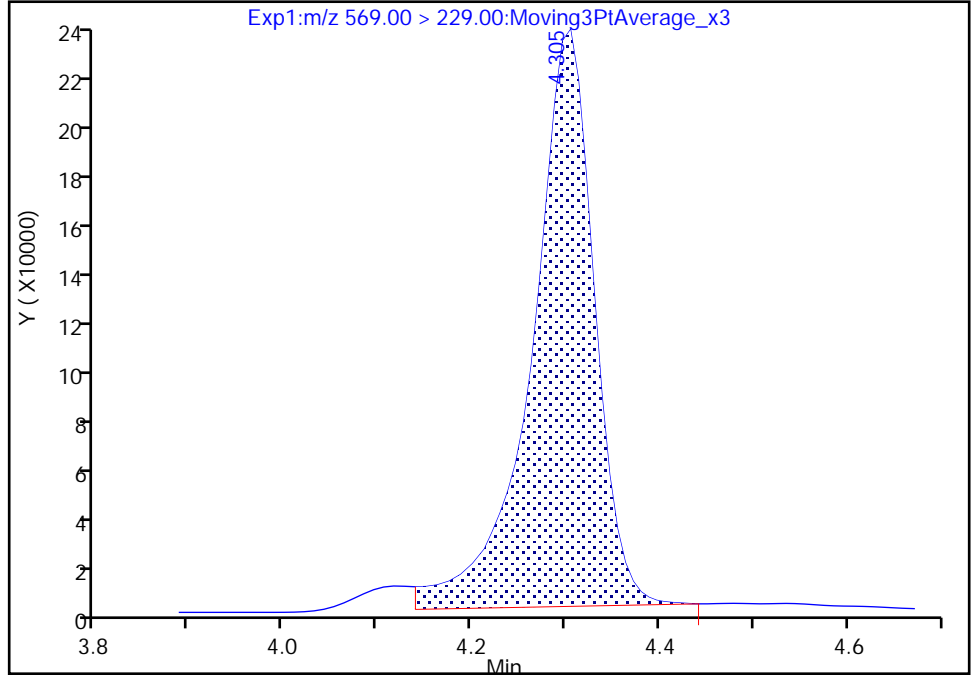
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

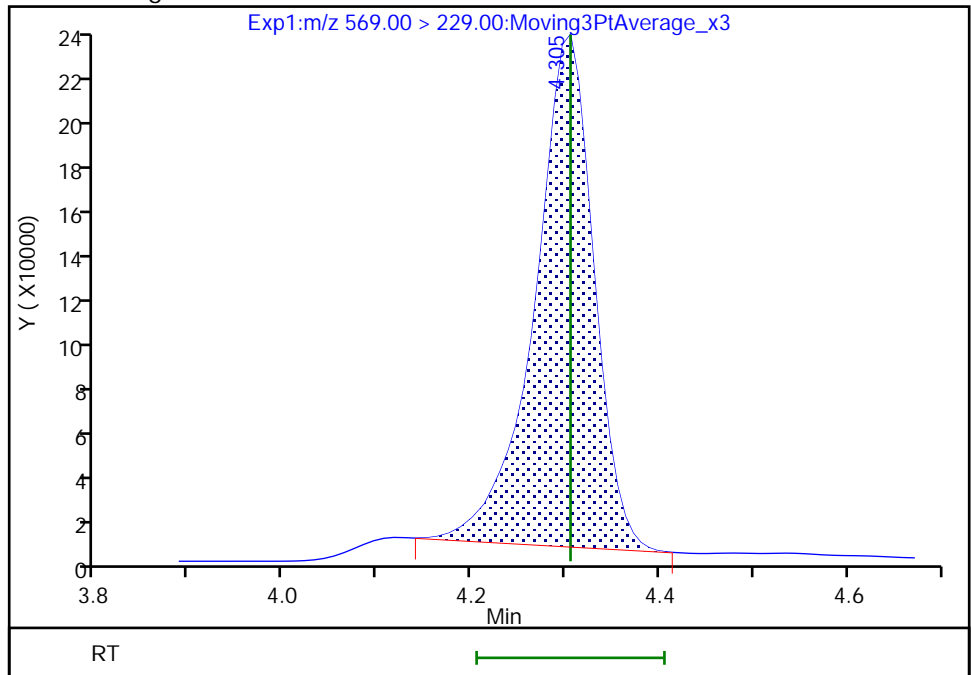
RT: 4.31
Area: 1077972
Amount: 14.251089
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 999269
Amount: 13.206646
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:58
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

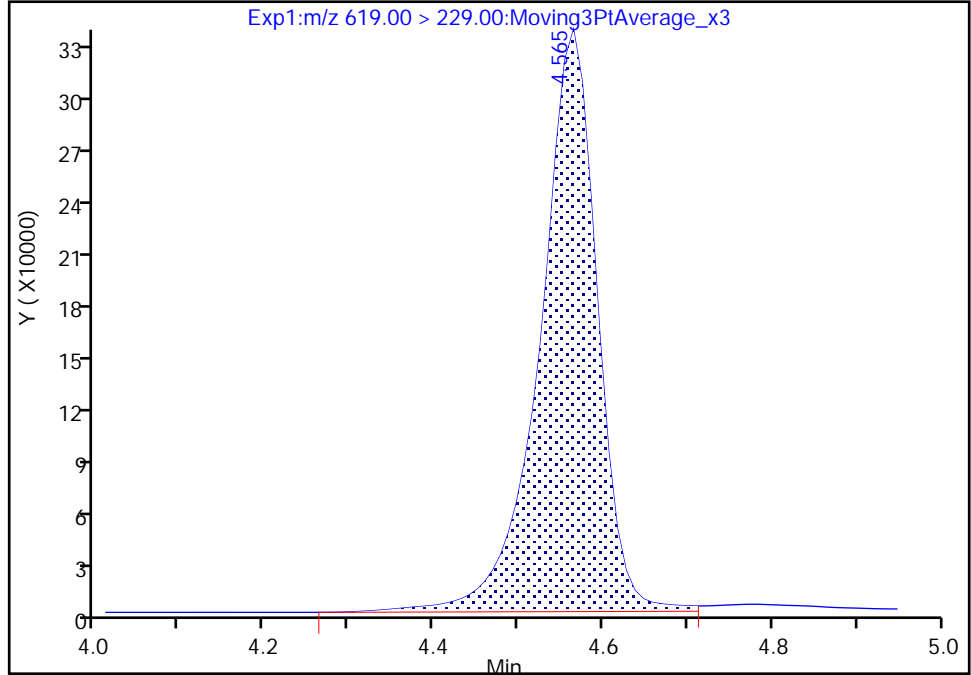
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

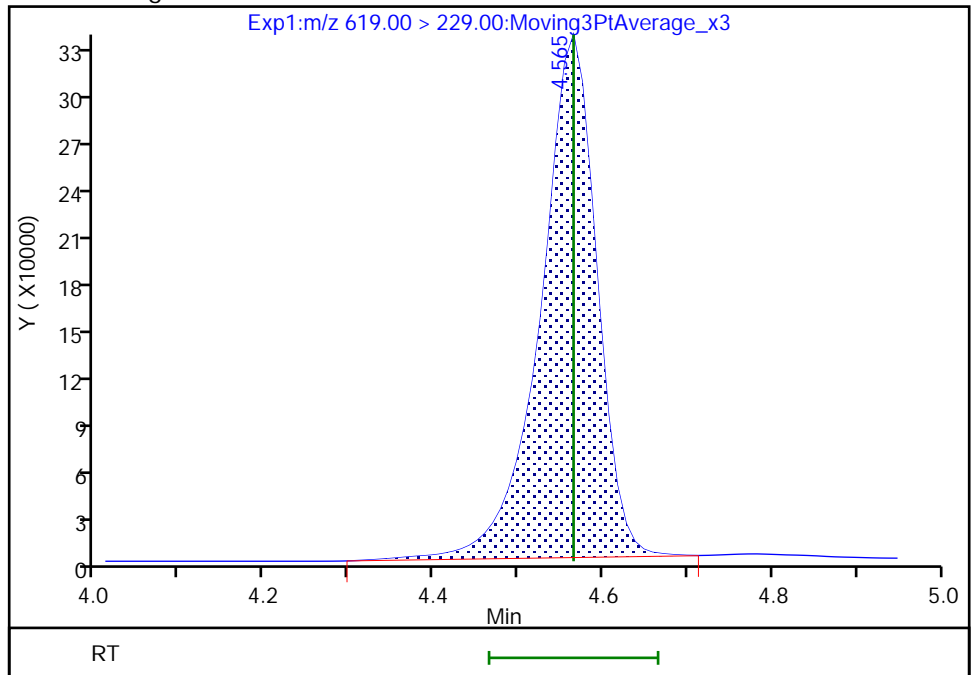
RT: 4.57
Area: 1566468
Amount: 15.494348
Amount Units: ng/ml

Processing Integration Results



RT: 4.57
Area: 1529179
Amount: 15.124579
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:19:18
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

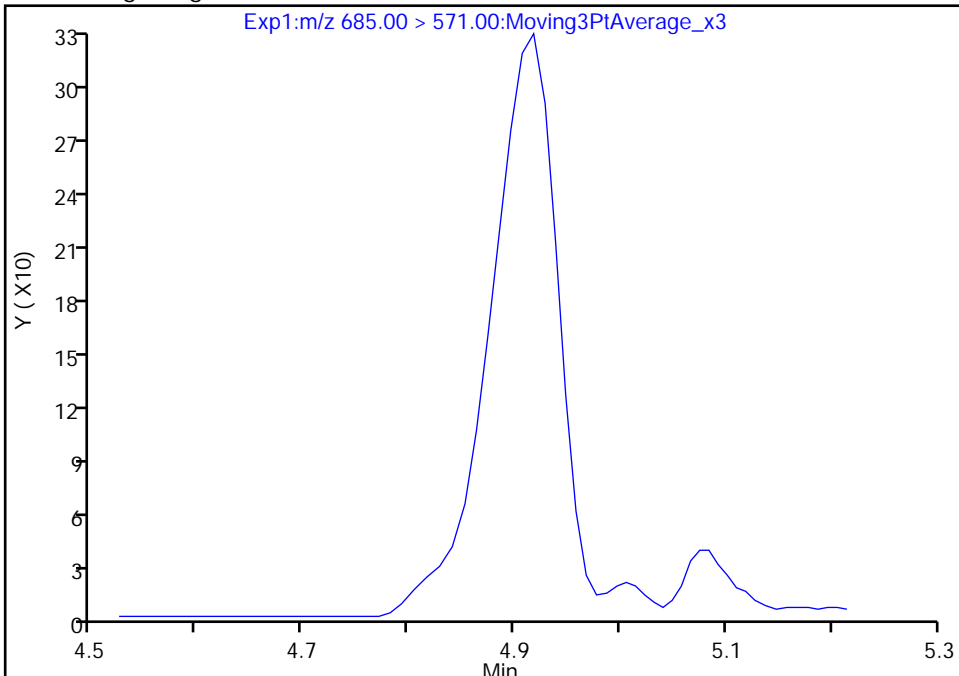
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d		
Injection Date:	09-Aug-2022 02:59:22	Instrument ID:	30733
Lims ID:	CCV 2_CAL5		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	6
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	2

10 BFS_A2B3, CAS: STL02887

Signal: 1

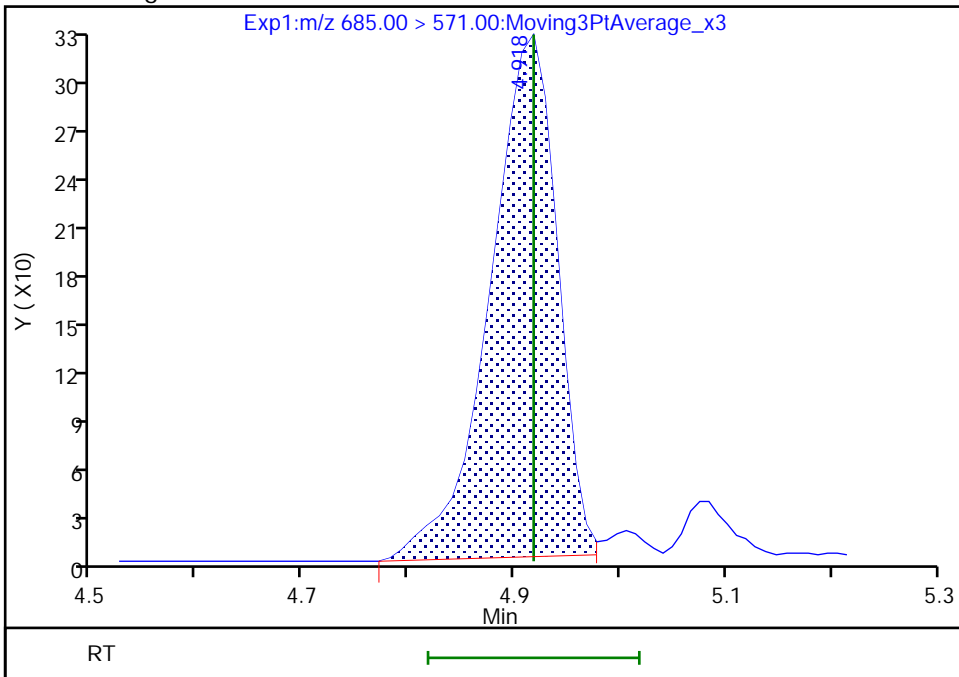
Not Detected
Expected RT: 4.92

Processing Integration Results



Manual Integration Results

RT: 4.92
 Area: 1426
 Amount: 0.246342
 Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 08:46:36
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/15 Calibration Date: 08/09/2022 05:43
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.596		5.37	4.45	20.5	30.0
BFS_A3B	Q2ID		1.714		5.69	4.98	14.3	30.0
BFS_B3	L1ID		0.9306		17.4	15.8	10.1	30.0
BFS_A2B2	L1ID		0.6443		39.4	34.7	13.6	30.0
BFS_A4B	L1ID		2.063		2.92	2.75	6.2	30.0
BFS_AB3	Q2ID		0.8041		39.5	37.2	6.3	30.0
BFS_A3B2	Q2ID		1.573		7.31	6.55	11.6	30.0
BFS_B4	L1ID		0.4869		9.22	8.64	6.7	30.0
BFS_A2B3	Q2ID		0.0506		0.776	0.655	18.5	30.0
13C3 HFPO-DA	Ave	0.2143	0.2060		4.81	5.00	-3.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-15.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 05:43:11 ALS Bottle#: 7 Worklist Smp#: 15
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:47 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:46:57

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.955	3.961	-0.006	0.903	863876	5.37	121	4631
2 BFS_A3B	519.00 > 113.00	4.037	4.043	-0.006	0.922	1036582	5.69	114	155
3 BFS_B3	553.00 > 345.00	4.194	4.201	-0.007	0.958	1792426	17.4	110	136
4 BFS_A2B2	569.00 > 229.00	4.294	4.305	-0.011	0.981	2718010	39.4	114	161
D 6 13C3 HFPO-DA	332.00 > 287.00	4.377	4.389	-0.012	0.878	607703	4.81	96.2	278
5 BFS_A4B	585.00 > 113.00	4.386	4.389	-0.003	1.002	689780	2.92	106	179
7 BFS_AB3	619.00 > 229.00	4.562	4.565	-0.003	1.042	3635171	39.5	106	214
8 BFS_A3B2	635.00 > 113.00	4.655	4.658	-0.003	1.063	1251950	7.31	112	208
9 BFS_B4	669.00 > 461.00	4.791	4.793	-0.002	1.095	511519	9.22	107	209
10 BFS_A2B3	685.00 > 571.00	4.895	4.918	-0.023	1.118	4031	0.7759	118	124 M
* 11 13C2 PFOA	415.00 > 370.00	4.986	4.997	-0.011		2949433	5.00		310

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-15.d

Injection Date: 09-Aug-2022 05:43:11

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 15

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

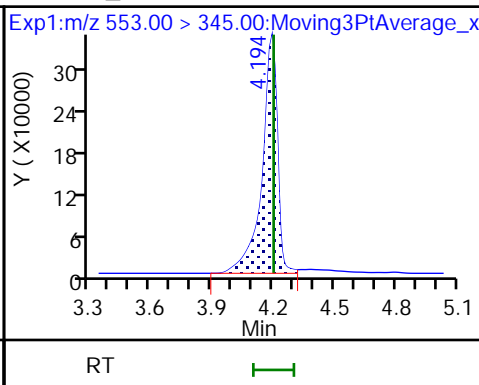
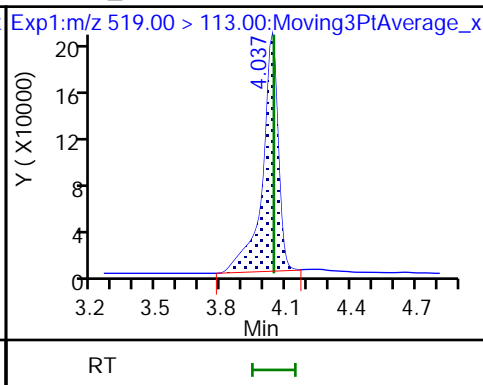
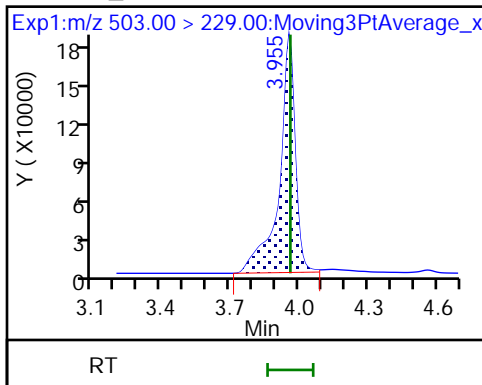
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

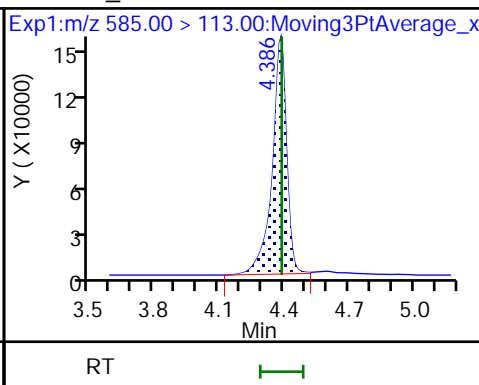
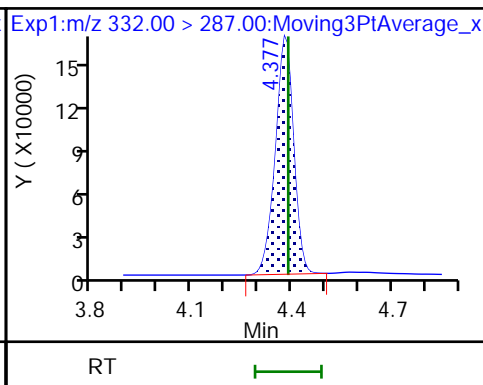
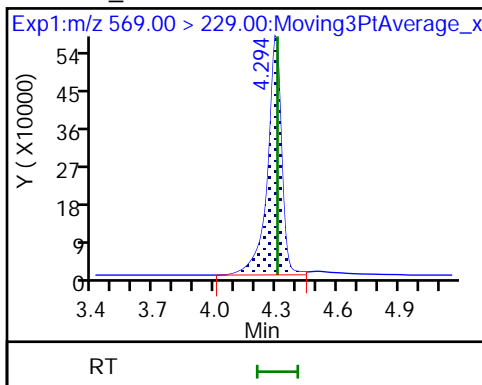
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

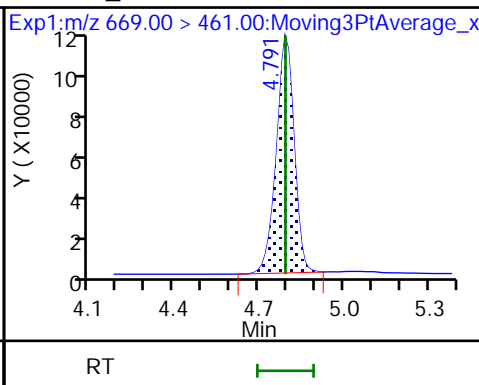
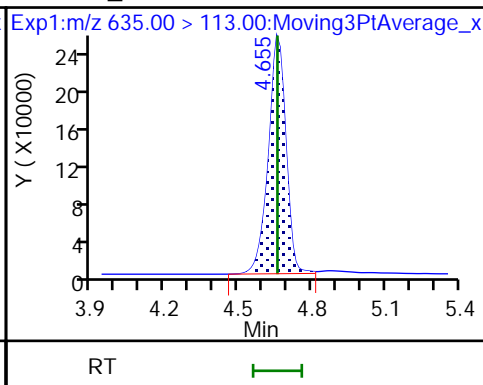
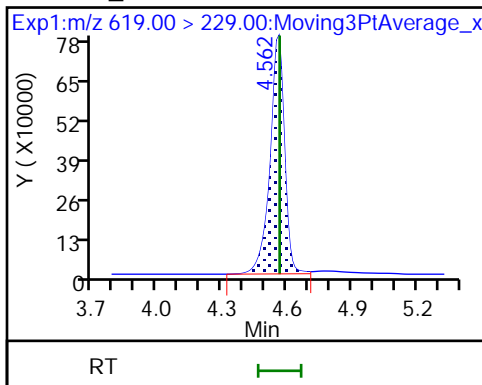
5 BFS_A4B



7 BFS_AB3

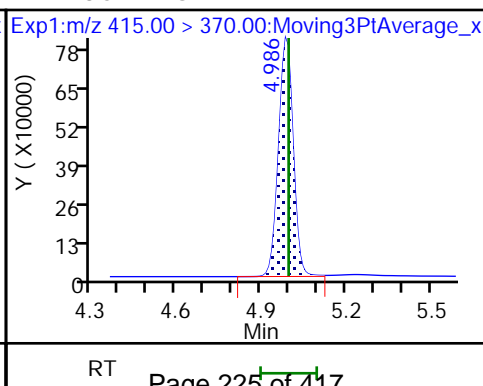
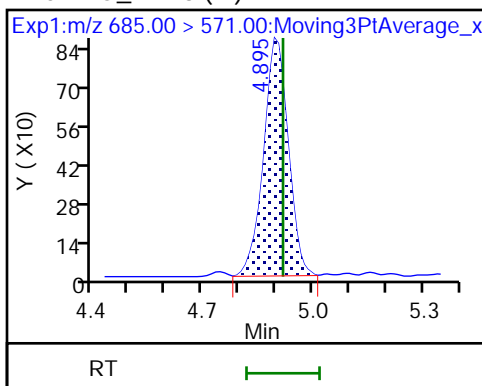
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

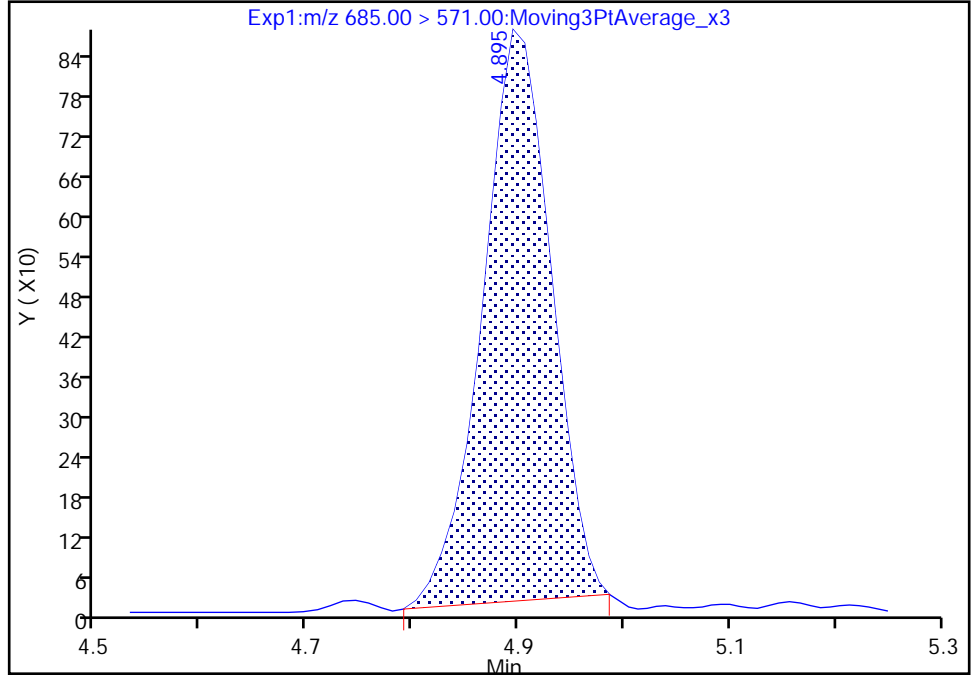
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-15.d
Injection Date: 09-Aug-2022 05:43:11 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 15
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

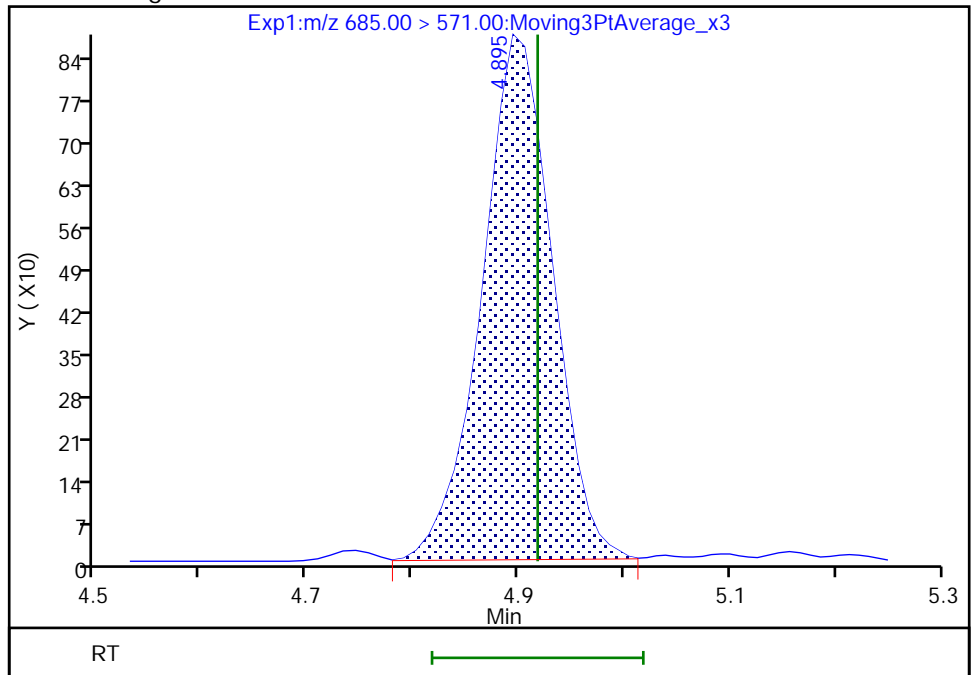
RT: 4.89
Area: 3854
Amount: 0.741648
Amount Units: ng/ml

Processing Integration Results



RT: 4.89
Area: 4031
Amount: 0.775921
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:46:55
Audit Action: Manually Integrated

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/18 Calibration Date: 08/09/2022 06:20
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-18.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.478		9.88	8.91	10.9	30.0
BFS_A3B	Q2ID		1.607		10.6	9.95	6.3	30.0
BFS_B3	L1ID		0.9218		34.5	31.7	8.9	30.0
BFS_A2B2	L1ID		0.6046		74.0	69.4	6.6	30.0
BFS_A4B	L1ID		1.946		5.51	5.50	0.1	30.0
BFS_AB3	Q2ID		0.7636		75.7	74.4	1.8	30.0
BFS_A3B2	Q2ID		1.494		13.9	13.1	6.2	30.0
BFS_B4	L1ID		0.4946		18.7	17.3	8.4	30.0
BFS_A2B3	Q2ID		0.0444		1.36	1.31	4.1	30.0
13C3 HFPO-DA	Ave	0.2143	0.2164		5.05	5.00	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d
 Lims ID: CCV 4_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 06:20:57 ALS Bottle#: 8 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:45 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:47:29

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.952	3.961	-0.009	0.902	1731661	9.88	111	5217	M
2 BFS_A3B									M
519.00 > 113.00	4.033	4.043	-0.010	0.921	2104661	10.6	106	150	M
3 BFS_B3									
553.00 > 345.00	4.190	4.201	-0.011	0.956	3843389	34.5	109	146	
4 BFS_A2B2									
569.00 > 229.00	4.298	4.305	-0.007	0.981	5520868	74.0	107	159	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.381	4.389	-0.008	0.879	657715	5.05	101	296	
5 BFS_A4B									
585.00 > 113.00	4.381	4.389	-0.008	1.000	1408209	5.51	100	175	
7 BFS_AB3									
619.00 > 229.00	4.556	4.565	-0.009	1.040	7472636	75.7	102	193	
8 BFS_A3B2									
635.00 > 113.00	4.649	4.658	-0.009	1.061	2574018	13.9	106	207	
9 BFS_B4									
669.00 > 461.00	4.793	4.793	0.0	1.094	1124895	18.7	108	235	
10 BFS_A2B3									M
685.00 > 571.00	4.896	4.918	-0.022	1.117	7657	1.36	104	94.6	M
* 11 13C2 PFOA									
415.00 > 370.00	4.987	4.997	-0.010		3039669	5.00		333	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d

Injection Date: 09-Aug-2022 06:20:57

Instrument ID: 30733

Lims ID: CCV 4_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 18

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

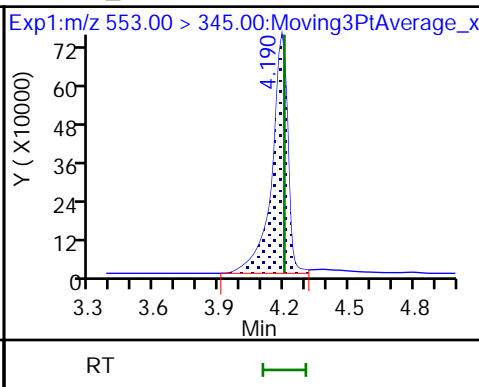
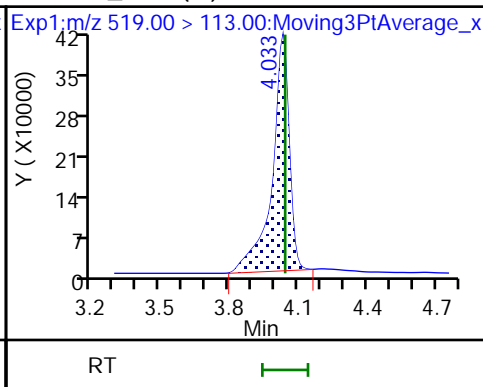
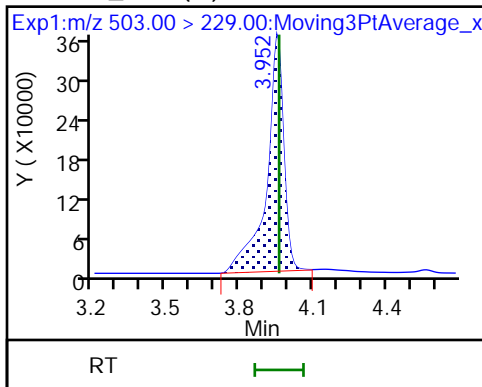
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

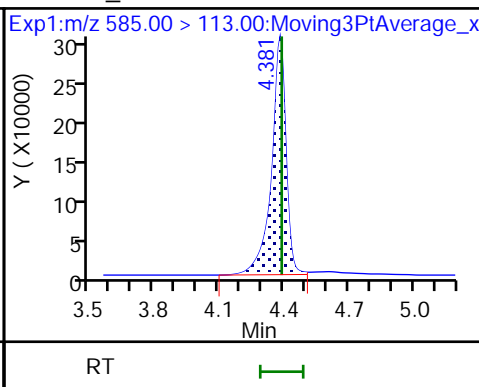
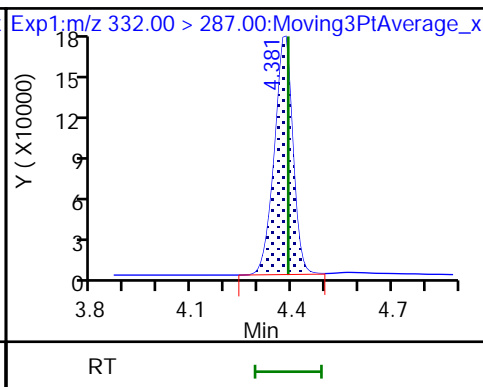
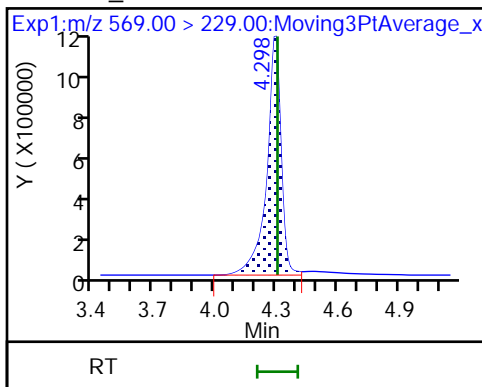
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

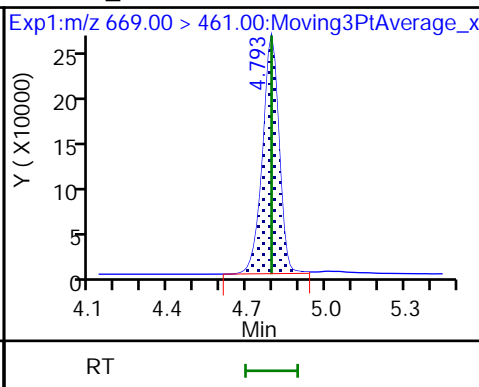
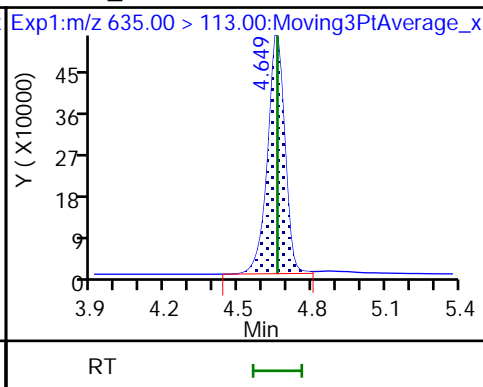
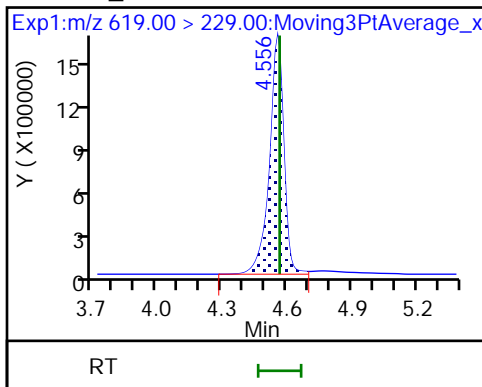
5 BFS_A4B



7 BFS_AB3

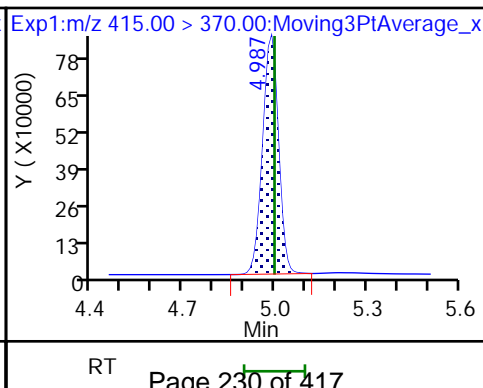
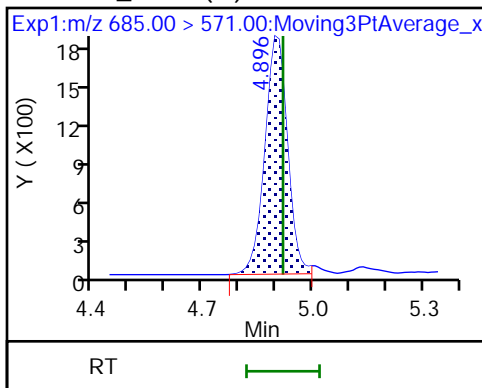
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

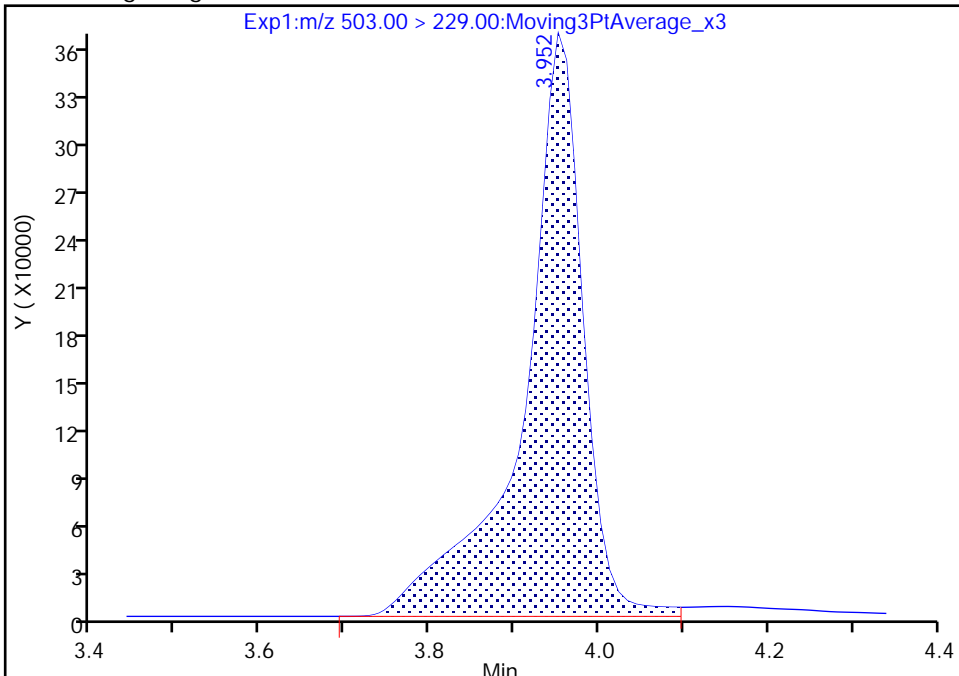
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d
Injection Date: 09-Aug-2022 06:20:57 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

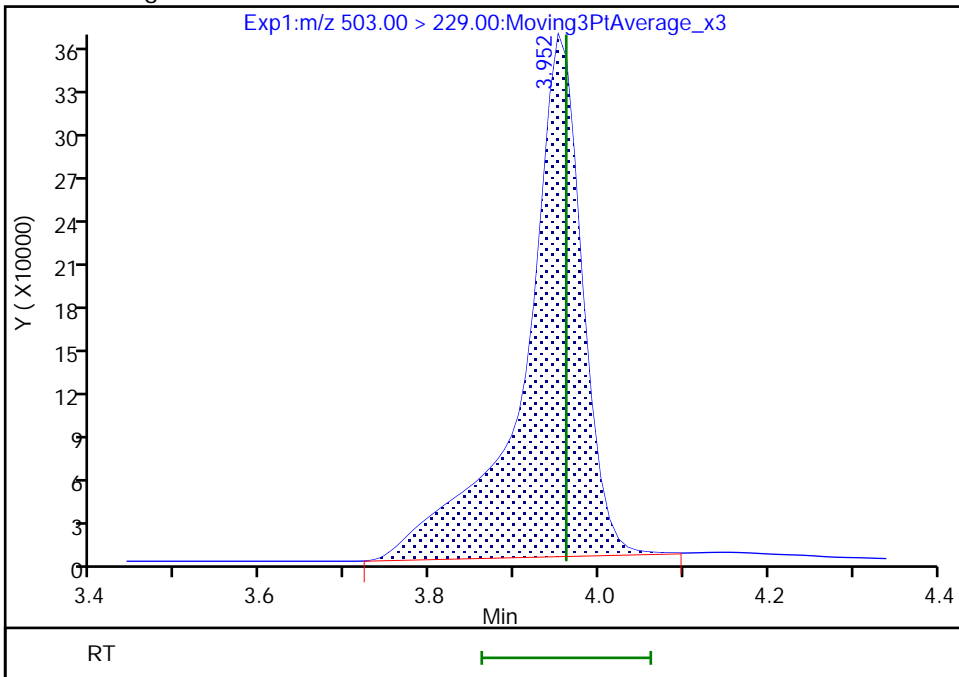
RT: 3.95
Area: 1789311
Amount: 10.204112
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 1731661
Amount: 9.879752
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:47:07
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

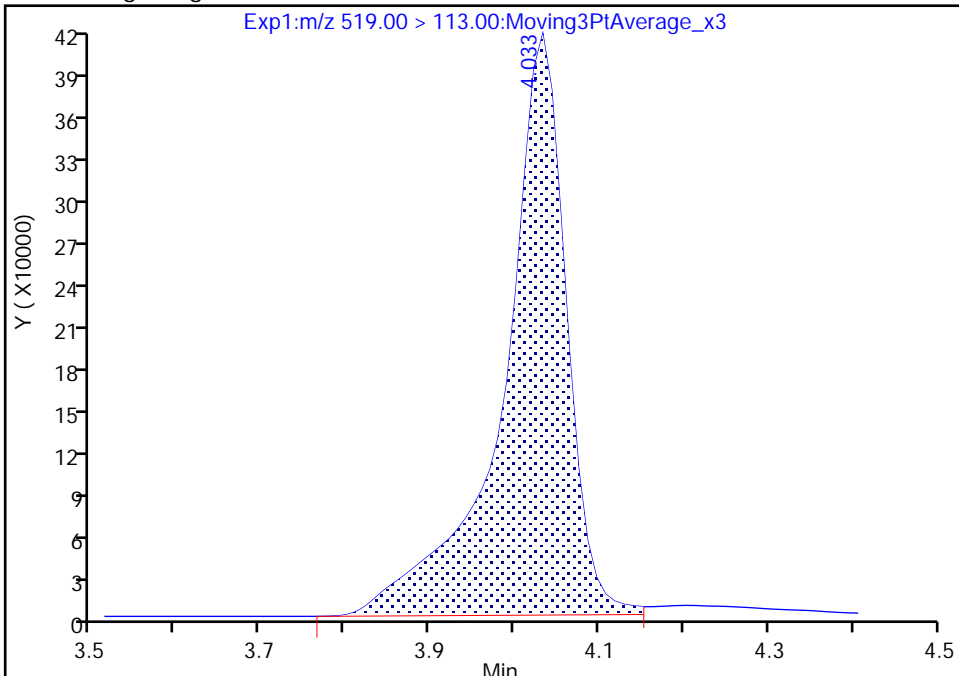
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d		
Injection Date:	09-Aug-2022 06:20:57	Instrument ID:	30733
Lims ID:	CCV 4_CAL7		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	8
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	18

2 BFS_A3B, CAS: STL02880

Signal: 1

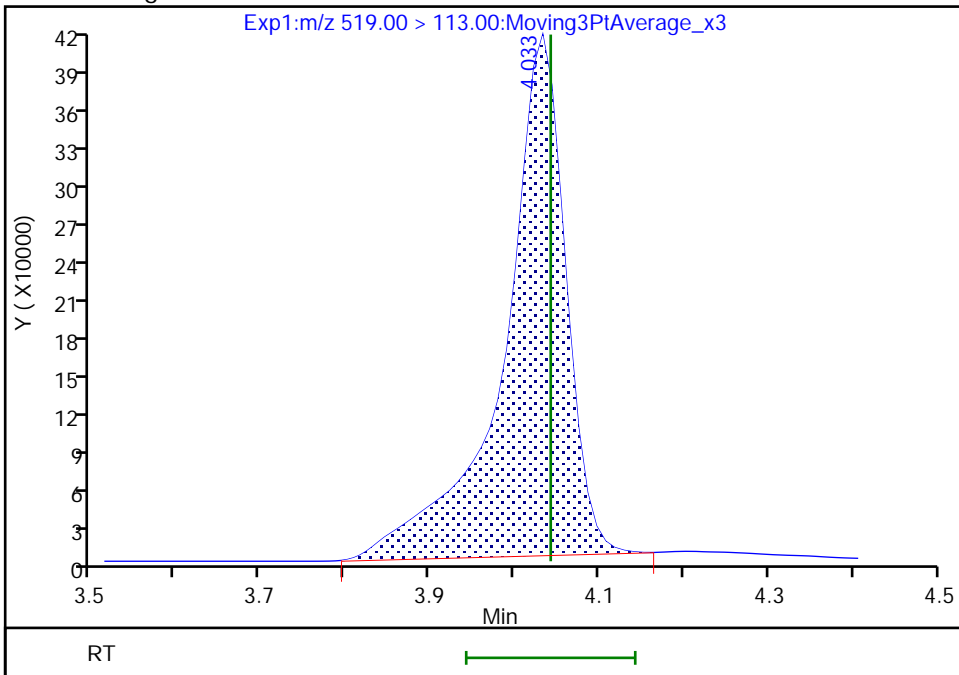
RT: 4.03
 Area: 2159184
 Amount: 10.850558
 Amount Units: ng/ml

Processing Integration Results



RT: 4.03
 Area: 2104661
 Amount: 10.581422
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:47:12
 Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

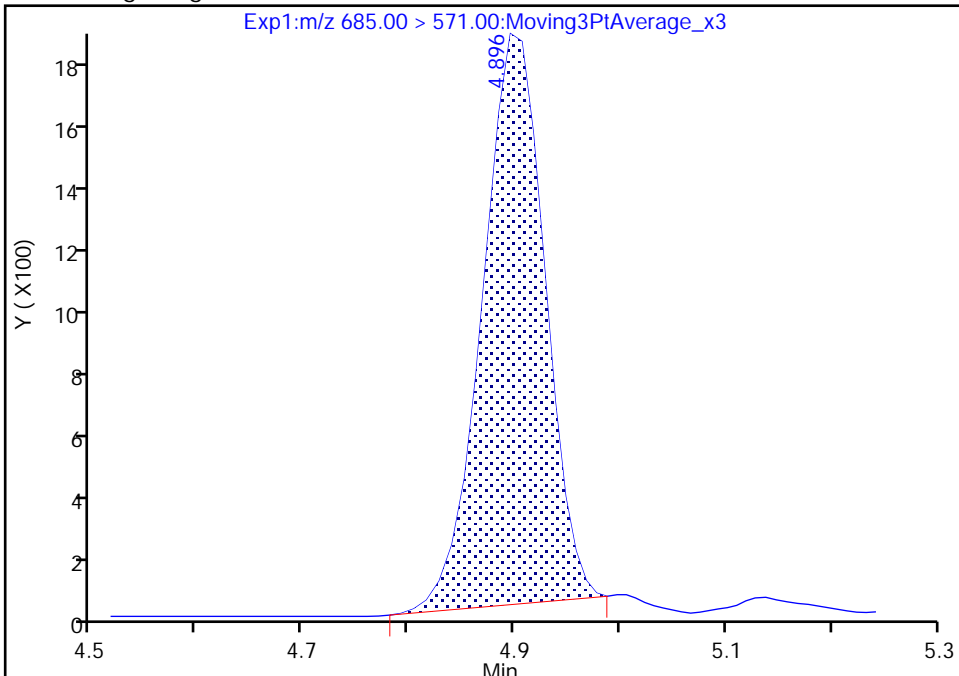
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d
Injection Date: 09-Aug-2022 06:20:57 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

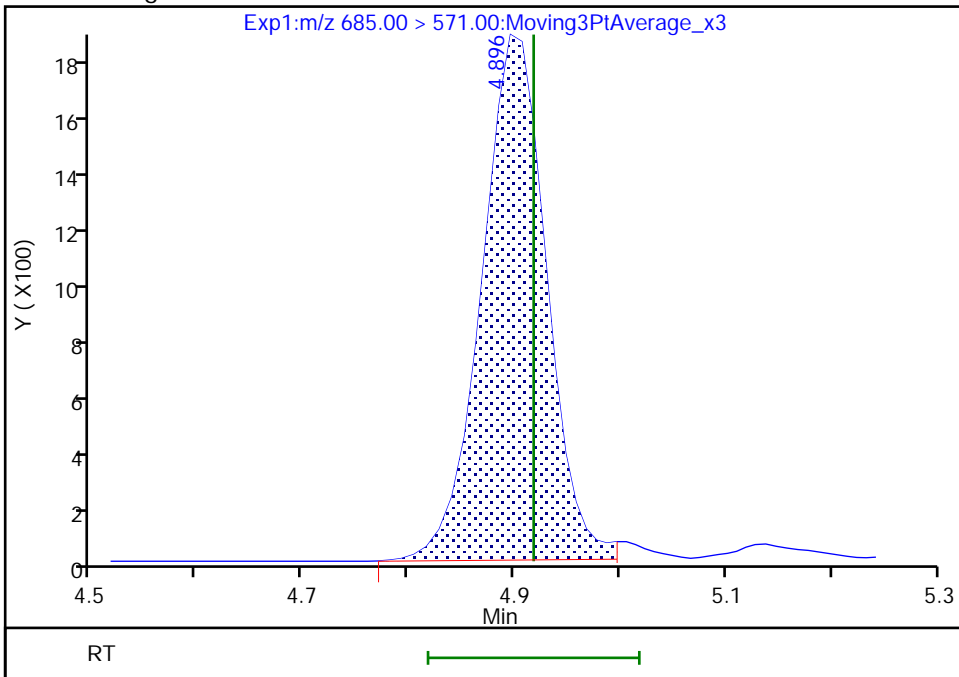
RT: 4.90
Area: 7259
Amount: 1.292639
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 7657
Amount: 1.363434
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:47:21
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-284701/1 Calibration Date: 08/11/2022 02:46
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG10BFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.687		0.0589	0.0445	32.3	50.0
BFS_A3B	Q2ID		2.097		0.0746	0.0498	49.9	50.0
BFS_B3	L1ID		1.075		0.233	0.158	47.2	50.0
BFS_A2B2	L1ID		0.7814		0.424	0.347	22.3	50.0
BFS_A4B	L1ID		2.508		0.0395	0.0275	43.7	50.0
BFS_AB3	Q2ID		1.016		0.508	0.372	36.7	50.0
BFS_A3B2	Q2ID		2.044		0.0990	0.0655	51.2*	50.0
BFS_B4	L1ID		0.6202		0.111	0.0864	28.4	50.0
BFS_A2B3	Q2ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2143	0.2105		4.91	5.00	-1.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 11-Aug-2022 02:46:23 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0063844-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 11-Aug-2022 09:57:23 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:34:17

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.962	3.962	0.0	0.902	9779	0.0589	132	275	M
2 BFS_A3B									M
519.00 > 113.00	4.045	4.045	0.0	0.921	13585	0.0746	150	131	M
3 BFS_B3									M
553.00 > 345.00	4.203	4.203	0.0	0.957	22174	0.2333	147	117	M
4 BFS_A2B2									
569.00 > 229.00	4.307	4.307	0.0	0.981	35299	0.4244	122	154	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.391	4.391	0.0	0.879	650744	4.91	98.2	272	
5 BFS_A4B									M
585.00 > 113.00	4.391	4.391	0.0	1.000	8977	0.0395	144	105	M
7 BFS_AB3									
619.00 > 229.00	4.567	4.567	0.0	1.040	49208	0.5084	137	233	
8 BFS_A3B2									M
635.00 > 113.00	4.674	4.674	0.0	1.065	17417	0.0990	151	167	M
9 BFS_B4									
669.00 > 461.00	4.805	4.805	0.0	1.094	6978	0.1110	128	91.1	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.0		3091607	5.00		340	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-01.d

Injection Date: 11-Aug-2022 02:46:23

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

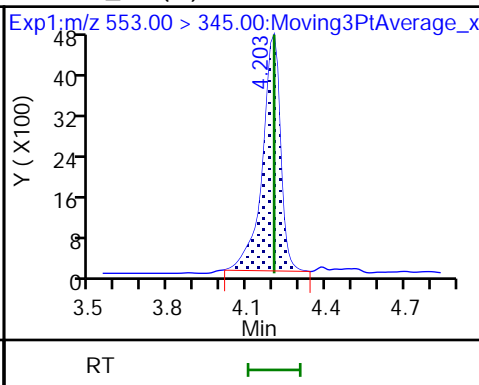
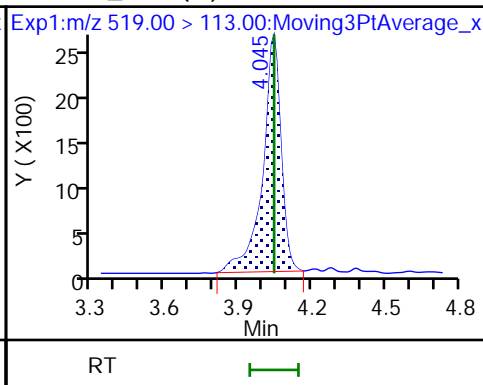
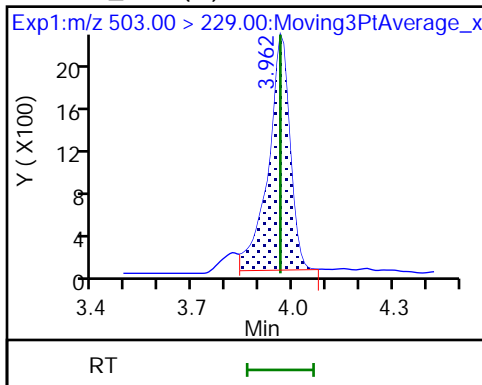
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

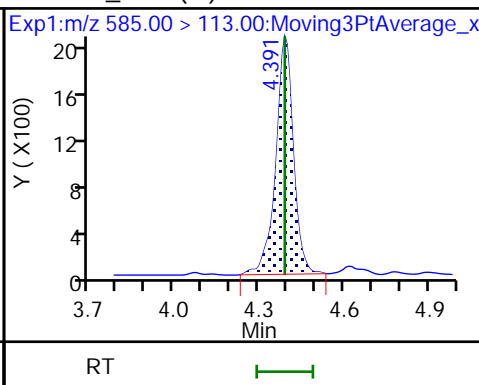
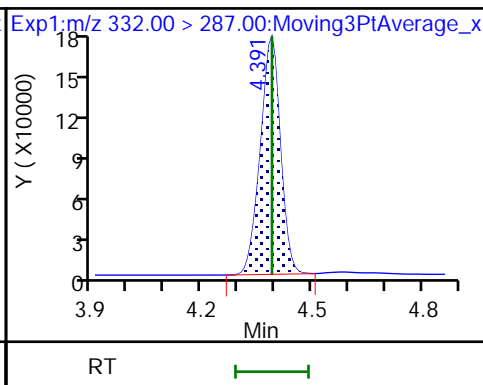
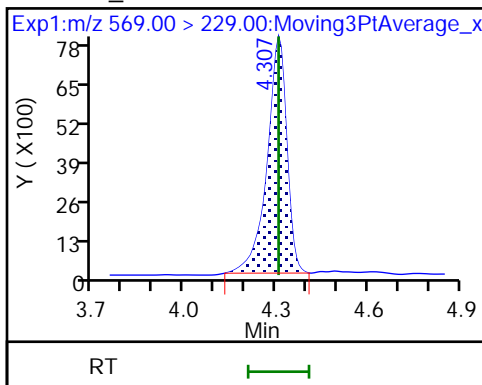
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

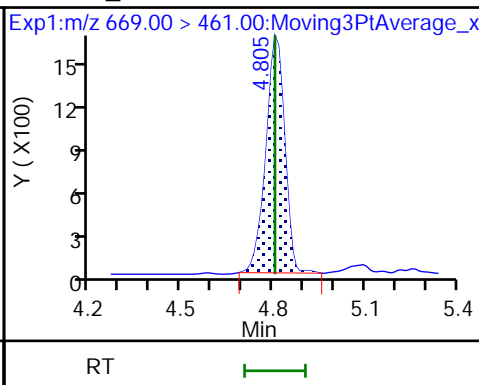
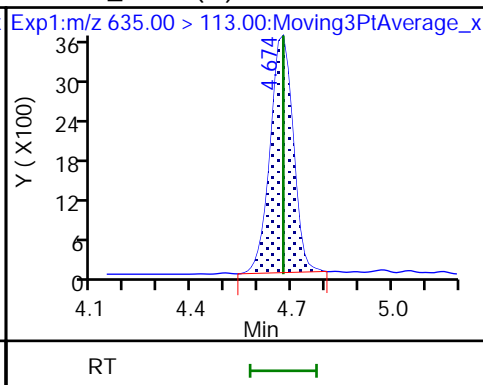
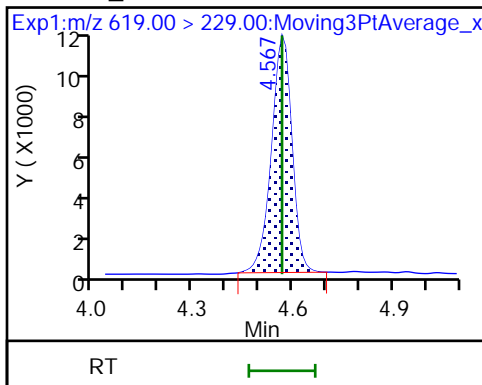
5 BFS_A4B (M)



7 BFS_AB3

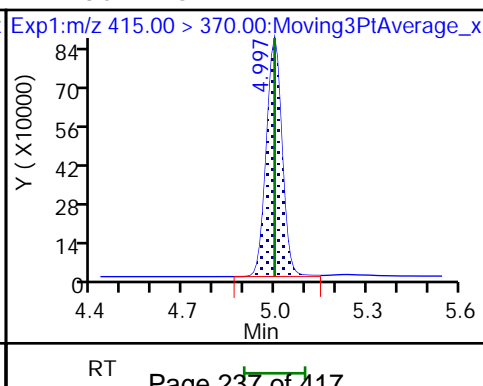
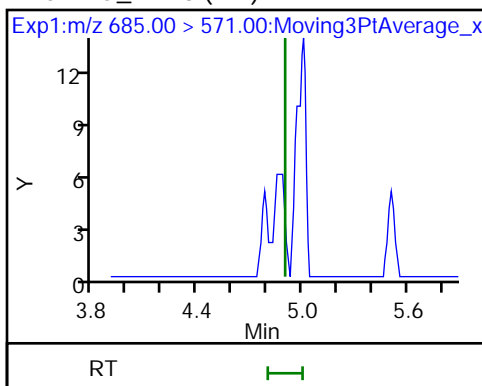
8 BFS_A3B2 (M)

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

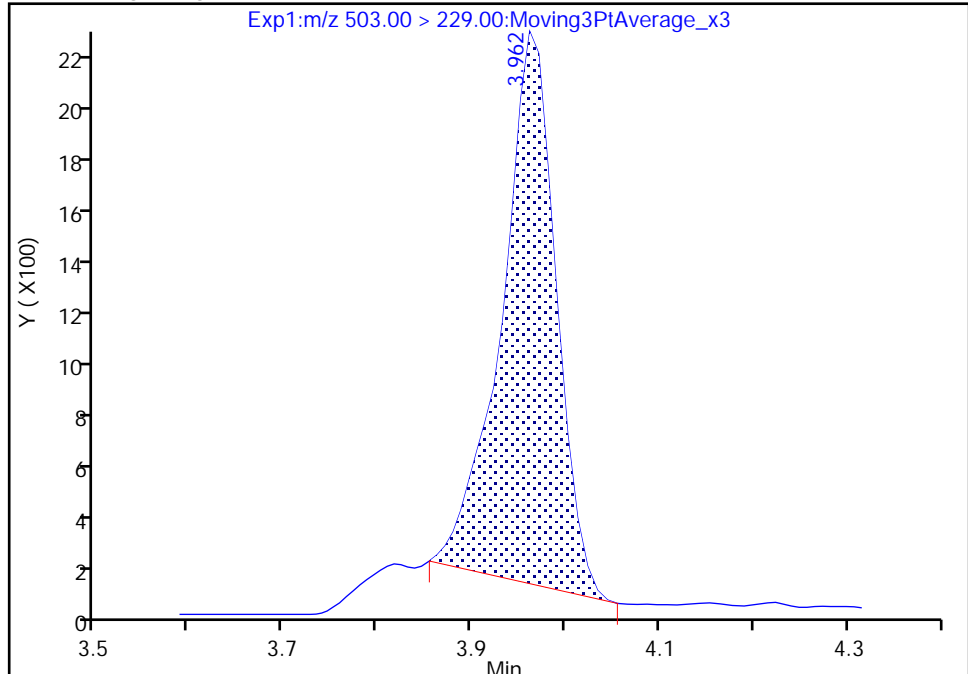
Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-01.d
Injection Date: 11-Aug-2022 02:46:23 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

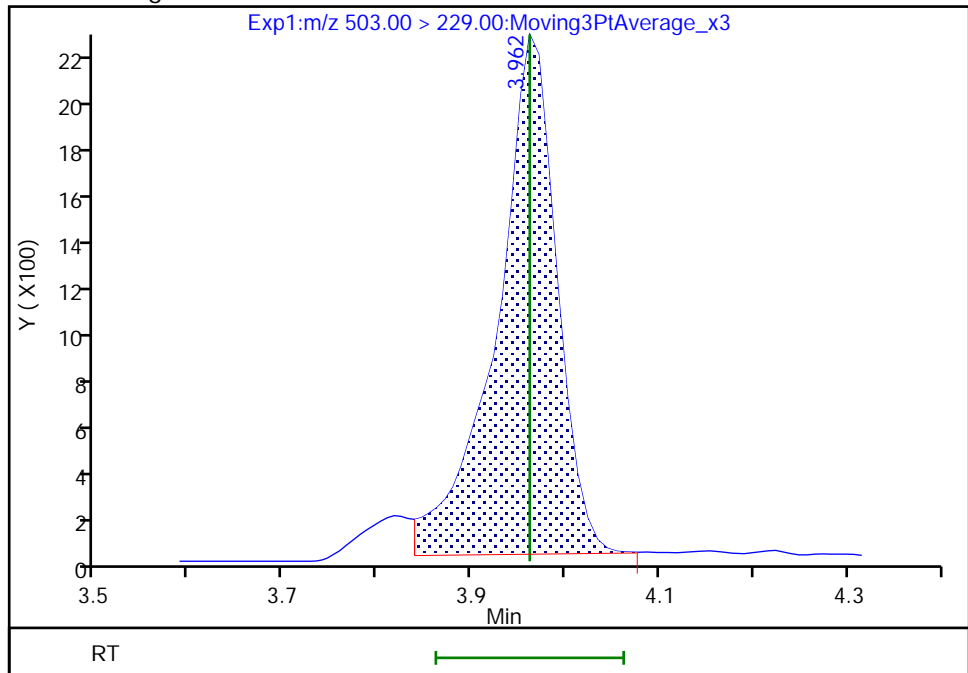
RT: 3.96
Area: 8494
Amount: 0.051411
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 9779
Amount: 0.058919
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 11-Aug-2022 06:33:31
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

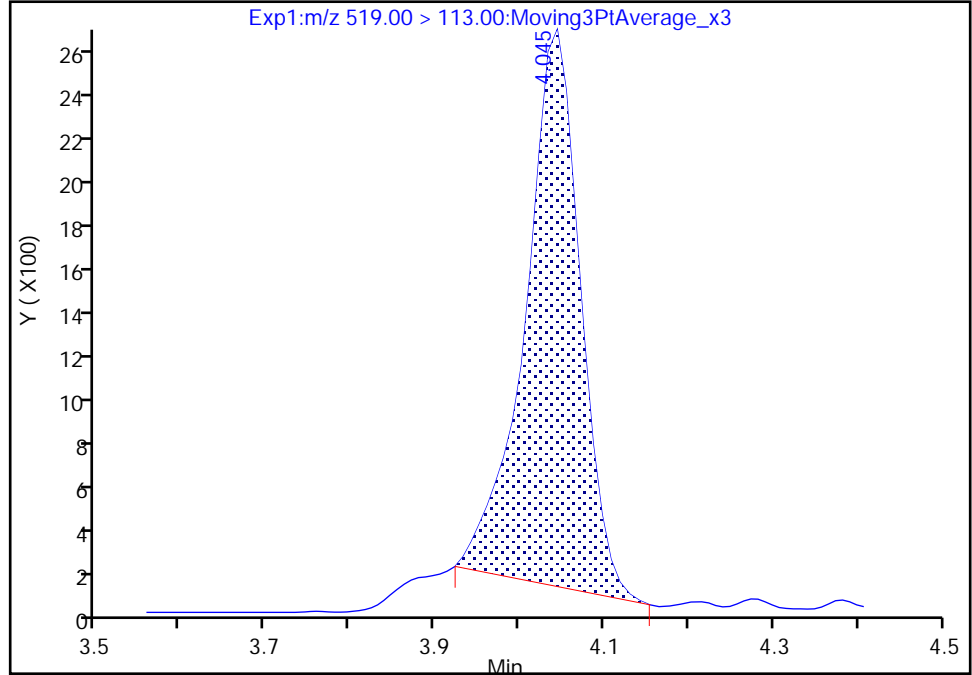
Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-01.d
Injection Date: 11-Aug-2022 02:46:23 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

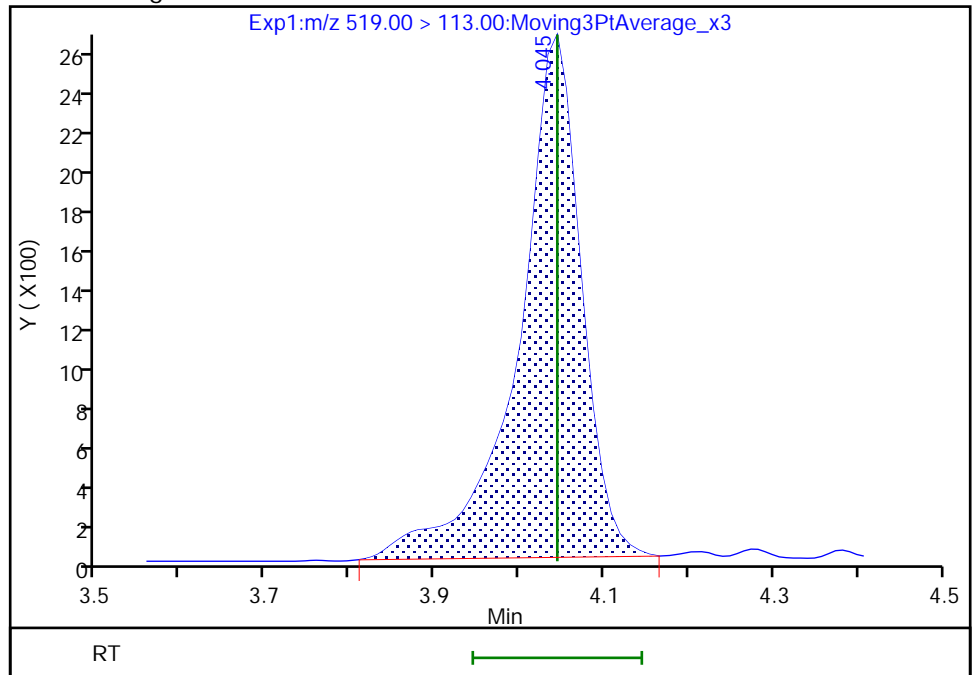
RT: 4.04
Area: 11454
Amount: 0.063603
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 13585
Amount: 0.074619
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 11-Aug-2022 06:33:35
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

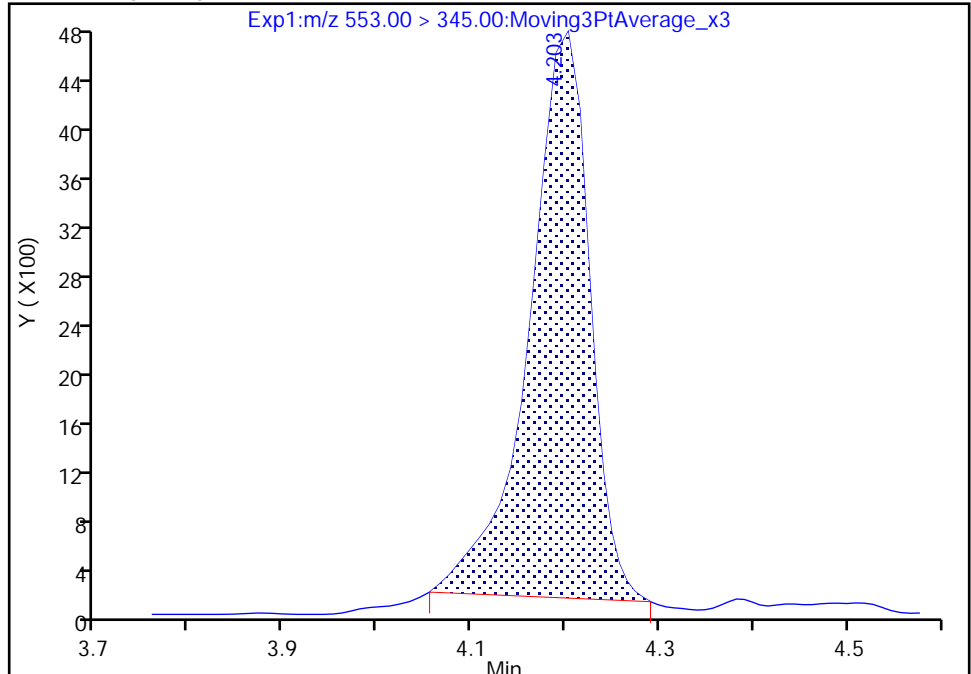
Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-01.d
Injection Date: 11-Aug-2022 02:46:23 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

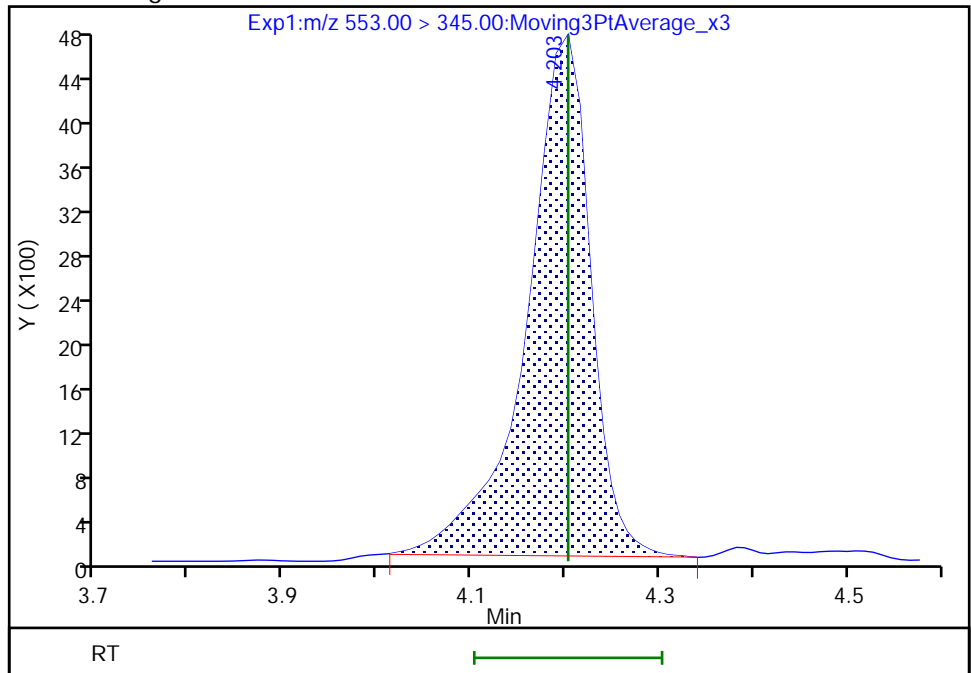
RT: 4.20
Area: 20682
Amount: 0.219759
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 22174
Amount: 0.233294
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 11-Aug-2022 06:33:39
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

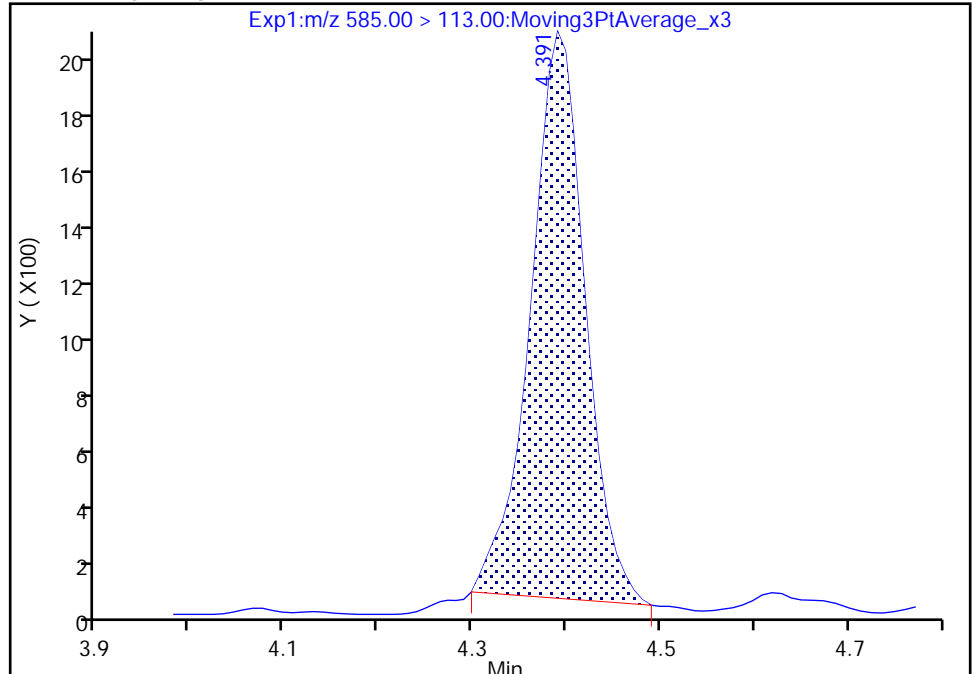
Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-01.d
Injection Date: 11-Aug-2022 02:46:23 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

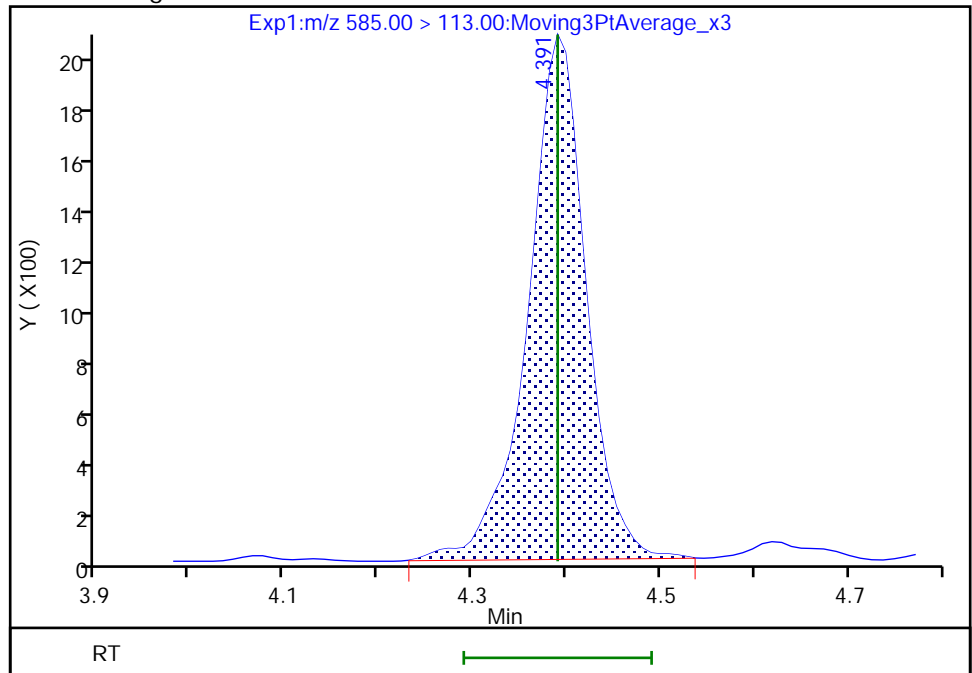
RT: 4.39
Area: 8226
Amount: 0.036558
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 8977
Amount: 0.039524
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 11-Aug-2022 06:33:45
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

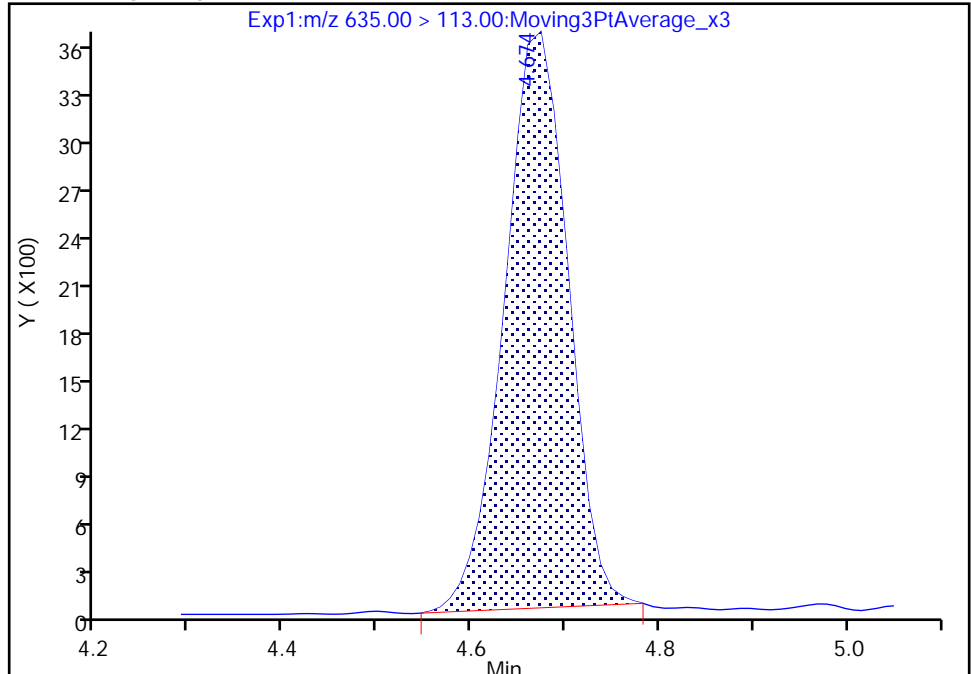
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Injection Date: 11-Aug-2022 02:46:23 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

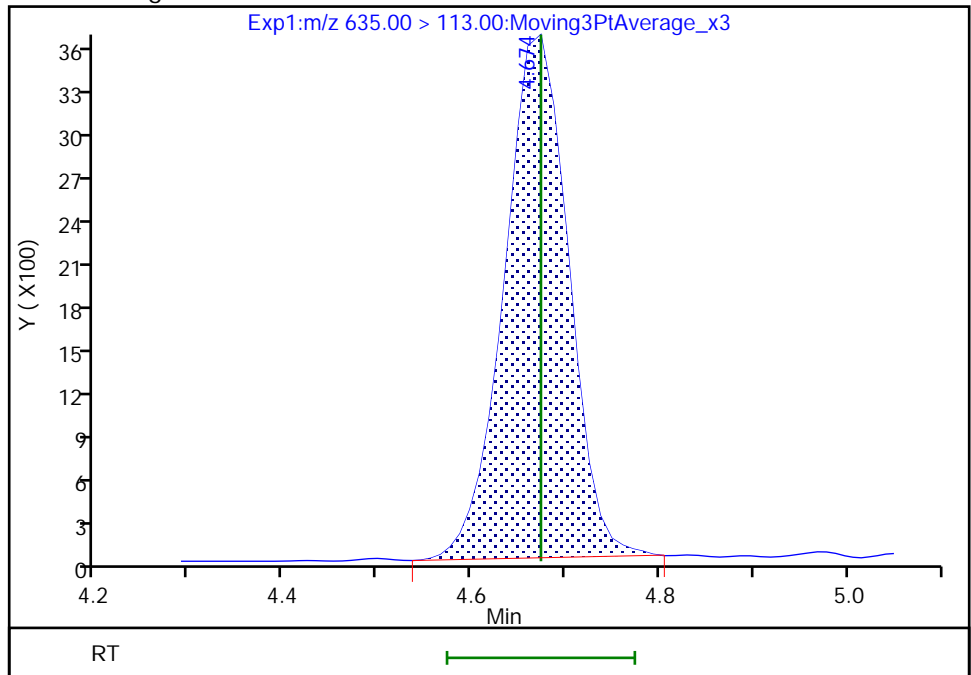
RT: 4.67
Area: 17177
Amount: 0.097715
Amount Units: ng/ml

Processing Integration Results



RT: 4.67
Area: 17417
Amount: 0.099018
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 11-Aug-2022 06:33:59
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284701/16 Calibration Date: 08/11/2022 05:56
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG10BFS-16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.604		5.39	4.45	21.1	30.0
BFS_A3B	Q2ID		1.786		5.93	4.98	19.1	30.0
BFS_B3	L1ID		1.030		19.3	15.8	21.8	30.0
BFS_A2B2	L1ID		0.7029		43.0	34.7	23.9	30.0
BFS_A4B	L1ID		2.285		3.23	2.75	17.6	30.0
BFS_AB3	Q2ID		0.9296		45.8	37.2	23.1	30.0
BFS_A3B2	Q2ID		1.787		8.30	6.55	26.8	30.0
BFS_B4	L1ID		0.6006		11.4	8.64	31.6*	30.0
BFS_A2B3	Q2ID		0.0519		0.796	0.655	21.5	30.0
13C3 HFPO-DA	Ave	0.2143	0.2147		5.01	5.00	0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-16.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Aug-2022 05:56:46 ALS Bottle#: 7 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0063844-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 11-Aug-2022 09:57:24 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:37:34

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.958	3.962	-0.004	0.902	955695	5.39	121	1663
2 BFS_A3B	519.00 > 113.00	4.040	4.045	-0.005	0.921	1189408	5.93	119	61.0
3 BFS_B3	553.00 > 345.00	4.198	4.203	-0.005	0.957	2183756	19.3	122	123
4 BFS_A2B2	569.00 > 229.00	4.302	4.307	-0.005	0.981	3264997	43.0	124	160
D 6 13C3 HFPO-DA	332.00 > 287.00	4.385	4.391	-0.006	0.880	669156	5.01	100	282
5 BFS_A4B	585.00 > 113.00	4.385	4.391	-0.006	1.000	841096	3.23	118	148
7 BFS_AB3	619.00 > 229.00	4.562	4.567	-0.005	1.040	4627430	45.8	123	183
8 BFS_A3B2	635.00 > 113.00	4.655	4.674	-0.019	1.061	1565976	8.30	127	190
9 BFS_B4	669.00 > 461.00	4.791	4.805	-0.014	1.092	694804	11.4	132	247
10 BFS_A2B3	685.00 > 571.00	4.894	4.900	-0.006	1.116	4552	0.7959	122	156
* 11 13C2 PFOA	415.00 > 370.00	4.986	4.997	-0.011		3117285	5.00		323

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-16.d

Injection Date: 11-Aug-2022 05:56:46

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

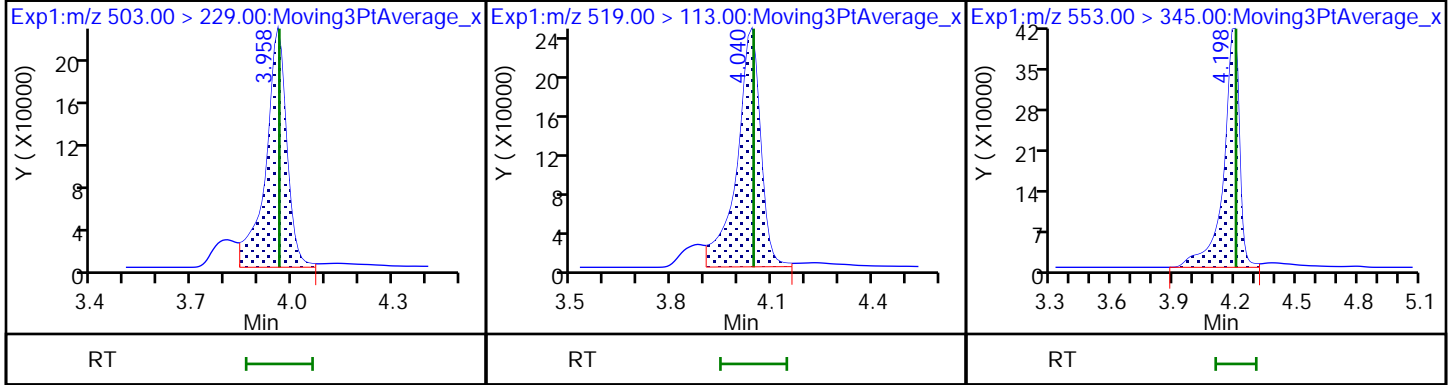
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

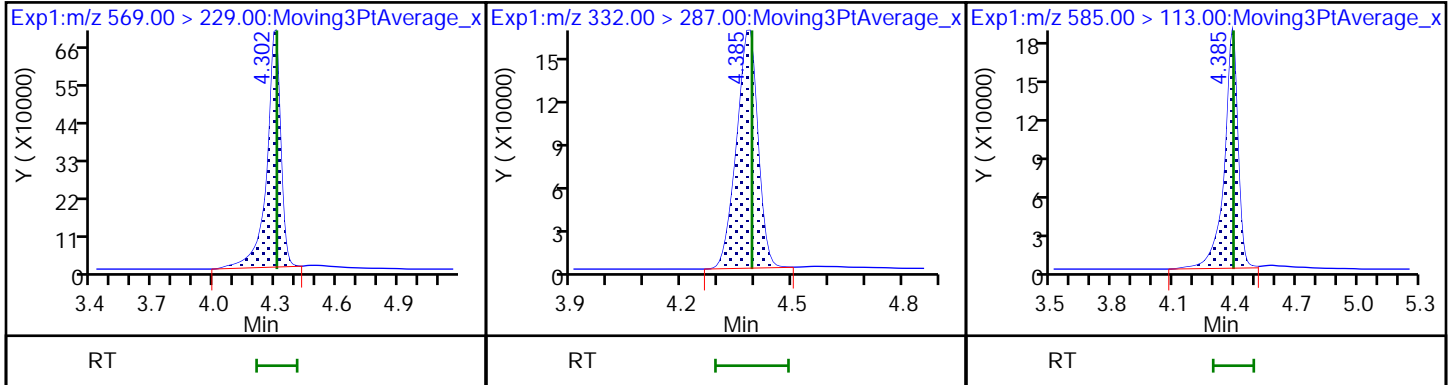
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

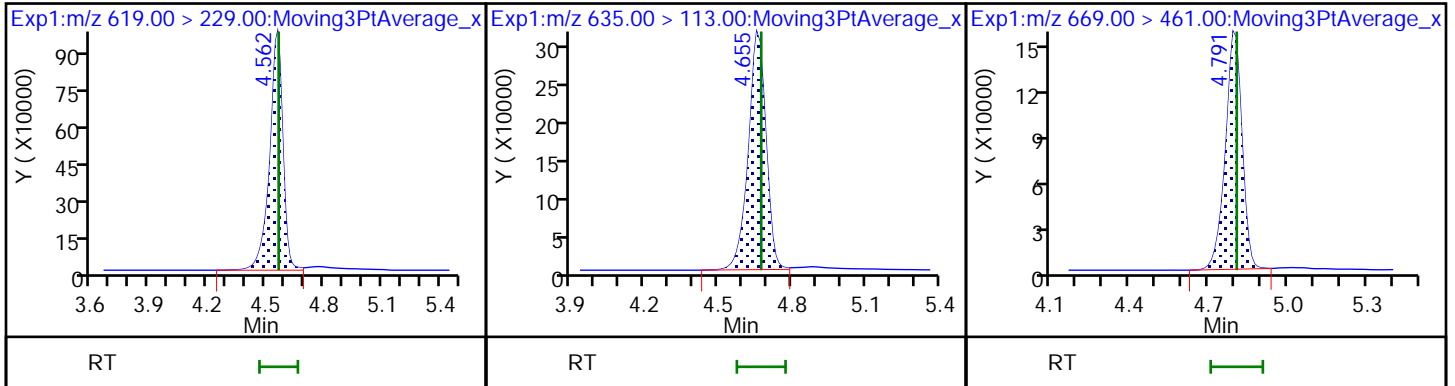
5 BFS_A4B



7 BFS_AB3

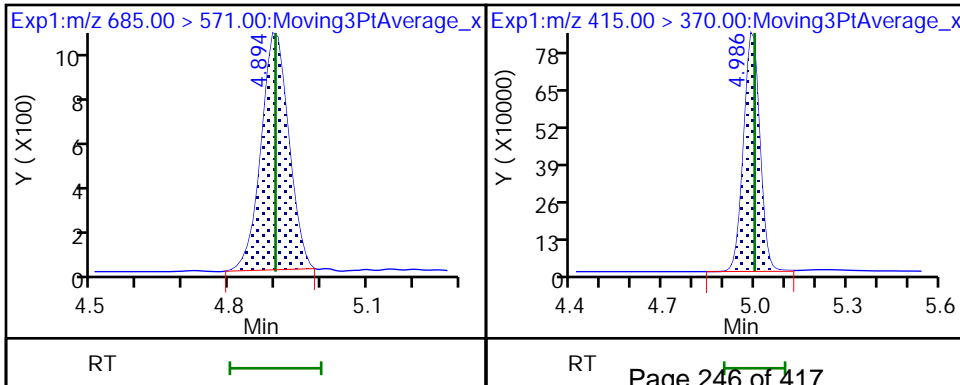
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284701/28 Calibration Date: 08/11/2022 06:47
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG10BFS-28.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.596		10.7	8.91	19.7	30.0
BFS_A3B	Q2ID		1.793		11.8	9.95	18.4	30.0
BFS_B3	L1ID		1.049		39.3	31.7	24.0	30.0
BFS_A2B2	L1ID		0.7097		86.9	69.4	25.2	30.0
BFS_A4B	L1ID		2.403		6.80	5.50	23.6	30.0
BFS_AB3	Q2ID		0.9131		90.8	74.4	22.1	30.0
BFS_A3B2	Q2ID		1.788		16.7	13.1	27.3	30.0
BFS_B4	L1ID		0.6009		22.8	17.3	31.7*	30.0
BFS_A2B3	Q2ID		0.0542		1.66	1.31	26.8	30.0
13C3 HFPO-DA	Ave	0.2143	0.2208		5.15	5.00	3.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-28.d
 Lims ID: CCV 4_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Aug-2022 06:47:12 ALS Bottle#: 8 Worklist Smp#: 28
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0063844-028
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 11-Aug-2022 09:57:26 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 09:57:11

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.962	-0.001	0.904	1915450	10.7	120	1578
2 BFS_A3B	519.00 > 113.00	4.033	4.045	-0.012	0.921	2405198	11.8	118	56.8
3 BFS_B3	553.00 > 345.00	4.189	4.203	-0.014	0.956	4481610	39.3	124	118
4 BFS_A2B2	569.00 > 229.00	4.298	4.307	-0.009	0.981	6638371	86.9	125	141
D 6 13C3 HFPO-DA	332.00 > 287.00	4.381	4.391	-0.010	0.878	673715	5.15	103	263
5 BFS_A4B	585.00 > 113.00	4.381	4.391	-0.010	1.000	1781157	6.80	124	174
7 BFS_AB3	619.00 > 229.00	4.555	4.567	-0.012	1.040	9152689	90.8	122	168
8 BFS_A3B2	635.00 > 113.00	4.659	4.674	-0.015	1.063	3156252	16.7	127	187
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.094	1399722	22.8	132	230
10 BFS_A2B3	685.00 > 571.00	4.908	4.900	0.008	1.120	9557	1.66	127	171
* 11 13C2 PFOA	415.00 > 370.00	4.988	4.997	-0.009		3051612	5.00		317

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63844.b\22AUG10BFS-28.d

Injection Date: 11-Aug-2022 06:47:12

Instrument ID: 30733

Lims ID: CCV 4_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 28

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

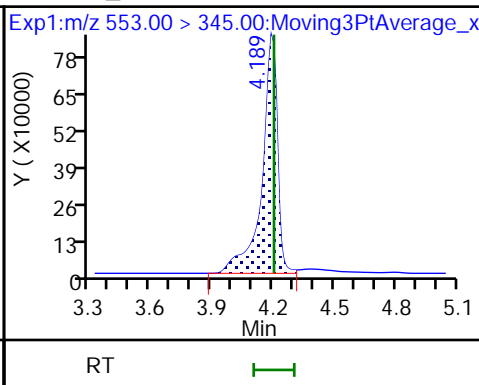
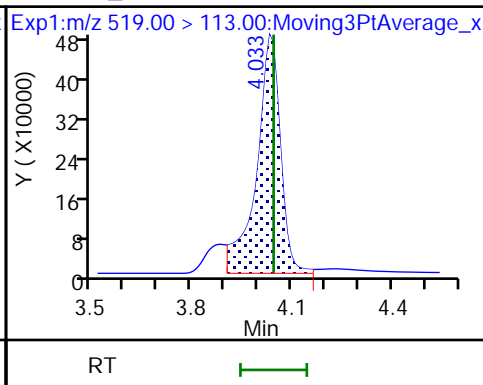
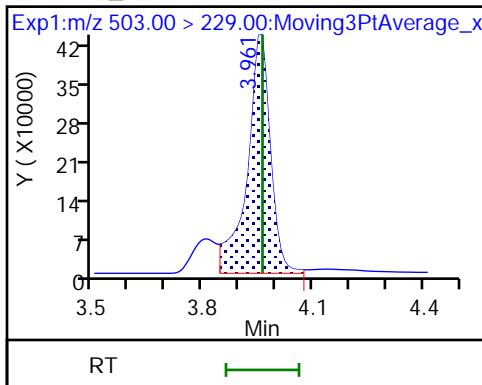
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

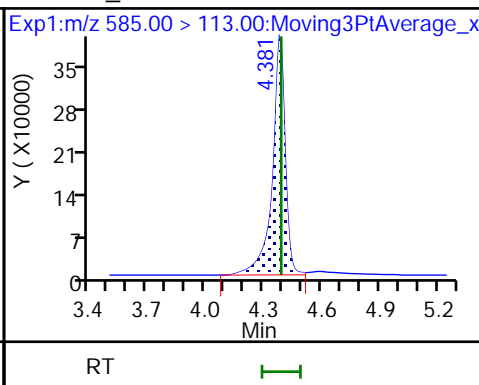
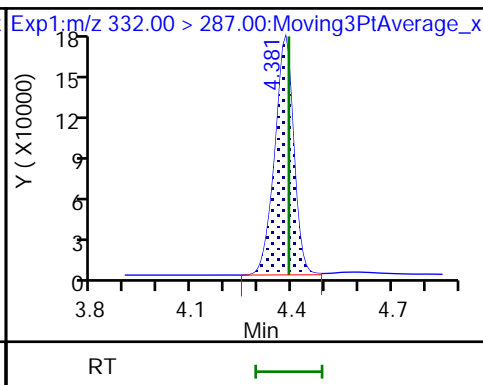
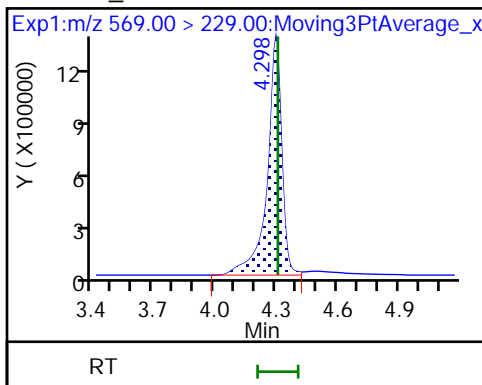
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

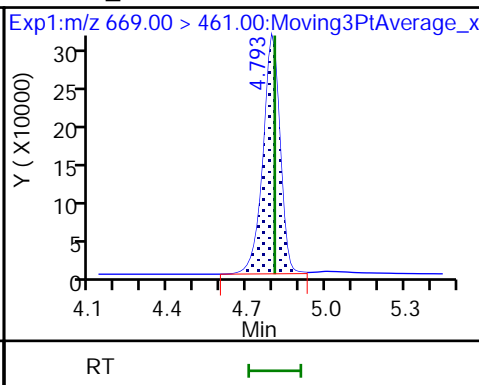
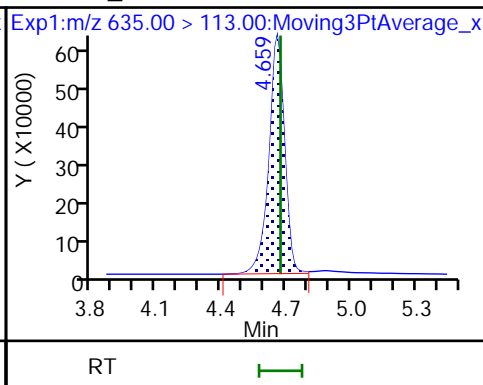
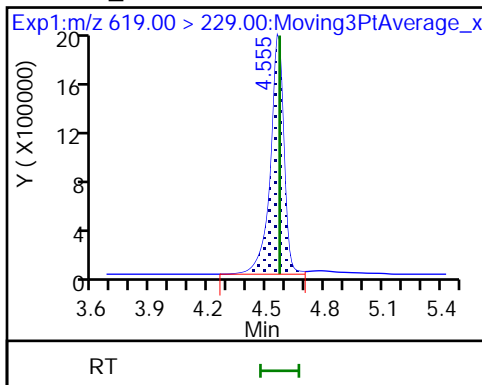
5 BFS_A4B



7 BFS_AB3

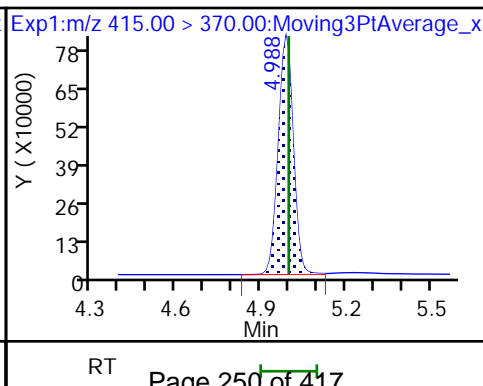
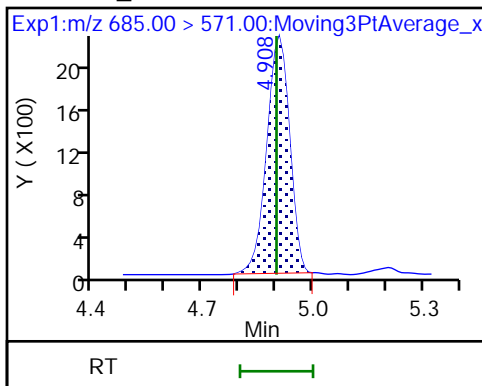
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279981/1-A

Matrix: Water Lab File ID: 22AUG05BFS-03.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 250 (mL) Date Analyzed: 08/09/2022 03:11

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	111		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-03.d
 Lims ID: MB 410-279981/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Aug-2022 03:11:56 ALS Bottle#: 13 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279981/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:14:12
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA									
332.00 > 287.00	4.383	4.389	-0.006	0.878	747780	5.57	111	369	
* 11 13C2 PFOA									
415.00 > 370.00	4.990	4.997	-0.007		3132855	5.00		359	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-03.d

Injection Date: 09-Aug-2022 03:11:56

Instrument ID: 30733

Lims ID: MB 410-279981/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

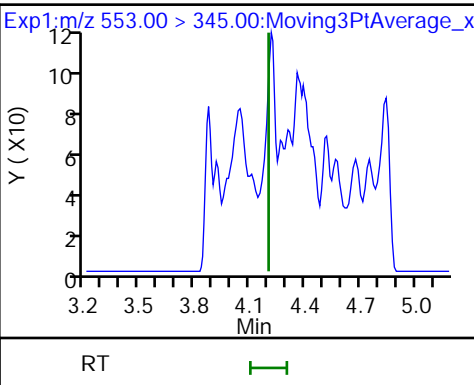
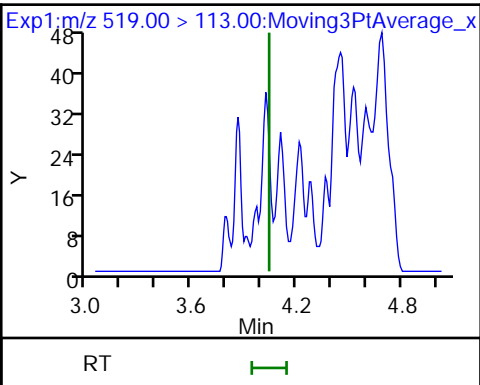
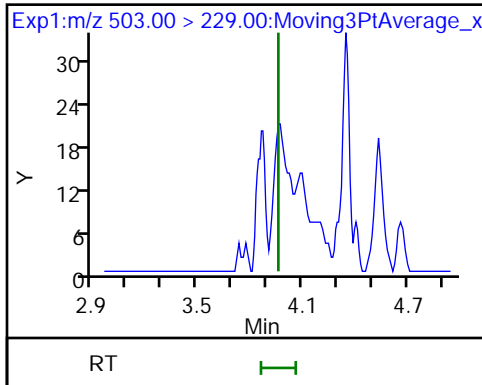
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

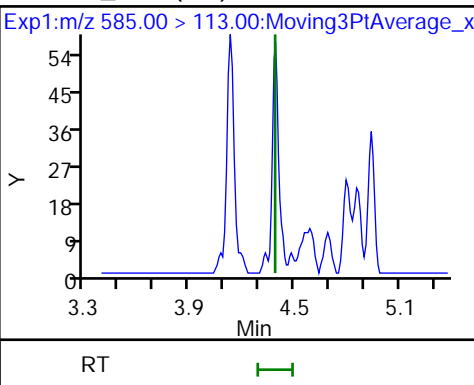
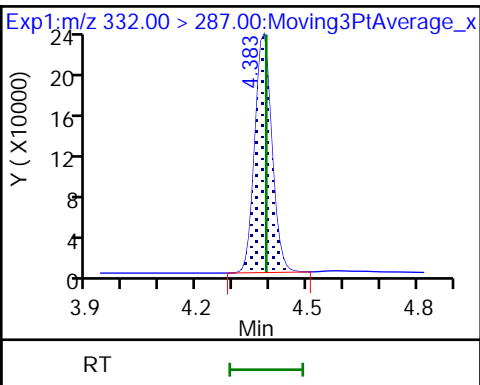
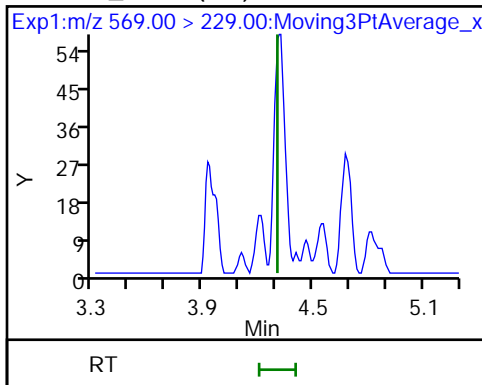
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

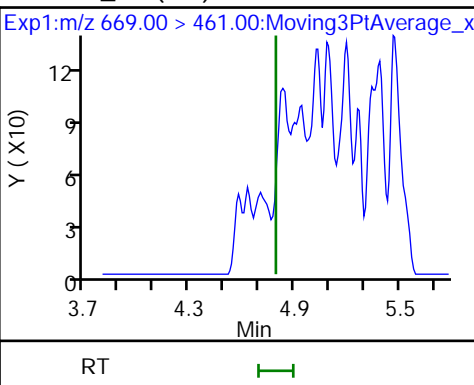
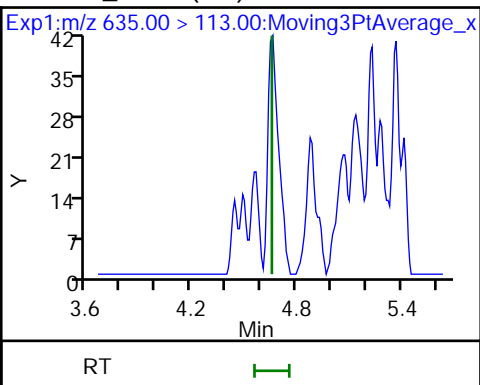
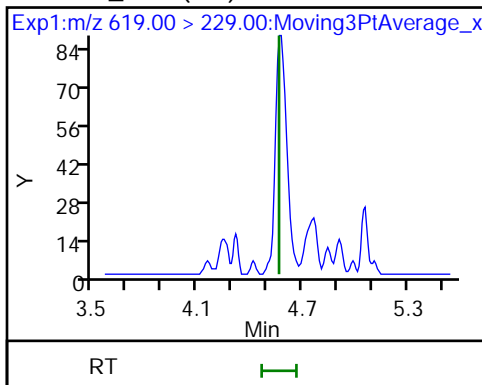
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

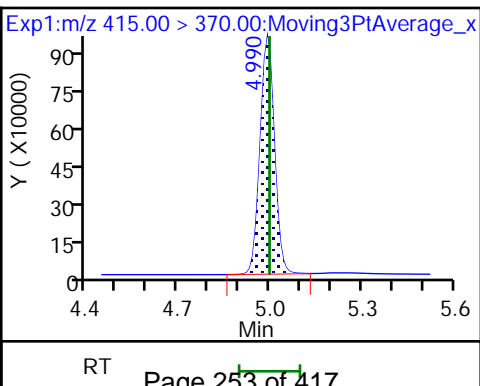
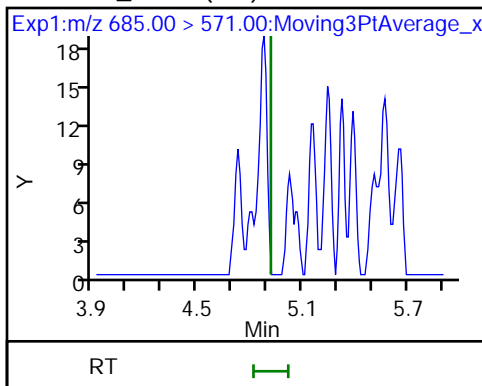
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-283892/11

Matrix: Water Lab File ID: 22AUG08BFSCAL-13.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/09/2022 02:09

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283892 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	ND		0.025	0.013
STL02881	BFS_B3	ND		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-13.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 09-Aug-2022 02:09:02 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:52 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:44:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.390	4.388	0.002	0.878	733197	4.94	98.7	298
* 11 13C2 PFOA	415.00 > 370.00	4.999	4.997	0.003		3466306	5.00		341

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSICAL-13.d

Injection Date: 09-Aug-2022 02:09:02

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

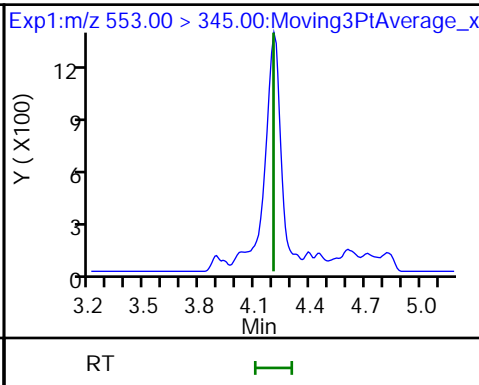
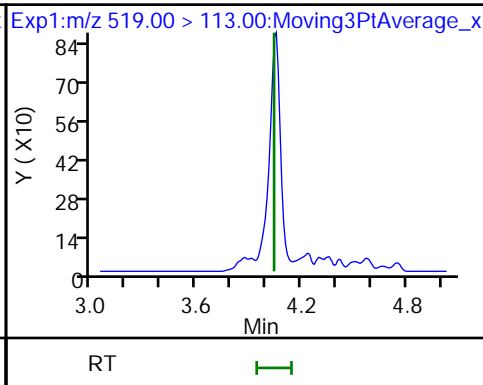
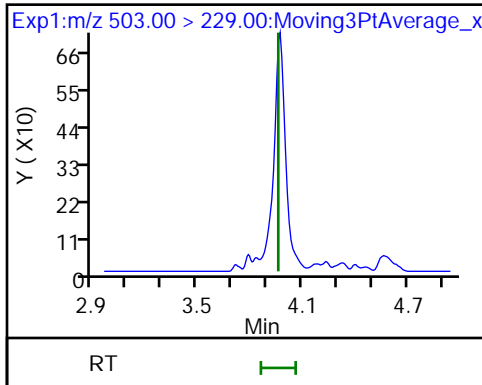
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

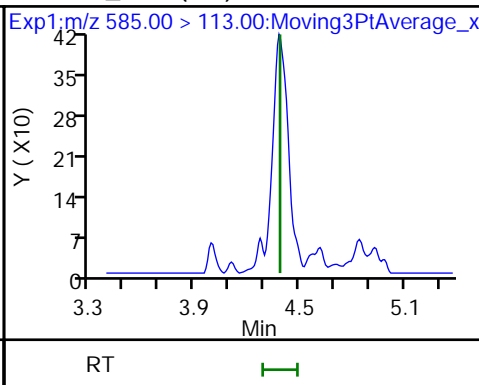
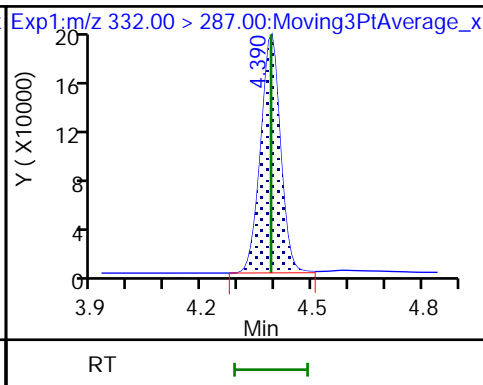
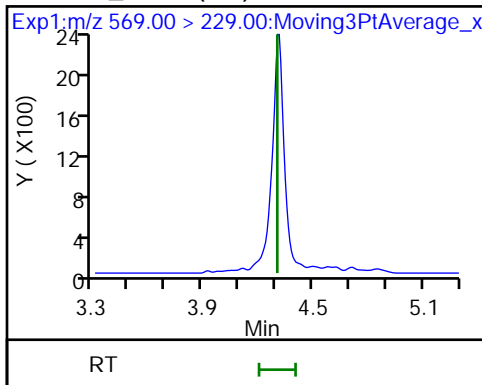
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

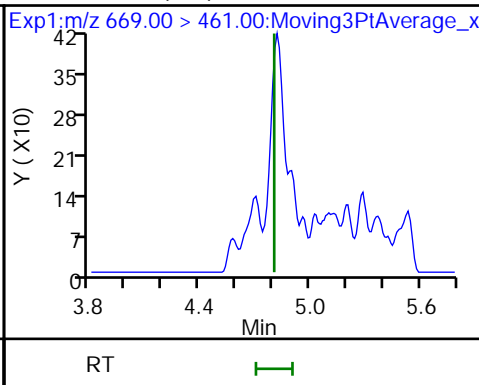
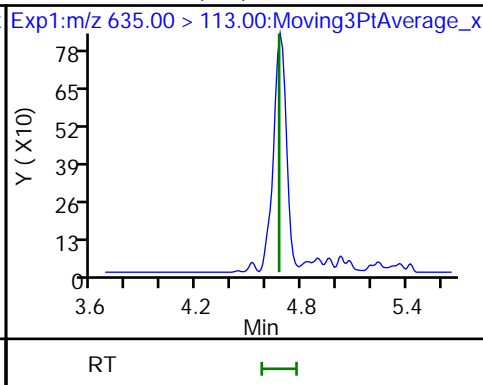
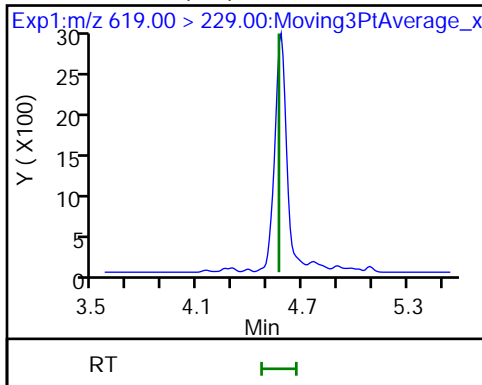
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

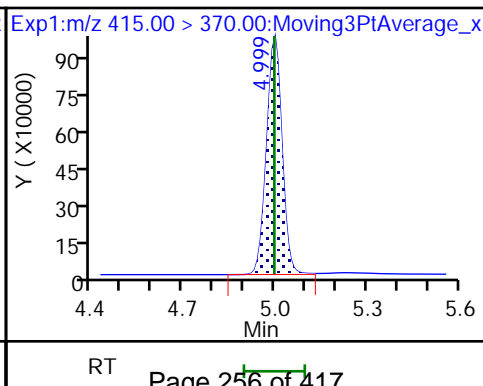
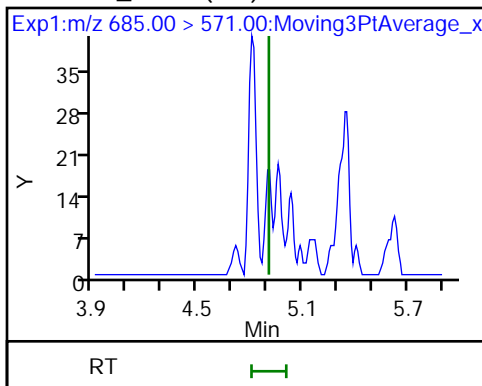
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279981/2-A

Matrix: Water Lab File ID: 22AUG05BFS-04.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 250 (mL) Date Analyzed: 08/09/2022 03:24

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	259		1.4	0.40
STL02887	BFS_A2B3	4.74		1.1	0.40
STL02880	BFS_A3B	38.0		0.60	0.20
STL02885	BFS_A3B2	50.1		0.80	0.20
STL02883	BFS_A4B	18.9		0.40	0.20
STL02879	BFS_AB2	36.0		0.60	0.080
STL02884	BFS_AB3	266		1.5	0.40
STL02881	BFS_B3	115		0.70	0.30
STL02886	BFS_B4	62.2		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-04.d
 Lims ID: LCS 410-279981/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-Aug-2022 03:24:34 ALS Bottle#: 14 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279981/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:14:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.903	1673693	9.00	112	6896
2 BFS_A3B	519.00 > 113.00	4.032	4.043	-0.011	0.919	2004705	9.50	106	242
3 BFS_B3	553.00 > 345.00	4.188	4.201	-0.013	0.954	3409319	28.8	101	220
4 BFS_A2B2	569.00 > 229.00	4.297	4.305	-0.008	0.979	5127833	64.7	104	218
D 6 13C3 HFPO-DA	332.00 > 287.00	4.389	4.389	0.0	0.878	698741	4.99	99.8	361
5 BFS_A4B	585.00 > 113.00	4.389	4.389	0.0	1.000	1280433	4.71	95.2	285
7 BFS_AB3	619.00 > 229.00	4.565	4.565	0.0	1.040	6997203	66.6	99.5	320
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.061	2461556	12.5	106	260
9 BFS_B4	669.00 > 461.00	4.805	4.793	0.012	1.095	992347	15.6	100	247
10 BFS_A2B3	685.00 > 571.00	4.918	4.918	0.0	1.121	7066	1.18	100	133
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		3267519	5.00	359	a

QC Flag Legend
 Processing Flags

Review Flags

a - User Assigned ID

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-04.d

Injection Date: 09-Aug-2022 03:24:34

Instrument ID: 30733

Lims ID: LCS 410-279981/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

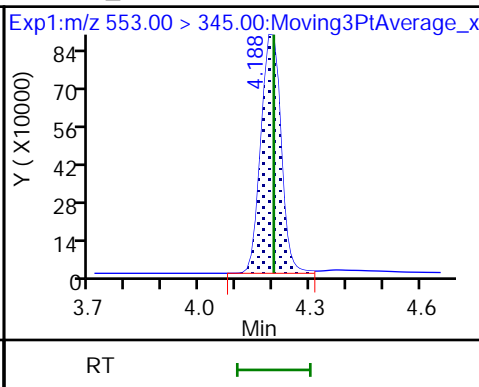
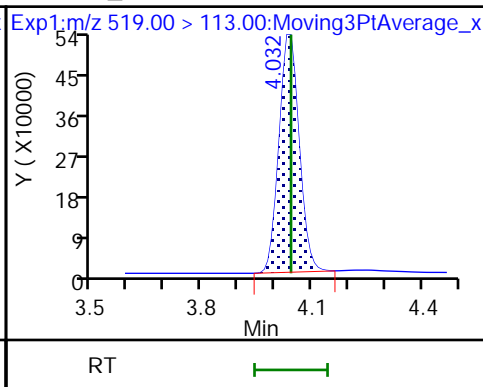
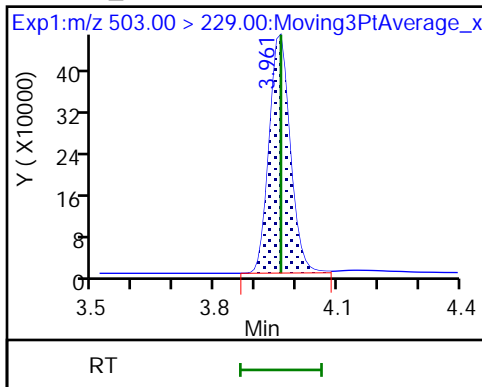
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

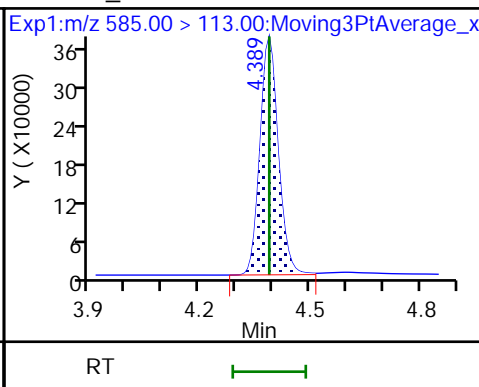
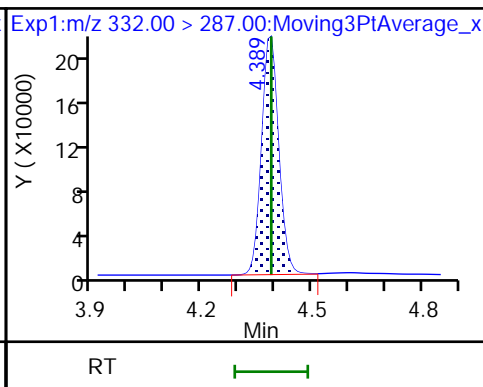
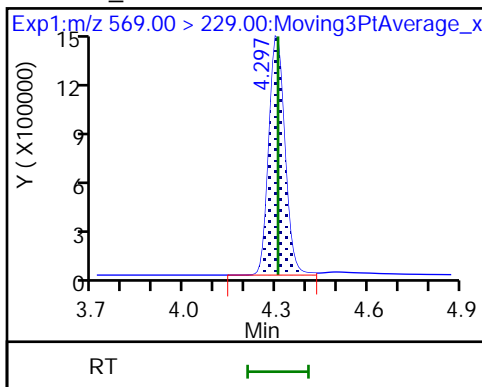
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

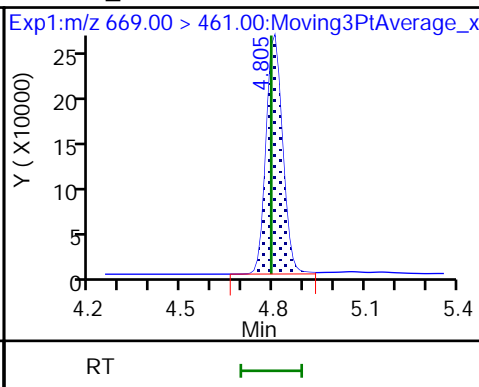
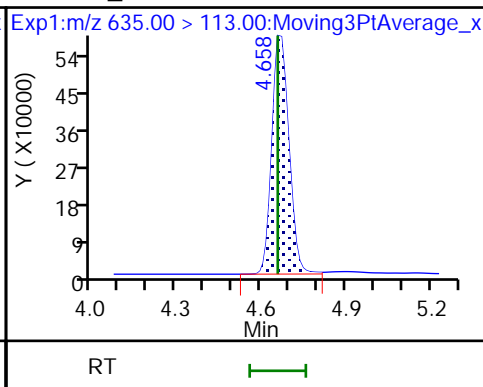
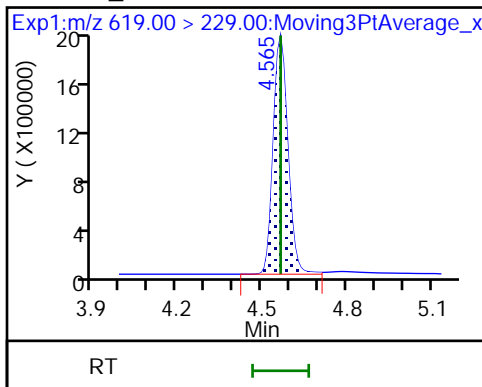
5 BFS_A4B



7 BFS_AB3

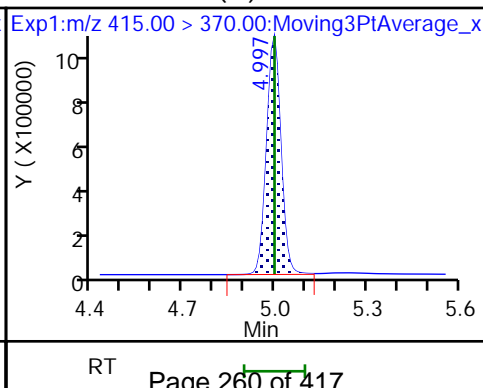
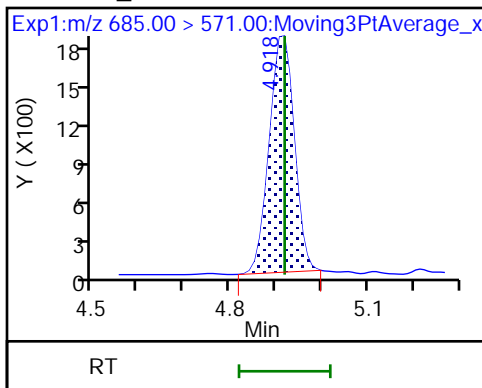
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

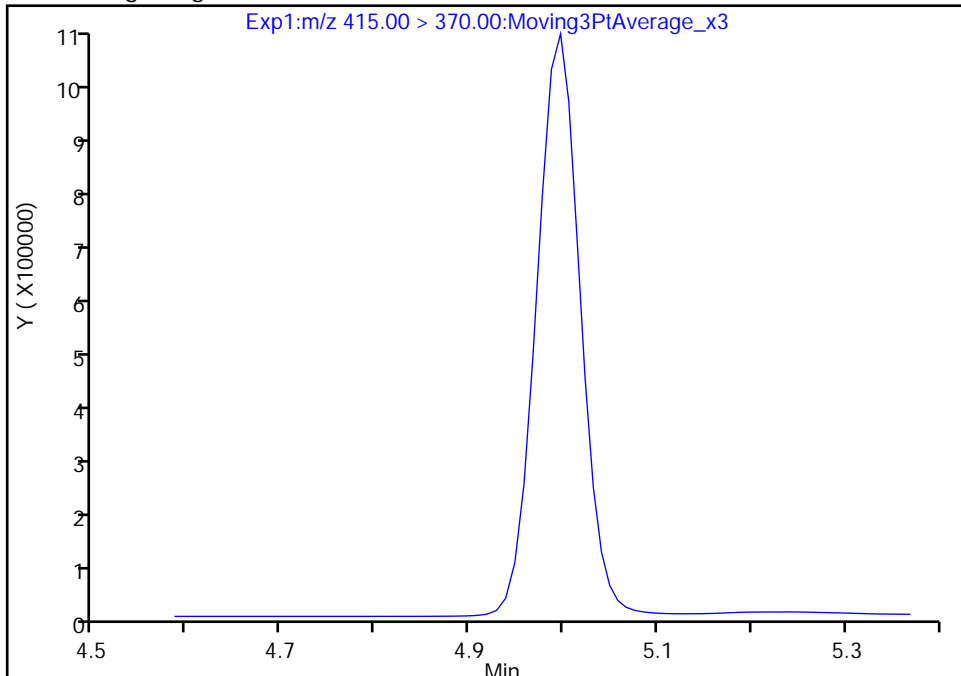
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-04.d
Injection Date: 09-Aug-2022 03:24:34 Instrument ID: 30733
Lims ID: LCS 410-279981/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

* 11 13C2 PFOA, CAS: STL00623

Signal: 1

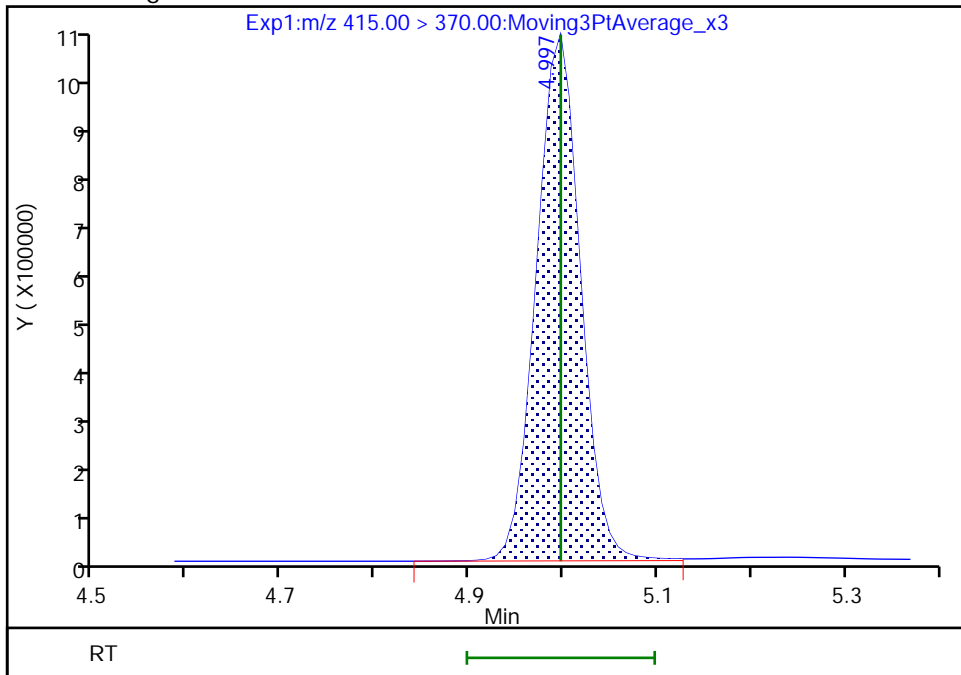
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 3267519
Amount: 5.000000
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 10:14:17
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102D_MS MS Lab Sample ID: 410-90529-1 MS

Matrix: Water Lab File ID: 22AUG05BFS-06.d

Analysis Method: BFS Date Collected: 07/07/2022 16:50

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 305.9(mL) Date Analyzed: 08/09/2022 03:49

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	530		1.1	0.33
STL02887	BFS_A2B3	7.92		0.90	0.33
STL02880	BFS_A3B	82.8		0.49	0.16
STL02885	BFS_A3B2	85.9		0.65	0.16
STL02883	BFS_A4B	38.9		0.33	0.16
STL02879	BFS_AB2	80.1		0.49	0.065
STL02884	BFS_AB3	489		1.2	0.33
STL02881	BFS_B3	247		0.57	0.25
STL02886	BFS_B4	110		0.90	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-06.d
 Lims ID: 410-90529-B-1-E MS
 Client ID: MW-102D_MS
 Sample Type: MS
 Inject. Date: 09-Aug-2022 03:49:43 ALS Bottle#: 16 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-1-E MS
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:16:49

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.962	3.961	0.001	0.904	3675616	24.5	306	9297
2 BFS_A3B	519.00 > 113.00	4.034	4.043	-0.009	0.921	4330477	25.3	283	280
3 BFS_B3	553.00 > 345.00	4.190	4.201	-0.011	0.956	7053189	75.5	265	236
4 BFS_A2B2	569.00 > 229.00	4.299	4.305	-0.006	0.981	10129096	162.0	259	282
D 6 13C3 HFPO-DA	332.00 > 287.00	4.382	4.389	-0.007	0.878	551652	4.68	93.5	347
5 BFS_A4B	585.00 > 113.00	4.390	4.389	0.001	1.002	2556068	11.9	241	324
7 BFS_AB3	619.00 > 229.00	4.557	4.565	-0.008	1.040	12189375	149.7	224	343
8 BFS_A3B2	635.00 > 113.00	4.664	4.658	0.006	1.064	4057373	26.3	223	309
9 BFS_B4	669.00 > 461.00	4.797	4.793	0.004	1.095	1695879	33.7	217	328
10 BFS_A2B3	685.00 > 571.00	4.911	4.918	-0.007	1.121	11440	2.42	205	296
* 11 13C2 PFOA	415.00 > 370.00	4.990	4.997	-0.007		2753226	5.00		348

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-06.d

Injection Date: 09-Aug-2022 03:49:43

Instrument ID: 30733

Lims ID: 410-90529-B-1-E MS

Client ID: MW-102D_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 16

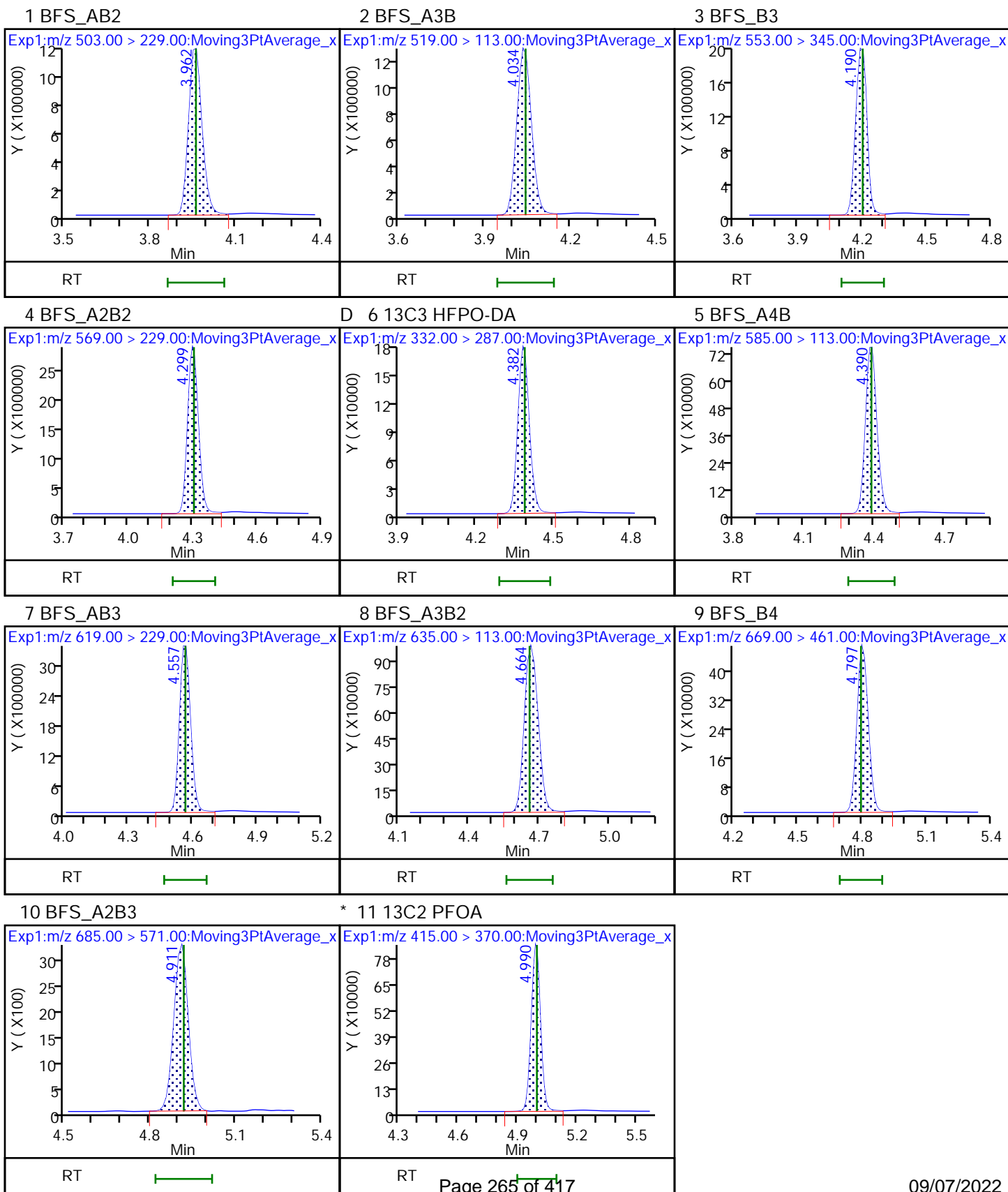
Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102D_MSD MSD Lab Sample ID: 410-90529-1 MSD

Matrix: Water Lab File ID: 22AUG05BFS-07.d

Analysis Method: BFS Date Collected: 07/07/2022 16:55

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 296(mL) Date Analyzed: 08/09/2022 04:02

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	540		1.2	0.34
STL02887	BFS_A2B3	8.06		0.93	0.34
STL02880	BFS_A3B	86.7		0.51	0.17
STL02885	BFS_A3B2	92.6		0.68	0.17
STL02883	BFS_A4B	41.4		0.34	0.17
STL02879	BFS_AB2	83.0		0.51	0.068
STL02884	BFS_AB3	486		1.3	0.34
STL02881	BFS_B3	245		0.59	0.25
STL02886	BFS_B4	113		0.93	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-07.d
 Lims ID: 410-90529-B-1-F MSD
 Client ID: MW-102D_MSD
 Sample Type: MSD
 Inject. Date: 09-Aug-2022 04:02:19 ALS Bottle#: 17 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-B-1-F MSD
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:16:55
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.904	3495589	24.6	307	9517
2 BFS_A3B	519.00 > 113.00	4.032	4.043	-0.011	0.921	4164825	25.7	287	275
3 BFS_B3	553.00 > 345.00	4.201	4.201	-0.001	0.959	6411613	72.4	254	225
4 BFS_A2B2	569.00 > 229.00	4.296	4.305	-0.009	0.981	9480356	159.9	256	266
D 6 13C3 HFPO-DA	332.00 > 287.00	4.380	4.389	-0.009	0.877	523153	4.61	92.2	337
5 BFS_A4B	585.00 > 113.00	4.388	4.389	-0.001	1.002	2491248	12.2	247	329
7 BFS_AB3	619.00 > 229.00	4.565	4.565	0.0	1.042	11112048	143.7	215	316
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.064	4013727	27.4	233	306
9 BFS_B4	669.00 > 461.00	4.804	4.793	0.011	1.097	1596244	33.4	215	314
10 BFS_A2B3	685.00 > 571.00	4.907	4.918	-0.011	1.120	10693	2.39	202	225
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2647652	5.00		327

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-07.d

Injection Date: 09-Aug-2022 04:02:19

Instrument ID: 30733

Lims ID: 410-90529-B-1-F MSD

Client ID: MW-102D_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 17

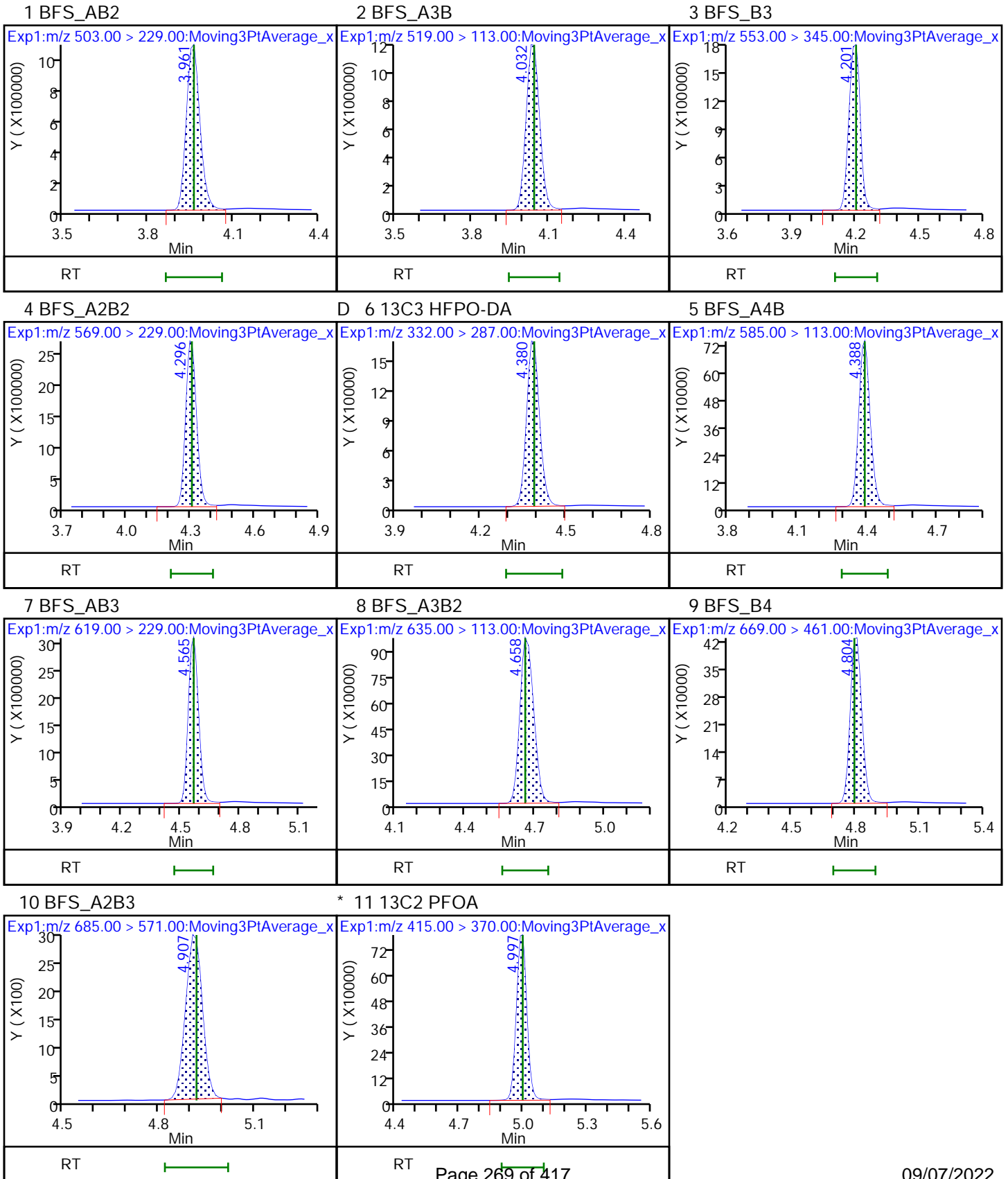
Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/09/2022 00:03

Analysis Batch Number: 283892 End Date: 08/09/2022 02:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-283892/1		08/09/2022 00:03	1	22AUG08BFSCAL-0 3.d	Gemini C18 50mm 3 (mm)
IC 410-283892/2		08/09/2022 00:15	1	22AUG08BFSCAL-0 4.d	Gemini C18 50mm 3 (mm)
IC 410-283892/3		08/09/2022 00:28	1	22AUG08BFSCAL-0 5.d	Gemini C18 50mm 3 (mm)
IC 410-283892/4		08/09/2022 00:40	1	22AUG08BFSCAL-0 6.d	Gemini C18 50mm 3 (mm)
ICISAV 410-283892/5		08/09/2022 00:53	1	22AUG08BFSCAL-0 7.d	Gemini C18 50mm 3 (mm)
IC 410-283892/6		08/09/2022 01:06	1	22AUG08BFSCAL-0 8.d	Gemini C18 50mm 3 (mm)
IC 410-283892/7		08/09/2022 01:18	1	22AUG08BFSCAL-0 9.d	Gemini C18 50mm 3 (mm)
IC 410-283892/8		08/09/2022 01:31	1	22AUG08BFSCAL-1 0.d	Gemini C18 50mm 3 (mm)
IC 410-283892/9		08/09/2022 01:43	1	22AUG08BFSCAL-1 1.d	Gemini C18 50mm 3 (mm)
IC 410-283892/10		08/09/2022 01:56	1	22AUG08BFSCAL-1 2.d	Gemini C18 50mm 3 (mm)
ICB 410-283892/11		08/09/2022 02:09	1	22AUG08BFSCAL-1 3.d	Gemini C18 50mm 3 (mm)
ICV 410-283892/12		08/09/2022 02:21	1	22AUG08BFSCAL-1 4.d	Gemini C18 50mm 3 (mm)
CCV 410-283892/13		08/09/2022 02:34	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/09/2022 02:46

Analysis Batch Number: 283897 End Date: 08/09/2022 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283897/1		08/09/2022 02:46	1	22AUG05BFS-01.d	Gemini C18 50mm 3 (mm)
CCV 410-283897/2		08/09/2022 02:59	1	22AUG05BFS-02.d	Gemini C18 50mm 3 (mm)
MB 410-279981/1-A		08/09/2022 03:11	1	22AUG05BFS-03.d	Gemini C18 50mm 3 (mm)
LCS 410-279981/2-A		08/09/2022 03:24	1	22AUG05BFS-04.d	Gemini C18 50mm 3 (mm)
410-90529-1	MW-102D	08/09/2022 03:37	1	22AUG05BFS-05.d	Gemini C18 50mm 3 (mm)
410-90529-1 MS	MW-102D_MS MS	08/09/2022 03:49	1	22AUG05BFS-06.d	Gemini C18 50mm 3 (mm)
410-90529-1 MSD	MW-102D_MSD MSD	08/09/2022 04:02	1	22AUG05BFS-07.d	Gemini C18 50mm 3 (mm)
410-90529-2	MW-118S	08/09/2022 04:14	1	22AUG05BFS-08.d	Gemini C18 50mm 3 (mm)
410-90529-3	MW-118D	08/09/2022 04:27	1	22AUG05BFS-09.d	Gemini C18 50mm 3 (mm)
410-90529-4	MW-101S	08/09/2022 04:40	1	22AUG05BFS-10.d	Gemini C18 50mm 3 (mm)
410-90529-5	MW-101D	08/09/2022 04:52	1	22AUG05BFS-11.d	Gemini C18 50mm 3 (mm)
410-90529-6	MW-107S	08/09/2022 05:05	1	22AUG05BFS-12.d	Gemini C18 50mm 3 (mm)
410-90529-7	MW-107D	08/09/2022 05:18	1	22AUG05BFS-13.d	Gemini C18 50mm 3 (mm)
410-90529-8	MW-109S	08/09/2022 05:30	1	22AUG05BFS-14.d	Gemini C18 50mm 3 (mm)
CCV 410-283897/15		08/09/2022 05:43	1	22AUG05BFS-15.d	Gemini C18 50mm 3 (mm)
410-90529-9	MW-109D	08/09/2022 05:55	1	22AUG05BFS-16.d	Gemini C18 50mm 3 (mm)
410-90529-10	EB_070822	08/09/2022 06:08	1	22AUG05BFS-17.d	Gemini C18 50mm 3 (mm)
CCV 410-283897/18		08/09/2022 06:20	1	22AUG05BFS-18.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:58	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:23	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 08:01	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 08:14	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/29		08/09/2022 08:39	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 08:51	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:04	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:17	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:29	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:42	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:54	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:07	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:20	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:32	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:45	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:58	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/41		08/09/2022 11:10	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 11:23	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/48		08/09/2022 12:38	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/11/2022 02:46

Analysis Batch Number: 284701 End Date: 08/11/2022 06:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-284701/1		08/11/2022 02:46	1	22AUG10BFS-01.d	Gemini C18 50mm 3 (mm)
CCV 410-284701/16		08/11/2022 05:56	1	22AUG10BFS-16.d	Gemini C18 50mm 3 (mm)
410-90529-8 DL	MW-109S DL	08/11/2022 06:09	10	22AUG10BFS-17.d	Gemini C18 50mm 3 (mm)
CCV 410-284701/28		08/11/2022 06:47	1	22AUG10BFS-28.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90529-1

SDG No.: _____

Batch Number: 279981 Batch Start Date: 07/27/22 10:12 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00013
MB 410-279981/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279981/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90529-B-1	MW-102D	3535, BFS	T	331.67 g	27.42 g	304.3 mL	1 mL		0.1 mL
410-90529-B-1	MW-102D_MS	3535, BFS	T	333.39 g	27.54 g	305.9 mL	1 mL	0.045 mL	0.1 mL
MSD 410-90529-B-1	MW-102D_MSD	3535, BFS	T	323.23 g	27.22 g	296 mL	1 mL	0.045 mL	0.1 mL
410-90529-B-2	MW-118S	3535, BFS	T	323.74 g	27.39 g	296.4 mL	1 mL		0.1 mL
410-90529-B-3	MW-118D	3535, BFS	T	314.77 g	27.25 g	287.5 mL	1 mL		0.1 mL
410-90529-B-4	MW-101S	3535, BFS	T	304.72 g	27.62 g	277.1 mL	1 mL		0.1 mL
410-90529-B-5	MW-101D	3535, BFS	T	314.24 g	27.42 g	286.8 mL	1 mL		0.1 mL
410-90529-B-6	MW-107S	3535, BFS	T	327.05 g	27.66 g	299.4 mL	1 mL		0.1 mL
410-90529-B-7	MW-107D	3535, BFS	T	316.38 g	27.57 g	288.8 mL	1 mL		0.1 mL
410-90529-B-8	MW-109S	3535, BFS	T	333.84 g	27.71 g	306.1 mL	1 mL		0.1 mL
410-90529-B-9	MW-109D	3535, BFS	T	325.41 g	27.58 g	297.8 mL	1 mL		0.1 mL
410-90529-B-10	EB_070822	3535, BFS	T	293.41 g	27.84 g	265.6 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-279981/1		3535, BFS							
LCS 410-279981/2		3535, BFS							
410-90529-B-1	MW-102D	3535, BFS	T						
410-90529-B-1	MW-102D_MS	3535, BFS	T						
MSD 410-90529-B-1	MW-102D_MSD	3535, BFS	T						
410-90529-B-2	MW-118S	3535, BFS	T	Required Vacuum					
410-90529-B-3	MW-118D	3535, BFS	T						
410-90529-B-4	MW-101S	3535, BFS	T						
410-90529-B-5	MW-101D	3535, BFS	T						
410-90529-B-6	MW-107S	3535, BFS	T						
410-90529-B-7	MW-107D	3535, BFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90529-1

SDG No.: _____

Batch Number: 279981 Batch Start Date: 07/27/22 10:12 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-90529-B-8	MW-109S	3535, BFS	T						
410-90529-B-9	MW-109D	3535, BFS	T						
410-90529-B-10	EB_070822	3535, BFS	T						

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	9, 21
Pipette/Syringe/Dispenser ID	P10-9, PFAS 7, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	37507262233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279981

Analyst: Barnhart, Toby B

Batch Open: 7/27/2022 10:12:00AM

Method Code: 410-3535_28D-410

Batch End: B410-279981



Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs Rcvd	Adj1	Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB~410-279981/1 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
2	LCS~410-279981/2 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
3	410-90529-B-1 (BFS_IDA)	N/A (410-90529-1)	331.67 g 27.42 g	304.3 mL 1 mL				7/14/22	7_Days	4		
4	410-90529-B-1~MS (BFS_IDA)	N/A (410-90529-1)	333.39 g 27.54 g	305.9 mL 1 mL				7/14/22	7_Days	4		
5	410-90529-B-1~MSD (BFS_IDA)	N/A (410-90529-1)	323.23 g 27.22 g	296 mL 1 mL				7/14/22	7_Days	4		
6	410-90529-B-2 (BFS_IDA)	N/A (410-90529-1)	323.74 g 27.39 g	296.4 mL 1 mL				7/14/22	7_Days	4	Required Vacuum	
7	410-90529-B-3 (BFS_IDA)	N/A (410-90529-1)	314.77 g 27.25 g	287.5 mL 1 mL				7/14/22	7_Days	4		
8	410-90529-B-4 (BFS_IDA)	N/A (410-90529-1)	304.72 g 27.62 g	277.1 mL 1 mL				7/14/22	7_Days	4		
9	410-90529-B-5 (BFS_IDA)	N/A (410-90529-1)	314.24 g 27.42 g	286.8 mL 1 mL				7/14/22	7_Days	4		
10	410-90529-B-6 (BFS_IDA)	N/A (410-90529-1)	327.05 g 27.66 g	299.4 mL 1 mL				7/14/22	7_Days	4		

Loaded N-Evaf B

Reconstituted: ALK33126

*09/07/2022
P1000-9 used for vialing.*

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)













Batch Number: 410-279981

Analyst: Barnhart, Toby B

Batch Open: 7/27/2022 10:12:00AM

Method Code: 410-3535_28D-410

Batch End:

11	410-90529-B-7 (BFS_IDA)	N/A (410-90529-1)	316.38 g	288.8 mL				7/14/22	7_Days	4		
			27.57 g	1 mL								
12	410-90529-B-8 (BFS_IDA)	N/A (410-90529-1)	333.84 g	306.1 mL				7/14/22	7_Days	4		
			27.71 g	1 mL								
13	410-90529-B-9 (BFS_IDA)	N/A (410-90529-1)	325.41 g	297.8 mL				7/14/22	7_Days	4		
			27.58 g	1 mL								
14	410-90529-B-10 (BFS_IDA)	N/A (410-90529-1)	293.41 g	265.6 mL				7/14/22	7_Days	4		
			27.84 g	1 mL								
15	410-90799-B-1 (BFS_IDA)	N/A (410-90799-1)	342.66 g	315.5 mL				7/15/22	7_Days	4		
			27.17 g	1 mL								
16	410-90799-B-2 (BFS_IDA)	N/A (410-90799-1)	296.97 g	269.6 mL				7/15/22	7_Days	4		
			27.42 g	1 mL								
17	410-90799-B-3 (BFS_IDA)	N/A (410-90799-1)	331.88 g	304.1 mL				7/15/22	7_Days	4		
			27.82 g	1 mL								
18	410-90799-B-4 (BFS_IDA)	N/A (410-90799-1)	321.96 g	294.7 mL				7/15/22	7_Days	4	Required Vacuum	
			27.25 g	1 mL								
19	410-90799-B-5 (BFS_IDA)	N/A (410-90799-1)	326.20 g	298.8 mL				7/15/22	7_Days	4	Required Vacuum	
			27.41 g	1 mL								
20	410-90799-B-6 (BFS_IDA)	N/A (410-90799-1)	306.38 g	279 mL				7/15/22	7_Days	4		
			27.34 g	1 mL								
21	410-90799-B-7 (BFS_IDA)	N/A (410-90799-1)	328.20 g	300.7 mL				7/15/22	7_Days	4		
			27.55 g	1 mL								
22	410-90799-B-8 (BFS_IDA)	N/A (410-90799-1)	310.02 g	282.6 mL				7/15/22	7_Days	4		
			27.45 g	1 mL								

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)



Batch Number: 410-279981

Analyst: Barnhart, Toby B

Batch Open: 7/27/2022 10:12:00AM

Method Code: 410-3535_28D-410

Batch End:

23	410-90799-B-9 (BFS_IDA)	N/A (410-90799-1)	305.97 g	278.7 mL				7/15/22	7_Days	4	
			27.27 g	1 mL							
24	MB-410-279981/24 N/A	N/A	300 g	250 mL				N/A	N/A	N/A	Concentration Blank 
			50 g	1 mL							

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279981

Analyst: Barnhart, Toby B

Batch Open: 7/27/2022 10:12:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-02

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID C125996498

Manifold ID 9, 21

Pipette/Syringe/Dispenser ID P10-9, PFAS 7, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 37507262233A

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst LB 44841

Methanol ID 220066

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279981

Analyst: Barnhart, Toby B

Batch Open: 7/27/2022 10:12:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210406-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279981

Analyst: Barnhart, Toby B

Batch Open: 7/27/2022 10:12:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-279981/1	PFC_SS_00013	0.100 mL	1 mL		
LCS 410-279981/2	PFC_IN_BFS_00016	0.045 mL	1 mL		
LCS 410-279981/2	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-1	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-1 MS	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90529-B-1 MS	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-1 MSD	PFC_IN_BFS_00016	0.045 mL	1 mL		
410-90529-B-1 MSD	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-2	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-3	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-4	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-5	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-6	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-7	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-8	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-9	PFC_SS_00013	0.100 mL	1 mL		
410-90529-B-10	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-1	PFC_SS_00013	0.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279981

Analyst: Barnhart, Toby B

Batch Open: 7/27/2022 10:12:00AM

Method Code: 410-3535_28D-410

Batch End:

410-90799-B-2	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-3	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-4	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-5	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-6	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-7	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-8	PFC_SS_00013	0.100 mL	1 mL		
410-90799-B-9	PFC_SS_00013	0.100 mL	1 mL		
MB 410-279981/24	PFC_SS_00013	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
ISTD	20 µL	PFC-IS_MOD-00372
		CMS19209 8/5/22

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90529-1

SDG No.: _____

Batch Number: 283892 Batch Start Date: 08/09/22 00:03 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-283892/1		BFS					200 uL		
IC 410-283892/2		BFS							200 uL
IC 410-283892/3		BFS							
IC 410-283892/4		BFS							
ICISAV 410-283892/5		BFS							
IC 410-283892/6		BFS							
IC 410-283892/7		BFS							
IC 410-283892/8		BFS							
IC 410-283892/9		BFS							
IC 410-283892/10		BFS						200 uL	
ICB 410-283892/11		BFS			10 uL	50 uL			
ICV 410-283892/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-283892/1		BFS							
IC 410-283892/2		BFS							
IC 410-283892/3		BFS		200 uL					
IC 410-283892/4		BFS			200 uL				
ICISAV 410-283892/5		BFS				200 uL			
IC 410-283892/6		BFS					200 uL		
IC 410-283892/7		BFS						200 uL	
IC 410-283892/8		BFS							200 uL
IC 410-283892/9		BFS							
IC 410-283892/10		BFS							
ICB 410-283892/11		BFS							
ICV 410-283892/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90529-1

SDG No.: _____

Batch Number: 283892 Batch Start Date: 08/09/22 00:03 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-283892/1		BFS							
IC 410-283892/2		BFS							
IC 410-283892/3		BFS							
IC 410-283892/4		BFS							
ICISAV 410-283892/5		BFS							
IC 410-283892/6		BFS							
IC 410-283892/7		BFS							
IC 410-283892/8		BFS							
IC 410-283892/9		BFS		200 uL					
IC 410-283892/10		BFS							
ICB 410-283892/11		BFS							
ICV 410-283892/12		BFS							

Batch Notes	
Mobil Phase ID	2996208022233B, 2996208022233D

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MFS_IDA

Mono-functional Surfactants (MFS) by
LC/MS/MS using Isotope Dilution

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-102D	410-90529-1	103
MW-118S	410-90529-2	102
MW-118D	410-90529-3	106
MW-101S	410-90529-4	122
MW-101D	410-90529-5	88
MW-107S	410-90529-6	115
MW-107D	410-90529-7	126
MW-109S	410-90529-8	124
MW-109S DL	410-90529-8 DL	122
MW-109D	410-90529-9	100
EB_070822	410-90529-10	107
	MB 410-279534/1-A	101
	LCS 410-279534/2-A	105
MW-102D_MS MS	410-90529-1 MS	116
MW-102D_MSD MSD	410-90529-1 MSD	91

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II MFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG5MFS-25.d

Lab ID: LCS 410-279534/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	41.3	107	70-130	
MFS_M3	39.4	41.0	104	70-130	
MFS_N3	40.1	40.5	101	70-130	
MFS_M4	39.3	43.0	110	70-130	
MFS_N4	39.8	41.7	105	70-130	
MFS_N5	40.4	43.8	108	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90529-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22AUG08MFS-11.d

Lab ID: 410-90529-1 MS

Client ID: MW-102D_MS MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
MFS_N2	30.6	17	53.0	118	70-130	
MFS_M3	31.3	8.2	56.6	154	70-130	F1
MFS_N3	31.8	8.9	62.7	169	70-130	F1
MFS_M4	31.2	ND	37.5	120	70-130	
MFS_N4	31.6	ND	38.1	120	70-130	
MFS_N5	32.1	ND	16.7	52	70-130	F1

Column to be used to flag recovery and RPD values

FORM III MFS

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90529-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22AUG09MFS-03.d

Lab ID: 410-90529-1 MSD

Client ID: MW-102D_MSD MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	33.1	50.8	103	4	30	70-130	
MFS_M3	33.8	53.7	134	5	30	70-130	F1
MFS_N3	34.3	59.5	147	5	30	70-130	F1
MFS_M4	33.7	38.8	115	3	30	70-130	
MFS_N4	34.1	39.4	115	3	30	70-130	
MFS_N5	34.6	35.4	102	72	30	70-130	F2

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90529-1

SDG No.:

Lab File ID: 22AUG5MFS-24.d

Lab Sample ID: MB 410-279534/1-A

Matrix: Water

Date Extracted: 07/26/2022 09:37

Instrument ID: 30733

Date Analyzed: 08/05/2022 17:08

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-279534/2-A	22AUG5MFS-2 5.d	08/05/2022 17:21
MW-102D	410-90529-1	22AUG5MFS-2 6.d	08/05/2022 17:33
MW-118S	410-90529-2	22AUG5MFS-3 0.d	08/05/2022 18:24
MW-118D	410-90529-3	22AUG5MFS-3 1.d	08/05/2022 18:36
MW-101S	410-90529-4	22AUG5MFS-3 2.d	08/05/2022 18:49
MW-101D	410-90529-5	22AUG5MFS-3 3.d	08/05/2022 19:02
MW-107S	410-90529-6	22AUG5MFS-3 4.d	08/05/2022 19:15
MW-107D	410-90529-7	22AUG5MFS-3 5.d	08/05/2022 19:28
MW-109S	410-90529-8	22AUG5MFS-3 6.d	08/05/2022 19:41
MW-109D	410-90529-9	22AUG5MFS-3 7.d	08/05/2022 19:53
EB_070822	410-90529-10	22AUG5MFS-3 8.d	08/05/2022 20:06
MW-102D_MS MS	410-90529-1 MS	22AUG08MFS- 11.d	08/08/2022 20:36
MW-102D_MSD MSD	410-90529-1 MSD	22AUG09MFS- 03.d	08/10/2022 01:34
MW-109S DL	410-90529-8 DL	22AUG10MFS- 02.d	08/11/2022 01:30

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90529-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2022 10:08
 Calibration ID: 41512

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3261205	5.00				
UPPER LIMIT		4891808	5.40				
LOWER LIMIT		1630603	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-283151/8		3128259	5.00				
ICV 410-283151/9		3414636	4.99				
CCVL 410-283250/1		3295947	5.01				
CCVL 410-283250/23		3324937	5.00				
MB 410-279534/1-A		3276548	5.00				
LCS 410-279534/2-A		3108926	5.00				
410-90529-1	MW-102D	2614362	5.01				
CCV 410-283250/29		3032129	5.00				
410-90529-2	MW-118S	2802827	5.00				
410-90529-3	MW-118D	2712815	5.01				
410-90529-4	MW-101S	2660318	5.00				
410-90529-5	MW-101D	2809446	5.01				
410-90529-6	MW-107S	2461321	5.00				
410-90529-7	MW-107D	2291328	5.01				
410-90529-8	MW-109S	2449960	5.01				
410-90529-9	MW-109D	2735492	5.01				
410-90529-10	EB_070822	3308178	5.01				
CCV 410-283250/39		3128628	5.01				
CCVL 410-283896/1		3417511	4.98				
410-90529-1 MS	MW-102D_MS MS	2322637	5.00				
CCV 410-283896/11		3254295	4.99				
CCVL 410-284258/1		3477860	5.00				
410-90529-1 MSD	MW-102D_MSD MSD	3043252	5.00				
CCV 410-284258/4		3210888	4.98				
CCVL 410-284700/1		3416516	5.00				
410-90529-8 DL	MW-109S DL	3262387	4.99				
CCV 410-284700/5		3003078	5.00				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102D Lab Sample ID: 410-90529-1

Matrix: Water Lab File ID: 22AUG5MFS-26.d

Analysis Method: MFS Date Collected: 07/07/2022 16:45

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 278.7(mL) Date Analyzed: 08/05/2022 17:33

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	17		0.90	0.18
STL02874	MFS_M3	8.2	F1	0.90	0.18
STL02875	MFS_N3	8.9	F1	0.90	0.18
STL02876	MFS_M4	ND		0.90	0.45
STL02877	MFS_N4	ND		1.8	0.90
STL02888	MFS_N5	ND	F1 F2	2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-26.d
 Lims ID: 410-90529-A-1-A
 Client ID: MW-102D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 17:33:52 ALS Bottle#: 31 Worklist Smp#: 26
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-026
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:19:17 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:09
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.393	4.393	0.0	0.878	544498	5.16	103	2780
* 2 13C2 PFOA	415.00 > 370.00	5.005	4.998	0.007		2614362	5.00		3528
3 MFS_N2	461.00 > 367.00	5.225	5.246	-0.021	1.189	1381397	4.70		579
4 MFS_M3	577.00 > 483.00	5.811	5.848	-0.037	1.323	522340	2.29		1461
5 MFS_N3	627.00 > 533.00	6.035	6.044	-0.009	1.374	645769	2.49		2483

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-26.d

Injection Date: 05-Aug-2022 17:33:52

Instrument ID: 30733

Lims ID: 410-90529-A-1-A

Lab Sample ID: 410-90529-1

Client ID: MW-102D

Operator ID: US19_USR_INS20260

ALS Bottle#: 31

Worklist Smp#: 26

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

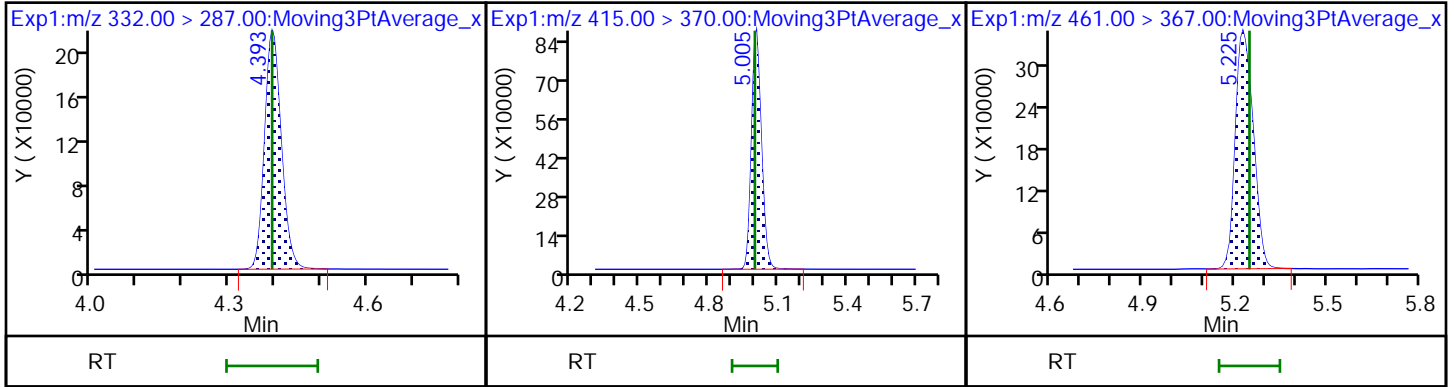
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

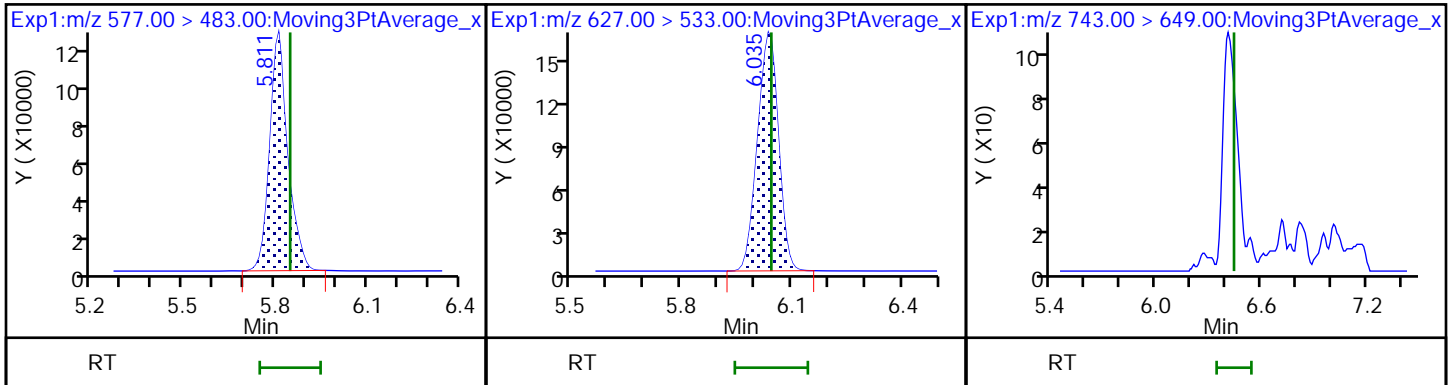
3 MFS_N2



4 MFS_M3

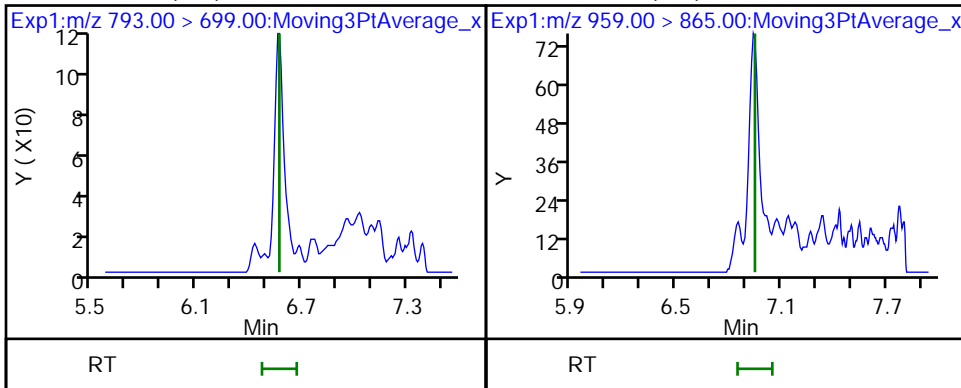
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-118S Lab Sample ID: 410-90529-2

Matrix: Water Lab File ID: 22AUG5MFS-30.d

Analysis Method: MFS Date Collected: 07/08/2022 10:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 305.7(mL) Date Analyzed: 08/05/2022 18:24

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	0.59	J	0.82	0.16
STL02874	MFS_M3	ND		0.82	0.16
STL02875	MFS_N3	ND		0.82	0.16
STL02876	MFS_M4	ND		0.82	0.41
STL02877	MFS_N4	ND		1.6	0.82
STL02888	MFS_N5	ND		2.5	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-30.d
 Lims ID: 410-90529-A-2-A
 Client ID: MW-118S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 18:24:16 ALS Bottle#: 34 Worklist Smp#: 30
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-030
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:37
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.396	4.393	0.003	0.879	577326	5.10	102	2550
* 2 13C2 PFOA	415.00 > 370.00	5.004	4.998	0.006		2802827	5.00		3392
3 MFS_N2	461.00 > 367.00	5.224	5.246	-0.022	1.188	79947	0.1791		39.8
4 MFS_M3	577.00 > 483.00	5.819	5.848	-0.029	1.324	5833	-0.0529		25.3
5 MFS_N3	627.00 > 533.00	6.044	6.044	0.0	1.375	16786	0.0221		155

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-30.d

Injection Date: 05-Aug-2022 18:24:16

Instrument ID: 30733

Lims ID: 410-90529-A-2-A

Lab Sample ID: 410-90529-2

Client ID: MW-118S

Operator ID: US19_USR_INS20260

ALS Bottle#: 34 Worklist Smp#: 30

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

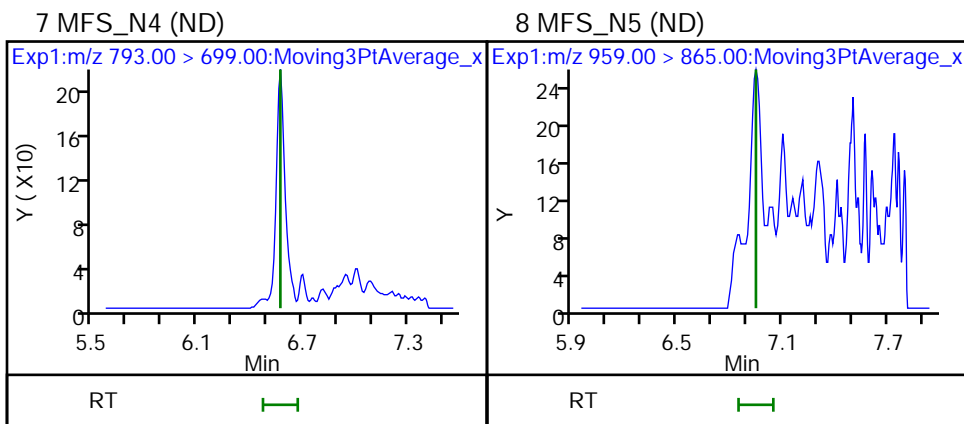
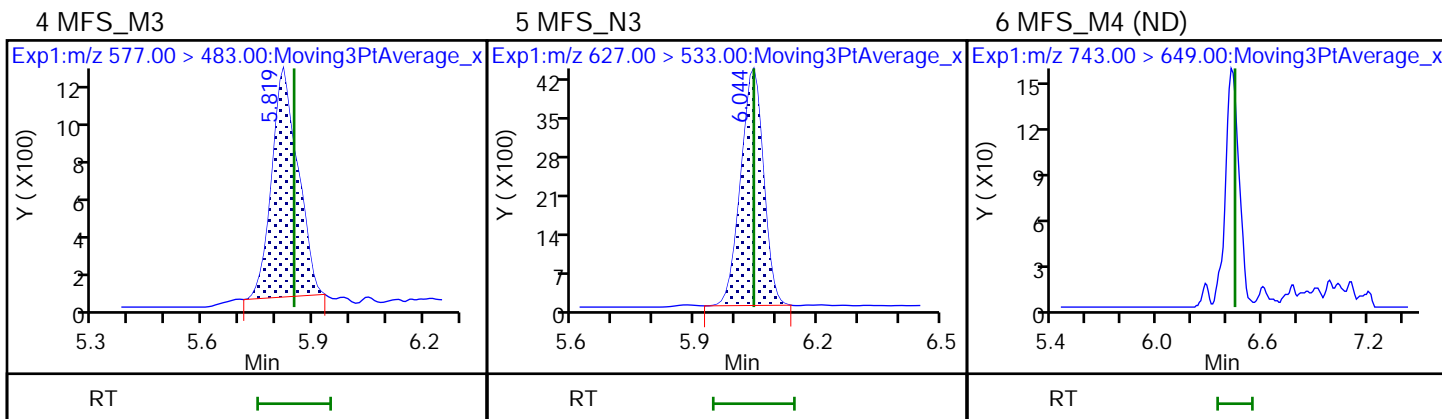
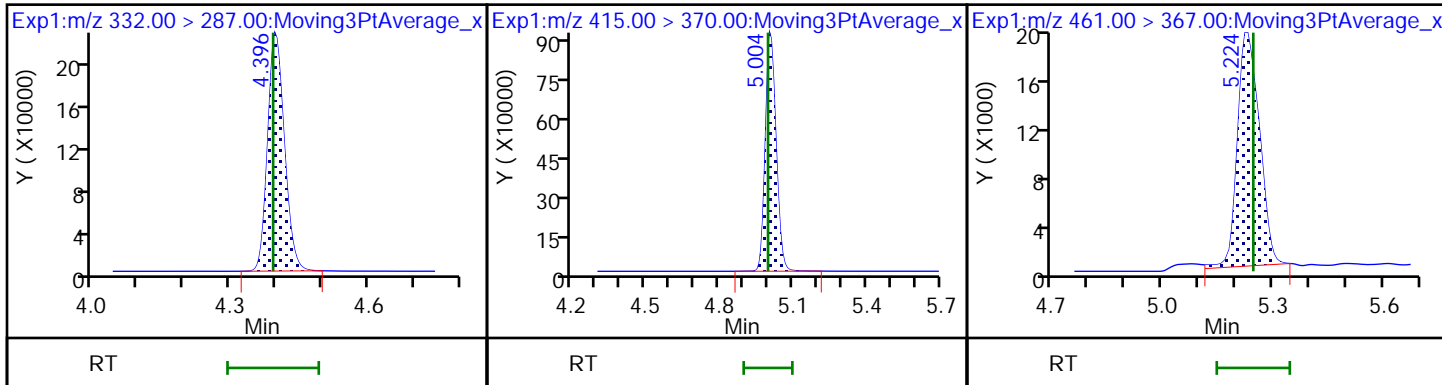
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-118D Lab Sample ID: 410-90529-3

Matrix: Water Lab File ID: 22AUG5MFS-31.d

Analysis Method: MFS Date Collected: 07/08/2022 11:35

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 297.3(mL) Date Analyzed: 08/05/2022 18:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.84	0.17
STL02874	MFS_M3	ND		0.84	0.17
STL02875	MFS_N3	0.29	J	0.84	0.17
STL02876	MFS_M4	ND		0.84	0.42
STL02877	MFS_N4	ND		1.7	0.84
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-31.d
 Lims ID: 410-90529-A-3-A
 Client ID: MW-118D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 18:36:53 ALS Bottle#: 35 Worklist Smp#: 31
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-3-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-031
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:43

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.393	0.001	0.878	579648	5.29	106	2464
* 2 13C2 PFOA	415.00 > 370.00	5.005	4.998	0.007		2712815	5.00		3511
3 MFS_N2	461.00 > 367.00	5.242	5.246	-0.004	1.193	35134	0.0323		18.6
4 MFS_M3	577.00 > 483.00	5.814	5.848	-0.034	1.323	6818	-0.0488		46.3
5 MFS_N3	627.00 > 533.00	6.039	6.044	-0.005	1.374	34198	0.0859		278

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-31.d

Injection Date: 05-Aug-2022 18:36:53

Instrument ID: 30733

Lims ID: 410-90529-A-3-A

Lab Sample ID: 410-90529-3

Client ID: MW-118D

Operator ID: US19_USR_INS20260

ALS Bottle#: 35 Worklist Smp#: 31

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

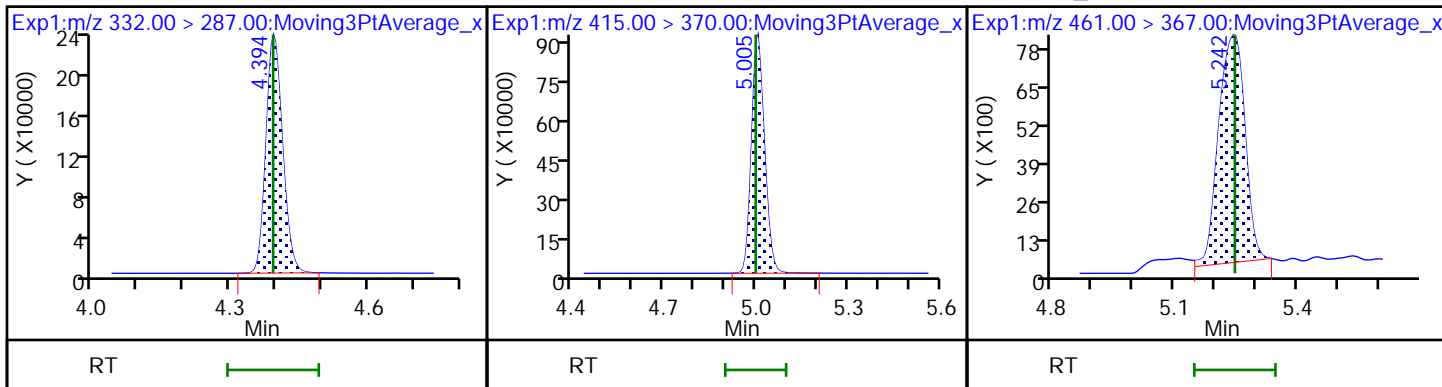
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

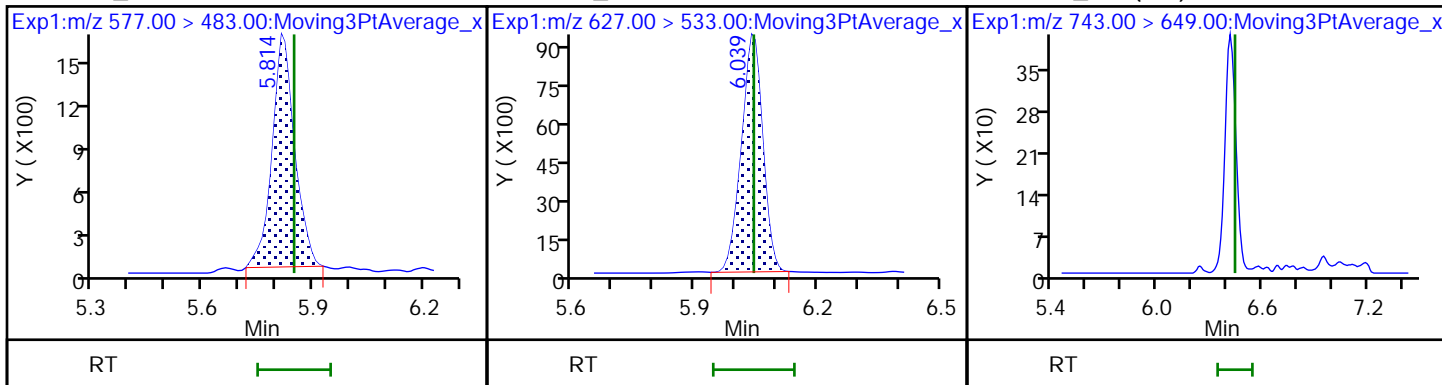
3 MFS_N2



4 MFS_M3

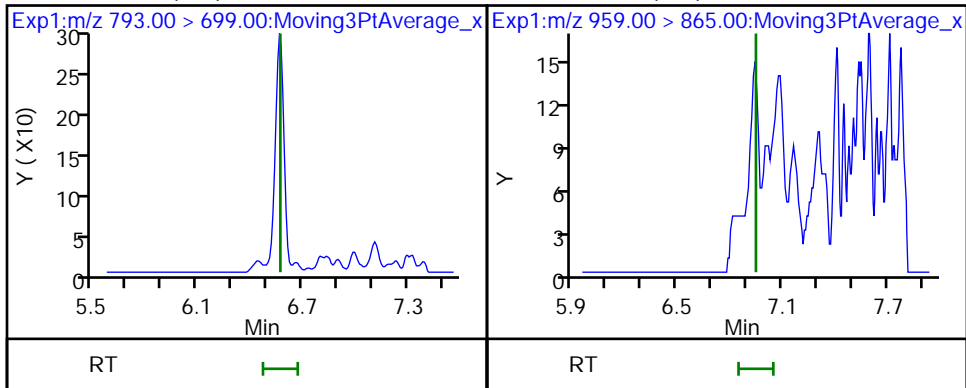
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-101S Lab Sample ID: 410-90529-4

Matrix: Water Lab File ID: 22AUG5MFS-32.d

Analysis Method: MFS Date Collected: 07/08/2022 10:25

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 277.4(mL) Date Analyzed: 08/05/2022 18:49

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	16		0.90	0.18
STL02874	MFS_M3	ND		0.90	0.18
STL02875	MFS_N3	ND		0.90	0.18
STL02876	MFS_M4	ND		0.90	0.45
STL02877	MFS_N4	ND		1.8	0.90
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	122		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-32.d
 Lims ID: 410-90529-A-4-A
 Client ID: MW-101S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 18:49:27 ALS Bottle#: 36 Worklist Smp#: 32
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-4-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-032
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:47
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.397	4.393	0.004	0.879	655420	6.10	122	3099
* 2 13C2 PFOA	415.00 > 370.00	5.004	4.998	0.006		2660318	5.00		3123
3 MFS_N2	461.00 > 367.00	5.230	5.246	-0.016	1.189	1558906	4.40		781
5 MFS_N3	627.00 > 533.00	6.039	6.044	-0.005	1.373	7268	-0.0162		62.3

QC Flag Legend

Processing Flags

Reagents:

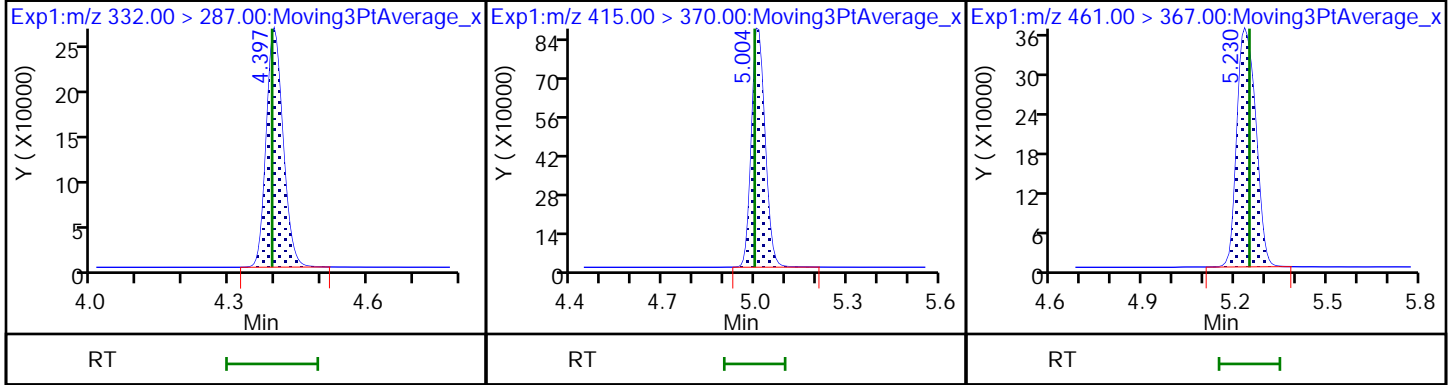
PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-32.d
Injection Date: 05-Aug-2022 18:49:27 Instrument ID: 30733
Lims ID: 410-90529-A-4-A Lab Sample ID: 410-90529-4
Client ID: MW-101S
Operator ID: US19_USR_INS20260 ALS Bottle#: 36 Worklist Smp#: 32
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

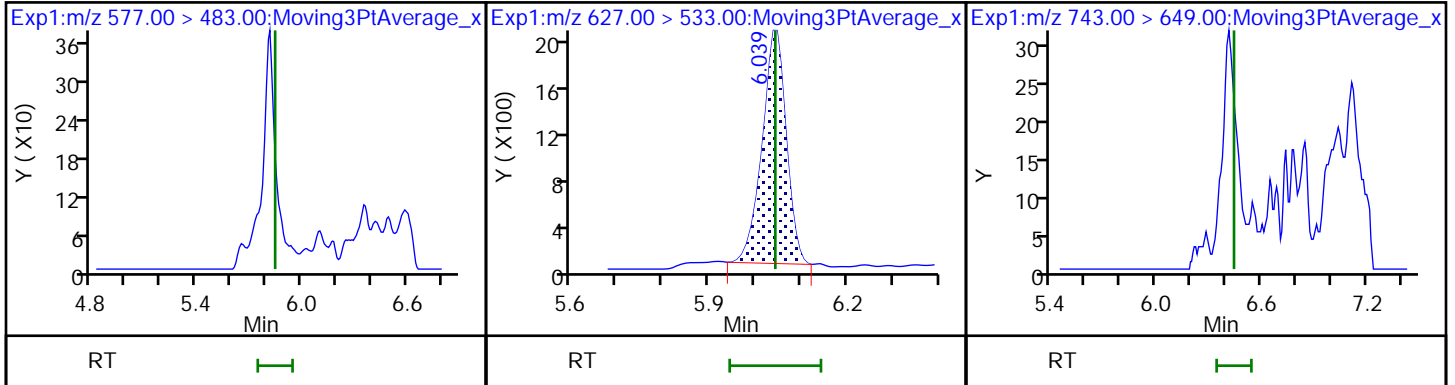
3 MFS_N2



4 MFS_M3 (ND)

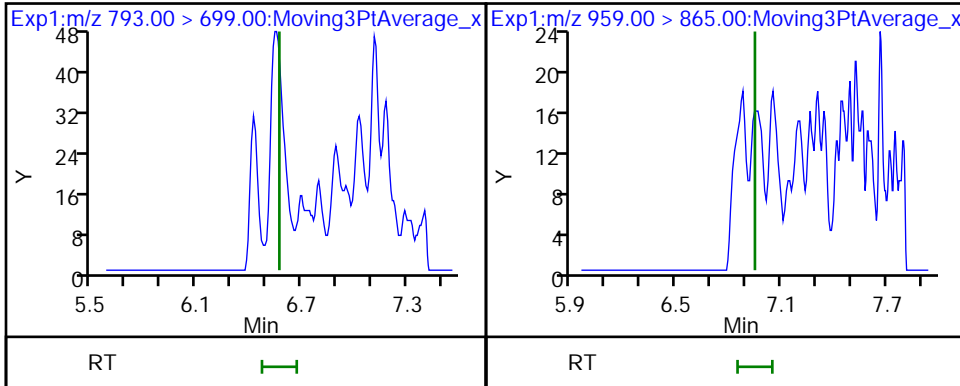
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-101D Lab Sample ID: 410-90529-5

Matrix: Water Lab File ID: 22AUG5MFS-33.d

Analysis Method: MFS Date Collected: 07/08/2022 12:50

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 270.6(mL) Date Analyzed: 08/05/2022 19:02

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	15		0.92	0.18
STL02874	MFS_M3	2.2		0.92	0.18
STL02875	MFS_N3	9.6		0.92	0.18
STL02876	MFS_M4	ND		0.92	0.46
STL02877	MFS_N4	ND		1.8	0.92
STL02888	MFS_N5	ND		2.8	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	88		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-33.d
 Lims ID: 410-90529-A-5-A
 Client ID: MW-101D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 19:02:01 ALS Bottle#: 37 Worklist Smp#: 33
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-5-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-033
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:52
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.402	4.393	0.009	0.878	499024	4.40	88.0	2166
* 2 13C2 PFOA	415.00 > 370.00	5.012	4.998	0.014		2809446	5.00		3315
3 MFS_N2	461.00 > 367.00	5.228	5.246	-0.018	1.188	1114584	4.13		768
4 MFS_M3	577.00 > 483.00	5.814	5.848	-0.034	1.321	133860	0.5848		551
5 MFS_N3	627.00 > 533.00	6.047	6.044	0.003	1.374	617552	2.60		2379
6 MFS_M4	743.00 > 649.00	6.414	6.442	-0.028	1.457	1811	-0.0488		51.2
7 MFS_N4	793.00 > 699.00	6.568	6.573	-0.005	1.492	2746	-0.0832		63.8

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-33.d

Injection Date: 05-Aug-2022 19:02:01

Instrument ID: 30733

Lims ID: 410-90529-A-5-A

Lab Sample ID: 410-90529-5

Client ID: MW-101D

Operator ID: US19_USR_INS20260

ALS Bottle#: 37

Worklist Smp#: 33

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

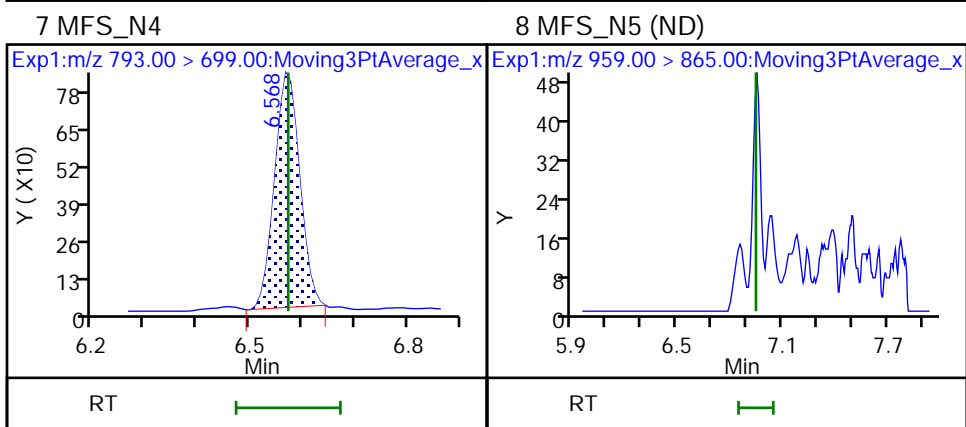
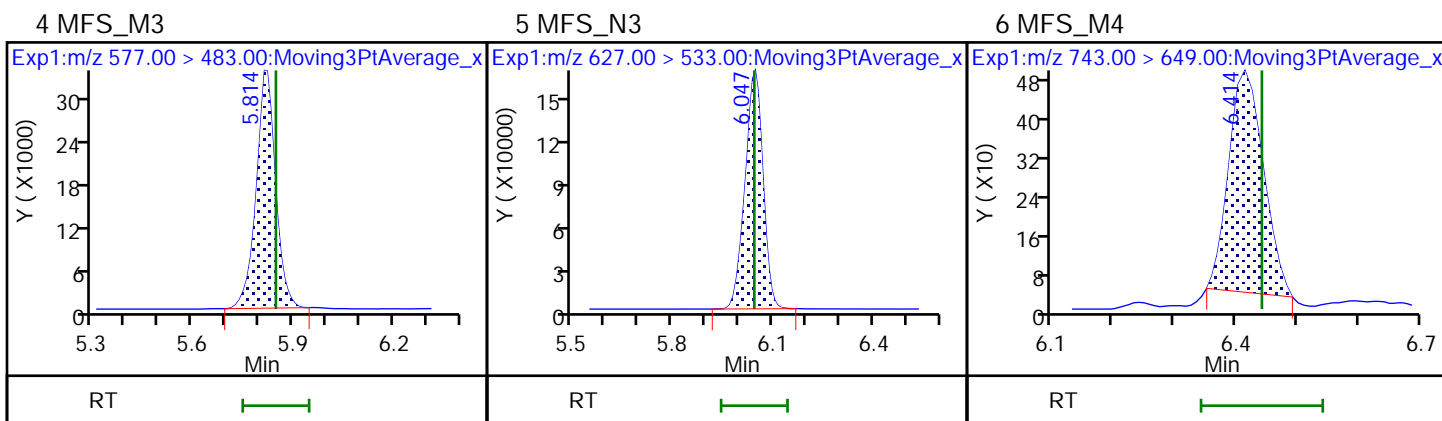
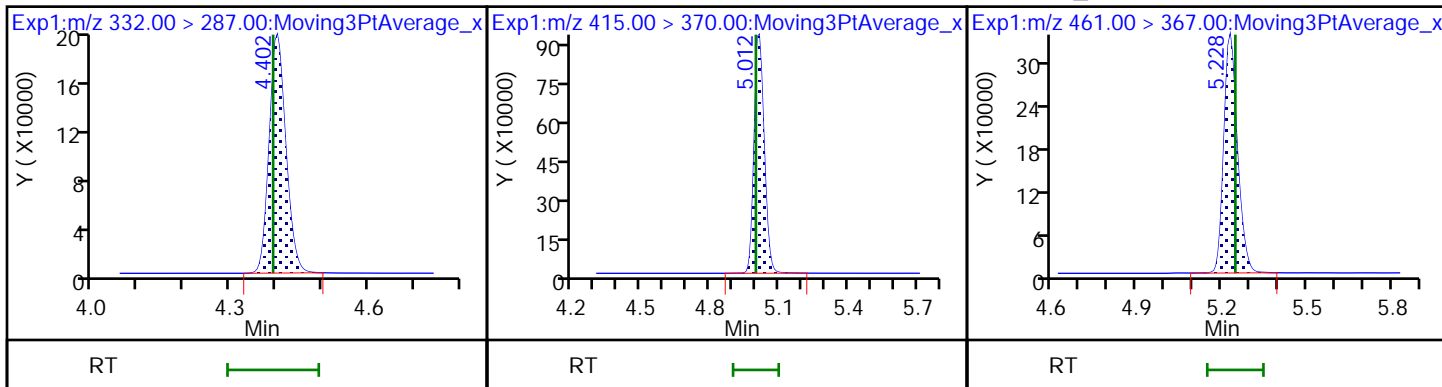
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-107S Lab Sample ID: 410-90529-6

Matrix: Water Lab File ID: 22AUG5MFS-34.d

Analysis Method: MFS Date Collected: 07/08/2022 14:30

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 295.7(mL) Date Analyzed: 08/05/2022 19:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.85	0.17
STL02874	MFS_M3	ND		0.85	0.17
STL02875	MFS_N3	1.2		0.85	0.17
STL02876	MFS_M4	ND		0.85	0.42
STL02877	MFS_N4	ND		1.7	0.85
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	115		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-34.d
 Lims ID: 410-90529-A-6-A
 Client ID: MW-107S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 19:15:50 ALS Bottle#: 38 Worklist Smp#: 34
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-6-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-034
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:03
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.396	4.393	0.003	0.879	570311	5.74	115	2608
* 2 13C2 PFOA	415.00 > 370.00	5.003	4.998	0.005		2461321	5.00		2993
3 MFS_N2	461.00 > 367.00	5.252	5.246	0.006	1.195	34196	0.0311	19.2	M
4 MFS_M3	577.00 > 483.00	5.818	5.848	-0.030	1.323	28125	0.0440		174
5 MFS_N3	627.00 > 533.00	6.043	6.044	-0.001	1.375	106019	0.3565		777
7 MFS_N4	793.00 > 699.00	6.572	6.573	-0.001	1.495	3065	-0.0837		71.3

QC Flag Legend

Processing Flags
 Review Flags
 M - Manually Integrated

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-34.d

Injection Date: 05-Aug-2022 19:15:50

Instrument ID: 30733

Lims ID: 410-90529-A-6-A

Lab Sample ID: 410-90529-6

Client ID: MW-107S

Operator ID: US19_USR_INS20260

ALS Bottle#: 38

Worklist Smp#: 34

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

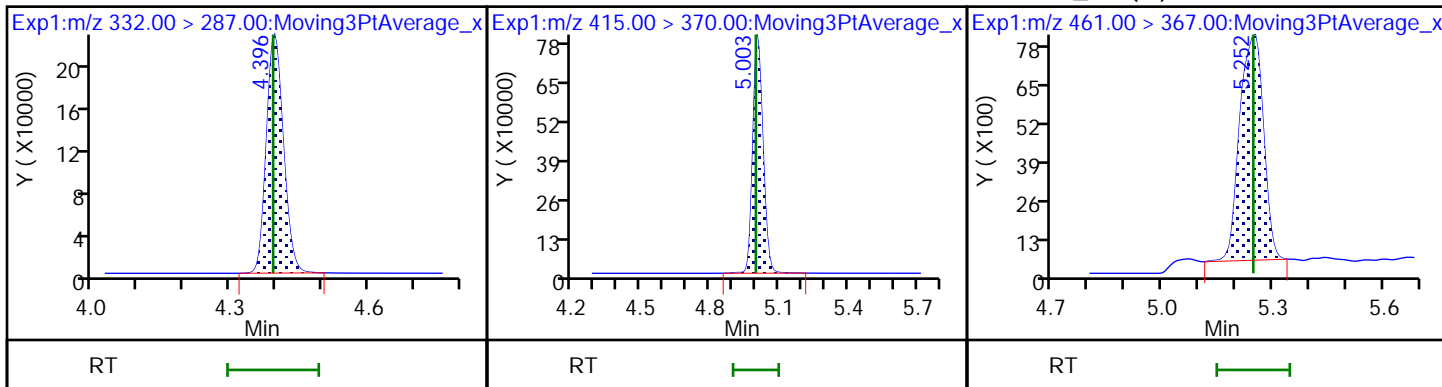
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

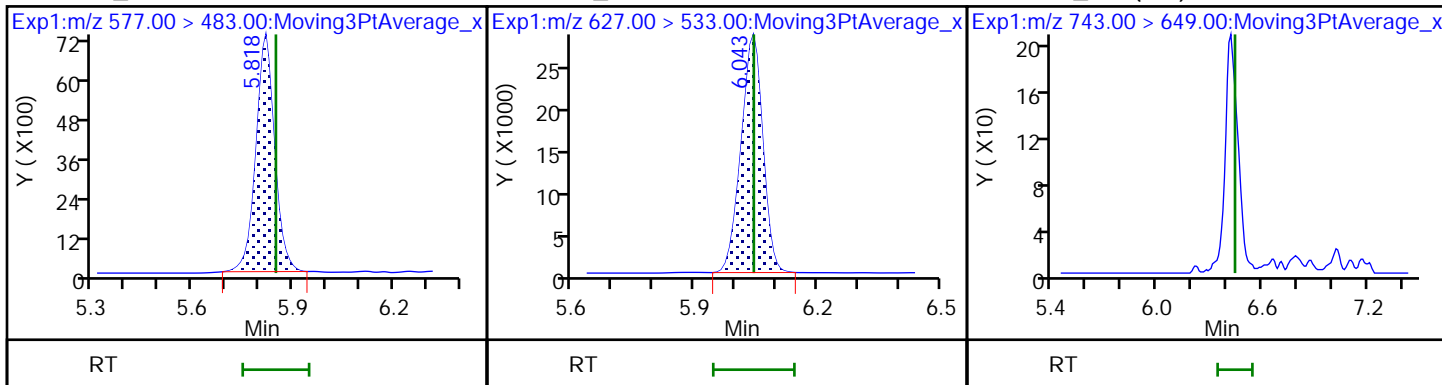
3 MFS_N2 (M)



4 MFS_M3

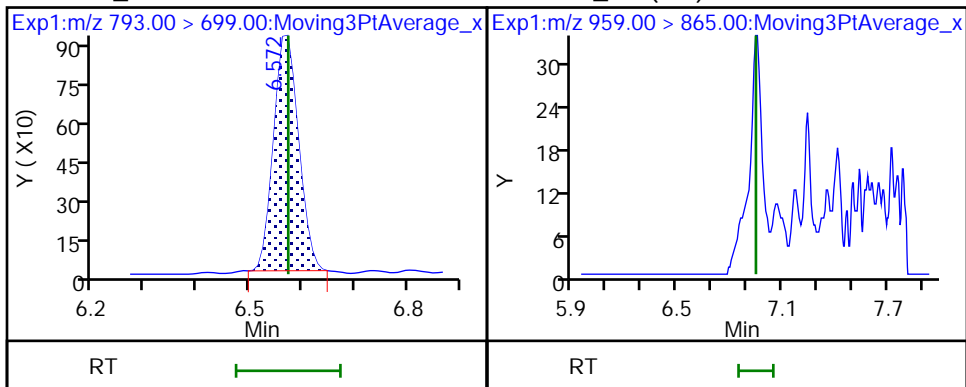
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

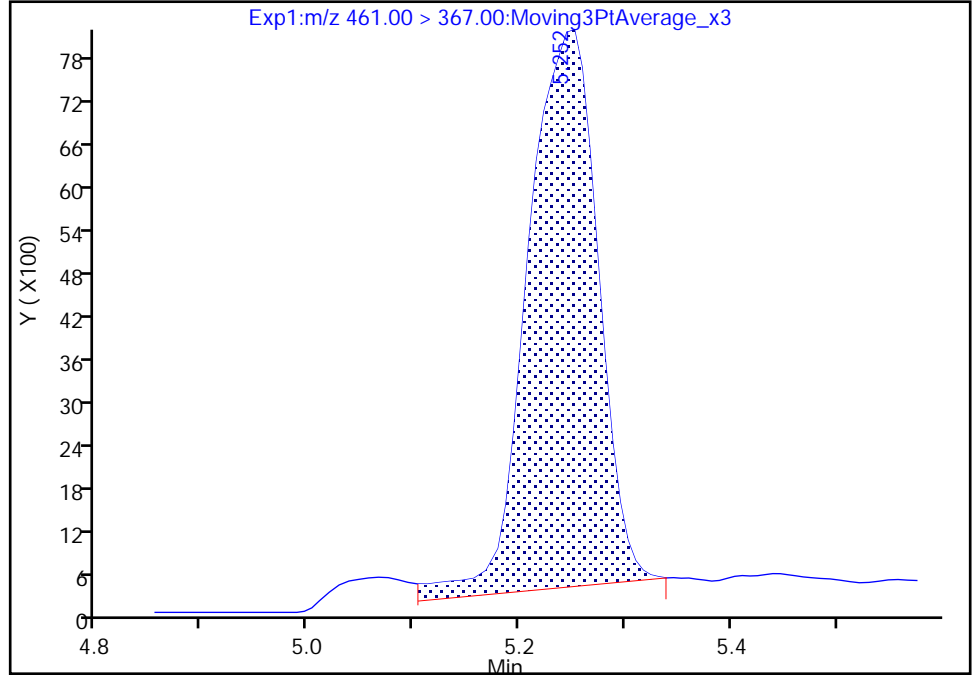
Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-34.d
Injection Date: 05-Aug-2022 19:15:50 Instrument ID: 30733
Lims ID: 410-90529-A-6-A Lab Sample ID: 410-90529-6
Client ID: MW-107S
Operator ID: US19_USR_INS20260 ALS Bottle#: 38 Worklist Smp#: 34
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

3 MFS_N2, CAS: STL02873

Signal: 1

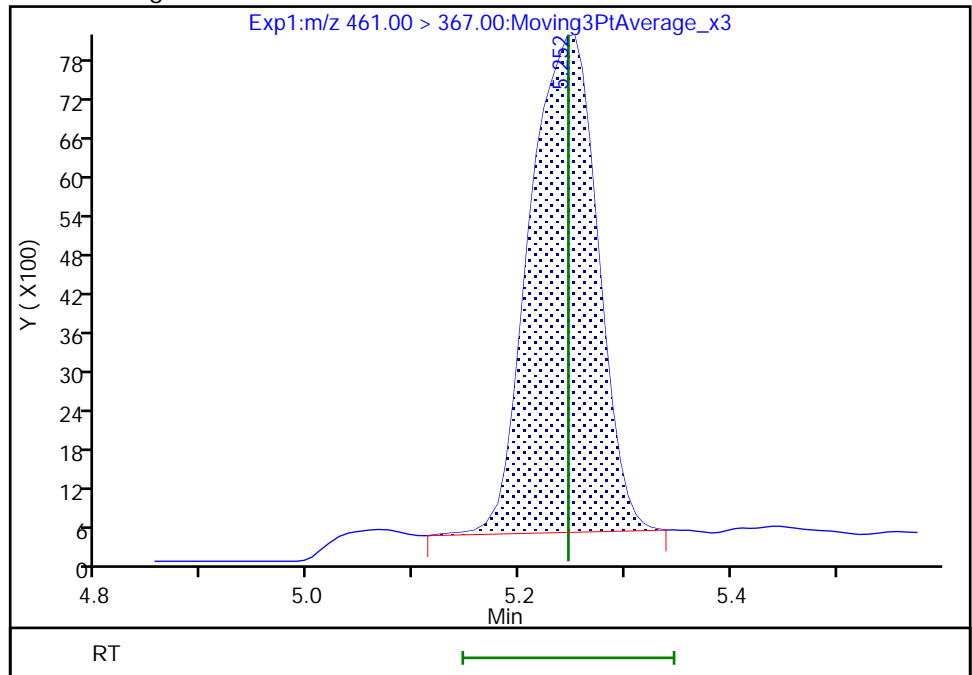
RT: 5.25
Area: 35835
Amount: 0.036494
Amount Units: ng/ml

Processing Integration Results



RT: 5.25
Area: 34196
Amount: 0.031077
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:18:00
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-107D Lab Sample ID: 410-90529-7

Matrix: Water Lab File ID: 22AUG5MFS-35.d

Analysis Method: MFS Date Collected: 07/08/2022 14:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 311.7(mL) Date Analyzed: 08/05/2022 19:28

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	2.2		0.80	0.16
STL02874	MFS_M3	0.26	J	0.80	0.16
STL02875	MFS_N3	1.4		0.80	0.16
STL02876	MFS_M4	ND		0.80	0.40
STL02877	MFS_N4	ND		1.6	0.80
STL02888	MFS_N5	ND		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	126		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-35.d
 Lims ID: 410-90529-A-7-A
 Client ID: MW-107D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 19:28:28 ALS Bottle#: 39 Worklist Smp#: 35
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-7-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-035
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:07
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.404	4.393	0.011	0.880	584365	6.32	126	2835
* 2 13C2 PFOA	415.00 > 370.00	5.007	4.998	0.009		2291328	5.00		2620
3 MFS_N2	461.00 > 367.00	5.229	5.246	-0.017	1.188	237523	0.6843		145
4 MFS_M3	577.00 > 483.00	5.817	5.848	-0.031	1.321	37579	0.0810		194
5 MFS_N3	627.00 > 533.00	6.042	6.044	-0.002	1.372	133073	0.4457		848
7 MFS_N4	793.00 > 699.00	6.572	6.573	-0.001	1.492	3956	-0.0778		81.9

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-35.d

Injection Date: 05-Aug-2022 19:28:28

Instrument ID: 30733

Lims ID: 410-90529-A-7-A

Lab Sample ID: 410-90529-7

Client ID: MW-107D

Operator ID: US19_USR_INS20260

ALS Bottle#: 39 Worklist Smp#: 35

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

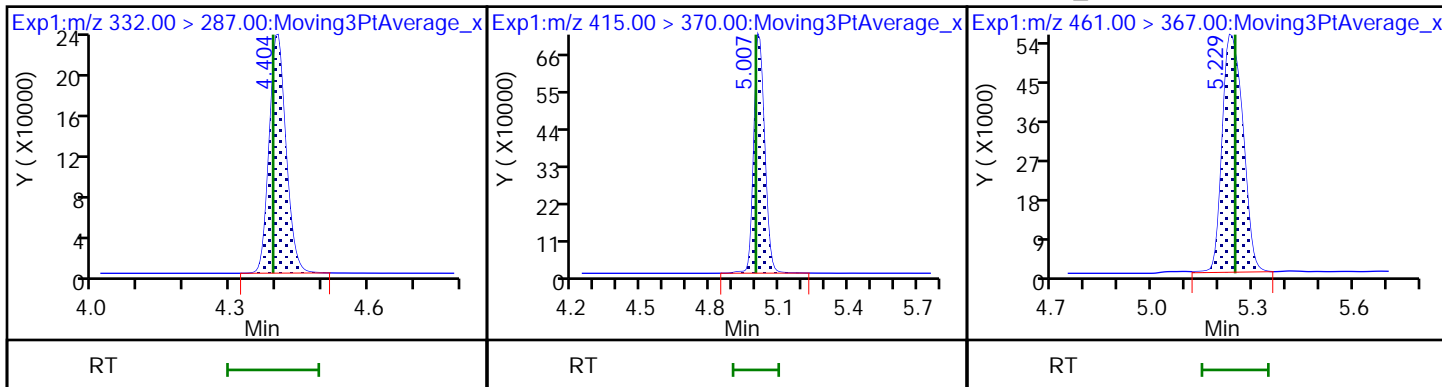
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

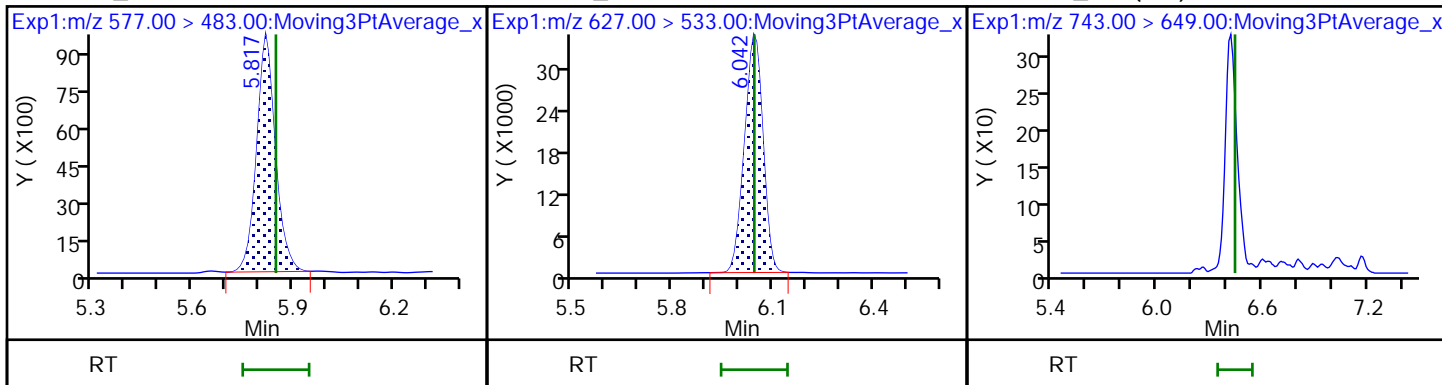
3 MFS_N2



4 MFS_M3

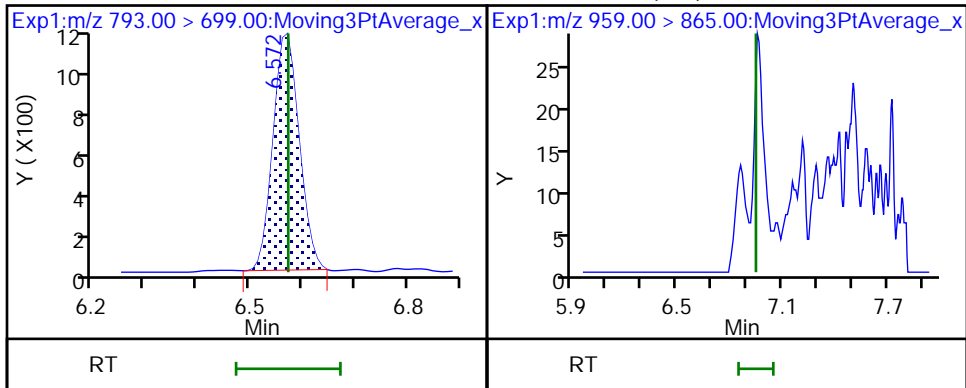
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S Lab Sample ID: 410-90529-8

Matrix: Water Lab File ID: 22AUG5MFS-36.d

Analysis Method: MFS Date Collected: 07/08/2022 16:00

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 278.1(mL) Date Analyzed: 08/05/2022 19:41

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	0.76	J	0.90	0.18
STL02875	MFS_N3	ND		0.90	0.18
STL02876	MFS_M4	ND		0.90	0.45
STL02877	MFS_N4	ND		1.8	0.90
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	124		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-36.d
 Lims ID: 410-90529-A-8-A
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 19:41:02 ALS Bottle#: 40 Worklist Smp#: 36
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-8-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-036
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:24
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.405	4.393	0.012	0.879	615488	6.22	124	2747
* 2 13C2 PFOA	415.00 > 370.00	5.011	4.998	0.013		2449960	5.00		3316
3 MFS_N2	461.00 > 367.00	5.259	5.246	0.013	1.194	48380361	148.1	13801	E
4 MFS_M3	577.00 > 483.00	5.827	5.848	-0.021	1.323	71788	0.2103	270	
5 MFS_N3	627.00 > 533.00	6.052	6.044	0.008	1.374	23685	0.0422	191	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-36.d

Injection Date: 05-Aug-2022 19:41:02

Instrument ID: 30733

Lims ID: 410-90529-A-8-A

Lab Sample ID: 410-90529-8

Client ID: MW-109S

Operator ID: US19_USR_INS20260

ALS Bottle#: 40

Worklist Smp#: 36

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

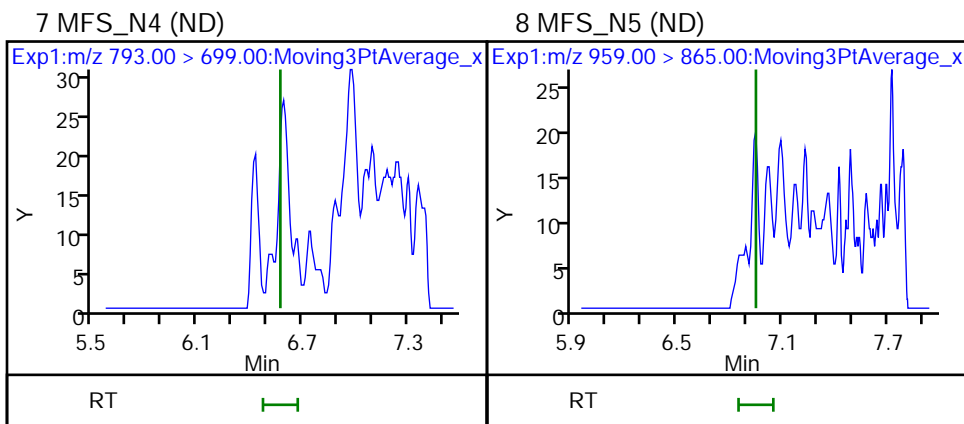
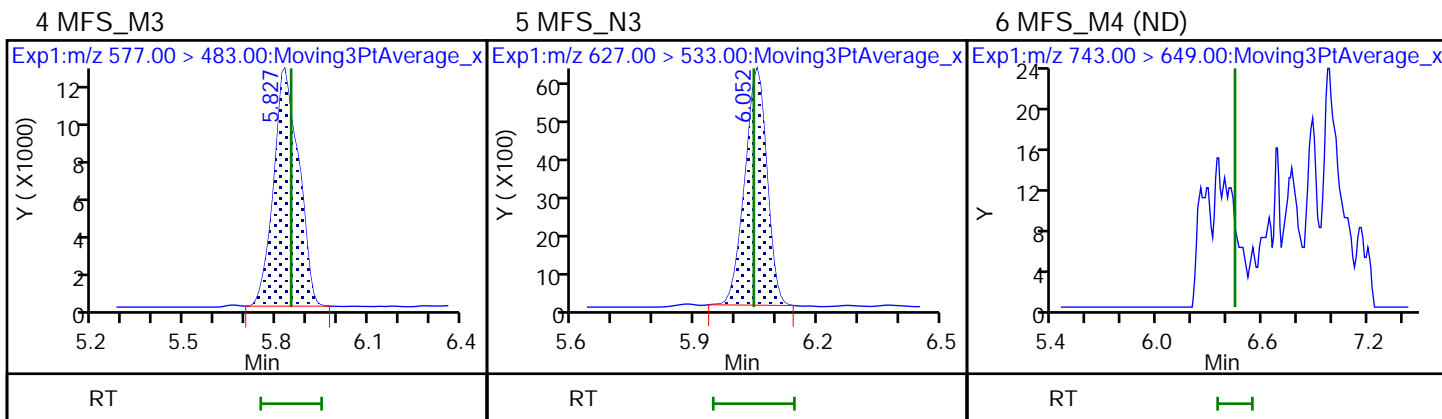
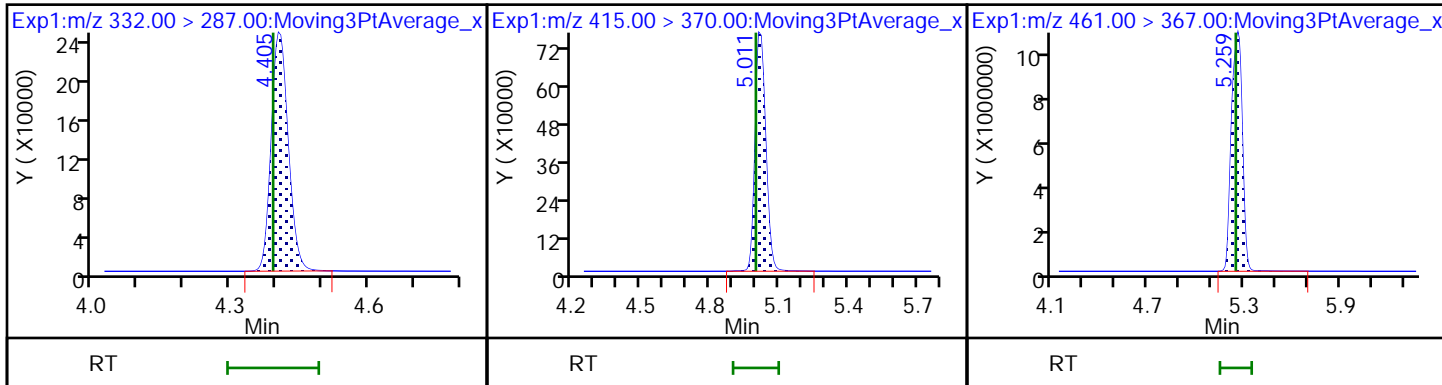
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109S DL Lab Sample ID: 410-90529-8 DL

Matrix: Water Lab File ID: 22AUG10MFS-02.d

Analysis Method: MFS Date Collected: 07/08/2022 16:00

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 278.1(mL) Date Analyzed: 08/11/2022 01:30

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	730		9.0	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	122		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-02.d
 Lims ID: 410-90529-A-8-A
 Client ID: MW-109S
 Sample Type: Client
 Inject. Date: 11-Aug-2022 01:30:48 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90529-A-8-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0063843-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 11-Aug-2022 06:26:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:26:32
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.394	-0.009	0.878	80442	0.6106	122	234
* 2 13C2 PFOA	415.00 > 370.00	4.992	4.999	-0.007		3262387	5.00		337
3 MFS_N2	461.00 > 367.00	5.236	5.243	-0.007	1.194	8698192	20.3		4114

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-02.d

Injection Date: 11-Aug-2022 01:30:48

Instrument ID: 30733

Lims ID: 410-90529-A-8-A

Lab Sample ID: 410-90529-8

Client ID: MW-109S

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

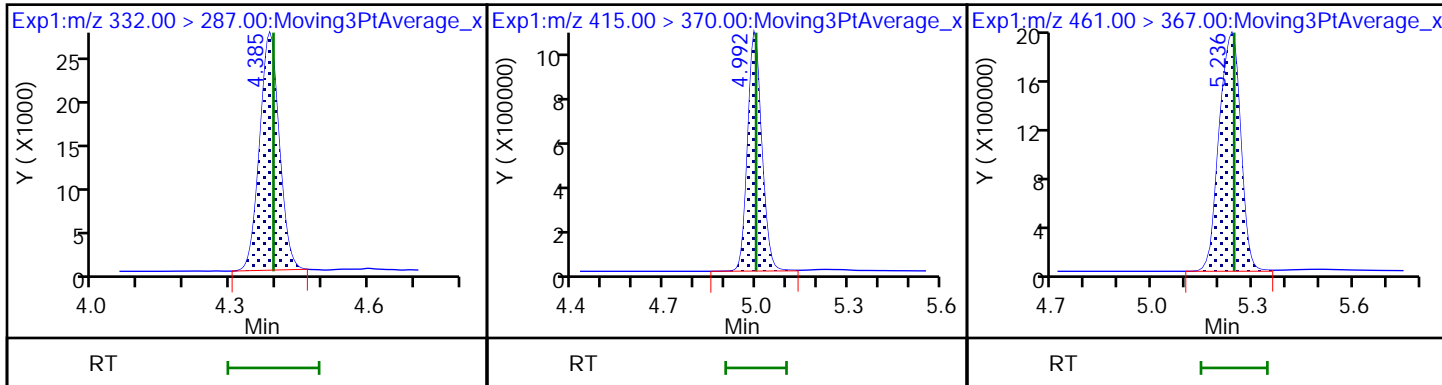
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

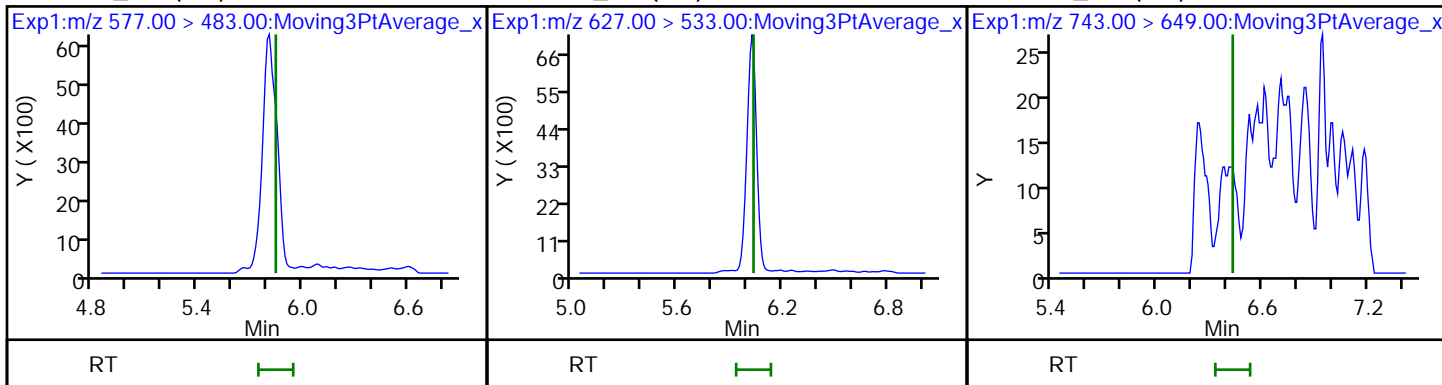
3 MFS_N2



4 MFS_M3 (ND)

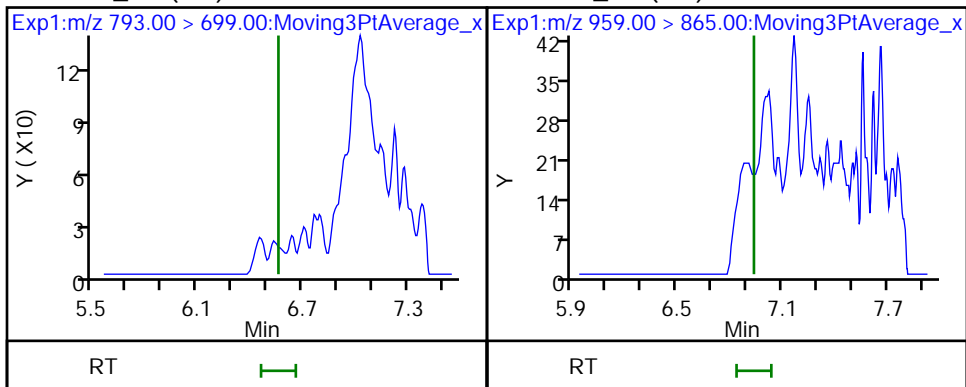
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-109D Lab Sample ID: 410-90529-9

Matrix: Water Lab File ID: 22AUG5MFS-37.d

Analysis Method: MFS Date Collected: 07/08/2022 15:50

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 273.7(mL) Date Analyzed: 08/05/2022 19:53

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.91	0.18
STL02874	MFS_M3	ND		0.91	0.18
STL02875	MFS_N3	ND		0.91	0.18
STL02876	MFS_M4	ND		0.91	0.46
STL02877	MFS_N4	ND		1.8	0.91
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-37.d
 Lims ID: 410-90529-A-9-A
 Client ID: MW-109D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 19:53:36 ALS Bottle#: 41 Worklist Smp#: 37
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-9-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-037
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:27
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.402	4.393	0.009	0.878	549686	4.98	99.5	2671
* 2 13C2 PFOA	415.00 > 370.00	5.012	4.998	0.014		2735492	5.00		3386
3 MFS_N2	461.00 > 367.00	5.257	5.246	0.011	1.194	10903	-0.0446		5.4

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-37.d

Injection Date: 05-Aug-2022 19:53:36

Instrument ID: 30733

Lims ID: 410-90529-A-9-A

Lab Sample ID: 410-90529-9

Client ID: MW-109D

Operator ID: US19_USR_INS20260

ALS Bottle#: 41

Worklist Smp#: 37

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

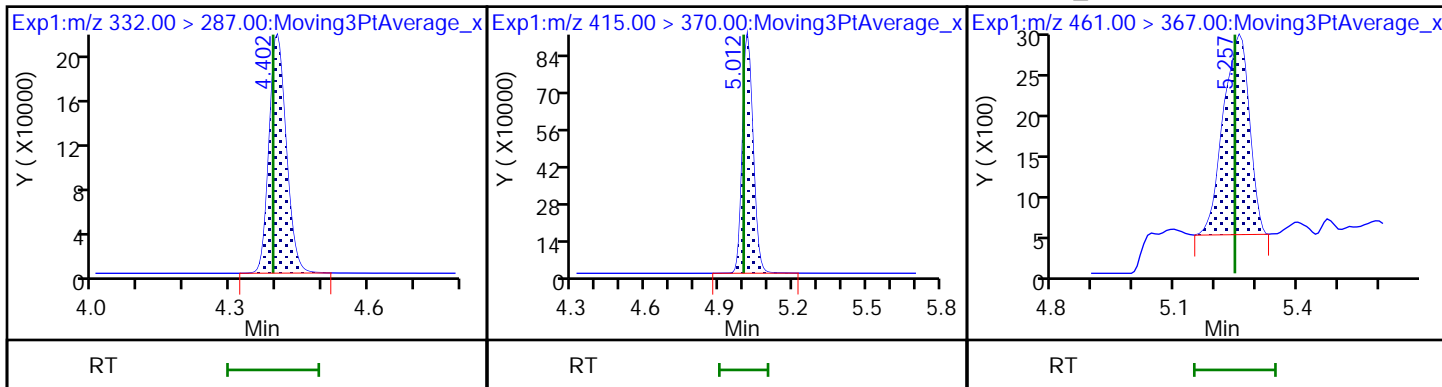
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

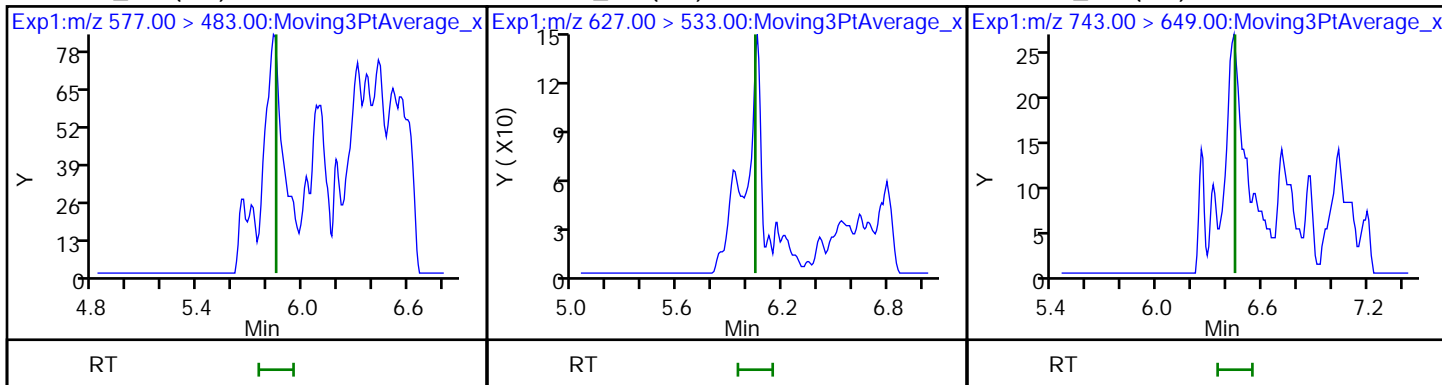
3 MFS_N2



4 MFS_M3 (ND)

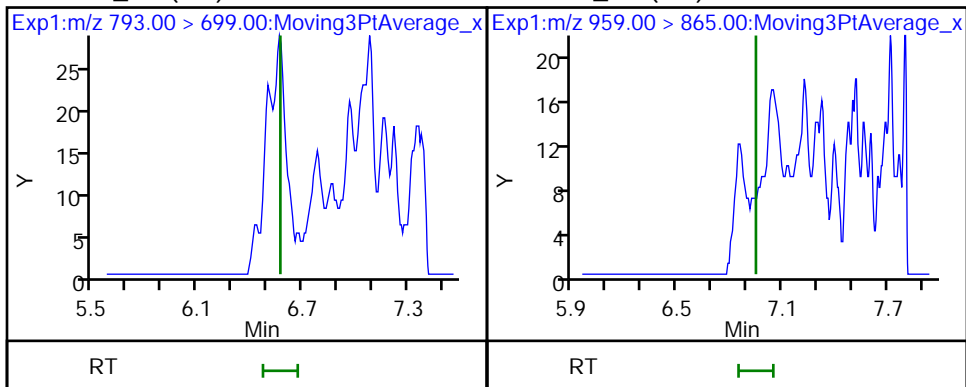
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_070822 Lab Sample ID: 410-90529-10

Matrix: Water Lab File ID: 22AUG5MFS-38.d

Analysis Method: MFS Date Collected: 07/08/2022 10:20

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 284.3(mL) Date Analyzed: 08/05/2022 20:06

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.88	0.18
STL02874	MFS_M3	ND		0.88	0.18
STL02875	MFS_N3	ND		0.88	0.18
STL02876	MFS_M4	ND		0.88	0.44
STL02877	MFS_N4	ND		1.8	0.88
STL02888	MFS_N5	ND		2.6	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-38.d
 Lims ID: 410-90529-A-10-A
 Client ID: EB_070822
 Sample Type: Client
 Inject. Date: 05-Aug-2022 20:06:14 ALS Bottle#: 42 Worklist Smp#: 38
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-10-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-038
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:31
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.406	4.393	0.013	0.879	713840	5.34	107	3176
* 2 13C2 PFOA	415.00 > 370.00	5.012	4.998	0.014		3308178	5.00		3918

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-38.d

Injection Date: 05-Aug-2022 20:06:14

Instrument ID: 30733

Lims ID: 410-90529-A-10-A

Lab Sample ID: 410-90529-10

Client ID: EB_070822

Operator ID: US19_USR_INS20260

ALS Bottle#: 42

Worklist Smp#: 38

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

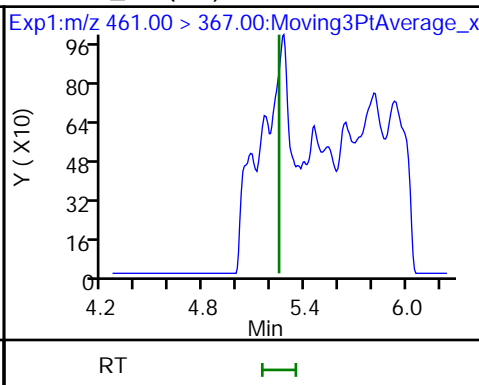
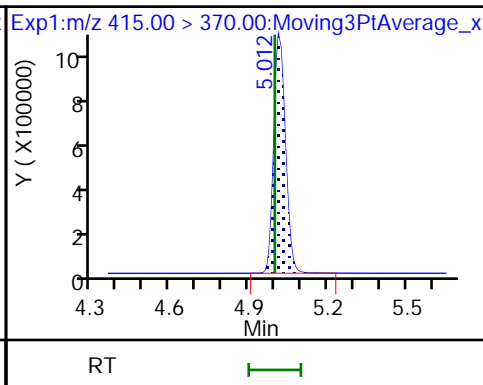
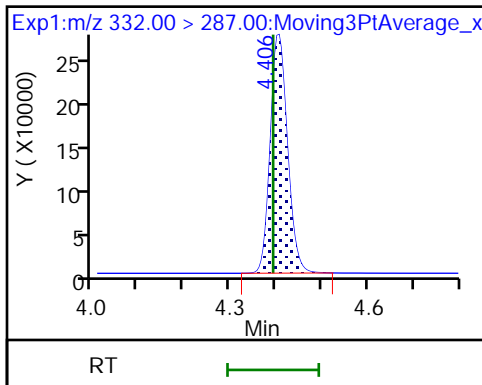
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

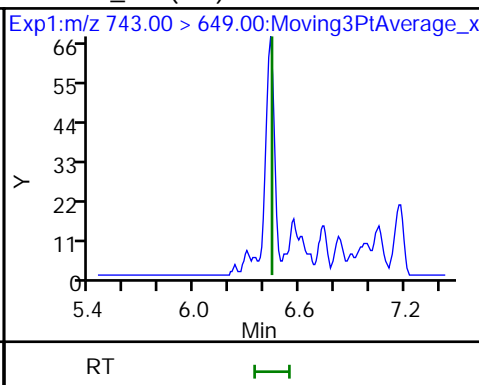
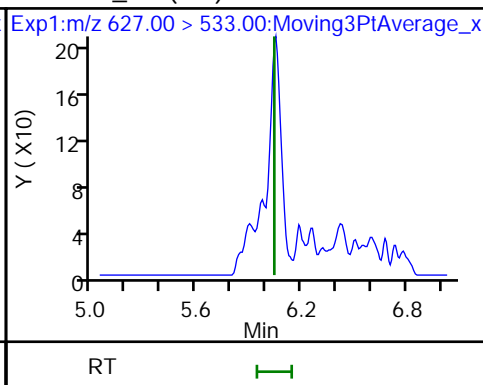
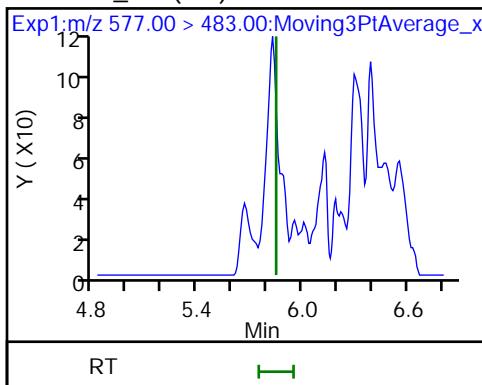
3 MFS_N2 (ND)



4 MFS_M3 (ND)

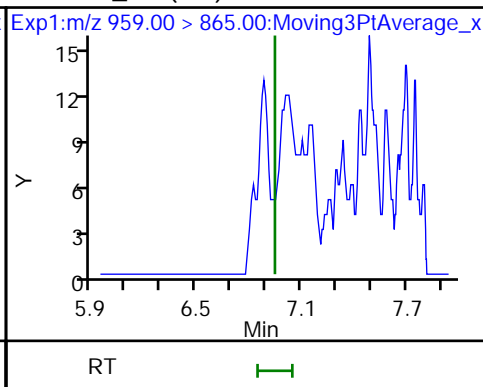
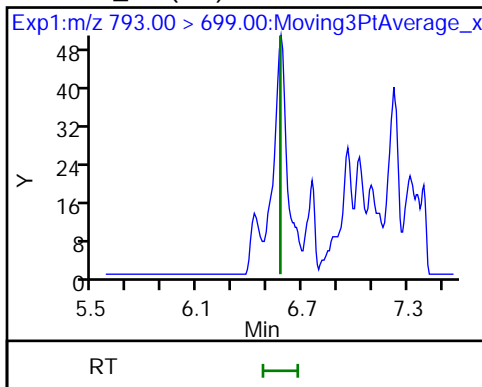
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	3.1413 2.8445	2.9008 2.4887	2.9557	2.9518	2.9432	L1ID	0.217 4	2.652 3						0.9940		0.9900	
MFS_M3	2.4507 2.1452	2.2440 1.9254	2.1663	2.2241	2.1896	L1ID	0.157 6	2.023 9						0.9960		0.9900	
MFS_N3	2.6235 2.4669	2.3256 2.2451	2.4411	2.4745	2.5266	L1ID	0.093 4	2.345 2						0.9970		0.9900	
MFS_M4	1.1959 1.1147	1.1009 0.9770	1.1206	1.1335	1.1472	L1ID	0.068 8	1.039 1						0.9950		0.9900	
MFS_N4	1.5026 1.1293	1.3814 +++++	1.3612	1.3436	1.2213	L1ID	0.124 8	1.169 8						0.9960		0.9900	
MFS_N5	1.3024 1.1832	1.1960 +++++	1.2566	1.3302	1.3063	L1ID	0.027 6	1.229 0						0.9970		0.9900	
13C3 HFPO-DA	0.2006 0.1992	0.2065 0.2105	0.1979	0.1942	0.2044	Ave		0.201 9			2.8						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		L1ID	95417 8499793	192513 16896802	378434	1780473	3848185	0.241 24.1	0.482 48.2	0.964	4.82	9.64
MFS_M3		L1ID	76048 6548749	152139 13354811	283357	1370537	2924780	0.246 24.6	0.492 49.2	0.985	4.92	9.85
MFS_N3		L1ID	82777 7657320	160319 15833576	324662	1550403	3431578	0.250 25.0	0.501 50.1	1.00	5.01	10.0
MFS_M4		L1ID	36993 3392053	74399 6755284	146111	696263	1527454	0.245 24.5	0.491 49.1	0.982	4.91	9.82
MFS_N4		L1ID	47121 3483893	94642 +++++	179924	836694	1648528	0.249 24.9	0.498 +++++	0.995	4.98	9.95
MFS_N5		L1ID	41444 3703732	83147 +++++	168541	840493	1789253	0.252 25.2	0.505 +++++	1.01	5.05	10.1
13C3 HFPO-DA	13PF OA	Ave	630232 620002	688476 704345	664135	625747	678213	5.00 5.00	5.00 5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
L1ID = Linear 1/conc IsoDil

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90529-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-15.6 -6.3	-7.6	2.9	9.6	10.1	6.9	50 30	30	30	30	30	30
MFS_M3	-10.5 -5.0	-4.9	-0.9	8.3	7.4	5.7	50 30	30	30	30	30	30
MFS_N3	-4.1 -4.3	-8.8	0.1	4.7	7.3	5.0	50 30	30	30	30	30	30
MFS_M4	-11.9 -6.1	-7.6	1.1	7.7	9.7	7.0	50 30	30	30	30	30	30
MFS_N4	-14.4 ++++	-3.4	5.6	12.7	3.3	-3.9	50	30	30	30	30	30
MFS_N5	-2.9 ++++	-7.1	0.0	7.8	6.1	-3.8	50	30	30	30	30	30
13C3 HFPO-DA	-0.6						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 05-Aug-2022 08:53:16 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:23

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.387	-0.002	0.877	630232	4.97	99.4	2294
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.996	0.002		3141195	5.00		4882
3 MFS_N2	461.00 > 367.00	5.242	5.239	0.003	1.196	95417	0.2035	84.4	1392
4 MFS_M3	577.00 > 483.00	5.854	5.849	0.005	1.335	76048	0.2202	89.5	446
5 MFS_N3	627.00 > 533.00	6.039	6.036	0.003	1.377	82777	0.2402	95.9	1464
6 MFS_M4	743.00 > 649.00	6.437	6.439	-0.002	1.468	36993	0.2162	88.1	1139
7 MFS_N4	793.00 > 699.00	6.568	6.565	0.003	1.498	47121	0.2129	85.6	1240
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.583	41444	0.2451	97.1	1814

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d

Injection Date: 05-Aug-2022 08:53:16

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

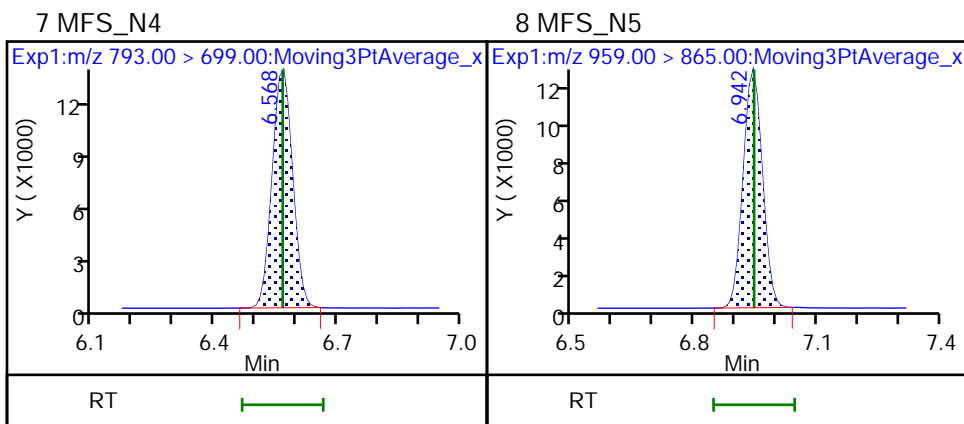
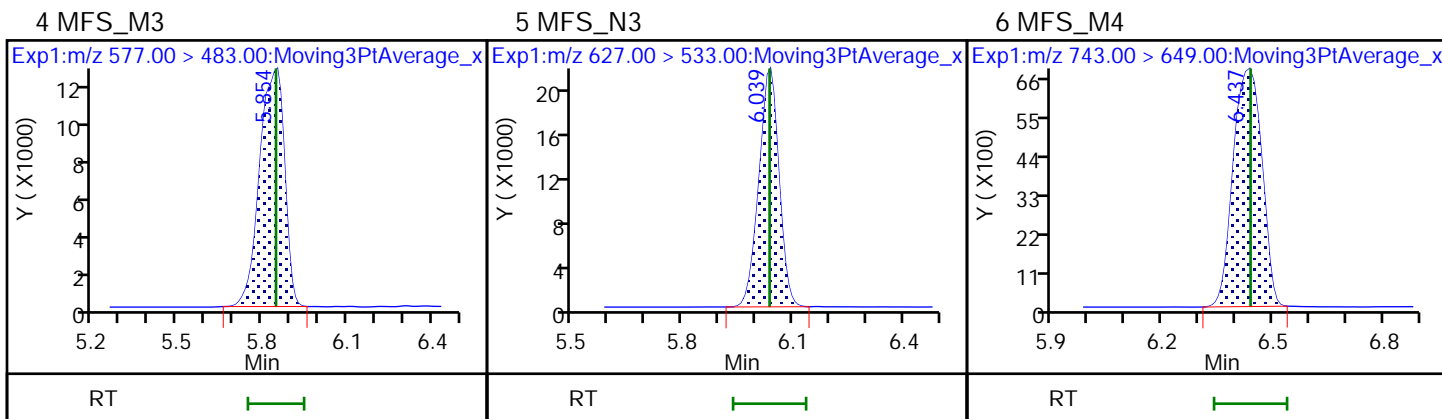
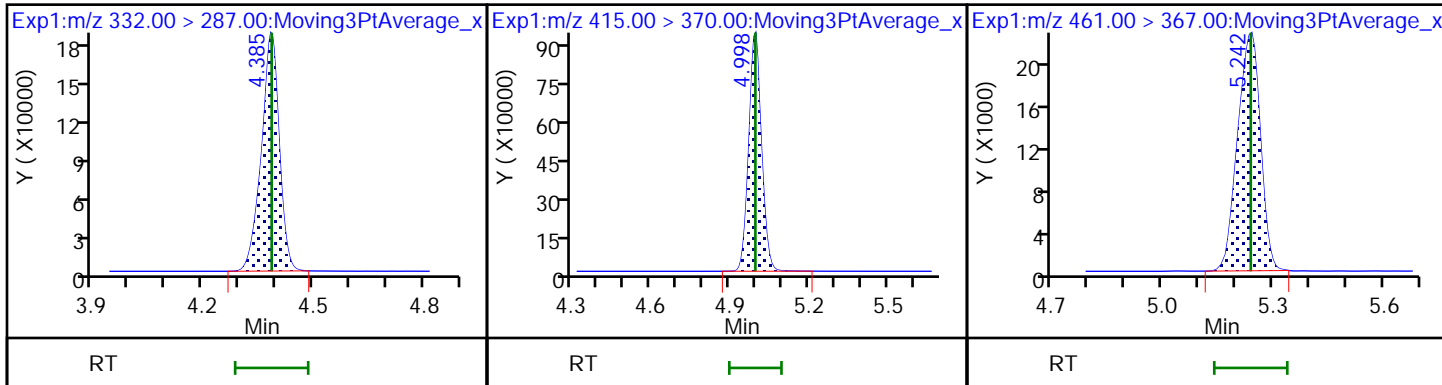
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 05-Aug-2022 09:05:51 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:17

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA

332.00 > 287.00 4.391 4.387 0.004 0.878 688476 5.11 102 2607

* 2 13C2 PFOA

415.00 > 370.00 5.000 4.996 0.004 3333798 5.00 4432

3 MFS_N2

461.00 > 367.00 5.244 5.239 0.005 1.194 192513 0.4452 92.4 2755

4 MFS_M3

577.00 > 483.00 5.848 5.849 -0.001 1.332 152139 0.4681 95.1 712

5 MFS_N3

627.00 > 533.00 6.043 6.036 0.007 1.376 160319 0.4566 91.2 2373

6 MFS_M4

743.00 > 649.00 6.441 6.439 0.002 1.467 74399 0.4537 92.4 1695

7 MFS_N4

793.00 > 699.00 6.572 6.565 0.007 1.497 94642 0.4809 96.6 1980

8 MFS_N5

959.00 > 865.00 6.946 6.944 0.002 1.582 83147 0.4689 92.9 2585

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00010

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d

Injection Date: 05-Aug-2022 09:05:51

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

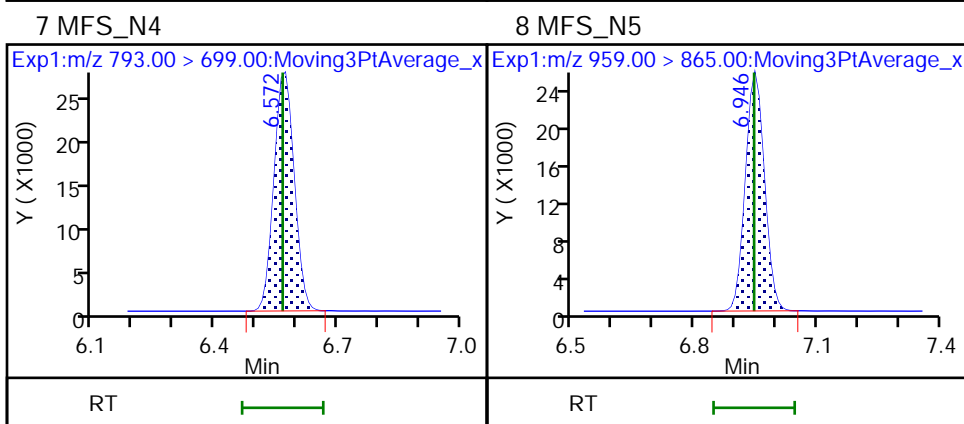
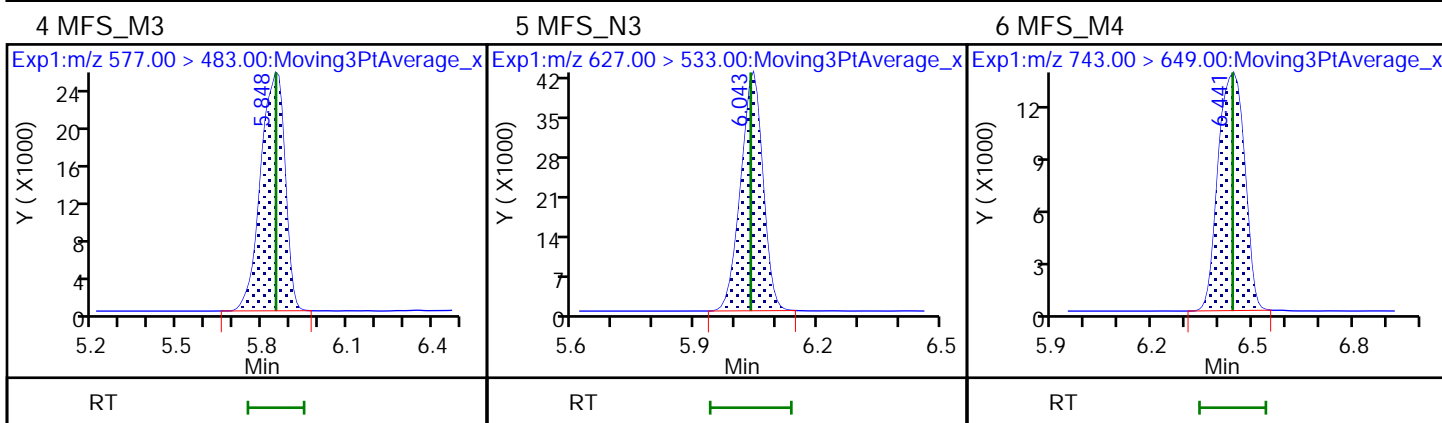
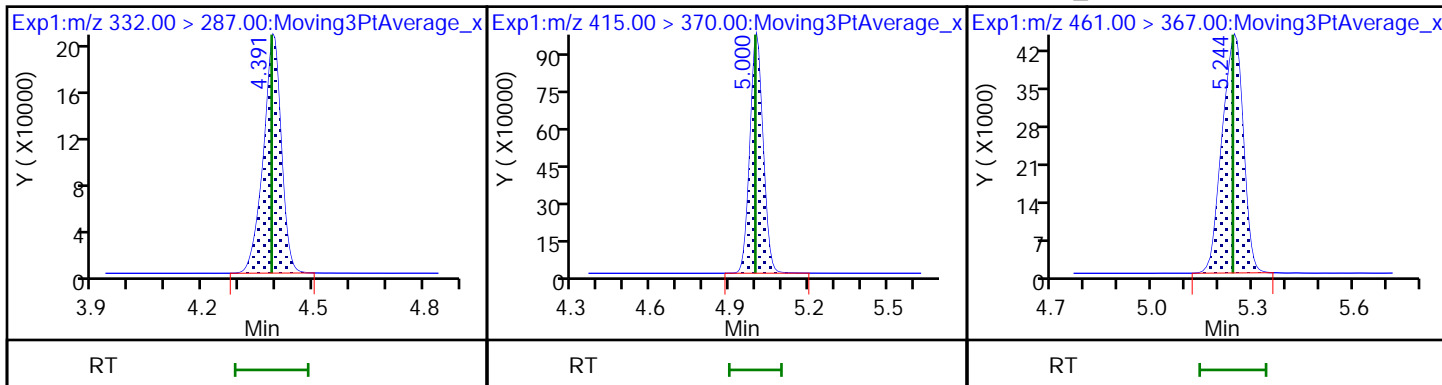
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 05-Aug-2022 09:18:28 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:37 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:13

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.387	4.387	0.0	0.878	664135	4.90	98.0	2525
* 2 13C2 PFOA	415.00 > 370.00	4.997	4.996	0.001		3355597	5.00		5097
3 MFS_N2	461.00 > 367.00	5.238	5.239	-0.001	1.194	378434	0.99	103	4806
4 MFS_M3	577.00 > 483.00	5.849	5.849	0.0	1.333	283357	0.9762	99.1	1154
5 MFS_N3	627.00 > 533.00	6.036	6.036	0.0	1.376	324662	1.00	100	3444
6 MFS_M4	743.00 > 649.00	6.442	6.439	0.003	1.468	146111	0.99	101	2437
7 MFS_N4	793.00 > 699.00	6.564	6.565	-0.001	1.496	179924	1.05	106	3115
8 MFS_N5	959.00 > 865.00	6.945	6.944	0.001	1.583	168541	1.01	100	4762

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d

Injection Date: 05-Aug-2022 09:18:28

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

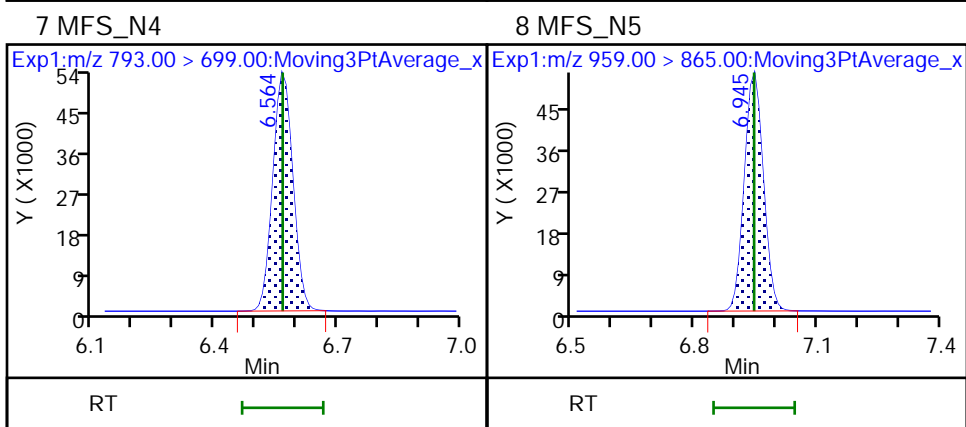
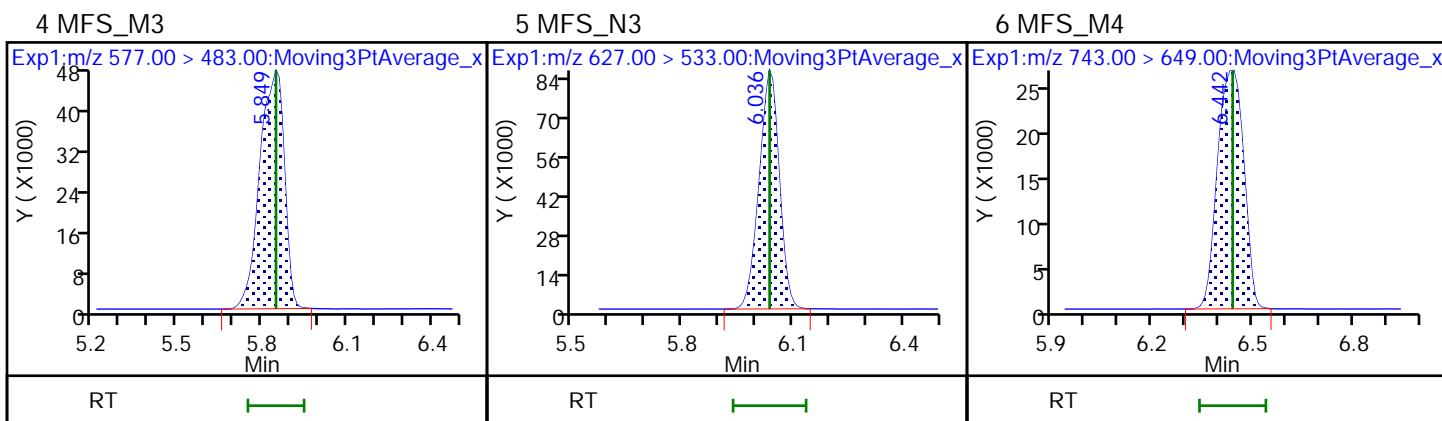
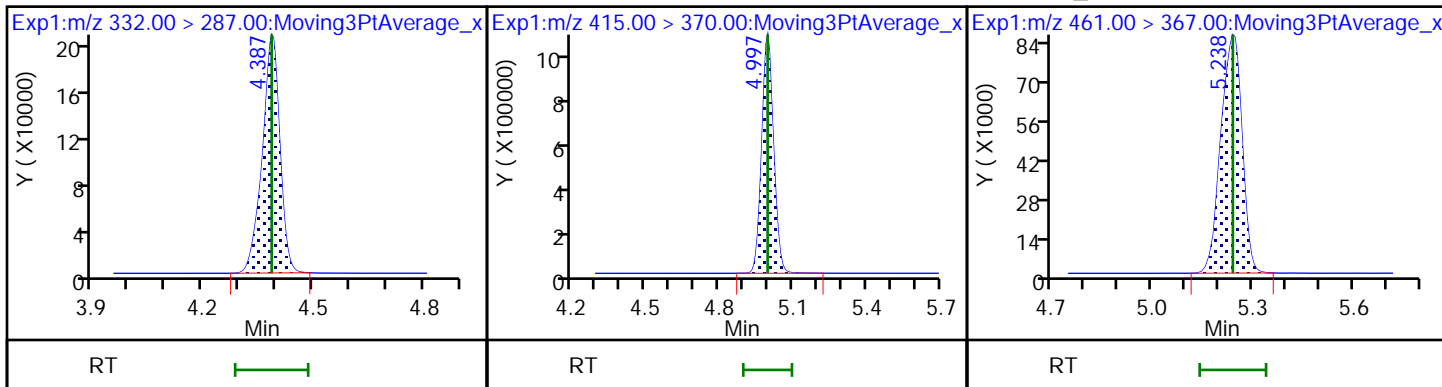
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 05-Aug-2022 09:31:03 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:38 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.384	4.387	-0.003	0.878	625747	4.81	96.2	2565
* 2 13C2 PFOA	415.00 > 370.00	4.991	4.996	-0.005		3222764	5.00		4580
3 MFS_N2	461.00 > 367.00	5.235	5.239	-0.004	1.194	1780473	5.28	110	15275
4 MFS_M3	577.00 > 483.00	5.843	5.849	-0.006	1.333	1370537	5.33	108	2789
5 MFS_N3	627.00 > 533.00	6.030	6.036	-0.006	1.375	1550403	5.24	105	4929
6 MFS_M4	743.00 > 649.00	6.436	6.439	-0.003	1.468	696263	5.29	108	4138
7 MFS_N4	793.00 > 699.00	6.558	6.565	-0.007	1.496	836694	5.61	113	5907
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.583	840493	5.44	108	7952

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d

Injection Date: 05-Aug-2022 09:31:03

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

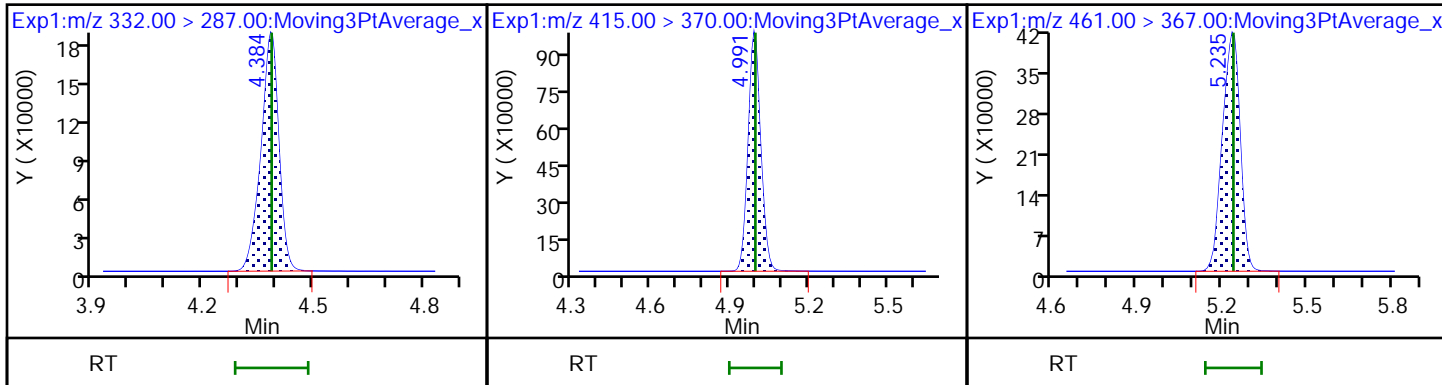
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

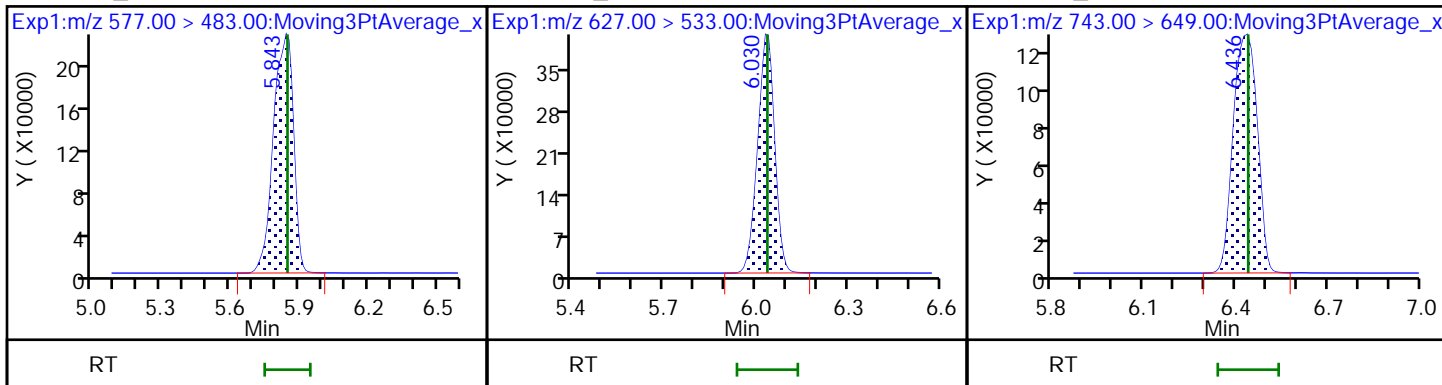
3 MFS_N2



4 MFS_M3

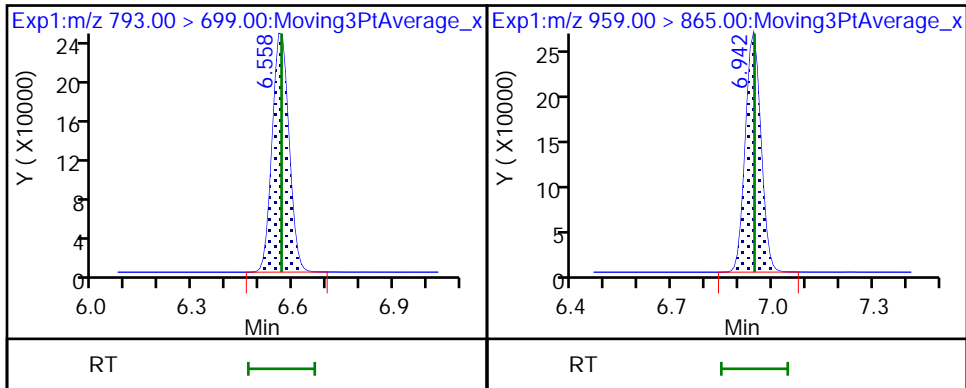
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 05-Aug-2022 09:43:40 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:48

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.387	-0.002	0.879	678213	5.06	101	2556
* 2 13C2 PFOA	415.00 > 370.00	4.992	4.996	-0.004		3317293	5.00		4716
3 MFS_N2	461.00 > 367.00	5.236	5.239	-0.003	1.194	3848185	10.6	110	21415
4 MFS_M3	577.00 > 483.00	5.844	5.849	-0.005	1.333	2924780	10.6	107	3270
5 MFS_N3	627.00 > 533.00	6.031	6.036	-0.005	1.375	3431578	10.7	107	5275
6 MFS_M4	743.00 > 649.00	6.436	6.439	-0.003	1.467	1527454	10.8	110	5013
7 MFS_N4	793.00 > 699.00	6.566	6.565	0.001	1.497	1648528	10.3	103	6095
8 MFS_N5	959.00 > 865.00	6.946	6.944	0.002	1.584	1789253	10.7	106	10413

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d

Injection Date: 05-Aug-2022 09:43:40

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

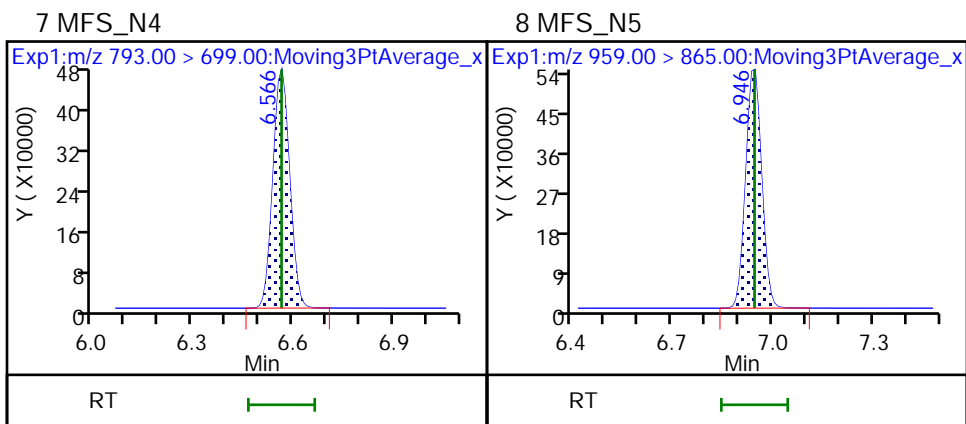
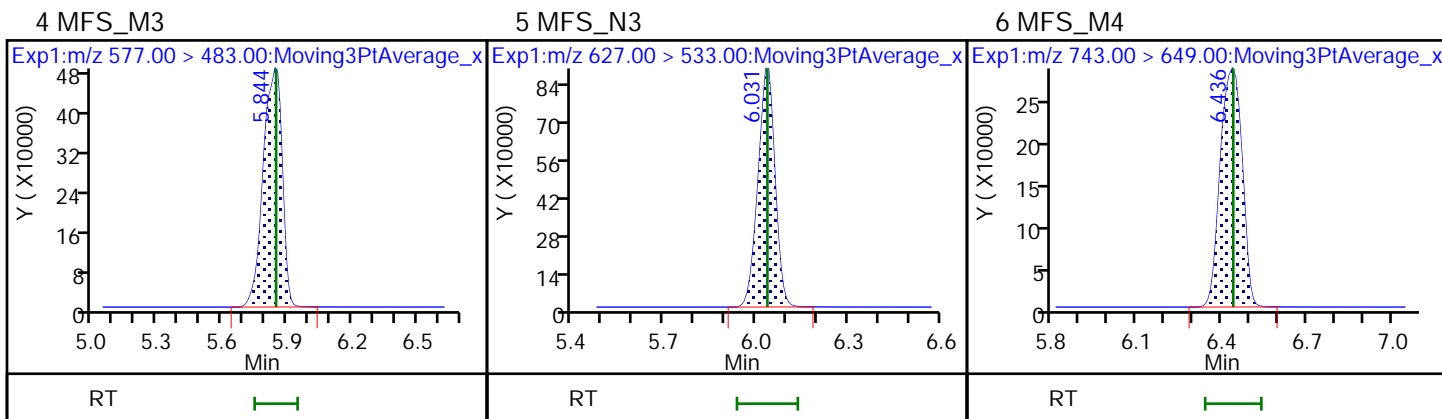
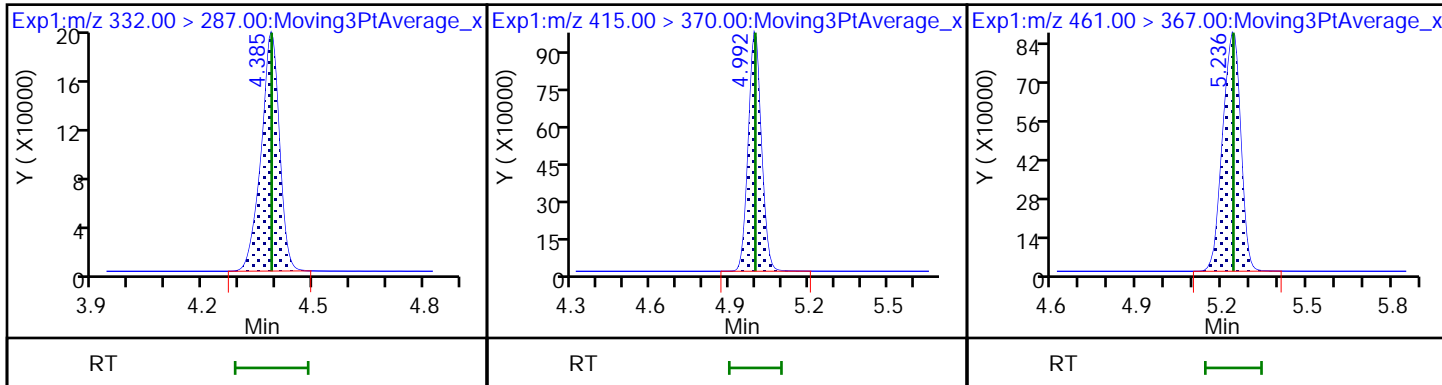
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 05-Aug-2022 09:56:17 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:53

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.387	0.001	0.878	620002	4.93	98.7	2415	
* 2 13C2 PFOA									
415.00 > 370.00	4.997	4.996	0.001		3111884	5.00		4706	
3 MFS_N2									
461.00 > 367.00	5.238	5.239	-0.001	1.194	8499793	25.8	107	25356	
4 MFS_M3									
577.00 > 483.00	5.848	5.849	-0.001	1.333	6548749	26.0	106	3823	
5 MFS_N3									
627.00 > 533.00	6.035	6.036	-0.001	1.375	7657320	26.3	105	5918	
6 MFS_M4									
743.00 > 649.00	6.442	6.439	0.003	1.468	3392053	26.3	107	5897	
7 MFS_N4									
793.00 > 699.00	6.564	6.565	-0.001	1.496	3483893	23.9	96.1	6490	
8 MFS_N5									
959.00 > 865.00	6.947	6.944	0.003	1.583	3703732	24.3	96.2	10962	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d

Injection Date: 05-Aug-2022 09:56:17

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

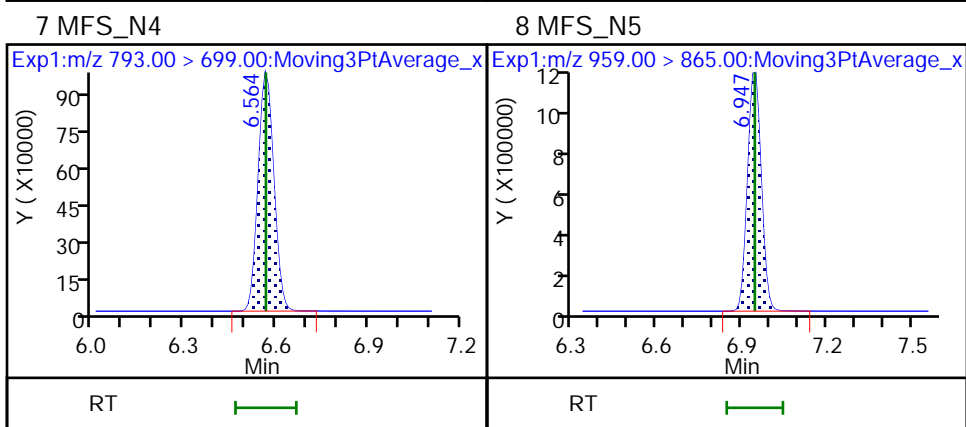
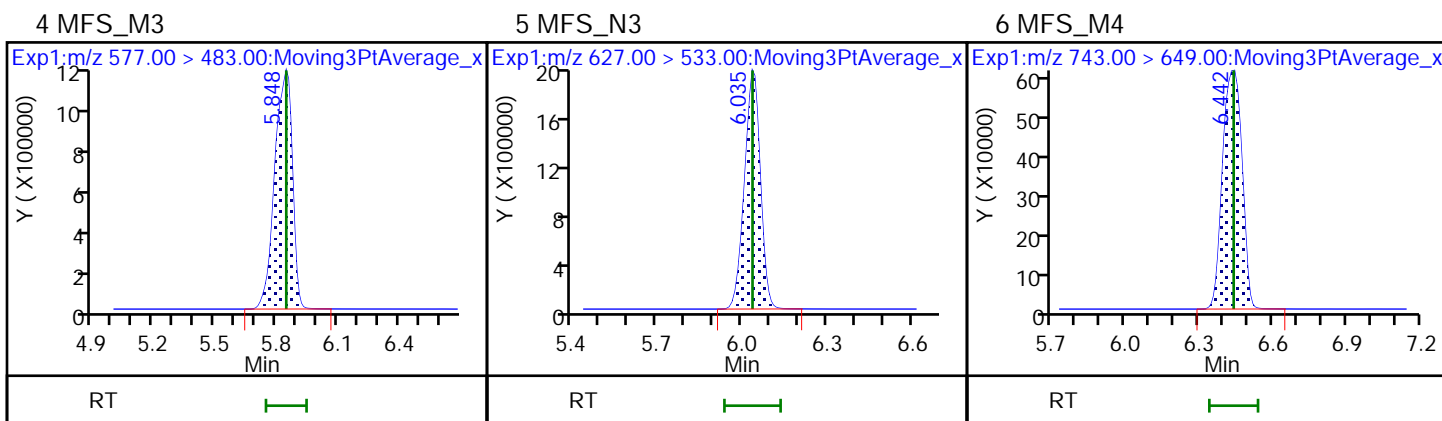
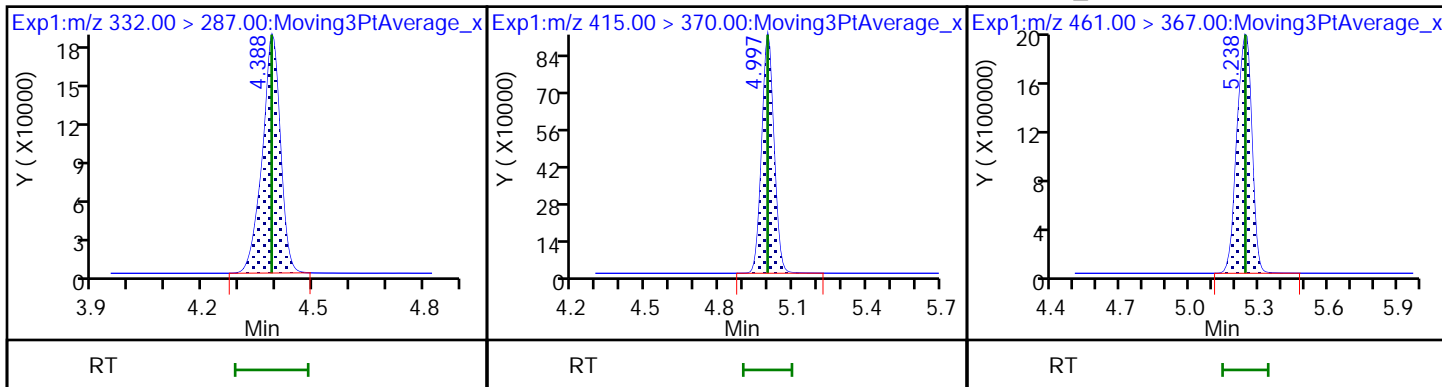
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 05-Aug-2022 10:08:54 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.387	0.002	0.878	704345	5.21	104	2940
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.996	0.002		3345907	5.00		5056
3 MFS_N2	461.00 > 367.00	5.242	5.239	0.003	1.194	16896802	45.1	93.7	30163
4 MFS_M3	577.00 > 483.00	5.854	5.849	0.005	1.334	13354811	46.8	95.0	4061
5 MFS_N3	627.00 > 533.00	6.039	6.036	0.003	1.376	15833576	47.9	95.7	8974
6 MFS_M4	743.00 > 649.00	6.437	6.439	-0.002	1.467	6755284	46.1	93.9	5470
7 MFS_N4	793.00 > 699.00	6.567	6.565	0.002	1.496	6411636	38.8	78.0	9007
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.582	6790396	39.2	77.6	10490

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Injection Date: 05-Aug-2022 10:08:54

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

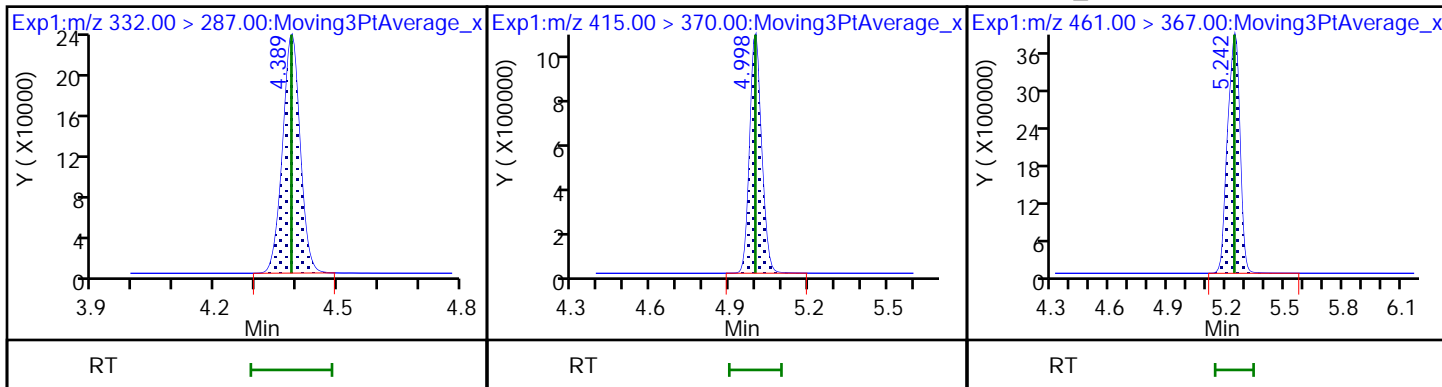
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

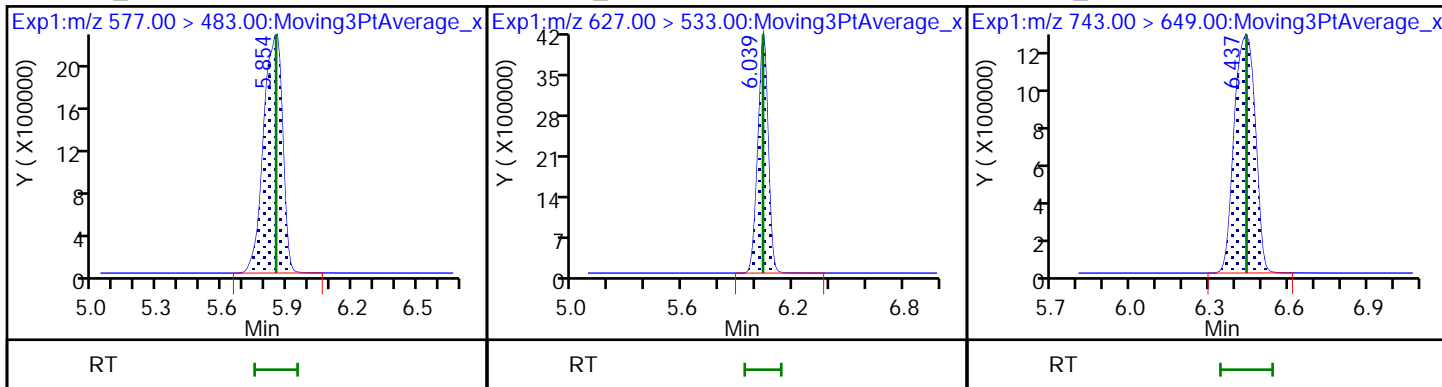
3 MFS_N2



4 MFS_M3

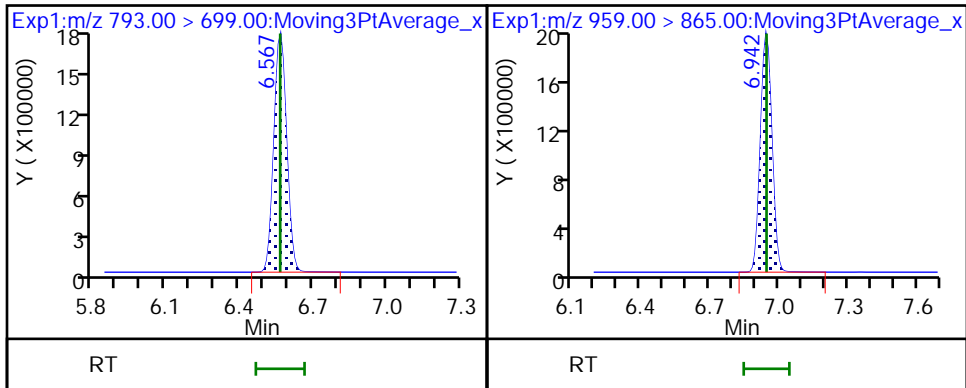
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Calibration

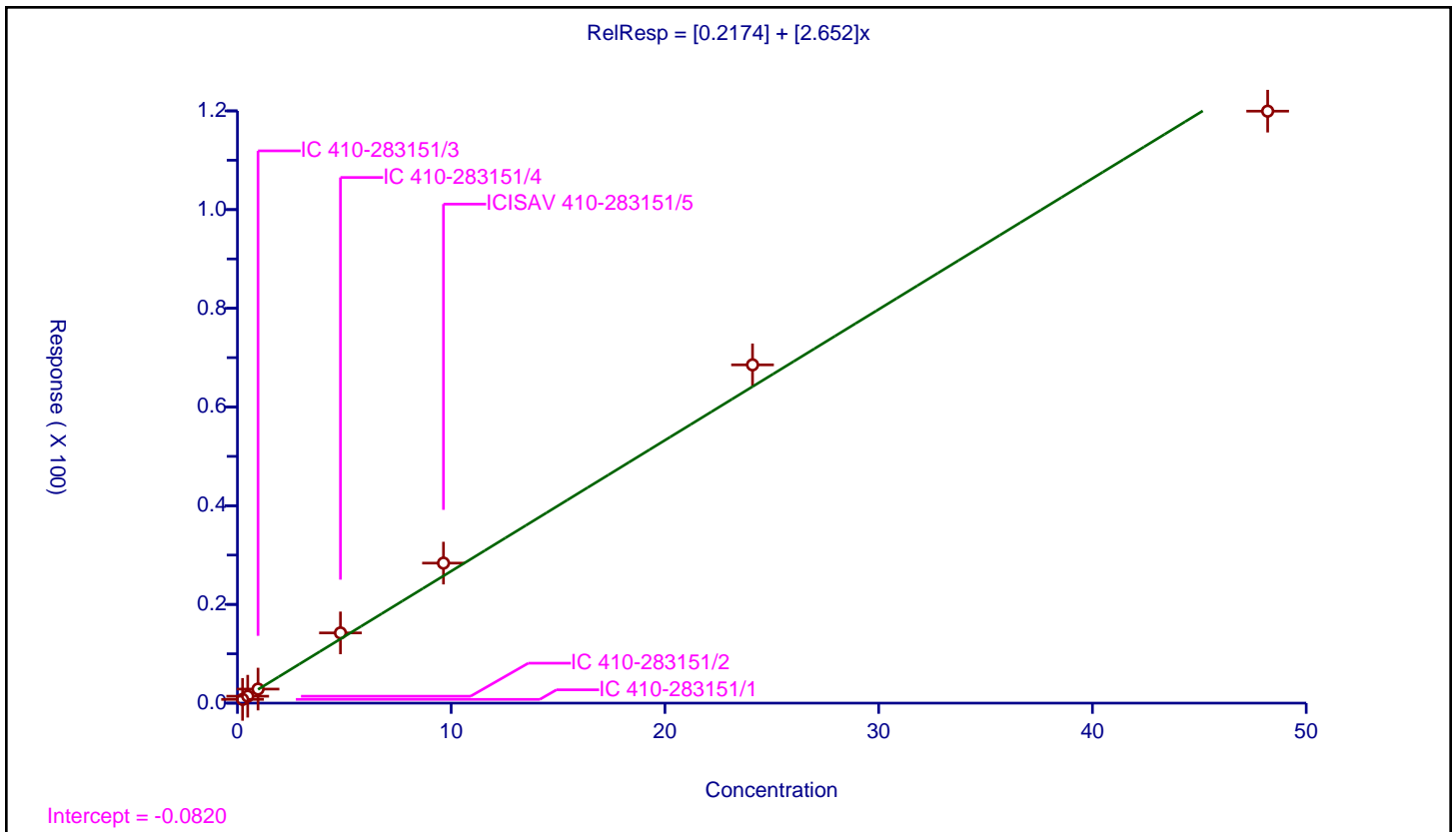
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2174
Slope:	2.652

Error Coefficients	
Standard Error:	8670000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.240983	0.756999	5.0	630232.0	3.141298	Y
2	IC 410-283151/2	0.481966	1.39811	5.0	688476.0	2.900849	Y
3	IC 410-283151/3	0.963932	2.849074	5.0	664135.0	2.955681	Y
4	IC 410-283151/4	4.819658	14.22678	5.0	625747.0	2.951824	Y
5	ICISAV 410-283151/5	9.639316	28.370033	5.0	678213.0	2.943158	Y
6	IC 410-283151/6	24.098289	68.546497	5.0	620002.0	2.844455	Y
7	IC 410-283151/7	48.196578	119.946915	5.0	704345.0	2.488702	Y



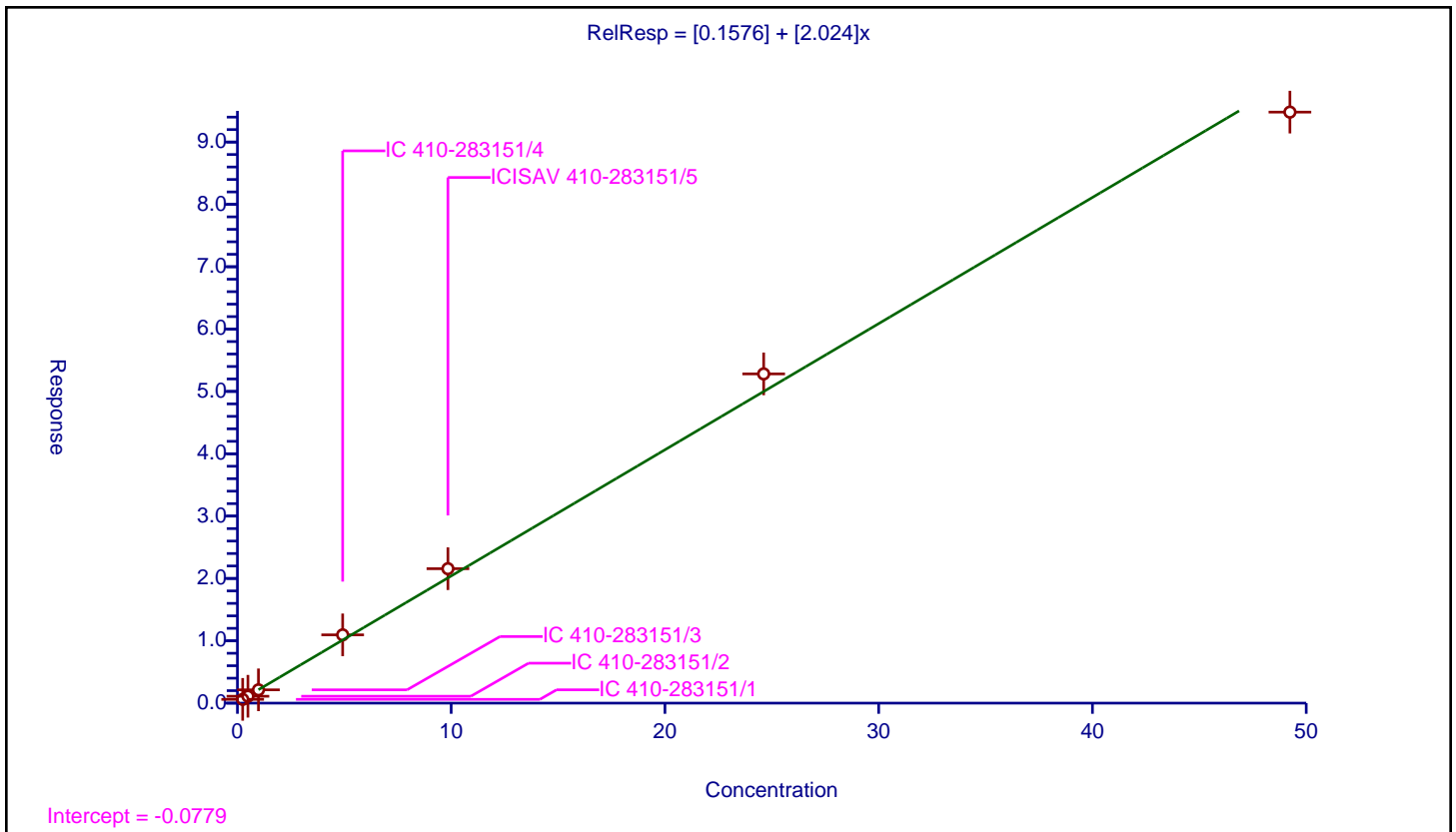
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1576
Slope:	2.024

Error Coefficients	
Standard Error:	6810000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.246191	0.603333	5.0	630232.0	2.450668	Y
2	IC 410-283151/2	0.492383	1.104897	5.0	688476.0	2.243979	Y
3	IC 410-283151/3	0.984766	2.133279	5.0	664135.0	2.166281	Y
4	IC 410-283151/4	4.923828	10.951207	5.0	625747.0	2.224125	Y
5	ICISAV 410-283151/5	9.847656	21.5624	5.0	678213.0	2.189597	Y
6	IC 410-283151/6	24.619141	52.812322	5.0	620002.0	2.145173	Y
7	IC 410-283151/7	49.238282	94.803051	5.0	704345.0	1.925393	Y



Calibration

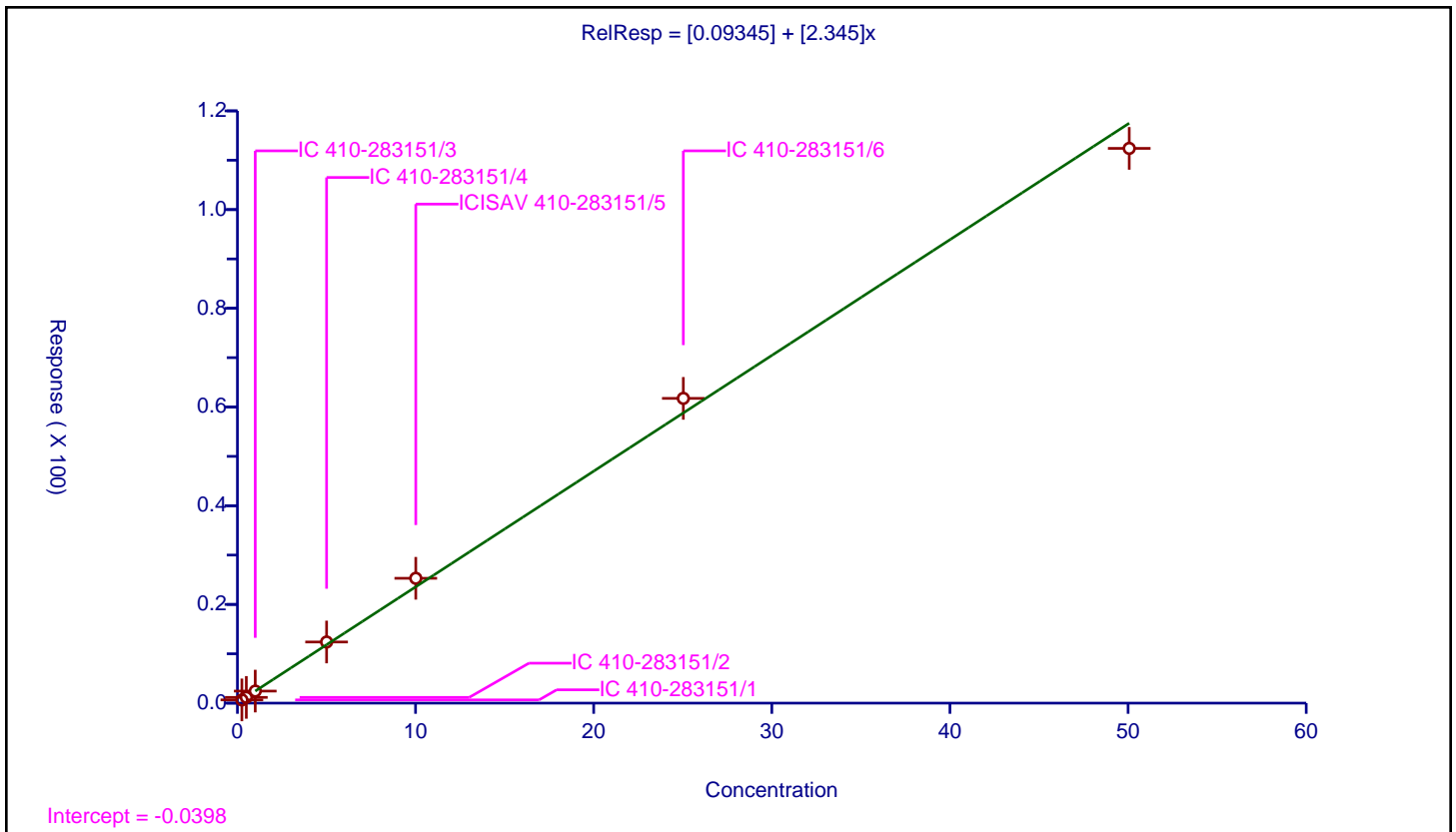
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.09345
Slope:	2.345

Error Coefficients	
Standard Error:	8050000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.250322	0.656718	5.0	630232.0	2.623493	Y
2	IC 410-283151/2	0.500644	1.164303	5.0	688476.0	2.32561	Y
3	IC 410-283151/3	1.001289	2.444247	5.0	664135.0	2.441101	Y
4	IC 410-283151/4	5.006444	12.388417	5.0	625747.0	2.474494	Y
5	ICISAV 410-283151/5	10.012888	25.298675	5.0	678213.0	2.526611	Y
6	IC 410-283151/6	25.03222	61.752381	5.0	620002.0	2.466916	Y
7	IC 410-283151/7	50.064439	112.399293	5.0	704345.0	2.245092	Y



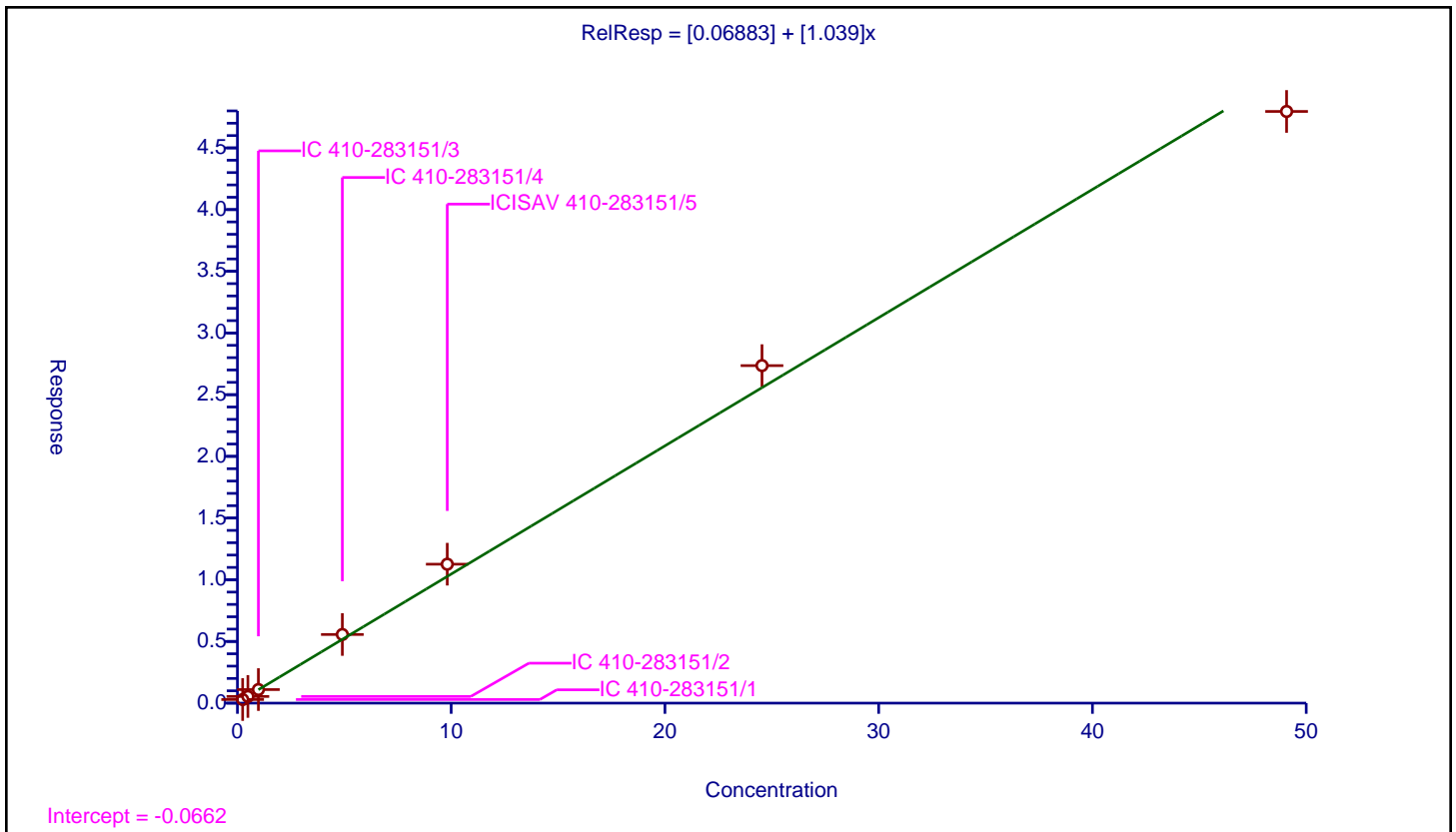
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06883
Slope:	1.039

Error Coefficients	
Standard Error:	3460000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.245407	0.293487	5.0	630232.0	1.195919	Y
2	IC 410-283151/2	0.490814	0.540317	5.0	688476.0	1.100857	Y
3	IC 410-283151/3	0.981629	1.10001	5.0	664135.0	1.120597	Y
4	IC 410-283151/4	4.908144	5.563455	5.0	625747.0	1.133515	Y
5	ICISAV 410-283151/5	9.816288	11.260872	5.0	678213.0	1.147162	Y
6	IC 410-283151/6	24.540719	27.355178	5.0	620002.0	1.114685	Y
7	IC 410-283151/7	49.081438	47.954369	5.0	704345.0	0.977037	Y



Calibration

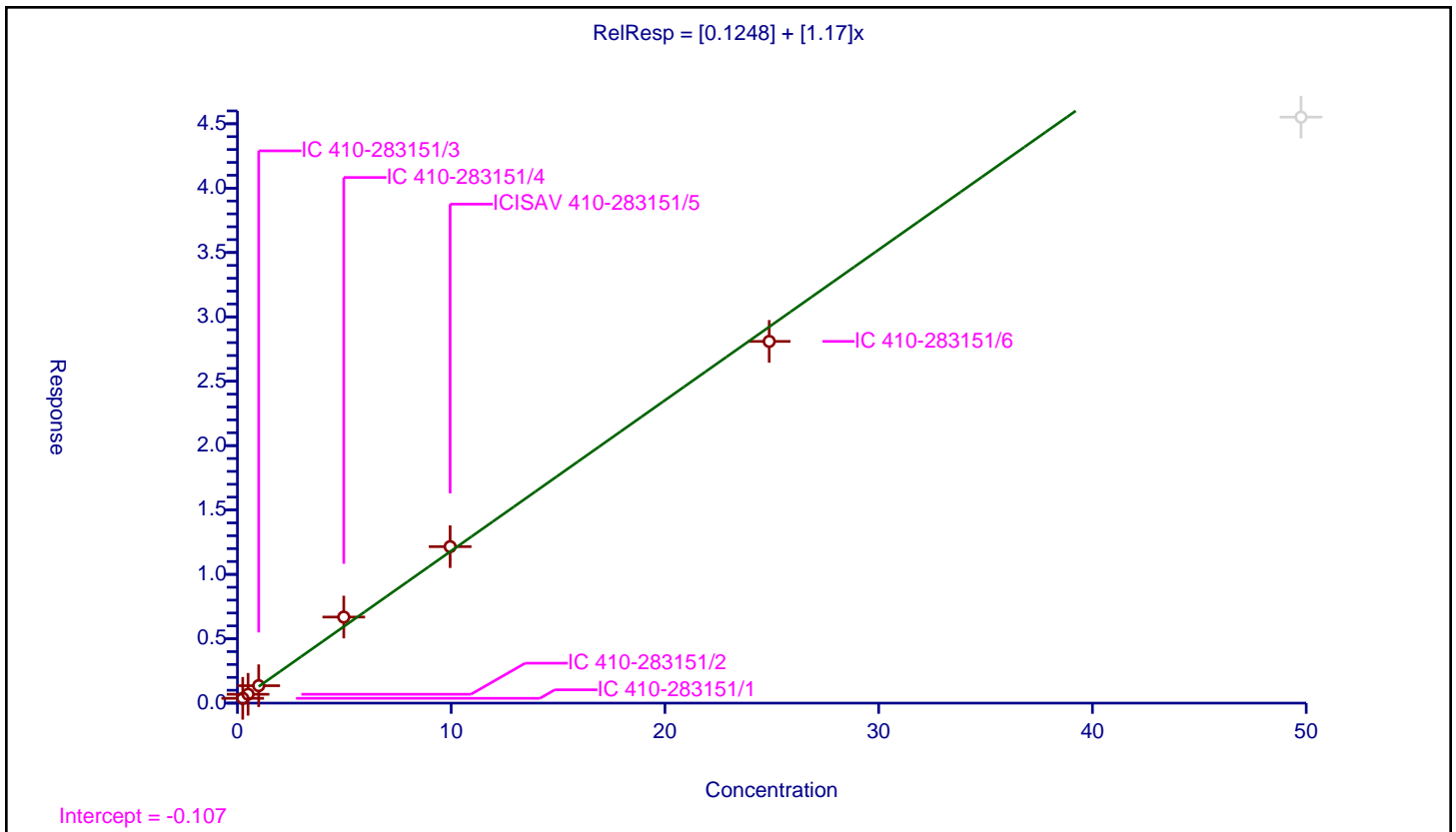
/ MFS_N4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1248
Slope:	1.17

Error Coefficients	
Standard Error:	1970000
Relative Standard Error:	10.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.248788	0.373839	5.0	630232.0	1.502639	Y
2	IC 410-283151/2	0.497576	0.68733	5.0	688476.0	1.381356	Y
3	IC 410-283151/3	0.995152	1.354574	5.0	664135.0	1.361173	Y
4	IC 410-283151/4	4.975759	6.685561	5.0	625747.0	1.343626	Y
5	ICISAV 410-283151/5	9.951518	12.153468	5.0	678213.0	1.221268	Y
6	IC 410-283151/6	24.878795	28.095821	5.0	620002.0	1.129308	Y
7	IC 410-283151/7	49.75759	45.514883	5.0	704345.0	0.914732	N



Calibration

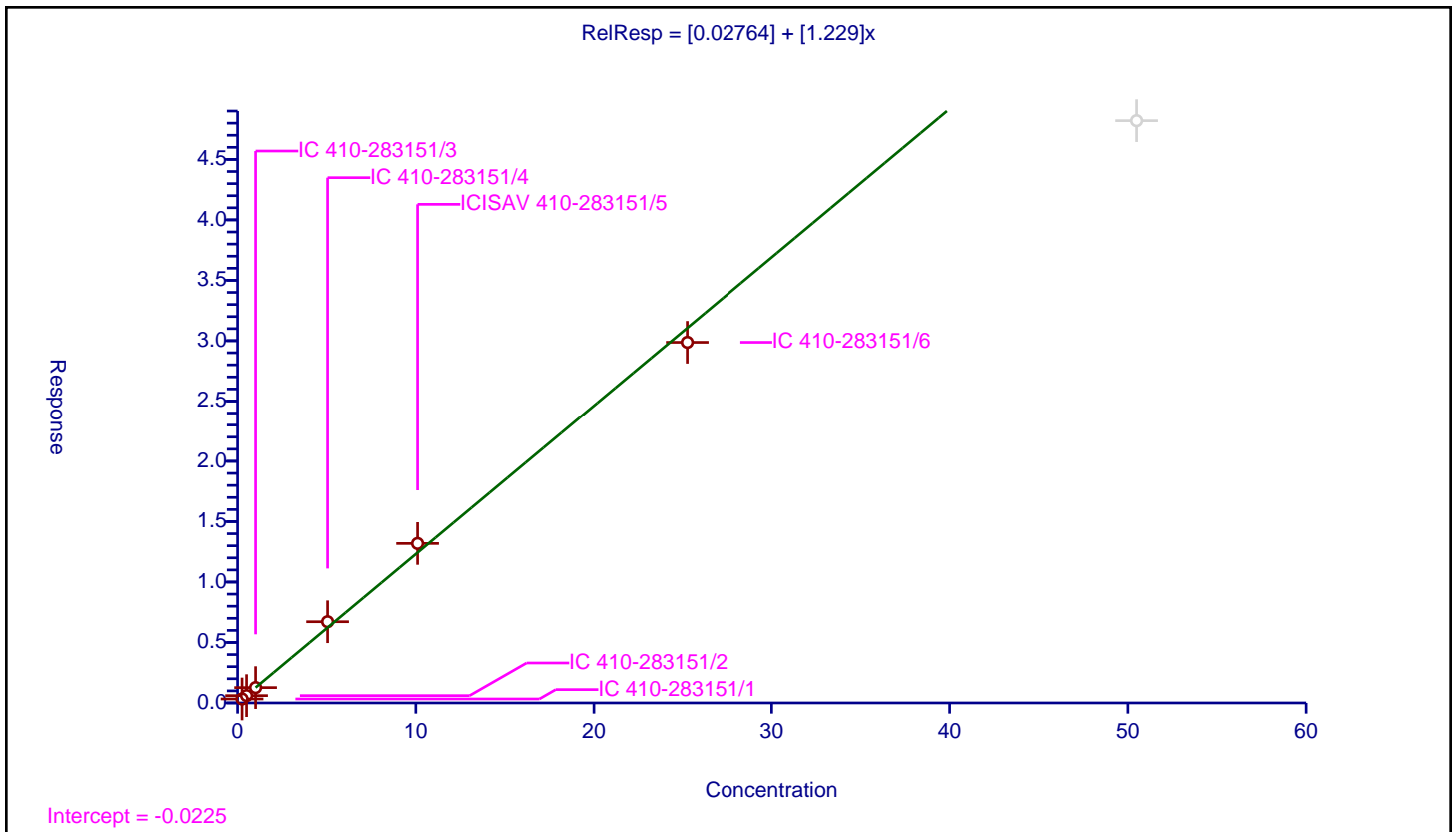
/ MFS_N5

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.02764
Slope:	1.229

Error Coefficients	
Standard Error:	2100000
Relative Standard Error:	6.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.252449	0.3288	5.0	630232.0	1.302441	Y
2	IC 410-283151/2	0.504897	0.603848	5.0	688476.0	1.195982	Y
3	IC 410-283151/3	1.009795	1.268876	5.0	664135.0	1.256569	Y
4	IC 410-283151/4	5.048973	6.715917	5.0	625747.0	1.330155	Y
5	ICISAV 410-283151/5	10.097945	13.190937	5.0	678213.0	1.306299	Y
6	IC 410-283151/6	25.244863	29.86871	5.0	620002.0	1.18316	Y
7	IC 410-283151/7	50.489726	48.203622	5.0	704345.0	0.954721	N



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: ICV 410-283151/9 Calibration Date: 08/05/2022 10:34
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG05MFSCAL-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.873		0.962	0.964	-0.2	30.0
MFS_M3	L1ID		2.145		0.966	0.985	-1.9	30.0
MFS_N3	L1ID		2.383		0.978	1.00	-2.3	30.0
MFS_M4	L1ID		1.127		0.998	0.982	1.7	30.0
MFS_N4	L1ID		1.324		1.02	0.995	2.4	30.0
MFS_N5	L1ID		1.220		0.980	1.01	-2.9	30.0
13C3 HFPO-DA	Ave	0.2019	0.2006		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 05-Aug-2022 10:34:09 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:28:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:23

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.389	-0.004	0.879	685023	4.97	99.4	2627
* 2 13C2 PFOA	415.00 > 370.00	4.990	4.998	-0.008		3414636	5.00		5022
3 MFS_N2	461.00 > 367.00	5.237	5.242	-0.005	1.194	379478	0.9623		1913
4 MFS_M3	577.00 > 483.00	5.846	5.854	-0.008	1.333	289353	0.9657		977
5 MFS_N3	627.00 > 533.00	6.033	6.039	-0.006	1.376	326961	0.9778		1610
6 MFS_M4	743.00 > 649.00	6.436	6.437	-0.001	1.468	151502	1.00		1564
7 MFS_N4	793.00 > 699.00	6.566	6.567	-0.001	1.497	180449	1.02		2539
8 MFS_N5	959.00 > 865.00	6.938	6.942	-0.004	1.582	168796	0.9800		3431

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d

Injection Date: 05-Aug-2022 10:34:09

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

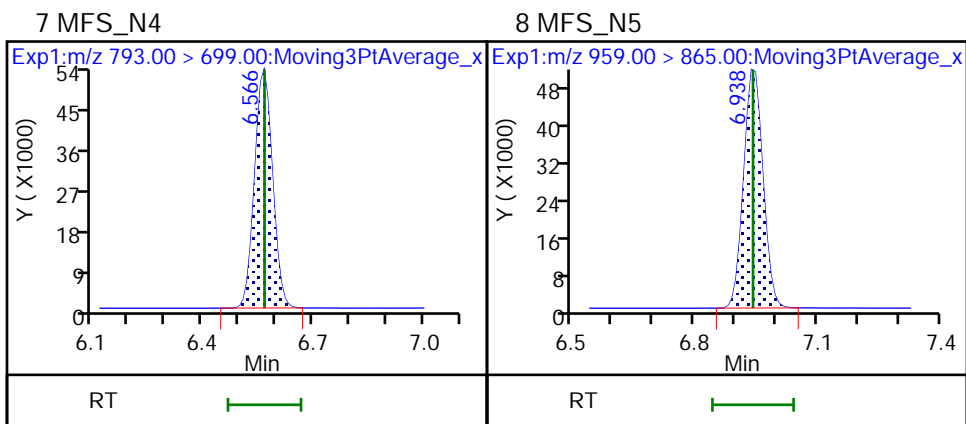
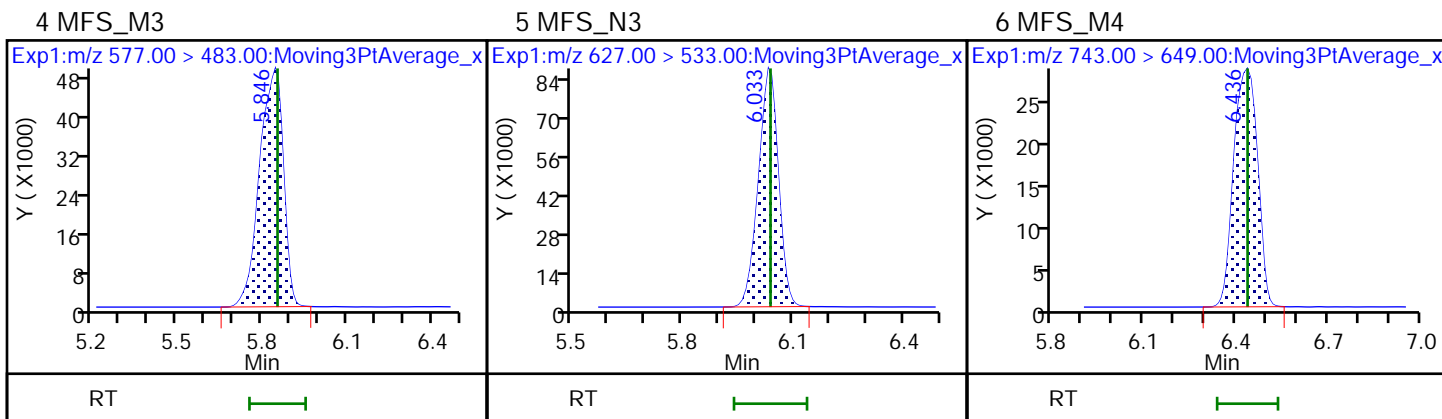
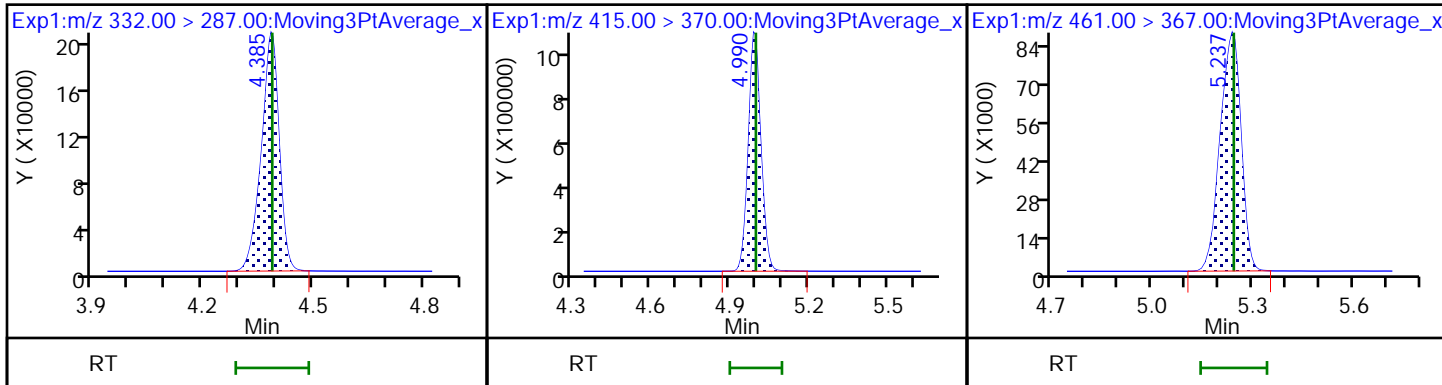
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/1 Calibration Date: 08/05/2022 12:17
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.189		0.208	0.241	-13.8	50.0
MFS_M3	L1ID		2.555		0.233	0.246	-5.4	50.0
MFS_N3	L1ID		2.751		0.254	0.250	1.4	50.0
MFS_M4	L1ID		1.197		0.217	0.245	-11.8	50.0
MFS_N4	L1ID		1.560		0.225	0.249	-9.6	50.0
MFS_N5	L1ID		1.332		0.251	0.252	-0.5	50.0
13C3 HFPO-DA	Ave	0.2019	0.1913		4.74	5.00	-5.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 12:17:41 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:42:49

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.879	630381	4.74	94.7	2978
* 2 13C2 PFOA	415.00 > 370.00	5.007	5.007	0.0		3295947	5.00		5209
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	96880	0.2078	86.2	876
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.331	79314	0.2330	94.6	474
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.373	86836	0.2538	101	1216
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	37045	0.2165	88.2	980
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	48917	0.2250	90.4	1622
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	42401	0.2512	99.5	2158

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d

Injection Date: 05-Aug-2022 12:17:41

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

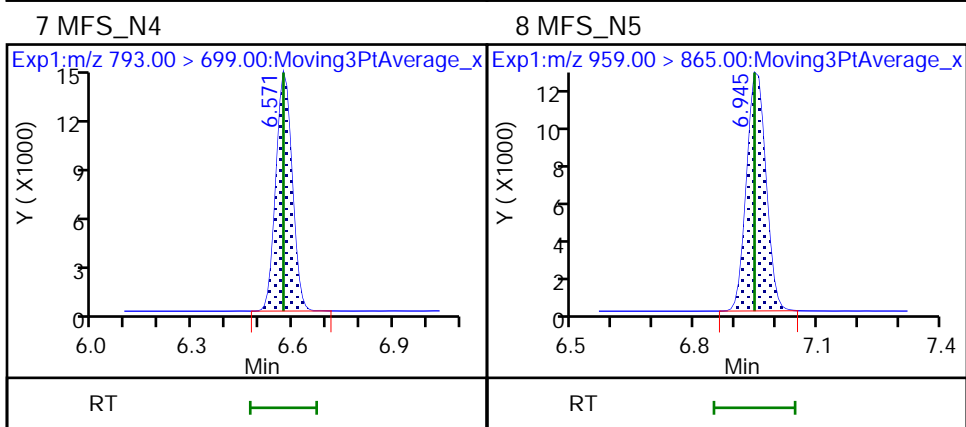
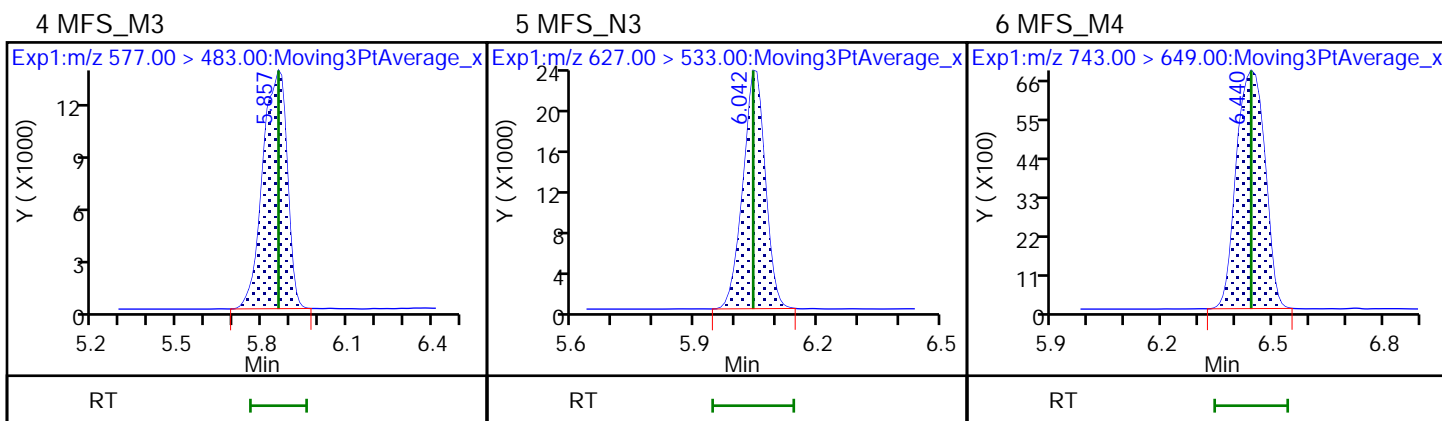
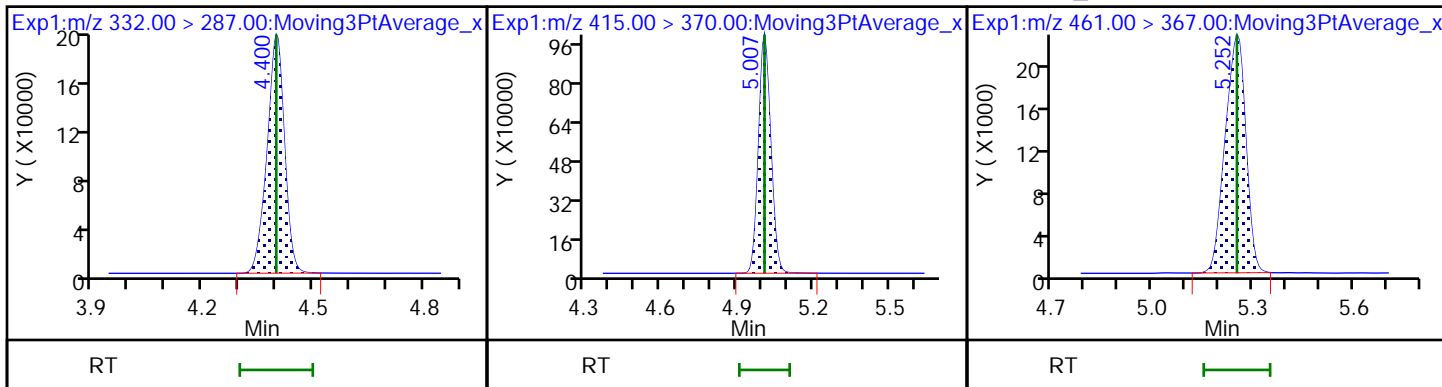
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/23 Calibration Date: 08/05/2022 16:56
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-23.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.088		0.199	0.241	-17.6	50.0
MFS_M3	L1ID		2.458		0.221	0.246	-10.2	50.0
MFS_N3	L1ID		2.693		0.248	0.250	-1.1	50.0
MFS_M4	L1ID		1.274		0.235	0.245	-4.4	50.0
MFS_N4	L1ID		1.607		0.235	0.249	-5.5	50.0
MFS_N5	L1ID		1.345		0.254	0.252	0.5	50.0
13C3 HFPO-DA	Ave	0.2019	0.1960		4.85	5.00	-2.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d
 Lims ID: CCVL 4_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 16:56:00 ALS Bottle#: 2 Worklist Smp#: 23
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 4_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-023
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:21 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:42

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.395	4.393	0.002	0.879	651849	4.85	97.1	2311
* 2 13C2 PFOA	415.00 > 370.00	5.000	4.998	0.002		3324937	5.00		3238
3 MFS_N2	461.00 > 367.00	5.251	5.246	0.005	1.195	97002	0.1986	82.4	26.2 M
4 MFS_M3	577.00 > 483.00	5.858	5.848	0.010	1.333	78878	0.2211	89.8	189
5 MFS_N3	627.00 > 533.00	6.043	6.044	-0.001	1.375	87888	0.2476	98.9	656
6 MFS_M4	743.00 > 649.00	6.442	6.442	0.0	1.466	40762	0.2347	95.6	628
7 MFS_N4	793.00 > 699.00	6.572	6.573	-0.001	1.495	52133	0.2351	94.5	981
8 MFS_N5	959.00 > 865.00	6.947	6.947	0.0	1.580	44252	0.2537	100	950

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d

Injection Date: 05-Aug-2022 16:56:00

Instrument ID: 30733

Lims ID: CCVL 4_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 23

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

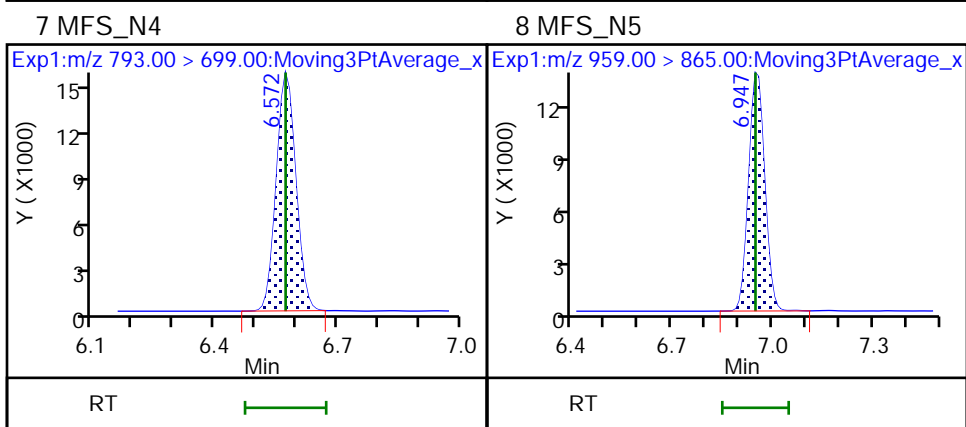
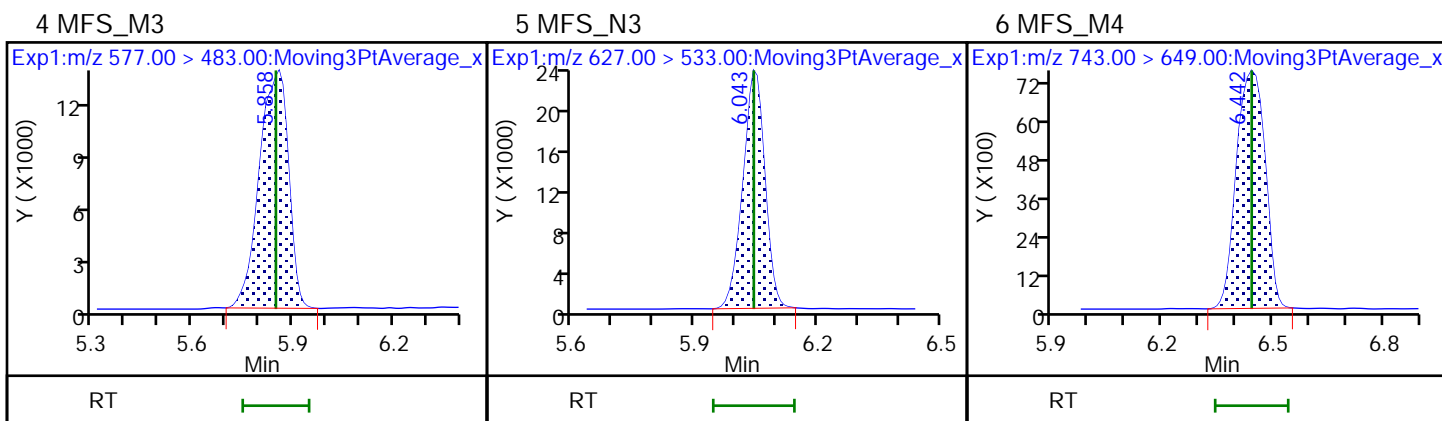
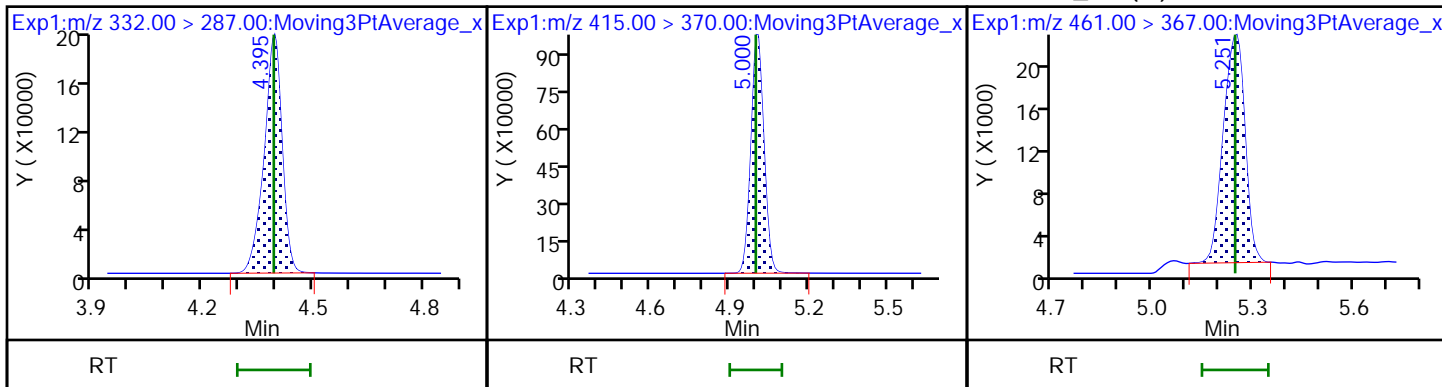
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

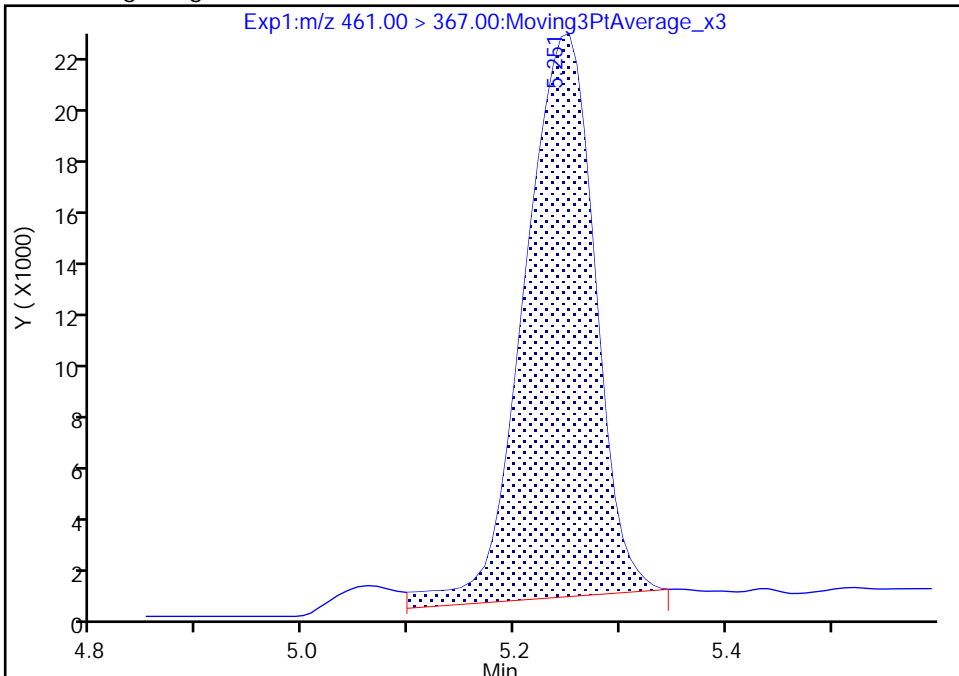
Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d
Injection Date: 05-Aug-2022 16:56:00 Instrument ID: 30733
Lims ID: CCVL 4_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 23
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

3 MFS_N2, CAS: STL02873

Signal: 1

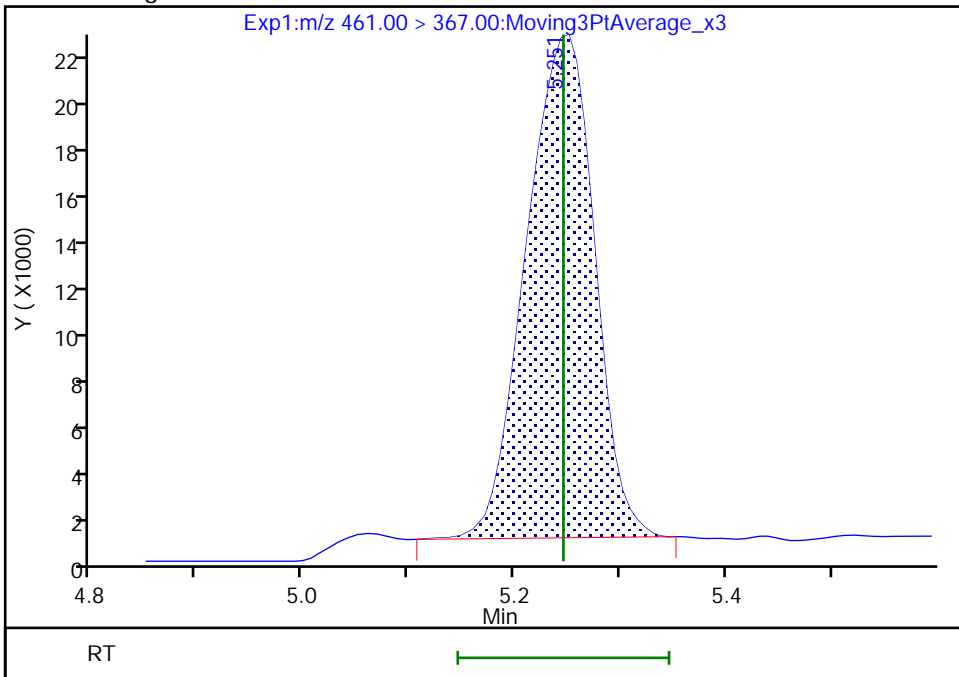
RT: 5.25
Area: 101677
Amount: 0.212092
Amount Units: ng/ml

Processing Integration Results



RT: 5.25
Area: 97002
Amount: 0.198572
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:02:13
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 357 of 417

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/29 Calibration Date: 08/05/2022 18:11
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-29.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.070		1.03	0.964	7.2	30.0
MFS_M3	L1ID		2.270		1.03	0.985	4.2	30.0
MFS_N3	L1ID		2.532		1.04	1.00	4.0	30.0
MFS_M4	L1ID		1.171		1.04	0.982	5.9	30.0
MFS_N4	L1ID		1.460		1.14	0.995	14.1	30.0
MFS_N5	L1ID		1.336		1.08	1.01	6.5	30.0
13C3 HFPO-DA	Ave	0.2019	0.1942		4.81	5.00	-3.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-29.d
 Lims ID: CCV 5_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 18:11:38 ALS Bottle#: 4 Worklist Smp#: 29
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 5_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-029
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:47

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									
332.00 > 287.00	4.390	4.393	-0.003	0.878	588957	4.81	96.2	2238	
* 2 13C2 PFOA									
415.00 > 370.00	4.999	4.998	0.001		3032129	5.00		3386	
3 MFS_N2									
461.00 > 367.00	5.243	5.246	-0.003	1.194	348553	1.03	107	162	
4 MFS_M3									
577.00 > 483.00	5.857	5.848	0.009	1.334	263276	1.03	104	743	
5 MFS_N3									
627.00 > 533.00	6.042	6.044	-0.002	1.376	298675	1.04	104	1485	
6 MFS_M4									
743.00 > 649.00	6.440	6.442	-0.002	1.467	135402	1.04	106	1441	
7 MFS_N4									
793.00 > 699.00	6.571	6.573	-0.002	1.497	171183	1.14	114	2440	
8 MFS_N5									
959.00 > 865.00	6.945	6.947	-0.002	1.582	158942	1.08	107	3105	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-29.d

Injection Date: 05-Aug-2022 18:11:38

Instrument ID: 30733

Lims ID: CCV 5_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 29

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

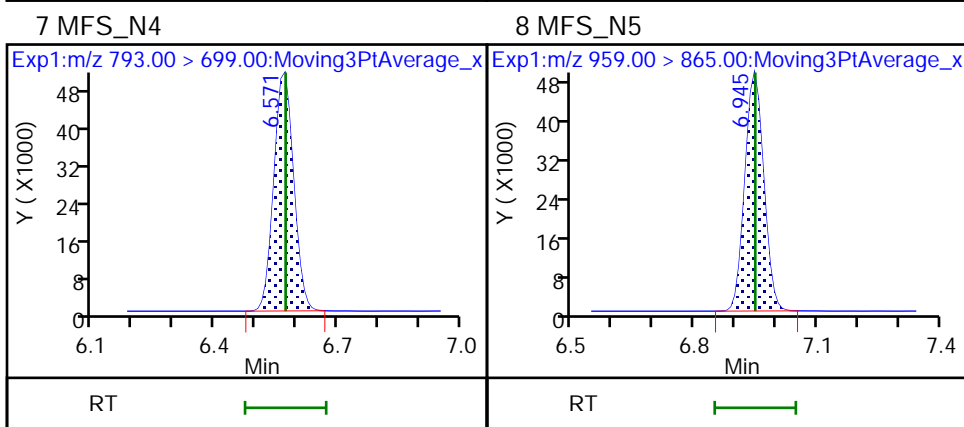
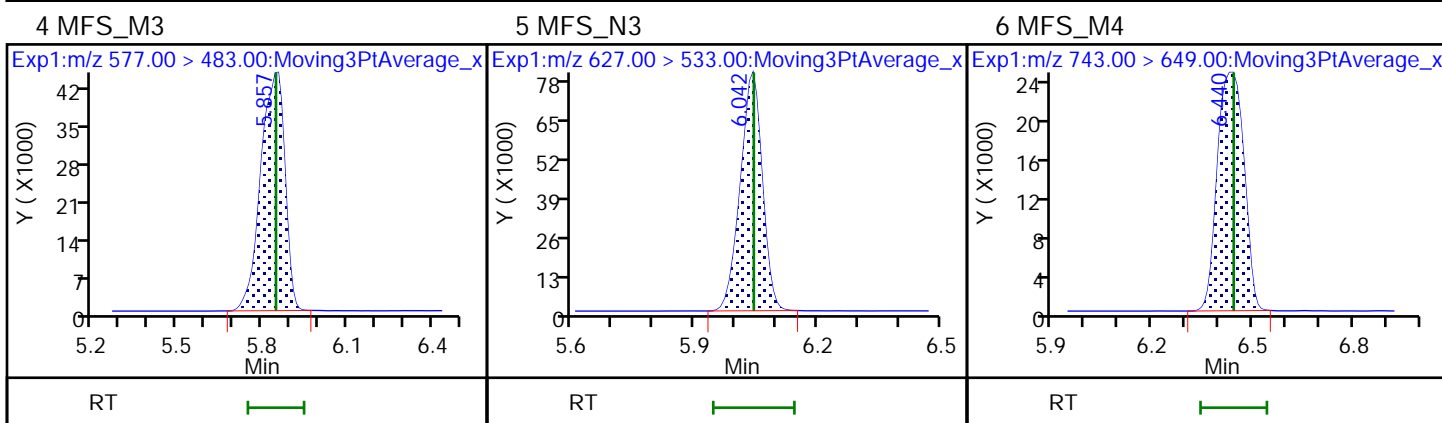
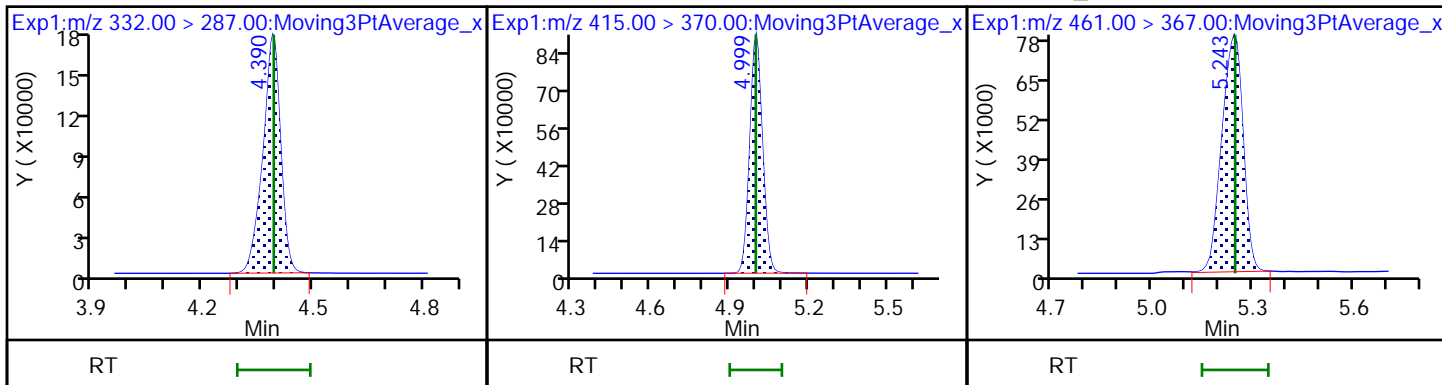
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/39 Calibration Date: 08/05/2022 20:18
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-39.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.935		10.6	9.64	9.8	30.0
MFS_M3	L1ID		2.250		10.9	9.85	10.4	30.0
MFS_N3	L1ID		2.540		10.8	10.0	7.9	30.0
MFS_M4	L1ID		1.161		10.9	9.82	11.1	30.0
MFS_N4	L1ID		1.263		10.6	9.95	6.9	30.0
MFS_N5	L1ID		1.381		11.3	10.1	12.1	30.0
13C3 HFPO-DA	Ave	0.2019	0.2004		4.96	5.00	-0.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-39.d
 Lims ID: CCV 6_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 20:18:51 ALS Bottle#: 6 Worklist Smp#: 39
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 6_CAL5
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-039
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:51

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.878	626860	4.96	99.2	2292
* 2 13C2 PFOA	415.00 > 370.00	5.011	5.011	0.0		3128628	5.00		3655
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	3546562	10.6	110	2091
4 MFS_M3	577.00 > 483.00	5.858	5.858	0.0	1.331	2777298	10.9	110	2275
5 MFS_N3	627.00 > 533.00	6.051	6.051	0.0	1.375	3188385	10.8	108	4893
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.463	1428950	10.9	111	3493
7 MFS_N4	793.00 > 699.00	6.576	6.576	0.0	1.494	1575219	10.6	107	5459
8 MFS_N5	959.00 > 865.00	6.957	6.957	0.0	1.581	1748310	11.3	112	10011

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-39.d

Injection Date: 05-Aug-2022 20:18:51

Instrument ID: 30733

Lims ID: CCV 6_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 39

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

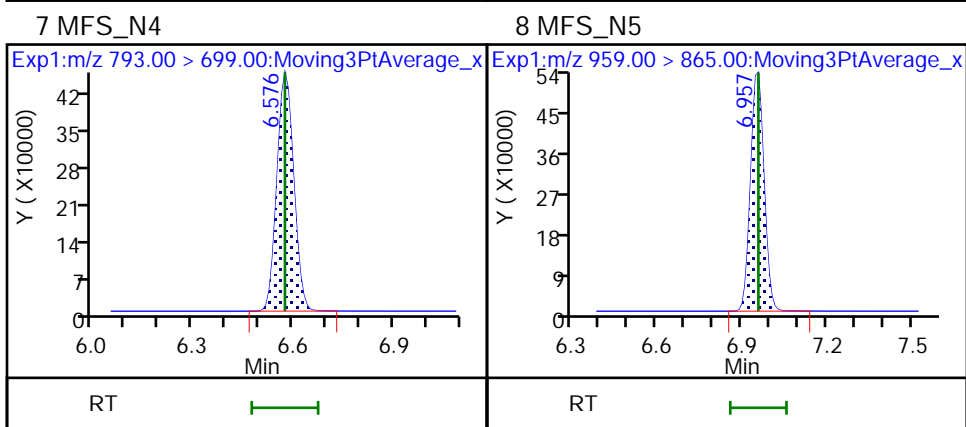
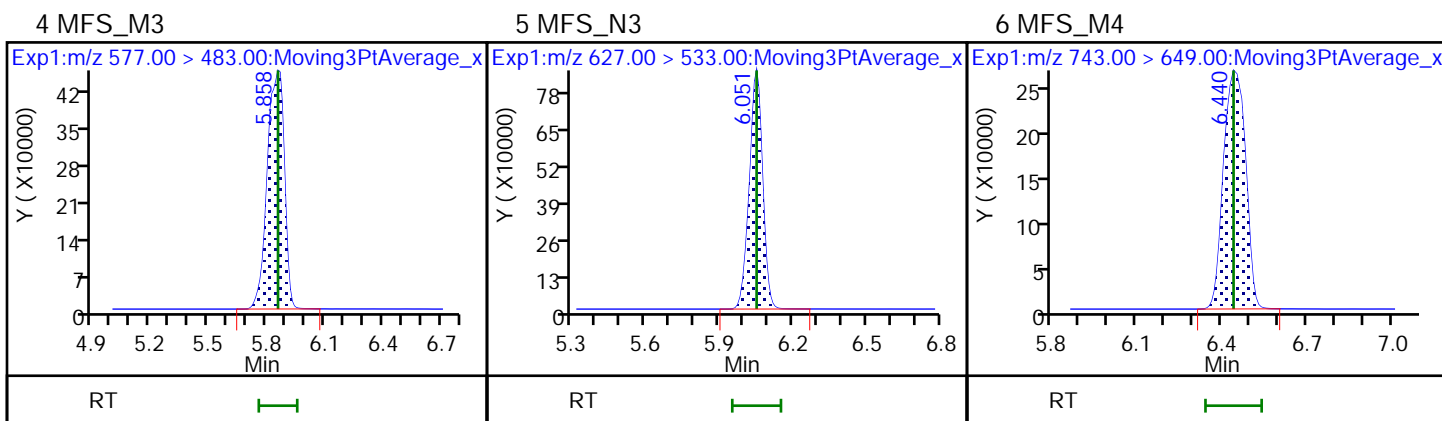
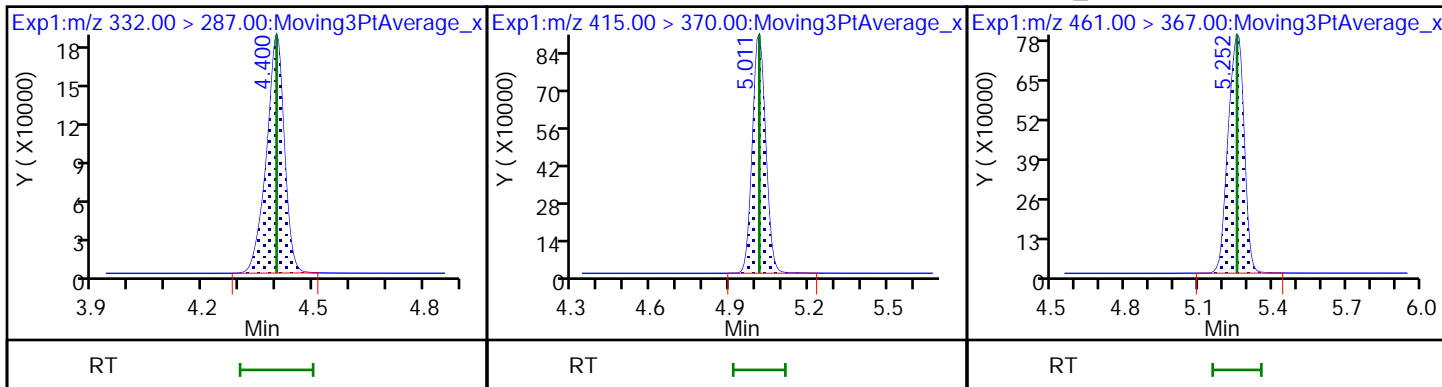
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283896/1 Calibration Date: 08/08/2022 18:56
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG08MFS-03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.140		0.203	0.241	-15.6	50.0
MFS_M3	L1ID		2.486		0.225	0.246	-8.8	50.0
MFS_N3	L1ID		2.726		0.251	0.250	0.3	50.0
MFS_M4	L1ID		1.262		0.232	0.245	-5.5	50.0
MFS_N4	L1ID		1.622		0.238	0.249	-4.3	50.0
MFS_N5	L1ID		1.382		0.261	0.252	3.6	50.0
13C3 HFPO-DA	Ave	0.2019	0.1959		4.85	5.00	-3.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-03.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 08-Aug-2022 18:56:16 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:24:38

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.379	4.379	0.0	0.879	669635	4.85	97.0	229
* 2 13C2 PFOA	415.00 > 370.00	4.983	4.983	0.0		3417511	5.00		331
3 MFS_N2	461.00 > 367.00	5.232	5.232	0.0	1.195	101329	0.2033	84.4	854
4 MFS_M3	577.00 > 483.00	5.839	5.839	0.0	1.333	81984	0.2246	91.2	131
5 MFS_N3	627.00 > 533.00	6.028	6.028	0.0	1.376	91402	0.2512	100	298
6 MFS_M4	743.00 > 649.00	6.423	6.423	0.0	1.467	41482	0.2318	94.5	231
7 MFS_N4	793.00 > 699.00	6.558	6.558	0.0	1.497	54029	0.2382	95.7	332
8 MFS_N5	959.00 > 865.00	6.932	6.932	0.0	1.583	46737	0.2615	104	500

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-03.d

Injection Date: 08-Aug-2022 18:56:16

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

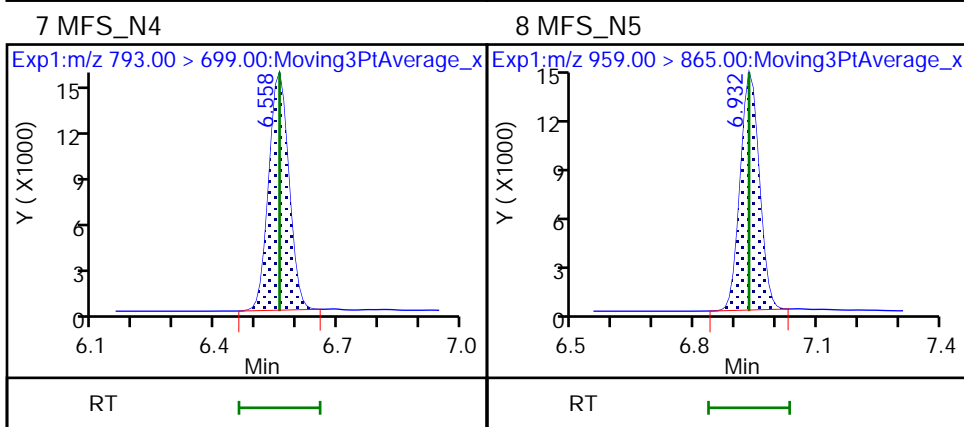
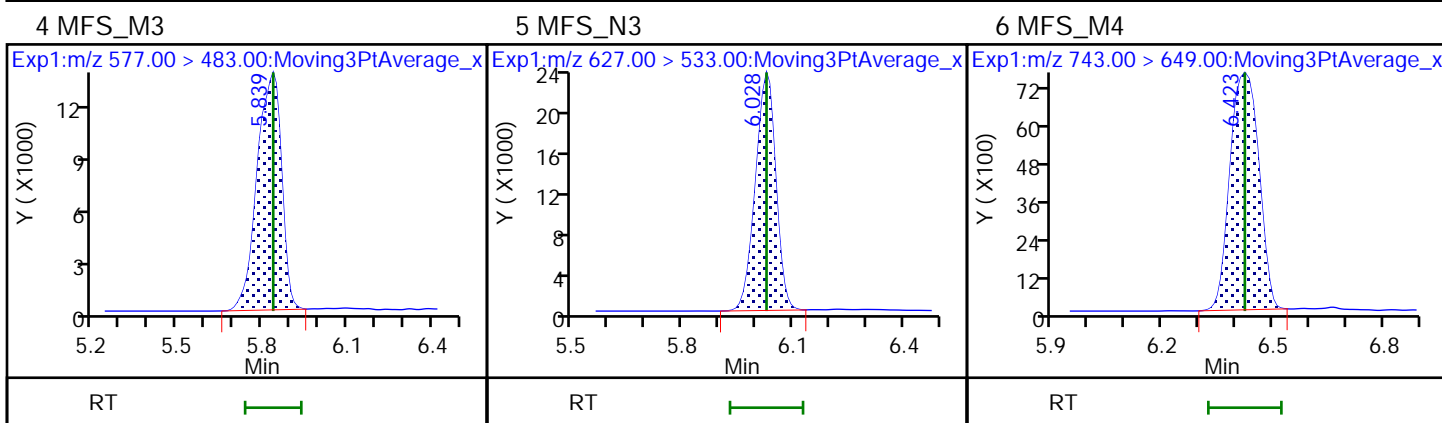
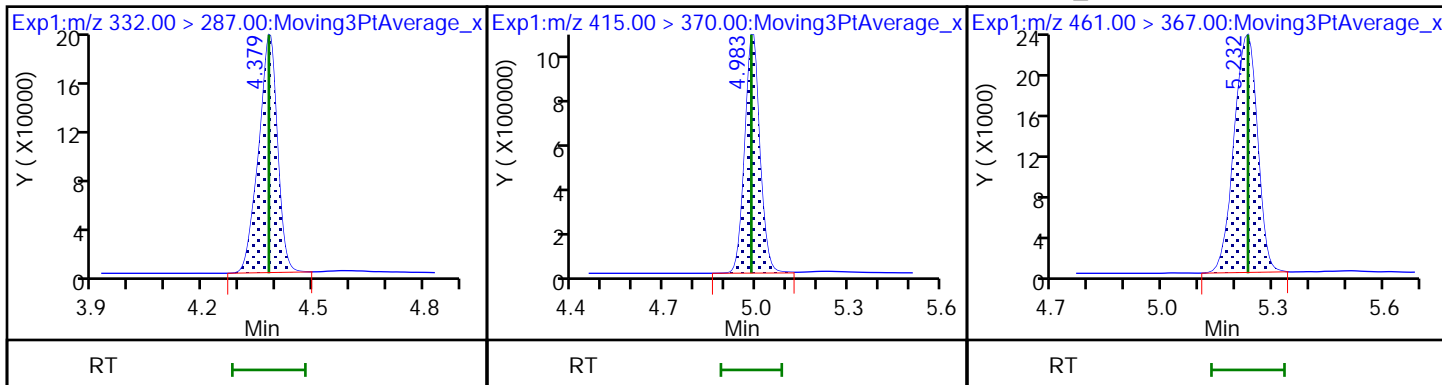
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283896/11 Calibration Date: 08/08/2022 21:02
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG08MFS-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.022		1.02	0.964	5.5	30.0
MFS_M3	L1ID		2.224		1.00	0.985	2.0	30.0
MFS_N3	L1ID		2.552		1.05	1.00	4.9	30.0
MFS_M4	L1ID		1.180		1.05	0.982	6.8	30.0
MFS_N4	L1ID		1.437		1.12	0.995	12.1	30.0
MFS_N5	L1ID		1.288		1.04	1.01	2.6	30.0
13C3 HFPO-DA	Ave	0.2019	0.1902		4.71	5.00	-5.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-13.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 08-Aug-2022 21:02:08 ALS Bottle#: 4 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:30 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:25:30

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.379	0.010	0.879	618931	4.71	94.2	242
* 2 13C2 PFOA	415.00 > 370.00	4.992	4.983	0.009		3254295	5.00		330
3 MFS_N2	461.00 > 367.00	5.236	5.232	0.004	1.193	360647	1.02	105	558
4 MFS_M3	577.00 > 483.00	5.844	5.839	0.005	1.331	271143	1.00	102	168
5 MFS_N3	627.00 > 533.00	6.031	6.028	0.003	1.374	316365	1.05	105	331
6 MFS_M4	743.00 > 649.00	6.426	6.423	0.003	1.464	143375	1.05	107	235
7 MFS_N4	793.00 > 699.00	6.559	6.558	0.001	1.494	177026	1.12	112	383
8 MFS_N5	959.00 > 865.00	6.942	6.932	0.010	1.582	160992	1.04	103	690

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-13.d

Injection Date: 08-Aug-2022 21:02:08

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

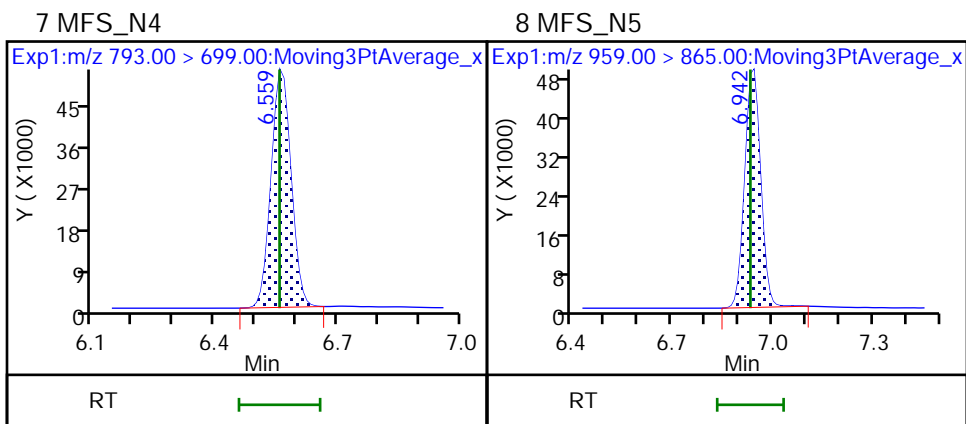
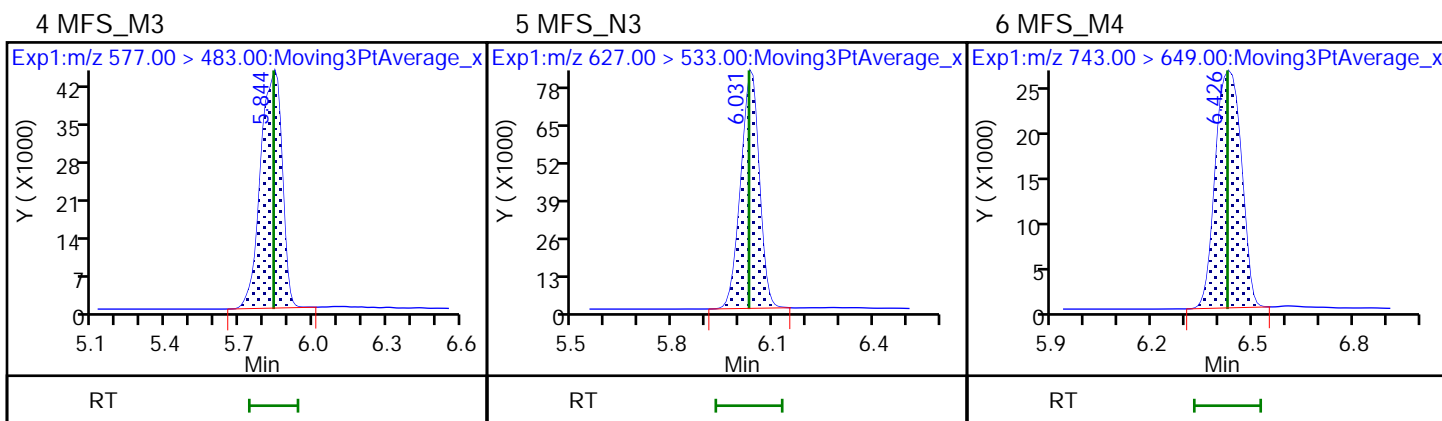
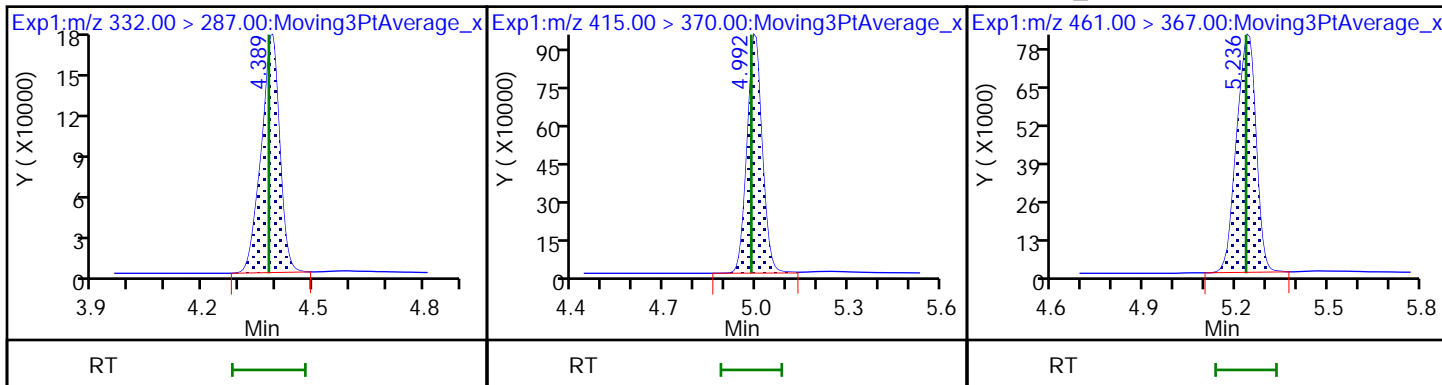
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-284258/1 Calibration Date: 08/10/2022 01:08
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG09MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.054		0.196	0.241	-18.9	50.0
MFS_M3	L1ID		2.549		0.232	0.246	-5.7	50.0
MFS_N3	L1ID		2.656		0.244	0.250	-2.7	50.0
MFS_M4	L1ID		1.166		0.209	0.245	-14.8	50.0
MFS_N4	L1ID		1.340		0.178	0.249	-28.3	50.0
MFS_N5	L1ID		1.201		0.224	0.252	-11.2	50.0
13C3 HFPO-DA	Ave	0.2019	0.2132		5.28	5.00	5.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 10-Aug-2022 01:08:02 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0063744-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 10-Aug-2022 10:48:03 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 10:46:47

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.394	0.0	0.879	741651	5.28	106	258
* 2 13C2 PFOA	415.00 > 370.00	4.999	4.999	0.0		3477860	5.00		335
3 MFS_N2	461.00 > 367.00	5.244	5.244	0.0	1.193	109178	0.1956	81.1	356
4 MFS_M3	577.00 > 483.00	5.848	5.848	0.0	1.331	93094	0.2322	94.3	182
5 MFS_N3	627.00 > 533.00	6.034	6.034	0.0	1.373	98626	0.2437	97.3	292
6 MFS_M4	743.00 > 649.00	6.430	6.430	0.0	1.463	42450	0.2092	85.2	216
7 MFS_N4	793.00 > 699.00	6.563	6.563	0.0	1.494	49450	0.1783	71.7	187
8 MFS_N5	959.00 > 865.00	6.938	6.938	0.0	1.579	44959	0.2241	88.8	484

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-01.d

Injection Date: 10-Aug-2022 01:08:02

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

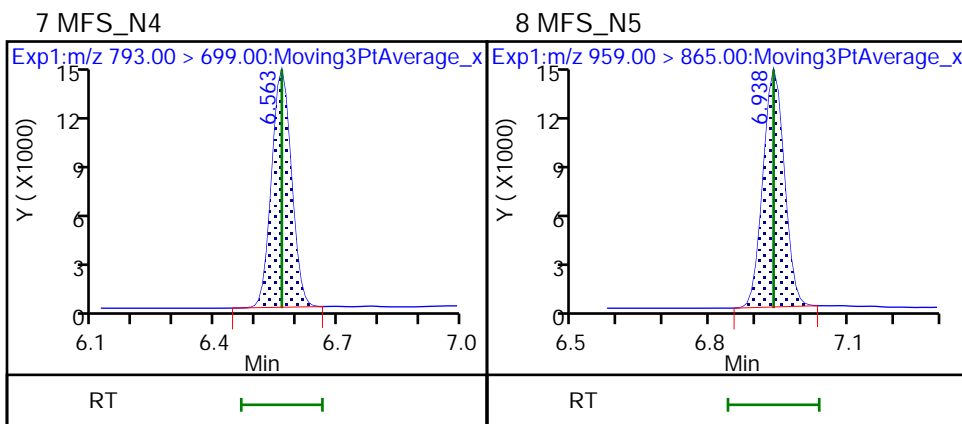
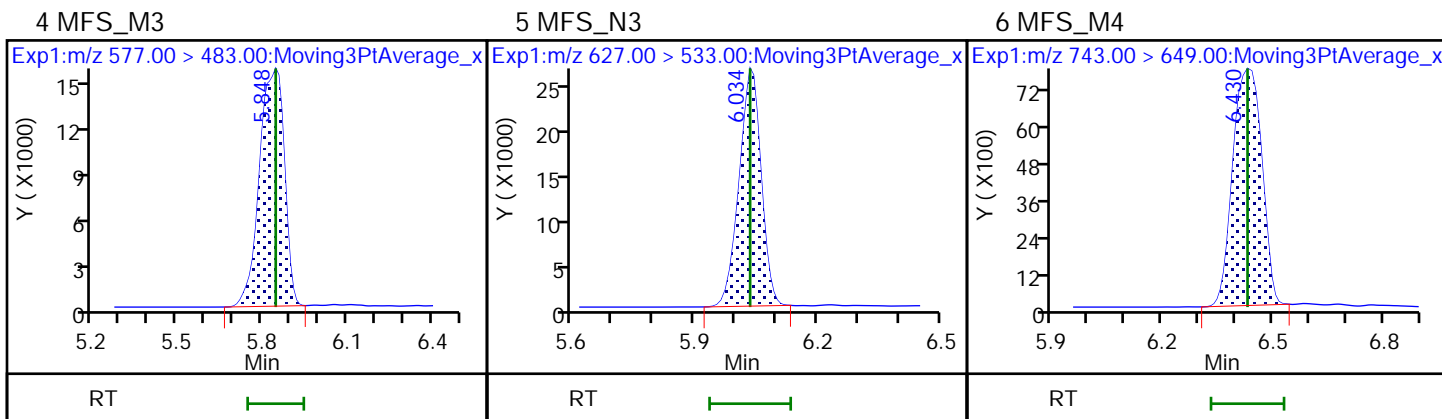
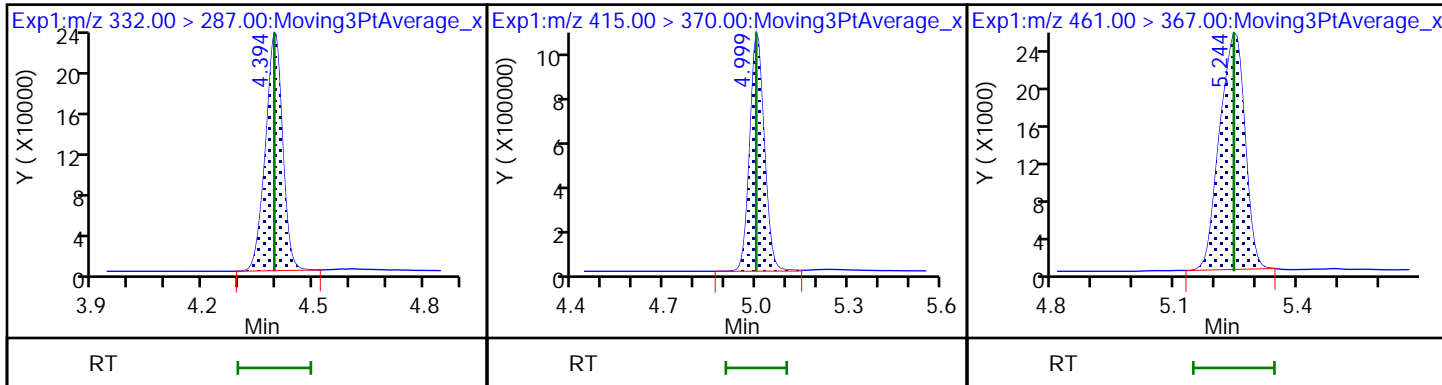
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284258/4 Calibration Date: 08/10/2022 01:47
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG09MFS-04.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.997		1.01	0.964	4.5	30.0
MFS_M3	L1ID		2.198		0.992	0.985	0.7	30.0
MFS_N3	L1ID		2.473		1.02	1.00	1.5	30.0
MFS_M4	L1ID		1.084		0.958	0.982	-2.5	30.0
MFS_N4	L1ID		1.315		1.01	0.995	1.7	30.0
MFS_N5	L1ID		1.186		0.952	1.01	-5.8	30.0
13C3 HFPO-DA	Ave	0.2019	0.2029		5.03	5.00	0.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-04.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 10-Aug-2022 01:47:21 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0063744-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 10-Aug-2022 10:48:05 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 10:46:52

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.380	4.394	-0.014	0.879	651634	5.03	101	238
* 2 13C2 PFOA	415.00 > 370.00	4.984	4.999	-0.015		3210888	5.00		323
3 MFS_N2	461.00 > 367.00	5.228	5.244	-0.016	1.194	376439	1.01	104	125
4 MFS_M3	577.00 > 483.00	5.833	5.848	-0.015	1.332	282118	0.99	101	178
5 MFS_N3	627.00 > 533.00	6.022	6.034	-0.012	1.375	322663	1.02	101	317
6 MFS_M4	743.00 > 649.00	6.413	6.430	-0.017	1.464	138646	0.9576	97.5	250
7 MFS_N4	793.00 > 699.00	6.547	6.563	-0.016	1.495	170572	1.01	102	311
8 MFS_N5	959.00 > 865.00	6.927	6.938	-0.011	1.581	156017	0.9516	94.2	677

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-04.d

Injection Date: 10-Aug-2022 01:47:21

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

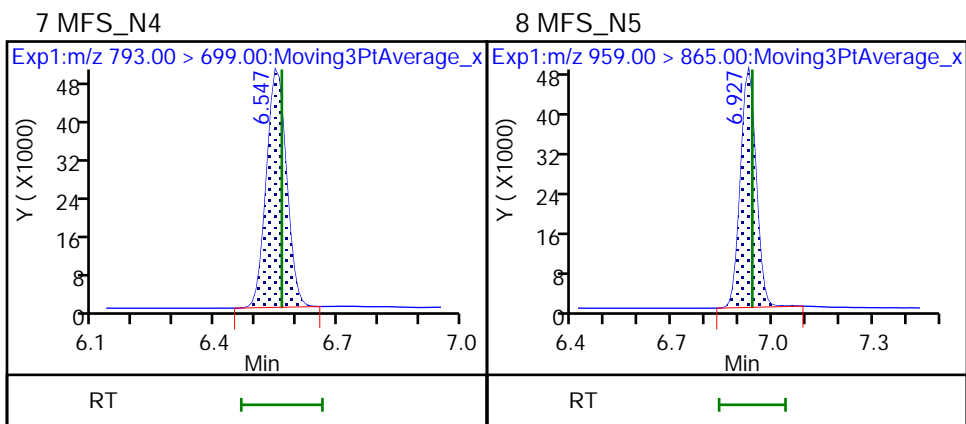
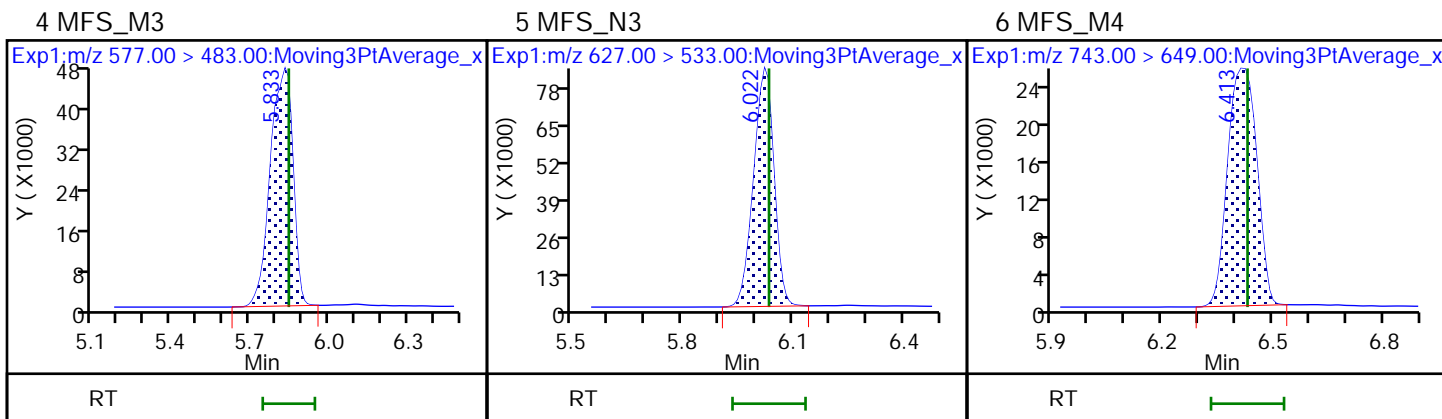
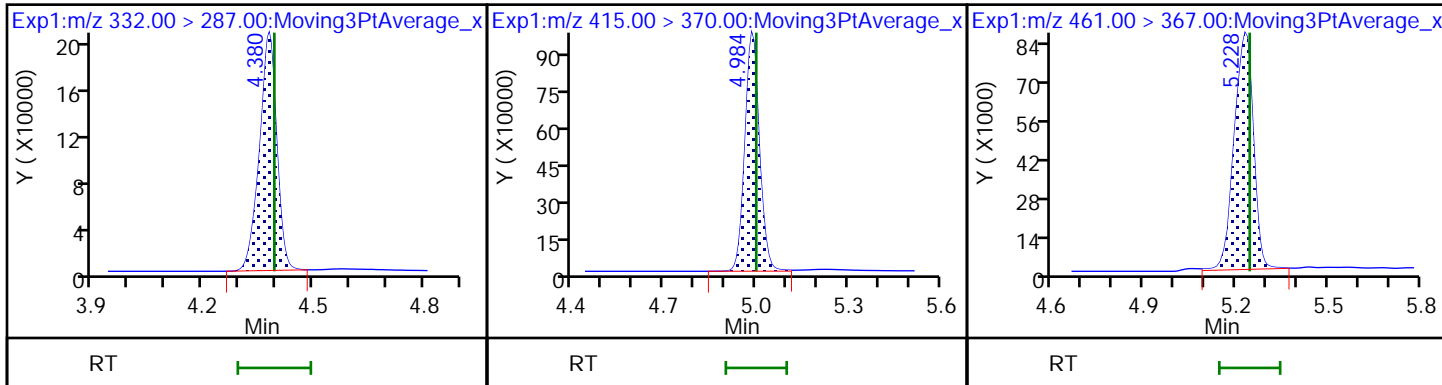
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-284700/1 Calibration Date: 08/11/2022 01:16
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG10MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.882		0.180	0.241	-25.4	50.0
MFS_M3	L1ID		2.302		0.202	0.246	-17.9	50.0
MFS_N3	L1ID		2.500		0.227	0.250	-9.3	50.0
MFS_M4	L1ID		1.127		0.200	0.245	-18.5	50.0
MFS_N4	L1ID		1.388		0.189	0.249	-24.2	50.0
MFS_N5	L1ID		1.230		0.230	0.252	-8.8	50.0
13C3 HFPO-DA	Ave	0.2019	0.2187		5.42	5.00	8.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 11-Aug-2022 01:16:47 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0063843-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 11-Aug-2022 06:26:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:26:15

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.394	0.0	0.879	747356	5.42	108	246
* 2 13C2 PFOA	415.00 > 370.00	4.999	4.999	0.0		3416516	5.00		327
3 MFS_N2	461.00 > 367.00	5.243	5.243	0.0	1.193	103800	0.1799	74.6	216
4 MFS_M3	577.00 > 483.00	5.846	5.846	0.0	1.331	84711	0.2022	82.1	80.0
5 MFS_N3	627.00 > 533.00	6.033	6.033	0.0	1.373	93554	0.2270	90.7	265
6 MFS_M4	743.00 > 649.00	6.429	6.429	0.0	1.463	41358	0.2000	81.5	177
7 MFS_N4	793.00 > 699.00	6.562	6.562	0.0	1.493	51621	0.1885	75.8	182
8 MFS_N5	959.00 > 865.00	6.936	6.936	0.0	1.579	46405	0.2301	91.2	322

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-01.d

Injection Date: 11-Aug-2022 01:16:47

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

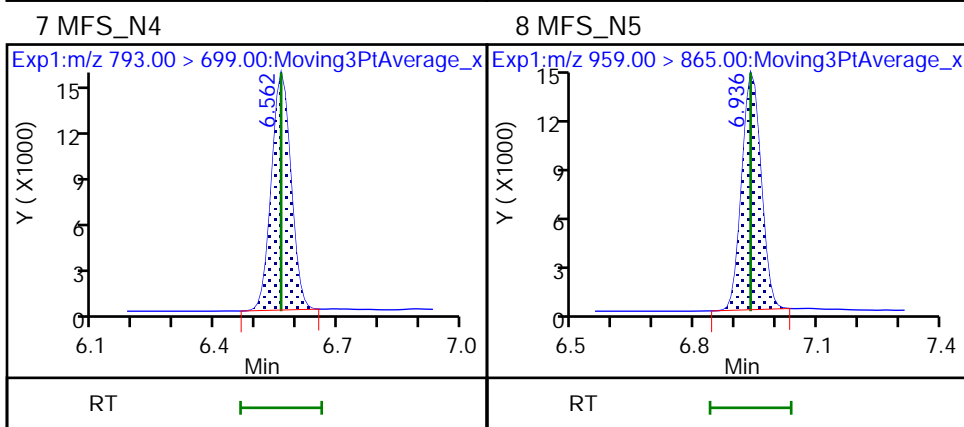
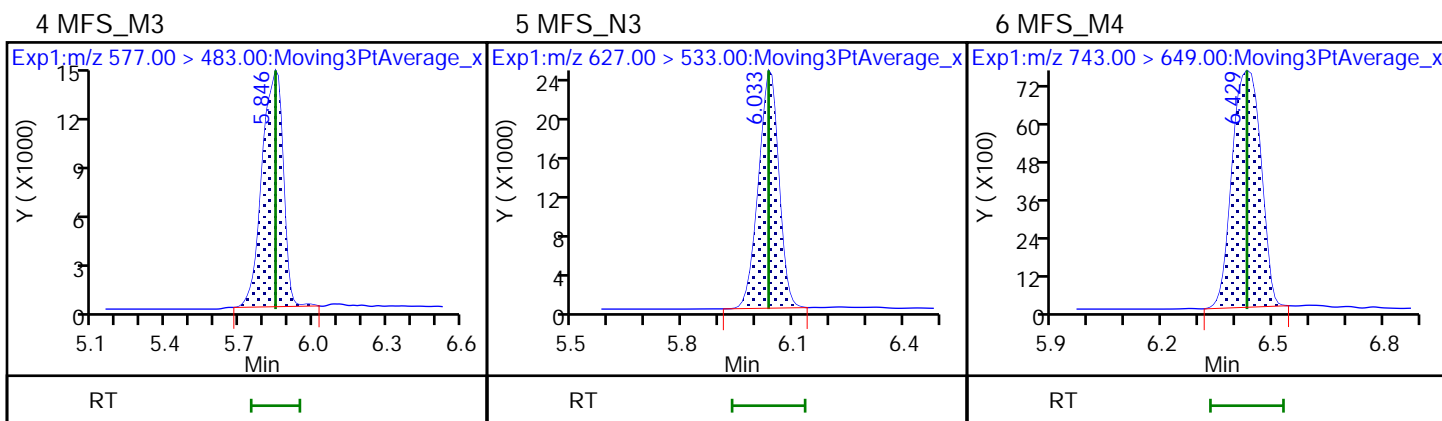
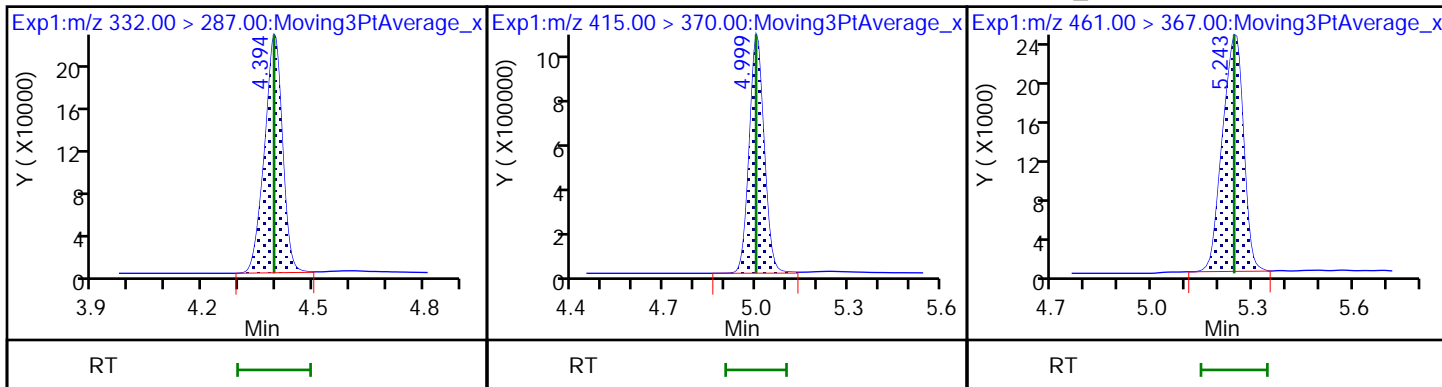
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284700/5 Calibration Date: 08/11/2022 02:08
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG10MFS-05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.894		0.970	0.964	0.6	30.0
MFS_M3	L1ID		2.099		0.943	0.985	-4.2	30.0
MFS_N3	L1ID		2.416		0.992	1.00	-0.9	30.0
MFS_M4	L1ID		1.109		0.981	0.982	-0.0	30.0
MFS_N4	L1ID		1.337		1.03	0.995	3.6	30.0
MFS_N5	L1ID		1.206		0.968	1.01	-4.1	30.0
13C3 HFPO-DA	Ave	0.2019	0.2043		5.06	5.00	1.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-05.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Aug-2022 02:08:37 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0063843-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 11-Aug-2022 06:27:01 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:26:22

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA

332.00 > 287.00 4.388 4.394 -0.006 0.878 613672 5.06 101 241

* 2 13C2 PFOA

415.00 > 370.00 4.997 4.999 -0.002 3003078 5.00 326

3 MFS_N2

461.00 > 367.00 5.238 5.243 -0.005 1.194 342361 0.9697 101 490

4 MFS_M3

577.00 > 483.00 5.848 5.846 0.002 1.333 253647 0.9432 95.8 130

5 MFS_N3

627.00 > 533.00 6.035 6.033 0.002 1.376 296946 0.99 99.1 320

6 MFS_M4

743.00 > 649.00 6.431 6.429 0.002 1.466 133586 0.9812 100.0 252

7 MFS_N4

793.00 > 699.00 6.564 6.562 0.002 1.496 163274 1.03 104 316

8 MFS_N5

959.00 > 865.00 6.938 6.936 0.002 1.581 149420 0.9681 95.9 467

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-05.d

Injection Date: 11-Aug-2022 02:08:37

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

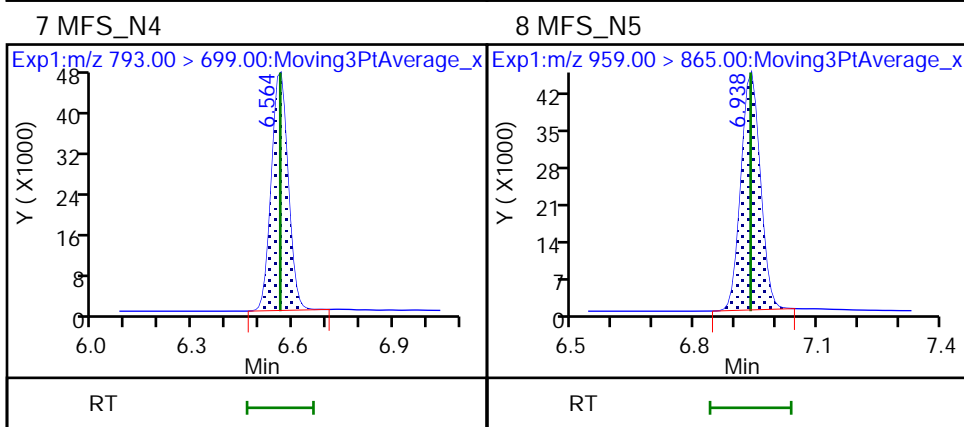
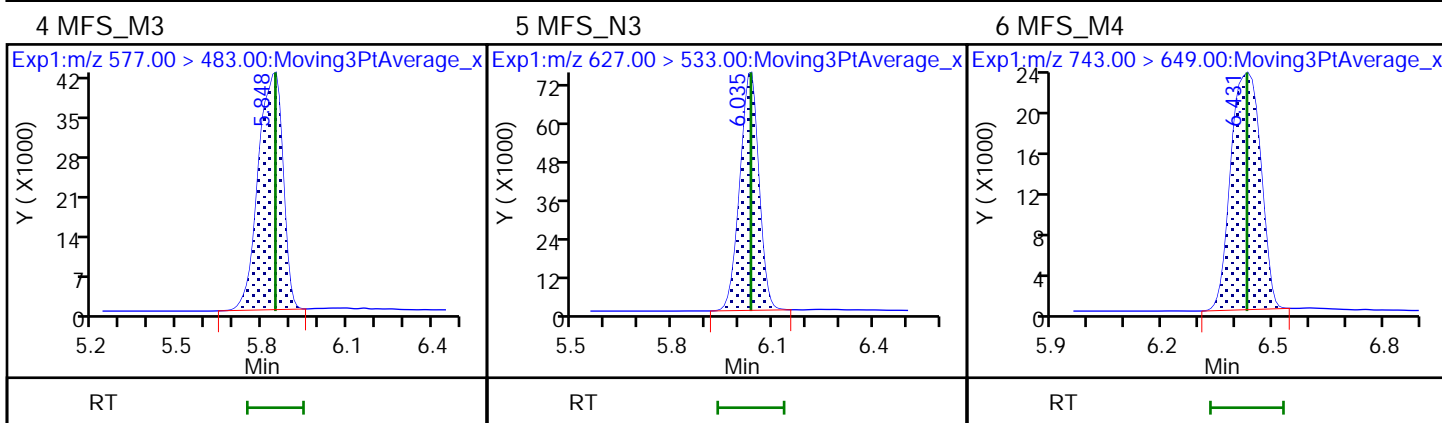
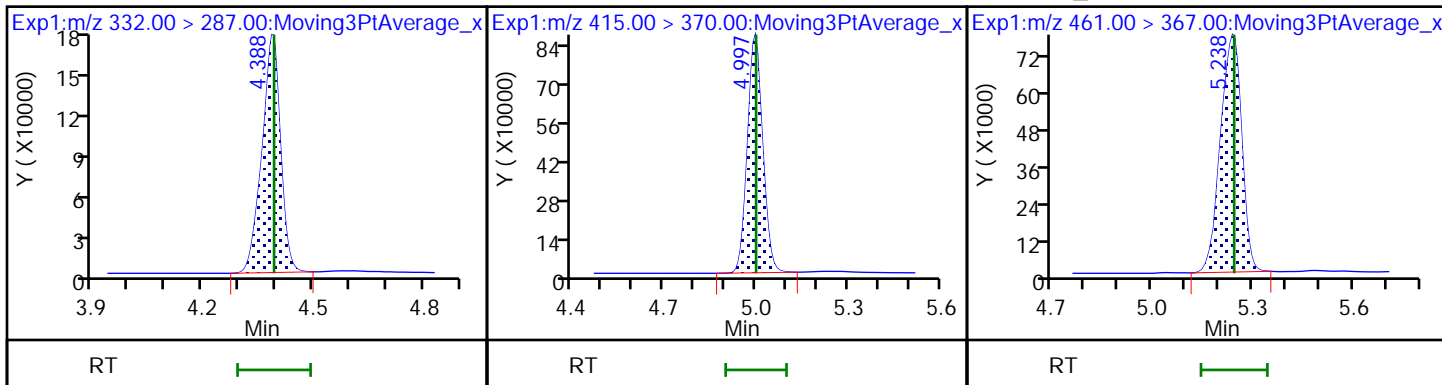
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279534/1-A

Matrix: Water Lab File ID: 22AUG5MFS-24.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 17:08

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-24.d
 Lims ID: MB 410-279534/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Aug-2022 17:08:38 ALS Bottle#: 29 Worklist Smp#: 24
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279534/1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-024
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:19:17 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:02
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.395	4.393	0.002	0.879	668119	5.05	101	2867
* 2 13C2 PFOA	415.00 > 370.00	5.000	4.998	0.002		3276548	5.00		3726

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-24.d

Injection Date: 05-Aug-2022 17:08:38

Instrument ID: 30733

Lims ID: MB 410-279534/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 29

Worklist Smp#: 24

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

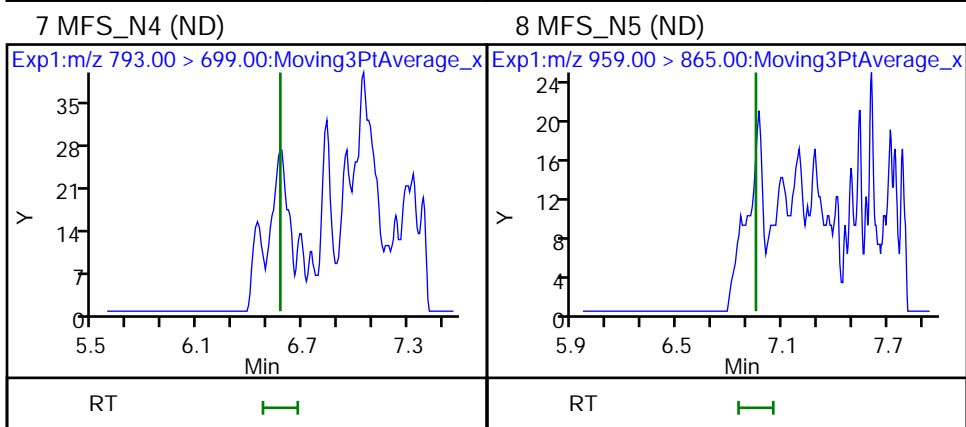
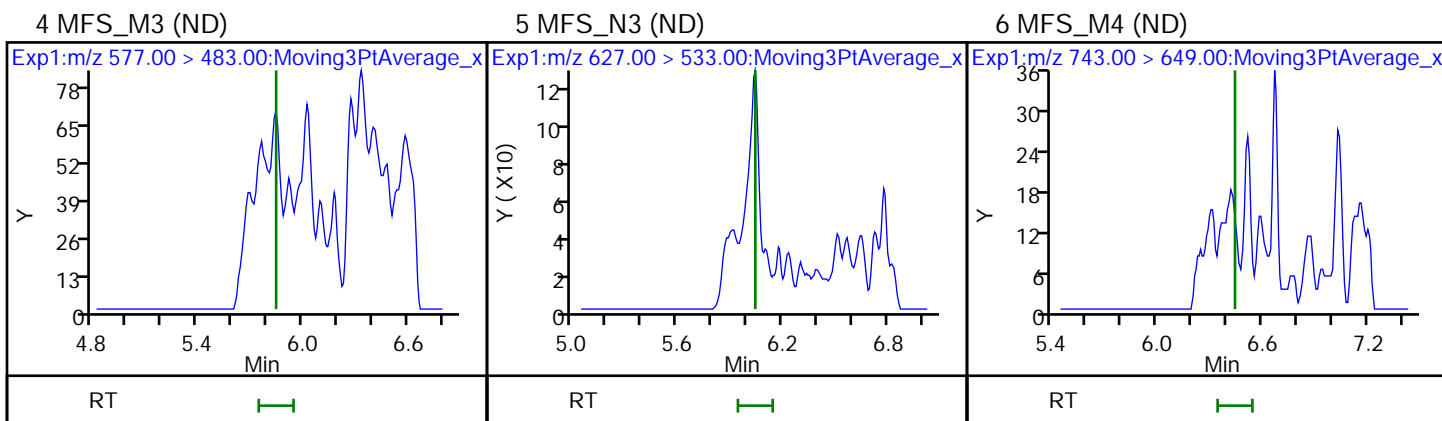
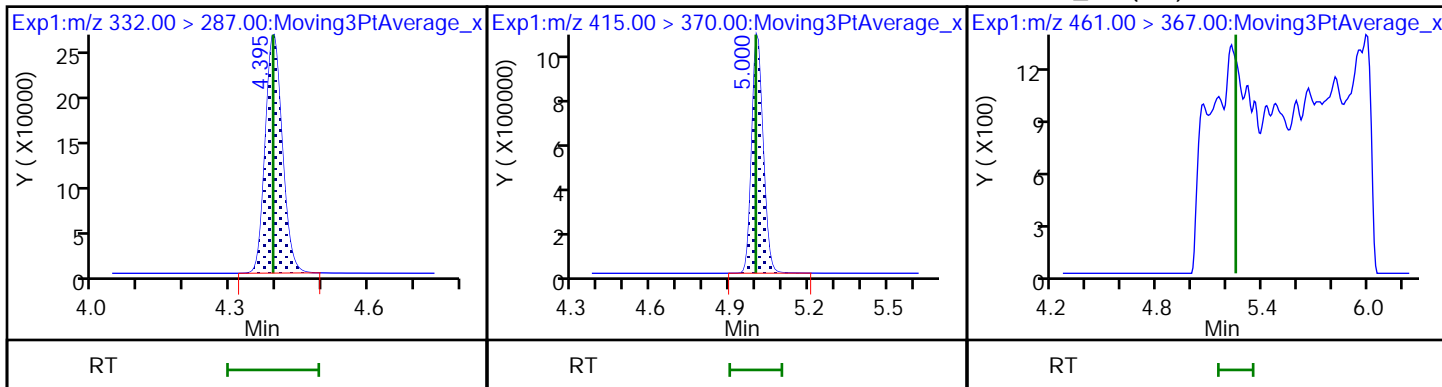
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-283151/8

Matrix: Water Lab File ID: 22AUG05MFSCAL-12.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/05/2022 10:21

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283151 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 05-Aug-2022 10:21:32 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:19
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.387	4.389	-0.002	0.878	648984	5.14	103	2787
* 2 13C2 PFOA	415.00 > 370.00	4.996	4.998	-0.002		3128259	5.00		4711
8 MFS_N5	959.00 > 865.00	6.947	6.942	0.005	1.584	1102	-0.0156		30.3

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d

Injection Date: 05-Aug-2022 10:21:32

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

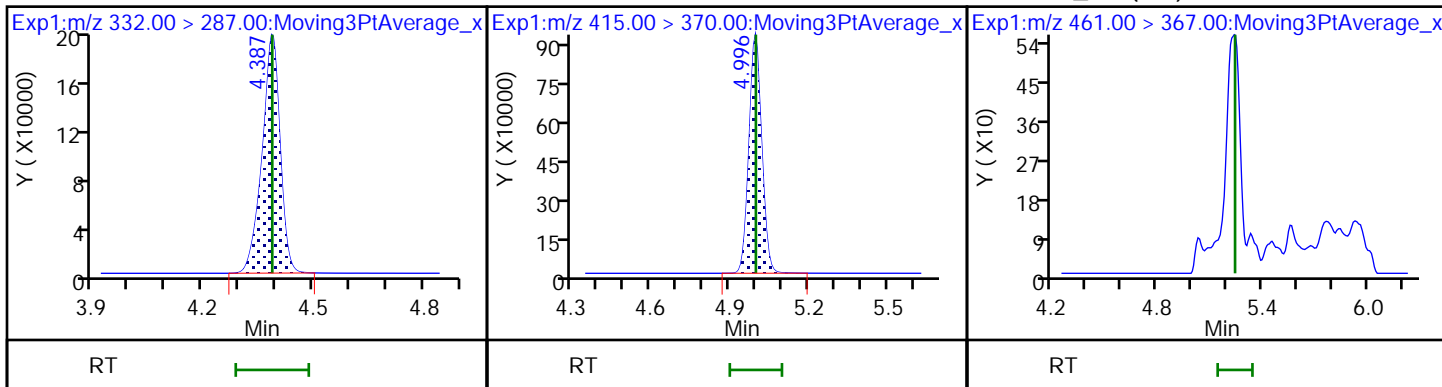
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

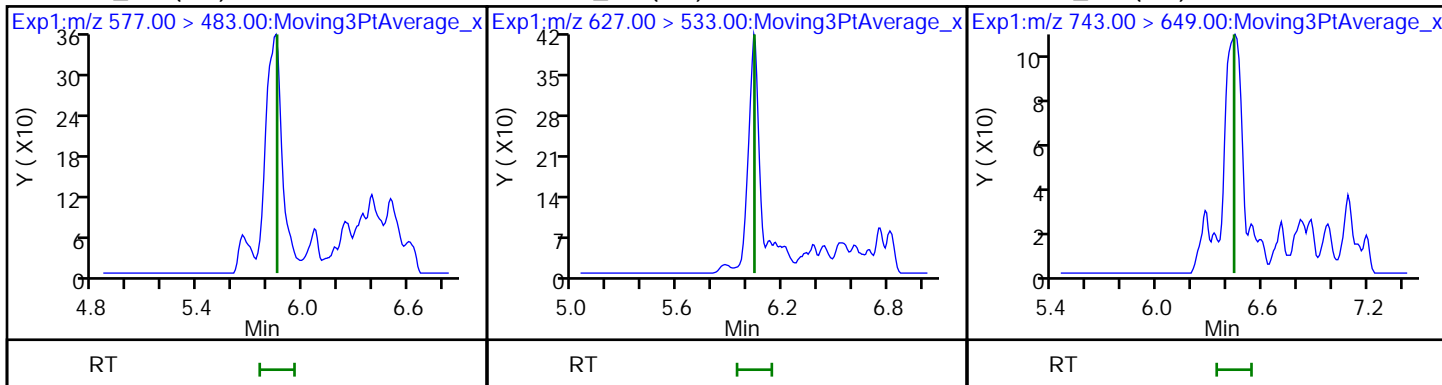
3 MFS_N2 (ND)



4 MFS_M3 (ND)

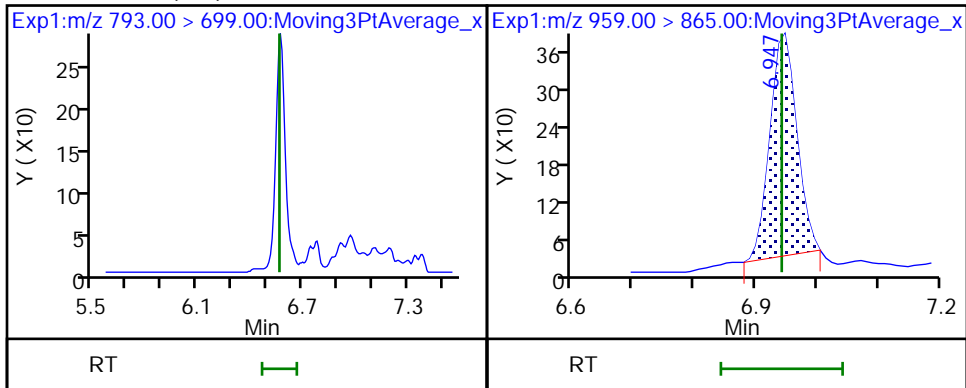
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279534/2-A

Matrix: Water Lab File ID: 22AUG5MFS-25.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 17:21

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	41.3		1.0	0.20
STL02874	MFS_M3	41.0		1.0	0.20
STL02875	MFS_N3	40.5		1.0	0.20
STL02876	MFS_M4	43.0		1.0	0.50
STL02877	MFS_N4	41.7		2.0	1.0
STL02888	MFS_N5	43.8		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-25.d
 Lims ID: LCS 410-279534/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Aug-2022 17:21:15 ALS Bottle#: 30 Worklist Smp#: 25
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279534/2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:19:17 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:05
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.391	4.393	-0.002	0.878	656279	5.23	105	2990
* 2 13C2 PFOA	415.00 > 370.00	5.003	4.998	0.005		3108926	5.00		3835
3 MFS_N2	461.00 > 367.00	5.252	5.246	0.006	1.196	3621802	10.3	107	1314
4 MFS_M3	577.00 > 483.00	5.859	5.848	0.011	1.334	2743562	10.2	104	2612
5 MFS_N3	627.00 > 533.00	6.044	6.044	0.0	1.376	3131434	10.1	101	4798
6 MFS_M4	743.00 > 649.00	6.443	6.442	0.001	1.467	1475360	10.8	110	4276
7 MFS_N4	793.00 > 699.00	6.573	6.573	0.0	1.497	1617779	10.4	105	6117
8 MFS_N5	959.00 > 865.00	6.948	6.947	0.001	1.582	1770675	11.0	108	10290

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-25.d

Injection Date: 05-Aug-2022 17:21:15

Instrument ID: 30733

Lims ID: LCS 410-279534/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 30

Worklist Smp#: 25

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

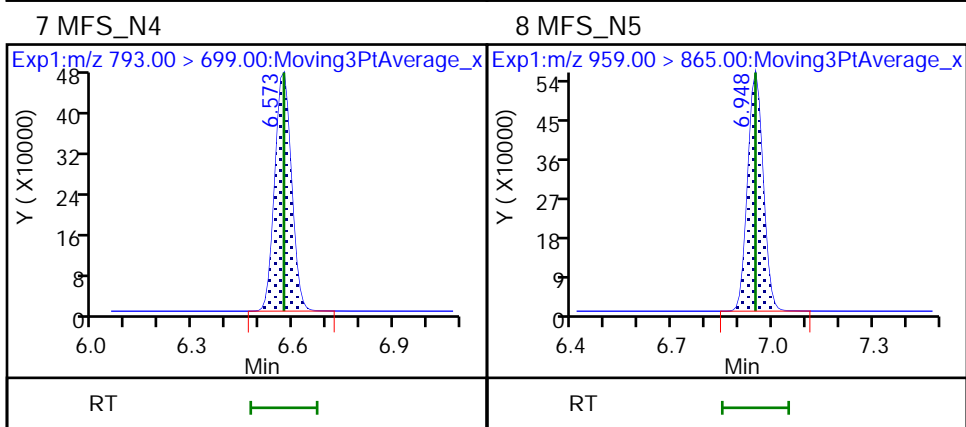
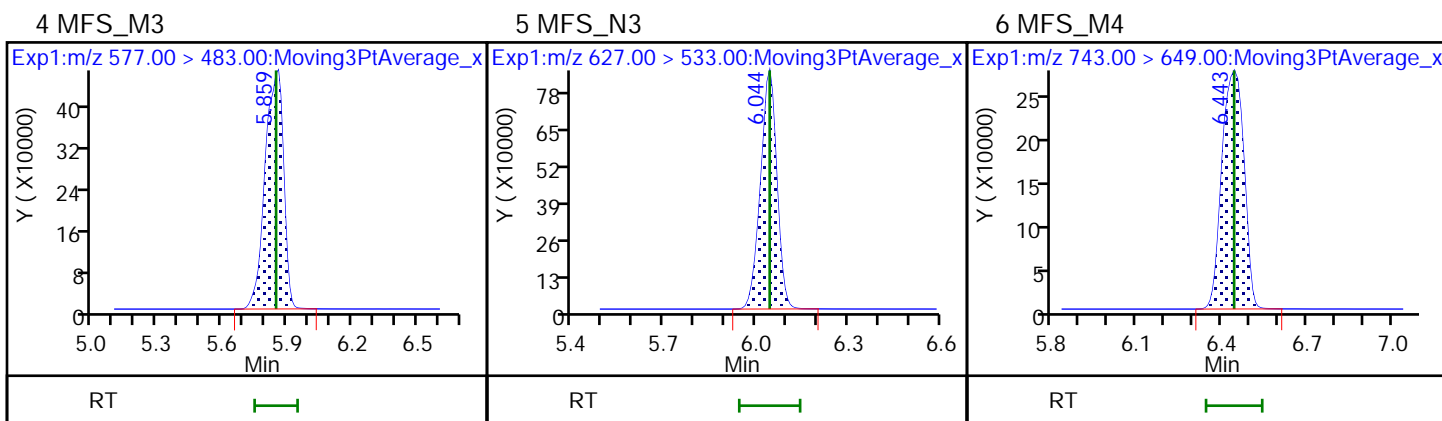
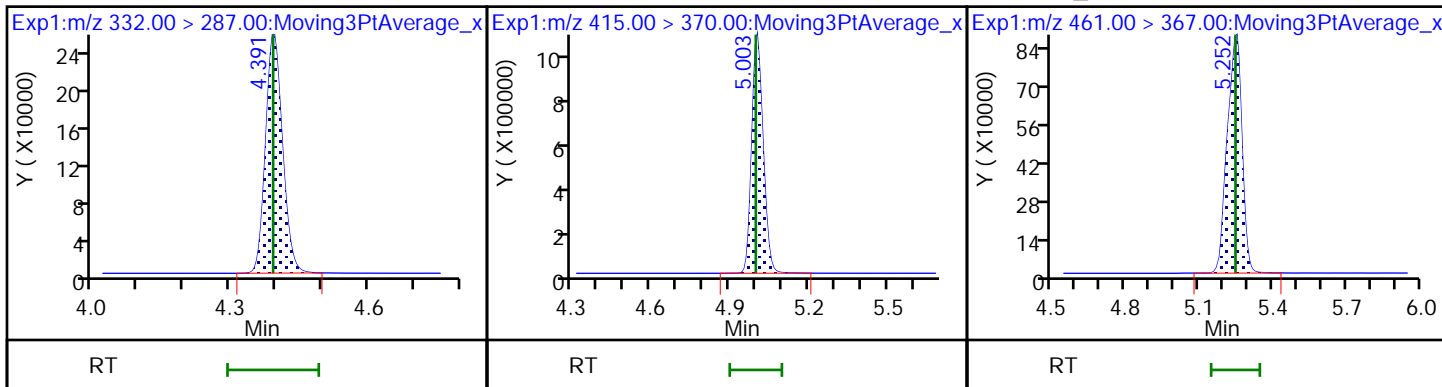
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102D_MS MS Lab Sample ID: 410-90529-1 MS

Matrix: Water Lab File ID: 22AUG08MFS-11.d

Analysis Method: MFS Date Collected: 07/07/2022 16:50

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 314.5(mL) Date Analyzed: 08/08/2022 20:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283896 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	53.0		0.79	0.16
STL02874	MFS_M3	56.6		0.79	0.16
STL02875	MFS_N3	62.7		0.79	0.16
STL02876	MFS_M4	37.5		0.79	0.40
STL02877	MFS_N4	38.1		1.6	0.79
STL02888	MFS_N5	16.7		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	116		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-11.d
 Lims ID: 410-90529-A-1-B MS
 Client ID: MW-102D_MS
 Sample Type: MS
 Inject. Date: 08-Aug-2022 20:36:59 ALS Bottle#: 17 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-1-B MS RA
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:30 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:40:10
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.390	4.379	0.011	0.878	545042	5.81	116	311
* 2 13C2 PFOA	415.00 > 370.00	4.999	4.983	0.016		2322637	5.00		333
3 MFS_N2	461.00 > 367.00	5.236	5.232	0.004	1.193	4844846	16.7	173	2996
4 MFS_M3	577.00 > 483.00	5.809	5.839	-0.030	1.323	3943120	17.8	181	199
5 MFS_N3	627.00 > 533.00	6.033	6.028	0.005	1.374	5055138	19.7	197	372
6 MFS_M4	743.00 > 649.00	6.429	6.423	0.006	1.464	1344156	11.8	120	255
7 MFS_N4	793.00 > 699.00	6.561	6.558	0.003	1.495	1539779	12.0	120	467
8 MFS_N5	959.00 > 865.00	6.935	6.932	0.003	1.580	706113	5.25	52.0	761

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-11.d

Injection Date: 08-Aug-2022 20:36:59

Instrument ID: 30733

Lims ID: 410-90529-A-1-B MS

Client ID: MW-102D_MS

Operator ID: US19_USR_INS20260

ALS Bottle#: 17

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

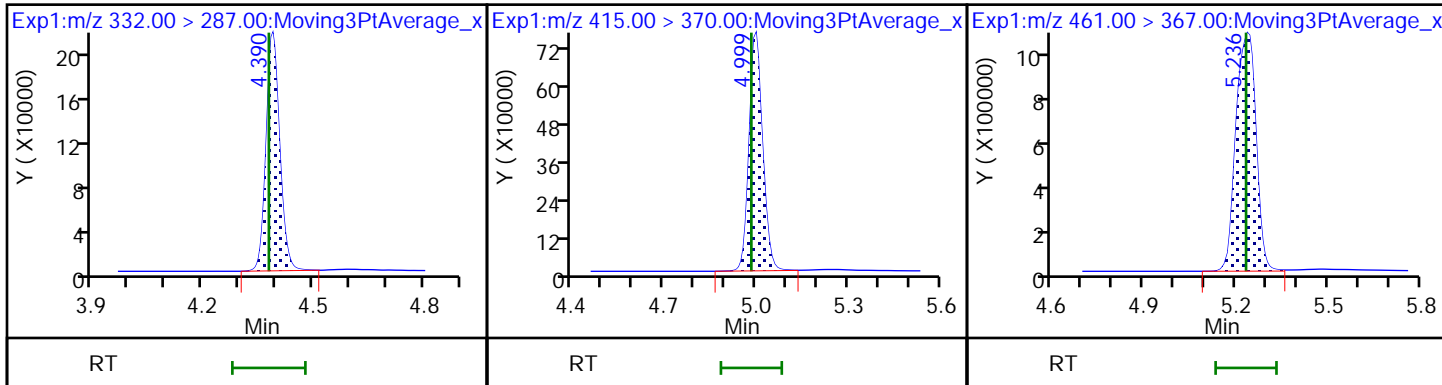
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

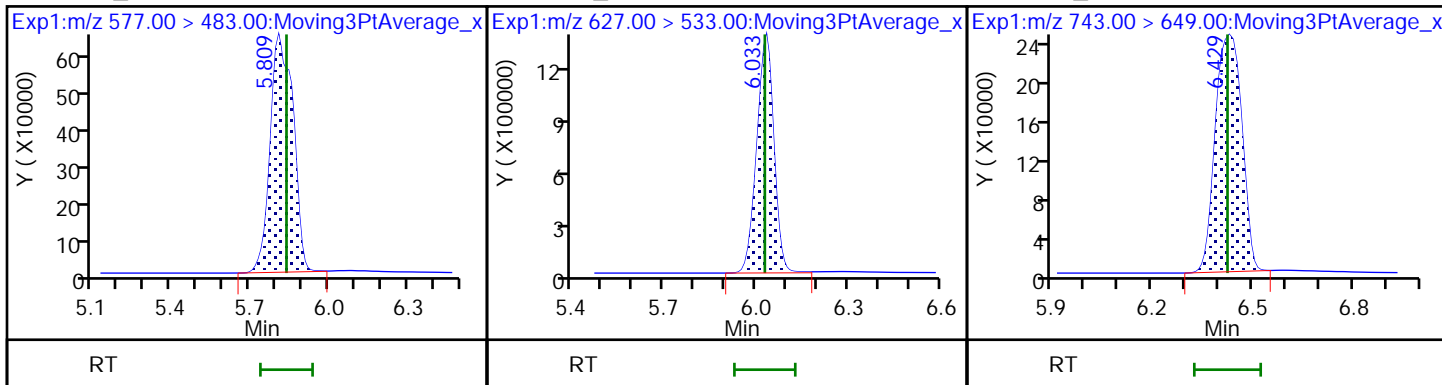
3 MFS_N2



4 MFS_M3

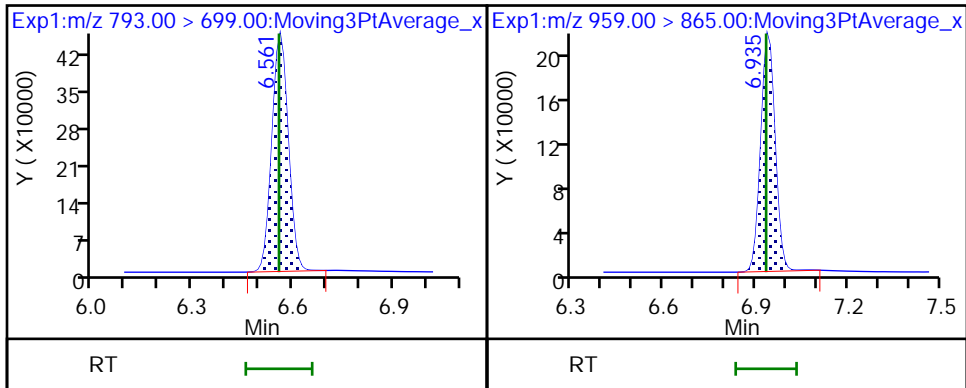
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90529-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-102D_MSD MSD Lab Sample ID: 410-90529-1 MSD

Matrix: Water Lab File ID: 22AUG09MFS-03.d

Analysis Method: MFS Date Collected: 07/07/2022 16:55

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 291.5(mL) Date Analyzed: 08/10/2022 01:34

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284258 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	50.8		0.86	0.17
STL02874	MFS_M3	53.7		0.86	0.17
STL02875	MFS_N3	59.5		0.86	0.17
STL02876	MFS_M4	38.8		0.86	0.43
STL02877	MFS_N4	39.4		1.7	0.86
STL02888	MFS_N5	35.4		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-03.d
 Lims ID: 410-90529-A-1-C MSD
 Client ID: MW-102D_MSD
 Sample Type: MSD
 Inject. Date: 10-Aug-2022 01:34:43 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90529-A-1-C MSD RA
 Misc. Info.: Plate: 10 Rack: 1 410-0063744-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 10-Aug-2022 10:48:03 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 10:47:26

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA

332.00 > 287.00 4.391 4.394 -0.003 0.879 560312 4.56 91.2 306

* 2 13C2 PFOA

415.00 > 370.00 4.996 4.999 -0.003 3043252 5.00 339

3 MFS_N2

461.00 > 367.00 5.237 5.244 -0.007 1.193 4427578 14.8 154 903

4 MFS_M3

577.00 > 483.00 5.810 5.848 -0.038 1.323 3565311 15.6 159 196 M

5 MFS_N3

627.00 > 533.00 6.035 6.034 0.001 1.374 4569087 17.3 173 361

6 MFS_M4

743.00 > 649.00 6.430 6.430 0.0 1.464 1325970 11.3 115 270

7 MFS_N4

793.00 > 699.00 6.563 6.563 0.0 1.494 1517996 11.5 115 398

8 MFS_N5

959.00 > 865.00 6.937 6.938 -0.001 1.580 1422381 10.3 102 835

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00371

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-03.d

Injection Date: 10-Aug-2022 01:34:43

Instrument ID: 30733

Lims ID: 410-90529-A-1-C MSD

Client ID: MW-102D_MSD

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

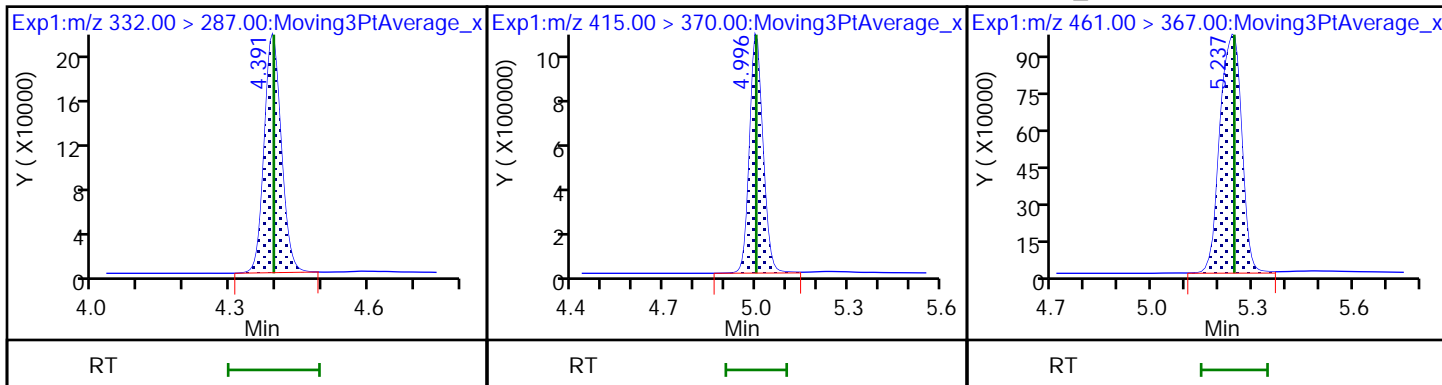
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

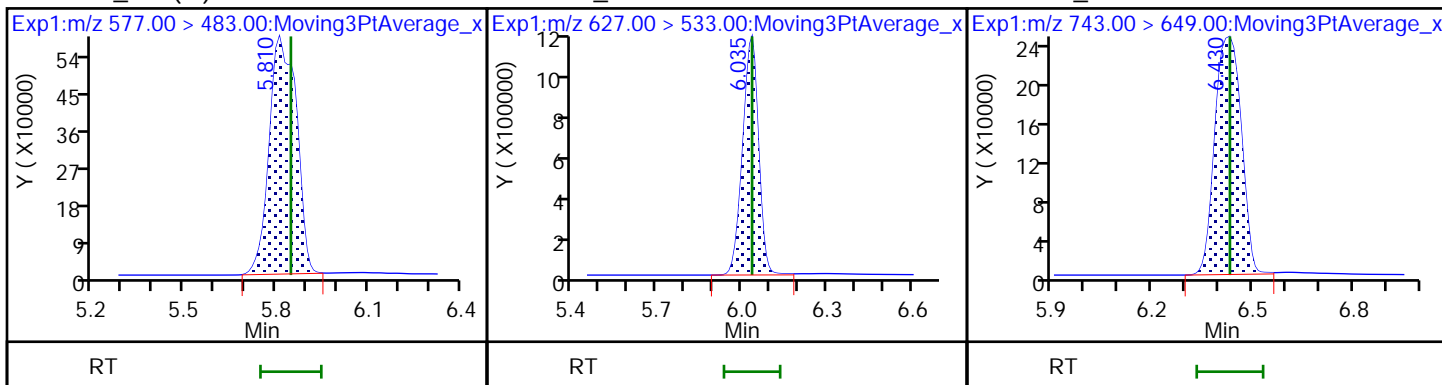
3 MFS_N2



4 MFS_M3 (M)

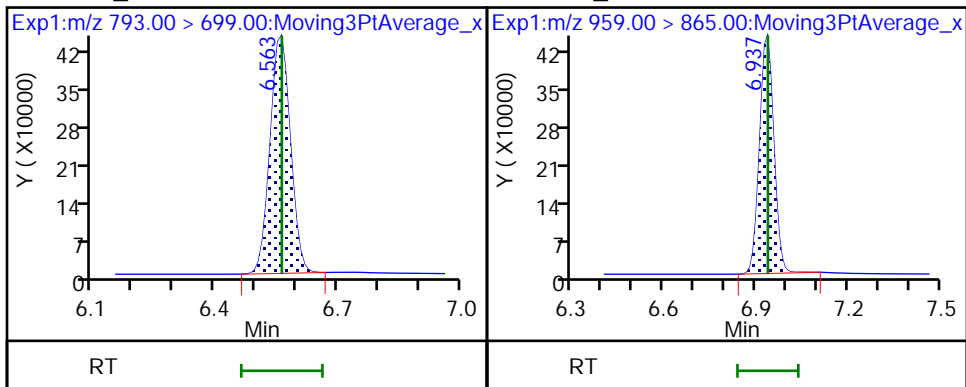
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC

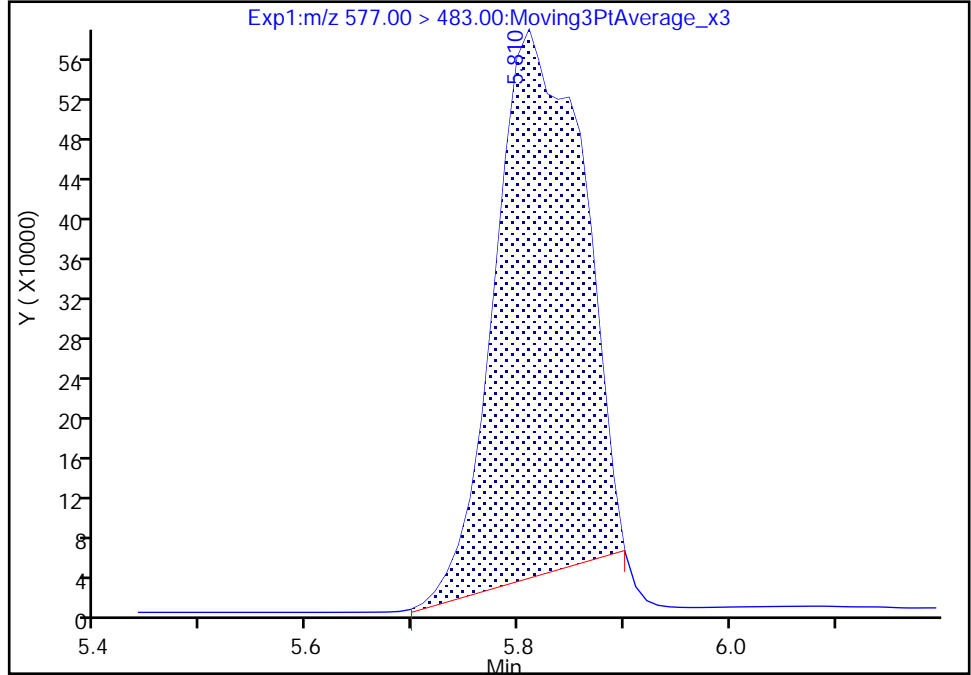
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-03.d
Injection Date: 10-Aug-2022 01:34:43 Instrument ID: 30733
Lims ID: 410-90529-A-1-C MSD
Client ID: MW-102D_MSD
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

4 MFS_M3, CAS: STL02874

Signal: 1

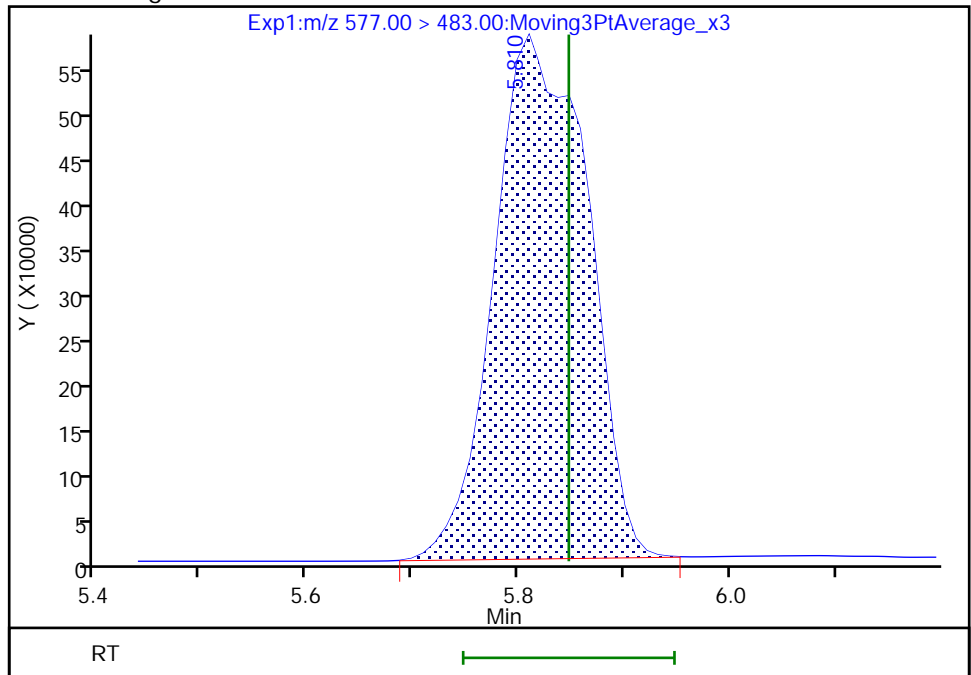
RT: 5.81
Area: 3177080
Amount: 13.929970
Amount Units: ng/ml

Processing Integration Results



RT: 5.81
Area: 3565311
Amount: 15.641690
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 10:47:22
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 397 of 417

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 08:53

Analysis Batch Number: 283151 End Date: 08/05/2022 10:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-283151/1		08/05/2022 08:53	1	22AUG05MFSCAL-0 5.d	Gemini C18 50mm 3 (mm)
IC 410-283151/2		08/05/2022 09:05	1	22AUG05MFSCAL-0 6.d	Gemini C18 50mm 3 (mm)
IC 410-283151/3		08/05/2022 09:18	1	22AUG05MFSCAL-0 7.d	Gemini C18 50mm 3 (mm)
IC 410-283151/4		08/05/2022 09:31	1	22AUG05MFSCAL-0 8.d	Gemini C18 50mm 3 (mm)
ICISAV 410-283151/5		08/05/2022 09:43	1	22AUG05MFSCAL-0 9.d	Gemini C18 50mm 3 (mm)
IC 410-283151/6		08/05/2022 09:56	1	22AUG05MFSCAL-1 0.d	Gemini C18 50mm 3 (mm)
IC 410-283151/7		08/05/2022 10:08	1	22AUG05MFSCAL-1 1.d	Gemini C18 50mm 3 (mm)
ICB 410-283151/8		08/05/2022 10:21	1	22AUG05MFSCAL-1 2.d	Gemini C18 50mm 3 (mm)
ICV 410-283151/9		08/05/2022 10:34	1	22AUG05MFSCAL-1 3.d	Gemini C18 50mm 3 (mm)
CCV 410-283151/10		08/05/2022 10:46	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250 End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283250/1		08/05/2022 12:17	1	22AUG5MFS-01.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 12:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 12:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 12:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:21	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/7		08/05/2022 13:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:47	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:12	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:50	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:15	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/16		08/05/2022 15:27	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:40	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:30	1		Gemini C18 50mm 3 (mm)
CCVL 410-283250/23		08/05/2022 16:56	1	22AUG5MFS-23.d	Gemini C18 50mm 3 (mm)
MB 410-279534/1-A		08/05/2022 17:08	1	22AUG5MFS-24.d	Gemini C18 50mm 3 (mm)
LCS 410-279534/2-A		08/05/2022 17:21	1	22AUG5MFS-25.d	Gemini C18 50mm 3 (mm)
410-90529-1	MW-102D	08/05/2022 17:33	1	22AUG5MFS-26.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:59	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/29		08/05/2022 18:11	1	22AUG5MFS-29.d	Gemini C18 50mm 3 (mm)
410-90529-2	MW-118S	08/05/2022 18:24	1	22AUG5MFS-30.d	Gemini C18 50mm 3 (mm)
410-90529-3	MW-118D	08/05/2022 18:36	1	22AUG5MFS-31.d	Gemini C18 50mm 3 (mm)
410-90529-4	MW-101S	08/05/2022 18:49	1	22AUG5MFS-32.d	Gemini C18 50mm 3 (mm)
410-90529-5	MW-101D	08/05/2022 19:02	1	22AUG5MFS-33.d	Gemini C18 50mm 3 (mm)
410-90529-6	MW-107S	08/05/2022 19:15	1	22AUG5MFS-34.d	Gemini C18 50mm 3 (mm)
410-90529-7	MW-107D	08/05/2022 19:28	1	22AUG5MFS-35.d	Gemini C18 50mm 3 (mm)
410-90529-8	MW-109S	08/05/2022 19:41	1	22AUG5MFS-36.d	Gemini C18 50mm 3 (mm)
410-90529-9	MW-109D	08/05/2022 19:53	1	22AUG5MFS-37.d	Gemini C18 50mm 3 (mm)
410-90529-10	EB_070822	08/05/2022 20:06	1	22AUG5MFS-38.d	Gemini C18 50mm 3 (mm)
CCV 410-283250/39		08/05/2022 20:18	1	22AUG5MFS-39.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:46	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250 End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		08/05/2022 21:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 22:12	1		Gemini C18 50mm 3 (mm)
CCVL 410-283250/50		08/05/2022 22:37	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/08/2022 18:56

Analysis Batch Number: 283896 End Date: 08/08/2022 21:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283896/1		08/08/2022 18:56	1	22AUG08MFS-03.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:08	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:21	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:34	100		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:46	100		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:59	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:11	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:24	1		Gemini C18 50mm 3 (mm)
410-90529-1 MS	MW-102D_MS MS	08/08/2022 20:36	1	22AUG08MFS-11.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:49	1		Gemini C18 50mm 3 (mm)
CCV 410-283896/11		08/08/2022 21:02	1	22AUG08MFS-13.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/10/2022 01:08

Analysis Batch Number: 284258 End Date: 08/10/2022 01:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-284258/1		08/10/2022 01:08	1	22AUG09MFS-01.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 01:22	1		Gemini C18 50mm 3 (mm)
410-90529-1 MSD	MW-102D_MSD MSD	08/10/2022 01:34	1	22AUG09MFS-03.d	Gemini C18 50mm 3 (mm)
CCV 410-284258/4		08/10/2022 01:47	1	22AUG09MFS-04.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90529-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/11/2022 01:16

Analysis Batch Number: 284700 End Date: 08/11/2022 02:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-284700/1		08/11/2022 01:16	1	22AUG10MFS-01.d	Gemini C18 50mm 3 (mm)
410-90529-8 DL	MW-109S DL	08/11/2022 01:30	10	22AUG10MFS-02.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/11/2022 01:43	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/11/2022 01:55	10		Gemini C18 50mm 3 (mm)
CCV 410-284700/5		08/11/2022 02:08	1	22AUG10MFS-05.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90529-1

SDG No.: _____

Batch Number: 279534 Batch Start Date: 07/26/22 09:37 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00013
MB 410-279534/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279534/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90529-A-1	MW-102D	3535, MFS	T	306.21 g	27.55 g	278.7 mL	1 mL		0.1 mL
410-90529-A-1	MW-102D_MS	3535, MFS	T	342.20 g	27.75 g	314.5 mL	1 mL	0.1 mL	0.1 mL
410-90529-A-1	MW-102D_MSD	3535, MFS	T	318.87 g	27.34 g	291.5 mL	1 mL	0.1 mL	0.1 mL
410-90529-A-2	MW-118S	3535, MFS	T	333.10 g	27.37 g	305.7 mL	1 mL		0.1 mL
410-90529-A-3	MW-118D	3535, MFS	T	324.93 g	27.65 g	297.3 mL	1 mL		0.1 mL
410-90529-A-4	MW-101S	3535, MFS	T	304.66 g	27.24 g	277.4 mL	1 mL		0.1 mL
410-90529-A-5	MW-101D	3535, MFS	T	297.98 g	27.42 g	270.6 mL	1 mL		0.1 mL
410-90529-A-6	MW-107S	3535, MFS	T	323.11 g	27.37 g	295.7 mL	1 mL		0.1 mL
410-90529-A-7	MW-107D	3535, MFS	T	339.11 g	27.40 g	311.7 mL	1 mL		0.1 mL
410-90529-A-8	MW-109S	3535, MFS	T	305.73 g	27.64 g	278.1 mL	1 mL		0.1 mL
410-90529-A-9	MW-109D	3535, MFS	T	301.36 g	27.69 g	273.7 mL	1 mL		0.1 mL
410-90529-A-10	EB_070822	3535, MFS	T	312.54 g	28.27 g	284.3 mL	1 mL		0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	21, 8
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	4547707262233
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	EBG 20094
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90529-1

SDG No.: _____

Batch Number: 279534 Batch Start Date: 07/26/22 09:37 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279534

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:37:00AM

Method Code: 410-3535_28D-410

Batch End: B410-279534



7/20 7/21

Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Rcvd	Adj1	Adj2					
1	MB~410-279534/1 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
2	LCS~410-279534/2 N/A	N/A	300 g 50 g	250 mL 1 mL				N/A	N/A	N/A		
3	410-90529-A-1 (MFS_IDA)	N/A (410-90529-1)	306.21 g 27.55 g	278.7 mL 1 mL				7/14/22	7_Days	4		
4	410-90529-A-1~MS (MFS_IDA)	N/A (410-90529-1)	342.20 g 27.75 g	314.5 mL 1 mL				7/14/22	7_Days	4		
5	410-90529-A-1~MSD (MFS_IDA)	N/A (410-90529-1)	318.87 g 27.34 g	291.5 mL 1 mL				7/14/22	7_Days	4		
6	410-90529-A-2 (MFS_IDA)	N/A (410-90529-1)	333.10 g 27.37 g	305.7 mL 1 mL				7/14/22	7_Days	4		
7	410-90529-A-3 (MFS_IDA)	N/A (410-90529-1)	324.93 g 27.65 g	297.3 mL 1 mL				7/14/22	7_Days	4		
8	410-90529-A-4 (MFS_IDA)	N/A (410-90529-1)	304.66 g 27.24 g	277.4 mL 1 mL				7/14/22	7_Days	4		
9	410-90529-A-5 (MFS_IDA)	N/A (410-90529-1)	297.98 g 27.42 g	270.6 mL 1 mL				7/14/22	7_Days	4		
10	410-90529-A-6 (MFS_IDA)	N/A (410-90529-1)	323.11 g 27.37 g	295.7 mL 1 mL				7/14/22	7_Days	4		

*N. Equip A40^c
3
AW K3318
77020*

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)













Batch Number: 410-279534

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:37:00AM

Method Code: 410-3535_28D-410

Batch End:

11	410-90529-A-7 (MFS_IDA)	N/A (410-90529-1)	339.11 g	311.7 mL				7/14/22	7_Days	4	
			27.40 g	1 mL							
12	410-90529-A-8 (MFS_IDA)	N/A (410-90529-1)	305.73 g	278.1 mL				7/14/22	7_Days	4	
			27.64 g	1 mL							
13	410-90529-A-9 (MFS_IDA)	N/A (410-90529-1)	301.36 g	273.7 mL				7/14/22	7_Days	4	
			27.69 g	1 mL							
14	410-90529-A-10 (MFS_IDA)	N/A (410-90529-1)	312.54 g	284.3 mL				7/14/22	7_Days	4	
			28.27 g	1 mL							
15	410-90799-A-1 (MFS_IDA)	N/A (410-90799-1)	345.06 g	317.5 mL				7/15/22	7_Days	4	
			27.53 g	1 mL							
16	410-90799-A-2 (MFS_IDA)	N/A (410-90799-1)	294.76 g	267.3 mL				7/15/22	7_Days	4	
			27.45 g	1 mL							
17	410-90799-A-3 (MFS_IDA)	N/A (410-90799-1)	302.00 g	274.6 mL				7/15/22	7_Days	4	
			27.41 g	1 mL							
18	410-90799-A-4 (MFS_IDA)	N/A (410-90799-1)	313.78 g	286.2 mL				7/15/22	7_Days	4	
			27.60 g	1 mL							
19	410-90799-A-5 (MFS_IDA)	N/A (410-90799-1)	308.76 g	281.1 mL				7/15/22	7_Days	4	
			27.62 g	1 mL							
20	410-90799-A-6 (MFS_IDA)	N/A (410-90799-1)	313.75 g	286.5 mL				7/15/22	7_Days	4	
			27.24 g	1 mL							
21	410-90799-A-7 (MFS_IDA)	N/A (410-90799-1)	317.93 g	290.6 mL				7/15/22	7_Days	4	
			27.31 g	1 mL							
22	410-90799-A-8 (MFS_IDA)	N/A (410-90799-1)	343.15 g	315.8 mL				7/15/22	7_Days	4	
			27.33 g	1 mL							

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)



Batch Number: 410-279534

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:37:00AM

Method Code: 410-3535_28D-410

Batch End:

23	410-90799-A-9 (MFS_IDA)	N/A (410-90799-1)	278.73 g	251.4 mL			7/15/22	7_Days	4	 4 1 0 - 9 0 7 9 9 - A - 9 - A 1
			27.38 g	1 mL						
24	MB-410-279534/24 N/A	N/A	300 g	250 mL			N/A	N/A	N/A	Concentration Blank  M B 4 1 0 - 2 7 9 5 3 4 / 2 4 - A 1
			50 g	1 mL						

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279534

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:37:00AM

Method Code: 410-3535_28D-410

Batch End:

Batch Notes

pH Indicator ID

First Start time

First End time

SPE Cartridge Type

SPE Cartridge Lot ID 6679410-02

SPE Disk Type

Solid Phase Extraction Disk ID

Balance ID C125996498

Manifold ID 21, 8

Pipette/Syringe/Dispenser ID P10-9, PFAS 8

Na2SO4 ID

Solvent Name 0.3%NH4OH:MeOH

Solvent Lot # 4547707262233

Rinse Solvent Name

Rinse Solvent Lot

Acid Name

Acid ID

Analyst ID - Spike Analyst TB 30906

Analyst ID - Spike Witness Analyst EBG 20094

Methanol ID 220066

Milli-Q Reagent Water ID House A372

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279534

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:37:00AM

Method Code: 410-3535_28D-410

Batch End:

QC Bottle Lot ID 0222101G

Centrifuge Tube ID 20210406-058

Batch Comment

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279534

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:37:00AM

Method Code: 410-3535_28D-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-279534/1	PFC_SS_00013	0.100 mL	1 mL		
LCS 410-279534/2	PFC_IN_00718	0.100 mL	1 mL		
LCS 410-279534/2	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-1	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-1 MS	PFC_IN_00718	0.100 mL	1 mL		
410-90529-A-1 MS	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-1 MSD	PFC_IN_00718	0.100 mL	1 mL		
410-90529-A-1 MSD	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-2	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-3	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-4	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-5	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-6	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-7	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-8	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-9	PFC_SS_00013	0.100 mL	1 mL		
410-90529-A-10	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-1	PFC_SS_00013	0.100 mL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-279534

Analyst: Barnhart, Toby B

Batch Open: 7/26/2022 9:37:00AM

Method Code: 410-3535_28D-410

Batch End:

410-90799-A-2	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-3	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-4	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-5	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-6	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-7	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-8	PFC_SS_00013	0.100 mL	1 mL		
410-90799-A-9	PFC_SS_00013	0.100 mL	1 mL		
MB 410-279534/24	PFC_SS_00013	0.100 mL	1 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:
Int. std.	20 mL	PFC-15-11012-00370

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90529-1

SDG No.: _____

Batch Number: 283151 Batch Start Date: 08/05/22 08:53 Batch Analyst: Swan, Chris

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00010	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_MFS1 00009	PFC_STD_MFS2 00010	PFC_STD_MFS3 00008
IC 410-283151/1		MFS					200 uL		
IC 410-283151/2		MFS						200 uL	
IC 410-283151/3		MFS							200 uL
IC 410-283151/4		MFS							
ICISAV 410-283151/5		MFS							
IC 410-283151/6		MFS							
IC 410-283151/7		MFS							
ICB 410-283151/8		MFS			10 uL	50 uL			
ICV 410-283151/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00010	PFC_STD_MFS5 00008	PFC_STD_MFS6 00008	PFC_STD_MFS7 00008		
IC 410-283151/1		MFS							
IC 410-283151/2		MFS							
IC 410-283151/3		MFS							
IC 410-283151/4		MFS		200 uL					
ICISAV 410-283151/5		MFS			200 uL				
IC 410-283151/6		MFS				200 uL			
IC 410-283151/7		MFS					200 uL		
ICB 410-283151/8		MFS							
ICV 410-283151/9		MFS							

Batch Notes	
Mobil Phase ID	2886208022233B; 2996208022233D

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record



410-90529 Chain of Custody

Client Information	Sampler: <u>M/S/KO/MH/KC</u>	Lab PM: Zanar, Elizabeth M	Job No: 10-60385-13447.1
Client Contact: Mr. Glenn Esler	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	Page: <u>10 of 2</u>
Company: Integral Consulting Inc	PWSID:	State of Origin:	Job #:

Address: 319 SW Washington Ave Suite 1150	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Portland	TAT Requested (days): <u>10 Day Standard</u>		
State, Zip: OR, 97204	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Phone: 503-943-3617(Tel)	PO #: <u>3202/25002</u>		
Email: gesler@integral-corp.com	WO #:		
Project Name: MFS/BFS	Project #: 41008576		
Site: <u>West Deptford, NJ</u>	SSOW#:	Total Number of containers	Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Gas, Soil, BT=Tissue, A=Air)	Field Filtered Sample (or NO)	BFS_IDA, MFS_IDA	Special Instructions/Note:
MW-102D	7-7-22	1645	G	Water	X	X	
MW-102D-MS	↓	1650			X	X	
MW-102D-MSD	↓	1655			X	X	
MW-118S	7-8-22	1040					
MW-118D		1135					
MW-101S		1025					
MW-101D		1250					
MW-107S		1430					
MW-107D		1440					
MW-109S		1600					
MW-109D	↓	1550					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NJ DEP Full

Empty Kit Relinquished by: <u>[Signature]</u>	Date: <u>7-8-22</u>	Time: <u>16:30</u>	Method of Shipment:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>7-8-22/16:30</u>	Company: <u>Integral</u>	Received by: <u>[Signature]</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>7-8-22 1830</u>	Company: <u>E/KC</u>	Received by: <u>[Signature]</u>

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8

MP

Chain of Custody Record

Client Information			Sampler <i>MJ/KO/MH/CR</i>	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s)	COC No: 410-60385-13447.1																																																																																																																																																																								
Client Contact: Mr. Glenn Esler			Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin:	Page 2 of 2																																																																																																																																																																								
Company: Integral Consulting Inc			PWSID	Analysis Requested																																																																																																																																																																										
Address: 319 SW Washington Ave Suite 1150			Due Date Requested:	<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																																																																																																																																																										
City: Portland			TAT Requested (days): <i>10 - Day Standard</i>	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 R - Na2S2O3 F - MeOH S - H2SO4 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice V - MCAA J - DI Water W - pH 4-5 K - EDTA Y - Trizma L - EDA Z - other (specify)																																																																																																																																																																										
State, Zip: OR, 97204			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																																																																											
Phone: 503-943-3617(Tel)			PO #: <i>3202 / 2501.02A</i>																																																																																																																																																																											
Email: gesler@integral-corp.com			WO #:																																																																																																																																																																											
Project Name: MFS/BFS			Project #: 41008576																																																																																																																																																																											
Site: <i>W Jack Deptford, NJ</i>			SSOW#:																																																																																																																																																																											
Sample Identification			Matrix <small>(W=water, S=solid, O=water/oil, BT=Tissue, A=Air)</small>																																																																																																																																																																											
			BFS_IDA, MFS_IDA																																																																																																																																																																											
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Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																																																																																																																																											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																																																																																																											
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:																																																																																																																																																																											
Empty Kit Relinquished by			Date	Time	Method of Shipment:																																																																																																																																																																									
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Relinquished by: <i>[Signature]</i>			Date/Time: <i>7-8-22 1830</i>	Company: <i>ELI</i>	Received by: <i>[Signature]</i>	Date/Time: <i>7/8/22 1830</i> Company: <i>ELI</i>																																																																																																																																																																								
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Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>0.8</i>																																																																																																																																																																									

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 410-90529-1

Login Number: 90529

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

Job Number: 410-90799-1

Job Description: MFS/BFS

For:

Integral Consulting Inc
923 Haddonfield Road
Suite 300
Cherry Hill, NJ 08002
Attention: Erin Palko



Approved for release.
Elizabeth M Zanar
Project Manager
8/15/2022 2:36 PM

Elizabeth M Zanar, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7290
Elizabeth.Zanar@et.eurofinsus.com
08/15/2022

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-90799-1

Job Description: MFS/BFS

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Definitions/Glossary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-90799-1

Receipt

The samples were received on 7/12/2022 5:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.1°C and 3.0°C

LCMS

Method BFS_IDA: The recovery for target analyte BFS_A2B3 is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target BFS_A2B3 is not detected in the following samples: MW-43D (410-90799-11), MW-38D (410-90799-15) and MW-33S (410-90799-16), the data is reported.

Method BFS_IDA: The recovery for a target analyte(s) BFS_AB2 in the laboratory control spike samples associated with the following samples: MW-43D (410-90799-11), MW-38D (410-90799-15) and MW-33S (410-90799-16) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for a target analyte(s) in the laboratory control spike sample(s) is within the QC acceptance limits.

Method BFS_IDA: The recovery for a target analyte(s) BFS_AB2 in the laboratory control spike samples associated with the following samples: MW-43I (410-90799-10), MW-19D (410-90799-12), MW-19I (410-90799-13), MW-38D (410-90799-15) and MW-41D (410-90799-17) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for a target analyte(s) in the laboratory control spike sample(s) is within the QC acceptance limits.

Method BFS_IDA: The recovery for the labeled isotope(s) 13C3 HFPO-DA in the following sample: MW-38D (410-90799-15) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was within QC acceptance limits.

Method MFS_IDA: The injection standard peak areas are outside of the QC acceptance limits in both the initial injection and the re-injection of the following sample: MW-19I (410-90799-13). The values here are from the initial injection of the sample. The recovery for 13C3 HFPO-DA is outside of the QC acceptance limits in the following sample: MW-19I (410-90799-13) due to interference from sample matrix.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-124S

Lab Sample ID: 410-90799-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	1.5		1.1	0.32	ng/L	1		BFS	Total/NA
BFS_AB2	0.66		0.48	0.063	ng/L	1		BFS	Total/NA
BFS_AB3	1.6		1.2	0.32	ng/L	1		BFS	Total/NA
BFS_B3	1.5		0.55	0.24	ng/L	1		BFS	Total/NA
MFS_N2	25		0.79	0.16	ng/L	1		MFS	Total/NA

Client Sample ID: MW-124D

Lab Sample ID: 410-90799-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	1.6		0.94	0.19	ng/L	1		MFS	Total/NA

Client Sample ID: MW-111S

Lab Sample ID: 410-90799-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	240		1.2	0.33	ng/L	1		BFS	Total/NA
BFS_A2B3	1.3		0.90	0.33	ng/L	1		BFS	Total/NA
BFS_A3B	45		0.49	0.16	ng/L	1		BFS	Total/NA
BFS_A3B2	13		0.66	0.16	ng/L	1		BFS	Total/NA
BFS_A4B	15		0.33	0.16	ng/L	1		BFS	Total/NA
BFS_AB2	50		0.49	0.066	ng/L	1		BFS	Total/NA
BFS_AB3	130		1.2	0.33	ng/L	1		BFS	Total/NA
BFS_B3	130		0.58	0.25	ng/L	1		BFS	Total/NA
BFS_B4	5.5		0.90	0.33	ng/L	1		BFS	Total/NA
MFS_M3	28		0.91	0.18	ng/L	1		MFS	Total/NA
MFS_N3	11		0.91	0.18	ng/L	1		MFS	Total/NA
MFS_N2 - DL	1100		9.1	1.8	ng/L	10		MFS	Total/NA

Client Sample ID: MW-111D

Lab Sample ID: 410-90799-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	55		1.2	0.34	ng/L	1		BFS	Total/NA
BFS_A2B3	29		0.93	0.34	ng/L	1		BFS	Total/NA
BFS_A3B	4.2		0.51	0.17	ng/L	1		BFS	Total/NA
BFS_A3B2	18		0.68	0.17	ng/L	1		BFS	Total/NA
BFS_A4B	4.1		0.34	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	11		0.51	0.068	ng/L	1		BFS	Total/NA
BFS_AB3	170		1.3	0.34	ng/L	1		BFS	Total/NA
BFS_B3	37		0.59	0.25	ng/L	1		BFS	Total/NA
BFS_B4	80		0.93	0.34	ng/L	1		BFS	Total/NA
MFS_M3	1.9		0.87	0.17	ng/L	1		MFS	Total/NA
MFS_N2 - DL	240		8.7	1.7	ng/L	10		MFS	Total/NA

Client Sample ID: MW-110S

Lab Sample ID: 410-90799-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	35		1.2	0.33	ng/L	1		BFS	Total/NA
BFS_A2B3	8.4		0.92	0.33	ng/L	1		BFS	Total/NA
BFS_A3B	1.5		0.50	0.17	ng/L	1		BFS	Total/NA
BFS_A3B2	7.8		0.67	0.17	ng/L	1		BFS	Total/NA
BFS_A4B	2.3		0.33	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	4.6		0.50	0.067	ng/L	1		BFS	Total/NA
BFS_AB3	95		1.3	0.33	ng/L	1		BFS	Total/NA
BFS_B3	19		0.59	0.25	ng/L	1		BFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-110S (Continued)

Lab Sample ID: 410-90799-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_B4	45		0.92	0.33	ng/L	1		BFS	Total/NA
MFS_N2	84		0.89	0.18	ng/L	1		MFS	Total/NA

Client Sample ID: MW-110D

Lab Sample ID: 410-90799-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.50	J	1.3	0.36	ng/L	1		BFS	Total/NA
BFS_AB3	1.8		1.3	0.36	ng/L	1		BFS	Total/NA
BFS_B3	0.40	J	0.63	0.27	ng/L	1		BFS	Total/NA
BFS_B4	0.50	J	0.99	0.36	ng/L	1		BFS	Total/NA
MFS_N2	14		0.87	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-36D

Lab Sample ID: 410-90799-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.88	J	1.2	0.33	ng/L	1		BFS	Total/NA
BFS_A3B2	0.35	J	0.67	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	0.35	J	0.50	0.067	ng/L	1		BFS	Total/NA
BFS_AB3	2.4		1.2	0.33	ng/L	1		BFS	Total/NA
BFS_B3	0.65		0.58	0.25	ng/L	1		BFS	Total/NA
BFS_B4	1.2		0.91	0.33	ng/L	1		BFS	Total/NA
MFS_N2	52		0.86	0.17	ng/L	1		MFS	Total/NA
MFS_M3	10		0.86	0.17	ng/L	1		MFS	Total/NA
MFS_N3	25		0.86	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-42D

Lab Sample ID: 410-90799-8

No Detections.

Client Sample ID: EB_071122

Lab Sample ID: 410-90799-9

No Detections.

Client Sample ID: MW-43I

Lab Sample ID: 410-90799-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	50		1.2	0.33	ng/L	1		BFS	Total/NA
BFS_A2B3	9.1		0.92	0.33	ng/L	1		BFS	Total/NA
BFS_A3B	5.7		0.50	0.17	ng/L	1		BFS	Total/NA
BFS_A3B2	12		0.67	0.17	ng/L	1		BFS	Total/NA
BFS_A4B	3.9		0.33	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	15	*+ cn	0.50	0.067	ng/L	1		BFS	Total/NA
BFS_AB3	110		1.3	0.33	ng/L	1		BFS	Total/NA
BFS_B3	39		0.58	0.25	ng/L	1		BFS	Total/NA
BFS_B4	33		0.92	0.33	ng/L	1		BFS	Total/NA
MFS_M3	1.3		0.83	0.17	ng/L	1		MFS	Total/NA
MFS_N2 - DL	270		8.3	1.7	ng/L	10		MFS	Total/NA

Client Sample ID: MW-43D

Lab Sample ID: 410-90799-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	5.4		1.2	0.34	ng/L	1		BFS	Total/NA
BFS_A3B	0.41	J	0.50	0.17	ng/L	1		BFS	Total/NA
BFS_A3B2	0.96		0.67	0.17	ng/L	1		BFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-43D (Continued)

Lab Sample ID: 410-90799-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A4B	0.38		0.34	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	1.3	*+ cn	0.50	0.067	ng/L	1		BFS	Total/NA
BFS_AB3	11		1.3	0.34	ng/L	1		BFS	Total/NA
BFS_B3	4.0		0.59	0.25	ng/L	1		BFS	Total/NA
BFS_B4	2.8		0.92	0.34	ng/L	1		BFS	Total/NA
MFS_N2	40		0.84	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-19D

Lab Sample ID: 410-90799-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	2200		12	3.3	ng/L	10		BFS	Total/NA
BFS_A2B3	340		9.2	3.3	ng/L	10		BFS	Total/NA
BFS_A3B	300		5.0	1.7	ng/L	10		BFS	Total/NA
BFS_A3B2	500		6.7	1.7	ng/L	10		BFS	Total/NA
BFS_A4B	180		3.3	1.7	ng/L	10		BFS	Total/NA
BFS_AB2	640	*+ cn	5.0	0.67	ng/L	10		BFS	Total/NA
BFS_AB3	3800		12	3.3	ng/L	10		BFS	Total/NA
BFS_B3	1400		5.8	2.5	ng/L	10		BFS	Total/NA
BFS_B4	1300		9.2	3.3	ng/L	10		BFS	Total/NA
MFS_M3	240		8.5	1.7	ng/L	10		MFS	Total/NA
MFS_N3	18		8.5	1.7	ng/L	10		MFS	Total/NA
MFS_N2 - DL	12000		85	17	ng/L	100		MFS	Total/NA

Client Sample ID: MW-19I

Lab Sample ID: 410-90799-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	750		13	3.6	ng/L	10		BFS	Total/NA
BFS_A2B3	8.0	J	10	3.6	ng/L	10		BFS	Total/NA
BFS_A3B	83		5.4	1.8	ng/L	10		BFS	Total/NA
BFS_A3B2	41		7.3	1.8	ng/L	10		BFS	Total/NA
BFS_A4B	33		3.6	1.8	ng/L	10		BFS	Total/NA
BFS_AB2	340	*+ cn	5.4	0.73	ng/L	10		BFS	Total/NA
BFS_AB3	800		14	3.6	ng/L	10		BFS	Total/NA
BFS_B3	730		6.3	2.7	ng/L	10		BFS	Total/NA
BFS_B4	60		10	3.6	ng/L	10		BFS	Total/NA
MFS_M3	1.9		0.93	0.19	ng/L	1		MFS	Total/NA
MFS_N3	1.2		0.93	0.19	ng/L	1		MFS	Total/NA
MFS_N2 - DL	6300		93	19	ng/L	100		MFS	Total/NA

Client Sample ID: MW-19S

Lab Sample ID: 410-90799-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.38	J	1.2	0.33	ng/L	1		BFS	Total/NA
BFS_A3B	0.66		0.50	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	6.2	*+	0.50	0.066	ng/L	1		BFS	Total/NA
BFS_AB3	0.39	J	1.2	0.33	ng/L	1		BFS	Total/NA
BFS_B3	1.4		0.58	0.25	ng/L	1		BFS	Total/NA
BFS_B4	0.43	J	0.91	0.33	ng/L	1		BFS	Total/NA
MFS_N3	1.7		0.85	0.17	ng/L	1		MFS	Total/NA
MFS_N2 - DL	1400		8.5	1.7	ng/L	10		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-38D

Lab Sample ID: 410-90799-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	10		1.2	0.34	ng/L	1		BFS	Total/NA
BFS_A3B	0.72		0.51	0.17	ng/L	1		BFS	Total/NA
BFS_A3B2	0.41	J	0.68	0.17	ng/L	1		BFS	Total/NA
BFS_A4B	0.47		0.34	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	2.6	*+ cn	0.51	0.068	ng/L	1		BFS	Total/NA
BFS_AB3	11		1.3	0.34	ng/L	1		BFS	Total/NA
BFS_B3	6.9		0.60	0.26	ng/L	1		BFS	Total/NA
BFS_B4	0.50	J	0.94	0.34	ng/L	1		BFS	Total/NA
MFS_N2	63		0.78	0.16	ng/L	1		MFS	Total/NA

Client Sample ID: MW-33S

Lab Sample ID: 410-90799-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	2.4		1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	0.40	J	0.53	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	1.2	*+ cn	0.53	0.071	ng/L	1		BFS	Total/NA
BFS_AB3	2.2		1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	2.1		0.62	0.27	ng/L	1		BFS	Total/NA
MFS_N2	42		0.85	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-41D

Lab Sample ID: 410-90799-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	3.2		1.1	0.31	ng/L	1		BFS	Total/NA
BFS_A2B3	1.1		0.84	0.31	ng/L	1		BFS	Total/NA
BFS_A3B	0.25	J	0.46	0.15	ng/L	1		BFS	Total/NA
BFS_A3B2	1.0		0.61	0.15	ng/L	1		BFS	Total/NA
BFS_A4B	0.24	J	0.31	0.15	ng/L	1		BFS	Total/NA
BFS_AB2	0.72	*+ cn	0.46	0.061	ng/L	1		BFS	Total/NA
BFS_AB3	9.7		1.1	0.31	ng/L	1		BFS	Total/NA
BFS_B3	2.3		0.54	0.23	ng/L	1		BFS	Total/NA
BFS_B4	3.7		0.84	0.31	ng/L	1		BFS	Total/NA
MFS_N2	28		0.85	0.17	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-124S

Lab Sample ID: 410-90799-1

Date Collected: 07/11/22 10:20

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	1.5		1.1	0.32	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_A2B3	ND		0.87	0.32	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_A3B	ND		0.48	0.16	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_A3B2	ND		0.63	0.16	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_A4B	ND		0.32	0.16	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_AB2	0.66		0.48	0.063	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_AB3	1.6		1.2	0.32	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_B3	1.5		0.55	0.24	ng/L		07/27/22 10:12	08/09/22 06:33	1
BFS_B4	ND		0.87	0.32	ng/L		07/27/22 10:12	08/09/22 06:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	116		50 - 150				07/27/22 10:12	08/09/22 06:33	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	25		0.79	0.16	ng/L		07/26/22 09:37	08/05/22 20:31	1
MFS_M3	ND		0.79	0.16	ng/L		07/26/22 09:37	08/05/22 20:31	1
MFS_N3	ND		0.79	0.16	ng/L		07/26/22 09:37	08/05/22 20:31	1
MFS_M4	ND		0.79	0.39	ng/L		07/26/22 09:37	08/05/22 20:31	1
MFS_N4	ND		1.6	0.79	ng/L		07/26/22 09:37	08/05/22 20:31	1
MFS_N5	ND		2.4	1.6	ng/L		07/26/22 09:37	08/05/22 20:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	110		50 - 150				07/26/22 09:37	08/05/22 20:31	1

Client Sample ID: MW-124D

Lab Sample ID: 410-90799-2

Date Collected: 07/11/22 10:10

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.3	0.37	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_A2B3	ND		1.0	0.37	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_A3B	ND		0.56	0.19	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_A3B2	ND		0.74	0.19	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_A4B	ND		0.37	0.19	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_AB2	ND		0.56	0.074	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_AB3	ND		1.4	0.37	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_B3	ND		0.65	0.28	ng/L		07/27/22 10:12	08/09/22 06:46	1
BFS_B4	ND		1.0	0.37	ng/L		07/27/22 10:12	08/09/22 06:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 150				07/27/22 10:12	08/09/22 06:46	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1.6		0.94	0.19	ng/L		07/26/22 09:37	08/05/22 20:44	1
MFS_M3	ND		0.94	0.19	ng/L		07/26/22 09:37	08/05/22 20:44	1
MFS_N3	ND		0.94	0.19	ng/L		07/26/22 09:37	08/05/22 20:44	1
MFS_M4	ND		0.94	0.47	ng/L		07/26/22 09:37	08/05/22 20:44	1
MFS_N4	ND		1.9	0.94	ng/L		07/26/22 09:37	08/05/22 20:44	1
MFS_N5	ND		2.8	1.9	ng/L		07/26/22 09:37	08/05/22 20:44	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-124D

Lab Sample ID: 410-90799-2

Date Collected: 07/11/22 10:10

Matrix: Water

Date Received: 07/12/22 17:38

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 150	07/26/22 09:37	08/05/22 20:44	1

Client Sample ID: MW-111S

Lab Sample ID: 410-90799-3

Date Collected: 07/11/22 13:30

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	240		1.2	0.33	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_A2B3	1.3		0.90	0.33	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_A3B	45		0.49	0.16	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_A3B2	13		0.66	0.16	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_A4B	15		0.33	0.16	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_AB2	50		0.49	0.066	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_AB3	130		1.2	0.33	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_B3	130		0.58	0.25	ng/L		07/27/22 10:12	08/09/22 06:58	1
BFS_B4	5.5		0.90	0.33	ng/L		07/27/22 10:12	08/09/22 06:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	123		50 - 150	07/27/22 10:12	08/09/22 06:58	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	28		0.91	0.18	ng/L		07/26/22 09:37	08/05/22 20:56	1
MFS_N3	11		0.91	0.18	ng/L		07/26/22 09:37	08/05/22 20:56	1
MFS_M4	ND		0.91	0.46	ng/L		07/26/22 09:37	08/05/22 20:56	1
MFS_N4	ND		1.8	0.91	ng/L		07/26/22 09:37	08/05/22 20:56	1
MFS_N5	ND		2.7	1.8	ng/L		07/26/22 09:37	08/05/22 20:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		50 - 150	07/26/22 09:37	08/05/22 20:56	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1100		9.1	1.8	ng/L		07/26/22 09:37	08/11/22 01:43	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	107		50 - 150	07/26/22 09:37	08/11/22 01:43	10

Client Sample ID: MW-111D

Lab Sample ID: 410-90799-4

Date Collected: 07/11/22 14:10

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	55		1.2	0.34	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_A2B3	29		0.93	0.34	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_A3B	4.2		0.51	0.17	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_A3B2	18		0.68	0.17	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_A4B	4.1		0.34	0.17	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_AB2	11		0.51	0.068	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_AB3	170		1.3	0.34	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_B3	37		0.59	0.25	ng/L		07/27/22 10:12	08/09/22 07:11	1
BFS_B4	80		0.93	0.34	ng/L		07/27/22 10:12	08/09/22 07:11	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-111D

Lab Sample ID: 410-90799-4

Date Collected: 07/11/22 14:10

Matrix: Water

Date Received: 07/12/22 17:38

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 150	07/27/22 10:12	08/09/22 07:11	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	1.9		0.87	0.17	ng/L		07/26/22 09:37	08/05/22 21:09	1
MFS_N3	ND		0.87	0.17	ng/L		07/26/22 09:37	08/05/22 21:09	1
MFS_M4	ND		0.87	0.44	ng/L		07/26/22 09:37	08/05/22 21:09	1
MFS_N4	ND		1.7	0.87	ng/L		07/26/22 09:37	08/05/22 21:09	1
MFS_N5	ND		2.6	1.7	ng/L		07/26/22 09:37	08/05/22 21:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	121		50 - 150	07/26/22 09:37	08/05/22 21:09	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	240		8.7	1.7	ng/L		07/26/22 09:37	08/11/22 01:55	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	108		50 - 150	07/26/22 09:37	08/11/22 01:55	10

Client Sample ID: MW-110S

Lab Sample ID: 410-90799-5

Date Collected: 07/11/22 09:45

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	35		1.2	0.33	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_A2B3	8.4		0.92	0.33	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_A3B	1.5		0.50	0.17	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_A3B2	7.8		0.67	0.17	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_A4B	2.3		0.33	0.17	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_AB2	4.6		0.50	0.067	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_AB3	95		1.3	0.33	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_B3	19		0.59	0.25	ng/L		07/27/22 10:12	08/09/22 07:23	1
BFS_B4	45		0.92	0.33	ng/L		07/27/22 10:12	08/09/22 07:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	107		50 - 150	07/27/22 10:12	08/09/22 07:23	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	84		0.89	0.18	ng/L		07/26/22 09:37	08/05/22 21:21	1
MFS_M3	ND		0.89	0.18	ng/L		07/26/22 09:37	08/05/22 21:21	1
MFS_N3	ND		0.89	0.18	ng/L		07/26/22 09:37	08/05/22 21:21	1
MFS_M4	ND		0.89	0.44	ng/L		07/26/22 09:37	08/05/22 21:21	1
MFS_N4	ND		1.8	0.89	ng/L		07/26/22 09:37	08/05/22 21:21	1
MFS_N5	ND		2.7	1.8	ng/L		07/26/22 09:37	08/05/22 21:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	113		50 - 150	07/26/22 09:37	08/05/22 21:21	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-110D

Lab Sample ID: 410-90799-6

Date Collected: 07/11/22 10:28

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.50	J	1.3	0.36	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_A2B3	ND		0.99	0.36	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_A3B	ND		0.54	0.18	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_A3B2	ND		0.72	0.18	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_A4B	ND		0.36	0.18	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_AB2	ND		0.54	0.072	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_AB3	1.8		1.3	0.36	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_B3	0.40	J	0.63	0.27	ng/L		07/27/22 10:12	08/09/22 07:36	1
BFS_B4	0.50	J	0.99	0.36	ng/L		07/27/22 10:12	08/09/22 07:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 150				07/27/22 10:12	08/09/22 07:36	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	14		0.87	0.17	ng/L		07/26/22 09:37	08/05/22 21:34	1
MFS_M3	ND		0.87	0.17	ng/L		07/26/22 09:37	08/05/22 21:34	1
MFS_N3	ND		0.87	0.17	ng/L		07/26/22 09:37	08/05/22 21:34	1
MFS_M4	ND		0.87	0.44	ng/L		07/26/22 09:37	08/05/22 21:34	1
MFS_N4	ND		1.7	0.87	ng/L		07/26/22 09:37	08/05/22 21:34	1
MFS_N5	ND		2.6	1.7	ng/L		07/26/22 09:37	08/05/22 21:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		50 - 150				07/26/22 09:37	08/05/22 21:34	1

Client Sample ID: MW-36D

Lab Sample ID: 410-90799-7

Date Collected: 07/11/22 14:25

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.88	J	1.2	0.33	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_A2B3	ND		0.91	0.33	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_A3B	ND		0.50	0.17	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_A3B2	0.35	J	0.67	0.17	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_A4B	ND		0.33	0.17	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_AB2	0.35	J	0.50	0.067	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_AB3	2.4		1.2	0.33	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_B3	0.65		0.58	0.25	ng/L		07/27/22 10:12	08/09/22 07:49	1
BFS_B4	1.2		0.91	0.33	ng/L		07/27/22 10:12	08/09/22 07:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87		50 - 150				07/27/22 10:12	08/09/22 07:49	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	52		0.86	0.17	ng/L		07/26/22 09:37	08/05/22 21:46	1
MFS_M3	10		0.86	0.17	ng/L		07/26/22 09:37	08/05/22 21:46	1
MFS_N3	25		0.86	0.17	ng/L		07/26/22 09:37	08/05/22 21:46	1
MFS_M4	ND		0.86	0.43	ng/L		07/26/22 09:37	08/05/22 21:46	1
MFS_N4	ND		1.7	0.86	ng/L		07/26/22 09:37	08/05/22 21:46	1
MFS_N5	ND		2.6	1.7	ng/L		07/26/22 09:37	08/05/22 21:46	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-36D

Lab Sample ID: 410-90799-7

Date Collected: 07/11/22 14:25

Matrix: Water

Date Received: 07/12/22 17:38

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 150	07/26/22 09:37	08/05/22 21:46	1

Client Sample ID: MW-42D

Lab Sample ID: 410-90799-8

Date Collected: 07/11/22 16:15

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.2	0.35	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_A2B3	ND		0.97	0.35	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_A3B	ND		0.53	0.18	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_A3B2	ND		0.71	0.18	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_A4B	ND		0.35	0.18	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_AB2	ND		0.53	0.071	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_AB3	ND		1.3	0.35	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_B3	ND		0.62	0.27	ng/L		07/27/22 10:12	08/09/22 08:01	1
BFS_B4	ND		0.97	0.35	ng/L		07/27/22 10:12	08/09/22 08:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		50 - 150	07/27/22 10:12	08/09/22 08:01	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.79	0.16	ng/L		07/26/22 09:37	08/05/22 21:59	1
MFS_M3	ND		0.79	0.16	ng/L		07/26/22 09:37	08/05/22 21:59	1
MFS_N3	ND		0.79	0.16	ng/L		07/26/22 09:37	08/05/22 21:59	1
MFS_M4	ND		0.79	0.40	ng/L		07/26/22 09:37	08/05/22 21:59	1
MFS_N4	ND		1.6	0.79	ng/L		07/26/22 09:37	08/05/22 21:59	1
MFS_N5	ND		2.4	1.6	ng/L		07/26/22 09:37	08/05/22 21:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 150	07/26/22 09:37	08/05/22 21:59	1

Client Sample ID: EB_071122

Lab Sample ID: 410-90799-9

Date Collected: 07/11/22 13:45

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.3	0.36	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_A2B3	ND		0.99	0.36	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_A3B	ND		0.54	0.18	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_A3B2	ND		0.72	0.18	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_A4B	ND		0.36	0.18	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_AB2	ND		0.54	0.072	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_AB3	ND		1.3	0.36	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_B3	ND		0.63	0.27	ng/L		07/27/22 10:12	08/09/22 08:14	1
BFS_B4	ND		0.99	0.36	ng/L		07/27/22 10:12	08/09/22 08:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 150	07/27/22 10:12	08/09/22 08:14	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: EB_071122

Lab Sample ID: 410-90799-9

Date Collected: 07/11/22 13:45

Matrix: Water

Date Received: 07/12/22 17:38

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.99	0.20	ng/L		07/26/22 09:37	08/05/22 22:12	1
MFS_M3	ND		0.99	0.20	ng/L		07/26/22 09:37	08/05/22 22:12	1
MFS_N3	ND		0.99	0.20	ng/L		07/26/22 09:37	08/05/22 22:12	1
MFS_M4	ND		0.99	0.50	ng/L		07/26/22 09:37	08/05/22 22:12	1
MFS_N4	ND		2.0	0.99	ng/L		07/26/22 09:37	08/05/22 22:12	1
MFS_N5	ND		3.0	2.0	ng/L		07/26/22 09:37	08/05/22 22:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 150				07/26/22 09:37	08/05/22 22:12	1

Client Sample ID: MW-43I

Lab Sample ID: 410-90799-10

Date Collected: 07/12/22 09:25

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	50		1.2	0.33	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_A2B3	9.1		0.92	0.33	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_A3B	5.7		0.50	0.17	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_A3B2	12		0.67	0.17	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_A4B	3.9		0.33	0.17	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_AB2	15	*+ cn	0.50	0.067	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_AB3	110		1.3	0.33	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_B3	39		0.58	0.25	ng/L		07/27/22 10:06	08/10/22 03:42	1
BFS_B4	33		0.92	0.33	ng/L		07/27/22 10:06	08/10/22 03:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	107		50 - 150				07/27/22 10:06	08/10/22 03:42	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	1.3		0.83	0.17	ng/L		07/26/22 09:35	08/05/22 13:47	1
MFS_N3	ND		0.83	0.17	ng/L		07/26/22 09:35	08/05/22 13:47	1
MFS_M4	ND		0.83	0.42	ng/L		07/26/22 09:35	08/05/22 13:47	1
MFS_N4	ND		1.7	0.83	ng/L		07/26/22 09:35	08/05/22 13:47	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:35	08/05/22 13:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	117		50 - 150				07/26/22 09:35	08/05/22 13:47	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	270		8.3	1.7	ng/L		07/26/22 09:35	08/08/22 19:08	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	108		50 - 150				07/26/22 09:35	08/08/22 19:08	10

Client Sample ID: MW-43D

Lab Sample ID: 410-90799-11

Date Collected: 07/12/22 09:25

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	5.4		1.2	0.34	ng/L		07/27/22 10:06	08/09/22 09:42	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-43D

Lab Sample ID: 410-90799-11

Date Collected: 07/12/22 09:25

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B3	ND	cn	0.92	0.34	ng/L		07/27/22 10:06	08/09/22 09:42	1
BFS_A3B	0.41	J	0.50	0.17	ng/L		07/27/22 10:06	08/09/22 09:42	1
BFS_A3B2	0.96		0.67	0.17	ng/L		07/27/22 10:06	08/09/22 09:42	1
BFS_A4B	0.38		0.34	0.17	ng/L		07/27/22 10:06	08/09/22 09:42	1
BFS_AB2	1.3	*+ cn	0.50	0.067	ng/L		07/27/22 10:06	08/09/22 09:42	1
BFS_AB3	11		1.3	0.34	ng/L		07/27/22 10:06	08/09/22 09:42	1
BFS_B3	4.0		0.59	0.25	ng/L		07/27/22 10:06	08/09/22 09:42	1
BFS_B4	2.8		0.92	0.34	ng/L		07/27/22 10:06	08/09/22 09:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	112		50 - 150				07/27/22 10:06	08/09/22 09:42	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	40		0.84	0.17	ng/L		07/26/22 09:35	08/05/22 13:59	1
MFS_M3	ND		0.84	0.17	ng/L		07/26/22 09:35	08/05/22 13:59	1
MFS_N3	ND		0.84	0.17	ng/L		07/26/22 09:35	08/05/22 13:59	1
MFS_M4	ND		0.84	0.42	ng/L		07/26/22 09:35	08/05/22 13:59	1
MFS_N4	ND		1.7	0.84	ng/L		07/26/22 09:35	08/05/22 13:59	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:35	08/05/22 13:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		50 - 150				07/26/22 09:35	08/05/22 13:59	1

Client Sample ID: MW-19D

Lab Sample ID: 410-90799-12

Date Collected: 07/12/22 10:30

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	2200		12	3.3	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_A2B3	340		9.2	3.3	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_A3B	300		5.0	1.7	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_A3B2	500		6.7	1.7	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_A4B	180		3.3	1.7	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_AB2	640	*+ cn	5.0	0.67	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_AB3	3800		12	3.3	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_B3	1400		5.8	2.5	ng/L		07/27/22 10:06	08/10/22 04:07	10
BFS_B4	1300		9.2	3.3	ng/L		07/27/22 10:06	08/10/22 04:07	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	114		50 - 150				07/27/22 10:06	08/10/22 04:07	10

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	240		8.5	1.7	ng/L		07/26/22 09:35	08/08/22 19:21	10
MFS_N3	18		8.5	1.7	ng/L		07/26/22 09:35	08/08/22 19:21	10
MFS_M4	ND		8.5	4.2	ng/L		07/26/22 09:35	08/08/22 19:21	10
MFS_N4	ND		17	8.5	ng/L		07/26/22 09:35	08/08/22 19:21	10
MFS_N5	ND		25	17	ng/L		07/26/22 09:35	08/08/22 19:21	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	122		50 - 150				07/26/22 09:35	08/08/22 19:21	10

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-19D

Lab Sample ID: 410-90799-12

Date Collected: 07/12/22 10:30

Matrix: Water

Date Received: 07/12/22 17:38

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	12000		85	17	ng/L		07/26/22 09:35	08/08/22 19:34	100
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	92		50 - 150				07/26/22 09:35	08/08/22 19:34	100

Client Sample ID: MW-19I

Lab Sample ID: 410-90799-13

Date Collected: 07/12/22 11:10

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	750		13	3.6	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_A2B3	8.0	J	10	3.6	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_A3B	83		5.4	1.8	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_A3B2	41		7.3	1.8	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_A4B	33		3.6	1.8	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_AB2	340	*+ cn	5.4	0.73	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_AB3	800		14	3.6	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_B3	730		6.3	2.7	ng/L		07/27/22 10:06	08/10/22 04:45	10
BFS_B4	60		10	3.6	ng/L		07/27/22 10:06	08/10/22 04:45	10
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	127		50 - 150				07/27/22 10:06	08/10/22 04:45	10

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	1.9		0.93	0.19	ng/L		07/26/22 09:35	08/05/22 14:24	1
MFS_N3	1.2		0.93	0.19	ng/L		07/26/22 09:35	08/05/22 14:24	1
MFS_M4	ND		0.93	0.46	ng/L		07/26/22 09:35	08/05/22 14:24	1
MFS_N4	ND		1.9	0.93	ng/L		07/26/22 09:35	08/05/22 14:24	1
MFS_N5	ND		2.8	1.9	ng/L		07/26/22 09:35	08/05/22 14:24	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	202	*5+ cn	50 - 150				07/26/22 09:35	08/05/22 14:24	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	6300		93	19	ng/L		07/26/22 09:35	08/08/22 19:46	100
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	90	cn	50 - 150				07/26/22 09:35	08/08/22 19:46	100

Client Sample ID: MW-19S

Lab Sample ID: 410-90799-14

Date Collected: 07/12/22 12:40

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.38	J	1.2	0.33	ng/L		07/27/22 10:06	08/10/22 04:58	1
BFS_A2B3	ND		0.91	0.33	ng/L		07/27/22 10:06	08/10/22 04:58	1
BFS_A3B	0.66		0.50	0.17	ng/L		07/27/22 10:06	08/10/22 04:58	1
BFS_A3B2	ND		0.66	0.17	ng/L		07/27/22 10:06	08/10/22 04:58	1
BFS_A4B	ND		0.33	0.17	ng/L		07/27/22 10:06	08/10/22 04:58	1
BFS_AB2	6.2	*+	0.50	0.066	ng/L		07/27/22 10:06	08/10/22 04:58	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-19S

Lab Sample ID: 410-90799-14

Date Collected: 07/12/22 12:40

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_AB3	0.39	J	1.2	0.33	ng/L		07/27/22 10:06	08/10/22 04:58	1
BFS_B3	1.4		0.58	0.25	ng/L		07/27/22 10:06	08/10/22 04:58	1
BFS_B4	0.43	J	0.91	0.33	ng/L		07/27/22 10:06	08/10/22 04:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	107		50 - 150				07/27/22 10:06	08/10/22 04:58	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	ND		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 14:37	1
MFS_N3	1.7		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 14:37	1
MFS_M4	ND		0.85	0.42	ng/L		07/26/22 09:35	08/05/22 14:37	1
MFS_N4	ND		1.7	0.85	ng/L		07/26/22 09:35	08/05/22 14:37	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:35	08/05/22 14:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	112		50 - 150				07/26/22 09:35	08/05/22 14:37	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1400		8.5	1.7	ng/L		07/26/22 09:35	08/08/22 19:59	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 150				07/26/22 09:35	08/08/22 19:59	10

Client Sample ID: MW-38D

Lab Sample ID: 410-90799-15

Date Collected: 07/12/22 11:40

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	10		1.2	0.34	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_A2B3	ND	cn	0.94	0.34	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_A3B	0.72		0.51	0.17	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_A3B2	0.41	J	0.68	0.17	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_A4B	0.47		0.34	0.17	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_AB2	2.6	*+ cn	0.51	0.068	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_AB3	11		1.3	0.34	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_B3	6.9		0.60	0.26	ng/L		07/27/22 10:06	08/09/22 10:32	1
BFS_B4	0.50	J	0.94	0.34	ng/L		07/27/22 10:06	08/09/22 10:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	151	*5+ cn	50 - 150				07/27/22 10:06	08/09/22 10:32	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	63		0.78	0.16	ng/L		07/26/22 09:35	08/05/22 14:50	1
MFS_M3	ND		0.78	0.16	ng/L		07/26/22 09:35	08/05/22 14:50	1
MFS_N3	ND		0.78	0.16	ng/L		07/26/22 09:35	08/05/22 14:50	1
MFS_M4	ND		0.78	0.39	ng/L		07/26/22 09:35	08/05/22 14:50	1
MFS_N4	ND		1.6	0.78	ng/L		07/26/22 09:35	08/05/22 14:50	1
MFS_N5	ND		2.3	1.6	ng/L		07/26/22 09:35	08/05/22 14:50	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-38D

Lab Sample ID: 410-90799-15

Date Collected: 07/12/22 11:40

Matrix: Water

Date Received: 07/12/22 17:38

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	137		50 - 150	07/26/22 09:35	08/05/22 14:50	1

Client Sample ID: MW-33S

Lab Sample ID: 410-90799-16

Date Collected: 07/12/22 13:00

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	2.4		1.2	0.35	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_A2B3	ND	cn	0.98	0.35	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_A3B	0.40	J	0.53	0.18	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_A3B2	ND		0.71	0.18	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_A4B	ND		0.35	0.18	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_AB2	1.2	*+ cn	0.53	0.071	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_AB3	2.2		1.3	0.35	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_B3	2.1		0.62	0.27	ng/L		07/27/22 10:06	08/09/22 10:45	1
BFS_B4	ND		0.98	0.35	ng/L		07/27/22 10:06	08/09/22 10:45	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	114		50 - 150	07/27/22 10:06	08/09/22 10:45	1			

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	42		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 15:02	1
MFS_M3	ND		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 15:02	1
MFS_N3	ND		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 15:02	1
MFS_M4	ND		0.85	0.42	ng/L		07/26/22 09:35	08/05/22 15:02	1
MFS_N4	ND		1.7	0.85	ng/L		07/26/22 09:35	08/05/22 15:02	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:35	08/05/22 15:02	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	98		50 - 150	07/26/22 09:35	08/05/22 15:02	1			

Client Sample ID: MW-41D

Lab Sample ID: 410-90799-17

Date Collected: 07/12/22 14:35

Matrix: Water

Date Received: 07/12/22 17:38

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	3.2		1.1	0.31	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_A2B3	1.1		0.84	0.31	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_A3B	0.25	J	0.46	0.15	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_A3B2	1.0		0.61	0.15	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_A4B	0.24	J	0.31	0.15	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_AB2	0.72	*+ cn	0.46	0.061	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_AB3	9.7		1.1	0.31	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_B3	2.3		0.54	0.23	ng/L		07/27/22 10:06	08/10/22 05:23	1
BFS_B4	3.7		0.84	0.31	ng/L		07/27/22 10:06	08/10/22 05:23	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	109		50 - 150	07/27/22 10:06	08/10/22 05:23	1			

Client Sample Results

Client: Integral Consulting Inc
 Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-41D

Lab Sample ID: 410-90799-17

Date Collected: 07/12/22 14:35

Matrix: Water

Date Received: 07/12/22 17:38

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	28		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 15:15	1
MFS_M3	ND		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 15:15	1
MFS_N3	ND		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 15:15	1
MFS_M4	ND		0.85	0.43	ng/L		07/26/22 09:35	08/05/22 15:15	1
MFS_N4	ND		1.7	0.85	ng/L		07/26/22 09:35	08/05/22 15:15	1
MFS_N5	ND		2.6	1.7	ng/L		07/26/22 09:35	08/05/22 15:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>¹³C3 HFPO-DA</i>	120		50 - 150				07/26/22 09:35	08/05/22 15:15	1

Default Detection Limits

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
BFS_A2B2	1.4	0.40	ng/L
BFS_A2B3	1.1	0.40	ng/L
BFS_A3B	0.60	0.20	ng/L
BFS_A3B2	0.80	0.20	ng/L
BFS_A4B	0.40	0.20	ng/L
BFS_AB2	0.60	0.080	ng/L
BFS_AB3	1.5	0.40	ng/L
BFS_B3	0.70	0.30	ng/L
BFS_B4	1.1	0.40	ng/L

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
MFS_M3	1.0	0.20	ng/L
MFS_M4	1.0	0.50	ng/L
MFS_N2	1.0	0.20	ng/L
MFS_N3	1.0	0.20	ng/L
MFS_N4	2.0	1.0	ng/L
MFS_N5	3.0	2.0	ng/L

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-90799-1	MW-124S	116
410-90799-2	MW-124D	102
410-90799-3	MW-111S	123
410-90799-4	MW-111D	96
410-90799-5	MW-110S	107
410-90799-6	MW-110D	96
410-90799-7	MW-36D	87
410-90799-8	MW-42D	92
410-90799-9	EB_071122	94
410-90799-10	MW-43I	107
410-90799-11	MW-43D	112
410-90799-12	MW-19D	114
410-90799-13	MW-19I	127
410-90799-14	MW-19S	107
410-90799-15	MW-38D	151 *5+ cn
410-90799-16	MW-33S	114
410-90799-17	MW-41D	109
LCS 410-279976/2-A	Lab Control Sample	95
LCS 410-279981/2-A	Lab Control Sample	100
LCSD 410-279976/3-A	Lab Control Sample Dup	90
MB 410-279976/1-A	Method Blank	94
MB 410-279981/1-A	Method Blank	111

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-90799-1	MW-124S	110
410-90799-2	MW-124D	103
410-90799-3	MW-111S	106
410-90799-3 - DL	MW-111S	107
410-90799-4	MW-111D	121
410-90799-4 - DL	MW-111D	108
410-90799-5	MW-110S	113
410-90799-6	MW-110D	106
410-90799-7	MW-36D	93
410-90799-8	MW-42D	93
410-90799-9	EB_071122	102
410-90799-10	MW-43I	117
410-90799-10 - DL	MW-43I	108
410-90799-11	MW-43D	106
410-90799-12	MW-19D	122
410-90799-12 - DL	MW-19D	92
410-90799-13	MW-19I	202 *5+ cn

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-90799-13 - DL	MW-19I	90 cn
410-90799-14	MW-19S	112
410-90799-14 - DL	MW-19S	93
410-90799-15	MW-38D	137
410-90799-16	MW-33S	98
410-90799-17	MW-41D	120
LCS 410-279532/2-A	Lab Control Sample	89
LCS 410-279534/2-A	Lab Control Sample	105
MB 410-279532/1-A	Method Blank	85
MB 410-279534/1-A	Method Blank	101

Surrogate Legend

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-279976/1-A
Matrix: Water
Analysis Batch: 283897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279976

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A3B	ND		0.60	0.20	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A4B	ND		0.40	0.20	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_AB2	ND		0.60	0.080	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_AB3	ND		1.5	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_B3	ND		0.70	0.30	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_B4	ND		1.1	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
		MB	MB						
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C3 HFPO-DA	94		50 - 150			07/27/22 10:06	08/09/22 08:51	1	

Lab Sample ID: LCS 410-279976/2-A
Matrix: Water
Analysis Batch: 284260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
BFS_A2B2	250	284		ng/L		114	70 - 130		
BFS_A2B3	4.72	5.20		ng/L		110	70 - 130		
BFS_A3B	35.8	42.3		ng/L		118	70 - 130		
BFS_A3B2	47.2	53.1		ng/L		113	70 - 130		
BFS_A4B	19.8	21.6		ng/L		109	70 - 130		
BFS_AB2	32.1	45.2	*+	ng/L		141	70 - 130		
BFS_AB3	268	301		ng/L		113	70 - 130		
BFS_B3	114	129		ng/L		113	70 - 130		
BFS_B4	62.2	72.5		ng/L		117	70 - 130		
		LCS	LCS						
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	95		50 - 150						

Lab Sample ID: LCSD 410-279976/3-A
Matrix: Water
Analysis Batch: 284260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
BFS_A2B2	250	294		ng/L		118	70 - 130	4	30
BFS_A2B3	4.72	5.97		ng/L		127	70 - 130	14	30
BFS_A3B	35.8	44.8		ng/L		125	70 - 130	6	30
BFS_A3B2	47.2	57.1		ng/L		121	70 - 130	7	30
BFS_A4B	19.8	22.5		ng/L		114	70 - 130	4	30
BFS_AB2	32.1	48.5	*+	ng/L		151	70 - 130	7	30
BFS_AB3	268	324		ng/L		121	70 - 130	7	30
BFS_B3	114	134		ng/L		117	70 - 130	4	30
BFS_B4	62.2	78.6		ng/L		126	70 - 130	8	30
		LCSD	LCSD						
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	90		50 - 150						

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: MB 410-279981/1-A
Matrix: Water
Analysis Batch: 283897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279981

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A3B	ND		0.60	0.20	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_A4B	ND		0.40	0.20	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_AB2	ND		0.60	0.080	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_AB3	ND		1.5	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_B3	ND		0.70	0.30	ng/L		07/27/22 10:12	08/09/22 03:11	1
BFS_B4	ND		1.1	0.40	ng/L		07/27/22 10:12	08/09/22 03:11	1
		MB MB		Limits			Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier					07/27/22 10:12	08/09/22 03:11	1
13C3 HFPO-DA	111		50 - 150						

Lab Sample ID: LCS 410-279981/2-A
Matrix: Water
Analysis Batch: 283897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec	
									BFS_A2B2
BFS_A2B3	4.72	4.74		ng/L		100	70 - 130		
BFS_A3B	35.8	38.0		ng/L		106	70 - 130		
BFS_A3B2	47.2	50.1		ng/L		106	70 - 130		
BFS_A4B	19.8	18.9		ng/L		95	70 - 130		
BFS_AB2	32.1	36.0		ng/L		112	70 - 130		
BFS_AB3	268	266		ng/L		99	70 - 130		
BFS_B3	114	115		ng/L		101	70 - 130		
BFS_B4	62.2	62.2		ng/L		100	70 - 130		
		LCS LCS		Limits			Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier					07/27/22 10:12	08/09/22 03:11	1
13C3 HFPO-DA	100		50 - 150						

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-279532/1-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279532

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_M3	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N3	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_M4	ND		1.0	0.50	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N4	ND		2.0	1.0	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N5	ND		3.0	2.0	ng/L		07/26/22 09:35	08/05/22 12:31	1
		MB MB		Limits			Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier					07/26/22 09:35	08/05/22 12:31	1
13C3 HFPO-DA	85		50 - 150						

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: LCS 410-279532/2-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_N2	38.6	41.7		ng/L		108	70 - 130
MFS_M3	39.4	42.4		ng/L		108	70 - 130
MFS_N3	40.1	40.3		ng/L		101	70 - 130
MFS_M4	39.3	42.0		ng/L		107	70 - 130
MFS_N4	39.8	41.7		ng/L		105	70 - 130
MFS_N5	40.4	41.7		ng/L		103	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
¹³ C3 HFPO-DA	89		50 - 150

Lab Sample ID: MB 410-279534/1-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		1.0	0.20	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_M3	ND		1.0	0.20	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_N3	ND		1.0	0.20	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_M4	ND		1.0	0.50	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_N4	ND		2.0	1.0	ng/L		07/26/22 09:37	08/05/22 17:08	1
MFS_N5	ND		3.0	2.0	ng/L		07/26/22 09:37	08/05/22 17:08	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C3 HFPO-DA	101		50 - 150	07/26/22 09:37	08/05/22 17:08	1

Lab Sample ID: LCS 410-279534/2-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_N2	38.6	41.3		ng/L		107	70 - 130
MFS_M3	39.4	41.0		ng/L		104	70 - 130
MFS_N3	40.1	40.5		ng/L		101	70 - 130
MFS_M4	39.3	43.0		ng/L		110	70 - 130
MFS_N4	39.8	41.7		ng/L		105	70 - 130
MFS_N5	40.4	43.8		ng/L		108	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
¹³ C3 HFPO-DA	105		50 - 150

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

LCMS

Prep Batch: 279532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-10 - DL	MW-43I	Total/NA	Water	3535	
410-90799-10	MW-43I	Total/NA	Water	3535	
410-90799-11	MW-43D	Total/NA	Water	3535	
410-90799-12	MW-19D	Total/NA	Water	3535	
410-90799-12 - DL	MW-19D	Total/NA	Water	3535	
410-90799-13	MW-19I	Total/NA	Water	3535	
410-90799-13 - RA	MW-19I	Total/NA	Water	3535	
410-90799-13 - DL	MW-19I	Total/NA	Water	3535	
410-90799-14 - DL	MW-19S	Total/NA	Water	3535	
410-90799-14	MW-19S	Total/NA	Water	3535	
410-90799-15	MW-38D	Total/NA	Water	3535	
410-90799-16	MW-33S	Total/NA	Water	3535	
410-90799-17	MW-41D	Total/NA	Water	3535	
MB 410-279532/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279532/2-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 279534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-1	MW-124S	Total/NA	Water	3535	
410-90799-2	MW-124D	Total/NA	Water	3535	
410-90799-3 - DL	MW-111S	Total/NA	Water	3535	
410-90799-3	MW-111S	Total/NA	Water	3535	
410-90799-4	MW-111D	Total/NA	Water	3535	
410-90799-4 - DL	MW-111D	Total/NA	Water	3535	
410-90799-5	MW-110S	Total/NA	Water	3535	
410-90799-6	MW-110D	Total/NA	Water	3535	
410-90799-7	MW-36D	Total/NA	Water	3535	
410-90799-8	MW-42D	Total/NA	Water	3535	
410-90799-9	EB_071122	Total/NA	Water	3535	
MB 410-279534/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279534/2-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 279976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-10	MW-43I	Total/NA	Water	3535	
410-90799-11	MW-43D	Total/NA	Water	3535	
410-90799-12	MW-19D	Total/NA	Water	3535	
410-90799-13	MW-19I	Total/NA	Water	3535	
410-90799-14	MW-19S	Total/NA	Water	3535	
410-90799-15	MW-38D	Total/NA	Water	3535	
410-90799-16	MW-33S	Total/NA	Water	3535	
410-90799-17	MW-41D	Total/NA	Water	3535	
MB 410-279976/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279976/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 410-279976/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 279981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-1	MW-124S	Total/NA	Water	3535	
410-90799-2	MW-124D	Total/NA	Water	3535	
410-90799-3	MW-111S	Total/NA	Water	3535	

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

LCMS (Continued)

Prep Batch: 279981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-4	MW-111D	Total/NA	Water	3535	
410-90799-5	MW-110S	Total/NA	Water	3535	
410-90799-6	MW-110D	Total/NA	Water	3535	
410-90799-7	MW-36D	Total/NA	Water	3535	
410-90799-8	MW-42D	Total/NA	Water	3535	
410-90799-9	EB_071122	Total/NA	Water	3535	
MB 410-279981/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279981/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 283250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-1	MW-124S	Total/NA	Water	MFS	279534
410-90799-2	MW-124D	Total/NA	Water	MFS	279534
410-90799-3	MW-111S	Total/NA	Water	MFS	279534
410-90799-4	MW-111D	Total/NA	Water	MFS	279534
410-90799-5	MW-110S	Total/NA	Water	MFS	279534
410-90799-6	MW-110D	Total/NA	Water	MFS	279534
410-90799-7	MW-36D	Total/NA	Water	MFS	279534
410-90799-8	MW-42D	Total/NA	Water	MFS	279534
410-90799-9	EB_071122	Total/NA	Water	MFS	279534
410-90799-10	MW-43I	Total/NA	Water	MFS	279532
410-90799-11	MW-43D	Total/NA	Water	MFS	279532
410-90799-13	MW-19I	Total/NA	Water	MFS	279532
410-90799-14	MW-19S	Total/NA	Water	MFS	279532
410-90799-15	MW-38D	Total/NA	Water	MFS	279532
410-90799-16	MW-33S	Total/NA	Water	MFS	279532
410-90799-17	MW-41D	Total/NA	Water	MFS	279532
MB 410-279532/1-A	Method Blank	Total/NA	Water	MFS	279532
MB 410-279534/1-A	Method Blank	Total/NA	Water	MFS	279534
LCS 410-279532/2-A	Lab Control Sample	Total/NA	Water	MFS	279532
LCS 410-279534/2-A	Lab Control Sample	Total/NA	Water	MFS	279534

Analysis Batch: 283896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-10 - DL	MW-43I	Total/NA	Water	MFS	279532
410-90799-12	MW-19D	Total/NA	Water	MFS	279532
410-90799-12 - DL	MW-19D	Total/NA	Water	MFS	279532
410-90799-13 - DL	MW-19I	Total/NA	Water	MFS	279532
410-90799-14 - DL	MW-19S	Total/NA	Water	MFS	279532

Analysis Batch: 283897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-1	MW-124S	Total/NA	Water	BFS	279981
410-90799-2	MW-124D	Total/NA	Water	BFS	279981
410-90799-3	MW-111S	Total/NA	Water	BFS	279981
410-90799-4	MW-111D	Total/NA	Water	BFS	279981
410-90799-5	MW-110S	Total/NA	Water	BFS	279981
410-90799-6	MW-110D	Total/NA	Water	BFS	279981
410-90799-7	MW-36D	Total/NA	Water	BFS	279981
410-90799-8	MW-42D	Total/NA	Water	BFS	279981
410-90799-9	EB_071122	Total/NA	Water	BFS	279981

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

LCMS (Continued)

Analysis Batch: 283897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-11	MW-43D	Total/NA	Water	BFS	279976
410-90799-15	MW-38D	Total/NA	Water	BFS	279976
410-90799-16	MW-33S	Total/NA	Water	BFS	279976
MB 410-279976/1-A	Method Blank	Total/NA	Water	BFS	279976
MB 410-279981/1-A	Method Blank	Total/NA	Water	BFS	279981
LCS 410-279981/2-A	Lab Control Sample	Total/NA	Water	BFS	279981

Analysis Batch: 284258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-13 - RA	MW-19I	Total/NA	Water	MFS	279532

Analysis Batch: 284260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-10	MW-43I	Total/NA	Water	BFS	279976
410-90799-12	MW-19D	Total/NA	Water	BFS	279976
410-90799-13	MW-19I	Total/NA	Water	BFS	279976
410-90799-14	MW-19S	Total/NA	Water	BFS	279976
410-90799-17	MW-41D	Total/NA	Water	BFS	279976
LCS 410-279976/2-A	Lab Control Sample	Total/NA	Water	BFS	279976
LCSD 410-279976/3-A	Lab Control Sample Dup	Total/NA	Water	BFS	279976

Analysis Batch: 284700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-3 - DL	MW-111S	Total/NA	Water	MFS	279534
410-90799-4 - DL	MW-111D	Total/NA	Water	MFS	279534

Prep Batch: 285075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-10 - RE	MW-43I	Total/NA	Water	3535	
410-90799-11 - RE	MW-43D	Total/NA	Water	3535	
410-90799-12 - RE	MW-19D	Total/NA	Water	3535	
410-90799-13 - RE	MW-19I	Total/NA	Water	3535	
410-90799-14 - RE	MW-19S	Total/NA	Water	3535	
410-90799-15 - RE	MW-38D	Total/NA	Water	3535	
410-90799-16 - RE	MW-33S	Total/NA	Water	3535	
410-90799-17 - RE	MW-41D	Total/NA	Water	3535	
MB 410-285075/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-285075/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 410-285075/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 285708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-10 - RE	MW-43I	Total/NA	Water	BFS	285075
410-90799-11 - RE	MW-43D	Total/NA	Water	BFS	285075
410-90799-13 - RE	MW-19I	Total/NA	Water	BFS	285075
410-90799-14 - RE	MW-19S	Total/NA	Water	BFS	285075
410-90799-15 - RE	MW-38D	Total/NA	Water	BFS	285075
410-90799-16 - RE	MW-33S	Total/NA	Water	BFS	285075
410-90799-17 - RE	MW-41D	Total/NA	Water	BFS	285075
MB 410-285075/1-A	Method Blank	Total/NA	Water	BFS	285075
LCS 410-285075/2-A	Lab Control Sample	Total/NA	Water	BFS	285075

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

LCMS (Continued)

Analysis Batch: 285708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-285075/3-A	Lab Control Sample Dup	Total/NA	Water	BFS	285075

Analysis Batch: 285953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-90799-12 - RE	MW-19D	Total/NA	Water	BFS	285075

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-124S

Lab Sample ID: 410-90799-1

Date Collected: 07/11/22 10:20

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 06:33
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 20:31

Client Sample ID: MW-124D

Lab Sample ID: 410-90799-2

Date Collected: 07/11/22 10:10

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 06:46
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 20:44

Client Sample ID: MW-111S

Lab Sample ID: 410-90799-3

Date Collected: 07/11/22 13:30

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 06:58
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 20:56
Total/NA	Prep	3535	DL		279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS	DL	10	284700	JVK6	ELLE	08/11/22 01:43

Client Sample ID: MW-111D

Lab Sample ID: 410-90799-4

Date Collected: 07/11/22 14:10

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 07:11
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 21:09
Total/NA	Prep	3535	DL		279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS	DL	10	284700	JVK6	ELLE	08/11/22 01:55

Client Sample ID: MW-110S

Lab Sample ID: 410-90799-5

Date Collected: 07/11/22 09:45

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 07:23

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-110S

Lab Sample ID: 410-90799-5

Date Collected: 07/11/22 09:45

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 21:21

Client Sample ID: MW-110D

Lab Sample ID: 410-90799-6

Date Collected: 07/11/22 10:28

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 07:36
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 21:34

Client Sample ID: MW-36D

Lab Sample ID: 410-90799-7

Date Collected: 07/11/22 14:25

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 07:49
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 21:46

Client Sample ID: MW-42D

Lab Sample ID: 410-90799-8

Date Collected: 07/11/22 16:15

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 08:01
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 21:59

Client Sample ID: EB_071122

Lab Sample ID: 410-90799-9

Date Collected: 07/11/22 13:45

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279981	S7AC	ELLE	07/27/22 10:12
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 08:14
Total/NA	Prep	3535			279534	S7AC	ELLE	07/26/22 09:37
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 22:12

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-43I

Lab Sample ID: 410-90799-10

Date Collected: 07/12/22 09:25

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		1	284260	JVK6	ELLE	08/10/22 03:42
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	1	285708	JVK6	ELLE	08/14/22 06:35
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 13:47
Total/NA	Prep	3535	DL		279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS	DL	10	283896	JVK6	ELLE	08/08/22 19:08

Client Sample ID: MW-43D

Lab Sample ID: 410-90799-11

Date Collected: 07/12/22 09:25

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 09:42
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	1	285708	JVK6	ELLE	08/14/22 06:48
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 13:59

Client Sample ID: MW-19D

Lab Sample ID: 410-90799-12

Date Collected: 07/12/22 10:30

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		10	284260	JVK6	ELLE	08/10/22 04:07
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	10	285953	JVK6	ELLE	08/15/22 09:38
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		10	283896	JVK6	ELLE	08/08/22 19:21
Total/NA	Prep	3535	DL		279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS	DL	100	283896	JVK6	ELLE	08/08/22 19:34

Client Sample ID: MW-19I

Lab Sample ID: 410-90799-13

Date Collected: 07/12/22 11:10

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		10	284260	JVK6	ELLE	08/10/22 04:45
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	1	285708	JVK6	ELLE	08/14/22 07:13

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-19I

Lab Sample ID: 410-90799-13

Date Collected: 07/12/22 11:10

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 14:24
Total/NA	Prep	3535	DL		279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS	DL	100	283896	JVK6	ELLE	08/08/22 19:46
Total/NA	Prep	3535	RA		279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS	RA	1	284258	JVK6	ELLE	08/10/22 01:22

Client Sample ID: MW-19S

Lab Sample ID: 410-90799-14

Date Collected: 07/12/22 12:40

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		1	284260	JVK6	ELLE	08/10/22 04:58
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	1	285708	JVK6	ELLE	08/14/22 07:25
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 14:37
Total/NA	Prep	3535	DL		279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS	DL	10	283896	JVK6	ELLE	08/08/22 19:59

Client Sample ID: MW-38D

Lab Sample ID: 410-90799-15

Date Collected: 07/12/22 11:40

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 10:32
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	1	285708	JVK6	ELLE	08/14/22 07:38
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 14:50

Client Sample ID: MW-33S

Lab Sample ID: 410-90799-16

Date Collected: 07/12/22 13:00

Matrix: Water

Date Received: 07/12/22 17:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 10:45
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	1	285708	JVK6	ELLE	08/14/22 07:51
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 15:02

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Client Sample ID: MW-41D

Lab Sample ID: 410-90799-17

Date Collected: 07/12/22 14:35

Matrix: Water

Date Received: 07/12/22 17:38

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		1	284260	JVK6	ELLE	08/10/22 05:23
Total/NA	Prep	3535	RE		285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS	RE	1	285708	JVK6	ELLE	08/14/22 08:03
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 15:15

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
BFS	3535	Water	BFS_A2B2
BFS	3535	Water	BFS_A2B3
BFS	3535	Water	BFS_A3B
BFS	3535	Water	BFS_A3B2
BFS	3535	Water	BFS_A4B
BFS	3535	Water	BFS_AB2
BFS	3535	Water	BFS_AB3
BFS	3535	Water	BFS_B3
BFS	3535	Water	BFS_B4
MFS	3535	Water	MFS_M3
MFS	3535	Water	MFS_M4
MFS	3535	Water	MFS_N2
MFS	3535	Water	MFS_N3
MFS	3535	Water	MFS_N4
MFS	3535	Water	MFS_N5

Method Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Method	Method Description	Protocol	Laboratory
BFS	Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
MFS	Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

Client = Client derived Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-90799-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-90799-1	MW-124S	Water	07/11/22 10:20	07/12/22 17:38
410-90799-2	MW-124D	Water	07/11/22 10:10	07/12/22 17:38
410-90799-3	MW-111S	Water	07/11/22 13:30	07/12/22 17:38
410-90799-4	MW-111D	Water	07/11/22 14:10	07/12/22 17:38
410-90799-5	MW-110S	Water	07/11/22 09:45	07/12/22 17:38
410-90799-6	MW-110D	Water	07/11/22 10:28	07/12/22 17:38
410-90799-7	MW-36D	Water	07/11/22 14:25	07/12/22 17:38
410-90799-8	MW-42D	Water	07/11/22 16:15	07/12/22 17:38
410-90799-9	EB_071122	Water	07/11/22 13:45	07/12/22 17:38
410-90799-10	MW-43I	Water	07/12/22 09:25	07/12/22 17:38
410-90799-11	MW-43D	Water	07/12/22 09:25	07/12/22 17:38
410-90799-12	MW-19D	Water	07/12/22 10:30	07/12/22 17:38
410-90799-13	MW-19I	Water	07/12/22 11:10	07/12/22 17:38
410-90799-14	MW-19S	Water	07/12/22 12:40	07/12/22 17:38
410-90799-15	MW-38D	Water	07/12/22 11:40	07/12/22 17:38
410-90799-16	MW-33S	Water	07/12/22 13:00	07/12/22 17:38
410-90799-17	MW-41D	Water	07/12/22 14:35	07/12/22 17:38

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/1 Client Sample ID: _____

Date Analyzed: 08/09/22 00:03 Lab File ID: 22AUG08BFSCAL-03.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.97	Baseline	JVK6	08/09/22 07:38
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:39
BFS_B3	4.22	Baseline	JVK6	08/09/22 07:39
BFS_A2B2	4.32	Baseline	JVK6	08/09/22 07:39
BFS_A4B	4.41	Baseline	JVK6	08/09/22 07:39
BFS_A3B2	4.69	Baseline	JVK6	08/09/22 07:39
BFS_B4	4.82	Baseline	JVK6	08/09/22 07:40

Lab Sample ID: IC 410-283892/2 Client Sample ID: _____

Date Analyzed: 08/09/22 00:15 Lab File ID: 22AUG08BFSCAL-04.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A4B	4.40	Baseline	JVK6	08/09/22 07:40

Lab Sample ID: IC 410-283892/3 Client Sample ID: _____

Date Analyzed: 08/09/22 00:28 Lab File ID: 22AUG08BFSCAL-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:41
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:41
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:41
BFS_A2B3	4.94	Baseline	JVK6	08/09/22 07:41

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/4 Client Sample ID: _____

Date Analyzed: 08/09/22 00:40 Lab File ID: 22AUG08BFSCAL-06.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 07:41

Lab Sample ID: ICISAV 410-283892/5 Client Sample ID: _____

Date Analyzed: 08/09/22 00:53 Lab File ID: 22AUG08BFSCAL-07.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.21	Baseline	JVK6	08/09/22 07:37
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:37
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 07:36

Lab Sample ID: IC 410-283892/6 Client Sample ID: _____

Date Analyzed: 08/09/22 01:06 Lab File ID: 22AUG08BFSCAL-08.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:42

Lab Sample ID: IC 410-283892/7 Client Sample ID: _____

Date Analyzed: 08/09/22 01:18 Lab File ID: 22AUG08BFSCAL-09.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	08/09/22 07:42
BFS_A3B	4.03	Baseline	JVK6	08/09/22 07:42
BFS_B3	4.19	Baseline	JVK6	08/09/22 07:42
BFS_A2B2	4.30	Baseline	JVK6	08/09/22 07:42
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:42

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/8 Client Sample ID: _____

Date Analyzed: 08/09/22 01:31 Lab File ID: 22AUG08BFSCAL-10.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:43
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:43

Lab Sample ID: IC 410-283892/9 Client Sample ID: _____

Date Analyzed: 08/09/22 01:43 Lab File ID: 22AUG08BFSCAL-11.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:43
BFS_A3B	4.03	Baseline	JVK6	08/09/22 07:43
BFS_B3	4.19	Baseline	JVK6	08/09/22 07:43
BFS_A2B2	4.30	Baseline	JVK6	08/09/22 07:43
BFS_A4B	4.39	Baseline	JVK6	08/09/22 07:43
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:43

Lab Sample ID: IC 410-283892/10 Client Sample ID: _____

Date Analyzed: 08/09/22 01:56 Lab File ID: 22AUG08BFSCAL-12.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:44
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:44
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:44
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: ICV 410-283892/12 Client Sample ID: _____

Date Analyzed: 08/09/22 02:21 Lab File ID: 22AUG08BFSCAL-14.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:45
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:45
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:44
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:44
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283897

Lab Sample ID: CCVL 410-283897/1 Client Sample ID: _____

Date Analyzed: 08/09/22 02:46 Lab File ID: 22AUG05BFS-01.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 08:18
BFS_A3B	4.04	Baseline	JVK6	08/09/22 08:18
BFS_A4B	4.39	Baseline	JVK6	08/09/22 08:18
BFS_B4	4.79	Baseline	JVK6	08/09/22 08:18

Lab Sample ID: CCV 410-283897/2 Client Sample ID: _____

Date Analyzed: 08/09/22 02:59 Lab File ID: 22AUG05BFS-02.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 08:18
BFS_A3B	4.04	Baseline	JVK6	08/09/22 08:18
BFS_B3	4.20	Baseline	JVK6	08/09/22 08:18
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 08:18
BFS_AB3	4.57	Baseline	JVK6	08/09/22 08:19
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 08:46

Lab Sample ID: LCS 410-279981/2-A Client Sample ID: _____

Date Analyzed: 08/09/22 03:24 Lab File ID: 22AUG05BFS-04.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C2 PFOA	5.00	Peak assignment corrected	JVK6	08/09/22 10:14

Lab Sample ID: CCV 410-283897/15 Client Sample ID: _____

Date Analyzed: 08/09/22 05:43 Lab File ID: 22AUG05BFS-15.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	08/09/22 08:46

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283897

Lab Sample ID: CCV 410-283897/18 Client Sample ID: _____

Date Analyzed: 08/09/22 06:20 Lab File ID: 22AUG05BFS-18.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	08/09/22 08:47
BFS_A3B	4.03	Baseline	JVK6	08/09/22 08:47
BFS_A2B3	4.90	Baseline	JVK6	08/09/22 08:47

Lab Sample ID: 410-90799-3 Client Sample ID: MW-111S

Date Analyzed: 08/09/22 06:58 Lab File ID: 22AUG05BFS-21.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 10:19

Lab Sample ID: 410-90799-6 Client Sample ID: MW-110D

Date Analyzed: 08/09/22 07:36 Lab File ID: 22AUG05BFS-24.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B4	4.79	Baseline	JVK6	08/09/22 10:21

Lab Sample ID: 410-90799-7 Client Sample ID: MW-36D

Date Analyzed: 08/09/22 07:49 Lab File ID: 22AUG05BFS-25.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	08/09/22 10:21

Lab Sample ID: CCV 410-283897/29 Client Sample ID: _____

Date Analyzed: 08/09/22 08:39 Lab File ID: 22AUG05BFS-29.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	08/09/22 10:10

BFS

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283897

Lab Sample ID: CCV 410-283897/41 Client Sample ID: _____

Date Analyzed: 08/09/22 11:10 Lab File ID: 22AUG05BFS-41.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 12:33

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 284260

Lab Sample ID: CCVL 410-284260/1 Client Sample ID: _____

Date Analyzed: 08/10/22 02:25 Lab File ID: 22AUG09BFS-01.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.97	Baseline	JVK6	08/10/22 11:06
BFS_A3B	4.05	Baseline	JVK6	08/10/22 11:06
BFS_B3	4.20	Baseline	JVK6	08/10/22 11:06
BFS_A4B	4.40	Baseline	JVK6	08/10/22 11:06

Lab Sample ID: CCV 410-284260/4 Client Sample ID: _____

Date Analyzed: 08/10/22 03:04 Lab File ID: 22AUG09BFS-04.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	08/10/22 11:07

Lab Sample ID: LCS 410-279976/2-A Client Sample ID: _____

Date Analyzed: 08/10/22 03:17 Lab File ID: 22AUG09BFS-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/10/22 12:31

Lab Sample ID: 410-90799-13 Client Sample ID: MW-19I

Date Analyzed: 08/10/22 04:45 Lab File ID: 22AUG09BFS-12.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Assign Peak	UJB7	08/15/22 12:47

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 284260

Lab Sample ID: 410-90799-14 Client Sample ID: MW-19S

Date Analyzed: 08/10/22 04:58 Lab File ID: 22AUG09BFS-13.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A4B	4.39	Assign Peak	UJB7	08/15/22 12:49
BFS_A3B2	4.66	Assign Peak	UJB7	08/15/22 12:49

Lab Sample ID: 410-90799-17 Client Sample ID: MW-41D

Date Analyzed: 08/10/22 05:23 Lab File ID: 22AUG09BFS-15.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A4B	4.39	Peak assignment corrected	UJB7	08/15/22 12:50
BFS_A2B3	4.91	Baseline	JVK6	08/10/22 12:33

Lab Sample ID: CCV 410-284260/16 Client Sample ID: _____

Date Analyzed: 08/10/22 05:35 Lab File ID: 22AUG09BFS-16.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/10/22 11:07

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285706

Lab Sample ID: IC 410-285706/1 Client Sample ID: _____

Date Analyzed: 08/14/22 02:34 Lab File ID: 22AUG13BFS-01.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.94	Baseline	JVK6	08/15/22 07:23
BFS_A3B	4.02	Baseline	JVK6	08/15/22 07:24
BFS_B3	4.16	Baseline	JVK6	08/15/22 07:24
BFS_A3B2	4.64	Baseline	JVK6	08/15/22 07:23

Lab Sample ID: IC 410-285706/2 Client Sample ID: _____

Date Analyzed: 08/14/22 02:48 Lab File ID: 22AUG13BFS-02.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B2	4.27	Baseline	JVK6	08/15/22 07:24

Lab Sample ID: IC 410-285706/3 Client Sample ID: _____

Date Analyzed: 08/14/22 03:01 Lab File ID: 22AUG13BFS-03.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A4B	4.36	Baseline	JVK6	08/15/22 07:25
BFS_A2B3	4.86	Baseline	JVK6	08/15/22 07:25

Lab Sample ID: IC 410-285706/4 Client Sample ID: _____

Date Analyzed: 08/14/22 03:13 Lab File ID: 22AUG13BFS-04.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.86	Baseline	JVK6	08/15/22 07:25

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285706

Lab Sample ID: ICISAV 410-285706/5 Client Sample ID: _____

Date Analyzed: 08/14/22 03:26 Lab File ID: 22AUG13BFS-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.86	Baseline	JVK6	08/15/22 07:25

Lab Sample ID: IC 410-285706/6 Client Sample ID: _____

Date Analyzed: 08/14/22 03:39 Lab File ID: 22AUG13BFS-06.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	08/15/22 07:26

Lab Sample ID: IC 410-285706/7 Client Sample ID: _____

Date Analyzed: 08/14/22 03:51 Lab File ID: 22AUG13BFS-07.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:26

Lab Sample ID: ICV 410-285706/12 Client Sample ID: _____

Date Analyzed: 08/14/22 04:54 Lab File ID: 22AUG13BFS-12.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:27

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285708

Lab Sample ID: CCVL 410-285708/1 Client Sample ID: _____

Date Analyzed: 08/14/22 05:32 Lab File ID: 22AUG13BFS-15.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.92	Baseline	JVK6	08/15/22 07:34
BFS_A3B	4.00	Baseline	JVK6	08/15/22 07:34
BFS_B3	4.15	Baseline	JVK6	08/15/22 07:34
BFS_A2B2	4.26	Baseline	JVK6	08/15/22 07:34
BFS_A4B	4.35	Baseline	JVK6	08/15/22 07:34
BFS_AB3	4.52	Baseline	JVK6	08/15/22 07:34
BFS_A3B2	4.62	Baseline	JVK6	08/15/22 07:34

Lab Sample ID: CCV 410-285708/2 Client Sample ID: _____

Date Analyzed: 08/14/22 05:45 Lab File ID: 22AUG13BFS-16.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:35

Lab Sample ID: LCS 410-285075/2-A Client Sample ID: _____

Date Analyzed: 08/14/22 06:10 Lab File ID: 22AUG13BFS-18.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:37
13C2 PFOA	4.96	Peak assignment corrected	JVK6	08/15/22 07:37

Lab Sample ID: LCSD 410-285075/3-A Client Sample ID: _____

Date Analyzed: 08/14/22 06:22 Lab File ID: 22AUG13BFS-19.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:38
13C2 PFOA	4.96	Peak assignment corrected	JVK6	08/15/22 07:37

BFS

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285708

Lab Sample ID: 410-90799-11 RE Client Sample ID: MW-43D RE

Date Analyzed: 08/14/22 06:48 Lab File ID: 22AUG13BFS-21.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	08/15/22 07:38

Lab Sample ID: 410-90799-13 RE Client Sample ID: MW-19I RE

Date Analyzed: 08/14/22 07:13 Lab File ID: 22AUG13BFS-23.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:39

Lab Sample ID: 410-90799-14 RE Client Sample ID: MW-19S RE

Date Analyzed: 08/14/22 07:25 Lab File ID: 22AUG13BFS-24.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB3		Baseline	JVK6	08/15/22 07:39
BFS_B4		Baseline	JVK6	08/15/22 07:40

Lab Sample ID: 410-90799-15 RE Client Sample ID: MW-38D RE

Date Analyzed: 08/14/22 07:38 Lab File ID: 22AUG13BFS-25.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B4	4.76	Baseline	JVK6	08/15/22 07:40

Lab Sample ID: 410-90799-16 RE Client Sample ID: MW-33S RE

Date Analyzed: 08/14/22 07:51 Lab File ID: 22AUG13BFS-26.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB3		Baseline	JVK6	08/15/22 07:40

BFS

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285708

Lab Sample ID: 410-90799-17 RE Client Sample ID: MW-41D RE

Date Analyzed: 08/14/22 08:03 Lab File ID: 22AUG13BFS-27.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:40

Lab Sample ID: CCV 410-285708/16 Client Sample ID: _____

Date Analyzed: 08/14/22 08:41 Lab File ID: 22AUG13BFS-30.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	08/15/22 07:35

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285953

Lab Sample ID: CCVL 410-285953/1 Client Sample ID: _____

Date Analyzed: 08/15/22 09:11 Lab File ID: 22AUG15BFS-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.94	Baseline	JVK6	08/15/22 11:29
BFS_A3B	4.02	Baseline	JVK6	08/15/22 11:29
BFS_B3	4.18	Baseline	JVK6	08/15/22 11:29
BFS_B4	4.78	Baseline	JVK6	08/15/22 11:29

Lab Sample ID: CCV 410-285953/2 Client Sample ID: _____

Date Analyzed: 08/15/22 09:25 Lab File ID: 22AUG15BFS-06.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	08/15/22 11:29

Lab Sample ID: CCV 410-285953/5 Client Sample ID: _____

Date Analyzed: 08/15/22 10:03 Lab File ID: 22AUG15BFS-09.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.89	Baseline	JVK6	08/15/22 11:30

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283250

Lab Sample ID: CCV 410-283250/7 Client Sample ID: _____

Date Analyzed: 08/05/22 13:34 Lab File ID: 22AUG5MFS-07.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_M3	5.86	Baseline	DCS9	08/06/22 11:01

Lab Sample ID: CCVL 410-283250/23 Client Sample ID: _____

Date Analyzed: 08/05/22 16:56 Lab File ID: 22AUG5MFS-23.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_N2	5.25	Baseline	DCS9	08/06/22 11:02

Lab Sample ID: 410-90799-5 Client Sample ID: MW-110S

Date Analyzed: 08/05/22 21:21 Lab File ID: 22AUG5MFS-44.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_M3	5.82	Baseline	DCS9	08/06/22 11:19

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283896

Lab Sample ID: 410-90799-12 DL Client Sample ID: MW-19D DL

Date Analyzed: 08/08/22 19:34 Lab File ID: 22AUG08MFS-06.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.38	Baseline	JVK6	08/09/22 09:41

Lab Sample ID: 410-90799-13 DL Client Sample ID: MW-19I DL

Date Analyzed: 08/08/22 19:46 Lab File ID: 22AUG08MFS-07.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.39	Baseline	JVK6	08/09/22 09:40

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 284258

Lab Sample ID: 410-90799-13 Client Sample ID: _____

Date Analyzed: 08/10/22 01:22 Lab File ID: 22AUG09MFS-02.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C2 PFOA	5.00	Baseline	JVK6	08/10/22 10:47

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL	
							BFS_A2B3	0.654875 ng/mL	
							BFS_A3B	4.97698 ng/mL	
							BFS_A3B2	6.54868 ng/mL	
							BFS_A4B	2.75045 ng/mL	
							BFS_AB2	4.4531 ng/mL	
							BFS_AB3	37.1964 ng/mL	
							BFS_B3	15.8478 ng/mL	
							BFS_B4	8.64425 ng/mL	
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
								BFS_A2B3	26195 ng/mL
								BFS_A3B	199079 ng/mL
								BFS_A3B2	261947 ng/mL
								BFS_A4B	110018 ng/mL
								BFS_AB2	178124 ng/mL
								BFS_AB3	1487860 ng/mL
								BFS_B3	633911 ng/mL
								BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_ST_01249	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01249	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL	
							MFS_M3	0.984766 ng/mL	
							MFS_N3	1.00129 ng/mL	
							MFS_M4	0.981629 ng/mL	
							MFS_N4	0.995152 ng/mL	
							MFS_N5	1.00979 ng/mL	
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS_N2	96.3932 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
.PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
..PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS_M4	49081.4 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
...PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
...PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
...PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
...PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
...PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
...PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
PFC_IN_BFS_00016	08/14/22	03/29/22	Methanol, Lot 2732102212233A	10 mL	PFC_IN_BFS_00011	1 mL	BFS A2B2	1388.32 ng/mL
							BFS A2B3	26.195 ng/mL
							BFS A3B	199.079 ng/mL
							BFS A3B2	261.947 ng/mL
							BFS A4B	110.018 ng/mL
							BFS AB2	178.124 ng/mL
							BFS AB3	1487.86 ng/mL
							BFS B3	633.911 ng/mL
							BFS B4	345.77 ng/mL
.PFC_IN_BFS_00011	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IS_MOD_00364	08/22/22	07/22/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01680	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PFC IS MOD 00371	10/03/22	08/03/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01726	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC IS MOD 00374	10/05/22	08/08/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01726	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC IS MOD 00377	09/11/22	08/11/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01726	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC SS 00012	09/27/22	07/05/22	Methanol, Lot 220054	10 mL	PFC_INT_00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC SS 00013	09/25/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_INT_00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC SS 00014	10/01/22	08/01/22	Methanol, Lot ED531-US	10 mL	PFC_INT_00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_STD_BFS1_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.025 mL	BFS_A2B2	0.347079 ng/mL
							BFS_A2B3	0.00654875 ng/mL
							BFS_A3B	0.0497698 ng/mL
							BFS_A3B2	0.0654867 ng/mL
							BFS_A4B	0.0275045 ng/mL
							BFS_AB2	0.044531 ng/mL
							BFS_AB3	0.371964 ng/mL
							BFS_B3	0.158478 ng/mL
							BFS_B4	0.0864425 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS10_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.5 mL	BFS A2B2	694.159 ng/mL
							BFS A2B3	13.0975 ng/mL
							BFS A3B	99.5395 ng/mL
							BFS A3B2	130.974 ng/mL
							BFS A4B	55.009 ng/mL
							BFS AB2	89.062 ng/mL
							BFS AB3	743.928 ng/mL
							BFS B3	316.955 ng/mL
							BFS B4	172.885 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS2_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.075 mL	BFS A2B2	1.04124 ng/mL
							BFS_A2B3	0.0196463 ng/mL
							BFS_A3B	0.149309 ng/mL
							BFS A3B2	0.19646 ng/mL
							BFS_A4B	0.0825135 ng/mL
							BFS_AB2	0.133593 ng/mL
							BFS AB3	1.11589 ng/mL
							BFS_B3	0.475433 ng/mL
							BFS_B4	0.259327 ng/mL
					PFC_INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS3_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.2 mL	BFS A2B2	2.77663 ng/mL
							BFS A2B3	0.05239 ng/mL
							BFS_A3B	0.398158 ng/mL
							BFS_A3B2	0.523894 ng/mL
							BFS_A4B	0.220036 ng/mL
							BFS_AB2	0.356248 ng/mL
							BFS AB3	2.97571 ng/mL
							BFS B3	1.26782 ng/mL
							BFS B4	0.69154 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS4_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.5 mL	BFS A2B2	6.94158 ng/mL
							BFS A2B3	0.130975 ng/mL
							BFS A3B	0.995395 ng/mL
							BFS A3B2	1.30974 ng/mL
							BFS A4B	0.55009 ng/mL
							BFS AB2	0.89062 ng/mL
							BFS AB3	7.43928 ng/mL
							BFS B3	3.16955 ng/mL
							BFS B4	1.72885 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC_INT__00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS5_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	1 mL	BFS A2B2	13.8832 ng/mL
							BFS A2B3	0.26195 ng/mL
							BFS A3B	1.99079 ng/mL
							BFS A3B2	2.61947 ng/mL
							BFS A4B	1.10018 ng/mL
							BFS AB2	1.78124 ng/mL
							BFS AB3	14.8786 ng/mL
							BFS B3	6.33911 ng/mL
							BFS B4	3.4577 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS6_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A2B3	0.654875 ng/mL
							BFS_A3B	4.97698 ng/mL
							BFS_A3B2	6.54868 ng/mL
							BFS_A4B	2.75045 ng/mL
							BFS_AB2	4.4531 ng/mL
							BFS_AB3	37.1964 ng/mL
							BFS_B3	15.8478 ng/mL
							BFS_B4	8.64425 ng/mL
							PFC INT 00012	0.1 mL
PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
BFS_B4	345770 ng/mL							
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS7_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.05 mL	BFS_A2B2	69.4159 ng/mL
							BFS_A2B3	1.30975 ng/mL
							BFS_A3B	9.95395 ng/mL
							BFS_A3B2	13.0974 ng/mL
							BFS_A4B	5.5009 ng/mL
							BFS_AB2	8.9062 ng/mL
							BFS_AB3	74.3928 ng/mL
							BFS_B3	31.6956 ng/mL
							BFS_B4	17.2885 ng/mL
PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL					
PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS8_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS9_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.2 mL	BFS A2B2	277.663 ng/mL
							BFS A2B3	5.239 ng/mL
							BFS A3B	39.8158 ng/mL
							BFS A3B2	52.3894 ng/mL
							BFS A4B	22.0036 ng/mL
							BFS AB2	35.6248 ng/mL
							BFS AB3	297.571 ng/mL
							BFS B3	126.782 ng/mL
							BFS B4	69.154 ng/mL
				PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
				(Purchased Reagent)		BFS A2B3	26195 ng/mL	
				(Purchased Reagent)		BFS A3B	199079 ng/mL	
				(Purchased Reagent)		BFS A3B2	261947 ng/mL	
				(Purchased Reagent)		BFS A4B	110018 ng/mL	
				(Purchased Reagent)		BFS AB2	178124 ng/mL	
				(Purchased Reagent)		BFS AB3	1487860 ng/mL	
				(Purchased Reagent)		BFS B3	633911 ng/mL	
				(Purchased Reagent)		BFS B4	345770 ng/mL	
..PFC_ST_BFS_00003	02/14/23	Solvay, Lot BFS 1206SI					BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS1_00009	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.025 mL	MFS_N2	0.240983 ng/mL
							MFS_M3	0.246191 ng/mL
							MFS_N3	0.250322 ng/mL
							MFS_M4	0.245407 ng/mL
							MFS_N4	0.248788 ng/mL
							MFS_N5	0.252449 ng/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
.PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
.PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
.PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
.PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
.PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
.PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
.PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
.PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS2_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.05 mL	MFS_N2	0.481966 ng/mL
							MFS_M3	0.492383 ng/mL
							MFS_N3	0.500644 ng/mL
							MFS_M4	0.490814 ng/mL
							MFS_N4	0.497576 ng/mL
							MFS_N5	0.504897 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
					PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS3_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL
							MFS_M3	0.984766 ng/mL
							MFS_N3	1.00129 ng/mL
							MFS_M4	0.981629 ng/mL
							MFS_N4	0.995152 ng/mL
							MFS_N5	1.00979 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
					PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS_M3	98.4766 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS4_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.5 mL	MFS N2	4.81966 ng/mL
							MFS M3	4.92383 ng/mL
							MFS N3	5.00644 ng/mL
							MFS M4	4.90814 ng/mL
							MFS N4	4.97576 ng/mL
							MFS N5	5.04897 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS_M3	1969.53 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN_MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN_MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN_MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN_MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN_MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
.....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN_MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
.....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN_MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN_MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
.....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN_MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
.....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN_MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS5_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	1 mL	MFS N2	9.63932 ng/mL
							MFS M3	9.84766 ng/mL
							MFS N3	10.0129 ng/mL
							MFS M4	9.81629 ng/mL
							MFS N4	9.95152 ng/mL
							MFS N5	10.0979 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS_M3	49238.3 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS6_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	2.5 mL	MFS N2	24.0983 ng/mL
							MFS M3	24.6191 ng/mL
							MFS N3	25.0322 ng/mL
							MFS M4	24.5407 ng/mL
							MFS N4	24.8788 ng/mL
							MFS N5	25.2449 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS7_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	5 mL	MFS N2	48.1966 ng/mL
							MFS M3	49.2383 ng/mL
							MFS N3	50.0644 ng/mL
							MFS M4	49.0814 ng/mL
							MFS N4	49.7576 ng/mL
							MFS N5	50.4897 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

Reagent

PFC_ST_01249



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2354273
ID: PFC_ST_01249
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

- Table A: Components and Concentrations of the Solution/Mixture
- Figure 1: LC/MS Data (SIR)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

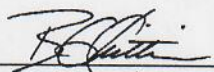
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

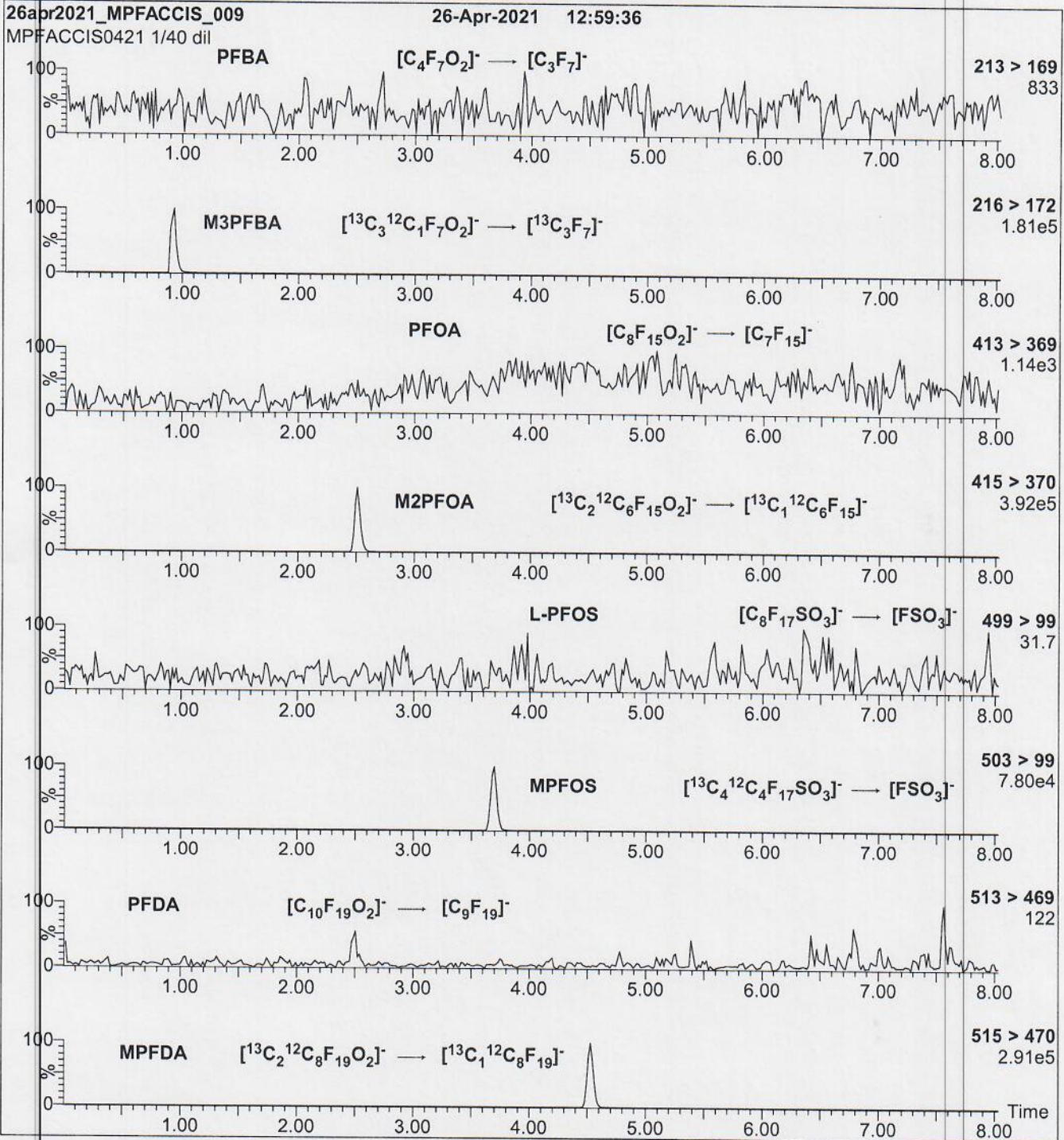
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01410



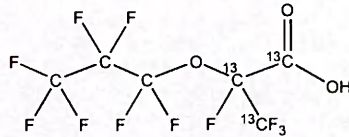
WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

AFC-ST-01410

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA1121
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)^(13C₃)propanoic acid

STRUCTURE: **CAS #:** Not available



410-2416299

MOLECULAR FORMULA: ¹³C₃¹²C₃HF₁₁O₃ **MOLECULAR WEIGHT:** 333.03
CONCENTRATION: 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 11/11/2021
EXPIRY DATE: (mm/dd/yyyy) 11/11/2024
RECOMMENDED STORAGE: Refrigerate ampoule

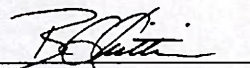
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 11/16/2021
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

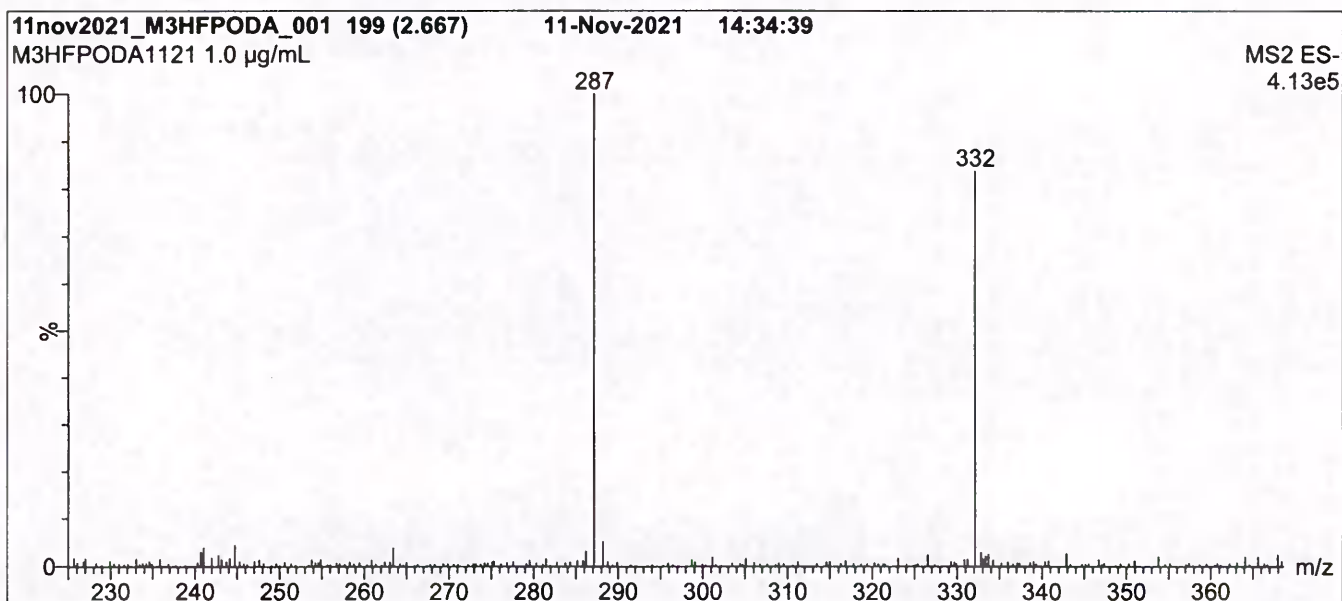
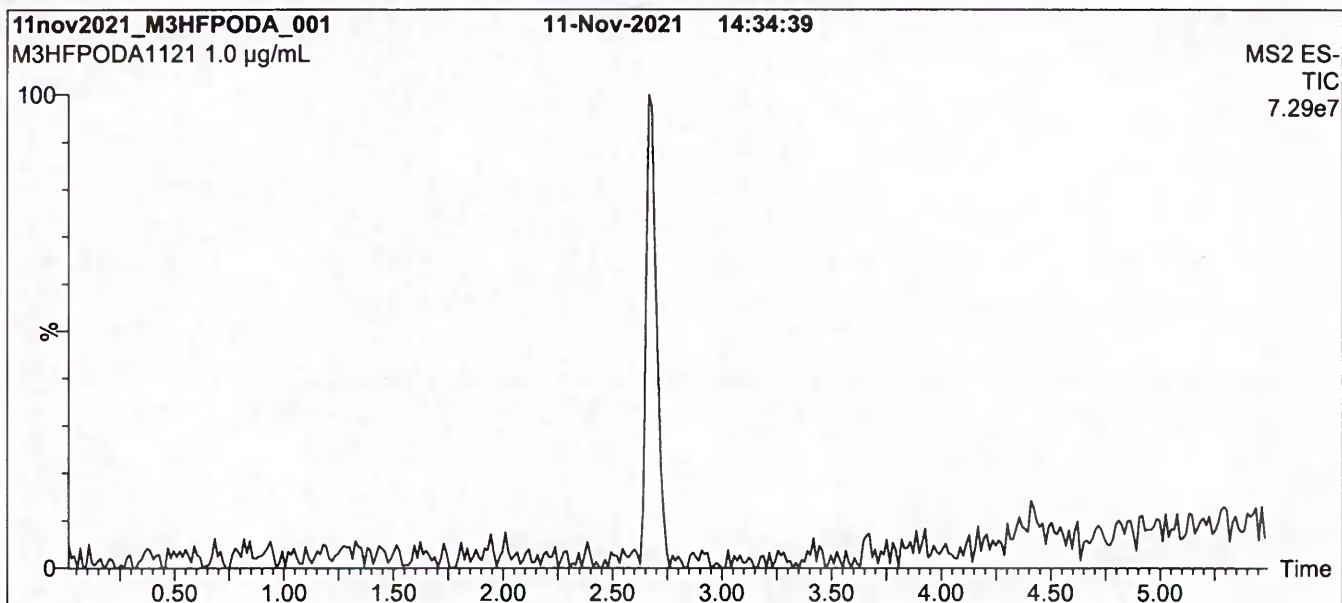
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M3HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H₂O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.75 min.
Time: 12 min

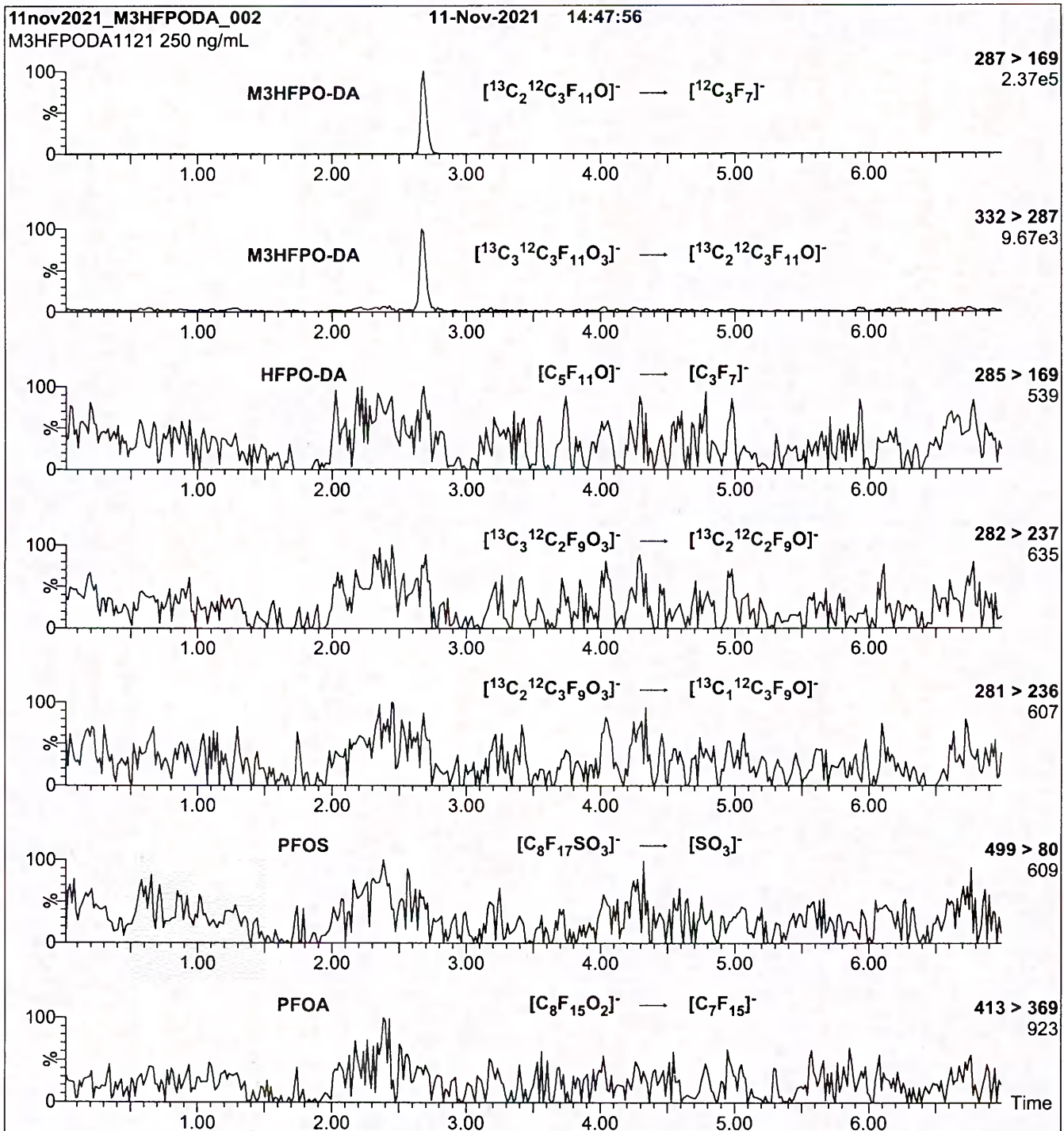
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (M3HFPO-DA)
Mobile phase: Same as Figure 1
Flow: 300 $\mu\text{L}/\text{min}$

MS Parameters:

Collision Gas (mbar) = 3.37e-3
Collision Energy (eV) = 8

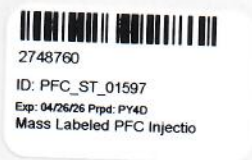
Reagent

PFC_ST_01597



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:


- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

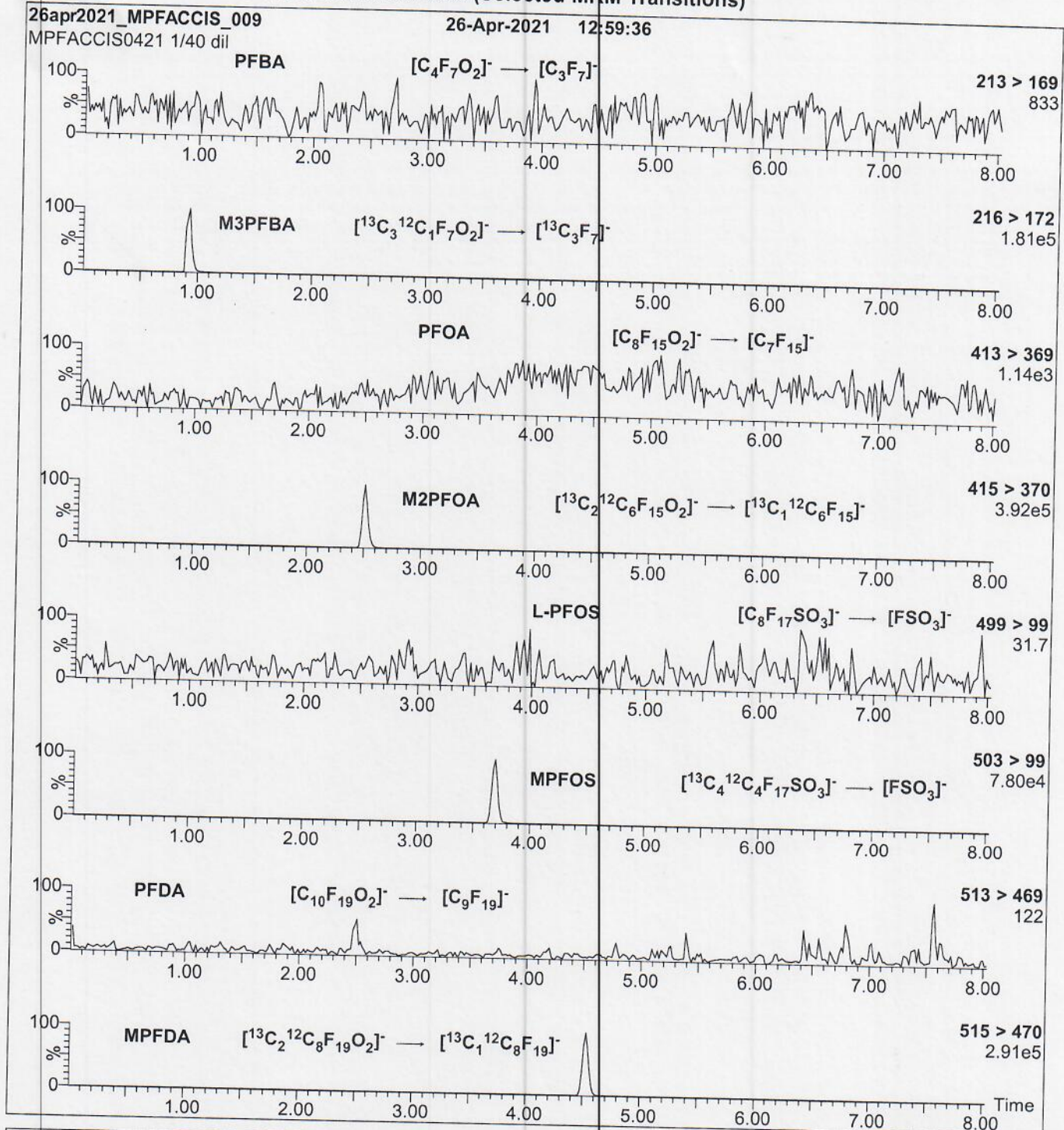
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01680



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**


2858245
ID: PFC_ST_01680
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

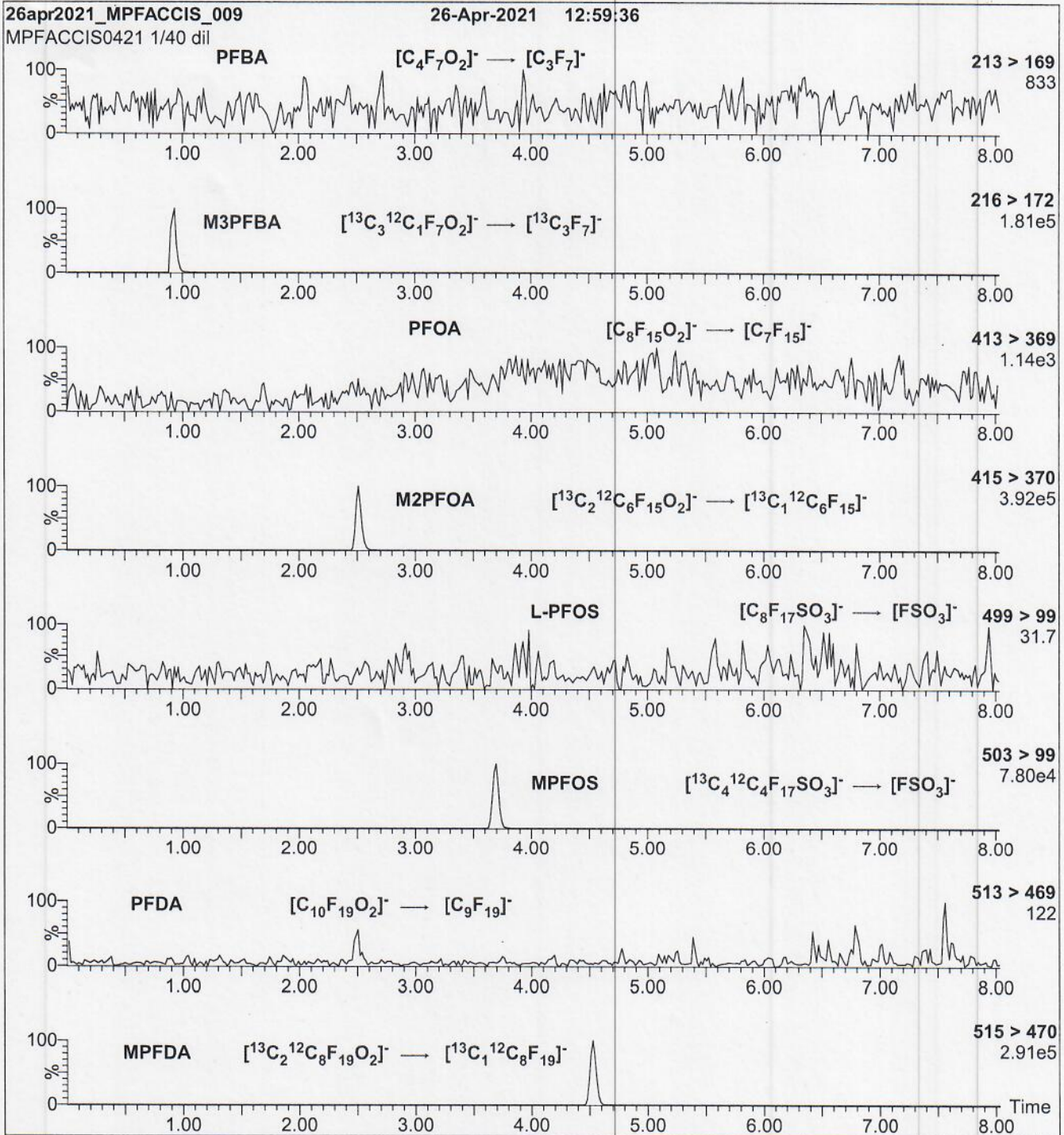
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01726



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2984963
ID: PFC_ST_01726
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

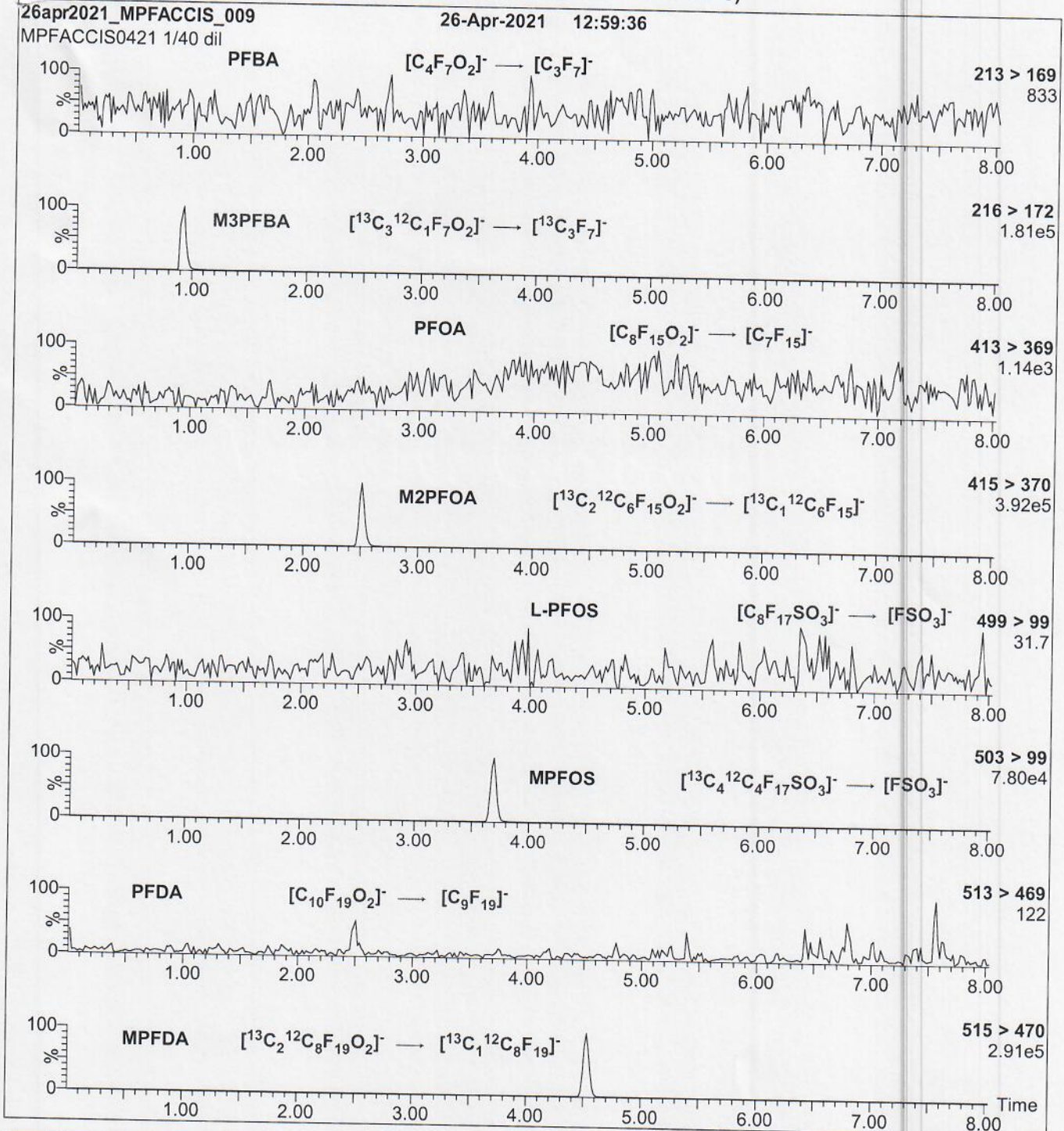
Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

BFS_IDA

**Bi-functional Surfactants (BFS) by
LC/MS/MS using Isotope Dilution**

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-124S	410-90799-1	116
MW-124D	410-90799-2	102
MW-111S	410-90799-3	123
MW-111D	410-90799-4	96
MW-110S	410-90799-5	107
MW-110D	410-90799-6	96
MW-36D	410-90799-7	87
MW-42D	410-90799-8	92
EB_071122	410-90799-9	94
MW-43I	410-90799-10	107
MW-43I RE	410-90799-10 RE	102
MW-43D	410-90799-11	112
MW-43D RE	410-90799-11 RE	105
MW-19D	410-90799-12	114
MW-19D RE	410-90799-12 RE	141
MW-19I	410-90799-13	127
MW-19I RE	410-90799-13 RE	165 *5+
MW-19S	410-90799-14	107
MW-19S RE	410-90799-14 RE	113
MW-38D	410-90799-15	151 *5+ cn
MW-38D RE	410-90799-15 RE	127
MW-33S	410-90799-16	114
MW-33S RE	410-90799-16 RE	156 *5+
MW-41D	410-90799-17	109
MW-41D RE	410-90799-17 RE	103
	MB 410-279976/1-A	94
	MB 410-279981/1-A	111
	MB 410-285075/1-A	100
	LCS 410-279976/2-A	95
	LCS 410-279981/2-A	100
	LCS 410-285075/2-A	106

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
	LCSD 410-279976/3-A	90
	LCSD 410-285075/3-A	97

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG09BFS-05.d

Lab ID: LCS 410-279976/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	284	114	70-130	
BFS_A2B3	4.72	5.20	110	70-130	
BFS_A3B	35.8	42.3	118	70-130	
BFS_A3B2	47.2	53.1	113	70-130	
BFS_A4B	19.8	21.6	109	70-130	
BFS_AB2	32.1	45.2	141	70-130	*+
BFS_AB3	268	301	113	70-130	
BFS_B3	114	129	113	70-130	
BFS_B4	62.2	72.5	117	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG05BFS-04.d

Lab ID: LCS 410-279981/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	259	104	70-130	
BFS_A2B3	4.72	4.74	100	70-130	
BFS_A3B	35.8	38.0	106	70-130	
BFS_A3B2	47.2	50.1	106	70-130	
BFS_A4B	19.8	18.9	95	70-130	
BFS_AB2	32.1	36.0	112	70-130	
BFS_AB3	268	266	99	70-130	
BFS_B3	114	115	101	70-130	
BFS_B4	62.2	62.2	100	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG13BFS-18.d

Lab ID: LCS 410-285075/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	246	98	70-130	
BFS_A2B3	4.72	4.16	88	70-130	
BFS_A3B	35.8	39.5	110	70-130	
BFS_A3B2	47.2	44.0	93	70-130	
BFS_A4B	19.8	20.1	101	70-130	
BFS_AB2	32.1	37.7	118	70-130	
BFS_AB3	268	246	92	70-130	
BFS_B3	114	125	110	70-130	
BFS_B4	62.2	60.1	97	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG09BFS-06.d

Lab ID: LCSD 410-279976/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	250	294	118	4	30	70-130	
BFS_A2B3	4.72	5.97	127	14	30	70-130	
BFS_A3B	35.8	44.8	125	6	30	70-130	
BFS_A3B2	47.2	57.1	121	7	30	70-130	
BFS_A4B	19.8	22.5	114	4	30	70-130	
BFS_AB2	32.1	48.5	151	7	30	70-130	*+
BFS_AB3	268	324	121	7	30	70-130	
BFS_B3	114	134	117	4	30	70-130	
BFS_B4	62.2	78.6	126	8	30	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 22AUG13BFS-19.d

Lab ID: LCSD 410-285075/3-A

Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	250	267	107	8	30	70-130	
BFS_A2B3	4.72	4.48	95	7	30	70-130	
BFS_A3B	35.8	42.7	119	8	30	70-130	
BFS_A3B2	47.2	47.8	101	8	30	70-130	
BFS_A4B	19.8	21.5	109	7	30	70-130	
BFS_AB2	32.1	41.1	128	9	30	70-130	
BFS_AB3	268	272	102	10	30	70-130	
BFS_B3	114	131	115	4	30	70-130	
BFS_B4	62.2	63.8	103	6	30	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Lab File ID: 22AUG05BFS-30.d

Lab Sample ID: MB 410-279976/1-A

Matrix: Water

Date Extracted: 07/27/2022 10:06

Instrument ID: 30733

Date Analyzed: 08/09/2022 08:51

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-43D	410-90799-11	22AUG05BFS-34.d	08/09/2022 09:42
MW-38D	410-90799-15	22AUG05BFS-38.d	08/09/2022 10:32
MW-33S	410-90799-16	22AUG05BFS-39.d	08/09/2022 10:45
	LCS 410-279976/2-A	22AUG09BFS-05.d	08/10/2022 03:17
	LCSD 410-279976/3-A	22AUG09BFS-06.d	08/10/2022 03:29
MW-43I	410-90799-10	22AUG09BFS-07.d	08/10/2022 03:42
MW-19D	410-90799-12	22AUG09BFS-09.d	08/10/2022 04:07
MW-19I	410-90799-13	22AUG09BFS-12.d	08/10/2022 04:45
MW-19S	410-90799-14	22AUG09BFS-13.d	08/10/2022 04:58
MW-41D	410-90799-17	22AUG09BFS-15.d	08/10/2022 05:23

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Lab File ID: 22AUG05BFS-03.d

Lab Sample ID: MB 410-279981/1-A

Matrix: Water

Date Extracted: 07/27/2022 10:12

Instrument ID: 30733

Date Analyzed: 08/09/2022 03:11

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-279981/2-A	22AUG05BFS-04.d	08/09/2022 03:24
MW-124S	410-90799-1	22AUG05BFS-19.d	08/09/2022 06:33
MW-124D	410-90799-2	22AUG05BFS-20.d	08/09/2022 06:46
MW-111S	410-90799-3	22AUG05BFS-21.d	08/09/2022 06:58
MW-111D	410-90799-4	22AUG05BFS-22.d	08/09/2022 07:11
MW-110S	410-90799-5	22AUG05BFS-23.d	08/09/2022 07:23
MW-110D	410-90799-6	22AUG05BFS-24.d	08/09/2022 07:36
MW-36D	410-90799-7	22AUG05BFS-25.d	08/09/2022 07:49
MW-42D	410-90799-8	22AUG05BFS-26.d	08/09/2022 08:01
EB_071122	410-90799-9	22AUG05BFS-27.d	08/09/2022 08:14

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Lab File ID: 22AUG13BFS-17.d

Lab Sample ID: MB 410-285075/1-A

Matrix: Water

Date Extracted: 08/11/2022 10:35

Instrument ID: 30733

Date Analyzed: 08/14/2022 05:57

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-285075/2-A	22AUG13BFS-18.d	08/14/2022 06:10
	LCSD 410-285075/3-A	22AUG13BFS-19.d	08/14/2022 06:22
MW-43I RE	410-90799-10 RE	22AUG13BFS-20.d	08/14/2022 06:35
MW-43D RE	410-90799-11 RE	22AUG13BFS-21.d	08/14/2022 06:48
MW-19I RE	410-90799-13 RE	22AUG13BFS-23.d	08/14/2022 07:13
MW-19S RE	410-90799-14 RE	22AUG13BFS-24.d	08/14/2022 07:25
MW-38D RE	410-90799-15 RE	22AUG13BFS-25.d	08/14/2022 07:38
MW-33S RE	410-90799-16 RE	22AUG13BFS-26.d	08/14/2022 07:51
MW-41D RE	410-90799-17 RE	22AUG13BFS-27.d	08/14/2022 08:03
MW-19D RE	410-90799-12 RE	22AUG15BFS-07.d	08/15/2022 09:38

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90799-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/09/2022 01:56
 Calibration ID: 41560

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3030427	5.00				
UPPER LIMIT		4545641	5.40				
LOWER LIMIT		1515214	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-283892/11		3466306	5.00				
ICV 410-283892/12		2968895	5.00				
CCVL 410-283897/1		3128234	4.99				
CCV 410-283897/2		3045624	5.00				
MB 410-279981/1-A		3132855	4.99				
LCS 410-279981/2-A		3267519	5.00				
CCV 410-283897/15		2949433	4.99				
CCV 410-283897/18		3039669	4.99				
410-90799-1	MW-124S	2322853	4.99				
410-90799-2	MW-124D	2859967	4.99				
410-90799-3	MW-111S	2466132	4.99				
410-90799-4	MW-111D	2581351	4.99				
410-90799-5	MW-110S	2662169	5.00				
410-90799-6	MW-110D	2550384	4.98				
410-90799-7	MW-36D	2505762	4.98				
410-90799-8	MW-42D	2695107	4.99				
410-90799-9	EB_071122	3179572	4.99				
CCV 410-283897/29		2949271	5.00				
MB 410-279976/1-A		3666744	4.99				
410-90799-11	MW-43D	2689220	5.00				
410-90799-15	MW-38D	2216603	5.01				
410-90799-16	MW-33S	2899176	5.00				
CCV 410-283897/41		3043415	5.00				
CCVL 410-284260/1		2891998	5.00				
CCV 410-284260/4		3078414	4.99				
LCS 410-279976/2-A		3561531	4.99				
LCSD 410-279976/3-A		3646408	4.99				
410-90799-10	MW-43I	2370755	5.00				
410-90799-12	MW-19D	2669475	4.99				
410-90799-13	MW-19I	2435696	4.99				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90799-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3 (mm) Calibration End Date: 08/09/2022 01:56
 Calibration ID: 41560

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3030427	5.00				
UPPER LIMIT		4545641	5.40				
LOWER LIMIT		1515214	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-90799-14	MW-19S	2997739	5.00				
410-90799-17	MW-41D	2721588	5.00				
CCV 410-284260/16		3129695	4.99				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Calibration Start Date: 08/14/2022 02:34

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/14/2022 04:29

Calibration ID: 41718

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3053714	4.96				
UPPER LIMIT		4580571	5.36				
LOWER LIMIT		1526857	4.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-285706/11		3568767	4.95				
ICV 410-285706/12		2819357	4.95				
CCVL 410-285708/1		3039983	4.95				
CCV 410-285708/2		2944460	4.95				
MB 410-285075/1-A		3080517	4.96				
LCS 410-285075/2-A		3188725	4.96				
LCSD 410-285075/3-A		3174670	4.96				
410-90799-10 RE	MW-43I RE	2584564	4.96				
410-90799-11 RE	MW-43D RE	2715989	4.96				
410-90799-13 RE	MW-19I RE	1553387	4.95				
410-90799-14 RE	MW-19S RE	2643806	4.96				
410-90799-15 RE	MW-38D RE	2285792	4.96				
410-90799-16 RE	MW-33S RE	2054338	4.96				
410-90799-17 RE	MW-41D RE	2864528	4.96				
CCV 410-285708/16		2977389	4.96				
CCVL 410-285953/1		3098397	4.98				
CCV 410-285953/2		2958392	4.97				
410-90799-12 RE	MW-19D RE	2801778	4.96				
CCV 410-285953/5		2982294	4.97				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-124S Lab Sample ID: 410-90799-1

Matrix: Water Lab File ID: 22AUG05BFS-19.d

Analysis Method: BFS Date Collected: 07/11/2022 10:20

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 315.5(mL) Date Analyzed: 08/09/2022 06:33

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1.5		1.1	0.32
STL02887	BFS_A2B3	ND		0.87	0.32
STL02880	BFS_A3B	ND		0.48	0.16
STL02885	BFS_A3B2	ND		0.63	0.16
STL02883	BFS_A4B	ND		0.32	0.16
STL02879	BFS_AB2	0.66		0.48	0.063
STL02884	BFS_AB3	1.6		1.2	0.32
STL02881	BFS_B3	1.5		0.55	0.24
STL02886	BFS_B4	ND		0.87	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	116		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-19.d
 Lims ID: 410-90799-B-1-B
 Client ID: MW-124S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 06:33:31 ALS Bottle#: 27 Worklist Smp#: 19
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-1-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:10:27
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.961	-0.010	0.902	31546	0.2097	743	
3 BFS_B3	553.00 > 345.00	4.188	4.201	-0.013	0.956	44368	0.4862	181	
4 BFS_A2B2	569.00 > 229.00	4.297	4.305	-0.008	0.981	35483	0.4885	187	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.380	4.389	-0.009	0.878	576884	5.80	116	328
7 BFS_AB3	619.00 > 229.00	4.565	4.565	0.0	1.042	42535	0.4960	254	
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		2322853	5.00	362	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-19.d

Injection Date: 09-Aug-2022 06:33:31

Instrument ID: 30733

Lims ID: 410-90799-B-1-B

Lab Sample ID: 410-90799-1

Client ID: MW-124S

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 19

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

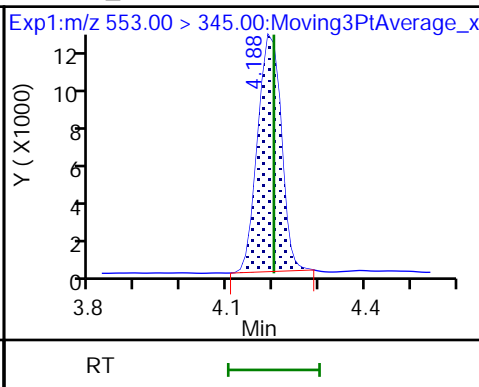
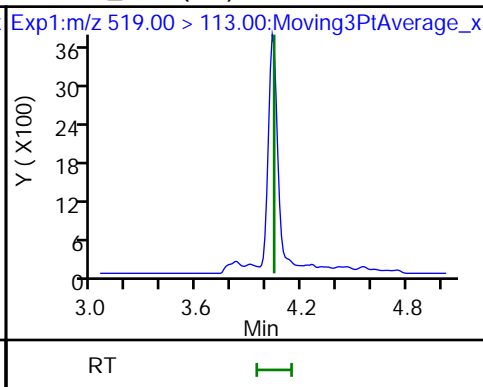
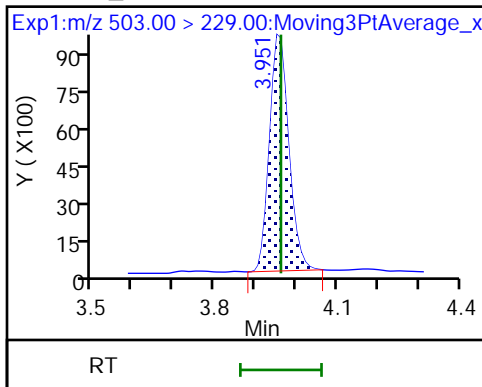
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B (ND)

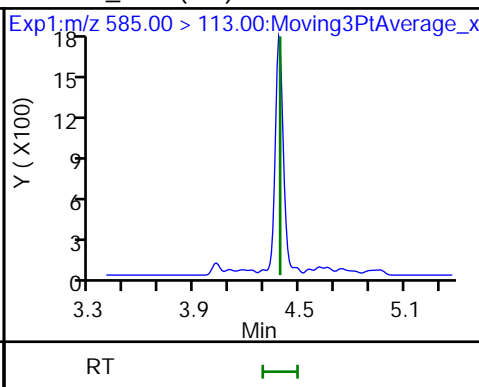
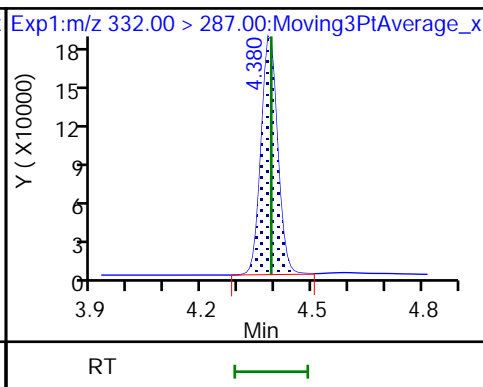
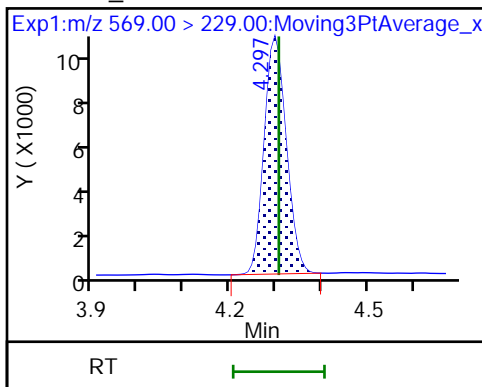
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

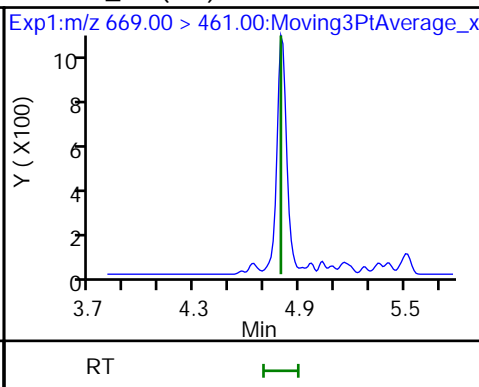
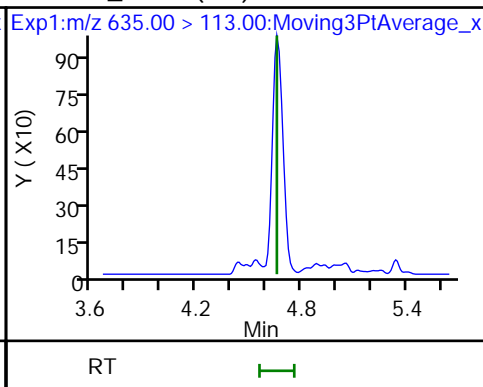
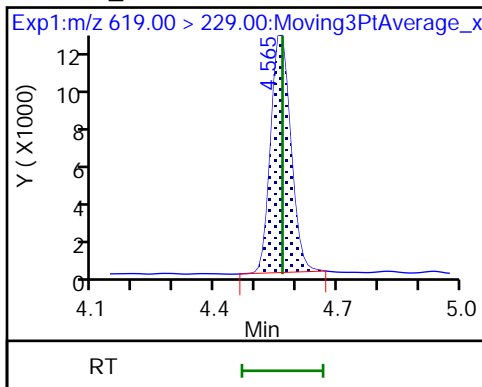
5 BFS_A4B (ND)



7 BFS_AB3

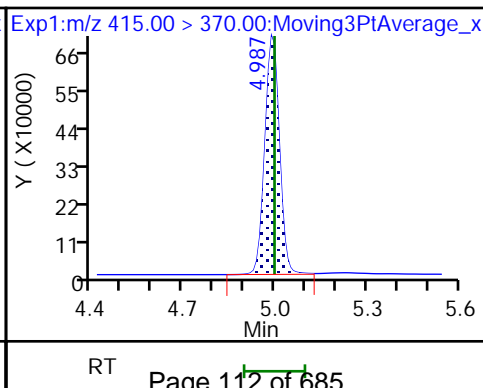
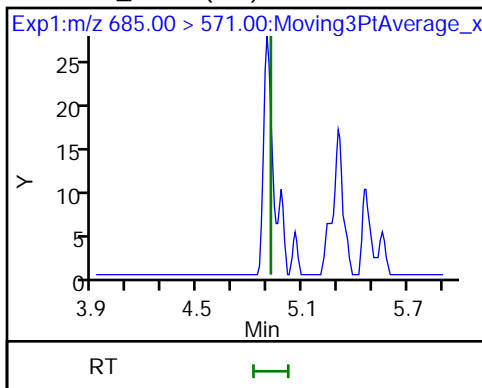
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-124D Lab Sample ID: 410-90799-2

Matrix: Water Lab File ID: 22AUG05BFS-20.d

Analysis Method: BFS Date Collected: 07/11/2022 10:10

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 269.6(mL) Date Analyzed: 08/09/2022 06:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.3	0.37
STL02887	BFS_A2B3	ND		1.0	0.37
STL02880	BFS_A3B	ND		0.56	0.19
STL02885	BFS_A3B2	ND		0.74	0.19
STL02883	BFS_A4B	ND		0.37	0.19
STL02879	BFS_AB2	ND		0.56	0.074
STL02884	BFS_AB3	ND		1.4	0.37
STL02881	BFS_B3	ND		0.65	0.28
STL02886	BFS_B4	ND		1.0	0.37

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-20.d
 Lims ID: 410-90799-B-2-B
 Client ID: MW-124D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 06:46:06 ALS Bottle#: 28 Worklist Smp#: 20
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-2-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:19:20
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.379	4.389	-0.010	0.878	624351	5.09	102	345
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		2859967	5.00		344

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-20.d

Injection Date: 09-Aug-2022 06:46:06

Instrument ID: 30733

Lims ID: 410-90799-B-2-B

Lab Sample ID: 410-90799-2

Client ID: MW-124D

Operator ID: US19_USR_INS20260

ALS Bottle#: 28

Worklist Smp#: 20

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

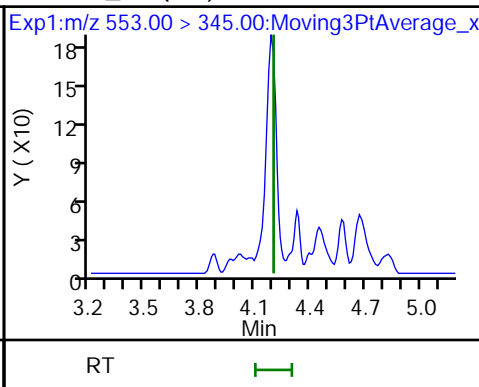
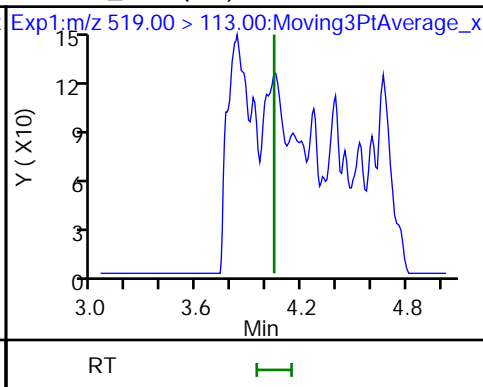
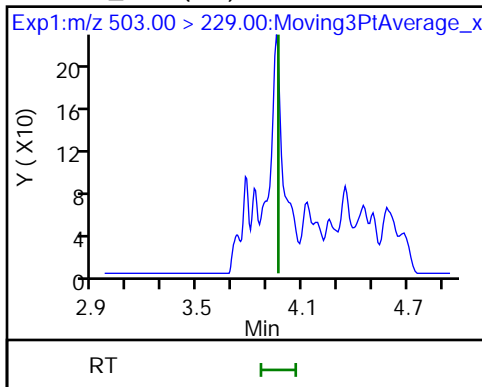
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

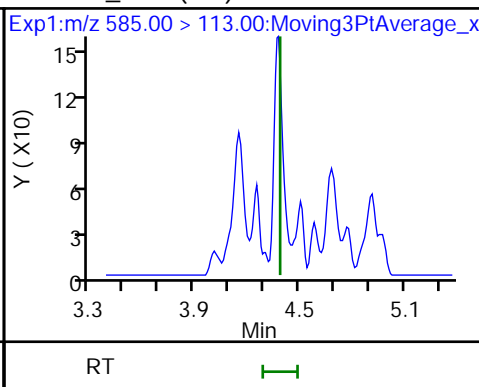
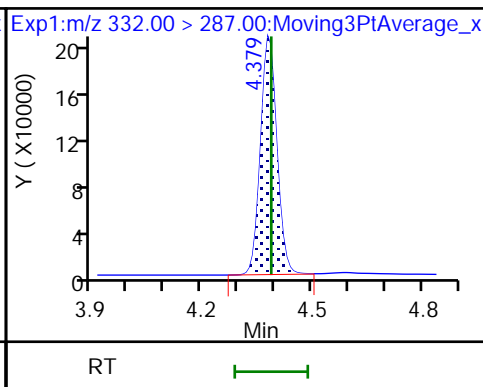
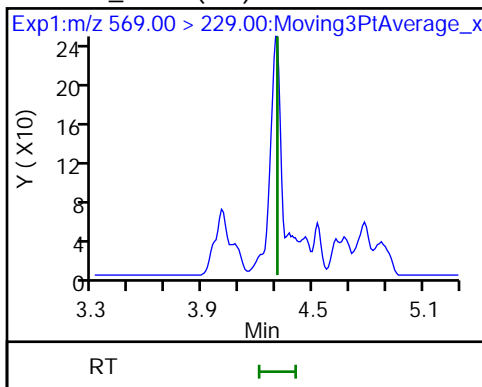
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

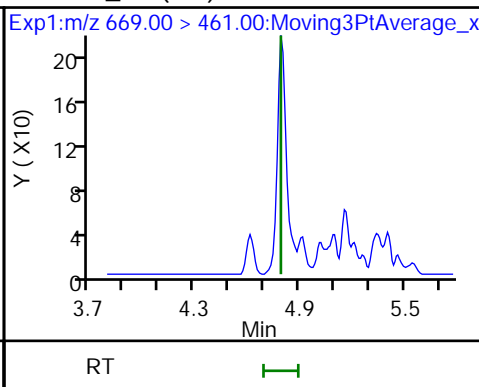
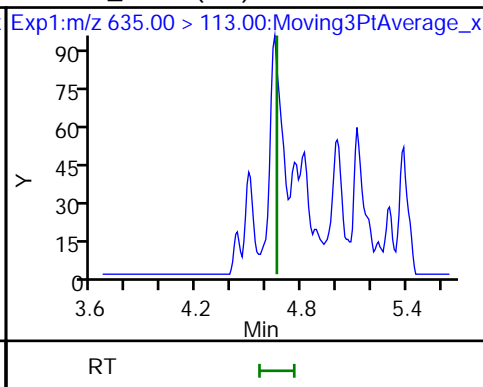
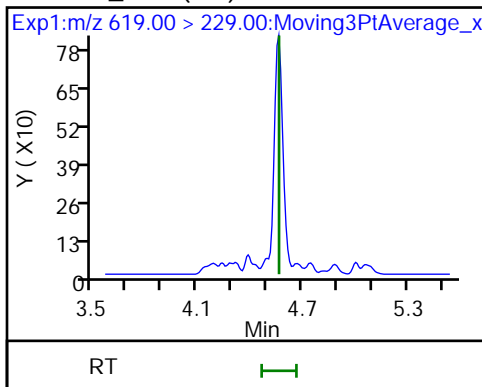
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

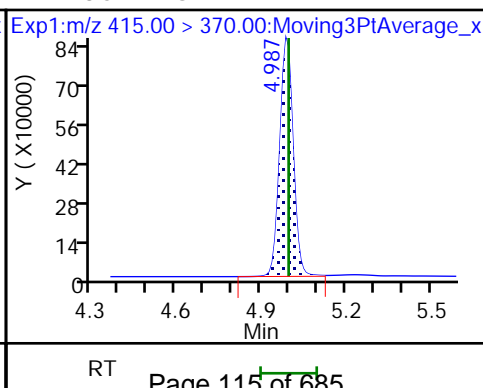
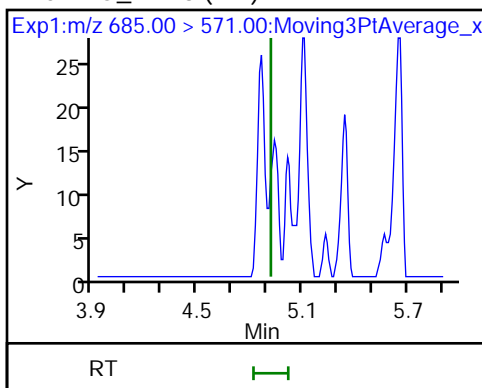
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S Lab Sample ID: 410-90799-3

Matrix: Water Lab File ID: 22AUG05BFS-21.d

Analysis Method: BFS Date Collected: 07/11/2022 13:30

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 304.1(mL) Date Analyzed: 08/09/2022 06:58

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	240		1.2	0.33
STL02887	BFS_A2B3	1.3		0.90	0.33
STL02880	BFS_A3B	45		0.49	0.16
STL02885	BFS_A3B2	13		0.66	0.16
STL02883	BFS_A4B	15		0.33	0.16
STL02879	BFS_AB2	50		0.49	0.066
STL02884	BFS_AB3	130		1.2	0.33
STL02881	BFS_B3	130		0.58	0.25
STL02886	BFS_B4	5.5		0.90	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	123		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-21.d
 Lims ID: 410-90799-B-3-B
 Client ID: MW-111S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 06:58:40 ALS Bottle#: 29 Worklist Smp#: 21
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-3-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-021
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:19:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.961	-0.009	0.902	2648244	15.2	10250	
2 BFS_A3B	519.00 > 113.00	4.032	4.043	-0.011	0.921	2678819	13.6	296	
3 BFS_B3	553.00 > 345.00	4.188	4.201	-0.013	0.956	4491136	40.8	256	
4 BFS_A2B2	569.00 > 229.00	4.297	4.305	-0.008	0.981	5425211	73.6	321	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.380	4.389	-0.009	0.878	649690	6.15	123	363
5 BFS_A4B	585.00 > 113.00	4.380	4.389	-0.009	1.000	1168979	4.63	324	
7 BFS_AB3	619.00 > 229.00	4.555	4.565	-0.010	1.040	3972848	40.4	407	
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.063	697297	3.80	349	
9 BFS_B4	669.00 > 461.00	4.793	4.793	0.0	1.094	99494	1.67	288	
10 BFS_A2B3	685.00 > 571.00	4.907	4.918	-0.011	1.120	2252	0.4026	55.9	M
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		2466132	5.00	370	M

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-21.d

Injection Date: 09-Aug-2022 06:58:40

Instrument ID: 30733

Lims ID: 410-90799-B-3-B

Lab Sample ID: 410-90799-3

Client ID: MW-111S

Operator ID: US19_USR_INS20260

ALS Bottle#: 29

Worklist Smp#: 21

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

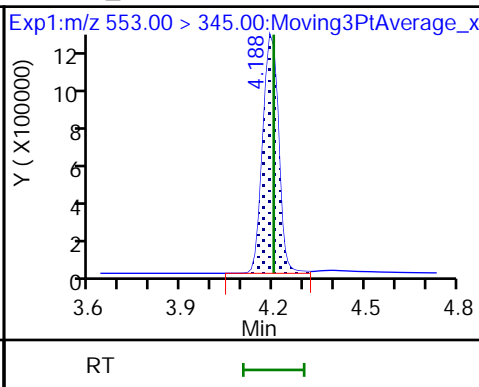
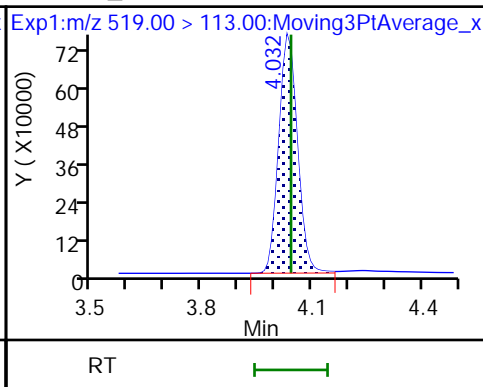
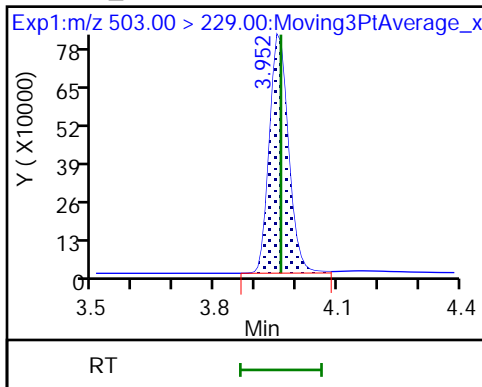
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

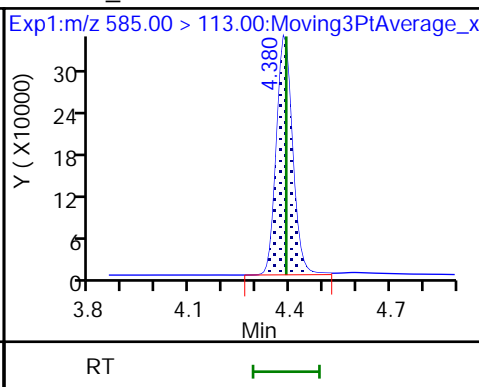
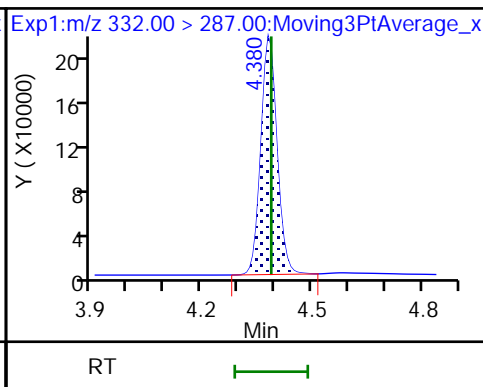
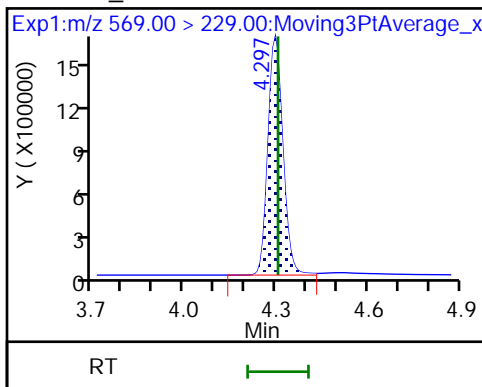
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

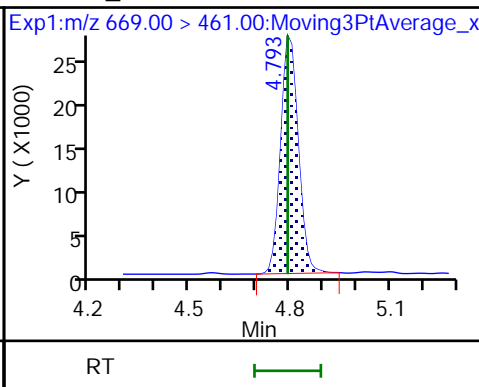
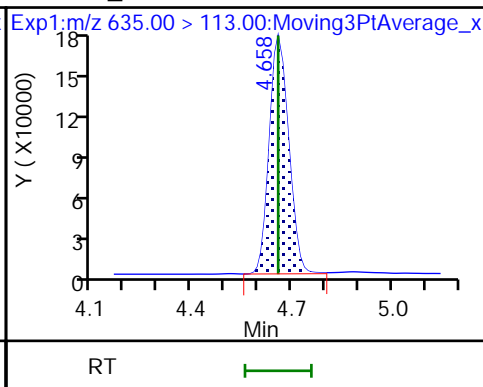
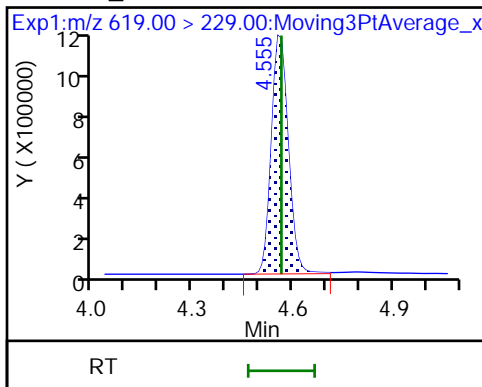
5 BFS_A4B



7 BFS_AB3

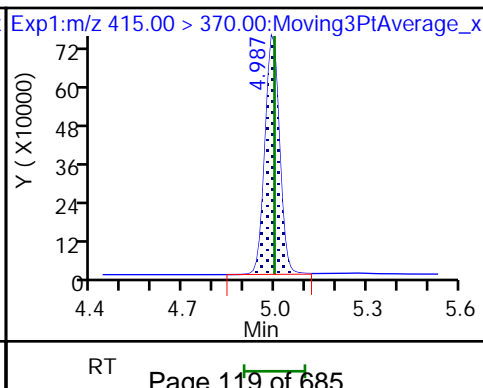
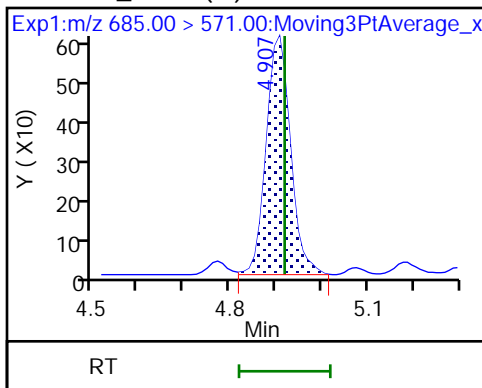
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

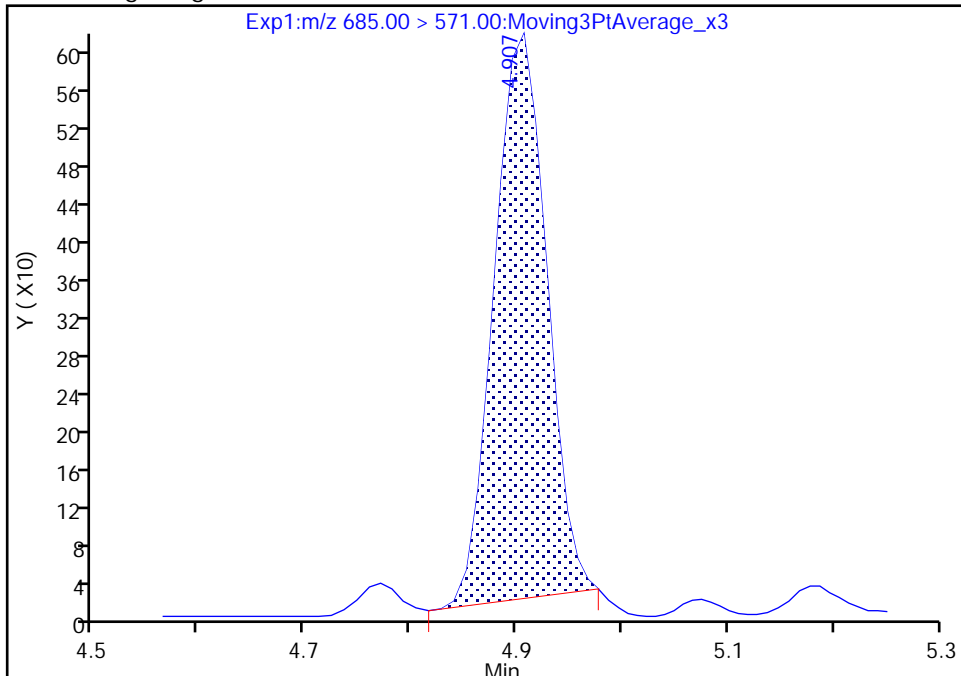
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-21.d
Injection Date: 09-Aug-2022 06:58:40 Instrument ID: 30733
Lims ID: 410-90799-B-3-B Lab Sample ID: 410-90799-3
Client ID: MW-111S
Operator ID: US19_USR_INS20260 ALS Bottle#: 29 Worklist Smp#: 21
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

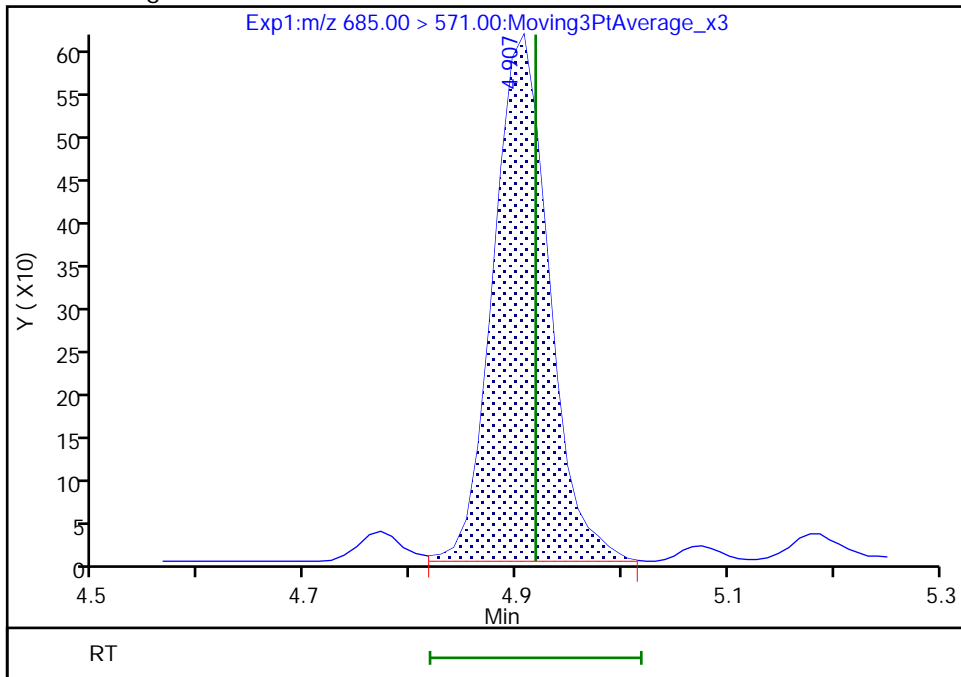
RT: 4.91
Area: 2058
Amount: 0.367345
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 2252
Amount: 0.402617
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 10:19:32
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 120 of 685

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D Lab Sample ID: 410-90799-4

Matrix: Water Lab File ID: 22AUG05BFS-22.d

Analysis Method: BFS Date Collected: 07/11/2022 14:10

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 294.7(mL) Date Analyzed: 08/09/2022 07:11

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	55		1.2	0.34
STL02887	BFS_A2B3	29		0.93	0.34
STL02880	BFS_A3B	4.2		0.51	0.17
STL02885	BFS_A3B2	18		0.68	0.17
STL02883	BFS_A4B	4.1		0.34	0.17
STL02879	BFS_AB2	11		0.51	0.068
STL02884	BFS_AB3	170		1.3	0.34
STL02881	BFS_B3	37		0.59	0.25
STL02886	BFS_B4	80		0.93	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-22.d
 Lims ID: 410-90799-B-4-B
 Client ID: MW-111D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 07:11:17 ALS Bottle#: 30 Worklist Smp#: 22
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-4-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-022
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:19:41
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.951	3.961	-0.010	0.902	469357	3.35	5204	
2 BFS_A3B	519.00 > 113.00	4.032	4.043	-0.011	0.921	196874	1.25	198	
3 BFS_B3	553.00 > 345.00	4.188	4.201	-0.013	0.956	984565	11.0	255	
4 BFS_A2B2	569.00 > 229.00	4.296	4.305	-0.009	0.981	980053	16.2	312	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.380	4.389	-0.009	0.878	531259	4.80	96.1	324
5 BFS_A4B	585.00 > 113.00	4.380	4.389	-0.009	1.000	249911	1.21	305	
7 BFS_AB3	619.00 > 229.00	4.554	4.565	-0.011	1.040	3906048	48.7	474	
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.063	786861	5.25	352	
9 BFS_B4	669.00 > 461.00	4.792	4.793	-0.001	1.094	1139316	23.5	395	
10 BFS_A2B3	685.00 > 571.00	4.907	4.918	-0.011	1.120	39530	8.45	266	
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		2581351	5.00	320	

QC Flag Legend
 Processing Flags

Reagents:

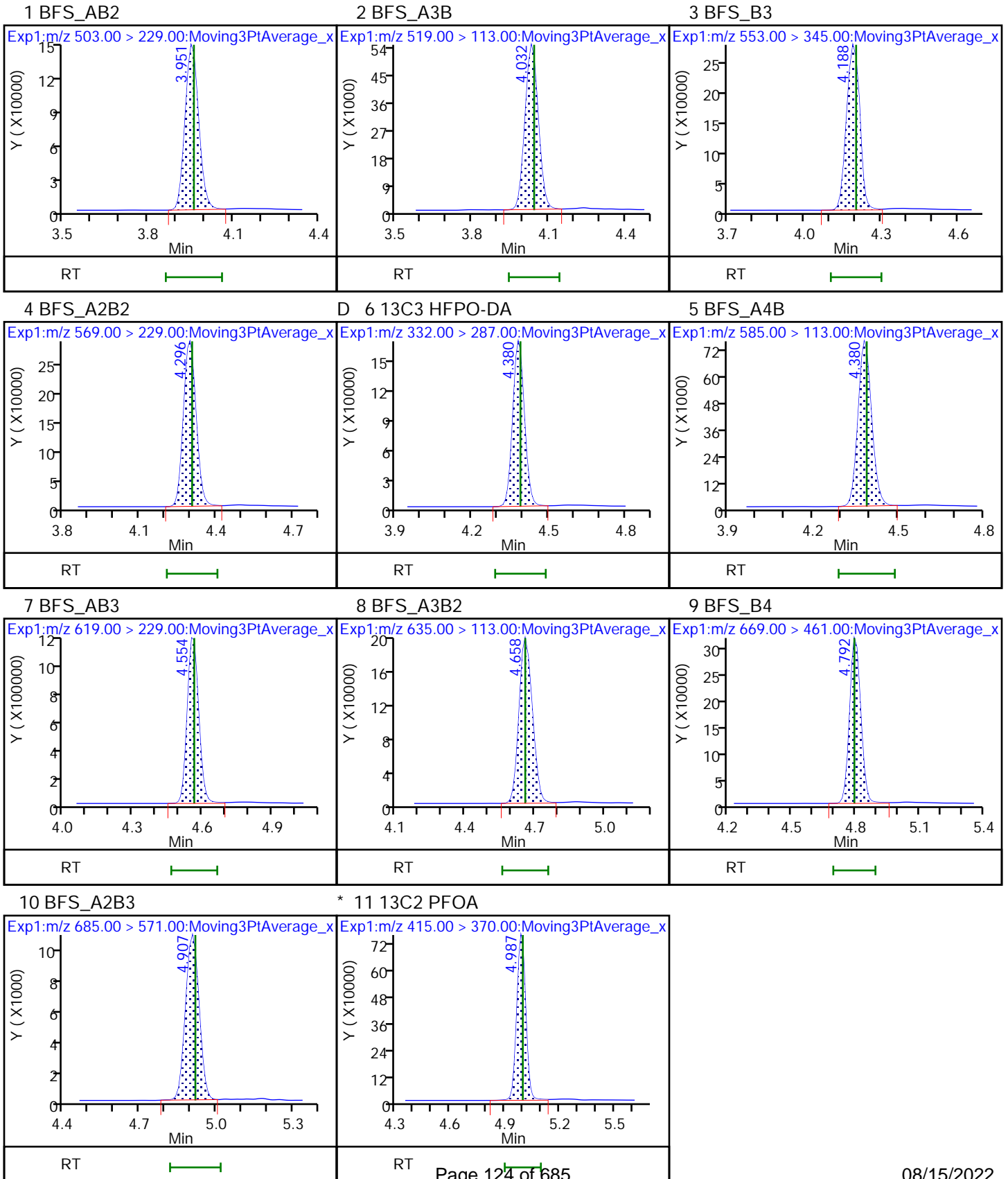
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Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-22.d
Injection Date: 09-Aug-2022 07:11:17 Instrument ID: 30733
Lims ID: 410-90799-B-4-B Lab Sample ID: 410-90799-4
Client ID: MW-111D
Operator ID: US19_USR_INS20260 ALS Bottle#: 30 Worklist Smp#: 22
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-110S Lab Sample ID: 410-90799-5

Matrix: Water Lab File ID: 22AUG05BFS-23.d

Analysis Method: BFS Date Collected: 07/11/2022 09:45

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 298.8(mL) Date Analyzed: 08/09/2022 07:23

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	35		1.2	0.33
STL02887	BFS_A2B3	8.4		0.92	0.33
STL02880	BFS_A3B	1.5		0.50	0.17
STL02885	BFS_A3B2	7.8		0.67	0.17
STL02883	BFS_A4B	2.3		0.33	0.17
STL02879	BFS_AB2	4.6		0.50	0.067
STL02884	BFS_AB3	95		1.3	0.33
STL02881	BFS_B3	19		0.59	0.25
STL02886	BFS_B4	45		0.92	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-23.d
 Lims ID: 410-90799-B-5-B
 Client ID: MW-110S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 07:23:54 ALS Bottle#: 31 Worklist Smp#: 23
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-5-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-023
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:20:52
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.961	-0.009	0.902	221751	1.38	3320	
2 BFS_A3B	519.00 > 113.00	4.033	4.043	-0.010	0.921	79339	0.4408	129	
3 BFS_B3	553.00 > 345.00	4.189	4.201	-0.012	0.956	579608	5.63	259	
4 BFS_A2B2	569.00 > 229.00	4.298	4.305	-0.007	0.981	727130	10.4	334	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.381	4.389	-0.008	0.877	611221	5.36	107	343
5 BFS_A4B	585.00 > 113.00	4.381	4.389	-0.008	1.000	164997	0.6979	309	
7 BFS_AB3	619.00 > 229.00	4.555	4.565	-0.010	1.040	2633116	28.4	436	
8 BFS_A3B2	635.00 > 113.00	4.659	4.658	0.001	1.063	401019	2.33	299	
9 BFS_B4	669.00 > 461.00	4.792	4.793	-0.001	1.094	742119	13.3	390	
10 BFS_A2B3	685.00 > 571.00	4.906	4.918	-0.012	1.120	13192	2.52	209	
* 11 13C2 PFOA	415.00 > 370.00	4.996	4.997	-0.001		2662169	5.00	294	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-23.d

Injection Date: 09-Aug-2022 07:23:54

Instrument ID: 30733

Lims ID: 410-90799-B-5-B

Lab Sample ID: 410-90799-5

Client ID: MW-110S

Operator ID: US19_USR_INS20260

ALS Bottle#: 31

Worklist Smp#: 23

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

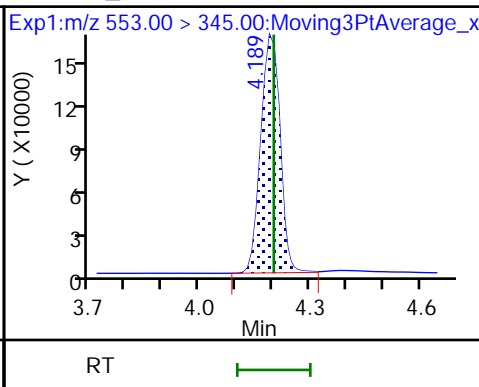
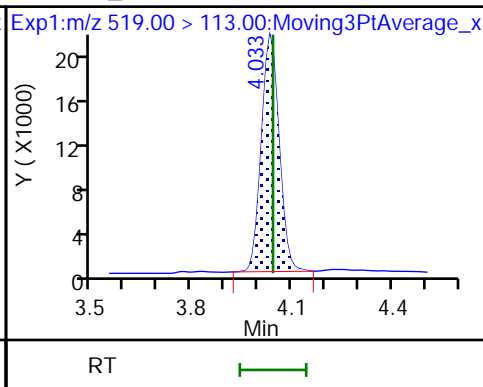
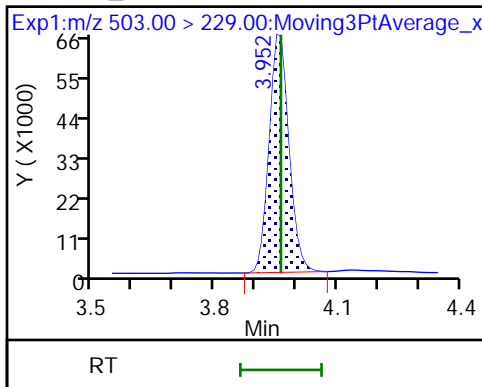
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

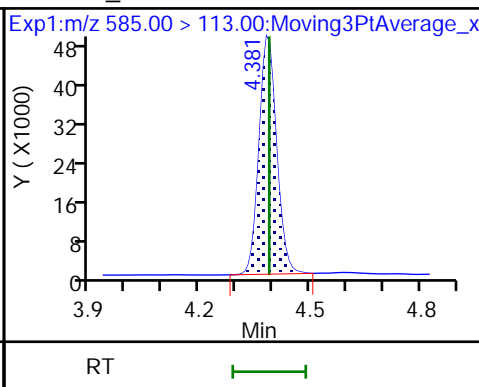
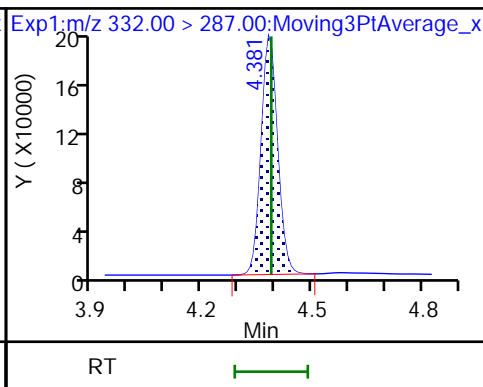
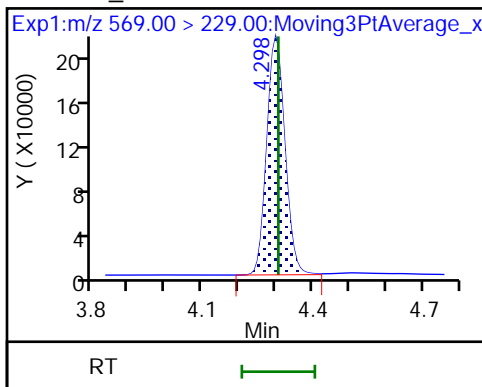
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

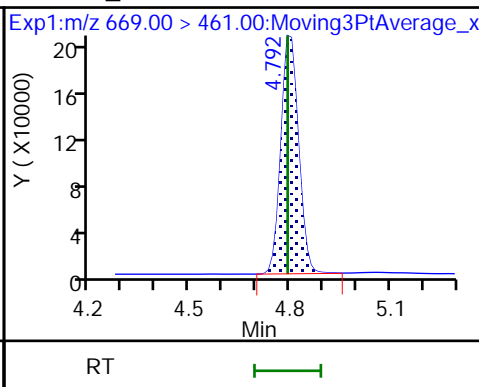
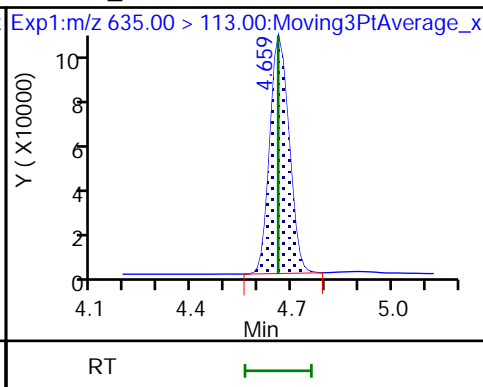
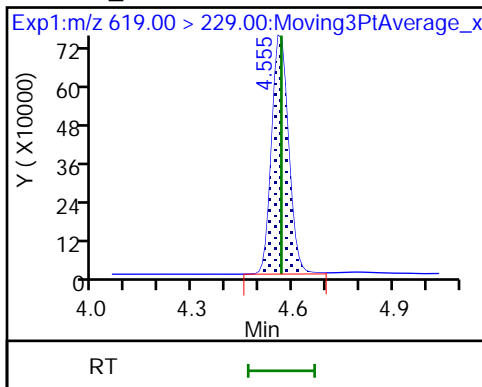
5 BFS_A4B



7 BFS_AB3

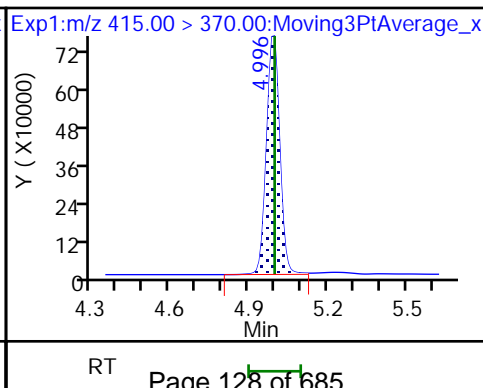
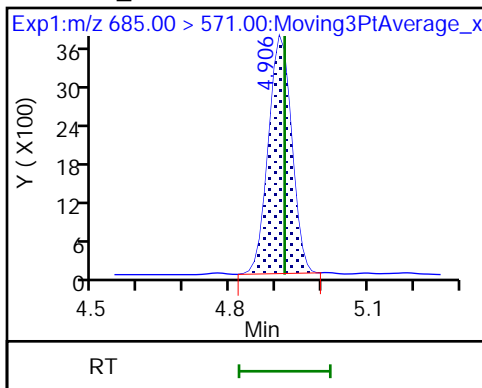
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-110D Lab Sample ID: 410-90799-6

Matrix: Water Lab File ID: 22AUG05BFS-24.d

Analysis Method: BFS Date Collected: 07/11/2022 10:28

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 279(mL) Date Analyzed: 08/09/2022 07:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.50	J	1.3	0.36
STL02887	BFS_A2B3	ND		0.99	0.36
STL02880	BFS_A3B	ND		0.54	0.18
STL02885	BFS_A3B2	ND		0.72	0.18
STL02883	BFS_A4B	ND		0.36	0.18
STL02879	BFS_AB2	ND		0.54	0.072
STL02884	BFS_AB3	1.8		1.3	0.36
STL02881	BFS_B3	0.40	J	0.63	0.27
STL02886	BFS_B4	0.50	J	0.99	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-24.d
 Lims ID: 410-90799-B-6-B
 Client ID: MW-110D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 07:36:28 ALS Bottle#: 32 Worklist Smp#: 24
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-6-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-024
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:21:15
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
3 BFS_B3	553.00 > 345.00	4.191	4.201	-0.010	0.958	7157	0.1127	88.6	
4 BFS_A2B2	569.00 > 229.00	4.291	4.305	-0.014	0.981	11564	0.1403	95.0	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.375	4.389	-0.014	0.878	524488	4.80	96.0	337
7 BFS_AB3	619.00 > 229.00	4.557	4.565	-0.008	1.042	38469	0.4935	267	
9 BFS_B4	669.00 > 461.00	4.786	4.793	-0.007	1.094	7002	0.1398	74.5	M
* 11 13C2 PFOA	415.00 > 370.00	4.981	4.997	-0.016		2550384	5.00	283	

QC Flag Legend

Processing Flags
 Review Flags
 M - Manually Integrated

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-24.d

Injection Date: 09-Aug-2022 07:36:28

Instrument ID: 30733

Lims ID: 410-90799-B-6-B

Lab Sample ID: 410-90799-6

Client ID: MW-110D

Operator ID: US19_USR_INS20260

ALS Bottle#: 32

Worklist Smp#: 24

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

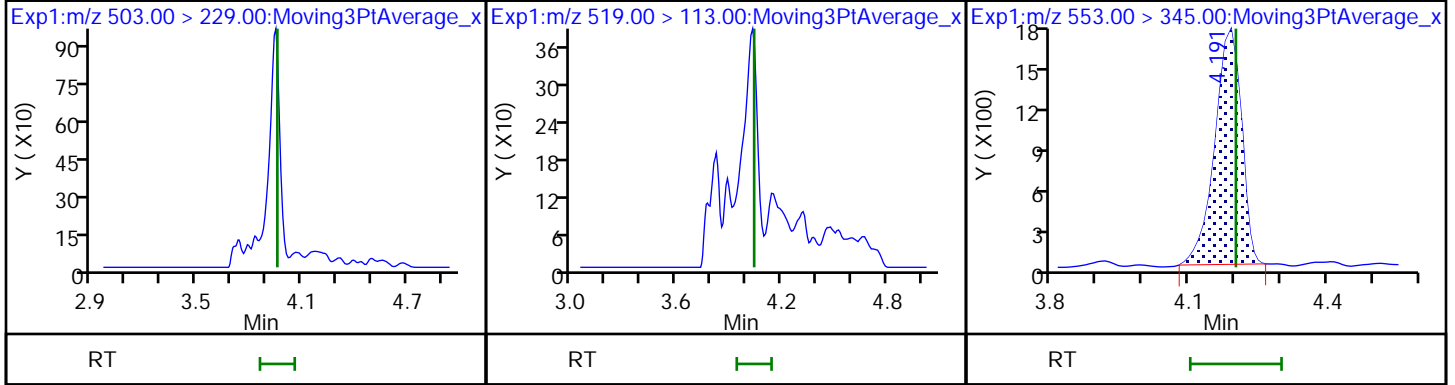
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

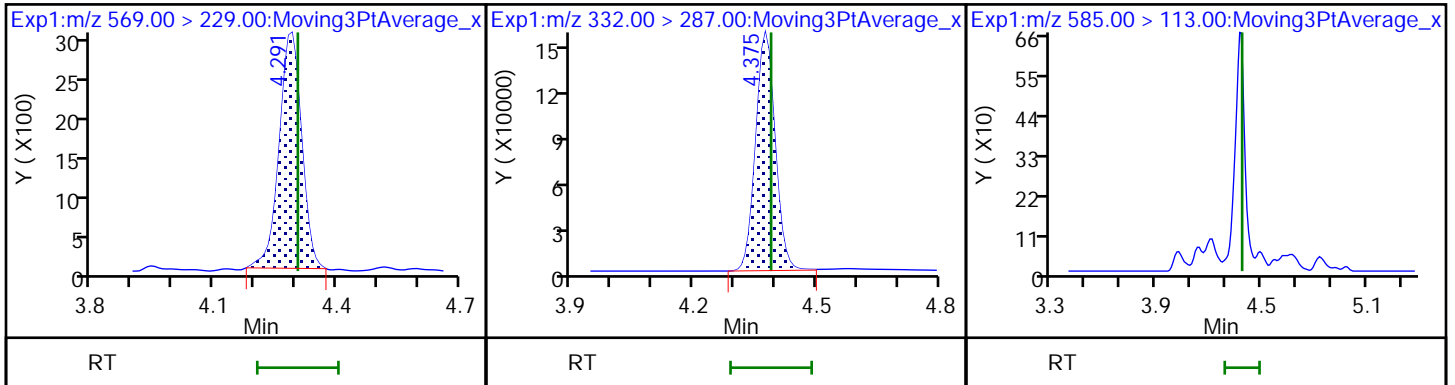
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

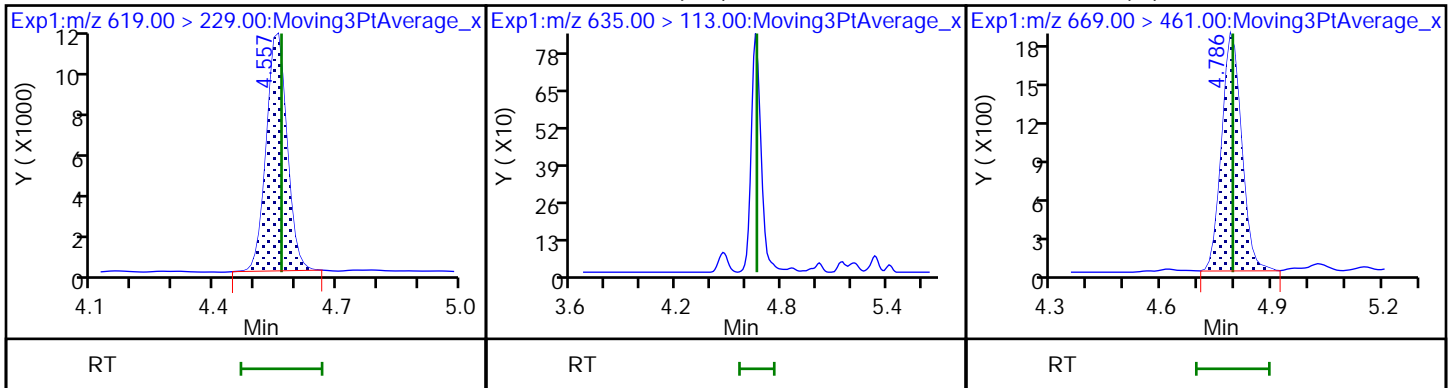
5 BFS_A4B (ND)



7 BFS_AB3

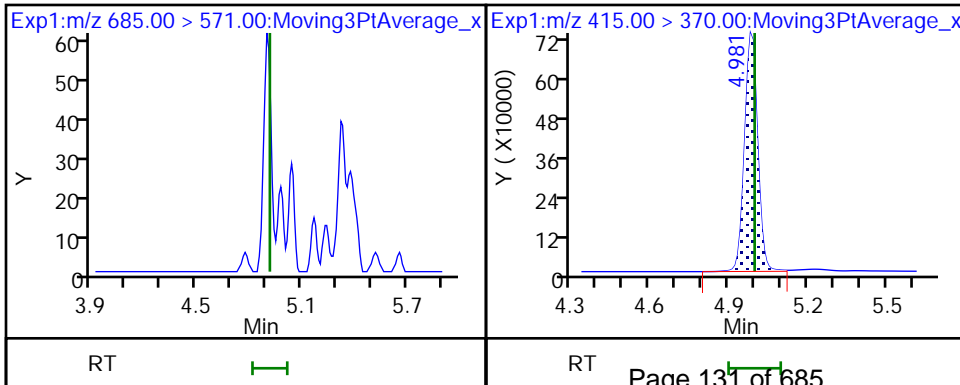
8 BFS_A3B2 (ND)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

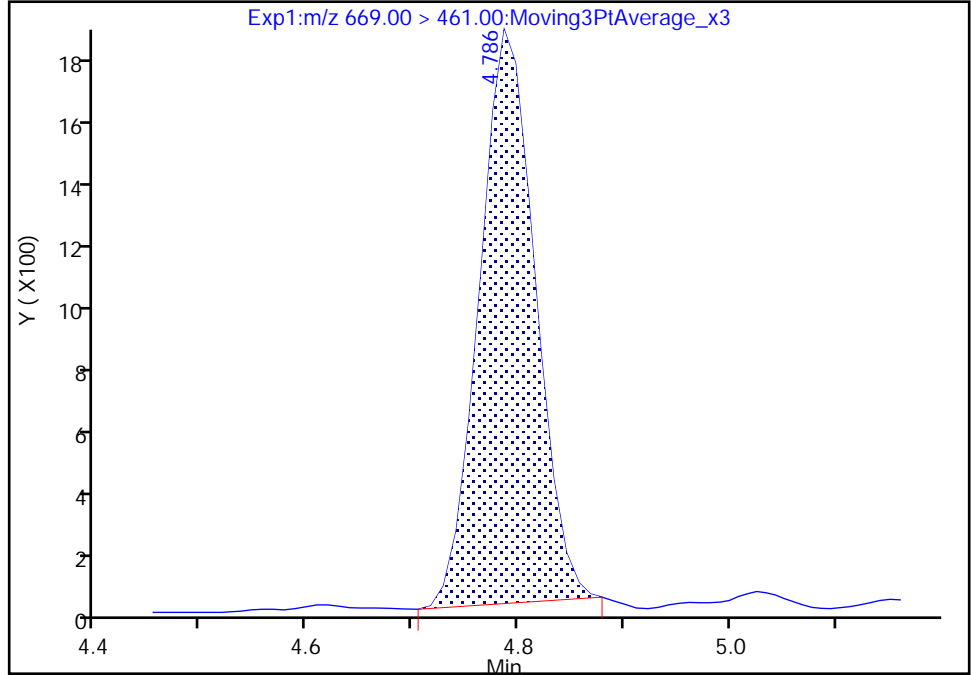
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Injection Date: 09-Aug-2022 07:36:28 Instrument ID: 30733
Lims ID: 410-90799-B-6-B Lab Sample ID: 410-90799-6
Client ID: MW-110D
Operator ID: US19_USR_INS20260 ALS Bottle#: 32 Worklist Smp#: 24
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

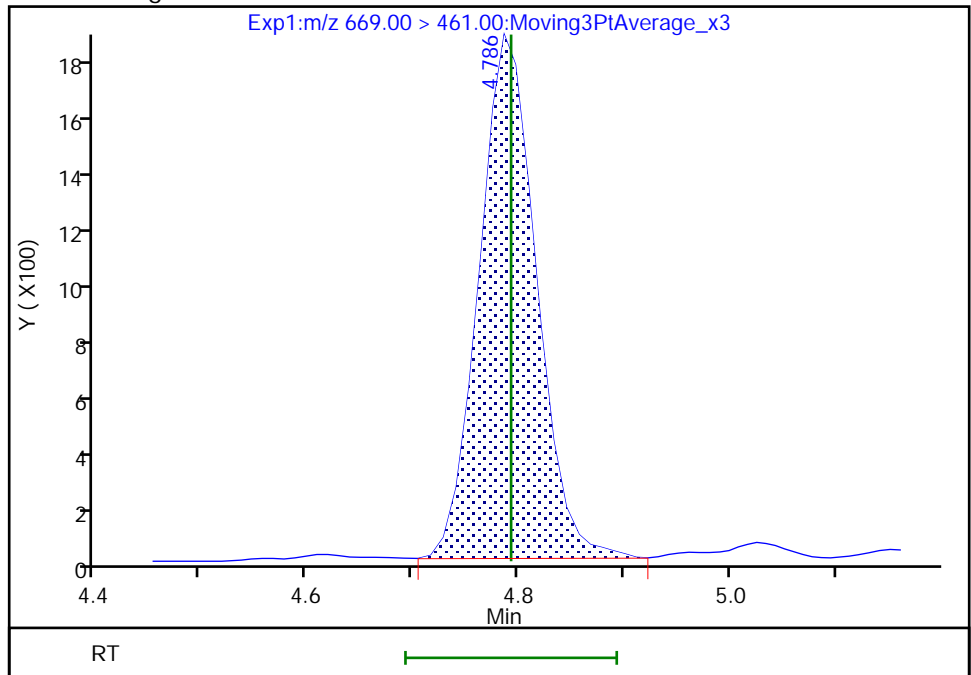
RT: 4.79
Area: 6754
Amount: 0.134629
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 7002
Amount: 0.139812
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 10:21:10
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-36D Lab Sample ID: 410-90799-7

Matrix: Water Lab File ID: 22AUG05BFS-25.d

Analysis Method: BFS Date Collected: 07/11/2022 14:25

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 300.7(mL) Date Analyzed: 08/09/2022 07:49

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.88	J	1.2	0.33
STL02887	BFS_A2B3	ND		0.91	0.33
STL02880	BFS_A3B	ND		0.50	0.17
STL02885	BFS_A3B2	0.35	J	0.67	0.17
STL02883	BFS_A4B	ND		0.33	0.17
STL02879	BFS_AB2	0.35	J	0.50	0.067
STL02884	BFS_AB3	2.4		1.2	0.33
STL02881	BFS_B3	0.65		0.58	0.25
STL02886	BFS_B4	1.2		0.91	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	87		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-25.d
 Lims ID: 410-90799-B-7-B
 Client ID: MW-36D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 07:49:03 ALS Bottle#: 33 Worklist Smp#: 25
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-7-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:21:52

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.951	3.961	-0.010	0.904	12554	0.1038		278	M
3 BFS_B3									
553.00 > 345.00	4.188	4.201	-0.013	0.958	12857	0.1944		84.0	
4 BFS_A2B2									
569.00 > 229.00	4.288	4.305	-0.017	0.981	16965	0.2658		70.7	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.372	4.389	-0.017	0.878	467780	4.36	87.1	380	
7 BFS_AB3									
619.00 > 229.00	4.555	4.565	-0.010	1.042	51278	0.7312		242	
8 BFS_A3B2									
635.00 > 113.00	4.648	4.658	-0.010	1.063	13381	0.1055		44.3	
9 BFS_B4									
669.00 > 461.00	4.793	4.793	0.0	1.096	16207	0.3733		207	
* 11 13C2 PFOA									
415.00 > 370.00	4.978	4.997	-0.019		2505762	5.00		346	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-25.d

Injection Date: 09-Aug-2022 07:49:03

Instrument ID: 30733

Lims ID: 410-90799-B-7-B

Lab Sample ID: 410-90799-7

Client ID: MW-36D

Operator ID: US19_USR_INS20260

ALS Bottle#: 33

Worklist Smp#: 25

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

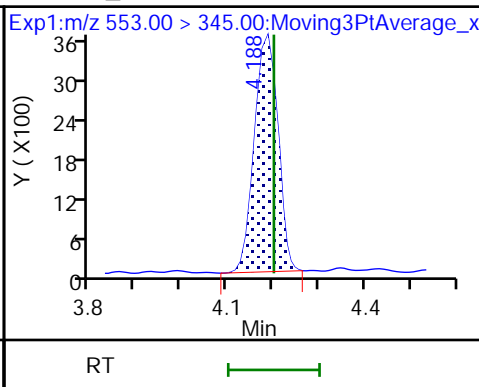
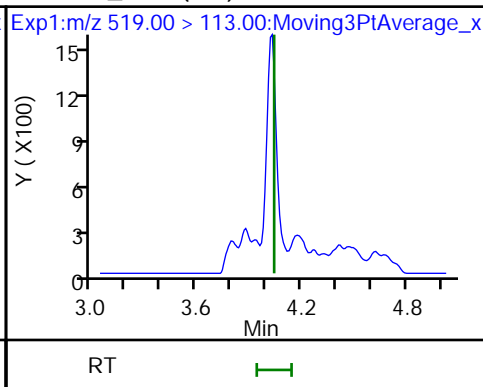
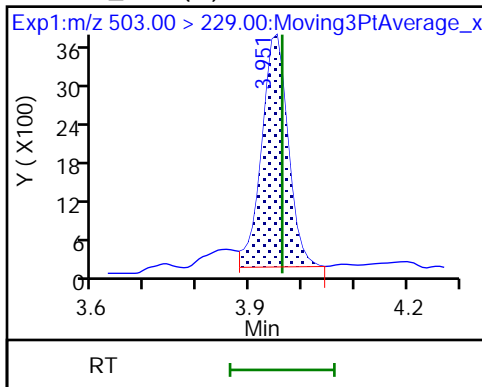
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (ND)

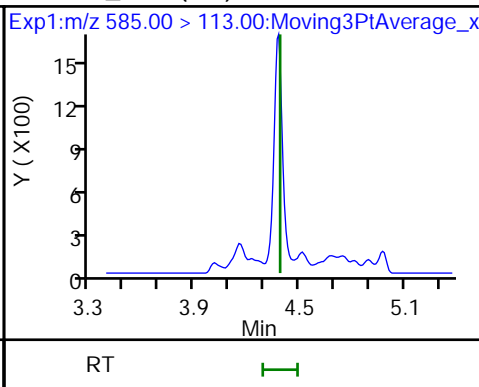
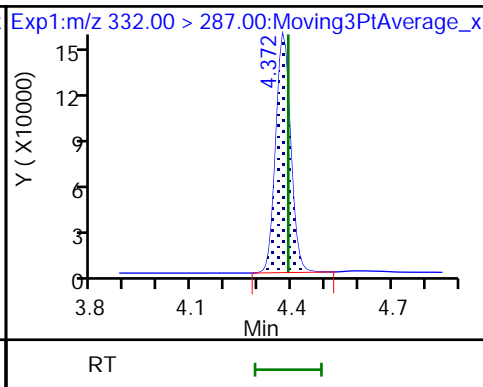
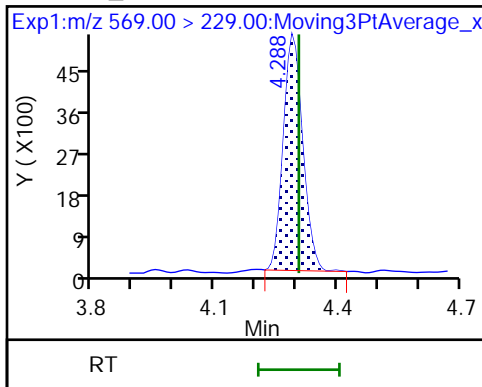
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

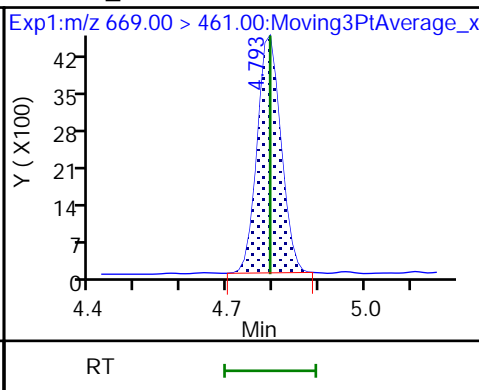
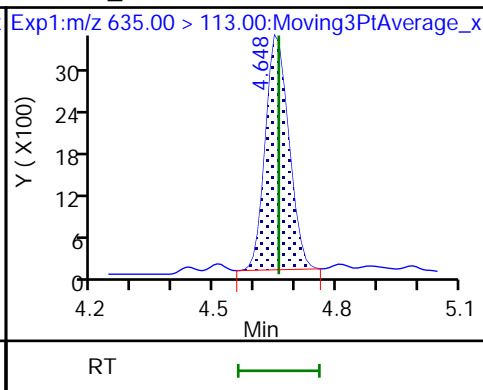
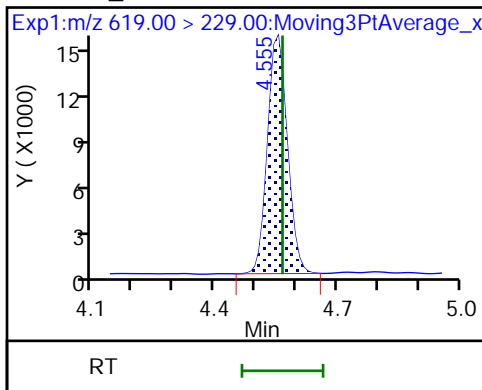
5 BFS_A4B (ND)



7 BFS_AB3

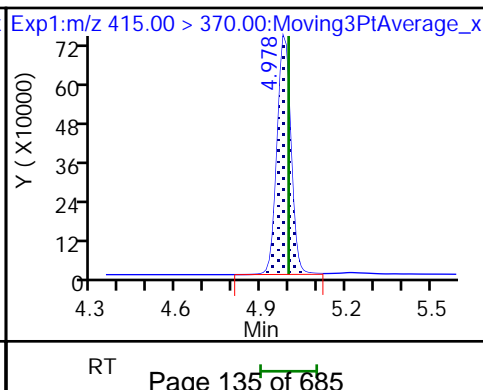
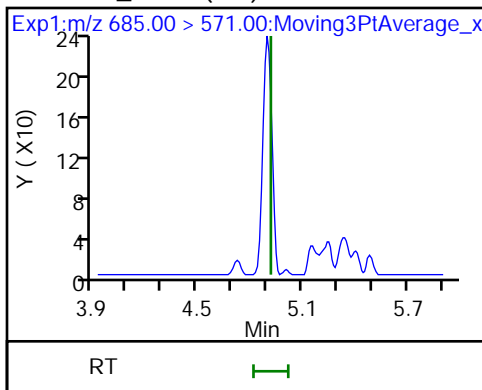
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

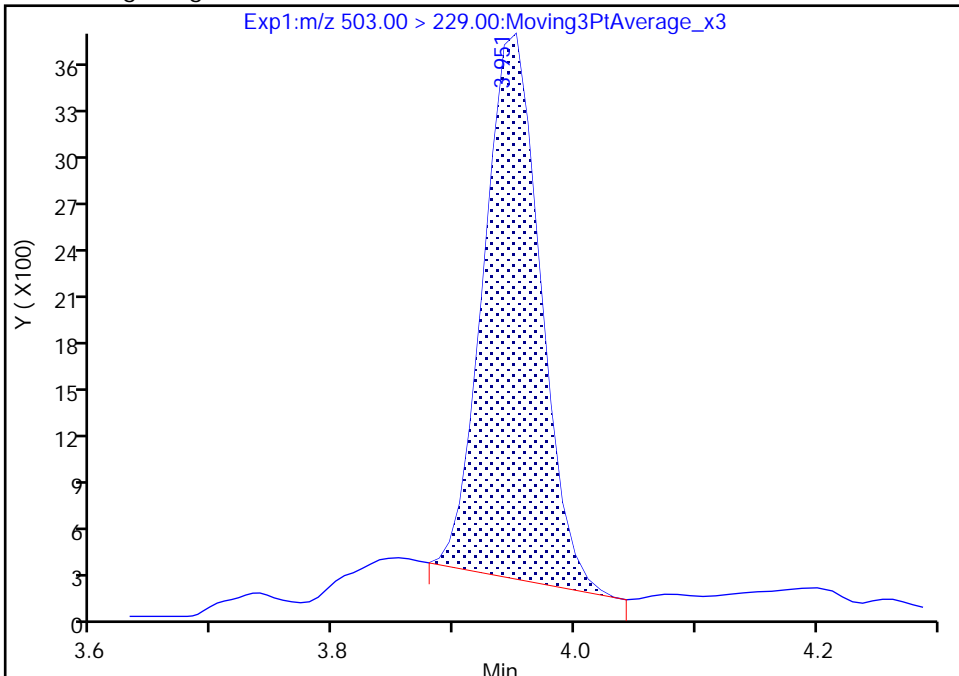
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Injection Date: 09-Aug-2022 07:49:03 Instrument ID: 30733
Lims ID: 410-90799-B-7-B Lab Sample ID: 410-90799-7
Client ID: MW-36D
Operator ID: US19_USR_INS20260 ALS Bottle#: 33 Worklist Smp#: 25
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

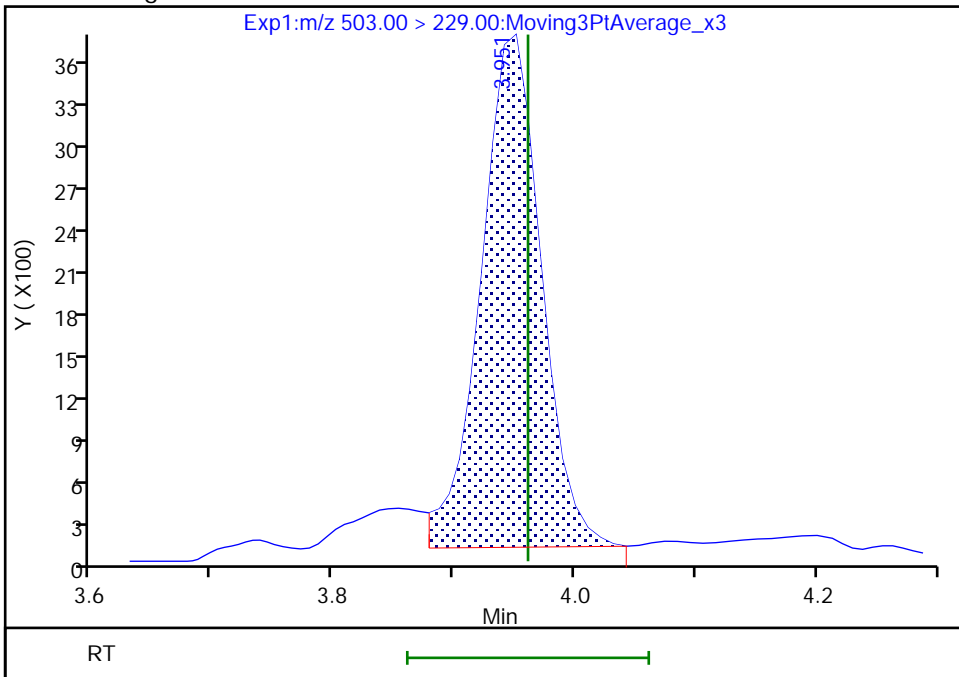
RT: 3.95
Area: 11340
Amount: 0.093954
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 12554
Amount: 0.103821
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 10:21:30
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-42D Lab Sample ID: 410-90799-8

Matrix: Water Lab File ID: 22AUG05BFS-26.d

Analysis Method: BFS Date Collected: 07/11/2022 16:15

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 282.6(mL) Date Analyzed: 08/09/2022 08:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.35
STL02887	BFS_A2B3	ND		0.97	0.35
STL02880	BFS_A3B	ND		0.53	0.18
STL02885	BFS_A3B2	ND		0.71	0.18
STL02883	BFS_A4B	ND		0.35	0.18
STL02879	BFS_AB2	ND		0.53	0.071
STL02884	BFS_AB3	ND		1.3	0.35
STL02881	BFS_B3	ND		0.62	0.27
STL02886	BFS_B4	ND		0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-26.d
 Lims ID: 410-90799-B-8-B
 Client ID: MW-42D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 08:01:37 ALS Bottle#: 34 Worklist Smp#: 26
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-8-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-026
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:21:58
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA
 332.00 > 287.00 4.379 4.389 -0.010 0.878 530647 4.59 91.9 377
 * 11 13C2 PFOA
 415.00 > 370.00 4.988 4.997 -0.009 2695107 5.00 353

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-26.d

Injection Date: 09-Aug-2022 08:01:37

Instrument ID: 30733

Lims ID: 410-90799-B-8-B

Lab Sample ID: 410-90799-8

Client ID: MW-42D

Operator ID: US19_USR_INS20260

ALS Bottle#: 34

Worklist Smp#: 26

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

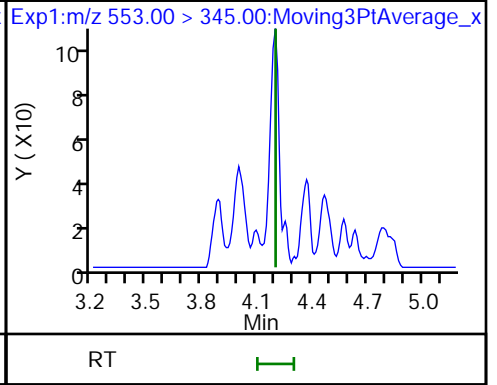
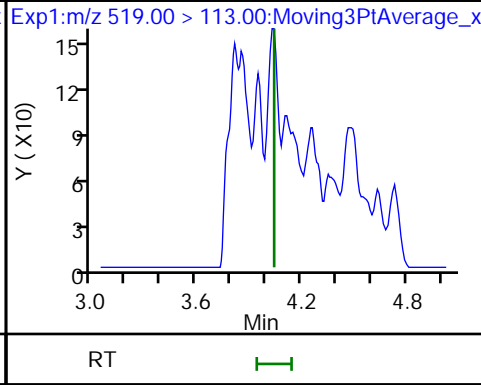
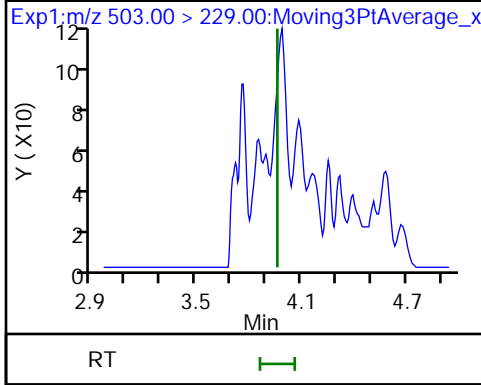
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

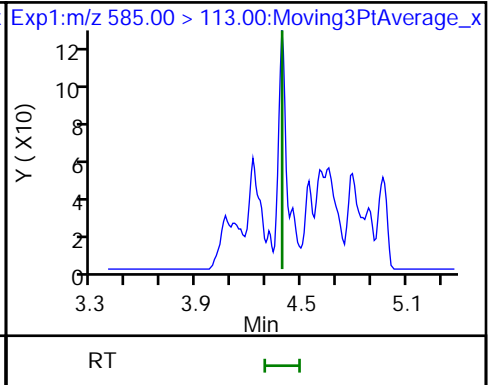
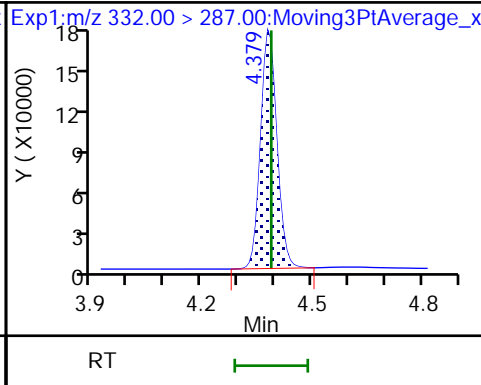
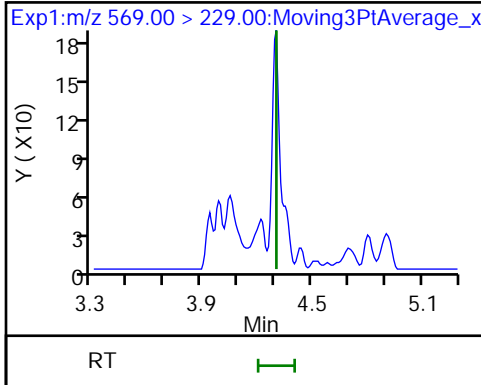
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

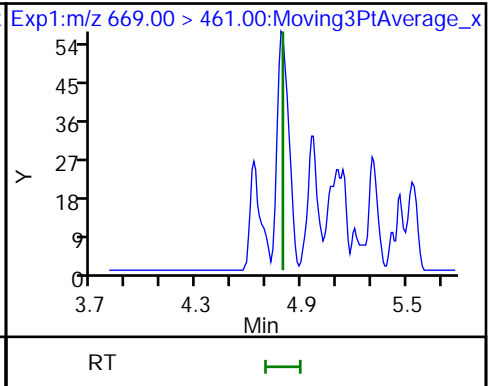
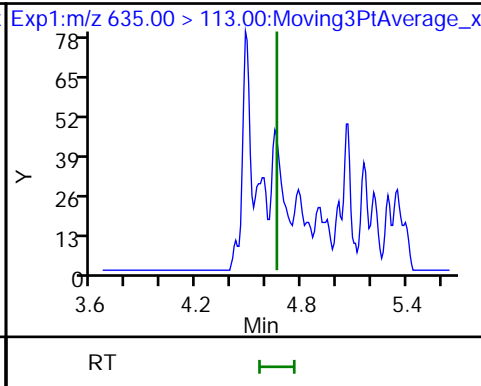
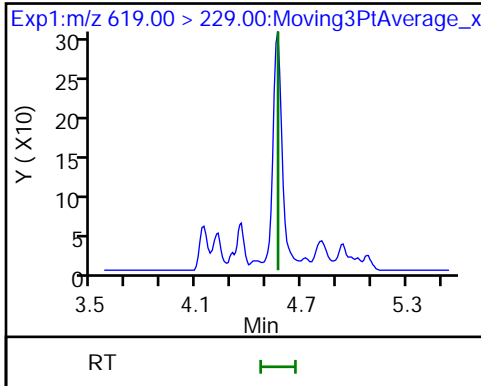
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

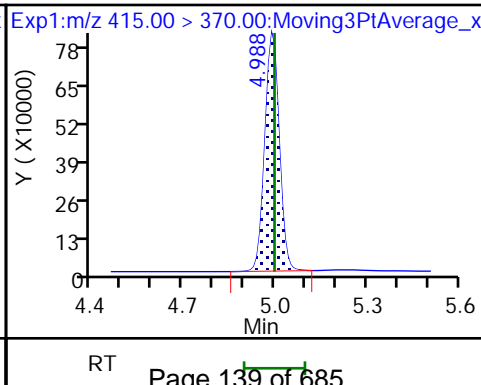
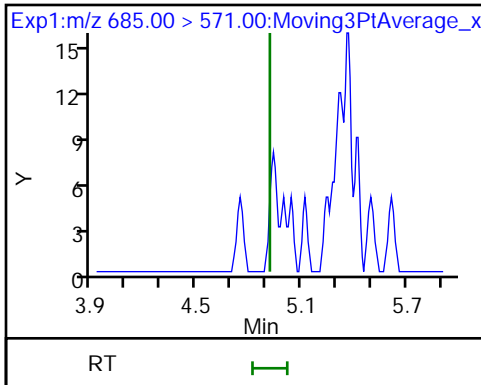
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_071122 Lab Sample ID: 410-90799-9

Matrix: Water Lab File ID: 22AUG05BFS-27.d

Analysis Method: BFS Date Collected: 07/11/2022 13:45

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 278.7(mL) Date Analyzed: 08/09/2022 08:14

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.3	0.36
STL02887	BFS_A2B3	ND		0.99	0.36
STL02880	BFS_A3B	ND		0.54	0.18
STL02885	BFS_A3B2	ND		0.72	0.18
STL02883	BFS_A4B	ND		0.36	0.18
STL02879	BFS_AB2	ND		0.54	0.072
STL02884	BFS_AB3	ND		1.3	0.36
STL02881	BFS_B3	ND		0.63	0.27
STL02886	BFS_B4	ND		0.99	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-27.d
 Lims ID: 410-90799-B-9-B
 Client ID: EB_071122
 Sample Type: Client
 Inject. Date: 09-Aug-2022 08:14:11 ALS Bottle#: 35 Worklist Smp#: 27
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-9-B
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-027
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:16 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:22:07
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.381	4.389	-0.008	0.879	640086	4.70	94.0	380
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		3179572	5.00		357

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-27.d

Injection Date: 09-Aug-2022 08:14:11

Instrument ID: 30733

Lims ID: 410-90799-B-9-B

Lab Sample ID: 410-90799-9

Client ID: EB_071122

Operator ID: US19_USR_INS20260

ALS Bottle#: 35 Worklist Smp#: 27

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

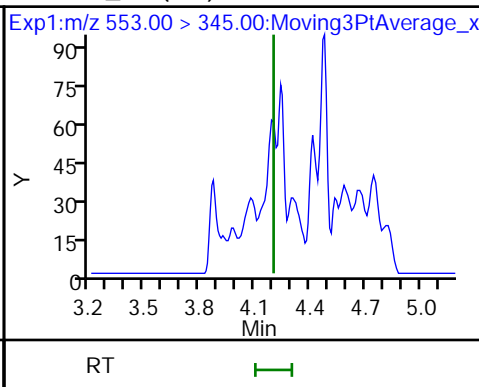
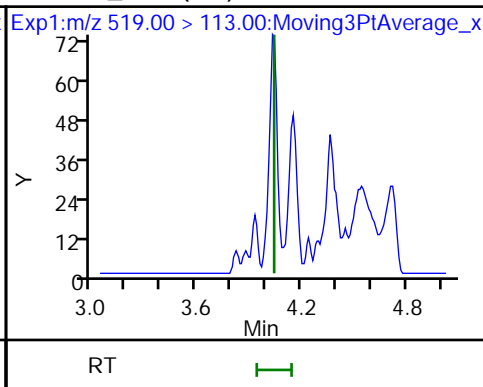
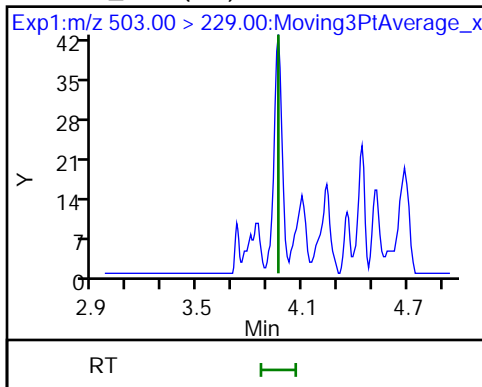
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

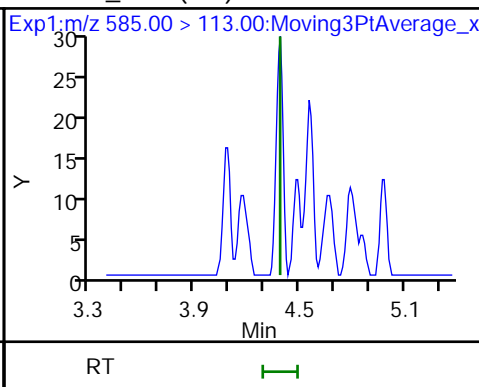
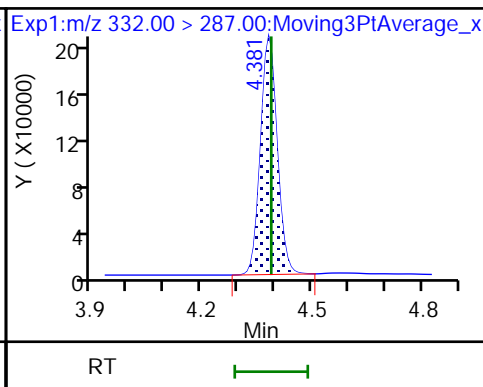
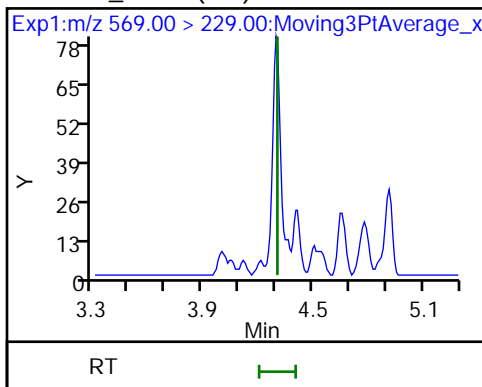
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

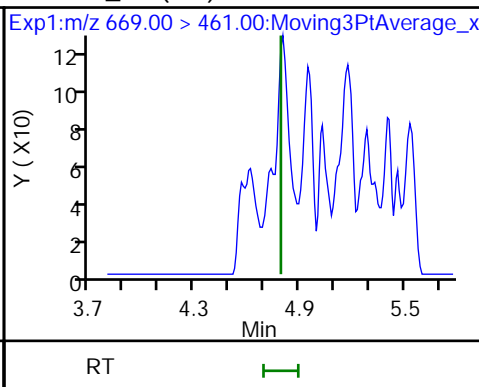
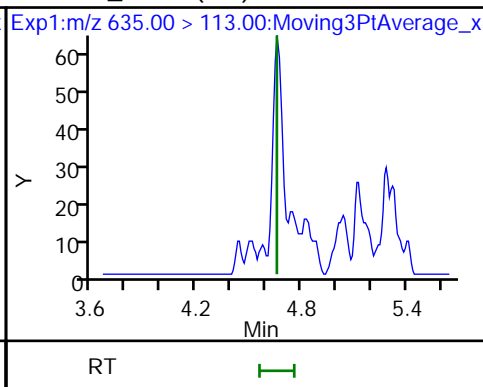
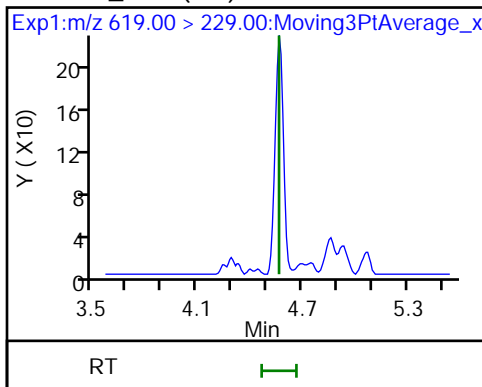
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

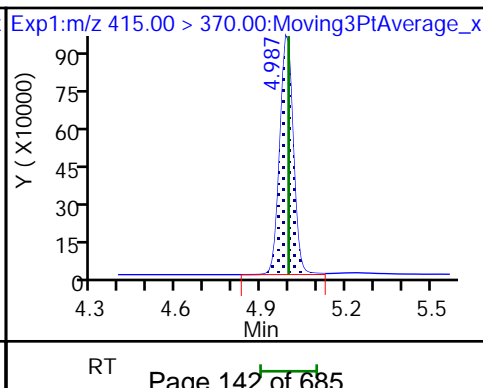
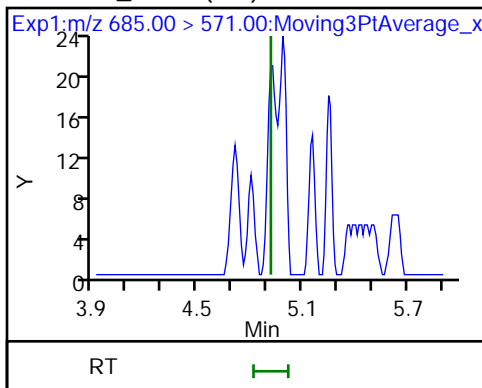
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-43I Lab Sample ID: 410-90799-10

Matrix: Water Lab File ID: 22AUG09BFS-07.d

Analysis Method: BFS Date Collected: 07/12/2022 09:25

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 299.5(mL) Date Analyzed: 08/10/2022 03:42

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	50		1.2	0.33
STL02887	BFS_A2B3	9.1		0.92	0.33
STL02880	BFS_A3B	5.7		0.50	0.17
STL02885	BFS_A3B2	12		0.67	0.17
STL02883	BFS_A4B	3.9		0.33	0.17
STL02879	BFS_AB2	15	++ cn	0.50	0.067
STL02884	BFS_AB3	110		1.3	0.33
STL02881	BFS_B3	39		0.58	0.25
STL02886	BFS_B4	33		0.92	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-07.d
 Lims ID: 410-90799-B-10-A
 Client ID: MW-43I
 Sample Type: Client
 Inject. Date: 10-Aug-2022 03:42:20 ALS Bottle#: 16 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-10-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:31:39

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.958	3.960	-0.002	0.903	666326	4.64	6495	
2 BFS_A3B	519.00 > 113.00	4.040	4.042	-0.002	0.921	275531	1.71	214	
3 BFS_B3	553.00 > 345.00	4.198	4.200	-0.002	0.957	1070564	11.7	262	
4 BFS_A2B2	569.00 > 229.00	4.302	4.304	-0.002	0.981	926914	15.0	311	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.386	4.388	-0.002	0.878	542814	5.34	107	326
5 BFS_A4B	585.00 > 113.00	4.386	4.388	-0.002	1.000	246037	1.17	350	
7 BFS_AB3	619.00 > 229.00	4.562	4.564	-0.002	1.040	2682096	32.6	456	
8 BFS_A3B2	635.00 > 113.00	4.655	4.657	-0.002	1.061	559454	3.65	352	
9 BFS_B4	669.00 > 461.00	4.803	4.805	-0.002	1.095	483747	9.76	414	
10 BFS_A2B3	685.00 > 571.00	4.905	4.907	-0.002	1.119	12664	2.72	164	
* 11 13C2 PFOA	415.00 > 370.00	4.995	4.997	-0.002		2370755	5.00	323	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-07.d

Injection Date: 10-Aug-2022 03:42:20

Instrument ID: 30733

Lims ID: 410-90799-B-10-A

Lab Sample ID: 410-90799-10

Client ID: MW-43I

Operator ID: US19_USR_INS20260

ALS Bottle#: 16

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

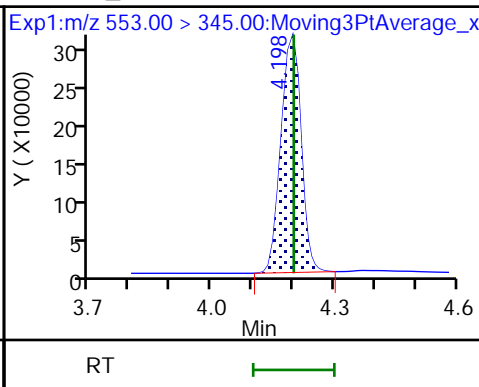
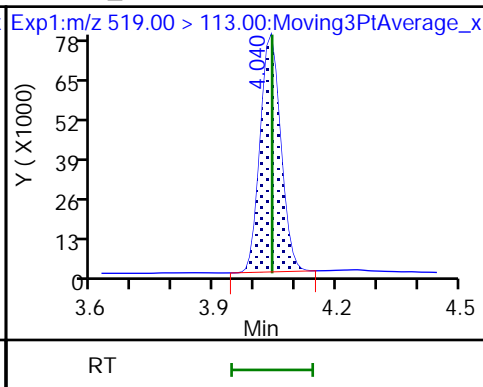
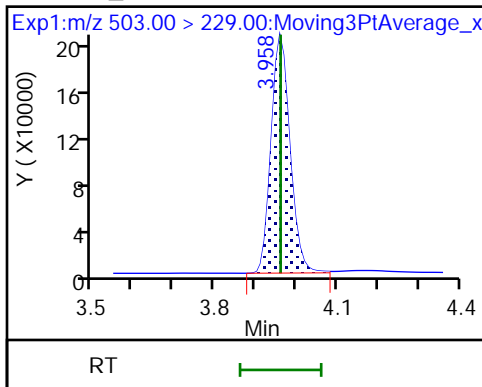
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

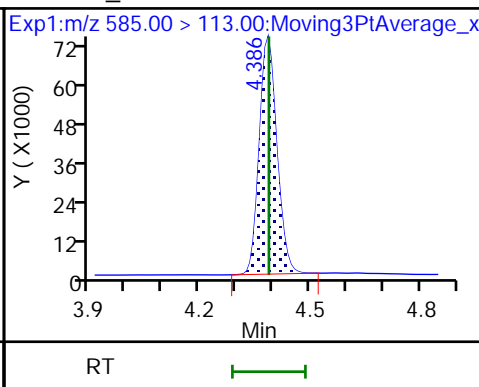
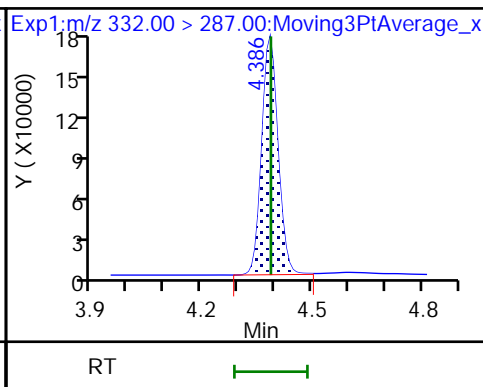
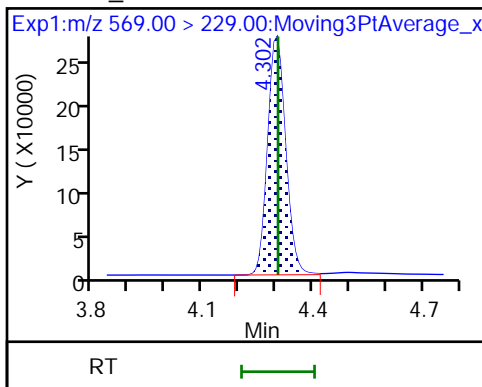
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

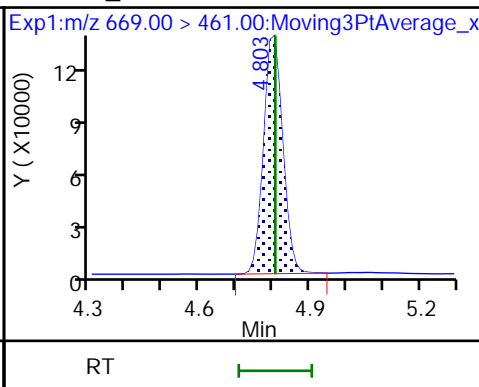
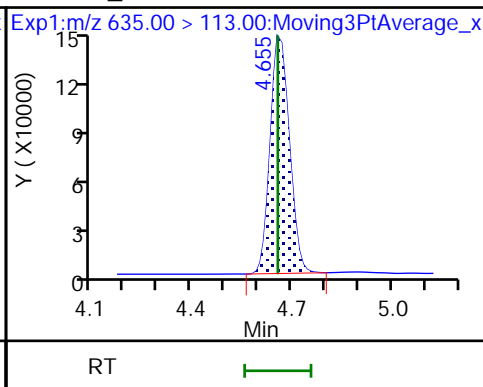
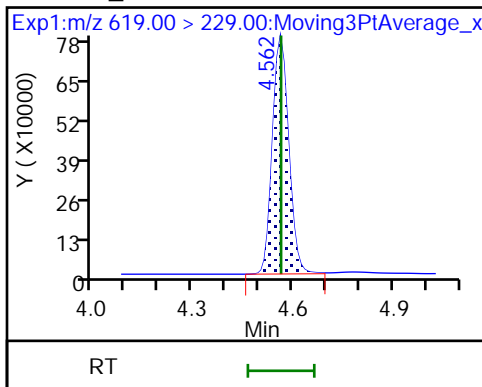
5 BFS_A4B



7 BFS_AB3

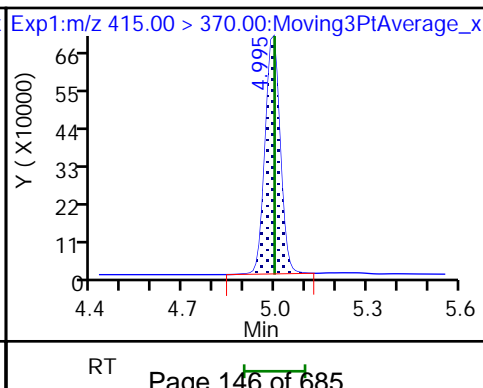
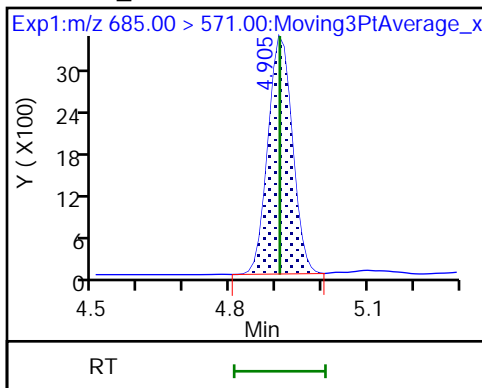
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Client Sample ID: MW-43I RE

Lab Sample ID: 410-90799-10 RE

Matrix: Water

Lab File ID: 22AUG13BFS-20.d

Analysis Method: BFS

Date Collected: 07/12/2022 09:25

Extraction Method: 3535

Date Extracted: 08/11/2022 10:35

Sample wt/vol: 298.5(mL)

Date Analyzed: 08/14/2022 06:35

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 285708

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	41	H	1.2	0.34
STL02887	BFS_A2B3	8.3	H	0.92	0.34
STL02880	BFS_A3B	4.6	H	0.50	0.17
STL02885	BFS_A3B2	9.6	H	0.67	0.17
STL02883	BFS_A4B	3.5	H	0.34	0.17
STL02879	BFS_AB2	12	H	0.50	0.067
STL02884	BFS_AB3	86	H	1.3	0.34
STL02881	BFS_B3	34	H	0.59	0.25
STL02886	BFS_B4	26	H	0.92	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-20.d
 Lims ID: 410-90799-C-10-A
 Client ID: MW-43I
 Sample Type: Client
 Inject. Date: 14-Aug-2022 06:35:28 ALS Bottle#: 16 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-C-10-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:38:16

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	678689	3.71	9888	
2 BFS_A3B	519.00 > 113.00	4.002	4.010	-0.008	0.920	279397	1.37	405	
3 BFS_B3	553.00 > 345.00	4.165	4.163	0.002	0.958	1144699	10.1	765	
4 BFS_A2B2	569.00 > 229.00	4.266	4.263	0.003	0.981	1000709	12.2	1002	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.349	4.346	0.003	0.877	529280	5.10	102	1067
5 BFS_A4B	585.00 > 113.00	4.349	4.355	-0.006	1.000	266302	1.05	630	
7 BFS_AB3	619.00 > 229.00	4.528	4.525	0.003	1.041	2907710	25.7	2031	
8 BFS_A3B2	635.00 > 113.00	4.630	4.627	0.003	1.064	624850	2.88	807	
9 BFS_B4	669.00 > 461.00	4.765	4.760	0.005	1.096	551103	7.75	1017	
10 BFS_A2B3	685.00 > 571.00	4.879	4.874	0.005	1.122	17508	2.47	344	
* 11 13C2 PFOA	415.00 > 370.00	4.961	4.958	0.003		2584564	5.00	848	

QC Flag Legend

Processing Flags

Reagents:

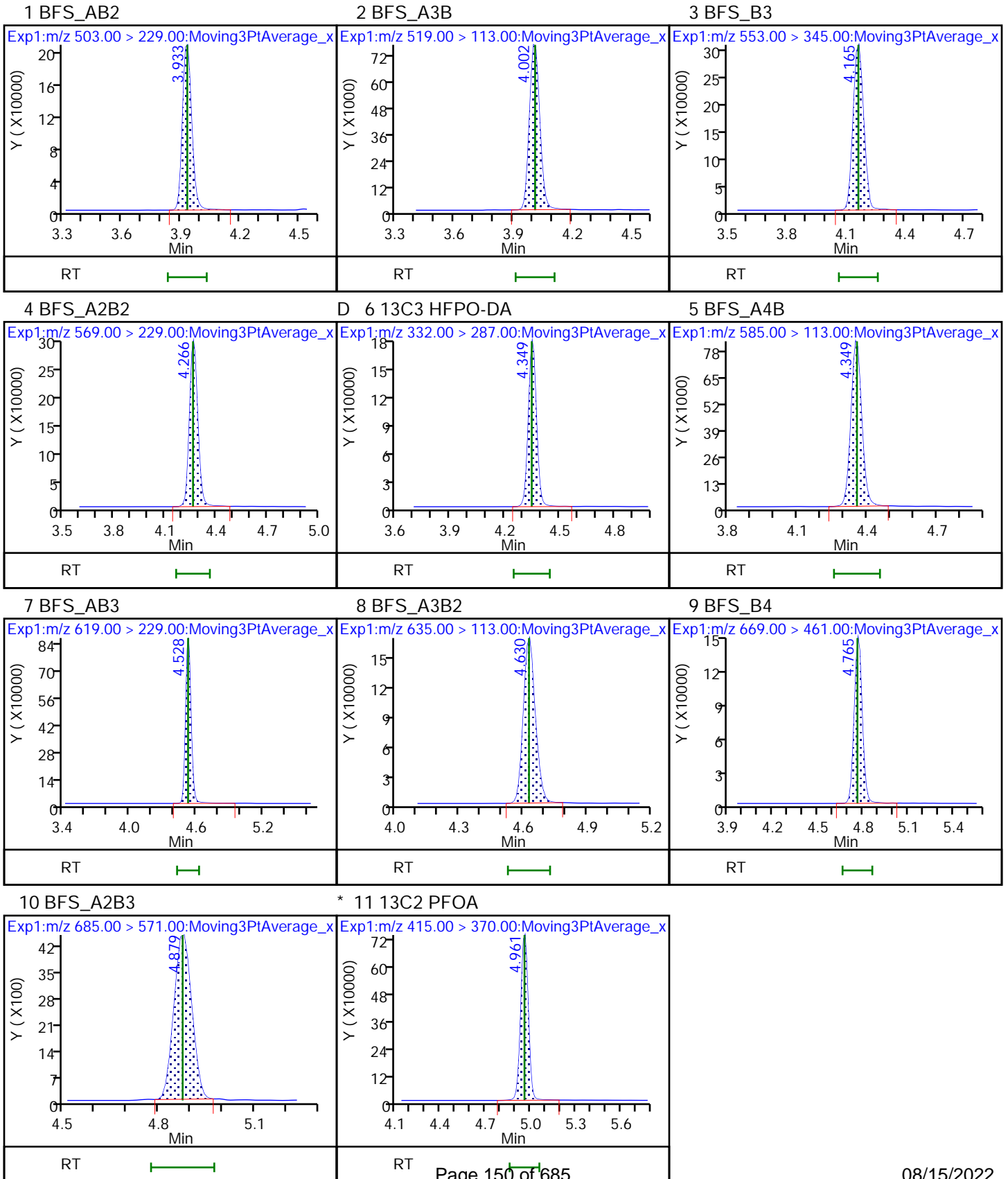
PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-20.d
Injection Date: 14-Aug-2022 06:35:28 Instrument ID: 30733
Lims ID: 410-90799-C-10-A Lab Sample ID: 410-90799-10
Client ID: MW-43I
Operator ID: US19_USR_INS20260 ALS Bottle#: 16 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-43D Lab Sample ID: 410-90799-11

Matrix: Water Lab File ID: 22AUG05BFS-34.d

Analysis Method: BFS Date Collected: 07/12/2022 09:25

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 297.9(mL) Date Analyzed: 08/09/2022 09:42

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	5.4		1.2	0.34
STL02887	BFS_A2B3	ND	cn	0.92	0.34
STL02880	BFS_A3B	0.41	J	0.50	0.17
STL02885	BFS_A3B2	0.96		0.67	0.17
STL02883	BFS_A4B	0.38		0.34	0.17
STL02879	BFS_AB2	1.3	++ cn	0.50	0.067
STL02884	BFS_AB3	11		1.3	0.34
STL02881	BFS_B3	4.0		0.59	0.25
STL02886	BFS_B4	2.8		0.92	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-34.d
 Lims ID: 410-90799-B-11-A
 Client ID: MW-43D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 09:42:20 ALS Bottle#: 41 Worklist Smp#: 34
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-11-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-034
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:31:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:28:32
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.902	65206	0.3859	1307	
2 BFS_A3B	519.00 > 113.00	4.044	4.042	0.002	0.921	22753	0.1230	56.8	
3 BFS_B3	553.00 > 345.00	4.202	4.200	0.002	0.957	126423	1.19	244	
4 BFS_A2B2	569.00 > 229.00	4.306	4.305	0.001	0.981	121118	1.60	239	
5 BFS_A4B	585.00 > 113.00	4.390	4.388	0.002	1.000	27366	0.1131	134	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.390	4.388	0.002	0.879	645135	5.60	112	348
7 BFS_AB3	619.00 > 229.00	4.566	4.565	0.001	1.040	325412	3.32	426	
8 BFS_A3B2	635.00 > 113.00	4.673	4.658	0.015	1.065	51138	0.2846	246	
9 BFS_B4	669.00 > 461.00	4.804	4.805	-0.001	1.094	49490	0.8344	262	
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2689220	5.00	321	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-34.d

Injection Date: 09-Aug-2022 09:42:20

Instrument ID: 30733

Lims ID: 410-90799-B-11-A

Lab Sample ID: 410-90799-11

Client ID: MW-43D

Operator ID: US19_USR_INS20260

ALS Bottle#: 41

Worklist Smp#: 34

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

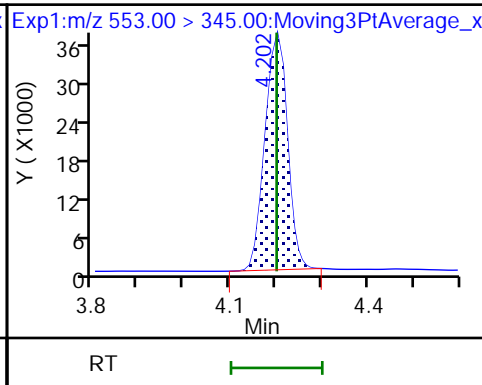
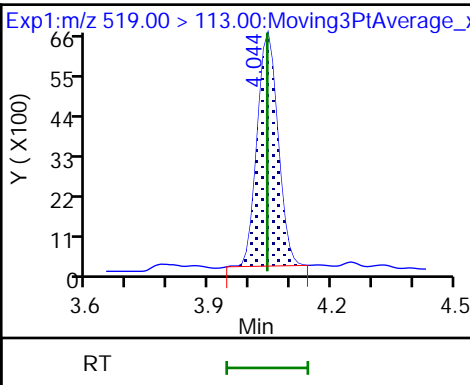
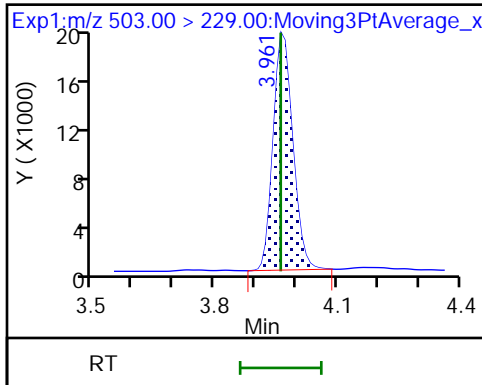
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

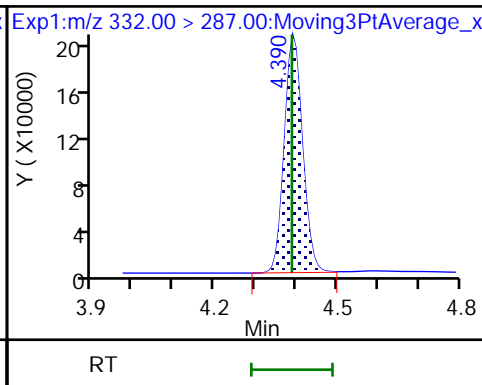
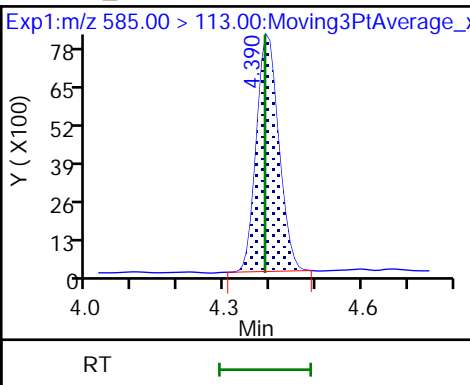
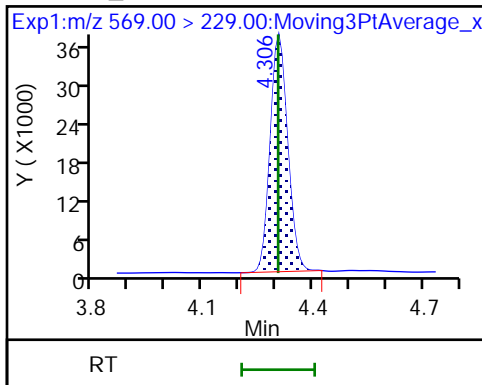
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B

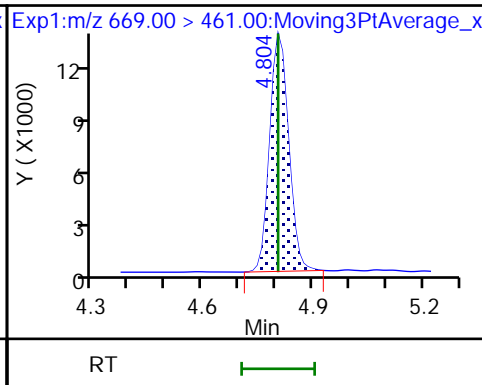
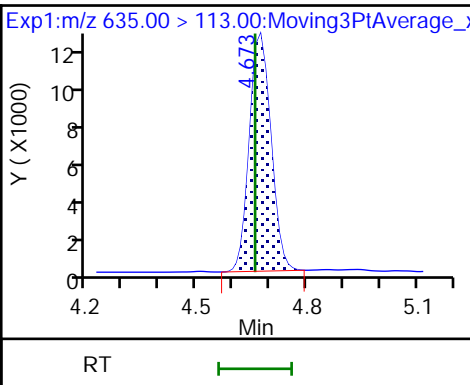
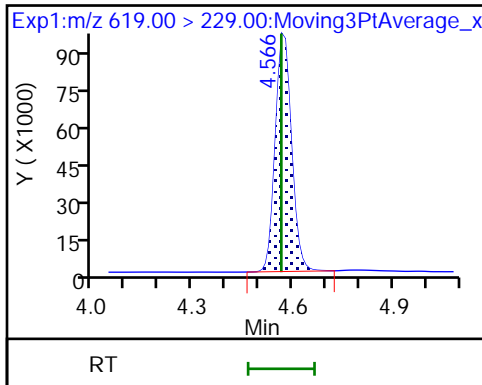
D 6 13C3 HFPO-DA



7 BFS_AB3

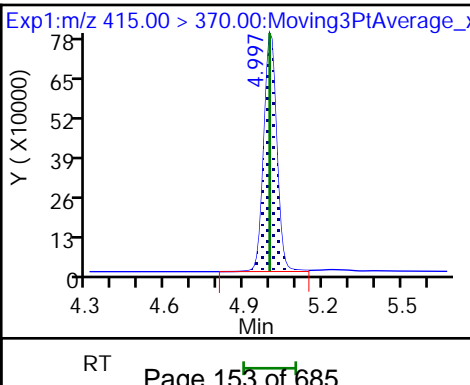
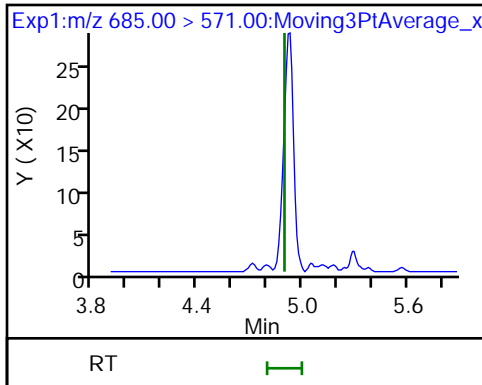
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-43D RE Lab Sample ID: 410-90799-11 RE

Matrix: Water Lab File ID: 22AUG13BFS-21.d

Analysis Method: BFS Date Collected: 07/12/2022 09:25

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 316(mL) Date Analyzed: 08/14/2022 06:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	6.1	H	1.1	0.32
STL02887	BFS_A2B3	2.0	H	0.87	0.32
STL02880	BFS_A3B	0.41	J H	0.47	0.16
STL02885	BFS_A3B2	1.4	H	0.63	0.16
STL02883	BFS_A4B	0.48	H	0.32	0.16
STL02879	BFS_AB2	1.2	H	0.47	0.063
STL02884	BFS_AB3	15	H	1.2	0.32
STL02881	BFS_B3	4.3	H	0.55	0.24
STL02886	BFS_B4	5.9	H	0.87	0.32

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-21.d
 Lims ID: 410-90799-C-11-A
 Client ID: MW-43D
 Sample Type: Client
 Inject. Date: 14-Aug-2022 06:48:05 ALS Bottle#: 17 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-C-11-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:38:38
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.905	77048	0.3947	1687	
2 BFS_A3B	519.00 > 113.00	4.000	4.010	-0.010	0.920	26746	0.1296	80.8	
3 BFS_B3	553.00 > 345.00	4.163	4.163	0.0	0.958	168532	1.36	480	
4 BFS_A2B2	569.00 > 229.00	4.263	4.263	0.0	0.981	167562	1.93	638	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.347	4.346	0.001	0.877	572358	5.25	105	889
5 BFS_A4B	585.00 > 113.00	4.347	4.355	-0.008	1.000	41348	0.1510	316	
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.041	593116	4.84	1051	
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.064	104309	0.4466	564	
9 BFS_B4	669.00 > 461.00	4.761	4.760	0.001	1.095	144713	1.88	696	
10 BFS_A2B3	685.00 > 571.00	4.875	4.874	0.001	1.122	4809	0.6259	169	M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2715989	5.00	932	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-21.d

Injection Date: 14-Aug-2022 06:48:05

Instrument ID: 30733

Lims ID: 410-90799-C-11-A

Lab Sample ID: 410-90799-11

Client ID: MW-43D

Operator ID: US19_USR_INS20260

ALS Bottle#: 17

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

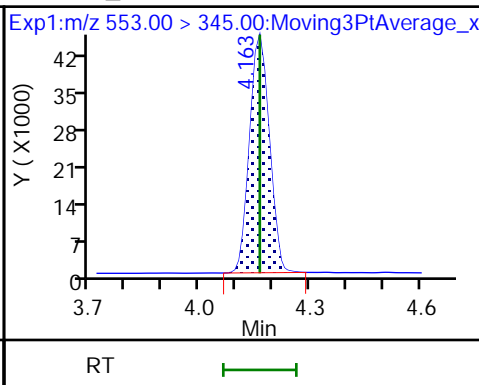
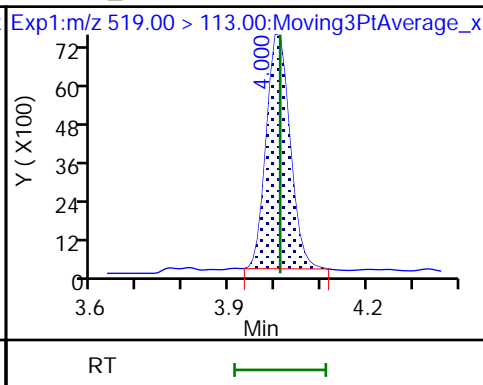
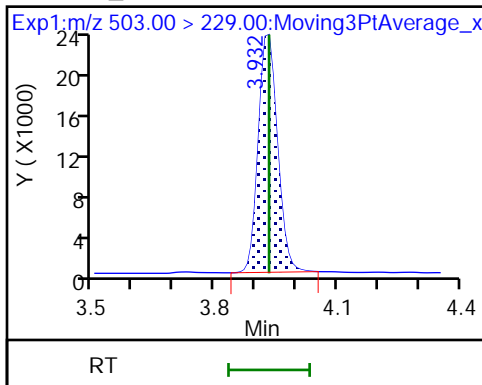
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

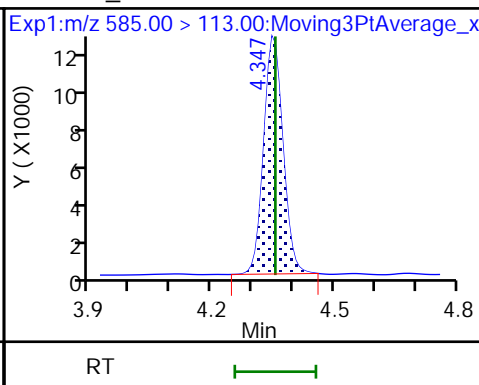
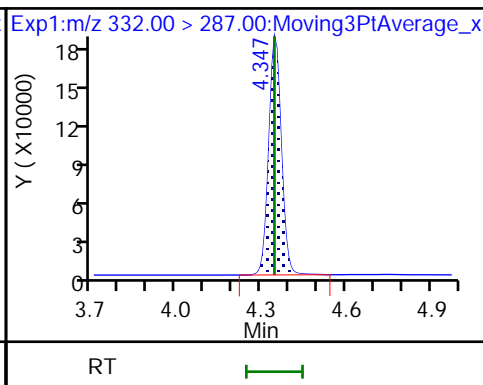
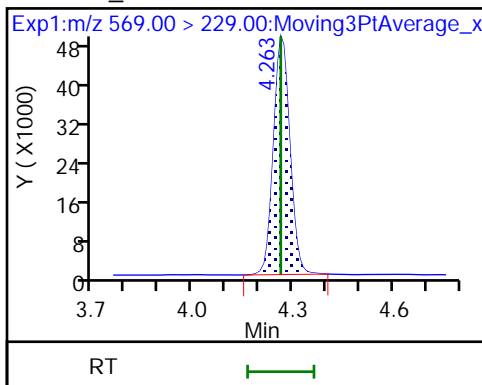
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

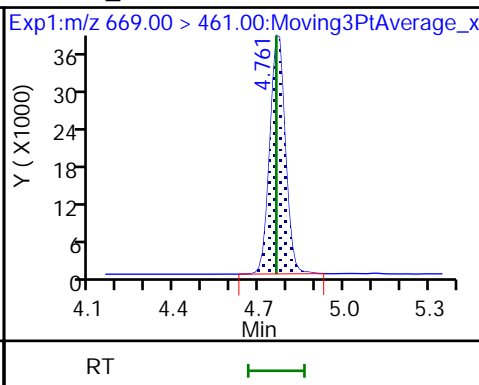
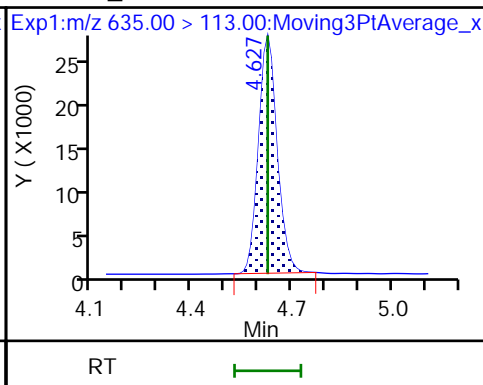
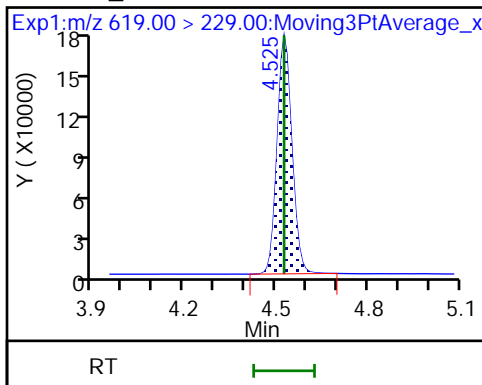
5 BFS_A4B



7 BFS_AB3

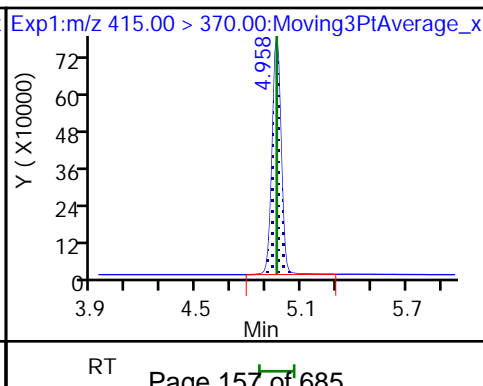
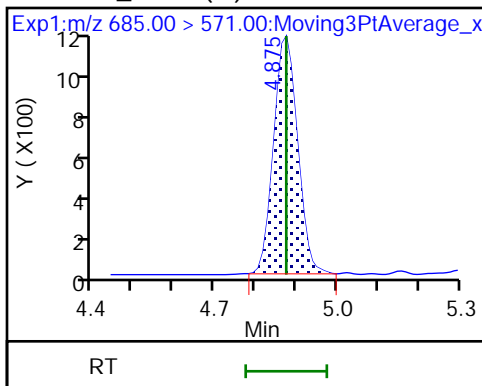
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

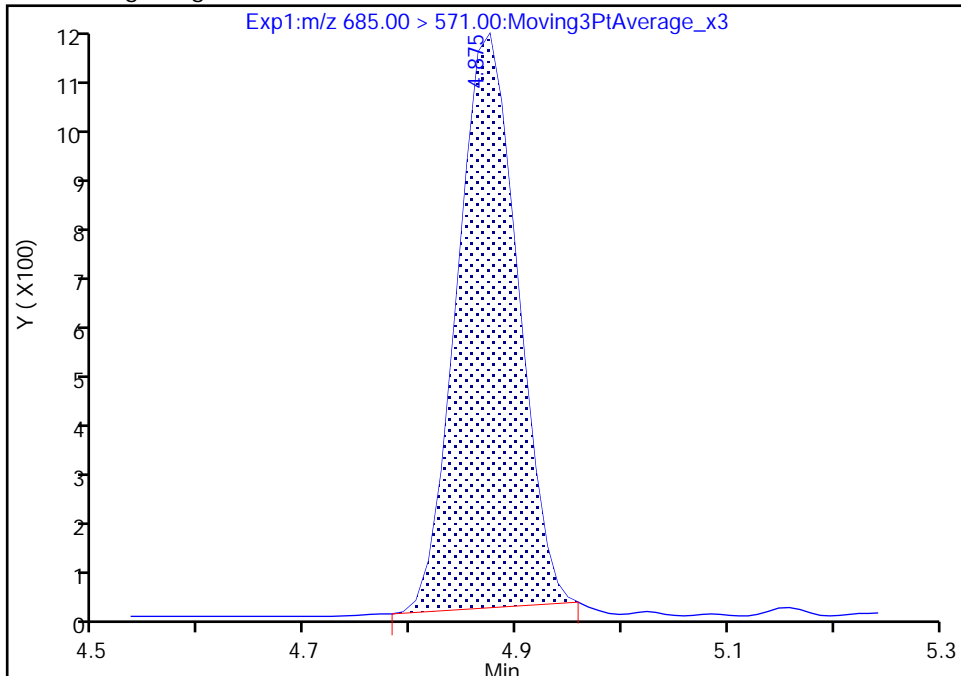
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-21.d
Injection Date: 14-Aug-2022 06:48:05 Instrument ID: 30733
Lims ID: 410-90799-C-11-A Lab Sample ID: 410-90799-11
Client ID: MW-43D
Operator ID: US19_USR_INS20260 ALS Bottle#: 17 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

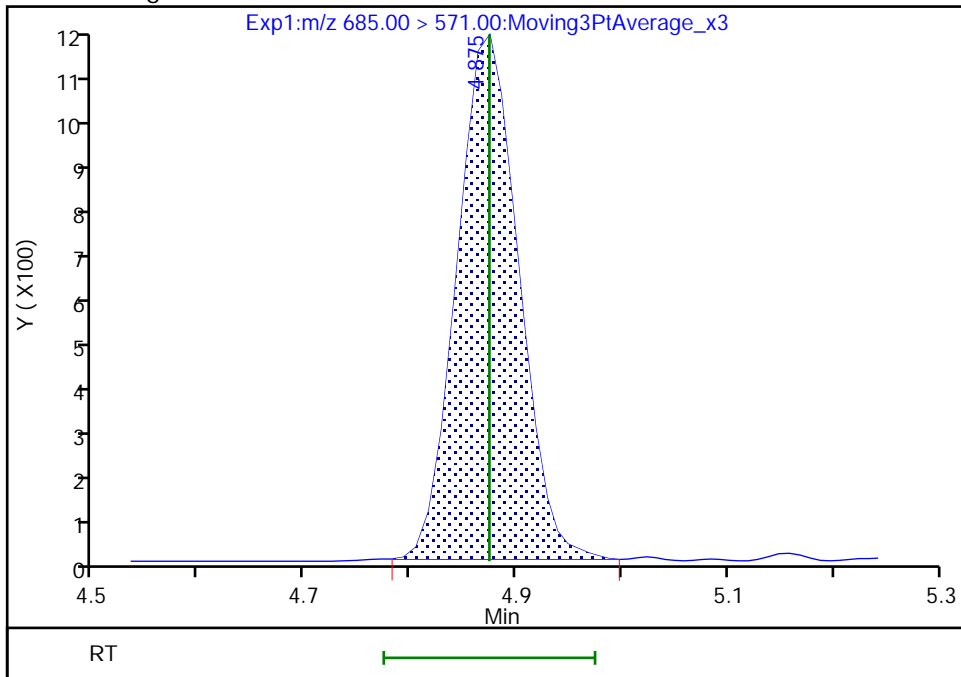
RT: 4.87
Area: 4650
Amount: 0.605137
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 4809
Amount: 0.625860
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:38:31
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19D Lab Sample ID: 410-90799-12

Matrix: Water Lab File ID: 22AUG09BFS-09.d

Analysis Method: BFS Date Collected: 07/12/2022 10:30

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 300.2 (mL) Date Analyzed: 08/10/2022 04:07

Con. Extract Vol.: 1 (mL) Dilution Factor: 10

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	2200		12	3.3
STL02887	BFS_A2B3	340		9.2	3.3
STL02880	BFS_A3B	300		5.0	1.7
STL02885	BFS_A3B2	500		6.7	1.7
STL02883	BFS_A4B	180		3.3	1.7
STL02879	BFS_AB2	640	*+ cn	5.0	0.67
STL02884	BFS_AB3	3800		12	3.3
STL02881	BFS_B3	1400		5.8	2.5
STL02886	BFS_B4	1300		9.2	3.3

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	114		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-09.d
 Lims ID: 410-90799-B-12-A
 Client ID: MW-19D
 Sample Type: Client
 Inject. Date: 10-Aug-2022 04:07:28 ALS Bottle#: 18 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-B-12-A 10x
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:32:03

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.960	-0.008	0.904	3392436	19.3	6854	
2 BFS_A3B	519.00 > 113.00	4.033	4.042	-0.009	0.922	1745981	8.87	163	
3 BFS_B3	553.00 > 345.00	4.190	4.200	-0.010	0.958	4768170	43.2	150	
4 BFS_A2B2	569.00 > 229.00	4.290	4.304	-0.014	0.981	4793670	64.8	190	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.373	4.388	-0.015	0.877	65257	0.5705	114	176
5 BFS_A4B	585.00 > 113.00	4.382	4.388	-0.006	1.002	1388111	5.47	209	
7 BFS_AB3	619.00 > 229.00	4.556	4.564	-0.008	1.042	11210698	115.5	226	
8 BFS_A3B2	635.00 > 113.00	4.660	4.657	0.003	1.065	2766010	15.1	216	
9 BFS_B4	669.00 > 461.00	4.792	4.805	-0.013	1.096	2393106	40.2	250	
10 BFS_A2B3	685.00 > 571.00	4.896	4.907	-0.011	1.120	60061	10.4	184	
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		2669475	5.00	290	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-09.d

Injection Date: 10-Aug-2022 04:07:28

Instrument ID: 30733

Lims ID: 410-90799-B-12-A

Lab Sample ID: 410-90799-12

Client ID: MW-19D

Operator ID: US19_USR_INS20260

ALS Bottle#: 18

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

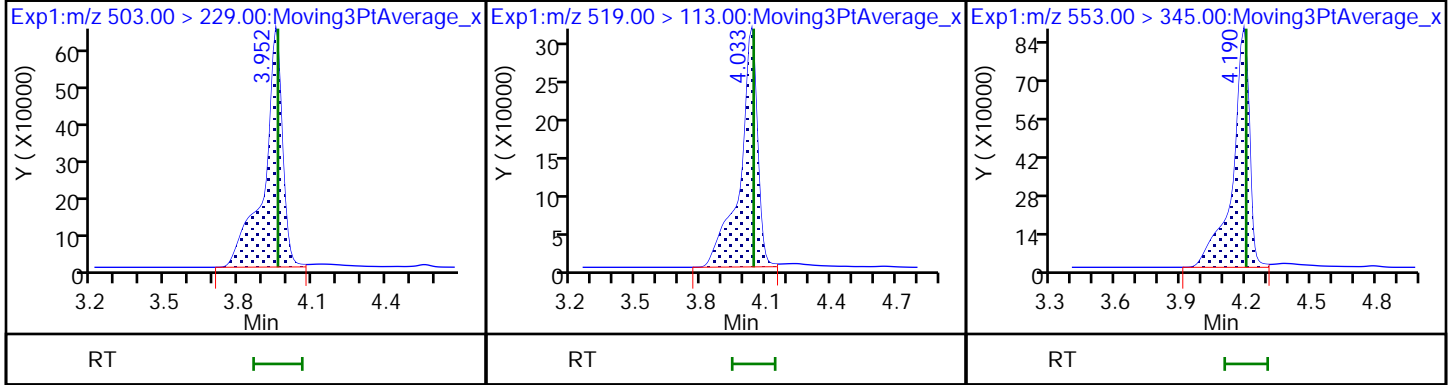
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

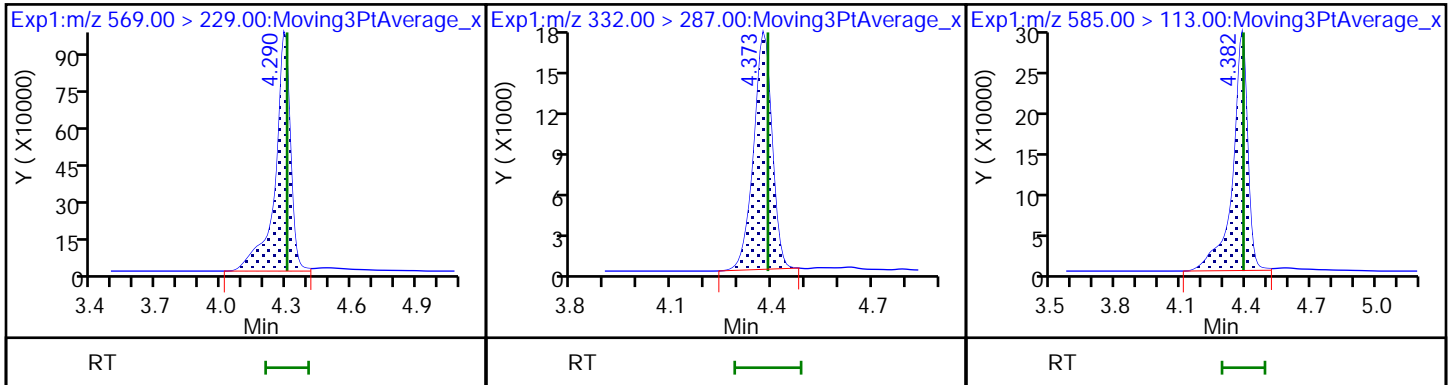
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

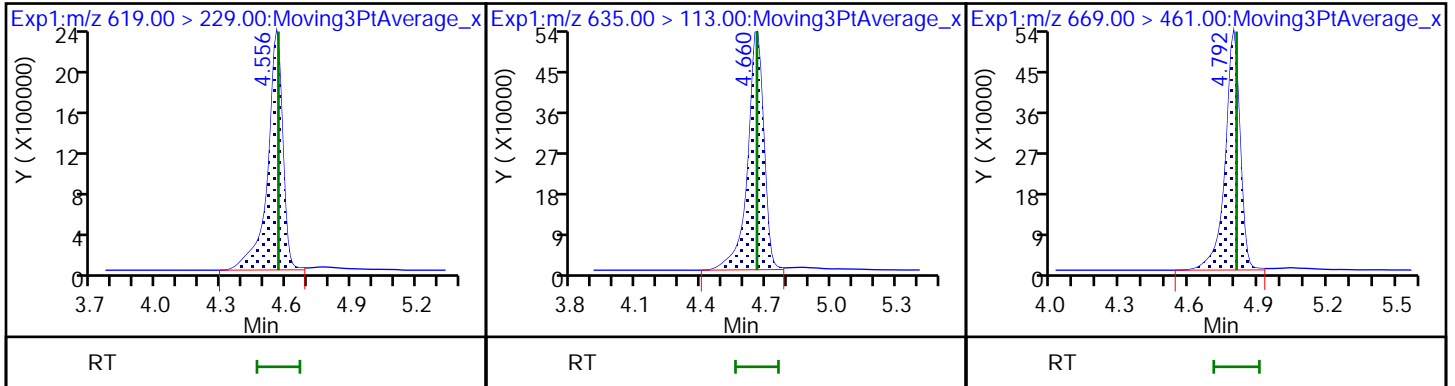
5 BFS_A4B



7 BFS_AB3

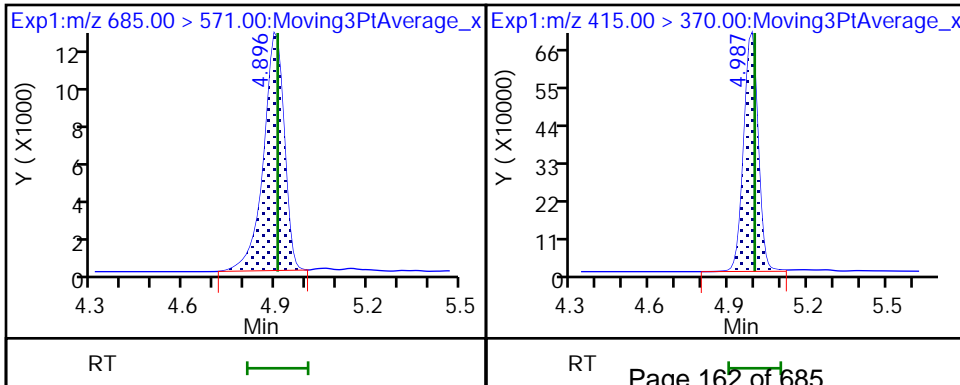
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Client Sample ID: MW-19D RE

Lab Sample ID: 410-90799-12 RE

Matrix: Water

Lab File ID: 22AUG15BFS-07.d

Analysis Method: BFS

Date Collected: 07/12/2022 10:30

Extraction Method: 3535

Date Extracted: 08/11/2022 10:35

Sample wt/vol: 292.3(mL)

Date Analyzed: 08/15/2022 09:38

Con. Extract Vol.: 1(mL)

Dilution Factor: 10

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 285953

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1700	H	12	3.4
STL02887	BFS_A2B3	270	H	9.4	3.4
STL02880	BFS_A3B	250	H	5.1	1.7
STL02885	BFS_A3B2	390	H	6.8	1.7
STL02883	BFS_A4B	160	H	3.4	1.7
STL02879	BFS_AB2	540	H	5.1	0.68
STL02884	BFS_AB3	3000	H	13	3.4
STL02881	BFS_B3	1200	H	6.0	2.6
STL02886	BFS_B4	1100	H	9.4	3.4

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	141		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-07.d
 Lims ID: 410-90799-C-12-A
 Client ID: MW-19D
 Sample Type: Client
 Inject. Date: 15-Aug-2022 09:38:21 ALS Bottle#: 44 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-C-12-A 10x
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:12 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:30:22
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.934	3.932	0.002	0.903	4309379	15.7	14712	
2 BFS_A3B	519.00 > 113.00	4.013	4.008	0.005	0.921	2262994	7.35	448	
3 BFS_B3	553.00 > 345.00	4.165	4.161	0.004	0.956	6050063	35.5	417	
4 BFS_A2B2	569.00 > 229.00	4.274	4.267	0.007	0.981	6089091	49.6	624	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.358	4.348	0.010	0.878	79487	0.7071	141	393
5 BFS_A4B	585.00 > 113.00	4.366	4.353	0.013	1.002	1818155	4.79	640	
7 BFS_AB3	619.00 > 229.00	4.537	4.525	0.012	1.041	14524621	87.2	1045	
8 BFS_A3B2	635.00 > 113.00	4.640	4.627	0.013	1.065	3646542	11.3	726	
9 BFS_B4	669.00 > 461.00	4.776	4.762	0.014	1.096	3294706	31.2	825	
10 BFS_A2B3	685.00 > 571.00	4.890	4.870	0.020	1.122	85398	8.01	443	
* 11 13C2 PFOA	415.00 > 370.00	4.961	4.958	0.003		2801778	5.00	854	

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-07.d

Injection Date: 15-Aug-2022 09:38:21

Instrument ID: 30733

Lims ID: 410-90799-C-12-A

Lab Sample ID: 410-90799-12

Client ID: MW-19D

Operator ID: US19_USR_INS20260

ALS Bottle#: 44 Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

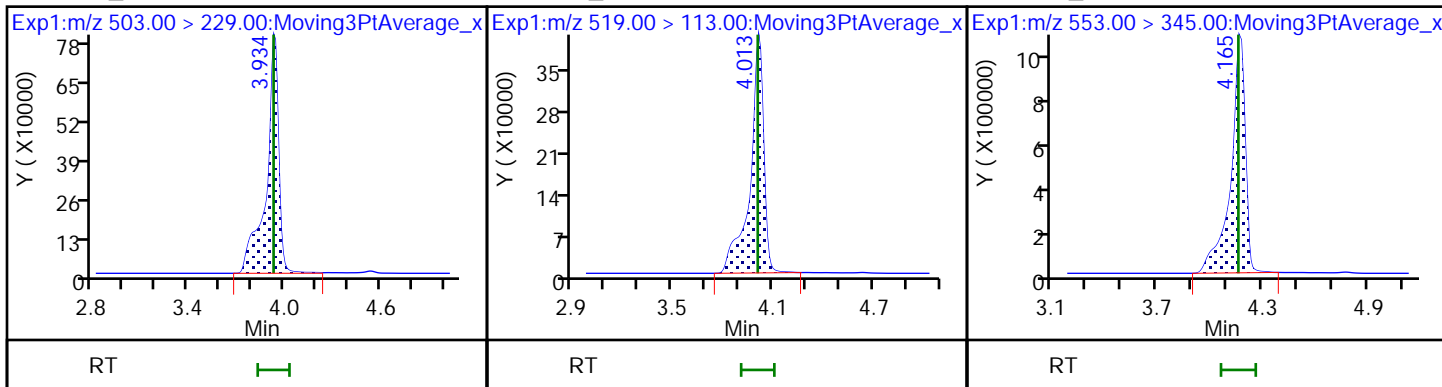
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

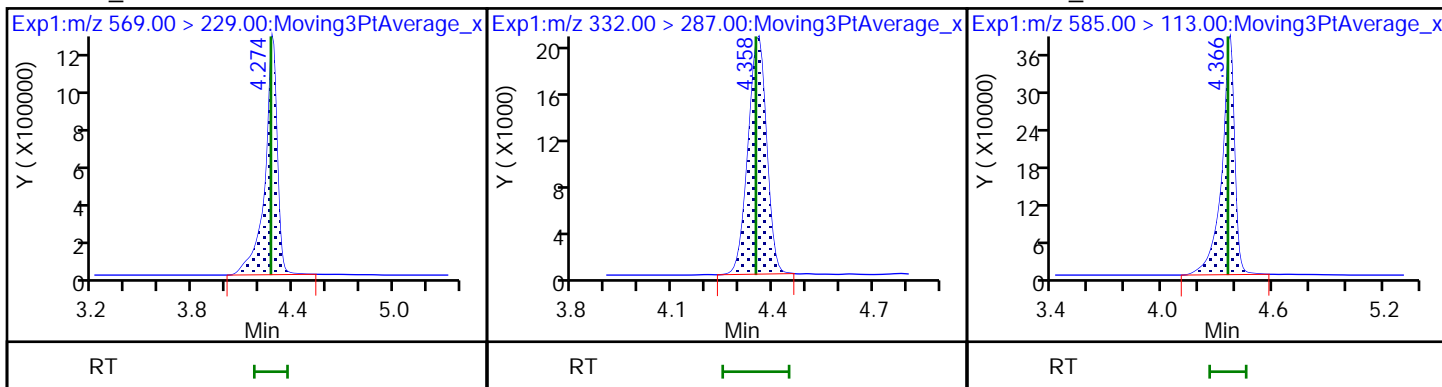
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

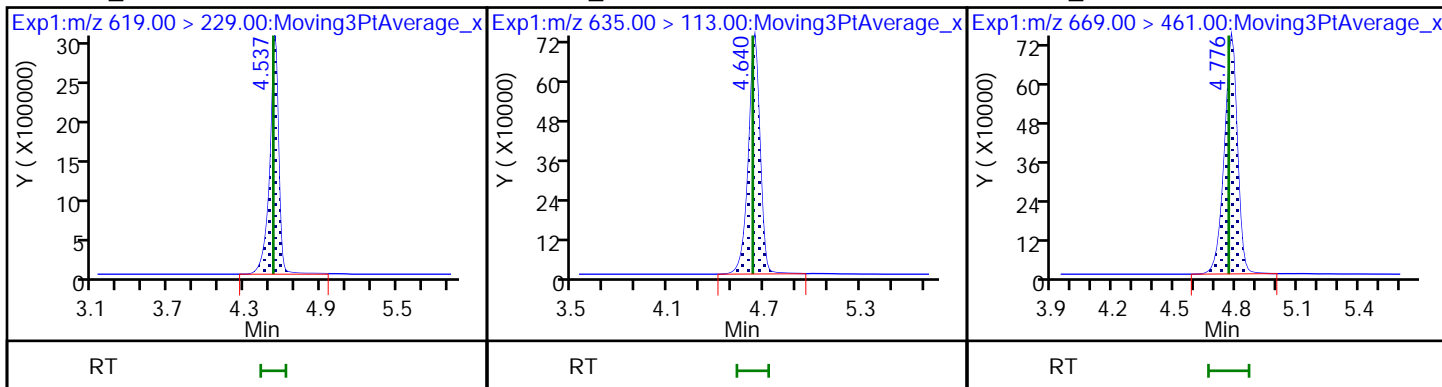
5 BFS_A4B



7 BFS_AB3

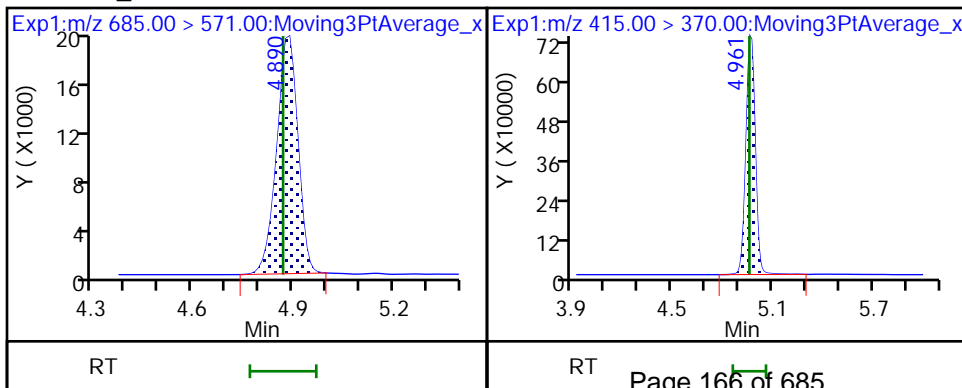
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Client Sample ID: MW-19I RE

Lab Sample ID: 410-90799-13 RE

Matrix: Water

Lab File ID: 22AUG13BFS-23.d

Analysis Method: BFS

Date Collected: 07/12/2022 11:10

Extraction Method: 3535

Date Extracted: 08/11/2022 10:35

Sample wt/vol: 275.8(mL)

Date Analyzed: 08/14/2022 07:13

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 285708

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	710	H	1.3	0.36
STL02887	BFS_A2B3	5.4	H	1.0	0.36
STL02880	BFS_A3B	95	H	0.54	0.18
STL02885	BFS_A3B2	39	H	0.73	0.18
STL02883	BFS_A4B	36	H	0.36	0.18
STL02879	BFS_AB2	370	H E	0.54	0.073
STL02884	BFS_AB3	720	H	1.4	0.36
STL02881	BFS_B3	860	H	0.63	0.27
STL02886	BFS_B4	62	H	1.0	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	165	*5+	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-23.d
 Lims ID: 410-90799-C-13-A
 Client ID: MW-19I
 Sample Type: Client
 Inject. Date: 14-Aug-2022 07:13:14 ALS Bottle#: 19 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-C-13-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:44:05 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:39:46

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									E
503.00 > 229.00	3.924	3.932	-0.008	0.904	18075848	101.5		34329	E
2 BFS_A3B									
519.00 > 113.00	4.003	4.010	-0.007	0.922	5221575	26.2		934	
3 BFS_B3									
553.00 > 345.00	4.154	4.163	-0.009	0.957	26317057	238.3		1125	
4 BFS_A2B2									
569.00 > 229.00	4.258	4.263	-0.005	0.981	15038524	195.5		872	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.341	4.346	-0.005	0.877	514658	8.26	165	981	
5 BFS_A4B									
585.00 > 113.00	4.341	4.355	-0.014	1.000	2449808	9.97		1004	
7 BFS_AB3									
619.00 > 229.00	4.519	4.525	-0.006	1.041	20813178	199.9		1729	
8 BFS_A3B2									
635.00 > 113.00	4.619	4.627	-0.008	1.064	2251832	10.7		676	
9 BFS_B4									
669.00 > 461.00	4.753	4.760	-0.007	1.095	1182671	17.2		938	
10 BFS_A2B3									M
685.00 > 571.00	4.868	4.874	-0.006	1.121	10193	1.48		159	M
* 11 13C2 PFOA									
415.00 > 370.00	4.951	4.958	-0.007		1553387	5.00		419	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-23.d

Injection Date: 14-Aug-2022 07:13:14

Instrument ID: 30733

Lims ID: 410-90799-C-13-A

Lab Sample ID: 410-90799-13

Client ID: MW-19I

Operator ID: US19_USR_INS20260

ALS Bottle#: 19

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

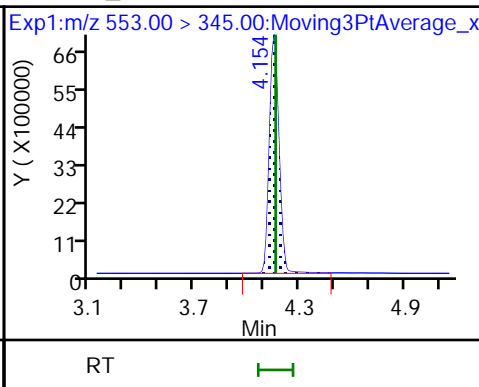
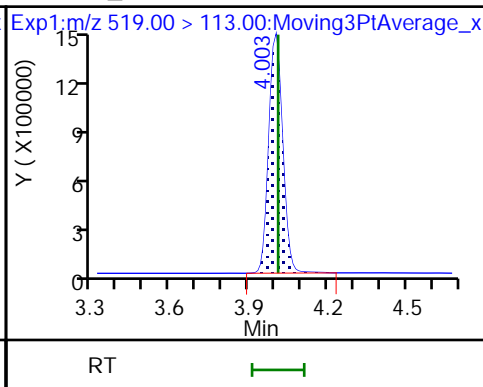
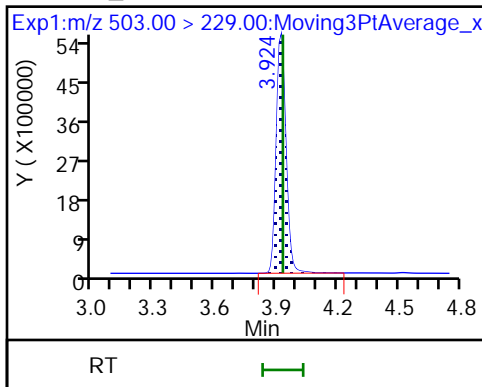
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

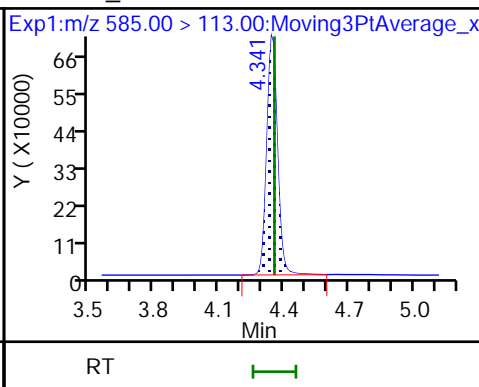
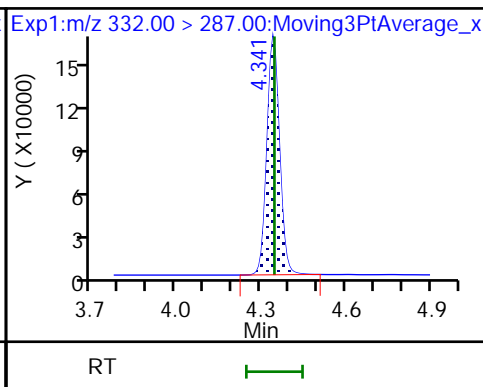
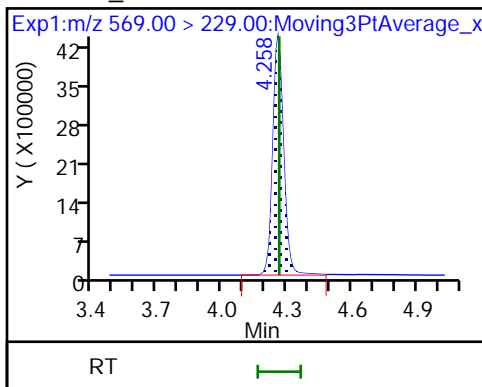
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

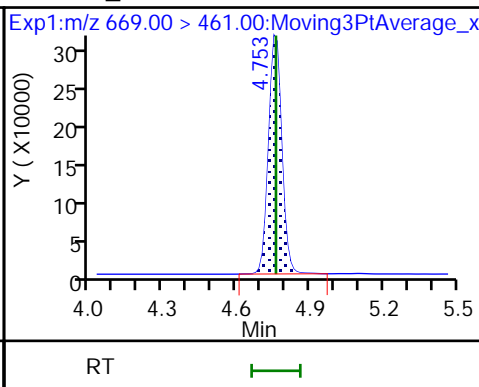
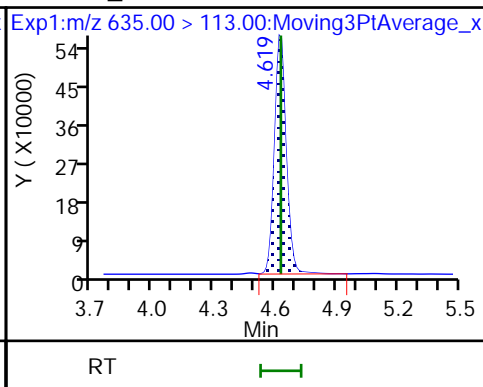
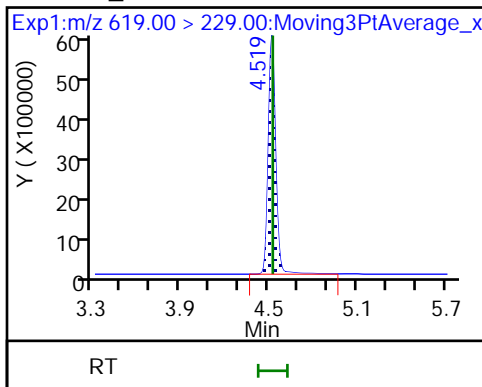
5 BFS_A4B



7 BFS_AB3

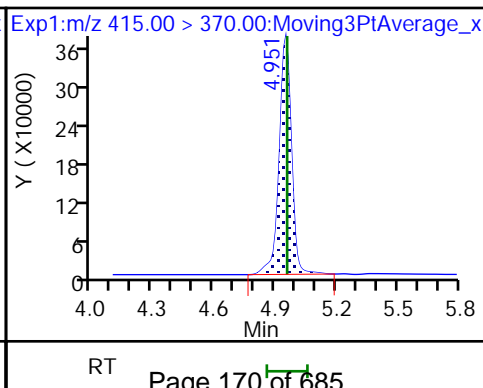
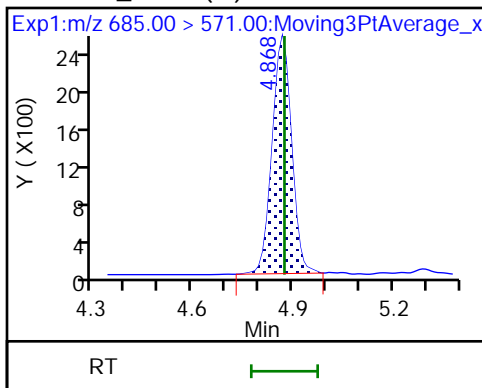
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

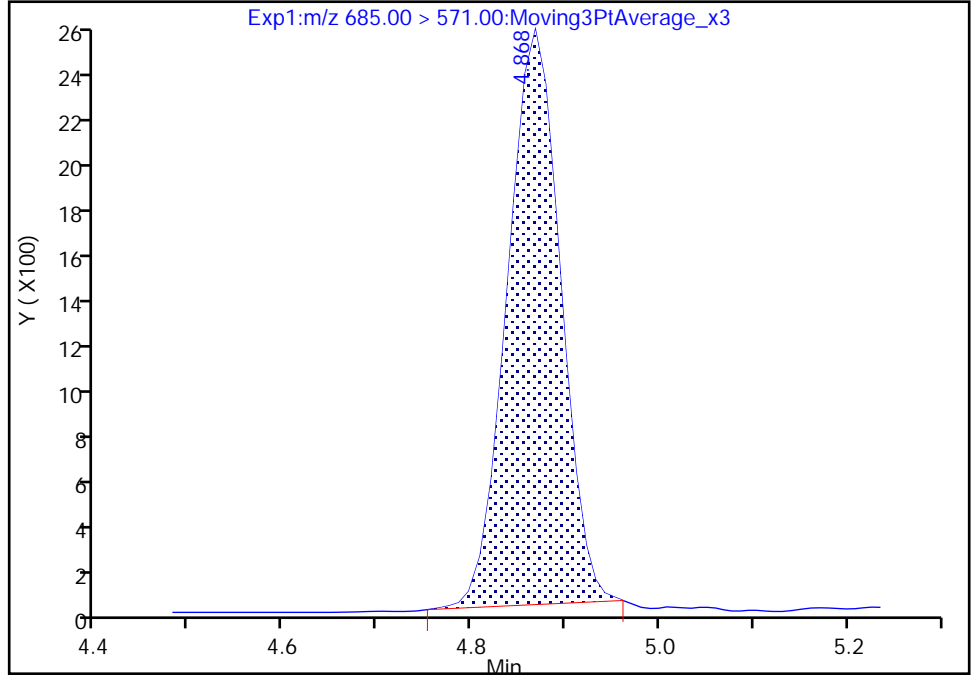
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Injection Date: 14-Aug-2022 07:13:14 Instrument ID: 30733
Lims ID: 410-90799-C-13-A Lab Sample ID: 410-90799-13
Client ID: MW-191
Operator ID: US19_USR_INS20260 ALS Bottle#: 19 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

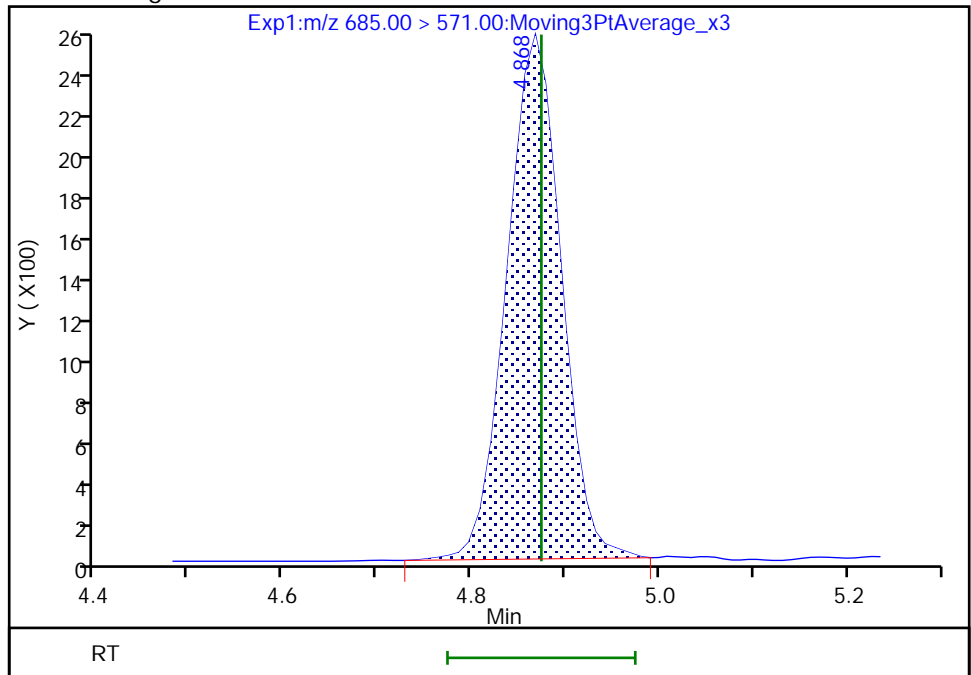
RT: 4.87
Area: 9893
Amount: 1.433048
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 10193
Amount: 1.476532
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:39:44
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 171 of 685

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19I Lab Sample ID: 410-90799-13

Matrix: Water Lab File ID: 22AUG09BFS-12.d

Analysis Method: BFS Date Collected: 07/12/2022 11:10

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 275.7(mL) Date Analyzed: 08/10/2022 04:45

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	750		13	3.6
STL02887	BFS_A2B3	8.0	J	10	3.6
STL02880	BFS_A3B	83		5.4	1.8
STL02885	BFS_A3B2	41		7.3	1.8
STL02883	BFS_A4B	33		3.6	1.8
STL02879	BFS_AB2	340	*+ cn	5.4	0.73
STL02884	BFS_AB3	800		14	3.6
STL02881	BFS_B3	730		6.3	2.7
STL02886	BFS_B4	60		10	3.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	127		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-12.d
 Lims ID: 410-90799-B-13-A
 Client ID: MW-19I
 Sample Type: Client
 Inject. Date: 10-Aug-2022 04:45:20 ALS Bottle#: 21 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-B-13-A 10x
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 12:47:56 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1645

First Level Reviewer: UJB7 Date: 15-Aug-2022 12:47:56
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.971	-0.010	0.904	1675888	9.47	6564	
2 BFS_A3B	519.00 > 113.00	4.032	4.045	-0.013	0.921	453459	2.29	171	
3 BFS_B3	553.00 > 345.00	4.188	4.203	-0.015	0.956	2260839	20.1	148	
4 BFS_A2B2	569.00 > 229.00	4.296	4.315	-0.019	0.981	1560559	20.7	199	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.380	4.390	-0.010	0.878	66439	0.6366	127	258
5 BFS_A4B	585.00 > 113.00	4.388	4.399	-0.011	1.002	233877	0.9088	219	
7 BFS_AB3	619.00 > 229.00	4.564	4.567	-0.003	1.042	2217925	22.0	284	
8 BFS_A3B2	635.00 > 113.00	4.658	4.674	-0.016	1.063	212383	1.13	221	
9 BFS_B4	669.00 > 461.00	4.792	4.805	-0.013	1.094	100830	1.66	184	
10 BFS_A2B3	685.00 > 571.00	4.907	4.907	0.0	1.120	1285	0.2215	23.2	M M
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		2435696	5.00	251	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-12.d

Injection Date: 10-Aug-2022 04:45:20

Instrument ID: 30733

Lims ID: 410-90799-B-13-A

Lab Sample ID: 410-90799-13

Client ID: MW-19I

Operator ID: US19_USR_INS20260

ALS Bottle#: 21

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

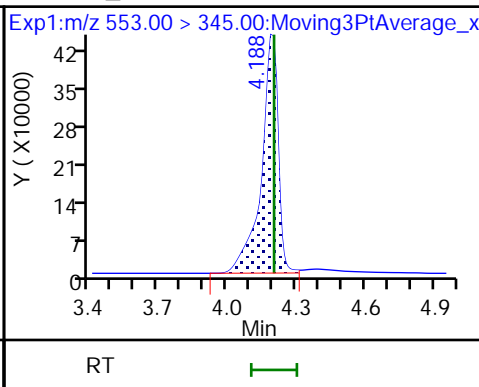
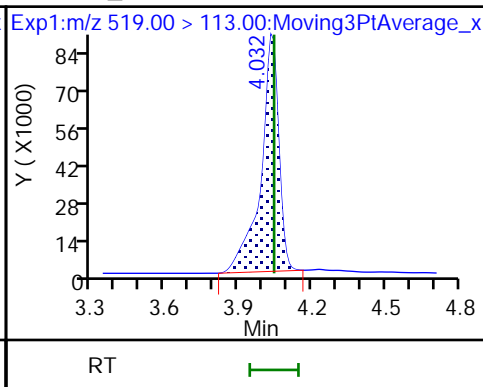
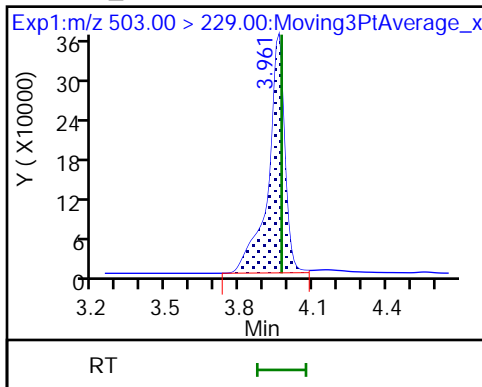
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

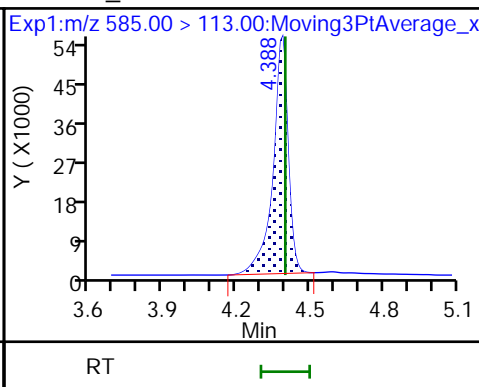
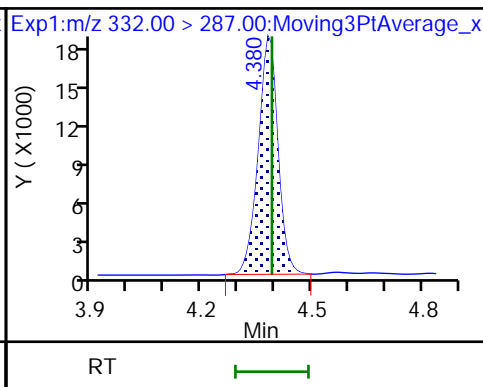
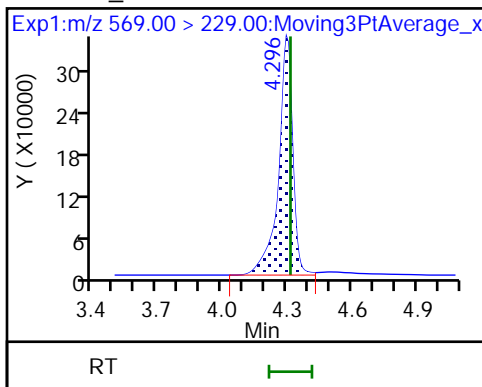
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

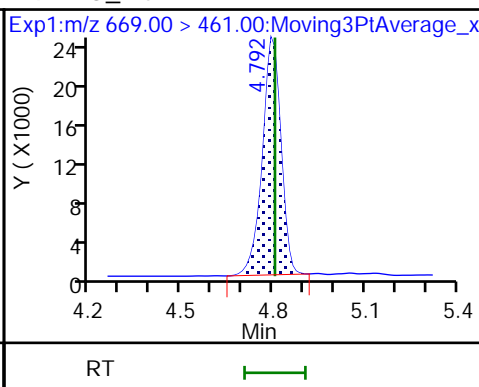
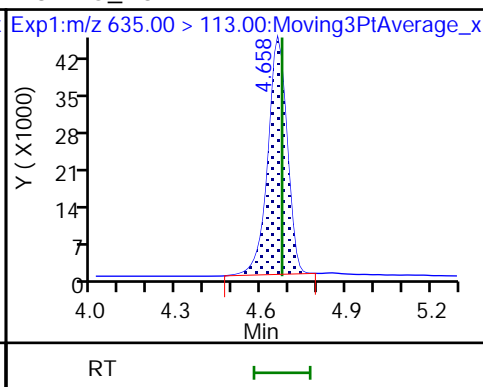
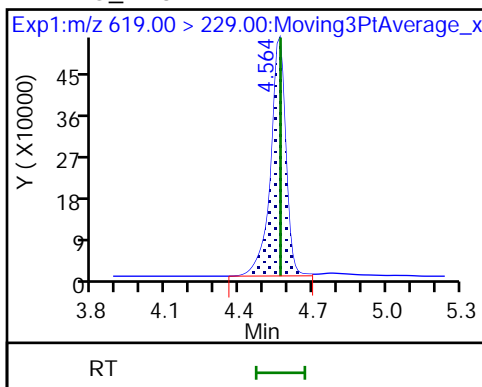
5 BFS_A4B



7 BFS_AB3

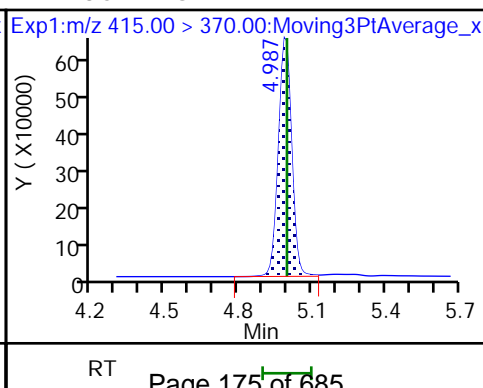
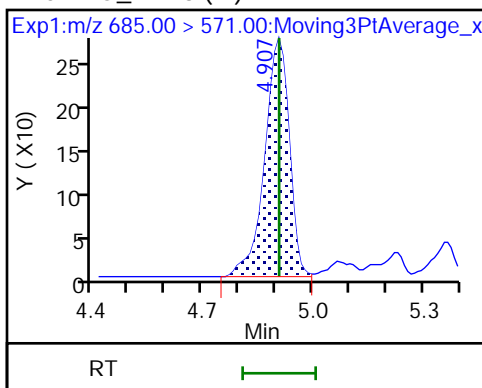
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

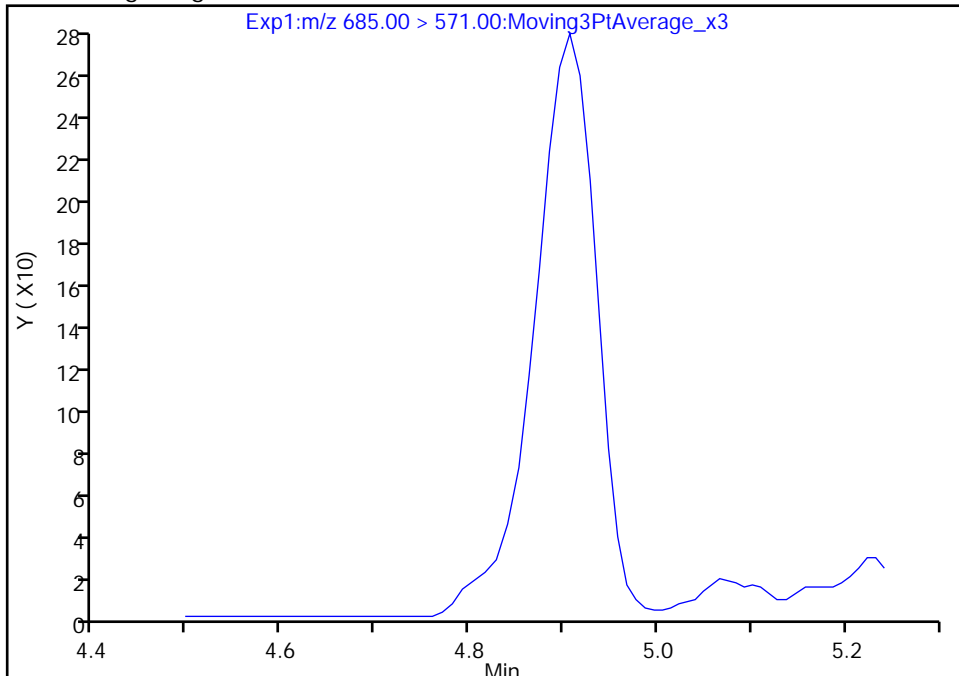
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-12.d
Injection Date: 10-Aug-2022 04:45:20 Instrument ID: 30733
Lims ID: 410-90799-B-13-A Lab Sample ID: 410-90799-13
Client ID: MW-191
Operator ID: US19_USR_INS20260 ALS Bottle#: 21 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

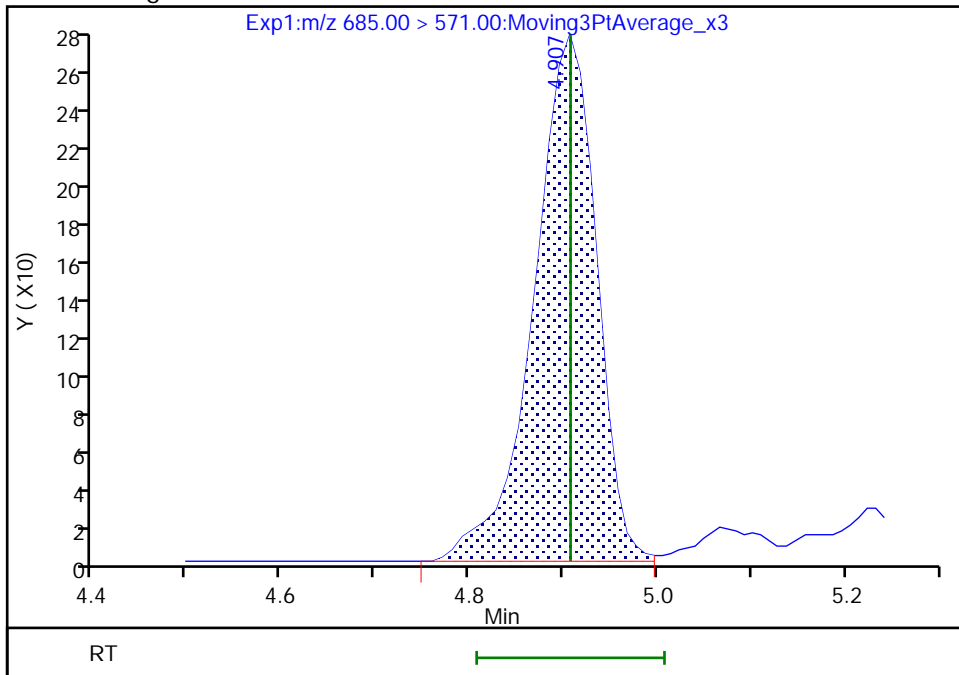
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.91
Area: 1285
Amount: 0.221497
Amount Units: ng/ml



Reviewer: UJB7, 15-Aug-2022 12:47:51
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19S Lab Sample ID: 410-90799-14

Matrix: Water Lab File ID: 22AUG09BFS-13.d

Analysis Method: BFS Date Collected: 07/12/2022 12:40

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 302.1(mL) Date Analyzed: 08/10/2022 04:58

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.38	J	1.2	0.33
STL02887	BFS_A2B3	ND		0.91	0.33
STL02880	BFS_A3B	0.66		0.50	0.17
STL02885	BFS_A3B2	ND		0.66	0.17
STL02883	BFS_A4B	ND		0.33	0.17
STL02879	BFS_AB2	6.2	*+	0.50	0.066
STL02884	BFS_AB3	0.39	J	1.2	0.33
STL02881	BFS_B3	1.4		0.58	0.25
STL02886	BFS_B4	0.43	J	0.91	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-13.d
 Lims ID: 410-90799-B-14-A
 Client ID: MW-19S
 Sample Type: Client
 Inject. Date: 10-Aug-2022 04:58:00 ALS Bottle#: 22 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-14-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 12:49:38 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1645

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:32:52
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.971	-0.010	0.904	340312	1.87	4913	
2 BFS_A3B	519.00 > 113.00	4.042	4.045	-0.003	0.923	39847	0.1988	62.3	
3 BFS_B3	553.00 > 345.00	4.201	4.203	-0.002	0.959	45171	0.4190	130	
4 BFS_A2B2	569.00 > 229.00	4.297	4.315	-0.018	0.981	13128	0.1137	89.5	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.381	4.390	-0.009	0.877	689374	5.37	107	353
5 BFS_A4B	585.00 > 113.00	4.389	4.399	-0.010	1.002	1584	0.0100	12.1	a
7 BFS_AB3	619.00 > 229.00	4.565	4.567	-0.002	1.042	11071	0.1182	83.4	
8 BFS_A3B2	635.00 > 113.00	4.659	4.674	-0.015	1.064	4684	0.0284	26.4	a
9 BFS_B4	669.00 > 461.00	4.805	4.805	0.0	1.097	8539	0.1292	74.0	
* 11 13C2 PFOA	415.00 > 370.00	4.998	4.997	0.001		2997739	5.00	428	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

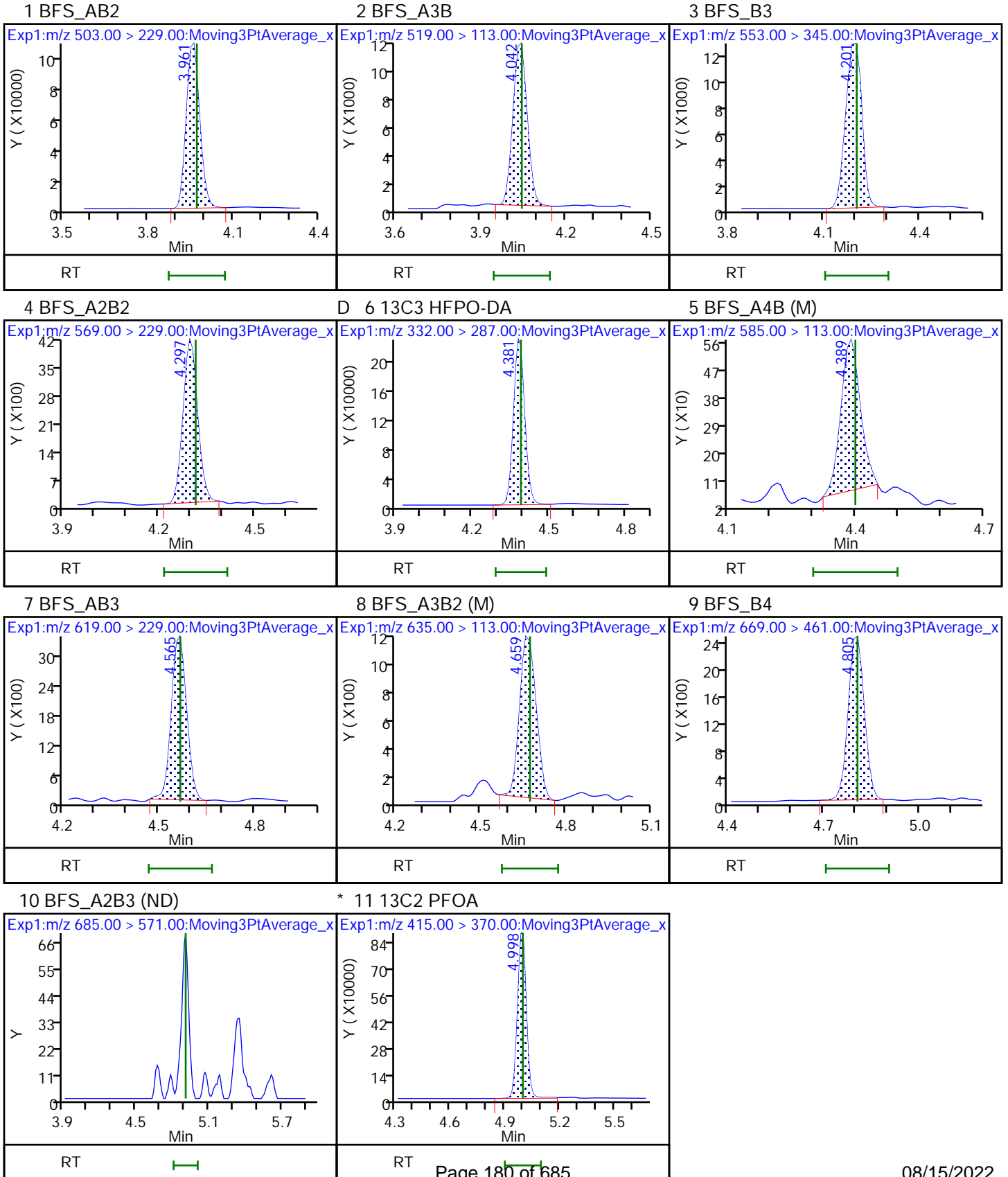
PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-13.d
Injection Date: 10-Aug-2022 04:58:00 Instrument ID: 30733
Lims ID: 410-90799-B-14-A Lab Sample ID: 410-90799-14
Client ID: MW-19S
Operator ID: US19_USR_INS20260 ALS Bottle#: 22 Worklist Smp#: 13
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

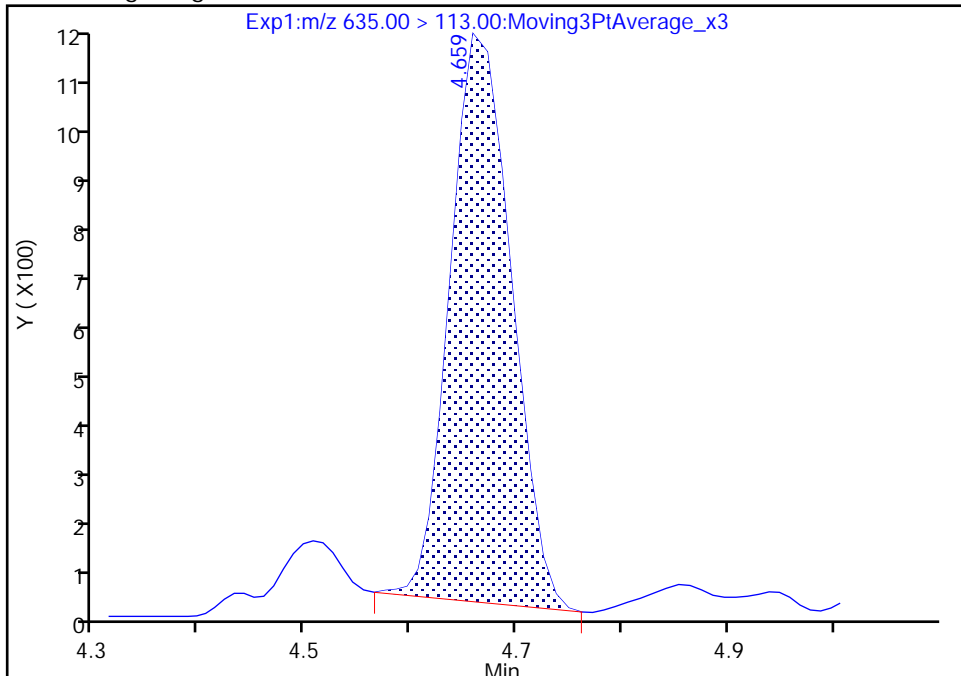
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-13.d
Injection Date: 10-Aug-2022 04:58:00 Instrument ID: 30733
Lims ID: 410-90799-B-14-A Lab Sample ID: 410-90799-14
Client ID: MW-19S
Operator ID: US19_USR_INS20260 ALS Bottle#: 22 Worklist Smp#: 13
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

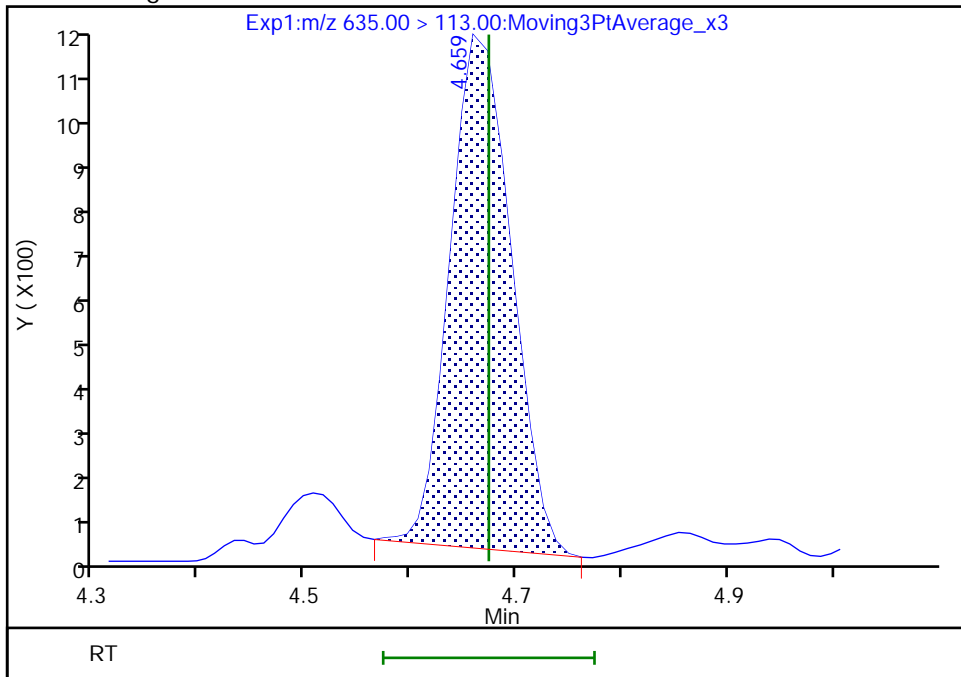
RT: 4.66
Area: 4684
Amount: 0.028444
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 4684
Amount: 0.028444
Amount Units: ng/ml

Manual Integration Results



Reviewer: UJB7, 15-Aug-2022 12:49:21
Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Lancaster Laboratories Environment Testing, LLC

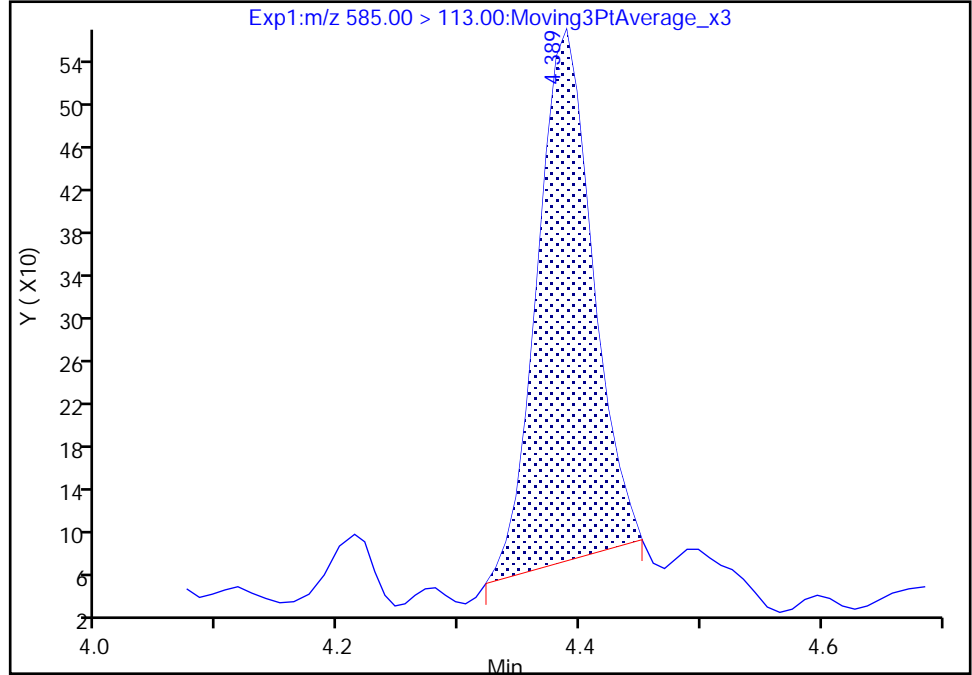
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Injection Date: 10-Aug-2022 04:58:00 Instrument ID: 30733
Lims ID: 410-90799-B-14-A Lab Sample ID: 410-90799-14
Client ID: MW-19S
Operator ID: US19_USR_INS20260 ALS Bottle#: 22 Worklist Smp#: 13
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

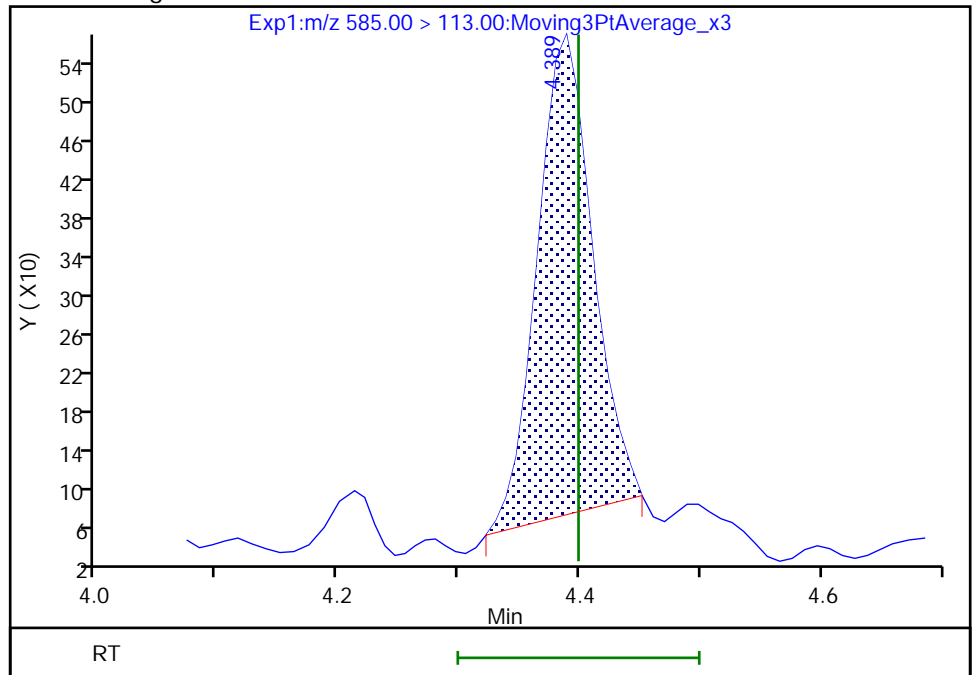
RT: 4.39
Area: 1584
Amount: 0.009973
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 1584
Amount: 0.009973
Amount Units: ng/ml

Manual Integration Results



Reviewer: UJB7, 15-Aug-2022 12:49:01
Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Client Sample ID: MW-19S RE

Lab Sample ID: 410-90799-14 RE

Matrix: Water

Lab File ID: 22AUG13BFS-24.d

Analysis Method: BFS

Date Collected: 07/12/2022 12:40

Extraction Method: 3535

Date Extracted: 08/11/2022 10:35

Sample wt/vol: 297.6(mL)

Date Analyzed: 08/14/2022 07:25

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 285708

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.59	J H	1.2	0.34
STL02887	BFS_A2B3	ND	H	0.92	0.34
STL02880	BFS_A3B	0.55	H	0.50	0.17
STL02885	BFS_A3B2	ND	H	0.67	0.17
STL02883	BFS_A4B	ND	H	0.34	0.17
STL02879	BFS_AB2	5.1	H	0.50	0.067
STL02884	BFS_AB3	ND	H	1.3	0.34
STL02881	BFS_B3	1.2	H	0.59	0.25
STL02886	BFS_B4	ND	H	0.92	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-24.d
 Lims ID: 410-90799-C-14-A
 Client ID: MW-19S
 Sample Type: Client
 Inject. Date: 14-Aug-2022 07:25:51 ALS Bottle#: 20 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-C-14-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:44:05 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:40:08
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	313196	1.51	5323	
2 BFS_A3B	519.00 > 113.00	4.013	4.010	0.003	0.923	35911	0.1633	65.3	
3 BFS_B3	553.00 > 345.00	4.165	4.163	0.002	0.958	46855	0.3507	181	
4 BFS_A2B2	569.00 > 229.00	4.265	4.263	0.002	0.981	11313	0.1758	76.8	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.349	4.346	0.003	0.877	600542	5.66	113	942
* 11 13C2 PFOA	415.00 > 370.00	4.961	4.958	0.003		2643806	5.00	887	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-24.d

Injection Date: 14-Aug-2022 07:25:51

Instrument ID: 30733

Lims ID: 410-90799-C-14-A

Lab Sample ID: 410-90799-14

Client ID: MW-19S

Operator ID: US19_USR_INS20260

ALS Bottle#: 20

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

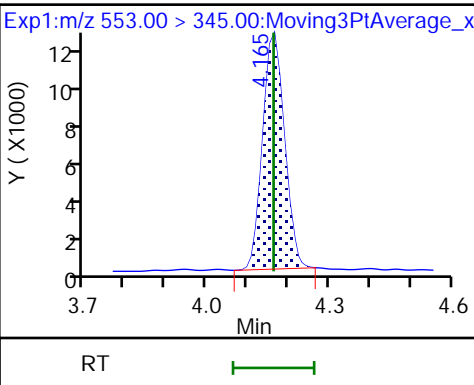
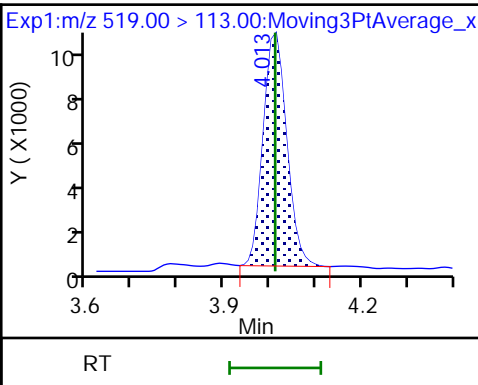
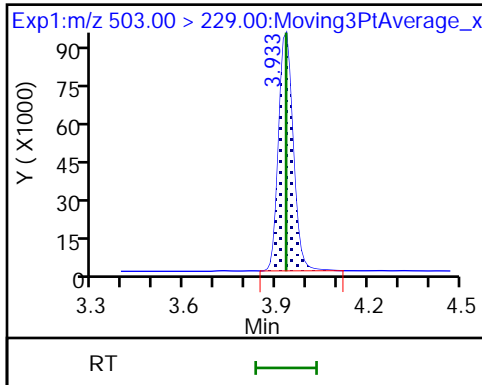
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

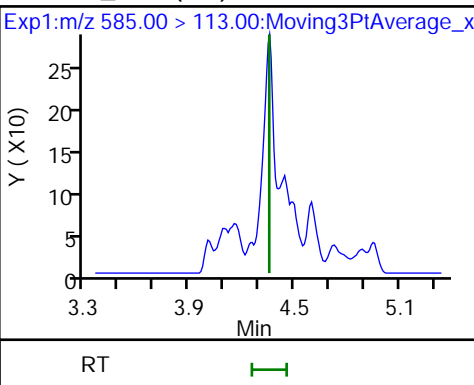
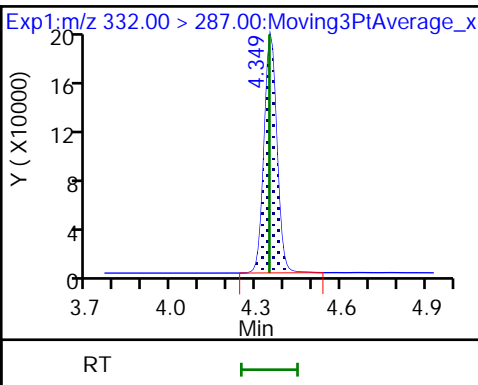
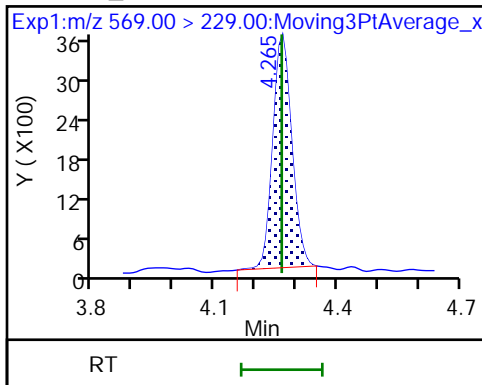
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

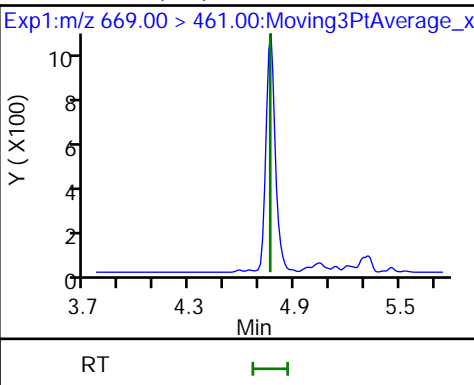
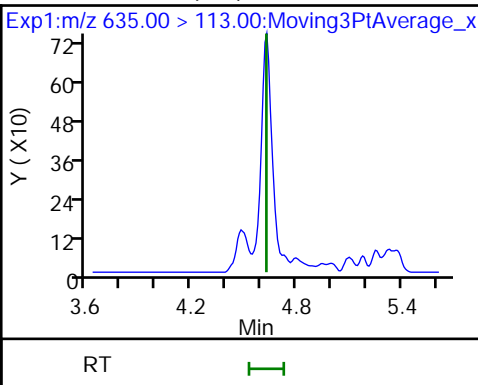
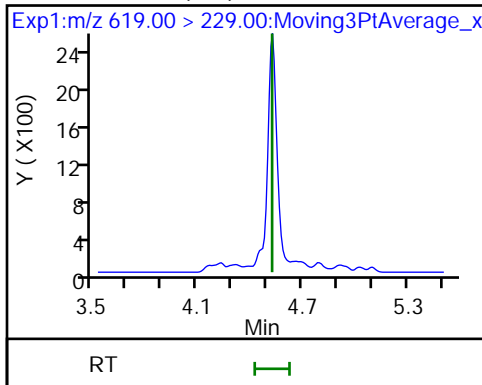
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

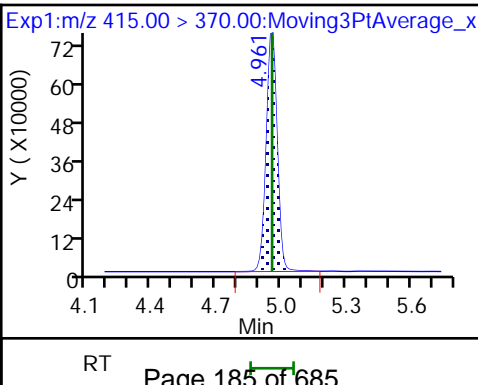
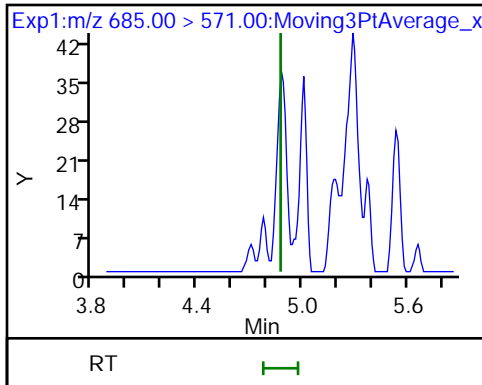
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Client Sample ID: MW-38D

Lab Sample ID: 410-90799-15

Matrix: Water

Lab File ID: 22AUG05BFS-38.d

Analysis Method: BFS

Date Collected: 07/12/2022 11:40

Extraction Method: 3535

Date Extracted: 07/27/2022 10:06

Sample wt/vol: 292 (mL)

Date Analyzed: 08/09/2022 10:32

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 10 (uL)

GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	10		1.2	0.34
STL02887	BFS_A2B3	ND	cn	0.94	0.34
STL02880	BFS_A3B	0.72		0.51	0.17
STL02885	BFS_A3B2	0.41	J	0.68	0.17
STL02883	BFS_A4B	0.47		0.34	0.17
STL02879	BFS_AB2	2.6	*+ cn	0.51	0.068
STL02884	BFS_AB3	11		1.3	0.34
STL02881	BFS_B3	6.9		0.60	0.26
STL02886	BFS_B4	0.50	J	0.94	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	151	*5+ cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-38.d
 Lims ID: 410-90799-B-15-A
 Client ID: MW-38D
 Sample Type: Client
 Inject. Date: 09-Aug-2022 10:32:46 ALS Bottle#: 45 Worklist Smp#: 38
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-15-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-038
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:31:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:30:57
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.971	3.961	0.010	0.903	142378	0.7559	2577	
2 BFS_A3B	519.00 > 113.00	4.043	4.042	0.001	0.919	43682	0.2093	103	
3 BFS_B3	553.00 > 345.00	4.201	4.200	0.001	0.955	240208	2.01	227	
4 BFS_A2B2	569.00 > 229.00	4.305	4.305	0.0	0.979	245413	2.97	299	
5 BFS_A4B	585.00 > 113.00	4.397	4.388	0.009	1.000	37349	0.1379	166	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.397	4.388	0.009	0.878	717188	7.55	151	364
7 BFS_AB3	619.00 > 229.00	4.575	4.565	0.010	1.041	363981	3.34	379	
8 BFS_A3B2	635.00 > 113.00	4.672	4.658	0.014	1.063	23422	0.1198	131	
9 BFS_B4	669.00 > 461.00	4.804	4.805	-0.001	1.093	9900	0.1448	87.4	
* 11 13C2 PFOA	415.00 > 370.00	5.006	4.997	0.009		2216603	5.00	243	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-38.d

Injection Date: 09-Aug-2022 10:32:46

Instrument ID: 30733

Lims ID: 410-90799-B-15-A

Lab Sample ID: 410-90799-15

Client ID: MW-38D

Operator ID: US19_USR_INS20260

ALS Bottle#: 45

Worklist Smp#: 38

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

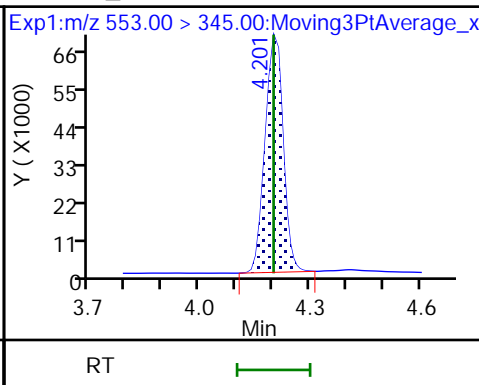
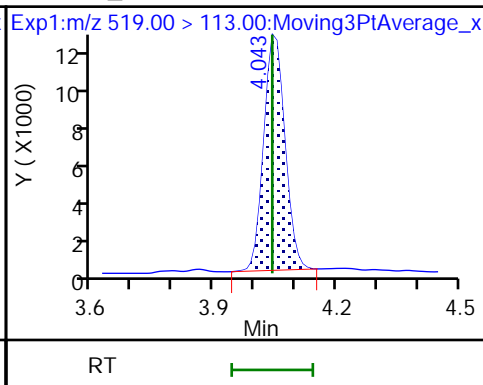
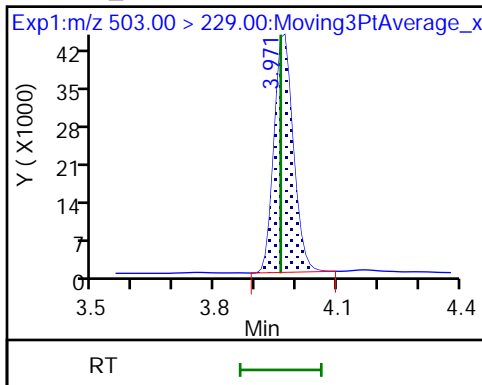
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

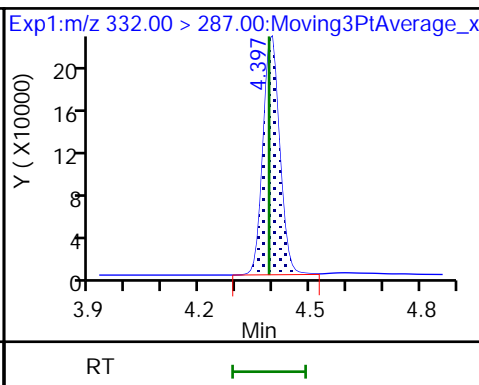
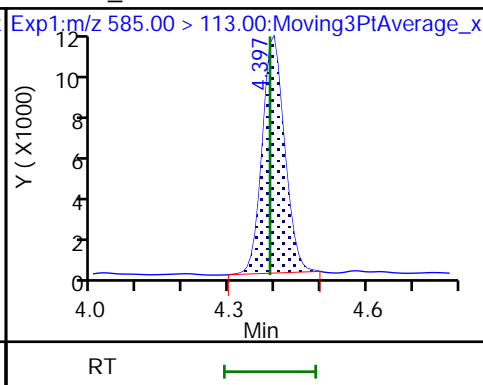
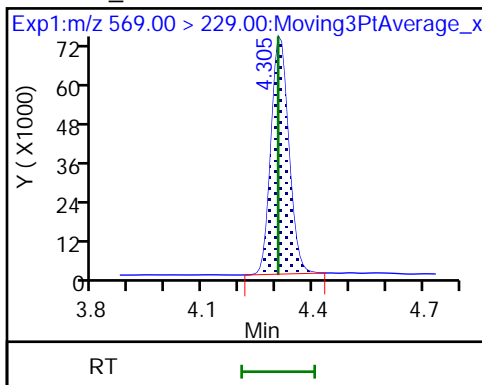
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B

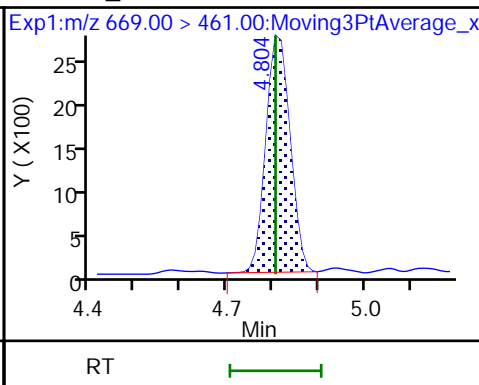
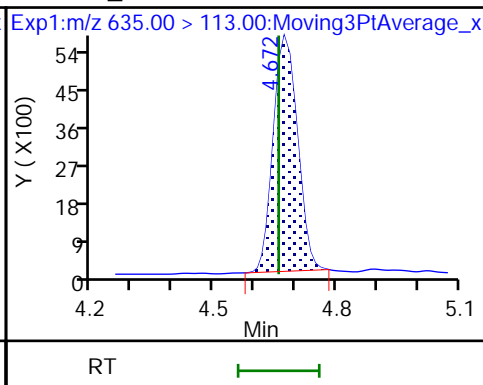
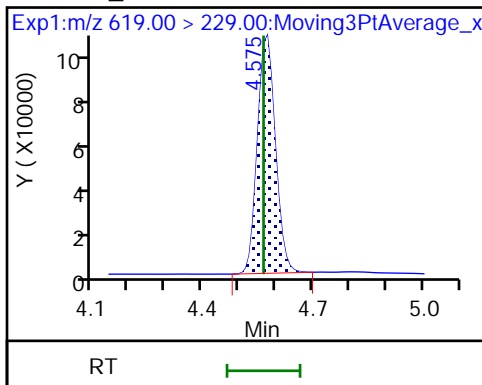
D 6 13C3 HFPO-DA



7 BFS_AB3

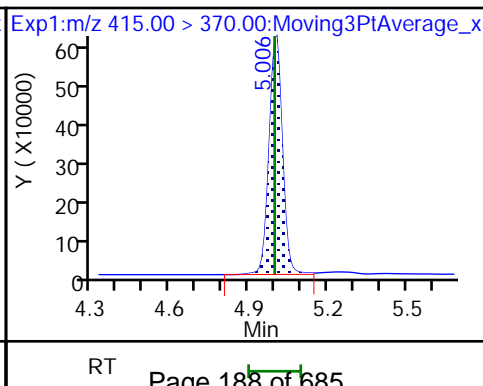
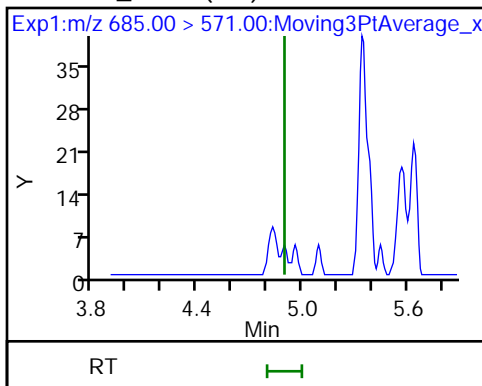
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-38D RE Lab Sample ID: 410-90799-15 RE

Matrix: Water Lab File ID: 22AUG13BFS-25.d

Analysis Method: BFS Date Collected: 07/12/2022 11:40

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 302 (mL) Date Analyzed: 08/14/2022 07:38

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	7.9	H	1.2	0.33
STL02887	BFS_A2B3	ND	H	0.91	0.33
STL02880	BFS_A3B	0.63	H	0.50	0.17
STL02885	BFS_A3B2	ND	H	0.66	0.17
STL02883	BFS_A4B	0.38	H	0.33	0.17
STL02879	BFS_AB2	2.3	H	0.50	0.066
STL02884	BFS_AB3	7.8	H	1.2	0.33
STL02881	BFS_B3	6.6	H	0.58	0.25
STL02886	BFS_B4	0.35	J H	0.91	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	127		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-25.d
 Lims ID: 410-90799-C-15-A
 Client ID: MW-38D
 Sample Type: Client
 Inject. Date: 14-Aug-2022 07:38:28 ALS Bottle#: 21 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-C-15-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:44:05 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:40:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.923	3.932	-0.009	0.902	140899	0.7039	2730	
2 BFS_A3B	519.00 > 113.00	4.001	4.010	-0.009	0.920	40888	0.1899	137	
3 BFS_B3	553.00 > 345.00	4.164	4.163	0.001	0.958	250364	1.99	589	
4 BFS_A2B2	569.00 > 229.00	4.265	4.263	0.002	0.981	212393	2.39	625	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.348	4.346	0.002	0.877	583305	6.36	127	1021
5 BFS_A4B	585.00 > 113.00	4.348	4.355	-0.007	1.000	31844	0.1141	209	
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.001	1.041	293608	2.36	733	
9 BFS_B4	669.00 > 461.00	4.760	4.760	0.0	1.095	8423	0.1056	115	M
* 11 13C2 PFOA	415.00 > 370.00	4.957	4.958	-0.001		2285792	5.00	756	

QC Flag Legend

Processing Flags

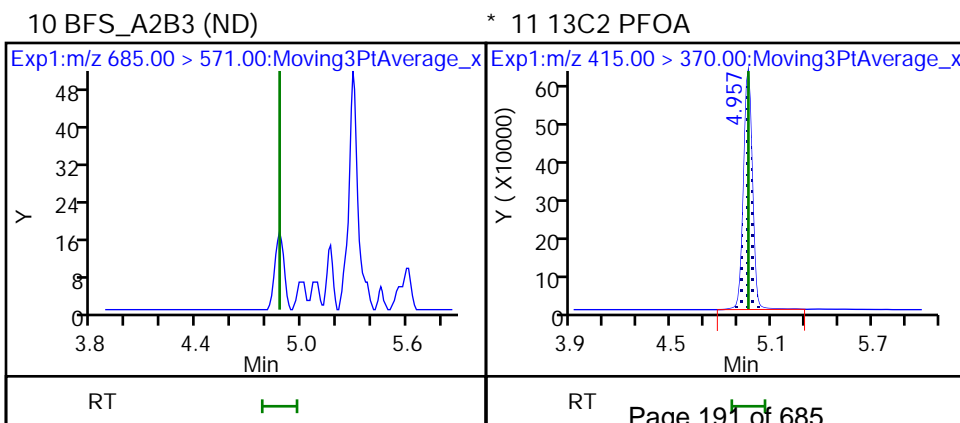
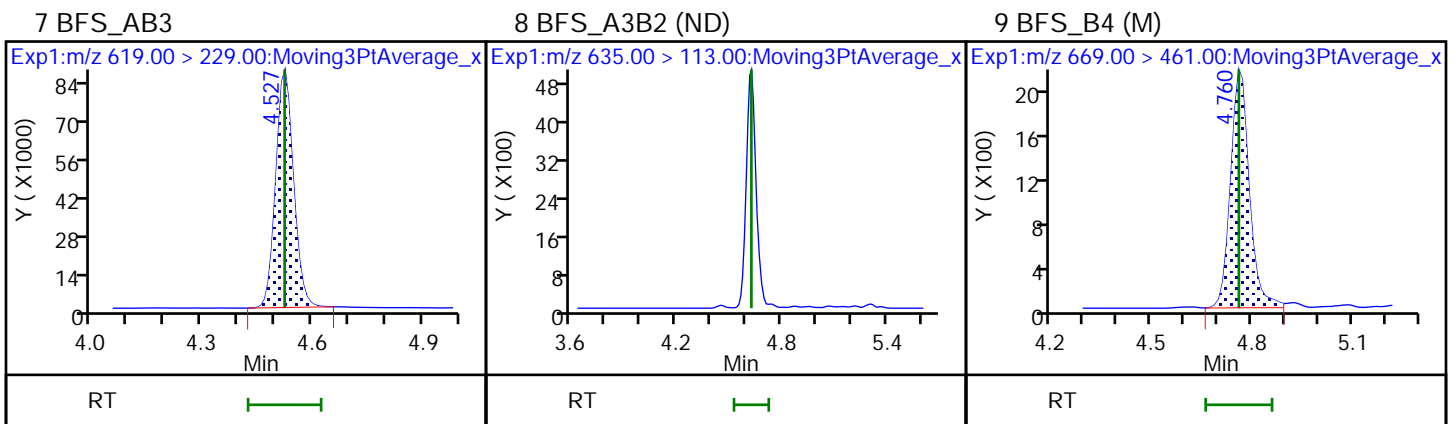
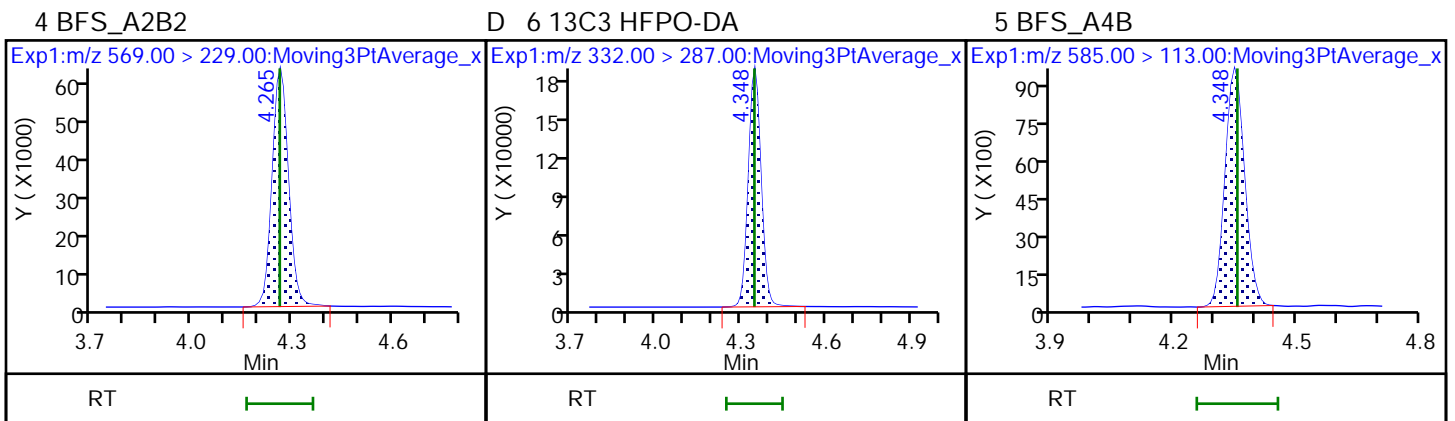
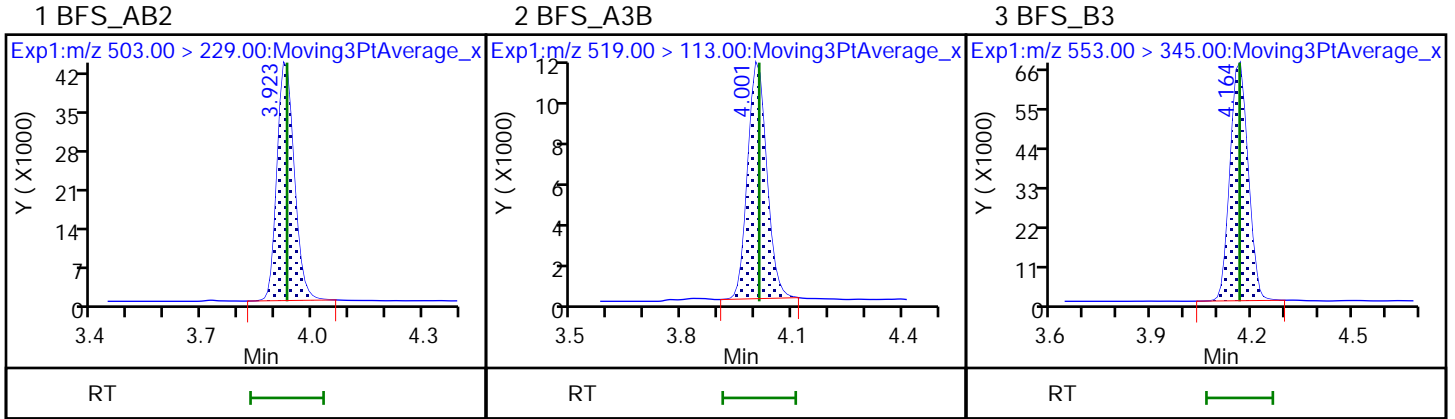
Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-25.d
Injection Date: 14-Aug-2022 07:38:28 Instrument ID: 30733
Lims ID: 410-90799-C-15-A Lab Sample ID: 410-90799-15
Client ID: MW-38D
Operator ID: US19_USR_INS20260 ALS Bottle#: 21 Worklist Smp#: 11
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

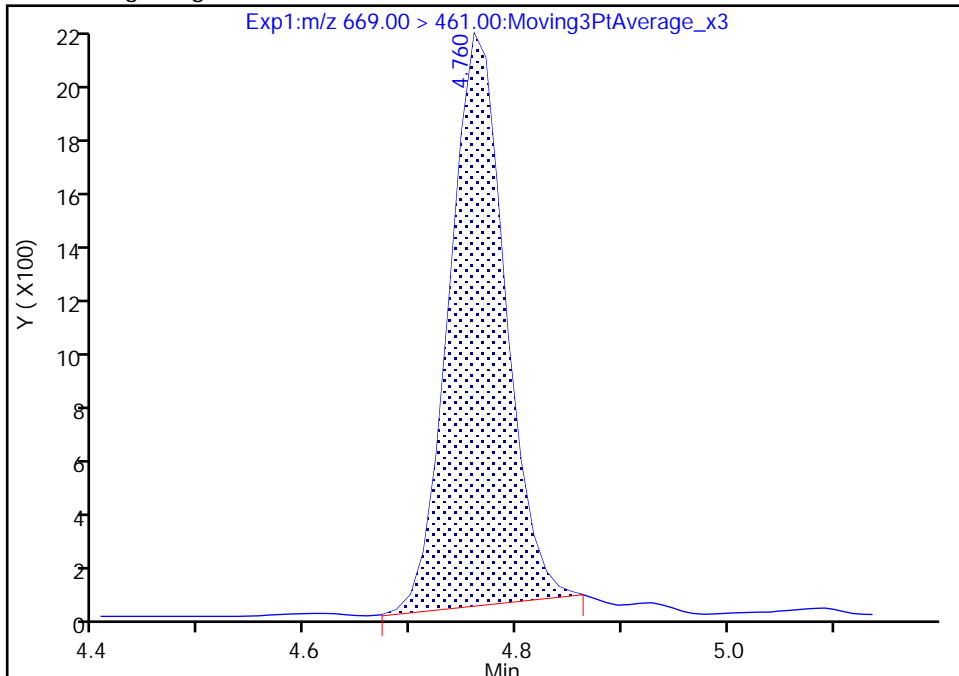
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Injection Date: 14-Aug-2022 07:38:28 Instrument ID: 30733
Lims ID: 410-90799-C-15-A Lab Sample ID: 410-90799-15
Client ID: MW-38D
Operator ID: US19_USR_INS20260 ALS Bottle#: 21 Worklist Smp#: 11
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

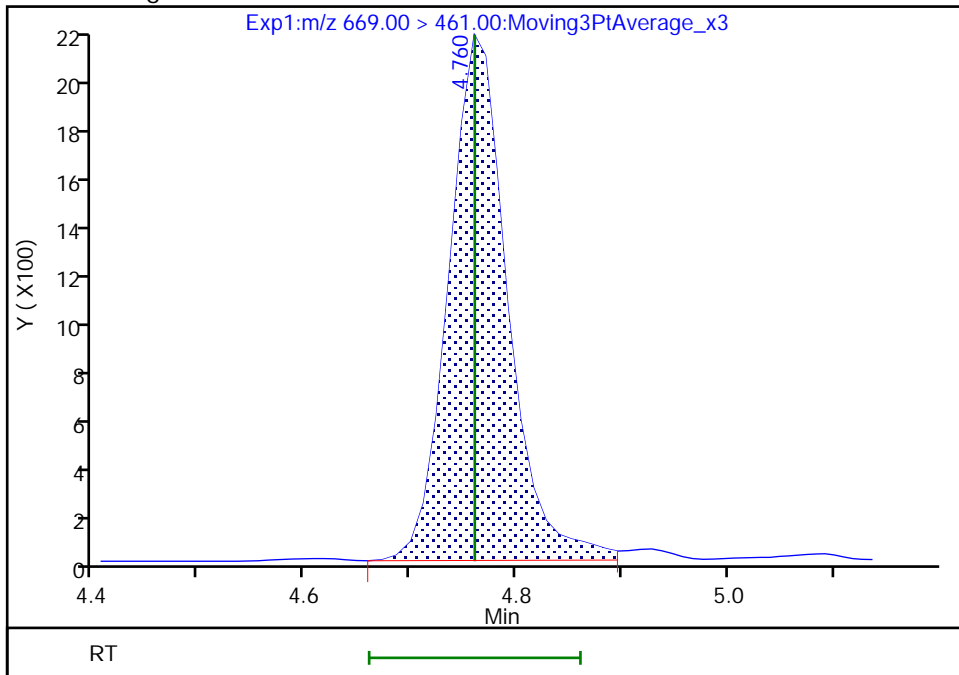
RT: 4.76
Area: 7878
Amount: 0.098647
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 8423
Amount: 0.105583
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:40:22
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-33S Lab Sample ID: 410-90799-16

Matrix: Water Lab File ID: 22AUG05BFS-39.d

Analysis Method: BFS Date Collected: 07/12/2022 13:00

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 282 (mL) Date Analyzed: 08/09/2022 10:45

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	2.4		1.2	0.35
STL02887	BFS_A2B3	ND	cn	0.98	0.35
STL02880	BFS_A3B	0.40	J	0.53	0.18
STL02885	BFS_A3B2	ND		0.71	0.18
STL02883	BFS_A4B	ND		0.35	0.18
STL02879	BFS_AB2	1.2	++ cn	0.53	0.071
STL02884	BFS_AB3	2.2		1.3	0.35
STL02881	BFS_B3	2.1		0.62	0.27
STL02886	BFS_B4	ND		0.98	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	114		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-39.d
 Lims ID: 410-90799-B-16-A
 Client ID: MW-33S
 Sample Type: Client
 Inject. Date: 09-Aug-2022 10:45:23 ALS Bottle#: 46 Worklist Smp#: 39
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-16-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-039
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:31:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:31:18
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.902	64256	0.3462	1521	
2 BFS_A3B	519.00 > 113.00	4.044	4.042	0.002	0.921	22997	0.1135	99.3	
3 BFS_B3	553.00 > 345.00	4.202	4.200	0.002	0.957	68496	0.6023	206	
4 BFS_A2B2	569.00 > 229.00	4.306	4.305	0.001	0.981	58758	0.6769	316	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.390	4.388	0.002	0.878	709179	5.71	114	347
7 BFS_AB3	619.00 > 229.00	4.566	4.565	0.001	1.040	65558	0.6186	306	
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2899176	5.00	367	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-39.d

Injection Date: 09-Aug-2022 10:45:23

Instrument ID: 30733

Lims ID: 410-90799-B-16-A

Lab Sample ID: 410-90799-16

Client ID: MW-33S

Operator ID: US19_USR_INS20260

ALS Bottle#: 46

Worklist Smp#: 39

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

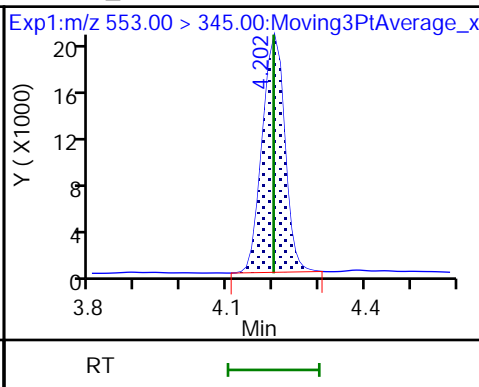
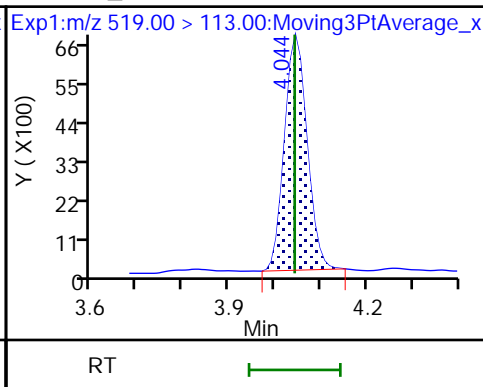
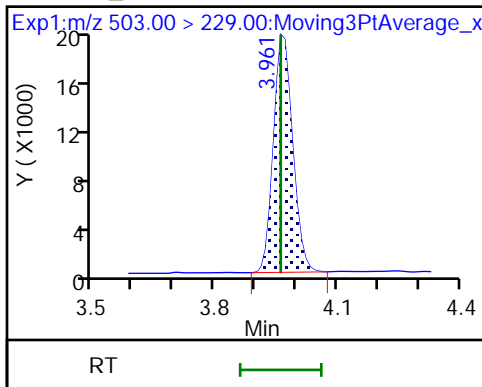
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

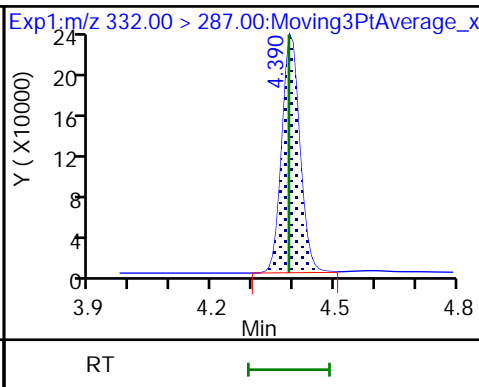
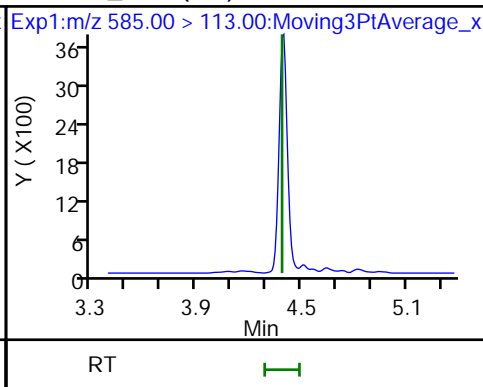
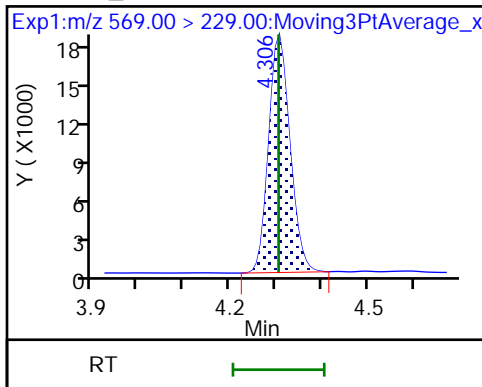
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B (ND)

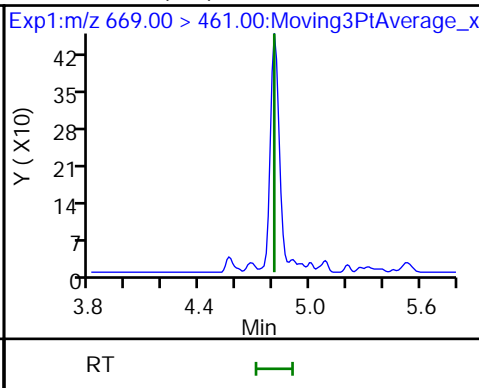
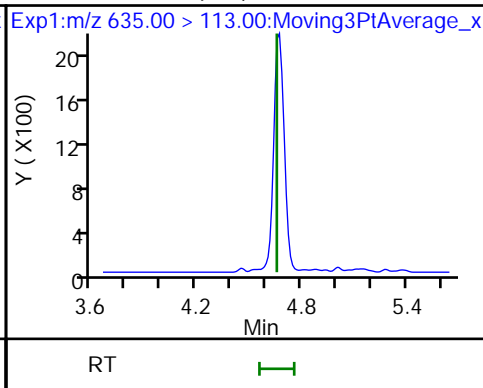
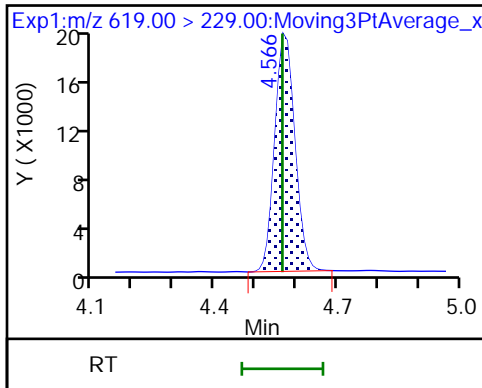
D 6 13C3 HFPO-DA



7 BFS_AB3

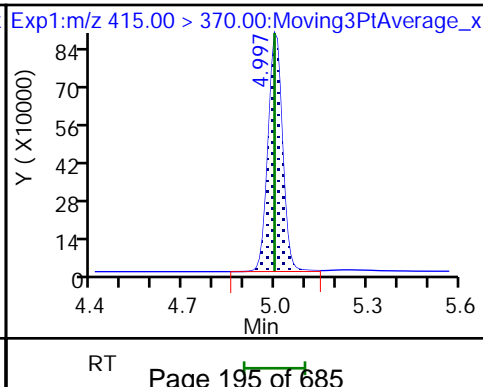
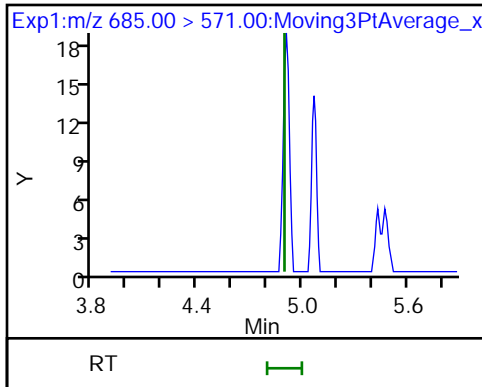
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Client Sample ID: MW-33S RE

Lab Sample ID: 410-90799-16 RE

Matrix: Water

Lab File ID: 22AUG13BFS-26.d

Analysis Method: BFS

Date Collected: 07/12/2022 13:00

Extraction Method: 3535

Date Extracted: 08/11/2022 10:35

Sample wt/vol: 284(mL)

Date Analyzed: 08/14/2022 07:51

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 285708

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1.4	H	1.2	0.35
STL02887	BFS_A2B3	ND	H	0.97	0.35
STL02880	BFS_A3B	0.31	J H	0.53	0.18
STL02885	BFS_A3B2	ND	H	0.70	0.18
STL02883	BFS_A4B	ND	H	0.35	0.18
STL02879	BFS_AB2	0.99	H	0.53	0.070
STL02884	BFS_AB3	ND	H	1.3	0.35
STL02881	BFS_B3	1.3	H	0.62	0.26
STL02886	BFS_B4	ND	H	0.97	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	156	*5+	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-26.d
 Lims ID: 410-90799-C-16-A
 Client ID: MW-33S
 Sample Type: Client
 Inject. Date: 14-Aug-2022 07:51:09 ALS Bottle#: 22 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-C-16-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:44:05 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:40:49

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.926	3.932	-0.006	0.904	61252	0.2805	1775	
2 BFS_A3B	519.00 > 113.00	4.004	4.010	-0.006	0.922	19762	0.0883	99.9	
3 BFS_B3	553.00 > 345.00	4.157	4.163	-0.006	0.957	51611	0.3606	317	
4 BFS_A2B2	569.00 > 229.00	4.260	4.263	-0.003	0.981	33369	0.3868	278	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.344	4.346	-0.002	0.876	643918	7.81	156	1058
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		2054338	5.00	845	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-26.d

Injection Date: 14-Aug-2022 07:51:09

Instrument ID: 30733

Lims ID: 410-90799-C-16-A

Lab Sample ID: 410-90799-16

Client ID: MW-33S

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

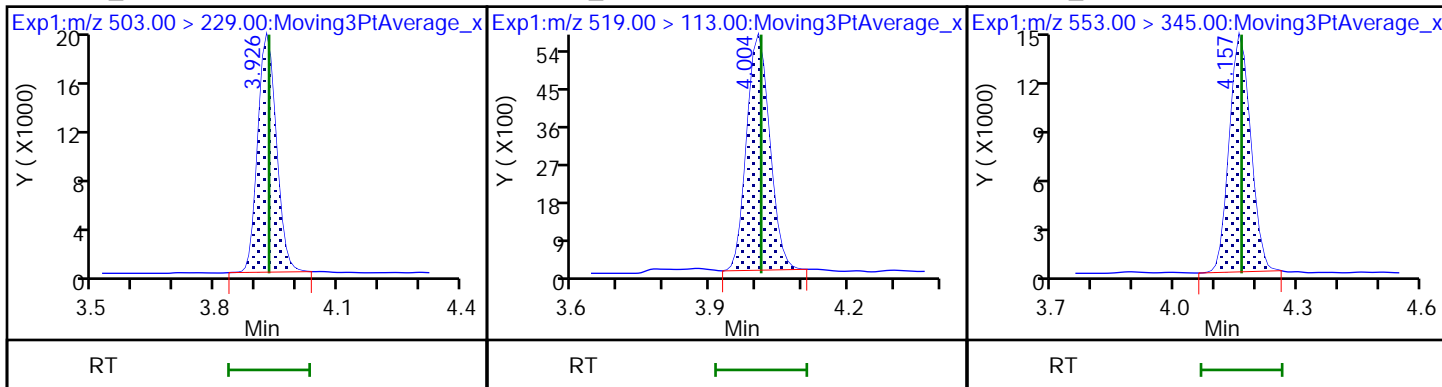
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

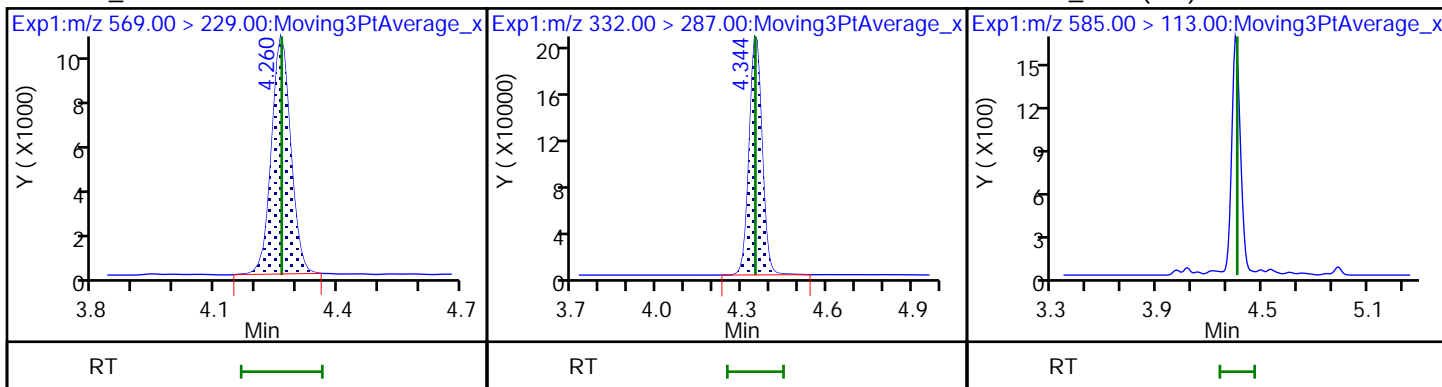
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

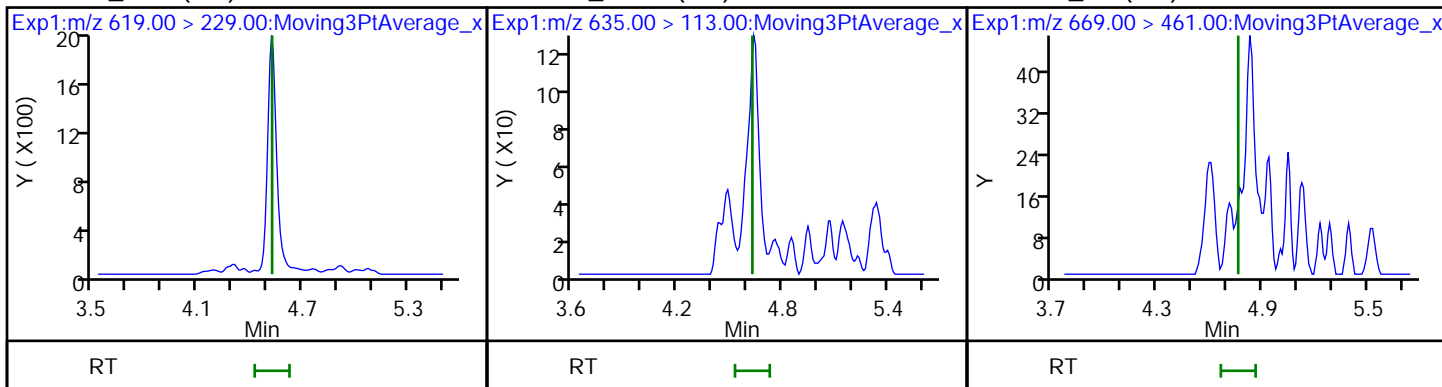
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

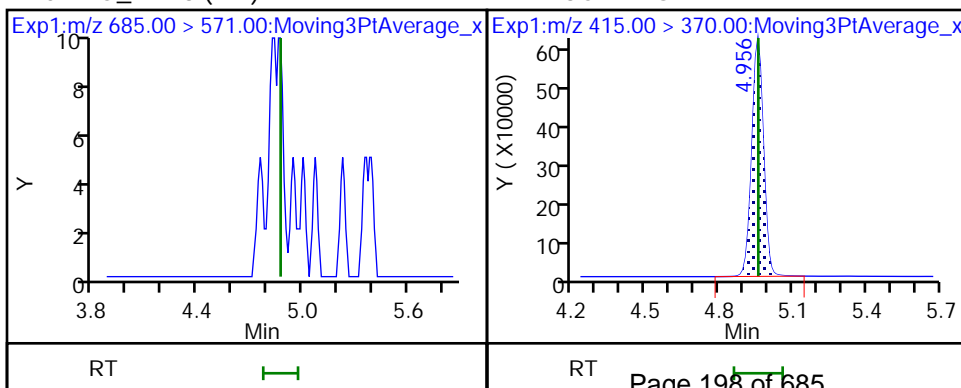
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-41D Lab Sample ID: 410-90799-17

Matrix: Water Lab File ID: 22AUG09BFS-15.d

Analysis Method: BFS Date Collected: 07/12/2022 14:35

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 326.5(mL) Date Analyzed: 08/10/2022 05:23

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	3.2		1.1	0.31
STL02887	BFS_A2B3	1.1		0.84	0.31
STL02880	BFS_A3B	0.25	J	0.46	0.15
STL02885	BFS_A3B2	1.0		0.61	0.15
STL02883	BFS_A4B	0.24	J	0.31	0.15
STL02879	BFS_AB2	0.72	++ cn	0.46	0.061
STL02884	BFS_AB3	9.7		1.1	0.31
STL02881	BFS_B3	2.3		0.54	0.23
STL02886	BFS_B4	3.7		0.84	0.31

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-15.d
 Lims ID: 410-90799-B-17-A
 Client ID: MW-41D
 Sample Type: Client
 Inject. Date: 10-Aug-2022 05:23:08 ALS Bottle#: 24 Worklist Smp#: 15
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-B-17-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 12:50:23 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1645

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:33:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.971	-0.010	0.903	39204	0.2359	883	
2 BFS_A3B	519.00 > 113.00	4.042	4.045	-0.003	0.921	14333	0.0801	37.1	
3 BFS_B3	553.00 > 345.00	4.201	4.203	-0.002	0.957	78195	0.7573	205	
4 BFS_A2B2	569.00 > 229.00	4.305	4.315	-0.010	0.981	78364	1.03	263	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.390	-0.002	0.878	636522	5.46	109	320
5 BFS_A4B	585.00 > 113.00	4.388	4.399	-0.011	1.000	18468	0.0786	113	a a
7 BFS_AB3	619.00 > 229.00	4.565	4.567	-0.002	1.040	306405	3.17	459	
8 BFS_A3B2	635.00 > 113.00	4.658	4.674	-0.016	1.061	58401	0.3287	259	
9 BFS_B4	669.00 > 461.00	4.805	4.805	0.0	1.095	69843	1.20	292	
10 BFS_A2B3	685.00 > 571.00	4.907	4.907	0.0	1.118	2026	0.3691	80.0	M M
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2721588	5.00	315	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-15.d

Injection Date: 10-Aug-2022 05:23:08

Instrument ID: 30733

Lims ID: 410-90799-B-17-A

Lab Sample ID: 410-90799-17

Client ID: MW-41D

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

Worklist Smp#: 15

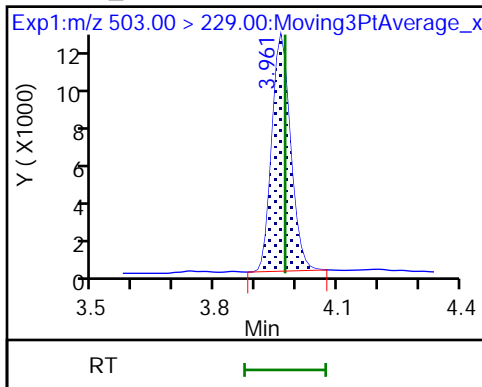
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

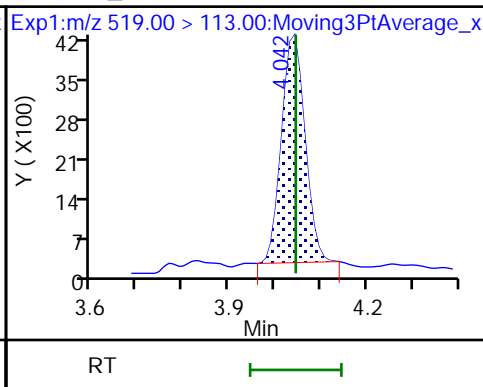
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

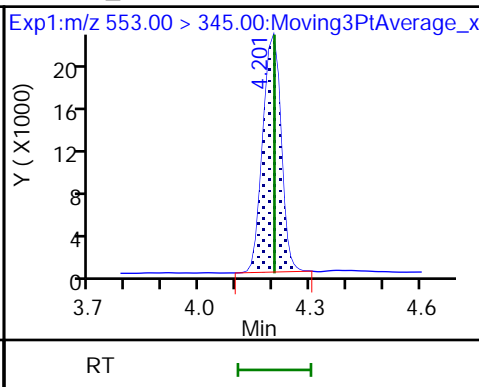
1 BFS_AB2



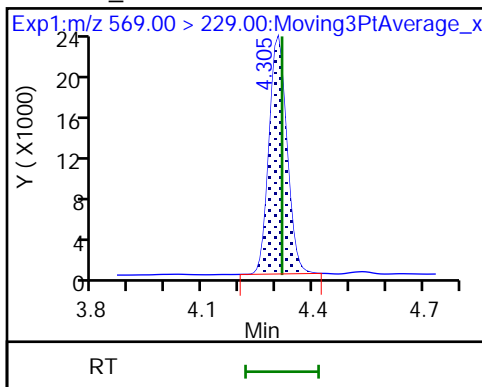
2 BFS_A3B



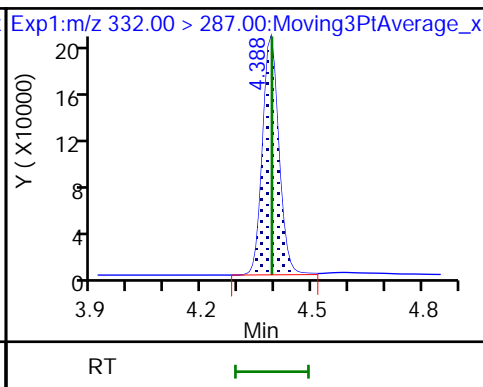
3 BFS_B3



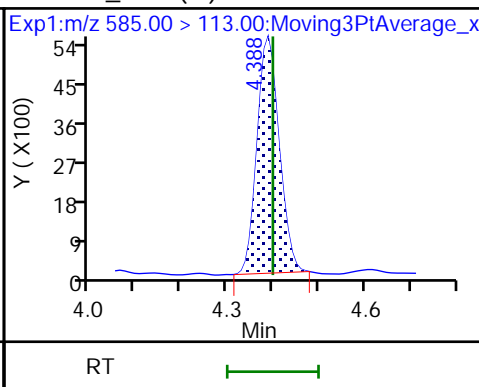
4 BFS_A2B2



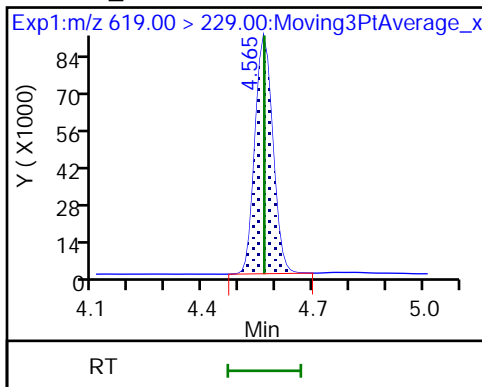
D 6 13C3 HFPO-DA



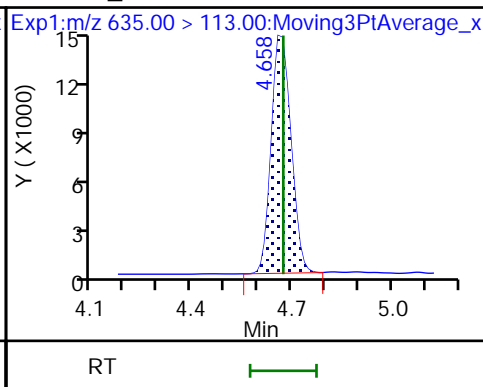
5 BFS_A4B (M)



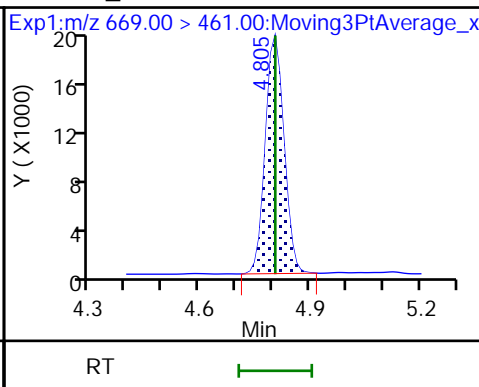
7 BFS_AB3



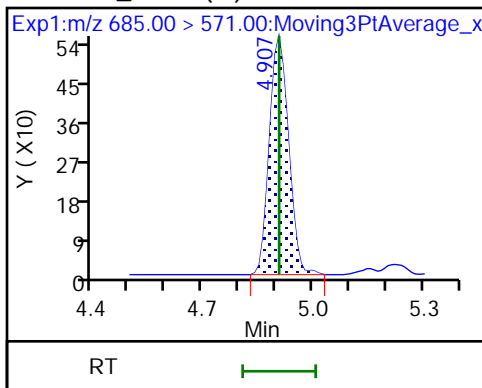
8 BFS_A3B2



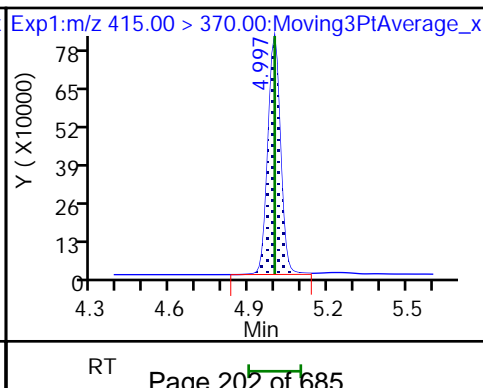
9 BFS_B4



10 BFS_A2B3 (M)



* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

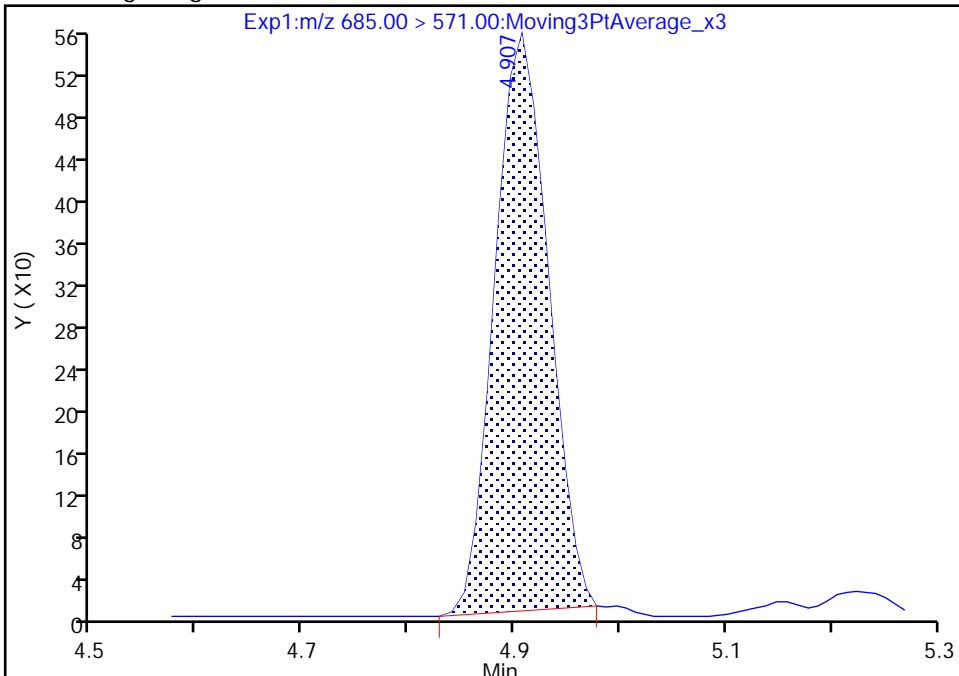
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-15.d
Injection Date: 10-Aug-2022 05:23:08 Instrument ID: 30733
Lims ID: 410-90799-B-17-A Lab Sample ID: 410-90799-17
Client ID: MW-41D
Operator ID: US19_USR_INS20260 ALS Bottle#: 24 Worklist Smp#: 15
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

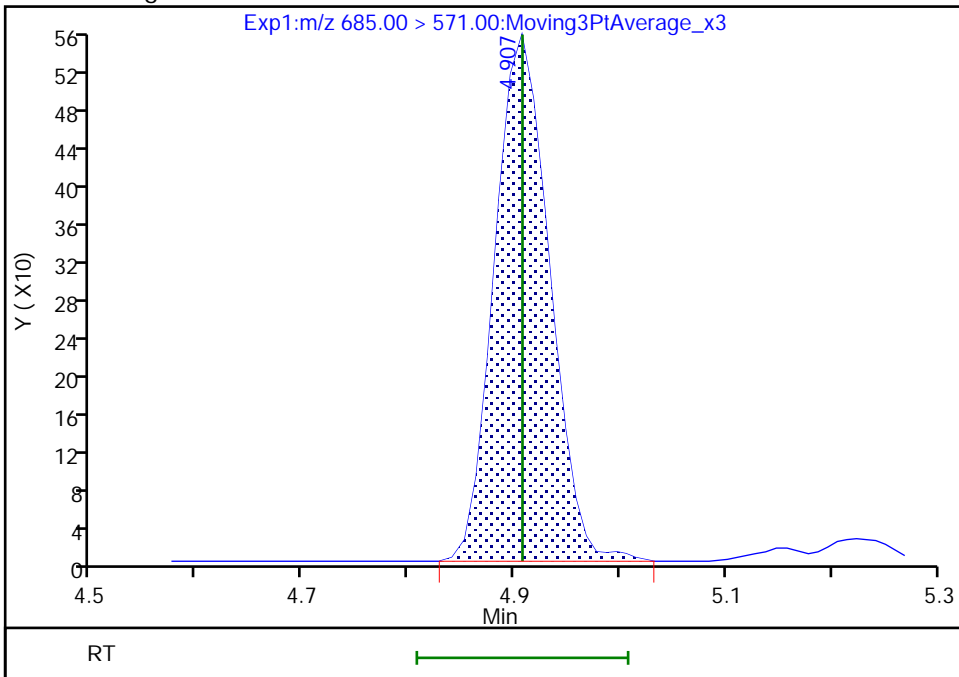
RT: 4.91
Area: 1960
Amount: 0.356897
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 2026
Amount: 0.369148
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 12:33:41
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

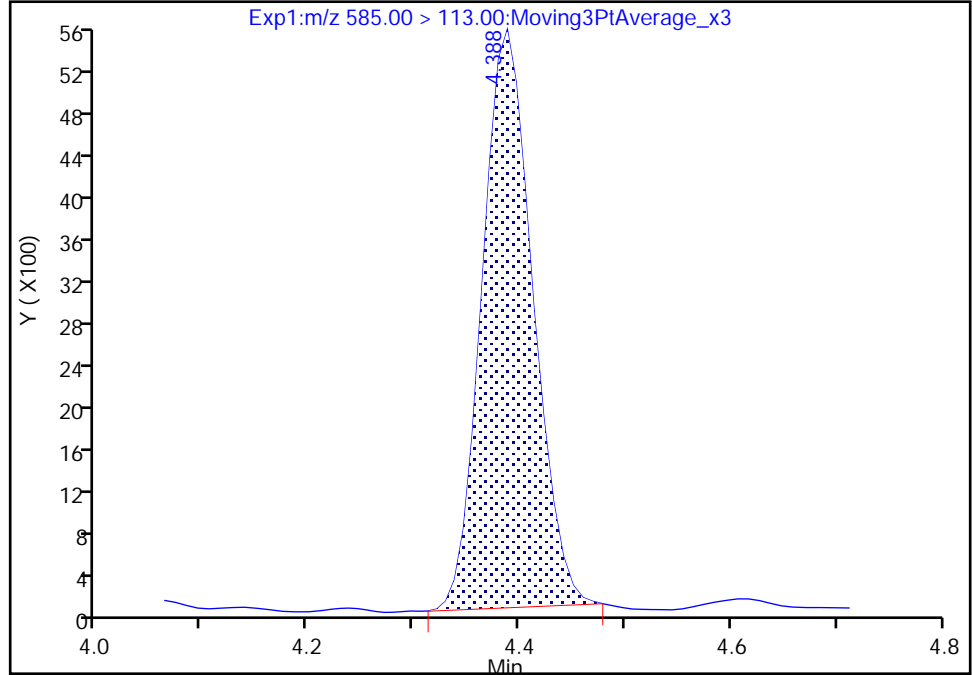
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-15.d
Injection Date: 10-Aug-2022 05:23:08 Instrument ID: 30733
Lims ID: 410-90799-B-17-A Lab Sample ID: 410-90799-17
Client ID: MW-41D
Operator ID: US19_USR_INS20260 ALS Bottle#: 24 Worklist Smp#: 15
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

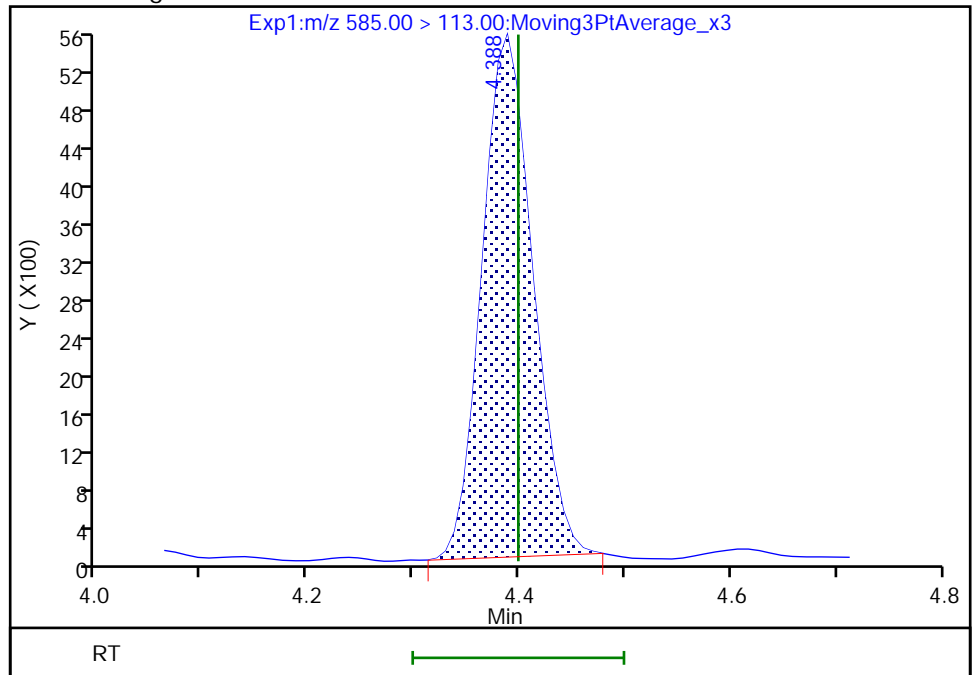
RT: 4.39
Area: 18468
Amount: 0.078640
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 18468
Amount: 0.078640
Amount Units: ng/ml

Manual Integration Results



Reviewer: UJB7, 15-Aug-2022 12:50:20
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Client Sample ID: MW-41D RE

Lab Sample ID: 410-90799-17 RE

Matrix: Water

Lab File ID: 22AUG13BFS-27.d

Analysis Method: BFS

Date Collected: 07/12/2022 14:35

Extraction Method: 3535

Date Extracted: 08/11/2022 10:35

Sample wt/vol: 303(mL)

Date Analyzed: 08/14/2022 08:03

Con. Extract Vol.: 1(mL)

Dilution Factor: 1

Injection Volume: 10(uL)

GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 285708

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	3.0	H	1.2	0.33
STL02887	BFS_A2B3	0.75	J H	0.91	0.33
STL02880	BFS_A3B	ND	H	0.50	0.17
STL02885	BFS_A3B2	0.74	H	0.66	0.17
STL02883	BFS_A4B	ND	H	0.33	0.17
STL02879	BFS_AB2	0.69	H	0.50	0.066
STL02884	BFS_AB3	7.4	H	1.2	0.33
STL02881	BFS_B3	2.0	H	0.58	0.25
STL02886	BFS_B4	2.5	H	0.91	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-27.d
 Lims ID: 410-90799-C-17-A
 Client ID: MW-41D
 Sample Type: Client
 Inject. Date: 14-Aug-2022 08:03:43 ALS Bottle#: 23 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-C-17-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:44:05 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:41:01
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.928	3.932	-0.004	0.904	41576	0.2085	1087	
3 BFS_B3	553.00 > 345.00	4.159	4.163	-0.004	0.957	79477	0.6127	410	
4 BFS_A2B2	569.00 > 229.00	4.262	4.263	-0.001	0.981	79661	0.9161	392	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.346	4.346	0.0	0.877	592127	5.15	103	792
7 BFS_AB3	619.00 > 229.00	4.524	4.525	-0.001	1.041	283645	2.25	864	
8 BFS_A3B2	635.00 > 113.00	4.626	4.627	-0.001	1.064	53889	0.2249	383	
9 BFS_B4	669.00 > 461.00	4.759	4.760	-0.001	1.095	59990	0.7507	481	
10 BFS_A2B3	685.00 > 571.00	4.874	4.874	0.0	1.122	1802	0.2261	96.4	M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2864528	5.00	918	

QC Flag Legend

Processing Flags

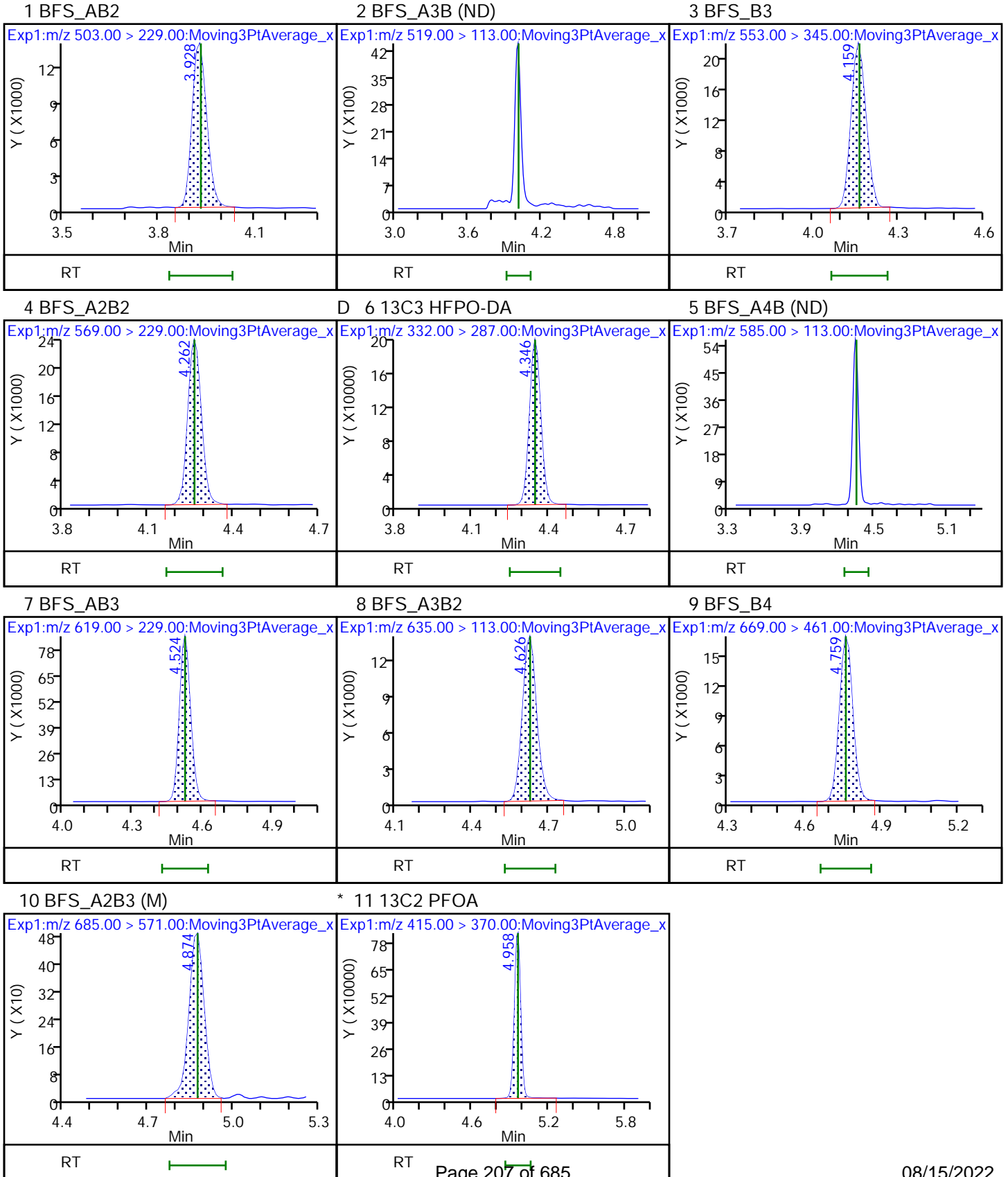
Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-27.d
Injection Date: 14-Aug-2022 08:03:43 Instrument ID: 30733
Lims ID: 410-90799-C-17-A Lab Sample ID: 410-90799-17
Client ID: MW-41D
Operator ID: US19_USR_INS20260 ALS Bottle#: 23 Worklist Smp#: 13
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

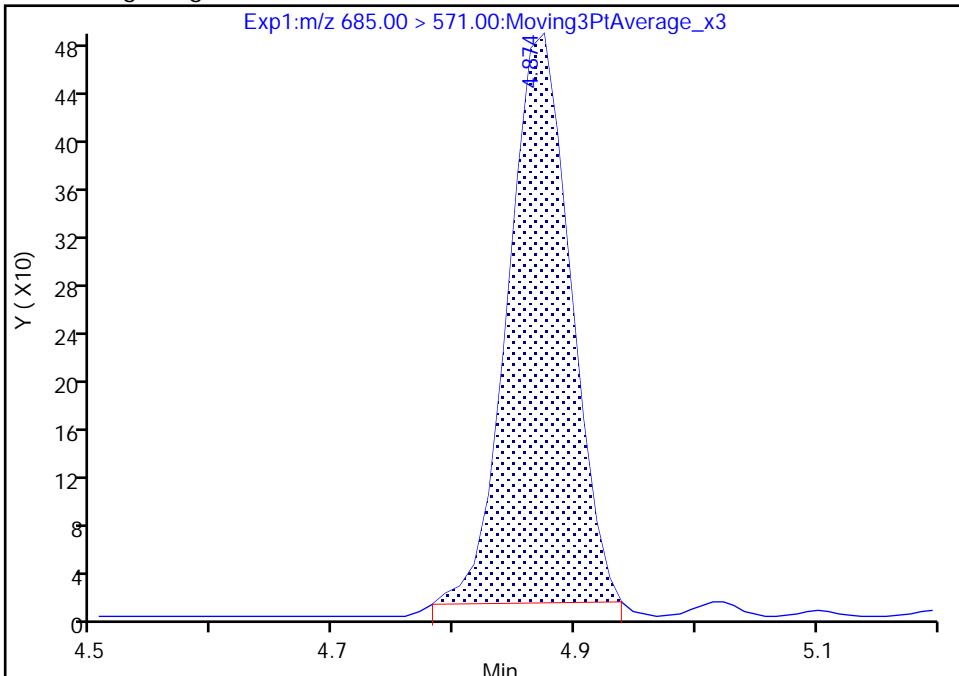
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Injection Date: 14-Aug-2022 08:03:43 Instrument ID: 30733
Lims ID: 410-90799-C-17-A Lab Sample ID: 410-90799-17
Client ID: MW-41D
Operator ID: US19_USR_INS20260 ALS Bottle#: 23 Worklist Smp#: 13
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

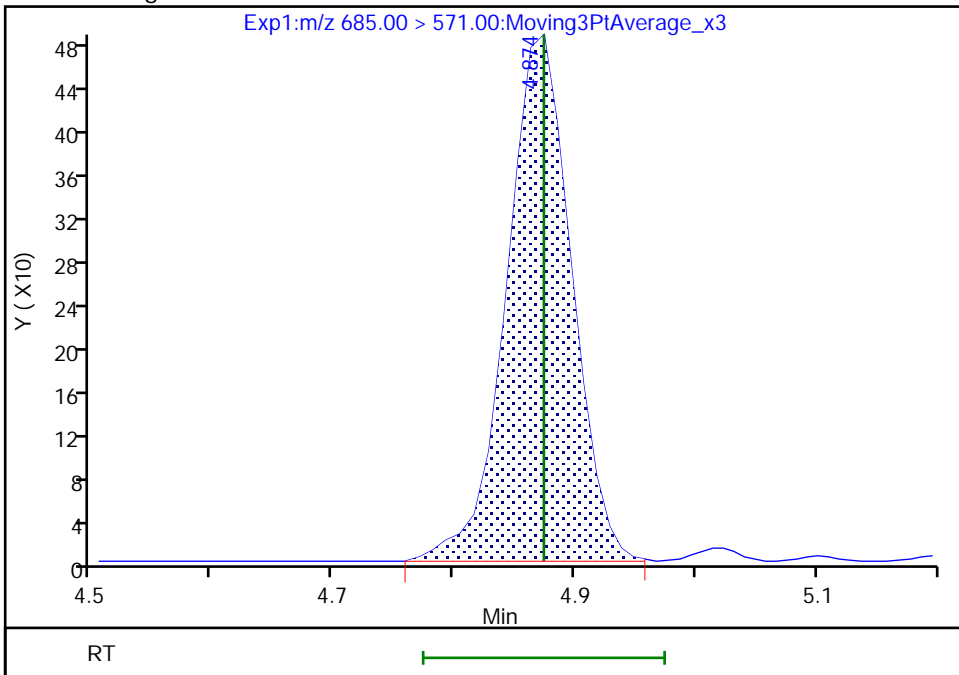
RT: 4.87
Area: 1687
Amount: 0.211611
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 1802
Amount: 0.226100
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:40:59
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 208 of 685

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
BFS_AB2	1.3404 1.3818	1.0770 1.3144	1.2184 1.4058	1.4039 1.3598	1.3838 1.4691	Q2ID	-0.00 2	1.314 8	0.0018105					0.9940		0.9900	
BFS_A3B	1.4208 1.5761	1.2747 1.5028	1.3456 1.6067	1.5329 1.4982	1.5943 1.7531	Q2ID	-0.00 7	1.486 0	0.0025242					0.9960		0.9900	
BFS_B3	0.7176 0.8457	0.7507 0.8215	0.7947 0.8649	0.8386 0.8343	0.8851 0.8499	L1ID	-0.02 7	0.847 0						1.0000		0.9900	
BFS_A2B2	0.5705 0.6138	0.5459 0.5822	0.5584 0.6040	0.5988 0.5628	0.6106 0.5559	L1ID	0.030 8	0.566 5						0.9990		0.9900	
BFS_A4B	1.7634 1.9293	1.8869 1.9086	1.8419 1.9499	1.8717 1.9071	1.9847 1.9633	L1ID	-0.00 8	1.945 3						1.0000		0.9900	
BFS_AB3	0.7412 0.7786	0.7385 0.7256	0.7565 0.7279	0.7607 0.6898	0.7988 0.6494	Q2ID	-0.01 0	0.763 3	-0.000169					0.9990		0.9900	
BFS_A3B2	1.3479 1.4587	1.2949 1.3295	1.3965 1.4715	1.4205 1.3884	1.4313 1.3327	Q2ID	-0.00 6	1.414 9	-0.000549					0.9990		0.9900	
BFS_B4	0.4078 0.4627	0.4878 0.4887	0.4421 0.4678	0.4711 0.4603	0.4783 0.4481	L1ID	0.003 0	0.456 1						0.9990		0.9900	
BFS_A2B3	++++ 0.0410	++++ 0.0423	0.0463 0.0429	0.0526 0.0452	0.0384 0.0445	Q2ID	0.000 3	0.042 2	0.0002171					0.9900		0.9900	
13C3 HFPO-DA	0.2198 0.2053	0.2184 0.2197	0.2232 0.2168	0.2111 0.2105	0.2122 0.2054	Ave		0.214 3			2.9						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		Q2ID	7810	19911	59281	168892	326863	0.0445	0.134	0.356	0.891	1.78
			783975	1538103	3198611	5851103	15424775	4.45	8.91	17.8	35.6	89.1
BFS_A3B		Q2ID	9252	26338	73171	206104	420871	0.0498	0.149	0.398	0.995	1.99
			999379	1965503	4085759	7205025	20573000	4.98	9.95	19.9	39.8	99.5
BFS_B3		L1ID	14879	49391	137604	359047	744046	0.158	0.475	1.27	3.17	6.34
			1707610	3421113	7003349	12776032	31759941	15.8	31.7	63.4	127	317
BFS_A2B2		L1ID	25907	78667	211759	561437	1124117	0.347	1.04	2.78	6.94	13.9
			2714045	5309692	10710611	18872981	45491370	34.7	69.4	139	278	694
BFS_A4B		L1ID	6346	21546	55352	139072	289554	0.0275	0.0825	0.220	0.550	1.10
			676057	1379451	2740234	5068364	12732378	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID	36072	114037	307463	764392	1576044	0.372	1.12	2.98	7.44	14.9
			3689715	7092409	13833158	24793733	56956631	37.2	74.4	149	298	744
BFS_A3B2		Q2ID	11549	35204	99924	251306	497178	0.0655	0.196	0.524	1.31	2.62
			1217047	2287806	4923751	8785418	20577614	6.55	13.1	26.2	52.4	131
BFS_B4		L1ID	4612	17506	41754	110007	219296	0.0864	0.259	0.692	1.73	3.46
			509550	1110166	2066265	3844514	9133524	8.64	17.3	34.6	69.2	173
BFS_A2B3		Q2ID	+++++	+++++	331	931	1335	+++++	+++++	0.0524	0.131	0.262
			3417	7278	14370	28574	68639	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	654204	691937	682883	675382	663036	5.00	5.00	5.00	5.00	5.00
			637015	656951	638673	603912	589465	5.00	5.00	5.00	5.00	5.00

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Curve Type Legend

Ave = Average ISTD L1ID = Linear 1/conc IsoDil Q2ID = Quadratic 1/conc ² IsoDil
--

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
BFS_AB2	5.9	-16.8	-6.9	6.8	5.1	4.5	50	30	30	30	30	30
	-1.2	4.3	-1.3	-0.4			30	30	30	30		
BFS_A3B	4.4	-11.3	-8.4	3.4	7.1	5.2	50	30	30	30	30	30
	-0.5	4.5	-5.2	0.8			30	30	30	30		
BFS_B3	5.0	-4.6	-3.6	0.0	5.0	0.1	50	30	30	30	30	30
	-2.9	2.2	-1.5	0.4			30	30	30	30		
BFS_A2B2	-15.0	-8.8	-3.4	4.9	7.4	8.2	50	30	30	30	30	30
	2.7	6.6	-0.7	-1.9			30	30	30	30		
BFS_A4B	5.4	1.9	-3.5	-3.0	2.4	-0.7	50	30	30	30	30	30
	-1.8	0.3	-1.9	0.9			30	30	30	30		
BFS_AB3	0.6	-2.1	-0.4	0.0	5.1	2.9	50	30	30	30	30	30
	-3.4	-1.4	-3.5	2.4			30	30	30	30		
BFS_A3B2	2.0	-6.2	-0.4	0.8	1.4	3.4	50	30	30	30	30	30
	-5.6	5.1	0.2	-0.8			30	30	30	30		
BFS_B4	-18.2	4.4	-4.0	2.9	4.7	1.4	50	30	30	30	30	30
	7.1	2.6	0.9	-1.8			30	30	30	30		
BFS_A2B3	+++++	+++++	-4.8	18.9	-11.9	-4.3			50	30	30	30
	-0.9	0.2	4.0	-1.2			30	30	30	30		
13C3 HFPO-DA		1.9	4.2	-1.5	-0.9	-4.2		30	30	30	30	30
	2.5	1.2	-1.7	-4.1			30	30	30	30		

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Aug-2022 00:03:08 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:43 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:40:08

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.971	3.964	0.007	0.903	7810	0.0472	106	153	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.920	9252	0.0520	104	59.3	M
3 BFS_B3									M
553.00 > 345.00	4.216	4.203	0.013	0.958	14879	0.1664	105	52.7	M
4 BFS_A2B2									M
569.00 > 229.00	4.315	4.306	0.009	0.981	25907	0.2952	85.0	142	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.398	4.390	0.008	0.879	654204	5.13	103	274	
5 BFS_A4B									M
585.00 > 113.00	4.407	4.395	0.012	1.002	6346	0.0290	105	78.4	M
7 BFS_AB3									
619.00 > 229.00	4.577	4.569	0.008	1.041	36072	0.3742	101	222	
8 BFS_A3B2									M
635.00 > 113.00	4.687	4.671	0.016	1.066	11549	0.0668	102	82.9	M
9 BFS_B4									M
669.00 > 461.00	4.817	4.807	0.010	1.095	4612	0.0707	81.8	14.4	M
* 11 13C2 PFOA									
415.00 > 370.00	5.006	4.998	0.008		2976612	5.00		333	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

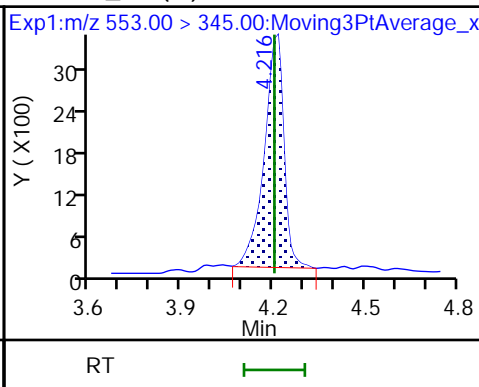
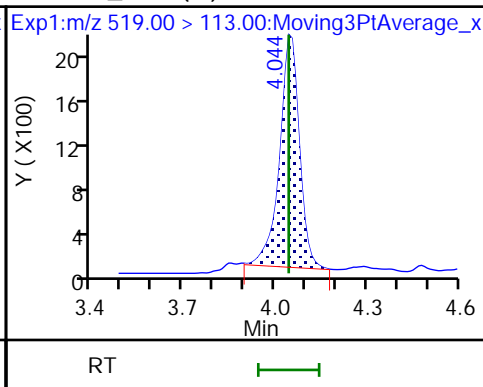
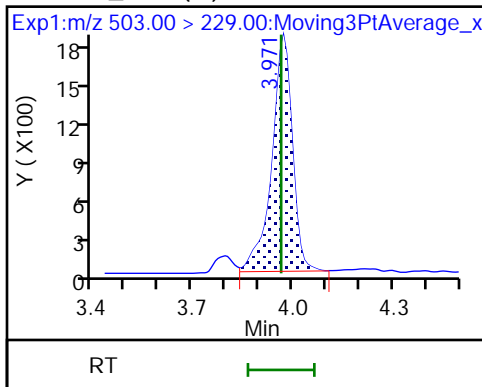
Amount Added: 200.00

Units: uL

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2 BFS_A3B (M)

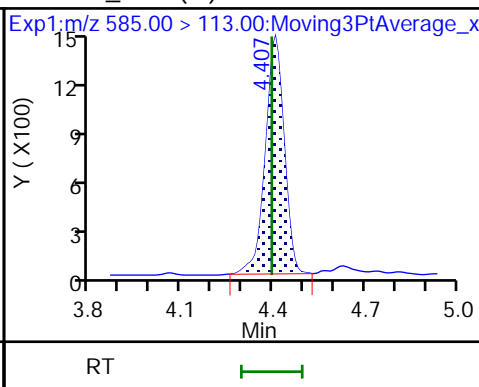
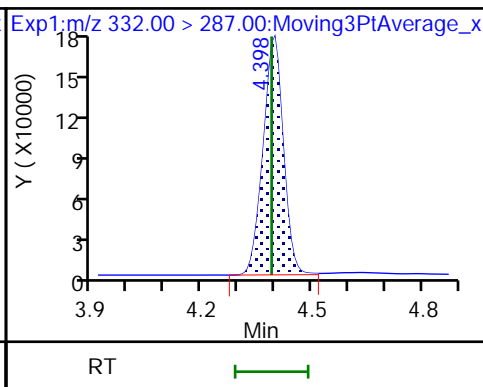
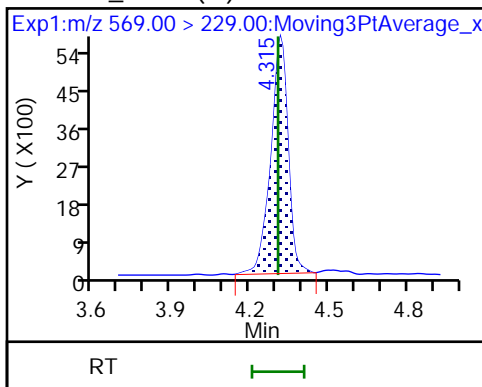
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

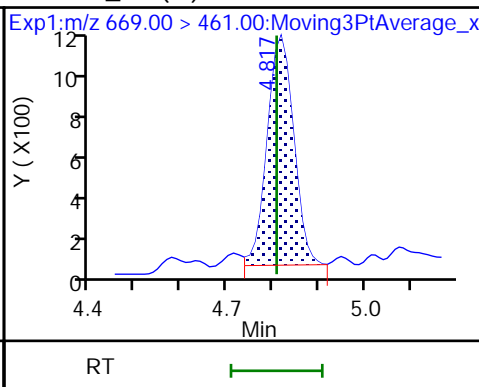
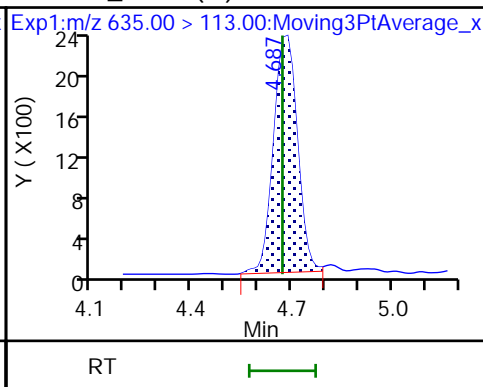
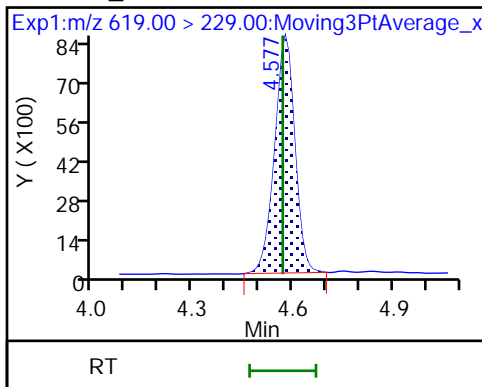
5 BFS_A4B (M)



7 BFS_AB3

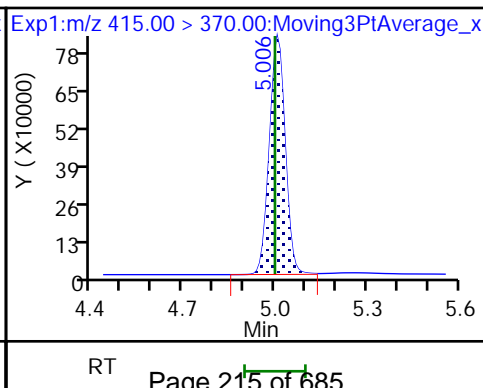
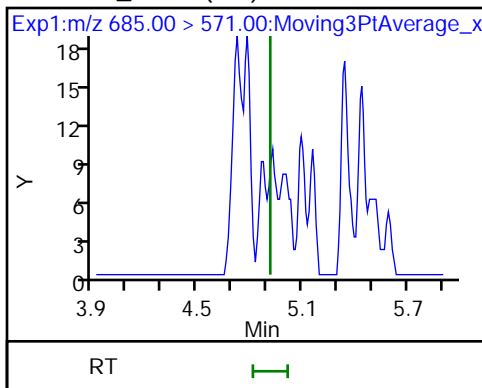
8 BFS_A3B2 (M)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

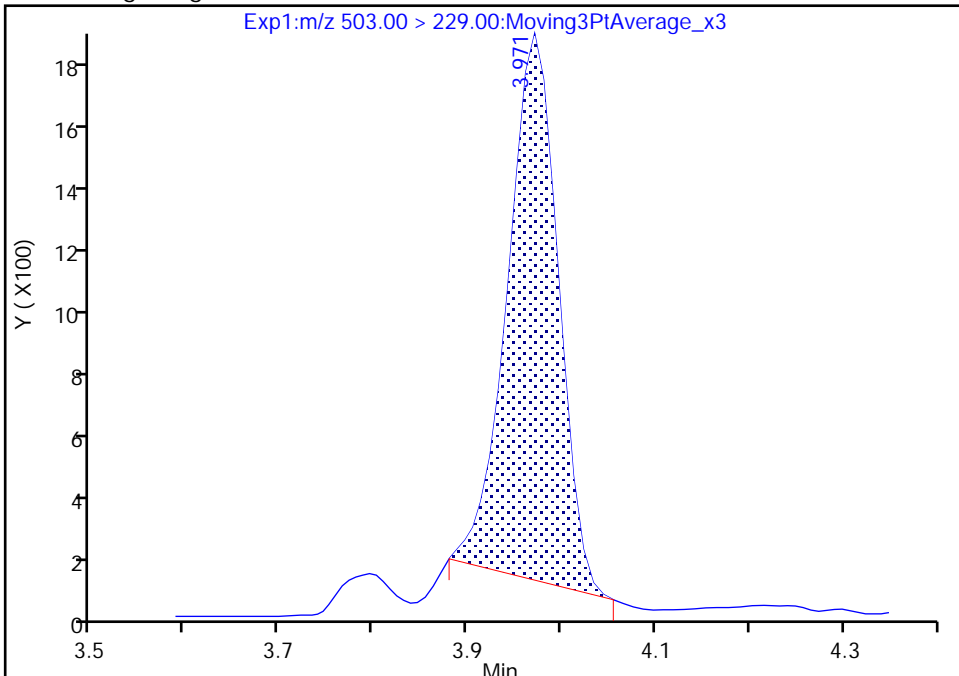
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Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

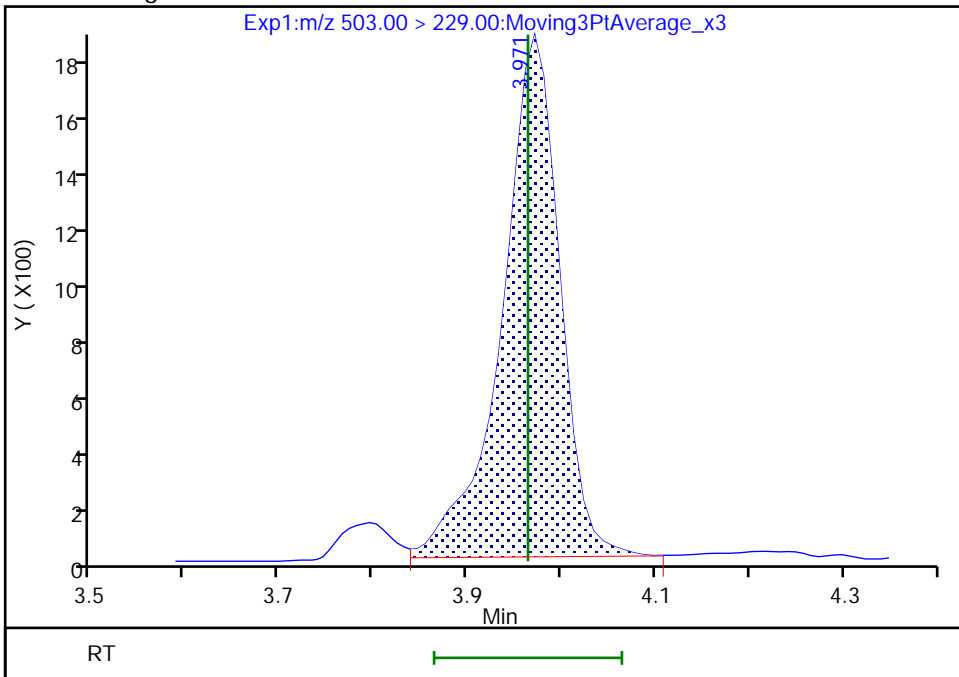
RT: 3.97
Area: 6499
Amount: 0.058350
Amount Units: ng/ml

Processing Integration Results



RT: 3.97
Area: 7810
Amount: 0.047173
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

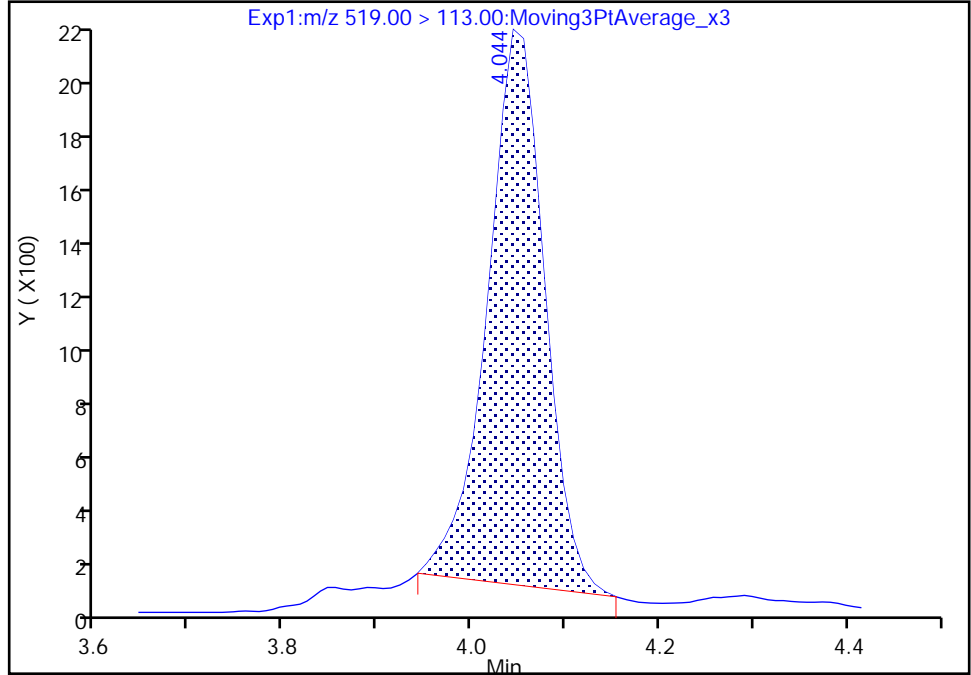
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

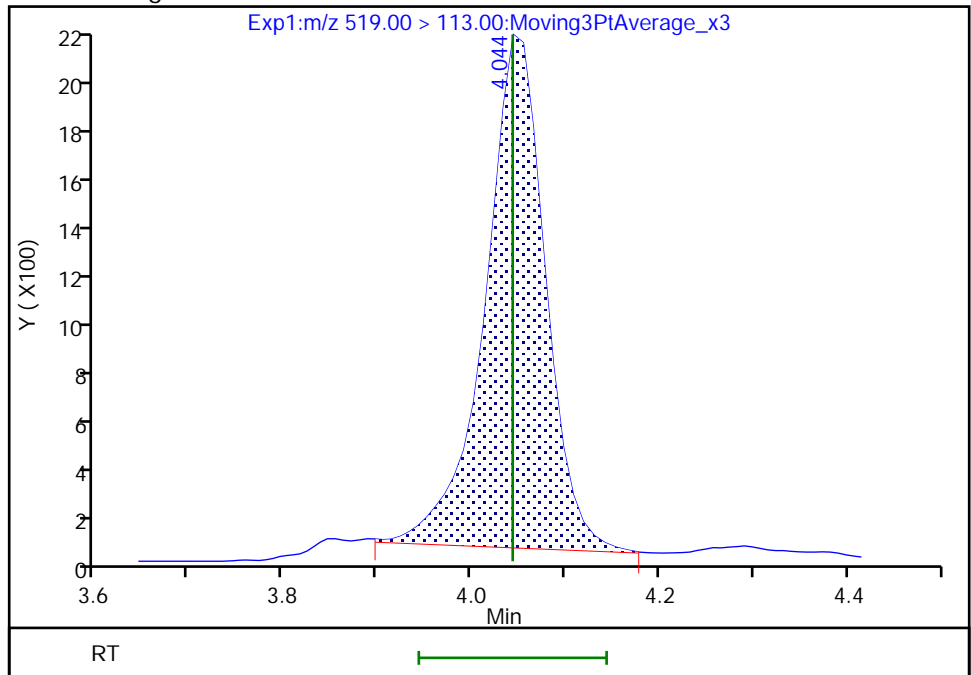
RT: 4.04
Area: 8564
Amount: 0.072269
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 9252
Amount: 0.051967
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:29
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

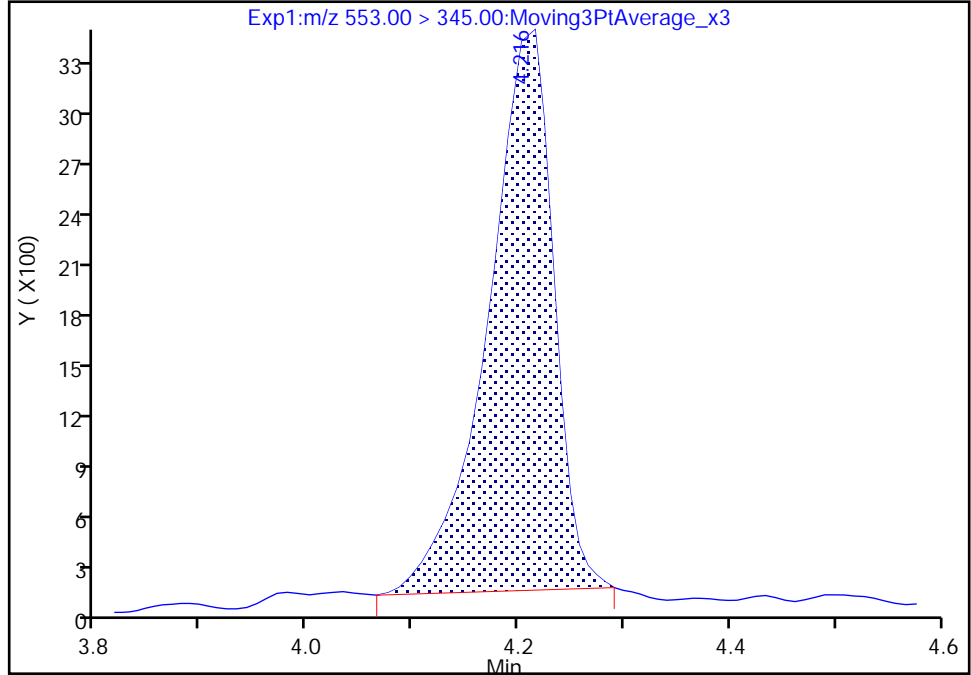
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

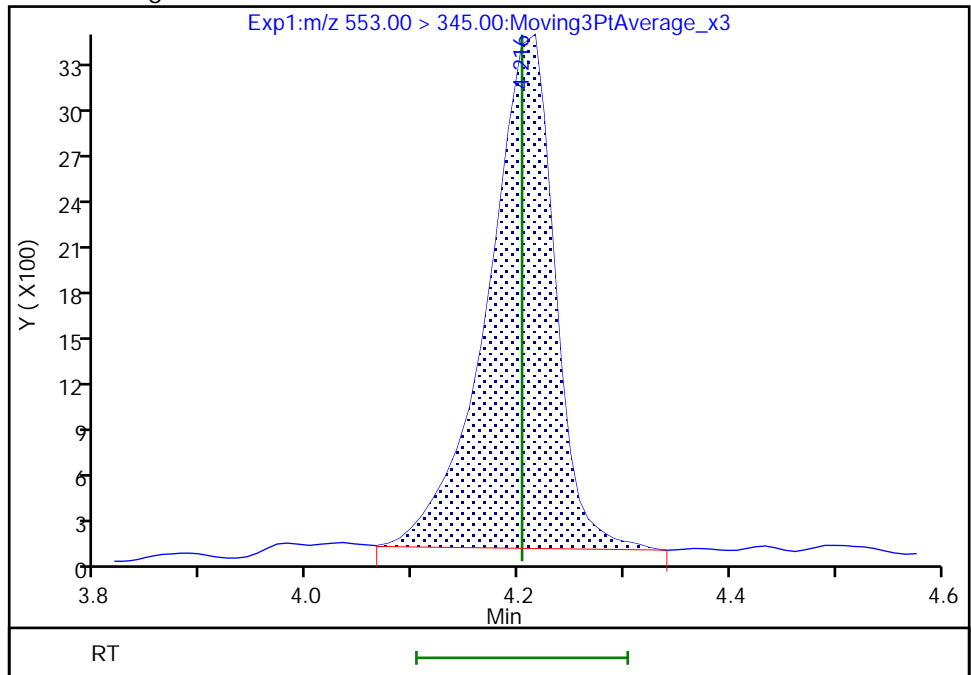
RT: 4.22
Area: 14282
Amount: 0.171226
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 14879
Amount: 0.166402
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:34
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

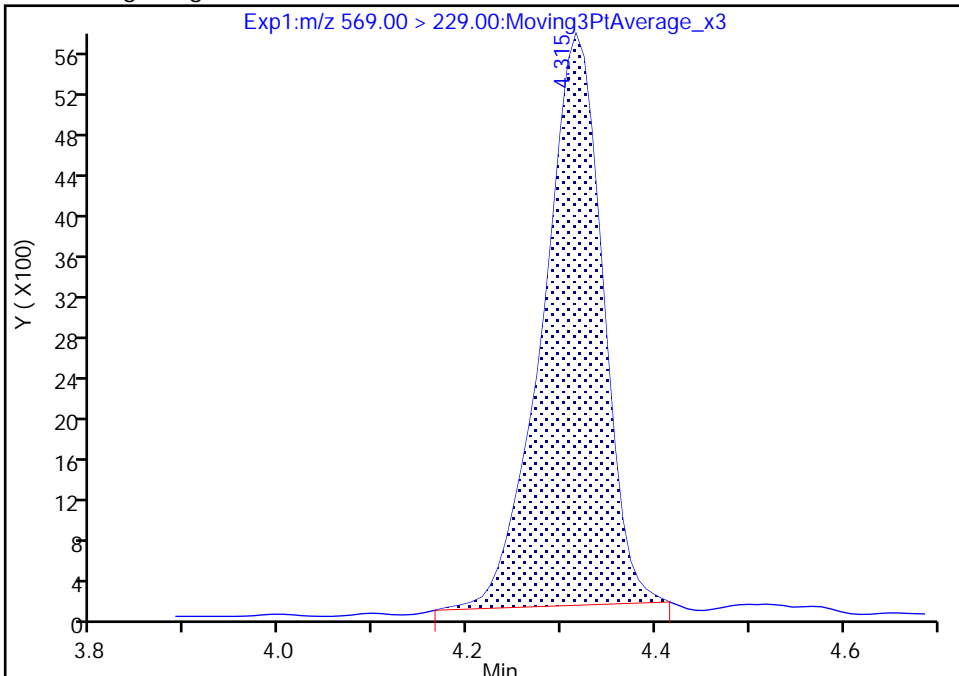
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

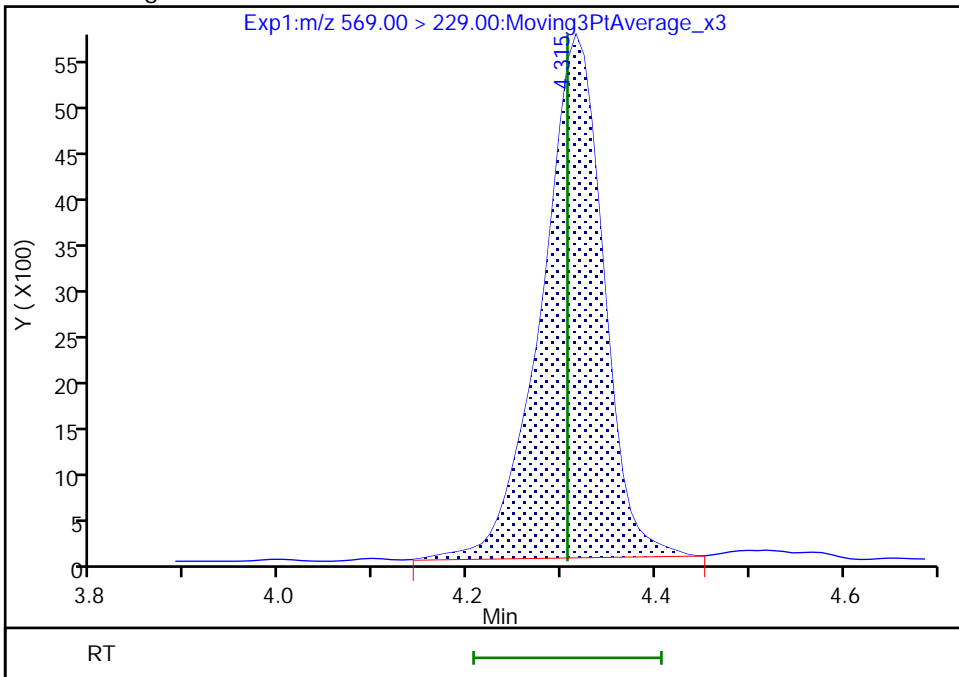
RT: 4.32
Area: 24789
Amount: 0.323697
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 25907
Amount: 0.295178
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:38
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

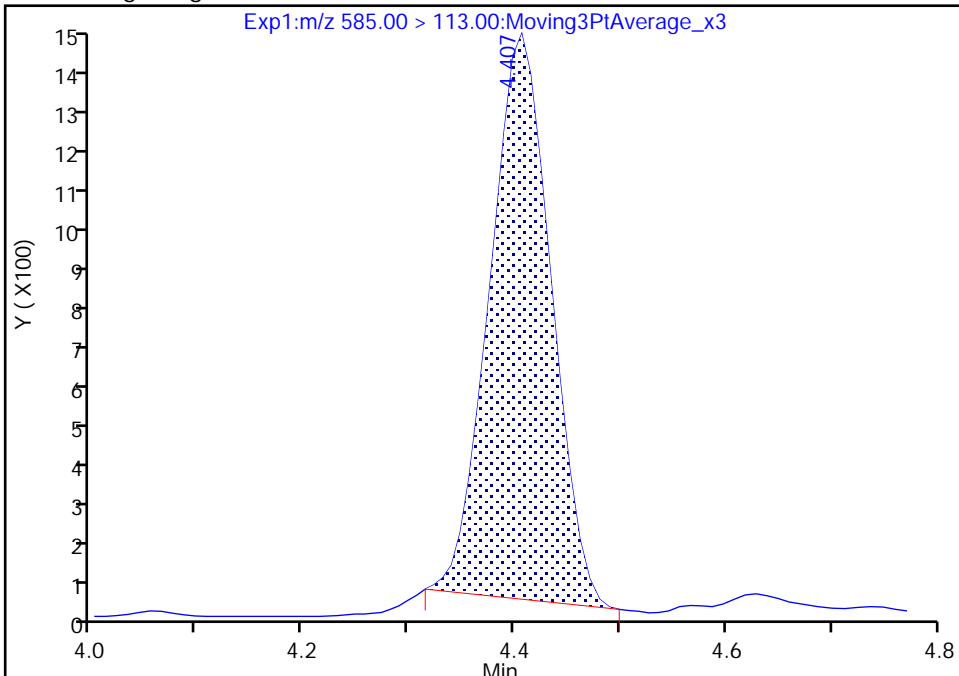
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

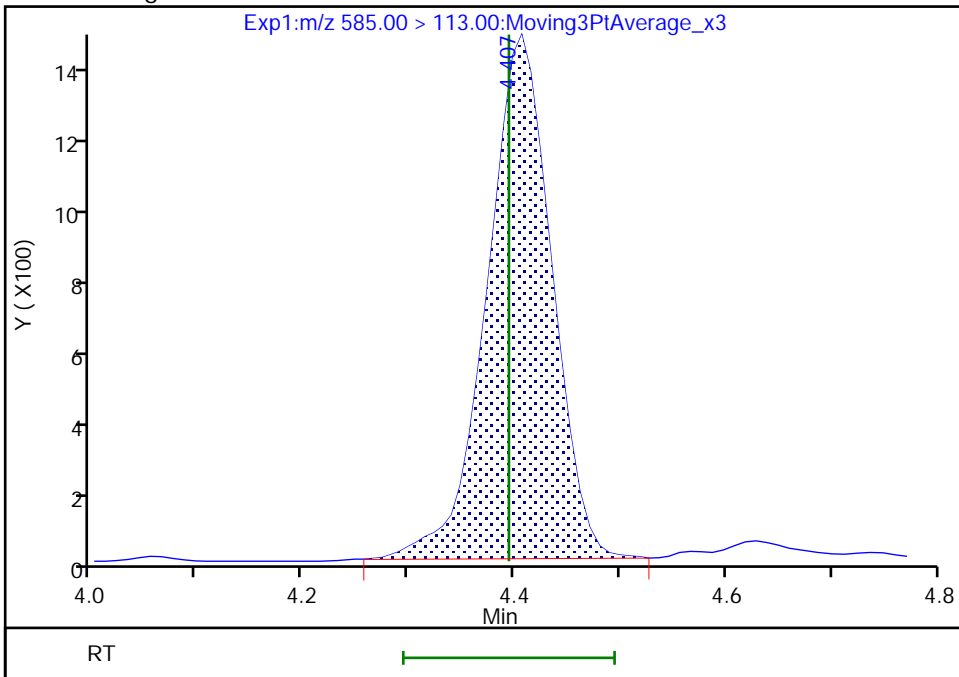
RT: 4.41
Area: 5853
Amount: 0.029763
Amount Units: ng/ml

Processing Integration Results



RT: 4.41
Area: 6346
Amount: 0.029000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:43
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

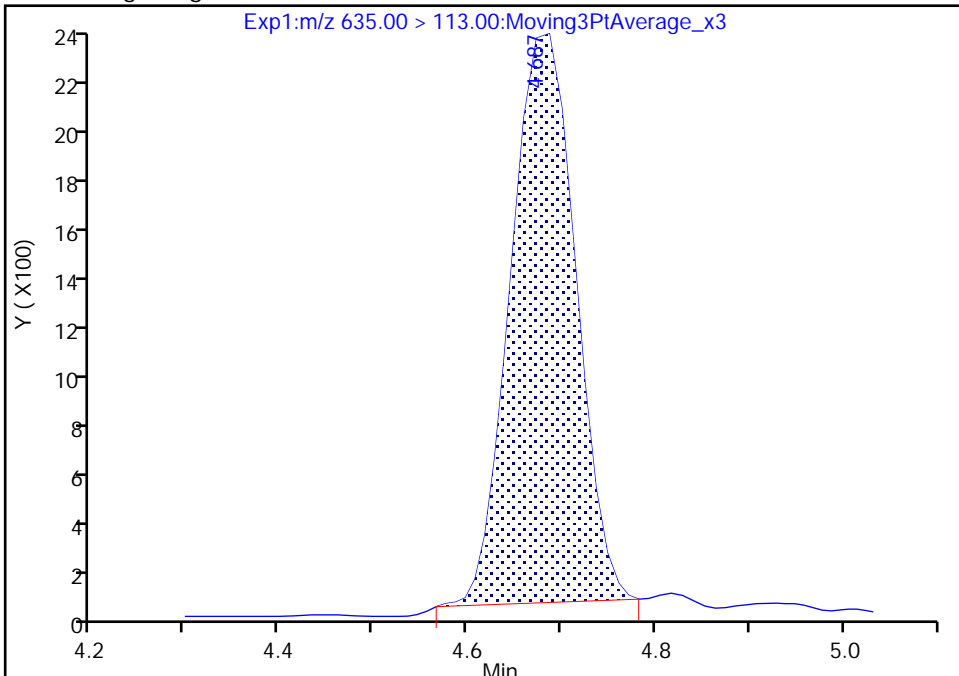
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

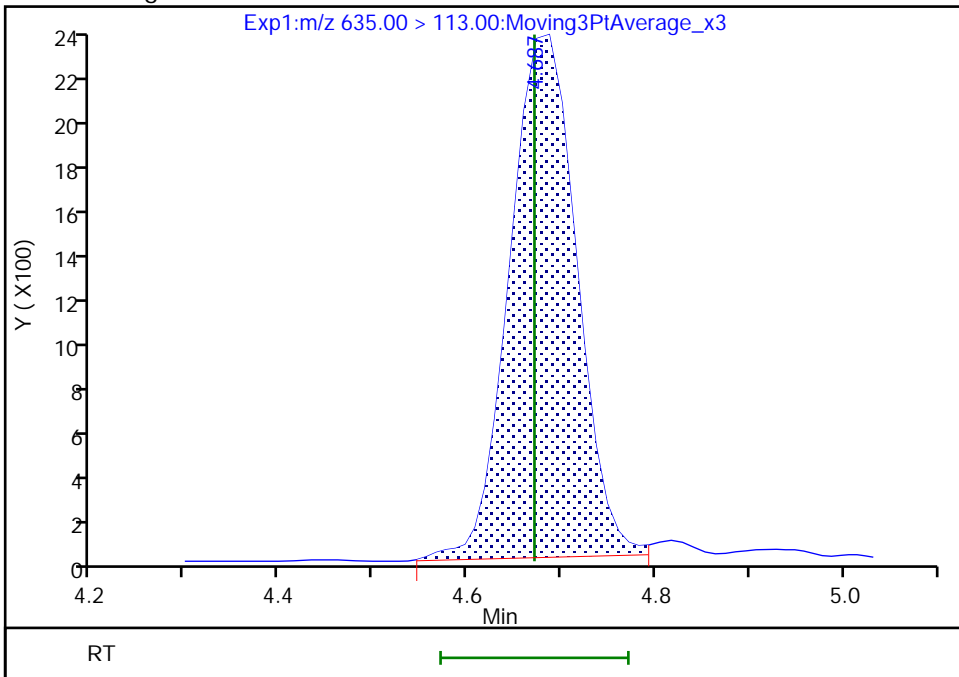
RT: 4.69
Area: 11007
Amount: 0.056855
Amount Units: ng/ml

Processing Integration Results



RT: 4.69
Area: 11549
Amount: 0.066819
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

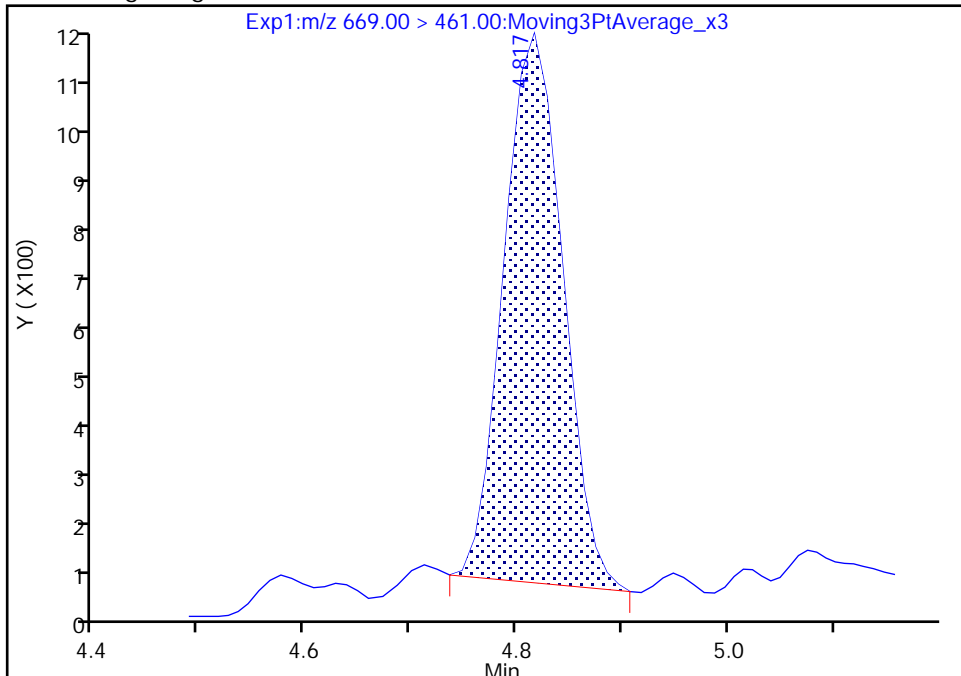
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

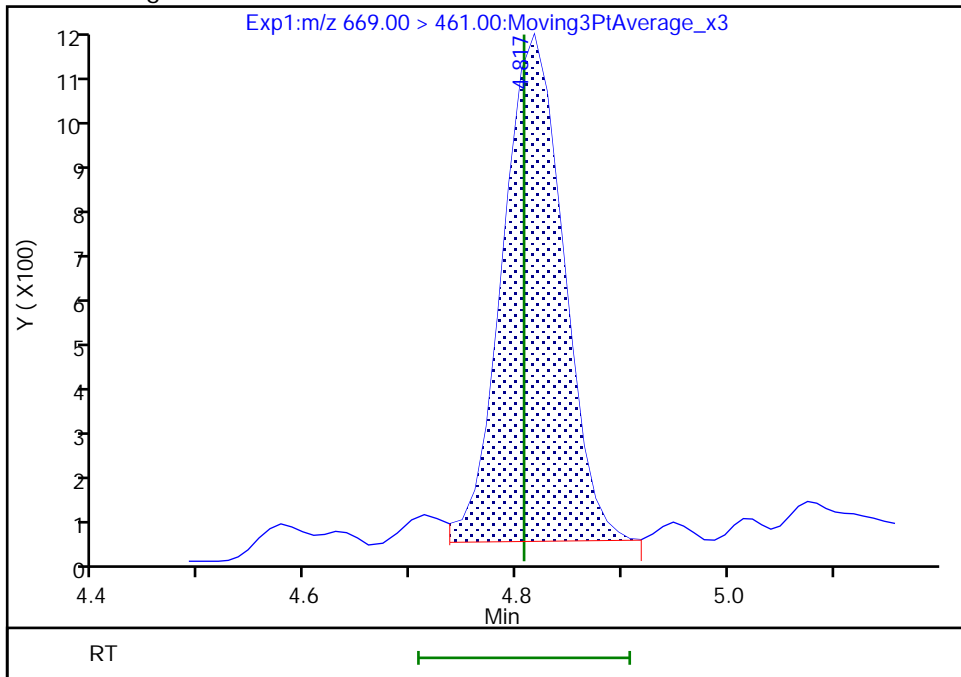
RT: 4.82
Area: 4379
Amount: 0.069390
Amount Units: ng/ml

Processing Integration Results



RT: 4.82
Area: 4612
Amount: 0.070746
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:40:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Aug-2022 00:15:42 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:44 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:00

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.962	3.964	-0.002	0.902	19911	0.1112	83.2	387
2 BFS_A3B	519.00 > 113.00	4.045	4.044	0.001	0.921	26338	0.1324	88.7	57.5
3 BFS_B3	553.00 > 345.00	4.203	4.203	0.0	0.957	49391	0.4535	95.4	82.5
4 BFS_A2B2	569.00 > 229.00	4.307	4.306	0.001	0.981	78667	0.9491	91.2	143
D 6 13C3 HFPO-DA	332.00 > 287.00	4.391	4.390	0.001	0.878	691937	5.10	102	315
5 BFS_A4B	585.00 > 113.00	4.399	4.395	0.004	1.002	21546	0.0841	102	150 M
7 BFS_AB3	619.00 > 229.00	4.577	4.569	0.008	1.043	114037	1.09	97.9	202
8 BFS_A3B2	635.00 > 113.00	4.677	4.671	0.006	1.065	35204	0.1842	93.8	140
9 BFS_B4	669.00 > 461.00	4.809	4.807	0.002	1.095	17506	0.2708	104	37.5
* 11 13C2 PFOA	415.00 > 370.00	5.000	4.998	0.002		3168748	5.00		342

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d

Injection Date: 09-Aug-2022 00:15:42

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

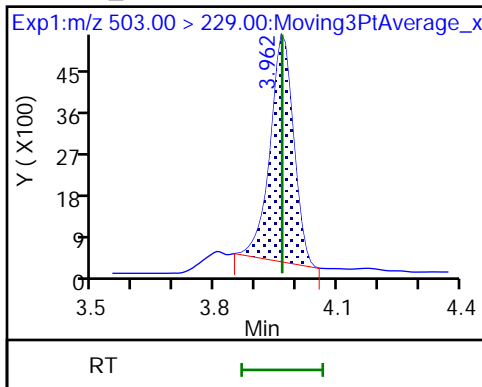
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

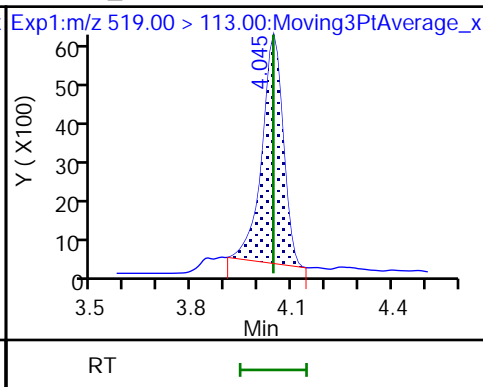
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

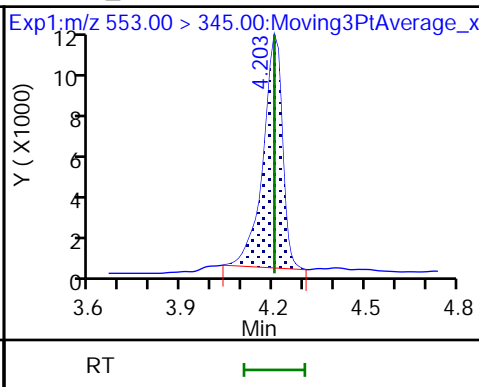
1 BFS_AB2



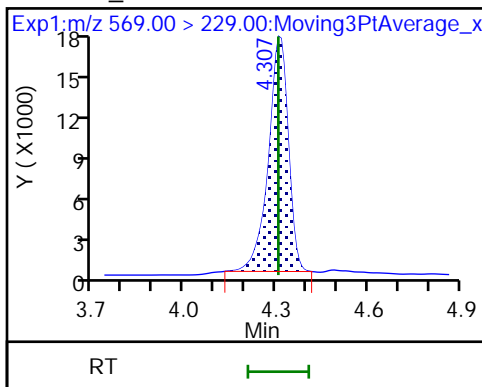
2 BFS_A3B



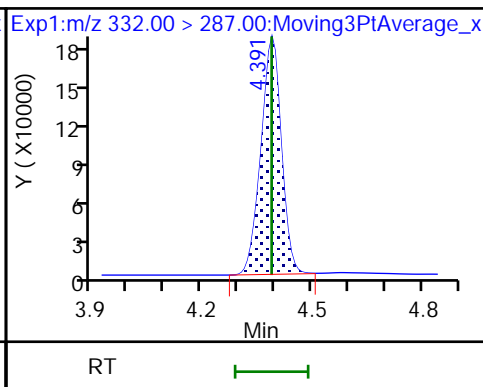
3 BFS_B3



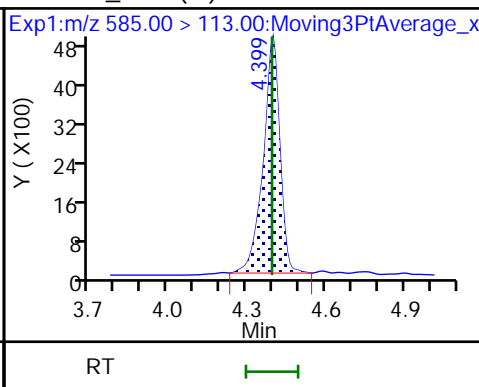
4 BFS_A2B2



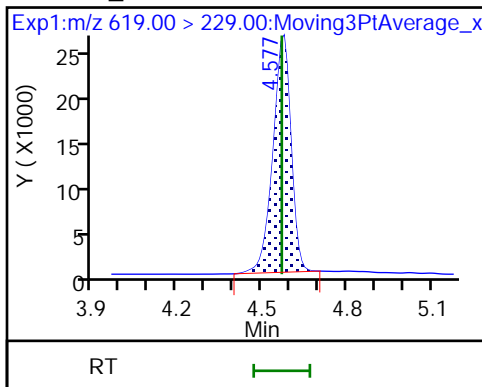
D 6 13C3 HFPO-DA



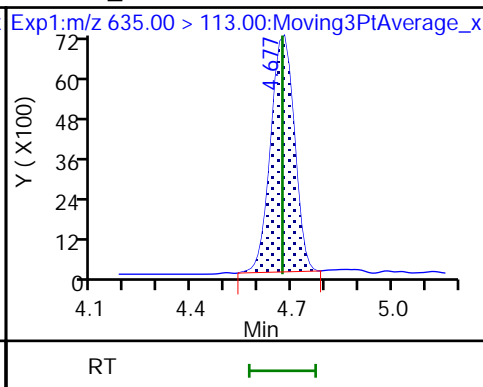
5 BFS_A4B (M)



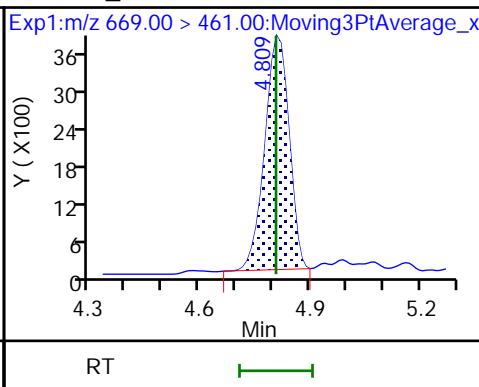
7 BFS_AB3



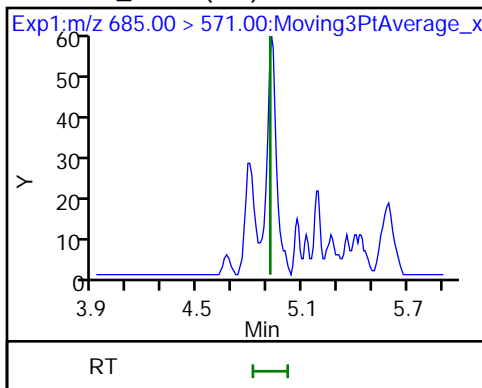
8 BFS_A3B2



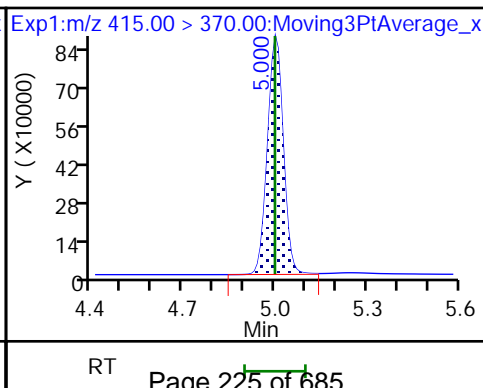
9 BFS_B4



10 BFS_A2B3 (ND)



* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

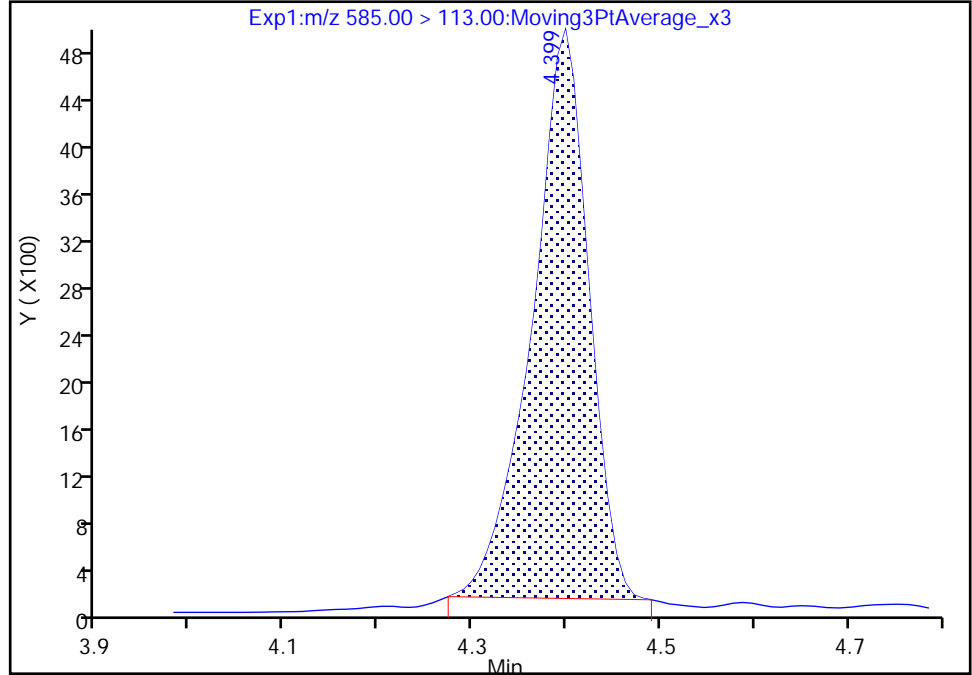
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d
Injection Date: 09-Aug-2022 00:15:42 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

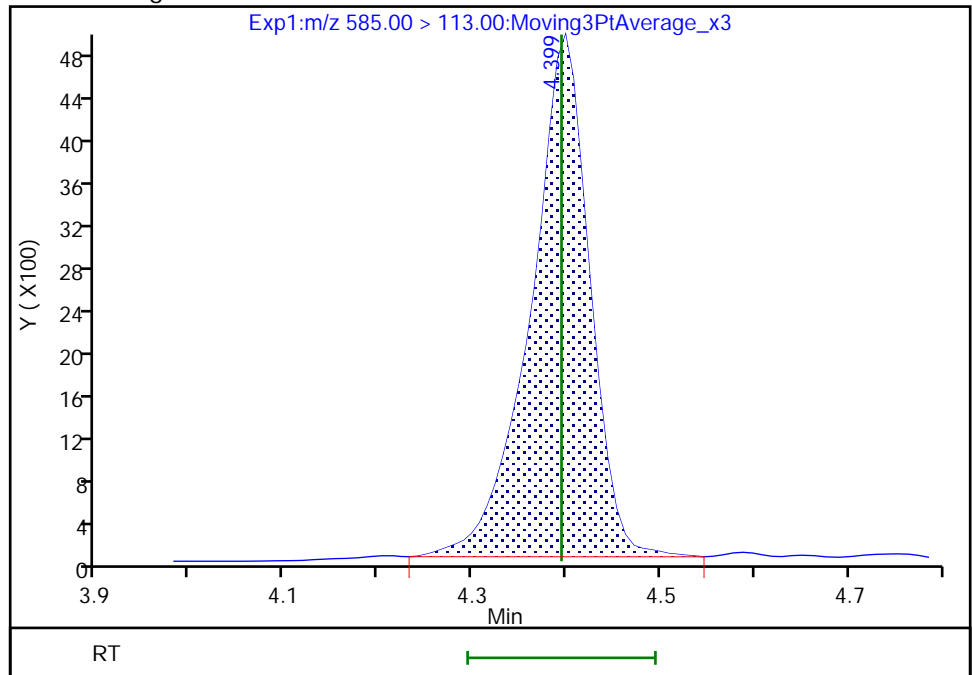
RT: 4.40
Area: 20345
Amount: 0.080727
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 21546
Amount: 0.084101
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:40:54
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Aug-2022 00:28:16 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:45 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:40

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.962	3.964	-0.002	0.902	59281	0.3318	93.1	842	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.921	73171	0.3647	91.6	71.4	M
3 BFS_B3									M
553.00 > 345.00	4.203	4.203	0.0	0.957	137604	1.22	96.4	94.9	M
4 BFS_A2B2									
569.00 > 229.00	4.307	4.306	0.001	0.981	211759	2.68	96.6	155	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.390	4.390	0.0	0.879	682883	5.21	104	291	
5 BFS_A4B									
585.00 > 113.00	4.399	4.395	0.004	1.002	55352	0.2124	96.5	128	
7 BFS_AB3									
619.00 > 229.00	4.567	4.569	-0.002	1.040	307463	2.96	99.6	213	
8 BFS_A3B2									
635.00 > 113.00	4.673	4.671	0.002	1.065	99924	0.5216	99.6	173	
9 BFS_B4									
669.00 > 461.00	4.805	4.807	-0.002	1.094	41754	0.6637	96.0	90.7	
10 BFS_A2B3									M
685.00 > 571.00	4.939	4.915	0.024	1.125	331	0.0499	95.2	10.5	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.001		3059096	5.00		325	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d

Injection Date: 09-Aug-2022 00:28:16

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

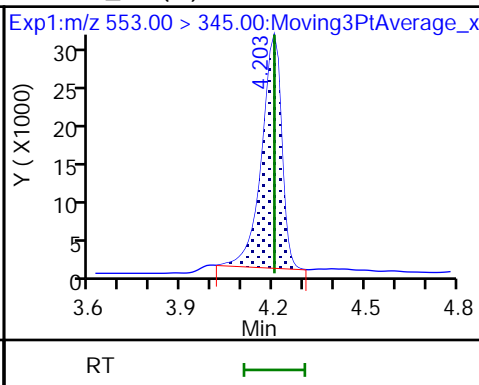
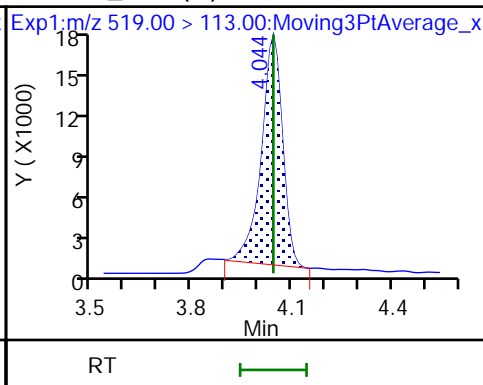
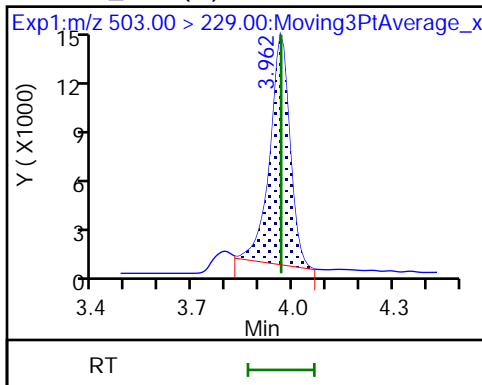
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

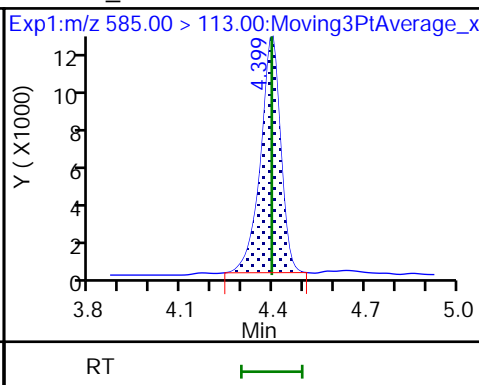
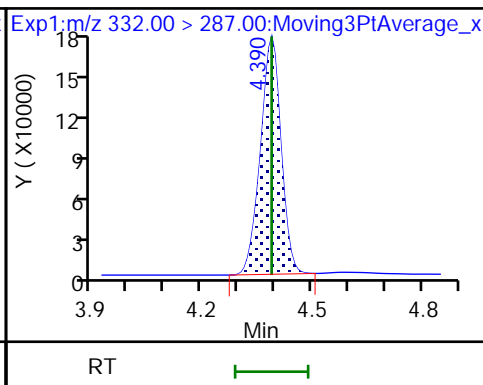
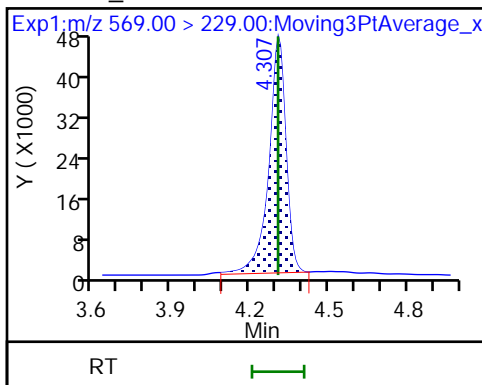
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

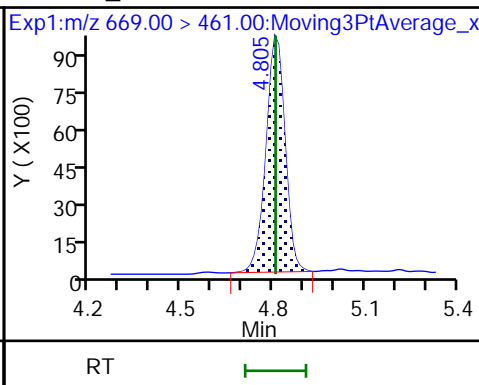
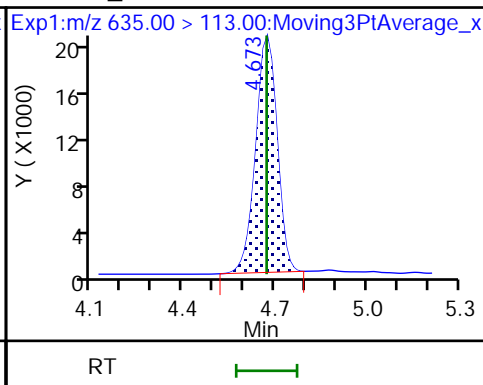
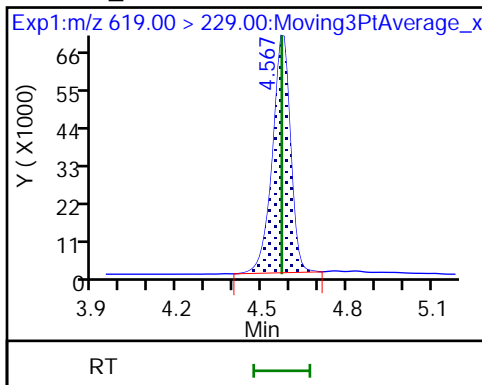
5 BFS_A4B



7 BFS_AB3

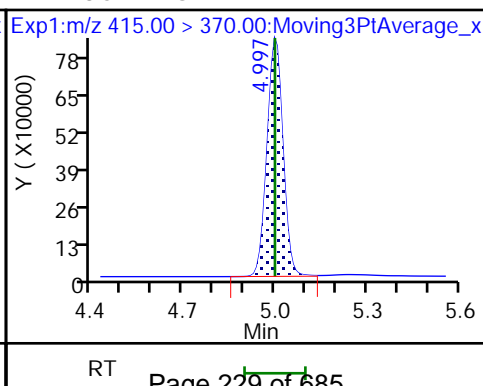
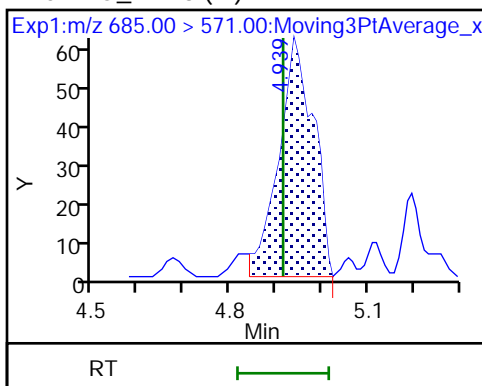
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

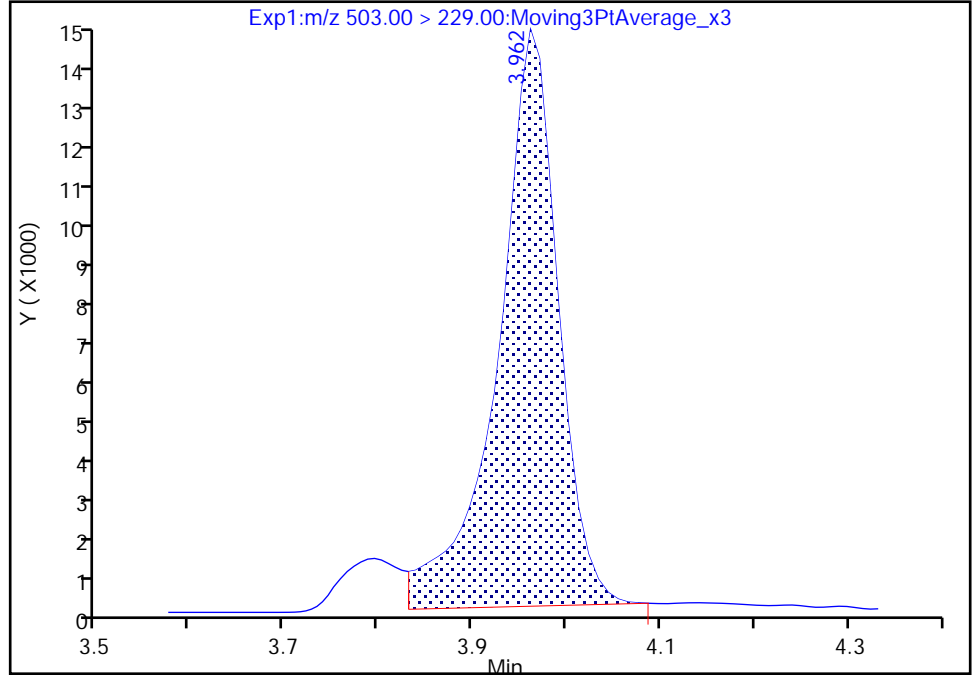
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Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

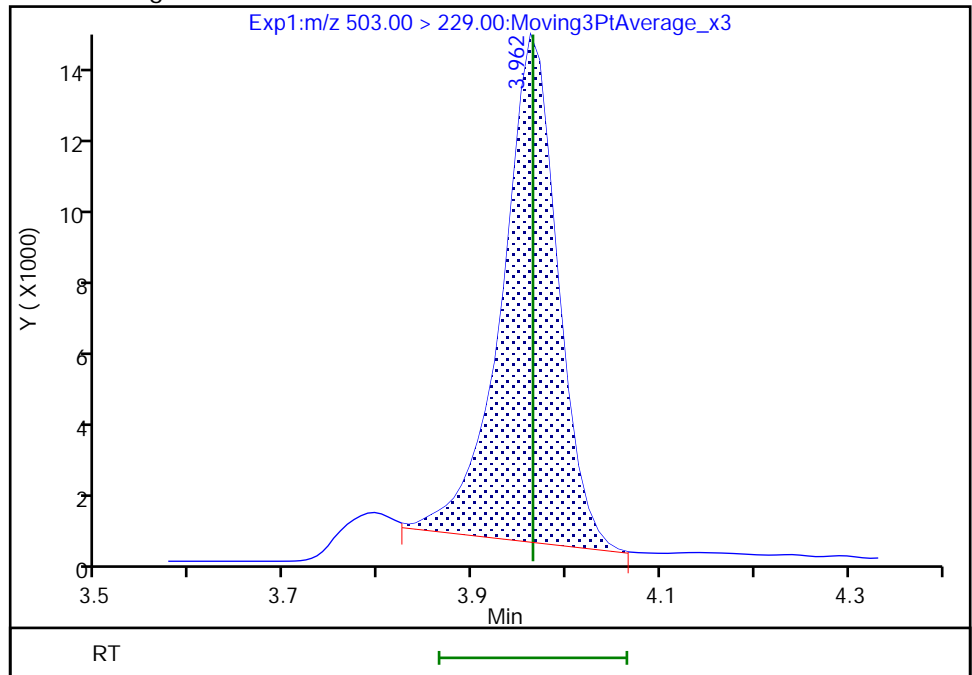
RT: 3.96
Area: 65228
Amount: 0.345869
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 59281
Amount: 0.331753
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

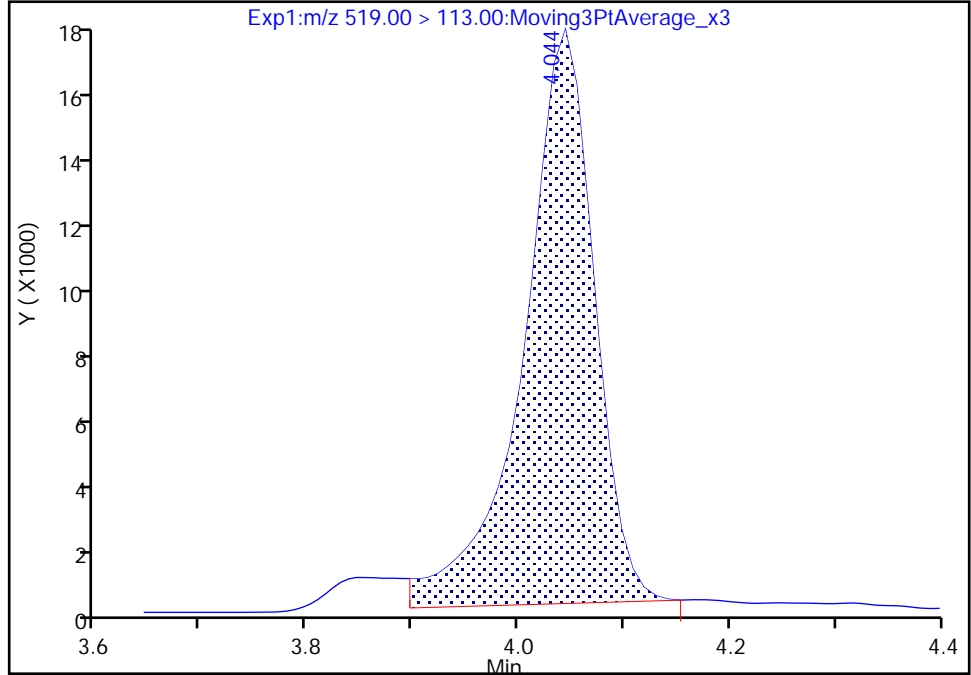
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

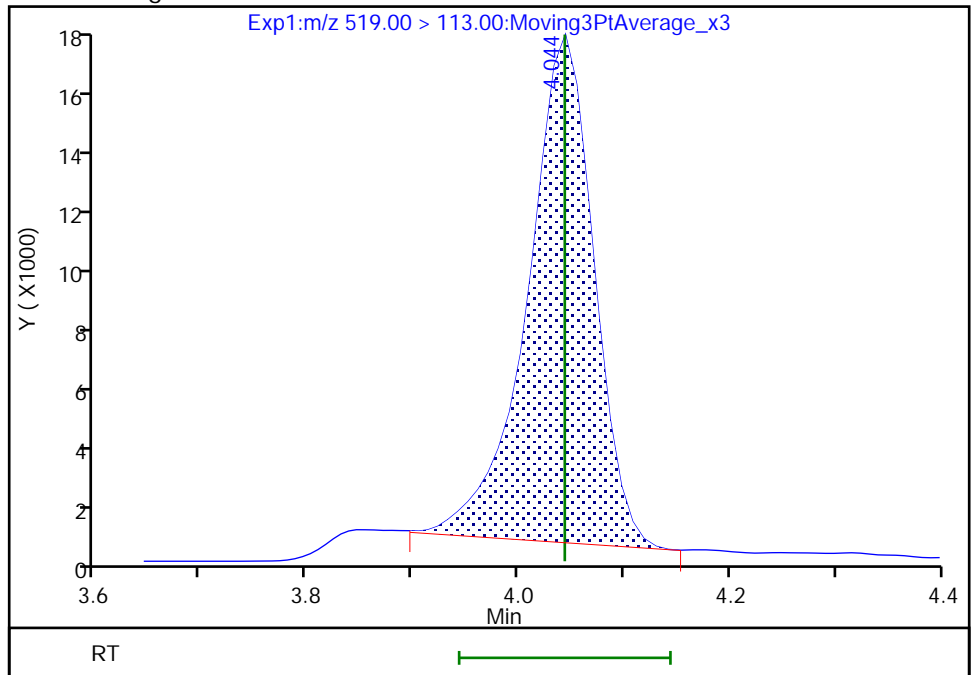
RT: 4.04
Area: 79421
Amount: 0.371267
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 73171
Amount: 0.364698
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:41:20
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

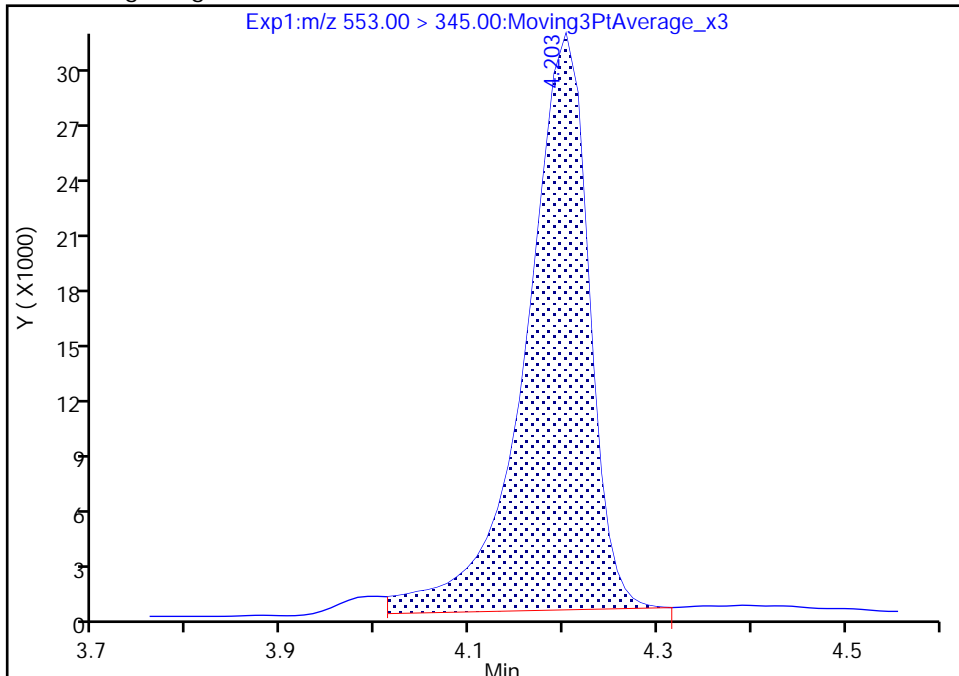
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

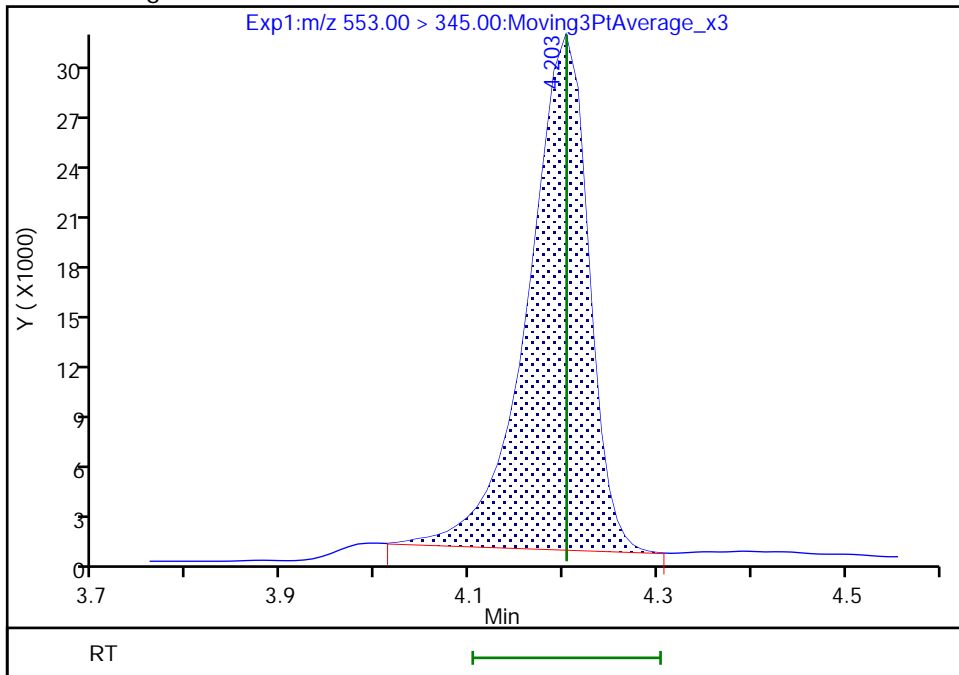
RT: 4.20
Area: 145264
Amount: 1.265293
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 137604
Amount: 1.221684
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:41:16
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

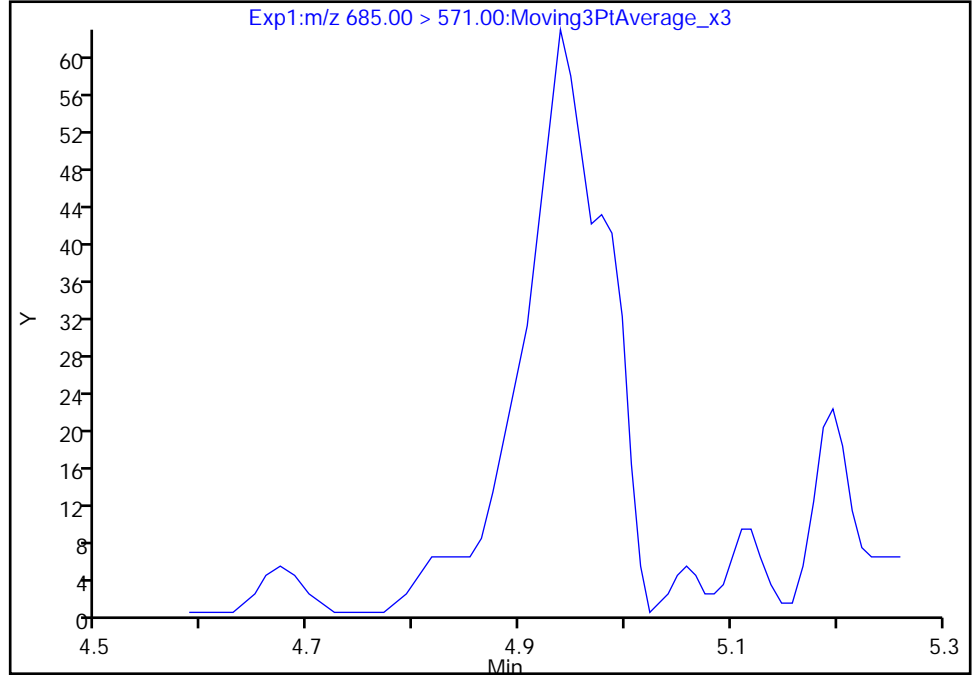
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

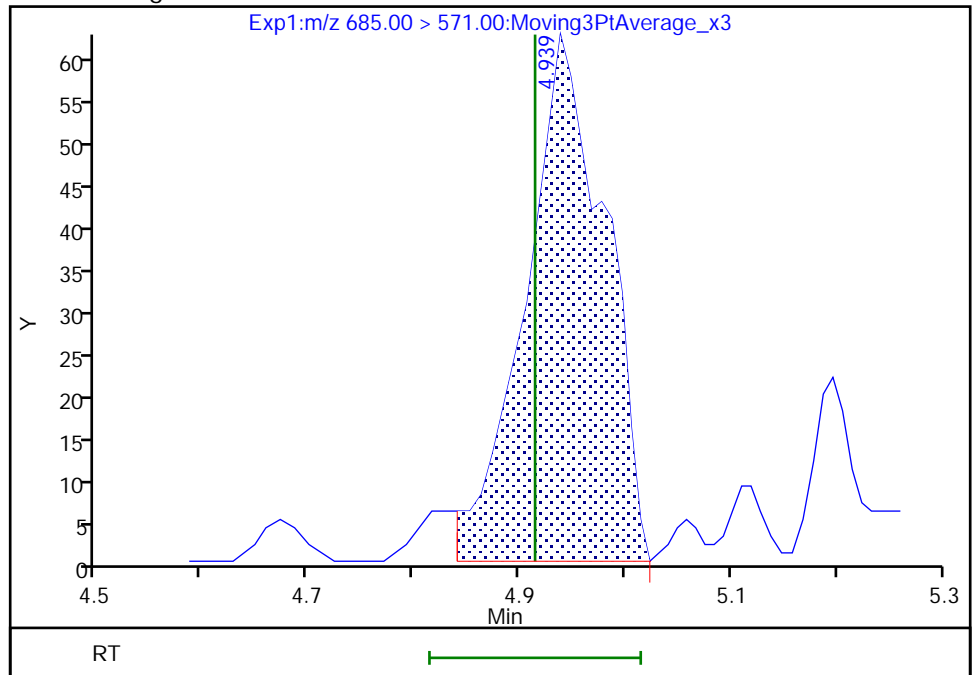
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.94
Area: 331
Amount: 0.049851
Amount Units: ng/ml



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Aug-2022 00:40:54 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.971	3.964	0.007	0.903	168892	0.9515	107	1545
2 BFS_A3B	519.00 > 113.00	4.054	4.044	0.010	0.922	206104	1.03	103	95.1
3 BFS_B3	553.00 > 345.00	4.215	4.203	0.012	0.958	359047	3.17	100	138
4 BFS_A2B2	569.00 > 229.00	4.315	4.306	0.009	0.981	561437	7.28	105	150
D 6 13C3 HFPO-DA	332.00 > 287.00	4.398	4.390	0.008	0.879	675382	4.93	98.5	304
5 BFS_A4B	585.00 > 113.00	4.398	4.395	0.003	1.000	139072	0.5333	97.0	163
7 BFS_AB3	619.00 > 229.00	4.577	4.569	0.008	1.041	764392	7.44	100	228
8 BFS_A3B2	635.00 > 113.00	4.673	4.671	0.002	1.063	251306	1.32	101	207
9 BFS_B4	669.00 > 461.00	4.817	4.807	0.010	1.095	110007	1.78	103	156
10 BFS_A2B3	685.00 > 571.00	4.918	4.915	0.003	1.118	931	0.1557	119	18.9 M
* 11 13C2 PFOA	415.00 > 370.00	5.006	4.998	0.008		3199293	5.00		368

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

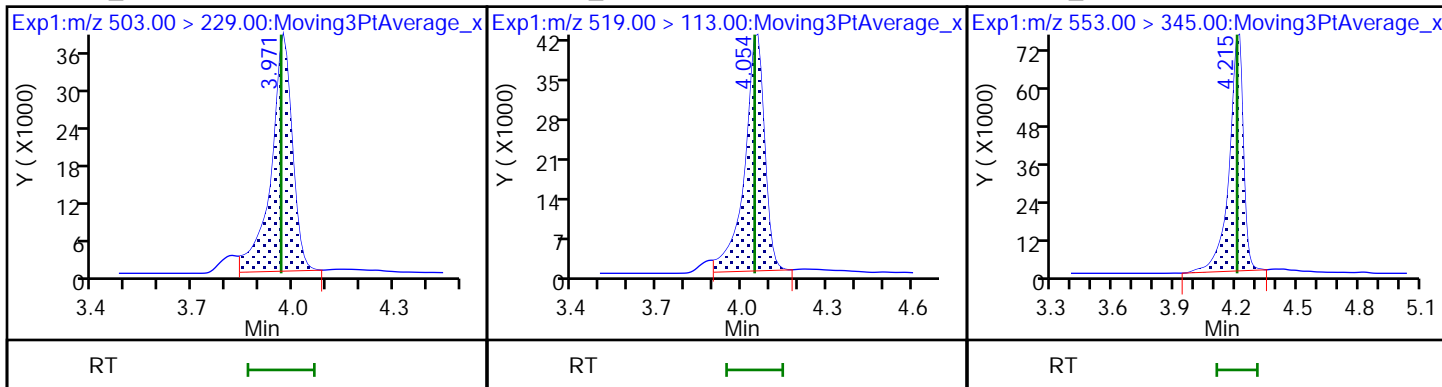
Amount Added: 200.00

Units: uL

1 BFS_AB2

2 BFS_A3B

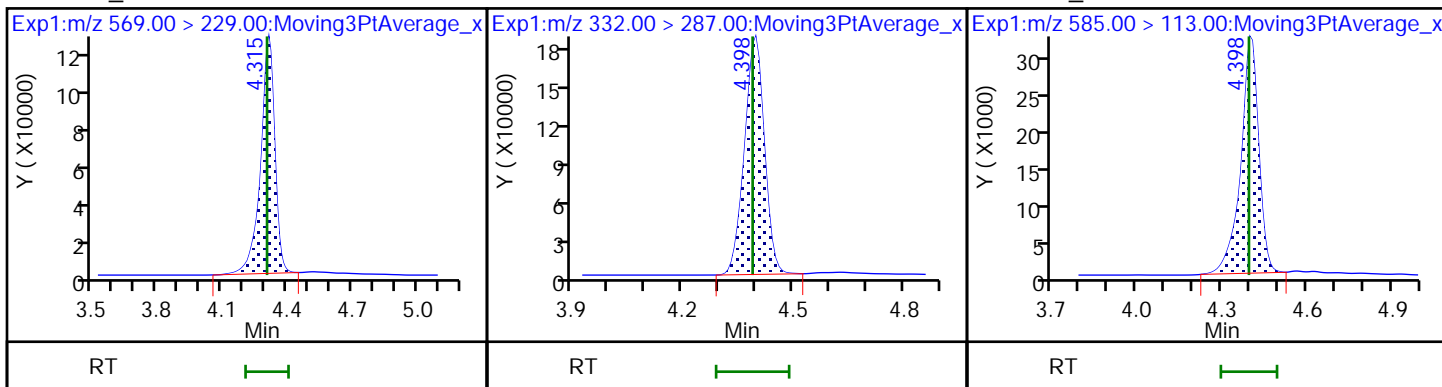
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

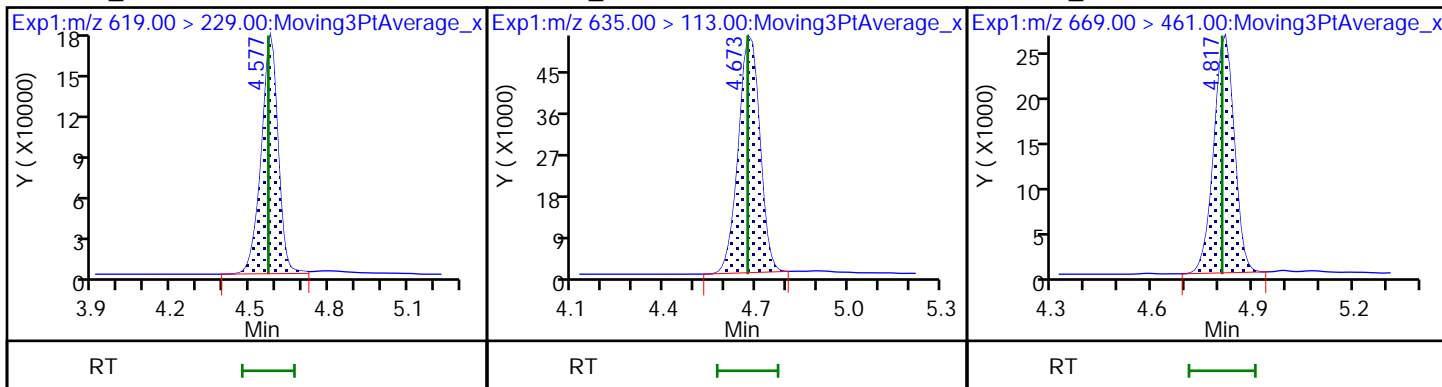
5 BFS_A4B



7 BFS_AB3

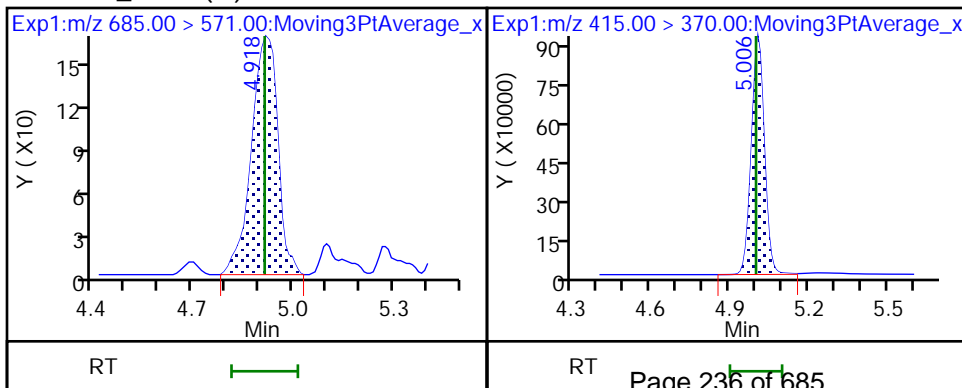
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

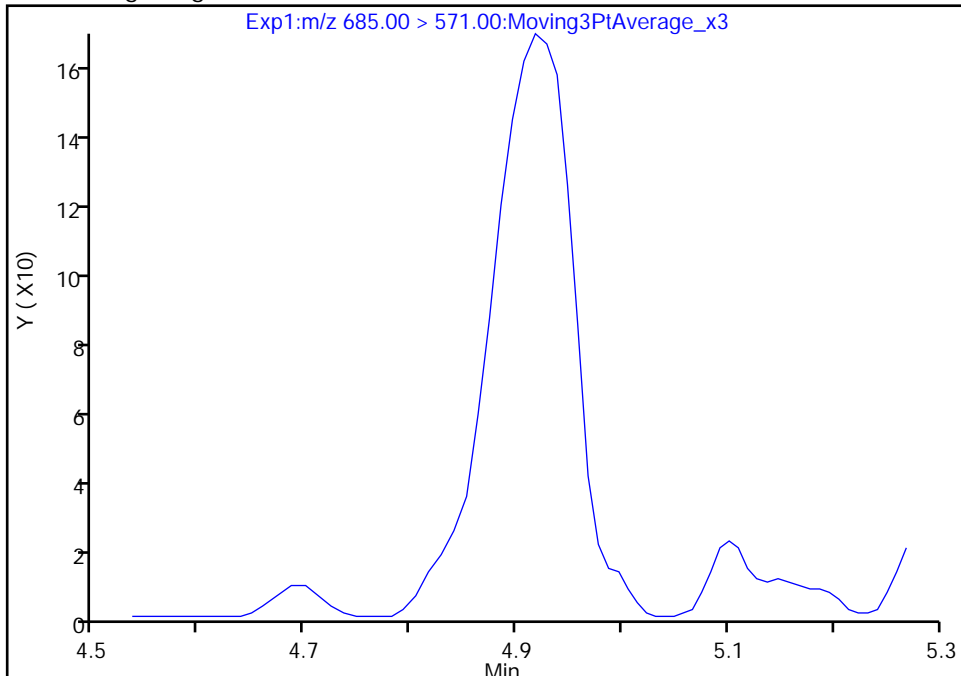
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d
Injection Date: 09-Aug-2022 00:40:54 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

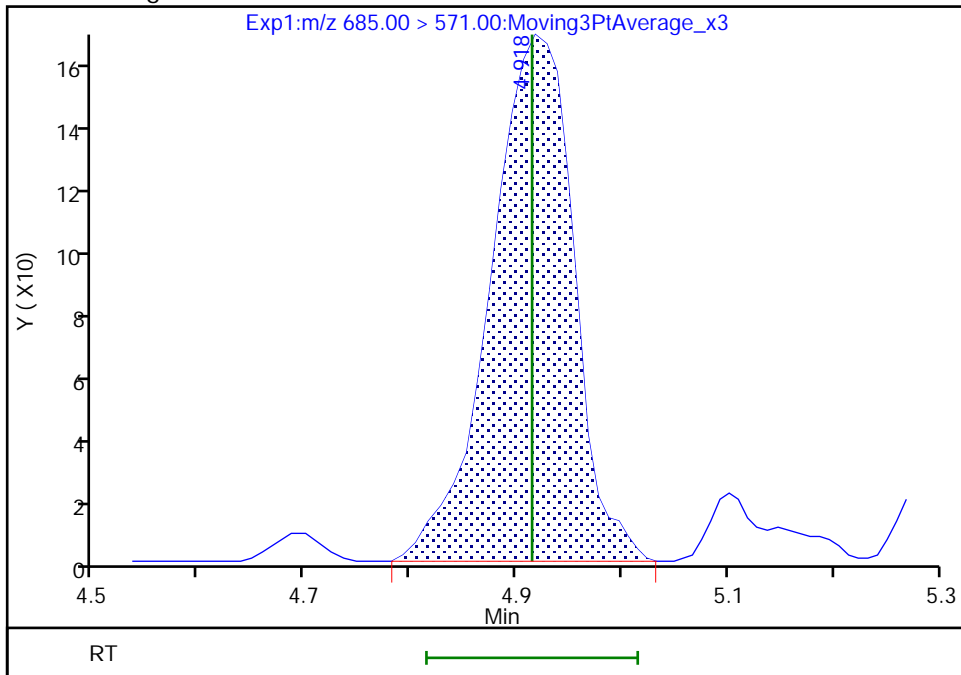
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.92
Area: 931
Amount: 0.155732
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 07:41:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 09-Aug-2022 00:53:32 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:47 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:38:06

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.970	3.964	0.006	0.903	326863	1.87	105	1519
2 BFS_A3B	519.00 > 113.00	4.053	4.044	0.009	0.922	420871	2.13	107	79.9
3 BFS_B3	553.00 > 345.00	4.213	4.203	0.010	0.958	744046	6.66	105	143 M
4 BFS_A2B2	569.00 > 229.00	4.313	4.306	0.007	0.981	1124117	14.9	107	138 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.396	4.390	0.006	0.878	663036	4.95	99.1	279
5 BFS_A4B	585.00 > 113.00	4.396	4.395	0.001	1.000	289554	1.13	102	207
7 BFS_AB3	619.00 > 229.00	4.575	4.569	0.006	1.041	1576044	15.6	105	209
8 BFS_A3B2	635.00 > 113.00	4.671	4.671	0.0	1.063	497178	2.66	101	208
9 BFS_B4	669.00 > 461.00	4.816	4.807	0.009	1.095	219296	3.62	105	190
10 BFS_A2B3	685.00 > 571.00	4.917	4.915	0.002	1.119	1335	0.2309	88.1	25.7 Ma M
* 11 13C2 PFOA	415.00 > 370.00	5.005	4.998	0.007		3124126	5.00		345

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d

Injection Date: 09-Aug-2022 00:53:32

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

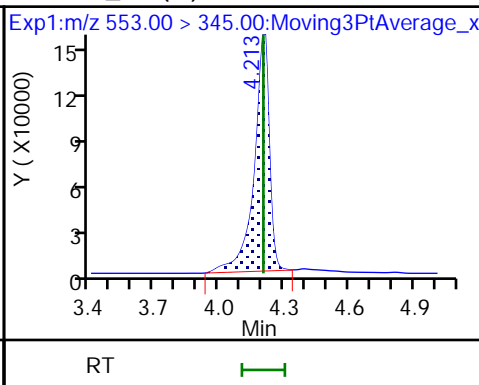
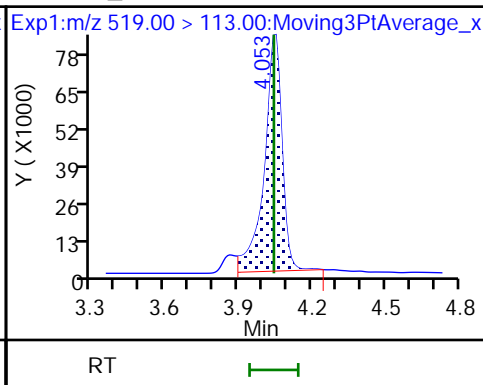
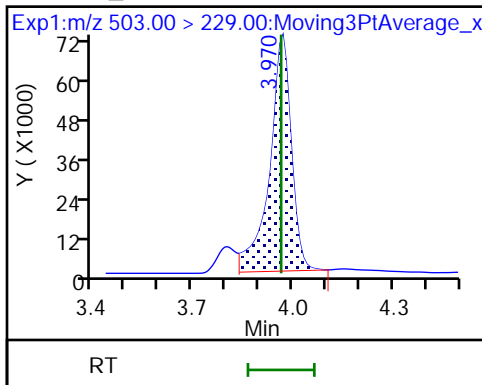
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

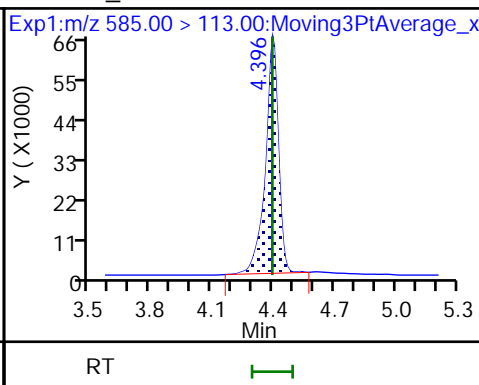
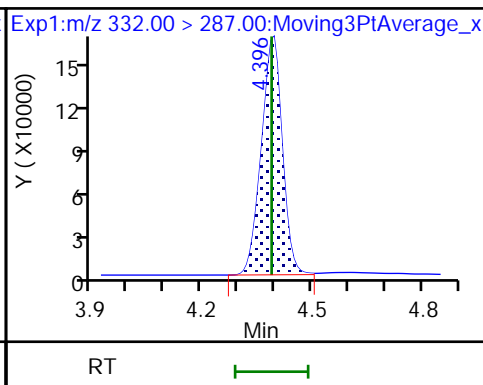
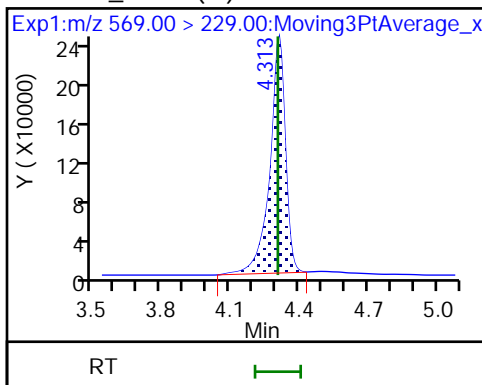
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

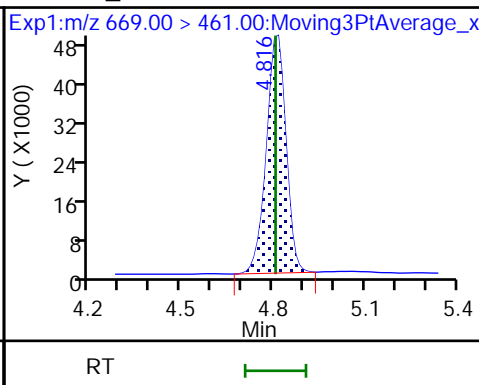
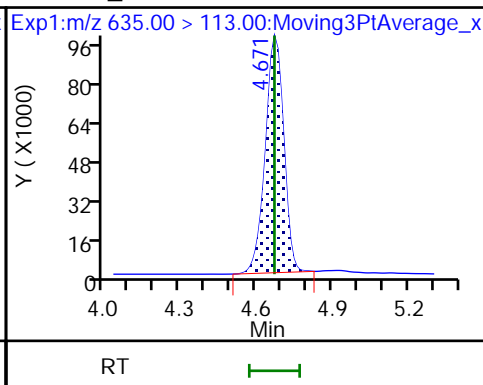
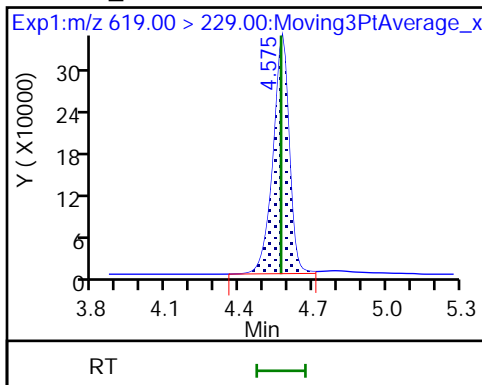
5 BFS_A4B



7 BFS_AB3

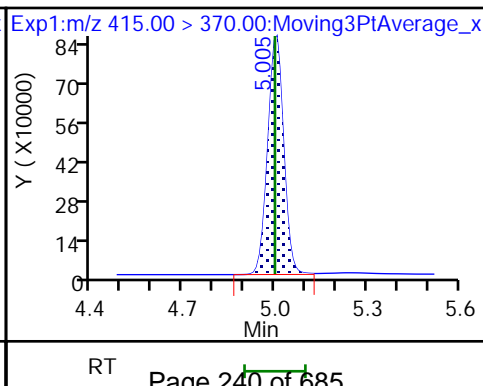
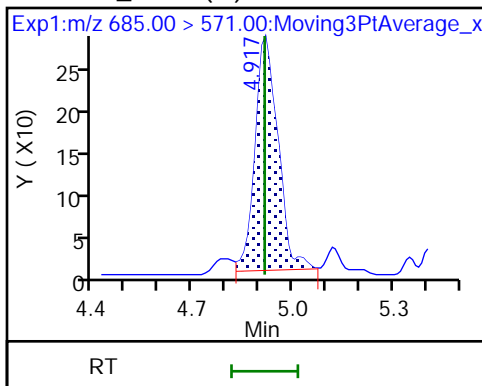
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

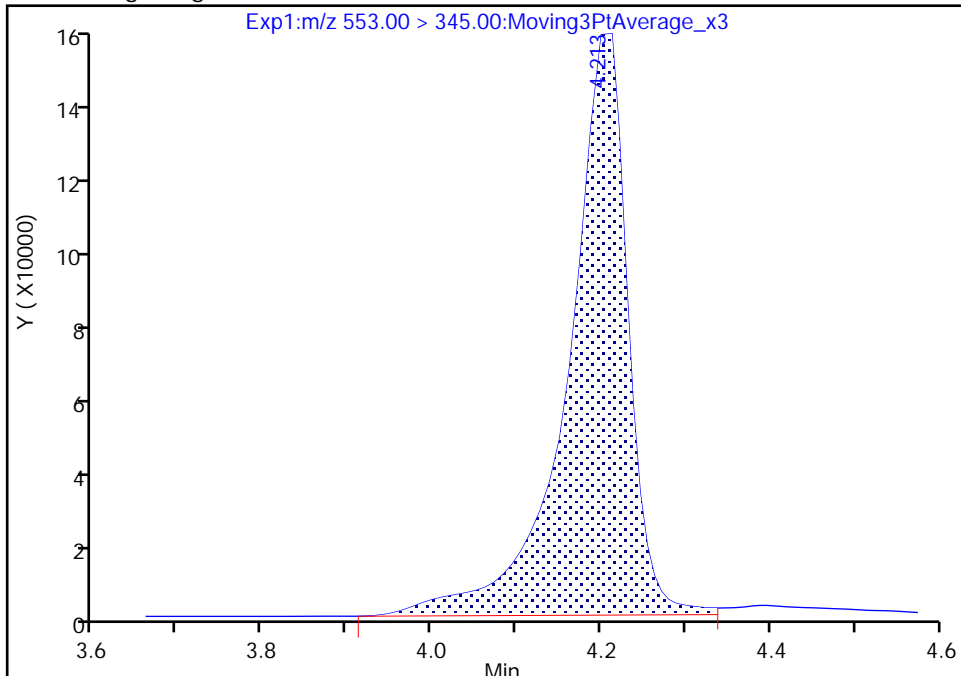
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

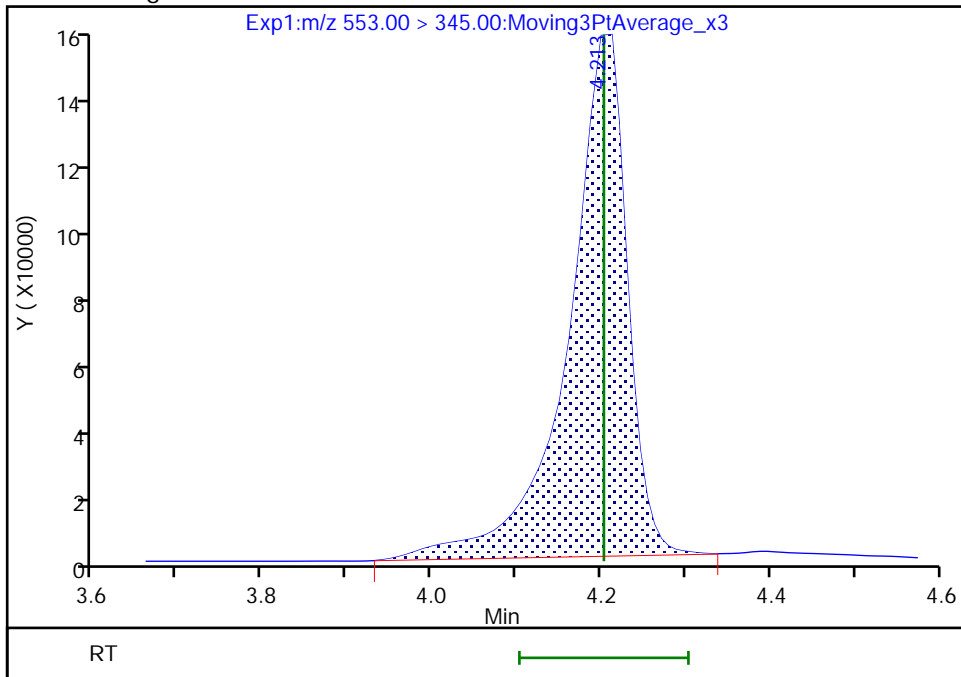
RT: 4.21
Area: 765231
Amount: 6.676323
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 744046
Amount: 6.656727
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:37:08
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

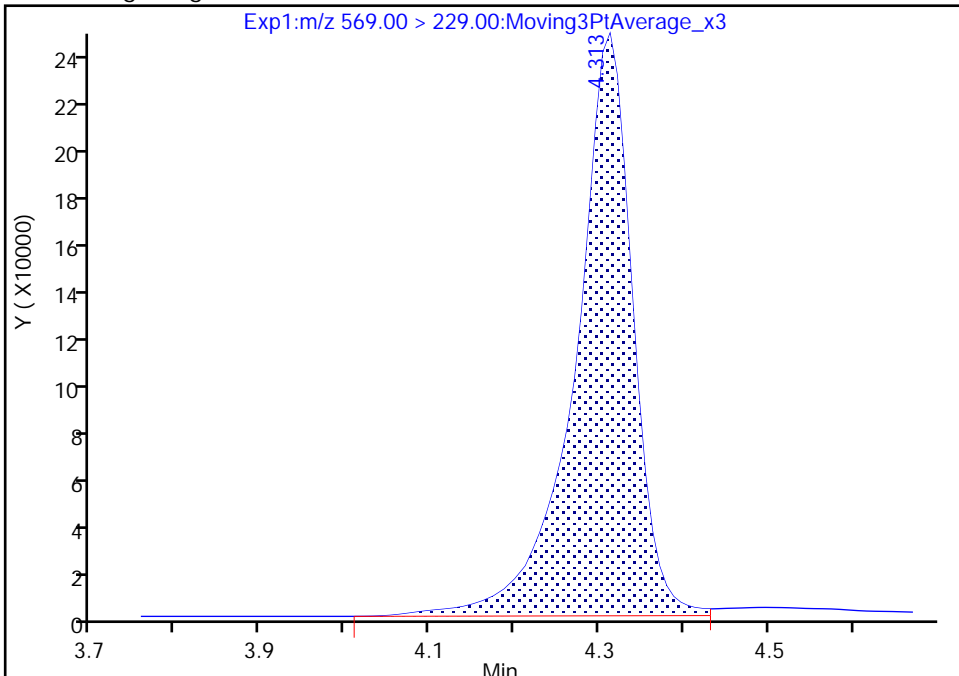
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d		
Injection Date:	09-Aug-2022 00:53:32	Instrument ID:	30733
Lims ID:	ICISAV CAL 5		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	6
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	5

4 BFS_A2B2, CAS: STL02882

Signal: 1

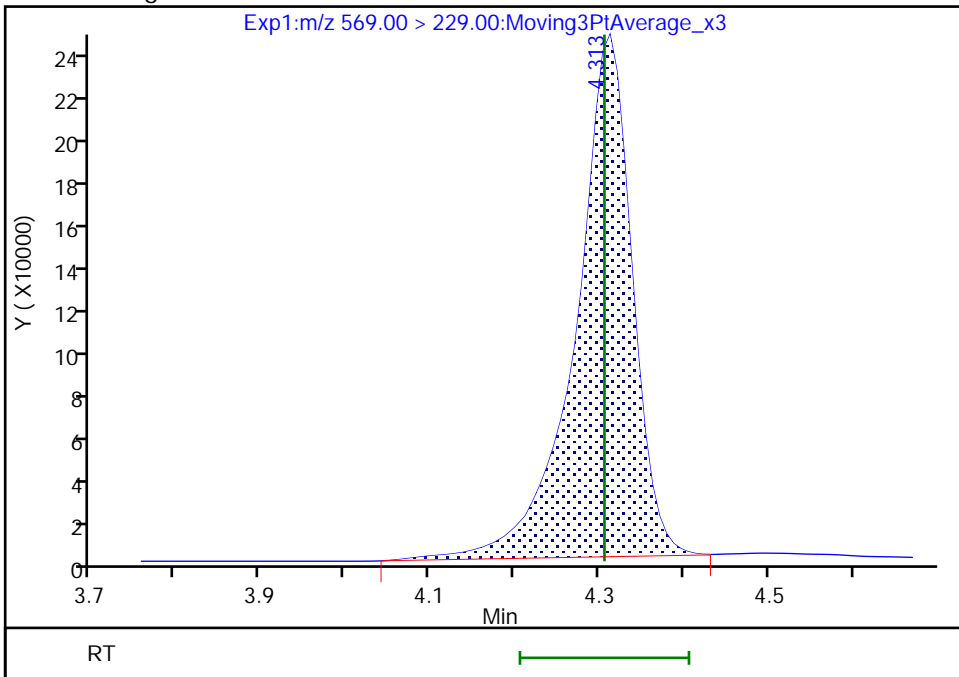
RT: 4.31
 Area: 1156864
 Amount: 14.946355
 Amount Units: ng/ml

Processing Integration Results



RT: 4.31
 Area: 1124117
 Amount: 14.909431
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:37:02
 Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

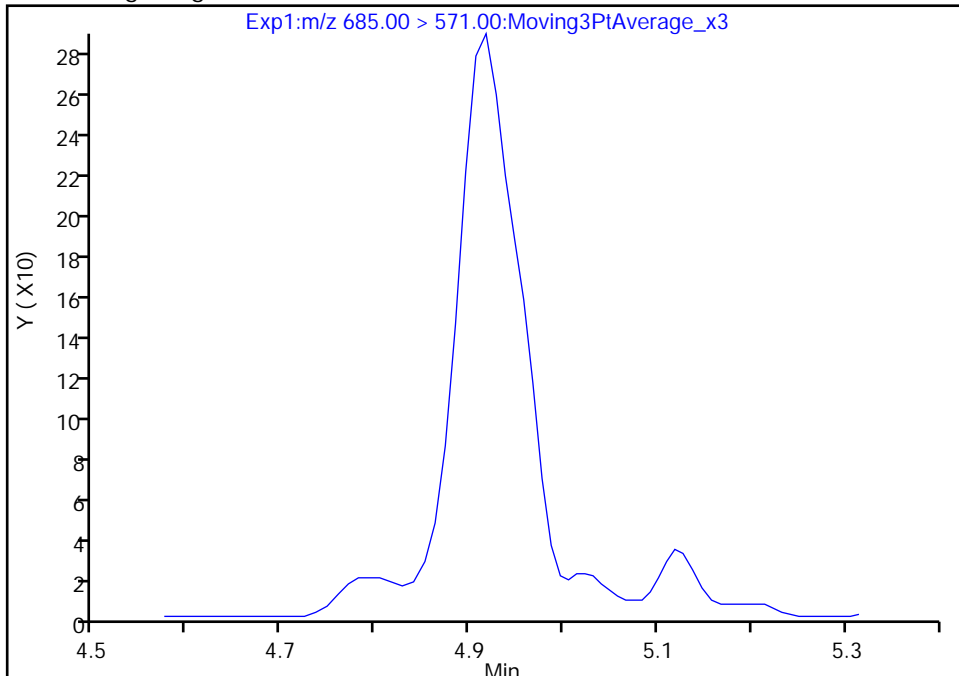
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

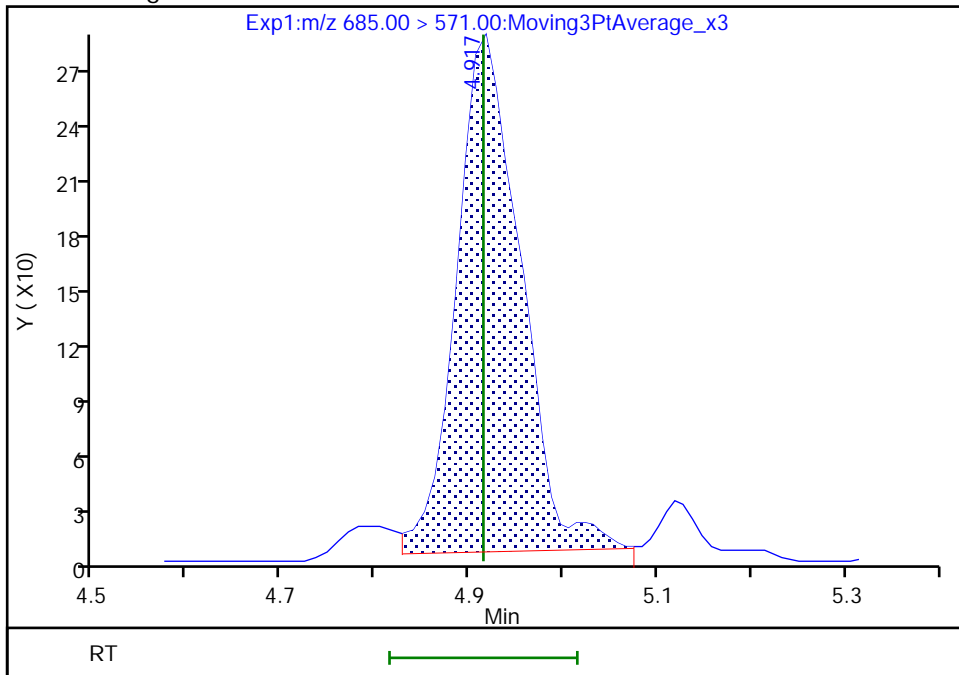
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.92
Area: 1335
Amount: 0.230887
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 07:36:51
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Aug-2022 01:06:05 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:48 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:42:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.970	3.964	0.006	0.905	783975	4.65	104	2363
2 BFS_A3B	519.00 > 113.00	4.042	4.044	-0.002	0.921	999379	5.24	105	89.5
3 BFS_B3	553.00 > 345.00	4.200	4.203	-0.003	0.957	1707610	15.9	100	142 M
4 BFS_A2B2	569.00 > 229.00	4.304	4.306	-0.002	0.981	2714045	37.5	108	143
5 BFS_A4B	585.00 > 113.00	4.396	4.395	0.001	1.002	676057	2.73	99.3	191
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.390	-0.002	0.878	637015	4.79	95.8	278
7 BFS_AB3	619.00 > 229.00	4.564	4.569	-0.005	1.040	3689715	38.3	103	231
8 BFS_A3B2	635.00 > 113.00	4.671	4.671	0.0	1.065	1217047	6.77	103	203
9 BFS_B4	669.00 > 461.00	4.805	4.807	-0.002	1.095	509550	8.76	101	230
10 BFS_A2B3	685.00 > 571.00	4.908	4.915	-0.007	1.118	3417	0.6265	95.7	56.9
* 11 13C2 PFOA	415.00 > 370.00	4.998	4.998	0.0		3102433	5.00		343

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d

Injection Date: 09-Aug-2022 01:06:05

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

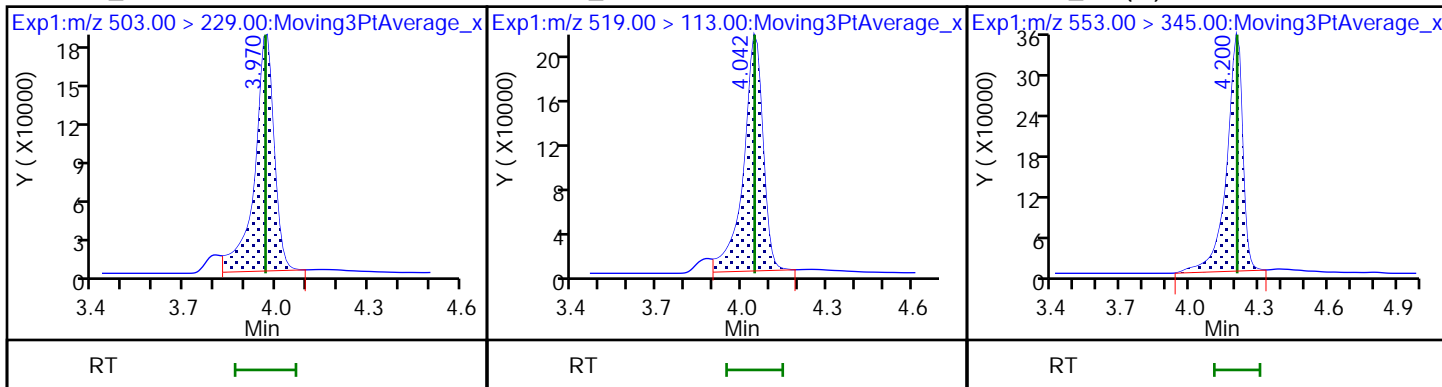
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

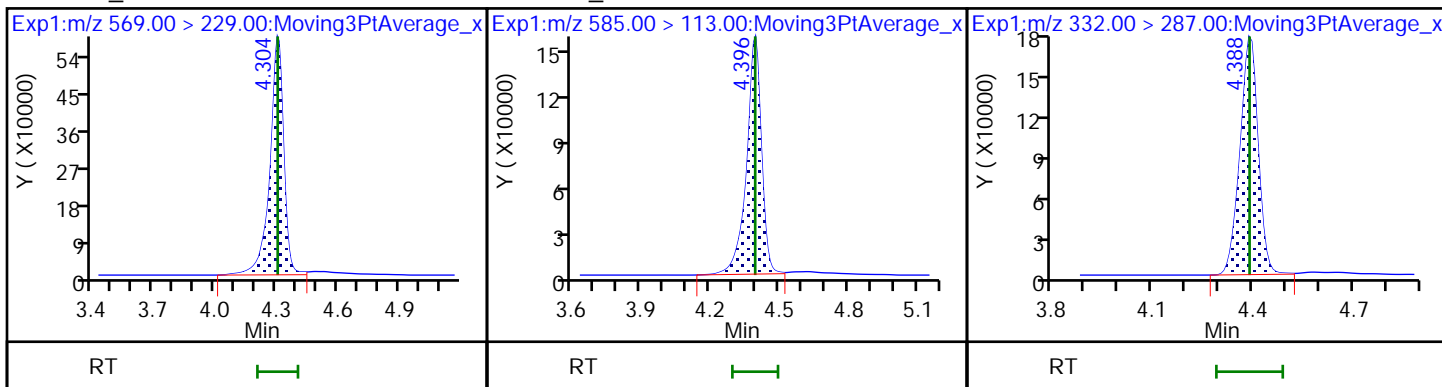
3 BFS_B3 (M)



4 BFS_A2B2

5 BFS_A4B

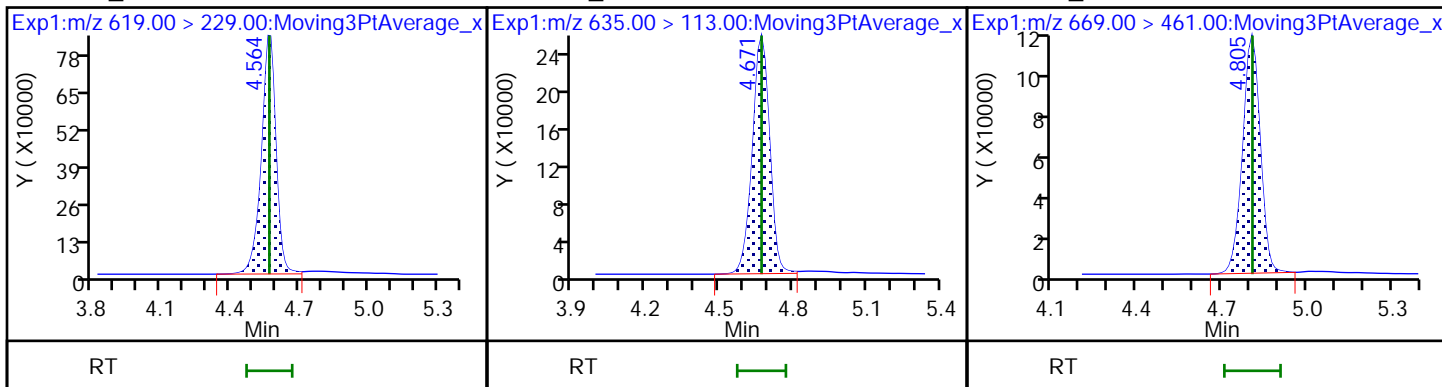
D 6 13C3 HFPO-DA



7 BFS_AB3

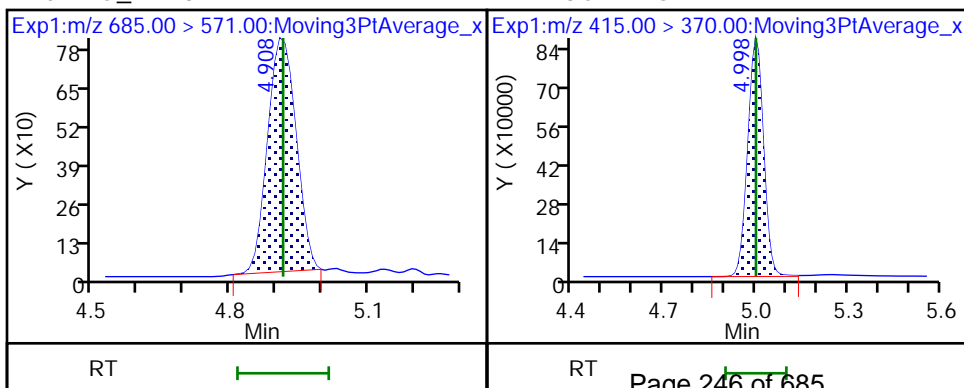
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

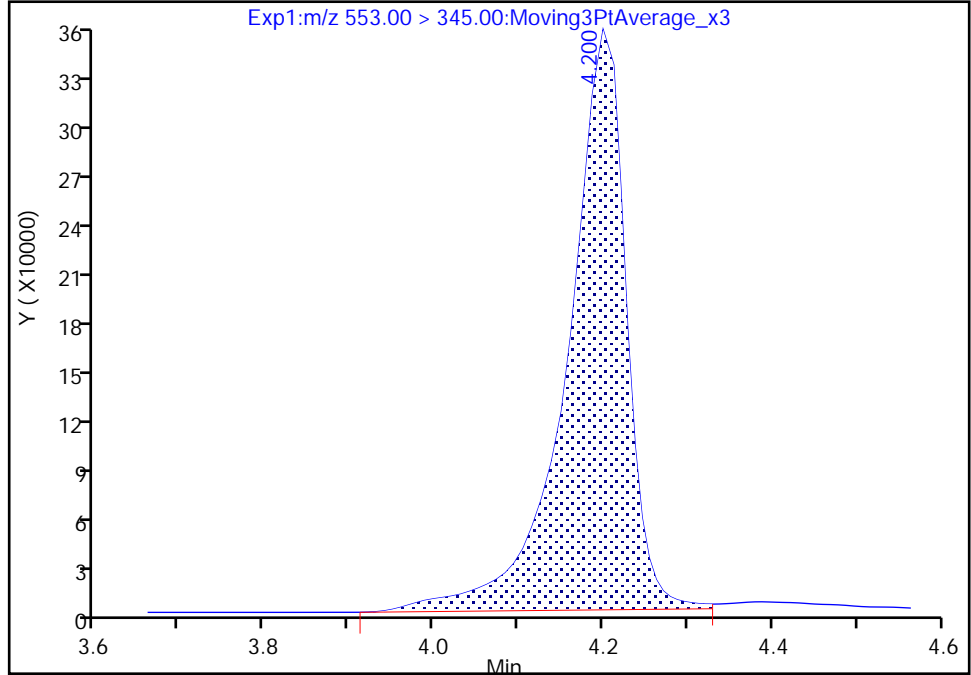
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d
Injection Date: 09-Aug-2022 01:06:05 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

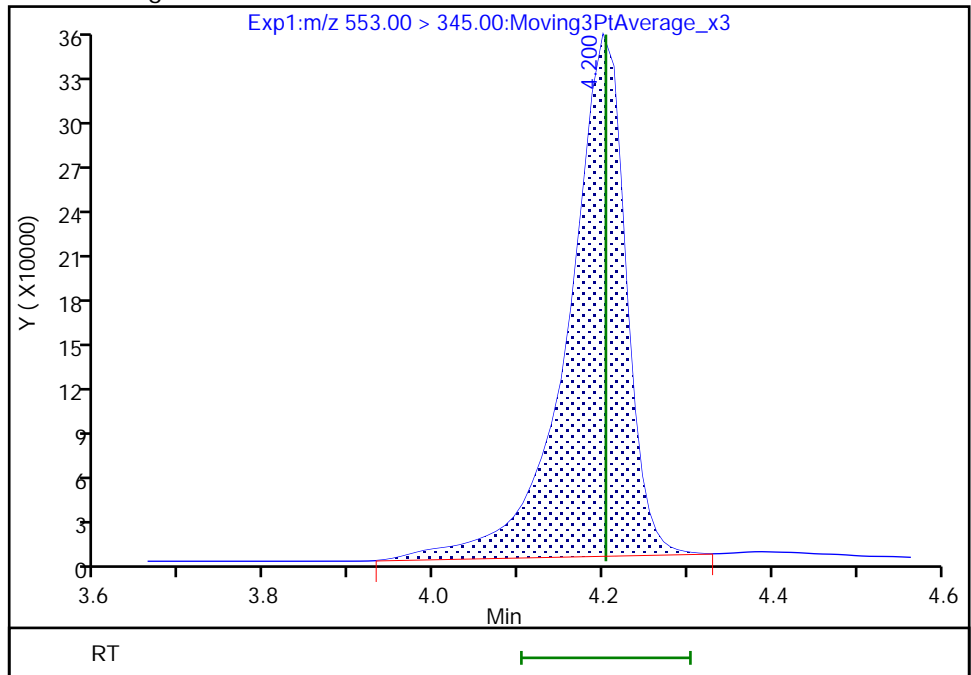
RT: 4.20
Area: 1739777
Amount: 15.750004
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 1707610
Amount: 15.856829
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:08
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Aug-2022 01:18:39 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:49 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:42:51

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.953	3.964	-0.011	0.902	1538103	8.80	98.8	1782	M
2 BFS_A3B									M
519.00 > 113.00	4.034	4.044	-0.010	0.921	1965503	9.90	99.5	65.2	M
3 BFS_B3									M
553.00 > 345.00	4.191	4.203	-0.012	0.956	3421113	30.8	97.1	100	M
4 BFS_A2B2									M
569.00 > 229.00	4.299	4.306	-0.007	0.981	5309692	71.3	103	167	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.383	4.390	-0.007	0.878	656951	5.13	103	280	
5 BFS_A4B									
585.00 > 113.00	4.383	4.395	-0.012	1.000	1379451	5.40	98.2	208	
7 BFS_AB3									
619.00 > 229.00	4.557	4.569	-0.012	1.040	7092409	71.9	96.6	171	
8 BFS_A3B2									
635.00 > 113.00	4.664	4.671	-0.007	1.064	2287806	12.4	94.4	185	
9 BFS_B4									
669.00 > 461.00	4.797	4.807	-0.010	1.094	1110166	18.5	107	261	
10 BFS_A2B3									M
685.00 > 571.00	4.911	4.915	-0.004	1.121	7278	1.30	99.1	121	M
* 11 13C2 PFOA									
415.00 > 370.00	4.990	4.998	-0.008		2990757	5.00		321	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d

Injection Date: 09-Aug-2022 01:18:39

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

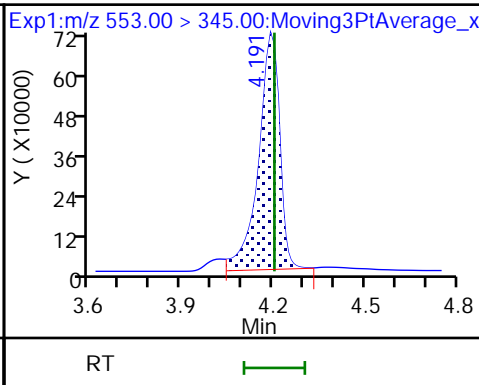
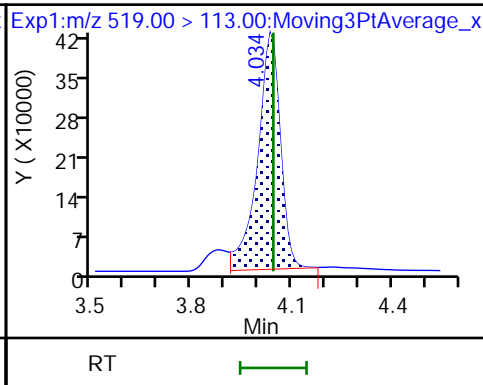
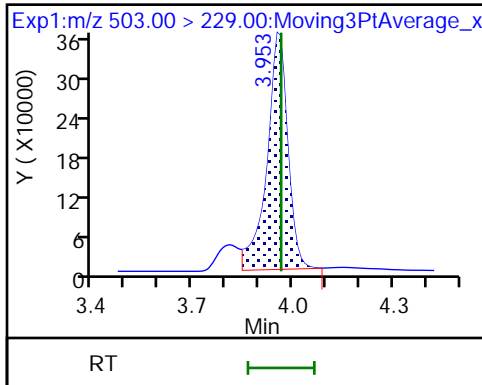
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

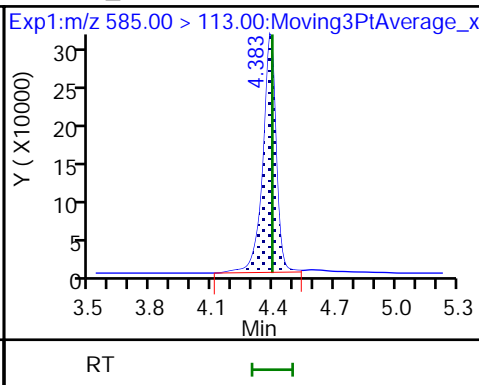
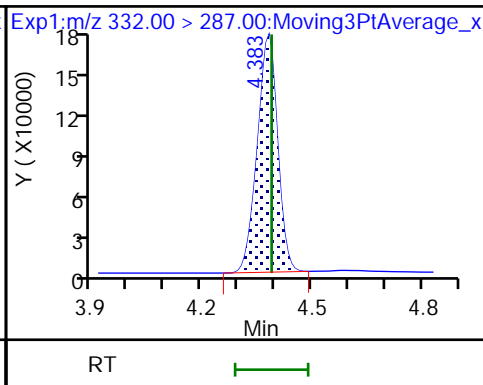
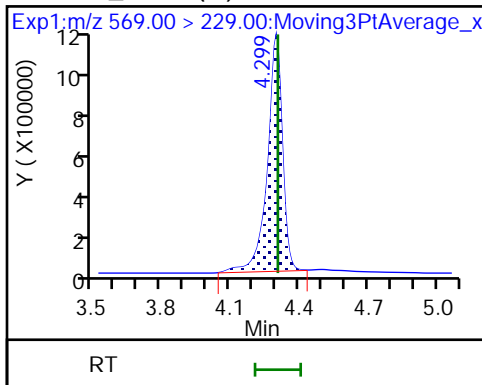
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

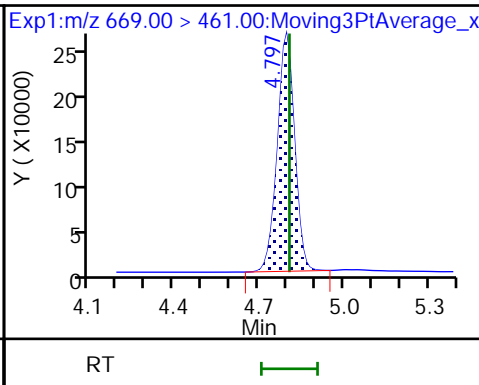
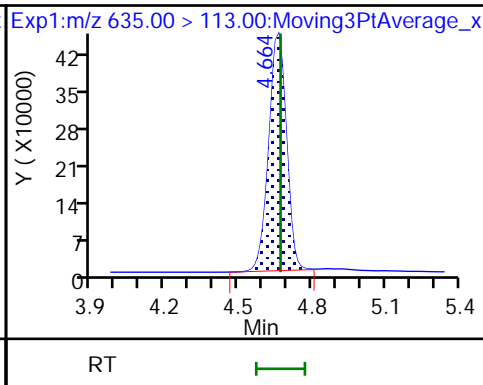
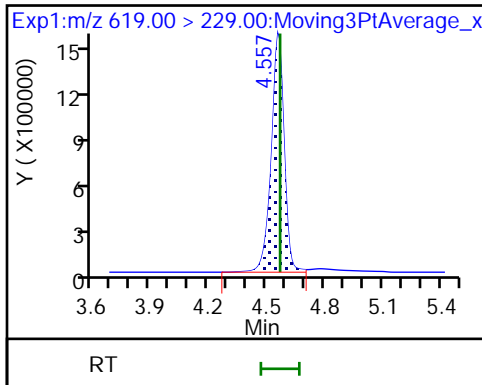
5 BFS_A4B



7 BFS_AB3

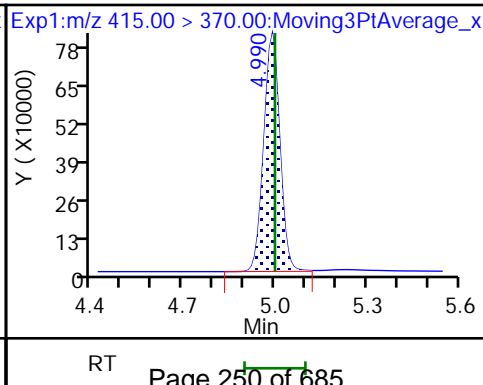
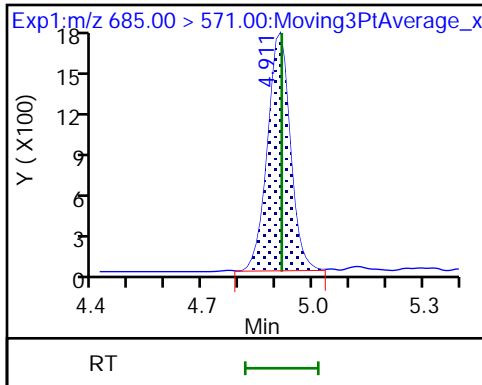
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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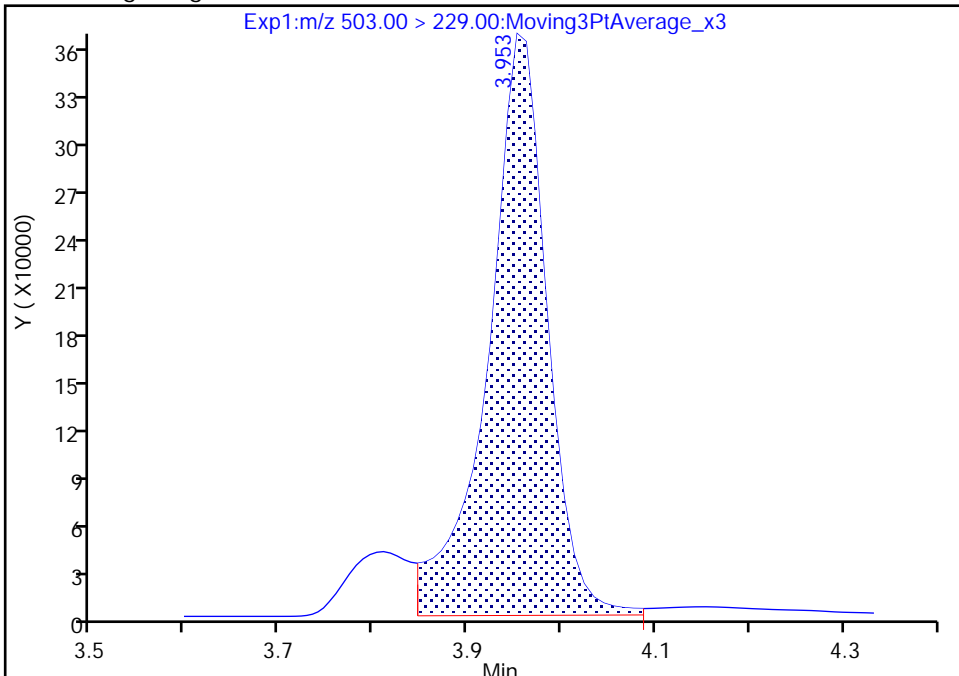
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

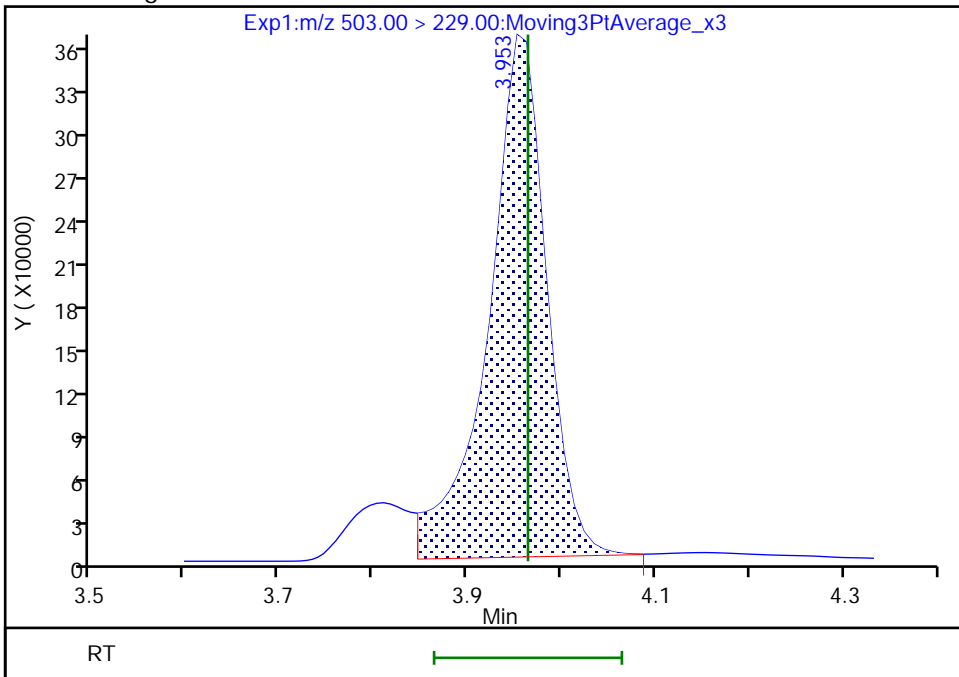
RT: 3.95
Area: 1572829
Amount: 8.190441
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 1538103
Amount: 8.798755
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:27
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

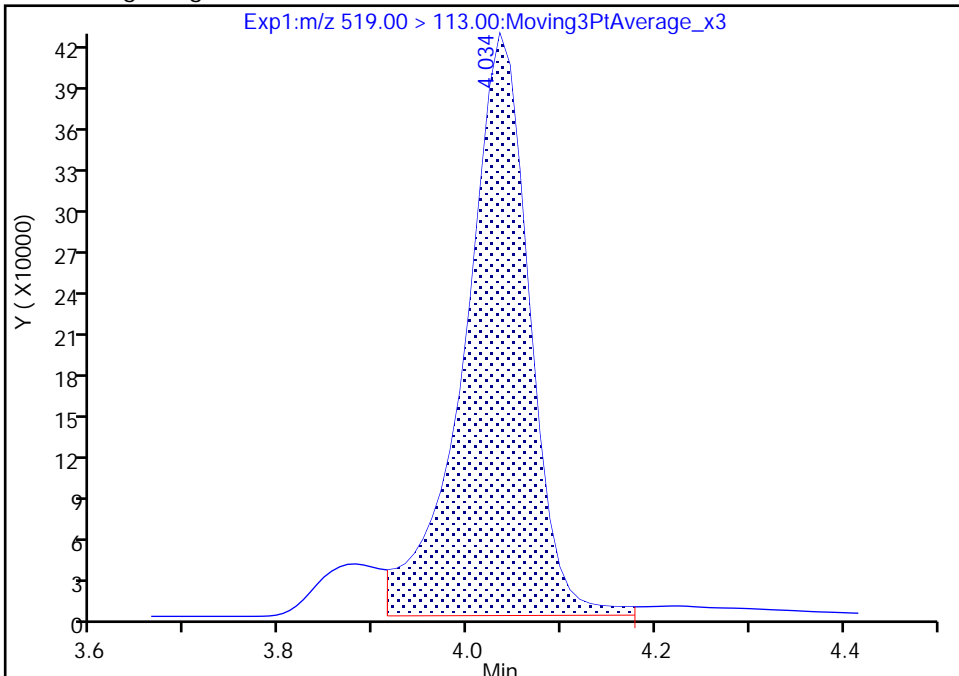
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d		
Injection Date:	09-Aug-2022 01:18:39	Instrument ID:	30733
Lims ID:	IC CAL 7		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	8
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	7

2 BFS_A3B, CAS: STL02880

Signal: 1

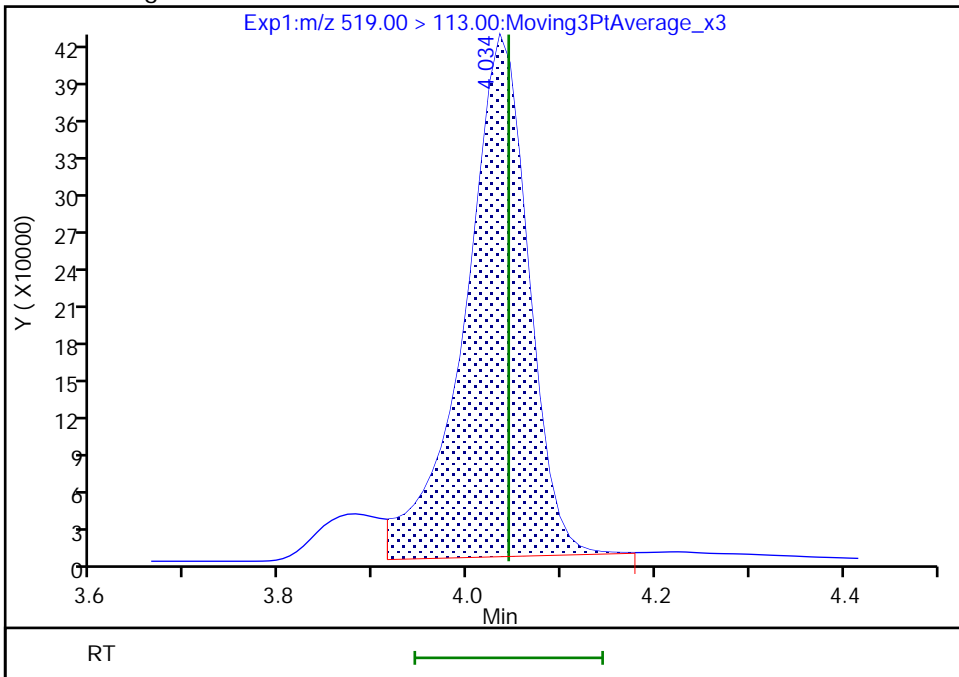
RT: 4.03
 Area: 2016614
 Amount: 10.037480
 Amount Units: ng/ml

Processing Integration Results



RT: 4.03
 Area: 1965503
 Amount: 9.904746
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:31
 Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

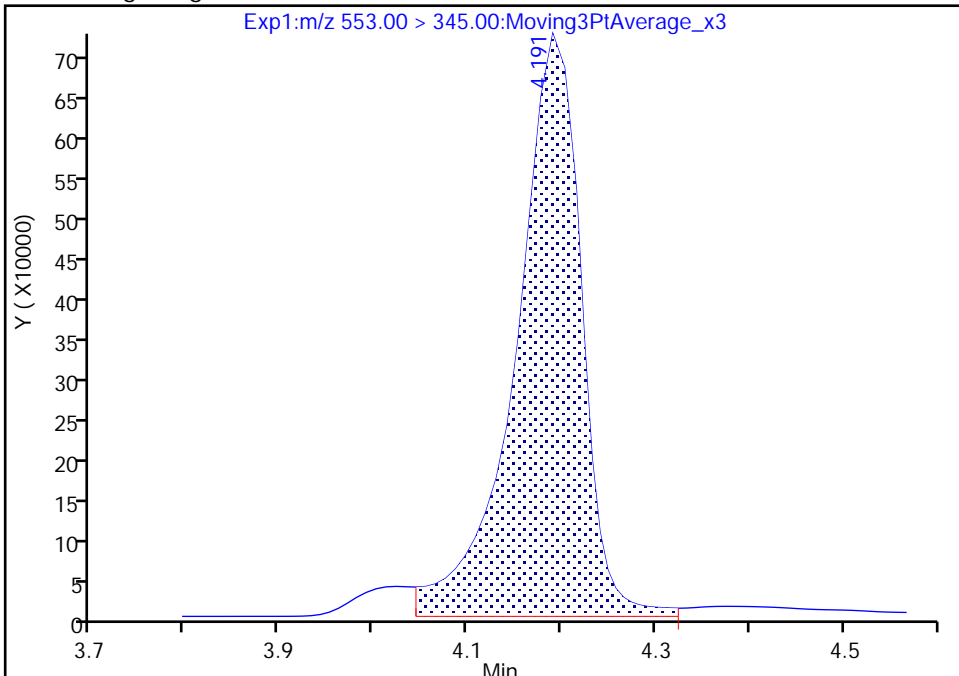
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

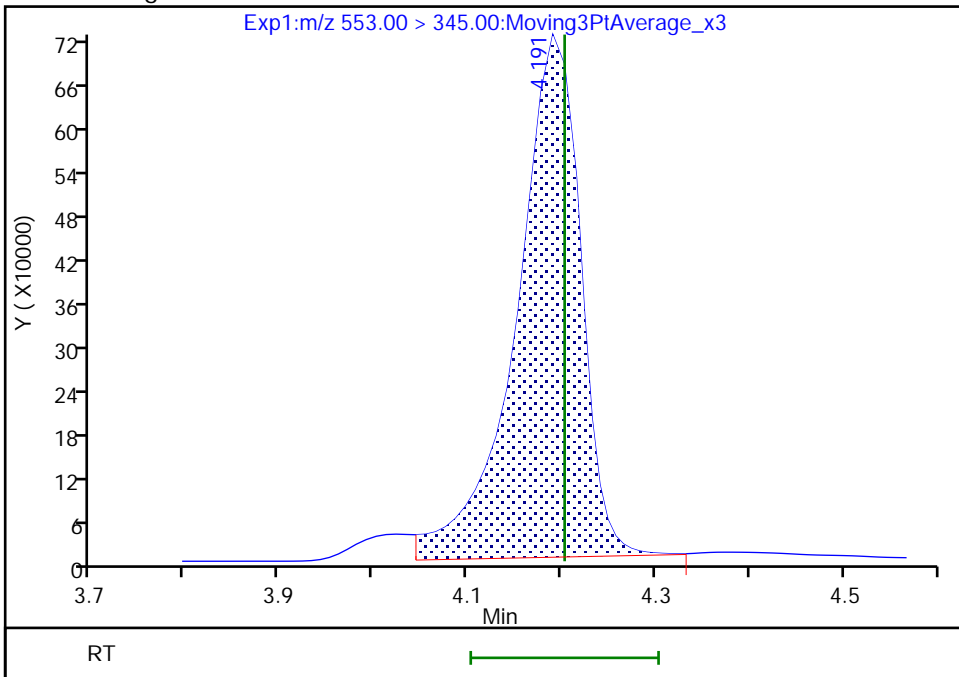
RT: 4.19
Area: 3509754
Amount: 30.780236
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 3421113
Amount: 30.774032
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:35
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

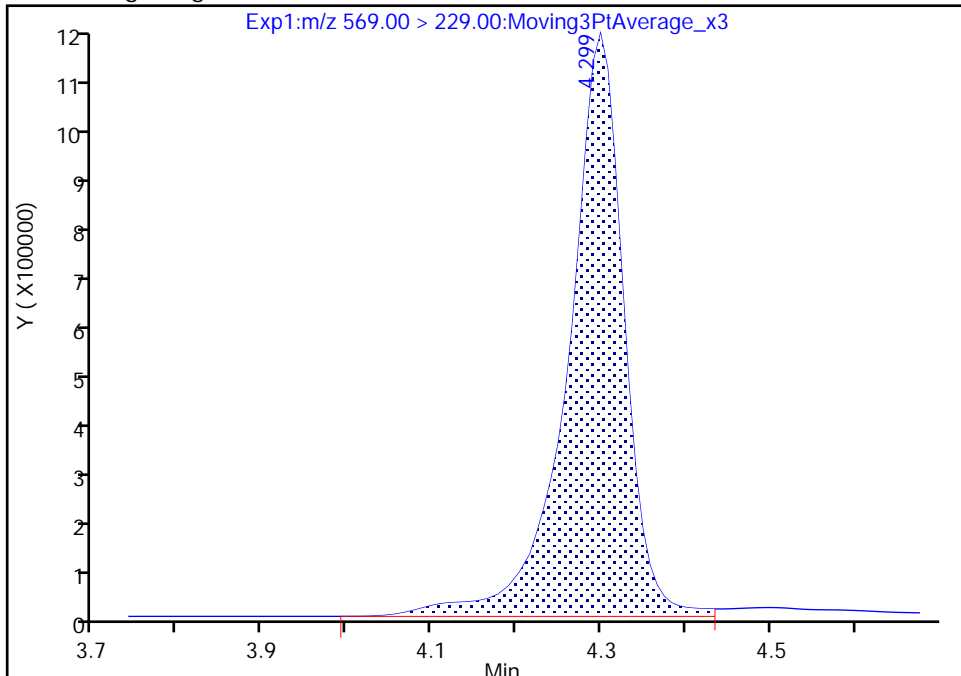
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

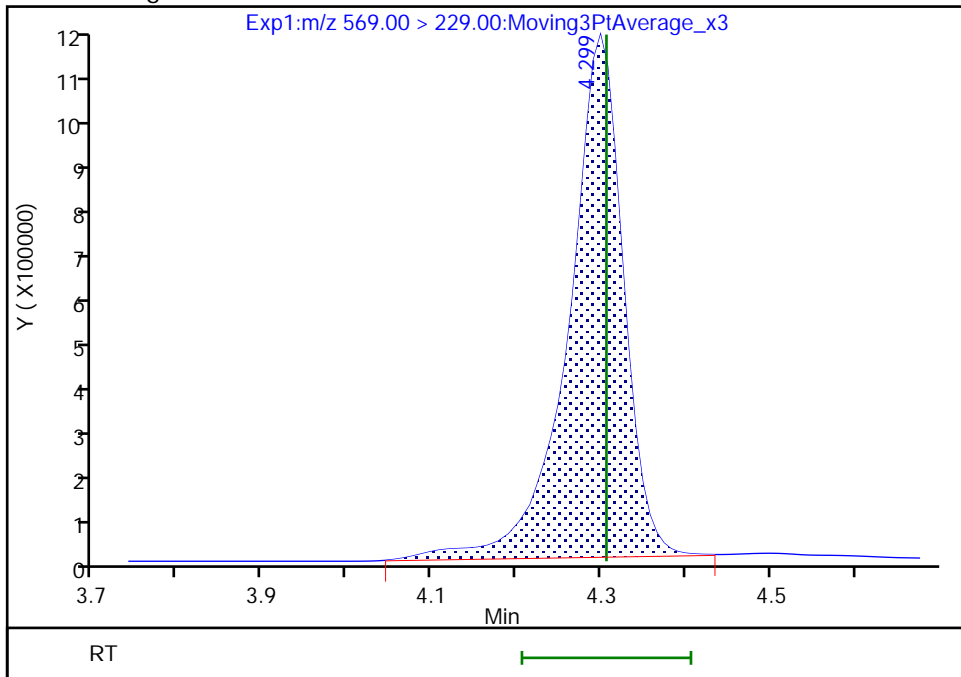
RT: 4.30
Area: 5475756
Amount: 71.450209
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 5309692
Amount: 71.280718
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:41
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

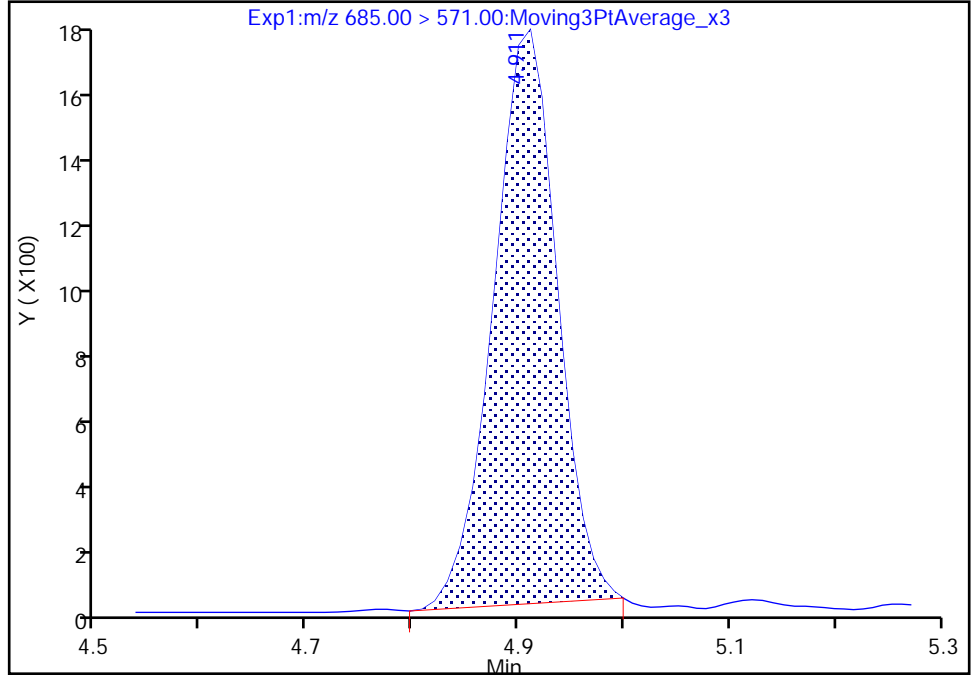
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

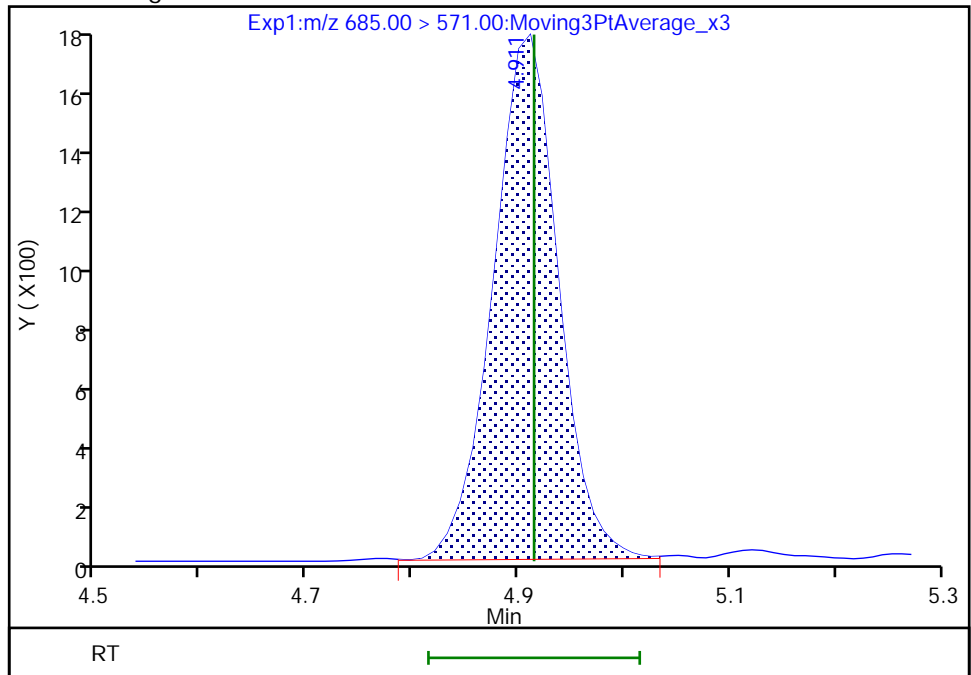
RT: 4.91
Area: 7038
Amount: 1.218941
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 7278
Amount: 1.297526
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 09-Aug-2022 01:31:14 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:50 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:43:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.964	-0.003	0.904	3198611	18.6	104	2144	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.923	4085759	20.8	104	76.3	M
3 BFS_B3									
553.00 > 345.00	4.202	4.203	-0.001	0.959	7003349	64.8	102	134	
4 BFS_A2B2									
569.00 > 229.00	4.298	4.306	-0.008	0.981	10710611	148.0	107	150	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.381	4.390	-0.009	0.877	638673	5.06	101	289	
5 BFS_A4B									
585.00 > 113.00	4.390	4.395	-0.005	1.002	2740234	11.0	100	184	
7 BFS_AB3									
619.00 > 229.00	4.566	4.569	-0.003	1.042	13833158	146.7	98.6	190	
8 BFS_A3B2									
635.00 > 113.00	4.659	4.671	-0.012	1.063	4923751	27.5	105	202	
9 BFS_B4									
669.00 > 461.00	4.804	4.807	-0.003	1.097	2066265	35.5	103	239	
10 BFS_A2B3									
685.00 > 571.00	4.907	4.915	-0.008	1.120	14370	2.63	100	127	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.001		2945364	5.00		325	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS8_00004

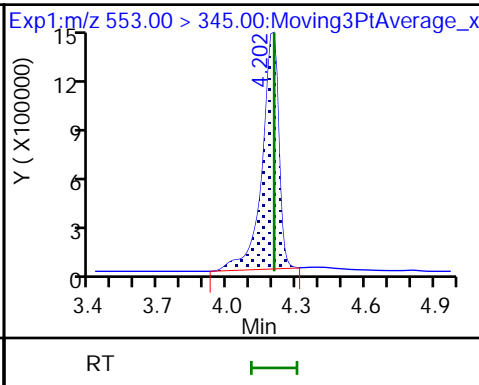
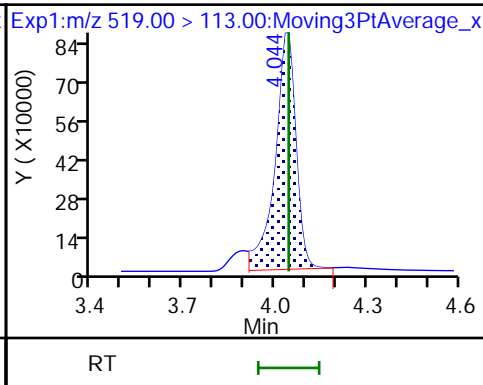
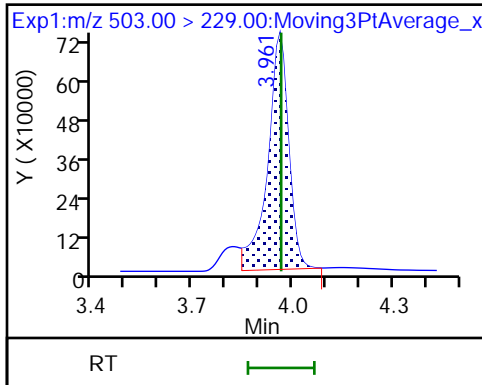
Amount Added: 200.00

Units: uL

1 BFS_AB2 (M)

2 BFS_A3B (M)

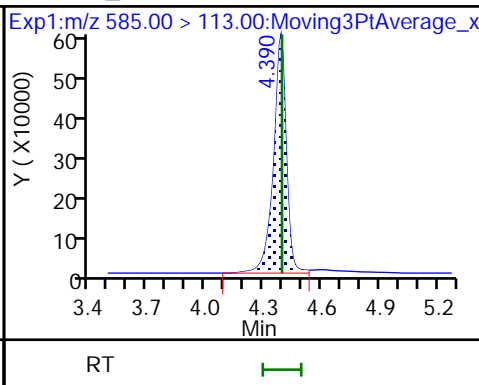
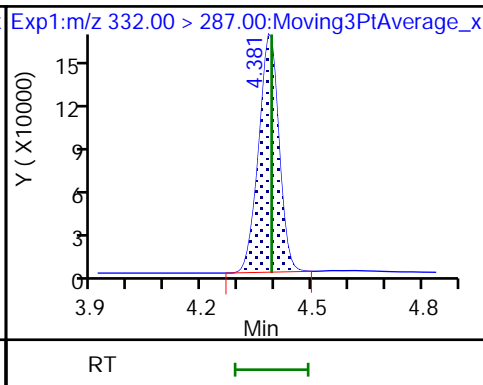
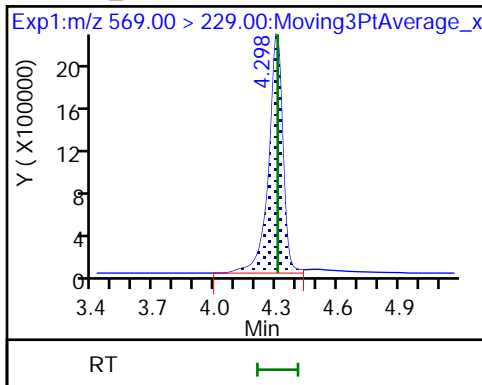
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

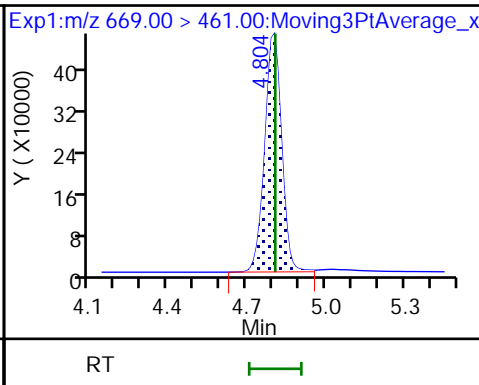
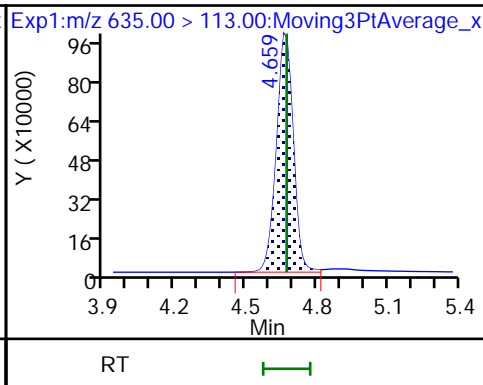
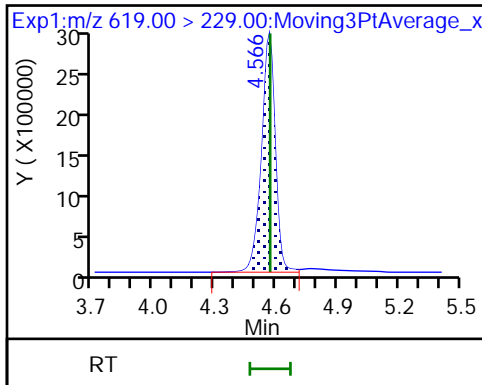
5 BFS_A4B



7 BFS_AB3

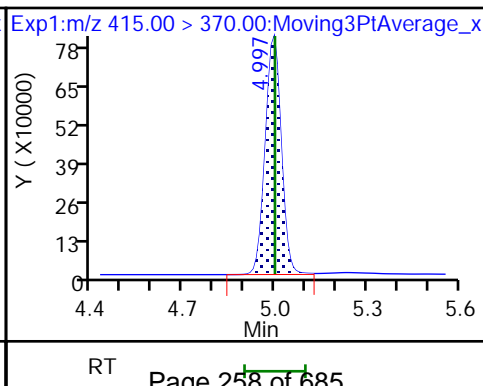
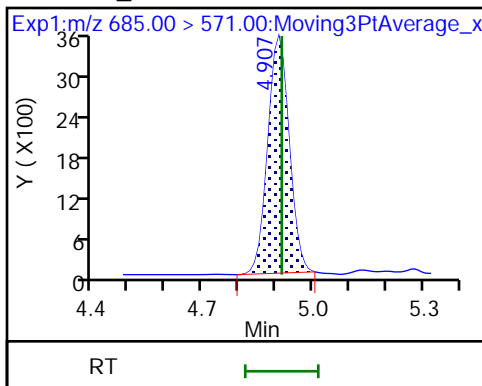
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

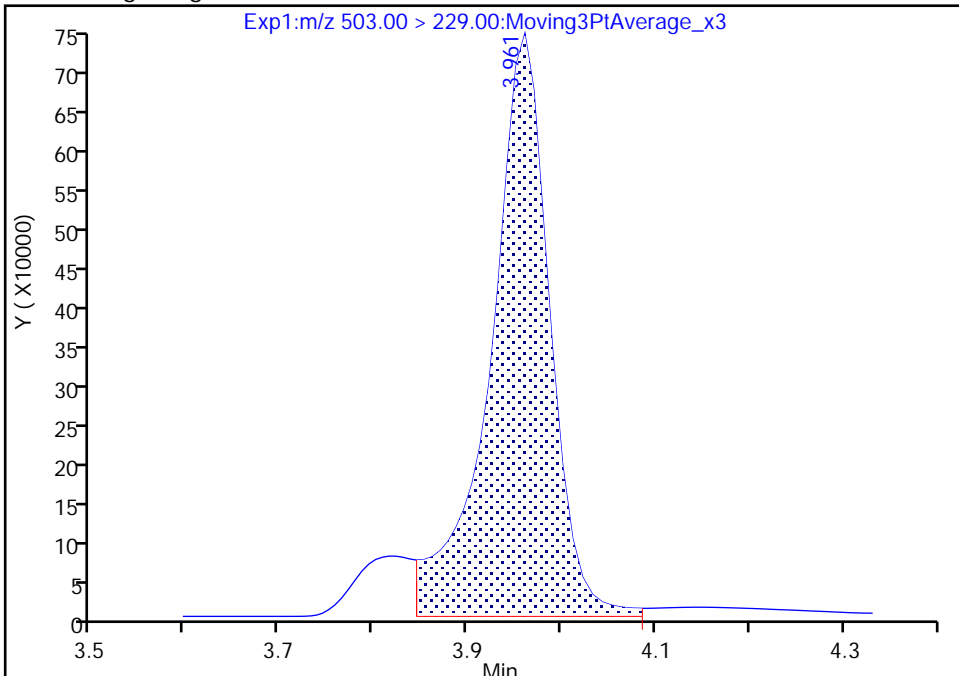
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
Injection Date: 09-Aug-2022 01:31:14 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

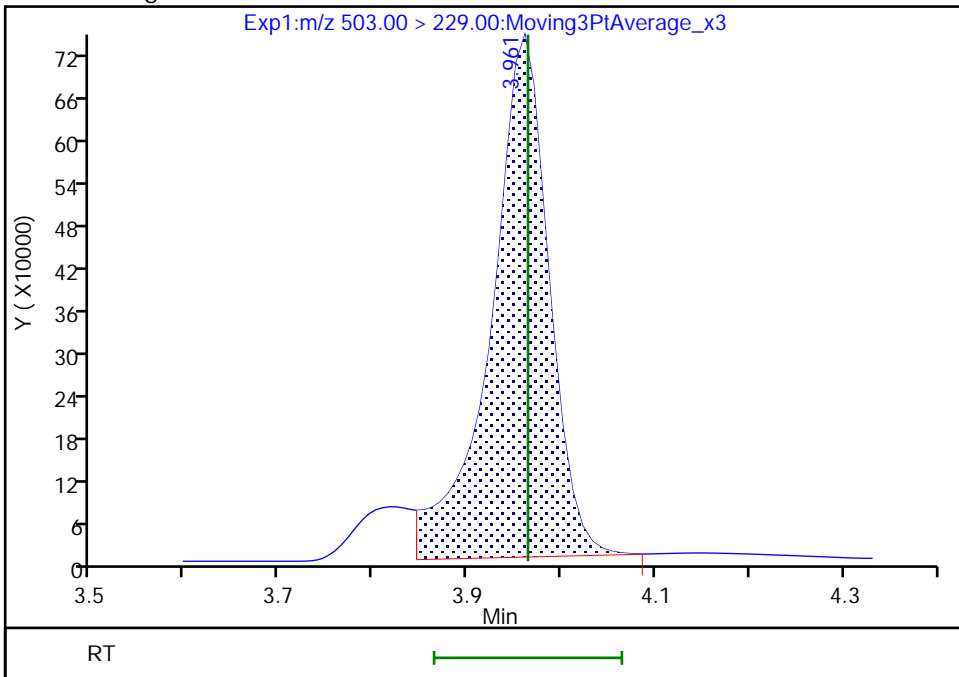
RT: 3.96
Area: 3286577
Amount: 17.598711
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 3198611
Amount: 18.572420
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:08
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

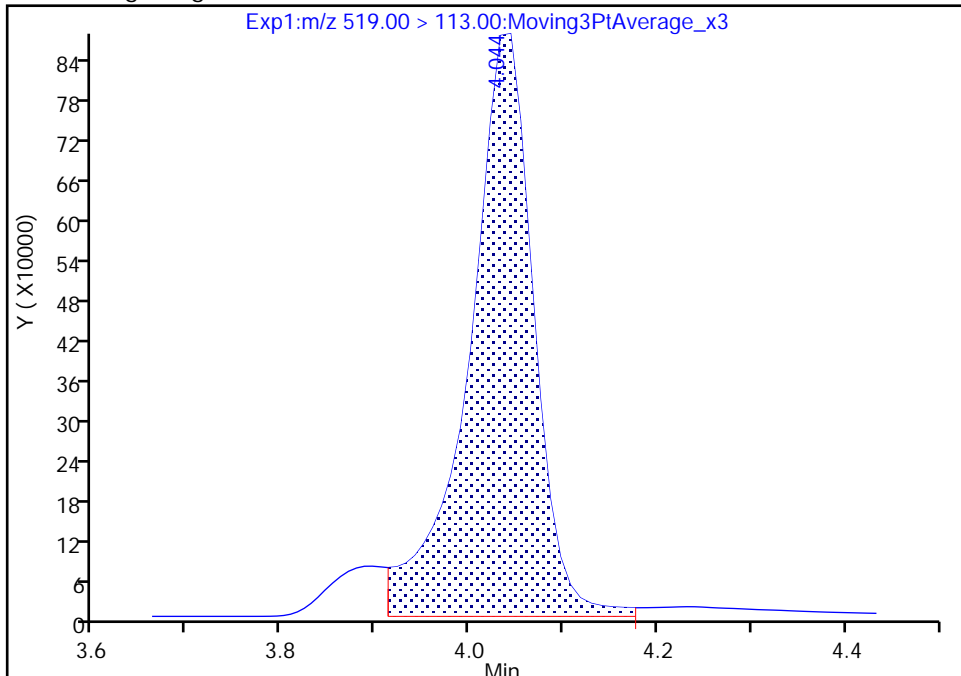
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
Injection Date: 09-Aug-2022 01:31:14 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

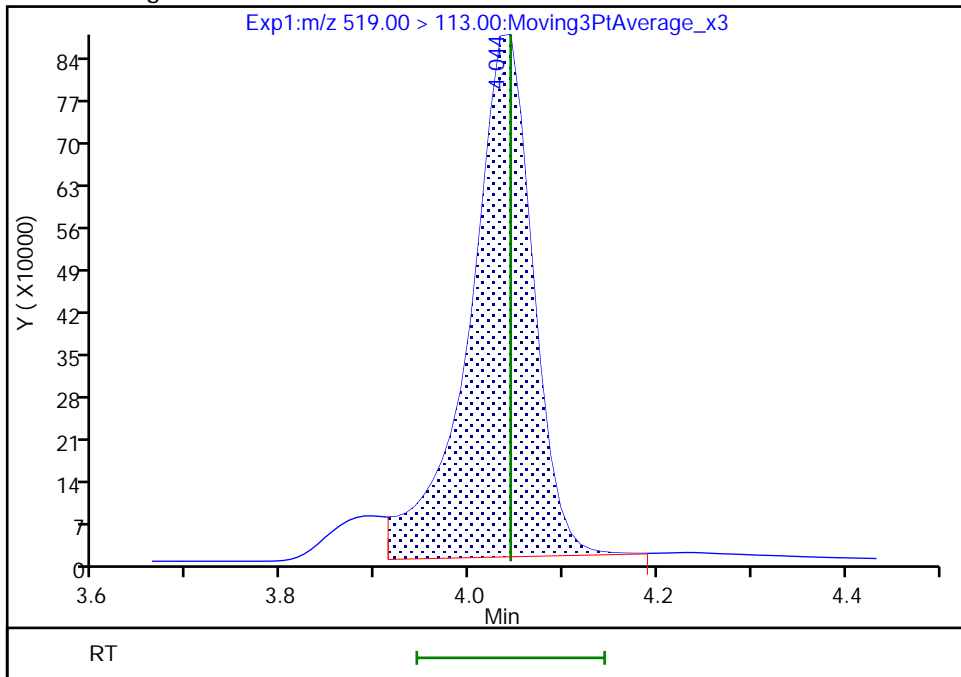
RT: 4.04
Area: 4202662
Amount: 21.098834
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 4085759
Amount: 20.795326
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 09-Aug-2022 01:43:48 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:50 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:43:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.962	3.964	-0.002	0.904	5851103	35.1	98.7	1736	M
2 BFS_A3B									M
519.00 > 113.00	4.034	4.044	-0.010	0.921	7205025	37.7	94.8	59.0	M
3 BFS_B3									M
553.00 > 345.00	4.191	4.203	-0.012	0.956	12776032	124.9	98.5	142	M
4 BFS_A2B2									M
569.00 > 229.00	4.299	4.306	-0.007	0.981	18872981	275.8	99.3	171	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.383	4.390	-0.007	0.878	603912	4.91	98.3	281	
5 BFS_A4B									M
585.00 > 113.00	4.391	4.395	-0.004	1.002	5068364	21.6	98.1	207	M
7 BFS_AB3									
619.00 > 229.00	4.567	4.569	-0.002	1.042	24793733	287.2	96.5	167	
8 BFS_A3B2									
635.00 > 113.00	4.664	4.671	-0.007	1.064	8785418	52.5	100	182	
9 BFS_B4									
669.00 > 461.00	4.797	4.807	-0.010	1.095	3844514	69.8	101	229	
10 BFS_A2B3									M
685.00 > 571.00	4.911	4.915	-0.004	1.121	28574	5.45	104	169	M
* 11 13C2 PFOA									
415.00 > 370.00	4.990	4.998	-0.008		2868292	5.00		326	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS9_00004

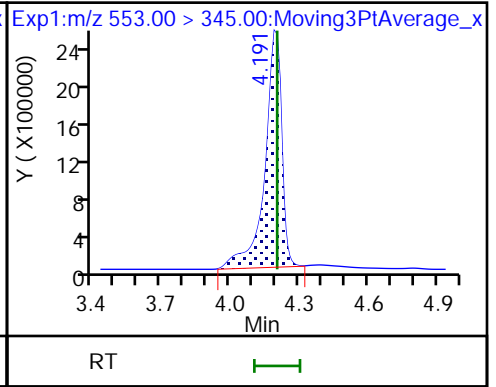
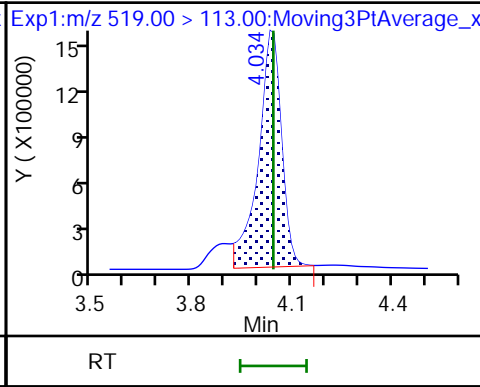
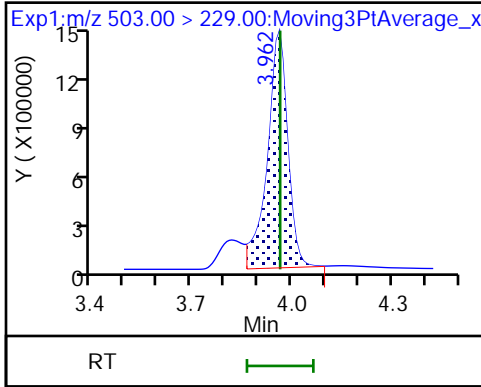
Amount Added: 200.00

Units: uL

1 BFS_AB2 (M)

2 BFS_A3B (M)

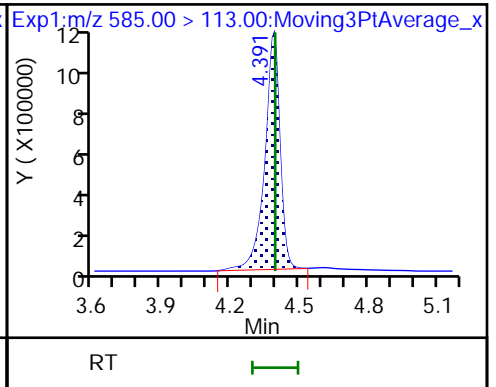
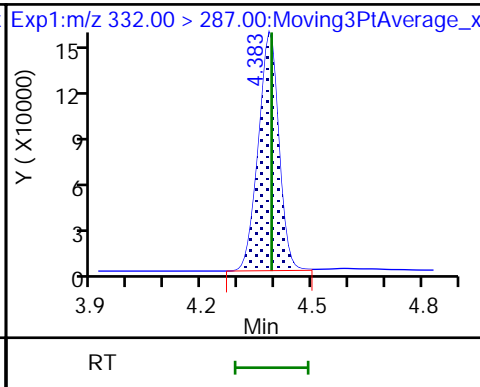
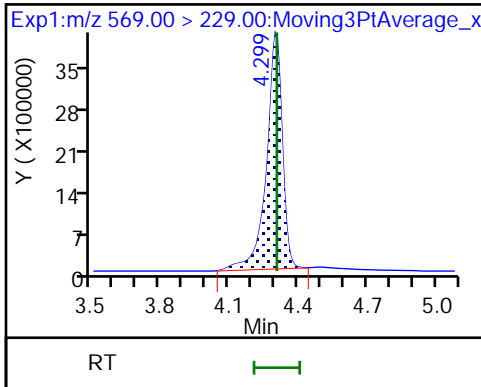
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

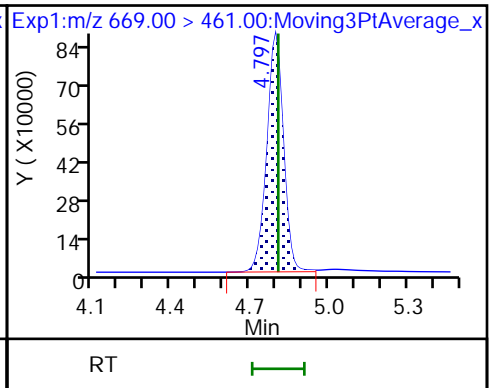
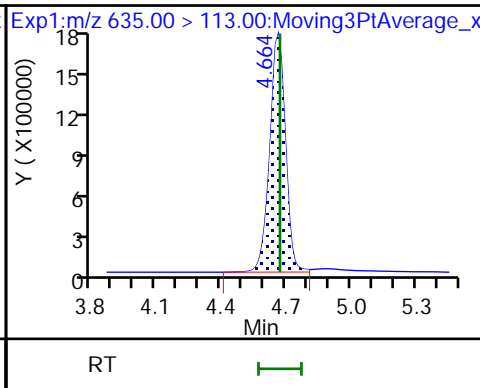
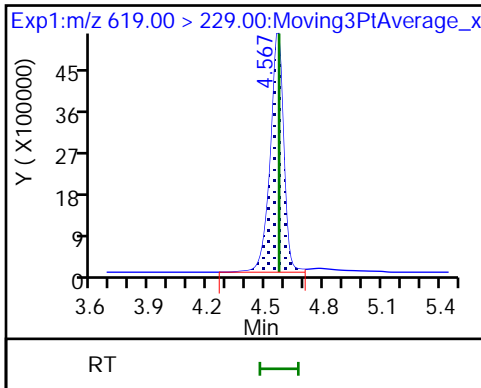
5 BFS_A4B (M)



7 BFS_AB3

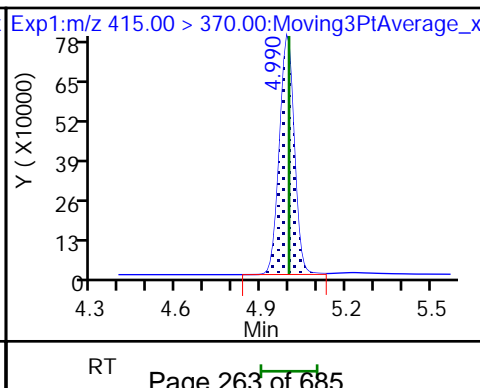
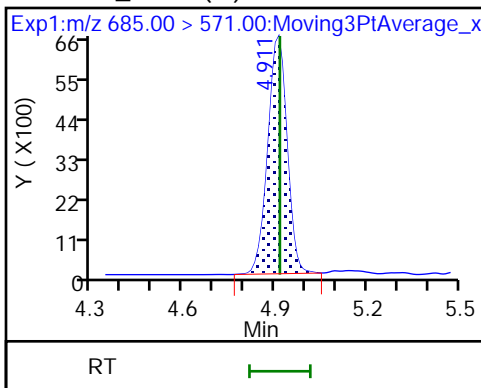
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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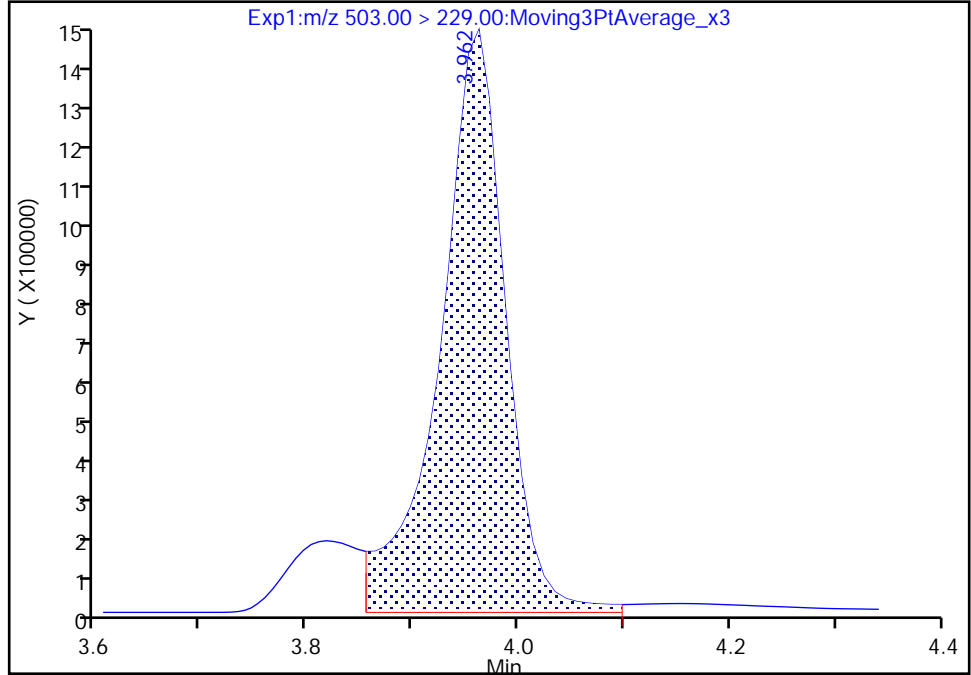
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

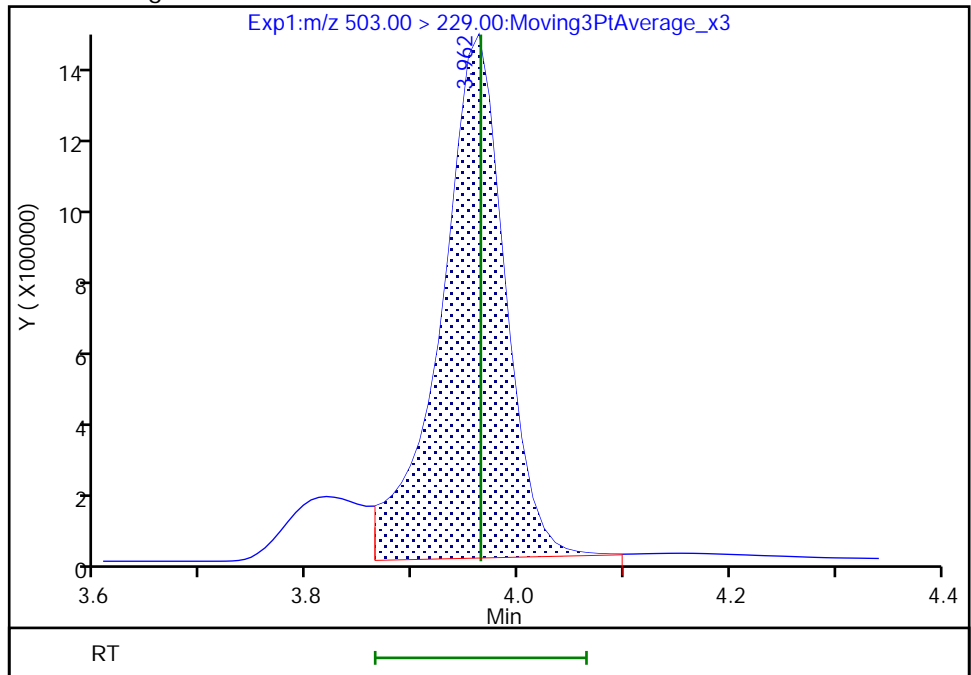
RT: 3.96
Area: 6062025
Amount: 34.409204
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 5851103
Amount: 35.145667
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:29
Audit Action: Manually Integrated

Audit Reason: Baseline
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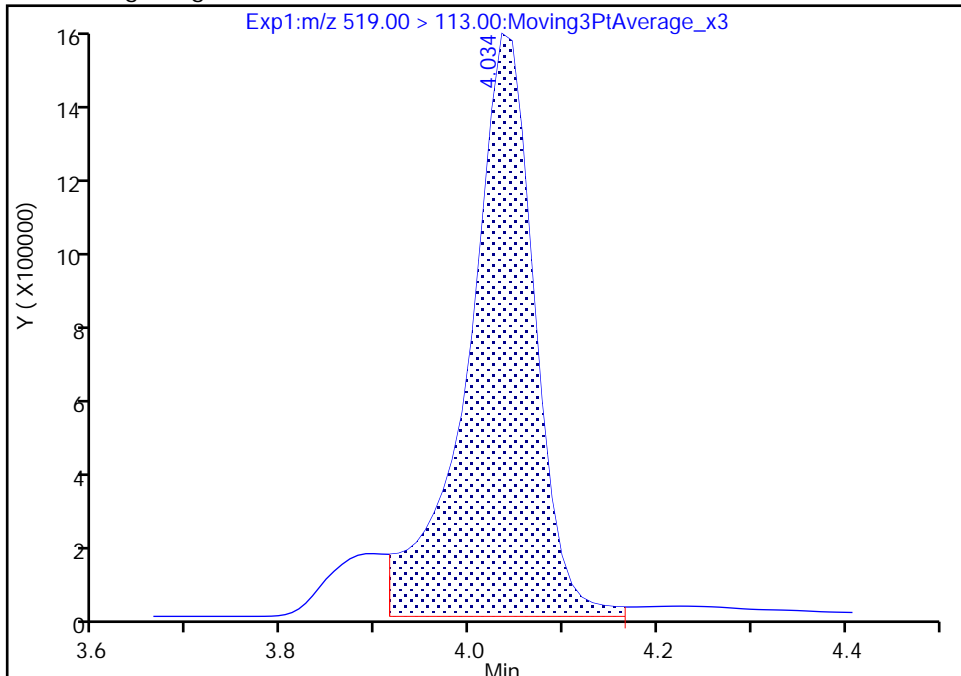
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

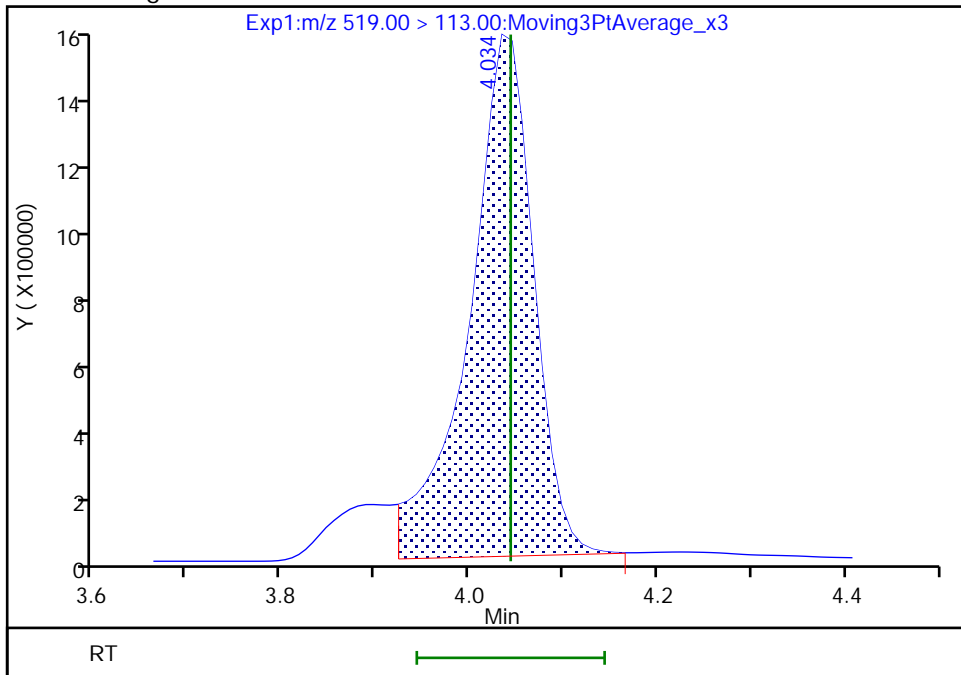
RT: 4.03
Area: 7512577
Amount: 38.624658
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 7205025
Amount: 37.730255
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:33
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

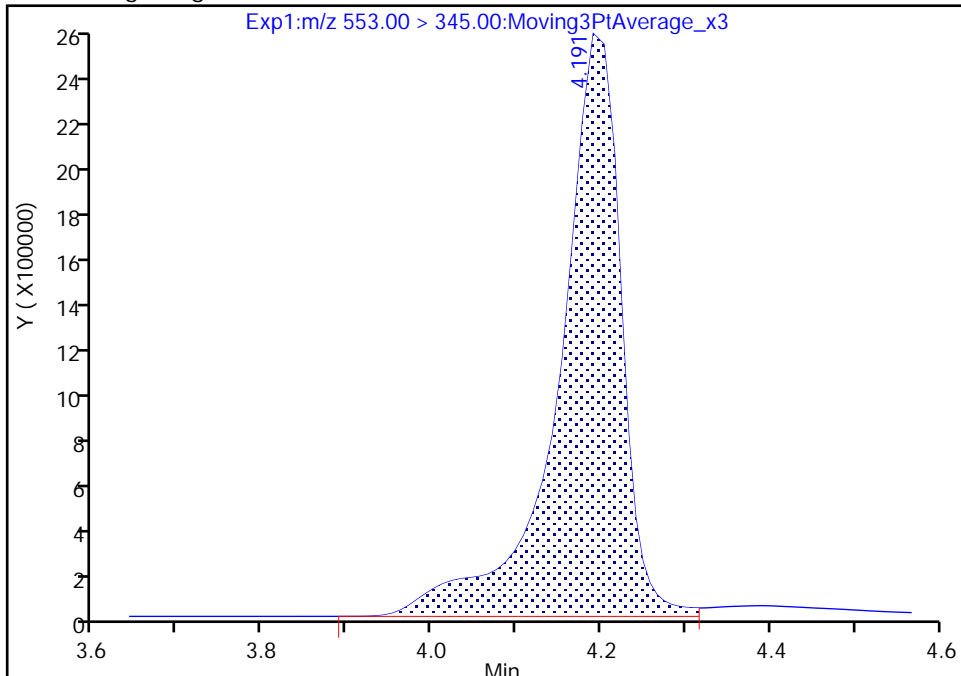
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

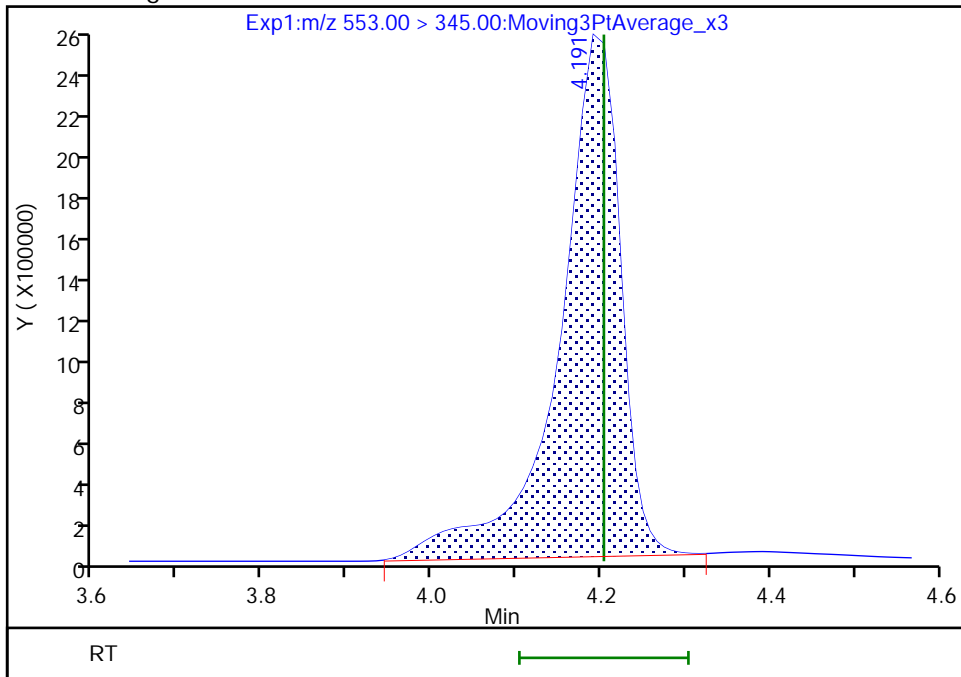
RT: 4.19
Area: 13150745
Amount: 125.4803
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 12776032
Amount: 124.9195
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:38
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

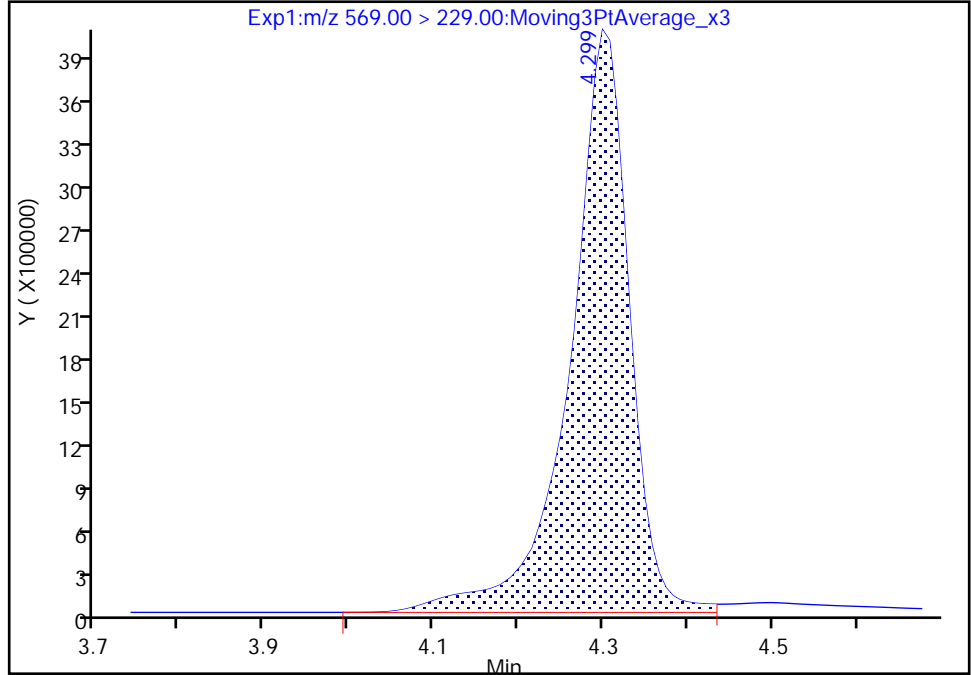
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Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

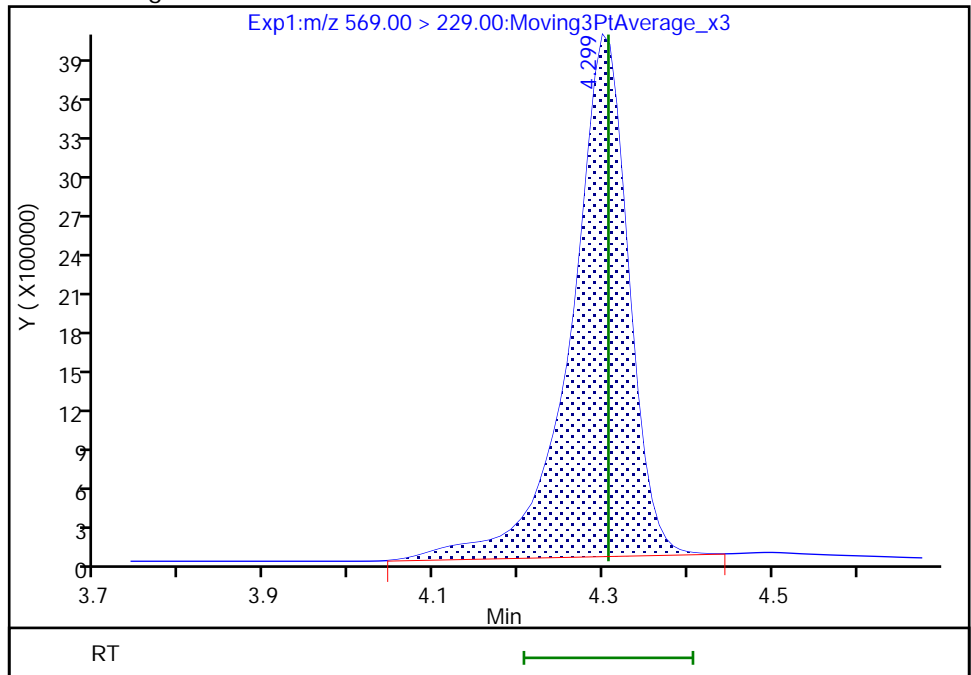
RT: 4.30
Area: 19506415
Amount: 277.3948
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 18872981
Amount: 275.7706
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:43
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

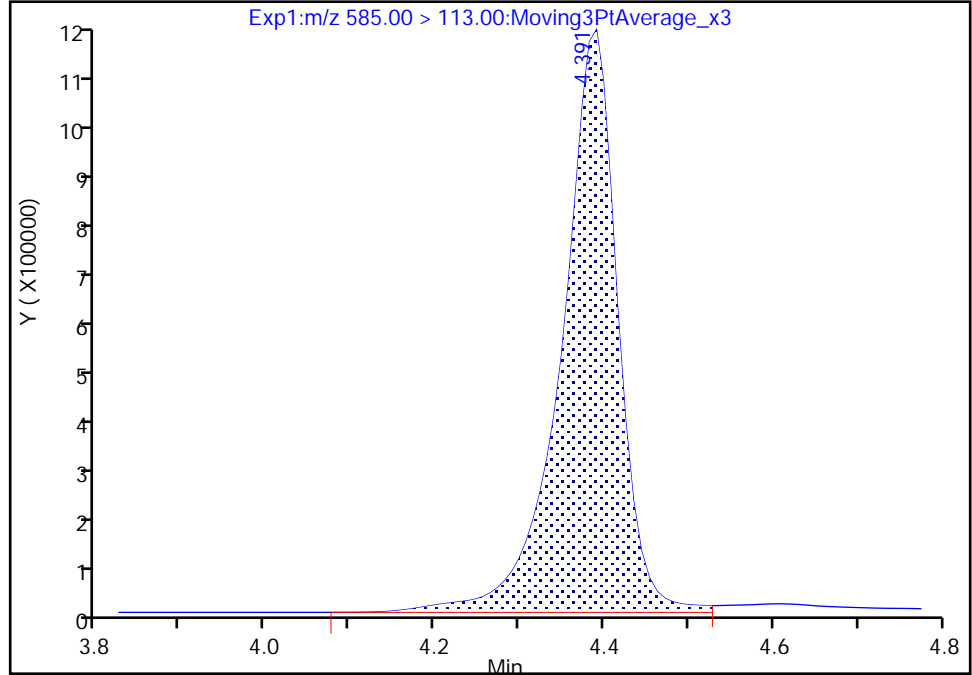
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Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

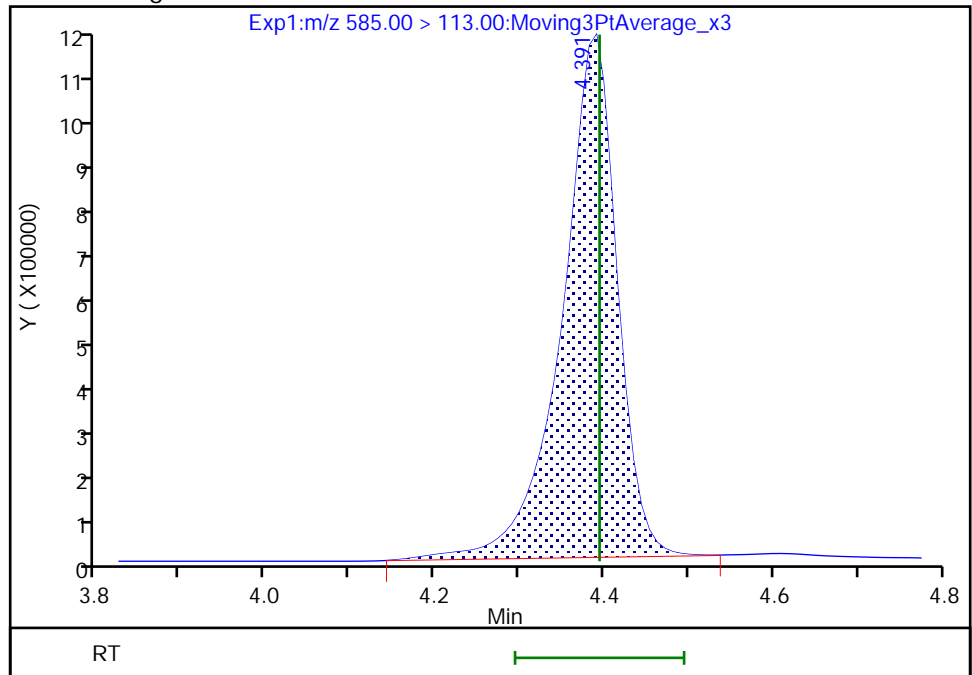
RT: 4.39
Area: 5224290
Amount: 22.088584
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 5068364
Amount: 21.575007
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:46
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

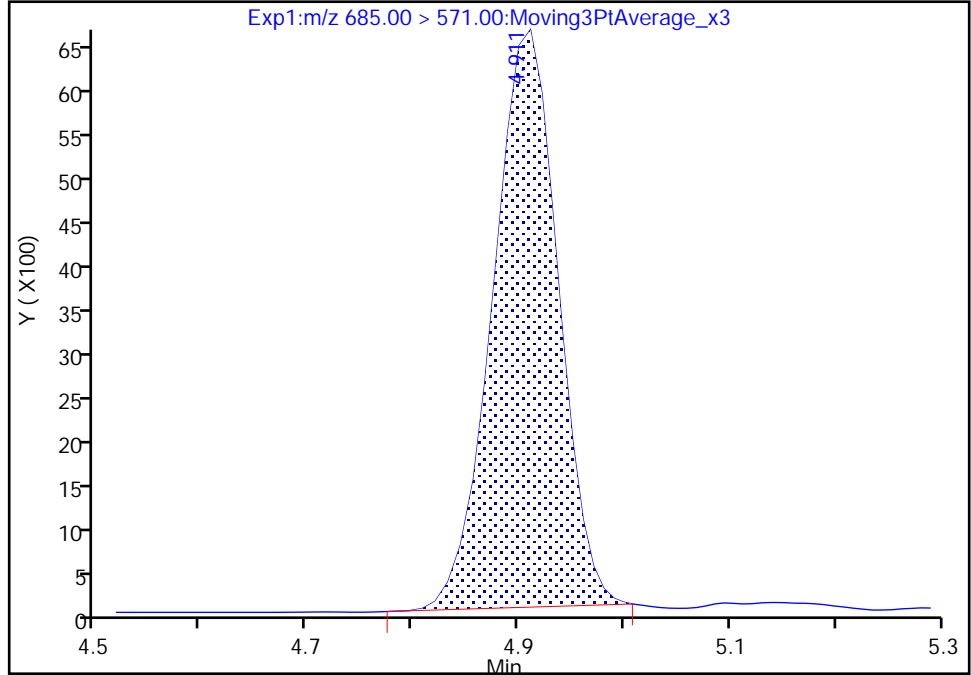
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Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

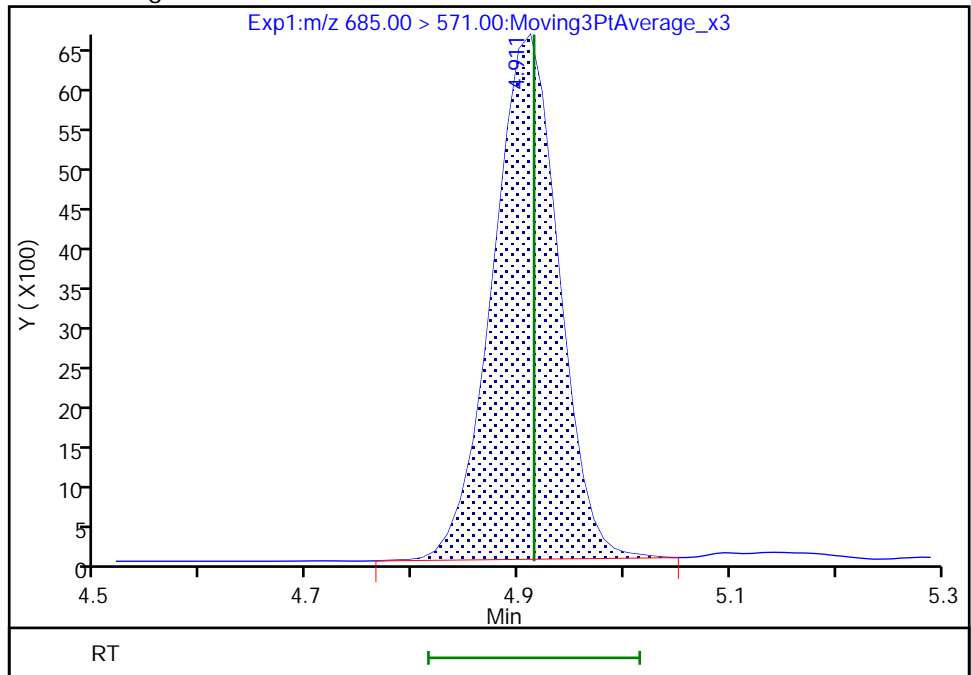
RT: 4.91
Area: 28090
Amount: 5.281686
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 28574
Amount: 5.450567
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:53
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 09-Aug-2022 01:56:25 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:52 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:44:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.964	-0.003	0.903	15424775	88.7	99.6	2300	M
2 BFS_A3B									M
519.00 > 113.00	4.042	4.044	-0.002	0.921	20573000	100.3	101	158	M
3 BFS_B3									M
553.00 > 345.00	4.201	4.203	-0.003	0.957	31759941	318.1	100	137	M
4 BFS_A2B2									M
569.00 > 229.00	4.305	4.306	-0.001	0.981	45491370	681.1	98.1	159	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.390	-0.002	0.878	589465	4.79	95.9	284	
5 BFS_A4B									
585.00 > 113.00	4.388	4.395	-0.007	1.000	12732378	55.5	101	171	
7 BFS_AB3									
619.00 > 229.00	4.564	4.569	-0.005	1.040	56956631	761.4	102	149	
8 BFS_A3B2									
635.00 > 113.00	4.671	4.671	0.0	1.065	20577614	129.9	99.2	153	
9 BFS_B4									
669.00 > 461.00	4.804	4.807	-0.003	1.095	9133524	169.8	98.2	198	
10 BFS_A2B3									
685.00 > 571.00	4.907	4.915	-0.008	1.118	68639	12.9	98.8	172	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.002		2869550	5.00		321	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Injection Date: 09-Aug-2022 01:56:25

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

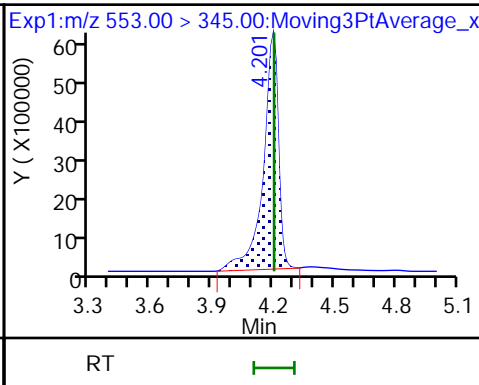
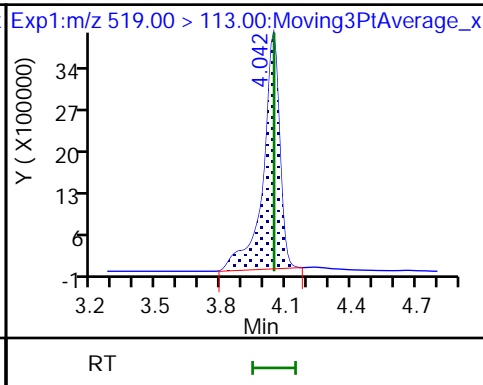
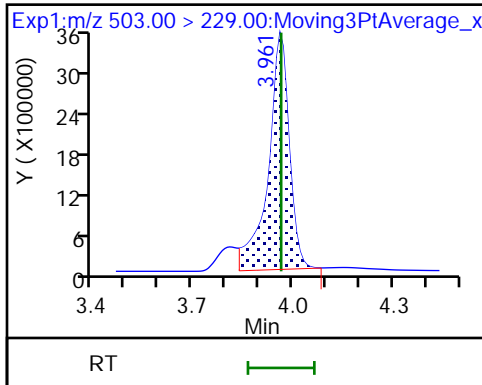
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

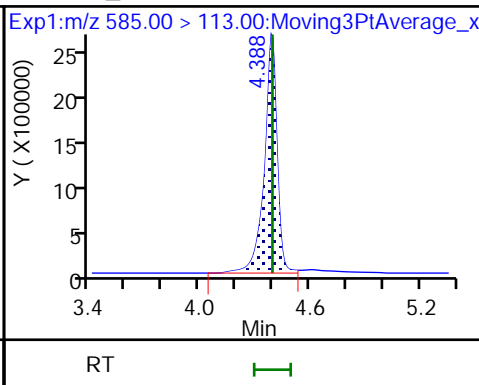
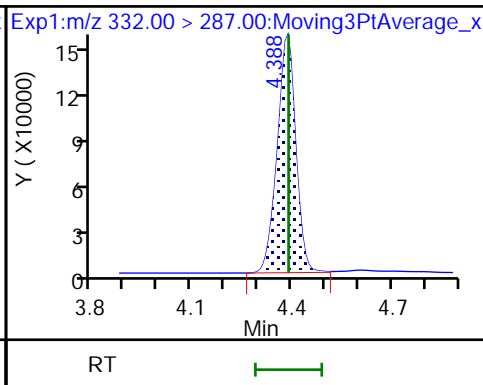
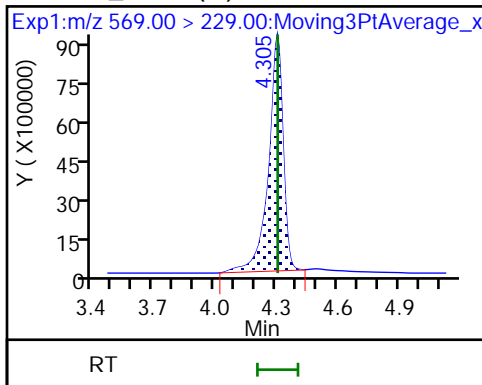
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

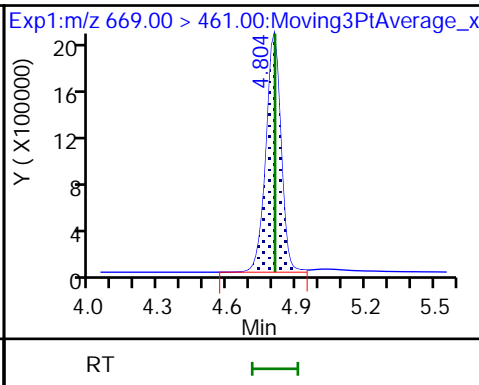
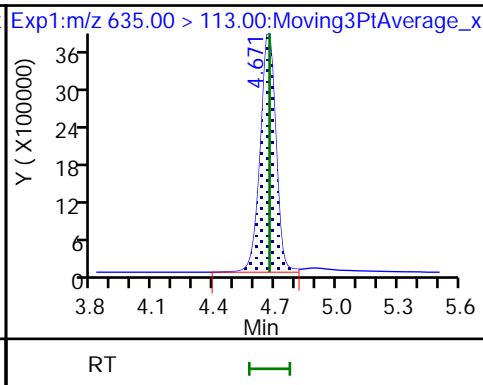
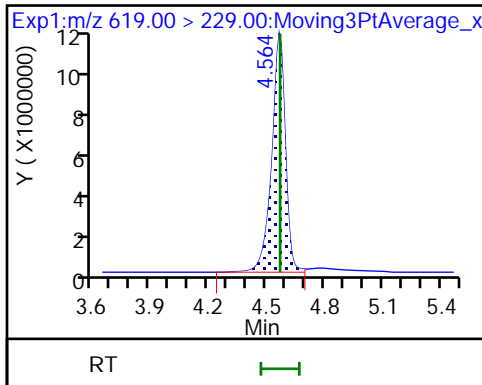
5 BFS_A4B



7 BFS_AB3

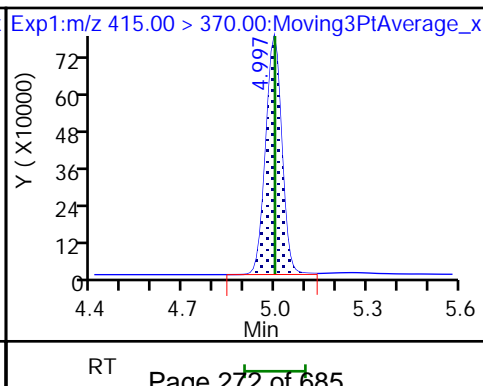
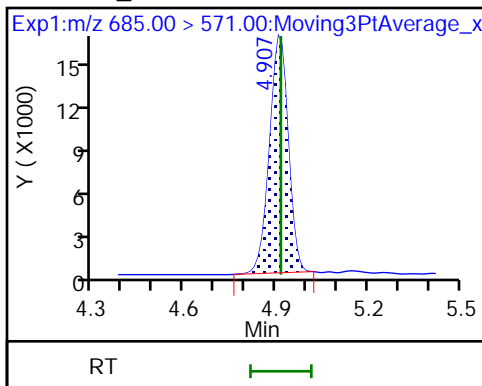
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



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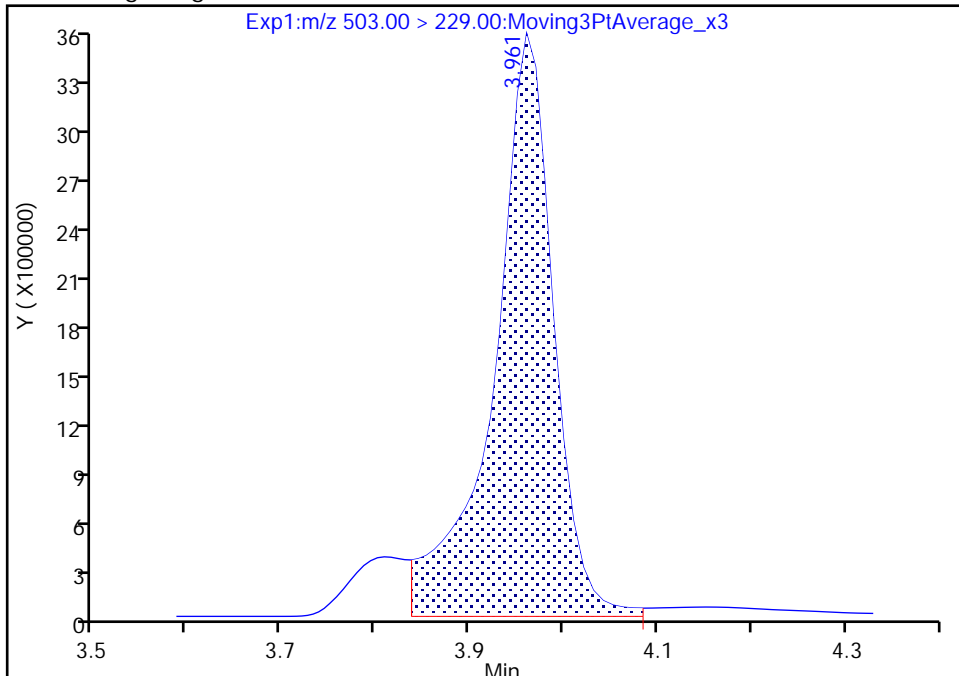
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

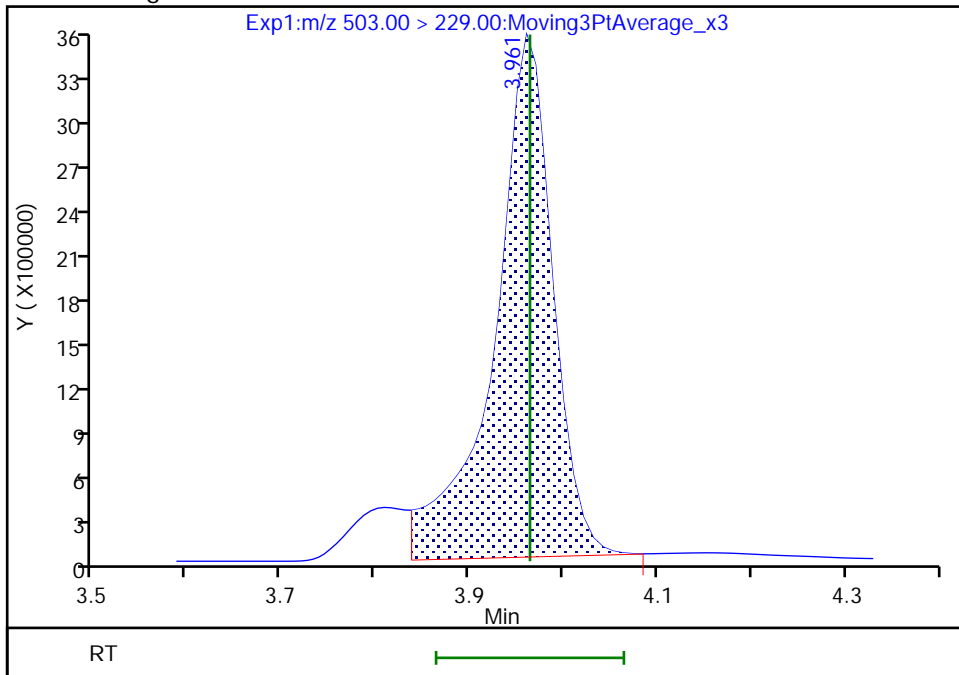
RT: 3.96
Area: 15843921
Amount: 92.803173
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 15424775
Amount: 88.683250
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:07
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

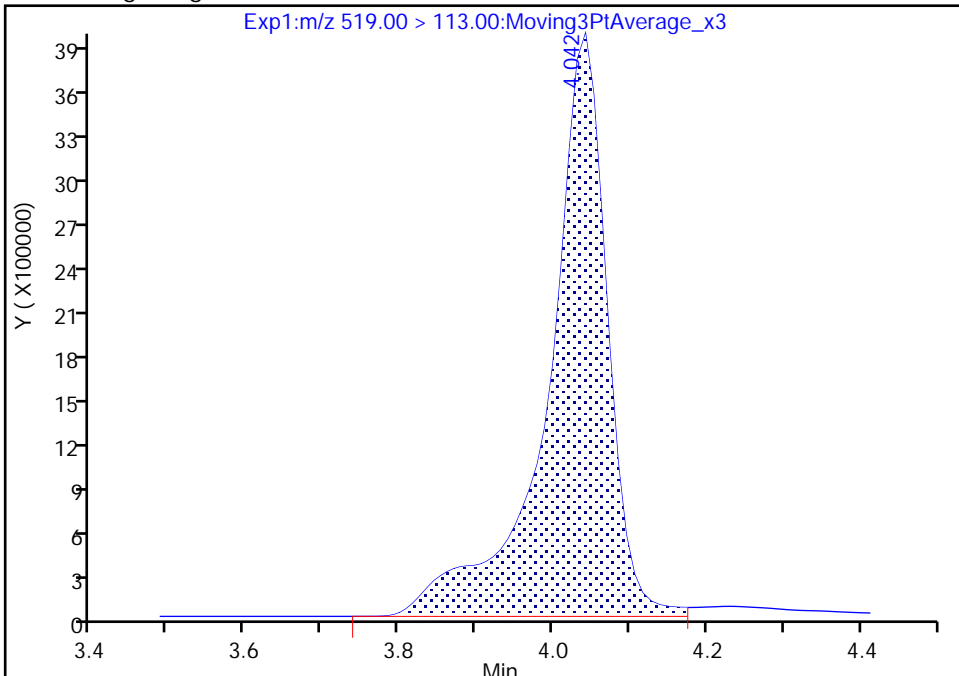
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

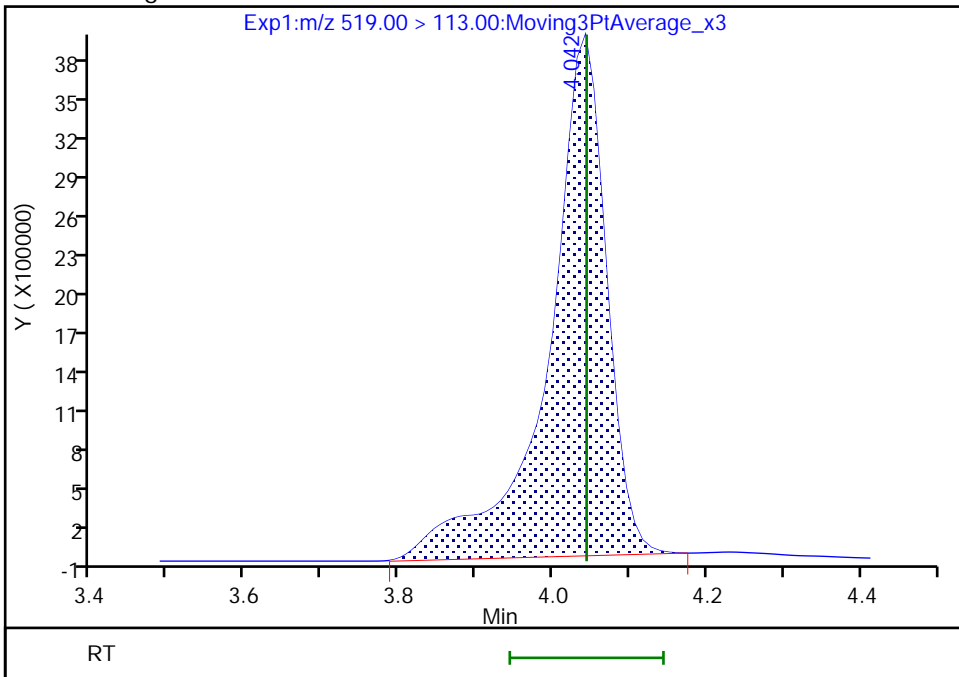
RT: 4.04
Area: 21269447
Amount: 100.6733
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 20573000
Amount: 100.3379
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:12
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

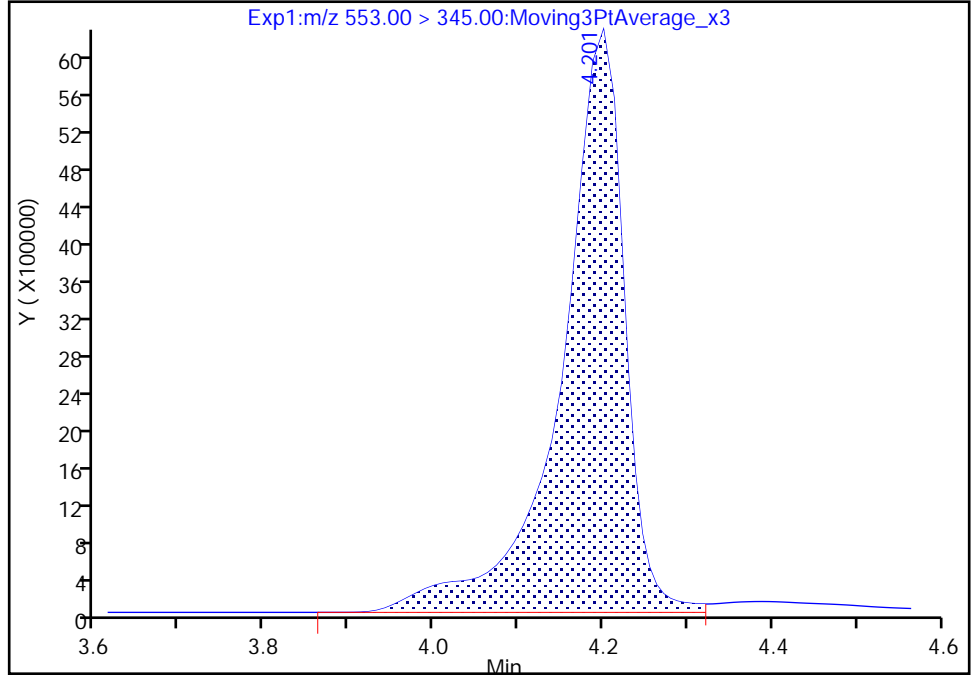
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

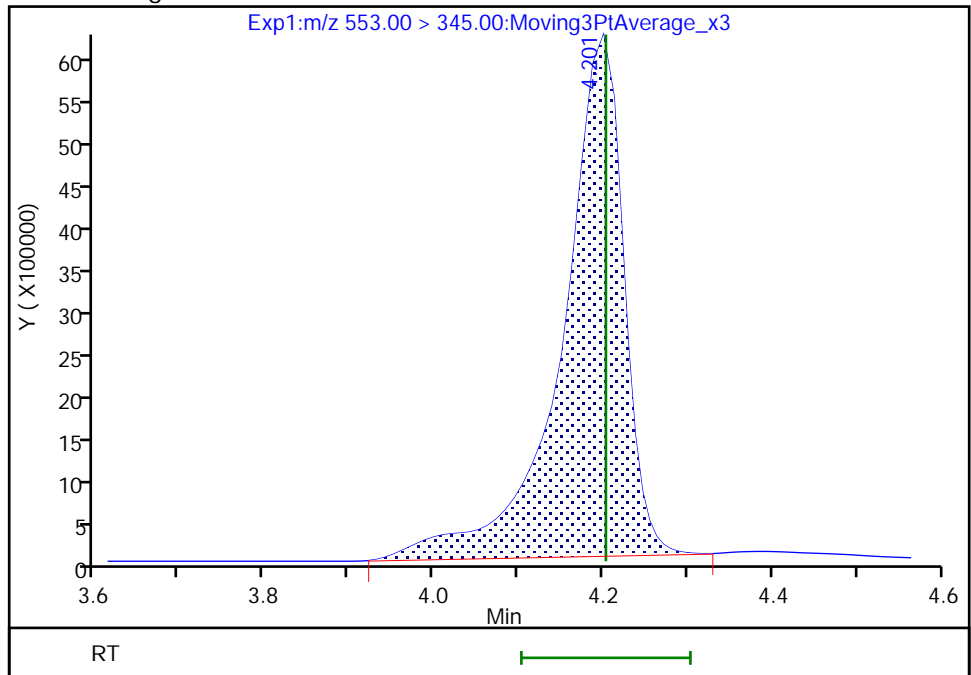
RT: 4.20
Area: 32781085
Amount: 322.4278
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 31759941
Amount: 318.0986
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:15
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 275 of 685

Eurofins Lancaster Laboratories Environment Testing, LLC

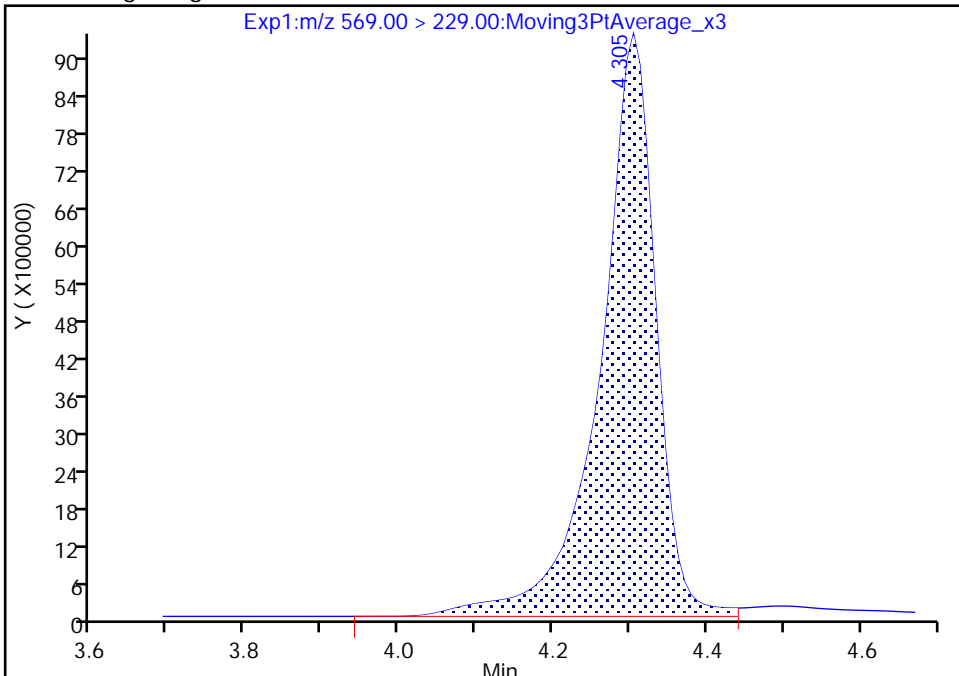
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

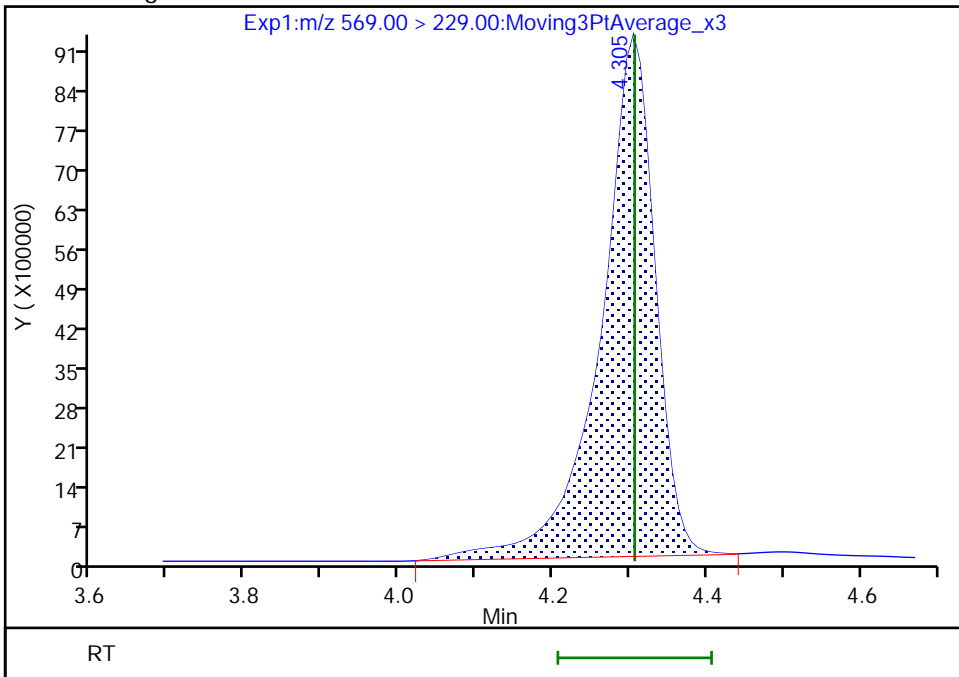
RT: 4.30
Area: 47134382
Amount: 691.7912
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 45491370
Amount: 681.0877
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:19
Audit Action: Manually Integrated

Audit Reason: Baseline
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Calibration

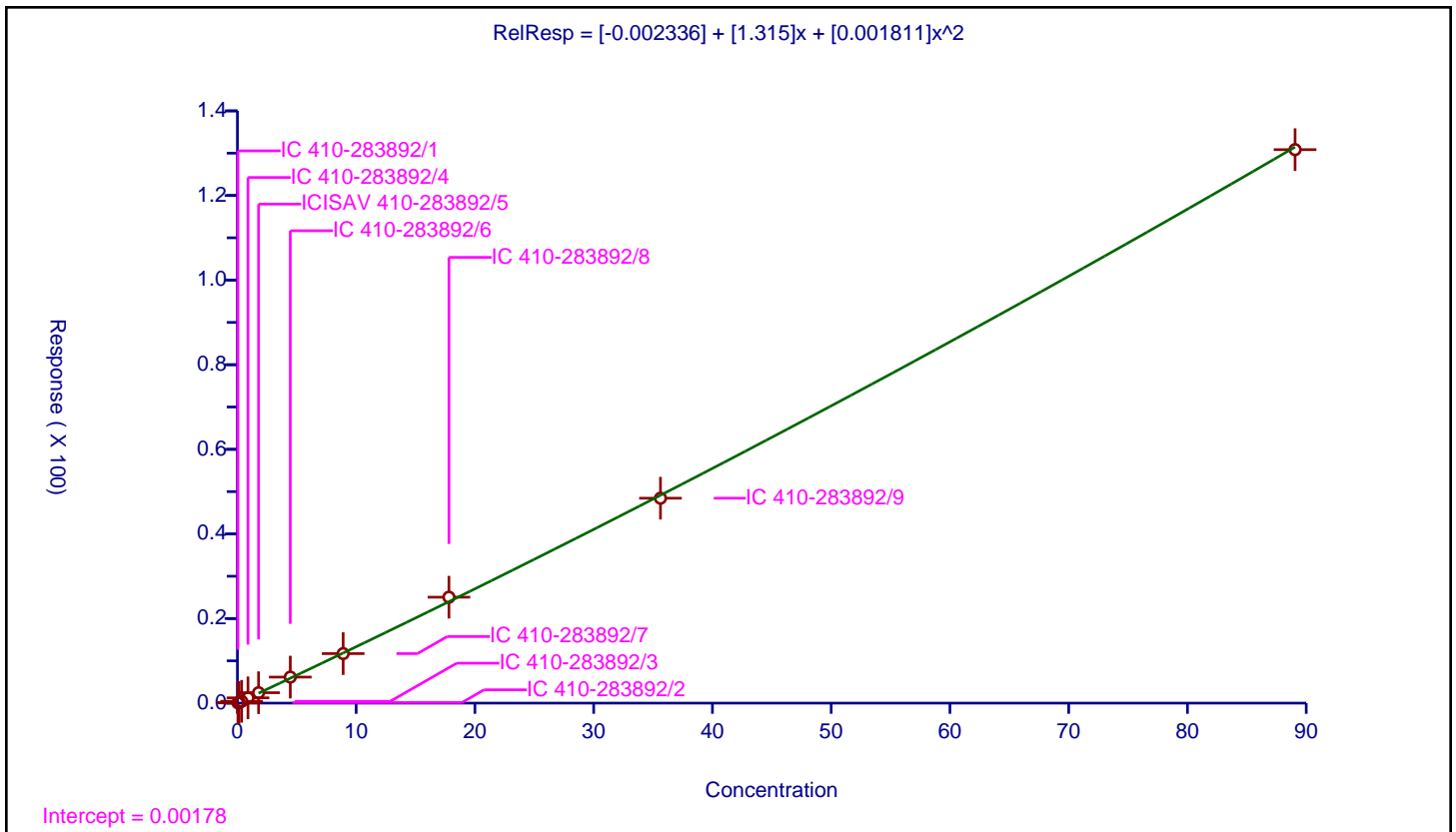
/ BFS_AB2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.002336
Slope:	1.315
Second Order:	0.001811

Error Coefficients	
Standard Error:	6390000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.044531	0.059691	5.0	654204.0	1.340434	Y
2	IC 410-283892/2	0.133593	0.143879	5.0	691937.0	1.076993	Y
3	IC 410-283892/3	0.356248	0.434049	5.0	682883.0	1.218391	Y
4	IC 410-283892/4	0.89062	1.250344	5.0	675382.0	1.403903	Y
5	ICISAV 410-283892/5	1.78124	2.464896	5.0	663036.0	1.383809	Y
6	IC 410-283892/6	4.4531	6.153505	5.0	637015.0	1.381847	Y
7	IC 410-283892/7	8.9062	11.706375	5.0	656951.0	1.314407	Y
8	IC 410-283892/8	17.8124	25.04107	5.0	638673.0	1.405822	Y
9	IC 410-283892/9	35.6248	48.443341	5.0	603912.0	1.359821	Y
10	IC 410-283892/10	89.062	130.837073	5.0	589465.0	1.469056	Y



Calibration

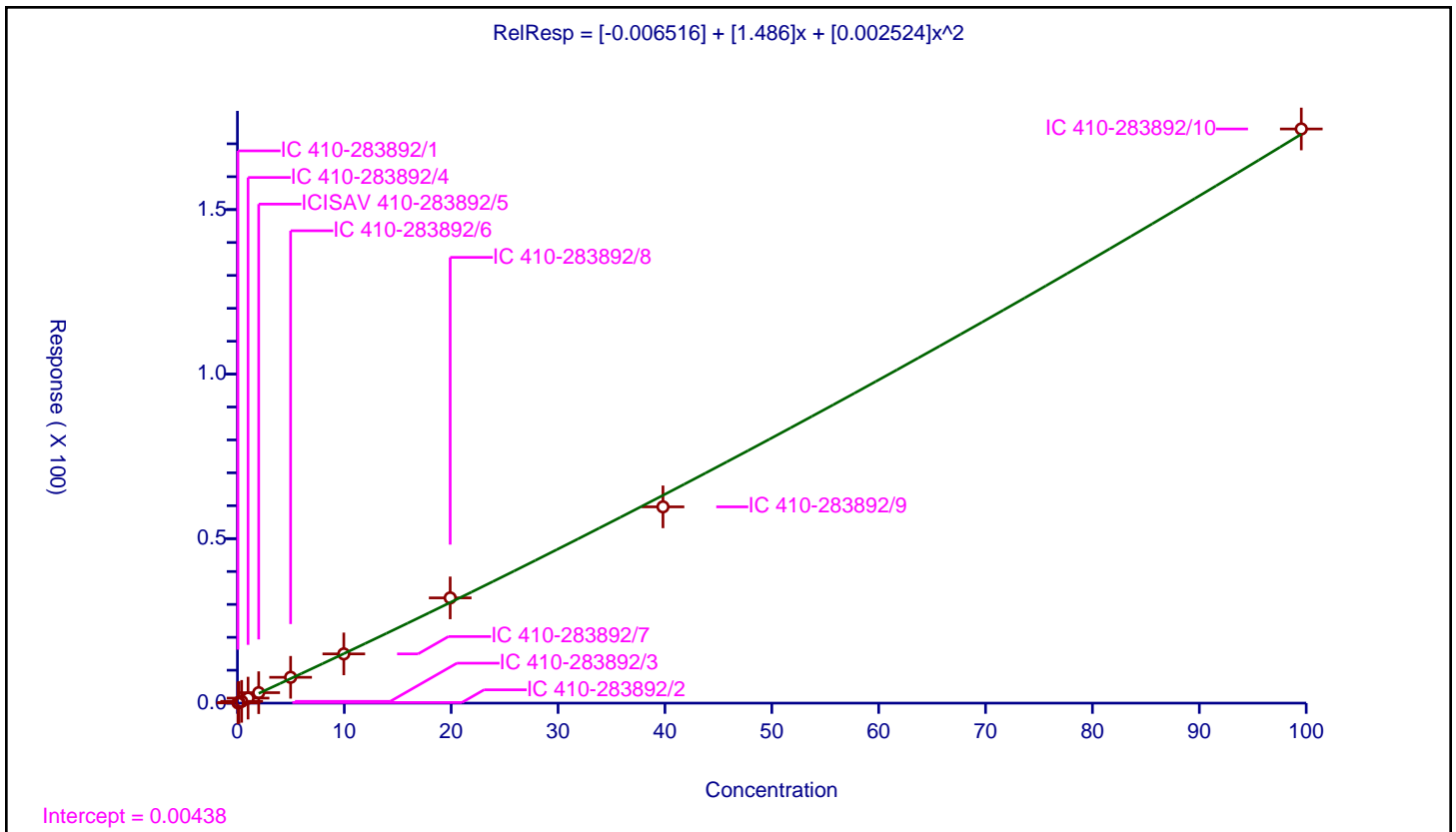
/ BFS_A3B

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006516
Slope:	1.486
Second Order:	0.002524

Error Coefficients	
Standard Error:	8430000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.04977	0.070712	5.0	654204.0	1.42078	Y
2	IC 410-283892/2	0.149309	0.190321	5.0	691937.0	1.274675	Y
3	IC 410-283892/3	0.398158	0.535751	5.0	682883.0	1.345573	Y
4	IC 410-283892/4	0.995395	1.525833	5.0	675382.0	1.532892	Y
5	ICISAV 410-283892/5	1.99079	3.173817	5.0	663036.0	1.59425	Y
6	IC 410-283892/6	4.976975	7.844234	5.0	637015.0	1.576105	Y
7	IC 410-283892/7	9.95395	14.959282	5.0	656951.0	1.502849	Y
8	IC 410-283892/8	19.9079	31.986314	5.0	638673.0	1.606715	Y
9	IC 410-283892/9	39.8158	59.652938	5.0	603912.0	1.498223	Y
10	IC 410-283892/10	99.5395	174.505696	5.0	589465.0	1.75313	Y



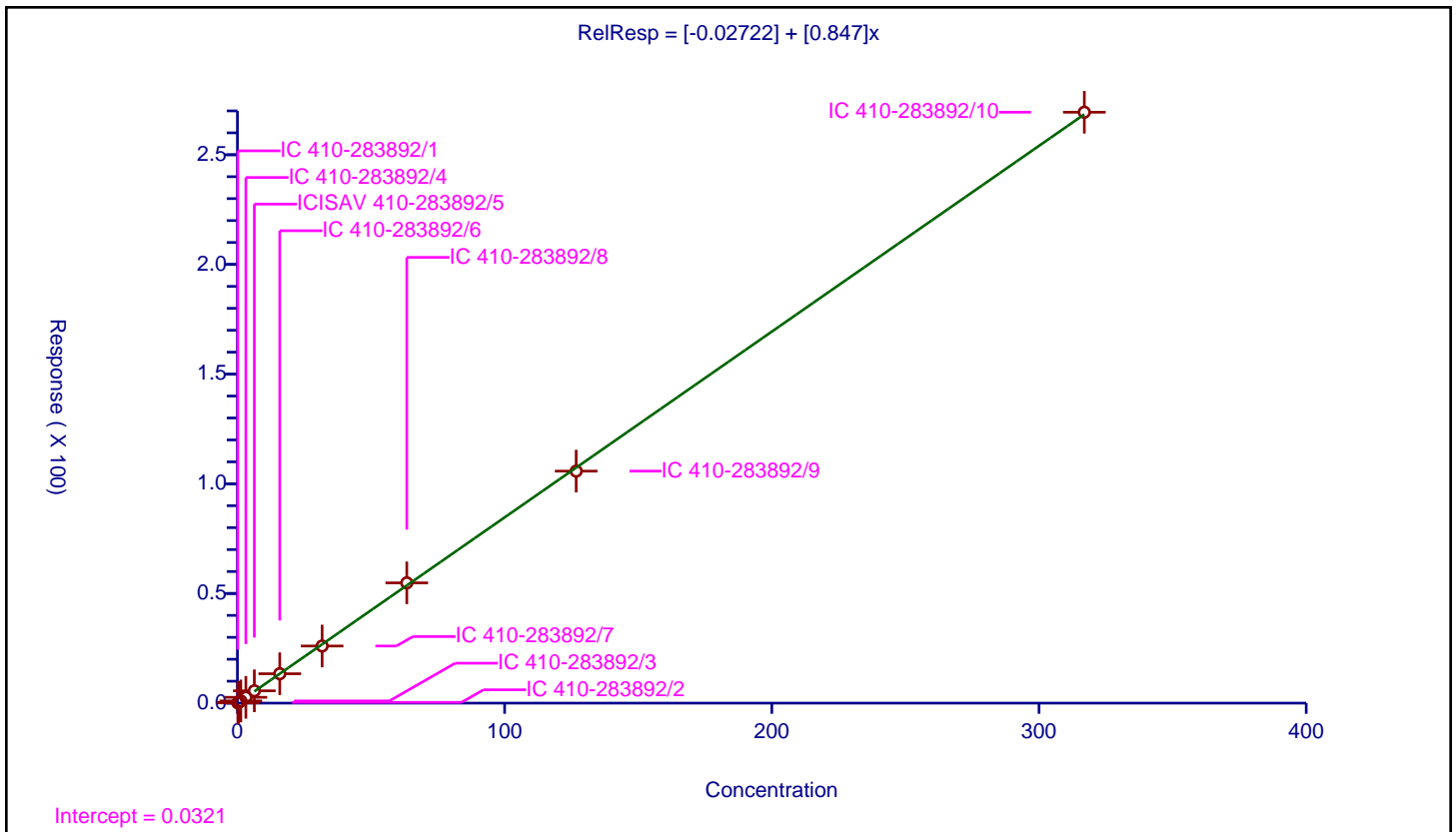
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02722
Slope:	0.847

Error Coefficients	
Standard Error:	12400000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.158478	0.113718	5.0	654204.0	0.717567	Y
2	IC 410-283892/2	0.475433	0.356904	5.0	691937.0	0.750692	Y
3	IC 410-283892/3	1.267822	1.007523	5.0	682883.0	0.794688	Y
4	IC 410-283892/4	3.169555	2.658103	5.0	675382.0	0.838636	Y
5	ICISAV 410-283892/5	6.33911	5.610902	5.0	663036.0	0.885125	Y
6	IC 410-283892/6	15.847775	13.403217	5.0	637015.0	0.845748	Y
7	IC 410-283892/7	31.69555	26.03781	5.0	656951.0	0.821497	Y
8	IC 410-283892/8	63.3911	54.827345	5.0	638673.0	0.864906	Y
9	IC 410-283892/9	126.7822	105.777266	5.0	603912.0	0.834323	Y
10	IC 410-283892/10	316.9555	269.396325	5.0	589465.0	0.84995	Y



Calibration

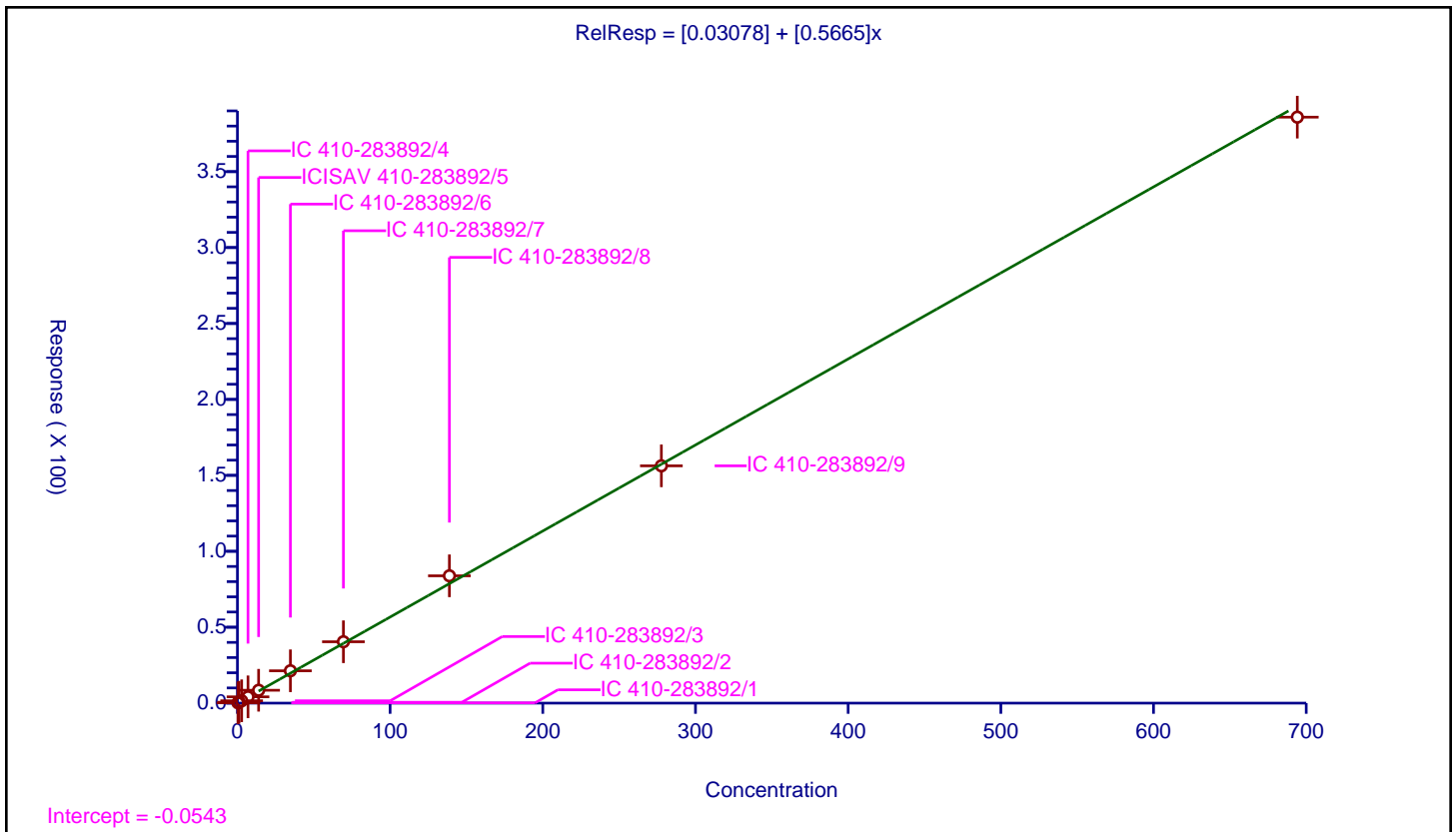
/ BFS_A2B2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.03078
Slope:	0.5665

Error Coefficients	
Standard Error:	17900000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.347079	0.198004	5.0	654204.0	0.570486	Y
2	IC 410-283892/2	1.041238	0.568455	5.0	691937.0	0.545942	Y
3	IC 410-283892/3	2.776634	1.550478	5.0	682883.0	0.558402	Y
4	IC 410-283892/4	6.941585	4.15644	5.0	675382.0	0.598774	Y
5	ICISAV 410-283892/5	13.88317	8.477043	5.0	663036.0	0.610599	Y
6	IC 410-283892/6	34.707925	21.302834	5.0	637015.0	0.613774	Y
7	IC 410-283892/7	69.41585	40.411629	5.0	656951.0	0.582167	Y
8	IC 410-283892/8	138.8317	83.850507	5.0	638673.0	0.603972	Y
9	IC 410-283892/9	277.6634	156.256052	5.0	603912.0	0.562754	Y
10	IC 410-283892/10	694.1585	385.869984	5.0	589465.0	0.555882	Y



Calibration

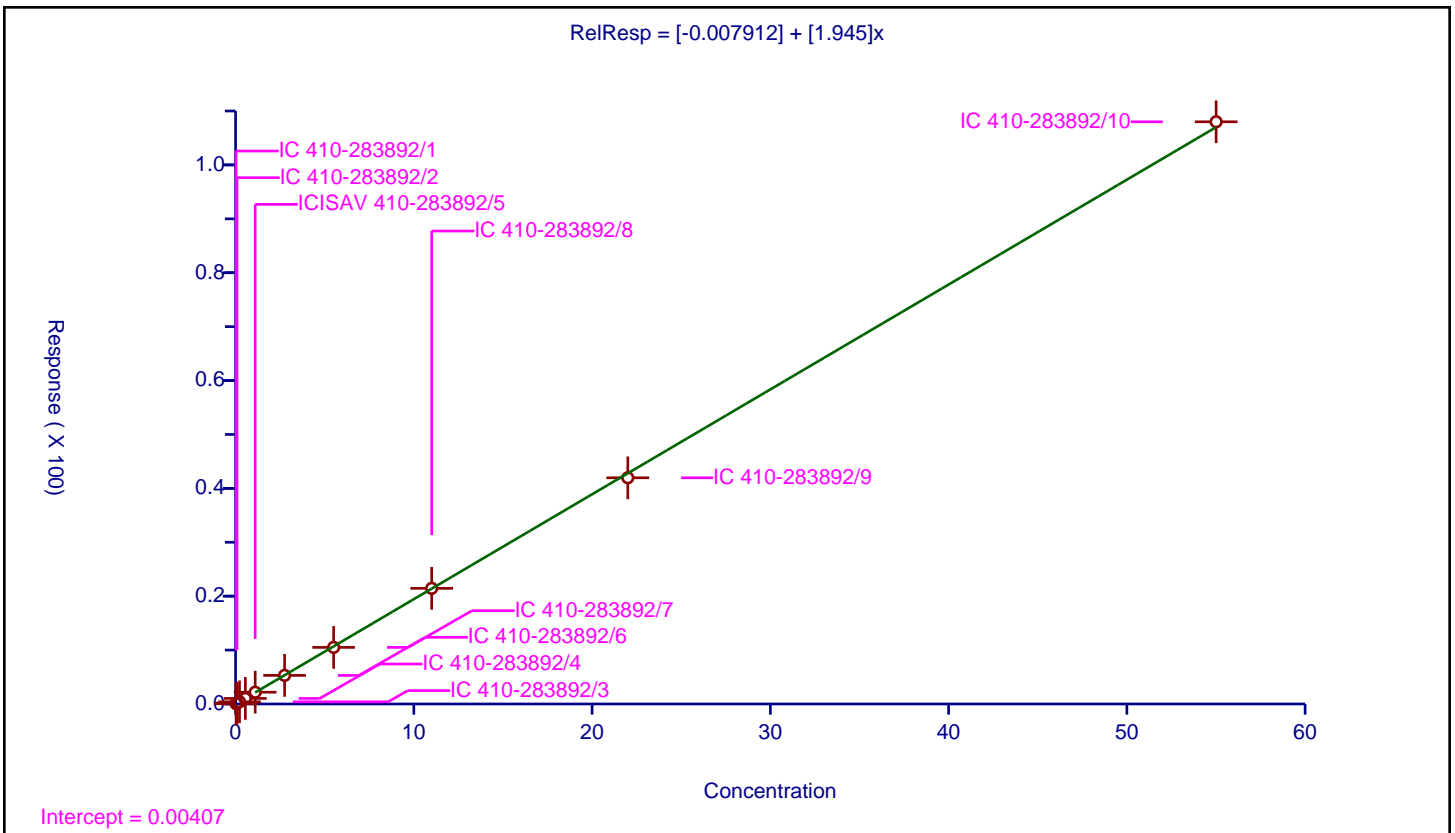
/ BFS_A4B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.007912
Slope:	1.945

Error Coefficients	
Standard Error:	4970000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.027505	0.048502	5.0	654204.0	1.763409	Y
2	IC 410-283892/2	0.082514	0.155693	5.0	691937.0	1.886884	Y
3	IC 410-283892/3	0.220036	0.405282	5.0	682883.0	1.841888	Y
4	IC 410-283892/4	0.55009	1.02958	5.0	675382.0	1.871658	Y
5	ICISAV 410-283892/5	1.10018	2.183547	5.0	663036.0	1.984718	Y
6	IC 410-283892/6	2.75045	5.306445	5.0	637015.0	1.929301	Y
7	IC 410-283892/7	5.5009	10.498888	5.0	656951.0	1.908576	Y
8	IC 410-283892/8	11.0018	21.452559	5.0	638673.0	1.949914	Y
9	IC 410-283892/9	22.0036	41.962769	5.0	603912.0	1.907087	Y
10	IC 410-283892/10	55.009	107.99944	5.0	589465.0	1.963305	Y



Calibration

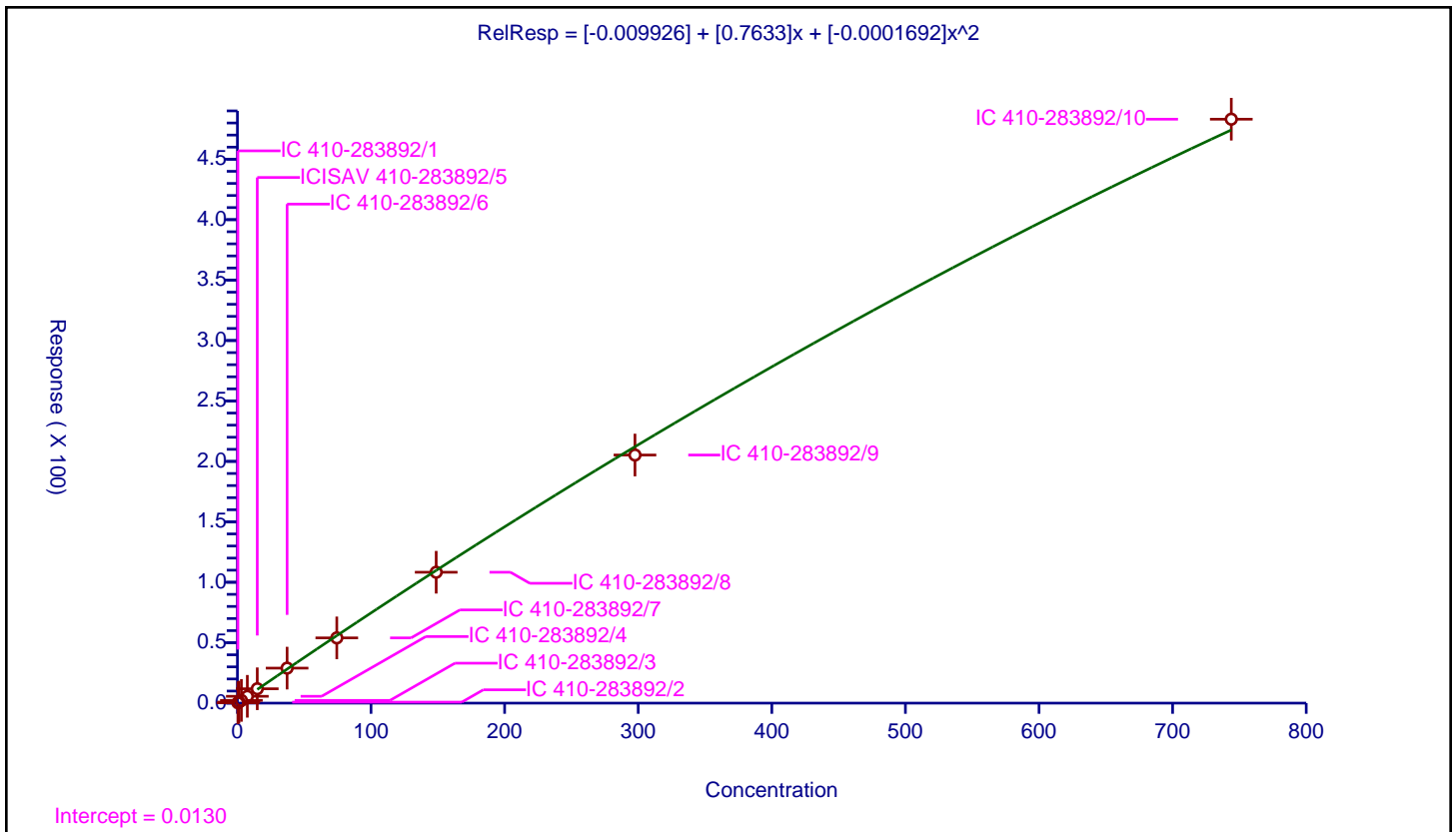
/ BFS_AB3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.009926
Slope:	0.7633
Second Order:	-0.0001692

Error Coefficients	
Standard Error:	24300000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.371964	0.275694	5.0	654204.0	0.741184	Y
2	IC 410-283892/2	1.115893	0.824042	5.0	691937.0	0.73846	Y
3	IC 410-283892/3	2.975714	2.251213	5.0	682883.0	0.756529	Y
4	IC 410-283892/4	7.439285	5.65896	5.0	675382.0	0.760686	Y
5	ICISAV 410-283892/5	14.87857	11.885056	5.0	663036.0	0.798804	Y
6	IC 410-283892/6	37.196425	28.960974	5.0	637015.0	0.778596	Y
7	IC 410-283892/7	74.39285	53.979741	5.0	656951.0	0.725604	Y
8	IC 410-283892/8	148.7857	108.296092	5.0	638673.0	0.727866	Y
9	IC 410-283892/9	297.5714	205.276042	5.0	603912.0	0.689838	Y
10	IC 410-283892/10	743.9285	483.121398	5.0	589465.0	0.649419	Y



Calibration

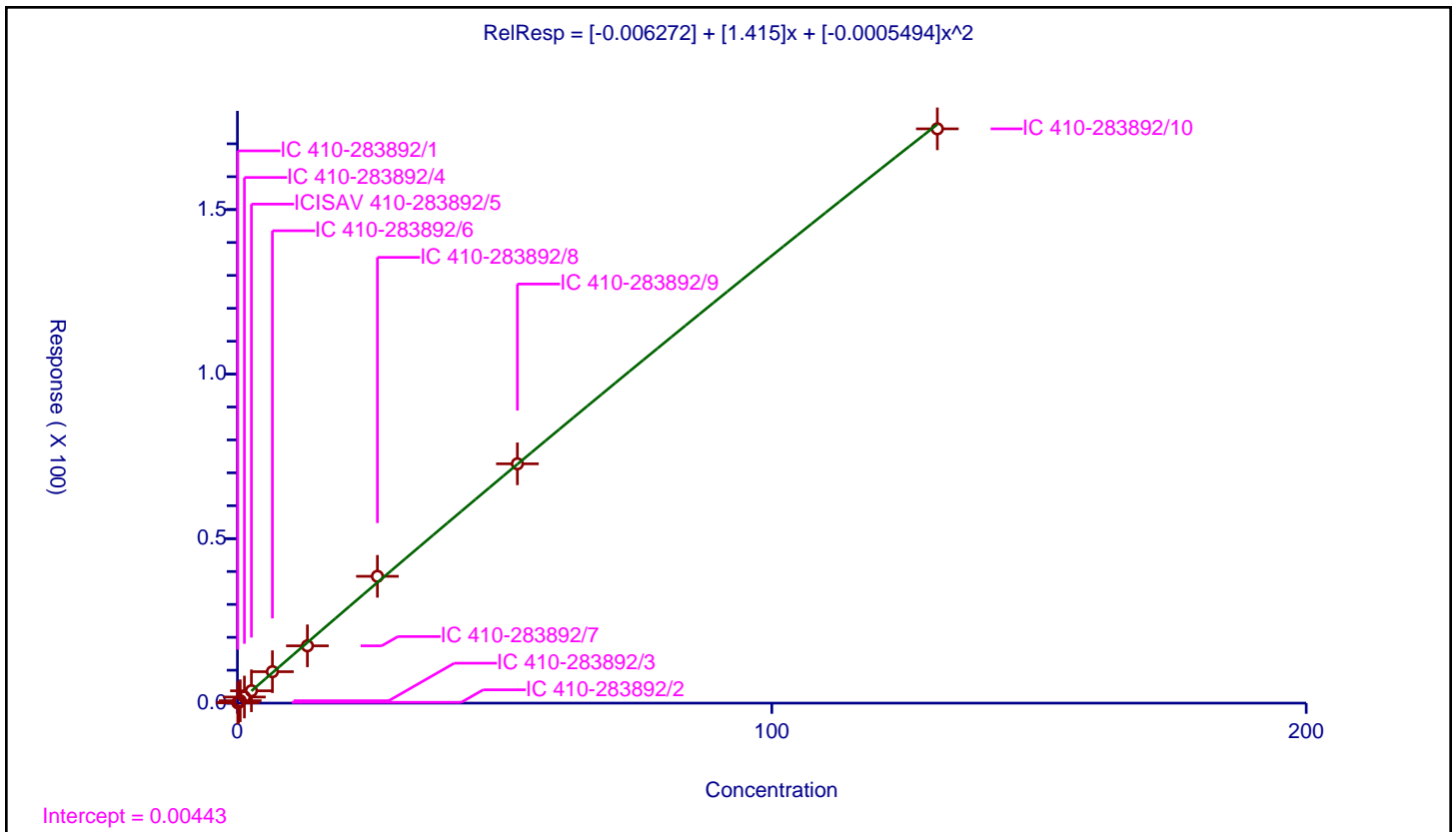
/ BFS_A3B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006272
Slope:	1.415
Second Order:	-0.0005494

Error Coefficients	
Standard Error:	8720000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.065487	0.088268	5.0	654204.0	1.347869	Y
2	IC 410-283892/2	0.19646	0.254387	5.0	691937.0	1.294854	Y
3	IC 410-283892/3	0.523894	0.731633	5.0	682883.0	1.396529	Y
4	IC 410-283892/4	1.309735	1.860473	5.0	675382.0	1.420496	Y
5	ICISAV 410-283892/5	2.61947	3.749253	5.0	663036.0	1.431302	Y
6	IC 410-283892/6	6.548675	9.552734	5.0	637015.0	1.458728	Y
7	IC 410-283892/7	13.09735	17.412303	5.0	656951.0	1.329452	Y
8	IC 410-283892/8	26.1947	38.546729	5.0	638673.0	1.471547	Y
9	IC 410-283892/9	52.3894	72.737568	5.0	603912.0	1.388402	Y
10	IC 410-283892/10	130.9735	174.544833	5.0	589465.0	1.332673	Y



Calibration

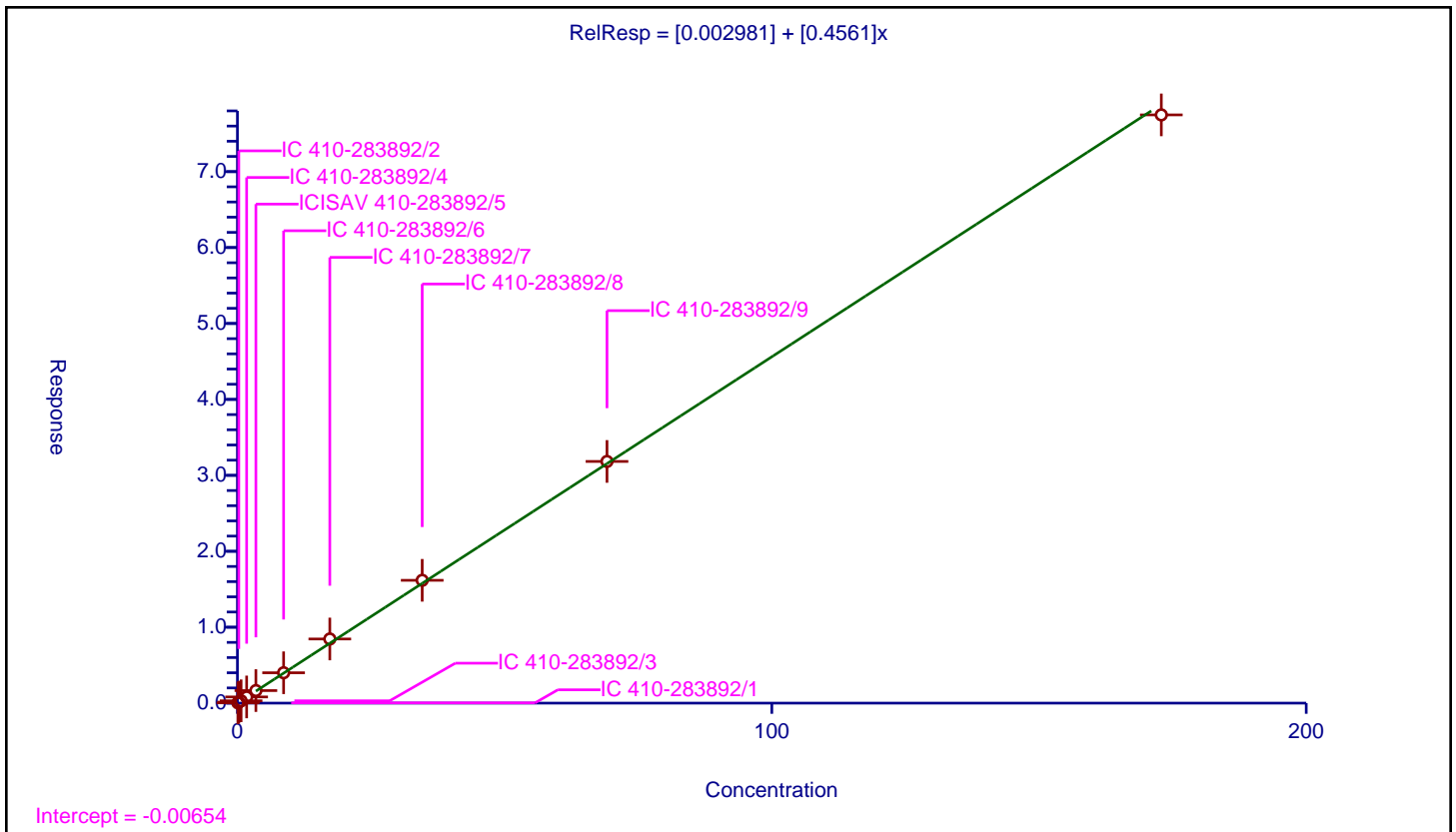
/ BFS_B4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.002981
Slope:	0.4561

Error Coefficients	
Standard Error:	3610000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.086443	0.035249	5.0	654204.0	0.407773	Y
2	IC 410-283892/2	0.259328	0.1265	5.0	691937.0	0.4878	Y
3	IC 410-283892/3	0.69154	0.305719	5.0	682883.0	0.442084	Y
4	IC 410-283892/4	1.72885	0.814406	5.0	675382.0	0.471068	Y
5	ICISAV 410-283892/5	3.4577	1.653726	5.0	663036.0	0.478273	Y
6	IC 410-283892/6	8.64425	3.999513	5.0	637015.0	0.462679	Y
7	IC 410-283892/7	17.2885	8.449382	5.0	656951.0	0.488728	Y
8	IC 410-283892/8	34.577	16.176236	5.0	638673.0	0.467832	Y
9	IC 410-283892/9	69.154	31.830085	5.0	603912.0	0.460278	Y
10	IC 410-283892/10	172.885	77.472997	5.0	589465.0	0.448119	Y



Calibration

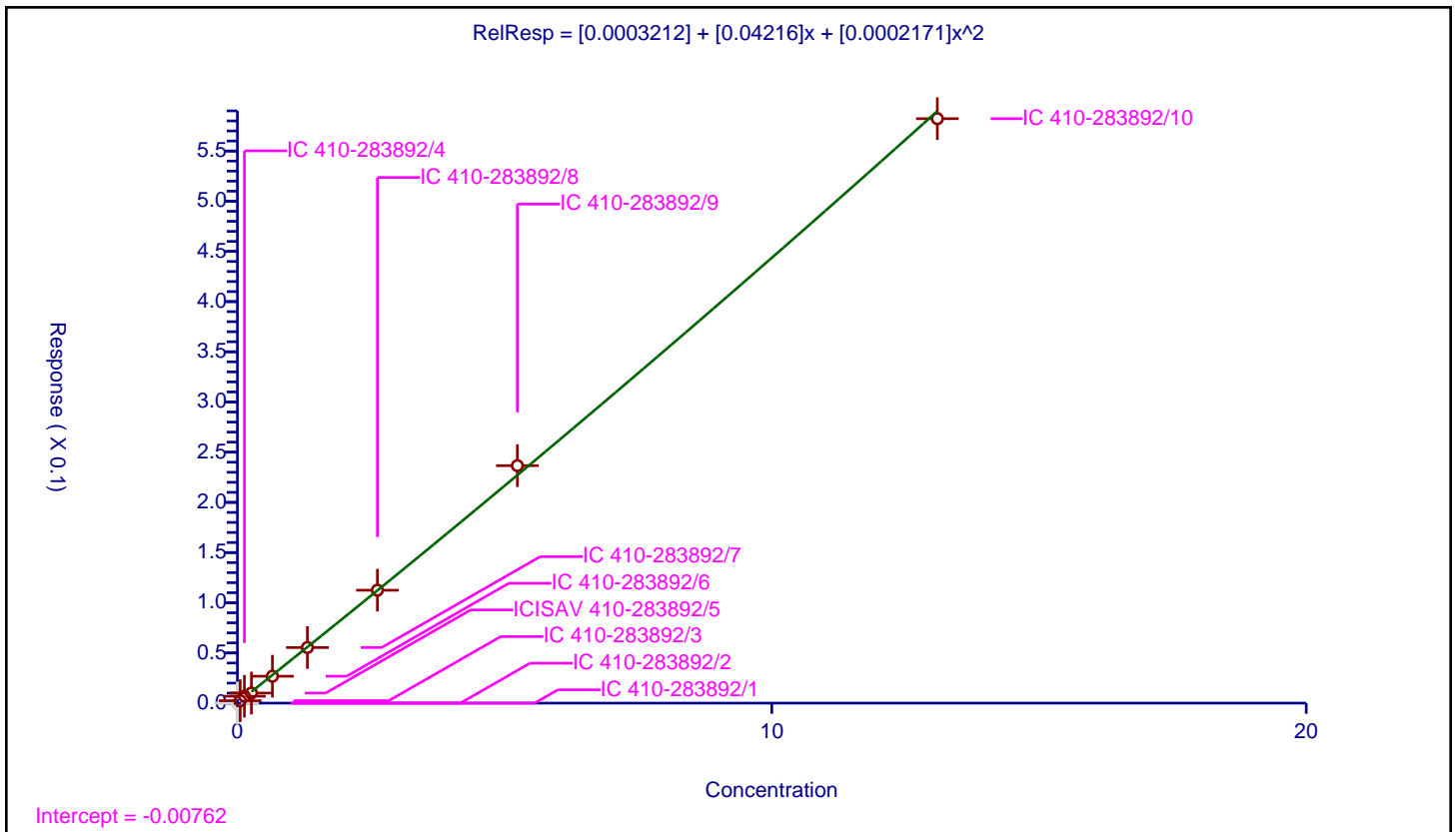
/ BFS_A2B3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0003212
Slope:	0.04216
Second Order:	0.0002171

Error Coefficients	
Standard Error:	34100
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.0	0.0	5.0	654204.0	NaN	N
2	IC 410-283892/2	0.0	0.0	5.0	691937.0	NaN	N
3	IC 410-283892/3	0.05239	0.002424	5.0	682883.0	0.04626	Y
4	IC 410-283892/4	0.130975	0.006892	5.0	675382.0	0.052624	Y
5	ICISAV 410-283892/5	0.26195	0.010067	5.0	663036.0	0.038432	Y
6	IC 410-283892/6	0.654875	0.02682	5.0	637015.0	0.040955	Y
7	IC 410-283892/7	1.30975	0.055392	5.0	656951.0	0.042292	Y
8	IC 410-283892/8	2.6195	0.112499	5.0	638673.0	0.042947	Y
9	IC 410-283892/9	5.239	0.236574	5.0	603912.0	0.045156	Y
10	IC 410-283892/10	13.0975	0.582214	5.0	589465.0	0.044452	Y



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285706/1	22AUG13BFS-01.d
Level 2	IC 410-285706/2	22AUG13BFS-02.d
Level 3	IC 410-285706/3	22AUG13BFS-03.d
Level 4	IC 410-285706/4	22AUG13BFS-04.d
Level 5	ICISAV 410-285706/5	22AUG13BFS-05.d
Level 6	IC 410-285706/6	22AUG13BFS-06.d
Level 7	IC 410-285706/7	22AUG13BFS-07.d
Level 8	IC 410-285706/8	22AUG13BFS-08.d
Level 9	IC 410-285706/9	22AUG13BFS-09.d
Level 10	IC 410-285706/10	22AUG13BFS-10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
BFS_AB2	1.6556 1.7158	1.6677 1.8230	1.6156 1.7061	1.6427 1.7937	1.6393 1.7020	L1ID	-0.01 0	1.729 5						0.9990		0.9900	
BFS_A3B	1.6321 2.0096	1.7293 1.9853	1.8031 1.9563	1.8593 2.0766	1.9137 1.8730	L1ID	-0.01 8	1.939 0						0.9980		0.9900	
BFS_B3	0.9917 1.1360	1.0800 1.1481	1.0745 1.1084	1.0612 1.1565	1.0851 1.0216	L1ID	0.013 9	1.072 7						0.9970		0.9900	
BFS_A2B2	0.6748 0.7939	0.6980 0.8394	0.7380 0.7496	0.7599 0.7249	0.7709 0.6577	Q2ID	-0.04 3	0.781 7	-0.000174					0.9980		0.9900	
BFS_A4B	2.2578 2.5045	2.2120 2.6346	2.1760 2.4873	2.4049 2.4055	2.4993 2.3288	L1ID	0.000 6	2.387 5						0.9990		0.9900	
BFS_AB3	1.0123 1.0809	1.0183 1.0581	1.0757 1.0180	1.0687 0.8732	1.1419 0.8740	Q2ID	-0.02 7	1.077 2	-0.000329					0.9980		0.9900	
BFS_A3B2	1.9585 2.1064	1.9723 2.0473	1.9594 2.0269	2.0869 1.8348	2.1136 1.8493	Q2ID	-0.00 8	2.059 2	-0.001911					0.9990		0.9900	
BFS_B4	0.7033 0.6981	0.6373 0.6780	0.6381 0.6665	0.6643 0.6417	0.7157 0.6292	Q2ID	0.001 1	0.673 6	-0.000269					0.9980		0.9900	
BFS_A2B3	++++ 0.0730	++++ 0.0714	0.0603 0.0681	0.0652 0.0628	0.0697 0.0678	L1ID	0.000 1	0.067 0						0.9980		0.9900	
13C3 HFPO-DA	0.1999 0.1967	0.1989 0.1991	0.2088 0.1953	0.2021 0.2071	0.2021 0.1961	Ave		0.200 6			2.3						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285706/1	22AUG13BFS-01.d
Level 2	IC 410-285706/2	22AUG13BFS-02.d
Level 3	IC 410-285706/3	22AUG13BFS-03.d
Level 4	IC 410-285706/4	22AUG13BFS-04.d
Level 5	ICISAV 410-285706/5	22AUG13BFS-05.d
Level 6	IC 410-285706/6	22AUG13BFS-06.d
Level 7	IC 410-285706/7	22AUG13BFS-07.d
Level 8	IC 410-285706/8	22AUG13BFS-08.d
Level 9	IC 410-285706/9	22AUG13BFS-09.d
Level 10	IC 410-285706/10	22AUG13BFS-10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		L1ID	9195	27359	71092	185976	358039	0.0445	0.134	0.356	0.891	1.78
			928818	1966651	3673322	7962452	17604602	4.45	8.91	17.8	35.6	89.1
BFS_A3B		L1ID	10131	31708	88676	235259	467147	0.0498	0.149	0.398	0.995	1.99
			1215843	2393692	4707461	10302824	21651619	4.98	9.95	19.9	39.8	99.5
BFS_B3		L1ID	19601	63052	168263	427569	843412	0.158	0.475	1.27	3.17	6.34
			2188545	4407906	8493131	18271211	37604912	15.8	31.7	63.4	127	317
BFS_A2B2		Q2ID	29208	89254	253099	670538	1312413	0.347	1.04	2.78	6.94	13.9
			3349872	7057685	12578256	25081980	53023174	34.7	69.4	139	278	694
BFS_A4B		L1ID	7745	22414	59139	168162	337168	0.0275	0.0825	0.220	0.550	1.10
			837391	1755466	3307688	6595417	14877264	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID	46960	139544	395397	1010634	2083219	0.372	1.12	2.98	7.44	14.9
			4887607	9534882	18308007	32379885	75507247	37.2	74.4	149	298	744
BFS_A3B2		Q2ID	15996	47583	126791	347438	678875	0.0655	0.196	0.524	1.31	2.62
			1676878	3247924	6417526	11977716	28128569	6.55	13.1	26.2	52.4	131
BFS_B4		Q2ID	7582	20295	54508	145983	303456	0.0864	0.259	0.692	1.73	3.46
			733541	1419837	2785380	5529764	12632285	8.64	17.3	34.6	69.2	173
BFS_A2B3		L1ID	+++++	+++++	390	1085	2238	+++++	+++++	0.0524	0.131	0.262
			5813	11331	21575	40996	103106	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	623591	614007	617591	635578	613094	5.00	5.00	5.00	5.00	5.00
			607823	605647	604361	623048	580678	5.00	5.00	5.00	5.00	5.00

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Curve Type Legend

Ave = Average ISTD L1ID = Linear 1/conc IsoDil Q2ID = Quadratic 1/conc ² IsoDil
--

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285706/1	22AUG13BFS-01.d
Level 2	IC 410-285706/2	22AUG13BFS-02.d
Level 3	IC 410-285706/3	22AUG13BFS-03.d
Level 4	IC 410-285706/4	22AUG13BFS-04.d
Level 5	ICISAV 410-285706/5	22AUG13BFS-05.d
Level 6	IC 410-285706/6	22AUG13BFS-06.d
Level 7	IC 410-285706/7	22AUG13BFS-07.d
Level 8	IC 410-285706/8	22AUG13BFS-08.d
Level 9	IC 410-285706/9	22AUG13BFS-09.d
Level 10	IC 410-285706/10	22AUG13BFS-10.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
BFS_AB2	8.1	0.6	-5.0	-4.4	-4.9	-0.7	50	30	30	30	30	30
	5.5	-1.3	3.7	-1.6			30	30	30	30		
BFS_A3B	2.5	-4.7	-4.7	-3.2	-0.8	3.8	50	30	30	30	30	30
	2.5	0.9	7.1	-3.4			30	30	30	30		
BFS_B3	-15.7	-2.1	-0.9	-1.5	0.9	5.8	50	30	30	30	30	30
	7.0	3.3	7.8	-4.8			30	30	30	30		
BFS_A2B2	2.3	-5.4	-3.5	-1.8	-0.7	2.5	50	30	30	30	30	30
	9.3	-1.0	-1.2	-0.5			30	30	30	30		
BFS_A4B	-6.4	-7.7	-9.0	0.7	4.7	4.9	50	30	30	30	30	30
	10.3	4.2	0.7	-2.5			30	30	30	30		
BFS_AB3	0.8	-3.2	0.8	-0.2	6.7	1.6	50	30	30	30	30	30
	0.6	-1.0	-11.9	7.3			30	30	30	30		
BFS_A3B2	1.1	-2.2	-4.1	1.8	3.0	3.0	50	30	30	30	30	30
	0.7	0.9	-6.7	2.6			30	30	30	30		
BFS_B4	2.5	-6.0	-5.5	-1.4	6.4	4.0	50	30	30	30	30	30
	1.4	0.3	-2.1	0.4			30	30	30	30		
BFS_A2B3	+++++	+++++	-11.8	-3.5	3.6	8.8			50	30	30	30
	6.5	1.6	-6.3	1.1			30	30	30	30		
13C3 HFPO-DA		-0.8	4.1	0.7	0.7	-1.9		30	30	30	30	30
	-0.7	-2.7	3.2	-2.3			30	30	30	30		

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-Aug-2022 02:34:33 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:37 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:23:39

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.941	3.932	0.009	0.905	9195	0.0482	108	171	M
2 BFS_A3B									M
519.00 > 113.00	4.021	4.008	0.013	0.923	10131	0.0510	103	47.0	M
3 BFS_B3									M
553.00 > 345.00	4.163	4.161	0.002	0.956	19601	0.1335	84.3	61.4	M
4 BFS_A2B2									
569.00 > 229.00	4.280	4.267	0.013	0.983	29208	0.3550	102	140	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.355	4.348	0.007	0.877	623591	4.98	99.6	714	
5 BFS_A4B									
585.00 > 113.00	4.355	4.354	0.001	1.000	7745	0.0257	93.6	89.4	
7 BFS_AB3									
619.00 > 229.00	4.534	4.525	0.009	1.041	46960	0.3749	101	304	
8 BFS_A3B2									M
635.00 > 113.00	4.637	4.627	0.010	1.065	15996	0.0662	101	272	M
9 BFS_B4									
669.00 > 461.00	4.771	4.762	0.009	1.096	7582	0.0886	103	75.5	
* 11 13C2 PFOA									
415.00 > 370.00	4.967	4.958	0.009		3119552	5.00		829	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d

Injection Date: 14-Aug-2022 02:34:33

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

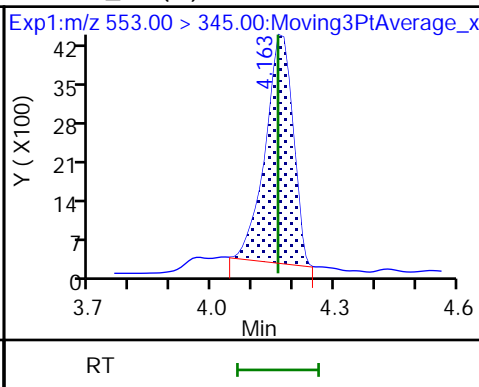
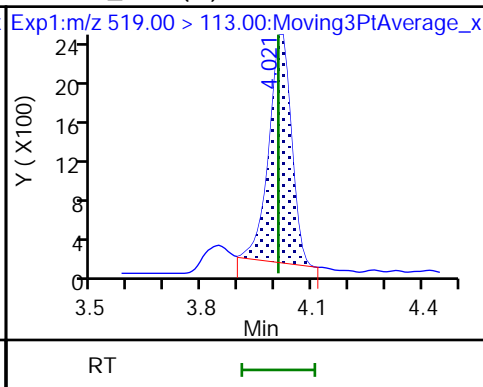
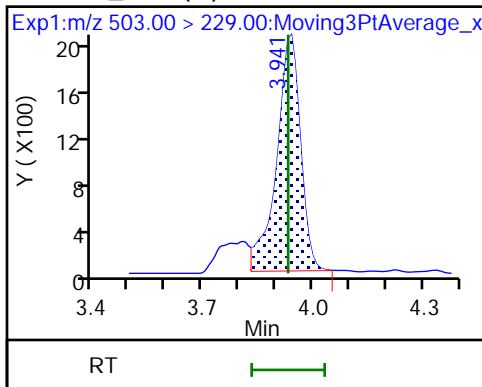
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

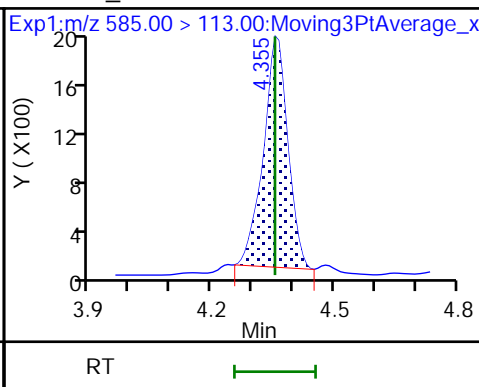
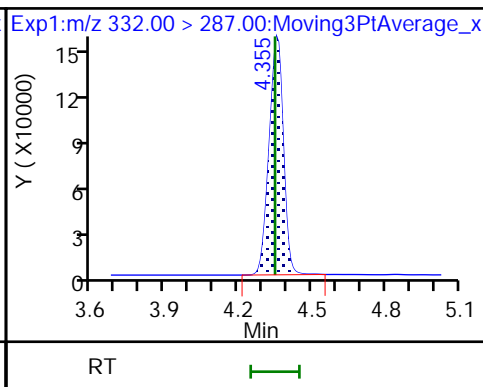
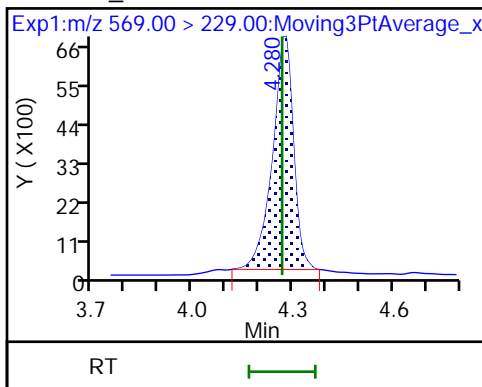
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

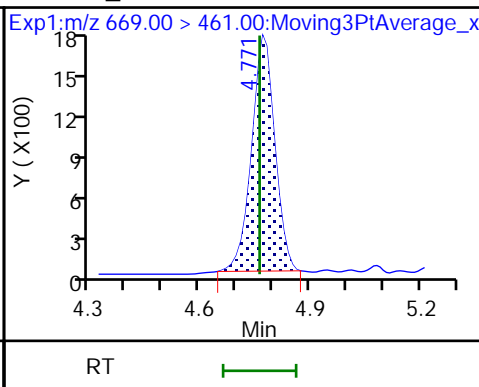
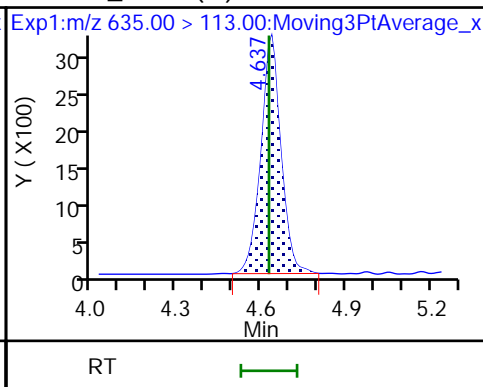
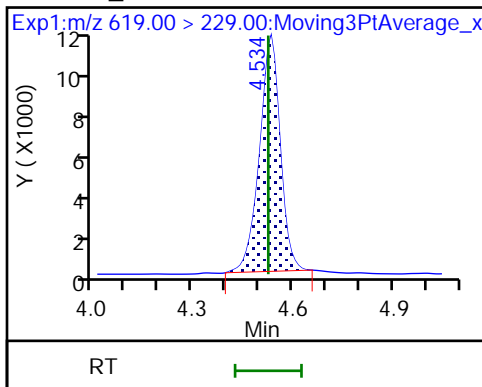
5 BFS_A4B



7 BFS_AB3

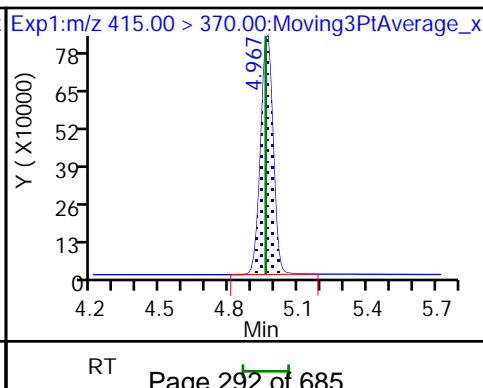
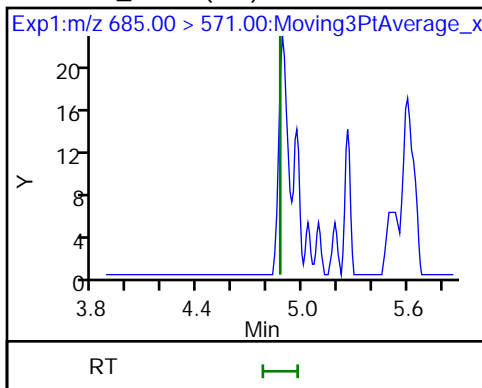
8 BFS_A3B2 (M)

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

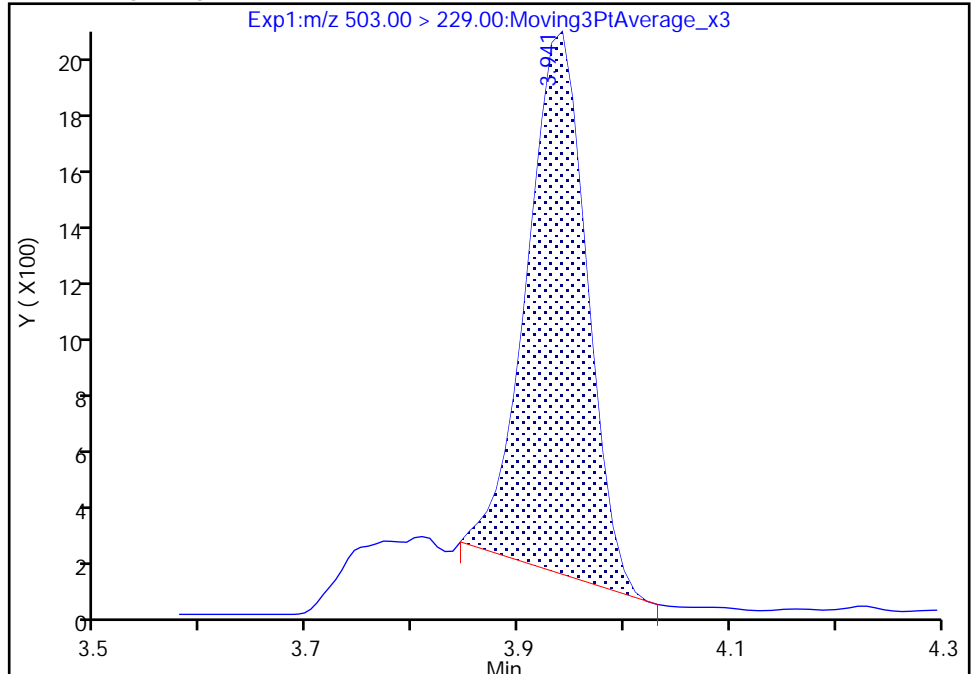
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d
Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

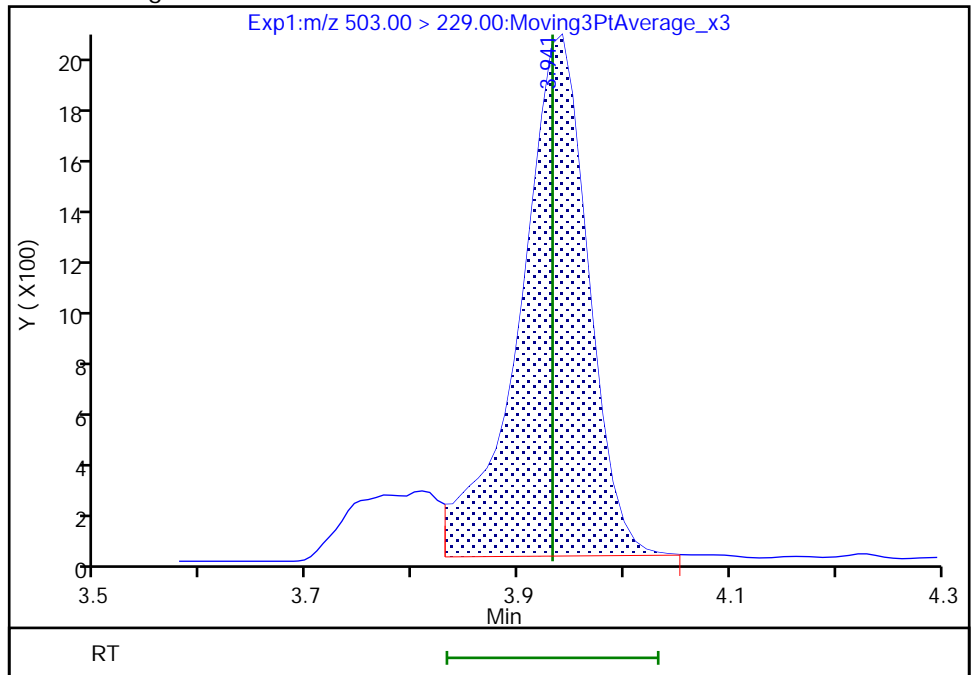
RT: 3.94
Area: 7594
Amount: 0.045580
Amount Units: ng/ml

Processing Integration Results



RT: 3.94
Area: 9195
Amount: 0.048160
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:23:56
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

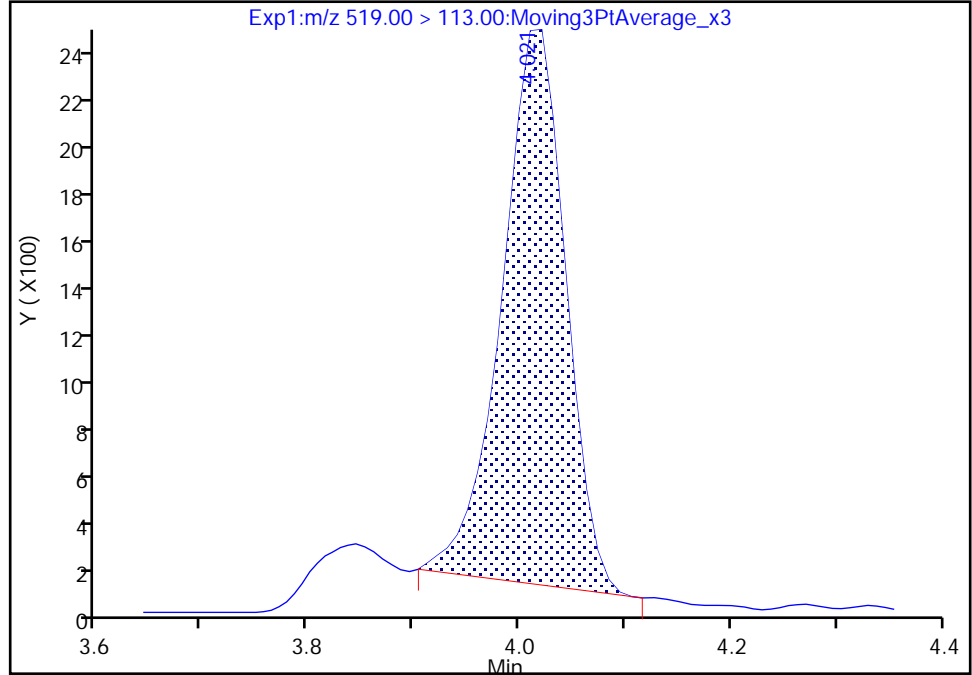
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Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

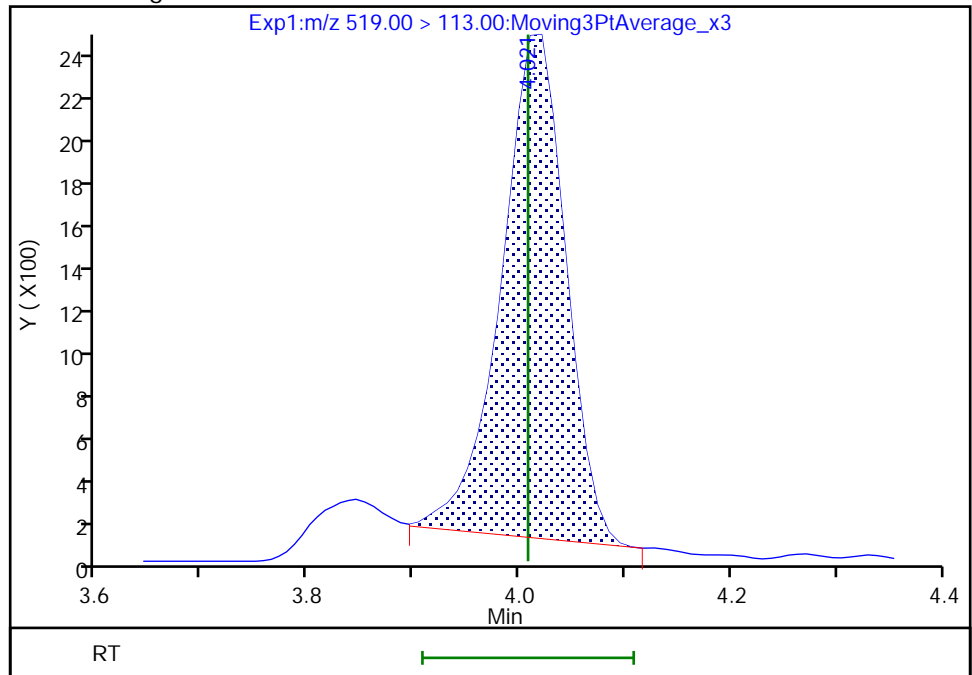
RT: 4.02
Area: 9984
Amount: 0.050809
Amount Units: ng/ml

Processing Integration Results



RT: 4.02
Area: 10131
Amount: 0.051021
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:24:24
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

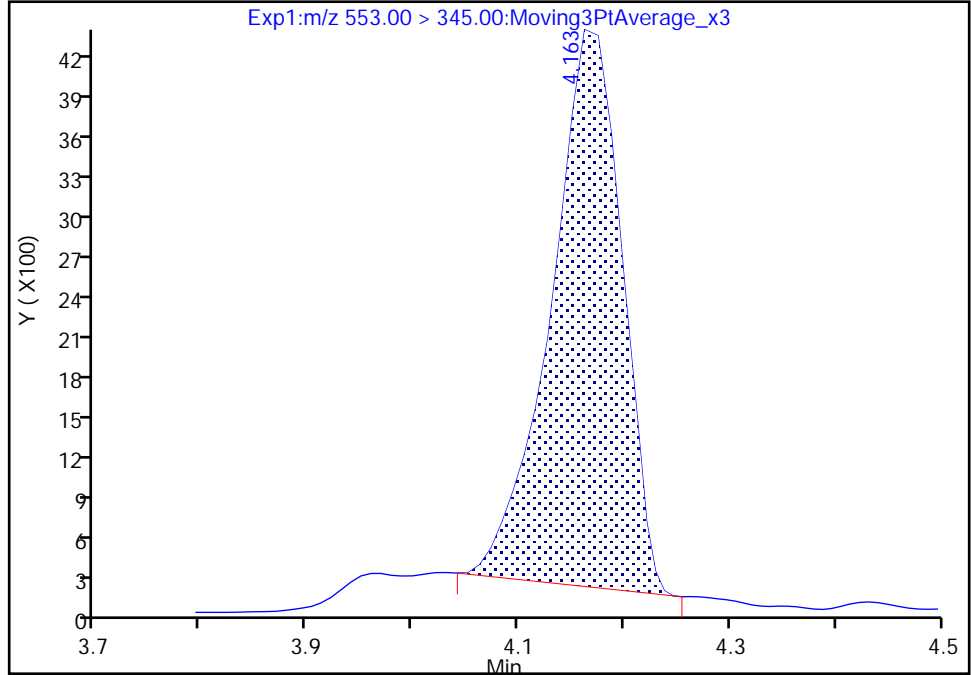
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Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

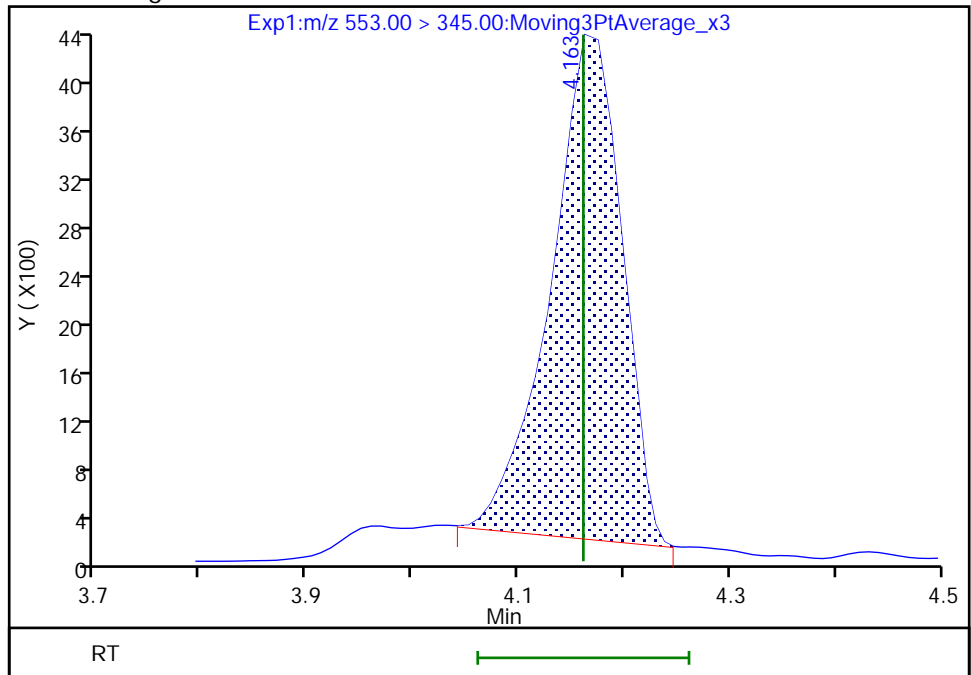
RT: 4.16
Area: 19472
Amount: 0.133204
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 19601
Amount: 0.133539
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:24:19
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

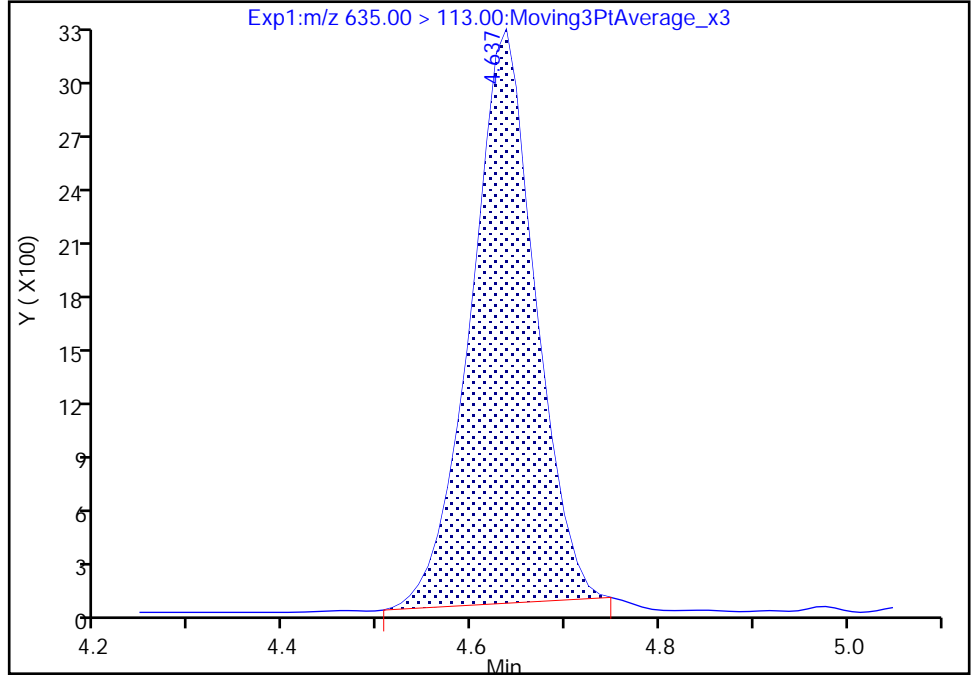
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Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

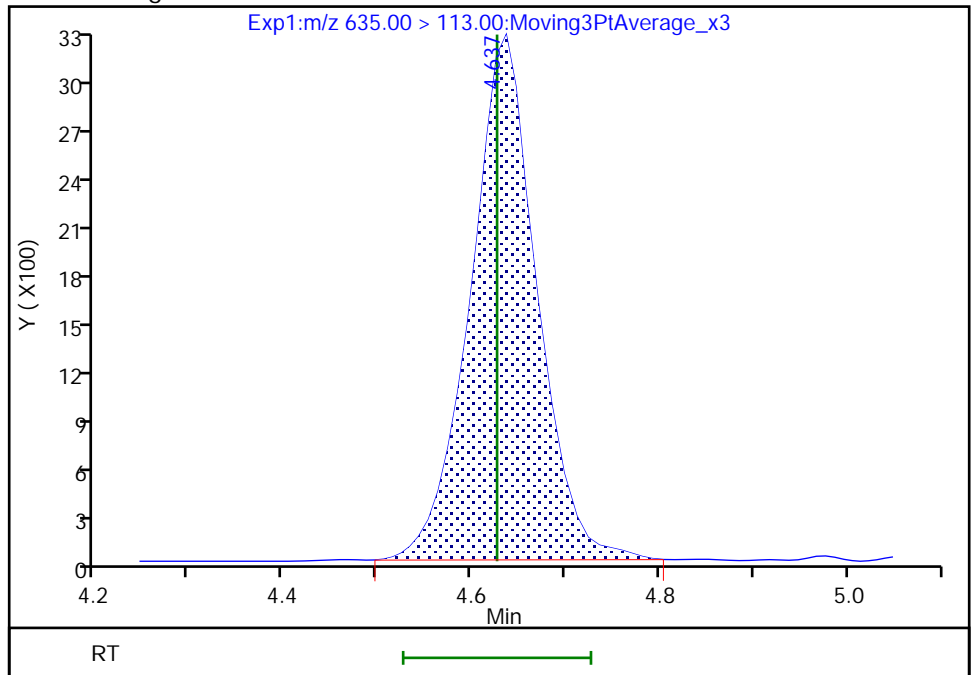
RT: 4.64
Area: 15300
Amount: 0.042666
Amount Units: ng/ml

Processing Integration Results



RT: 4.64
Area: 15996
Amount: 0.066178
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:23:35
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 296 of 685

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-Aug-2022 02:48:46 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:37 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:23:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.924	3.932	-0.008	0.904	27359	0.1343	101	397
2 BFS_A3B	519.00 > 113.00	4.002	4.008	-0.006	0.922	31708	0.1423	95.3	35.7
3 BFS_B3	553.00 > 345.00	4.154	4.161	-0.007	0.957	63052	0.4657	97.9	52.6
4 BFS_A2B2	569.00 > 229.00	4.266	4.267	-0.001	0.983	89254	0.9854	94.6	87.1 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.340	4.348	-0.008	0.877	614007	4.96	99.2	705
5 BFS_A4B	585.00 > 113.00	4.349	4.353	-0.004	1.002	22414	0.0762	92.3	127
7 BFS_AB3	619.00 > 229.00	4.518	4.525	-0.007	1.041	139544	1.08	96.8	147
8 BFS_A3B2	635.00 > 113.00	4.619	4.627	-0.008	1.064	47583	0.1921	97.8	248
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.097	20295	0.2438	94.0	122
* 11 13C2 PFOA	415.00 > 370.00	4.949	4.958	-0.009		3086468	5.00		850

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-02.d

Injection Date: 14-Aug-2022 02:48:46

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

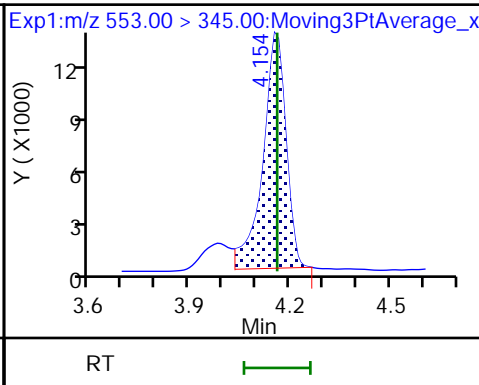
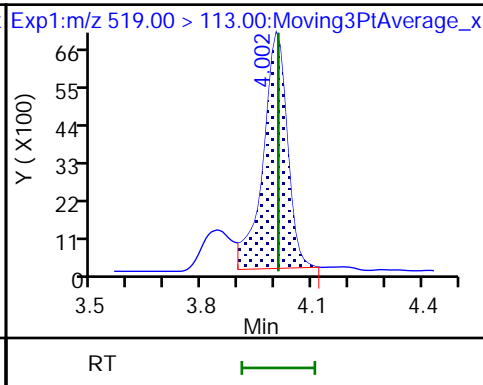
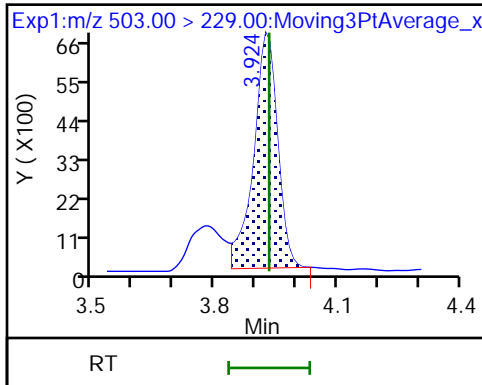
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

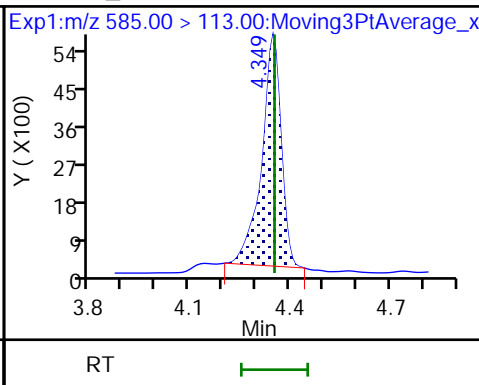
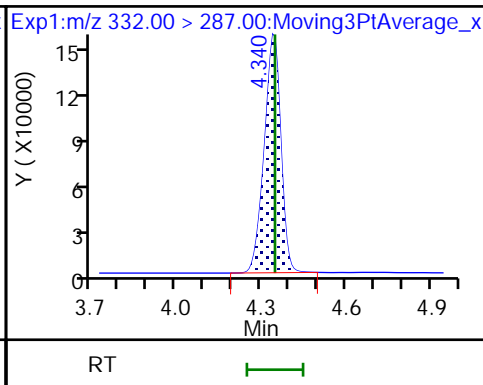
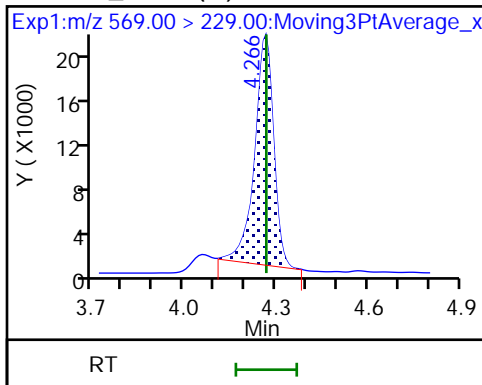
3 BFS_B3



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

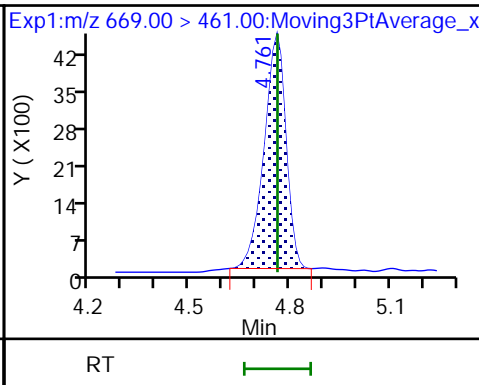
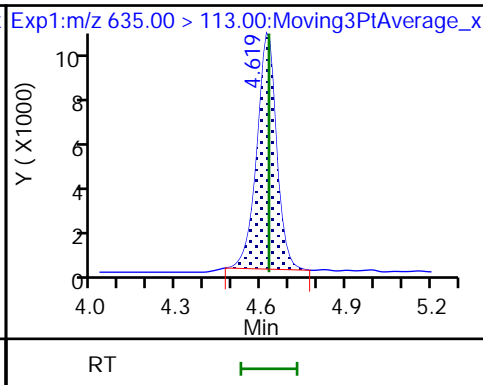
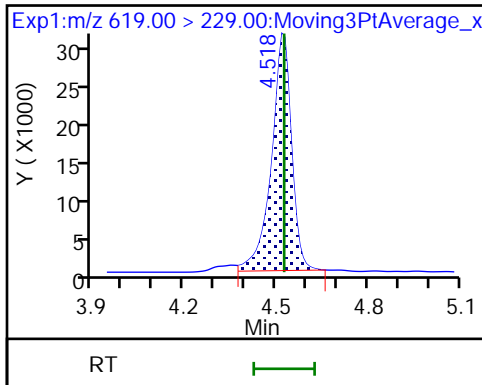
5 BFS_A4B



7 BFS_AB3

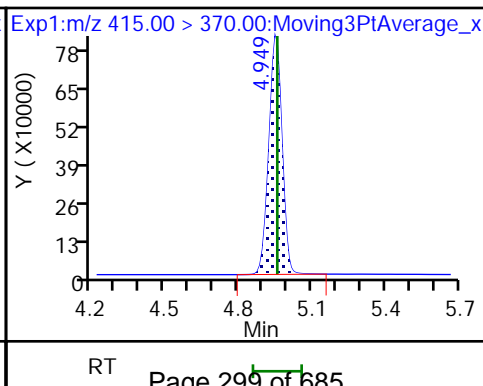
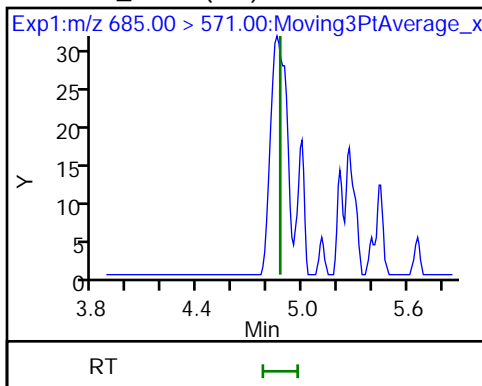
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

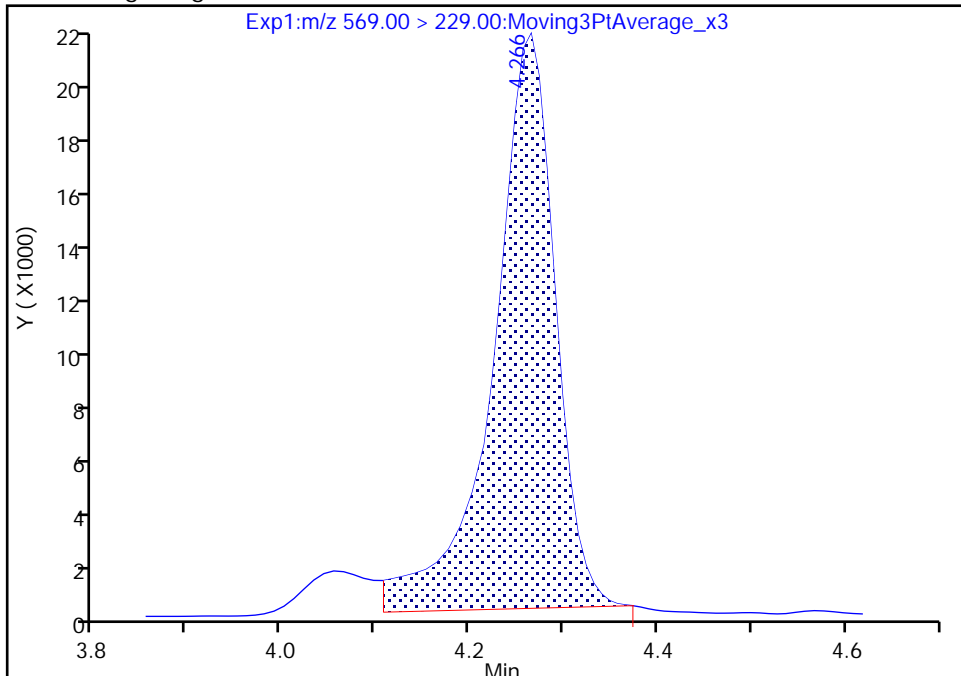
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-02.d
Injection Date: 14-Aug-2022 02:48:46 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

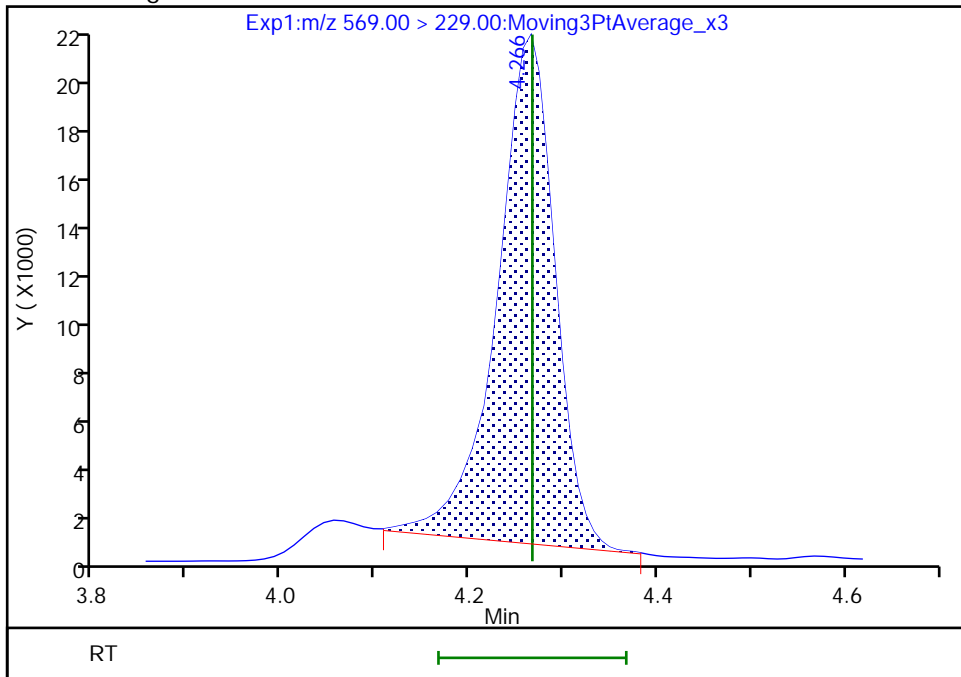
RT: 4.27
Area: 97515
Amount: 0.980656
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 89254
Amount: 0.985357
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:24:52
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-Aug-2022 03:01:20 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:38 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:25:27

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	71092	0.3383	95.0	649
2 BFS_A3B	519.00 > 113.00	4.002	4.008	-0.006	0.920	88676	0.3794	95.3	36.7
3 BFS_B3	553.00 > 345.00	4.165	4.161	0.004	0.958	168263	1.26	99.1	57.1
4 BFS_A2B2	569.00 > 229.00	4.265	4.267	-0.002	0.981	253099	2.68	96.5	75.3
D 6 13C3 HFPO-DA	332.00 > 287.00	4.348	4.348	0.0	0.877	617591	5.20	104	796
5 BFS_A4B	585.00 > 113.00	4.357	4.353	0.004	1.002	59139	0.2003	91.0	131 M
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	395397	3.00	101	213
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	126791	0.5026	95.9	317
9 BFS_B4	669.00 > 461.00	4.771	4.762	0.009	1.097	54508	0.6537	94.5	227
10 BFS_A2B3	685.00 > 571.00	4.864	4.870	-0.006	1.119	390	0.0462	88.2	14.0 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2957623	5.00		856

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d

Injection Date: 14-Aug-2022 03:01:20

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

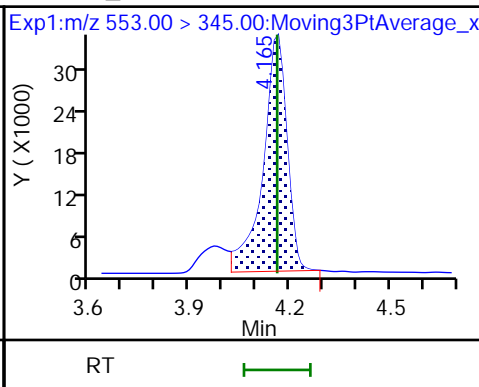
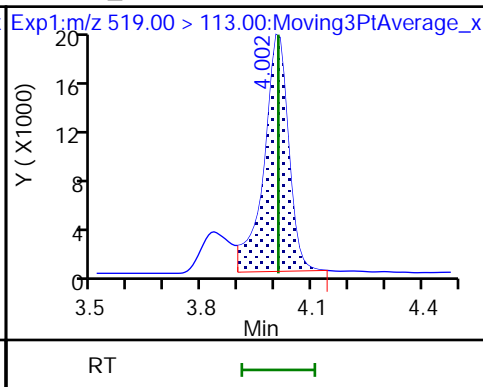
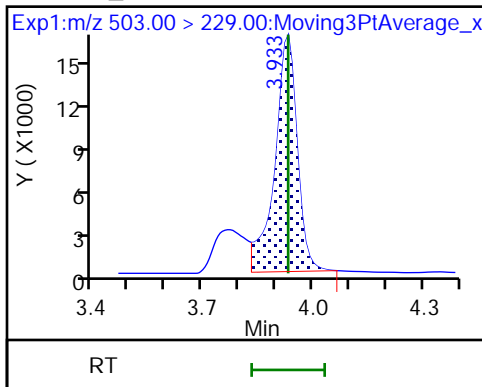
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

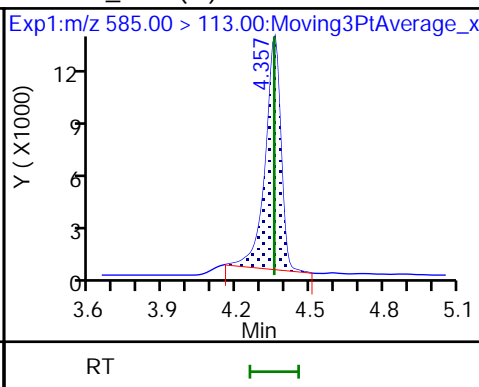
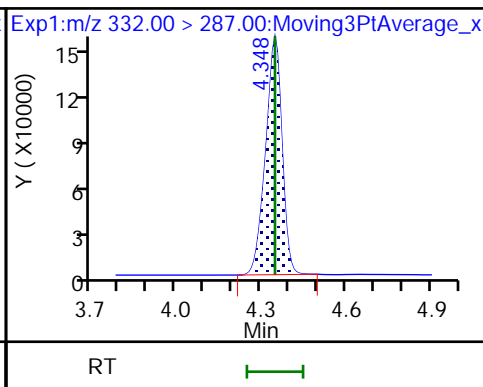
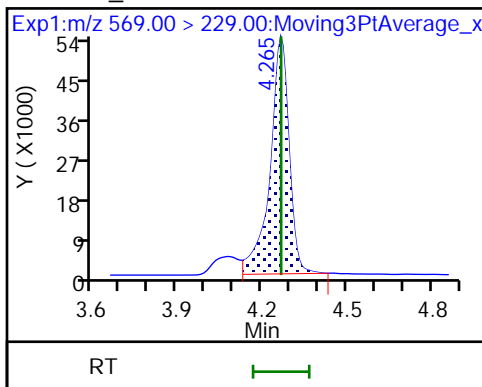
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

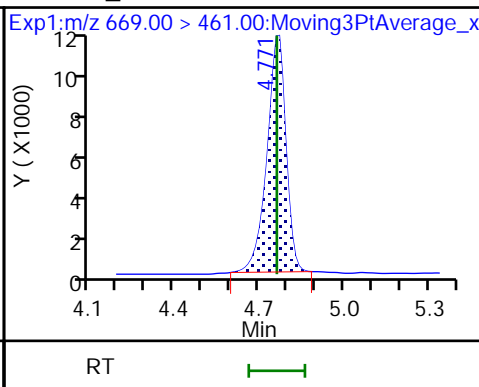
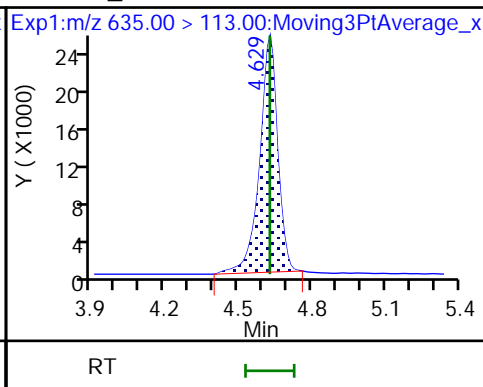
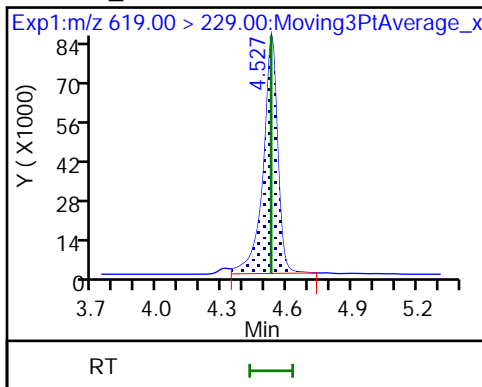
5 BFS_A4B (M)



7 BFS_AB3

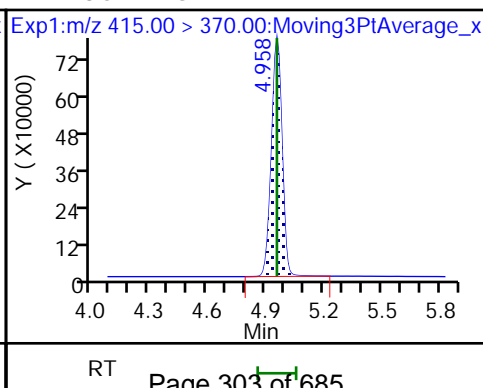
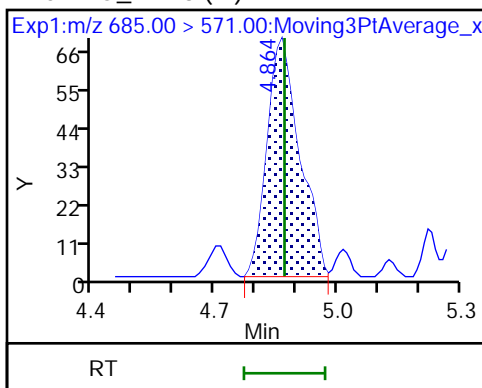
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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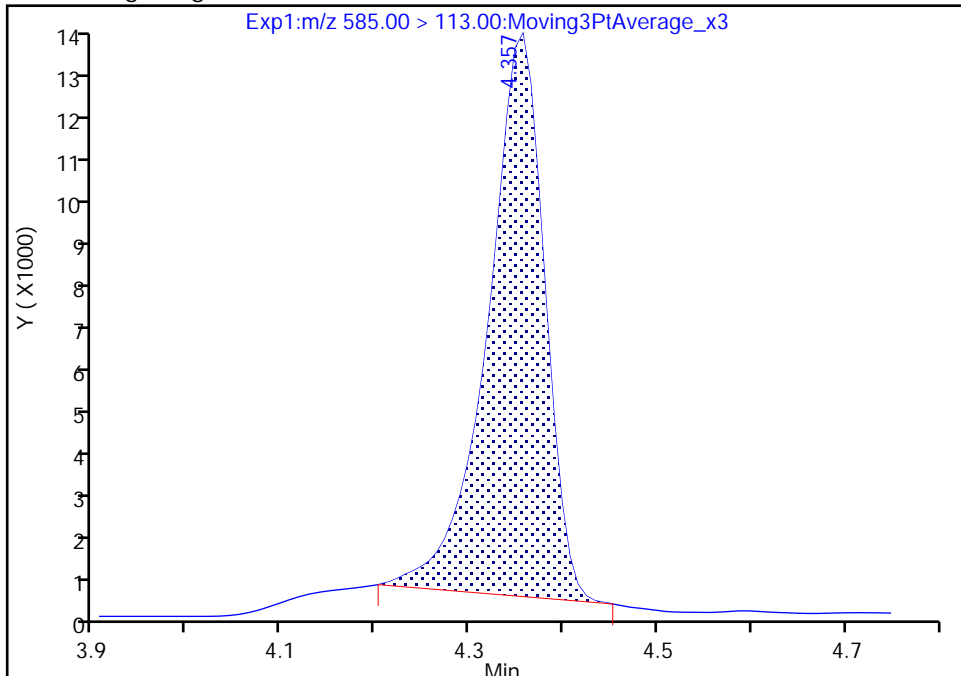
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d
Injection Date: 14-Aug-2022 03:01:20 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

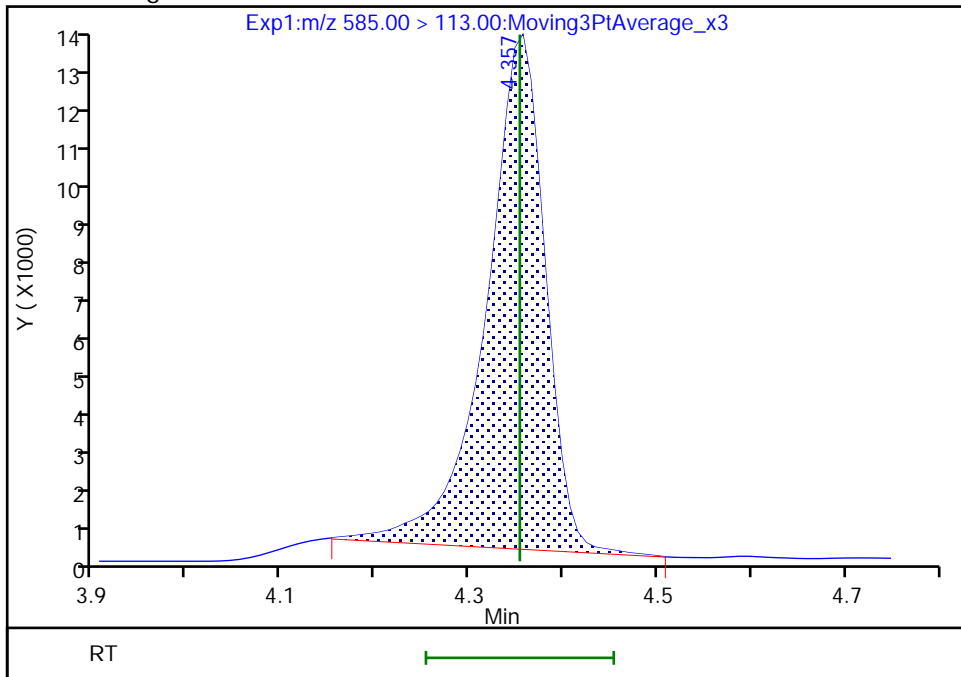
RT: 4.36
Area: 56012
Amount: 0.190525
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 59139
Amount: 0.200275
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:25:13
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

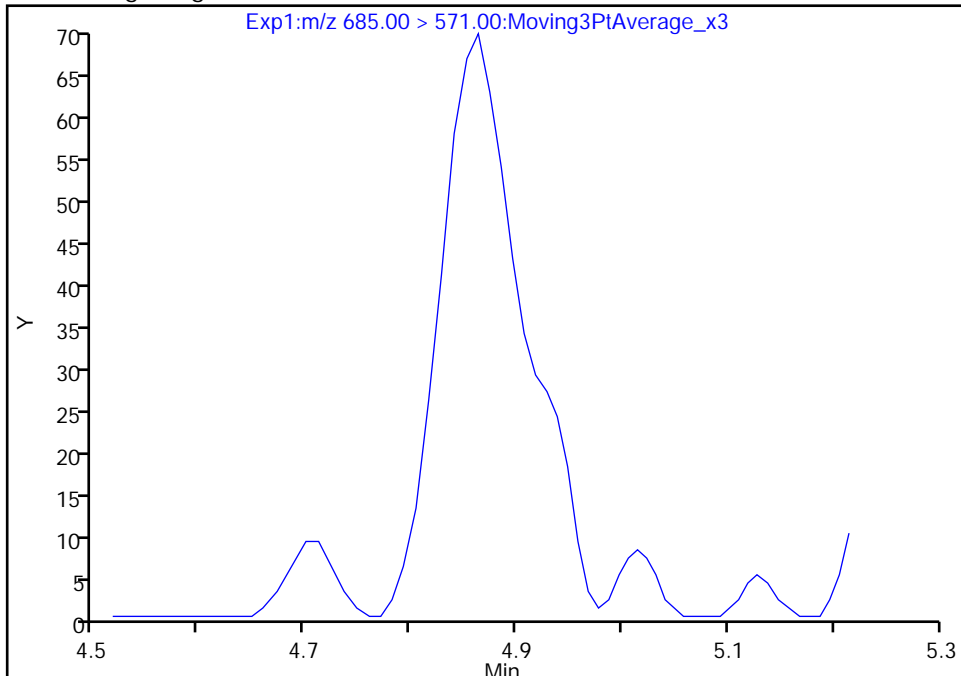
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d
Injection Date: 14-Aug-2022 03:01:20 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

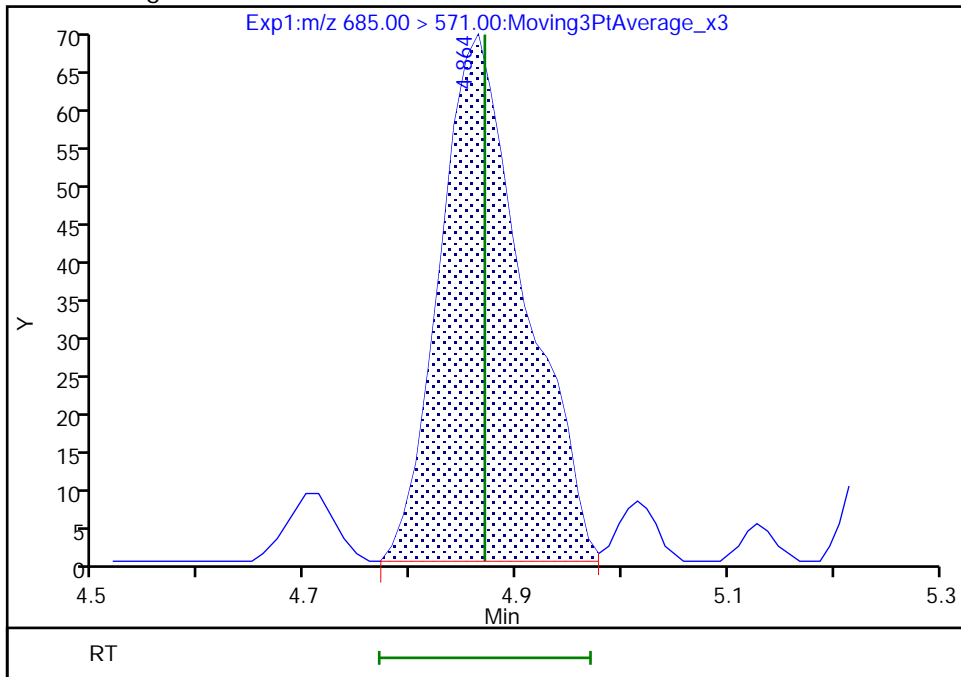
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 390
Amount: 0.046184
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:25:22
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-Aug-2022 03:13:58 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:39 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:25:43

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.926	3.932	-0.006	0.904	185976	0.8515	95.6	943
2 BFS_A3B	519.00 > 113.00	4.004	4.008	-0.004	0.922	235259	0.9636	96.8	38.6
3 BFS_B3	553.00 > 345.00	4.157	4.161	-0.004	0.957	427569	3.12	98.5	59.2
4 BFS_A2B2	569.00 > 229.00	4.260	4.267	-0.007	0.981	670538	6.81	98.2	97.2
D 6 13C3 HFPO-DA	332.00 > 287.00	4.344	4.348	-0.004	0.876	635578	5.04	101	801
5 BFS_A4B	585.00 > 113.00	4.352	4.353	-0.001	1.002	168162	0.5538	101	130
7 BFS_AB3	619.00 > 229.00	4.523	4.525	-0.002	1.041	1010634	7.42	99.8	448
8 BFS_A3B2	635.00 > 113.00	4.624	4.627	-0.003	1.065	347438	1.33	102	432
9 BFS_B4	669.00 > 461.00	4.758	4.762	-0.004	1.095	145983	1.70	98.6	343
10 BFS_A2B3	685.00 > 571.00	4.862	4.869	-0.007	1.119	1085	0.1264	96.5	47.0
									M
									M
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		3145206	5.00		906

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-04.d

Injection Date: 14-Aug-2022 03:13:58

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

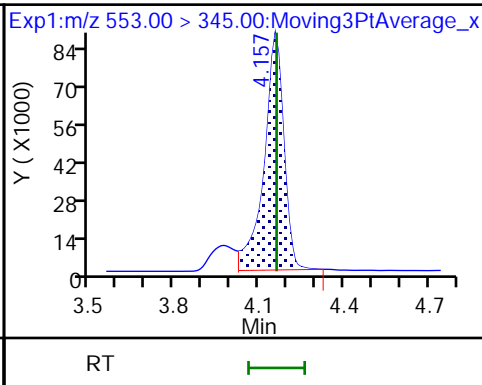
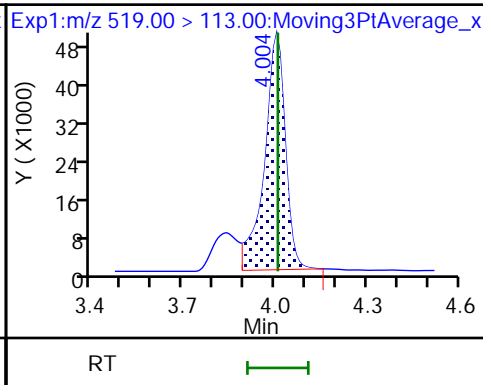
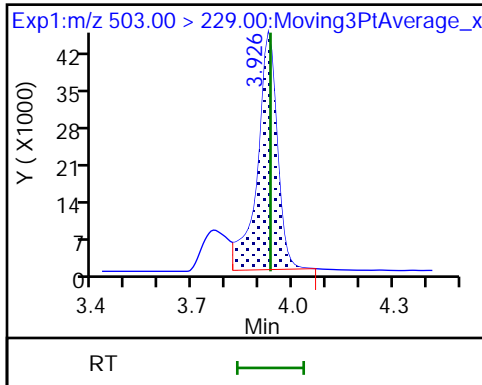
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

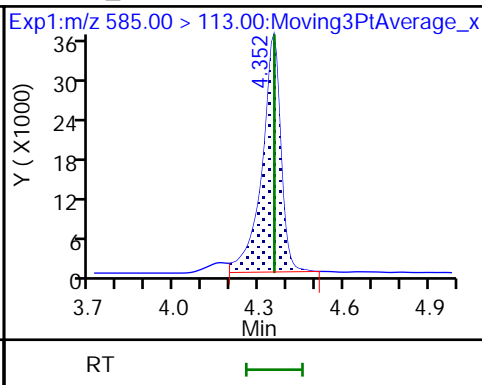
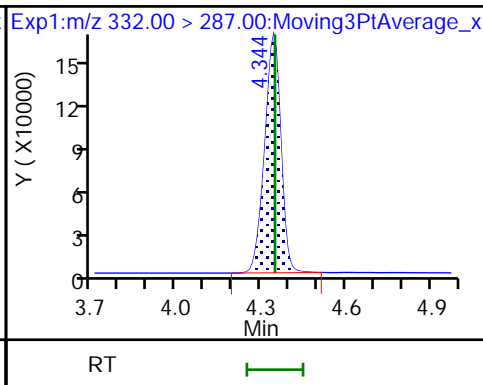
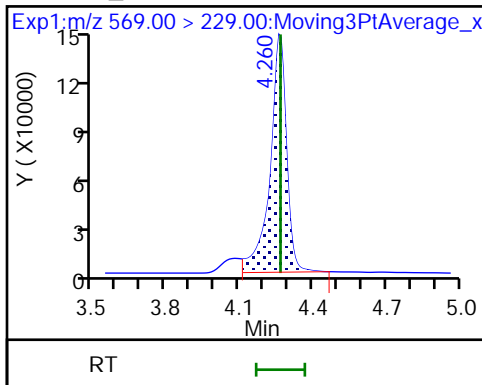
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

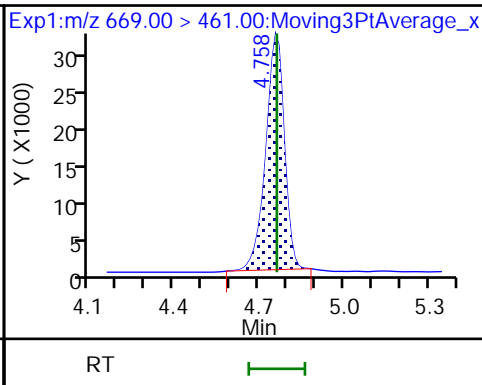
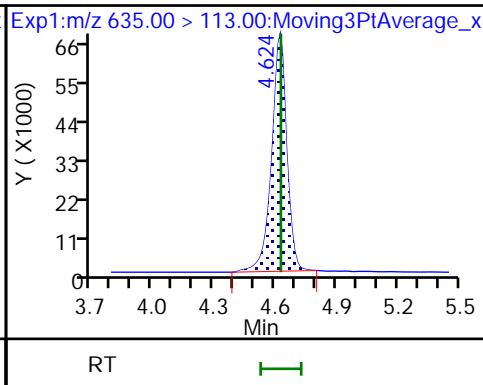
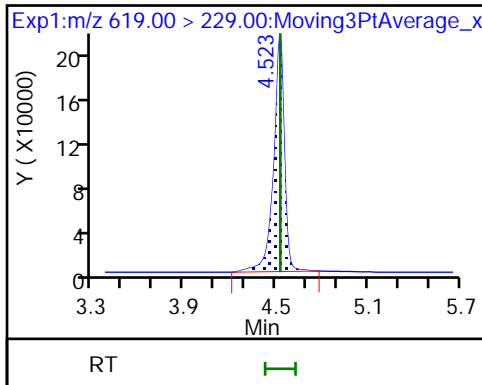
5 BFS_A4B



7 BFS_AB3

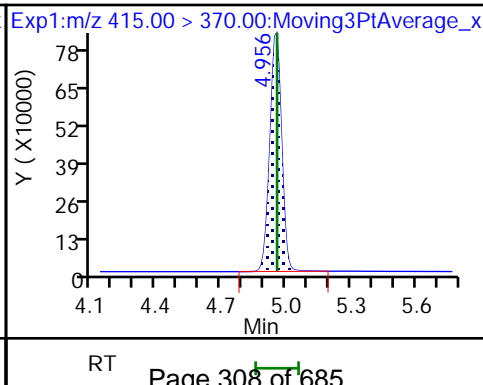
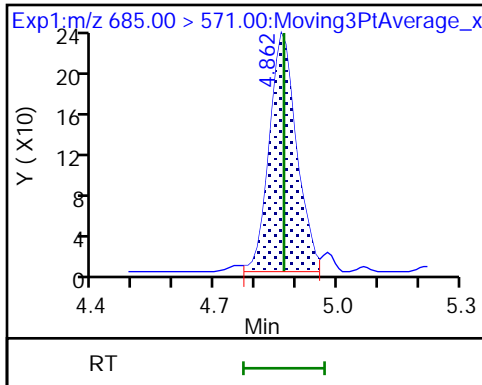
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

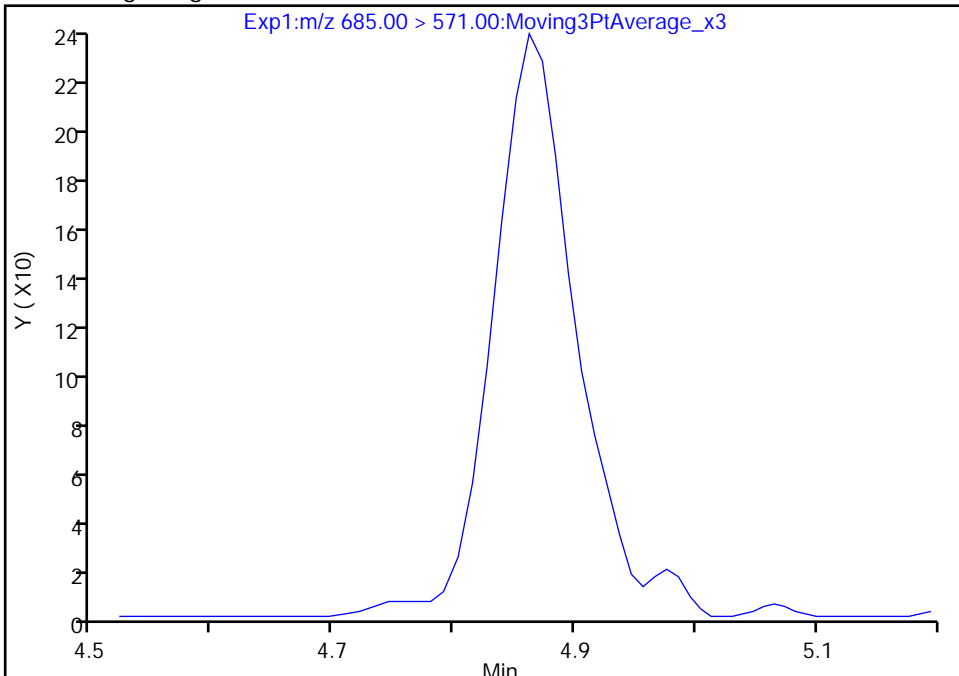
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-04.d
Injection Date: 14-Aug-2022 03:13:58 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

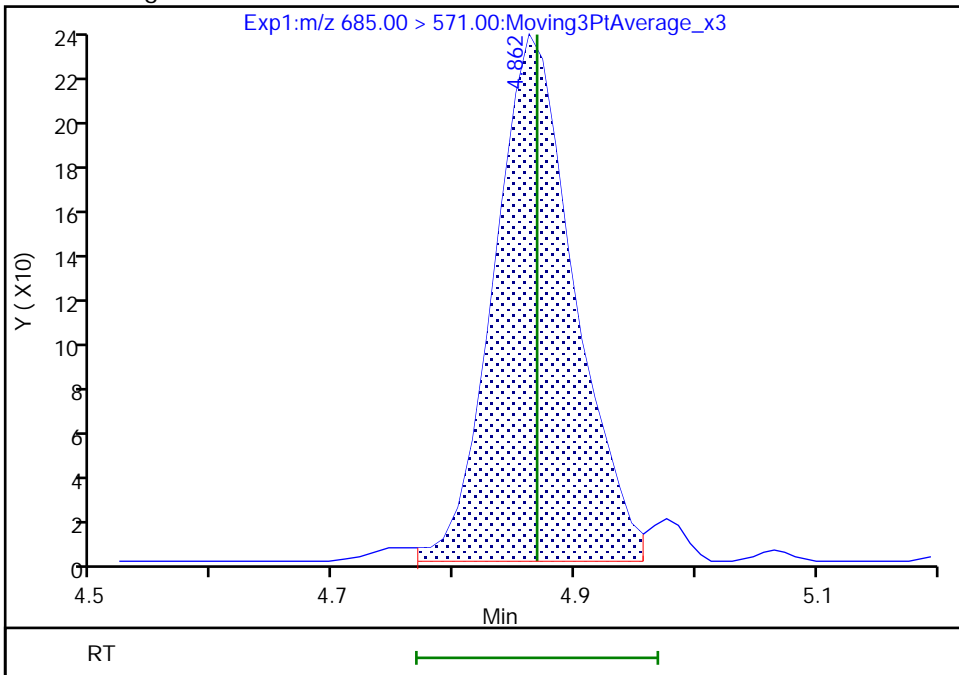
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 1085
Amount: 0.126424
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:25:39
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 14-Aug-2022 03:26:35 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:40 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:25:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	358039	1.69	95.1	804
2 BFS_A3B	519.00 > 113.00	4.013	4.008	0.005	0.923	467147	1.97	99.2	28.9
3 BFS_B3	553.00 > 345.00	4.165	4.161	0.004	0.958	843412	6.40	101	44.4
4 BFS_A2B2	569.00 > 229.00	4.265	4.267	-0.002	0.981	1312413	13.8	99.3	62.1
D 6 13C3 HFPO-DA	332.00 > 287.00	4.349	4.348	0.001	0.877	613094	5.04	101	683
5 BFS_A4B	585.00 > 113.00	4.357	4.353	0.004	1.002	337168	1.15	105	84.9
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	2083219	15.9	107	565
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	678875	2.70	103	492
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.095	303456	3.68	106	436
10 BFS_A2B3	685.00 > 571.00	4.864	4.869	-0.005	1.119	2238	0.2714	104	60.4
									M
									M
* 11 13C2 PFOA	415.00 > 370.00	4.959	4.958	0.001		3033281	5.00		833

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-05.d

Injection Date: 14-Aug-2022 03:26:35

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

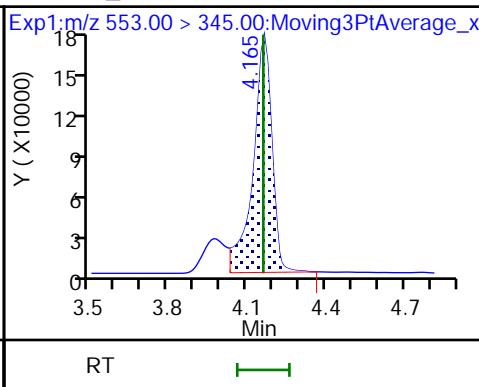
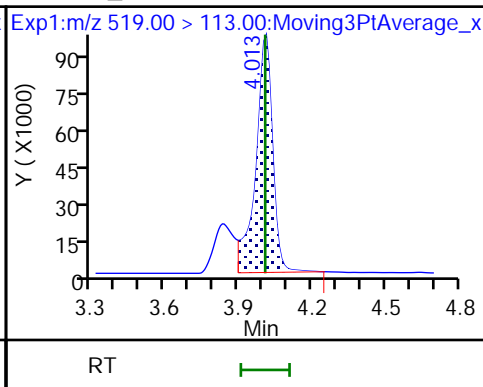
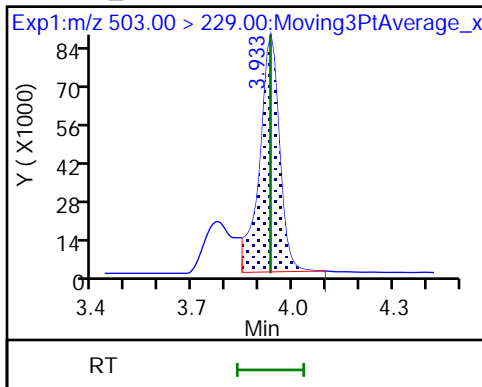
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

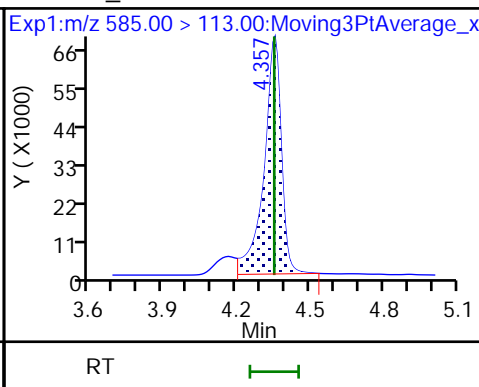
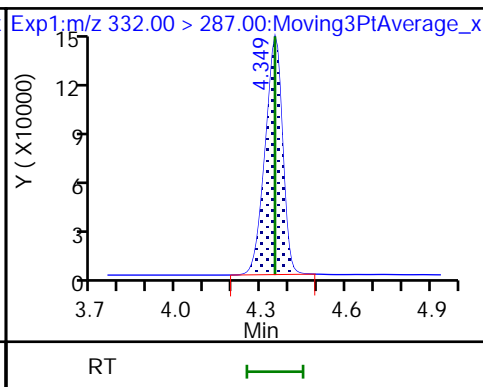
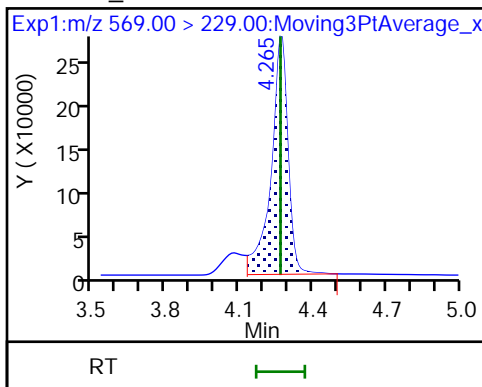
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

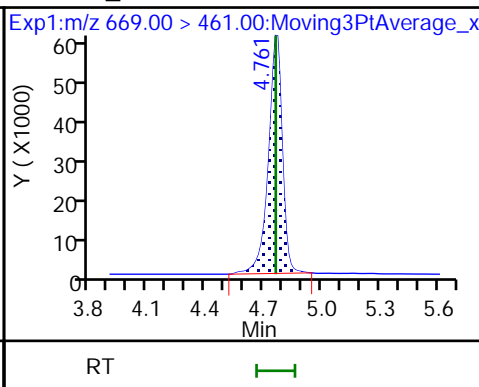
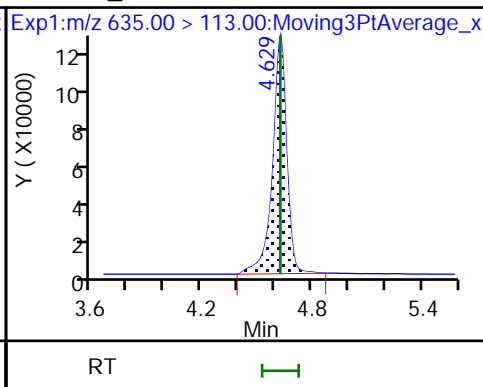
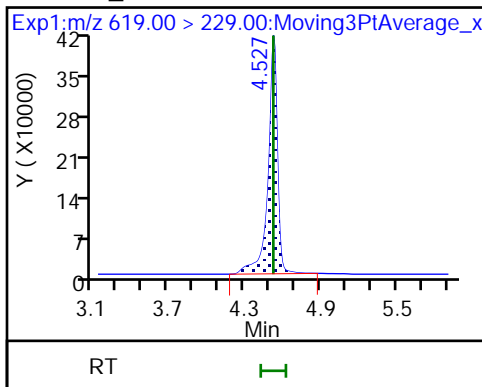
5 BFS_A4B



7 BFS_AB3

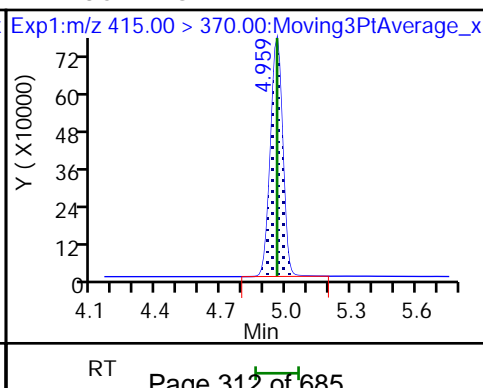
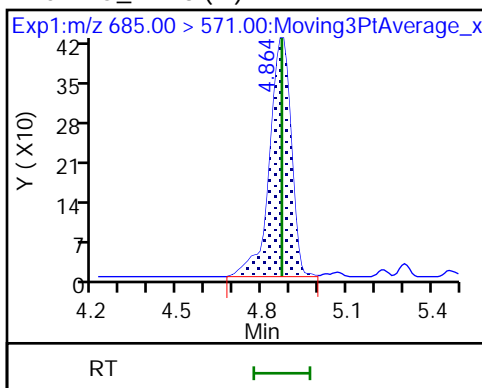
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

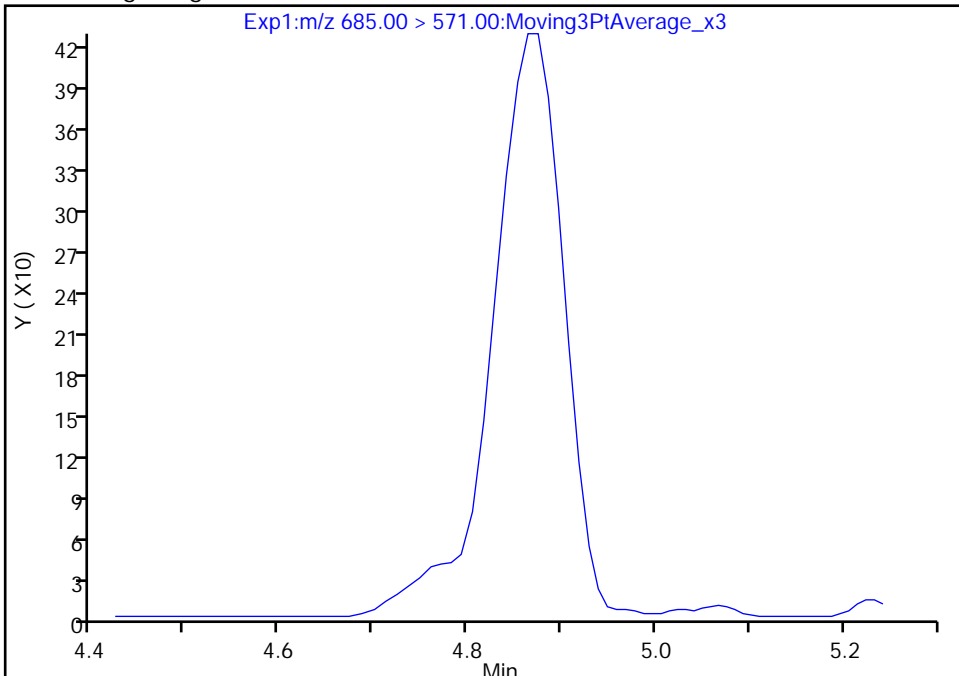
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-05.d
Injection Date: 14-Aug-2022 03:26:35 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

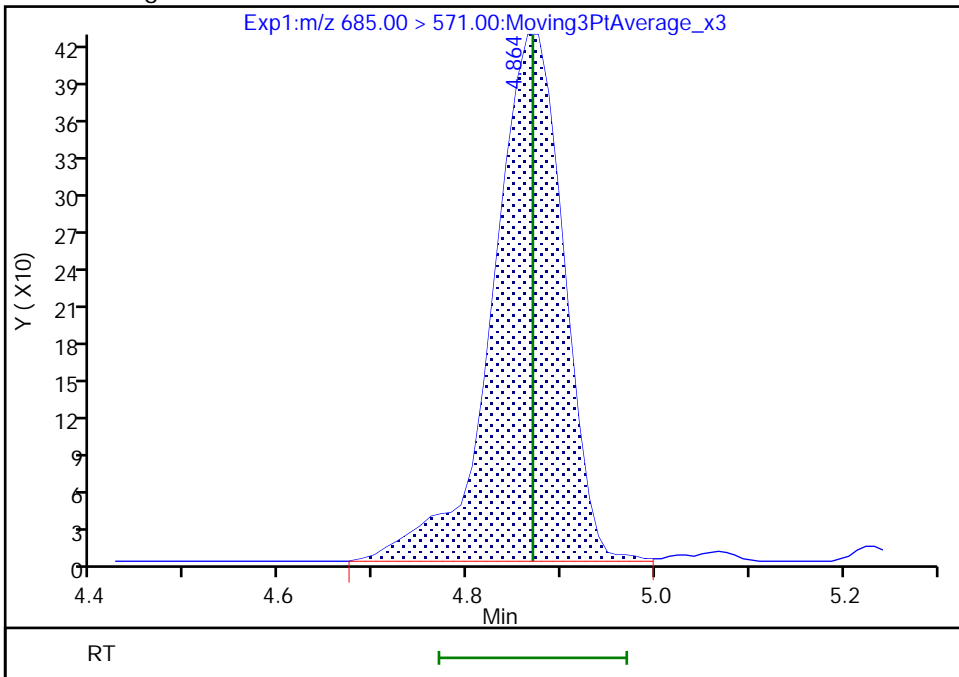
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 2238
Amount: 0.271386
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:25:53
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-Aug-2022 03:39:09 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:41 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.905	928818	4.42	99.3	1219
2 BFS_A3B	519.00 > 113.00	4.011	4.008	0.003	0.923	1215843	5.17	104	39.4
3 BFS_B3	553.00 > 345.00	4.163	4.161	0.002	0.958	2188545	16.8	106	64.4
4 BFS_A2B2	569.00 > 229.00	4.264	4.267	-0.003	0.981	3349872	35.6	103	524
D 6 13C3 HFPO-DA	332.00 > 287.00	4.347	4.348	-0.001	0.877	607823	4.90	98.1	706
5 BFS_A4B	585.00 > 113.00	4.355	4.353	0.002	1.002	837391	2.88	105	323
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.041	4887607	37.8	102	615
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.064	1676878	6.74	103	521
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.095	733541	8.99	104	515
10 BFS_A2B3	685.00 > 571.00	4.875	4.869	0.006	1.121	5813	0.7125	109	188 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3089323	5.00		887

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-06.d

Injection Date: 14-Aug-2022 03:39:09

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

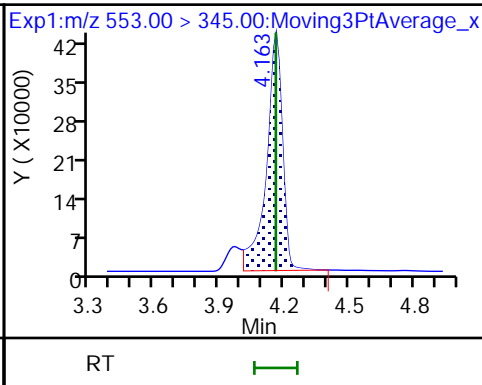
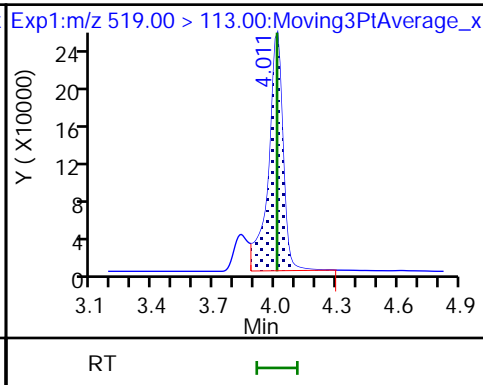
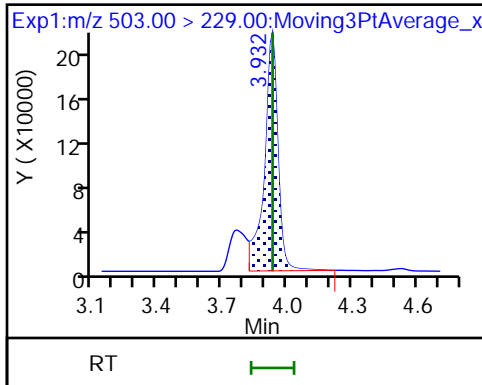
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

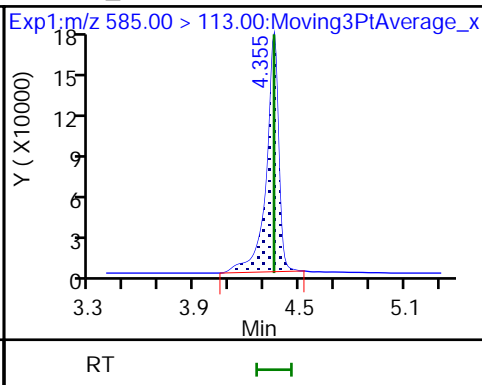
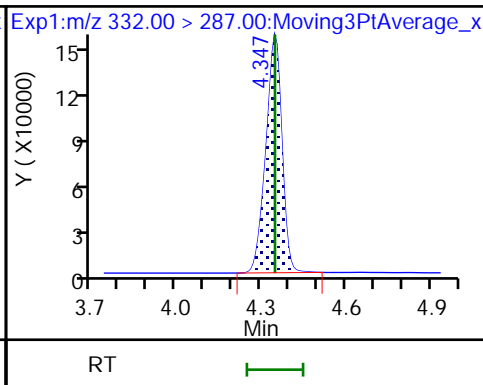
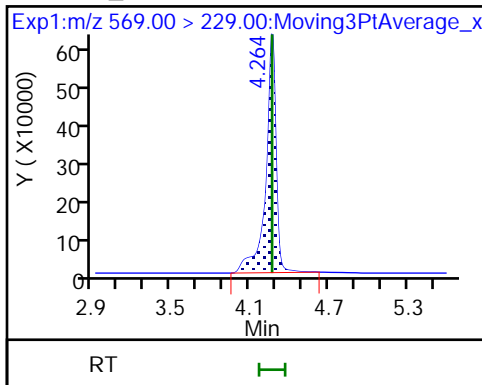
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

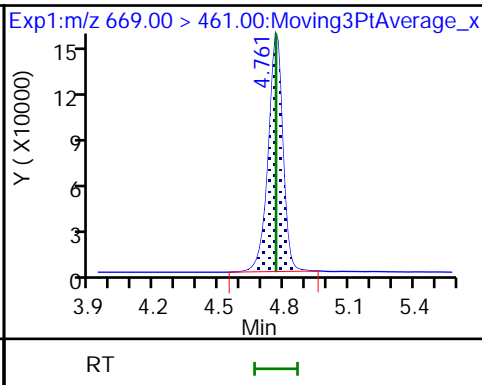
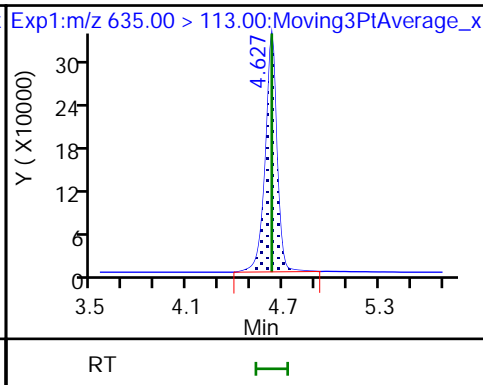
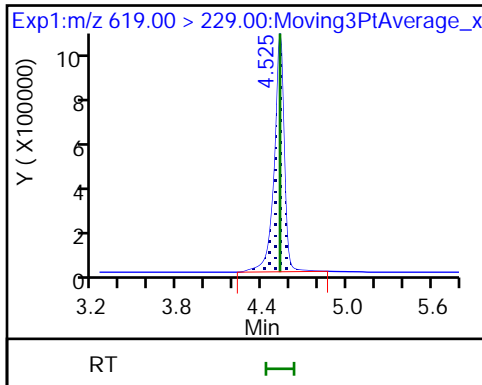
5 BFS_A4B



7 BFS_AB3

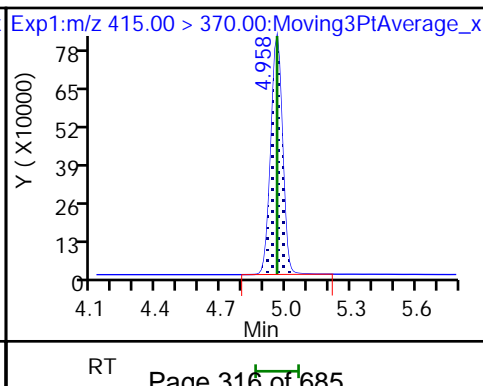
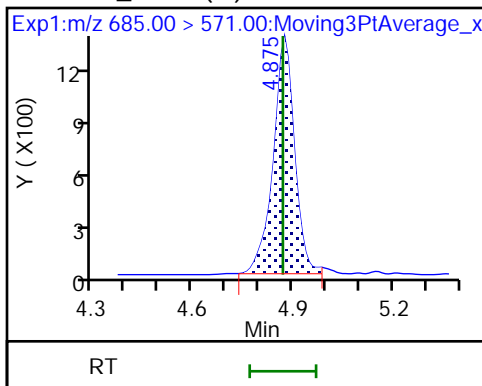
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

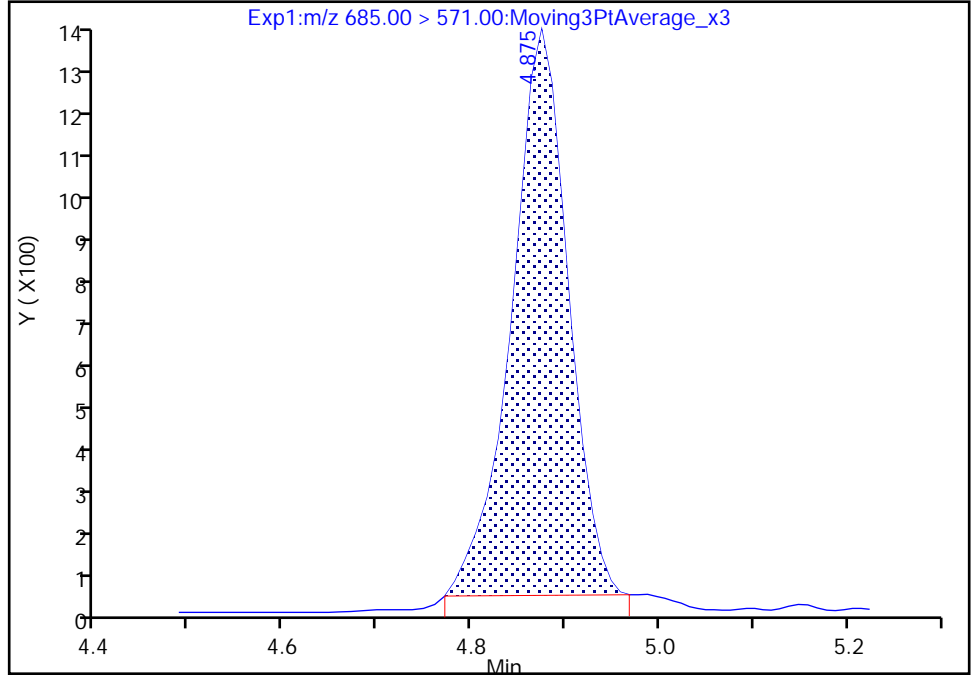
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-06.d
Injection Date: 14-Aug-2022 03:39:09 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

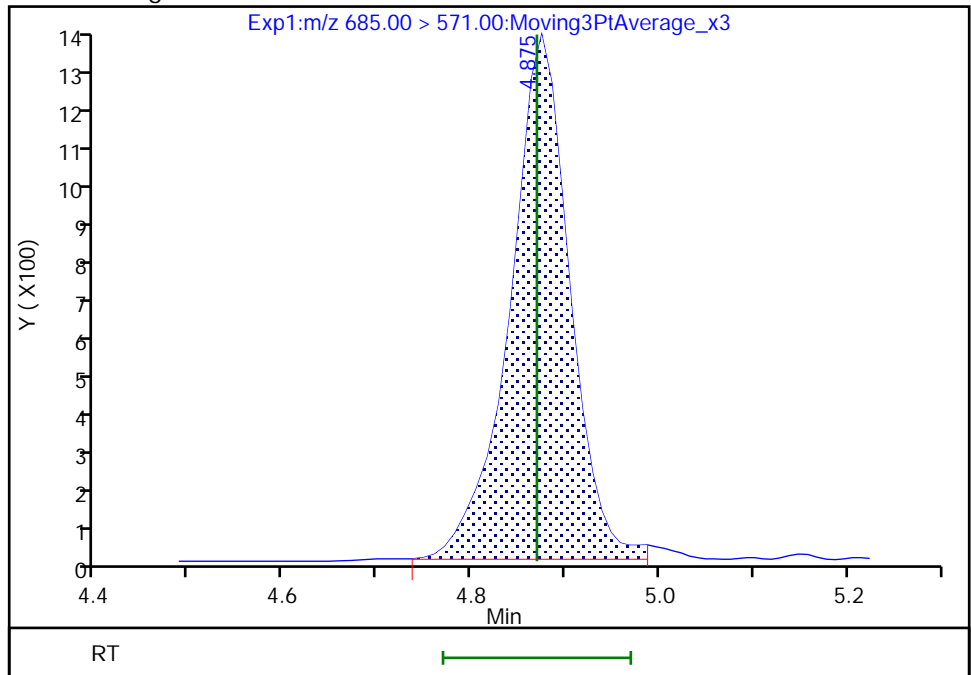
RT: 4.87
Area: 5354
Amount: 0.661989
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 5813
Amount: 0.712511
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:26:12
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 14-Aug-2022 03:51:43 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:42 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:30

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.935	3.932	0.003	0.904	1966651	9.39	105	1349
2 BFS_A3B	519.00 > 113.00	4.004	4.008	-0.004	0.920	2393692	10.2	102	39.4
3 BFS_B3	553.00 > 345.00	4.157	4.161	-0.004	0.955	4407906	33.9	107	64.4
4 BFS_A2B2	569.00 > 229.00	4.269	4.267	0.002	0.981	7057685	75.9	109	467
D 6 13C3 HFPO-DA	332.00 > 287.00	4.352	4.348	0.004	0.878	605647	4.96	99.3	698
5 BFS_A4B	585.00 > 113.00	4.352	4.353	-0.001	1.000	1755466	6.07	110	387
7 BFS_AB3	619.00 > 229.00	4.522	4.525	-0.003	1.039	9534882	74.8	101	580
8 BFS_A3B2	635.00 > 113.00	4.624	4.627	-0.003	1.062	3247924	13.2	101	560
9 BFS_B4	669.00 > 461.00	4.758	4.762	-0.004	1.093	1419837	17.5	101	510
10 BFS_A2B3	685.00 > 571.00	4.873	4.870	0.003	1.120	11331	1.39	106	146 M
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		3041570	5.00		872

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-07.d

Injection Date: 14-Aug-2022 03:51:43

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

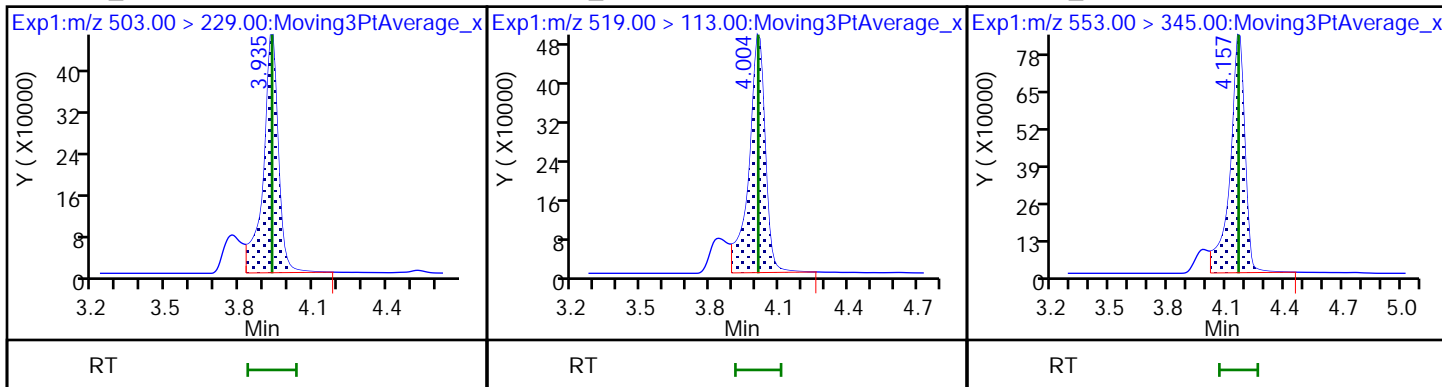
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

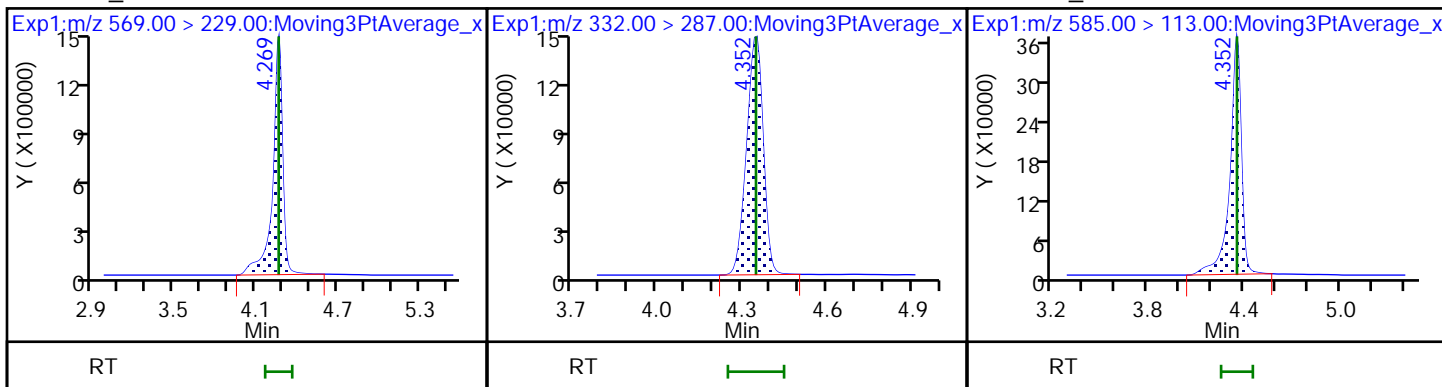
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

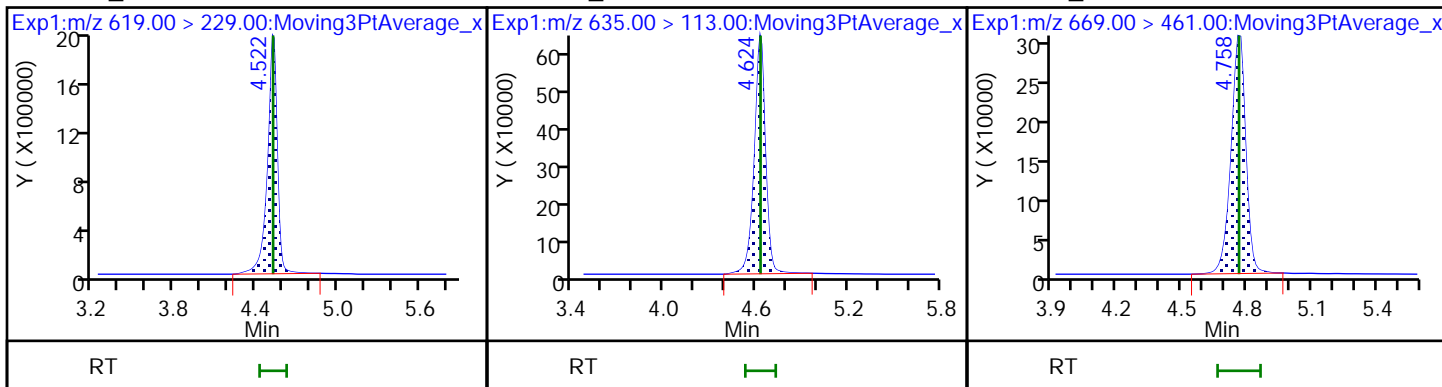
5 BFS_A4B



7 BFS_AB3

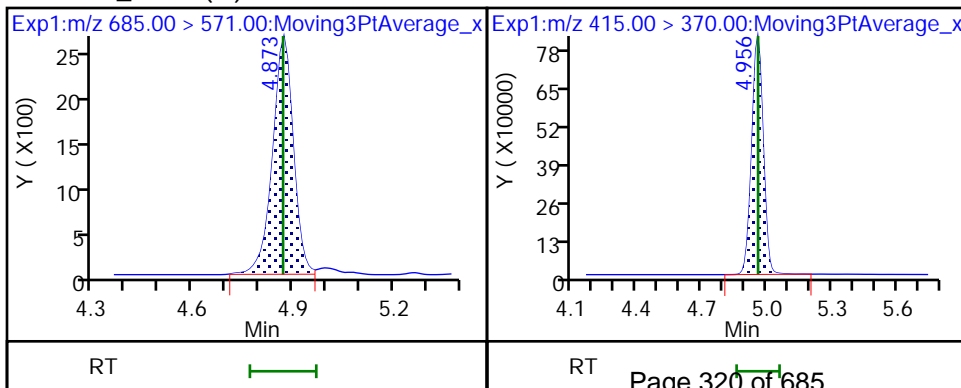
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

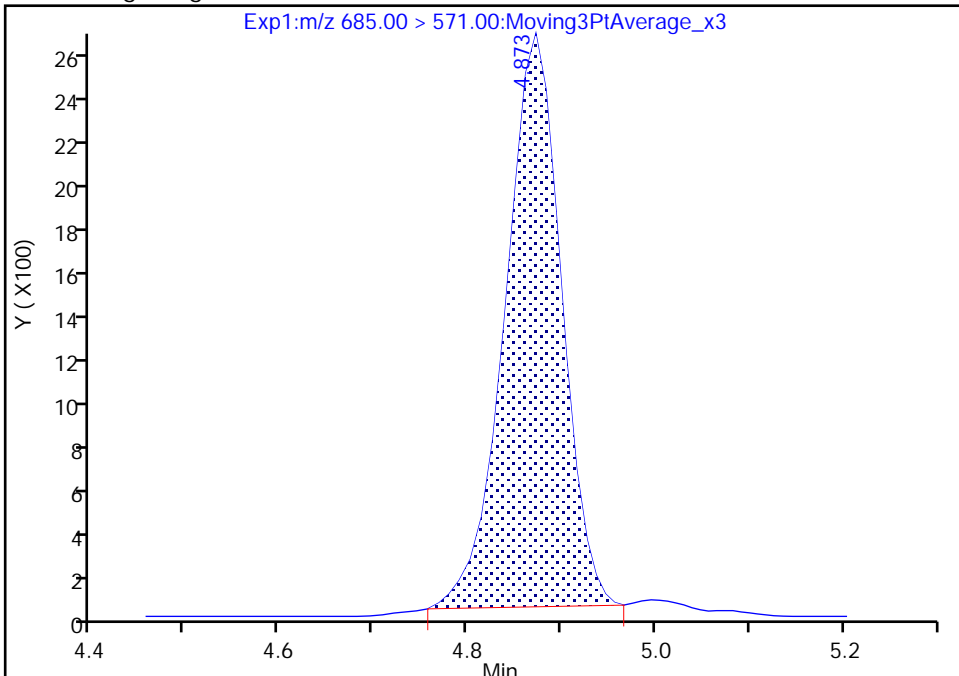
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-07.d
Injection Date: 14-Aug-2022 03:51:43 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

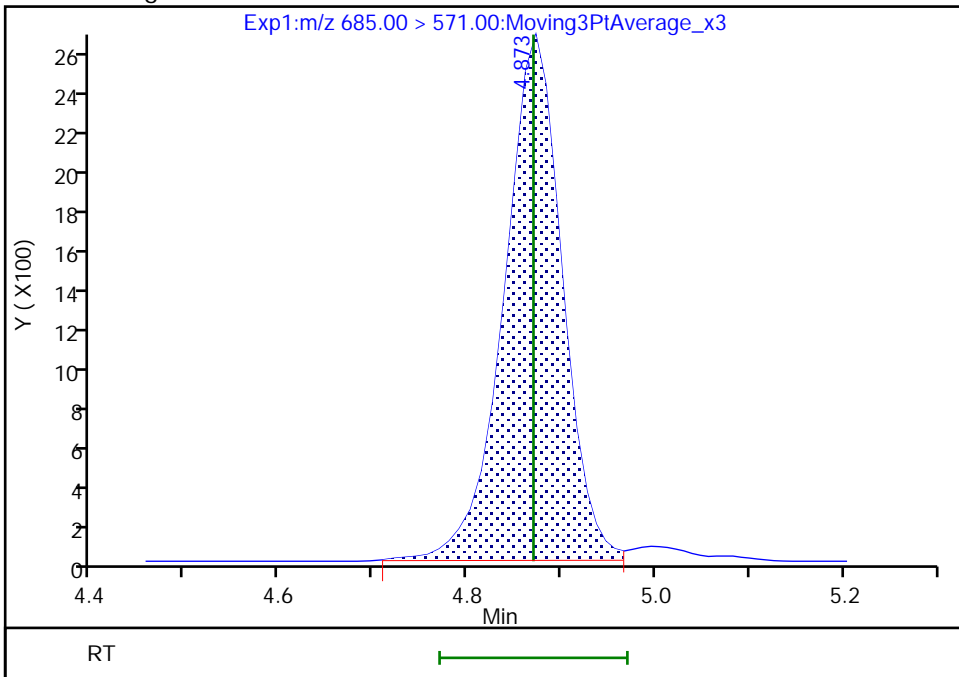
RT: 4.87
Area: 10802
Amount: 1.333783
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 11331
Amount: 1.394737
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:26:26
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-08.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 14-Aug-2022 04:04:18 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:43 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:36

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.903	3673322	17.6	98.7	1169
2 BFS_A3B	519.00 > 113.00	4.011	4.008	0.003	0.921	4707461	20.1	101	32.1
3 BFS_B3	553.00 > 345.00	4.163	4.161	0.002	0.956	8493131	65.5	103	40.1
4 BFS_A2B2	569.00 > 229.00	4.272	4.267	0.005	0.981	12578256	137.4	99.0	79.1
D 6 13C3 HFPO-DA	332.00 > 287.00	4.355	4.348	0.007	0.878	604361	4.87	97.3	740
5 BFS_A4B	585.00 > 113.00	4.355	4.353	0.002	1.000	3307688	11.5	104	77.5
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.039	18308007	147.3	99.0	594
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.062	6417526	26.4	101	561
9 BFS_B4	669.00 > 461.00	4.760	4.762	-0.002	1.093	2785380	34.7	100	566
10 BFS_A2B3	685.00 > 571.00	4.874	4.870	0.004	1.119	21575	2.66	102	282
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3095120	5.00		874

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS8_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-08.d

Injection Date: 14-Aug-2022 04:04:18

Instrument ID: 30733

Lims ID: IC CAL 8

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

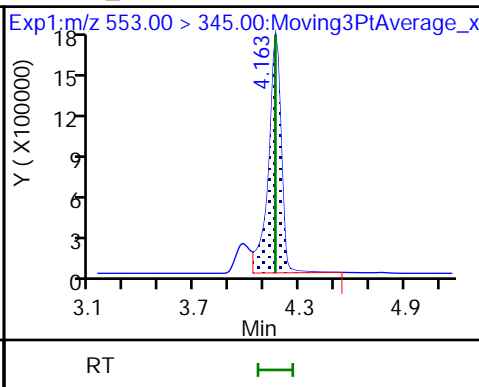
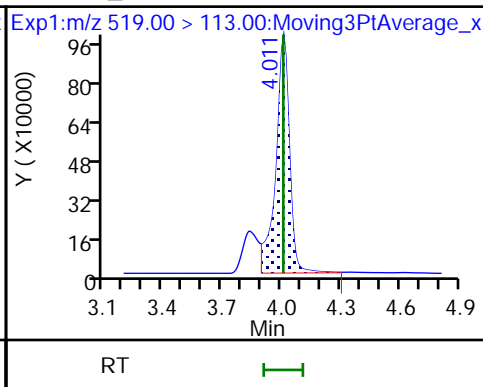
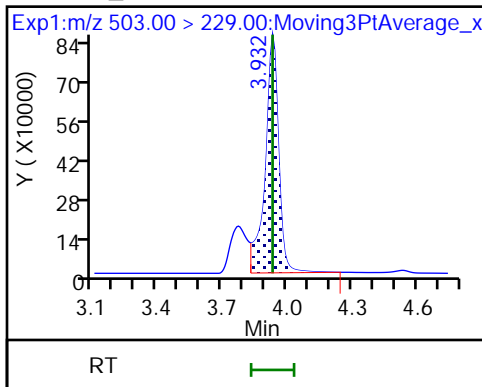
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

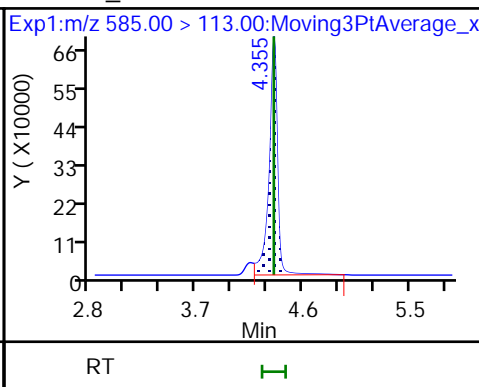
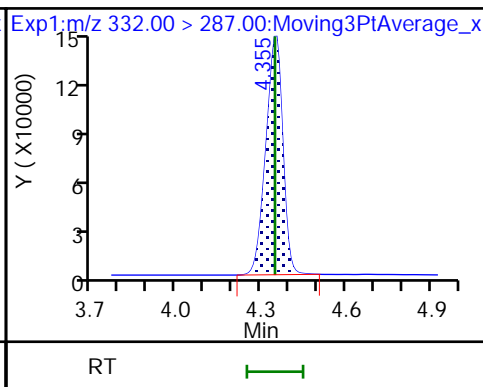
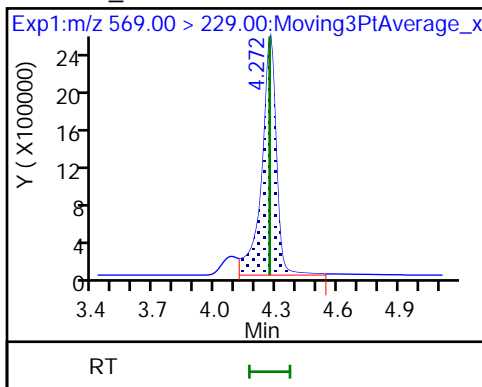
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

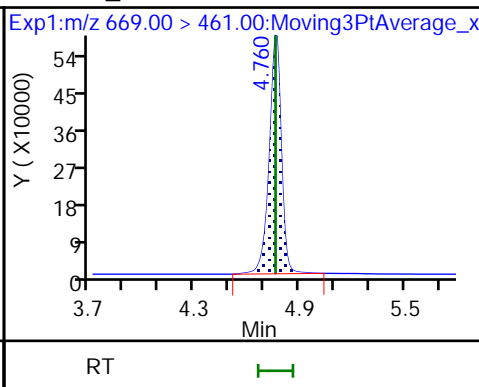
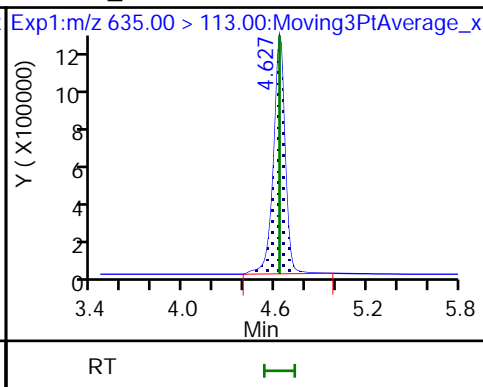
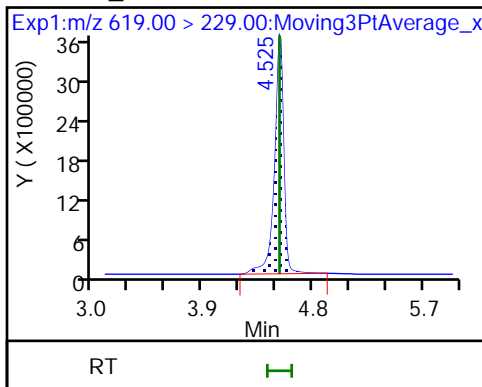
5 BFS_A4B



7 BFS_AB3

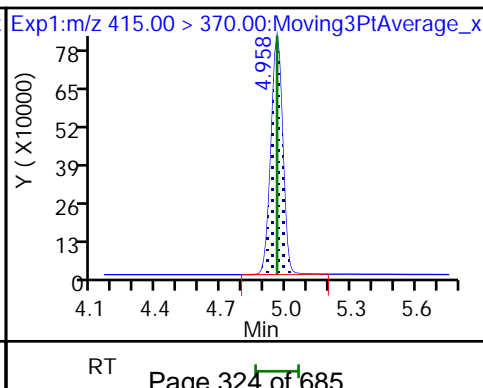
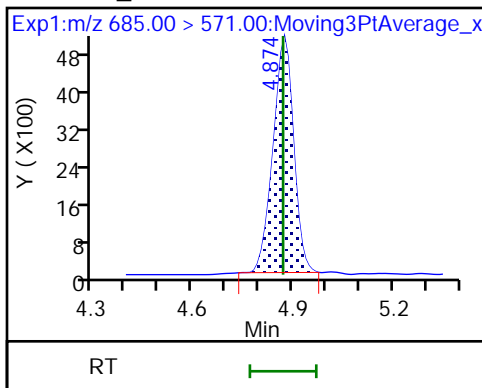
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-09.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 14-Aug-2022 04:16:52 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:43 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:41

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	7962452	37.0	104	2226
2 BFS_A3B	519.00 > 113.00	4.002	4.008	-0.006	0.920	10302824	42.6	107	71.7
3 BFS_B3	553.00 > 345.00	4.165	4.161	0.004	0.958	18271211	136.7	108	519
4 BFS_A2B2	569.00 > 229.00	4.265	4.267	-0.002	0.981	25081980	274.4	98.8	450
D 6 13C3 HFPO-DA	332.00 > 287.00	4.348	4.348	0.0	0.877	623048	5.16	103	892
5 BFS_A4B	585.00 > 113.00	4.348	4.353	-0.005	1.000	6595417	22.2	101	638
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	32379885	262.3	88.1	845
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	11977716	48.9	93.3	2111
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.095	5529764	67.7	97.9	1058
10 BFS_A2B3	685.00 > 571.00	4.875	4.870	0.005	1.121	40996	4.91	93.7	467
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3007939	5.00		872

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS9_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-09.d

Injection Date: 14-Aug-2022 04:16:52

Instrument ID: 30733

Lims ID: IC CAL 9

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

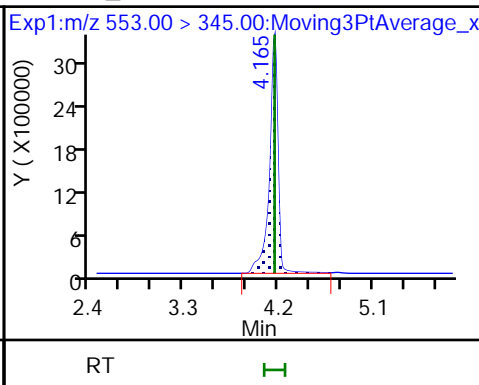
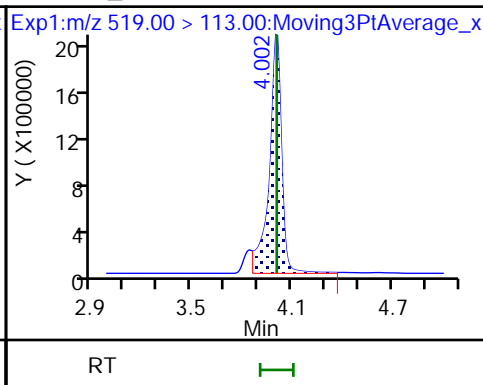
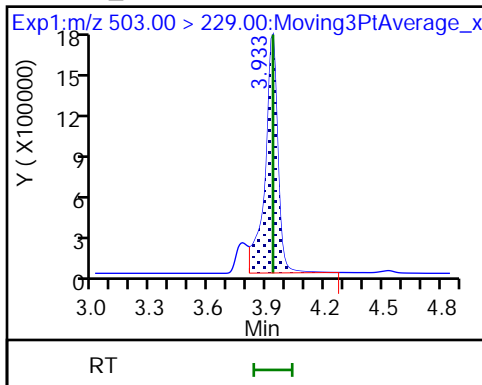
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

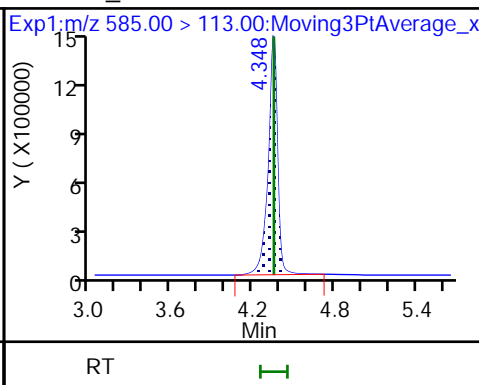
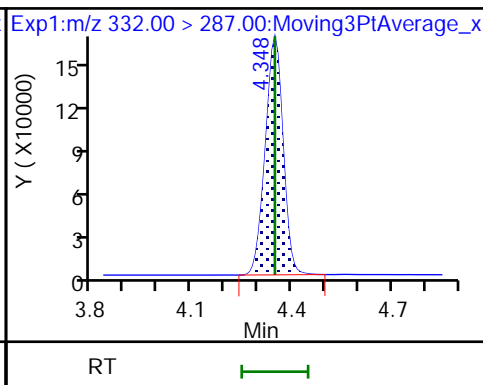
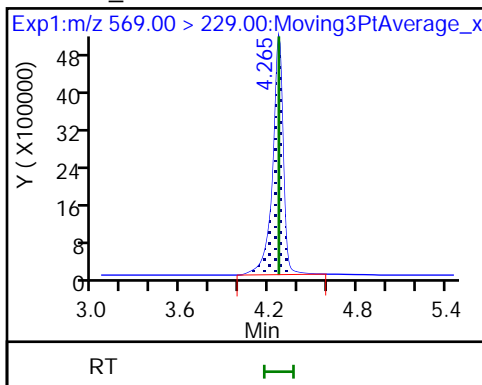
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

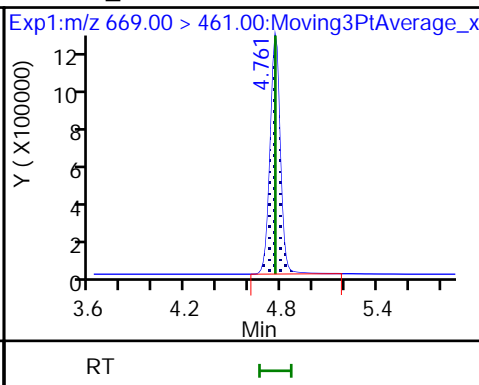
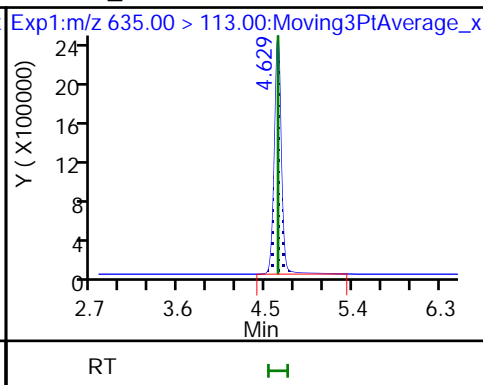
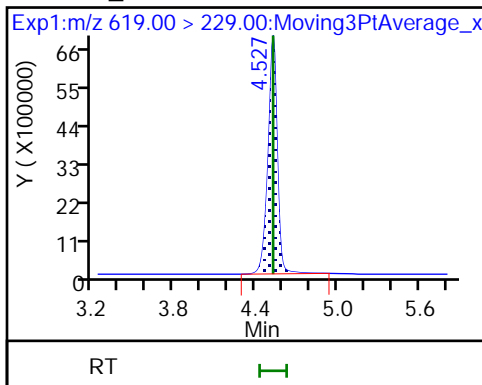
5 BFS_A4B



7 BFS_AB3

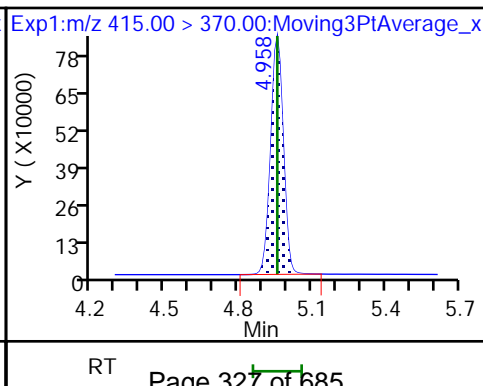
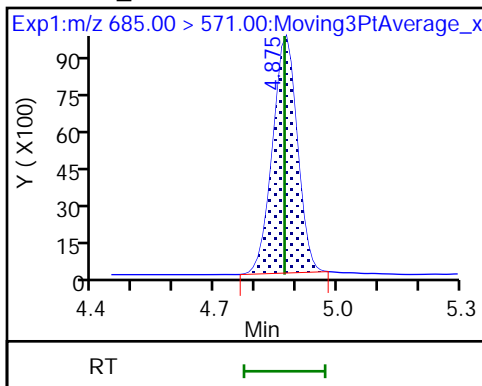
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 14-Aug-2022 04:29:29 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:44 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:47

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.905	17604602	87.7	98.4	1120
2 BFS_A3B	519.00 > 113.00	4.010	4.008	0.002	0.923	21651619	96.2	96.6	28.2
3 BFS_B3	553.00 > 345.00	4.163	4.161	0.002	0.958	37604912	301.9	95.2	26.4
4 BFS_A2B2	569.00 > 229.00	4.263	4.267	-0.004	0.981	53023174	690.5	99.5	59.7
5 BFS_A4B	585.00 > 113.00	4.355	4.353	0.002	1.002	14877264	53.7	97.5	93.7
D 6 13C3 HFPO-DA	332.00 > 287.00	4.346	4.348	-0.002	0.877	580678	4.89	97.7	681
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.041	75507247	798.3	107	1152979
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.064	28128569	134.4	103	1812
9 BFS_B4	669.00 > 461.00	4.760	4.762	-0.002	1.095	12632285	173.5	100	615
10 BFS_A2B3	685.00 > 571.00	4.874	4.870	0.004	1.121	103106	13.2	101	440
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2961057	5.00		844

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Injection Date: 14-Aug-2022 04:29:29

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

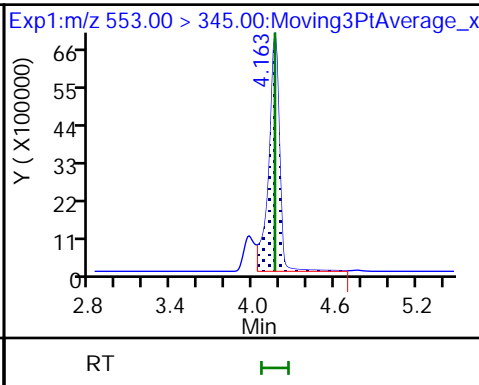
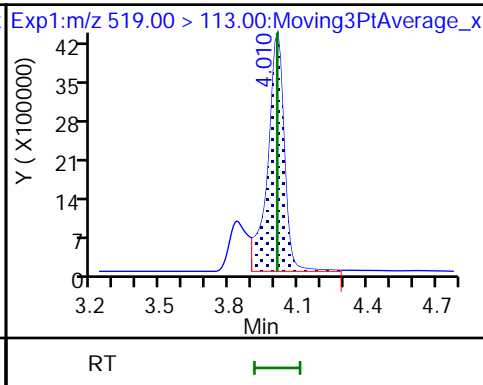
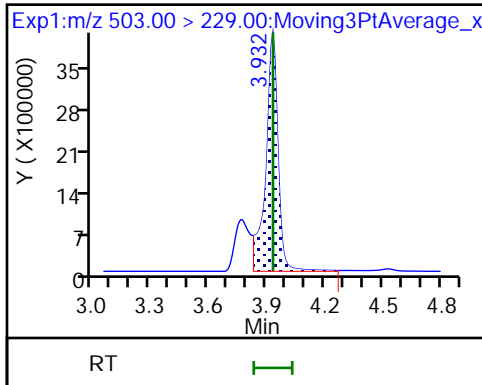
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

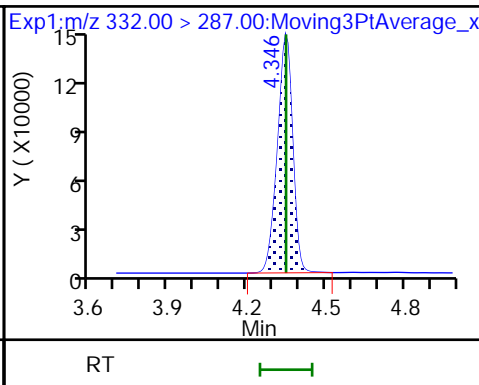
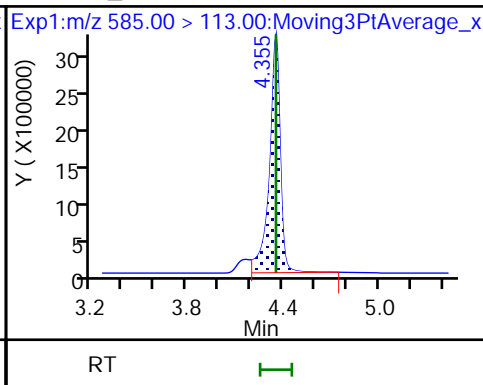
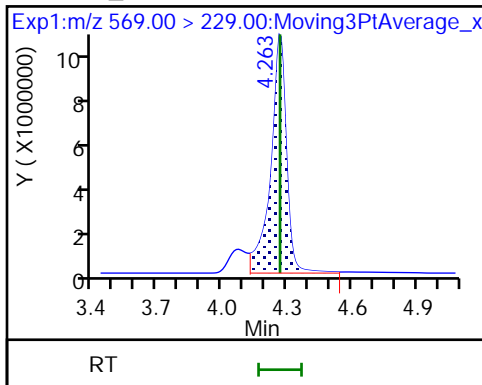
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B

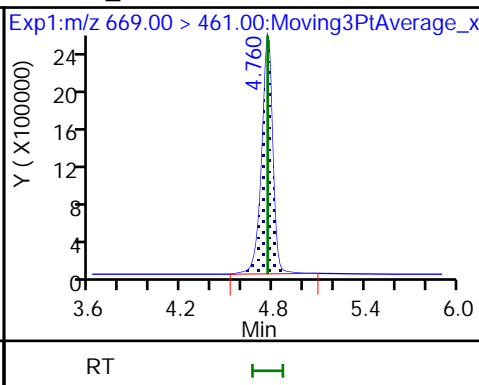
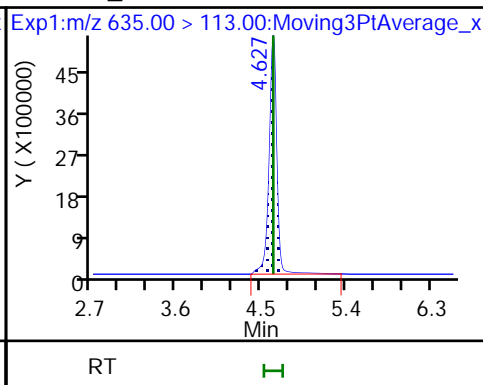
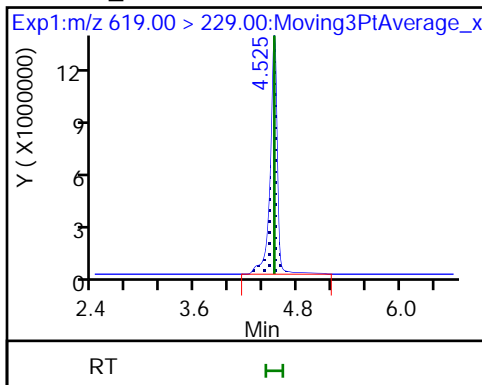
D 6 13C3 HFPO-DA



7 BFS_AB3

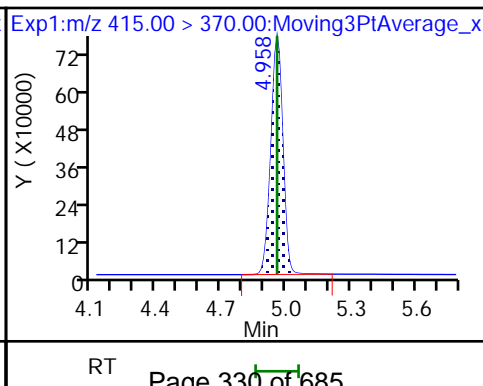
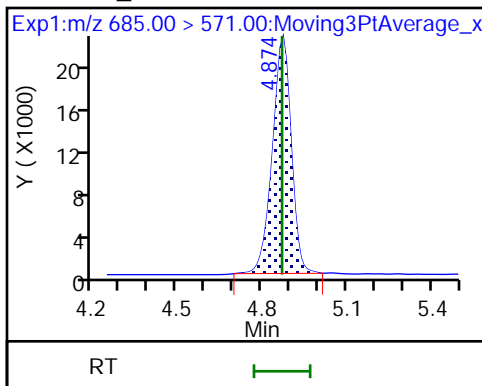
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Calibration

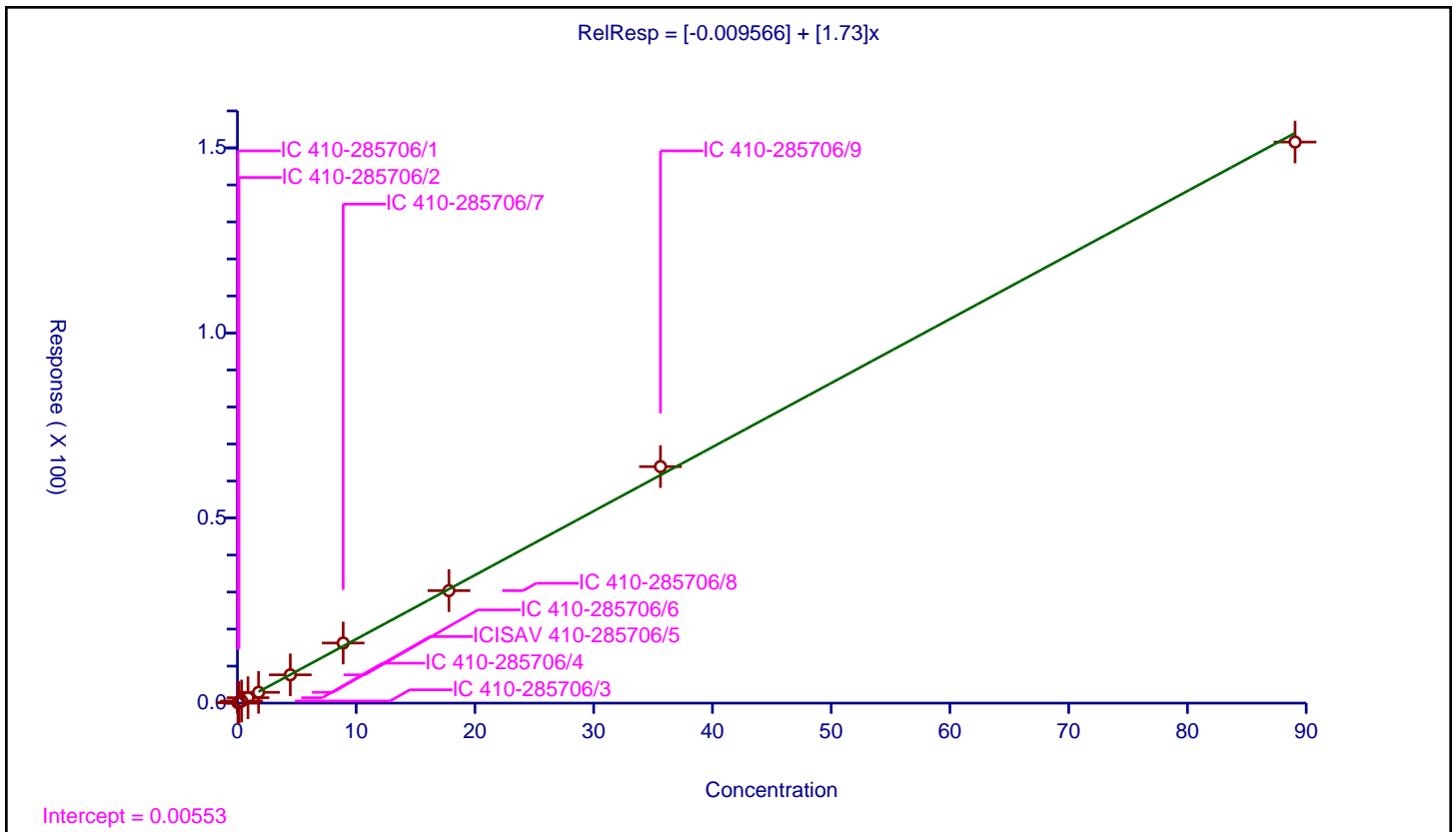
/ BFS_AB2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.009566
Slope:	1.73

Error Coefficients	
Standard Error:	7000000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.044531	0.073726	5.0	623591.0	1.655615	Y
2	IC 410-285706/2	0.133593	0.222791	5.0	614007.0	1.667682	Y
3	IC 410-285706/3	0.356248	0.575559	5.0	617591.0	1.615613	Y
4	IC 410-285706/4	0.89062	1.463046	5.0	635578.0	1.642728	Y
5	ICISAV 410-285706/5	1.78124	2.919936	5.0	613094.0	1.639271	Y
6	IC 410-285706/6	4.4531	7.64053	5.0	607823.0	1.715778	Y
7	IC 410-285706/7	8.9062	16.235951	5.0	605647.0	1.822994	Y
8	IC 410-285706/8	17.8124	30.390131	5.0	604361.0	1.706122	Y
9	IC 410-285706/9	35.6248	63.899186	5.0	623048.0	1.793671	Y
10	IC 410-285706/10	89.062	151.586611	5.0	580678.0	1.702035	Y



Calibration

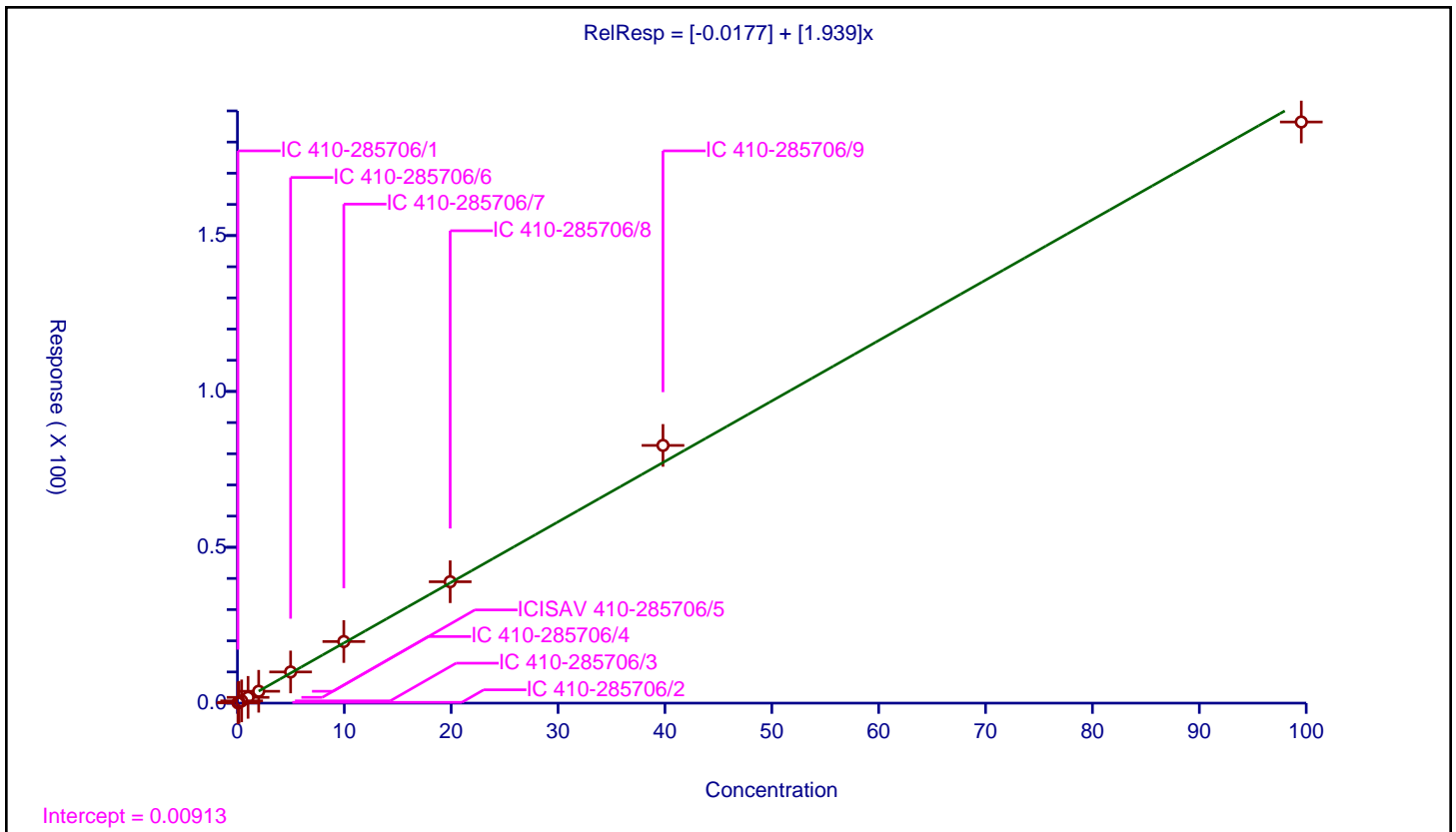
/ BFS_A3B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.0177
Slope:	1.939

Error Coefficients	
Standard Error:	8690000
Relative Standard Error:	4.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.04977	0.081231	5.0	623591.0	1.632139	Y
2	IC 410-285706/2	0.149309	0.258206	5.0	614007.0	1.729334	Y
3	IC 410-285706/3	0.398158	0.717918	5.0	617591.0	1.8031	Y
4	IC 410-285706/4	0.995395	1.850748	5.0	635578.0	1.859311	Y
5	ICISAV 410-285706/5	1.99079	3.80975	5.0	613094.0	1.913688	Y
6	IC 410-285706/6	4.976975	10.001621	5.0	607823.0	2.009578	Y
7	IC 410-285706/7	9.95395	19.761445	5.0	605647.0	1.985287	Y
8	IC 410-285706/8	19.9079	38.945771	5.0	604361.0	1.956297	Y
9	IC 410-285706/9	39.8158	82.680821	5.0	623048.0	2.076583	Y
10	IC 410-285706/10	99.5395	186.433953	5.0	580678.0	1.872965	Y



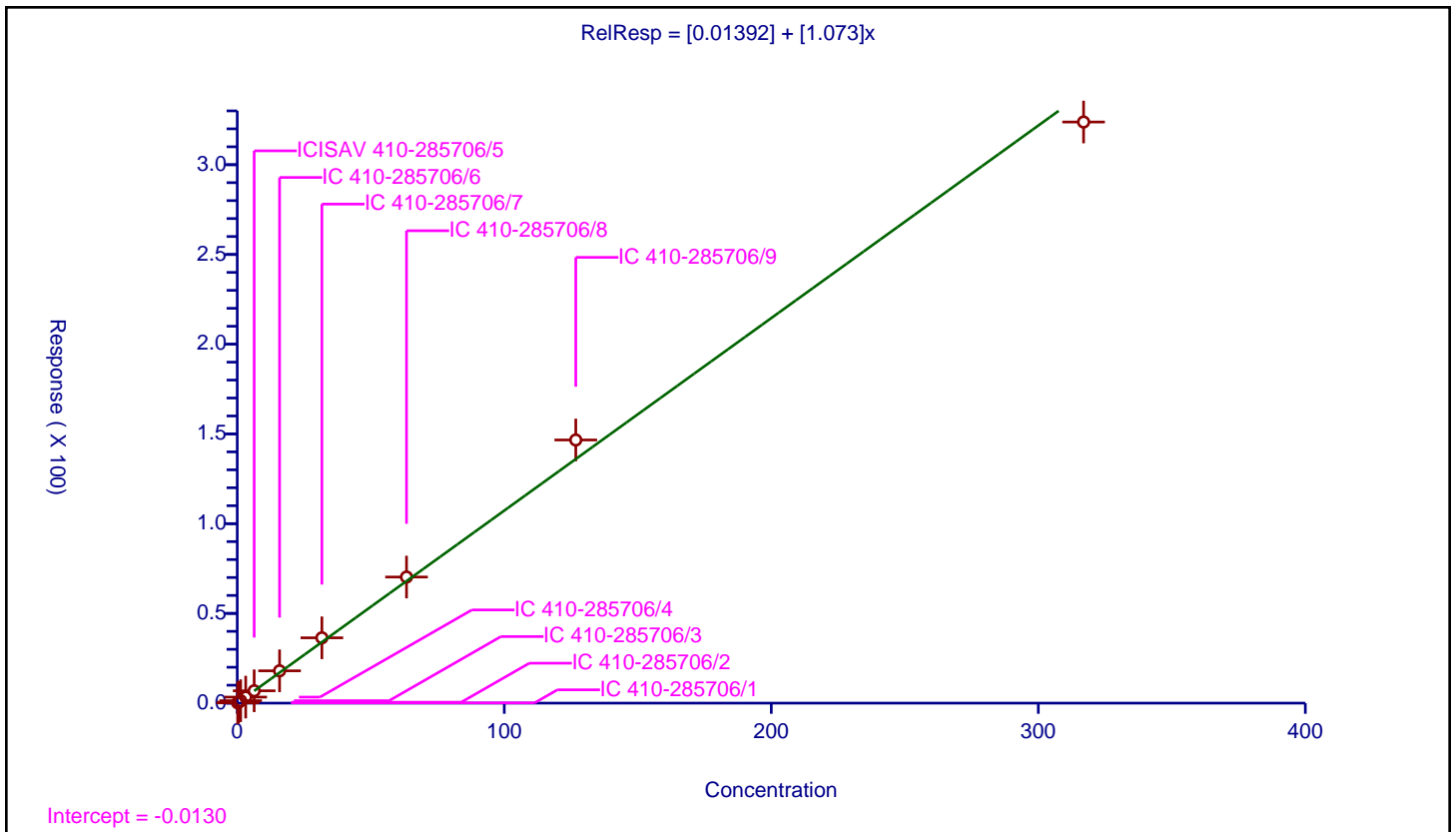
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.01392
Slope:	1.073

Error Coefficients	
Standard Error:	15200000
Relative Standard Error:	7.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.158478	0.157162	5.0	623591.0	0.9917	Y
2	IC 410-285706/2	0.475433	0.513447	5.0	614007.0	1.079956	Y
3	IC 410-285706/3	1.267822	1.362253	5.0	617591.0	1.074483	Y
4	IC 410-285706/4	3.169555	3.363623	5.0	635578.0	1.061229	Y
5	ICISAV 410-285706/5	6.33911	6.878325	5.0	613094.0	1.085062	Y
6	IC 410-285706/6	15.847775	18.003144	5.0	607823.0	1.136005	Y
7	IC 410-285706/7	31.69555	36.390059	5.0	605647.0	1.148113	Y
8	IC 410-285706/8	63.3911	70.265379	5.0	604361.0	1.108442	Y
9	IC 410-285706/9	126.7822	146.627635	5.0	623048.0	1.156532	Y
10	IC 410-285706/10	316.9555	323.801763	5.0	580678.0	1.0216	Y



Calibration

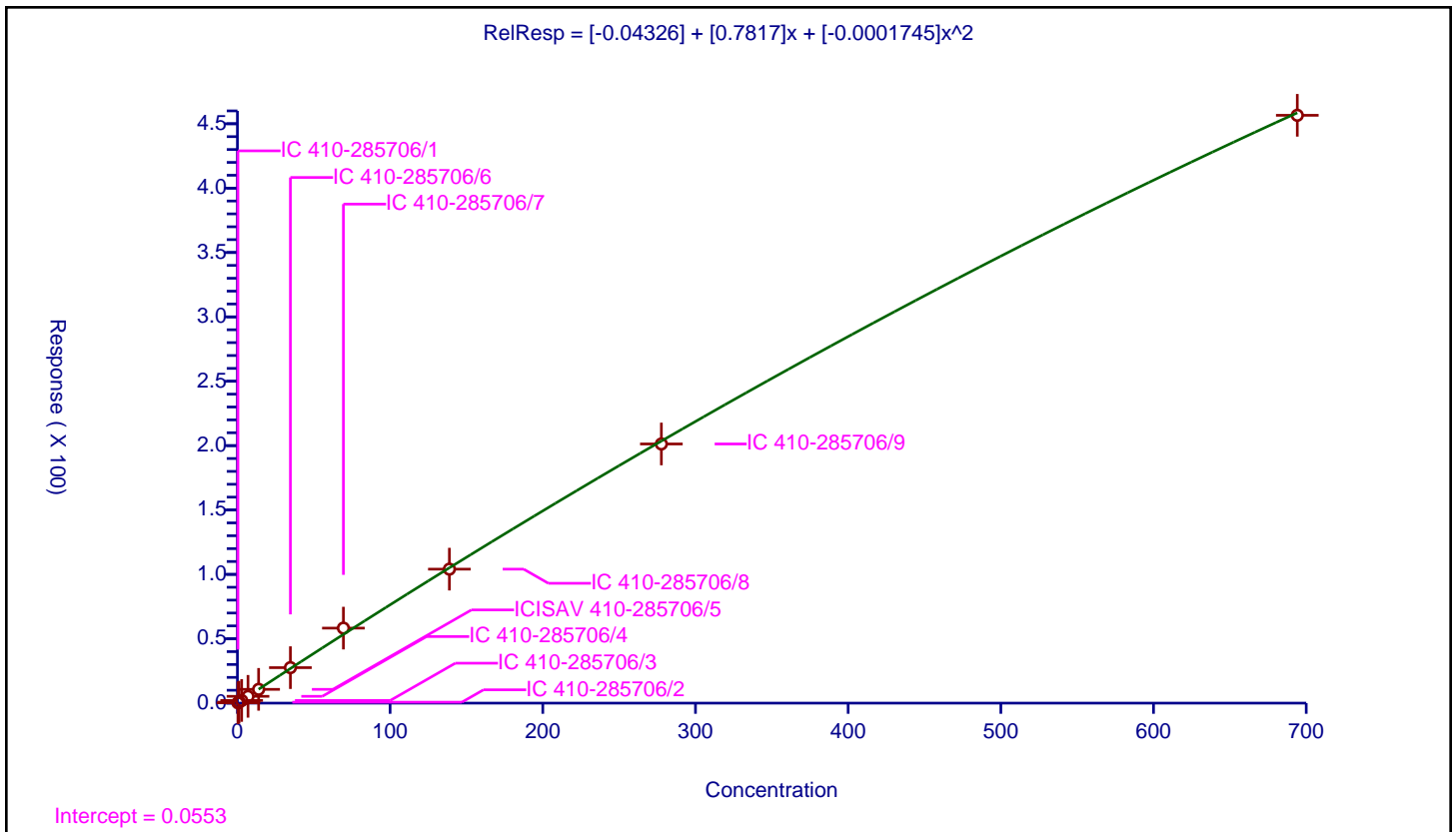
/ BFS_A2B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.04326
Slope:	0.7817
Second Order:	-0.0001745

Error Coefficients	
Standard Error:	22900000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.347079	0.234192	5.0	623591.0	0.674751	Y
2	IC 410-285706/2	1.041238	0.726816	5.0	614007.0	0.698031	Y
3	IC 410-285706/3	2.776634	2.049083	5.0	617591.0	0.737974	Y
4	IC 410-285706/4	6.941585	5.275025	5.0	635578.0	0.759917	Y
5	ICISAV 410-285706/5	13.88317	10.703196	5.0	613094.0	0.770948	Y
6	IC 410-285706/6	34.707925	27.556312	5.0	607823.0	0.793949	Y
7	IC 410-285706/7	69.41585	58.265665	5.0	605647.0	0.839371	Y
8	IC 410-285706/8	138.8317	104.06244	5.0	604361.0	0.749558	Y
9	IC 410-285706/9	277.6634	201.284492	5.0	623048.0	0.724923	Y
10	IC 410-285706/10	694.1585	456.562622	5.0	580678.0	0.657721	Y



Calibration

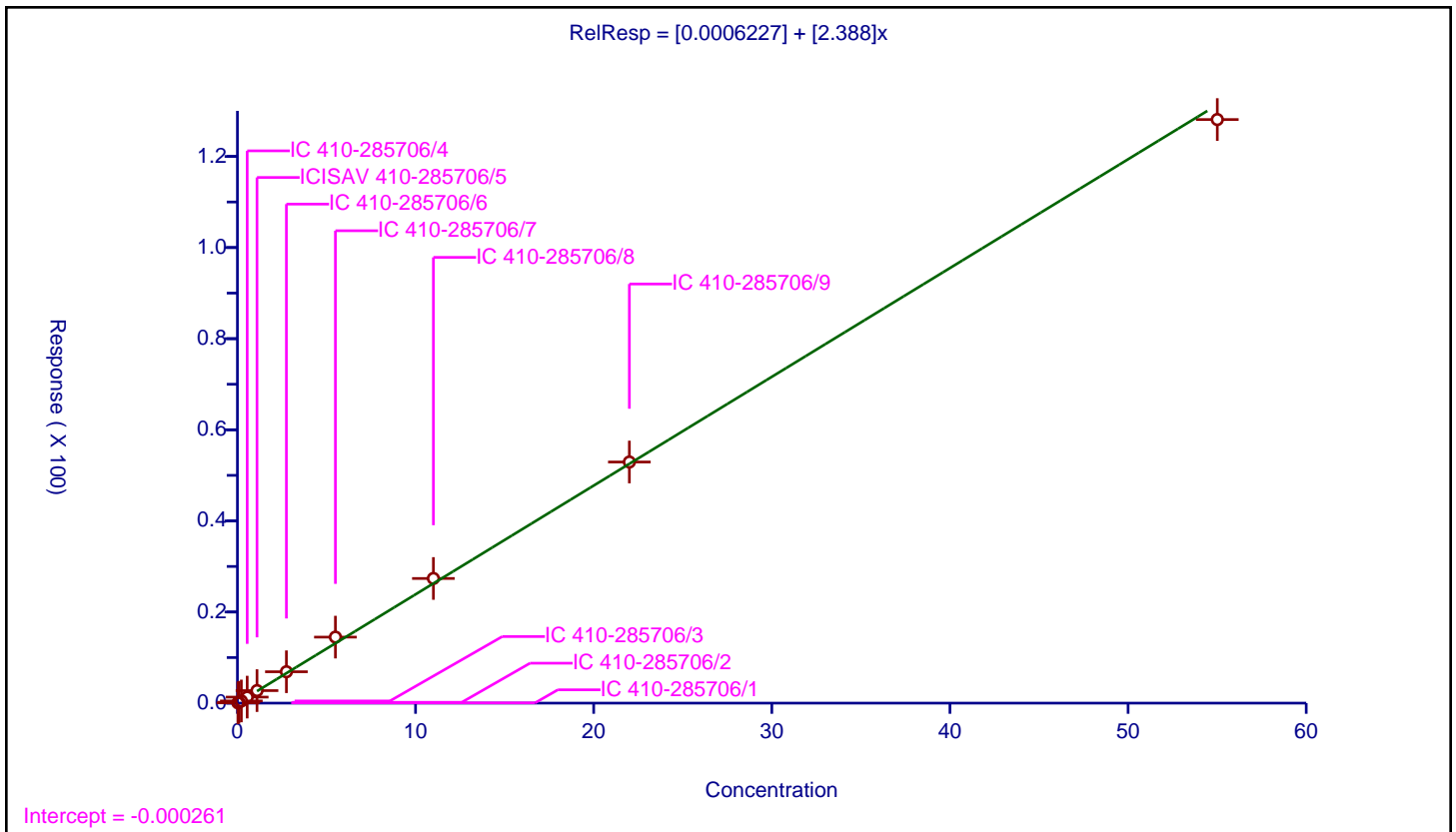
/ BFS_A4B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0006227
Slope:	2.388

Error Coefficients	
Standard Error:	5910000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.027505	0.0621	5.0	623591.0	2.257812	Y
2	IC 410-285706/2	0.082514	0.182522	5.0	614007.0	2.21203	Y
3	IC 410-285706/3	0.220036	0.478788	5.0	617591.0	2.175952	Y
4	IC 410-285706/4	0.55009	1.322906	5.0	635578.0	2.40489	Y
5	ICISAV 410-285706/5	1.10018	2.749725	5.0	613094.0	2.499341	Y
6	IC 410-285706/6	2.75045	6.888444	5.0	607823.0	2.504479	Y
7	IC 410-285706/7	5.5009	14.492485	5.0	605647.0	2.634566	Y
8	IC 410-285706/8	11.0018	27.365168	5.0	604361.0	2.487335	Y
9	IC 410-285706/9	22.0036	52.928643	5.0	623048.0	2.405454	Y
10	IC 410-285706/10	55.009	128.102528	5.0	580678.0	2.328756	Y



Calibration

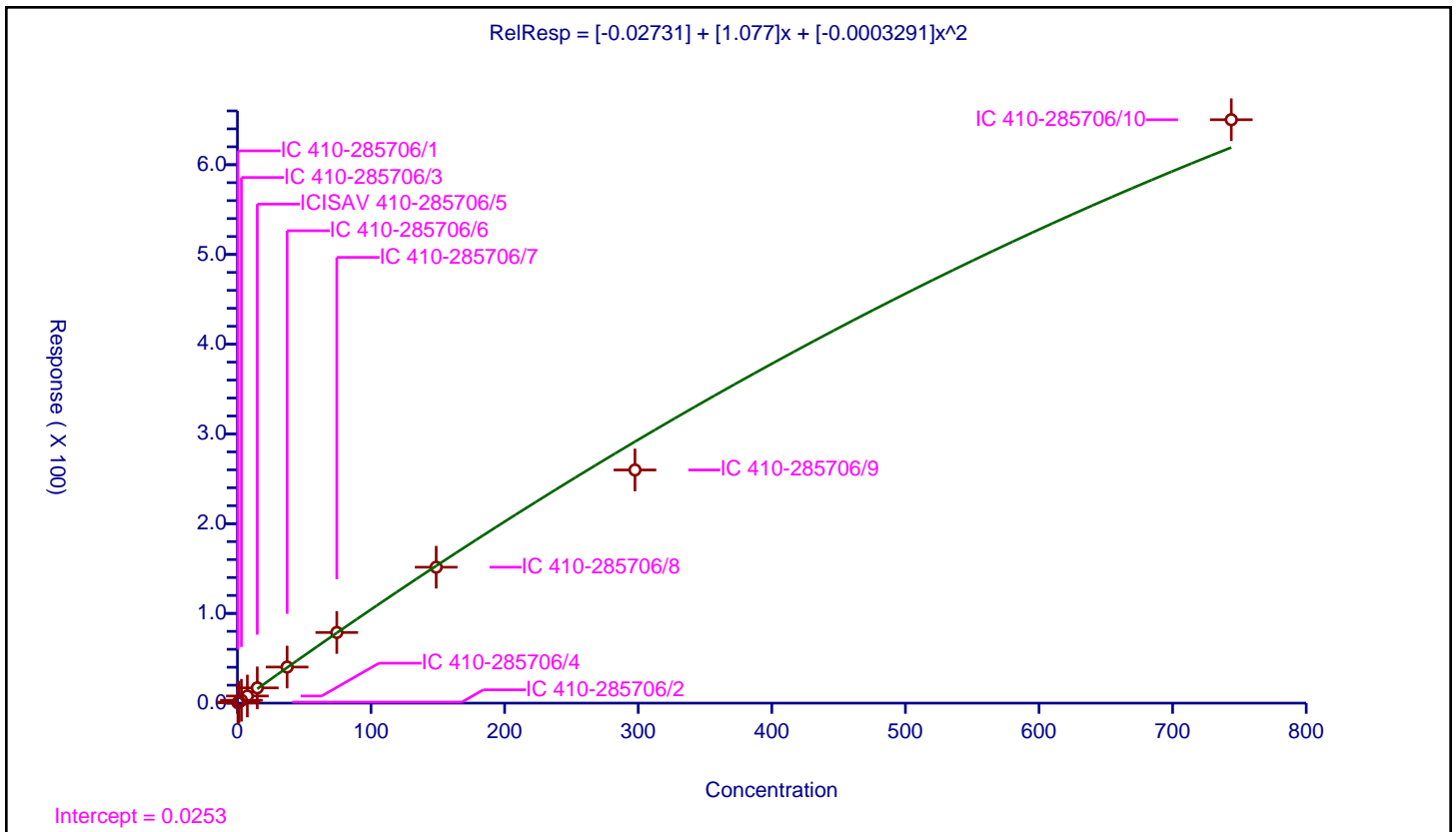
/ BFS_AB3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02731
Slope:	1.077
Second Order:	-0.0003291

Error Coefficients	
Standard Error:	32100000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.371964	0.376529	5.0	623591.0	1.012272	Y
2	IC 410-285706/2	1.115893	1.136339	5.0	614007.0	1.018323	Y
3	IC 410-285706/3	2.975714	3.201123	5.0	617591.0	1.07575	Y
4	IC 410-285706/4	7.439285	7.950511	5.0	635578.0	1.06872	Y
5	ICISAV 410-285706/5	14.87857	16.989393	5.0	613094.0	1.14187	Y
6	IC 410-285706/6	37.196425	40.205841	5.0	607823.0	1.080906	Y
7	IC 410-285706/7	74.39285	78.716497	5.0	605647.0	1.058119	Y
8	IC 410-285706/8	148.7857	151.465821	5.0	604361.0	1.018013	Y
9	IC 410-285706/9	297.5714	259.850646	5.0	623048.0	0.873238	Y
10	IC 410-285706/10	743.9285	650.164523	5.0	580678.0	0.873961	Y



Calibration

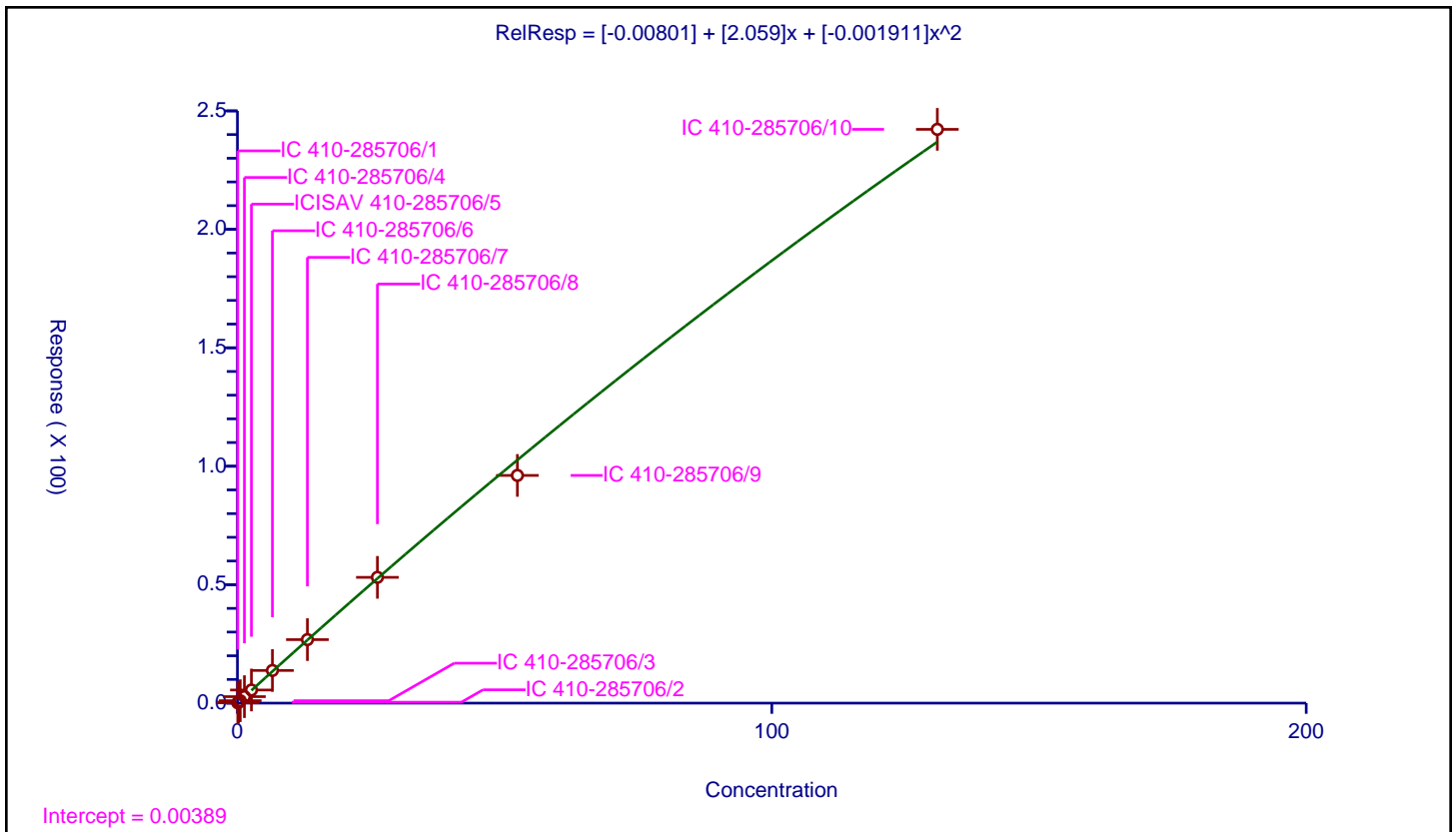
/ BFS_A3B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.00801
Slope:	2.059
Second Order:	-0.001911

Error Coefficients	
Standard Error:	11900000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.065487	0.128257	5.0	623591.0	1.958521	Y
2	IC 410-285706/2	0.19646	0.387479	5.0	614007.0	1.972304	Y
3	IC 410-285706/3	0.523894	1.026497	5.0	617591.0	1.959359	Y
4	IC 410-285706/4	1.309735	2.733244	5.0	635578.0	2.086868	Y
5	ICISAV 410-285706/5	2.61947	5.536467	5.0	613094.0	2.113583	Y
6	IC 410-285706/6	6.548675	13.794131	5.0	607823.0	2.1064	Y
7	IC 410-285706/7	13.09735	26.813672	5.0	605647.0	2.047259	Y
8	IC 410-285706/8	26.1947	53.093482	5.0	604361.0	2.026879	Y
9	IC 410-285706/9	52.3894	96.121936	5.0	623048.0	1.834759	Y
10	IC 410-285706/10	130.9735	242.204535	5.0	580678.0	1.849264	Y



Calibration

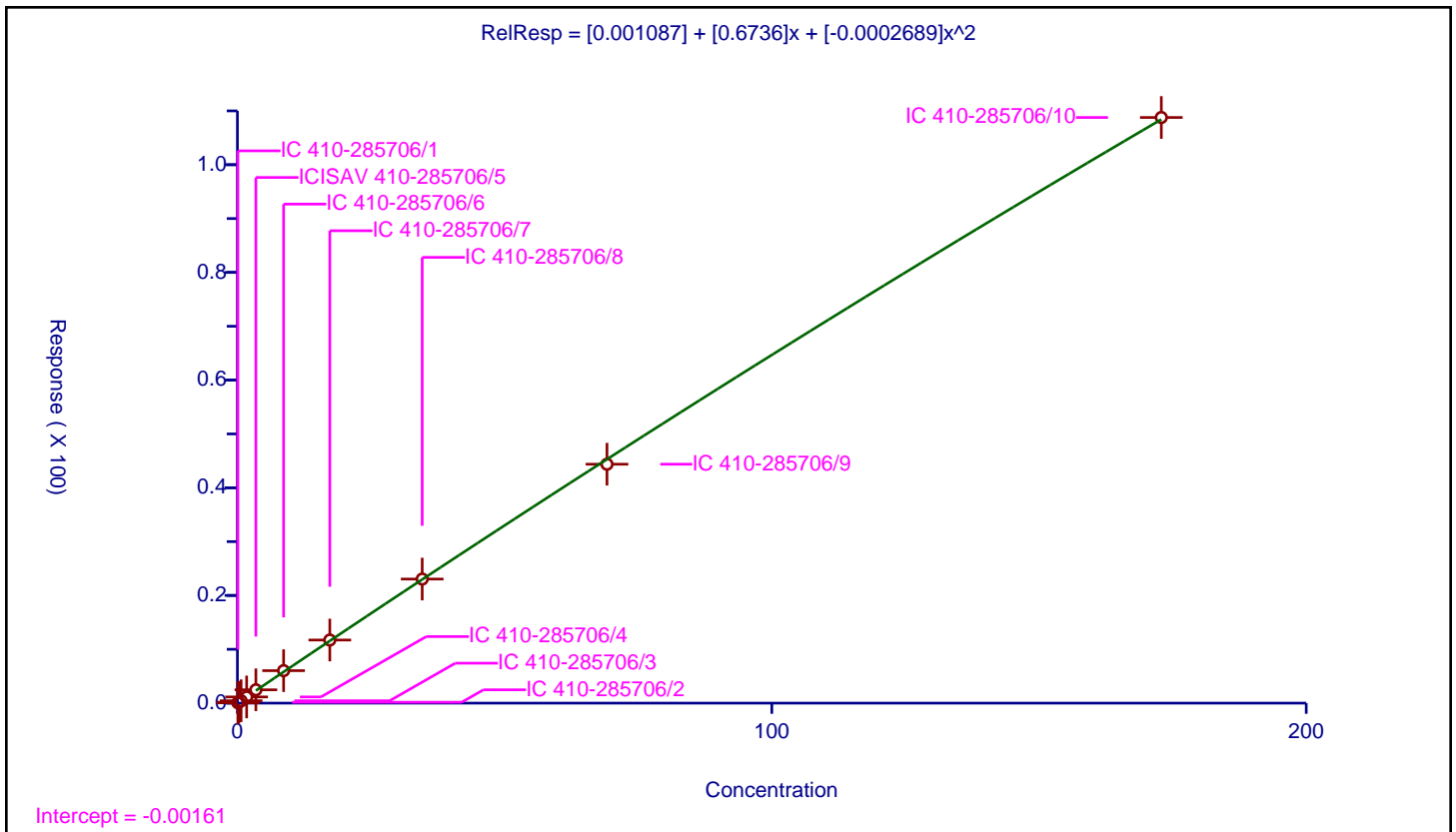
/ BFS_B4

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.001087
Slope:	0.6736
Second Order:	-0.0002689

Error Coefficients	
Standard Error:	5350000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.086443	0.060793	5.0	623591.0	0.703277	Y
2	IC 410-285706/2	0.259328	0.165267	5.0	614007.0	0.63729	Y
3	IC 410-285706/3	0.69154	0.441295	5.0	617591.0	0.638134	Y
4	IC 410-285706/4	1.72885	1.148427	5.0	635578.0	0.664272	Y
5	ICISAV 410-285706/5	3.4577	2.474792	5.0	613094.0	0.715734	Y
6	IC 410-285706/6	8.64425	6.034166	5.0	607823.0	0.698055	Y
7	IC 410-285706/7	17.2885	11.721655	5.0	605647.0	0.678003	Y
8	IC 410-285706/8	34.577	23.044008	5.0	604361.0	0.666455	Y
9	IC 410-285706/9	69.154	44.376709	5.0	623048.0	0.641708	Y
10	IC 410-285706/10	172.885	108.771858	5.0	580678.0	0.629157	Y



Calibration

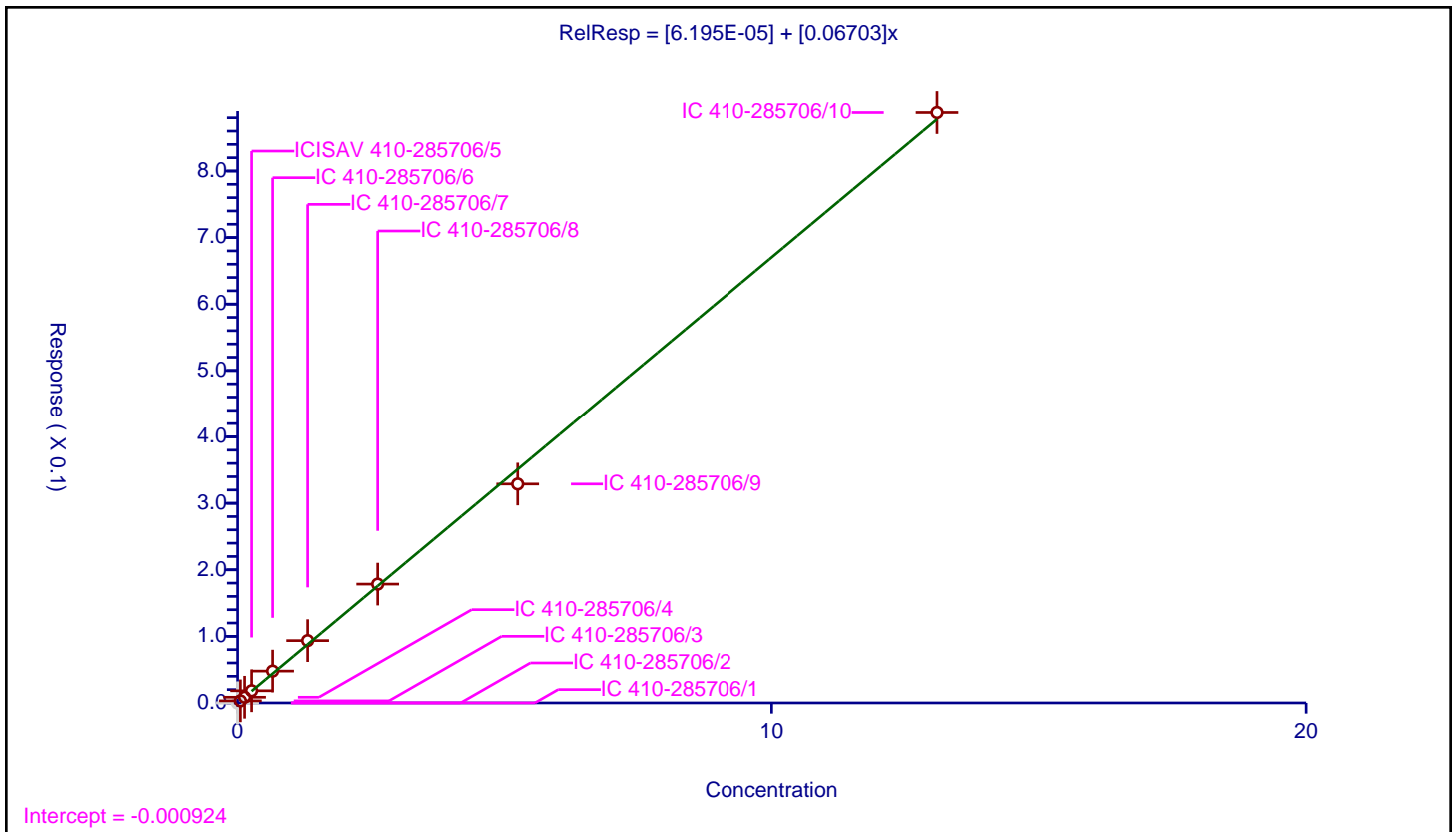
/ BFS_A2B3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	6.195E-05
Slope:	0.06703

Error Coefficients	
Standard Error:	46400
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.0	0.0	5.0	623591.0	NaN	N
2	IC 410-285706/2	0.0	0.0	5.0	614007.0	NaN	N
3	IC 410-285706/3	0.05239	0.003157	5.0	617591.0	0.060268	Y
4	IC 410-285706/4	0.130975	0.008536	5.0	635578.0	0.065169	Y
5	ICISAV 410-285706/5	0.26195	0.018252	5.0	613094.0	0.069676	Y
6	IC 410-285706/6	0.654875	0.047818	5.0	607823.0	0.073019	Y
7	IC 410-285706/7	1.30975	0.093545	5.0	605647.0	0.071422	Y
8	IC 410-285706/8	2.6195	0.178494	5.0	604361.0	0.068141	Y
9	IC 410-285706/9	5.239	0.328996	5.0	623048.0	0.062797	Y
10	IC 410-285706/10	13.0975	0.887807	5.0	580678.0	0.067784	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: ICV 410-283892/12 Calibration Date: 08/09/2022 02:21
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG08BFSCAL-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.060		3.58	4.45	-19.7	30.0
BFS_A3B	Q2ID		1.197		3.99	4.98	-19.9	30.0
BFS_B3	L1ID		0.6874		12.9	15.8	-18.6	30.0
BFS_A2B2	L1ID		0.4995		30.6	34.7	-12.0	30.0
BFS_A4B	L1ID		1.805		2.56	2.75	-7.0	30.0
BFS_AB3	Q2ID		0.7248		35.6	37.2	-4.3	30.0
BFS_A3B2	Q2ID		1.329		6.17	6.55	-5.8	30.0
BFS_B4	L1ID		0.4489		8.50	8.64	-1.7	30.0
BFS_A2B3	Q2ID		0.0351		0.536	0.655	-18.2	30.0
13C3 HFPO-DA	Ave	0.2143	0.2095		4.89	5.00	-2.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Aug-2022 02:21:36 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:12:08 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:45:15

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.961	0.0	0.904	587243	3.58		1387	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.042	0.002	0.923	740934	3.99		49.2	M
3 BFS_B3									M
553.00 > 345.00	4.202	4.201	0.002	0.959	1354917	12.9		73.9	M
4 BFS_A2B2									M
569.00 > 229.00	4.307	4.305	0.002	0.983	2156612	30.6		109	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.382	4.388	-0.006	0.877	621920	4.89	97.8	271	
5 BFS_A4B									
585.00 > 113.00	4.390	4.388	0.002	1.002	617681	2.56		181	
7 BFS_AB3									
619.00 > 229.00	4.566	4.564	0.002	1.042	3353534	35.6		189	
8 BFS_A3B2									
635.00 > 113.00	4.660	4.671	-0.011	1.063	1082307	6.17		199	
9 BFS_B4									
669.00 > 461.00	4.805	4.804	0.001	1.097	482641	8.50		206	
10 BFS_A2B3									M
685.00 > 571.00	4.907	4.907	0.0	1.120	2856	0.5355		60.7	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.001		2968895	5.00		327	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_BFS_00006

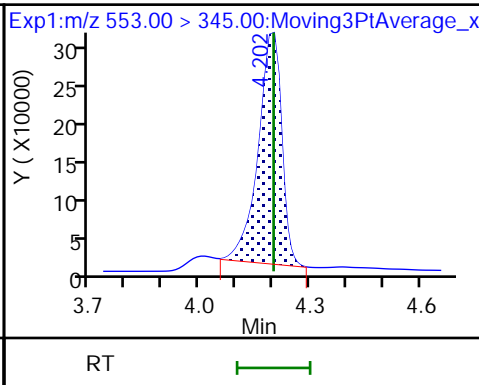
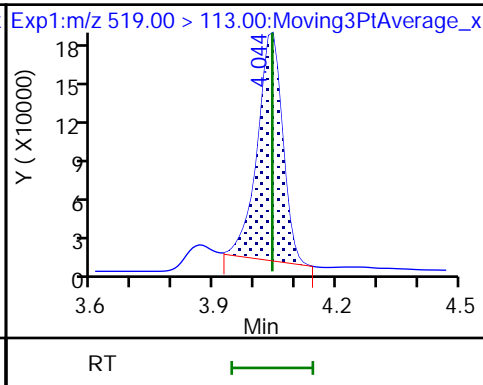
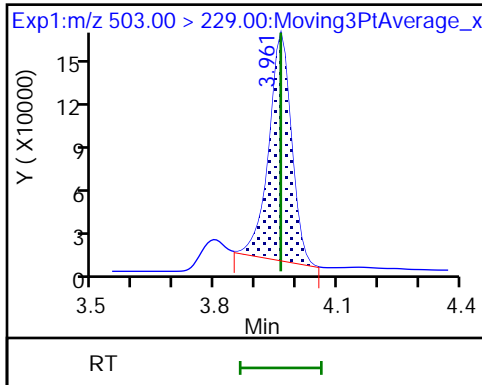
Amount Added: 200.00

Units: uL

1 BFS_AB2 (M)

2 BFS_A3B (M)

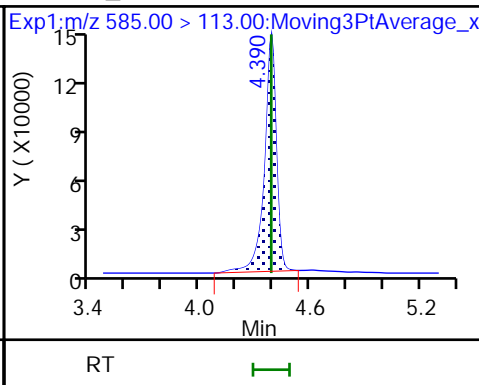
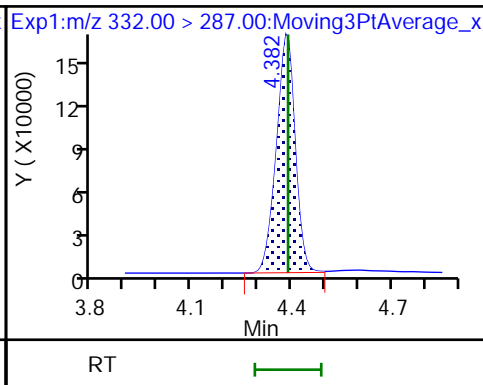
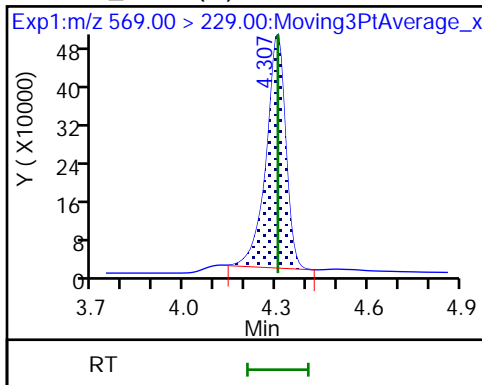
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

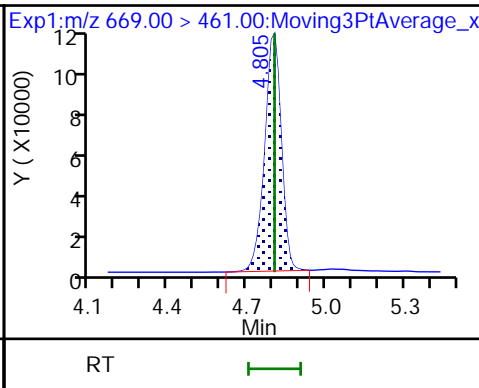
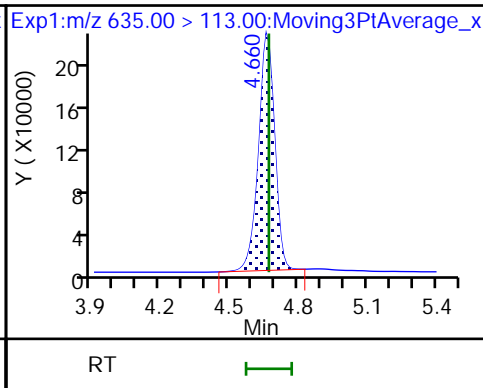
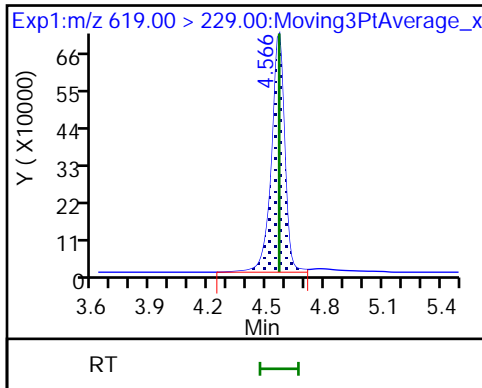
5 BFS_A4B



7 BFS_AB3

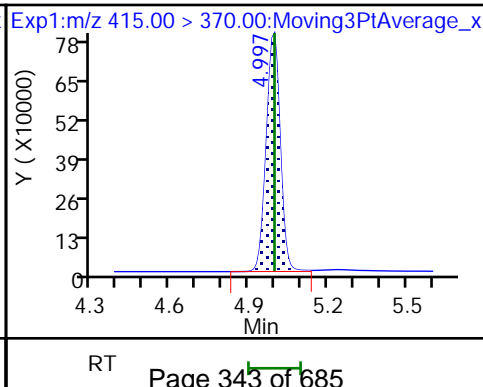
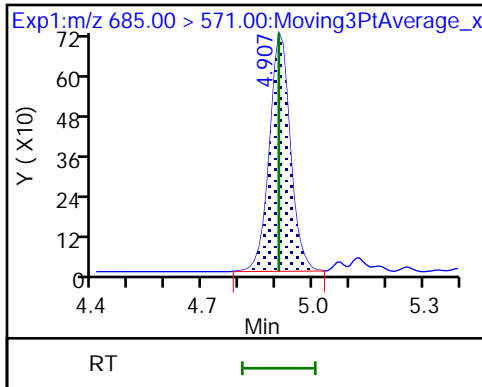
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

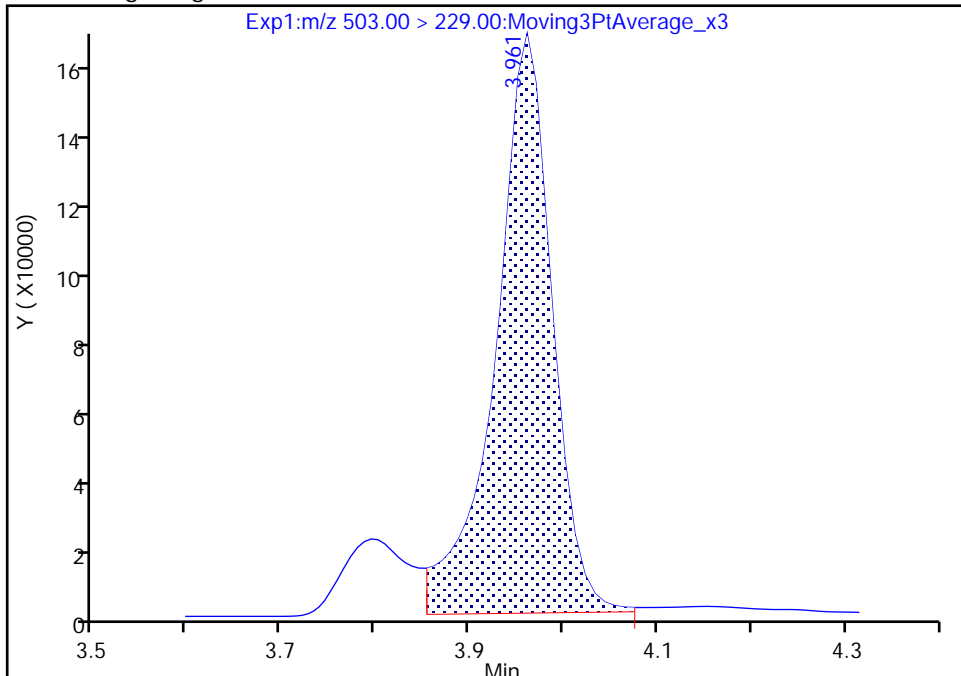
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

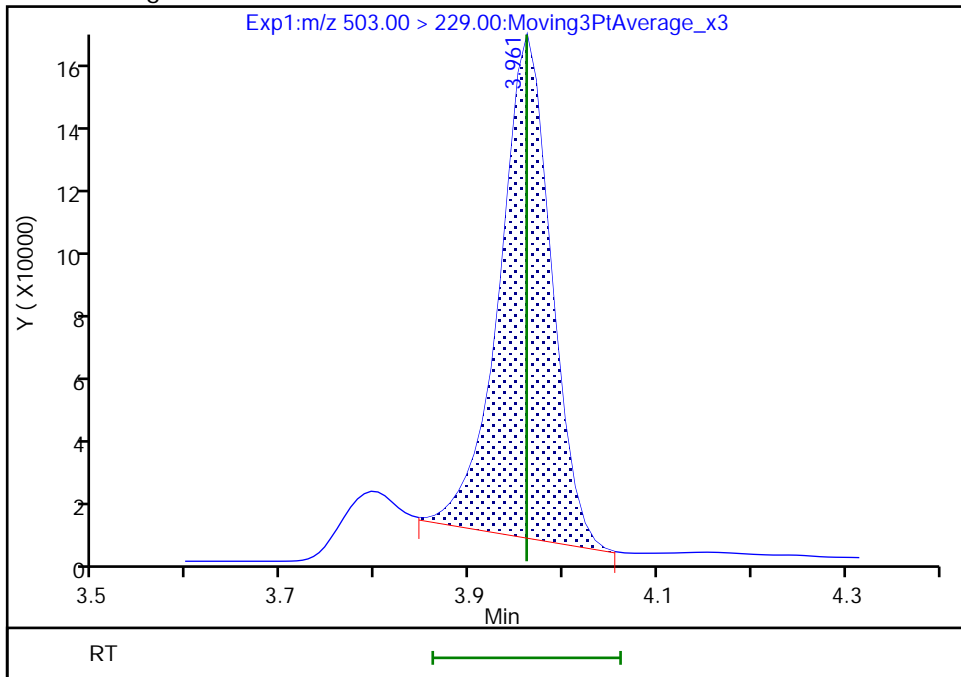
RT: 3.96
Area: 666371
Amount: 3.775641
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 587243
Amount: 3.575015
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:45:10
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

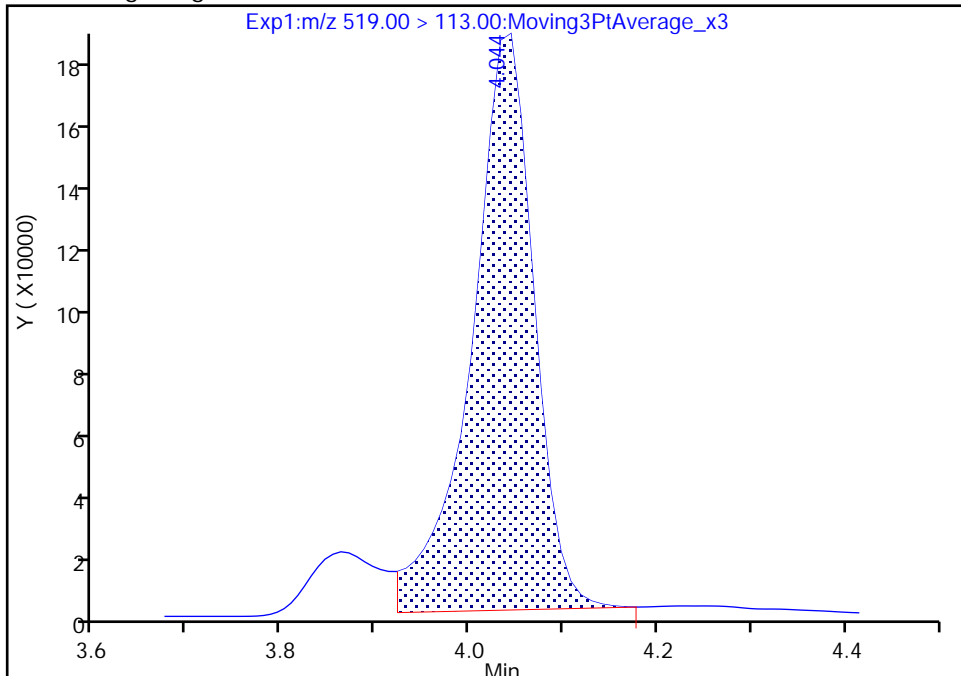
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

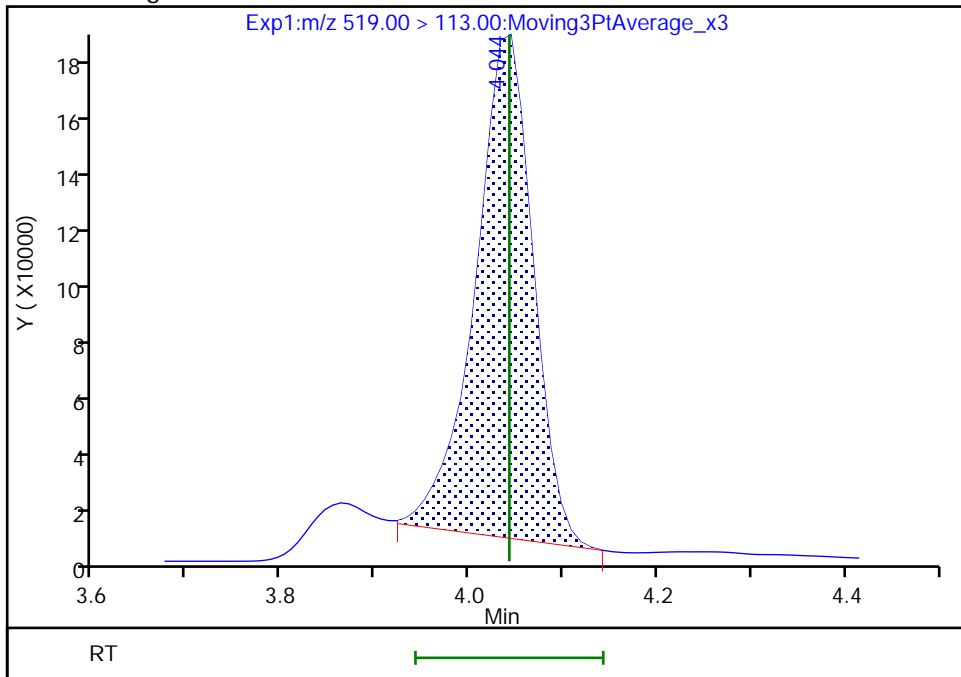
RT: 4.04
Area: 826222
Amount: 4.032769
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 740934
Amount: 3.986105
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:45:06
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

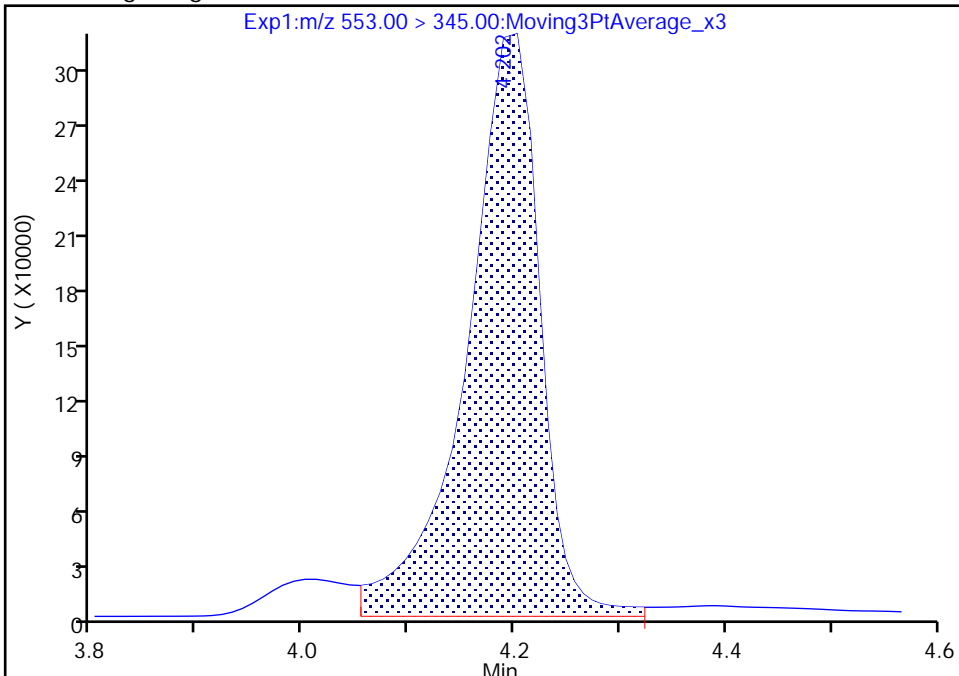
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Injection Date:	09-Aug-2022 02:21:36	Instrument ID:	30733
Lims ID:	ICV		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	12
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

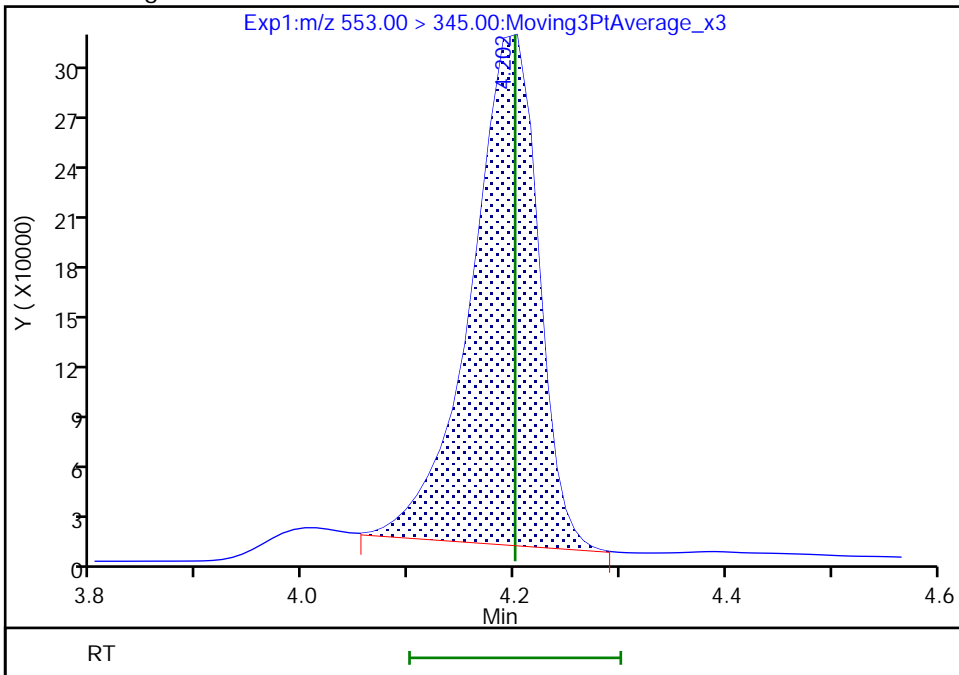
RT: 4.20
 Area: 1513716
 Amount: 14.400461
 Amount Units: ng/ml

Processing Integration Results



RT: 4.20
 Area: 1354917
 Amount: 12.893127
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:51
 Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

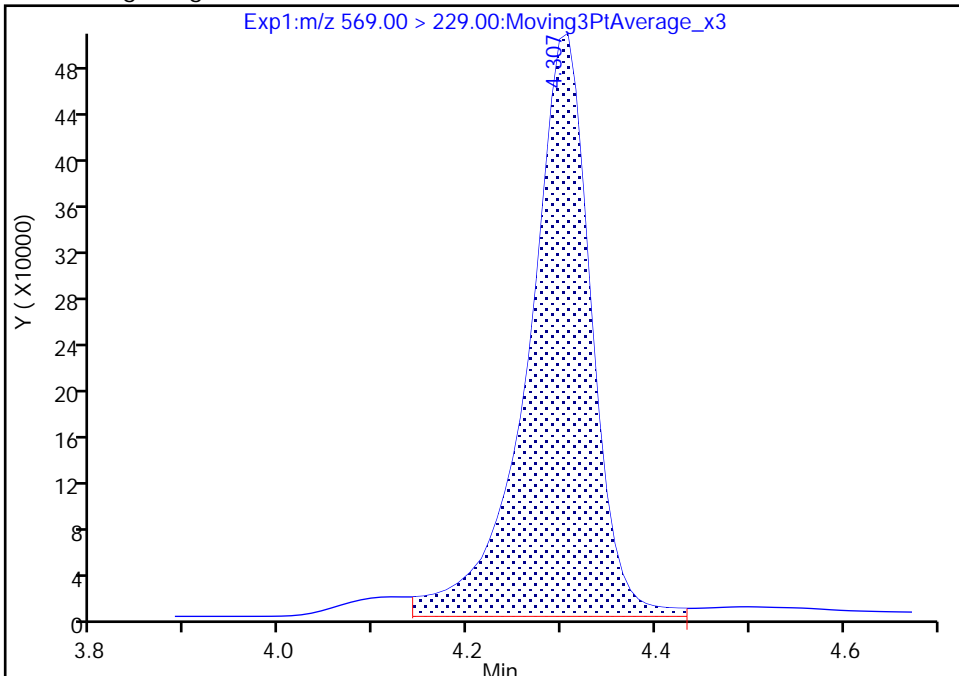
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

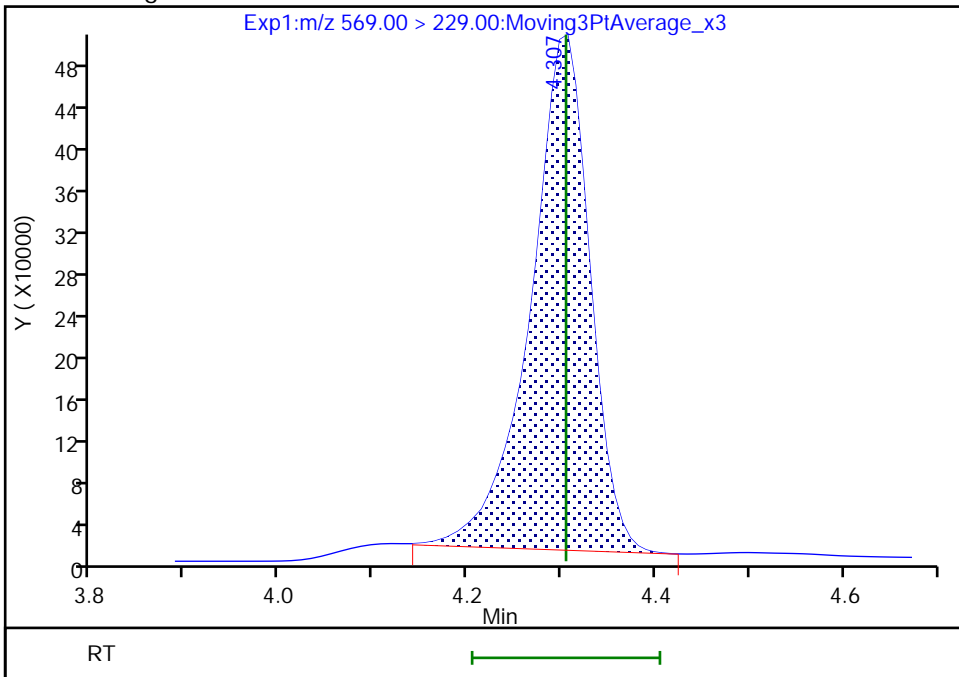
RT: 4.31
Area: 2350115
Amount: 33.297611
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 2156612
Amount: 30.551489
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:55
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

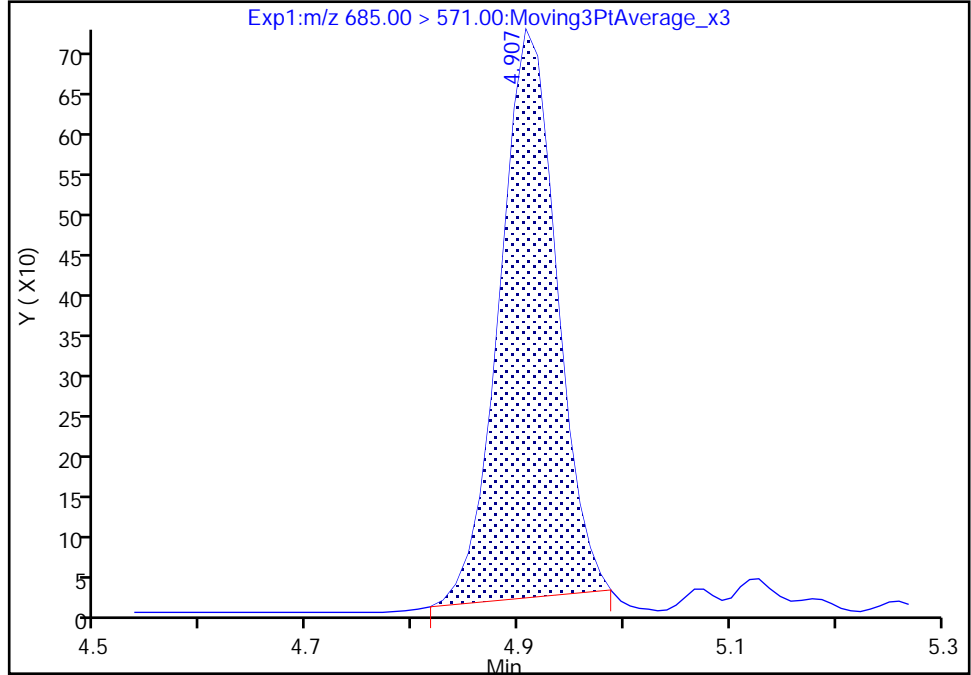
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Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

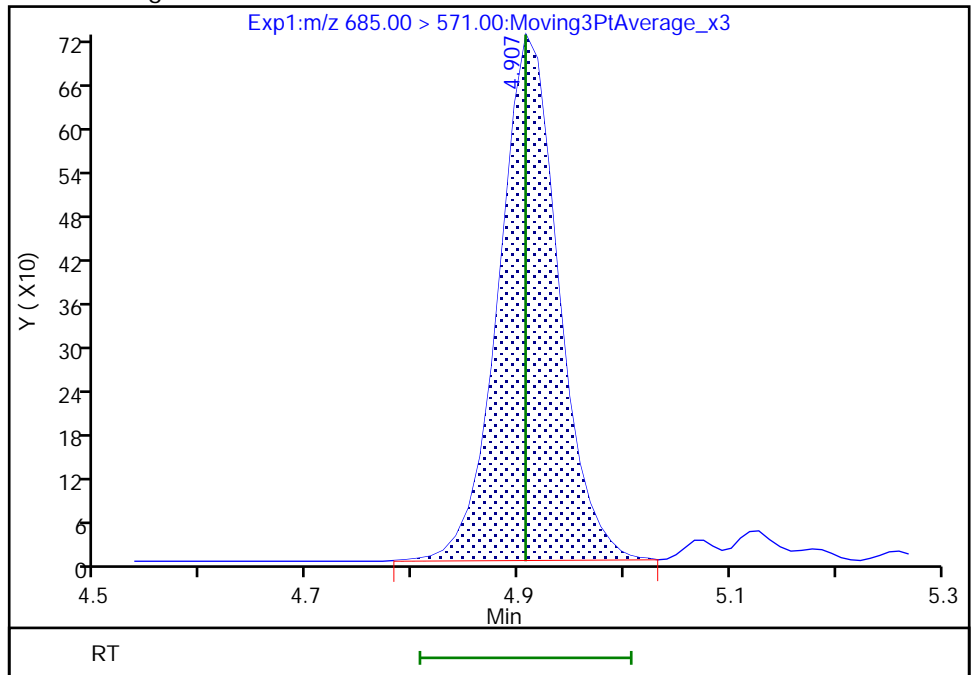
RT: 4.91
Area: 2660
Amount: 0.484100
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 2856
Amount: 0.535505
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:45
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283897/1 Calibration Date: 08/09/2022 02:46
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.171		0.0414	0.0445	-7.0	50.0
BFS_A3B	Q2ID		1.212		0.0450	0.0498	-9.6	50.0
BFS_B3	L1ID		0.6098		0.146	0.158	-7.7	50.0
BFS_A2B2	L1ID		0.5123		0.260	0.347	-25.2	50.0
BFS_A4B	L1ID		1.674		0.0277	0.0275	0.8	50.0
BFS_AB3	Q2ID		0.7129		0.360	0.372	-3.1	50.0
BFS_A3B2	Q2ID		1.286		0.0639	0.0655	-2.4	50.0
BFS_B4	L1ID		0.5210		0.0922	0.0864	6.7	50.0
BFS_A2B3	Q2ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2143	0.2148		5.01	5.00	0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 09-Aug-2022 02:46:45 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:43 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:03:01

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.960	3.960	0.0	0.903	7006	0.0414	93.0	148	M
2 BFS_A3B									M
519.00 > 113.00	4.042	4.042	0.0	0.921	8105	0.0450	90.4	36.8	M
3 BFS_B3									
553.00 > 345.00	4.200	4.200	0.0	0.957	12985	0.1462	92.3	30.4	
4 BFS_A2B2									
569.00 > 229.00	4.304	4.304	0.0	0.981	23890	0.2595	74.8	108	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.388	0.0	0.880	671844	5.01	100	280	
5 BFS_A4B									M
585.00 > 113.00	4.388	4.388	0.0	1.000	6186	0.0277	101	55.7	M
7 BFS_AB3									
619.00 > 229.00	4.564	4.564	0.0	1.040	35631	0.3604	96.9	167	
8 BFS_A3B2									
635.00 > 113.00	4.657	4.657	0.0	1.061	11313	0.0639	97.6	99.9	
9 BFS_B4									M
669.00 > 461.00	4.793	4.793	0.0	1.092	6052	0.0922	107	18.6	M
* 11 13C2 PFOA									
415.00 > 370.00	4.988	4.988	0.0		3128234	5.00		325	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d

Injection Date: 09-Aug-2022 02:46:45

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

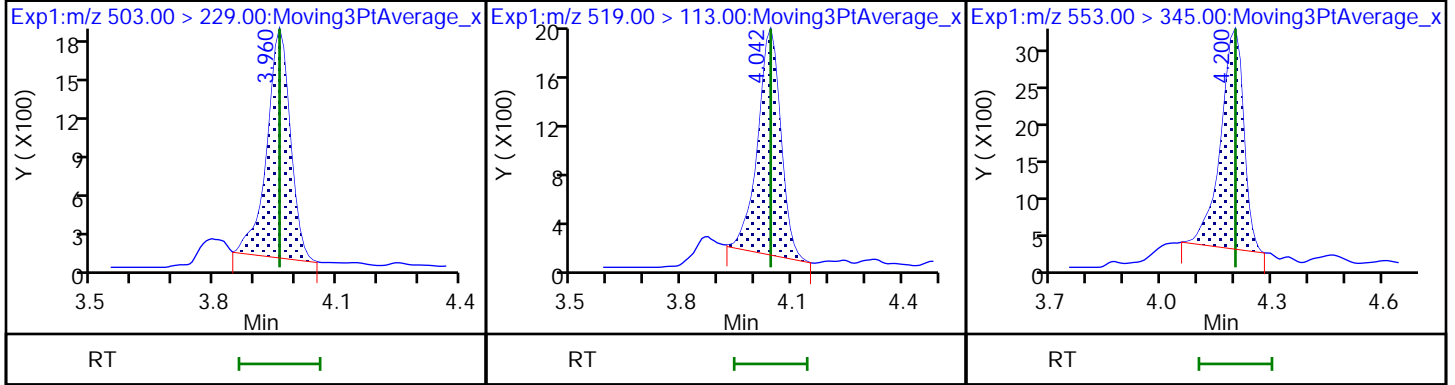
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

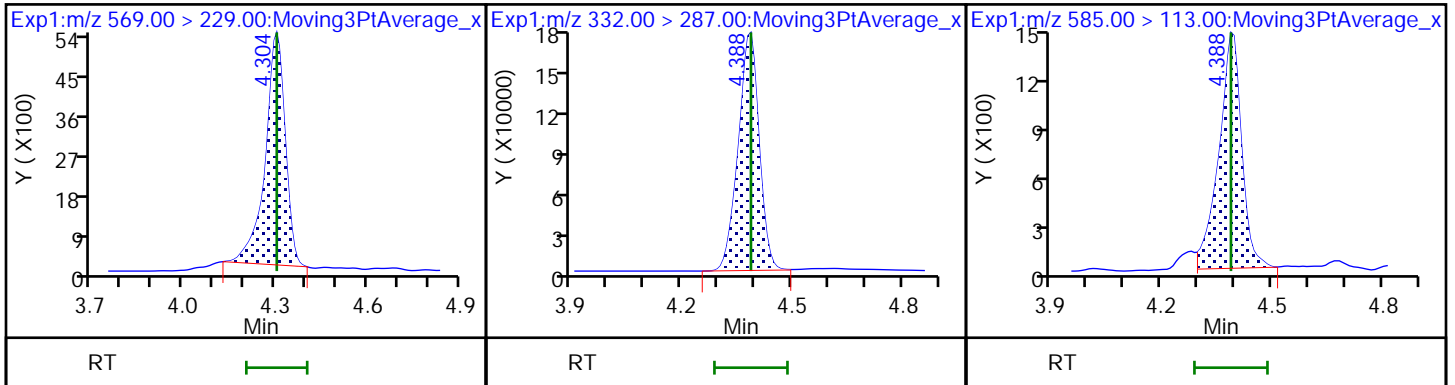
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

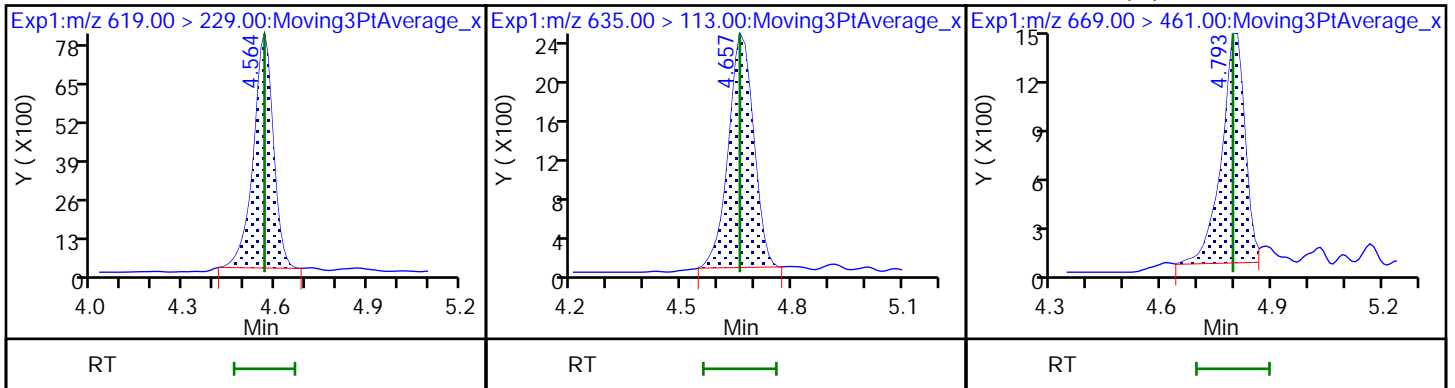
5 BFS_A4B (M)



7 BFS_AB3

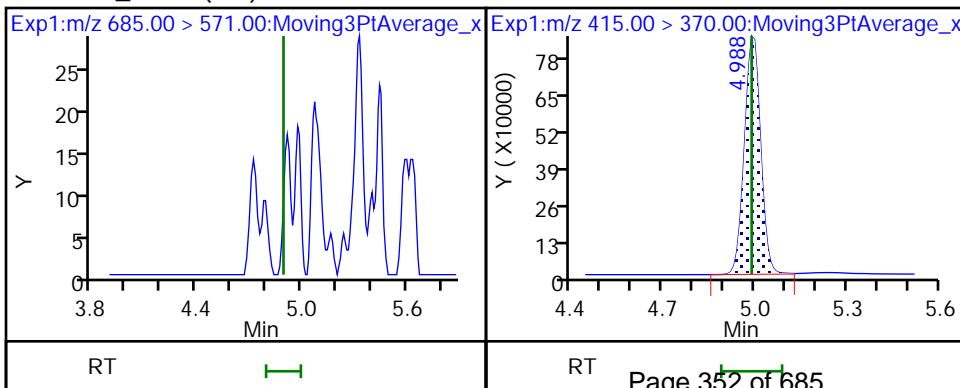
8 BFS_A3B2

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

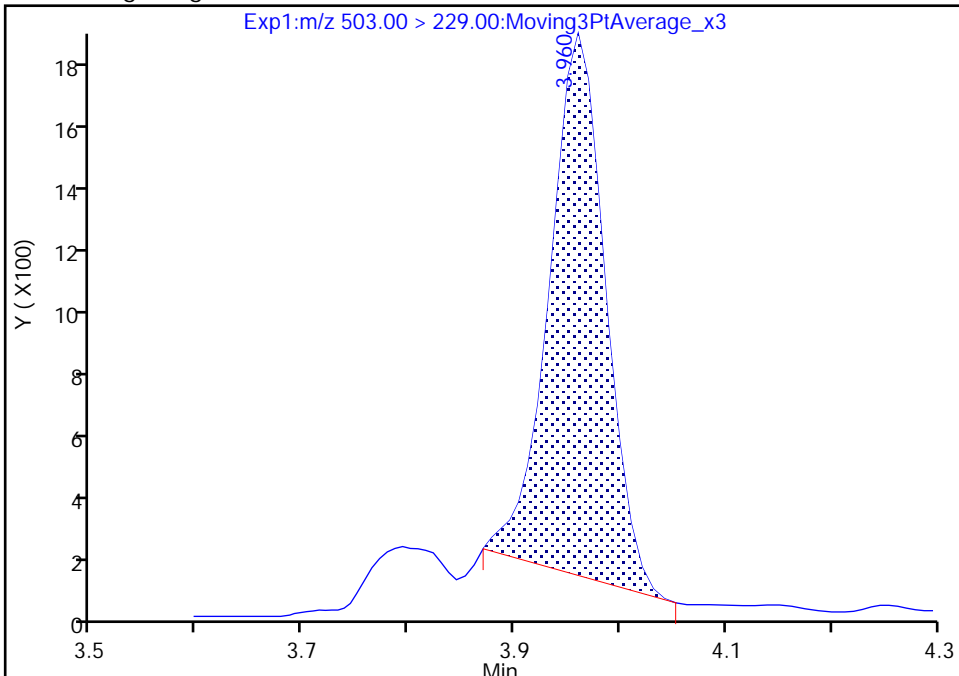
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

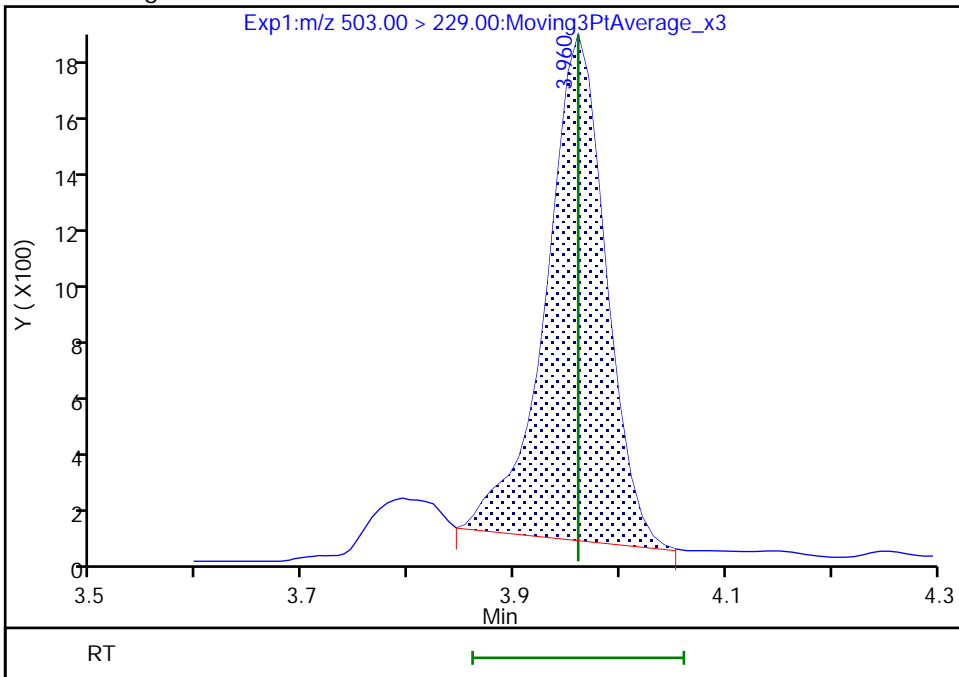
RT: 3.96
Area: 6323
Amount: 0.037565
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 7006
Amount: 0.041431
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:00
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

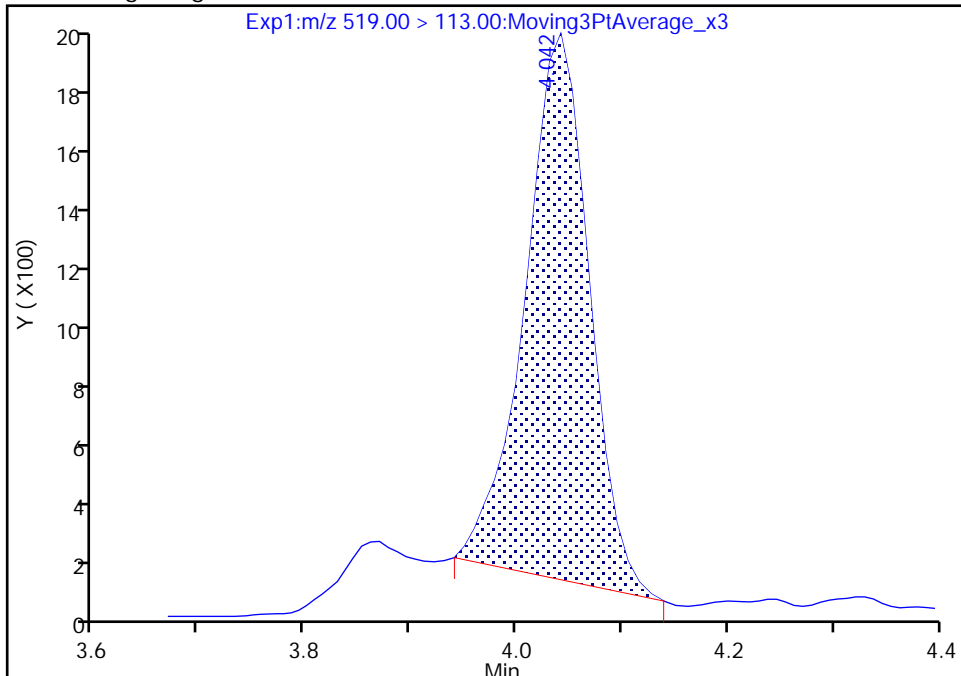
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

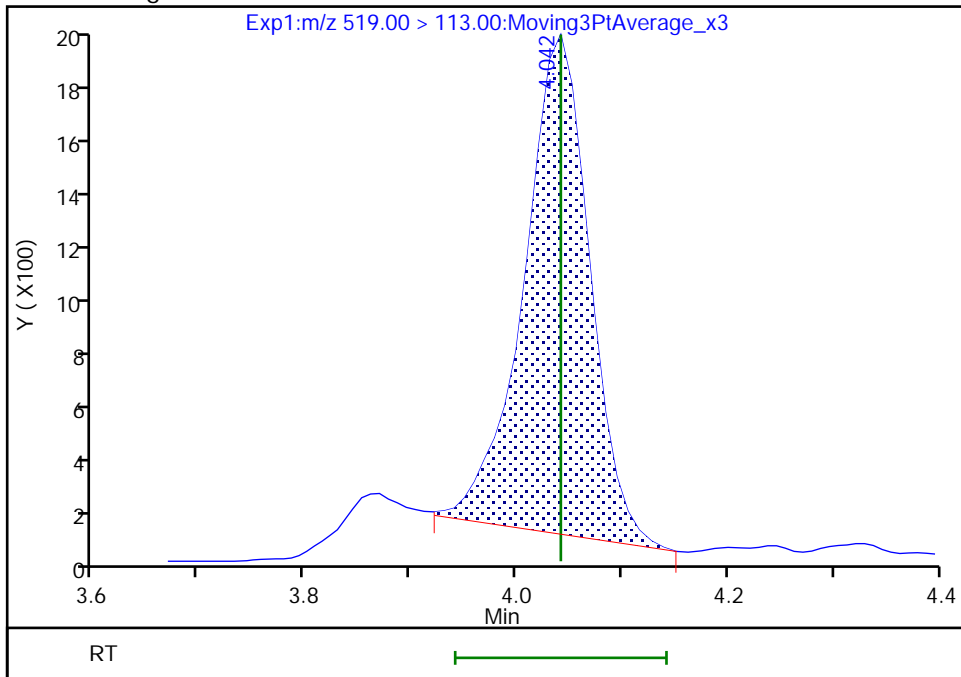
RT: 4.04
Area: 7798
Amount: 0.103994
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 8105
Amount: 0.044974
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:05
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

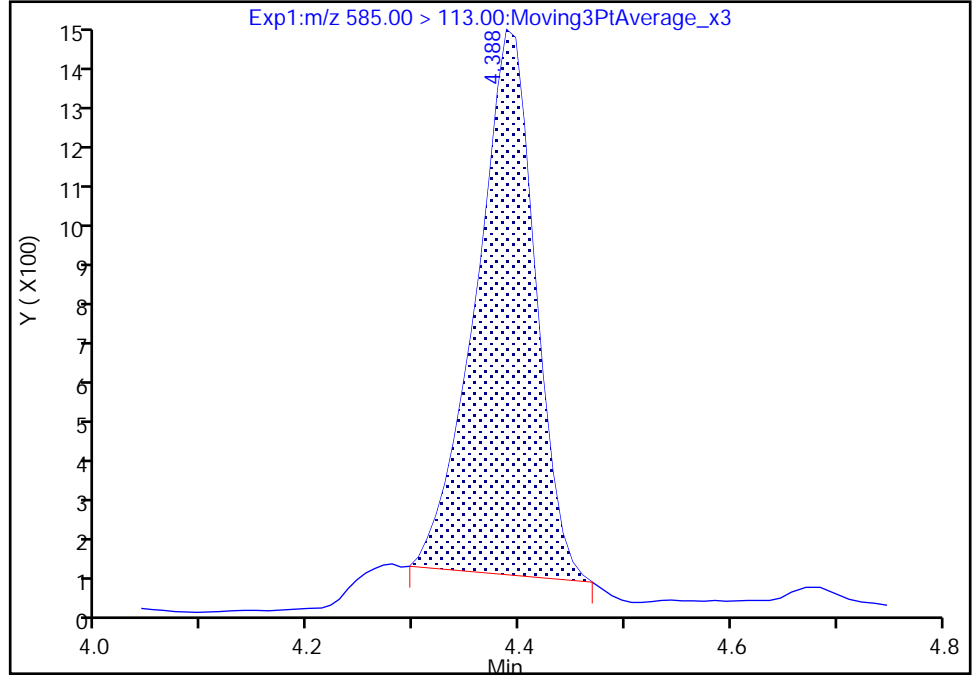
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

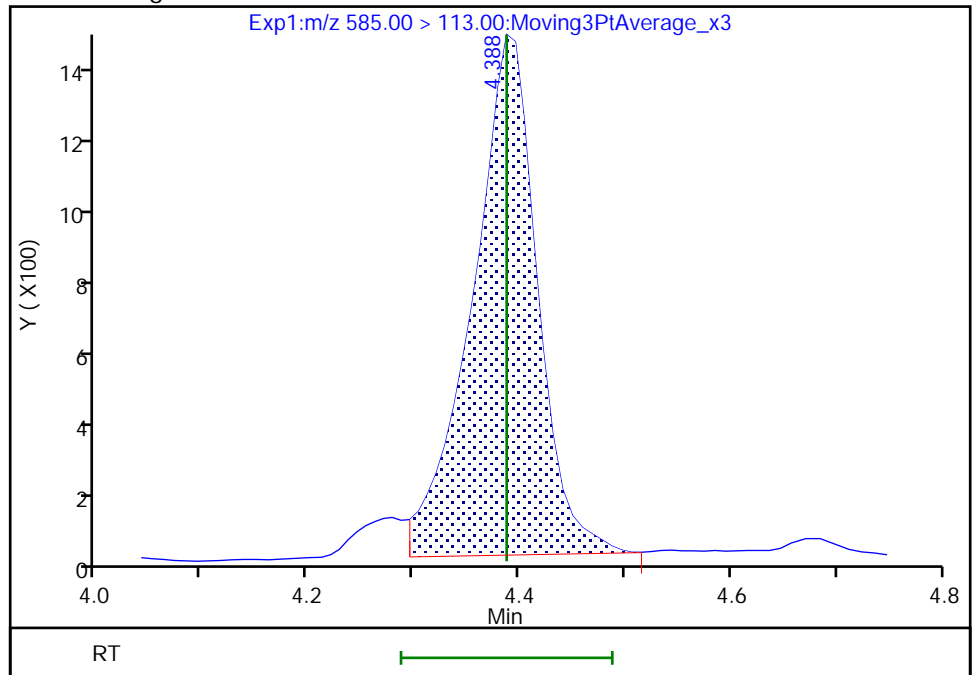
RT: 4.39
Area: 5312
Amount: 0.024389
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 6186
Amount: 0.027733
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:19
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

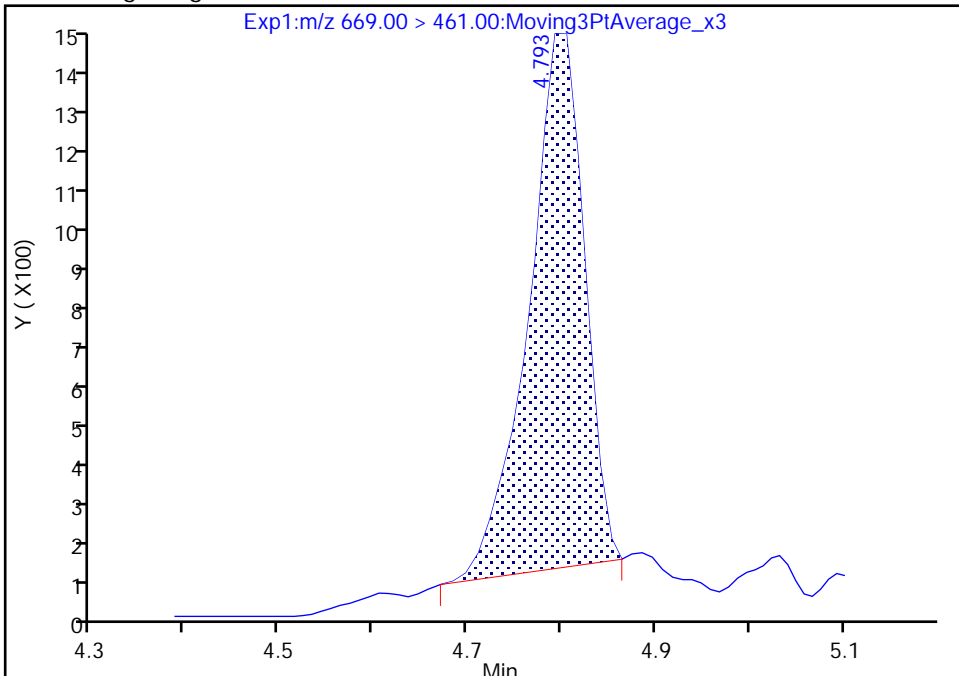
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d		
Injection Date:	09-Aug-2022 02:46:45	Instrument ID:	30733
Lims ID:	CCVL 1_CAL1		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	2
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	1

9 BFS_B4, CAS: STL02886

Signal: 1

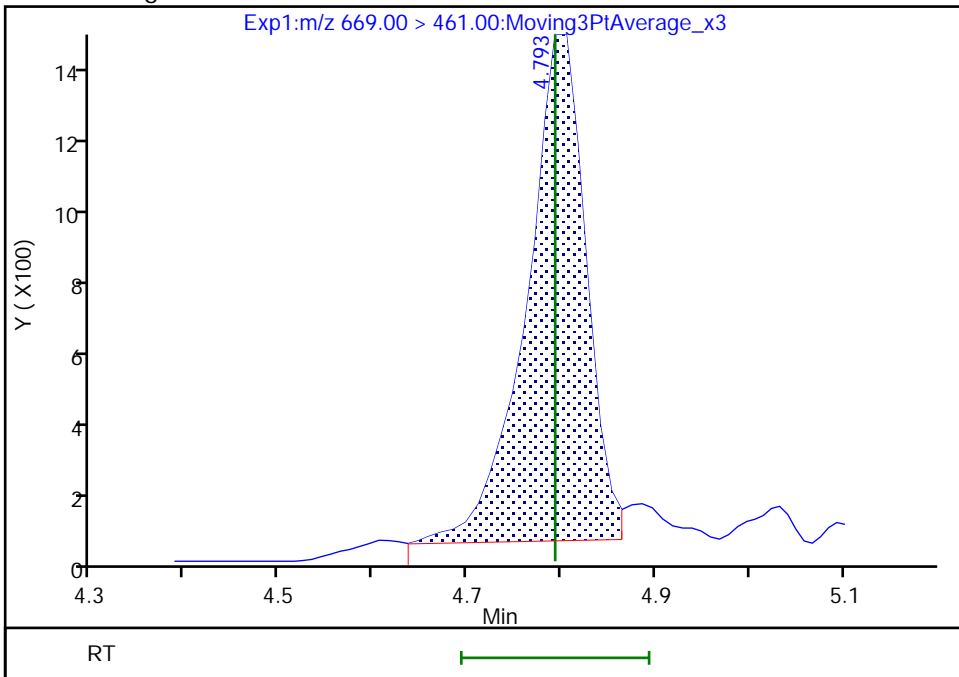
RT: 4.79
 Area: 5384
 Amount: 0.081313
 Amount Units: ng/ml

Processing Integration Results



RT: 4.79
 Area: 6052
 Amount: 0.092213
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:26
 Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/2 Calibration Date: 08/09/2022 02:59
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.145		1.55	1.78	-13.0	30.0
BFS_A3B	Q2ID		1.297		1.74	1.99	-12.8	30.0
BFS_B3	L1ID		0.7500		5.65	6.34	-10.9	30.0
BFS_A2B2	L1ID		0.5411		13.2	13.9	-4.9	30.0
BFS_A4B	L1ID		1.953		1.11	1.10	0.8	30.0
BFS_AB3	Q2ID		0.7727		15.1	14.9	1.7	30.0
BFS_A3B2	Q2ID		1.438		2.67	2.62	1.9	30.0
BFS_B4	L1ID		0.4757		3.60	3.46	4.1	30.0
BFS_A2B3	Q2ID		0.0409		0.246	0.262	-6.0	30.0
13C3 HFPO-DA	Ave	0.2143	0.2184		5.10	5.00	1.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
 Lims ID: CCV 2_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 02:59:22 ALS Bottle#: 6 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:44 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:46:39

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.961	0.0	0.903	271238	1.55	87.0	1185	M
2 BFS_A3B									M
519.00 > 113.00	4.043	4.043	0.0	0.921	343340	1.74	87.2	47.4	M
3 BFS_B3									M
553.00 > 345.00	4.201	4.201	0.0	0.957	632368	5.65	89.1	66.5	M
4 BFS_A2B2									M
569.00 > 229.00	4.305	4.305	0.0	0.981	999269	13.2	95.1	103	M
5 BFS_A4B									
585.00 > 113.00	4.389	4.389	0.0	1.000	285863	1.11	101	150	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.389	4.389	0.0	0.878	665079	5.10	102	271	
7 BFS_AB3									M
619.00 > 229.00	4.565	4.565	0.0	1.040	1529179	15.1	102	196	M
8 BFS_A3B2									
635.00 > 113.00	4.658	4.658	0.0	1.061	501127	2.67	102	193	
9 BFS_B4									
669.00 > 461.00	4.793	4.793	0.0	1.092	218786	3.60	104	167	
10 BFS_A2B3									M
685.00 > 571.00	4.918	4.918	0.0	1.121	1426	0.2463	94.0	29.5	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.0		3045624	5.00		331	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d

Injection Date: 09-Aug-2022 02:59:22

Instrument ID: 30733

Lims ID: CCV_2_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

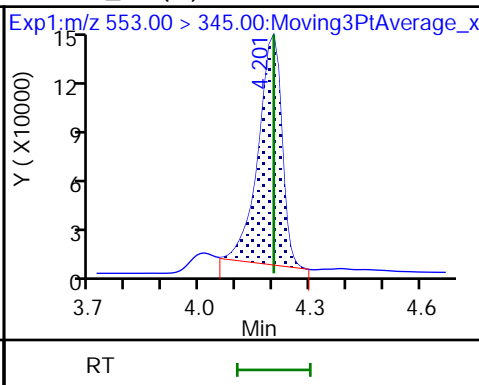
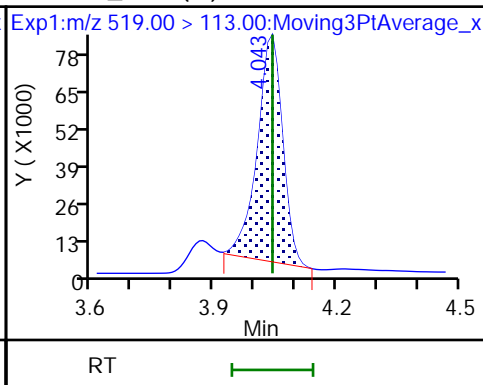
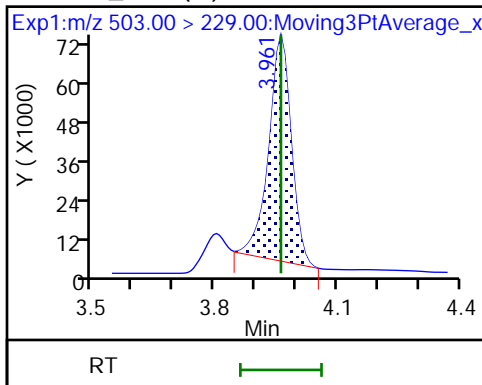
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

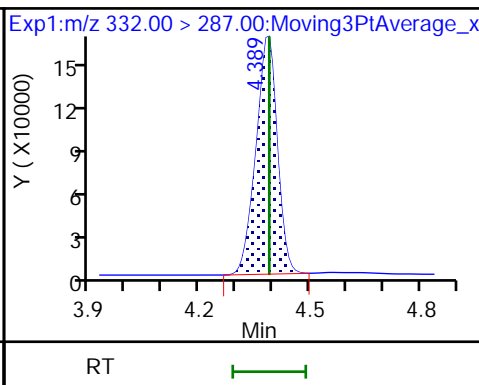
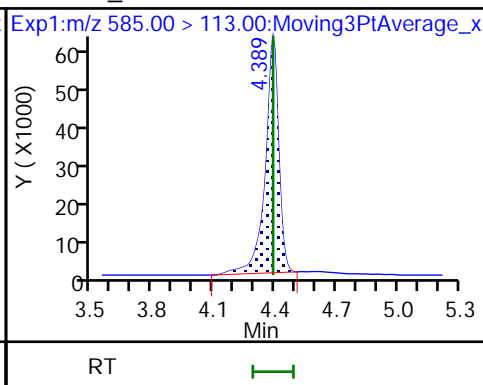
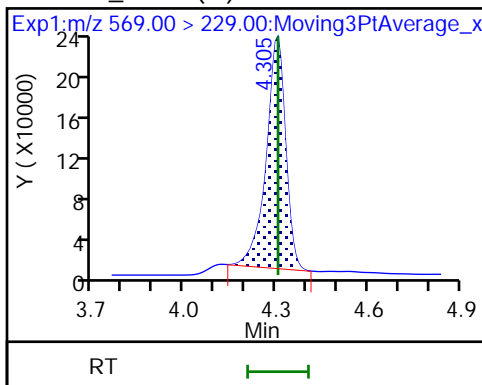
3 BFS_B3 (M)



4 BFS_A2B2 (M)

5 BFS_A4B

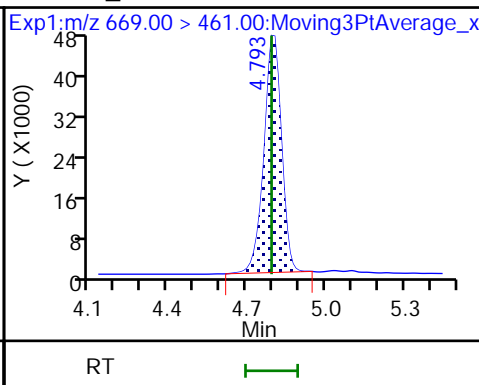
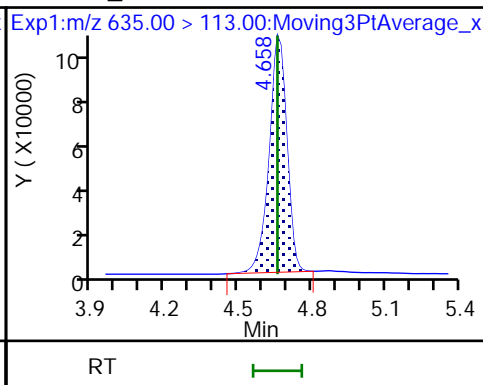
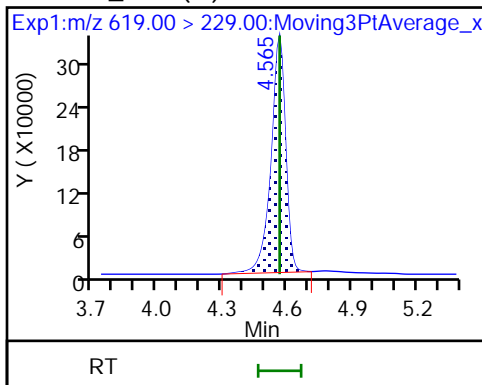
D 6 13C3 HFPO-DA



7 BFS_AB3 (M)

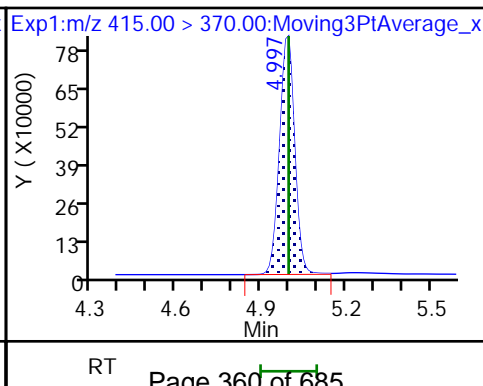
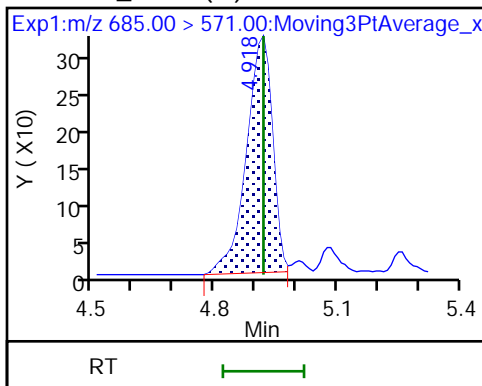
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

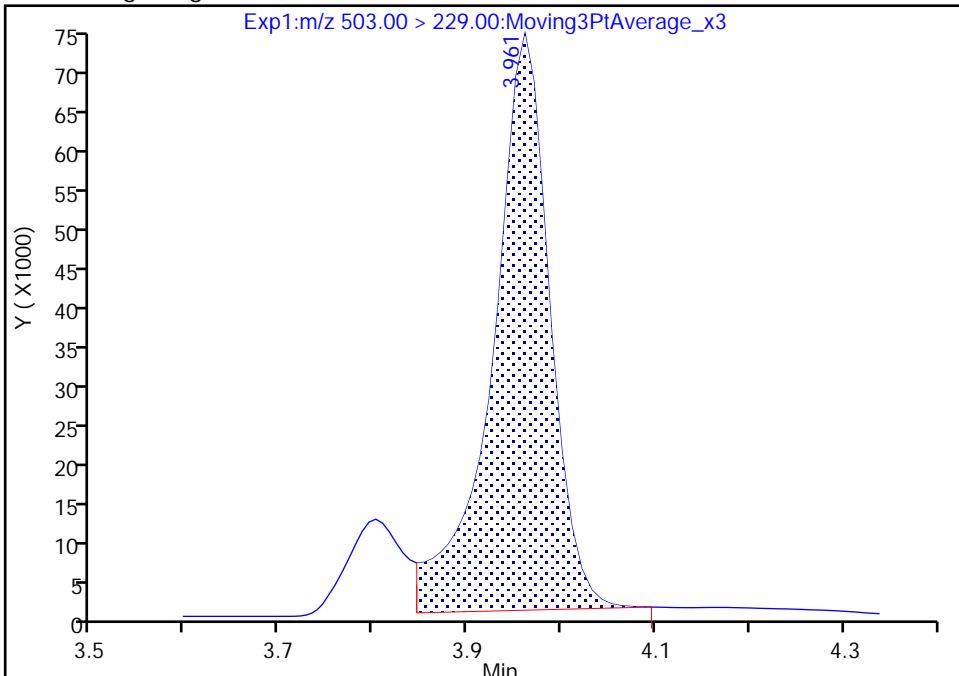
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Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

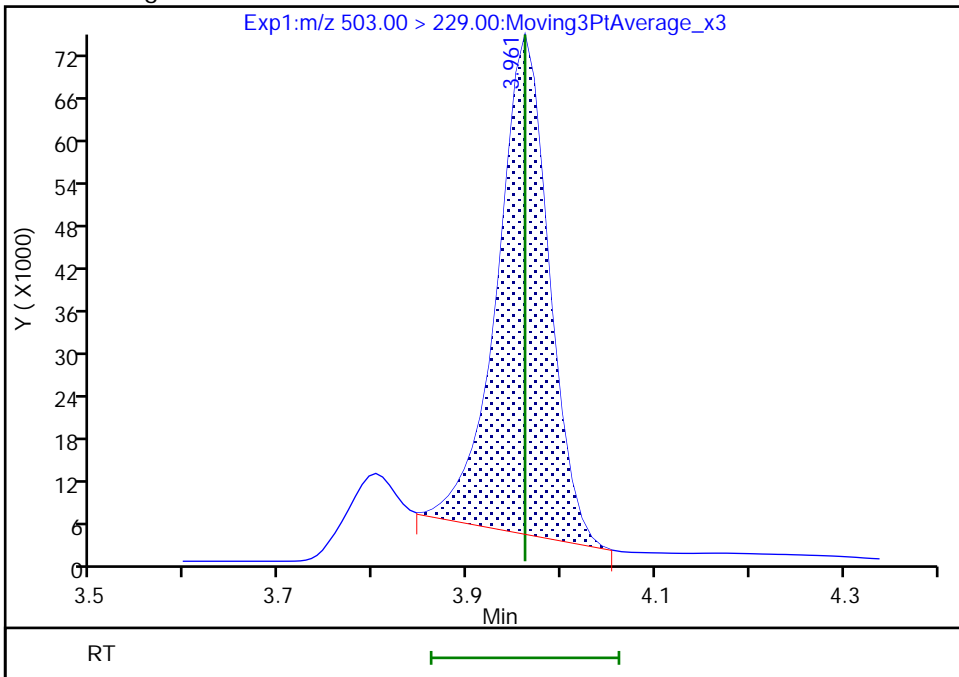
RT: 3.96
Area: 313273
Amount: 1.788646
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 271238
Amount: 1.549392
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:41
Audit Action: Manually Integrated

Audit Reason: Baseline
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Euofins Lancaster Laboratories Environment Testing, LLC

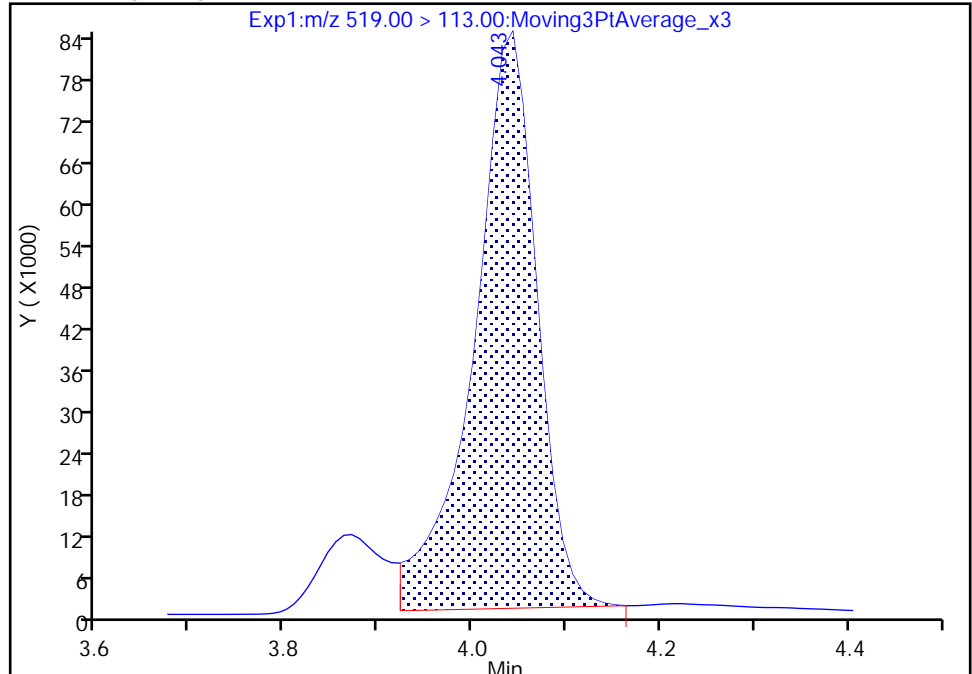
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

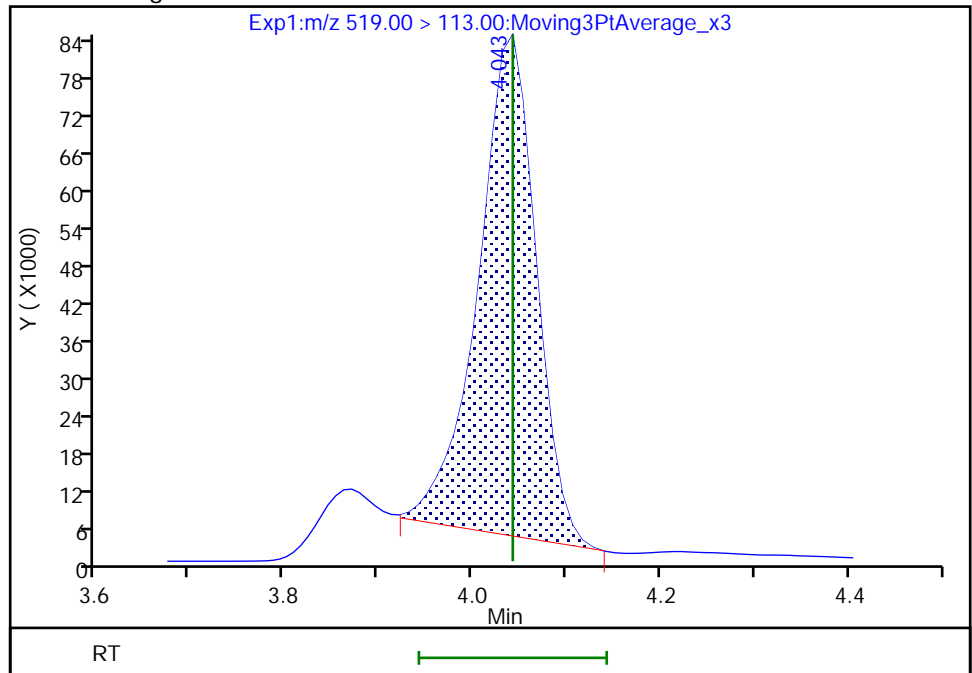
RT: 4.04
Area: 388685
Amount: 1.964287
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 343340
Amount: 1.736308
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:46
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

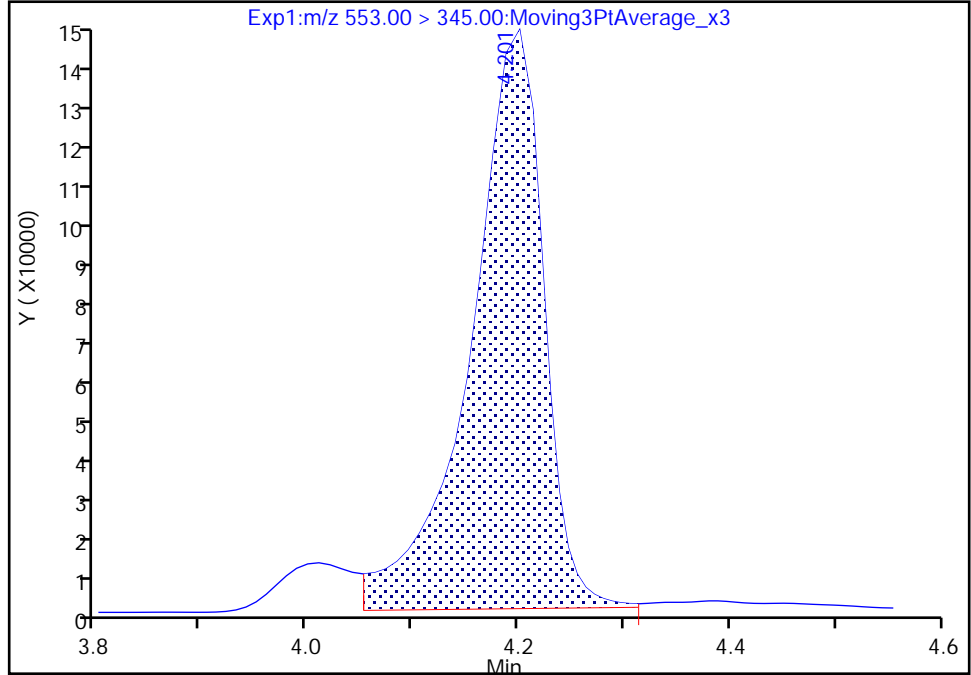
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

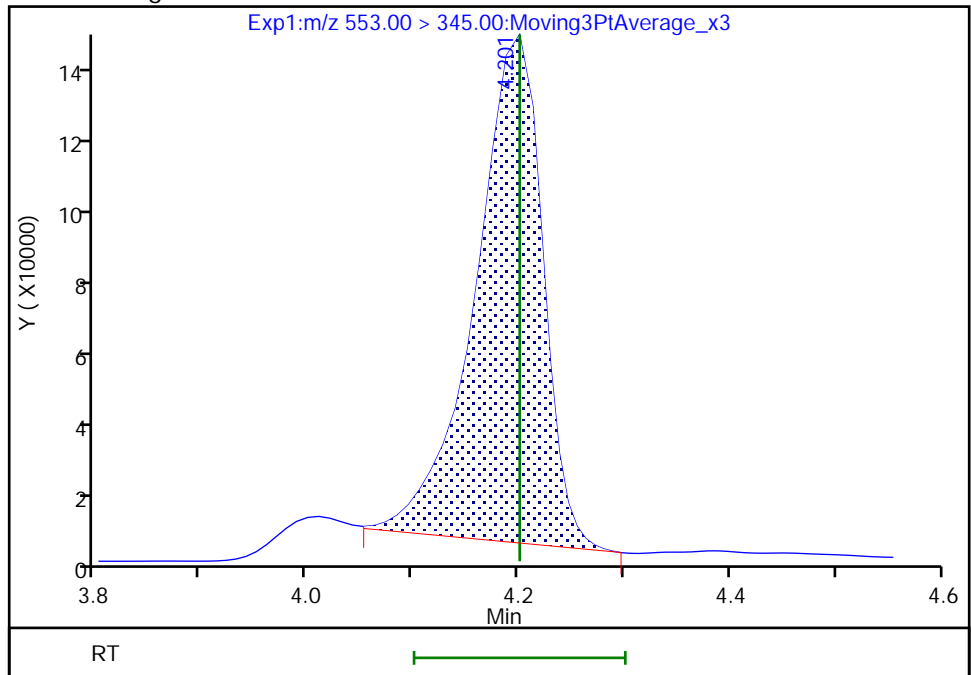
RT: 4.20
Area: 705928
Amount: 6.298037
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 632368
Amount: 5.645110
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:51
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

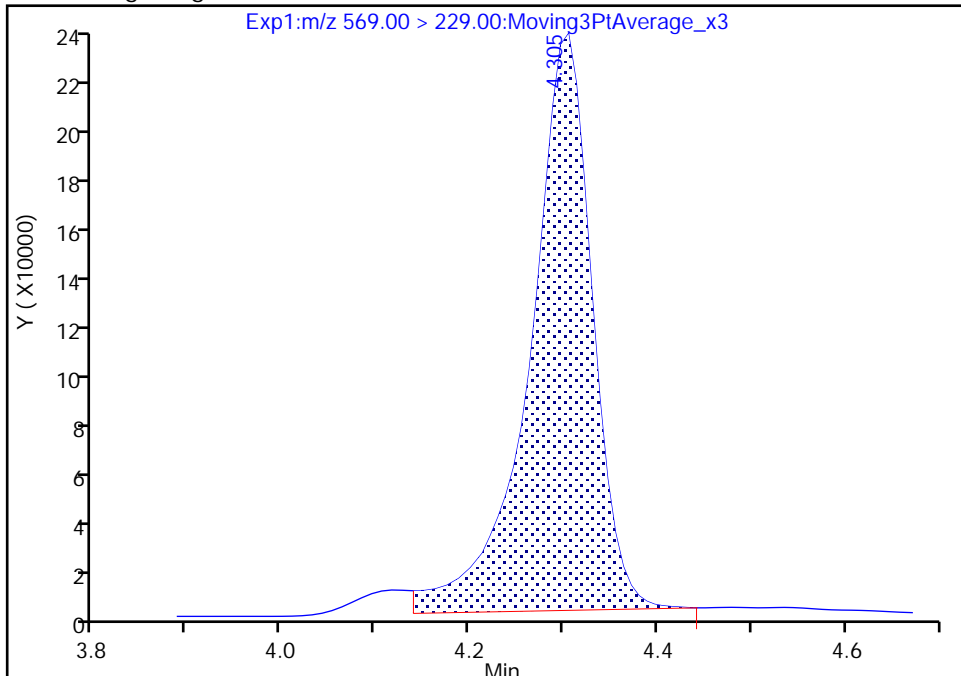
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

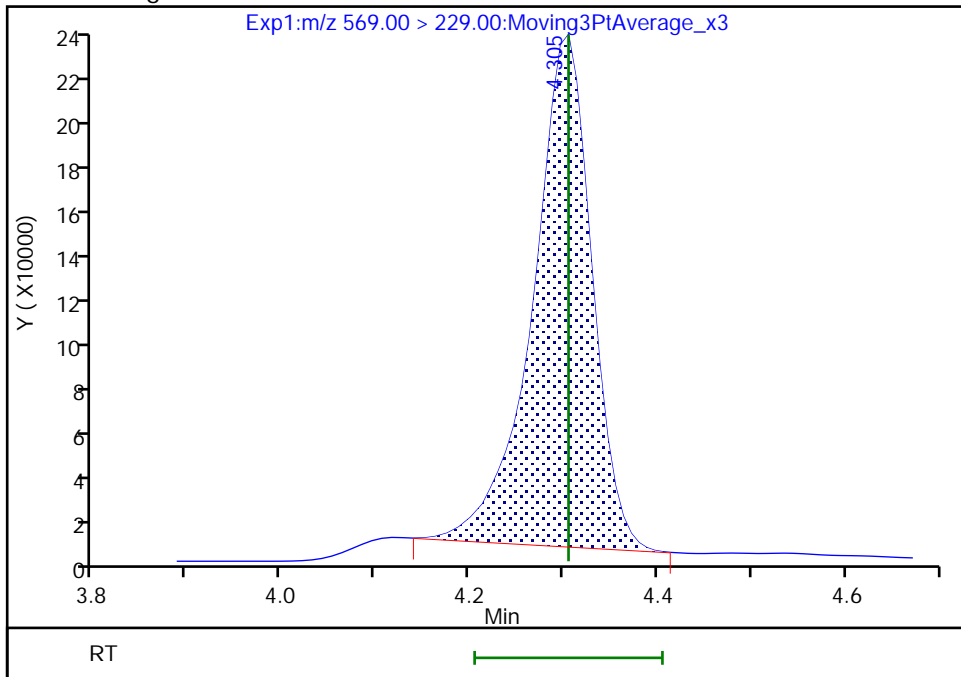
RT: 4.31
Area: 1077972
Amount: 14.251089
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 999269
Amount: 13.206646
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:58
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

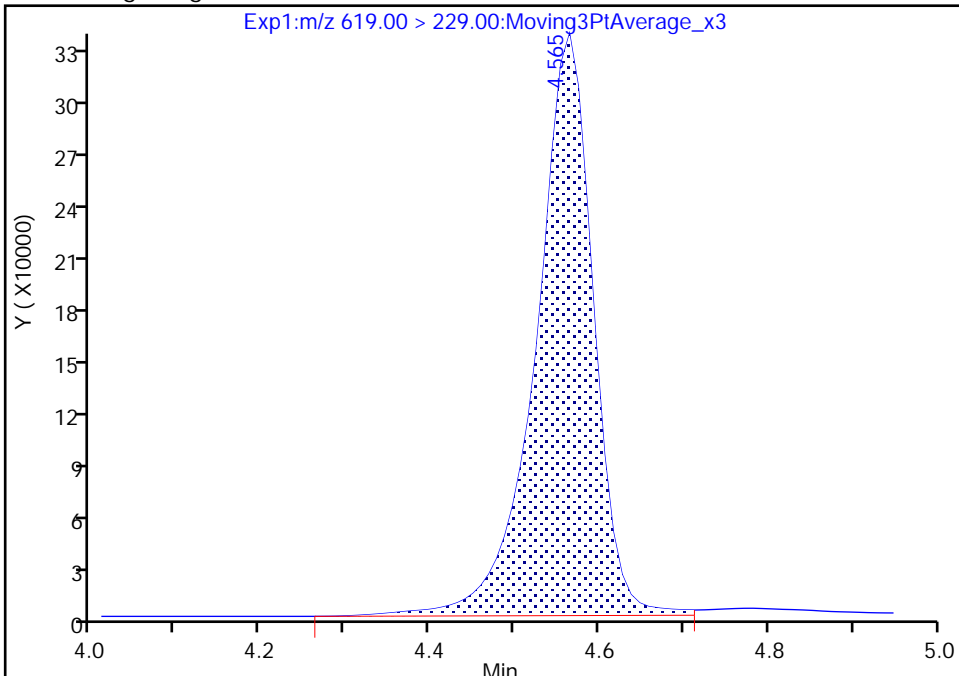
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

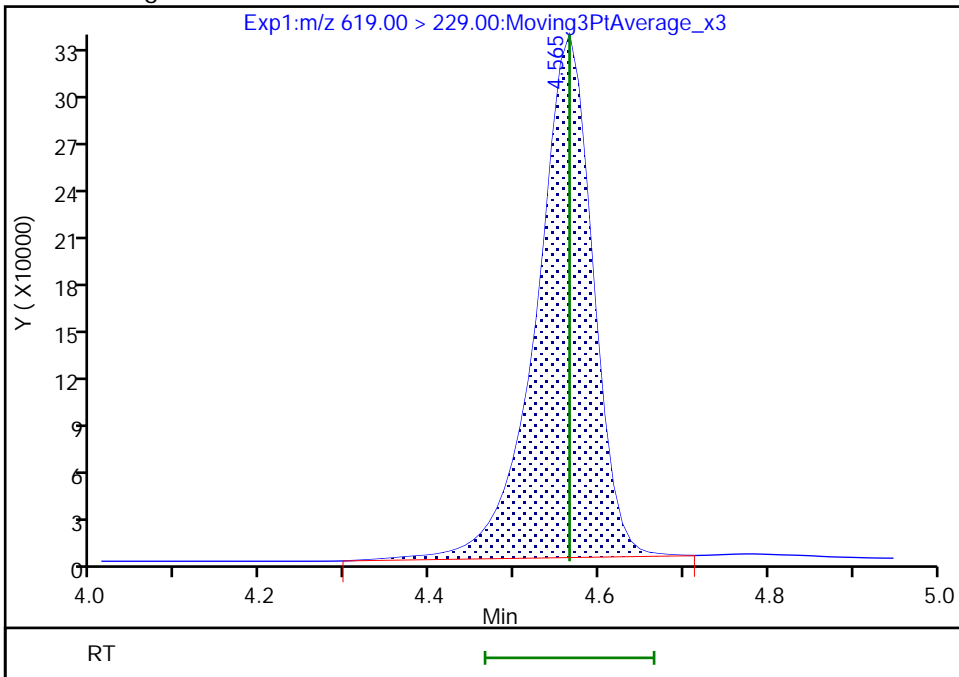
RT: 4.57
Area: 1566468
Amount: 15.494348
Amount Units: ng/ml

Processing Integration Results



RT: 4.57
Area: 1529179
Amount: 15.124579
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:19:18
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

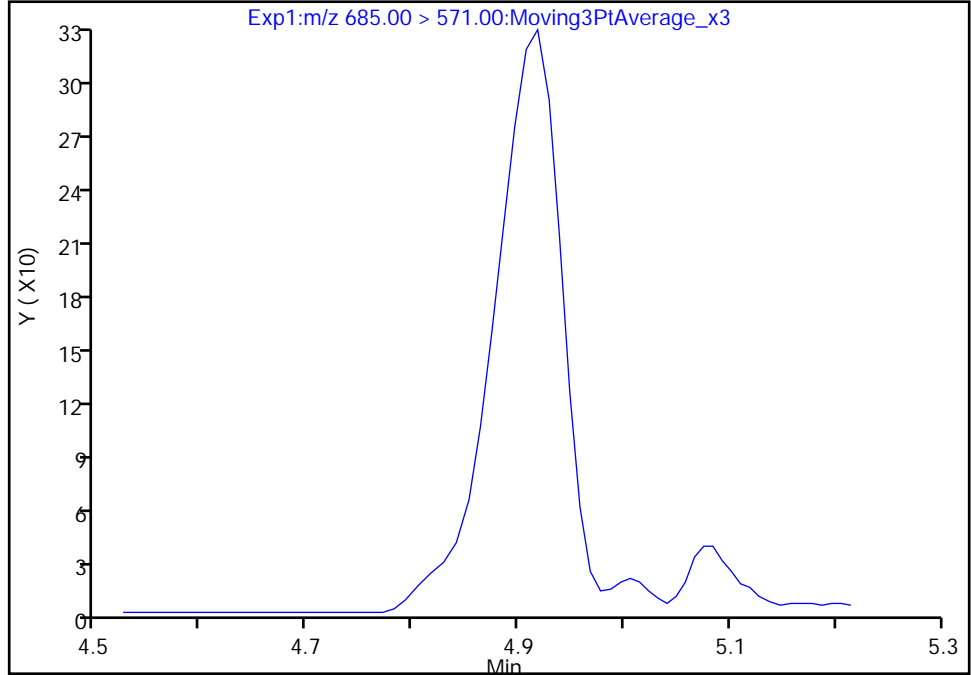
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-02.d
Injection Date: 09-Aug-2022 02:59:22 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

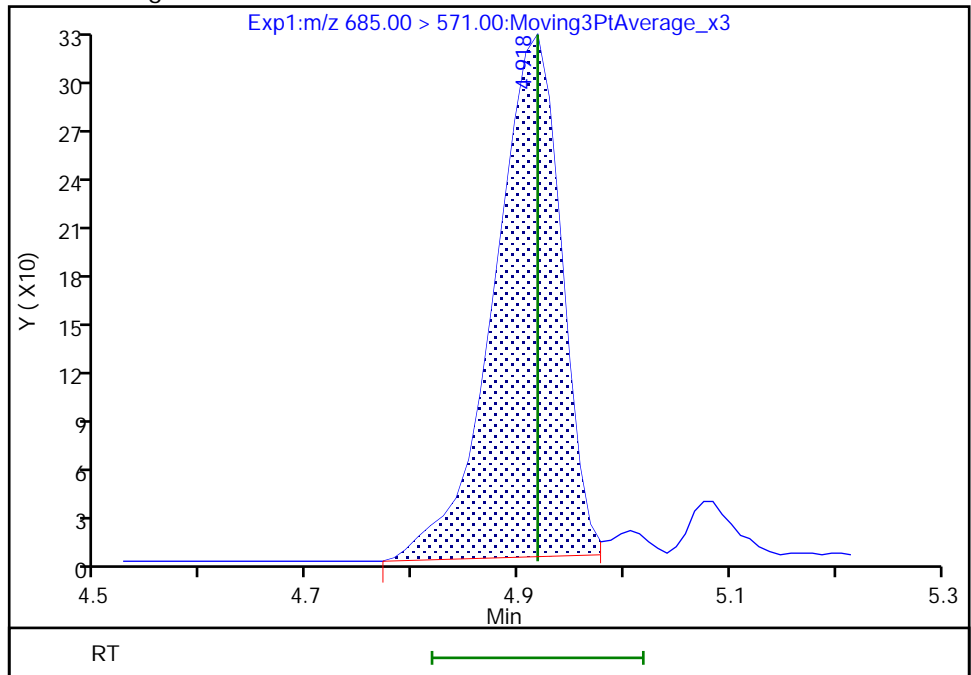
Not Detected
Expected RT: 4.92

Processing Integration Results



Manual Integration Results

RT: 4.92
Area: 1426
Amount: 0.246342
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 08:46:36
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/15 Calibration Date: 08/09/2022 05:43
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.596		5.37	4.45	20.5	30.0
BFS_A3B	Q2ID		1.714		5.69	4.98	14.3	30.0
BFS_B3	L1ID		0.9306		17.4	15.8	10.1	30.0
BFS_A2B2	L1ID		0.6443		39.4	34.7	13.6	30.0
BFS_A4B	L1ID		2.063		2.92	2.75	6.2	30.0
BFS_AB3	Q2ID		0.8041		39.5	37.2	6.3	30.0
BFS_A3B2	Q2ID		1.573		7.31	6.55	11.6	30.0
BFS_B4	L1ID		0.4869		9.22	8.64	6.7	30.0
BFS_A2B3	Q2ID		0.0506		0.776	0.655	18.5	30.0
13C3 HFPO-DA	Ave	0.2143	0.2060		4.81	5.00	-3.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-15.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 05:43:11 ALS Bottle#: 7 Worklist Smp#: 15
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:47 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:46:57

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.955	3.961	-0.006	0.903	863876	5.37	121	4631
2 BFS_A3B	519.00 > 113.00	4.037	4.043	-0.006	0.922	1036582	5.69	114	155
3 BFS_B3	553.00 > 345.00	4.194	4.201	-0.007	0.958	1792426	17.4	110	136
4 BFS_A2B2	569.00 > 229.00	4.294	4.305	-0.011	0.981	2718010	39.4	114	161
D 6 13C3 HFPO-DA	332.00 > 287.00	4.377	4.389	-0.012	0.878	607703	4.81	96.2	278
5 BFS_A4B	585.00 > 113.00	4.386	4.389	-0.003	1.002	689780	2.92	106	179
7 BFS_AB3	619.00 > 229.00	4.562	4.565	-0.003	1.042	3635171	39.5	106	214
8 BFS_A3B2	635.00 > 113.00	4.655	4.658	-0.003	1.063	1251950	7.31	112	208
9 BFS_B4	669.00 > 461.00	4.791	4.793	-0.002	1.095	511519	9.22	107	209
10 BFS_A2B3	685.00 > 571.00	4.895	4.918	-0.023	1.118	4031	0.7759	118	124 M
* 11 13C2 PFOA	415.00 > 370.00	4.986	4.997	-0.011		2949433	5.00		310

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-15.d

Injection Date: 09-Aug-2022 05:43:11

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 15

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

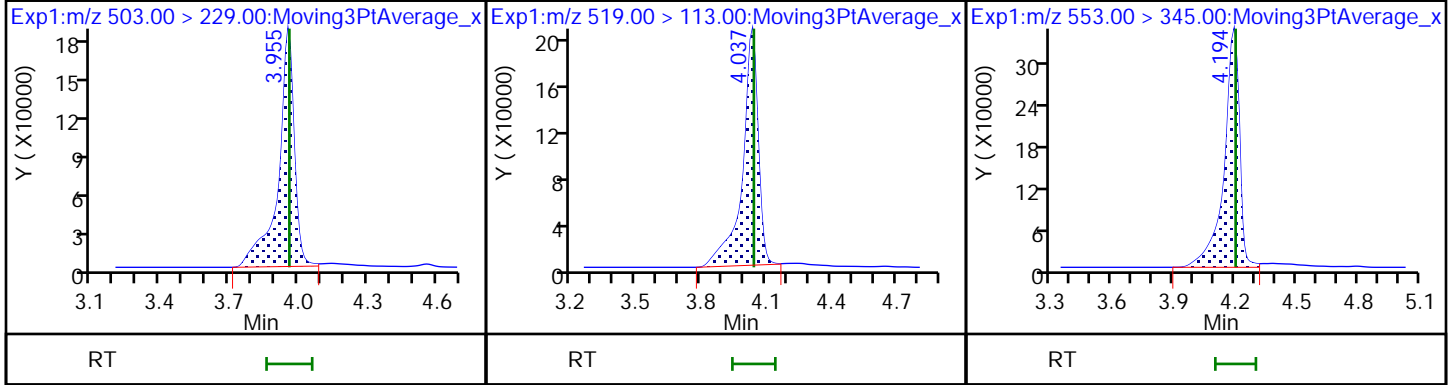
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

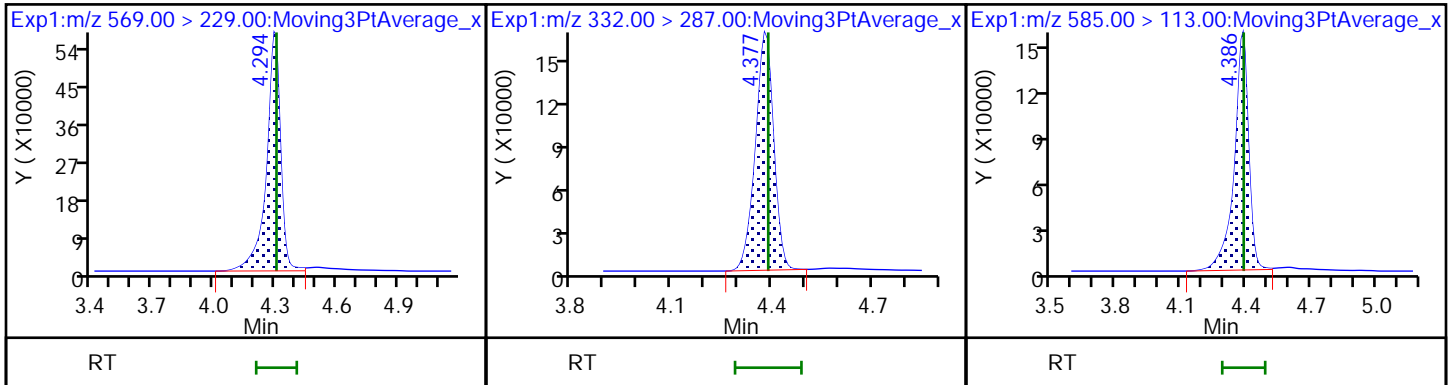
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

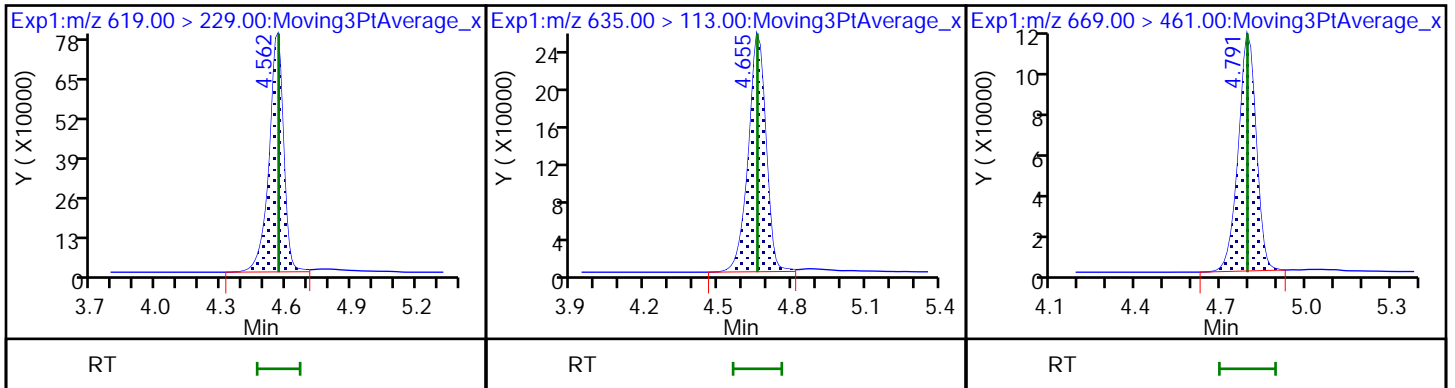
5 BFS_A4B



7 BFS_AB3

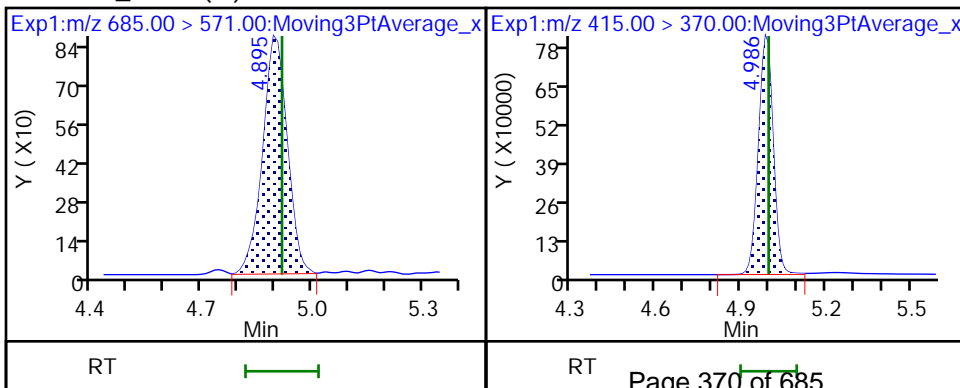
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

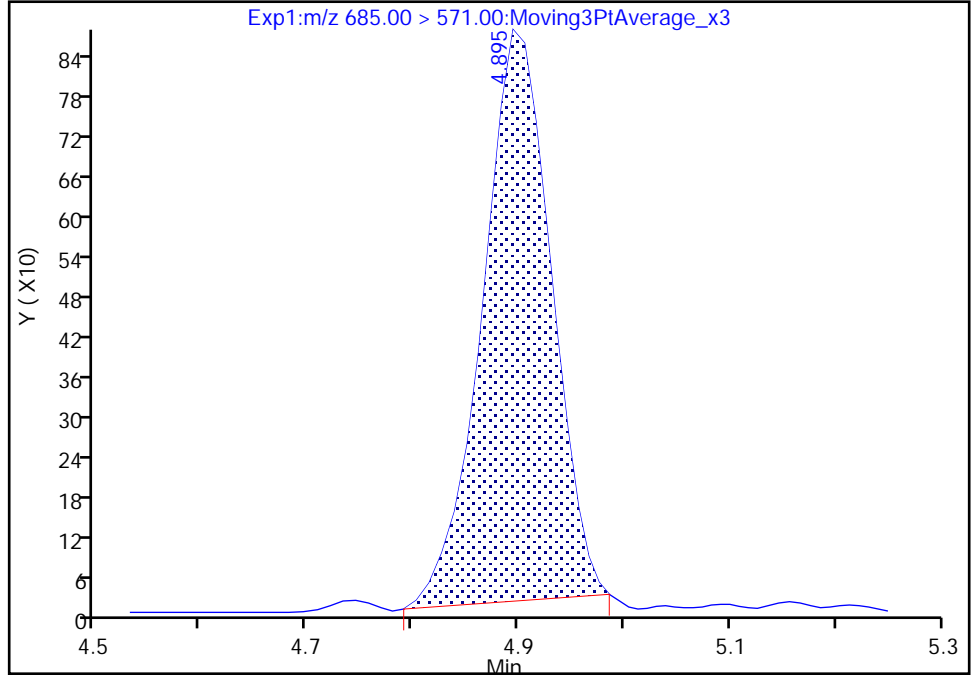
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-15.d
Injection Date: 09-Aug-2022 05:43:11 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 15
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

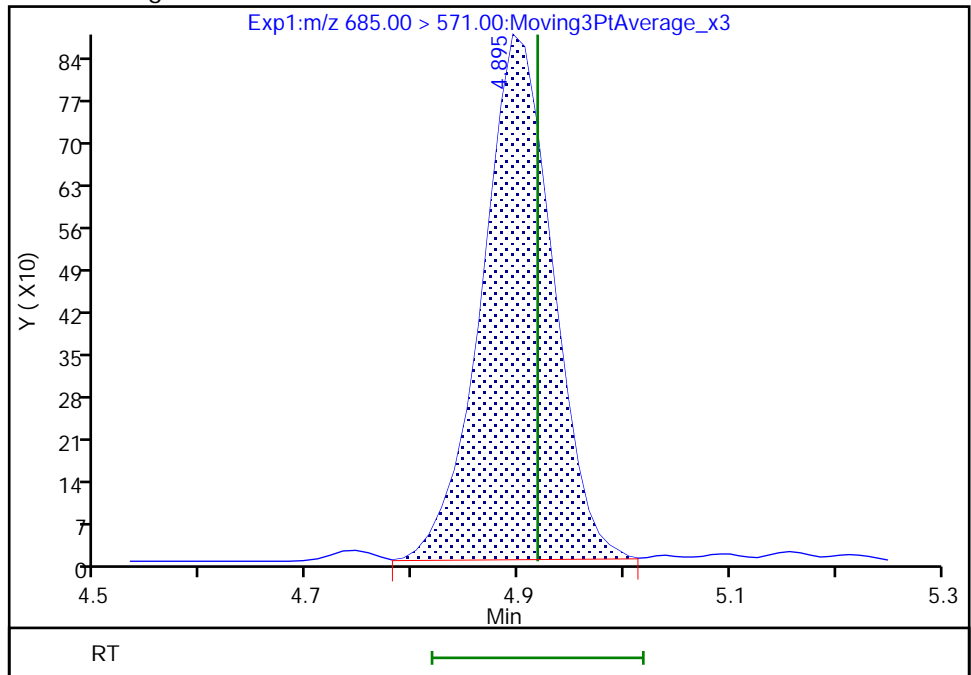
RT: 4.89
Area: 3854
Amount: 0.741648
Amount Units: ng/ml

Processing Integration Results



RT: 4.89
Area: 4031
Amount: 0.775921
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:46:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/18 Calibration Date: 08/09/2022 06:20
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-18.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.478		9.88	8.91	10.9	30.0
BFS_A3B	Q2ID		1.607		10.6	9.95	6.3	30.0
BFS_B3	L1ID		0.9218		34.5	31.7	8.9	30.0
BFS_A2B2	L1ID		0.6046		74.0	69.4	6.6	30.0
BFS_A4B	L1ID		1.946		5.51	5.50	0.1	30.0
BFS_AB3	Q2ID		0.7636		75.7	74.4	1.8	30.0
BFS_A3B2	Q2ID		1.494		13.9	13.1	6.2	30.0
BFS_B4	L1ID		0.4946		18.7	17.3	8.4	30.0
BFS_A2B3	Q2ID		0.0444		1.36	1.31	4.1	30.0
13C3 HFPO-DA	Ave	0.2143	0.2164		5.05	5.00	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d
 Lims ID: CCV 4_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 06:20:57 ALS Bottle#: 8 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:45 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:47:29

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.952	3.961	-0.009	0.902	1731661	9.88	111	5217	M
2 BFS_A3B									M
519.00 > 113.00	4.033	4.043	-0.010	0.921	2104661	10.6	106	150	M
3 BFS_B3									
553.00 > 345.00	4.190	4.201	-0.011	0.956	3843389	34.5	109	146	
4 BFS_A2B2									
569.00 > 229.00	4.298	4.305	-0.007	0.981	5520868	74.0	107	159	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.381	4.389	-0.008	0.879	657715	5.05	101	296	
5 BFS_A4B									
585.00 > 113.00	4.381	4.389	-0.008	1.000	1408209	5.51	100	175	
7 BFS_AB3									
619.00 > 229.00	4.556	4.565	-0.009	1.040	7472636	75.7	102	193	
8 BFS_A3B2									
635.00 > 113.00	4.649	4.658	-0.009	1.061	2574018	13.9	106	207	
9 BFS_B4									
669.00 > 461.00	4.793	4.793	0.0	1.094	1124895	18.7	108	235	
10 BFS_A2B3									M
685.00 > 571.00	4.896	4.918	-0.022	1.117	7657	1.36	104	94.6	M
* 11 13C2 PFOA									
415.00 > 370.00	4.987	4.997	-0.010		3039669	5.00		333	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d

Injection Date: 09-Aug-2022 06:20:57

Instrument ID: 30733

Lims ID: CCV 4_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 18

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

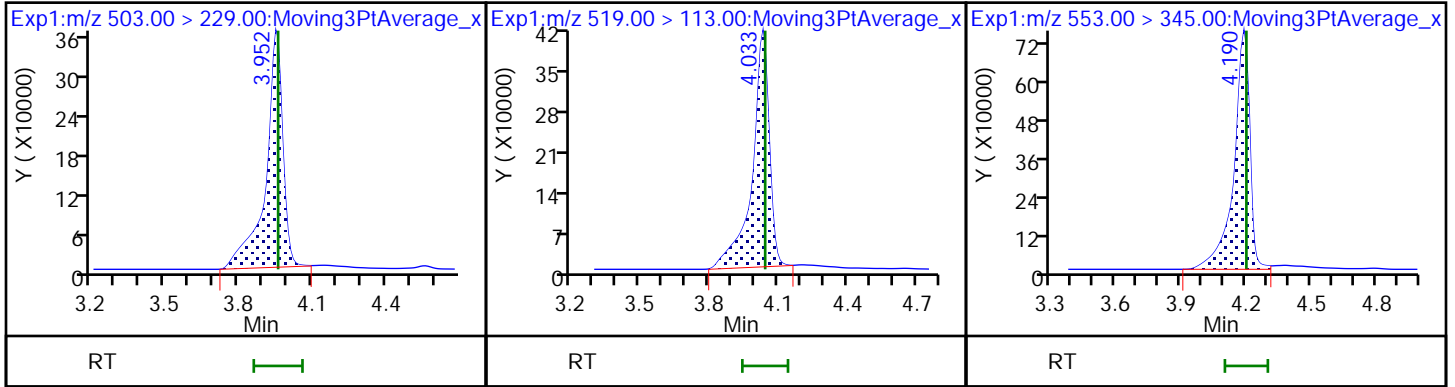
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

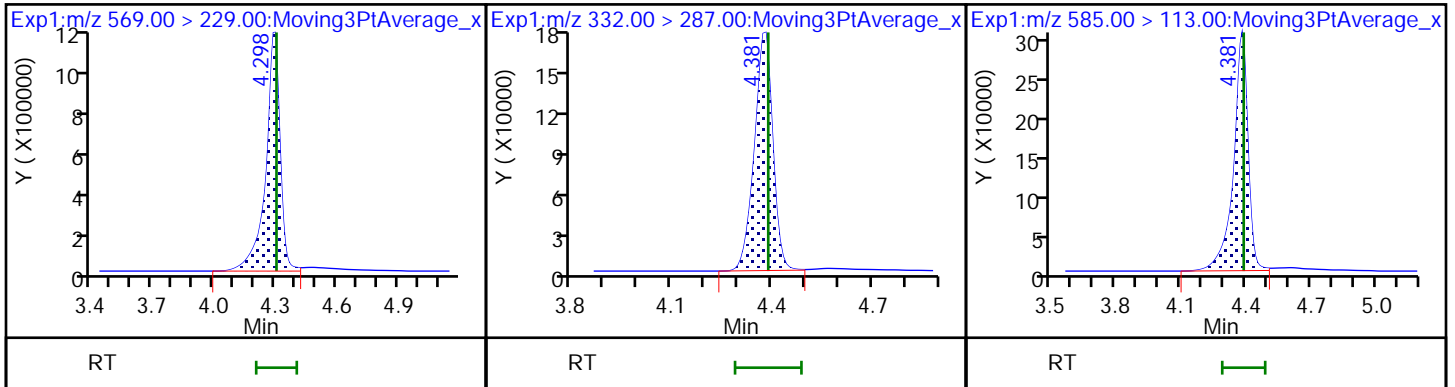
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

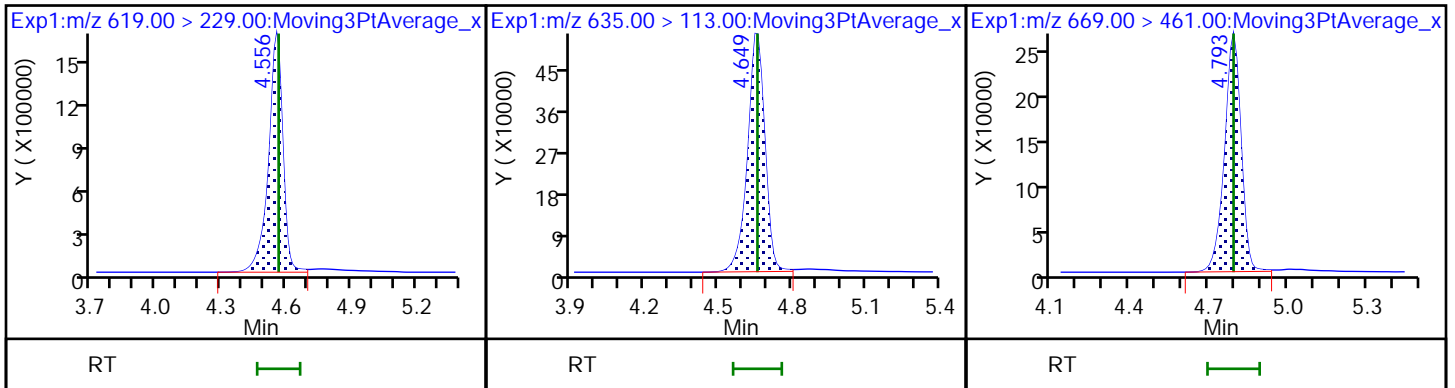
5 BFS_A4B



7 BFS_AB3

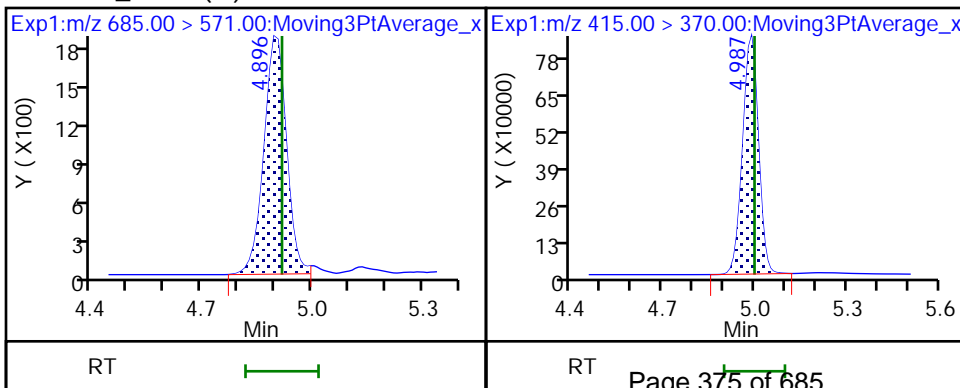
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

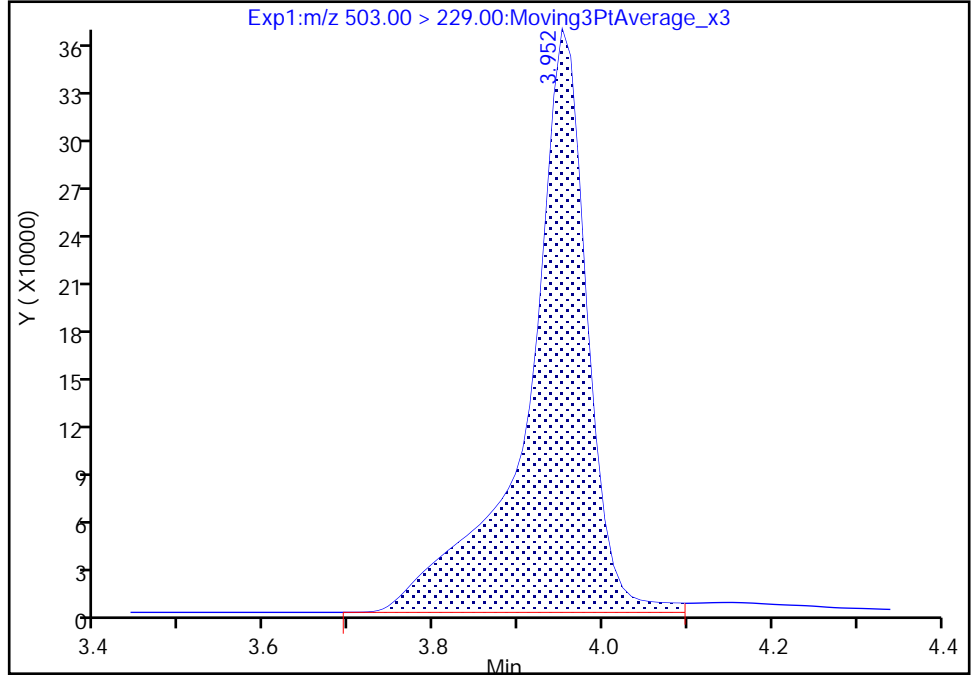
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d
Injection Date: 09-Aug-2022 06:20:57 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

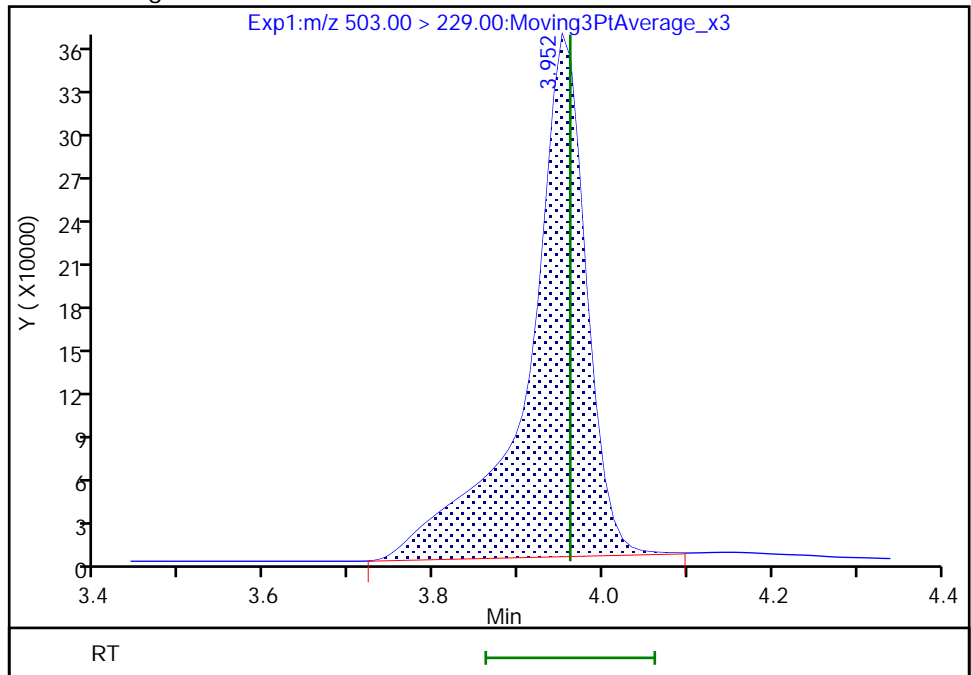
RT: 3.95
Area: 1789311
Amount: 10.204112
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 1731661
Amount: 9.879752
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:47:07
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

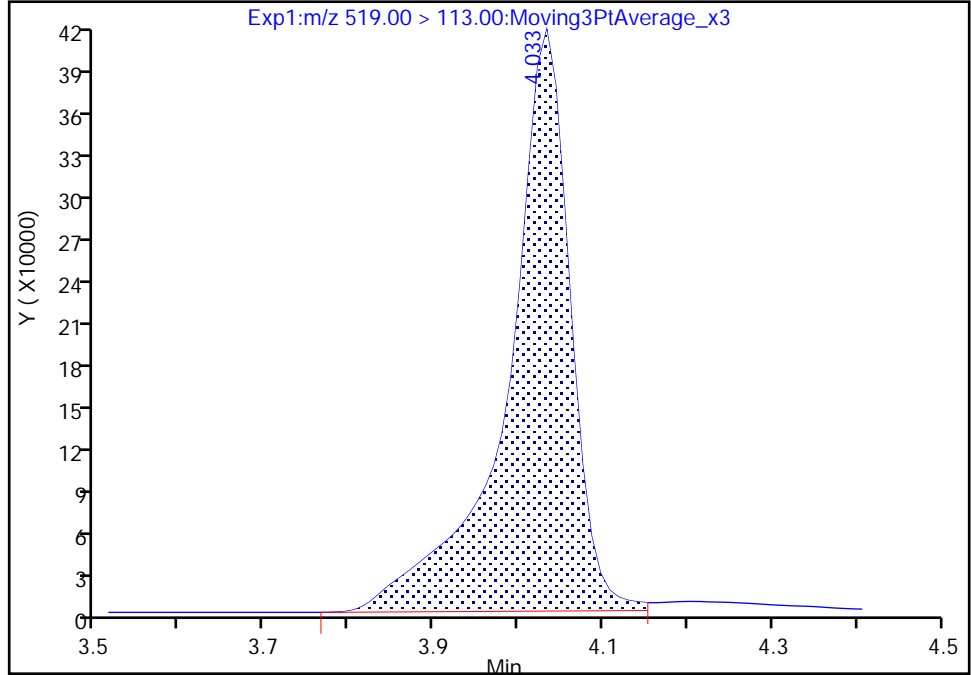
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d
Injection Date: 09-Aug-2022 06:20:57 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

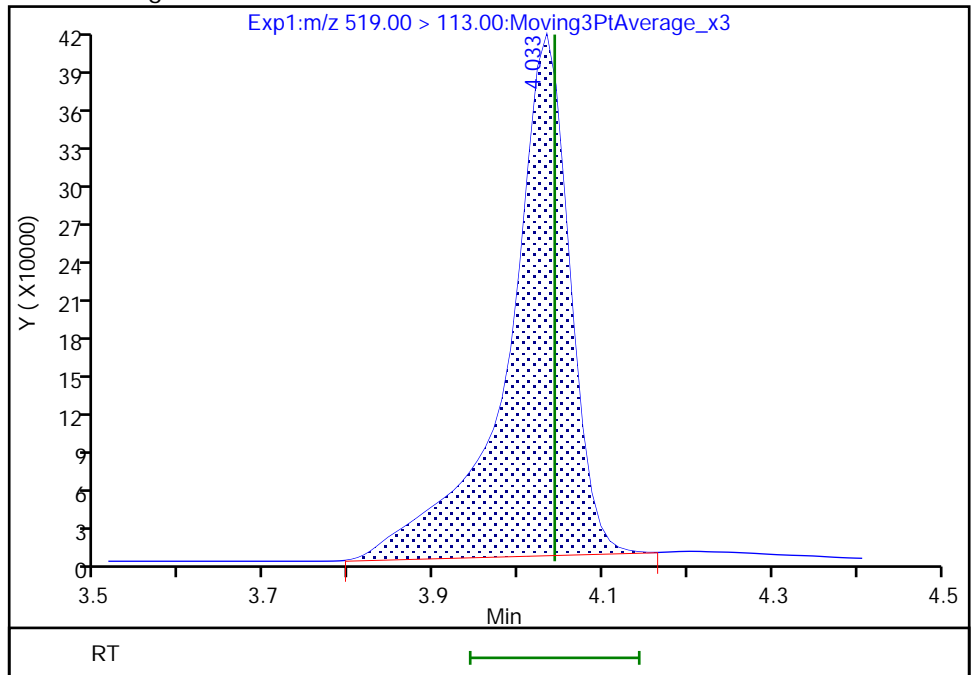
RT: 4.03
Area: 2159184
Amount: 10.850558
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 2104661
Amount: 10.581422
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:47:12
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

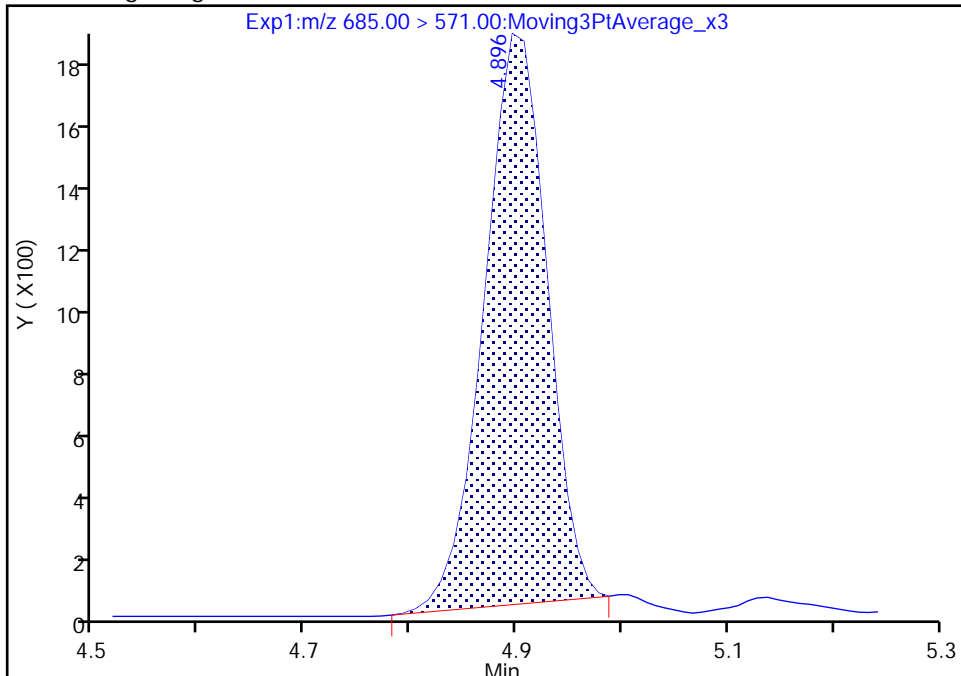
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-18.d
Injection Date: 09-Aug-2022 06:20:57 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

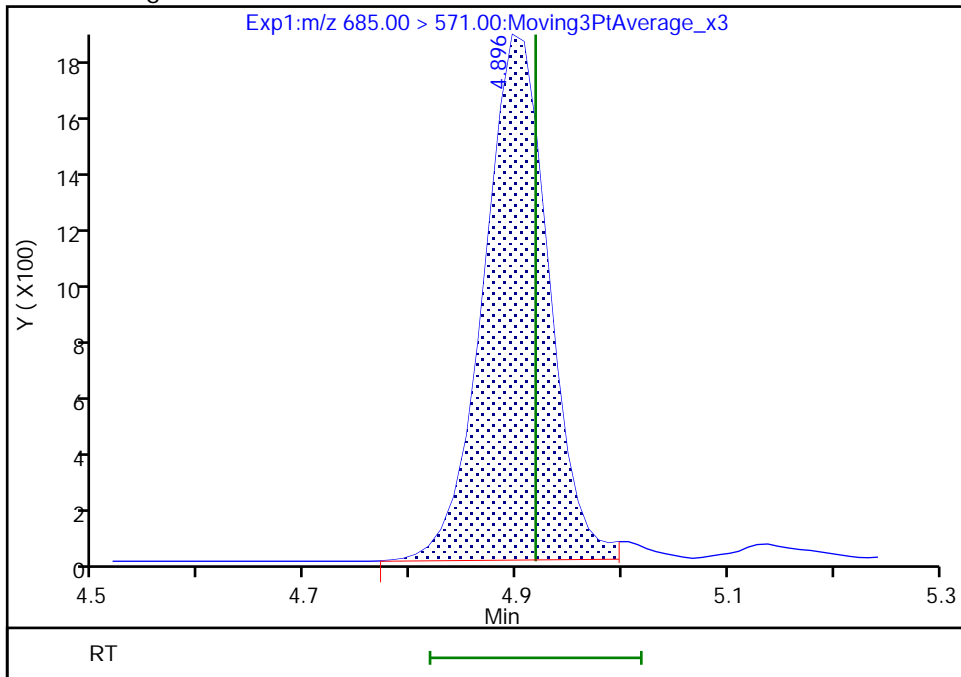
RT: 4.90
Area: 7259
Amount: 1.292639
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 7657
Amount: 1.363434
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:47:21
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/29 Calibration Date: 08/09/2022 08:39
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-29.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.602		2.17	1.78	21.6	30.0
BFS_A3B	Q2ID		1.782		2.38	1.99	19.7	30.0
BFS_B3	L1ID		0.9547		7.18	6.34	13.2	30.0
BFS_A2B2	L1ID		0.6485		15.8	13.9	14.1	30.0
BFS_A4B	L1ID		2.084		1.18	1.10	7.5	30.0
BFS_AB3	Q2ID		0.8399		16.4	14.9	10.5	30.0
BFS_A3B2	Q2ID		1.561		2.90	2.62	10.6	30.0
BFS_B4	L1ID		0.5000		3.78	3.46	9.4	30.0
BFS_A2B3	Q2ID		0.0450		0.272	0.262	3.8	30.0
13C3 HFPO-DA	Ave	0.2143	0.2168		5.06	5.00	1.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-29.d
 Lims ID: CCV 5_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 08:39:20 ALS Bottle#: 6 Worklist Smp#: 29
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 5_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-029
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:48 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:10:12

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.903	365031	2.17	122	2908
2 BFS_A3B	519.00 > 113.00	4.042	4.042	0.0	0.921	453679	2.38	120	174
3 BFS_B3	553.00 > 345.00	4.200	4.200	0.0	0.957	773915	7.18	113	144
4 BFS_A2B2	569.00 > 229.00	4.305	4.305	0.0	0.981	1151449	15.8	114	164
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.388	0.0	0.878	639424	5.06	101	261
5 BFS_A4B	585.00 > 113.00	4.388	4.388	0.0	1.000	293223	1.18	108	171
7 BFS_AB3	619.00 > 229.00	4.565	4.565	0.0	1.040	1598074	16.4	111	199
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.062	522782	2.90	111	205
9 BFS_B4	669.00 > 461.00	4.805	4.805	0.0	1.095	221100	3.78	109	189
10 BFS_A2B3	685.00 > 571.00	4.896	4.896	0.0	1.116	1509	0.2719	104	32.0 M
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2949271	5.00		312

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-29.d

Injection Date: 09-Aug-2022 08:39:20

Instrument ID: 30733

Lims ID: CCV 5_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 29

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

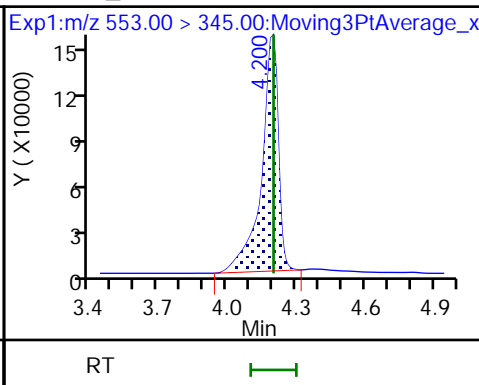
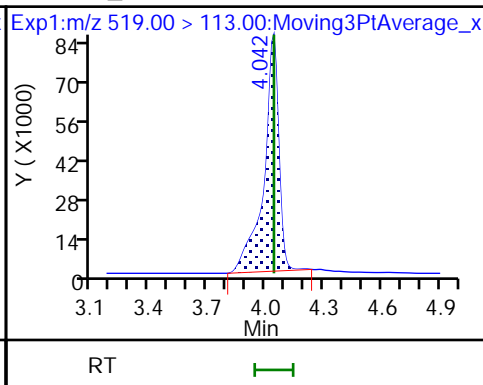
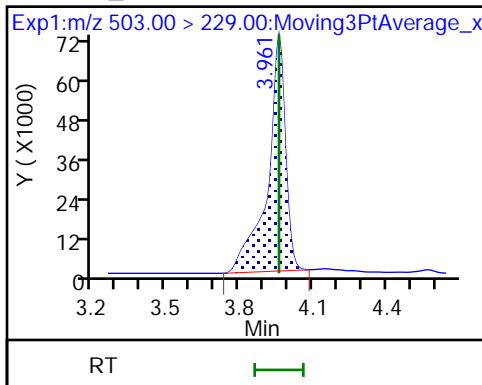
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

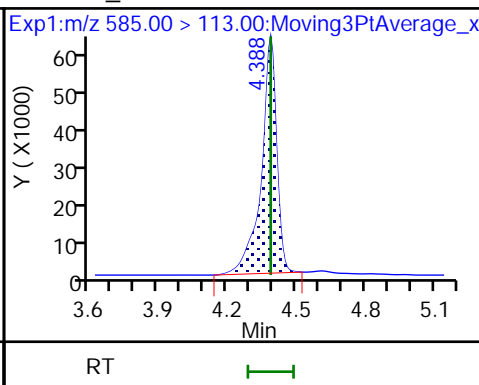
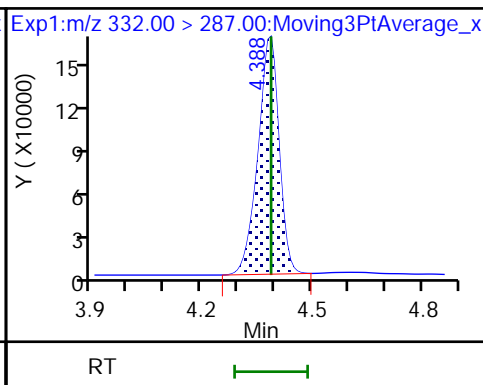
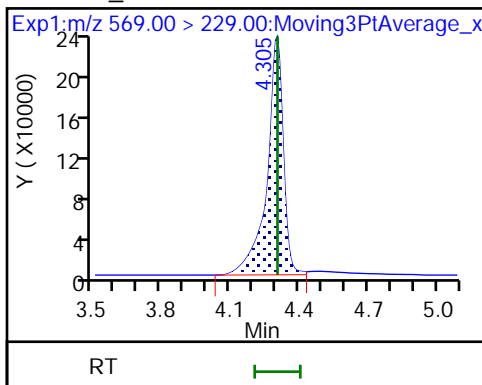
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

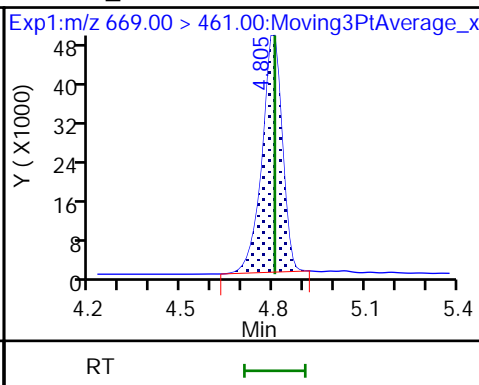
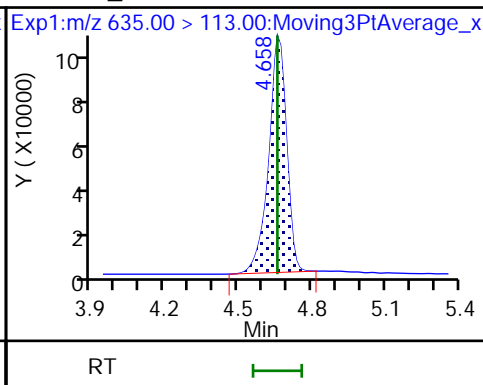
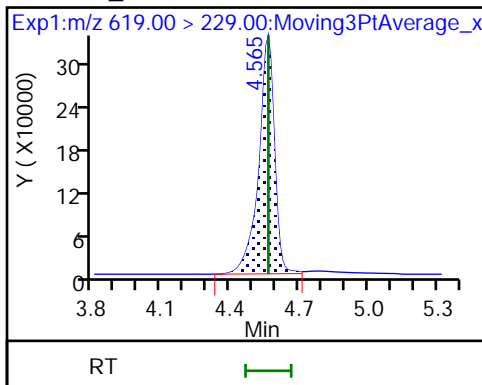
5 BFS_A4B



7 BFS_AB3

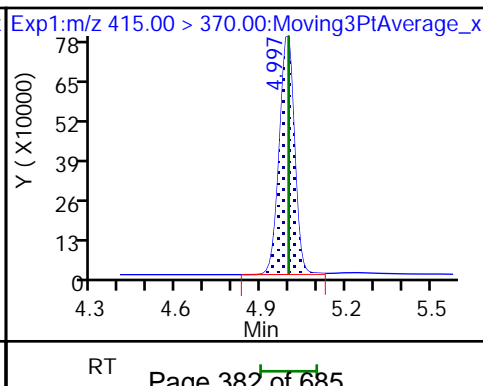
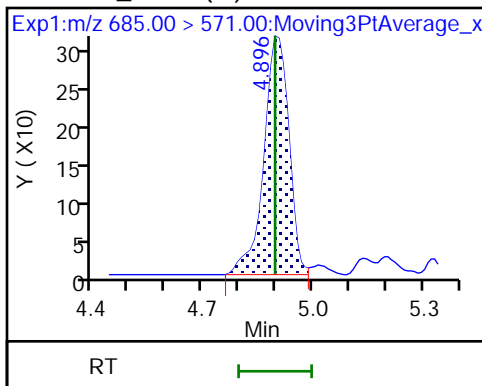
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

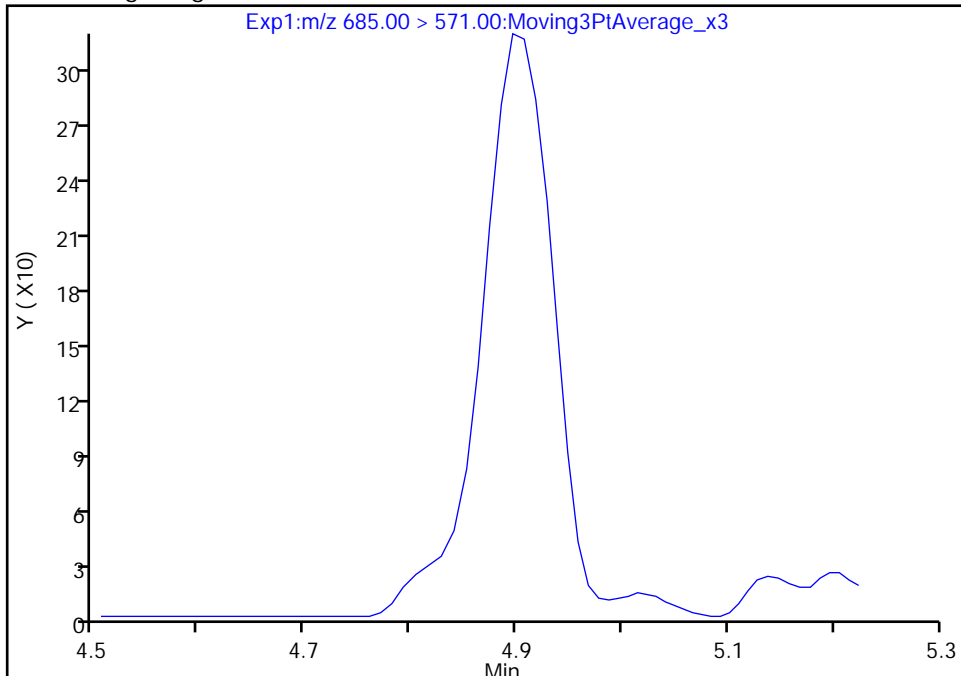
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-29.d
Injection Date: 09-Aug-2022 08:39:20 Instrument ID: 30733
Lims ID: CCV 5_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 29
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

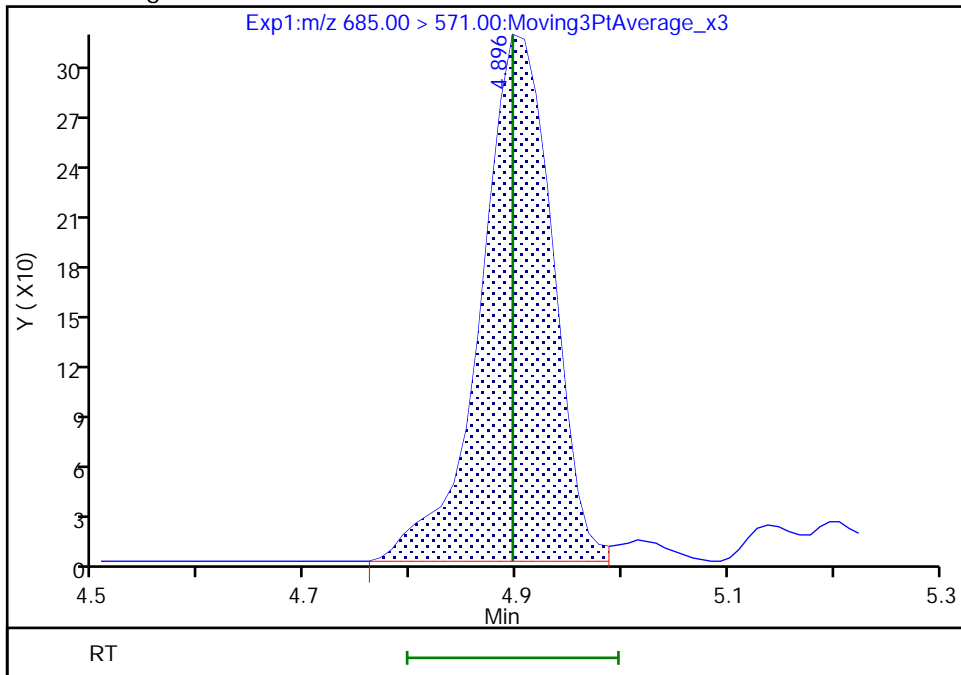
Signal: 1

Not Detected
Expected RT: 4.90

Processing Integration Results



Manual Integration Results



RT: 4.90
Area: 1509
Amount: 0.271870
Amount Units: ng/ml

Reviewer: JVK6, 09-Aug-2022 10:10:05
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 383 of 685

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/41 Calibration Date: 08/09/2022 11:10
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.550		5.22	4.45	17.1	30.0
BFS_A3B	Q2ID		1.753		5.82	4.98	16.9	30.0
BFS_B3	L1ID		0.9536		17.9	15.8	12.8	30.0
BFS_A2B2	L1ID		0.6394		39.1	34.7	12.7	30.0
BFS_A4B	L1ID		2.140		3.03	2.75	10.2	30.0
BFS_AB3	Q2ID		0.8202		40.3	37.2	8.5	30.0
BFS_A3B2	Q2ID		1.613		7.49	6.55	14.4	30.0
BFS_B4	L1ID		0.5615		10.6	8.64	23.0	30.0
BFS_A2B3	Q2ID		0.0573		0.878	0.655	34.1*	30.0
13C3 HFPO-DA	Ave	0.2143	0.2119		4.94	5.00	-1.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-41.d
 Lims ID: CCV 6_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 11:10:37 ALS Bottle#: 7 Worklist Smp#: 41
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 6_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-041
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 12:33:57 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:33:30

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.960	3.961	-0.001	0.903	890464	5.22	117	4299
2 BFS_A3B	519.00 > 113.00	4.042	4.042	0.0	0.921	1125302	5.82	117	177
3 BFS_B3	553.00 > 345.00	4.200	4.200	0.0	0.957	1949036	17.9	113	135
4 BFS_A2B2	569.00 > 229.00	4.304	4.305	-0.001	0.981	2862022	39.1	113	135
5 BFS_A4B	585.00 > 113.00	4.388	4.388	0.0	1.000	759146	3.03	110	199
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.388	0.0	0.878	644866	4.94	98.9	306
7 BFS_AB3	619.00 > 229.00	4.564	4.565	-0.001	1.040	3934616	40.3	108	221
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.061	1362148	7.49	114	206
9 BFS_B4	669.00 > 461.00	4.804	4.805	-0.001	1.095	626019	10.6	123	257
10 BFS_A2B3	685.00 > 571.00	4.907	4.896	0.011	1.118	4840	0.8785	134	114 M
* 11 13C2 PFOA	415.00 > 370.00	4.996	4.997	-0.001		3043415	5.00		330

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-41.d

Injection Date: 09-Aug-2022 11:10:37

Instrument ID: 30733

Lims ID: CCV_6_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 41

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

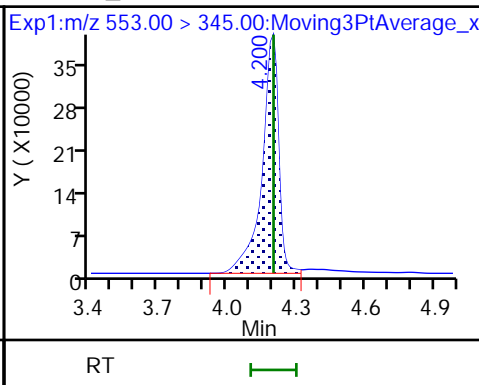
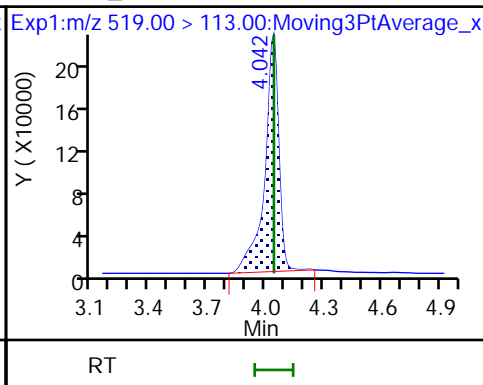
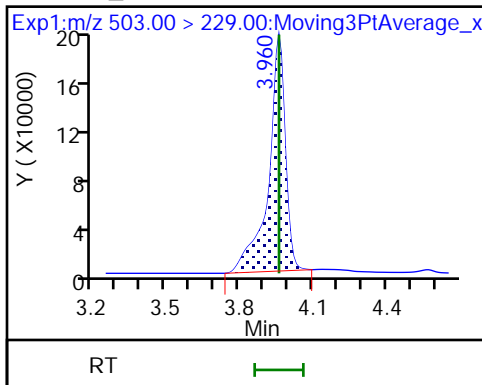
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

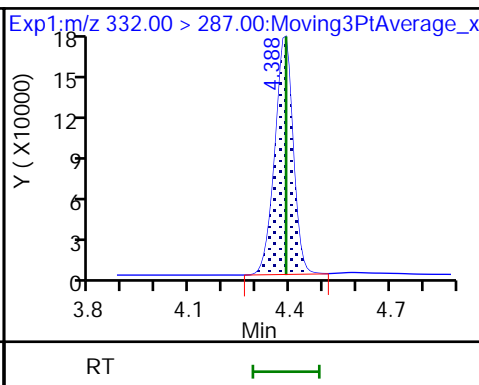
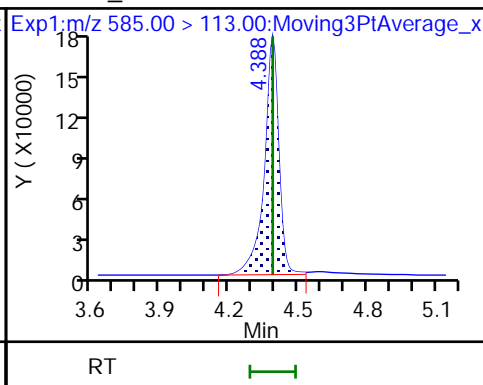
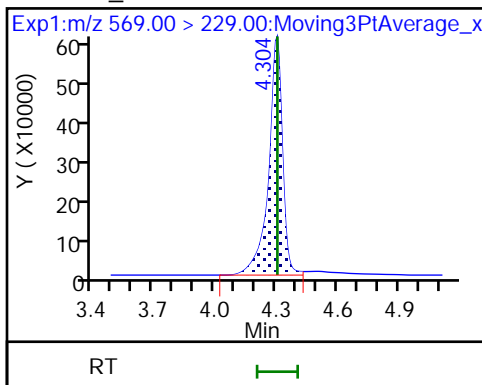
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B

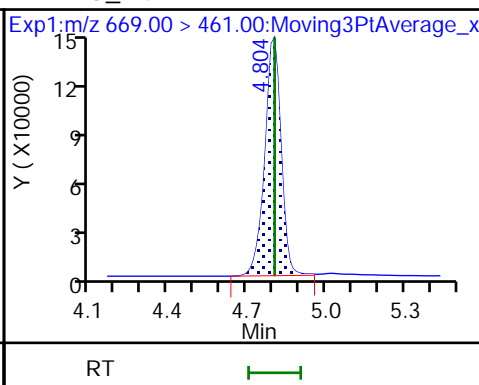
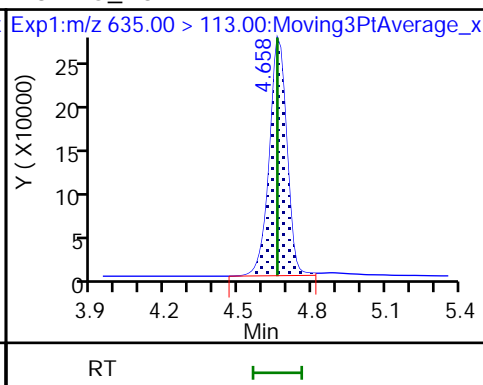
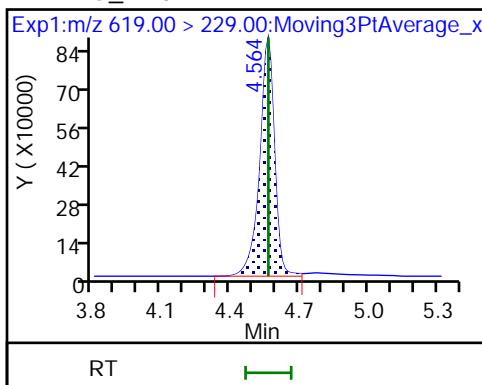
D 6 13C3 HFPO-DA



7 BFS_AB3

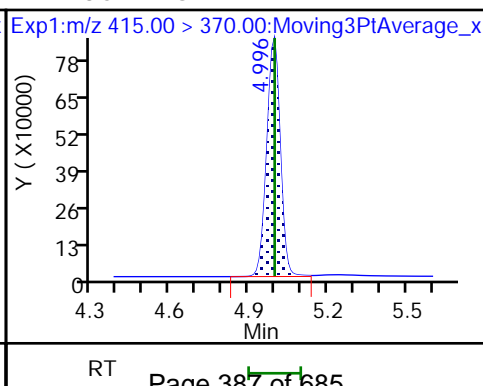
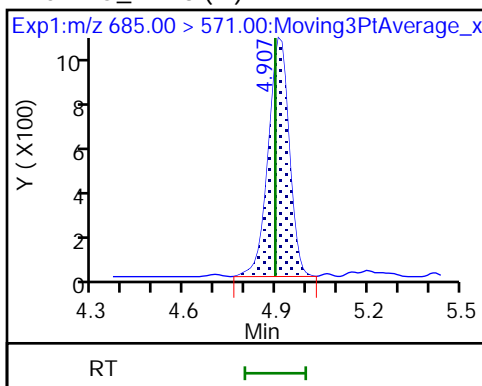
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

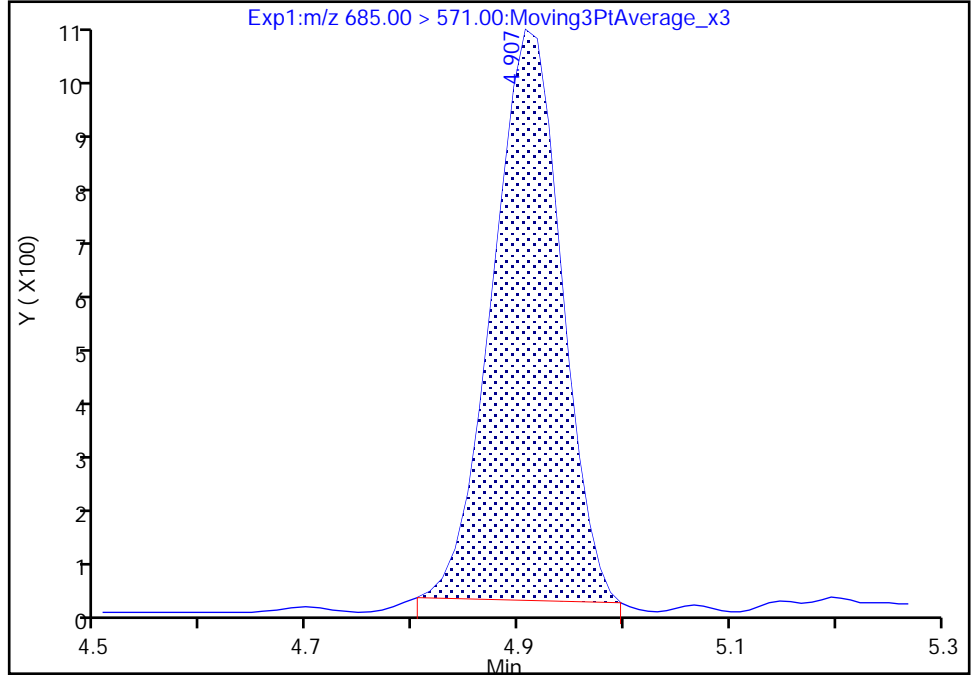
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Injection Date: 09-Aug-2022 11:10:37 Instrument ID: 30733
Lims ID: CCV 6_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 41
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

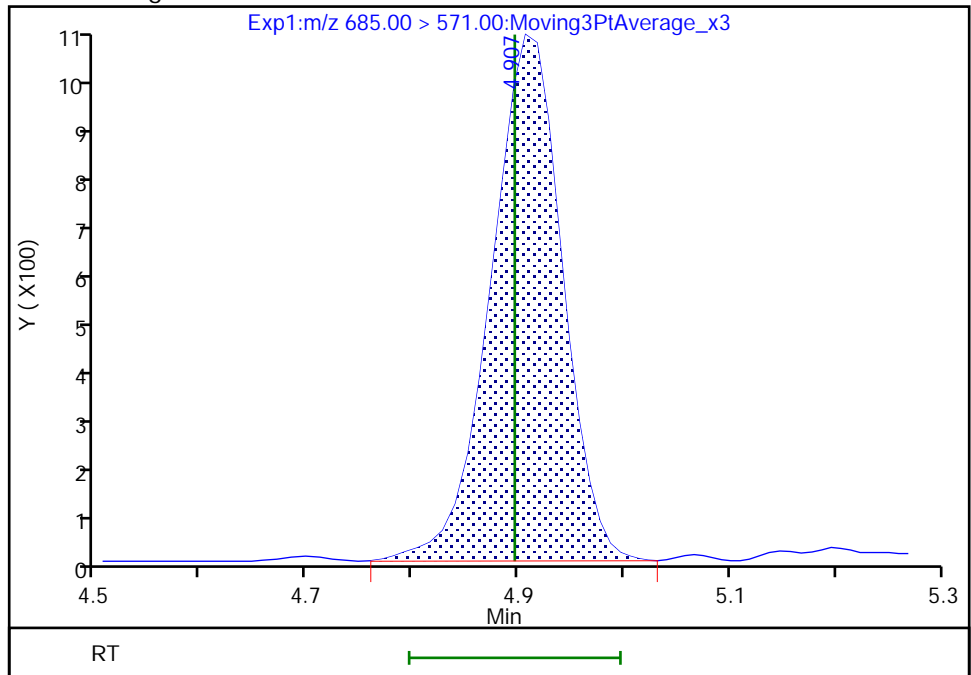
RT: 4.91
Area: 4556
Amount: 0.826717
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 4840
Amount: 0.878491
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 12:33:53
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-284260/1 Calibration Date: 08/10/2022 02:25
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG09BFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.307		0.0460	0.0445	3.4	50.0
BFS_A3B	Q2ID		1.485		0.0541	0.0498	8.8	50.0
BFS_B3	L1ID		0.8013		0.182	0.158	14.9	50.0
BFS_A2B2	L1ID		0.5918		0.308	0.347	-11.2	50.0
BFS_A4B	L1ID		2.116		0.0340	0.0275	23.6	50.0
BFS_AB3	Q2ID		0.7787		0.392	0.372	5.5	50.0
BFS_A3B2	Q2ID		1.553		0.0763	0.0655	16.5	50.0
BFS_B4	L1ID		0.5058		0.0893	0.0864	3.3	50.0
BFS_A2B3	Q2ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2143	0.2191		5.11	5.00	2.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 10-Aug-2022 02:25:07 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:56 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 11:06:34

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.971	3.971	0.0	0.905	7373	0.0460	103	176	M
2 BFS_A3B									M
519.00 > 113.00	4.045	4.045	0.0	0.921	9366	0.0541	109	76.4	M
3 BFS_B3									M
553.00 > 345.00	4.203	4.203	0.0	0.957	16090	0.1821	115	41.8	M
4 BFS_A2B2									
569.00 > 229.00	4.315	4.315	0.0	0.983	26025	0.3082	88.8	115	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.390	4.390	0.0	0.879	633523	5.11	102	312	
5 BFS_A4B									M
585.00 > 113.00	4.399	4.399	0.0	1.002	7375	0.0340	124	108	M
7 BFS_AB3									
619.00 > 229.00	4.567	4.567	0.0	1.040	36699	0.3925	106	222	
8 BFS_A3B2									
635.00 > 113.00	4.674	4.674	0.0	1.065	12888	0.0763	117	135	
9 BFS_B4									
669.00 > 461.00	4.805	4.805	0.0	1.094	5540	0.0893	103	21.2	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.0		2891998	5.00		327	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d

Injection Date: 10-Aug-2022 02:25:07

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

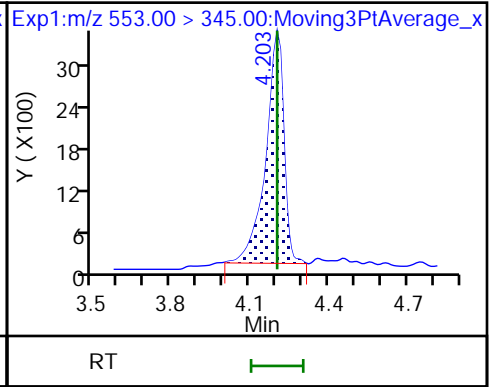
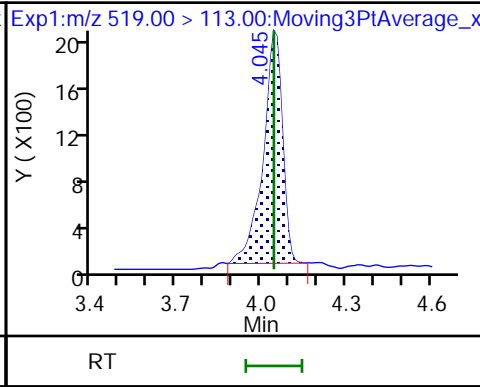
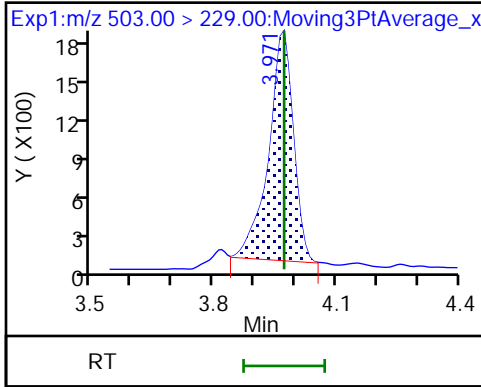
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

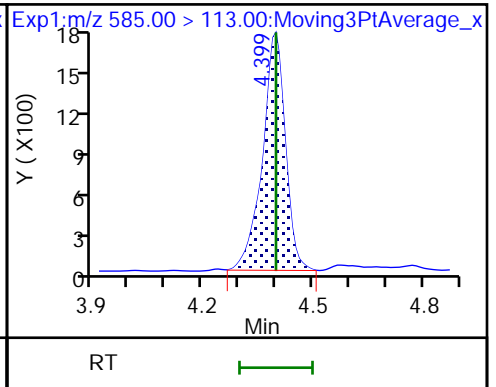
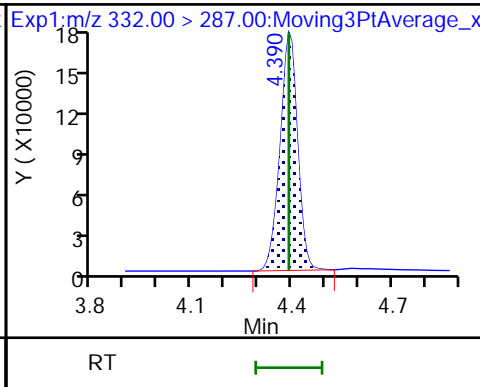
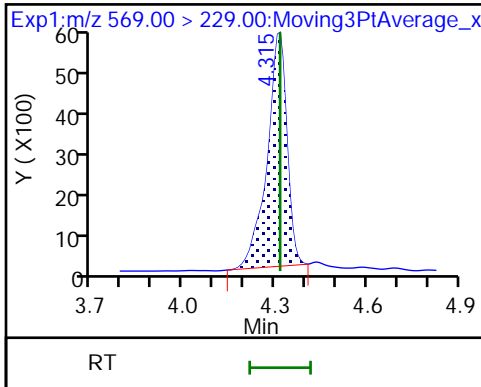
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

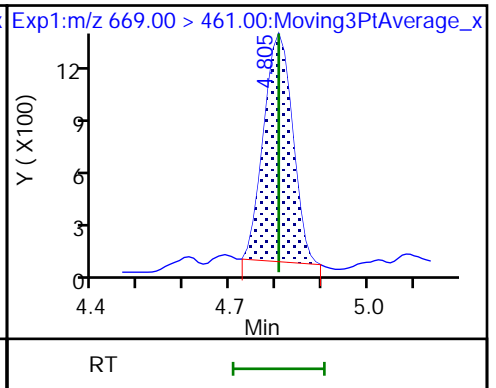
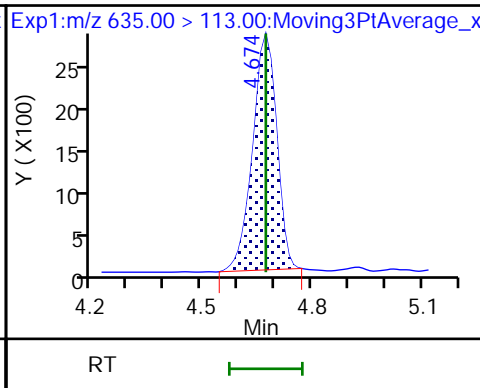
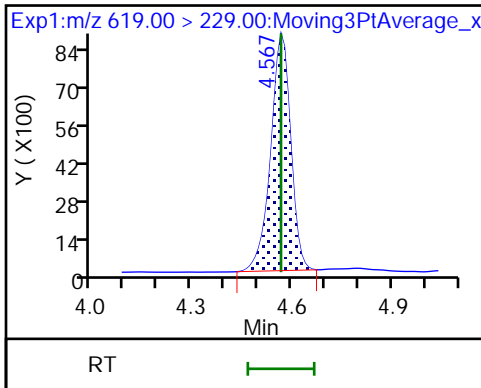
5 BFS_A4B (M)



7 BFS_AB3

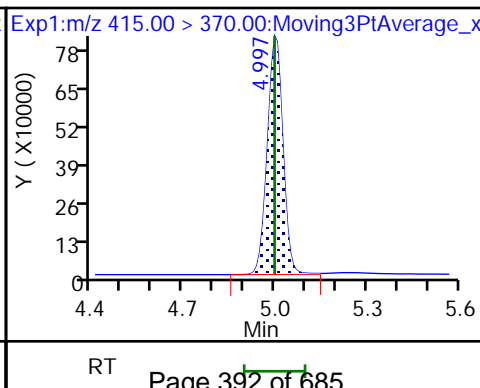
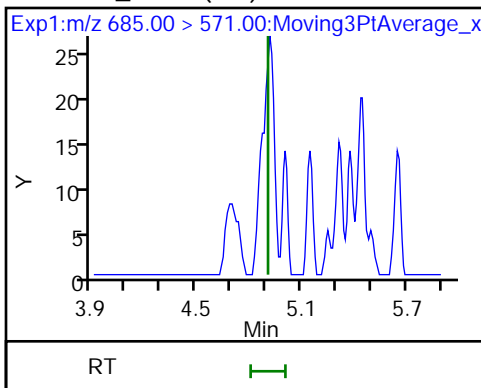
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

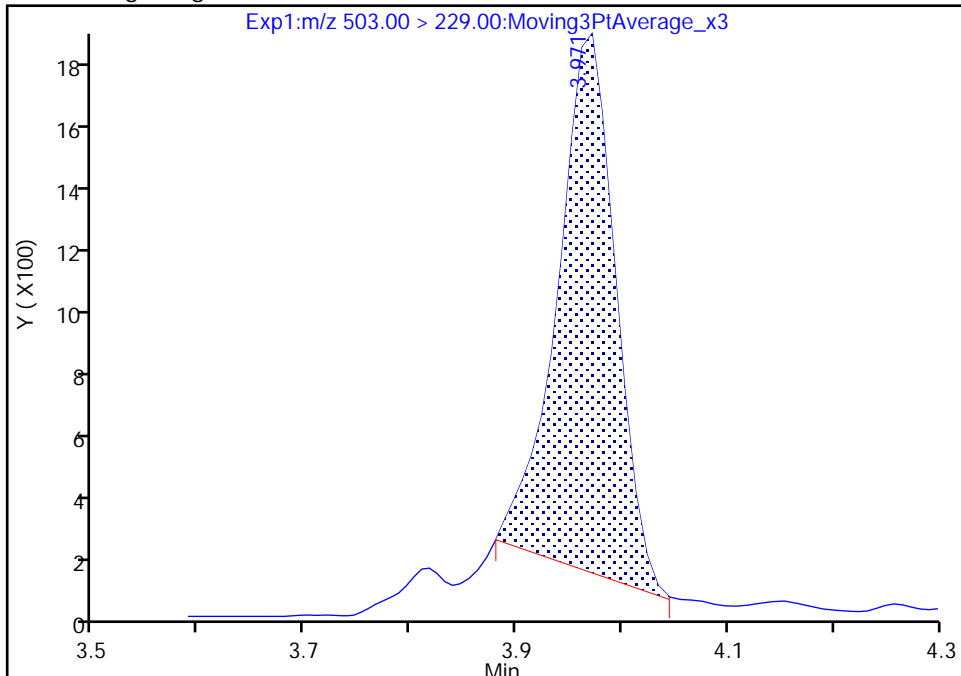
Data File:	\\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d		
Injection Date:	10-Aug-2022 02:25:07	Instrument ID:	30733
Lims ID:	CCVL 1_CAL1		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	2
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	1

1 BFS_AB2, CAS: STL02879

Signal: 1

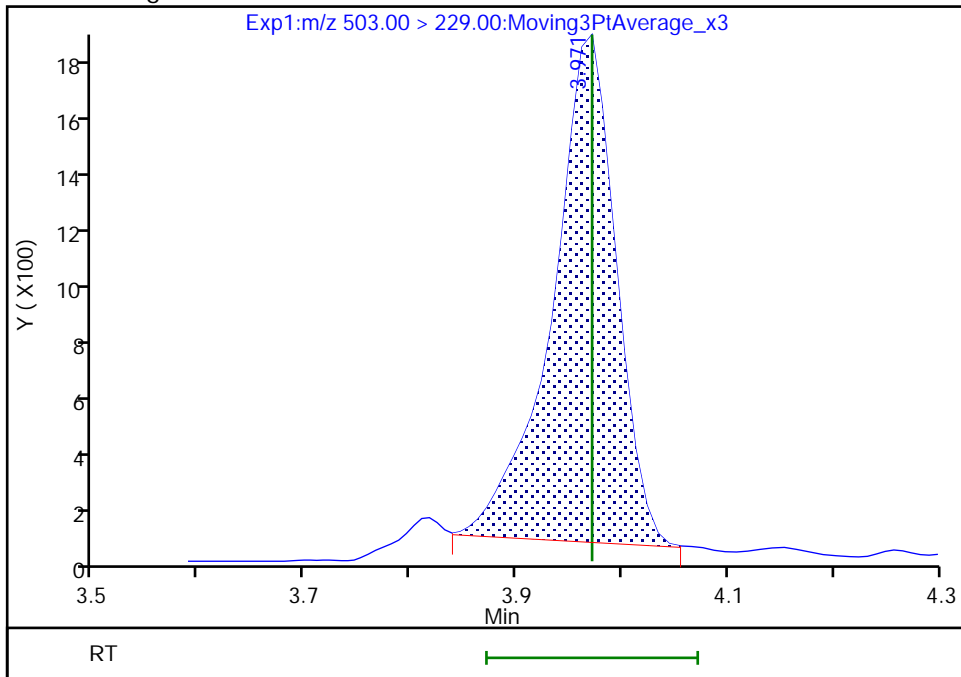
RT: 3.97
 Area: 6441
 Amount: 0.040438
 Amount Units: ng/ml

Processing Integration Results



RT: 3.97
 Area: 7373
 Amount: 0.046032
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:15
 Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

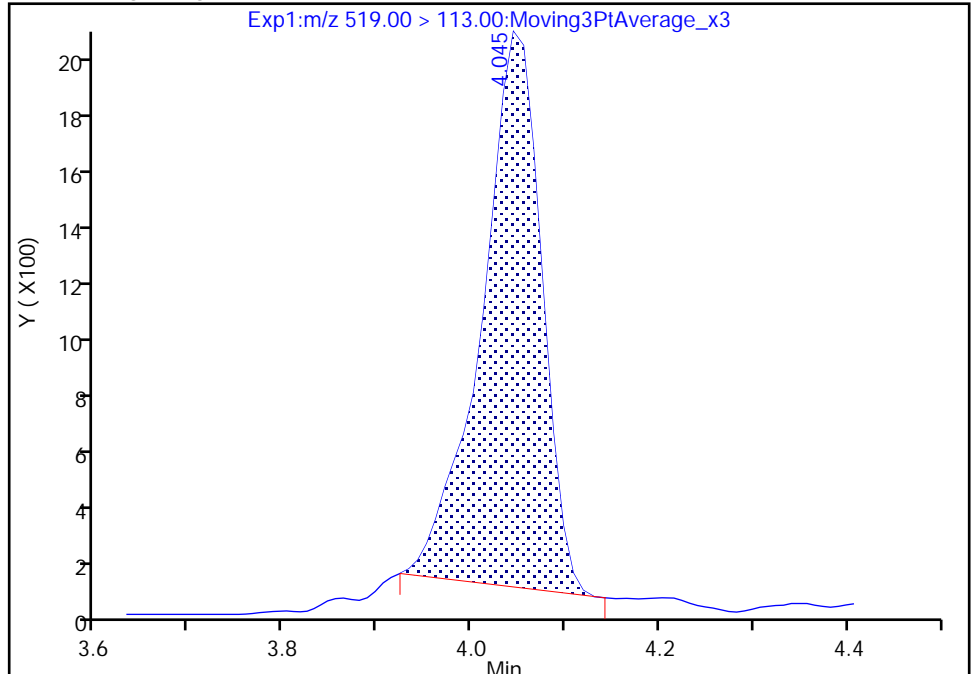
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Injection Date: 10-Aug-2022 02:25:07 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

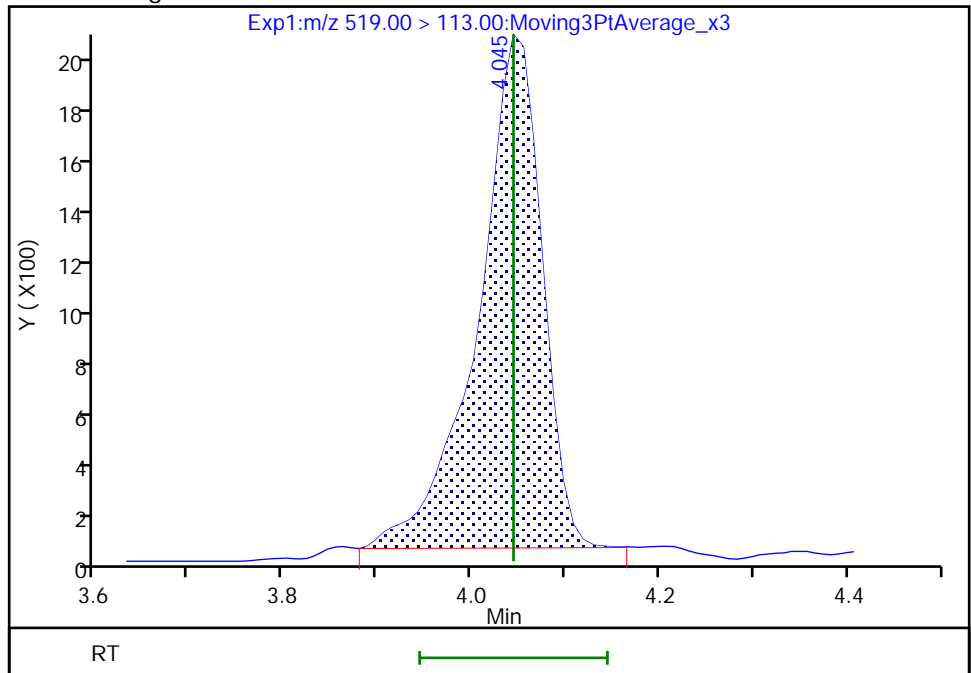
RT: 4.04
Area: 8595
Amount: 0.050031
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 9366
Amount: 0.054125
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:19
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

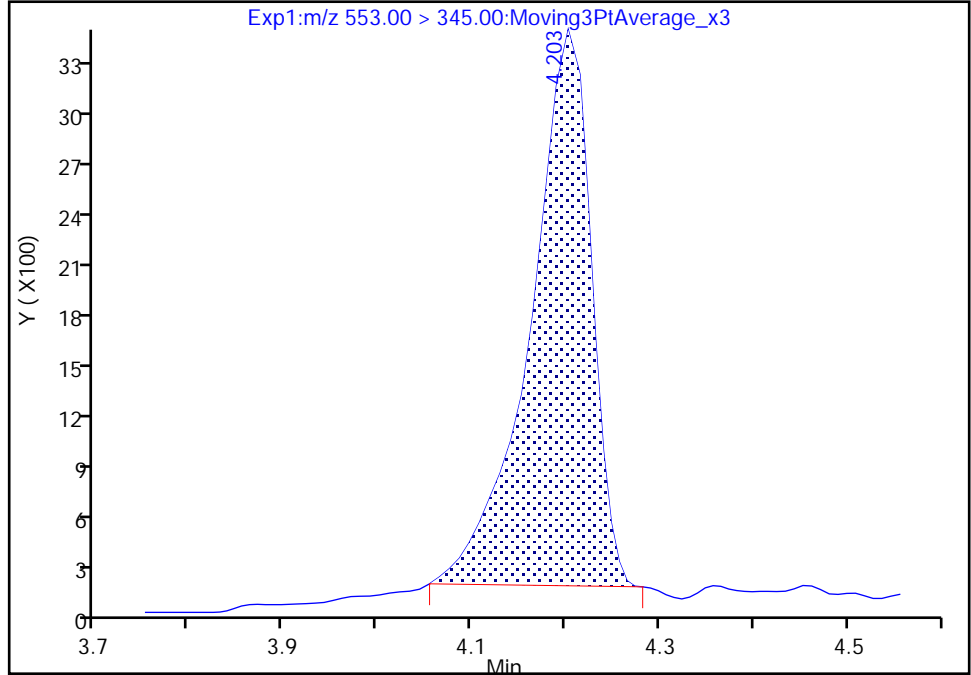
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Injection Date: 10-Aug-2022 02:25:07 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

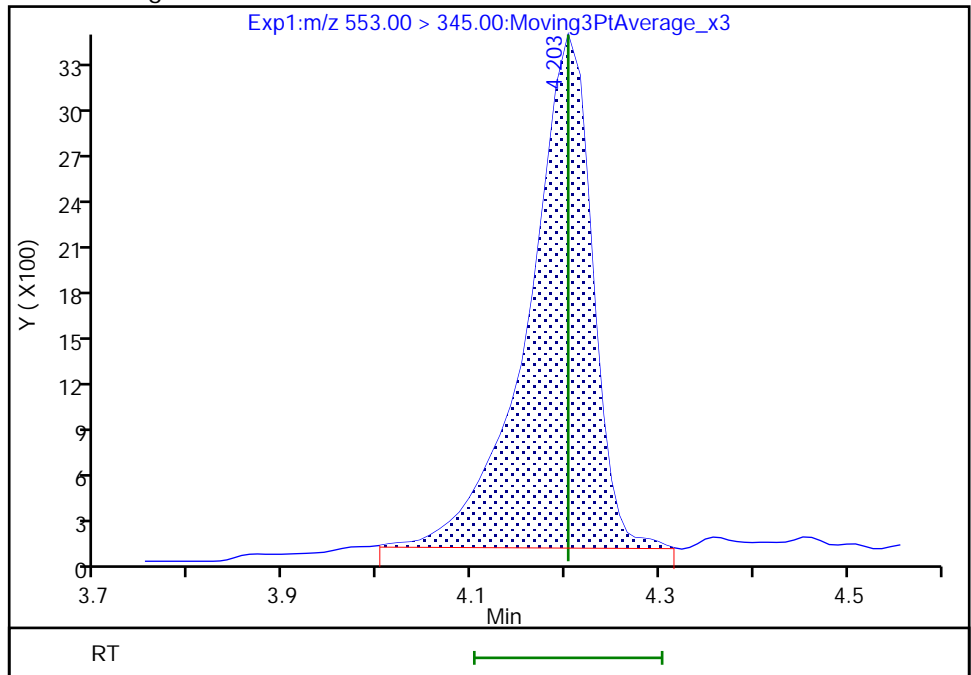
RT: 4.20
Area: 14896
Amount: 0.170944
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 16090
Amount: 0.182070
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:24
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 395 of 685

Eurofins Lancaster Laboratories Environment Testing, LLC

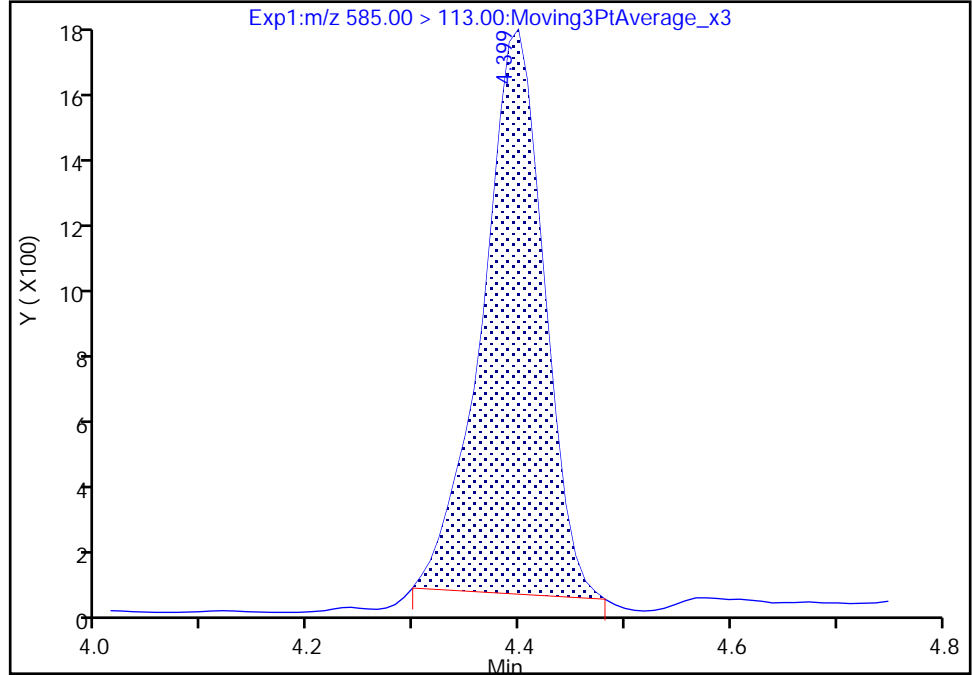
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d
Injection Date: 10-Aug-2022 02:25:07 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

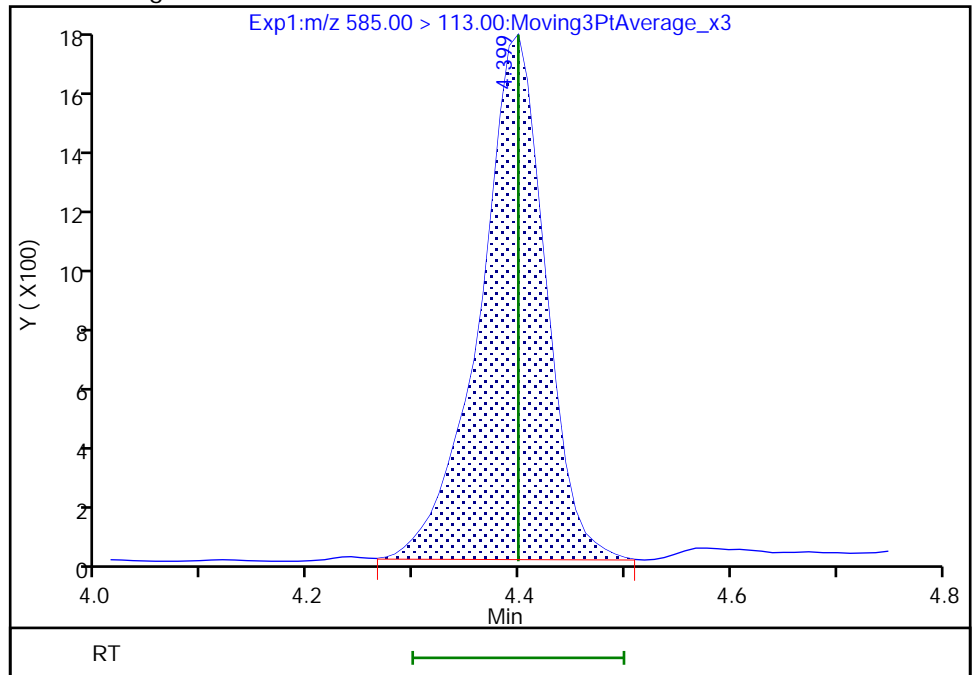
RT: 4.40
Area: 6756
Amount: 0.031477
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 7375
Amount: 0.033988
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:29
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284260/4 Calibration Date: 08/10/2022 03:04
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG09BFS-04.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.486		5.00	4.45	12.3	30.0
BFS_A3B	Q2ID		1.743		5.79	4.98	16.2	30.0
BFS_B3	L1ID		0.9749		18.3	15.8	15.3	30.0
BFS_A2B2	L1ID		0.6379		39.0	34.7	12.4	30.0
BFS_A4B	L1ID		2.052		2.91	2.75	5.6	30.0
BFS_AB3	Q2ID		0.8283		40.7	37.2	9.5	30.0
BFS_A3B2	Q2ID		1.536		7.13	6.55	8.9	30.0
BFS_B4	L1ID		0.5025		9.52	8.64	10.1	30.0
BFS_A2B3	Q2ID		0.0420		0.642	0.655	-1.9	30.0
13C3 HFPO-DA	Ave	0.2143	0.2084		4.86	5.00	-2.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-04.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 10-Aug-2022 03:04:31 ALS Bottle#: 7 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 11:07:36

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags	
1 BFS_AB2	503.00 > 229.00	3.951	3.960	-0.009	0.904	848852	5.00	112	1770	
2 BFS_A3B	519.00 > 113.00	4.032	4.042	-0.010	0.922	1113053	5.79	116	69.2	
3 BFS_B3	553.00 > 345.00	4.188	4.200	-0.012	0.958	1982265	18.3	115	132	
4 BFS_A2B2	569.00 > 229.00	4.288	4.304	-0.016	0.981	2840534	39.0	112	144	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.371	4.388	-0.017	0.877	641512	4.86	97.3	269	
5 BFS_A4B	585.00 > 113.00	4.380	4.388	-0.008	1.002	724058	2.91	106	186	
7 BFS_AB3	619.00 > 229.00	4.554	4.564	-0.010	1.042	3952780	40.7	110	181	
8 BFS_A3B2	635.00 > 113.00	4.647	4.657	-0.010	1.063	1290620	7.13	109	200	
9 BFS_B4	669.00 > 461.00	4.792	4.805	-0.013	1.096	557309	9.52	110	219	
10 BFS_A2B3	685.00 > 571.00	4.896	4.907	-0.011	1.120	3527	0.6423	98.1	64.4	M
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		3078414	5.00		320	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-04.d

Injection Date: 10-Aug-2022 03:04:31

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

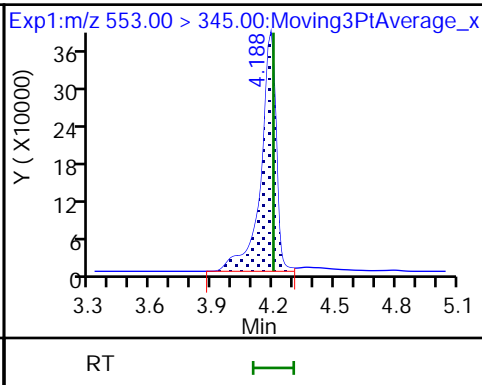
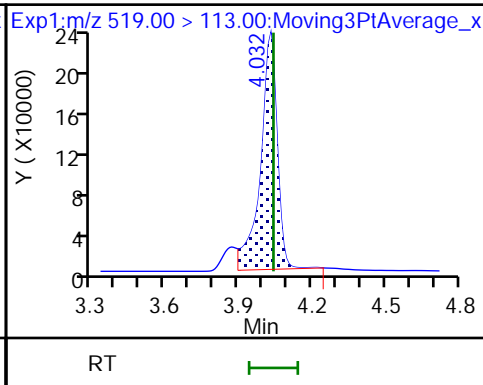
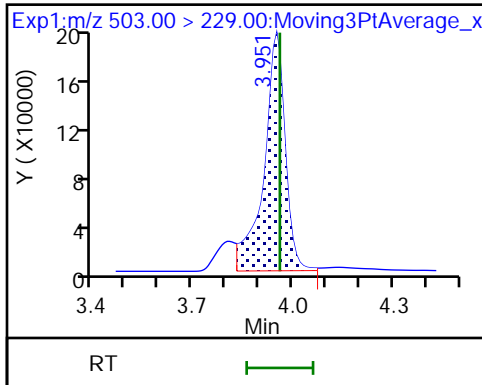
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

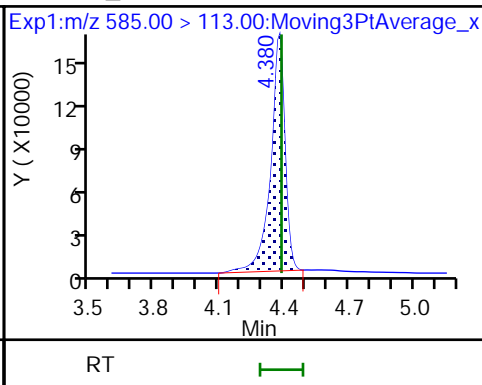
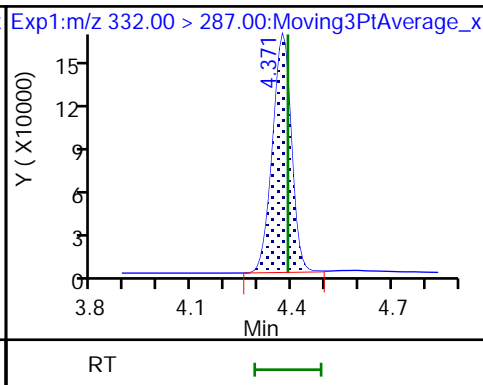
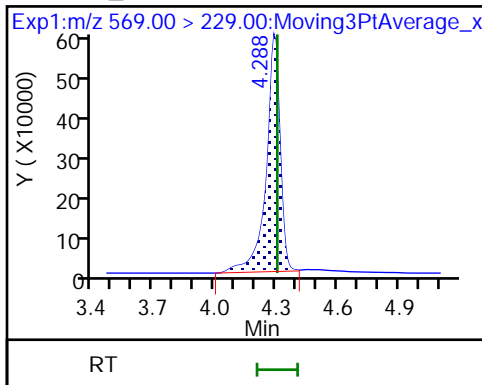
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

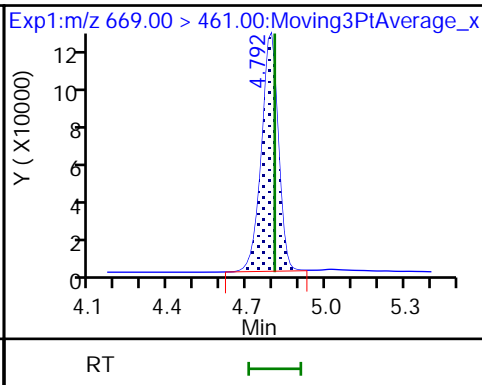
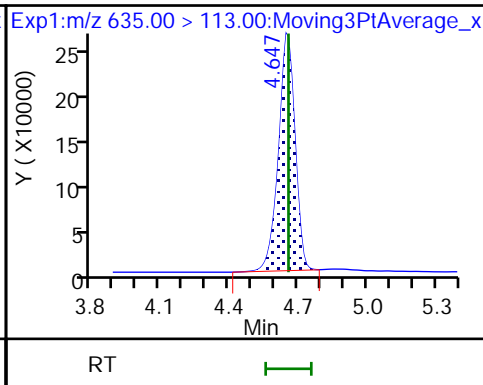
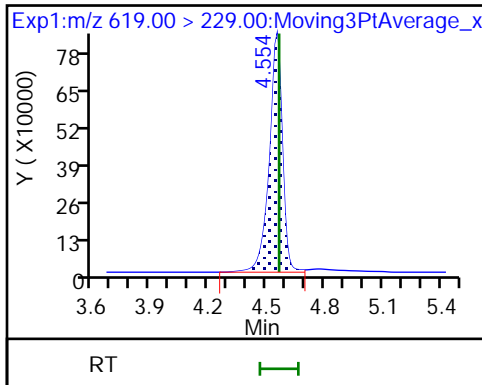
5 BFS_A4B



7 BFS_AB3

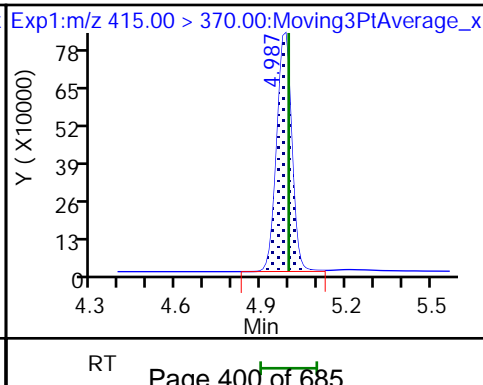
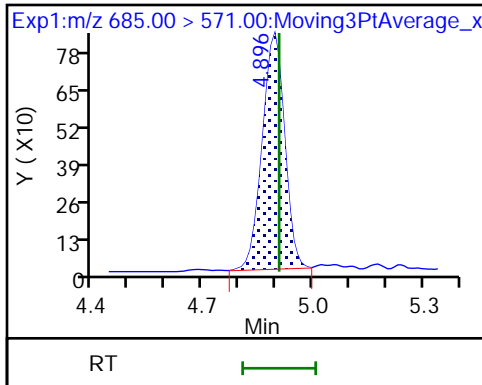
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

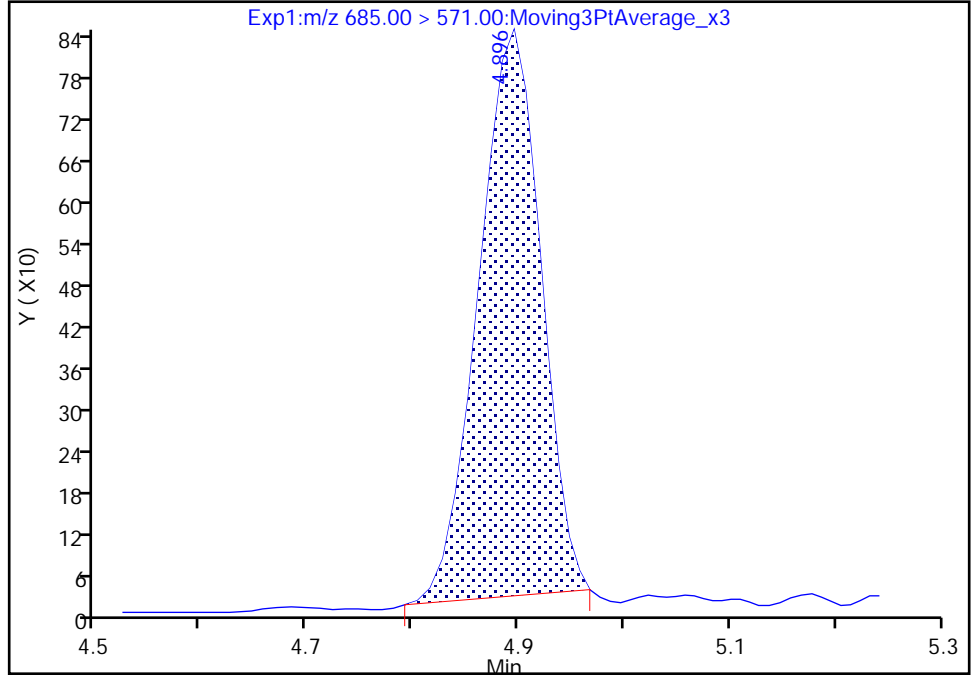
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Injection Date: 10-Aug-2022 03:04:31 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

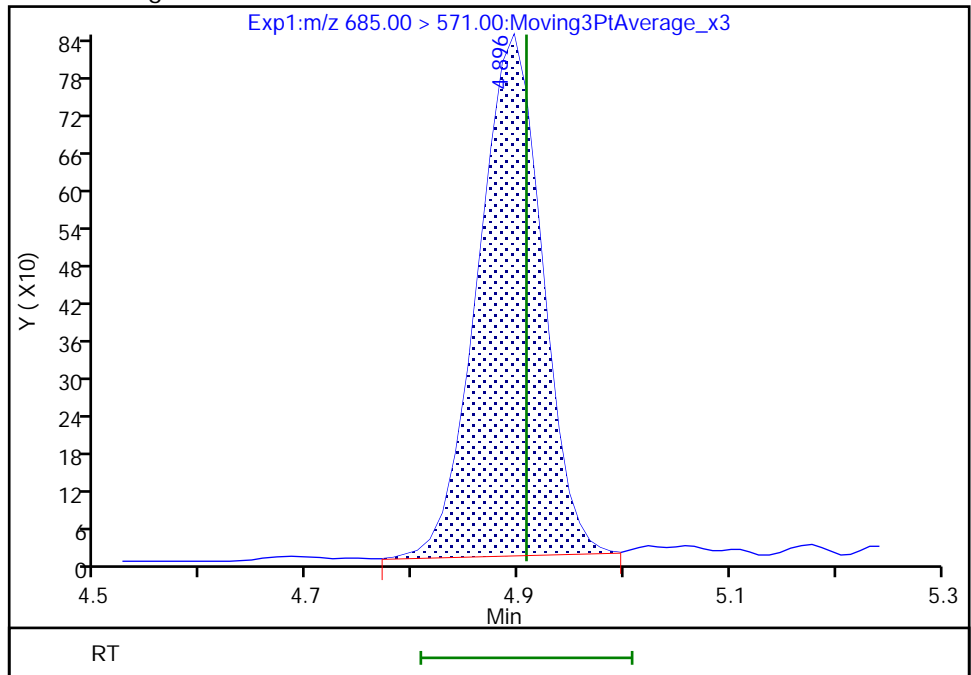
RT: 4.90
Area: 3359
Amount: 0.611411
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 3527
Amount: 0.642269
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:07:33
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284260/16 Calibration Date: 08/10/2022 05:35
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG09BFS-16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.485		9.93	8.91	11.5	30.0
BFS_A3B	Q2ID		1.849		12.1	9.95	22.0	30.0
BFS_B3	L1ID		0.9552		35.8	31.7	12.9	30.0
BFS_A2B2	L1ID		0.6593		80.7	69.4	16.3	30.0
BFS_A4B	L1ID		2.082		5.89	5.50	7.1	30.0
BFS_AB3	Q2ID		0.8023		79.6	74.4	7.0	30.0
BFS_A3B2	Q2ID		1.520		14.2	13.1	8.0	30.0
BFS_B4	L1ID		0.4957		18.8	17.3	8.6	30.0
BFS_A2B3	Q2ID		0.0510		1.56	1.31	19.4	30.0
13C3 HFPO-DA	Ave	0.2143	0.2106		4.91	5.00	-1.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-16.d
 Lims ID: CCV 4_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 10-Aug-2022 05:35:46 ALS Bottle#: 8 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:13 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 11:07:50

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.960	3.960	0.0	0.904	1744054	9.93	111	1861
2 BFS_A3B	519.00 > 113.00	4.042	4.042	0.0	0.923	2426863	12.1	122	156
3 BFS_B3	553.00 > 345.00	4.200	4.200	0.0	0.959	3991270	35.8	113	140
4 BFS_A2B2	569.00 > 229.00	4.296	4.304	-0.008	0.981	6033446	80.7	116	161
D 6 13C3 HFPO-DA	332.00 > 287.00	4.379	4.388	-0.009	0.878	659123	4.91	98.3	264
5 BFS_A4B	585.00 > 113.00	4.388	4.388	0.0	1.002	1510065	5.89	107	188
7 BFS_AB3	619.00 > 229.00	4.564	4.564	0.0	1.042	7867522	79.6	107	206
8 BFS_A3B2	635.00 > 113.00	4.657	4.657	0.0	1.063	2624081	14.2	108	184
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.094	1129666	18.8	109	225
10 BFS_A2B3	685.00 > 571.00	4.908	4.907	0.001	1.121	8803	1.56	119	129
									M
									M
* 11 13C2 PFOA	415.00 > 370.00	4.988	4.997	-0.009		3129695	5.00		320

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-16.d

Injection Date: 10-Aug-2022 05:35:46

Instrument ID: 30733

Lims ID: CCV 4_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

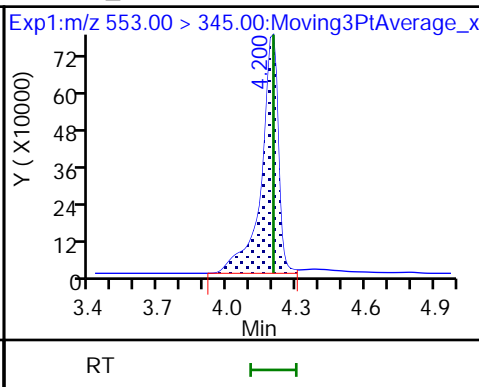
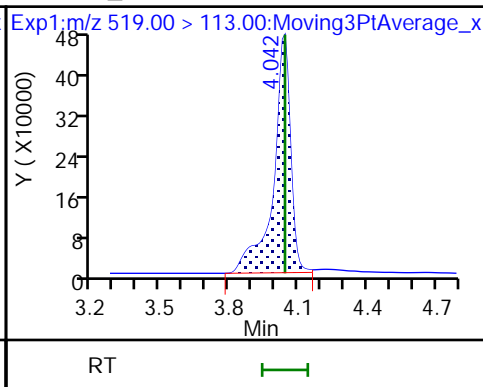
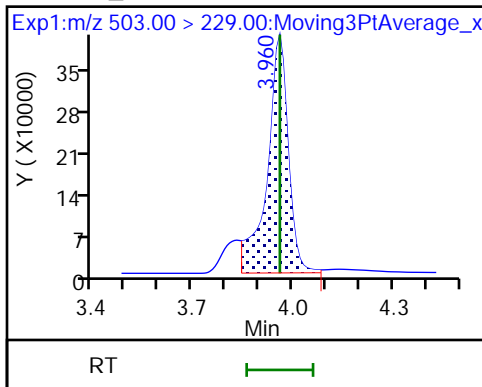
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

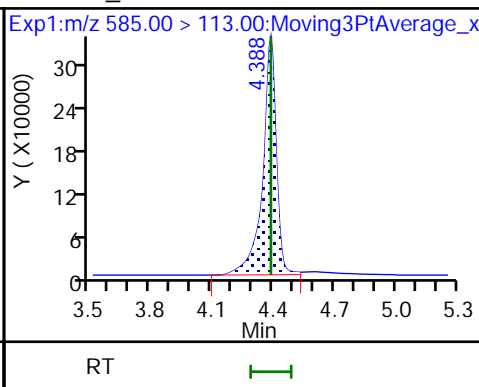
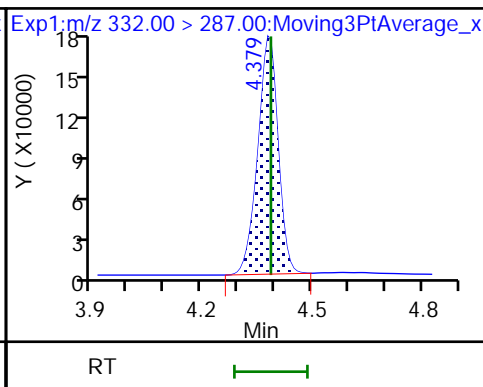
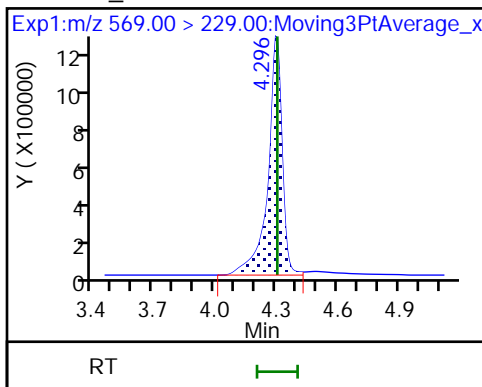
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

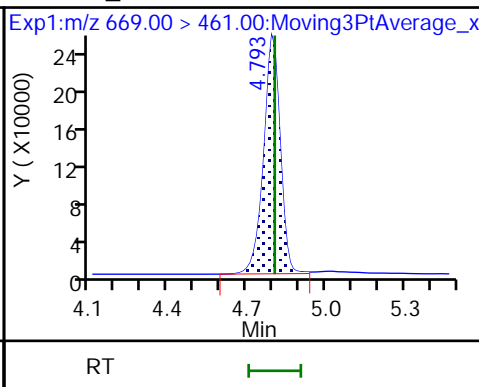
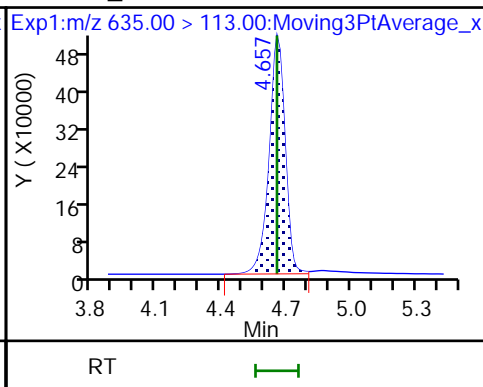
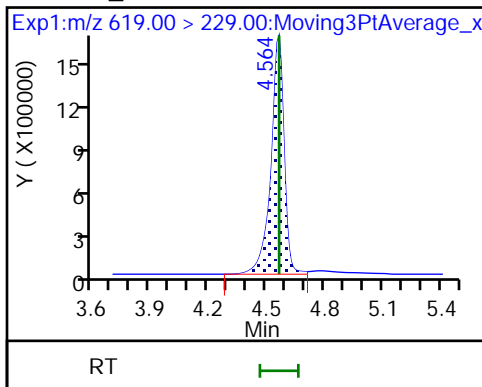
5 BFS_A4B



7 BFS_AB3

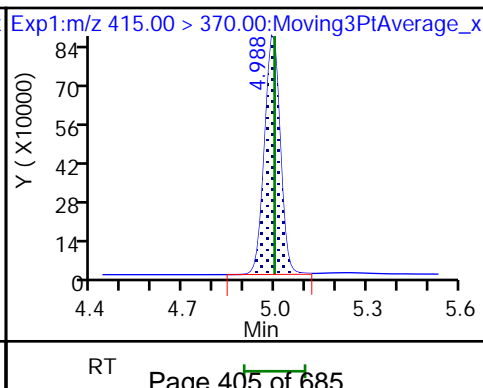
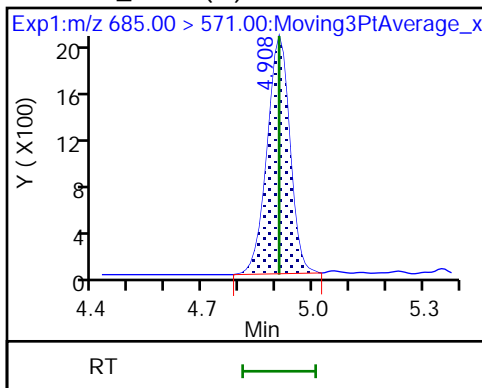
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

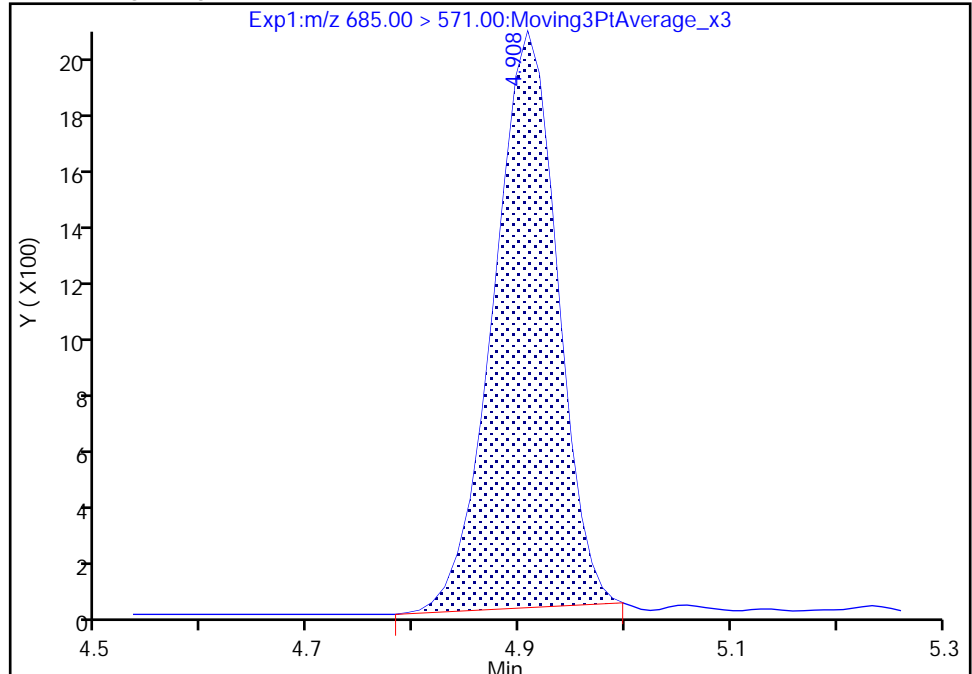
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Injection Date: 10-Aug-2022 05:35:46 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 16
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

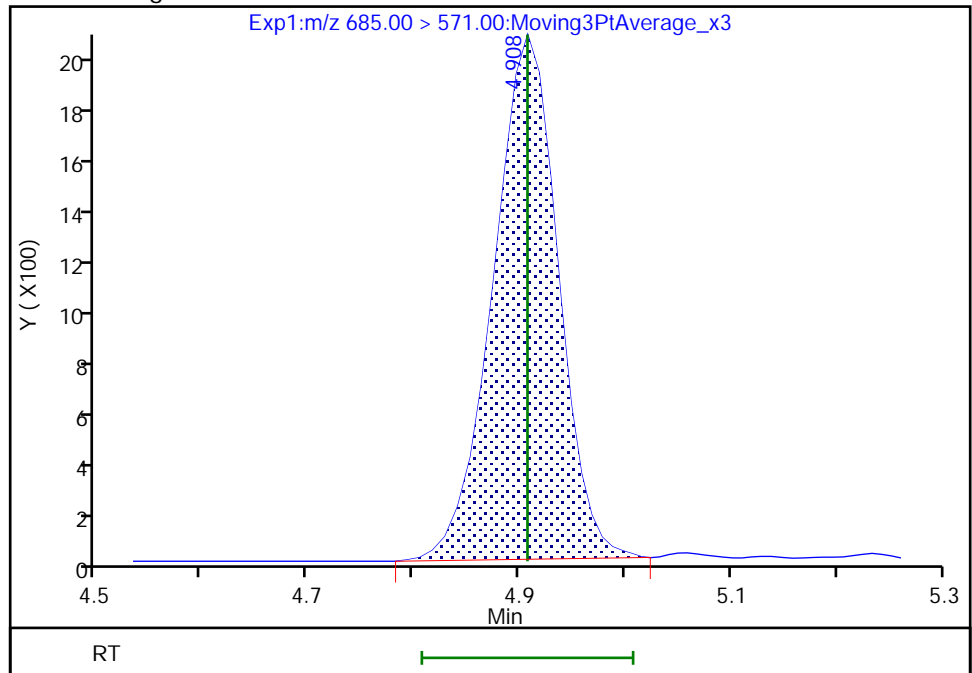
RT: 4.91
Area: 8608
Amount: 1.529124
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 8803
Amount: 1.563660
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:07:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: ICV 410-285706/12 Calibration Date: 08/14/2022 04:54
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.563		4.03	4.45	-9.5	30.0
BFS_A3B	L1ID		1.749		4.50	4.98	-9.6	30.0
BFS_B3	L1ID		1.014		15.0	15.8	-5.5	30.0
BFS_A2B2	Q2ID		0.6892		30.9	34.7	-11.1	30.0
BFS_A4B	L1ID		2.236		2.58	2.75	-6.3	30.0
BFS_AB3	Q2ID		0.9930		34.7	37.2	-6.8	30.0
BFS_A3B2	Q2ID		1.893		6.06	6.55	-7.5	30.0
BFS_B4	Q2ID		0.6315		8.13	8.64	-6.0	30.0
BFS_A2B3	L1ID		0.0597		0.583	0.655	-11.0	30.0
13C3 HFPO-DA	Ave	0.2006	0.2027		5.05	5.00	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 14-Aug-2022 04:54:44 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:31:00 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:27:08

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	795617	4.03	1065	
2 BFS_A3B	519.00 > 113.00	4.013	4.010	0.003	0.923	994785	4.50	33.9	
3 BFS_B3	553.00 > 345.00	4.165	4.163	0.002	0.958	1837351	15.0	53.2	
4 BFS_A2B2	569.00 > 229.00	4.266	4.263	0.003	0.981	2734540	30.9	74.3	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.349	4.346	0.003	0.878	571564	5.05	101	706
5 BFS_A4B	585.00 > 113.00	4.349	4.355	-0.006	1.000	703083	2.58	144	
7 BFS_AB3	619.00 > 229.00	4.528	4.525	0.003	1.041	4222364	34.7	798	
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	1416857	6.06	493	
9 BFS_B4	669.00 > 461.00	4.765	4.760	0.005	1.096	624028	8.13	510	
10 BFS_A2B3	685.00 > 571.00	4.868	4.874	-0.006	1.119	4472	0.5827	118	M
* 11 13C2 PFOA	415.00 > 370.00	4.951	4.958	-0.007		2819357	5.00	796	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_BFS_00006

Amount Added: 200.00

Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-12.d

Injection Date: 14-Aug-2022 04:54:44

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

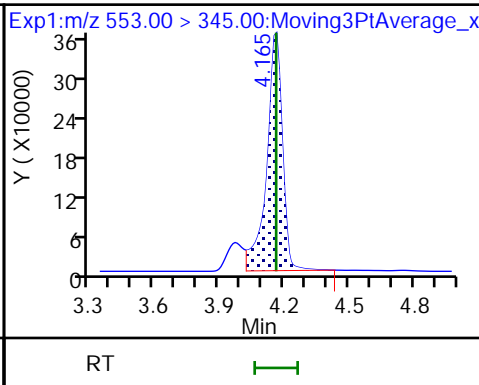
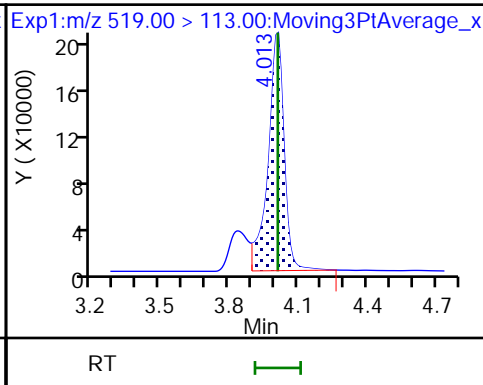
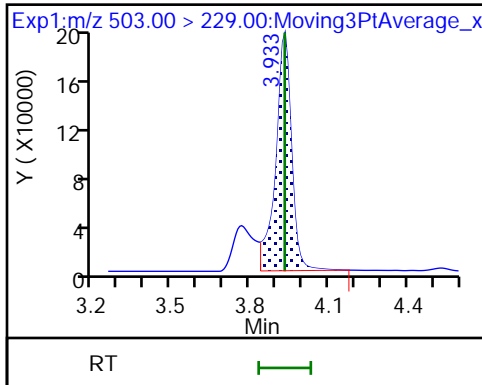
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

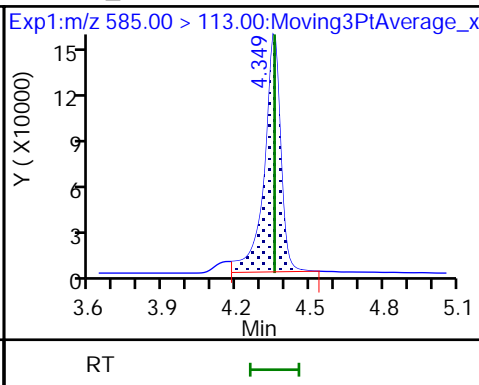
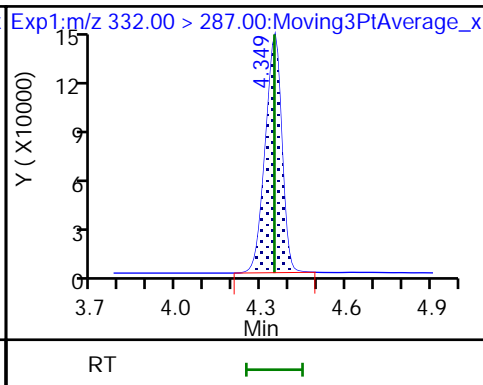
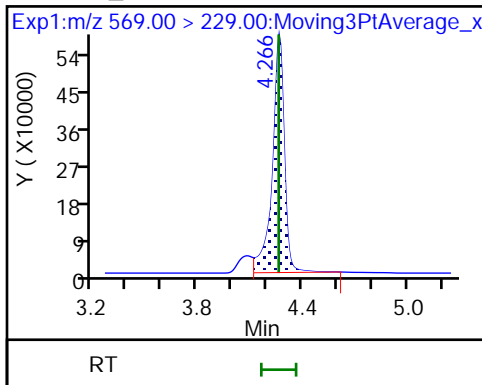
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

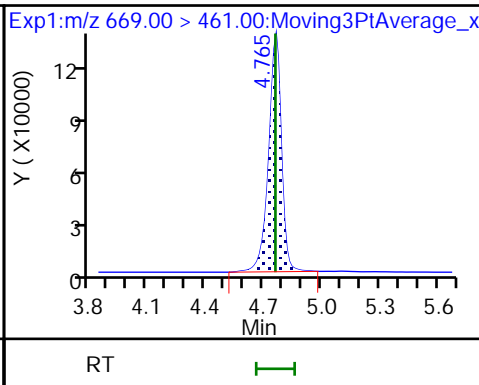
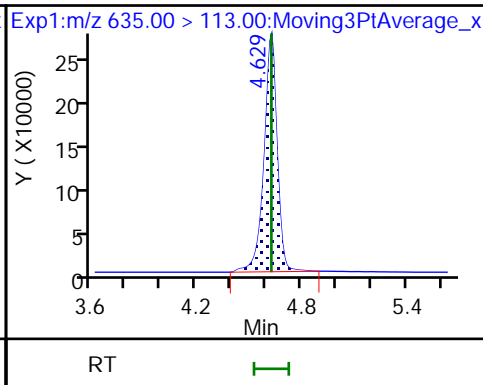
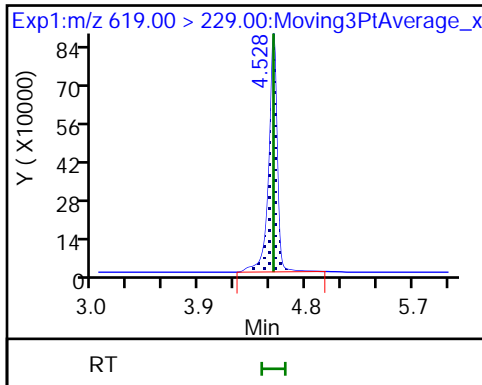
5 BFS_A4B



7 BFS_AB3

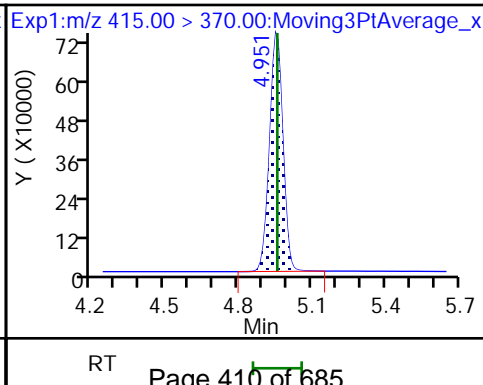
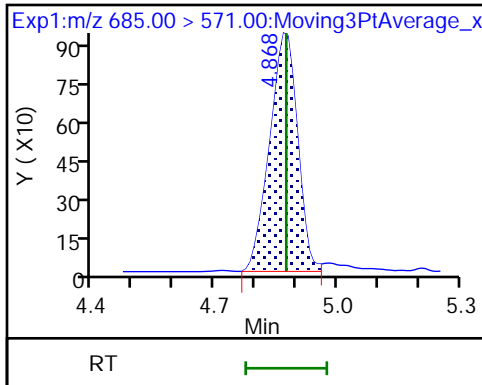
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

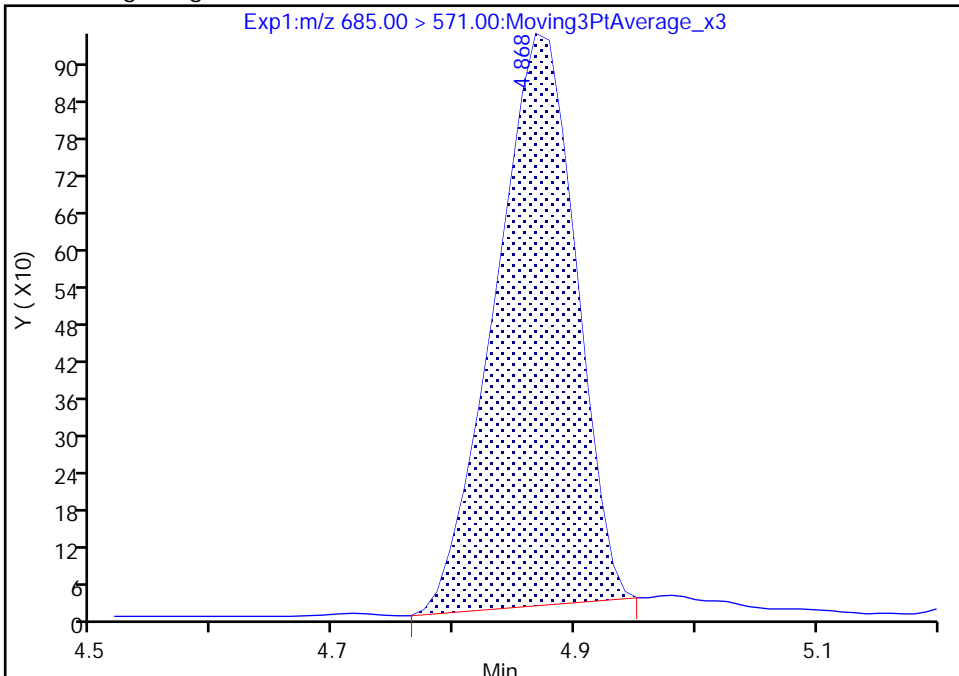
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-12.d
Injection Date: 14-Aug-2022 04:54:44 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

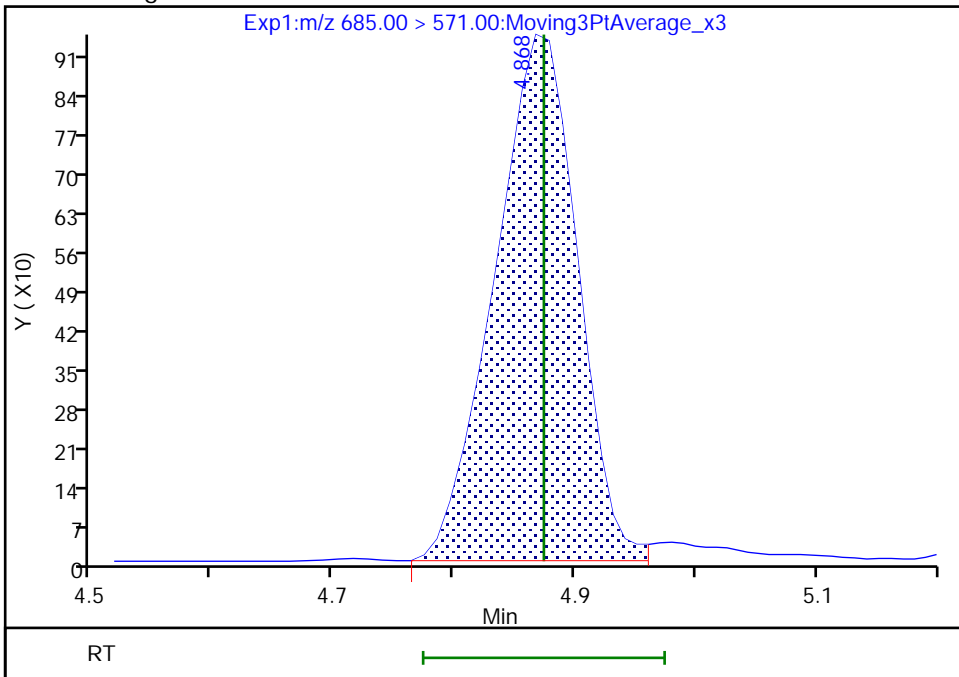
RT: 4.87
Area: 4293
Amount: 0.559384
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 4472
Amount: 0.582747
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:27:06
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-285708/1 Calibration Date: 08/14/2022 05:32
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.633		0.0476	0.0445	6.9	50.0
BFS_A3B	L1ID		1.743		0.0539	0.0498	8.2	50.0
BFS_B3	L1ID		0.9689		0.130	0.158	-17.9	50.0
BFS_A2B2	Q2ID		0.6996		0.366	0.347	5.4	50.0
BFS_A4B	L1ID		2.096		0.0239	0.0275	-13.2	50.0
BFS_AB3	Q2ID		0.9760		0.362	0.372	-2.6	50.0
BFS_A3B2	Q2ID		1.976		0.0667	0.0655	1.9	50.0
BFS_B4	Q2ID		0.6836		0.0861	0.0864	-0.4	50.0
BFS_A2B3	L1ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2006	0.2030		5.06	5.00	1.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 14-Aug-2022 05:32:33 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:03 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:34:53

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.923	3.932	-0.009	0.904	8979	0.0476	107	191	M
2 BFS_A3B									M
519.00 > 113.00	4.002	4.010	-0.008	0.922	10706	0.0539	108	34.2	M
3 BFS_B3									M
553.00 > 345.00	4.153	4.163	-0.010	0.957	18956	0.1302	82.1	35.5	M
4 BFS_A2B2									M
569.00 > 229.00	4.256	4.263	-0.007	0.981	29974	0.3660	105	75.6	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.340	4.346	-0.006	0.877	617233	5.06	101	724	
5 BFS_A4B									M
585.00 > 113.00	4.348	4.355	-0.007	1.002	7117	0.0239	86.8	86.3	M
7 BFS_AB3									M
619.00 > 229.00	4.518	4.525	-0.007	1.041	44814	0.3624	97.4	169	M
8 BFS_A3B2									M
635.00 > 113.00	4.618	4.627	-0.009	1.064	15972	0.0667	102	174	M
9 BFS_B4									
669.00 > 461.00	4.748	4.760	-0.012	1.094	7295	0.0861	99.6	64.3	
* 11 13C2 PFOA									
415.00 > 370.00	4.948	4.958	-0.010		3039983	5.00		882	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d

Injection Date: 14-Aug-2022 05:32:33

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

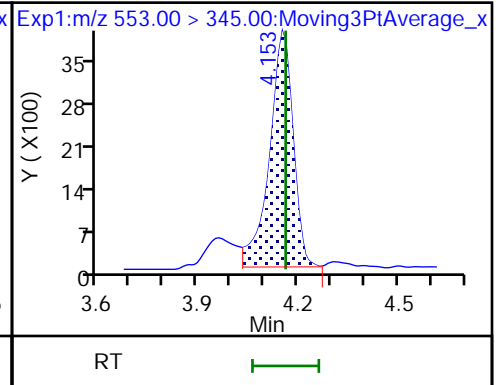
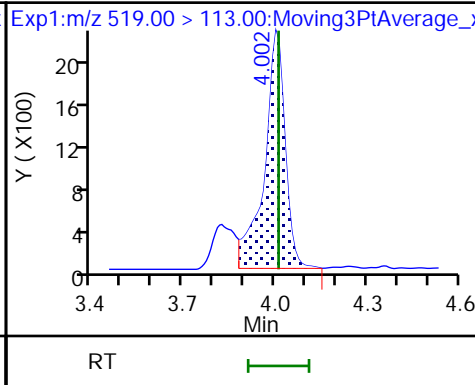
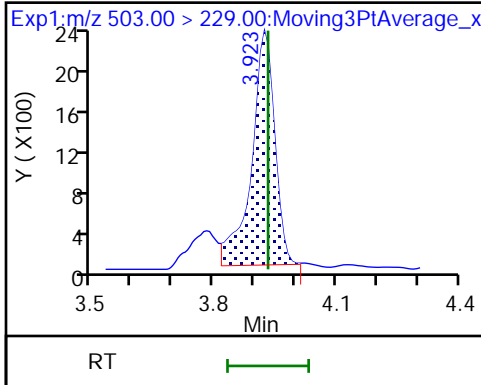
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

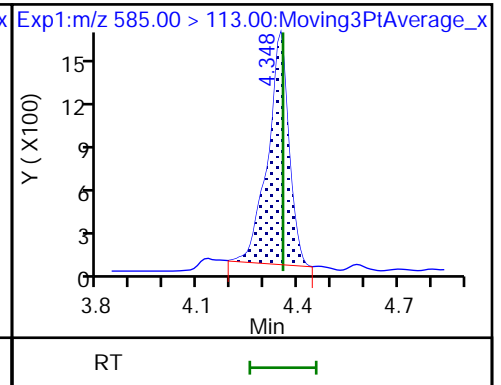
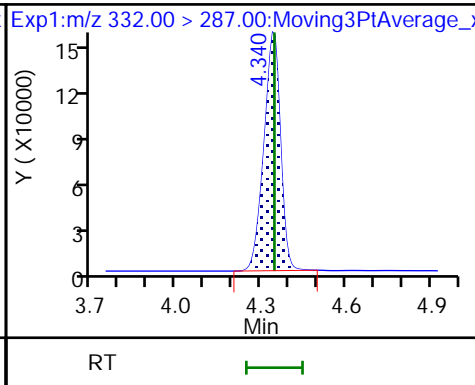
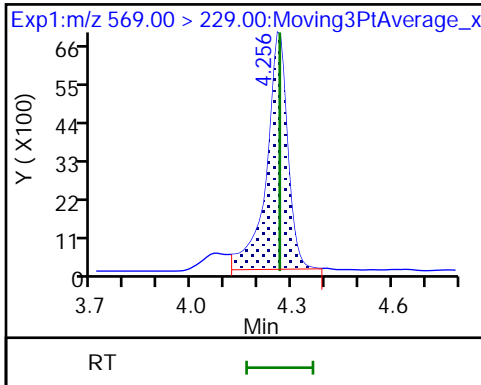
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

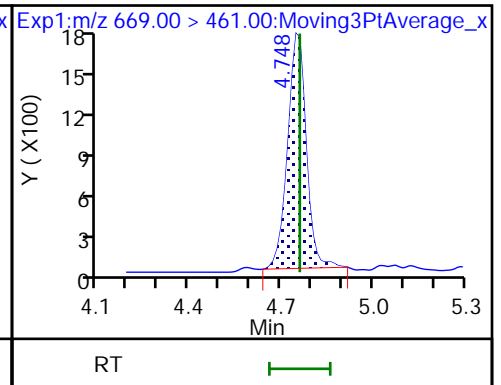
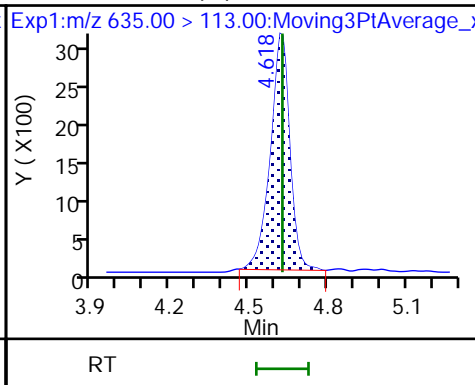
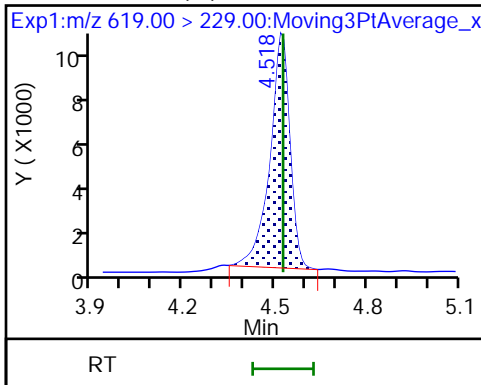
5 BFS_A4B (M)



7 BFS_AB3 (M)

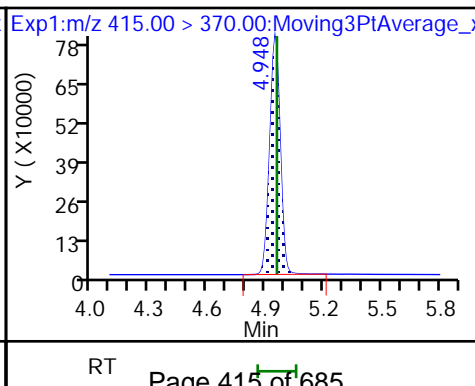
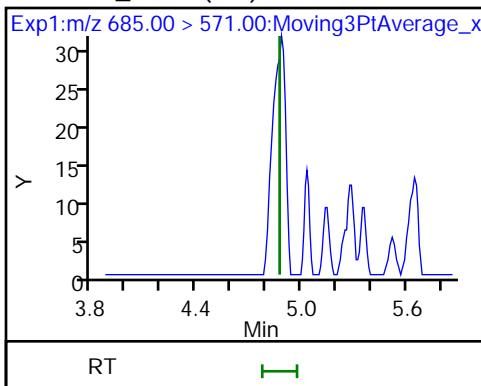
8 BFS_A3B2 (M)

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

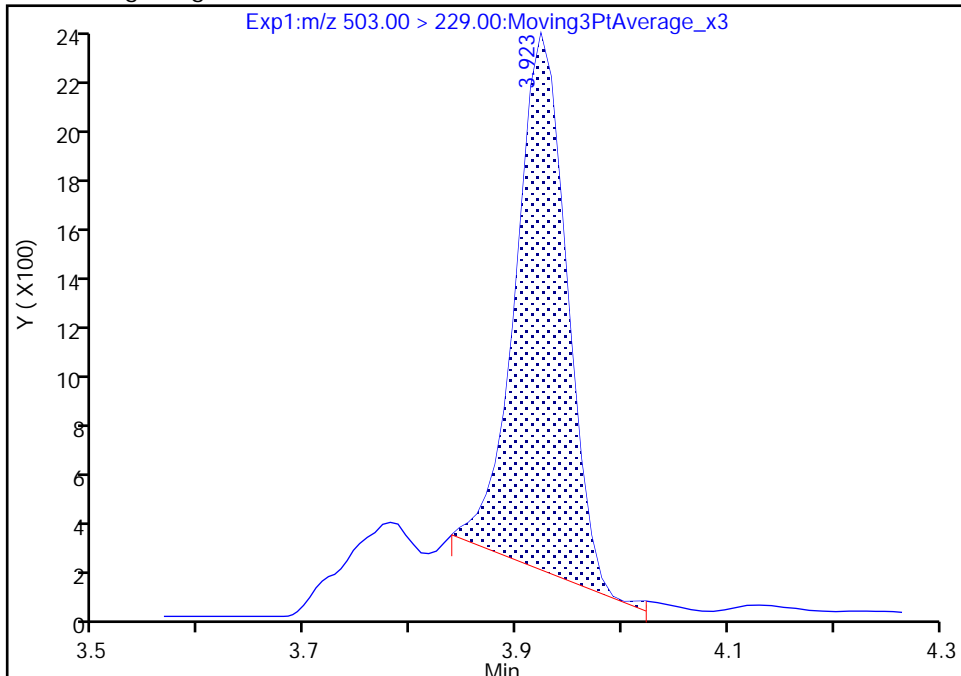
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Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

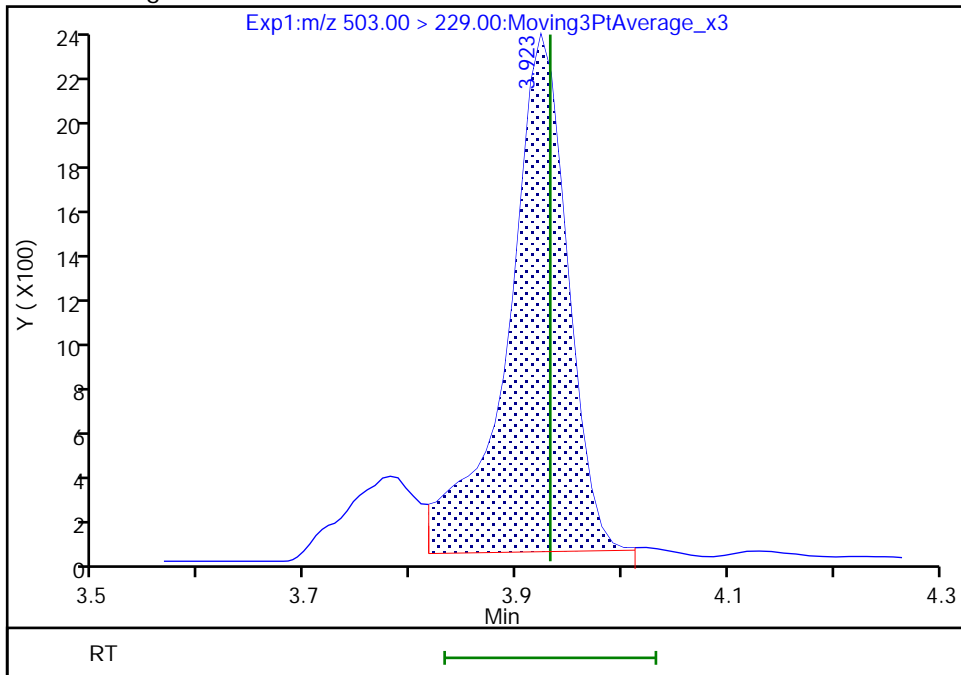
RT: 3.92
Area: 7219
Amount: 0.039344
Amount Units: ng/ml

Processing Integration Results



RT: 3.92
Area: 8979
Amount: 0.047587
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:14
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

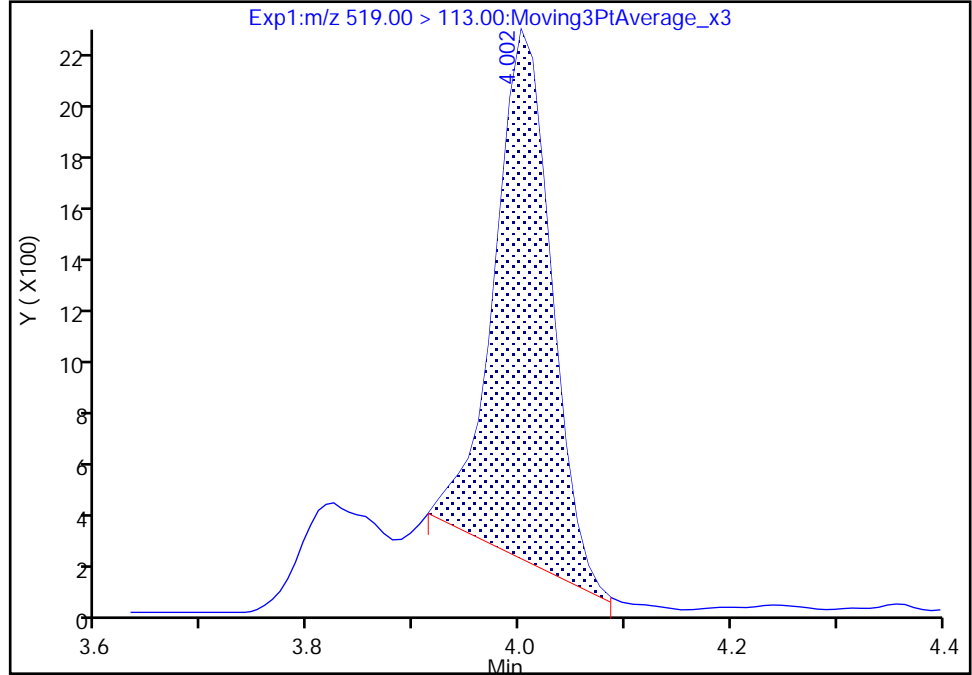
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

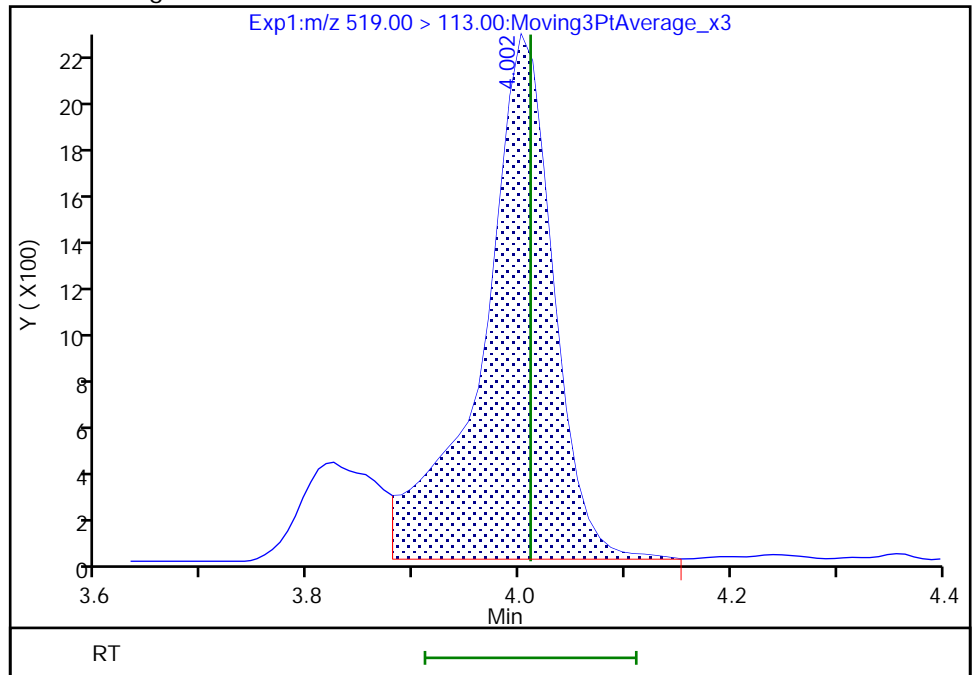
RT: 4.00
Area: 7858
Amount: 0.041956
Amount Units: ng/ml

Processing Integration Results



RT: 4.00
Area: 10706
Amount: 0.053854
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:19
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

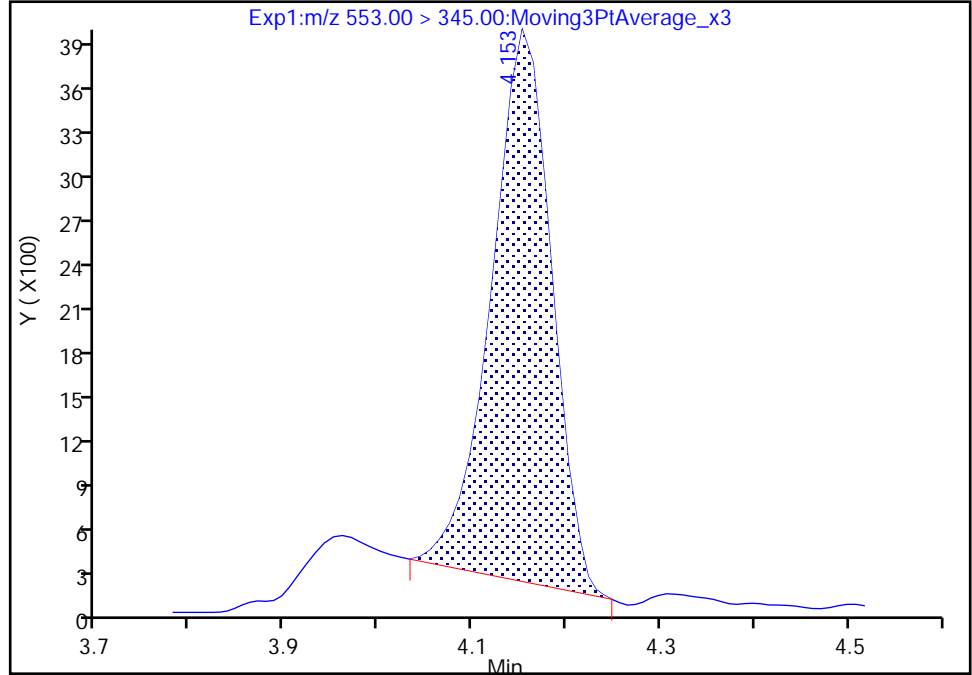
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Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

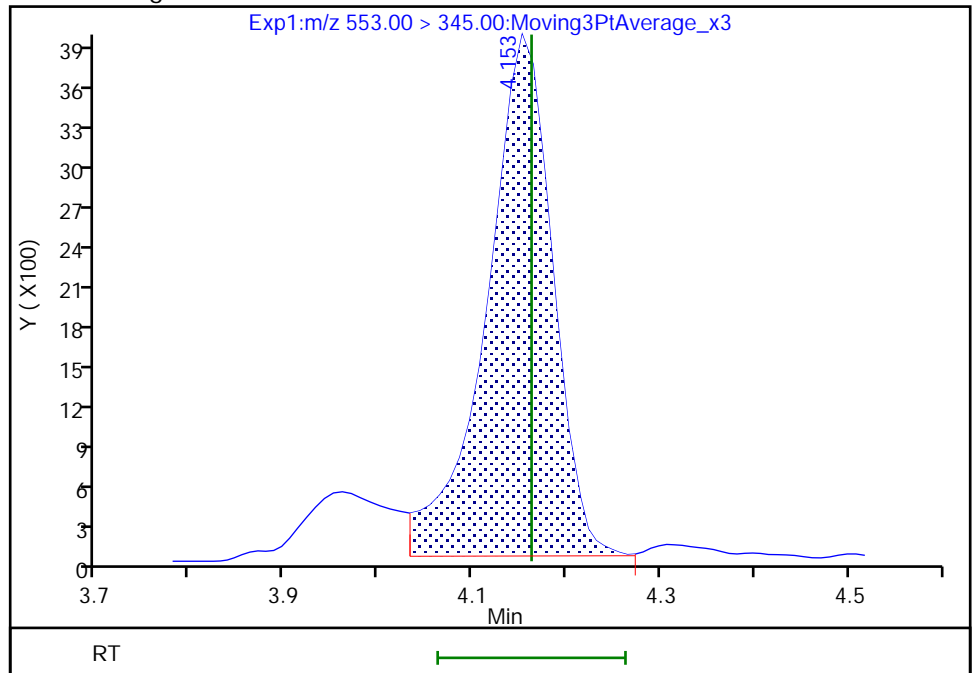
RT: 4.15
Area: 16557
Amount: 0.112061
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 18956
Amount: 0.130178
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:29
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

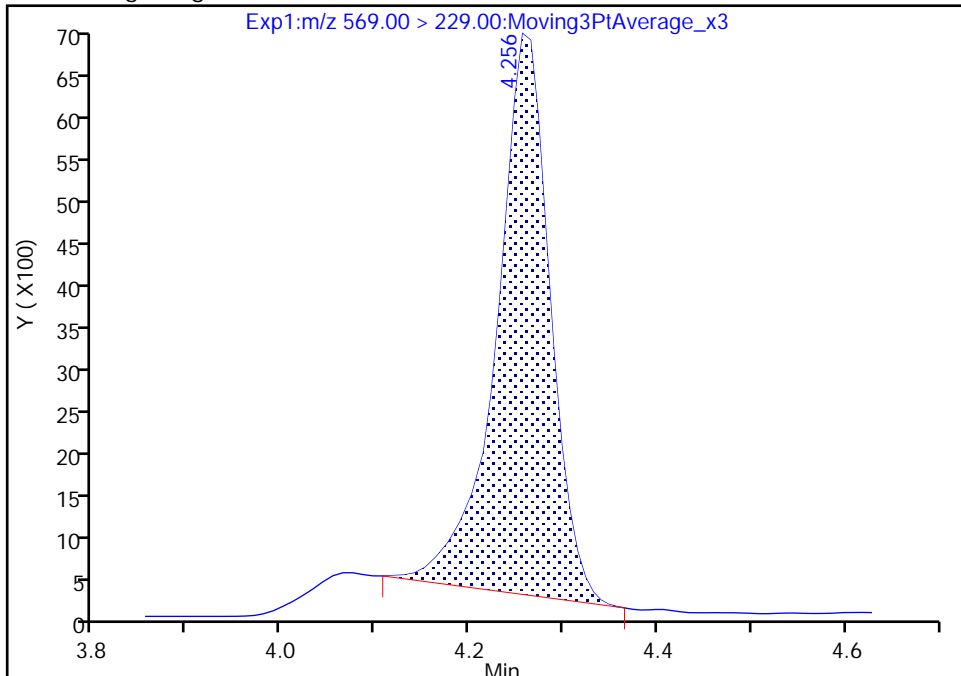
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

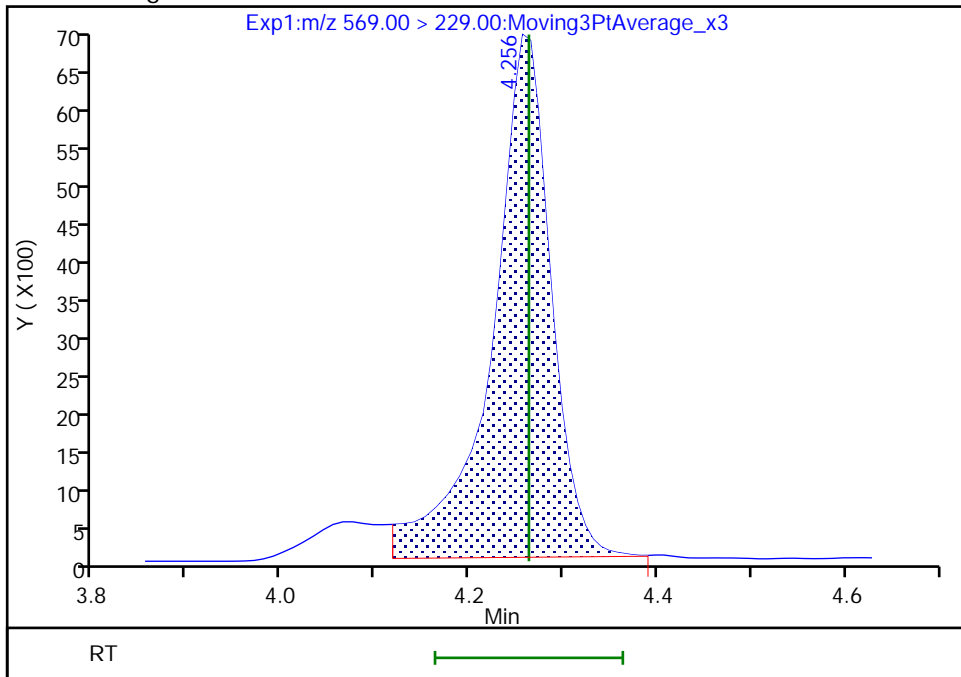
RT: 4.26
Area: 26508
Amount: 0.330070
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 29974
Amount: 0.365994
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:35
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

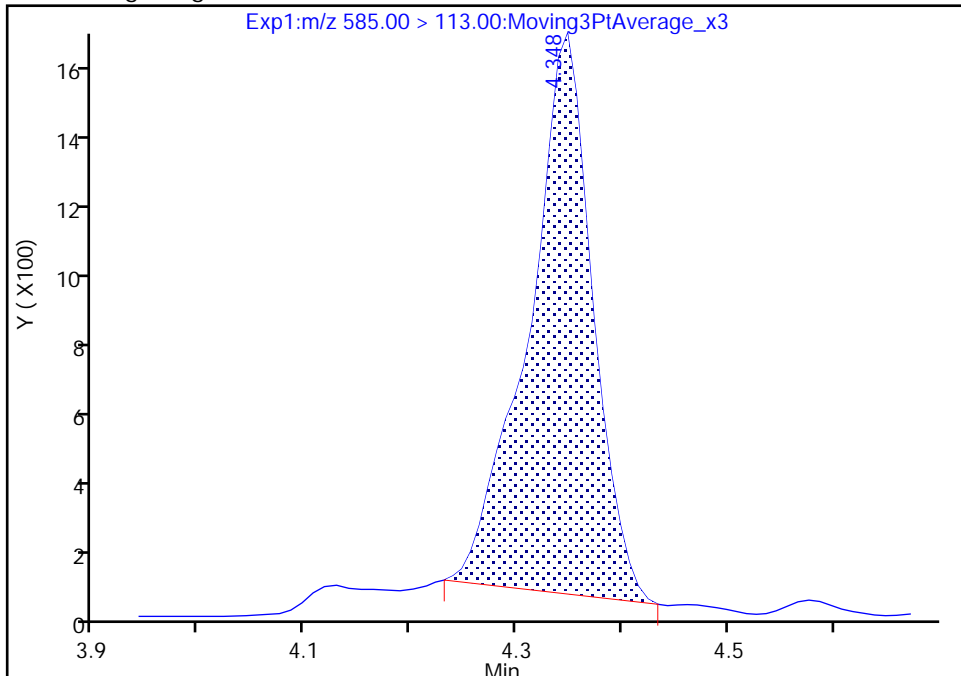
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Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

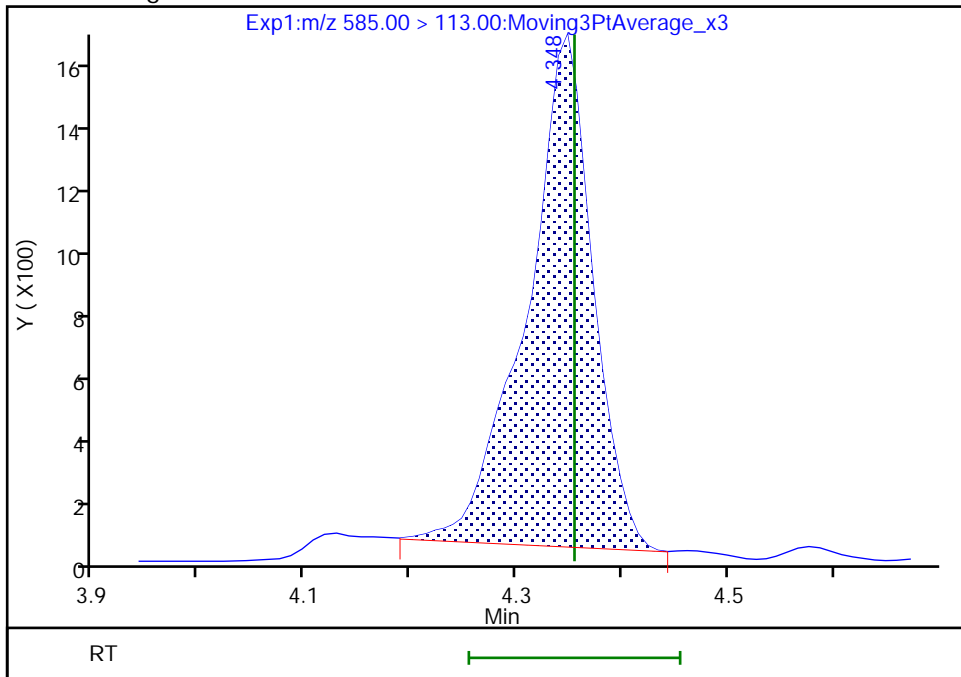
RT: 4.35
Area: 6799
Amount: 0.022807
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 7117
Amount: 0.023886
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:39
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

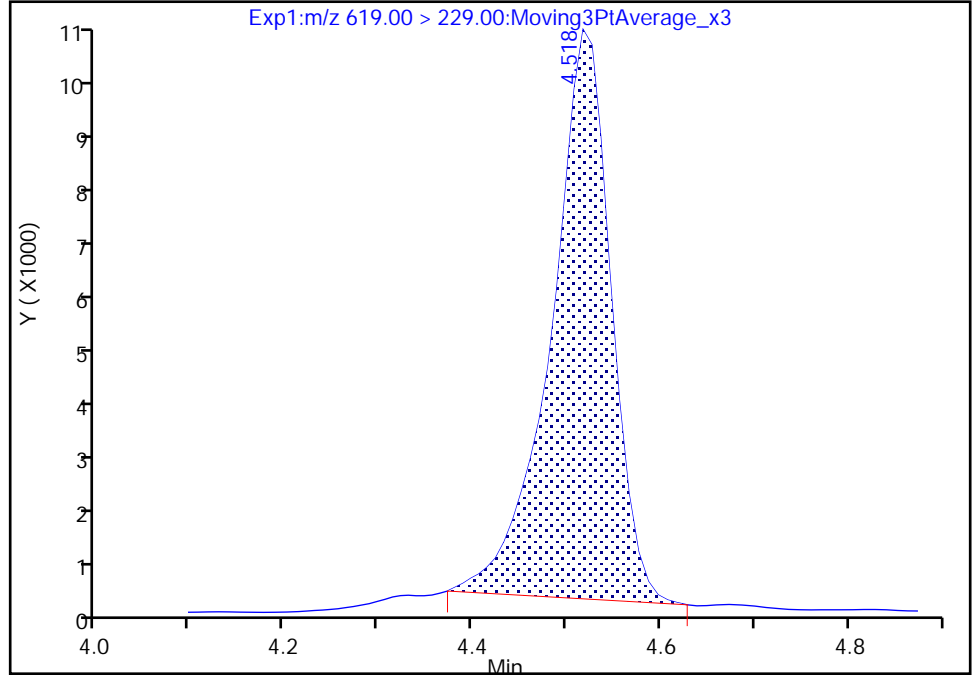
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

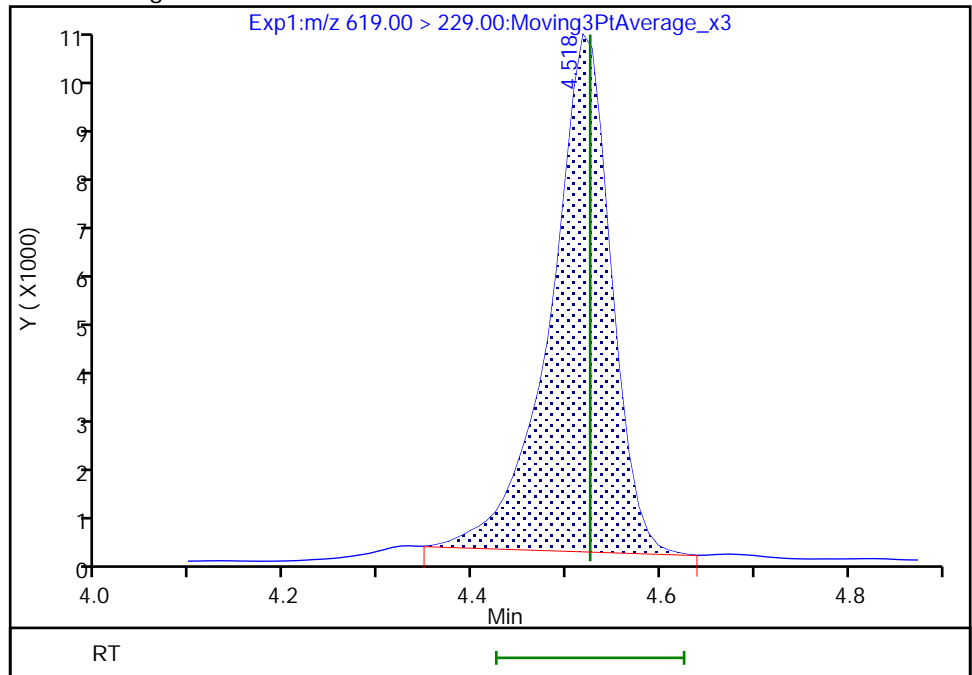
RT: 4.52
Area: 43795
Amount: 0.354716
Amount Units: ng/ml

Processing Integration Results



RT: 4.52
Area: 44814
Amount: 0.362380
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:44
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

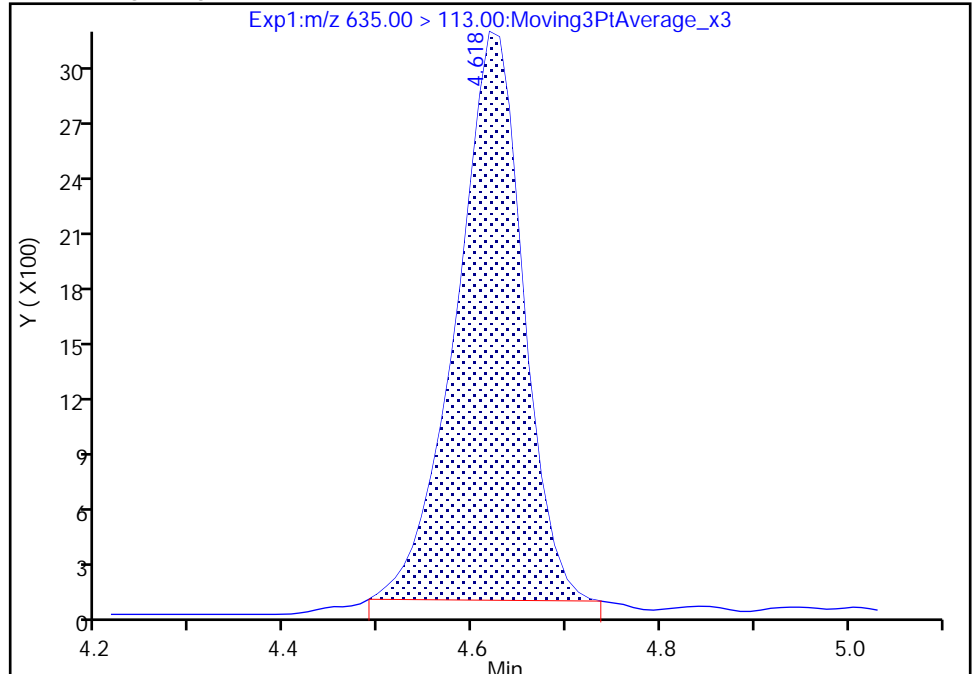
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

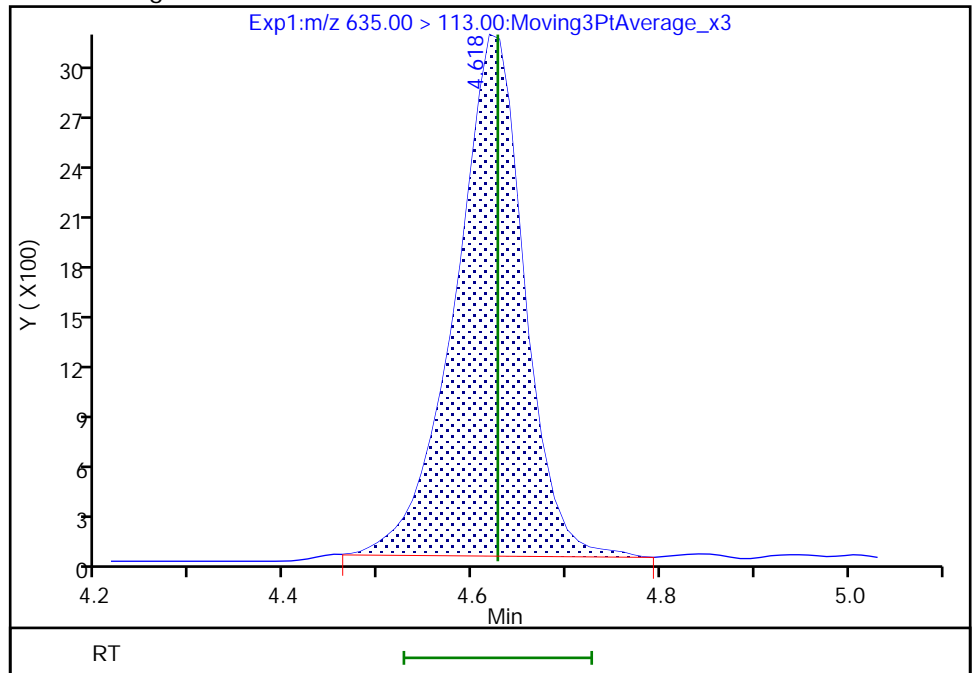
RT: 4.62
Area: 15189
Amount: 0.063645
Amount Units: ng/ml

Processing Integration Results



RT: 4.62
Area: 15972
Amount: 0.066725
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285708/2 Calibration Date: 08/14/2022 05:45
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.838		1.90	1.78	6.6	30.0
BFS_A3B	L1ID		1.992		2.05	1.99	3.2	30.0
BFS_B3	L1ID		1.129		6.66	6.34	5.1	30.0
BFS_A2B2	Q2ID		0.7982		14.3	13.9	2.8	30.0
BFS_A4B	L1ID		2.644		1.22	1.10	10.7	30.0
BFS_AB3	Q2ID		1.166		16.2	14.9	9.0	30.0
BFS_A3B2	Q2ID		2.231		2.85	2.62	8.8	30.0
BFS_B4	Q2ID		0.7062		3.63	3.46	5.0	30.0
BFS_A2B3	L1ID		0.0717		0.279	0.262	6.6	30.0
13C3 HFPO-DA	Ave	0.2006	0.1991		4.96	5.00	-0.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-16.d
 Lims ID: CCV 2_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Aug-2022 05:45:07 ALS Bottle#: 6 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:35:10

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.924	3.932	-0.008	0.904	383904	1.90	107	1017
2 BFS_A3B	519.00 > 113.00	4.003	4.010	-0.007	0.922	465152	2.05	103	31.8
3 BFS_B3	553.00 > 345.00	4.154	4.163	-0.009	0.957	839466	6.66	105	49.4
4 BFS_A2B2	569.00 > 229.00	4.266	4.263	0.003	0.983	1299602	14.3	103	78.9
D 6 13C3 HFPO-DA	332.00 > 287.00	4.341	4.346	-0.005	0.877	586382	4.96	99.3	621
5 BFS_A4B	585.00 > 113.00	4.349	4.355	-0.006	1.002	341170	1.22	111	101
7 BFS_AB3	619.00 > 229.00	4.528	4.525	0.003	1.043	2034926	16.2	109	619
8 BFS_A3B2	635.00 > 113.00	4.619	4.627	-0.008	1.064	685334	2.85	109	458
9 BFS_B4	669.00 > 461.00	4.765	4.760	0.004	1.098	286382	3.63	105	408
10 BFS_A2B3	685.00 > 571.00	4.867	4.874	-0.007	1.121	2202	0.2792	107	57.4
									M
									M
* 11 13C2 PFOA	415.00 > 370.00	4.951	4.958	-0.007		2944460	5.00		774

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-16.d

Injection Date: 14-Aug-2022 05:45:07

Instrument ID: 30733

Lims ID: CCV_2_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

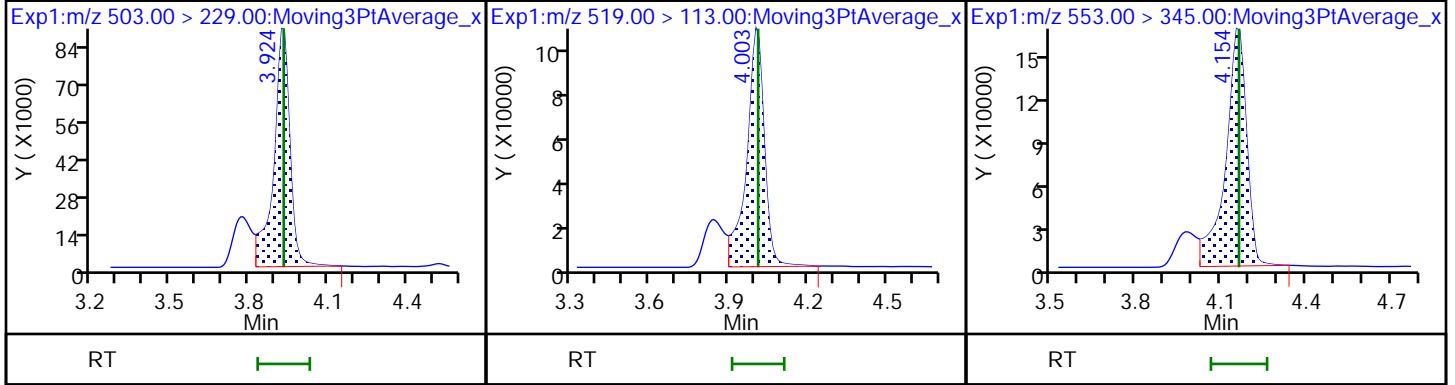
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

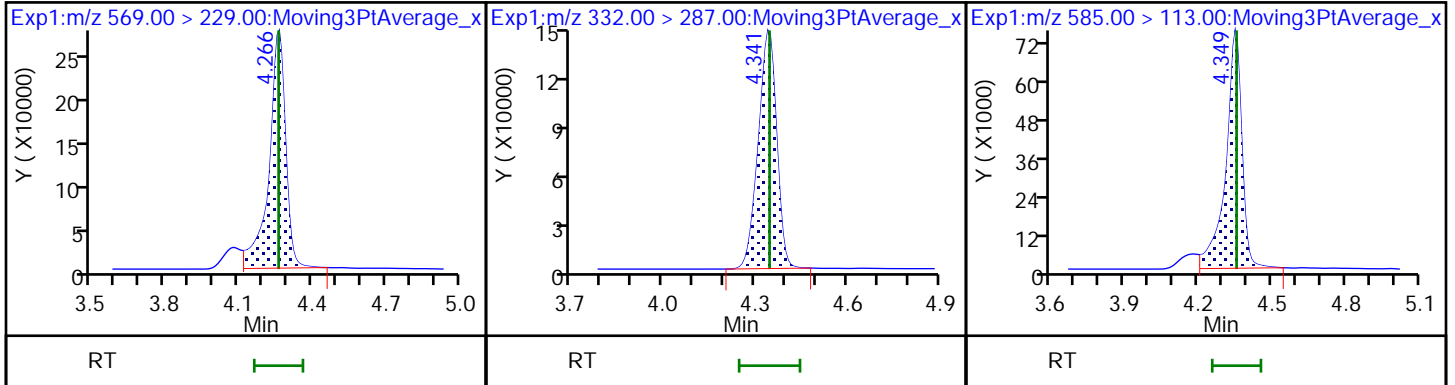
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

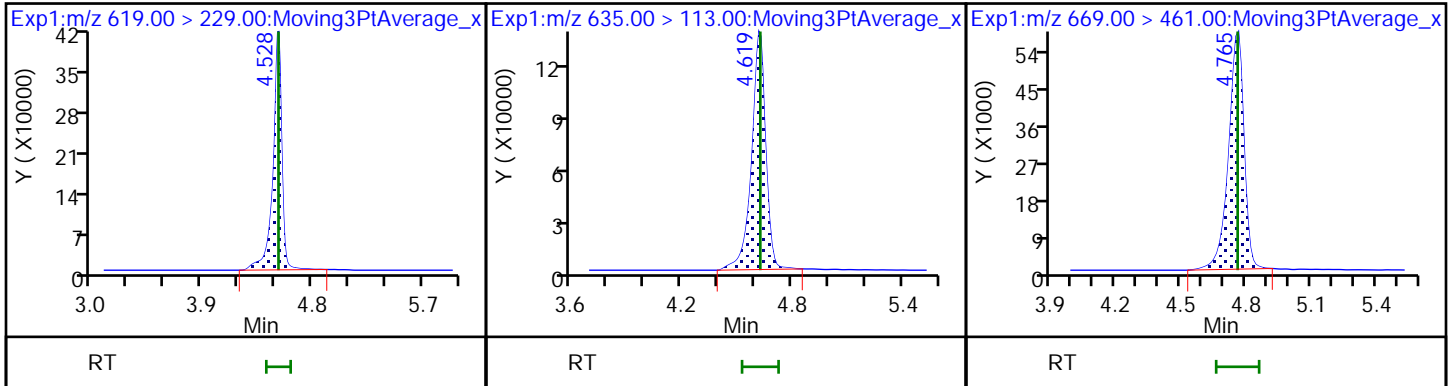
5 BFS_A4B



7 BFS_AB3

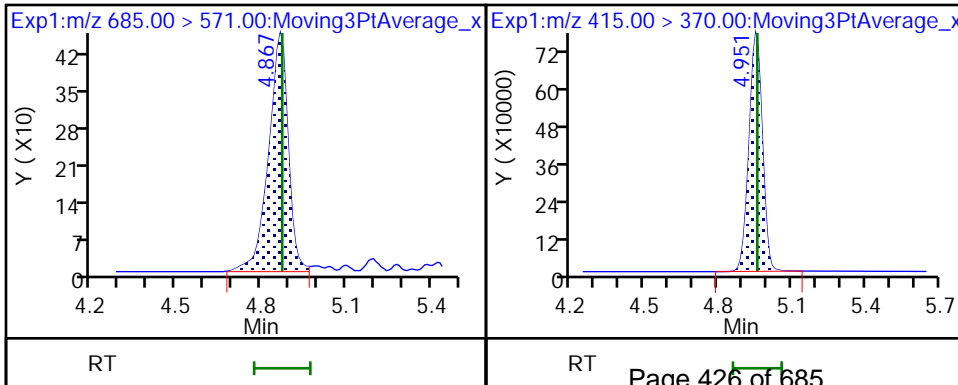
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

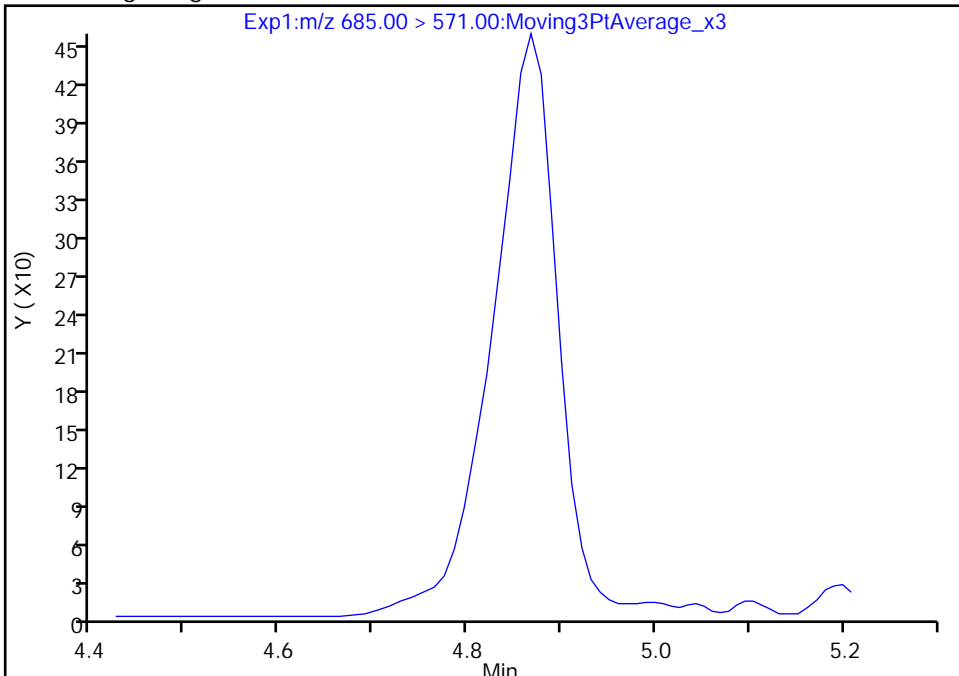
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-16.d
Injection Date: 14-Aug-2022 05:45:07 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

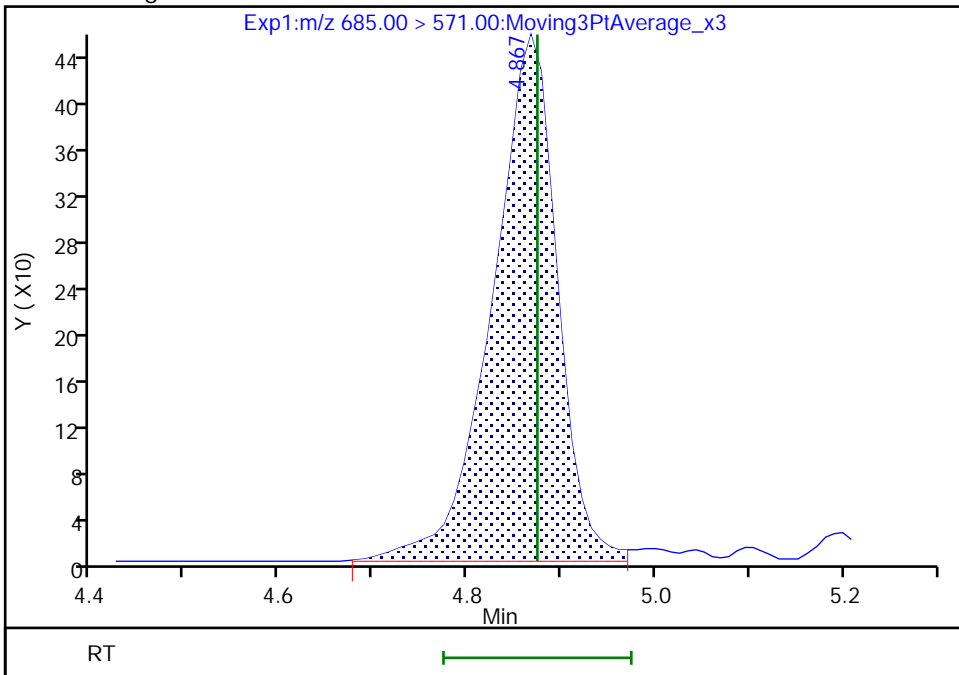
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.87
Area: 2202
Amount: 0.279211
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:35:05
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285708/16 Calibration Date: 08/14/2022 08:41
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-30.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.627		4.19	4.45	-5.8	30.0
BFS_A3B	L1ID		1.842		4.74	4.98	-4.8	30.0
BFS_B3	L1ID		1.059		15.6	15.8	-1.3	30.0
BFS_A2B2	Q2ID		0.7467		33.5	34.7	-3.6	30.0
BFS_A4B	L1ID		2.455		2.83	2.75	2.8	30.0
BFS_AB3	Q2ID		1.033		36.1	37.2	-3.0	30.0
BFS_A3B2	Q2ID		2.012		6.44	6.55	-1.6	30.0
BFS_B4	Q2ID		0.6572		8.46	8.64	-2.1	30.0
BFS_A2B3	L1ID		0.0664		0.648	0.655	-1.0	30.0
13C3 HFPO-DA	Ave	0.2006	0.2044		5.10	5.00	1.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-30.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Aug-2022 08:41:32 ALS Bottle#: 7 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:01 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:35:22

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.905	882076	4.19	94.2	1166
2 BFS_A3B	519.00 > 113.00	4.011	4.010	0.001	0.923	1116162	4.74	95.2	38.3
3 BFS_B3	553.00 > 345.00	4.163	4.163	0.0	0.958	2043936	15.6	98.7	48.2
4 BFS_A2B2	569.00 > 229.00	4.264	4.263	0.001	0.981	3155140	33.5	96.4	86.3
D 6 13C3 HFPO-DA	332.00 > 287.00	4.347	4.346	0.001	0.877	608702	5.10	102	695
5 BFS_A4B	585.00 > 113.00	4.355	4.355	0.0	1.002	822005	2.83	103	338
7 BFS_AB3	619.00 > 229.00	4.526	4.525	0.001	1.041	4678421	36.1	97.0	607
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.064	1604248	6.44	98.4	526
9 BFS_B4	669.00 > 461.00	4.761	4.760	0.001	1.095	691574	8.46	97.9	532
10 BFS_A2B3	685.00 > 571.00	4.875	4.874	0.001	1.121	5296	0.6481	99.0	232 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2977389	5.00		851

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-30.d

Injection Date: 14-Aug-2022 08:41:32

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

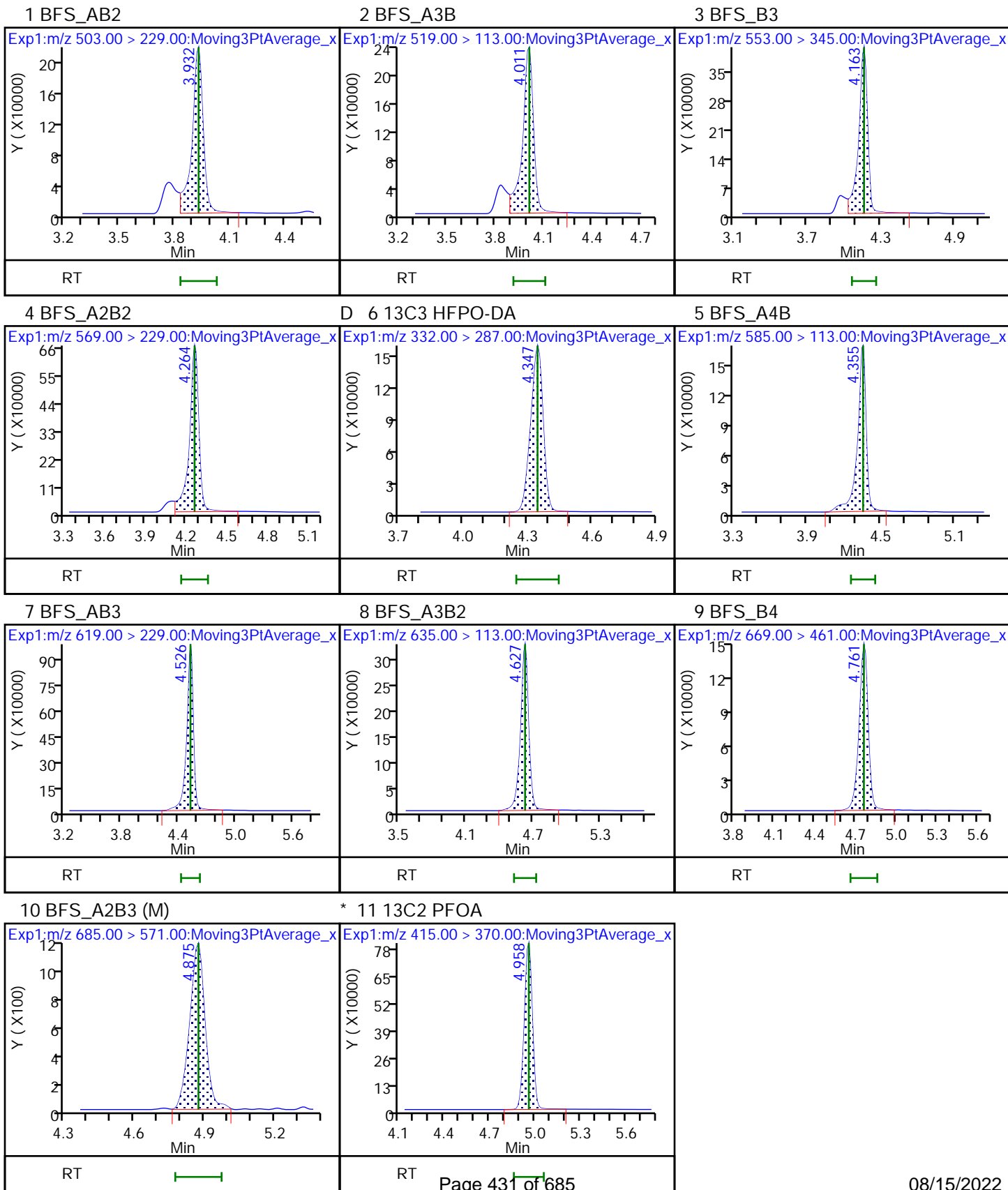
Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

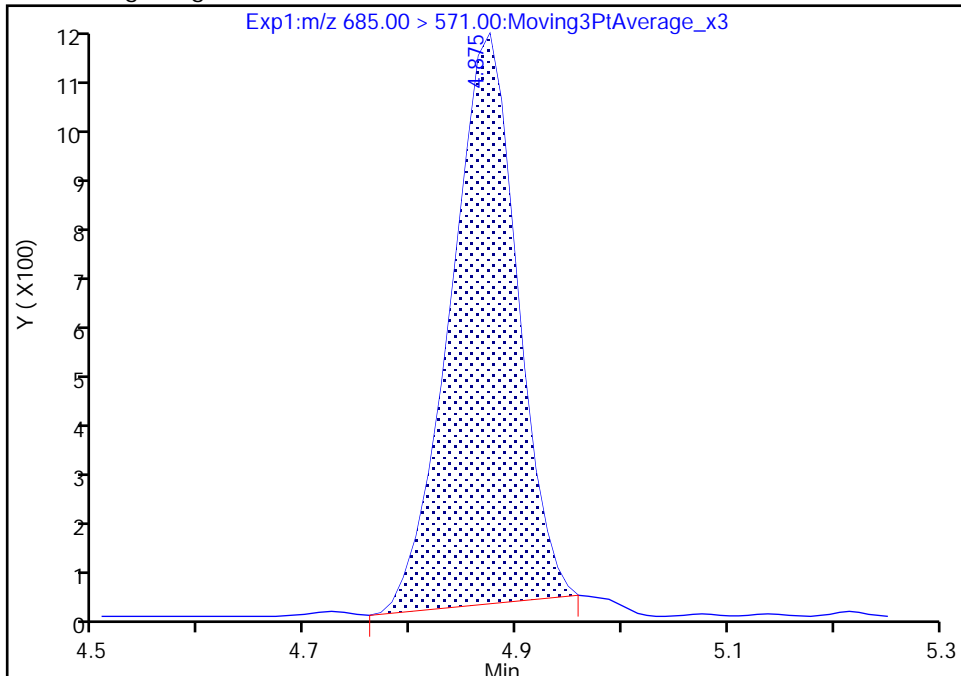
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-30.d
Injection Date: 14-Aug-2022 08:41:32 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 16
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

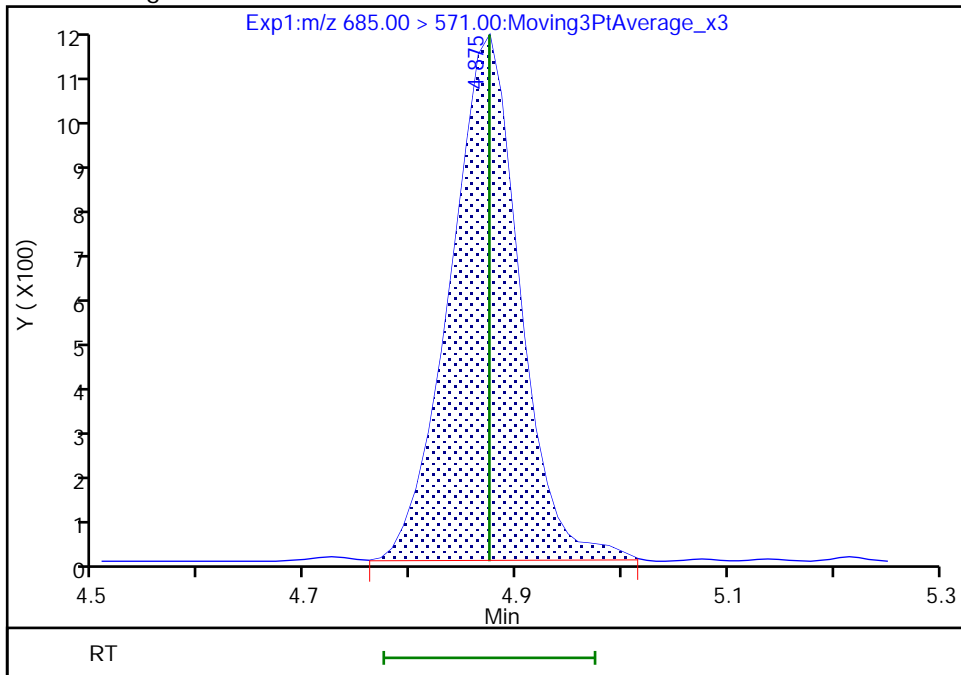
RT: 4.87
Area: 4966
Amount: 0.607678
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 5296
Amount: 0.648120
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:35:18
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-285953/1 Calibration Date: 08/15/2022 09:11
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG15BFS-05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.785		0.0515	0.0445	15.7	50.0
BFS_A3B	L1ID		1.798		0.0553	0.0498	11.1	50.0
BFS_B3	L1ID		1.118		0.152	0.158	-3.9	50.0
BFS_A2B2	Q2ID		0.7767		0.400	0.347	15.3	50.0
BFS_A4B	L1ID		2.241		0.0256	0.0275	-7.1	50.0
BFS_AB3	Q2ID		1.021		0.378	0.372	1.6	50.0
BFS_A3B2	Q2ID		1.977		0.0668	0.0655	2.0	50.0
BFS_B4	Q2ID		0.6526		0.0821	0.0864	-5.0	50.0
BFS_A2B3	L1ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2006	0.2085		5.20	5.00	3.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 15-Aug-2022 09:11:54 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:11 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:29:47

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.942	3.932	0.010	0.903	10272	0.0515	116	224	M
2 BFS_A3B									M
519.00 > 113.00	4.021	4.008	0.013	0.922	11559	0.0553	111	81.4	M
3 BFS_B3									M
553.00 > 345.00	4.175	4.161	0.014	0.957	22893	0.1522	96.1	92.9	M
4 BFS_A2B2									
569.00 > 229.00	4.288	4.267	0.021	0.983	34827	0.4002	115	227	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.363	4.348	0.015	0.877	645958	5.20	104	736	
5 BFS_A4B									
585.00 > 113.00	4.372	4.353	0.019	1.002	7963	0.0256	92.9	125	
7 BFS_AB3									
619.00 > 229.00	4.544	4.525	0.019	1.041	49073	0.3780	102	357	
8 BFS_A3B2									
635.00 > 113.00	4.647	4.627	0.020	1.065	16726	0.0668	102	236	
9 BFS_B4									M
669.00 > 461.00	4.782	4.762	0.020	1.096	7288	0.0821	95.0	40.4	M
* 11 13C2 PFOA									
415.00 > 370.00	4.977	4.958	0.019		3098397	5.00		864	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d

Injection Date: 15-Aug-2022 09:11:54

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

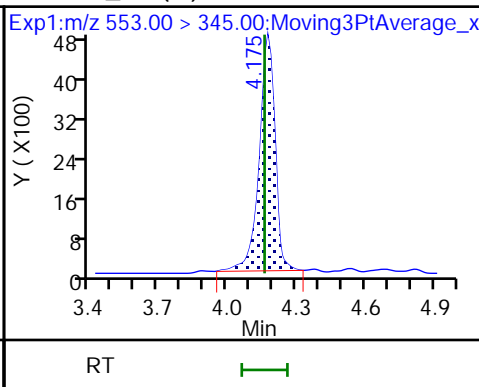
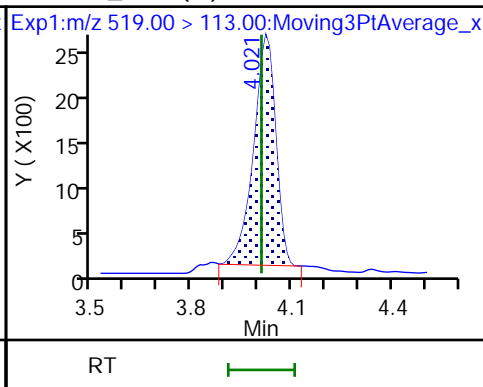
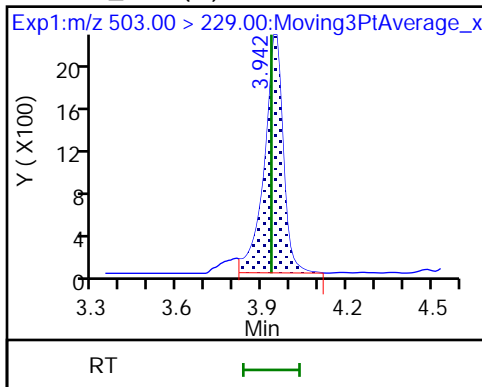
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

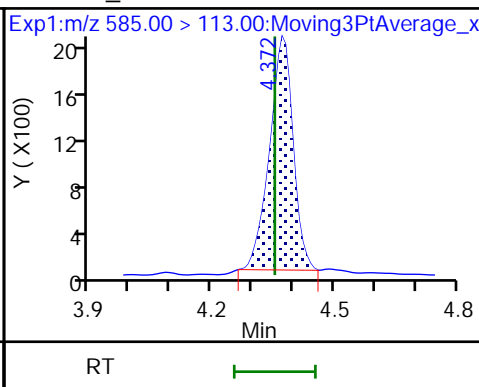
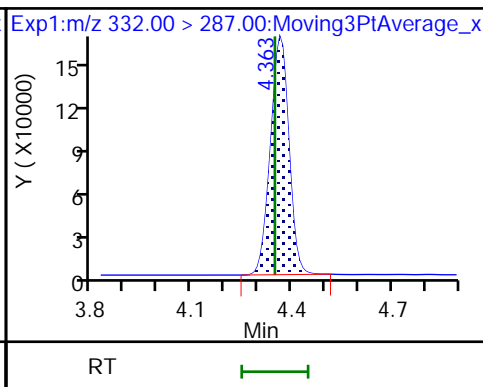
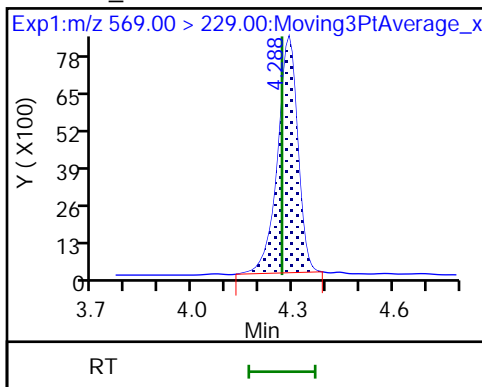
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

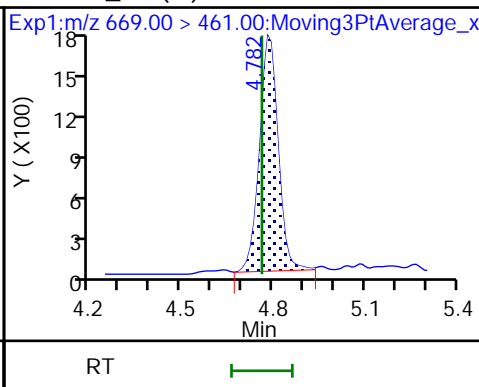
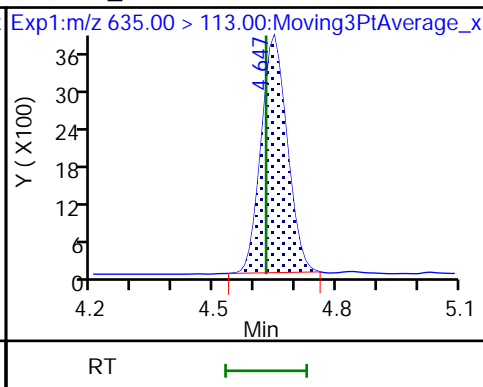
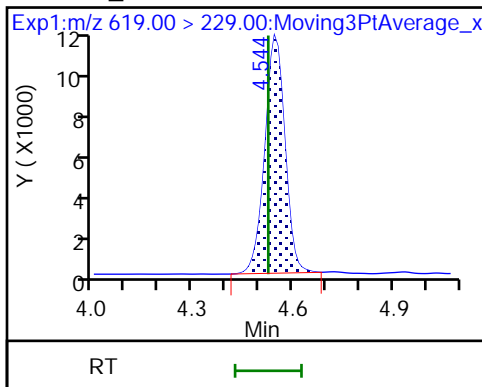
5 BFS_A4B



7 BFS_AB3

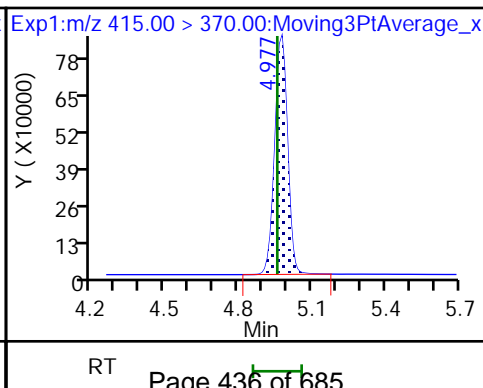
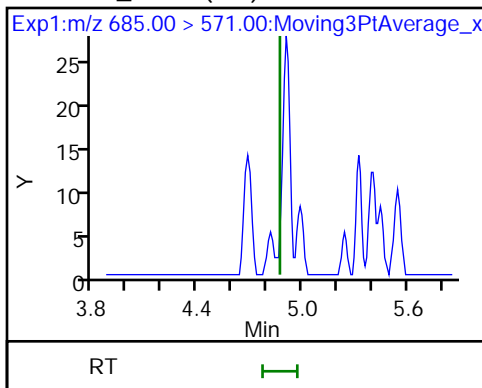
8 BFS_A3B2

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

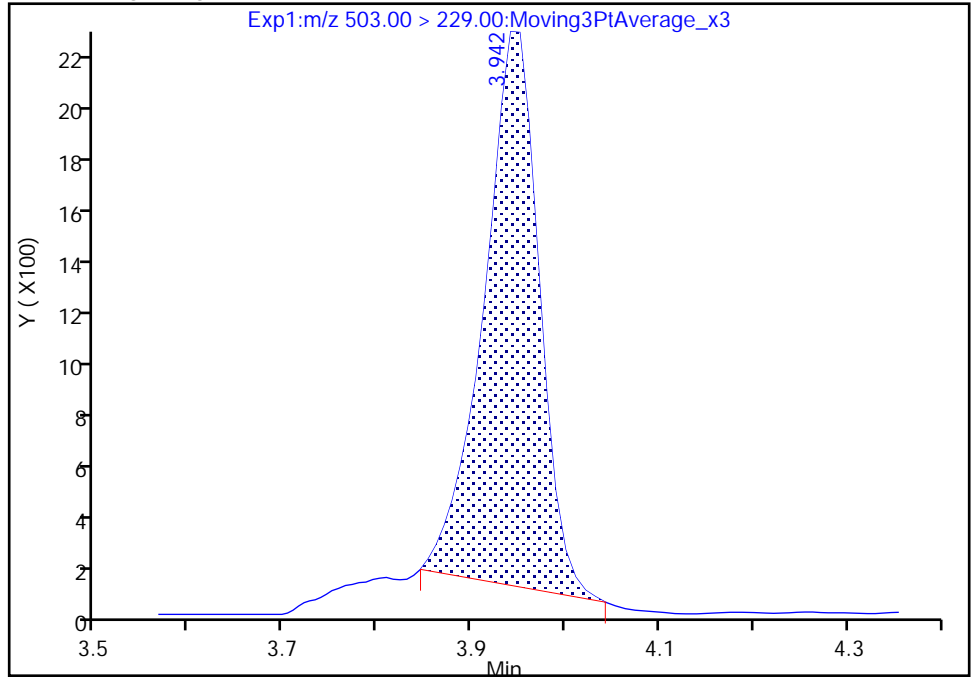
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Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

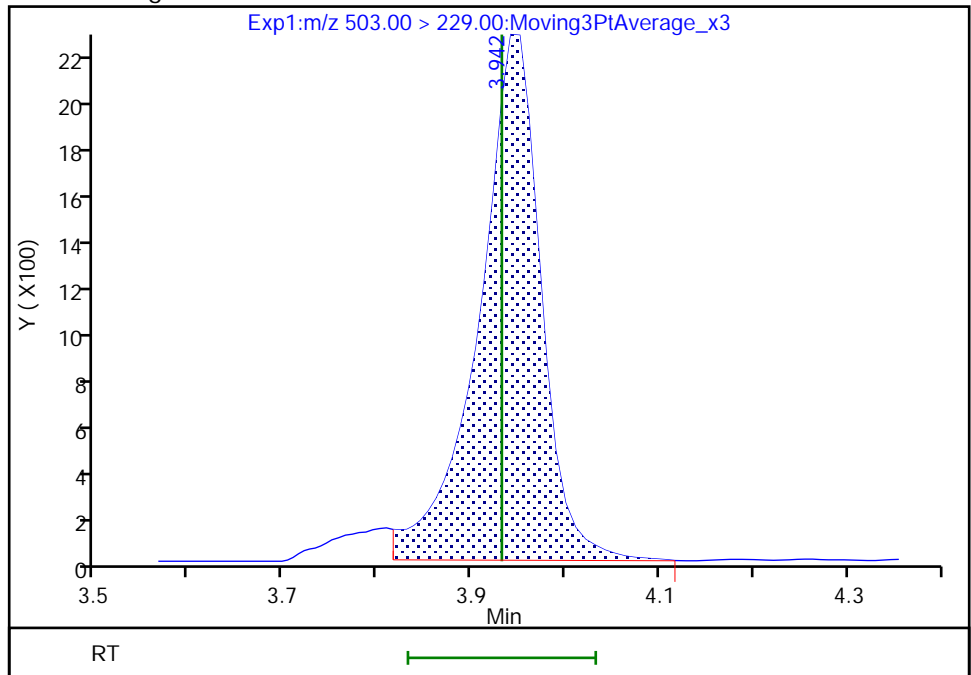
RT: 3.94
Area: 8715
Amount: 0.044535
Amount Units: ng/ml

Processing Integration Results



RT: 3.94
Area: 10272
Amount: 0.051504
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:07
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

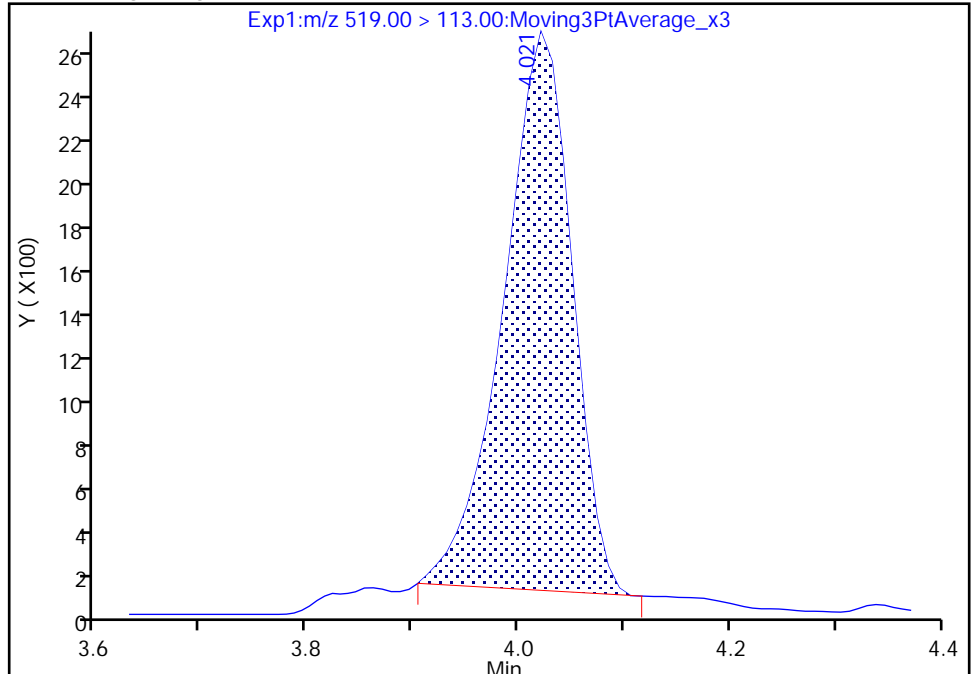
Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d
Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

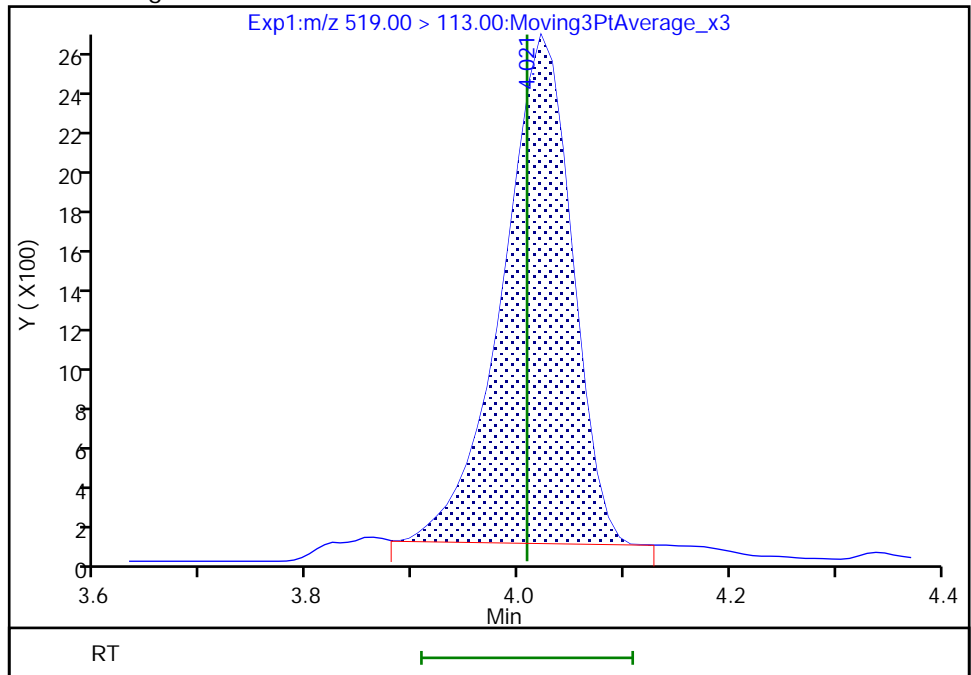
RT: 4.02
Area: 11257
Amount: 0.054065
Amount Units: ng/ml

Processing Integration Results



RT: 4.02
Area: 11559
Amount: 0.055270
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:12
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

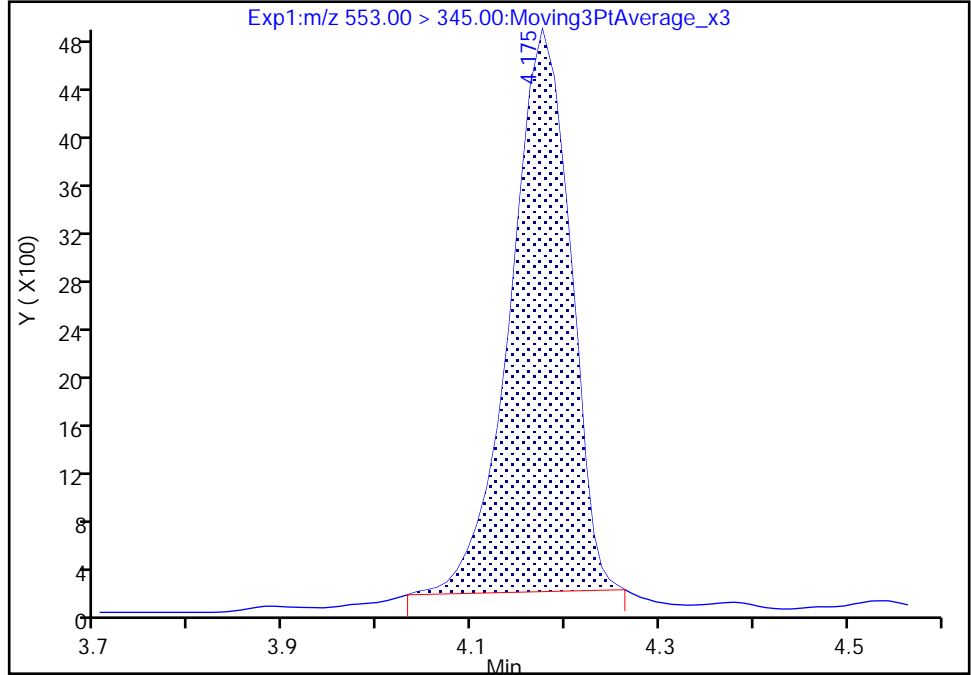
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Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

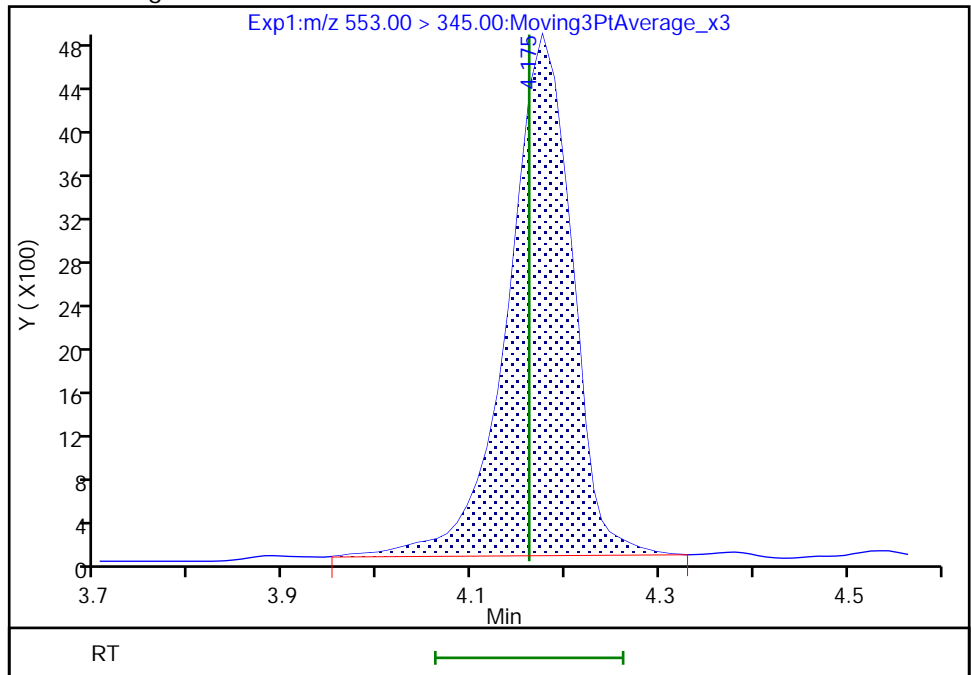
RT: 4.18
Area: 20866
Amount: 0.137594
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 22893
Amount: 0.152221
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:22
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

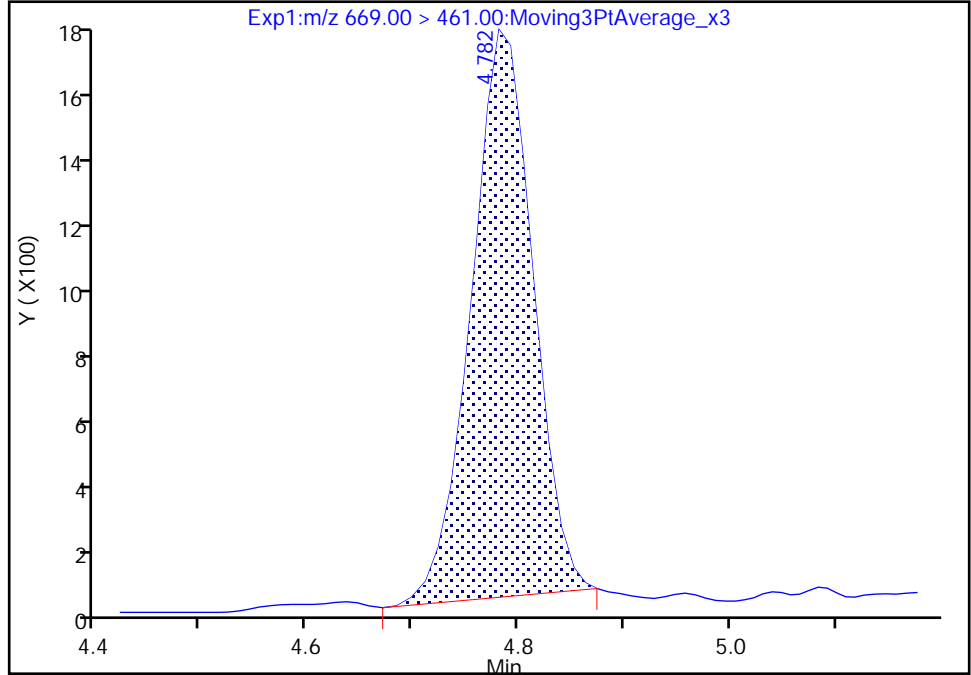
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Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

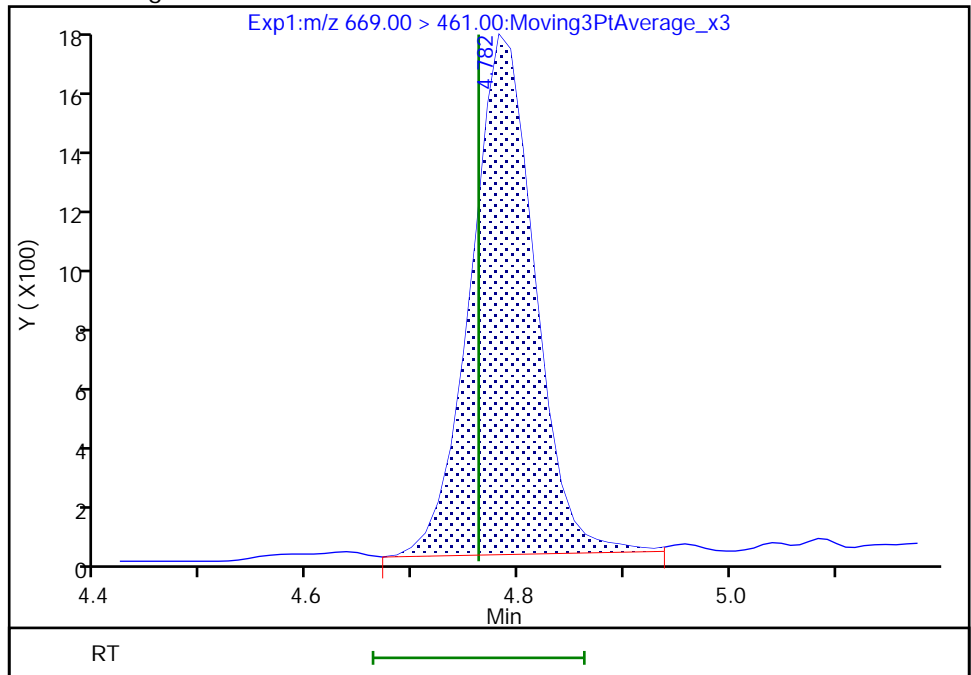
RT: 4.78
Area: 6939
Amount: 0.078130
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 7288
Amount: 0.082141
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:32
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 440 of 685

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285953/2 Calibration Date: 08/15/2022 09:25
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG15BFS-06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.913		1.98	1.78	10.9	30.0
BFS_A3B	L1ID		2.167		2.23	1.99	12.2	30.0
BFS_B3	L1ID		1.249		7.37	6.34	16.2	30.0
BFS_A2B2	Q2ID		0.8394		15.0	13.9	8.1	30.0
BFS_A4B	L1ID		2.552		1.18	1.10	6.8	30.0
BFS_AB3	Q2ID		1.120		15.6	14.9	4.6	30.0
BFS_A3B2	Q2ID		2.057		2.63	2.62	0.3	30.0
BFS_B4	Q2ID		0.6966		3.58	3.46	3.5	30.0
BFS_A2B3	L1ID		0.0642		0.250	0.262	-4.6	30.0
13C3 HFPO-DA	Ave	0.2006	0.2117		5.28	5.00	5.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-06.d
 Lims ID: CCV 2_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 15-Aug-2022 09:25:44 ALS Bottle#: 6 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:12 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:30:00

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.939	3.932	0.007	0.903	426907	1.98	111	1674
2 BFS_A3B	519.00 > 113.00	4.019	4.008	0.011	0.922	540402	2.23	112	79.4
3 BFS_B3	553.00 > 345.00	4.173	4.161	0.012	0.957	991329	7.37	116	345
4 BFS_A2B2	569.00 > 229.00	4.277	4.267	0.010	0.981	1459748	15.0	108	419
D 6 13C3 HFPO-DA	332.00 > 287.00	4.361	4.348	0.013	0.878	626283	5.28	106	721
5 BFS_A4B	585.00 > 113.00	4.369	4.353	0.016	1.002	351623	1.18	107	418
7 BFS_AB3	619.00 > 229.00	4.541	4.525	0.016	1.041	2087412	15.6	105	701
8 BFS_A3B2	635.00 > 113.00	4.634	4.627	0.007	1.063	674871	2.63	100	504
9 BFS_B4	669.00 > 461.00	4.780	4.762	0.018	1.096	301691	3.58	104	490
10 BFS_A2B3	685.00 > 571.00	4.884	4.870	0.014	1.120	2105	0.2498	95.4	98.0 M
* 11 13C2 PFOA	415.00 > 370.00	4.966	4.958	0.008		2958392	5.00		856

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-06.d

Injection Date: 15-Aug-2022 09:25:44

Instrument ID: 30733

Lims ID: CCV 2_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

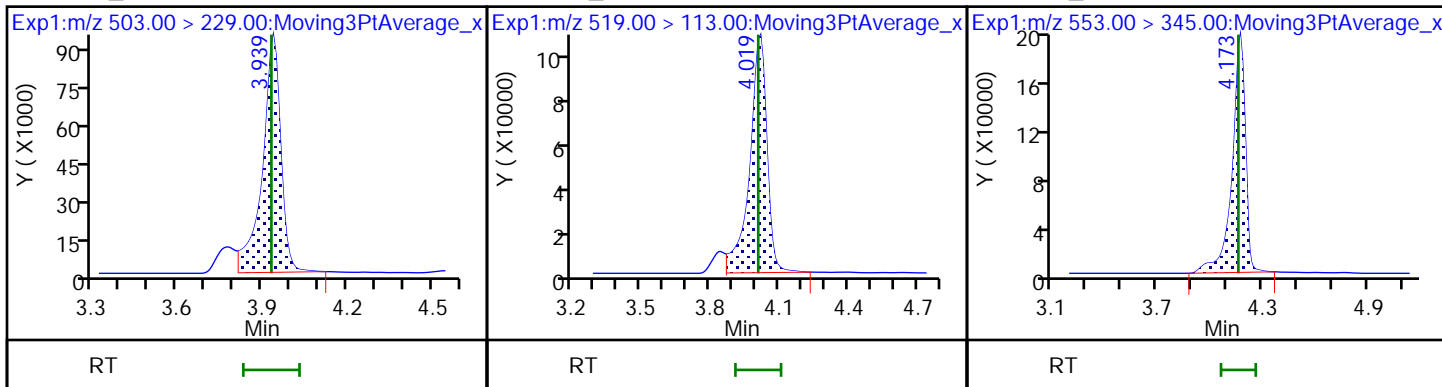
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

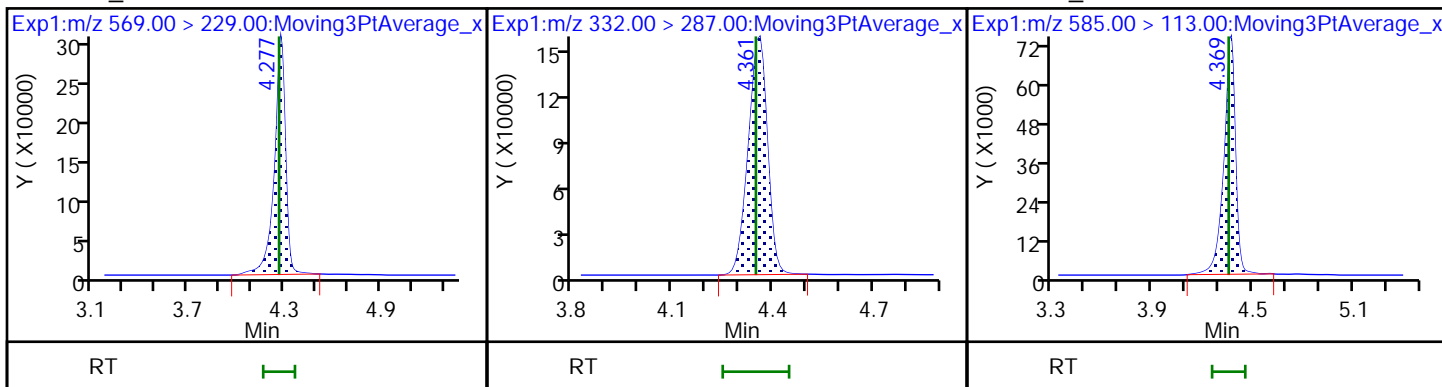
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

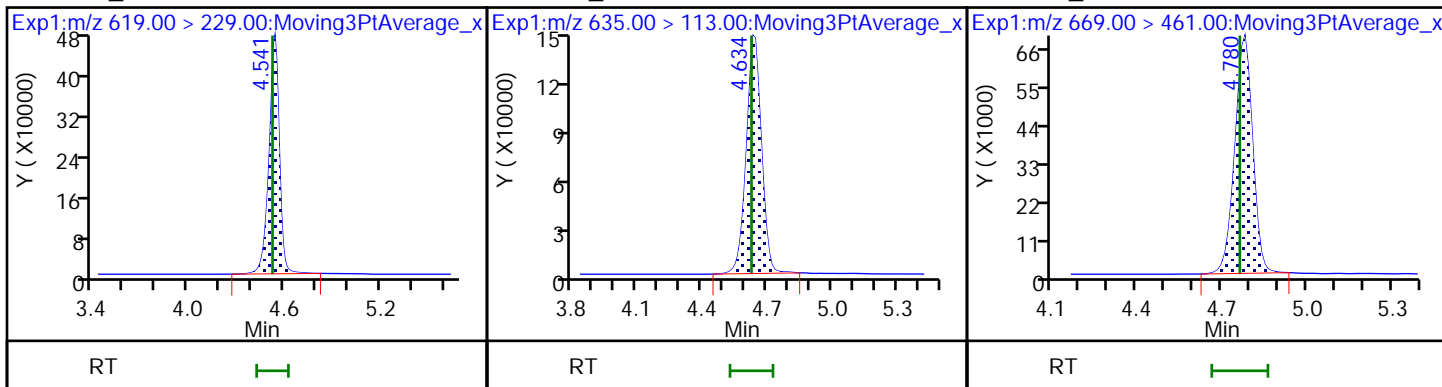
5 BFS_A4B



7 BFS_AB3

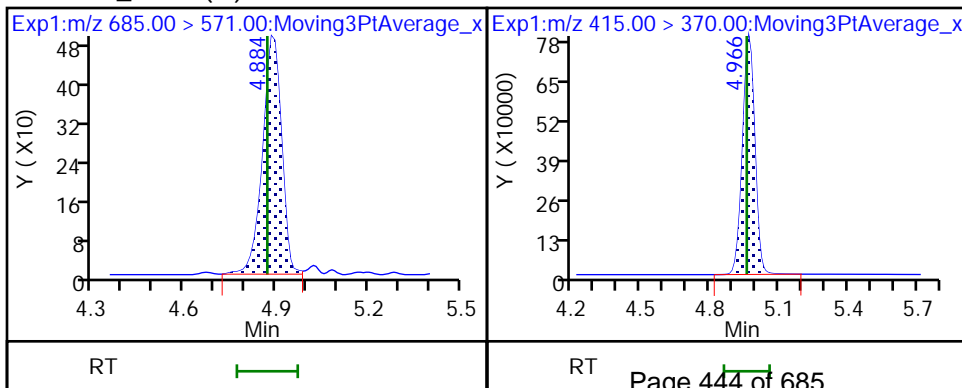
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

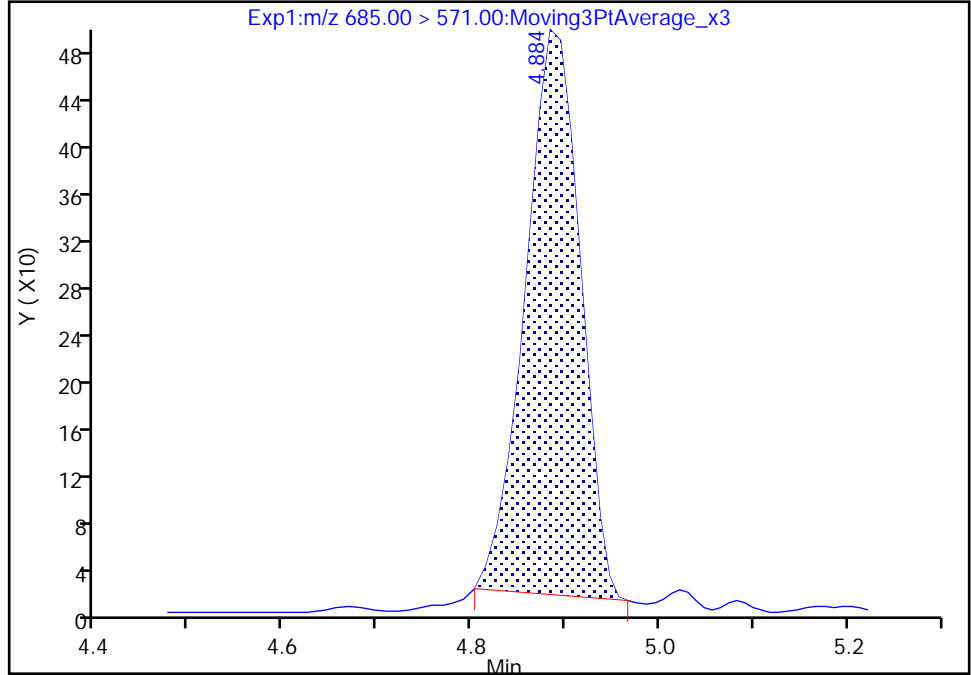
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Injection Date: 15-Aug-2022 09:25:44 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

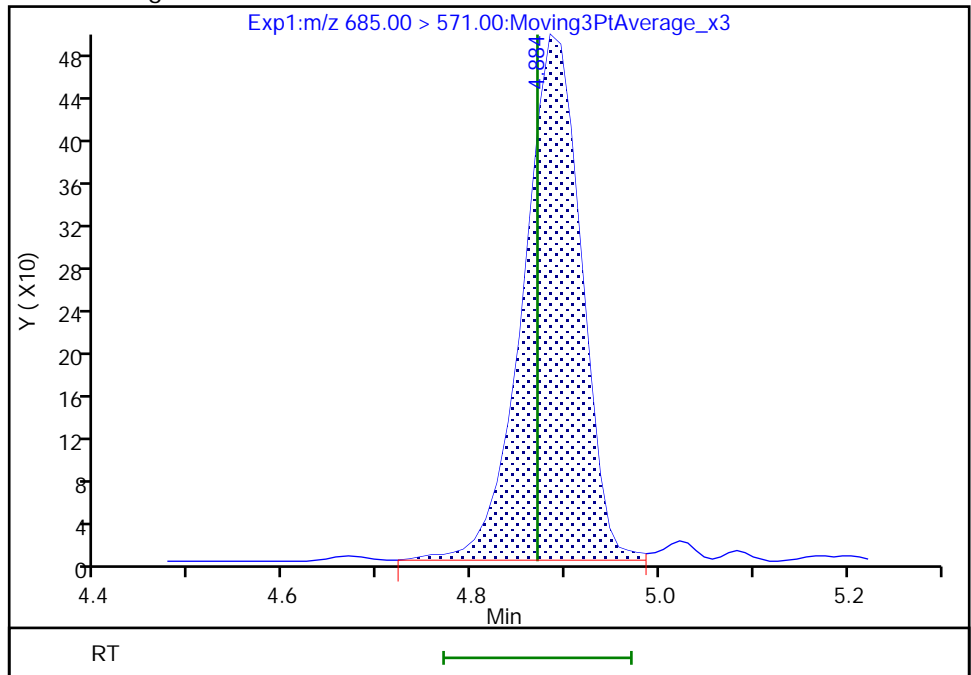
RT: 4.88
Area: 1931
Amount: 0.229084
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 2105
Amount: 0.249810
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:57
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285953/5 Calibration Date: 08/15/2022 10:03
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG15BFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.717		4.43	4.45	-0.6	30.0
BFS_A3B	L1ID		2.000		5.14	4.98	3.3	30.0
BFS_B3	L1ID		1.108		16.4	15.8	3.2	30.0
BFS_A2B2	Q2ID		0.7841		35.1	34.7	1.3	30.0
BFS_A4B	L1ID		2.446		2.82	2.75	2.4	30.0
BFS_AB3	Q2ID		1.013		35.4	37.2	-4.9	30.0
BFS_A3B2	Q2ID		1.988		6.36	6.55	-2.8	30.0
BFS_B4	Q2ID		0.6319		8.13	8.64	-5.9	30.0
BFS_A2B3	L1ID		0.0577		0.563	0.655	-14.0	30.0
13C3 HFPO-DA	Ave	0.2006	0.2108		5.25	5.00	5.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-09.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 15-Aug-2022 10:03:29 ALS Bottle#: 7 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:16 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:30:14

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.942	3.932	0.010	0.903	961557	4.43	99.4	1552
2 BFS_A3B	519.00 > 113.00	4.021	4.008	0.013	0.922	1251619	5.14	103	51.7
3 BFS_B3	553.00 > 345.00	4.175	4.161	0.014	0.957	2208284	16.4	103	88.6
4 BFS_A2B2	569.00 > 229.00	4.280	4.267	0.013	0.981	3422235	35.1	101	348
D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.348	0.015	0.878	628759	5.25	105	739
5 BFS_A4B	585.00 > 113.00	4.371	4.353	0.018	1.002	845908	2.82	102	304
7 BFS_AB3	619.00 > 229.00	4.544	4.525	0.019	1.041	4736562	35.4	95.1	654
8 BFS_A3B2	635.00 > 113.00	4.637	4.627	0.010	1.063	1636773	6.36	97.2	501
9 BFS_B4	669.00 > 461.00	4.782	4.762	0.020	1.096	686842	8.13	94.1	460
10 BFS_A2B3	685.00 > 571.00	4.885	4.870	0.015	1.120	4752	0.5629	86.0	98.6 M
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.958	0.010		2982294	5.00		868

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-09.d

Injection Date: 15-Aug-2022 10:03:29

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

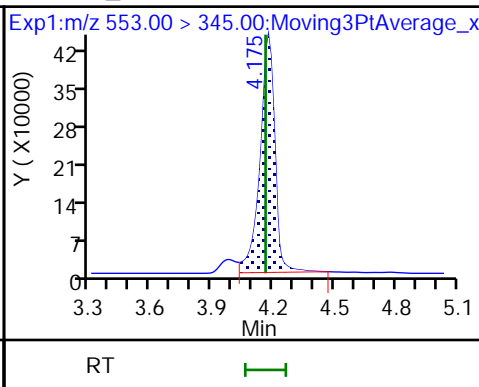
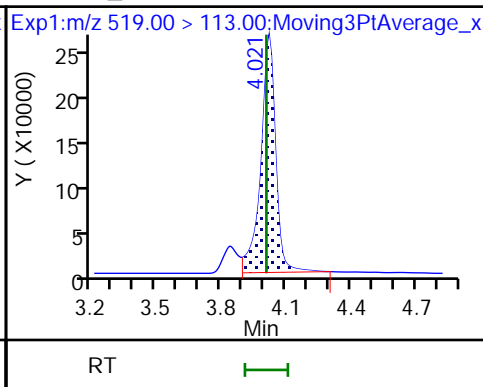
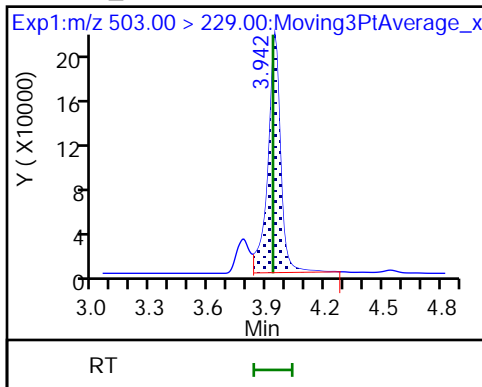
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

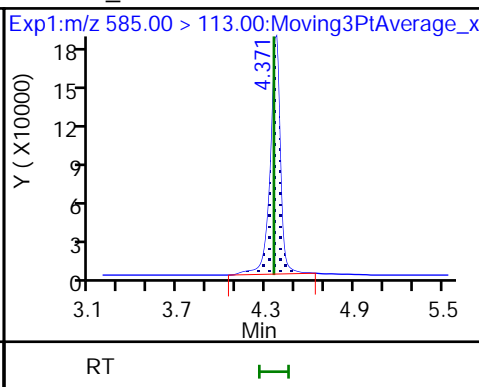
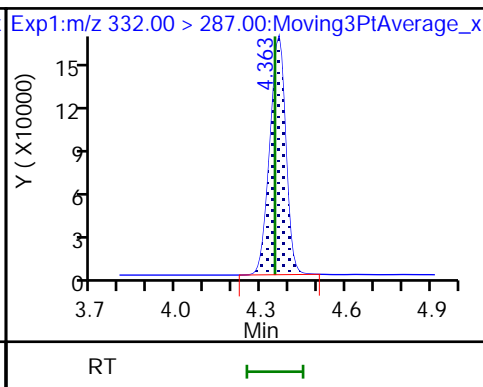
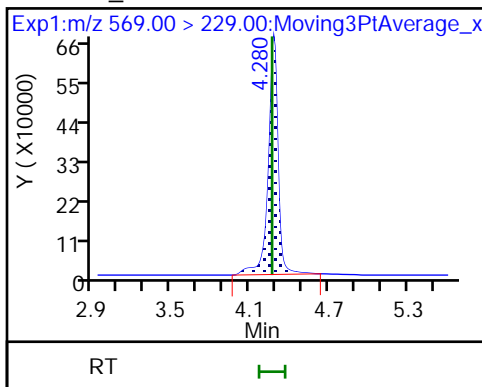
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

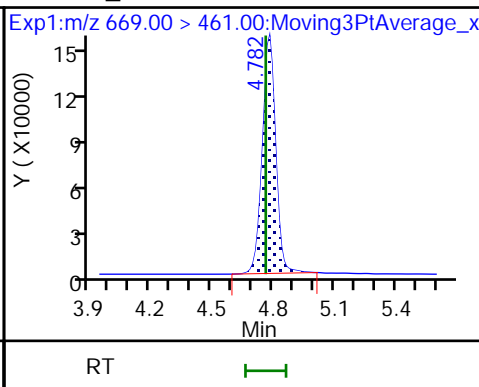
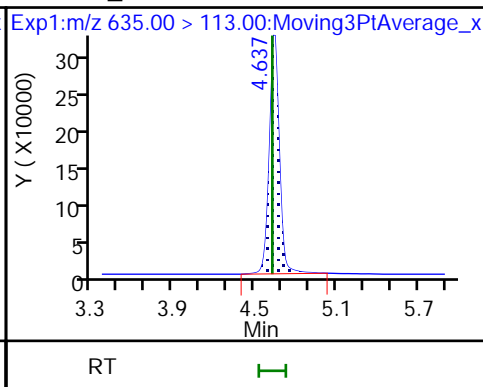
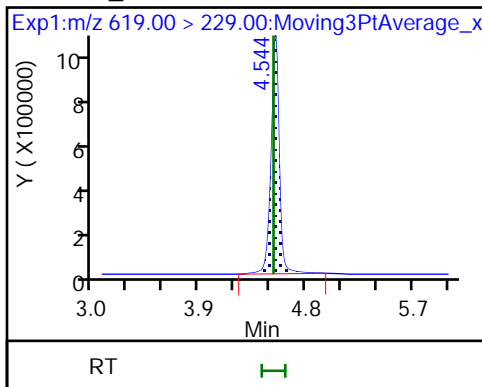
5 BFS_A4B



7 BFS_AB3

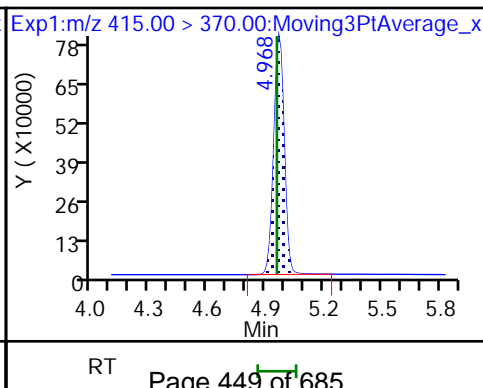
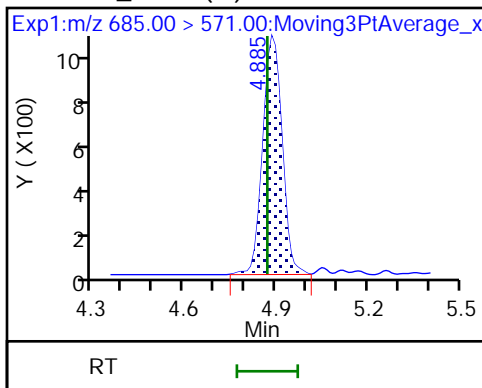
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

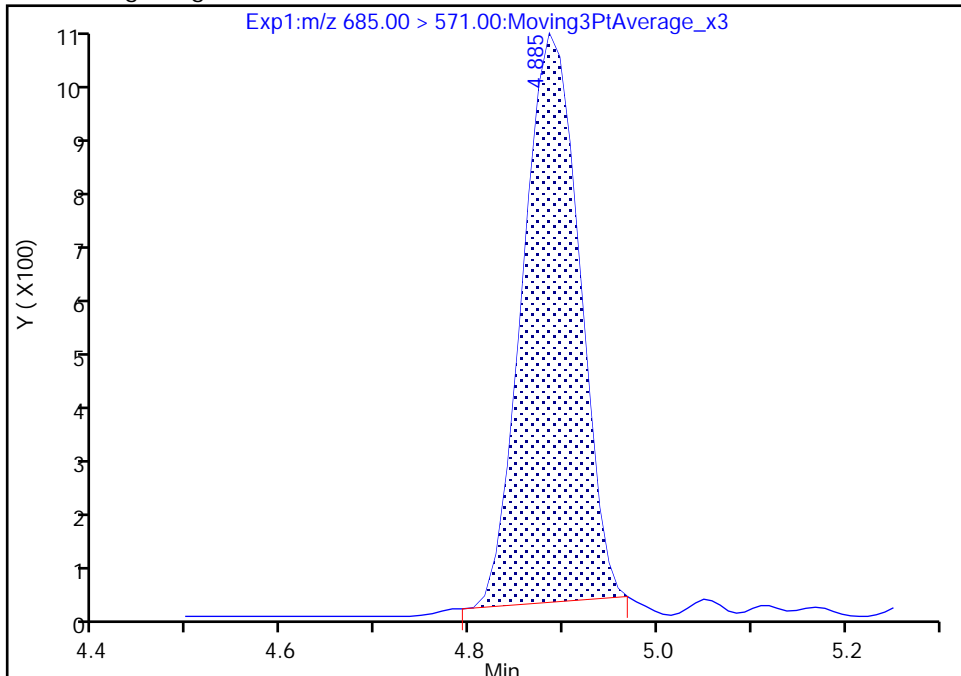
Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-09.d
Injection Date: 15-Aug-2022 10:03:29 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

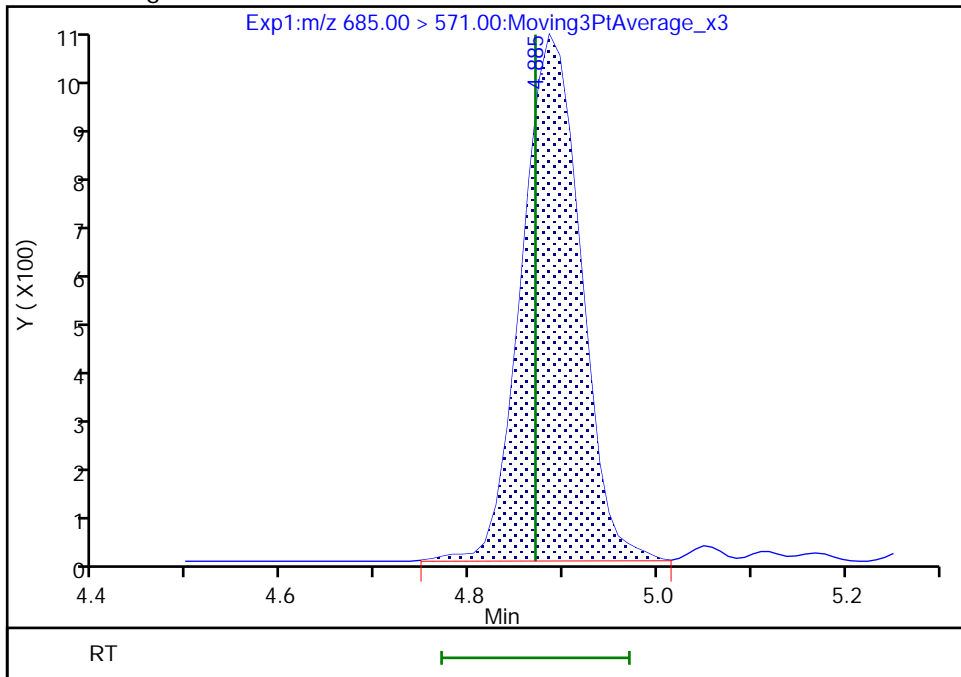
RT: 4.88
Area: 4421
Amount: 0.523603
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 4752
Amount: 0.562874
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:30:10
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279976/1-A

Matrix: Water Lab File ID: 22AUG05BFS-30.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 250 (mL) Date Analyzed: 08/09/2022 08:51

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-30.d
 Lims ID: MB 410-279976/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Aug-2022 08:51:55 ALS Bottle#: 37 Worklist Smp#: 30
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279976/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-030
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:31:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:15:54

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA									
332.00 > 287.00	4.380	4.388	-0.008	0.878	740746	4.71	94.3	355	
* 11 13C2 PFOA									
415.00 > 370.00	4.988	4.997	-0.009		3666744	5.00		363	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-30.d

Injection Date: 09-Aug-2022 08:51:55 Instrument ID: 30733

Lims ID: MB 410-279976/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 37

Worklist Smp#: 30

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

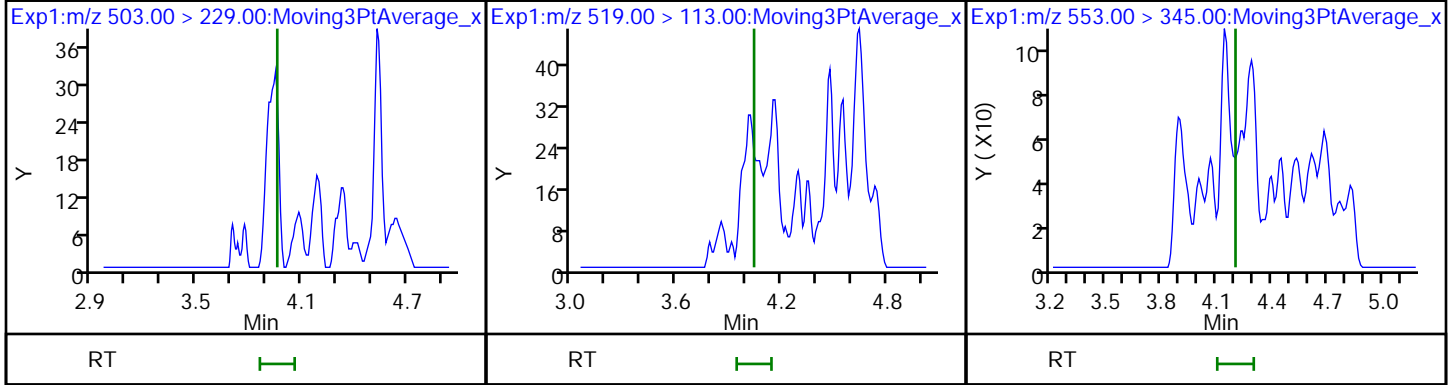
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

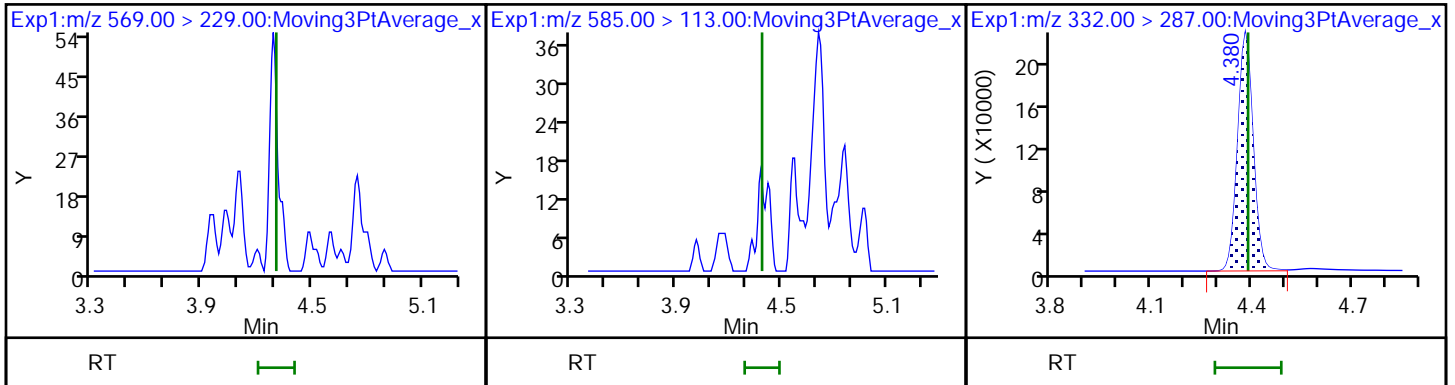
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

5 BFS_A4B (ND)

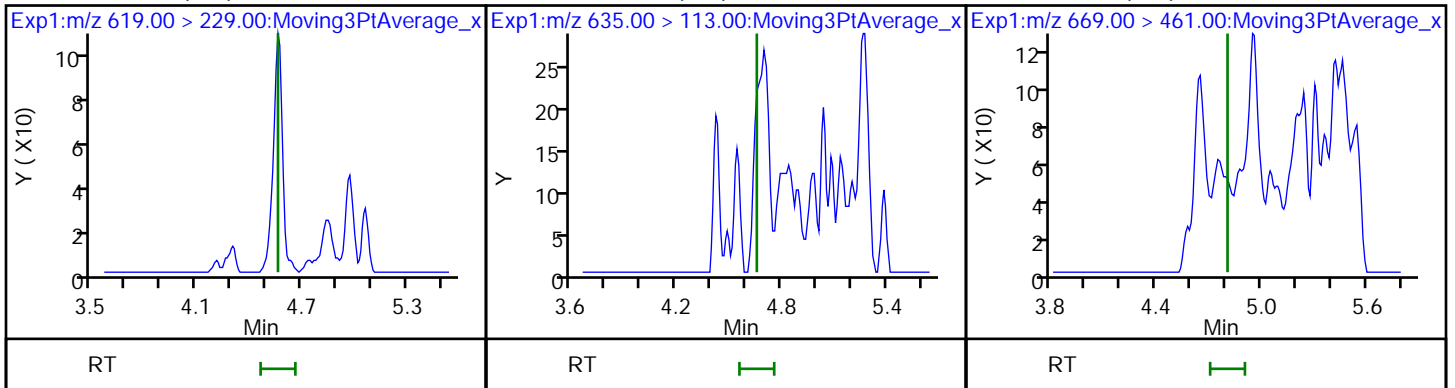
D 6 13C3 HFPO-DA



7 BFS_AB3 (ND)

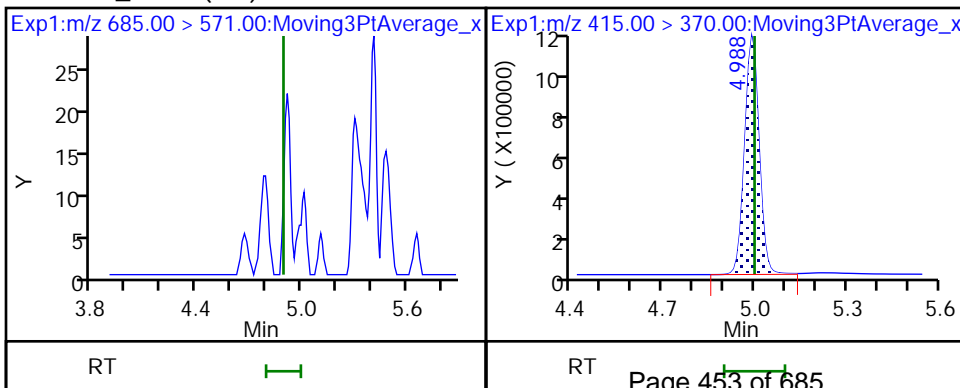
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279981/1-A

Matrix: Water Lab File ID: 22AUG05BFS-03.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 250 (mL) Date Analyzed: 08/09/2022 03:11

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	111		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-03.d
 Lims ID: MB 410-279981/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Aug-2022 03:11:56 ALS Bottle#: 13 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279981/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:14:12
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.383	4.389	-0.006	0.878	747780	5.57	111	369
* 11 13C2 PFOA	415.00 > 370.00	4.990	4.997	-0.007		3132855	5.00		359

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-03.d

Injection Date: 09-Aug-2022 03:11:56 Instrument ID: 30733

Lims ID: MB 410-279981/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

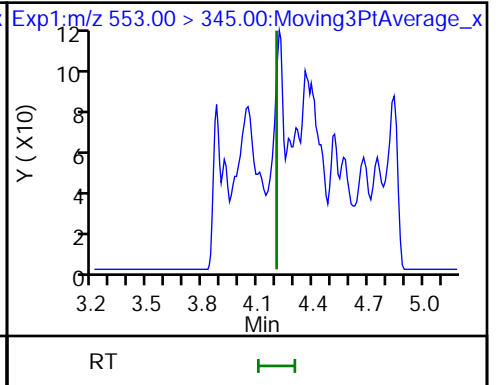
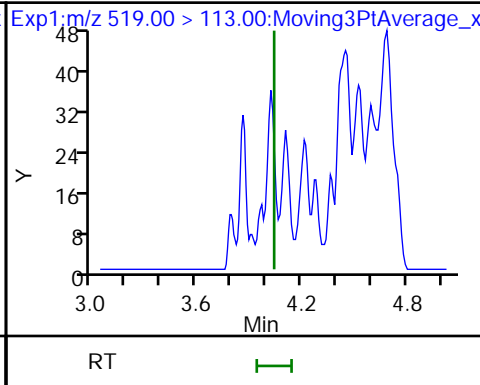
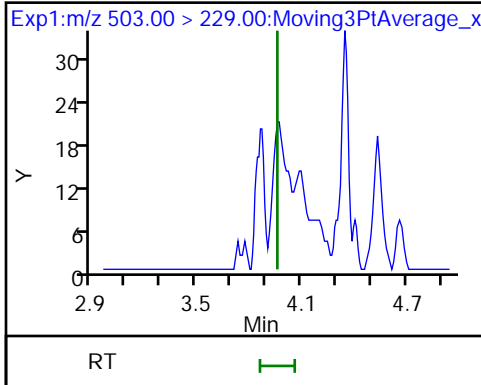
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

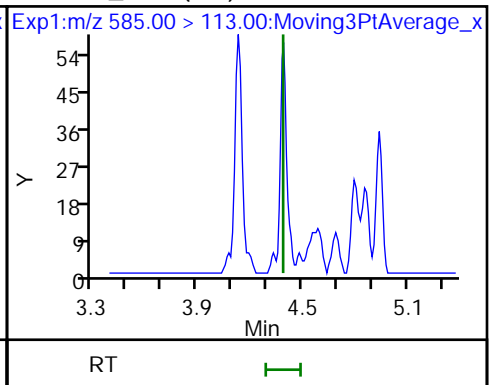
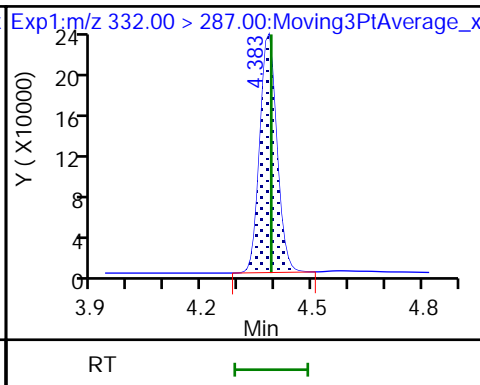
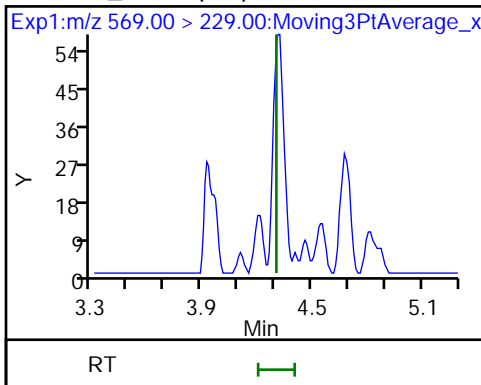
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

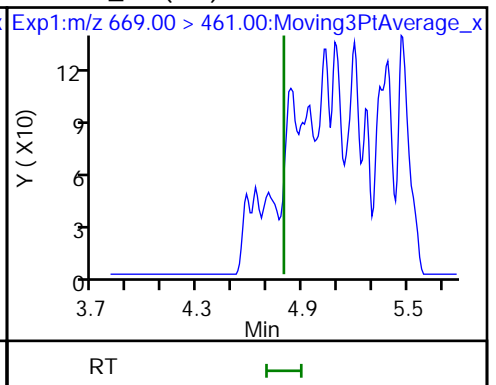
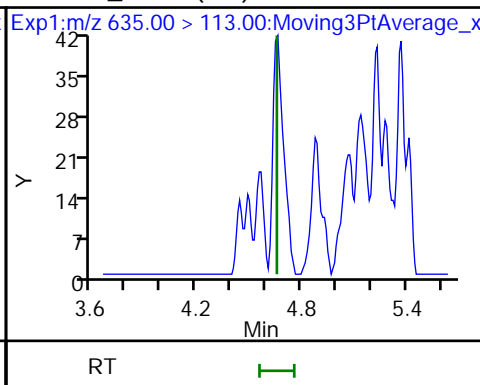
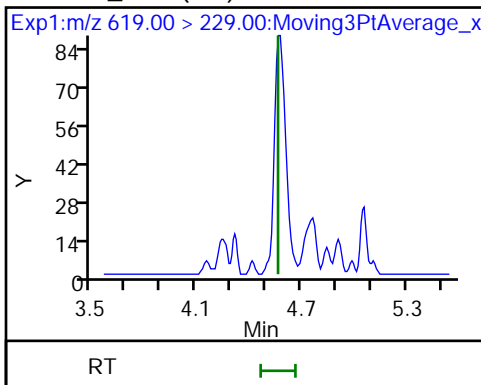
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

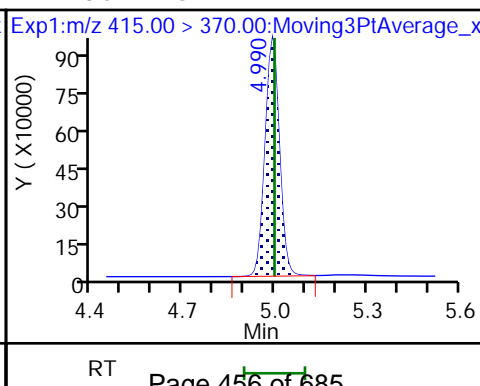
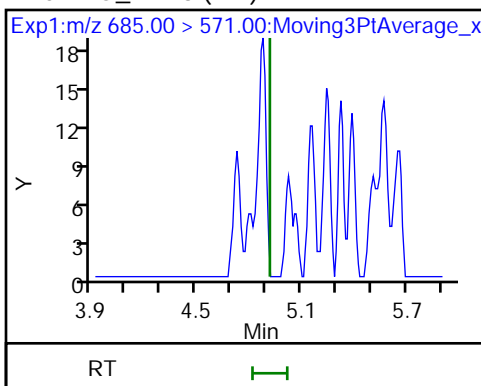
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-285075/1-A

Matrix: Water Lab File ID: 22AUG13BFS-17.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 05:57

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-17.d
 Lims ID: MB 410-285075/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 14-Aug-2022 05:57:42 ALS Bottle#: 13 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-285075/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:37:25
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.344	4.346	-0.002	0.876	615998	4.98	99.7	995
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		3080517	5.00		951

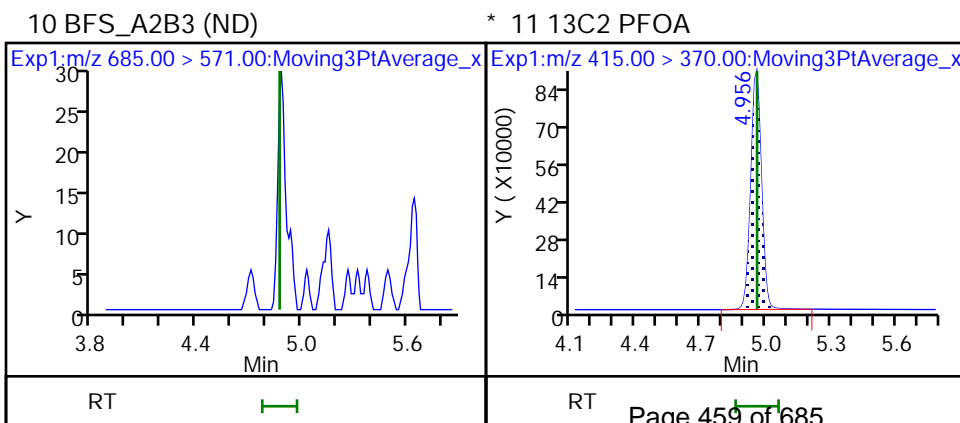
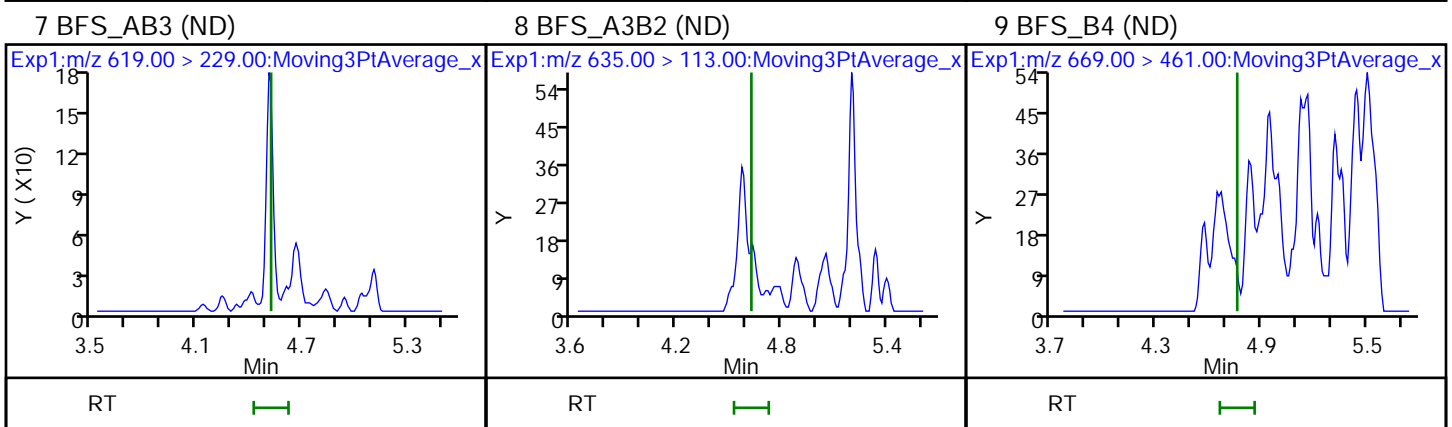
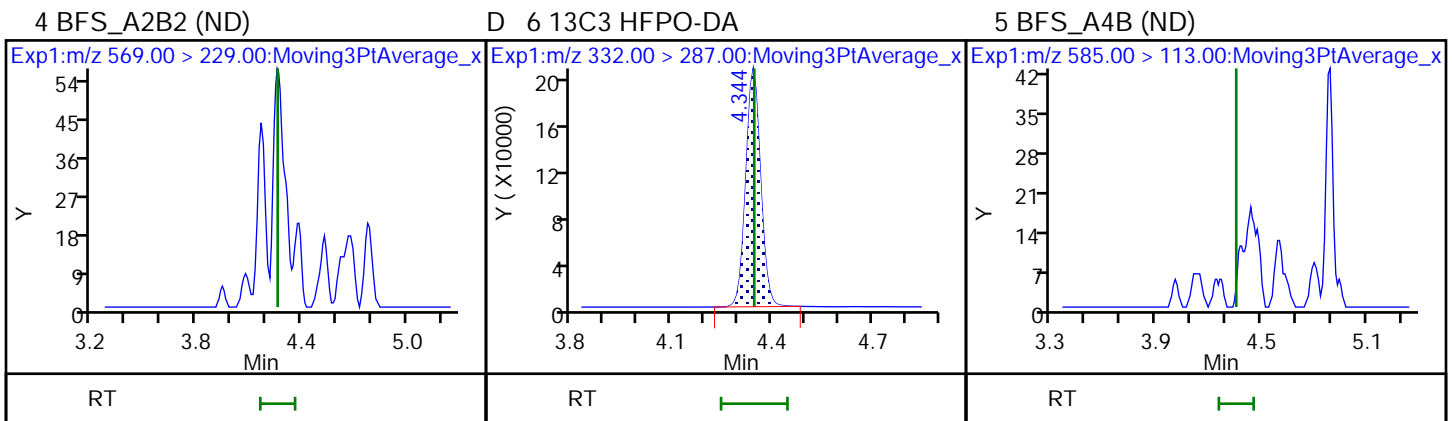
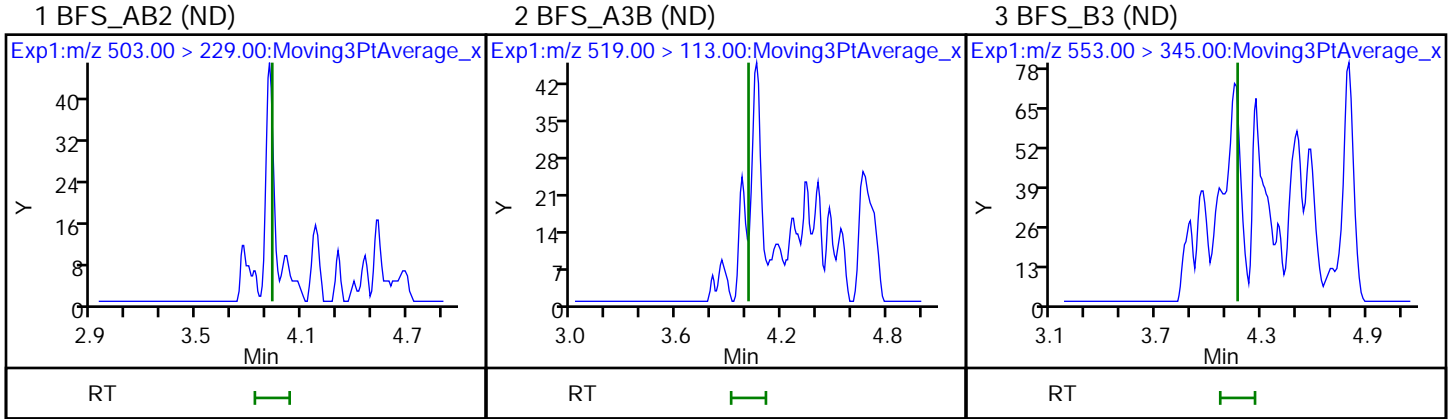
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-17.d
Injection Date: 14-Aug-2022 05:57:42 Instrument ID: 30733
Lims ID: MB 410-285075/1-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 13 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-283892/11

Matrix: Water Lab File ID: 22AUG08BFSCAL-13.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/09/2022 02:09

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283892 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	ND		0.025	0.013
STL02881	BFS_B3	ND		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-13.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 09-Aug-2022 02:09:02 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:52 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682
 First Level Reviewer: JVK6 Date: 09-Aug-2022 07:44:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.390	4.388	0.002	0.878	733197	4.94	98.7	298
* 11 13C2 PFOA	415.00 > 370.00	4.999	4.997	0.003		3466306	5.00		341

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-13.d

Injection Date: 09-Aug-2022 02:09:02

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

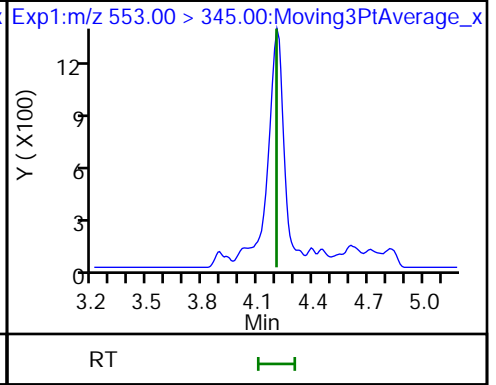
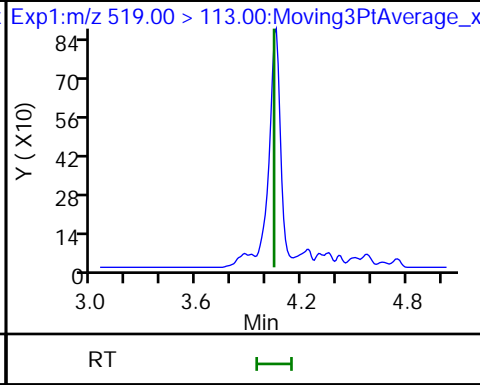
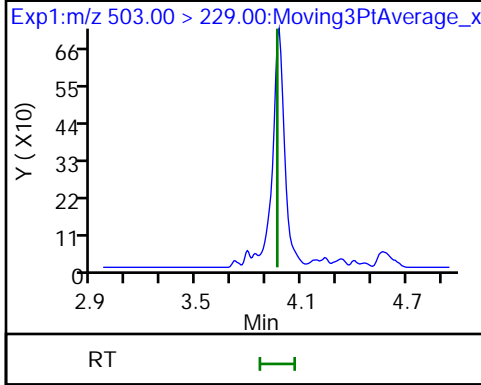
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

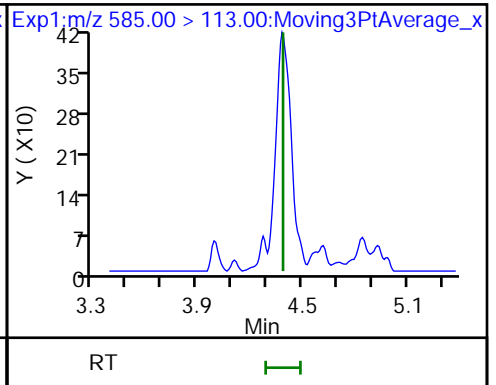
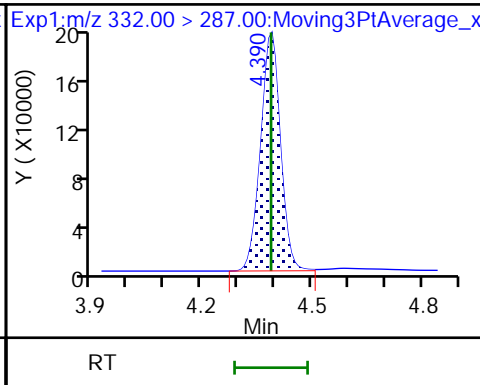
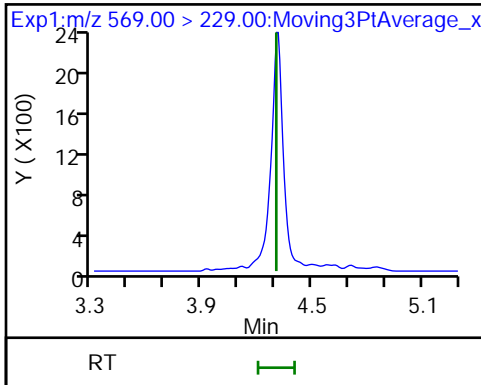
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

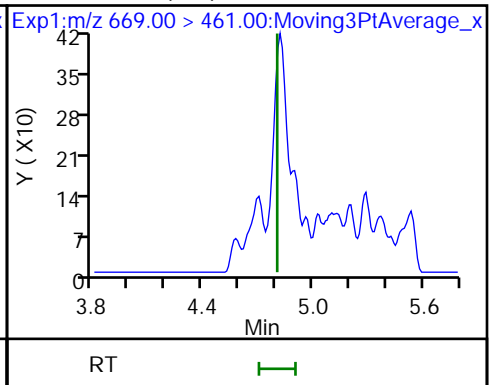
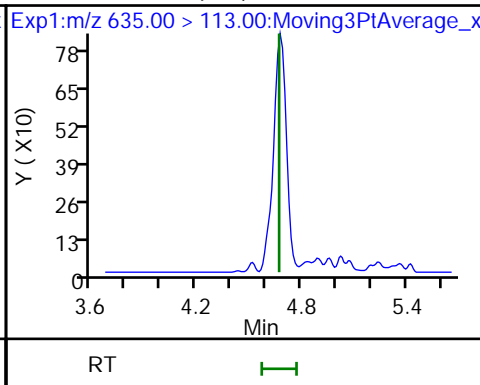
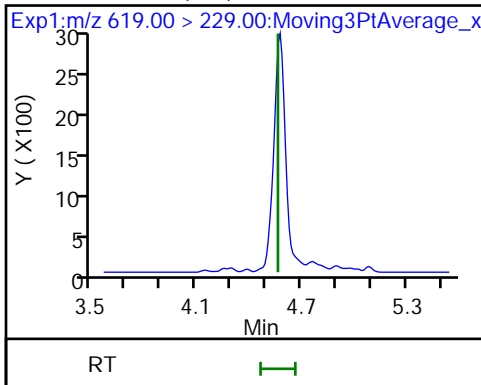
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

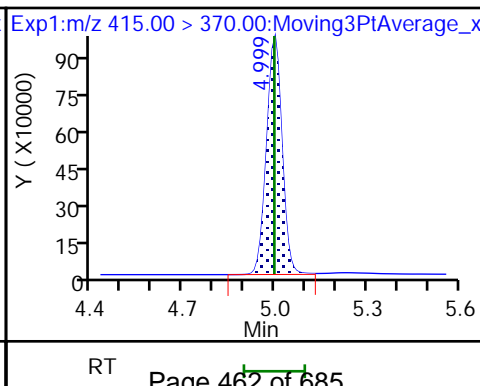
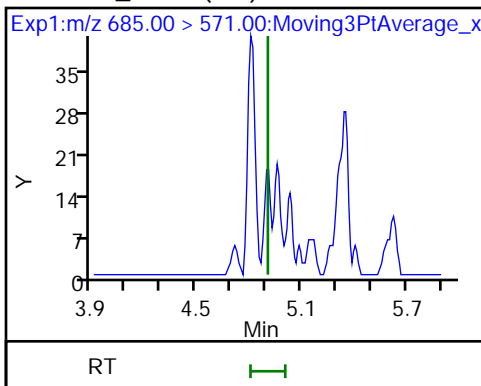
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-285706/11

Matrix: Water Lab File ID: 22AUG13BFS-11.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/14/2022 04:42

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285706 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	ND		0.025	0.013
STL02881	BFS_B3	ND		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 14-Aug-2022 04:42:07 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:44 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:54
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.341	4.346	-0.005	0.877	699359	4.88	97.7	886
* 11 13C2 PFOA	415.00 > 370.00	4.952	4.958	-0.006		3568767	5.00		950

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-11.d

Injection Date: 14-Aug-2022 04:42:07

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

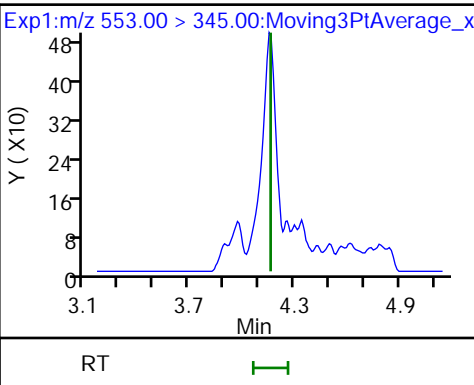
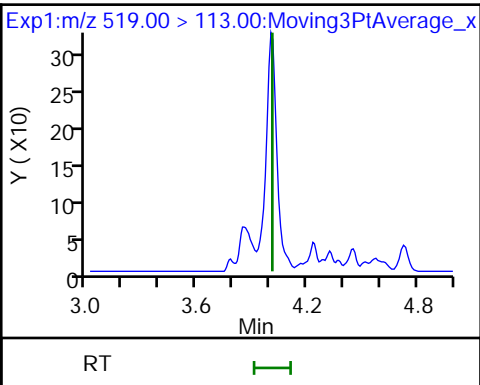
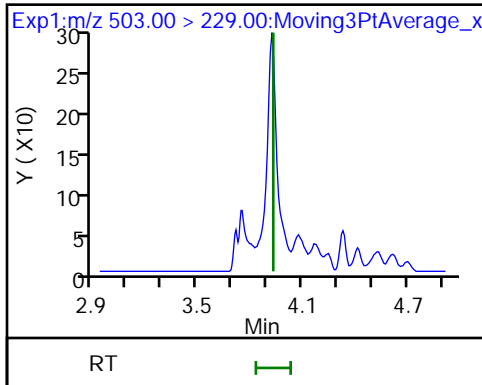
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

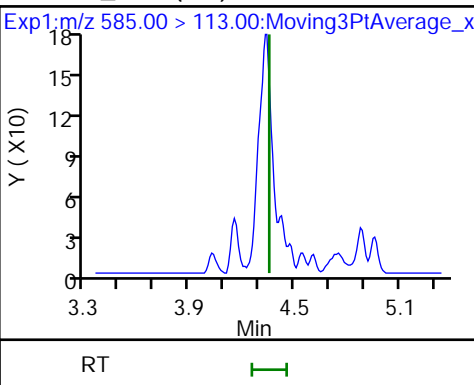
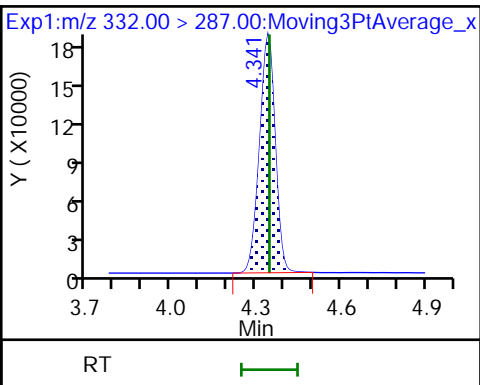
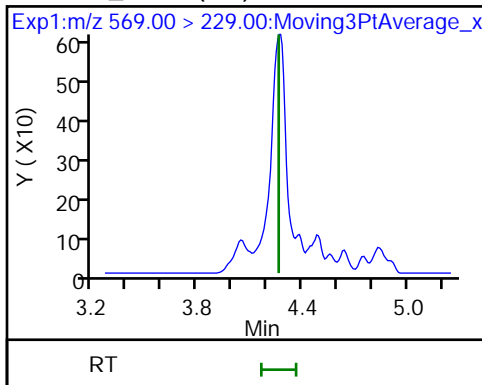
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

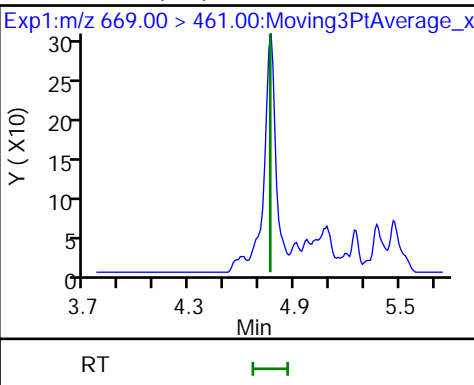
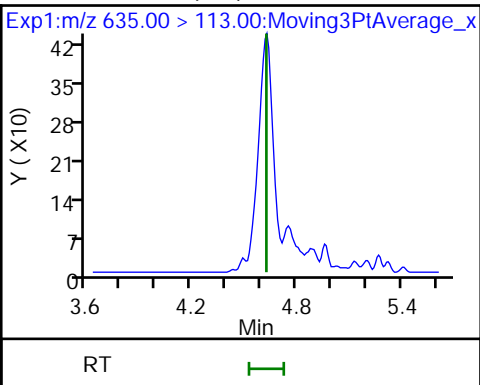
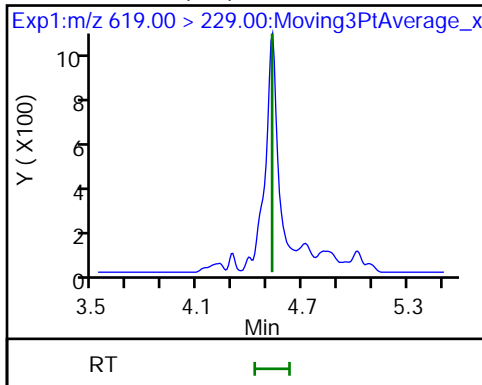
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

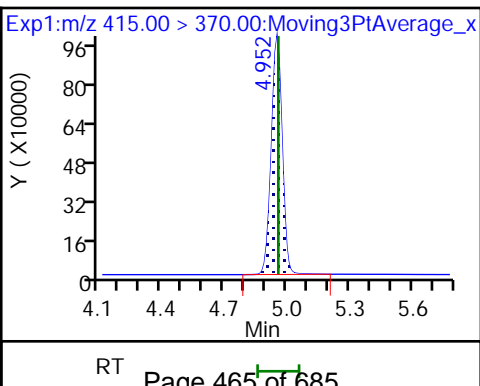
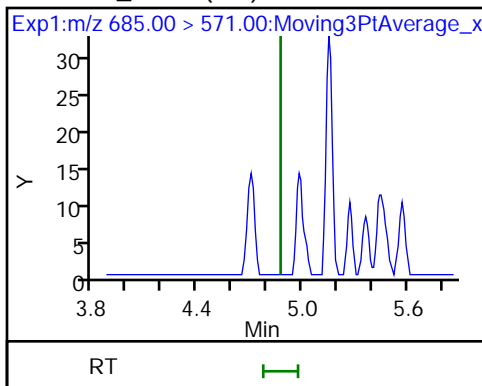
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279976/2-A

Matrix: Water Lab File ID: 22AUG09BFS-05.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 250 (mL) Date Analyzed: 08/10/2022 03:17

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	284		1.4	0.40
STL02887	BFS_A2B3	5.20		1.1	0.40
STL02880	BFS_A3B	42.3		0.60	0.20
STL02885	BFS_A3B2	53.1		0.80	0.20
STL02883	BFS_A4B	21.6		0.40	0.20
STL02879	BFS_AB2	45.2		0.60	0.080
STL02884	BFS_AB3	301		1.5	0.40
STL02881	BFS_B3	129		0.70	0.30
STL02886	BFS_B4	72.5		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-05.d
 Lims ID: LCS 410-279976/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 10-Aug-2022 03:17:06 ALS Bottle#: 14 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279976/2-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:31:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.960	-0.008	0.902	2182933	11.3	141	8474
2 BFS_A3B	519.00 > 113.00	4.034	4.042	-0.008	0.921	2313389	10.6	118	236
3 BFS_B3	553.00 > 345.00	4.190	4.200	-0.010	0.956	3948882	32.2	113	224
4 BFS_A2B2	569.00 > 229.00	4.299	4.304	-0.005	0.981	5835073	71.1	114	233
D 6 13C3 HFPO-DA	332.00 > 287.00	4.382	4.388	-0.006	0.879	724207	4.75	94.9	330
5 BFS_A4B	585.00 > 113.00	4.382	4.388	-0.006	1.000	1523491	5.41	109	314
7 BFS_AB3	619.00 > 229.00	4.557	4.564	-0.007	1.040	8191907	75.4	113	350
8 BFS_A3B2	635.00 > 113.00	4.660	4.657	0.003	1.063	2705469	13.3	113	272
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.094	1198149	18.1	117	297
10 BFS_A2B3	685.00 > 571.00	4.907	4.907	0.0	1.120	8038	1.30	110	158 M
* 11 13C2 PFOA	415.00 > 370.00	4.988	4.997	-0.009		3561531	5.00		337 M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-05.d

Injection Date: 10-Aug-2022 03:17:06

Instrument ID: 30733

Lims ID: LCS 410-279976/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

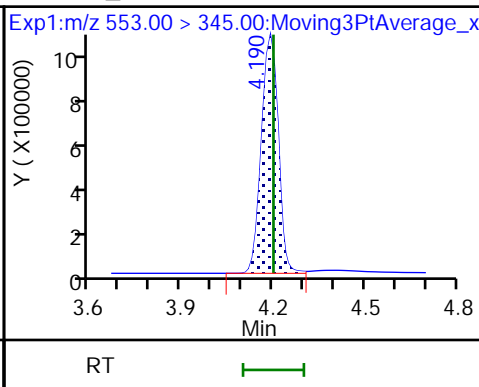
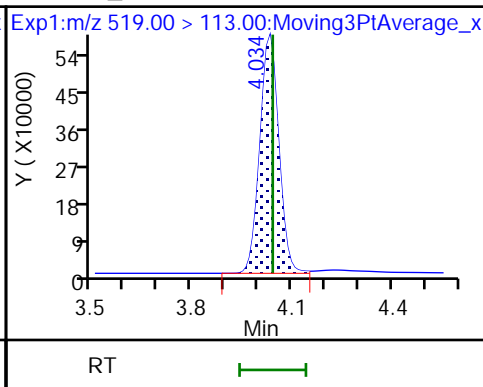
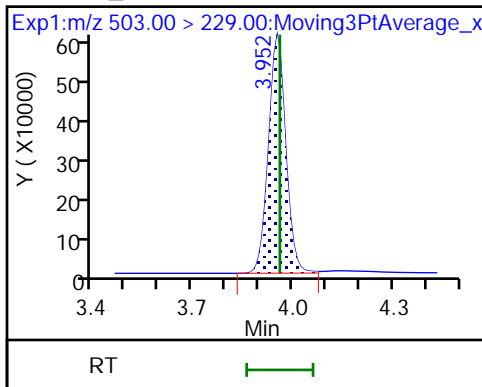
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

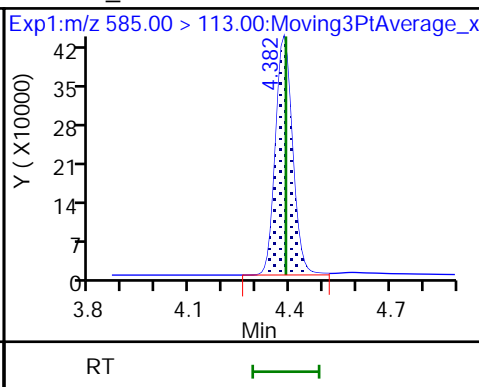
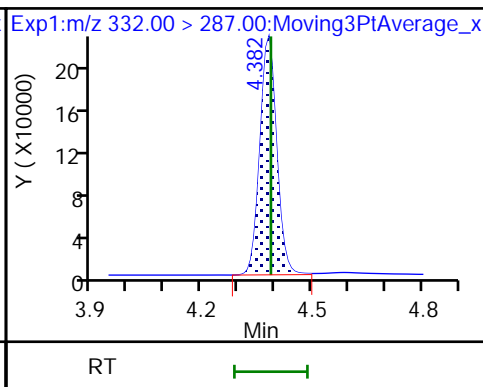
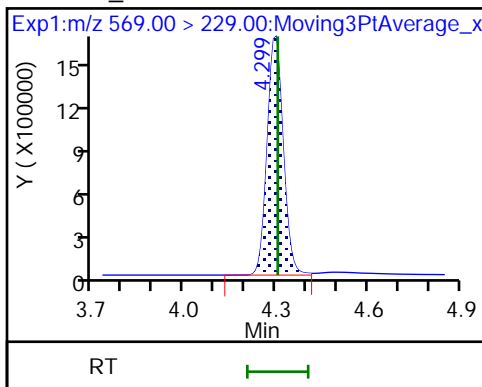
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

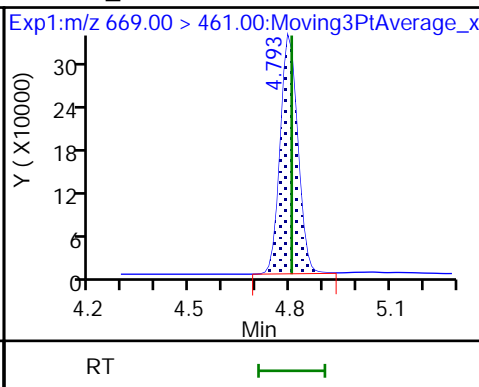
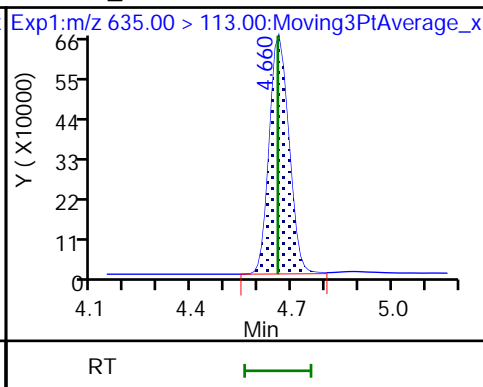
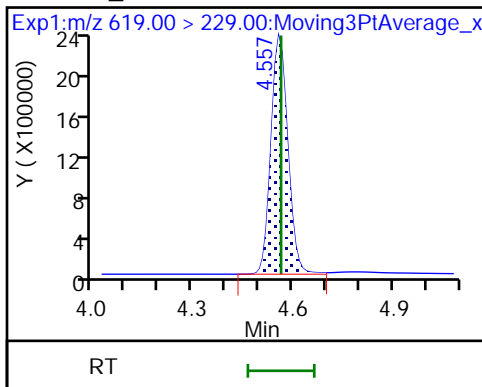
5 BFS_A4B



7 BFS_AB3

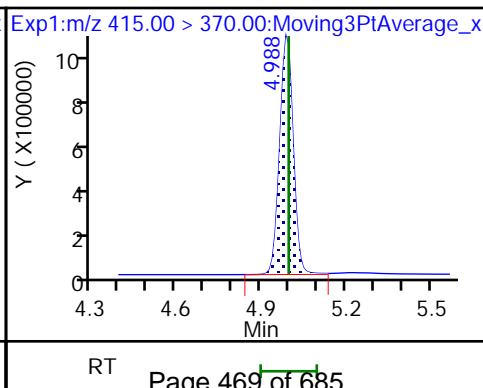
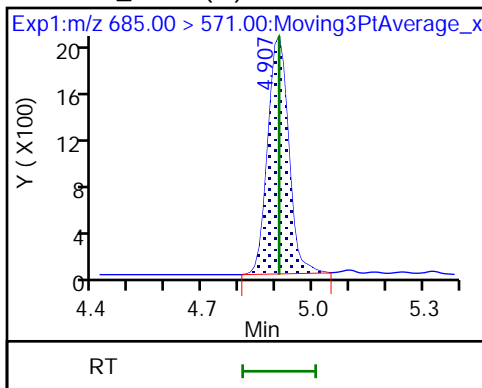
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

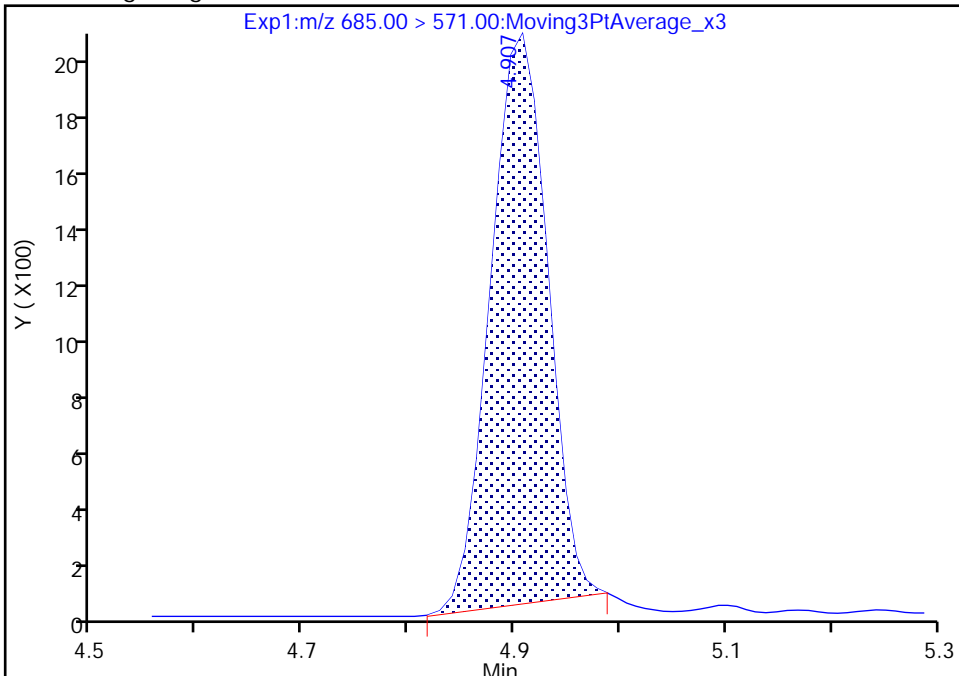
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Injection Date: 10-Aug-2022 03:17:06 Instrument ID: 30733
Lims ID: LCS 410-279976/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

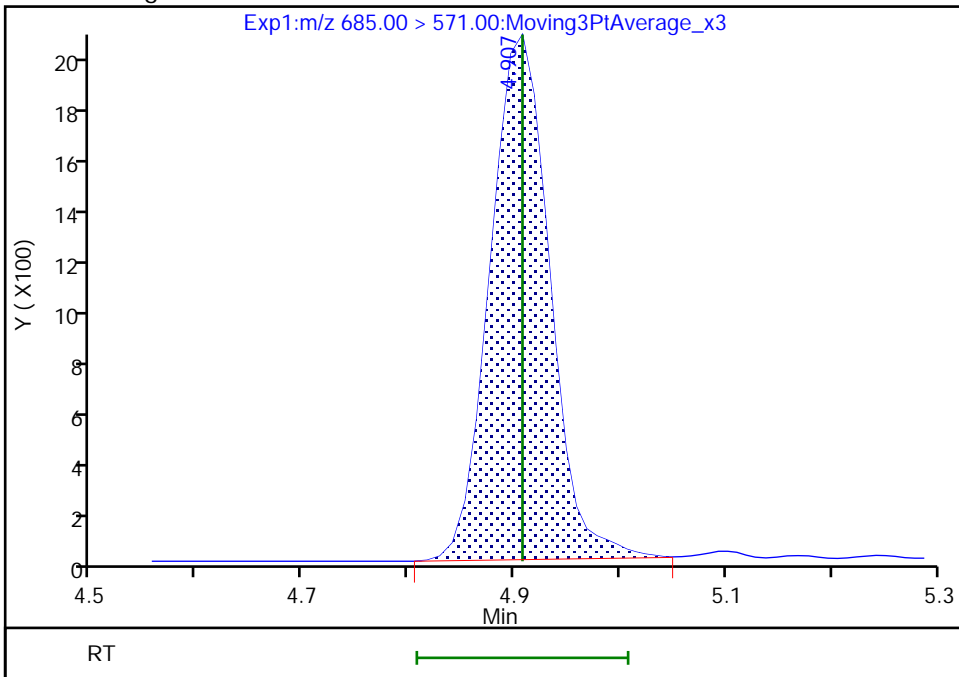
RT: 4.91
Area: 7578
Amount: 1.225575
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 8038
Amount: 1.299935
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 12:31:23
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 470 of 685

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279981/2-A

Matrix: Water Lab File ID: 22AUG05BFS-04.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:12

Sample wt/vol: 250 (mL) Date Analyzed: 08/09/2022 03:24

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	259		1.4	0.40
STL02887	BFS_A2B3	4.74		1.1	0.40
STL02880	BFS_A3B	38.0		0.60	0.20
STL02885	BFS_A3B2	50.1		0.80	0.20
STL02883	BFS_A4B	18.9		0.40	0.20
STL02879	BFS_AB2	36.0		0.60	0.080
STL02884	BFS_AB3	266		1.5	0.40
STL02881	BFS_B3	115		0.70	0.30
STL02886	BFS_B4	62.2		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-04.d
 Lims ID: LCS 410-279981/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-Aug-2022 03:24:34 ALS Bottle#: 14 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279981/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:29:04 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:14:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.903	1673693	9.00	112	6896
2 BFS_A3B	519.00 > 113.00	4.032	4.043	-0.011	0.919	2004705	9.50	106	242
3 BFS_B3	553.00 > 345.00	4.188	4.201	-0.013	0.954	3409319	28.8	101	220
4 BFS_A2B2	569.00 > 229.00	4.297	4.305	-0.008	0.979	5127833	64.7	104	218
D 6 13C3 HFPO-DA	332.00 > 287.00	4.389	4.389	0.0	0.878	698741	4.99	99.8	361
5 BFS_A4B	585.00 > 113.00	4.389	4.389	0.0	1.000	1280433	4.71	95.2	285
7 BFS_AB3	619.00 > 229.00	4.565	4.565	0.0	1.040	6997203	66.6	99.5	320
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.061	2461556	12.5	106	260
9 BFS_B4	669.00 > 461.00	4.805	4.793	0.012	1.095	992347	15.6	100	247
10 BFS_A2B3	685.00 > 571.00	4.918	4.918	0.0	1.121	7066	1.18	100	133
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		3267519	5.00	359	a

QC Flag Legend
 Processing Flags

Review Flags

a - User Assigned ID

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-04.d

Injection Date: 09-Aug-2022 03:24:34

Instrument ID: 30733

Lims ID: LCS 410-279981/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

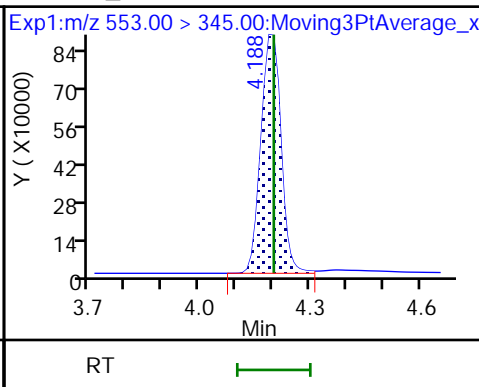
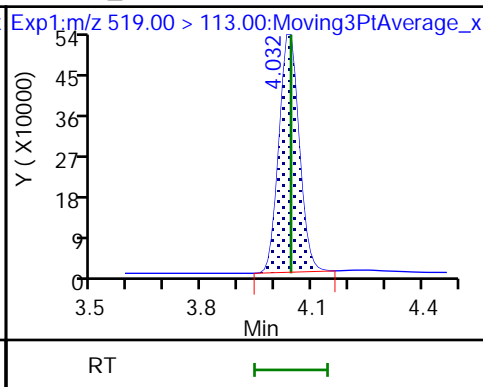
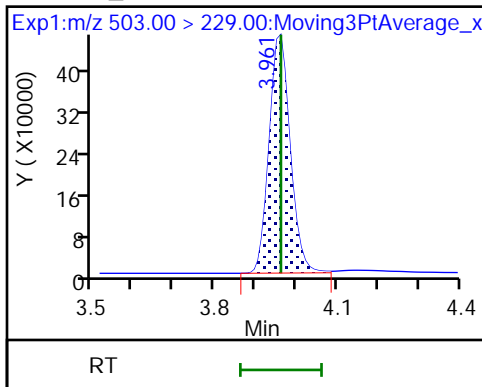
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

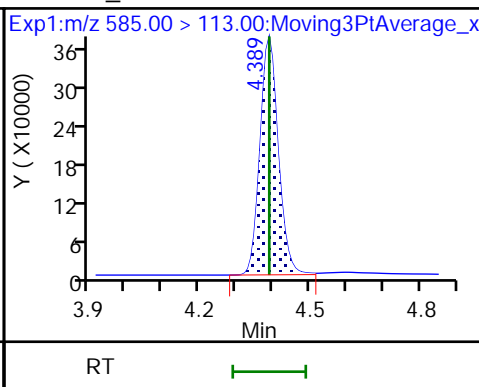
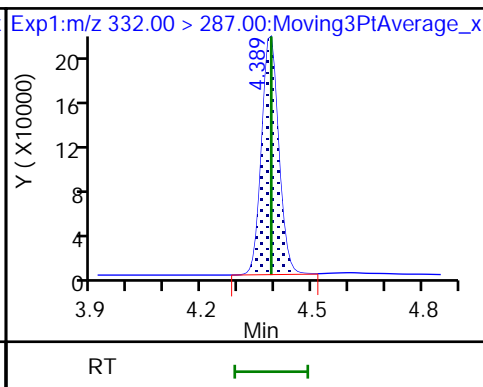
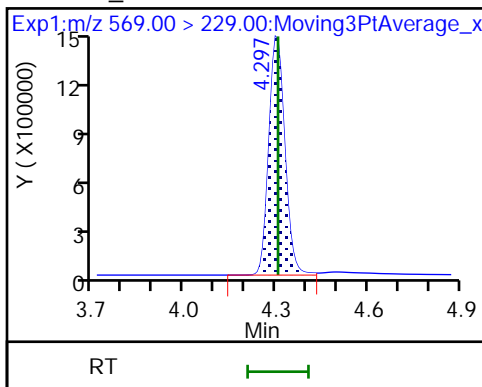
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

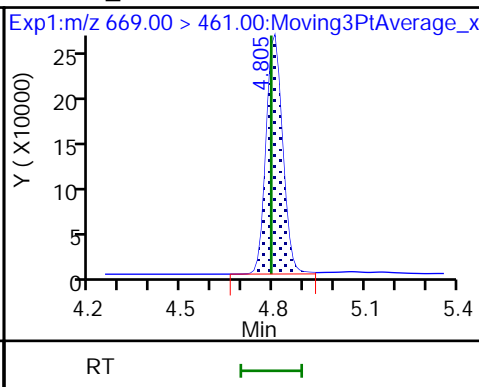
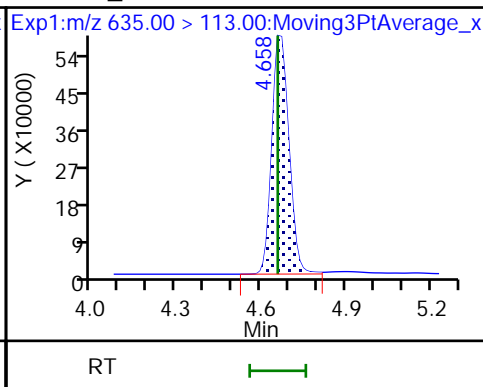
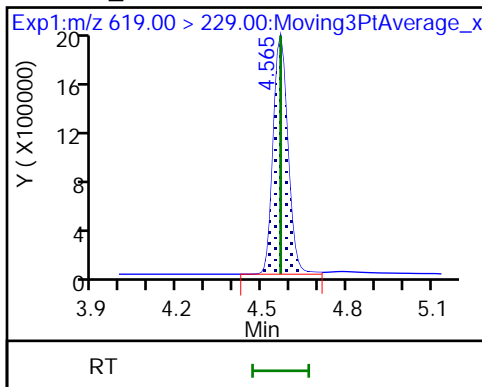
5 BFS_A4B



7 BFS_AB3

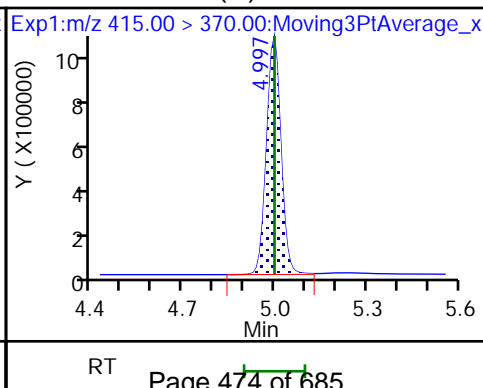
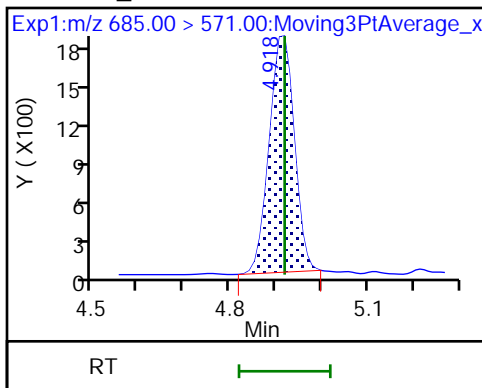
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

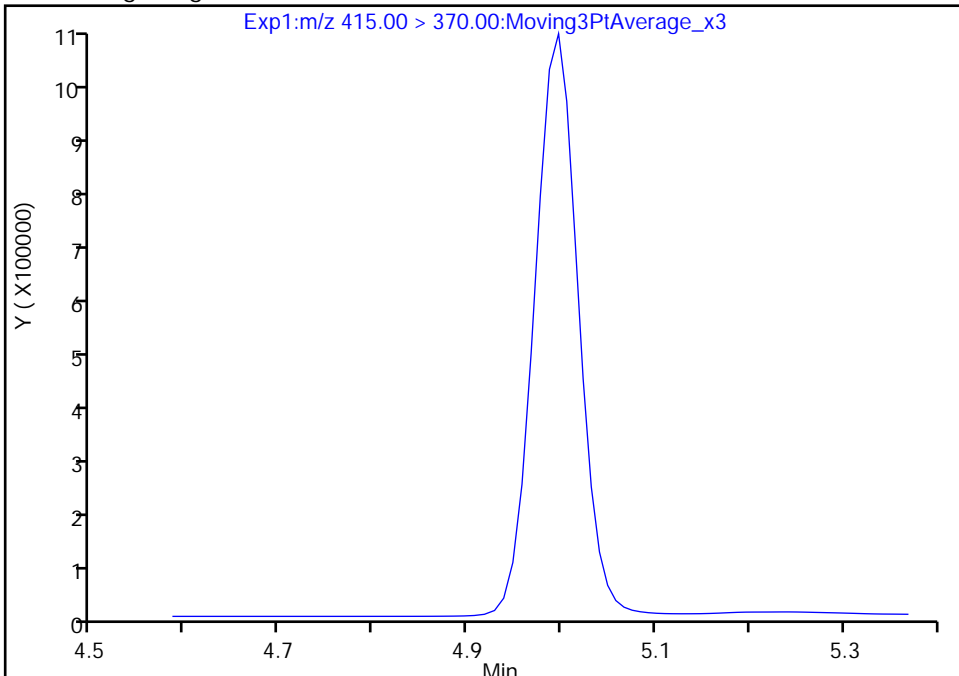
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-04.d
Injection Date: 09-Aug-2022 03:24:34 Instrument ID: 30733
Lims ID: LCS 410-279981/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

* 11 13C2 PFOA, CAS: STL00623

Signal: 1

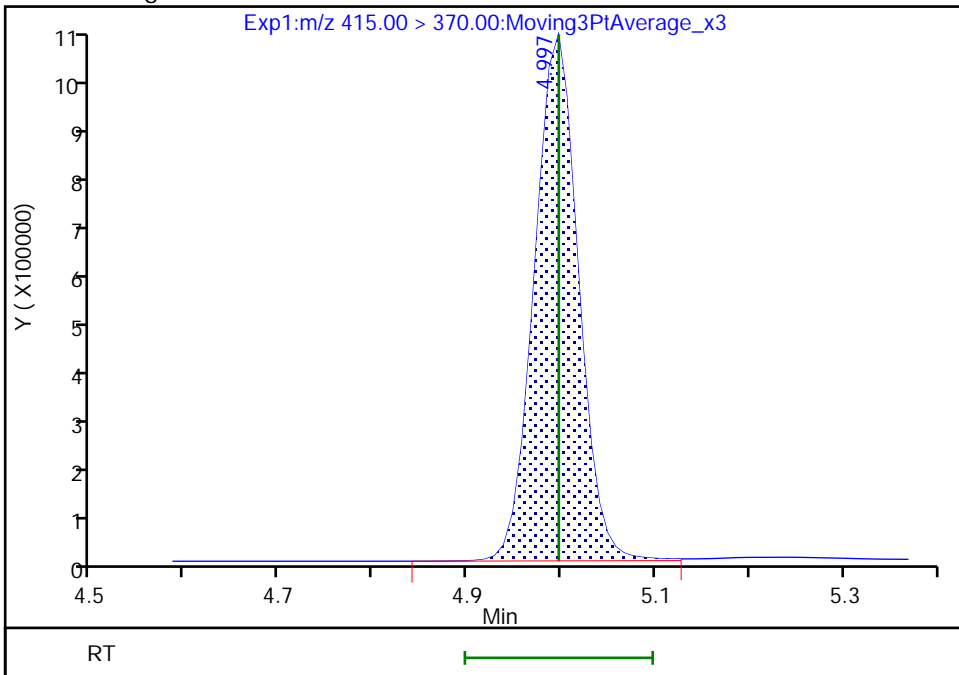
Not Detected
Expected RT: 5.00

Processing Integration Results



RT: 5.00
Area: 3267519
Amount: 5.000000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 10:14:17
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-285075/2-A

Matrix: Water Lab File ID: 22AUG13BFS-18.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 06:10

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	246		1.4	0.40
STL02887	BFS_A2B3	4.16		1.1	0.40
STL02880	BFS_A3B	39.5		0.60	0.20
STL02885	BFS_A3B2	44.0		0.80	0.20
STL02883	BFS_A4B	20.1		0.40	0.20
STL02879	BFS_AB2	37.7		0.60	0.080
STL02884	BFS_AB3	246		1.5	0.40
STL02881	BFS_B3	125		0.70	0.30
STL02886	BFS_B4	60.1		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d
 Lims ID: LCS 410-285075/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 14-Aug-2022 06:10:20 ALS Bottle#: 14 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-285075/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:37:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.923	3.932	-0.009	0.902	2207538	9.43	118	16586
2 BFS_A3B	519.00 > 113.00	4.002	4.010	-0.008	0.920	2588914	9.86	110	764
3 BFS_B3	553.00 > 345.00	4.153	4.163	-0.010	0.955	4554378	31.3	110	745
4 BFS_A2B2	569.00 > 229.00	4.265	4.263	0.002	0.981	6407637	61.4	98.3	1018
D 6 13C3 HFPO-DA	332.00 > 287.00	4.348	4.346	0.002	0.877	677430	5.29	106	923
5 BFS_A4B	585.00 > 113.00	4.348	4.355	-0.007	1.000	1624795	5.02	101	1165
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	8795349	61.4	91.8	1277
8 BFS_A3B2	635.00 > 113.00	4.628	4.627	0.001	1.064	3037237	11.0	93.3	789
9 BFS_B4	669.00 > 461.00	4.761	4.760	0.0	1.095	1364024	15.0	96.6	811
10 BFS_A2B3	685.00 > 571.00	4.874	4.874	0.0	1.121	9449	1.04	88.2	237 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3188725	5.00	961	a

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d

Injection Date: 14-Aug-2022 06:10:20

Instrument ID: 30733

Lims ID: LCS 410-285075/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

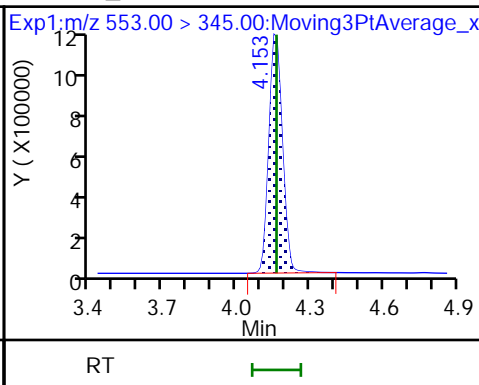
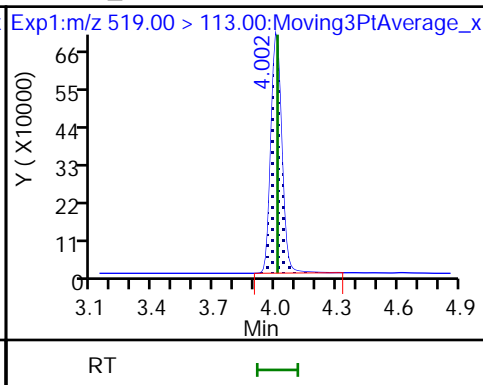
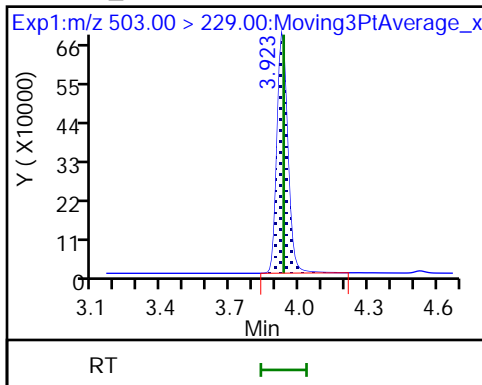
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

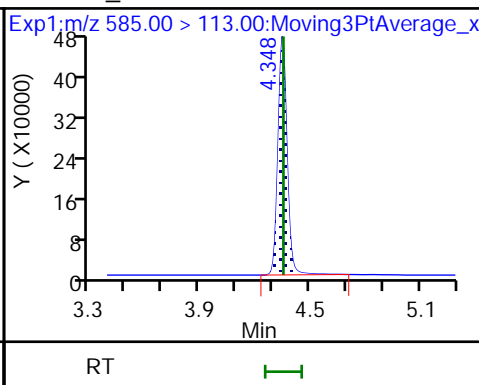
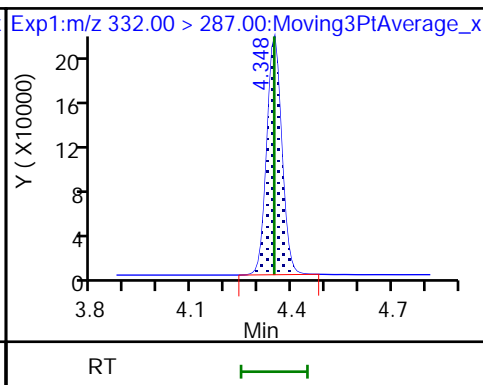
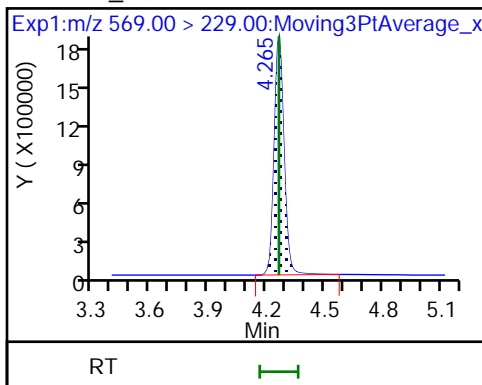
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

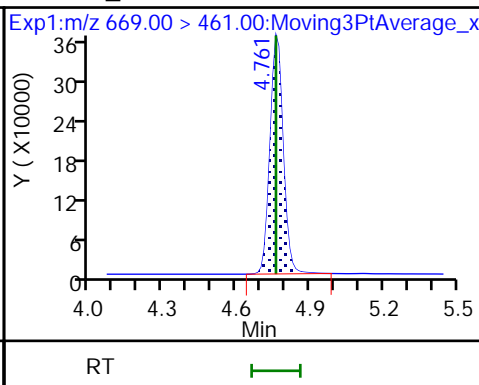
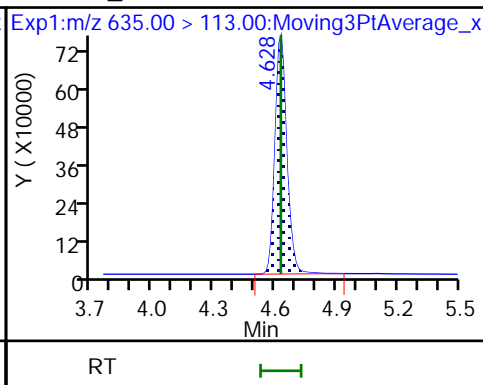
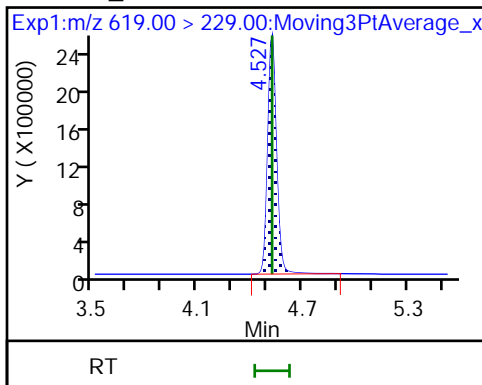
5 BFS_A4B



7 BFS_AB3

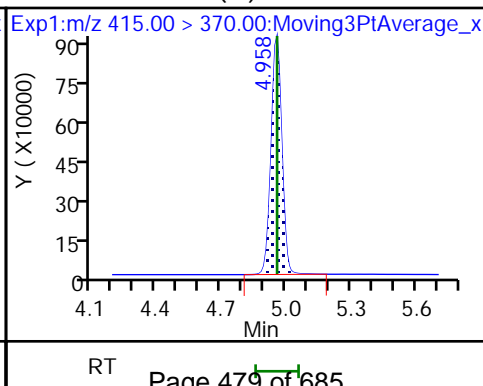
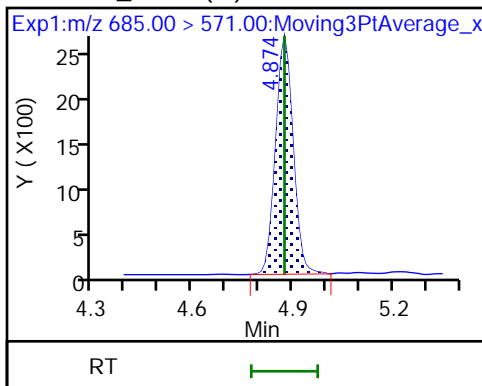
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

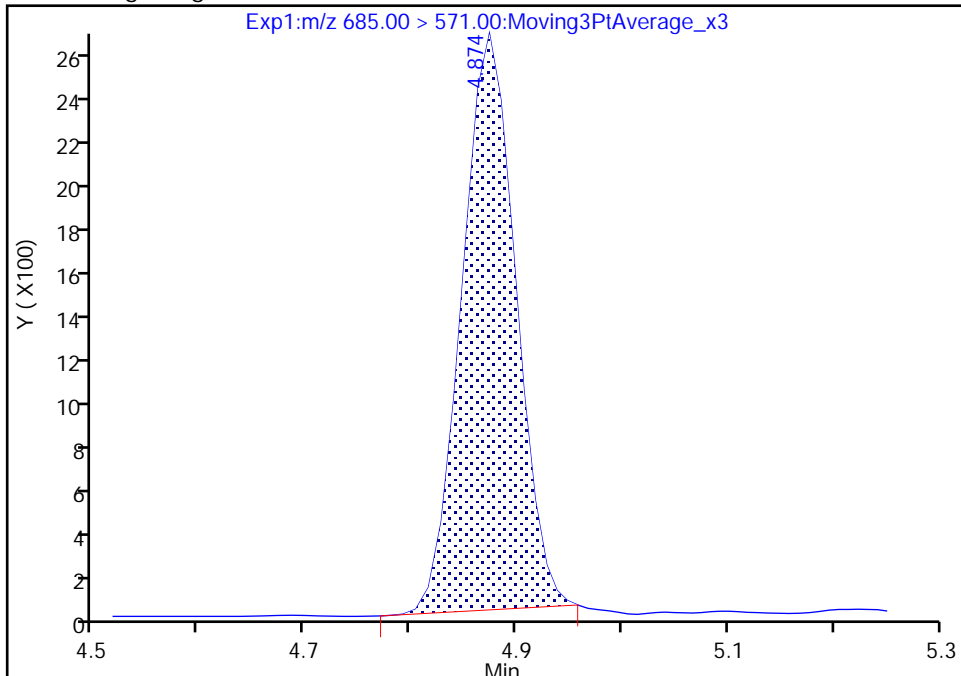
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d
Injection Date: 14-Aug-2022 06:10:20 Instrument ID: 30733
Lims ID: LCS 410-285075/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

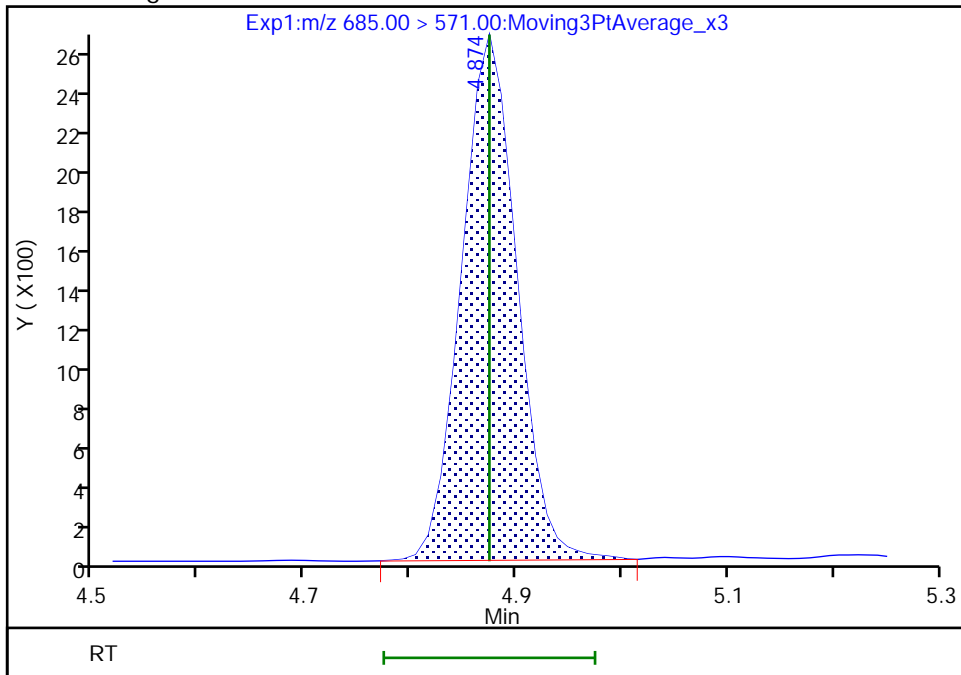
RT: 4.87
Area: 9139
Amount: 1.005464
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 9449
Amount: 1.039601
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:37:41
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 480 of 685

Eurofins Lancaster Laboratories Environment Testing, LLC

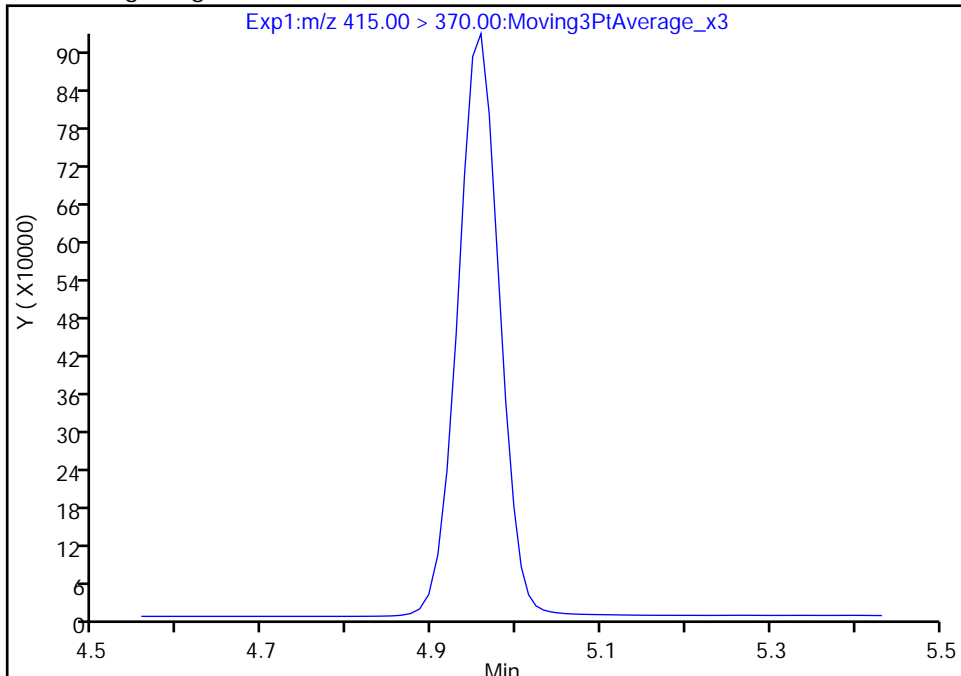
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d
Injection Date: 14-Aug-2022 06:10:20 Instrument ID: 30733
Lims ID: LCS 410-285075/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

* 11 13C2 PFOA, CAS: STL00623

Signal: 1

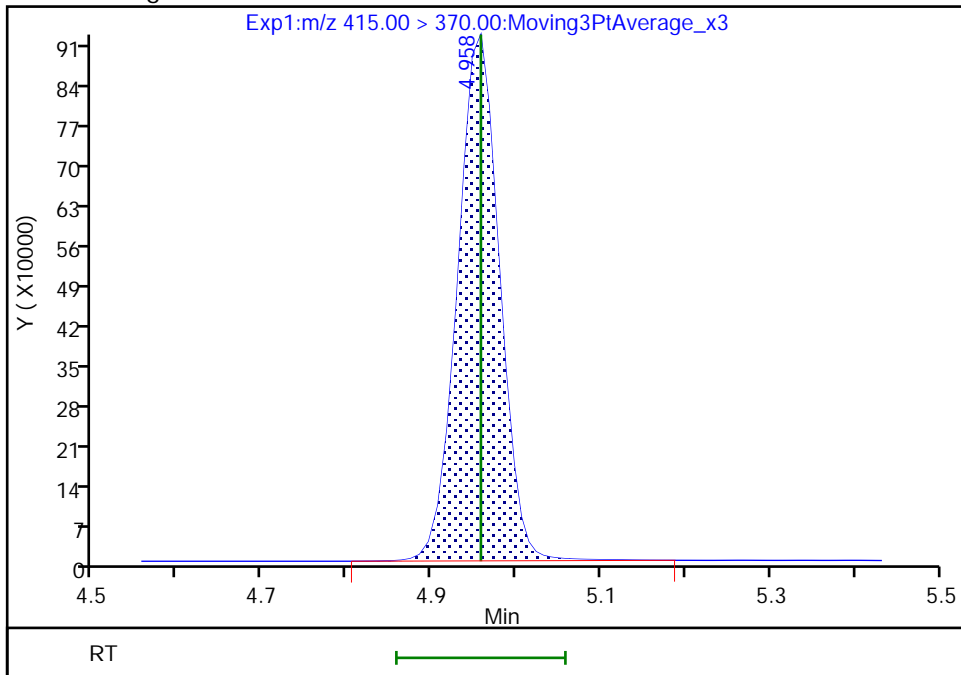
Not Detected
Expected RT: 4.96

Processing Integration Results



RT: 4.96
Area: 3188725
Amount: 5.000000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:37:30
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-279976/3-A

Matrix: Water Lab File ID: 22AUG09BFS-06.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 250 (mL) Date Analyzed: 08/10/2022 03:29

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	294		1.4	0.40
STL02887	BFS_A2B3	5.97		1.1	0.40
STL02880	BFS_A3B	44.8		0.60	0.20
STL02885	BFS_A3B2	57.1		0.80	0.20
STL02883	BFS_A4B	22.5		0.40	0.20
STL02879	BFS_AB2	48.5		0.60	0.080
STL02884	BFS_AB3	324		1.5	0.40
STL02881	BFS_B3	134		0.70	0.30
STL02886	BFS_B4	78.6		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	90		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-06.d
 Lims ID: LCSD 410-279976/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 10-Aug-2022 03:29:43 ALS Bottle#: 15 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 410-279976/3-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:31:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.960	-0.008	0.902	2278675	12.1	151	9258
2 BFS_A3B	519.00 > 113.00	4.033	4.042	-0.009	0.921	2380907	11.2	125	264
3 BFS_B3	553.00 > 345.00	4.190	4.200	-0.010	0.956	3984545	33.5	117	218
4 BFS_A2B2	569.00 > 229.00	4.298	4.304	-0.006	0.981	5866963	73.6	118	235
D 6 13C3 HFPO-DA	332.00 > 287.00	4.381	4.388	-0.007	0.879	702982	4.50	90.0	331
5 BFS_A4B	585.00 > 113.00	4.381	4.388	-0.007	1.000	1537333	5.62	114	286
7 BFS_AB3	619.00 > 229.00	4.556	4.564	-0.008	1.040	8527152	80.9	121	339
8 BFS_A3B2	635.00 > 113.00	4.660	4.657	0.003	1.063	2822624	14.3	121	280
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.094	1260581	19.7	126	299
10 BFS_A2B3	685.00 > 571.00	4.907	4.907	0.0	1.120	8954	1.49	127	155
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		3646408	5.00		352

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-06.d

Injection Date: 10-Aug-2022 03:29:43

Instrument ID: 30733

Lims ID: LCSD 410-279976/3-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 15

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

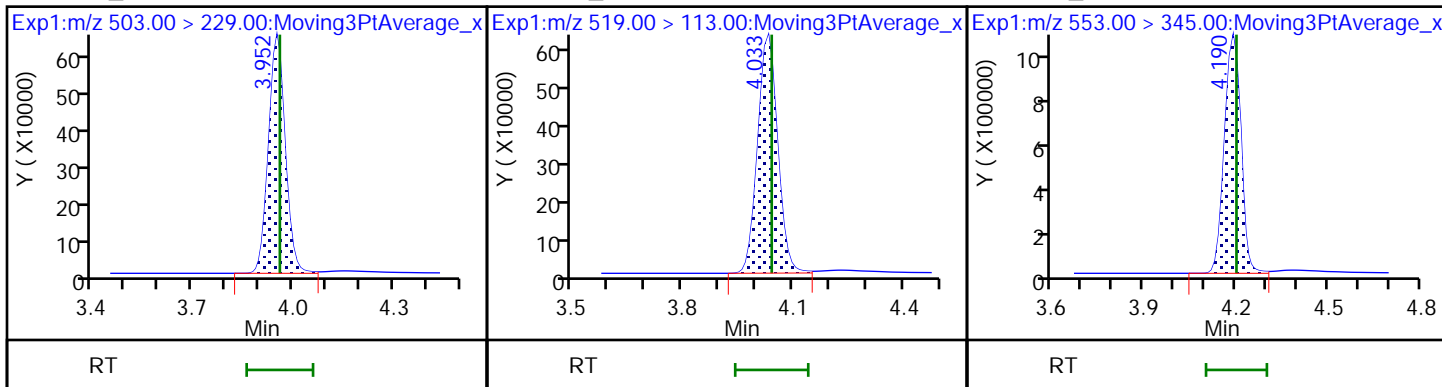
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

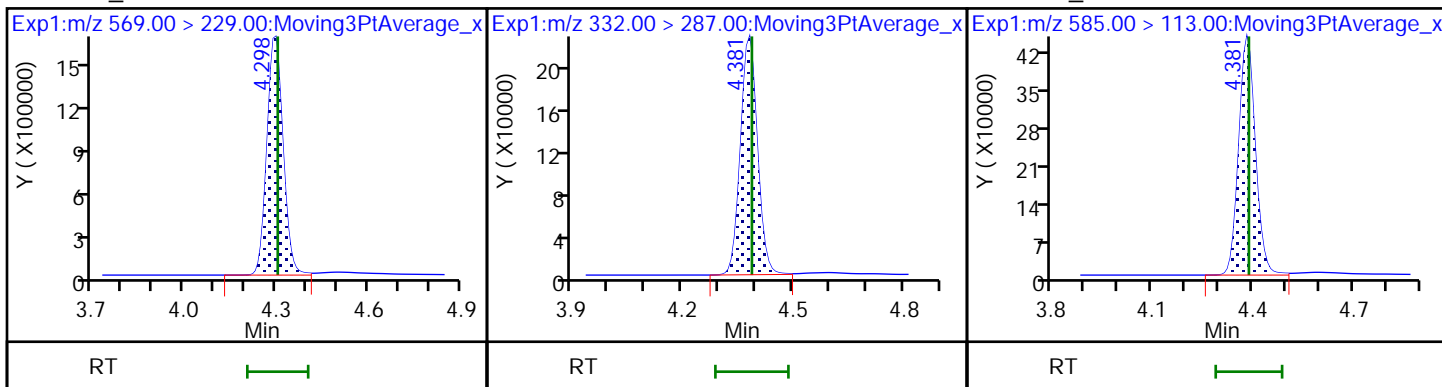
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

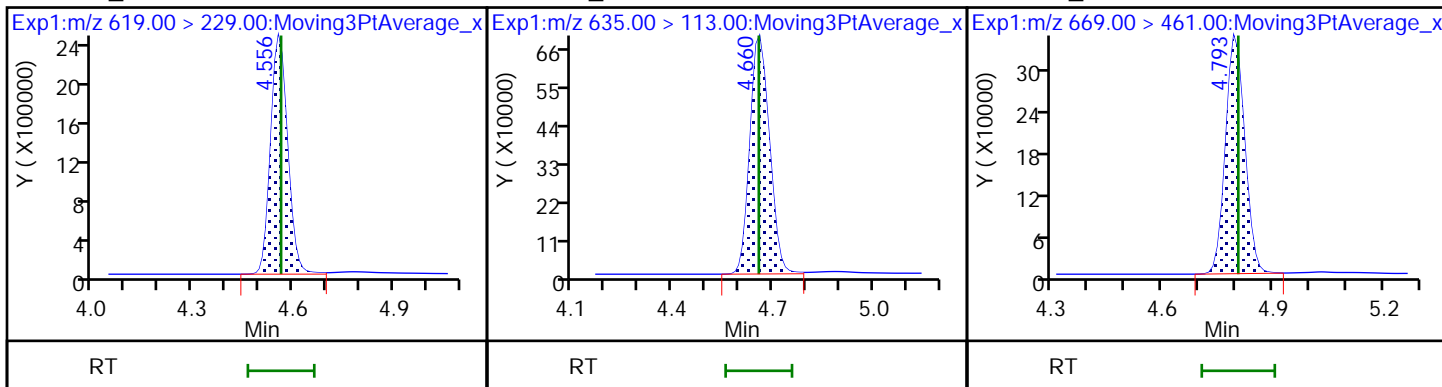
5 BFS_A4B



7 BFS_AB3

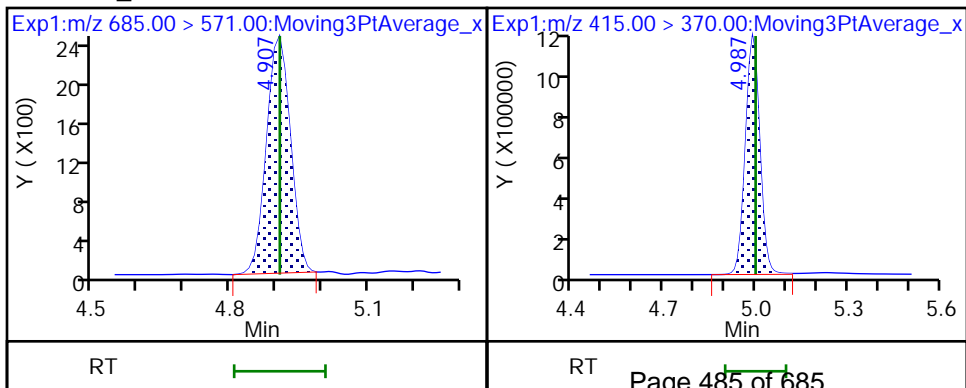
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-285075/3-A

Matrix: Water Lab File ID: 22AUG13BFS-19.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 06:22

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	267		1.4	0.40
STL02887	BFS_A2B3	4.48		1.1	0.40
STL02880	BFS_A3B	42.7		0.60	0.20
STL02885	BFS_A3B2	47.8		0.80	0.20
STL02883	BFS_A4B	21.5		0.40	0.20
STL02879	BFS_AB2	41.1		0.60	0.080
STL02884	BFS_AB3	272		1.5	0.40
STL02881	BFS_B3	131		0.70	0.30
STL02886	BFS_B4	63.8		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d
 Lims ID: LCSD 410-285075/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 14-Aug-2022 06:22:53 ALS Bottle#: 15 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 410-285075/3-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:38:07
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.922	3.932	-0.010	0.902	2205925	10.3	128	14938
2 BFS_A3B	519.00 > 113.00	3.999	4.010	-0.011	0.920	2569606	10.7	119	690
3 BFS_B3	553.00 > 345.00	4.151	4.163	-0.012	0.955	4363708	32.7	115	700
4 BFS_A2B2	569.00 > 229.00	4.263	4.263	0.0	0.981	6368197	66.6	107	97174
D 6 13C3 HFPO-DA	332.00 > 287.00	4.346	4.346	0.0	0.877	620956	4.87	97.5	944
5 BFS_A4B	585.00 > 113.00	4.346	4.355	-0.009	1.000	1595004	5.38	109	818
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.041	8911609	68.1	102	1269
8 BFS_A3B2	635.00 > 113.00	4.626	4.627	-0.001	1.064	3020544	11.9	101	758
9 BFS_B4	669.00 > 461.00	4.760	4.760	0.0	1.095	1325972	16.0	103	802
10 BFS_A2B3	685.00 > 571.00	4.874	4.874	0.0	1.121	9327	1.12	95.0	245 M
* 11 13C2 PFOA	415.00 > 370.00	4.957	4.958	-0.001		3174670	5.00	858	a

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d

Injection Date: 14-Aug-2022 06:22:53

Instrument ID: 30733

Lims ID: LCSD 410-285075/3-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 15

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

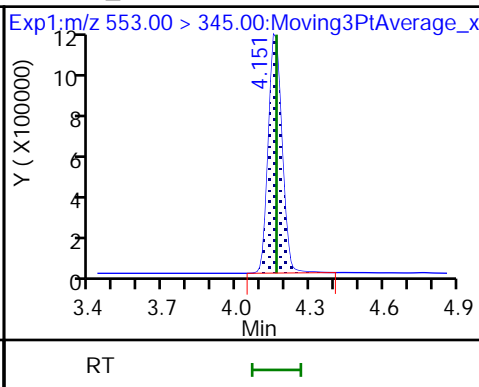
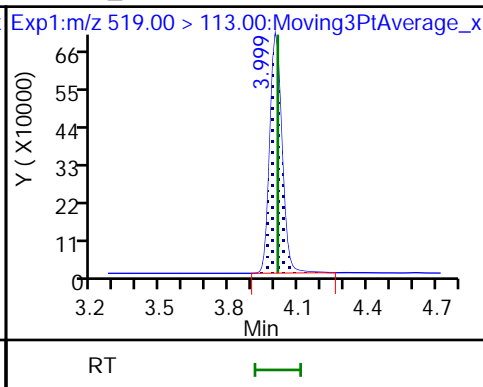
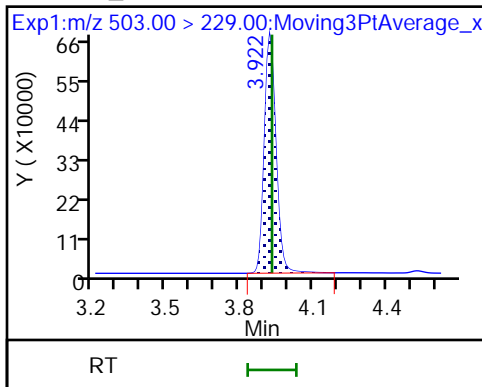
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

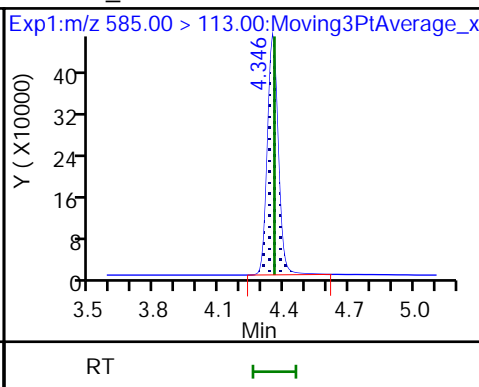
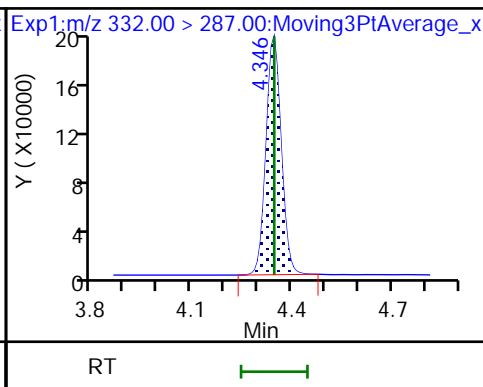
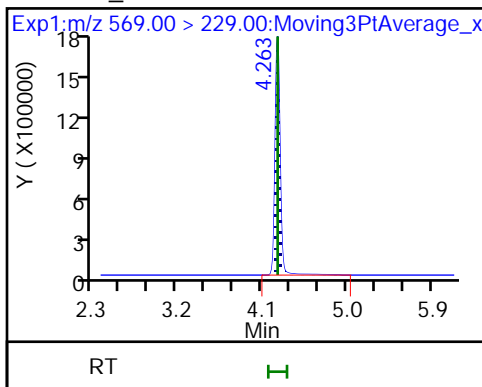
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

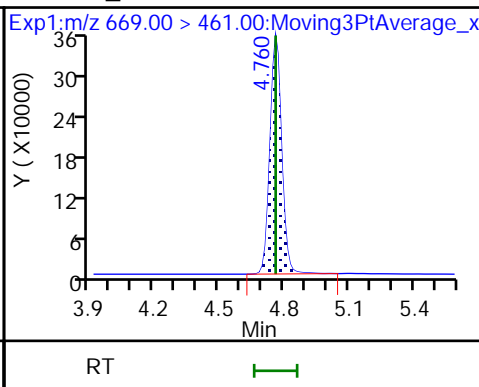
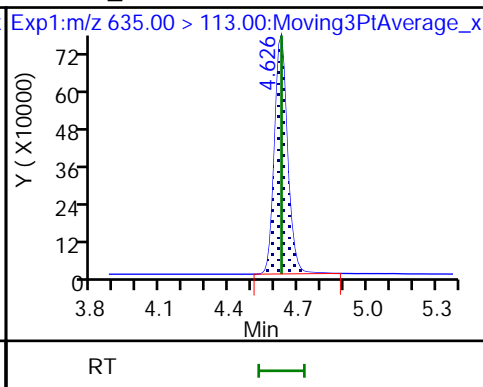
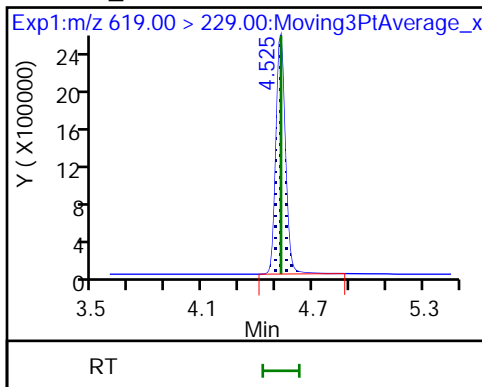
5 BFS_A4B



7 BFS_AB3

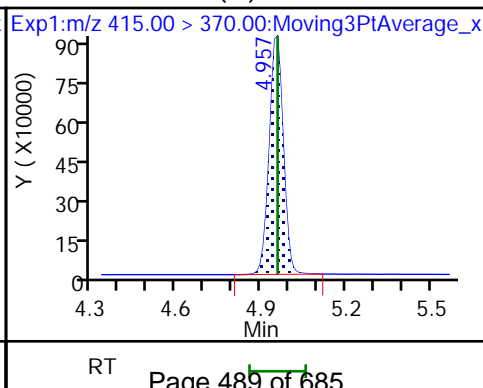
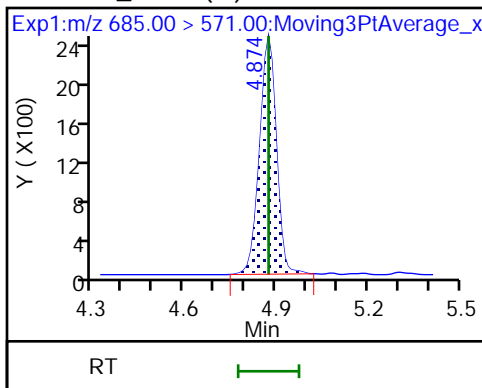
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

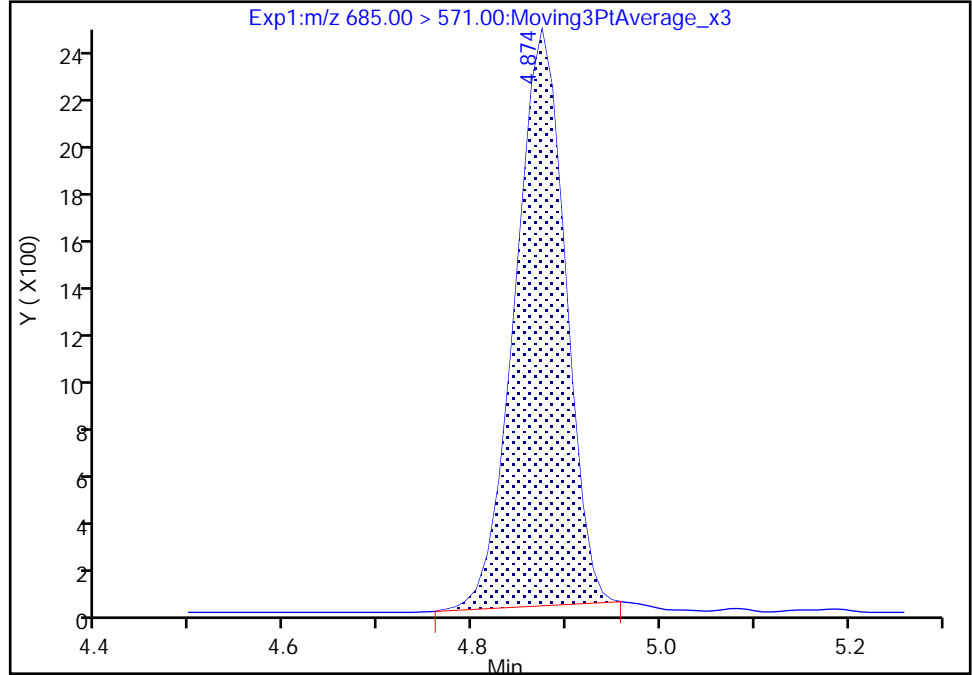
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d
Injection Date: 14-Aug-2022 06:22:53 Instrument ID: 30733
Lims ID: LCSD 410-285075/3-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 15 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

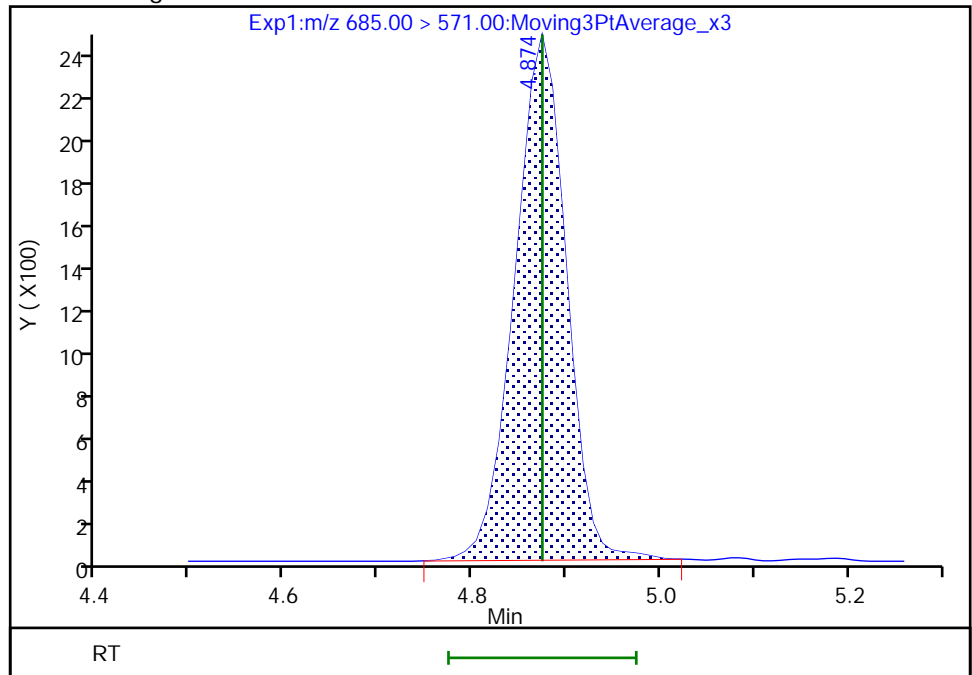
RT: 4.87
Area: 9018
Amount: 1.082456
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 9327
Amount: 1.119577
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:38:02
Audit Action: Manually Integrated

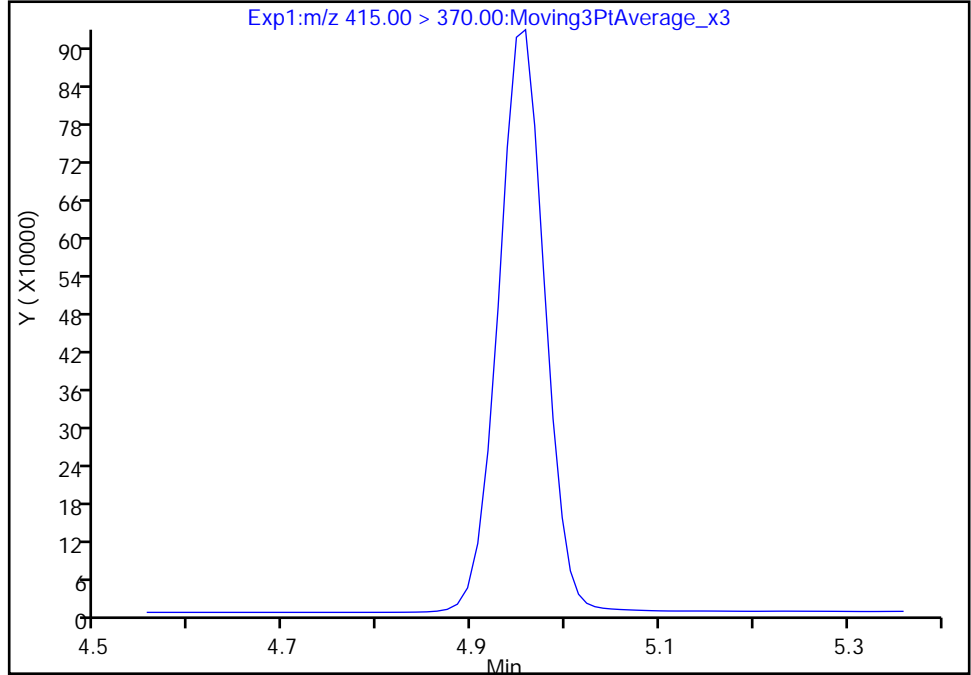
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d
Injection Date: 14-Aug-2022 06:22:53 Instrument ID: 30733
Lims ID: LCSD 410-285075/3-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 15 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

* 11 13C2 PFOA, CAS: STL00623
Signal: 1

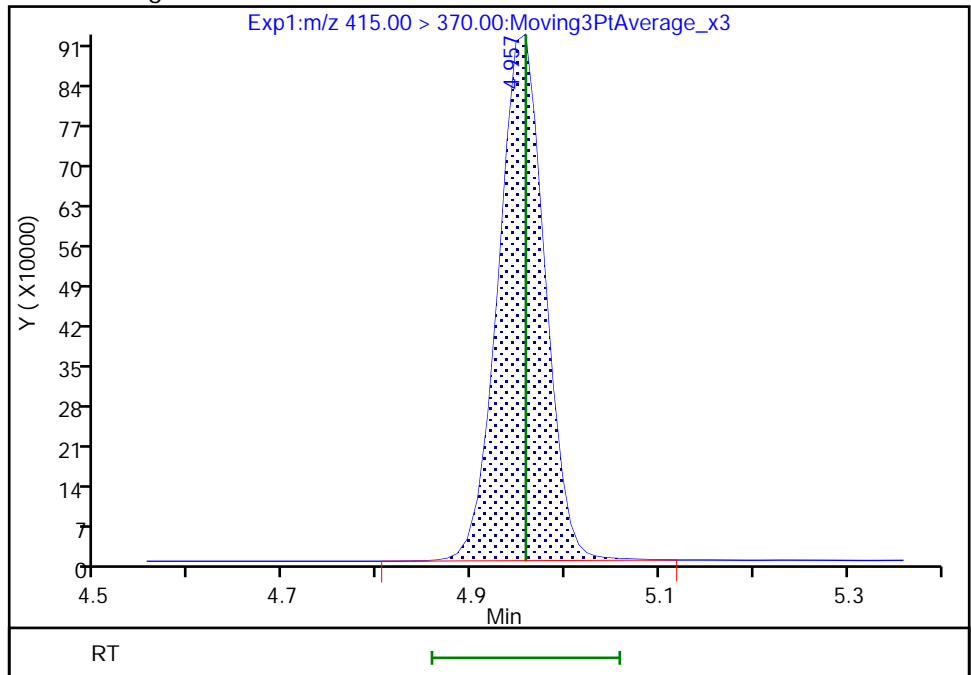
Not Detected
Expected RT: 4.96

Processing Integration Results



RT: 4.96
Area: 3174670
Amount: 5.000000
Amount Units: ng/ml

Manual Integration Results



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/09/2022 00:03

Analysis Batch Number: 283892 End Date: 08/09/2022 02:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-283892/1		08/09/2022 00:03	1	22AUG08BFSCAL-0 3.d	Gemini C18 50mm 3 (mm)
IC 410-283892/2		08/09/2022 00:15	1	22AUG08BFSCAL-0 4.d	Gemini C18 50mm 3 (mm)
IC 410-283892/3		08/09/2022 00:28	1	22AUG08BFSCAL-0 5.d	Gemini C18 50mm 3 (mm)
IC 410-283892/4		08/09/2022 00:40	1	22AUG08BFSCAL-0 6.d	Gemini C18 50mm 3 (mm)
ICISAV 410-283892/5		08/09/2022 00:53	1	22AUG08BFSCAL-0 7.d	Gemini C18 50mm 3 (mm)
IC 410-283892/6		08/09/2022 01:06	1	22AUG08BFSCAL-0 8.d	Gemini C18 50mm 3 (mm)
IC 410-283892/7		08/09/2022 01:18	1	22AUG08BFSCAL-0 9.d	Gemini C18 50mm 3 (mm)
IC 410-283892/8		08/09/2022 01:31	1	22AUG08BFSCAL-1 0.d	Gemini C18 50mm 3 (mm)
IC 410-283892/9		08/09/2022 01:43	1	22AUG08BFSCAL-1 1.d	Gemini C18 50mm 3 (mm)
IC 410-283892/10		08/09/2022 01:56	1	22AUG08BFSCAL-1 2.d	Gemini C18 50mm 3 (mm)
ICB 410-283892/11		08/09/2022 02:09	1	22AUG08BFSCAL-1 3.d	Gemini C18 50mm 3 (mm)
ICV 410-283892/12		08/09/2022 02:21	1	22AUG08BFSCAL-1 4.d	Gemini C18 50mm 3 (mm)
CCV 410-283892/13		08/09/2022 02:34	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.:

Instrument ID: 30733

Start Date: 08/09/2022 02:46

Analysis Batch Number: 283897

End Date: 08/09/2022 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283897/1		08/09/2022 02:46	1	22AUG05BFS-01.d	Gemini C18 50mm 3 (mm)
CCV 410-283897/2		08/09/2022 02:59	1	22AUG05BFS-02.d	Gemini C18 50mm 3 (mm)
MB 410-279981/1-A		08/09/2022 03:11	1	22AUG05BFS-03.d	Gemini C18 50mm 3 (mm)
LCS 410-279981/2-A		08/09/2022 03:24	1	22AUG05BFS-04.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 03:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 03:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:14	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:27	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:40	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:30	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/15		08/09/2022 05:43	1	22AUG05BFS-15.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:08	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/18		08/09/2022 06:20	1	22AUG05BFS-18.d	Gemini C18 50mm 3 (mm)
410-90799-1	MW-124S	08/09/2022 06:33	1	22AUG05BFS-19.d	Gemini C18 50mm 3 (mm)
410-90799-2	MW-124D	08/09/2022 06:46	1	22AUG05BFS-20.d	Gemini C18 50mm 3 (mm)
410-90799-3	MW-111S	08/09/2022 06:58	1	22AUG05BFS-21.d	Gemini C18 50mm 3 (mm)
410-90799-4	MW-111D	08/09/2022 07:11	1	22AUG05BFS-22.d	Gemini C18 50mm 3 (mm)
410-90799-5	MW-110S	08/09/2022 07:23	1	22AUG05BFS-23.d	Gemini C18 50mm 3 (mm)
410-90799-6	MW-110D	08/09/2022 07:36	1	22AUG05BFS-24.d	Gemini C18 50mm 3 (mm)
410-90799-7	MW-36D	08/09/2022 07:49	1	22AUG05BFS-25.d	Gemini C18 50mm 3 (mm)
410-90799-8	MW-42D	08/09/2022 08:01	1	22AUG05BFS-26.d	Gemini C18 50mm 3 (mm)
410-90799-9	EB_071122	08/09/2022 08:14	1	22AUG05BFS-27.d	Gemini C18 50mm 3 (mm)
CCV 410-283897/29		08/09/2022 08:39	1	22AUG05BFS-29.d	Gemini C18 50mm 3 (mm)
MB 410-279976/1-A		08/09/2022 08:51	1	22AUG05BFS-30.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:04	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:17	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:29	1		Gemini C18 50mm 3 (mm)
410-90799-11	MW-43D	08/09/2022 09:42	1	22AUG05BFS-34.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:54	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:07	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:20	1		Gemini C18 50mm 3 (mm)
410-90799-15	MW-38D	08/09/2022 10:32	1	22AUG05BFS-38.d	Gemini C18 50mm 3 (mm)
410-90799-16	MW-33S	08/09/2022 10:45	1	22AUG05BFS-39.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:58	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/41		08/09/2022 11:10	1	22AUG05BFS-41.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 11:23	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/48		08/09/2022 12:38	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/10/2022 02:25

Analysis Batch Number: 284260 End Date: 08/10/2022 06:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-284260/1		08/10/2022 02:25	1	22AUG09BFS-01.d	Gemini C18 50mm 3 (mm)
CCV 410-284260/4		08/10/2022 03:04	1	22AUG09BFS-04.d	Gemini C18 50mm 3 (mm)
LCS 410-279976/2-A		08/10/2022 03:17	1	22AUG09BFS-05.d	Gemini C18 50mm 3 (mm)
LCSD 410-279976/3-A		08/10/2022 03:29	1	22AUG09BFS-06.d	Gemini C18 50mm 3 (mm)
410-90799-10	MW-43I	08/10/2022 03:42	1	22AUG09BFS-07.d	Gemini C18 50mm 3 (mm)
410-90799-12	MW-19D	08/10/2022 04:07	10	22AUG09BFS-09.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 04:32	1		Gemini C18 50mm 3 (mm)
410-90799-13	MW-19I	08/10/2022 04:45	10	22AUG09BFS-12.d	Gemini C18 50mm 3 (mm)
410-90799-14	MW-19S	08/10/2022 04:58	1	22AUG09BFS-13.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 05:10	1		Gemini C18 50mm 3 (mm)
410-90799-17	MW-41D	08/10/2022 05:23	1	22AUG09BFS-15.d	Gemini C18 50mm 3 (mm)
CCV 410-284260/16		08/10/2022 05:35	1	22AUG09BFS-16.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 05:48	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 06:01	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 06:13	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 06:26	1		Gemini C18 50mm 3 (mm)
CCV 410-284260/21		08/10/2022 06:38	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/14/2022 02:34

Analysis Batch Number: 285706 End Date: 08/14/2022 05:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-285706/1		08/14/2022 02:34	1	22AUG13BFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-285706/2		08/14/2022 02:48	1	22AUG13BFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-285706/3		08/14/2022 03:01	1	22AUG13BFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-285706/4		08/14/2022 03:13	1	22AUG13BFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-285706/5		08/14/2022 03:26	1	22AUG13BFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-285706/6		08/14/2022 03:39	1	22AUG13BFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-285706/7		08/14/2022 03:51	1	22AUG13BFS-07.d	Gemini C18 50mm 3 (mm)
IC 410-285706/8		08/14/2022 04:04	1	22AUG13BFS-08.d	Gemini C18 50mm 3 (mm)
IC 410-285706/9		08/14/2022 04:16	1	22AUG13BFS-09.d	Gemini C18 50mm 3 (mm)
IC 410-285706/10		08/14/2022 04:29	1	22AUG13BFS-10.d	Gemini C18 50mm 3 (mm)
ICB 410-285706/11		08/14/2022 04:42	1	22AUG13BFS-11.d	Gemini C18 50mm 3 (mm)
ICV 410-285706/12		08/14/2022 04:54	1	22AUG13BFS-12.d	Gemini C18 50mm 3 (mm)
CCV 410-285706/13		08/14/2022 05:07	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/14/2022 05:32

Analysis Batch Number: 285708 End Date: 08/14/2022 12:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-285708/1		08/14/2022 05:32	1	22AUG13BFS-15.d	Gemini C18 50mm 3 (mm)
CCV 410-285708/2		08/14/2022 05:45	1	22AUG13BFS-16.d	Gemini C18 50mm 3 (mm)
MB 410-285075/1-A		08/14/2022 05:57	1	22AUG13BFS-17.d	Gemini C18 50mm 3 (mm)
LCS 410-285075/2-A		08/14/2022 06:10	1	22AUG13BFS-18.d	Gemini C18 50mm 3 (mm)
LCSD 410-285075/3-A		08/14/2022 06:22	1	22AUG13BFS-19.d	Gemini C18 50mm 3 (mm)
410-90799-10 RE	MW-43I RE	08/14/2022 06:35	1	22AUG13BFS-20.d	Gemini C18 50mm 3 (mm)
410-90799-11 RE	MW-43D RE	08/14/2022 06:48	1	22AUG13BFS-21.d	Gemini C18 50mm 3 (mm)
410-90799-13 RE	MW-19I RE	08/14/2022 07:13	1	22AUG13BFS-23.d	Gemini C18 50mm 3 (mm)
410-90799-14 RE	MW-19S RE	08/14/2022 07:25	1	22AUG13BFS-24.d	Gemini C18 50mm 3 (mm)
410-90799-15 RE	MW-38D RE	08/14/2022 07:38	1	22AUG13BFS-25.d	Gemini C18 50mm 3 (mm)
410-90799-16 RE	MW-33S RE	08/14/2022 07:51	1	22AUG13BFS-26.d	Gemini C18 50mm 3 (mm)
410-90799-17 RE	MW-41D RE	08/14/2022 08:03	1	22AUG13BFS-27.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 08:16	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 08:28	1		Gemini C18 50mm 3 (mm)
CCV 410-285708/16		08/14/2022 08:41	1	22AUG13BFS-30.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 08:54	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 09:06	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 09:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 09:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 09:57	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:22	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:47	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:00	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:12	1		Gemini C18 50mm 3 (mm)
CCV 410-285708/29		08/14/2022 11:25	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:50	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 12:03	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 12:15	1		Gemini C18 50mm 3 (mm)
CCV 410-285708/35		08/14/2022 12:40	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/15/2022 09:11

Analysis Batch Number: 285953 End Date: 08/15/2022 10:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-285953/1		08/15/2022 09:11	1	22AUG15BFS-05.d	Gemini C18 50mm 3 (mm)
CCV 410-285953/2		08/15/2022 09:25	1	22AUG15BFS-06.d	Gemini C18 50mm 3 (mm)
410-90799-12 RE	MW-19D RE	08/15/2022 09:38	10	22AUG15BFS-07.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/15/2022 09:50	1		Gemini C18 50mm 3 (mm)
CCV 410-285953/5		08/15/2022 10:03	1	22AUG15BFS-09.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 279976 Batch Start Date: 07/27/22 10:06 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00013
MB 410-279976/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279976/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
LCSD 410-279976/3		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90799-B-10	MW-43I	3535, BFS	T	326.86 g	27.39 g	299.5 mL	1 mL		0.1 mL
410-90799-B-11	MW-43D	3535, BFS	T	325.07 g	27.20 g	297.9 mL	1 mL		0.1 mL
410-90799-B-12	MW-19D	3535, BFS	T	327.33 g	27.17 g	300.2 mL	1 mL		0.1 mL
410-90799-B-13	MW-19I	3535, BFS	T	302.93 g	27.21 g	275.7 mL	1 mL		0.1 mL
410-90799-B-14	MW-19S	3535, BFS	T	329.38 g	27.28 g	302.1 mL	1 mL		0.1 mL
410-90799-B-15	MW-38D	3535, BFS	T	319.15 g	27.13 g	292 mL	1 mL		0.1 mL
410-90799-B-16	MW-33S	3535, BFS	T	309.37 g	27.39 g	282 mL	1 mL		0.1 mL
410-90799-B-17	MW-41D	3535, BFS	T	354.00 g	27.46 g	326.5 mL	1 mL		0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	11, 8
Pipette/Syringe/Dispenser ID	P10-9, PFAS 7, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	37507262233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	EBG 20094
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 279981 Batch Start Date: 07/27/22 10:12 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00013
MB 410-279981/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279981/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-90799-B-1	MW-124S	3535, BFS	T	342.66 g	27.17 g	315.5 mL	1 mL		0.1 mL
410-90799-B-2	MW-124D	3535, BFS	T	296.97 g	27.42 g	269.6 mL	1 mL		0.1 mL
410-90799-B-3	MW-111S	3535, BFS	T	331.88 g	27.82 g	304.1 mL	1 mL		0.1 mL
410-90799-B-4	MW-111D	3535, BFS	T	321.96 g	27.25 g	294.7 mL	1 mL		0.1 mL
410-90799-B-5	MW-110S	3535, BFS	T	326.20 g	27.41 g	298.8 mL	1 mL		0.1 mL
410-90799-B-6	MW-110D	3535, BFS	T	306.38 g	27.34 g	279 mL	1 mL		0.1 mL
410-90799-B-7	MW-36D	3535, BFS	T	328.20 g	27.55 g	300.7 mL	1 mL		0.1 mL
410-90799-B-8	MW-42D	3535, BFS	T	310.02 g	27.45 g	282.6 mL	1 mL		0.1 mL
410-90799-B-9	EB_071122	3535, BFS	T	305.97 g	27.27 g	278.7 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-279981/1		3535, BFS							
LCS 410-279981/2		3535, BFS							
410-90799-B-1	MW-124S	3535, BFS	T						
410-90799-B-2	MW-124D	3535, BFS	T						
410-90799-B-3	MW-111S	3535, BFS	T						
410-90799-B-4	MW-111D	3535, BFS	T	Required Vacuum					
410-90799-B-5	MW-110S	3535, BFS	T	Required Vacuum					
410-90799-B-6	MW-110D	3535, BFS	T						
410-90799-B-7	MW-36D	3535, BFS	T						
410-90799-B-8	MW-42D	3535, BFS	T						
410-90799-B-9	EB_071122	3535, BFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 279981 Batch Start Date: 07/27/22 10:12 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	9, 21
Pipette/Syringe/Dispenser ID	P10-9, PFAS 7, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	37507262233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	LB 44841
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 283892 Batch Start Date: 08/09/22 00:03 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-283892/1		BFS					200 uL		
IC 410-283892/2		BFS							200 uL
IC 410-283892/3		BFS							
IC 410-283892/4		BFS							
ICISAV 410-283892/5		BFS							
IC 410-283892/6		BFS							
IC 410-283892/7		BFS							
IC 410-283892/8		BFS							
IC 410-283892/9		BFS							
IC 410-283892/10		BFS						200 uL	
ICB 410-283892/11		BFS			10 uL	50 uL			
ICV 410-283892/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-283892/1		BFS							
IC 410-283892/2		BFS							
IC 410-283892/3		BFS		200 uL					
IC 410-283892/4		BFS			200 uL				
ICISAV 410-283892/5		BFS				200 uL			
IC 410-283892/6		BFS					200 uL		
IC 410-283892/7		BFS						200 uL	
IC 410-283892/8		BFS							200 uL
IC 410-283892/9		BFS							
IC 410-283892/10		BFS							
ICB 410-283892/11		BFS							
ICV 410-283892/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 283892 Batch Start Date: 08/09/22 00:03 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-283892/1		BFS							
IC 410-283892/2		BFS							
IC 410-283892/3		BFS							
IC 410-283892/4		BFS							
ICISAV 410-283892/5		BFS							
IC 410-283892/6		BFS							
IC 410-283892/7		BFS							
IC 410-283892/8		BFS							
IC 410-283892/9		BFS		200 uL					
IC 410-283892/10		BFS							
ICB 410-283892/11		BFS							
ICV 410-283892/12		BFS							

Batch Notes	
Mobil Phase ID	2996208022233B, 2996208022233D

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 285075 Batch Start Date: 08/11/22 10:35 Batch Analyst: Hammen, Sarah

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00014
MB 410-285075/1		3535, BFS		300 g	50 g	250 mL	1 mL		100 uL
LCS 410-285075/2		3535, BFS		300 g	50 g	250 mL	1 mL	45 uL	100 uL
LCSD 410-285075/3		3535, BFS		300 g	50 g	250 mL	1 mL	45 uL	100 uL
410-90799-C-10	MW-43I	3535, BFS	T	326.99 g	28.51 g	298.5 mL	1 mL		100 uL
410-90799-C-11	MW-43D	3535, BFS	T	344.06 g	28.09 g	316 mL	1 mL		100 uL
410-90799-C-12	MW-19D	3535, BFS	T	319.67 g	27.37 g	292.3 mL	1 mL		100 uL
410-90799-C-13	MW-19I	3535, BFS	T	303.24 g	27.43 g	275.8 mL	1 mL		100 uL
410-90799-C-14	MW-19S	3535, BFS	T	325.22 g	27.61 g	297.6 mL	1 mL		100 uL
410-90799-C-15	MW-38D	3535, BFS	T	330.42 g	28.40 g	302 mL	1 mL		100 uL
410-90799-C-16	MW-33S	3535, BFS	T	312.36 g	28.41 g	284 mL	1 mL		100 uL
410-90799-C-17	MW-41D	3535, BFS	T	331.03 g	28.02 g	303 mL	1 mL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-285075/1		3535, BFS							
LCS 410-285075/2		3535, BFS							
LCSD 410-285075/3		3535, BFS							
410-90799-C-10	MW-43I	3535, BFS	T	discolored, visible sediment					
410-90799-C-11	MW-43D	3535, BFS	T	particulate					
410-90799-C-12	MW-19D	3535, BFS	T						
410-90799-C-13	MW-19I	3535, BFS	T	visible sediment, discolored					
410-90799-C-14	MW-19S	3535, BFS	T						
410-90799-C-15	MW-38D	3535, BFS	T	particulate					
410-90799-C-16	MW-33S	3535, BFS	T	discolored, visible sediment					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 285075 Batch Start Date: 08/11/22 10:35 Batch Analyst: Hammen, Sarah

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-90799-C-17	MW-41D	3535, BFS	T	discolored, visible sediment					

Batch Notes	
SPE Cartridge Lot ID	6679410-01
Balance ID	B629764122
Manifold ID	3, 8
Pipette/Syringe/Dispenser ID	P10-4/PFAS 8, 4
Solvent Name	.3% NH4OH in MeOH
Solvent Lot #	4422108112233A
Analyst ID - Spike Analyst	TB30906
Analyst ID - Spike Witness Analyst	SH19843
Methanol ID	220054
Milli-Q Reagent Water ID	HOUSE A-372
QC Bottle Lot ID	0304101H
Centrifuge Tube ID	20211026-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 285706 Batch Start Date: 08/14/22 02:34 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-285706/1		BFS					200 uL		
IC 410-285706/2		BFS							200 uL
IC 410-285706/3		BFS							
IC 410-285706/4		BFS							
ICISAV 410-285706/5		BFS							
IC 410-285706/6		BFS							
IC 410-285706/7		BFS							
IC 410-285706/8		BFS							
IC 410-285706/9		BFS							
IC 410-285706/10		BFS						200 uL	
ICB 410-285706/11		BFS			10 uL	50 uL			
ICV 410-285706/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-285706/1		BFS							
IC 410-285706/2		BFS							
IC 410-285706/3		BFS		200 uL					
IC 410-285706/4		BFS			200 uL				
ICISAV 410-285706/5		BFS				200 uL			
IC 410-285706/6		BFS					200 uL		
IC 410-285706/7		BFS						200 uL	
IC 410-285706/8		BFS							200 uL
IC 410-285706/9		BFS							
IC 410-285706/10		BFS							
ICB 410-285706/11		BFS							
ICV 410-285706/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 285706 Batch Start Date: 08/14/22 02:34 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-285706/1		BFS							
IC 410-285706/2		BFS							
IC 410-285706/3		BFS							
IC 410-285706/4		BFS							
ICISAV 410-285706/5		BFS							
IC 410-285706/6		BFS							
IC 410-285706/7		BFS							
IC 410-285706/8		BFS							
IC 410-285706/9		BFS		200 uL					
IC 410-285706/10		BFS							
ICB 410-285706/11		BFS							
ICV 410-285706/12		BFS							

Batch Notes	
Mobil Phase ID	3311008082022B, 3311008082233C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MFS_IDA

Mono-functional Surfactants (MFS) by
LC/MS/MS using Isotope Dilution

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
MW-124S	410-90799-1	110
MW-124D	410-90799-2	103
MW-111S	410-90799-3	106
MW-111S DL	410-90799-3 DL	107
MW-111D	410-90799-4	121
MW-111D DL	410-90799-4 DL	108
MW-110S	410-90799-5	113
MW-110D	410-90799-6	106
MW-36D	410-90799-7	93
MW-42D	410-90799-8	93
EB_071122	410-90799-9	102
MW-43I	410-90799-10	117
MW-43I DL	410-90799-10 DL	108
MW-43D	410-90799-11	106
MW-19D	410-90799-12	122
MW-19D DL	410-90799-12 DL	92
MW-19I	410-90799-13	202 *5+ cn
MW-19I DL	410-90799-13 DL	90 cn
MW-19I RA	410-90799-13 RA	221 *5+ cn
MW-19S	410-90799-14	112
MW-19S DL	410-90799-14 DL	93
MW-38D	410-90799-15	137
MW-33S	410-90799-16	98
MW-41D	410-90799-17	120
	MB 410-279532/1-A	85
	MB 410-279534/1-A	101
	LCS 410-279532/2-A	89
	LCS 410-279534/2-A	105

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II MFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG5MFS-03.d

Lab ID: LCS 410-279532/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	41.7	108	70-130	
MFS_M3	39.4	42.4	108	70-130	
MFS_N3	40.1	40.3	101	70-130	
MFS_M4	39.3	42.0	107	70-130	
MFS_N4	39.8	41.7	105	70-130	
MFS_N5	40.4	41.7	103	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG5MFS-25.d

Lab ID: LCS 410-279534/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	41.3	107	70-130	
MFS_M3	39.4	41.0	104	70-130	
MFS_N3	40.1	40.5	101	70-130	
MFS_M4	39.3	43.0	110	70-130	
MFS_N4	39.8	41.7	105	70-130	
MFS_N5	40.4	43.8	108	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Lab File ID: 22AUG5MFS-02.d

Lab Sample ID: MB 410-279532/1-A

Matrix: Water

Date Extracted: 07/26/2022 09:35

Instrument ID: 30733

Date Analyzed: 08/05/2022 12:31

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-279532/2-A	22AUG5MFS-03.d	08/05/2022 12:44
MW-43I	410-90799-10	22AUG5MFS-08.d	08/05/2022 13:47
MW-43D	410-90799-11	22AUG5MFS-09.d	08/05/2022 13:59
MW-19I	410-90799-13	22AUG5MFS-11.d	08/05/2022 14:24
MW-19S	410-90799-14	22AUG5MFS-12.d	08/05/2022 14:37
MW-38D	410-90799-15	22AUG5MFS-13.d	08/05/2022 14:50
MW-33S	410-90799-16	22AUG5MFS-14.d	08/05/2022 15:02
MW-41D	410-90799-17	22AUG5MFS-15.d	08/05/2022 15:15
MW-43I DL	410-90799-10 DL	22AUG08MFS-04.d	08/08/2022 19:08
MW-19D	410-90799-12	22AUG08MFS-05.d	08/08/2022 19:21
MW-19D DL	410-90799-12 DL	22AUG08MFS-06.d	08/08/2022 19:34
MW-19I DL	410-90799-13 DL	22AUG08MFS-07.d	08/08/2022 19:46
MW-19S DL	410-90799-14 DL	22AUG08MFS-08.d	08/08/2022 19:59
MW-19I RA	410-90799-13 RA	22AUG09MFS-02.d	08/10/2022 01:22

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-90799-1

SDG No.:

Lab File ID: 22AUG5MFS-24.d

Lab Sample ID: MB 410-279534/1-A

Matrix: Water

Date Extracted: 07/26/2022 09:37

Instrument ID: 30733

Date Analyzed: 08/05/2022 17:08

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-279534/2-A	22AUG5MFS-2 5.d	08/05/2022 17:21
MW-124S	410-90799-1	22AUG5MFS-4 0.d	08/05/2022 20:31
MW-124D	410-90799-2	22AUG5MFS-4 1.d	08/05/2022 20:44
MW-111S	410-90799-3	22AUG5MFS-4 2.d	08/05/2022 20:56
MW-111D	410-90799-4	22AUG5MFS-4 3.d	08/05/2022 21:09
MW-110S	410-90799-5	22AUG5MFS-4 4.d	08/05/2022 21:21
MW-110D	410-90799-6	22AUG5MFS-4 5.d	08/05/2022 21:34
MW-36D	410-90799-7	22AUG5MFS-4 6.d	08/05/2022 21:46
MW-42D	410-90799-8	22AUG5MFS-4 7.d	08/05/2022 21:59
EB_071122	410-90799-9	22AUG5MFS-4 8.d	08/05/2022 22:12
MW-111S DL	410-90799-3 DL	22AUG10MFS- 03.d	08/11/2022 01:43
MW-111D DL	410-90799-4 DL	22AUG10MFS- 04.d	08/11/2022 01:55

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90799-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2022 10:08
 Calibration ID: 41512

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3261205	5.00				
UPPER LIMIT		4891808	5.40				
LOWER LIMIT		1630603	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-283151/8		3128259	5.00				
ICV 410-283151/9		3414636	4.99				
CCVL 410-283250/1		3295947	5.01				
MB 410-279532/1-A		3731777	5.01				
LCS 410-279532/2-A		3757354	5.01				
CCV 410-283250/7		3294826	5.00				
410-90799-10	MW-43I	2638543	5.01				
410-90799-11	MW-43D	2753625	5.00				
410-90799-13	MW-19I	1436018*3	5.00				
410-90799-14	MW-19S	2634797	5.00				
410-90799-15	MW-38D	2319771	5.01				
410-90799-16	MW-33S	3205218	5.01				
410-90799-17	MW-41D	2603490	5.00				
CCV 410-283250/16		3064822	5.00				
CCVL 410-283250/23		3324937	5.00				
MB 410-279534/1-A		3276548	5.00				
LCS 410-279534/2-A		3108926	5.00				
CCV 410-283250/29		3032129	5.00				
CCV 410-283250/39		3128628	5.01				
410-90799-1	MW-124S	2404716	5.01				
410-90799-2	MW-124D	2803076	5.01				
410-90799-3	MW-111S	2902635	5.01				
410-90799-4	MW-111D	2412087	5.02				
410-90799-5	MW-110S	2356795	5.01				
410-90799-6	MW-110D	2352657	5.01				
410-90799-7	MW-36D	1959146	5.01				
410-90799-8	MW-42D	2455426	5.02				
410-90799-9	EB_071122	3291332	5.02				
CCVL 410-283250/50		3175067	5.02				
CCVL 410-283896/1		3417511	4.98				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Calibration Start Date: 08/05/2022 08:53

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2022 10:08

Calibration ID: 41512

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3261205	5.00				
UPPER LIMIT		4891808	5.40				
LOWER LIMIT		1630603	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-90799-10 DL	MW-43I DL	3116752	4.99				
410-90799-12	MW-19D	2384517	4.99				
410-90799-12 DL	MW-19D DL	3237153	4.99				
410-90799-13 DL	MW-19I DL	2900094	4.99				
410-90799-14 DL	MW-19S DL	3345636	4.99				
CCV 410-283896/11		3254295	4.99				
CCVL 410-284258/1		3477860	5.00				
410-90799-13 RA	MW-19I RA	1493844*3	5.00				
CCV 410-284258/4		3210888	4.98				
CCVL 410-284700/1		3416516	5.00				
410-90799-3 DL	MW-111S DL	3057555	5.00				
410-90799-4 DL	MW-111D DL	2843601	5.00				
CCV 410-284700/5		3003078	5.00				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-124S Lab Sample ID: 410-90799-1

Matrix: Water Lab File ID: 22AUG5MFS-40.d

Analysis Method: MFS Date Collected: 07/11/2022 10:20

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 317.5(mL) Date Analyzed: 08/05/2022 20:31

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	25		0.79	0.16
STL02874	MFS_M3	ND		0.79	0.16
STL02875	MFS_N3	ND		0.79	0.16
STL02876	MFS_M4	ND		0.79	0.39
STL02877	MFS_N4	ND		1.6	0.79
STL02888	MFS_N5	ND		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	110		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-40.d
 Lims ID: 410-90799-A-1-A
 Client ID: MW-124S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 20:31:25 ALS Bottle#: 43 Worklist Smp#: 40
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-040
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.408	4.400	0.008	0.879	532066	5.48	110	2745
* 2 13C2 PFOA	415.00 > 370.00	5.014	5.011	0.003		2404716	5.00		3165
3 MFS_N2	461.00 > 367.00	5.244	5.252	-0.008	1.190	2231298	7.82		1394
4 MFS_M3	577.00 > 483.00	5.837	5.858	-0.021	1.324	19047	0.0106		65.5
5 MFS_N3	627.00 > 533.00	6.042	6.051	-0.009	1.371	2502	-0.0298		21.9

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-40.d

Injection Date: 05-Aug-2022 20:31:25

Instrument ID: 30733

Lims ID: 410-90799-A-1-A

Lab Sample ID: 410-90799-1

Client ID: MW-124S

Operator ID: US19_USR_INS20260

ALS Bottle#: 43

Worklist Smp#: 40

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

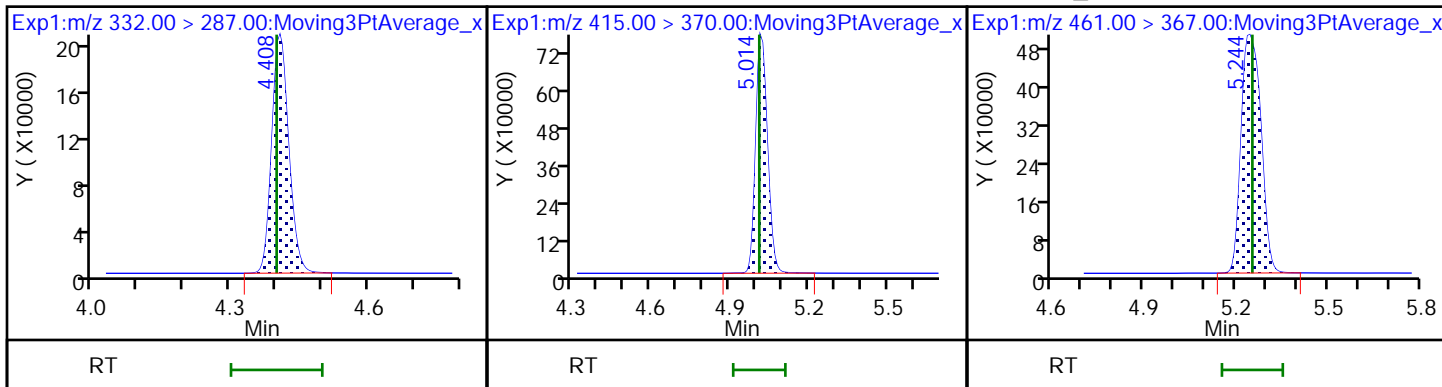
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

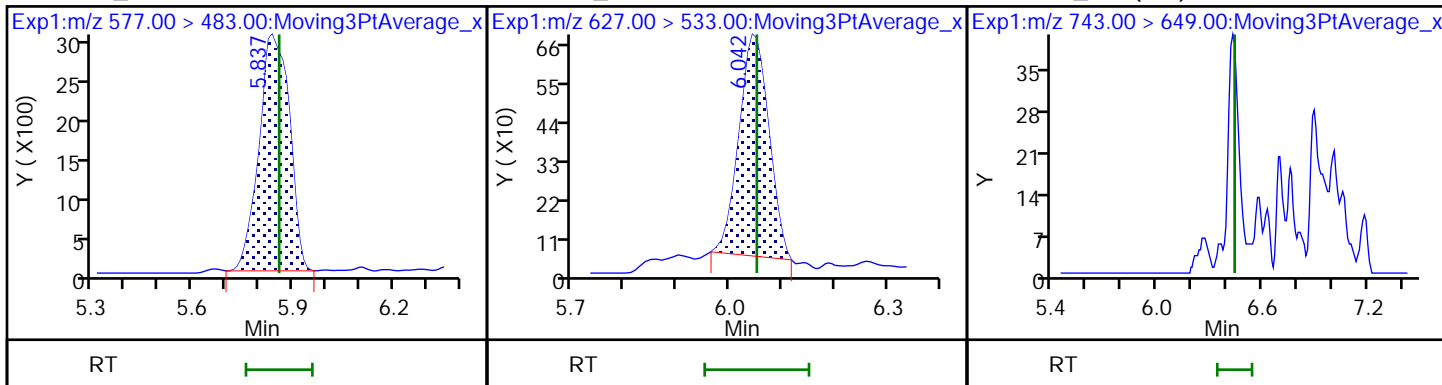
3 MFS_N2



4 MFS_M3

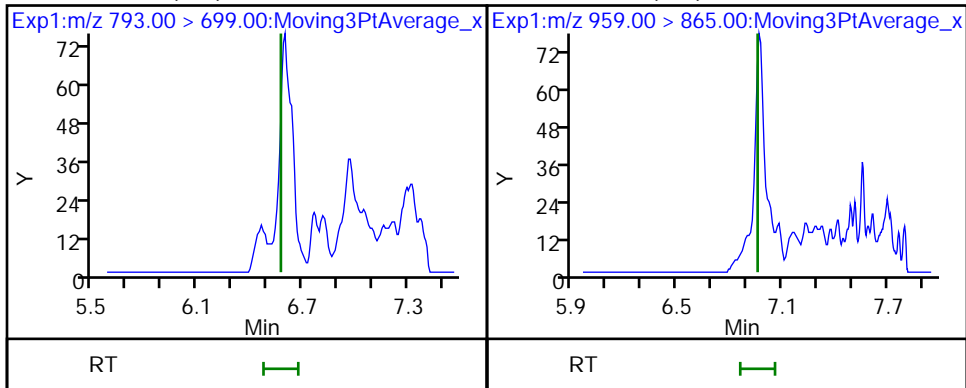
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-124D Lab Sample ID: 410-90799-2

Matrix: Water Lab File ID: 22AUG5MFS-41.d

Analysis Method: MFS Date Collected: 07/11/2022 10:10

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 267.3(mL) Date Analyzed: 08/05/2022 20:44

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1.6		0.94	0.19
STL02874	MFS_M3	ND		0.94	0.19
STL02875	MFS_N3	ND		0.94	0.19
STL02876	MFS_M4	ND		0.94	0.47
STL02877	MFS_N4	ND		1.9	0.94
STL02888	MFS_N5	ND		2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-41.d
 Lims ID: 410-90799-A-2-A
 Client ID: MW-124D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 20:44:00 ALS Bottle#: 44 Worklist Smp#: 41
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-041
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:40
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.878	580613	5.13	103	2582
* 2 13C2 PFOA	415.00 > 370.00	5.011	5.011	0.0		2803076	5.00		3336
3 MFS_N2	461.00 > 367.00	5.245	5.252	-0.007	1.192	157674	0.4300		104
5 MFS_N3	627.00 > 533.00	6.043	6.051	-0.008	1.373	6614	-0.0156		71.0

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-41.d

Injection Date: 05-Aug-2022 20:44:00

Instrument ID: 30733

Lims ID: 410-90799-A-2-A

Lab Sample ID: 410-90799-2

Client ID: MW-124D

Operator ID: US19_USR_INS20260

ALS Bottle#: 44

Worklist Smp#: 41

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

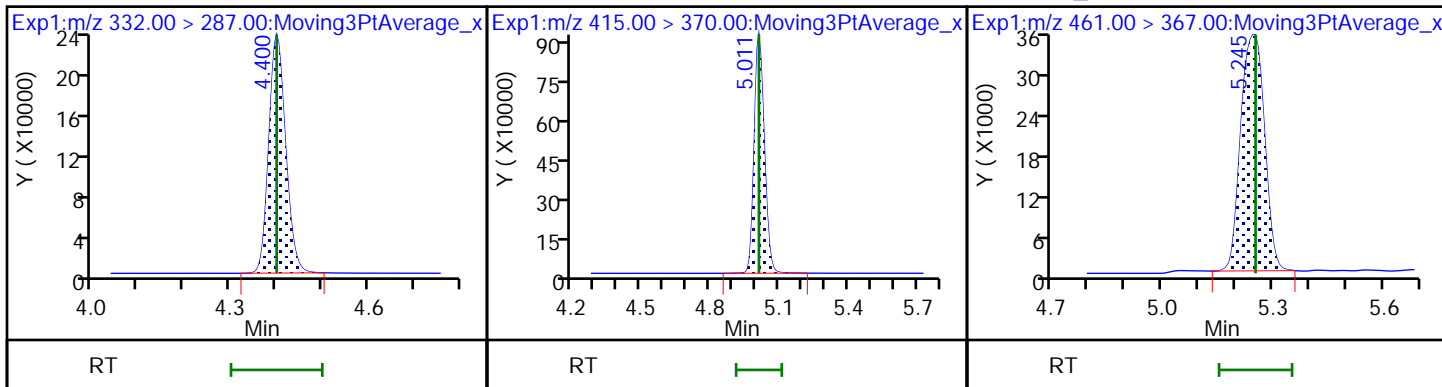
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

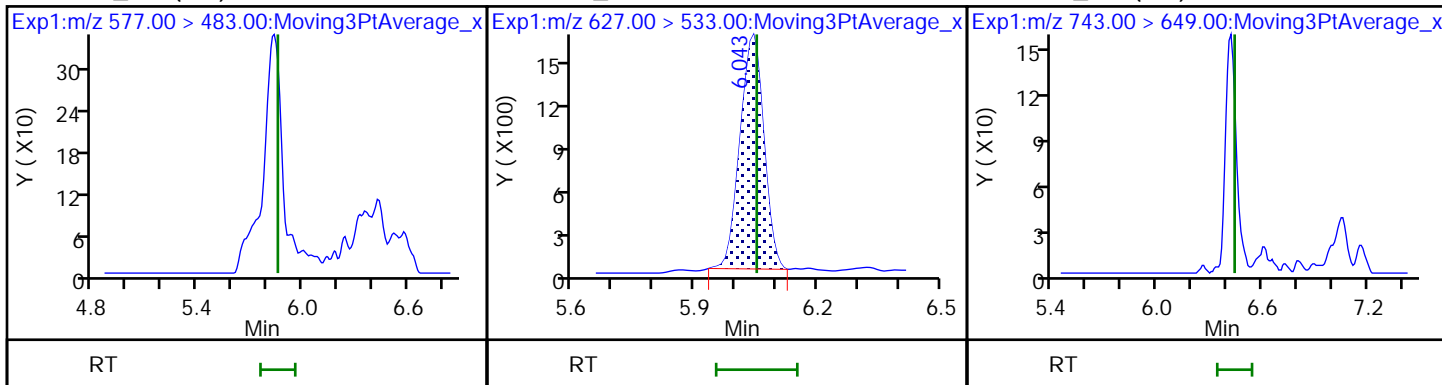
3 MFS_N2



4 MFS_M3 (ND)

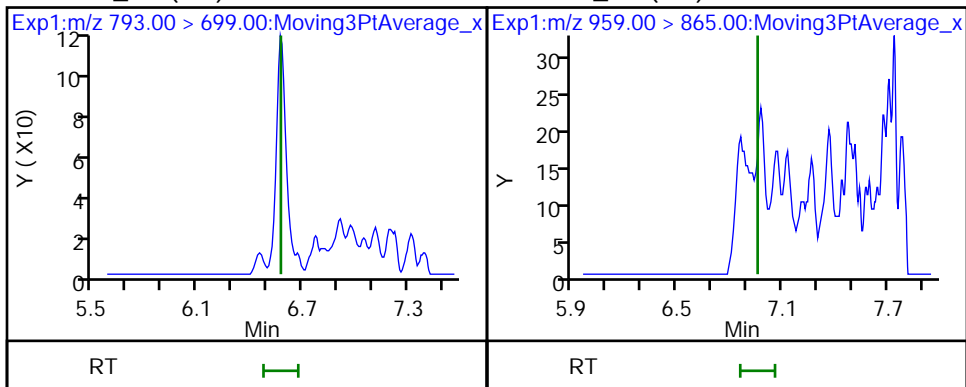
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S Lab Sample ID: 410-90799-3

Matrix: Water Lab File ID: 22AUG5MFS-42.d

Analysis Method: MFS Date Collected: 07/11/2022 13:30

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 274.6(mL) Date Analyzed: 08/05/2022 20:56

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	28		0.91	0.18
STL02875	MFS_N3	11		0.91	0.18
STL02876	MFS_M4	ND		0.91	0.46
STL02877	MFS_N4	ND		1.8	0.91
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-42.d
 Lims ID: 410-90799-A-3-A
 Client ID: MW-111S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 20:56:34 ALS Bottle#: 45 Worklist Smp#: 42
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-3-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-042
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:51
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.401	4.400	0.001	0.878	620813	5.30	106	2688
* 2 13C2 PFOA	415.00 > 370.00	5.012	5.011	0.001		2902635	5.00		3801
3 MFS_N2	461.00 > 367.00	5.253	5.252	0.001	1.193	68389923	207.6		E 14850 E
4 MFS_M3	577.00 > 483.00	5.819	5.858	-0.039	1.322	1950204	7.68		2153
5 MFS_N3	627.00 > 533.00	6.044	6.051	-0.007	1.373	896163	3.04		2727

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-42.d

Injection Date: 05-Aug-2022 20:56:34

Instrument ID: 30733

Lims ID: 410-90799-A-3-A

Lab Sample ID: 410-90799-3

Client ID: MW-111S

Operator ID: US19_USR_INS20260

ALS Bottle#: 45 Worklist Smp#: 42

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

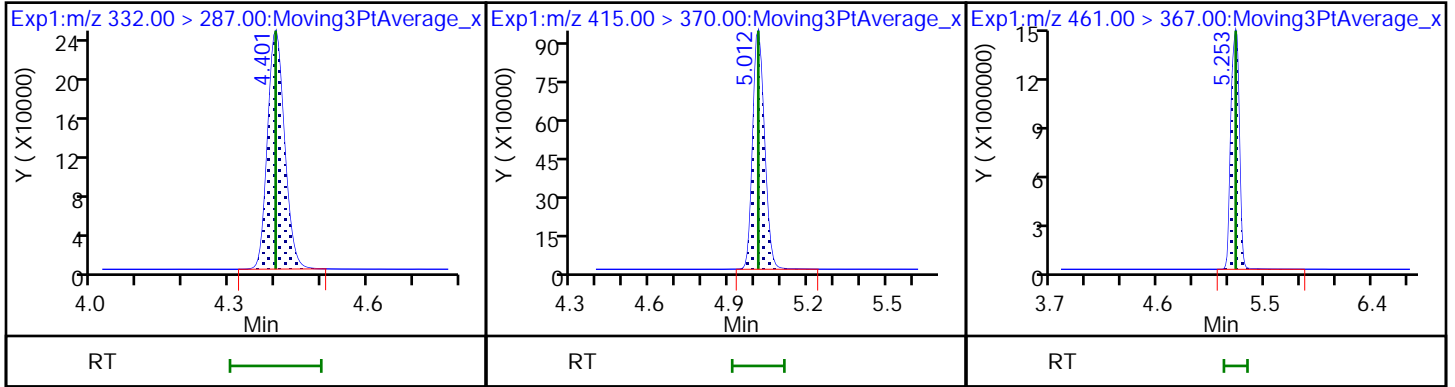
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

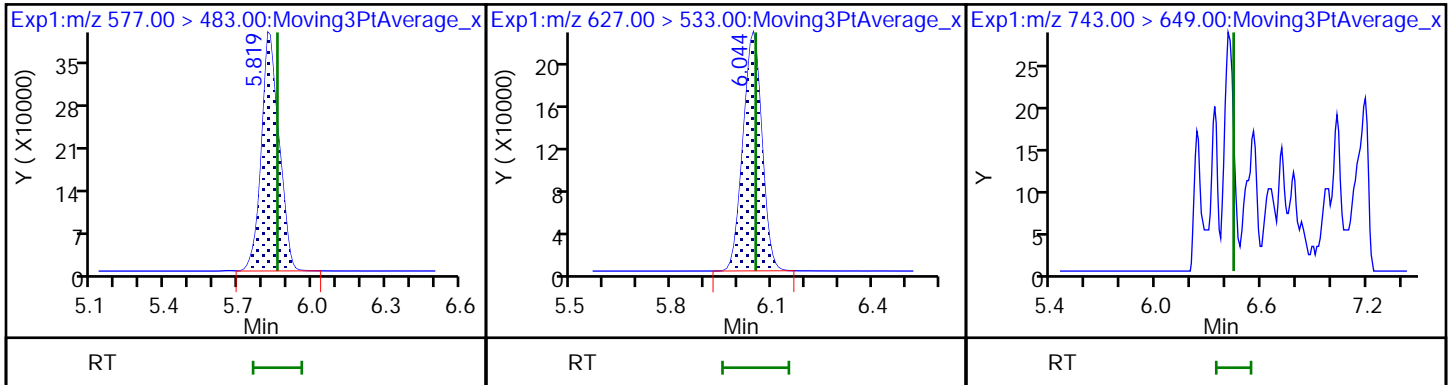
3 MFS_N2



4 MFS_M3

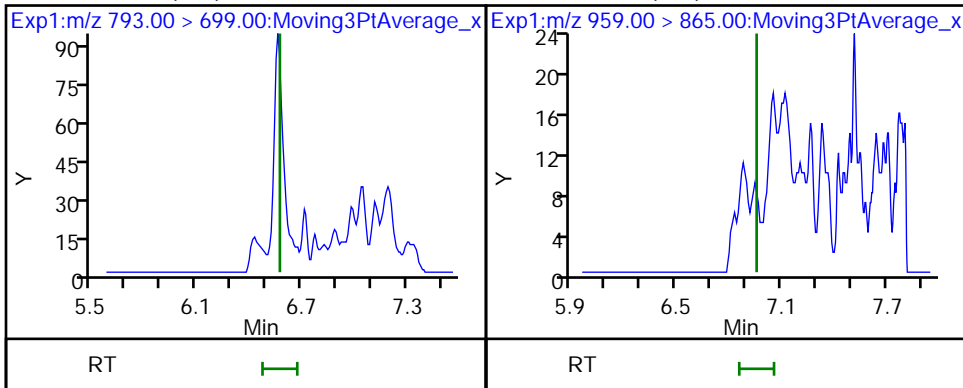
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111S DL Lab Sample ID: 410-90799-3 DL

Matrix: Water Lab File ID: 22AUG10MFS-03.d

Analysis Method: MFS Date Collected: 07/11/2022 13:30

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 274.6(mL) Date Analyzed: 08/11/2022 01:43

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1100		9.1	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-03.d
 Lims ID: 410-90799-A-3-A
 Client ID: MW-111S
 Sample Type: Client
 Inject. Date: 11-Aug-2022 01:43:25 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-A-3-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0063843-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 11-Aug-2022 06:26:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:26:39

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.394	-0.005	0.878	66046	0.5349	107	198
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.999	-0.001		3057555	5.00		350
3 MFS_N2	461.00 > 367.00	5.235	5.243	-0.008	1.193	10891075	31.0		4052
4 MFS_M3	577.00 > 483.00	5.806	5.846	-0.040	1.323	182540	0.6049		140
5 MFS_N3	627.00 > 533.00	6.022	6.033	-0.011	1.372	81107	0.2220		241

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-03.d

Injection Date: 11-Aug-2022 01:43:25

Instrument ID: 30733

Lims ID: 410-90799-A-3-A

Lab Sample ID: 410-90799-3

Client ID: MW-111S

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

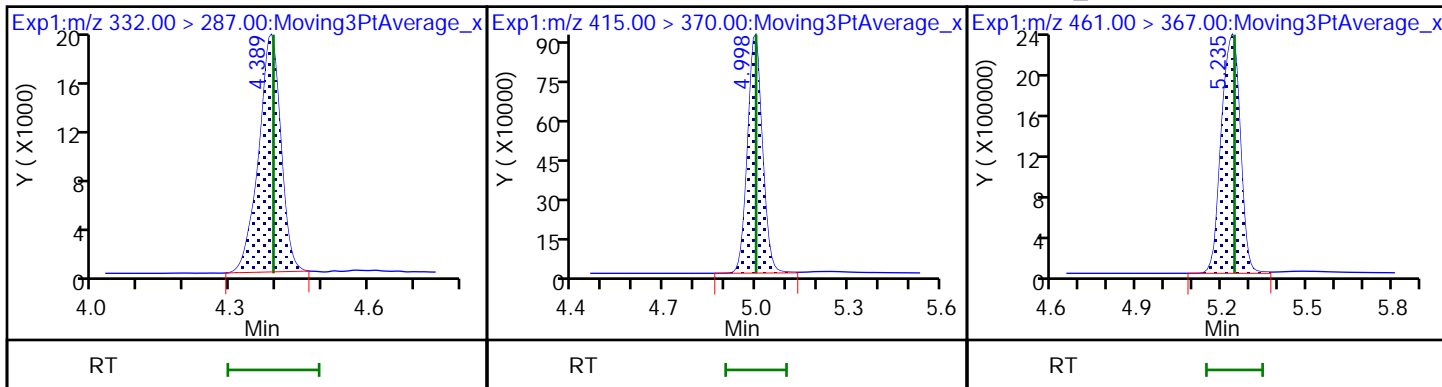
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

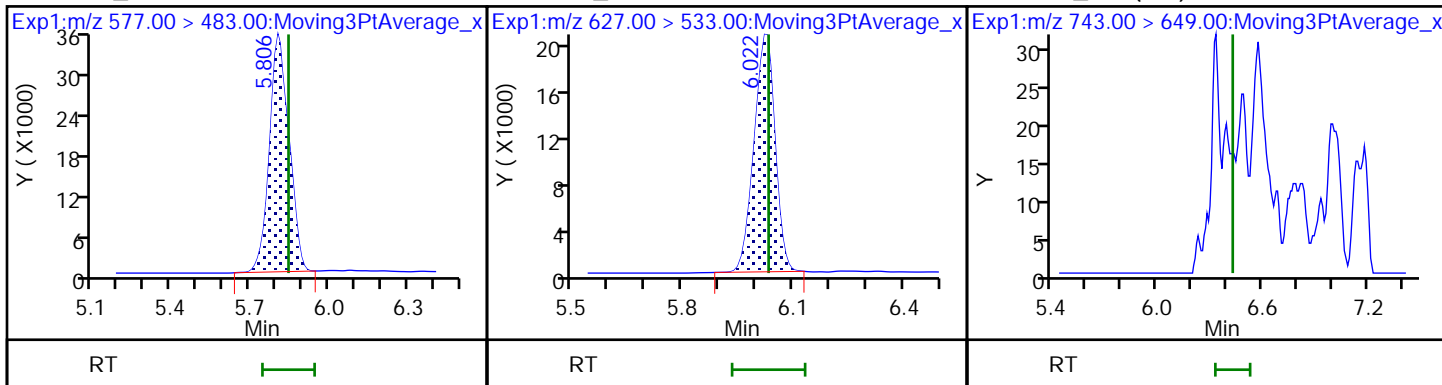
3 MFS_N2



4 MFS_M3

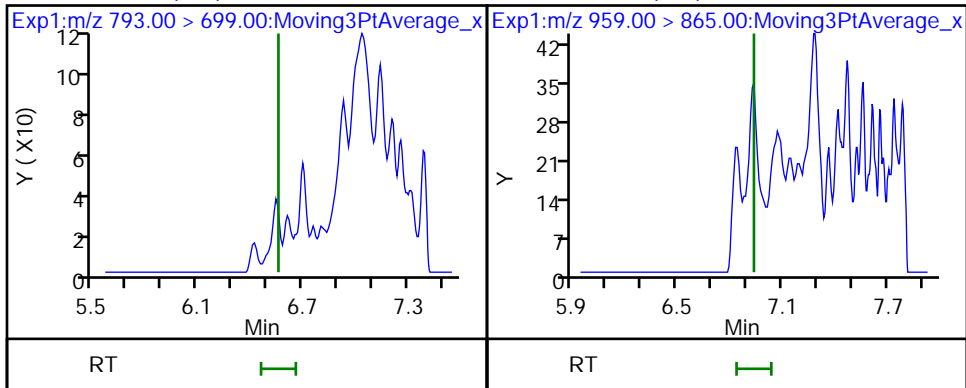
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D Lab Sample ID: 410-90799-4

Matrix: Water Lab File ID: 22AUG5MFS-43.d

Analysis Method: MFS Date Collected: 07/11/2022 14:10

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 286.2 (mL) Date Analyzed: 08/05/2022 21:09

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	1.9		0.87	0.17
STL02875	MFS_N3	ND		0.87	0.17
STL02876	MFS_M4	ND		0.87	0.44
STL02877	MFS_N4	ND		1.7	0.87
STL02888	MFS_N5	ND		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	121		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-43.d
 Lims ID: 410-90799-A-4-A
 Client ID: MW-111D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 21:09:08 ALS Bottle#: 46 Worklist Smp#: 43
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-4-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-043
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:18:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.409	4.400	0.009	0.878	589555	6.05	121	2776
* 2 13C2 PFOA	415.00 > 370.00	5.020	5.011	0.009		2412087	5.00		3127
3 MFS_N2	461.00 > 367.00	5.259	5.252	0.007	1.193	19966166	63.8		E E
4 MFS_M3	577.00 > 483.00	5.827	5.858	-0.031	1.322	147019	0.5382		342
5 MFS_N3	627.00 > 533.00	6.051	6.051	0.0	1.373	11514	0.001792		126

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-43.d

Injection Date: 05-Aug-2022 21:09:08

Instrument ID: 30733

Lims ID: 410-90799-A-4-A

Lab Sample ID: 410-90799-4

Client ID: MW-111D

Operator ID: US19_USR_INS20260

ALS Bottle#: 46

Worklist Smp#: 43

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

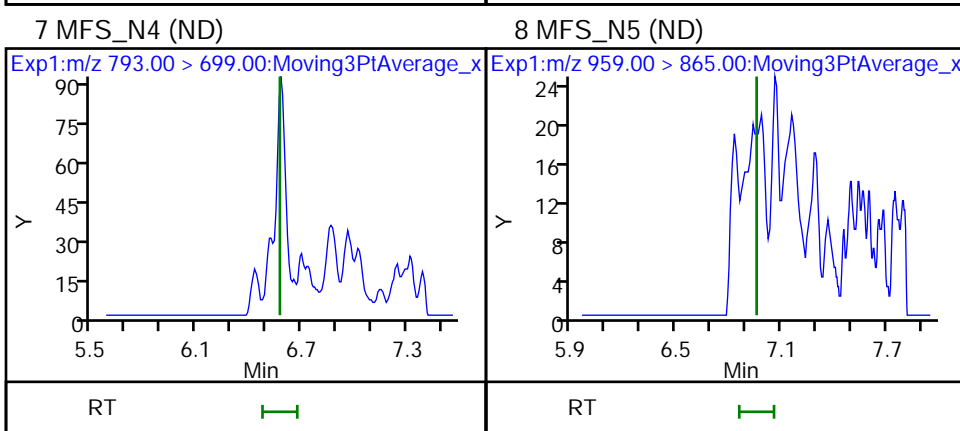
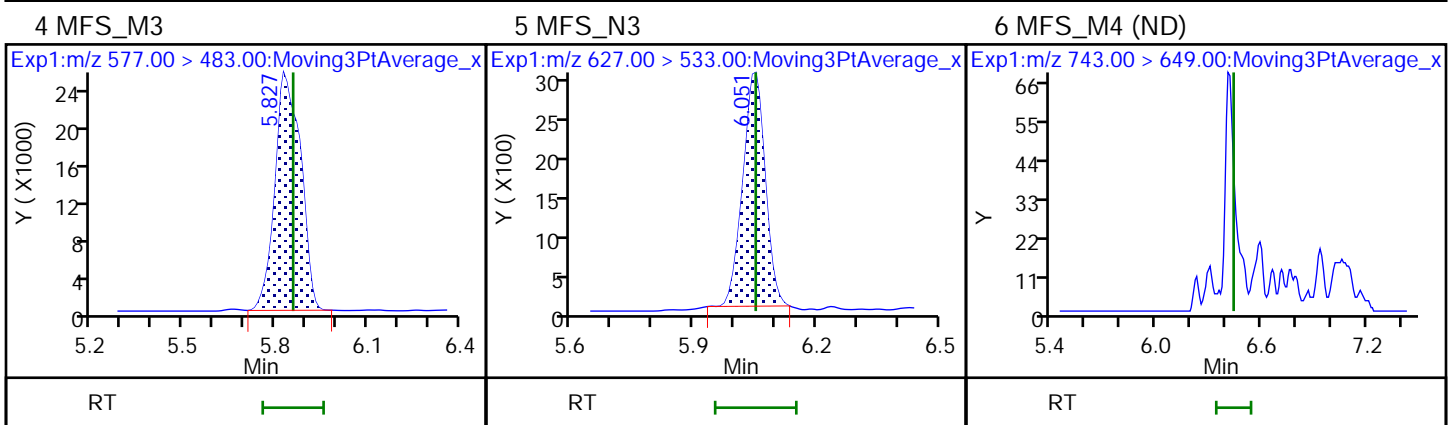
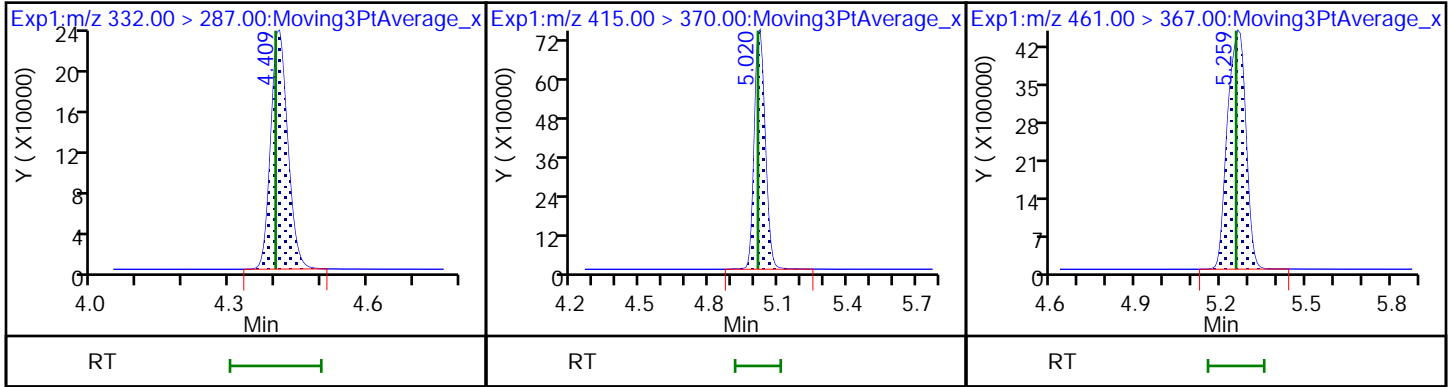
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-111D DL Lab Sample ID: 410-90799-4 DL

Matrix: Water Lab File ID: 22AUG10MFS-04.d

Analysis Method: MFS Date Collected: 07/11/2022 14:10

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 286.2 (mL) Date Analyzed: 08/11/2022 01:55

Con. Extract Vol.: 1 (mL) Dilution Factor: 10

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	240		8.7	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-04.d
 Lims ID: 410-90799-A-4-A
 Client ID: MW-111D
 Sample Type: Client
 Inject. Date: 11-Aug-2022 01:55:59 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-A-4-A 10x
 Misc. Info.: Plate: 10 Rack: 1 410-0063843-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 11-Aug-2022 06:26:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:26:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.388	4.394	-0.006	0.879	62108	0.5408	108	214
* 2 13C2 PFOA	415.00 > 370.00	4.995	4.999	-0.004		2843601	5.00		315
3 MFS_N2	461.00 > 367.00	5.232	5.243	-0.011	1.192	2318105	6.95		2071

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-04.d

Injection Date: 11-Aug-2022 01:55:59

Instrument ID: 30733

Lims ID: 410-90799-A-4-A

Lab Sample ID: 410-90799-4

Client ID: MW-111D

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

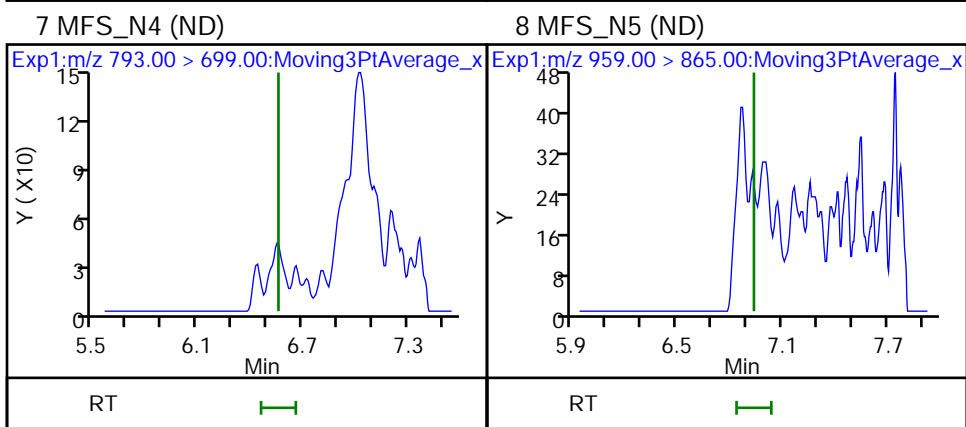
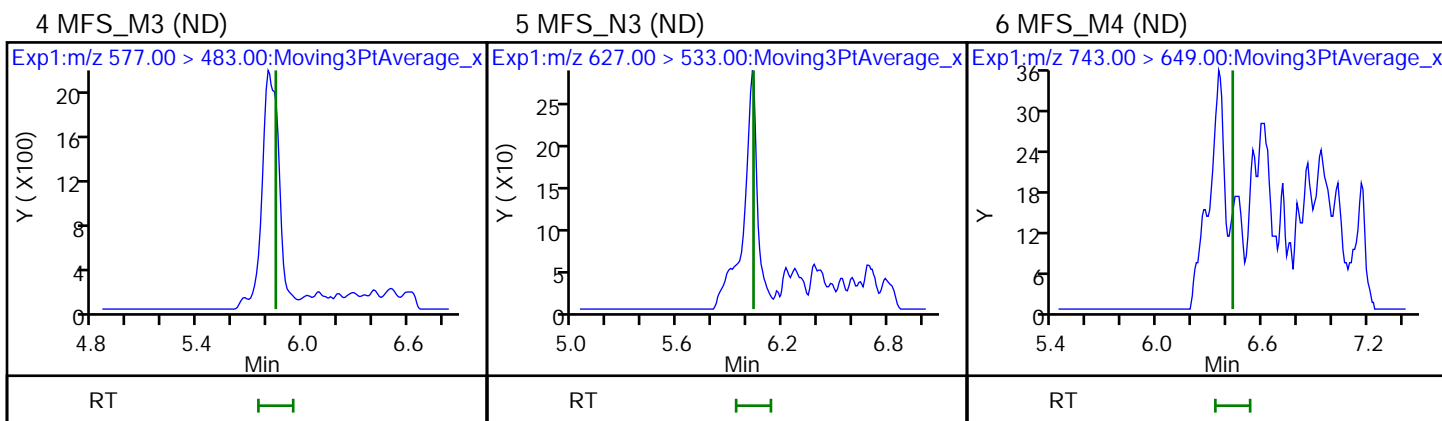
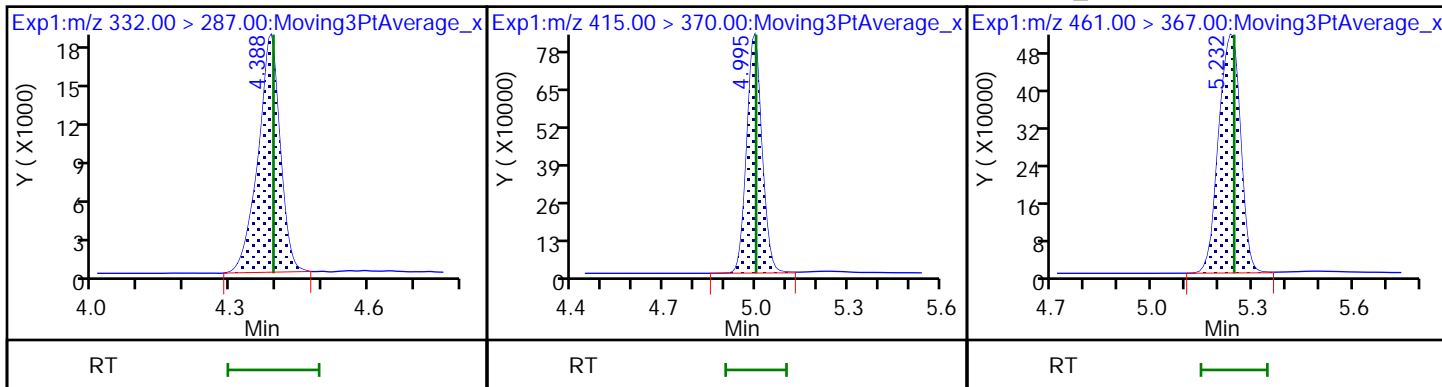
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-110S Lab Sample ID: 410-90799-5

Matrix: Water Lab File ID: 22AUG5MFS-44.d

Analysis Method: MFS Date Collected: 07/11/2022 09:45

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 281.1(mL) Date Analyzed: 08/05/2022 21:21

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	84		0.89	0.18
STL02874	MFS_M3	ND		0.89	0.18
STL02875	MFS_N3	ND		0.89	0.18
STL02876	MFS_M4	ND		0.89	0.44
STL02877	MFS_N4	ND		1.8	0.89
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-44.d
 Lims ID: 410-90799-A-5-A
 Client ID: MW-110S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 21:21:46 ALS Bottle#: 47 Worklist Smp#: 44
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-5-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-044
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:19:17
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.878	535797	5.63	113	2500
* 2 13C2 PFOA	415.00 > 370.00	5.011	5.011	0.0		2356795	5.00		2950
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	6740214	23.6		3072
4 MFS_M3	577.00 > 483.00	5.819	5.858	-0.039	1.322	8265	-0.0397		27.7 M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-44.d

Injection Date: 05-Aug-2022 21:21:46

Instrument ID: 30733

Lims ID: 410-90799-A-5-A

Lab Sample ID: 410-90799-5

Client ID: MW-110S

Operator ID: US19_USR_INS20260

ALS Bottle#: 47

Worklist Smp#: 44

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

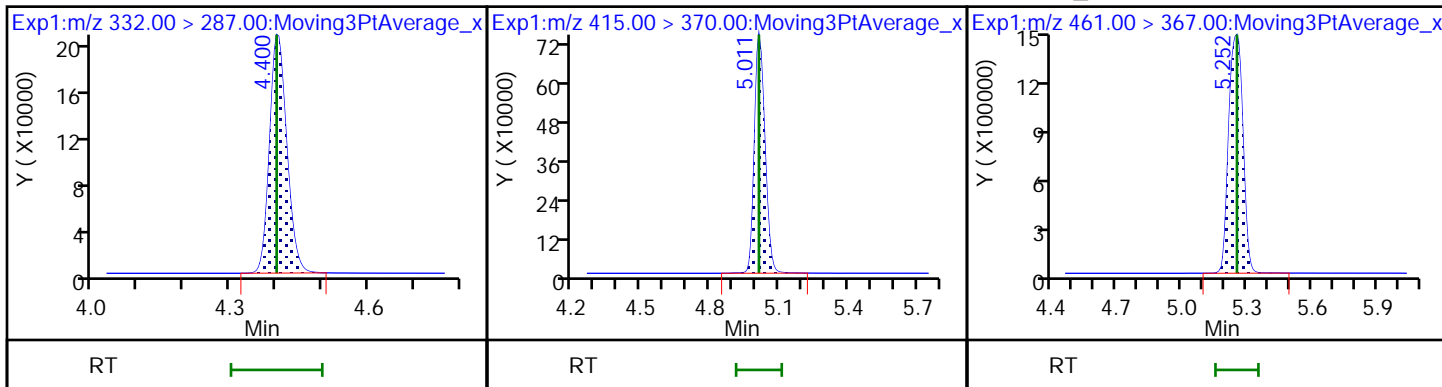
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

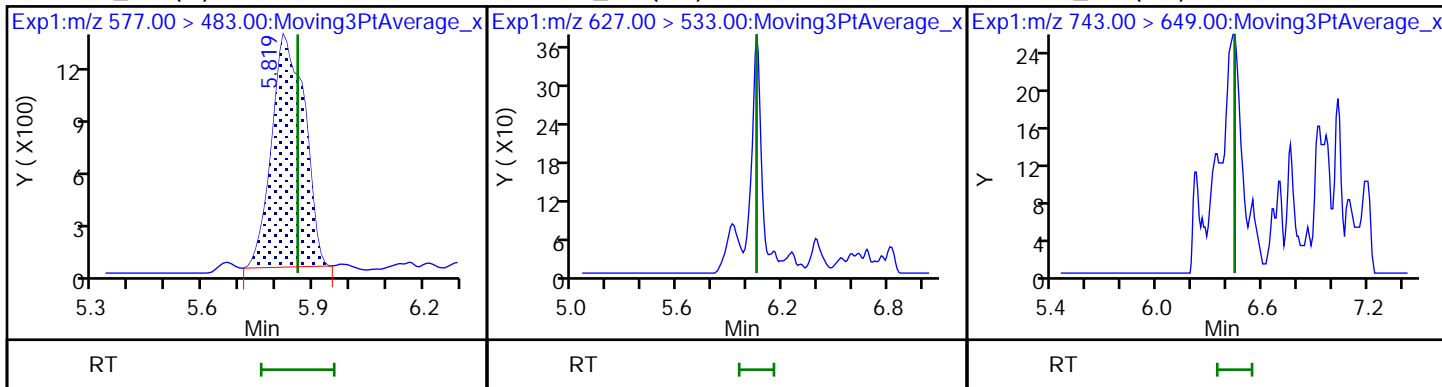
3 MFS_N2



4 MFS_M3 (M)

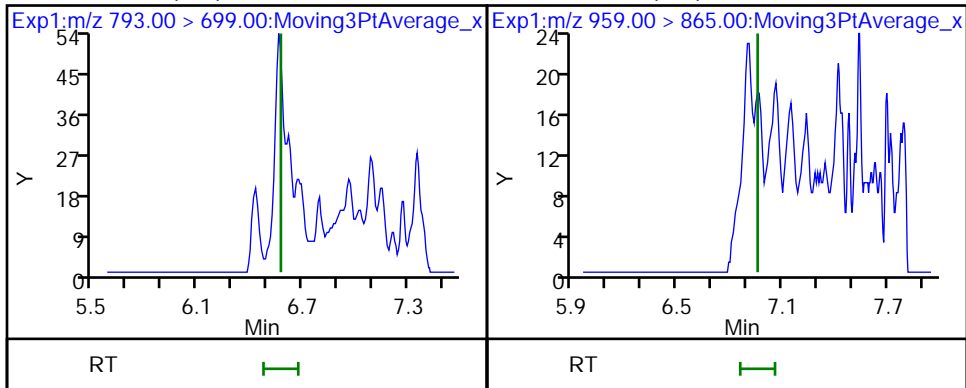
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

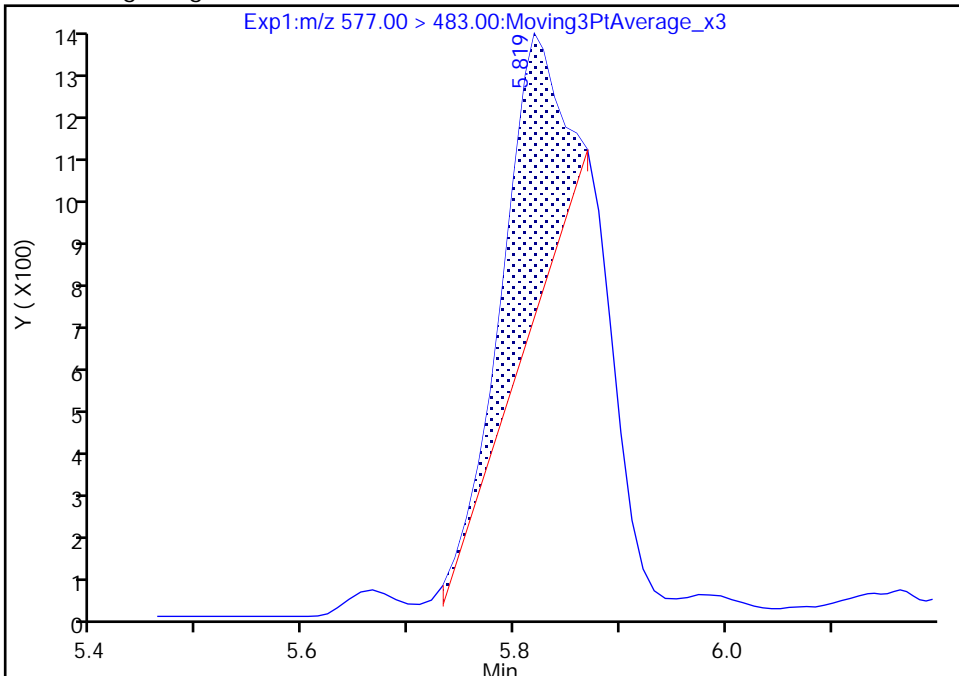
Data File:	\\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-44.d				
Injection Date:	05-Aug-2022 21:21:46	Instrument ID:	30733		
Lims ID:	410-90799-A-5-A	Lab Sample ID:	410-90799-5		
Client ID:	MW-110S				
Operator ID:	US19_USR_INS20260	ALS Bottle#:	47	Worklist Smp#:	44
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Method:	MFS_IDA_30733	Limit Group:	LC - MFS_IDA		
Column:		Detector:	EXP1		

4 MFS_M3, CAS: STL02874

Signal: 1

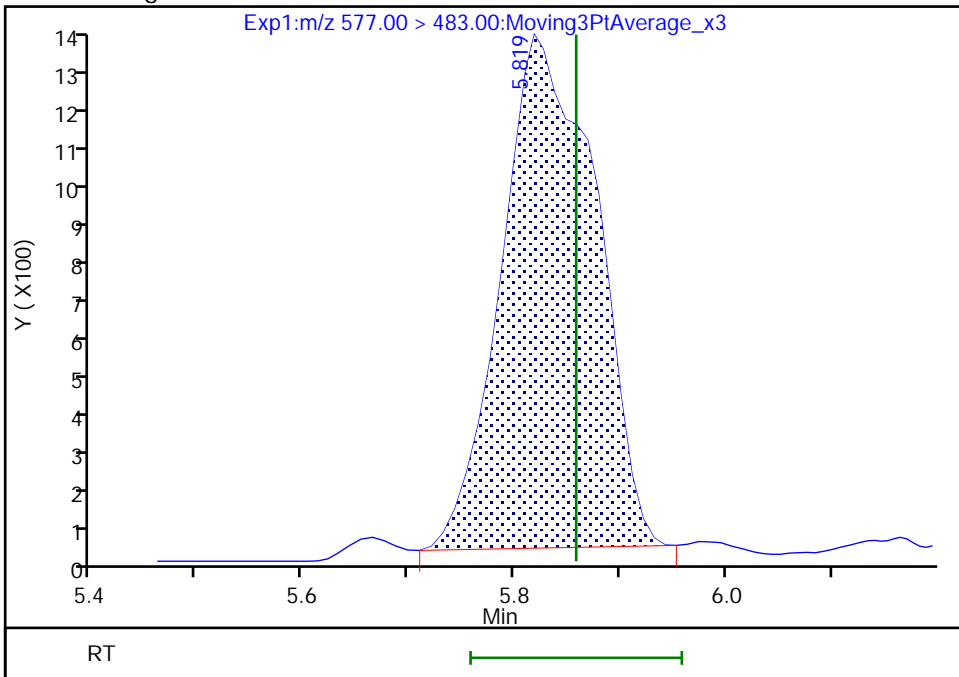
RT: 5.82
Area: 2180
Amount: -0.067800
Amount Units: ng/ml

Processing Integration Results



RT: 5.82
Area: 8265
Amount: -0.039744
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:19:14
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 536 of 685

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-110D Lab Sample ID: 410-90799-6

Matrix: Water Lab File ID: 22AUG5MFS-45.d

Analysis Method: MFS Date Collected: 07/11/2022 10:28

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 286.5(mL) Date Analyzed: 08/05/2022 21:34

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	14		0.87	0.17
STL02874	MFS_M3	ND		0.87	0.17
STL02875	MFS_N3	ND		0.87	0.17
STL02876	MFS_M4	ND		0.87	0.44
STL02877	MFS_N4	ND		1.7	0.87
STL02888	MFS_N5	ND		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-45.d
 Lims ID: 410-90799-A-6-A
 Client ID: MW-110D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 21:34:23 ALS Bottle#: 48 Worklist Smp#: 45
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-6-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-045
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:19:21
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.401	4.400	0.001	0.878	505496	5.32	106	2676
* 2 13C2 PFOA	415.00 > 370.00	5.011	5.011	0.0		2352657	5.00		3298
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	1113412	4.07		575

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-45.d

Injection Date: 05-Aug-2022 21:34:23

Instrument ID: 30733

Lims ID: 410-90799-A-6-A

Lab Sample ID: 410-90799-6

Client ID: MW-110D

Operator ID: US19_USR_INS20260

ALS Bottle#: 48

Worklist Smp#: 45

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

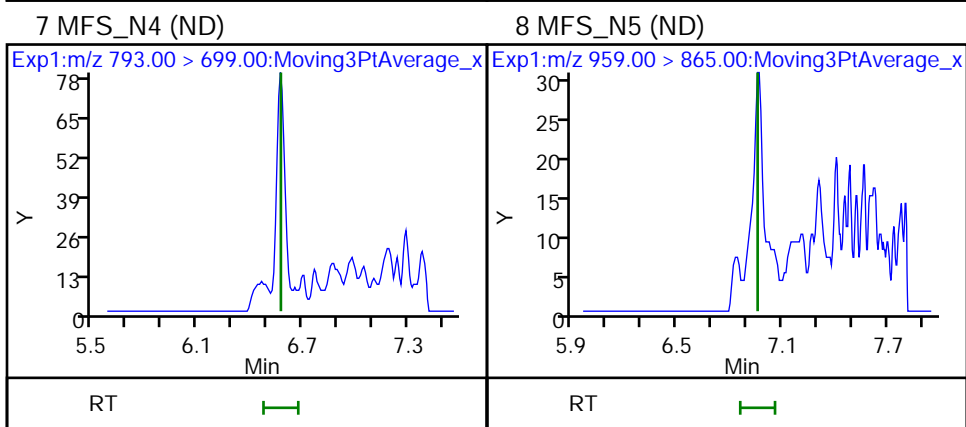
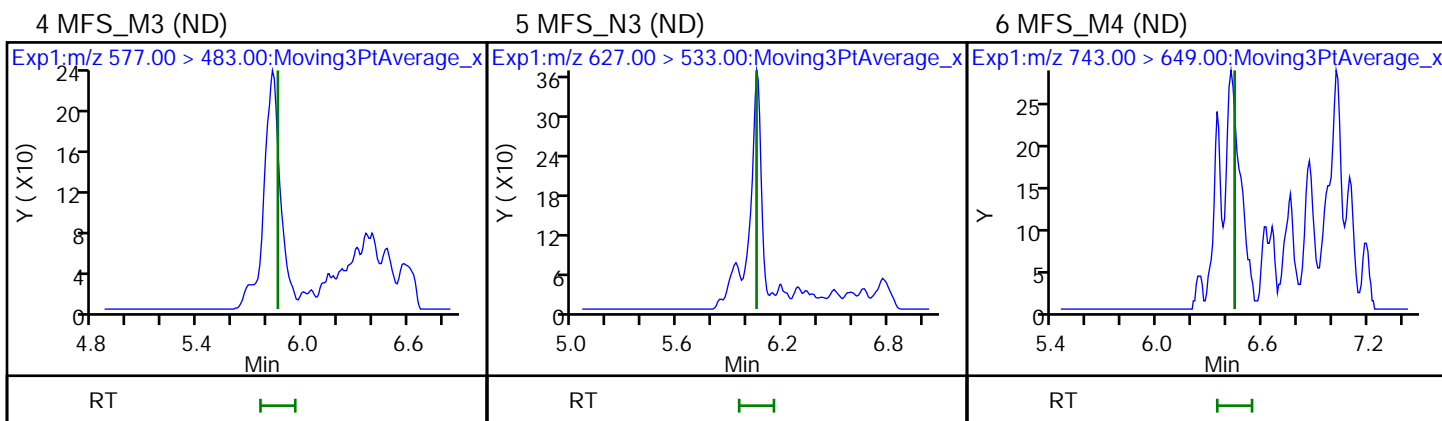
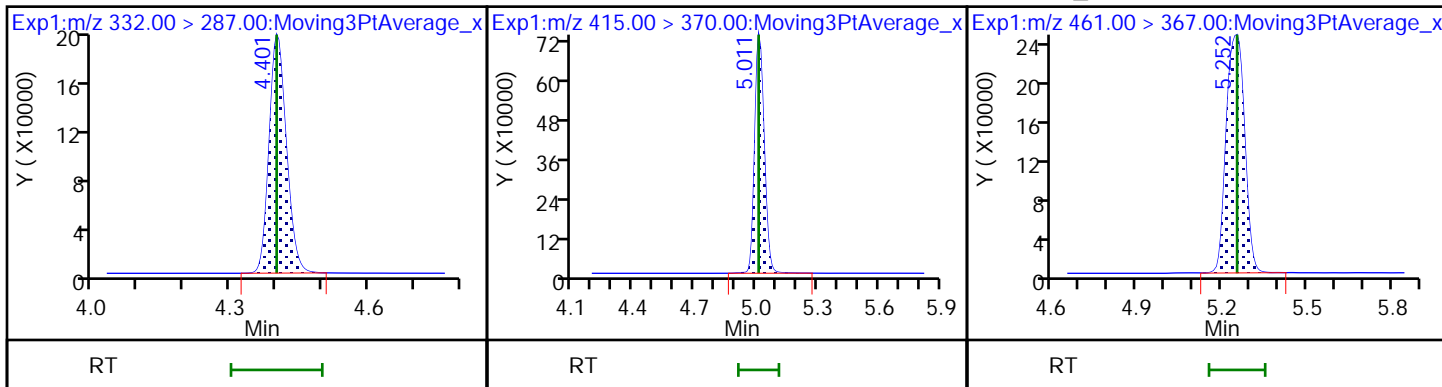
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-36D Lab Sample ID: 410-90799-7

Matrix: Water Lab File ID: 22AUG5MFS-46.d

Analysis Method: MFS Date Collected: 07/11/2022 14:25

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 290.6(mL) Date Analyzed: 08/05/2022 21:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	52		0.86	0.17
STL02874	MFS_M3	10		0.86	0.17
STL02875	MFS_N3	25		0.86	0.17
STL02876	MFS_M4	ND		0.86	0.43
STL02877	MFS_N4	ND		1.7	0.86
STL02888	MFS_N5	ND		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	93		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-46.d
 Lims ID: 410-90799-A-7-A
 Client ID: MW-36D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 21:46:57 ALS Bottle#: 49 Worklist Smp#: 46
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-7-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-046
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:19:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.878	366148	4.63	92.6	2296
* 2 13C2 PFOA	415.00 > 370.00	5.011	5.011	0.0		1959146	5.00		3394
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	2974997	15.2		1657
4 MFS_M3	577.00 > 483.00	5.819	5.858	-0.039	1.322	460302	3.03		1590
5 MFS_N3	627.00 > 533.00	6.035	6.051	-0.016	1.372	1263567	7.32		3944
6 MFS_M4	743.00 > 649.00	6.419	6.440	-0.021	1.459	11114	0.0798		253
7 MFS_N4	793.00 > 699.00	6.573	6.576	-0.003	1.494	9259	0.001379		189

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-46.d

Injection Date: 05-Aug-2022 21:46:57

Instrument ID: 30733

Lims ID: 410-90799-A-7-A

Lab Sample ID: 410-90799-7

Client ID: MW-36D

Operator ID: US19_USR_INS20260

ALS Bottle#: 49

Worklist Smp#: 46

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

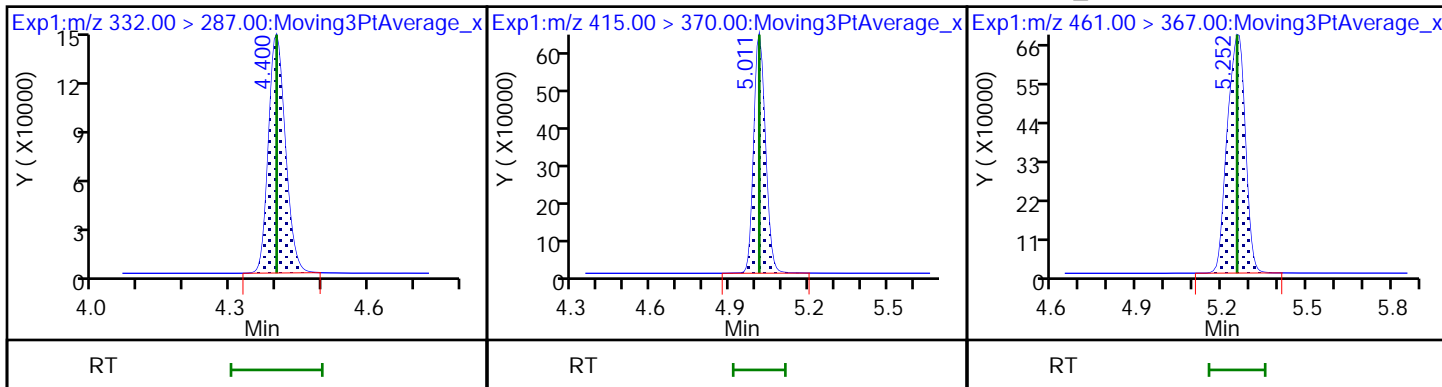
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

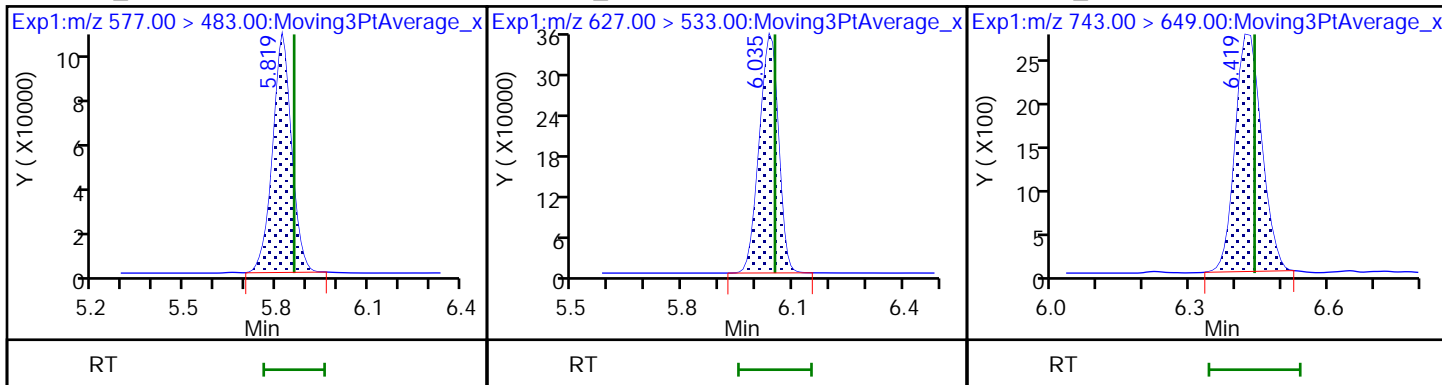
3 MFS_N2



4 MFS_M3

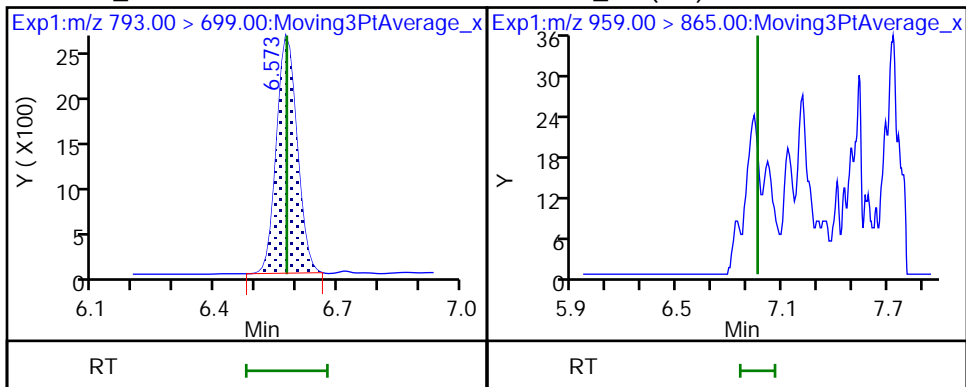
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-42D Lab Sample ID: 410-90799-8

Matrix: Water Lab File ID: 22AUG5MFS-47.d

Analysis Method: MFS Date Collected: 07/11/2022 16:15

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 315.8(mL) Date Analyzed: 08/05/2022 21:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.79	0.16
STL02874	MFS_M3	ND		0.79	0.16
STL02875	MFS_N3	ND		0.79	0.16
STL02876	MFS_M4	ND		0.79	0.40
STL02877	MFS_N4	ND		1.6	0.79
STL02888	MFS_N5	ND		2.4	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	93		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-47.d
 Lims ID: 410-90799-A-8-A
 Client ID: MW-42D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 21:59:32 ALS Bottle#: 50 Worklist Smp#: 47
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-8-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-047
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:19:30
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.408	4.400	0.008	0.878	462264	4.66	93.2	2256
* 2 13C2 PFOA	415.00 > 370.00	5.022	5.011	0.011		2455426	5.00		2934
3 MFS_N2	461.00 > 367.00	5.250	5.252	-0.002	1.191	21317	0.004975		14.0
5 MFS_N3	627.00 > 533.00	6.054	6.051	0.003	1.373	2563	-0.0280		28.9

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-47.d

Injection Date: 05-Aug-2022 21:59:32

Instrument ID: 30733

Lims ID: 410-90799-A-8-A

Lab Sample ID: 410-90799-8

Client ID: MW-42D

Operator ID: US19_USR_INS20260

ALS Bottle#: 50

Worklist Smp#: 47

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

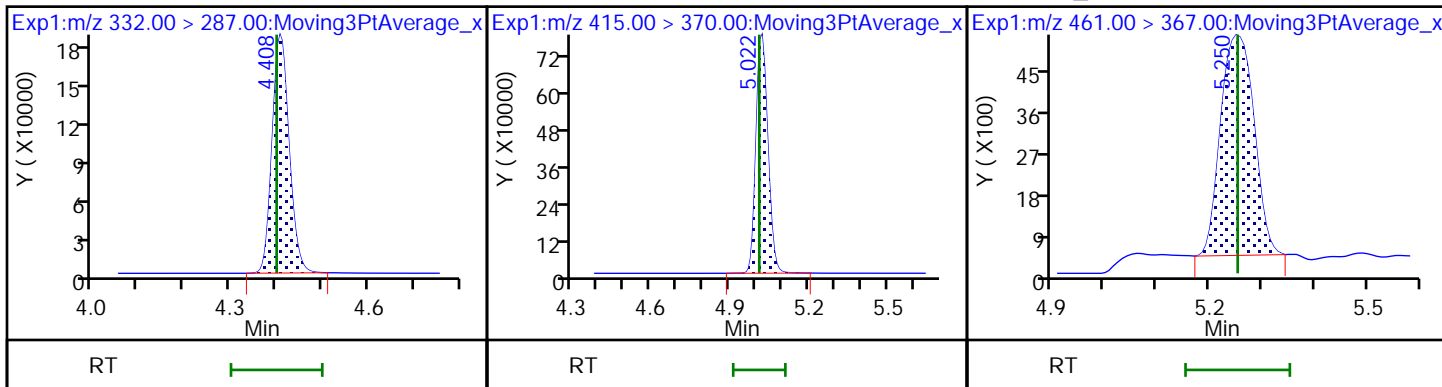
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

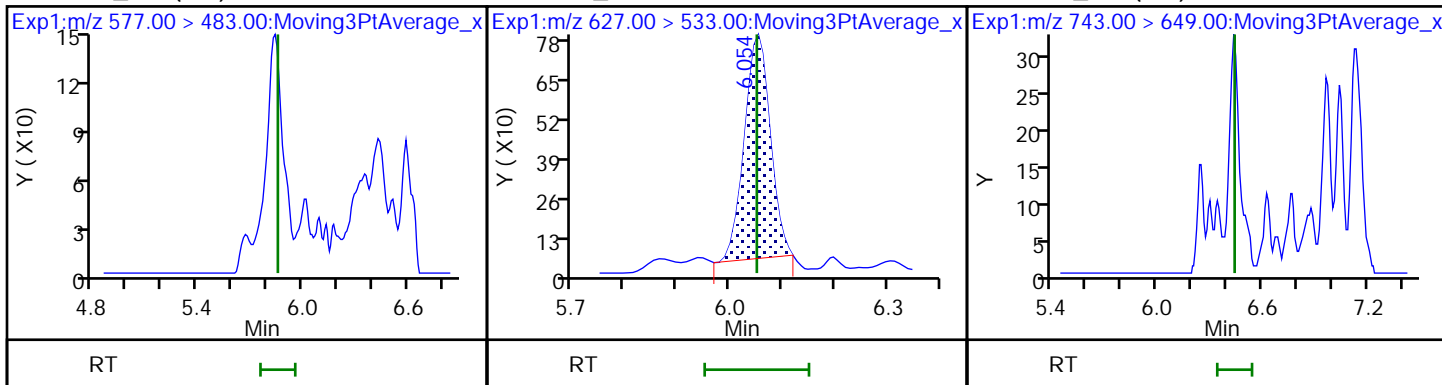
3 MFS_N2



4 MFS_M3 (ND)

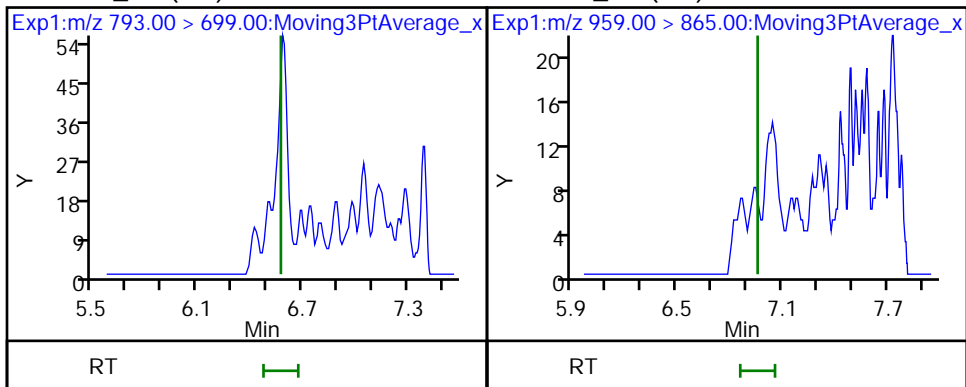
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_071122 Lab Sample ID: 410-90799-9

Matrix: Water Lab File ID: 22AUG5MFS-48.d

Analysis Method: MFS Date Collected: 07/11/2022 13:45

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 251.4(mL) Date Analyzed: 08/05/2022 22:12

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.99	0.20
STL02874	MFS_M3	ND		0.99	0.20
STL02875	MFS_N3	ND		0.99	0.20
STL02876	MFS_M4	ND		0.99	0.50
STL02877	MFS_N4	ND		2.0	0.99
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-48.d
 Lims ID: 410-90799-A-9-A
 Client ID: EB_071122
 Sample Type: Client
 Inject. Date: 05-Aug-2022 22:12:09 ALS Bottle#: 51 Worklist Smp#: 48
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-9-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-048
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:19:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.409	4.400	0.009	0.878	675404	5.08	102	2918
* 2 13C2 PFOA	415.00 > 370.00	5.020	5.011	0.009		3291332	5.00		4155
3 MFS_N2	461.00 > 367.00	5.266	5.252	0.014	1.195	5970	-0.0653		4.0

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-48.d

Injection Date: 05-Aug-2022 22:12:09

Instrument ID: 30733

Lims ID: 410-90799-A-9-A

Lab Sample ID: 410-90799-9

Client ID: EB_071122

Operator ID: US19_USR_INS20260

ALS Bottle#: 51 Worklist Smp#: 48

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

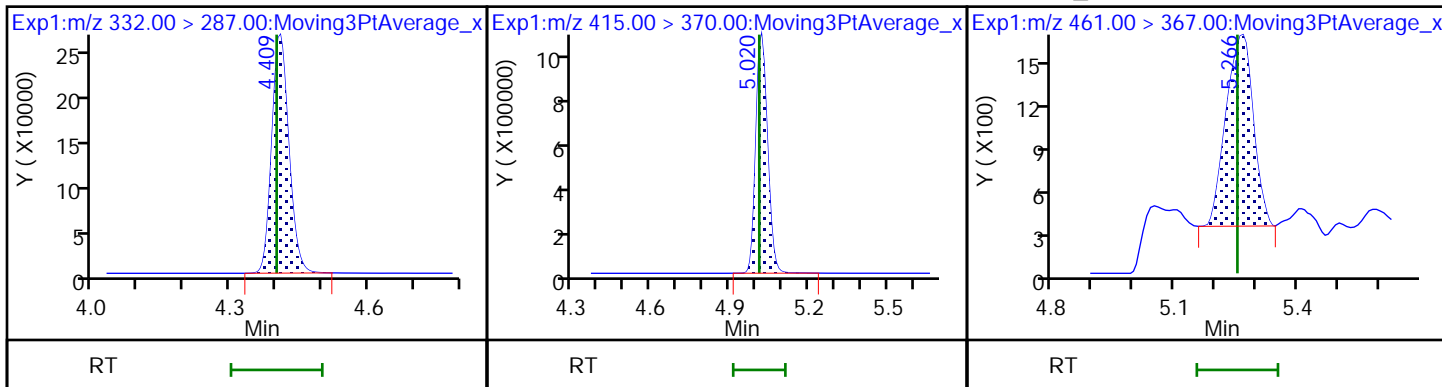
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

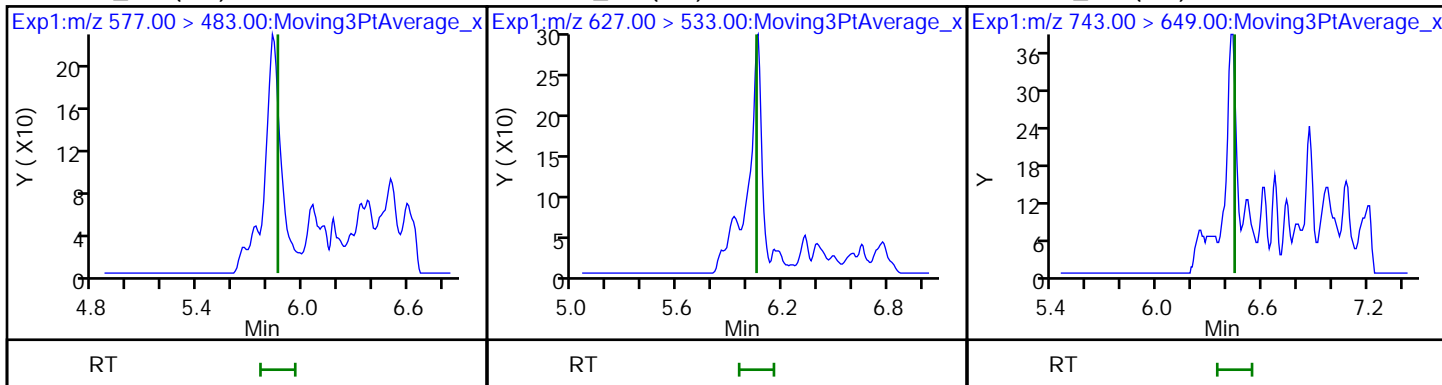
3 MFS_N2



4 MFS_M3 (ND)

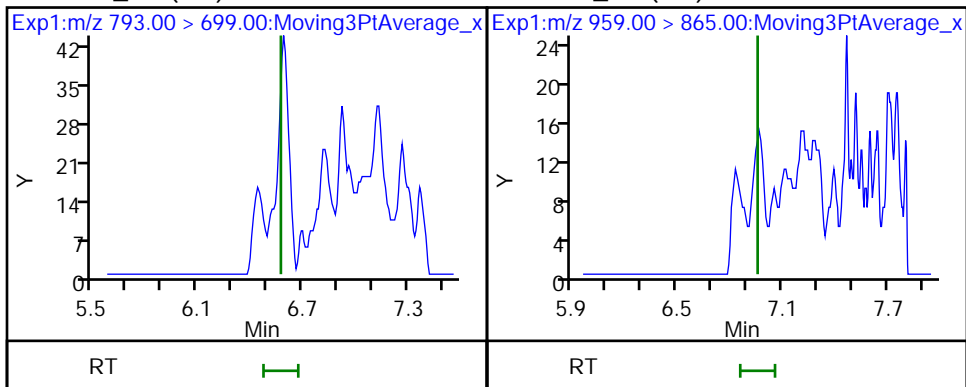
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-43I Lab Sample ID: 410-90799-10

Matrix: Water Lab File ID: 22AUG5MFS-08.d

Analysis Method: MFS Date Collected: 07/12/2022 09:25

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 300.4(mL) Date Analyzed: 08/05/2022 13:47

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	1.3		0.83	0.17
STL02875	MFS_N3	ND		0.83	0.17
STL02876	MFS_M4	ND		0.83	0.42
STL02877	MFS_N4	ND		1.7	0.83
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	117		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-08.d
 Lims ID: 410-90799-A-10-A
 Client ID: MW-43I
 Sample Type: Client
 Inject. Date: 05-Aug-2022 13:47:05 ALS Bottle#: 15 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-10-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:03:59
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.397	4.400	-0.003	0.879	625134	5.87	117	2906
* 2 13C2 PFOA	415.00 > 370.00	5.005	5.007	-0.002		2638543	5.00		3205
3 MFS_N2	461.00 > 367.00	5.253	5.252	0.001	1.195	23678376	71.3		E E
4 MFS_M3	577.00 > 483.00	5.817	5.857	-0.040	1.323	115695	0.3794		391
5 MFS_N3	627.00 > 533.00	6.041	6.042	-0.001	1.374	14284	0.008870		139

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-08.d

Injection Date: 05-Aug-2022 13:47:05

Instrument ID: 30733

Lims ID: 410-90799-A-10-A

Lab Sample ID: 410-90799-10

Client ID: MW-43I

Operator ID: US19_USR_INS20260

ALS Bottle#: 15 Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

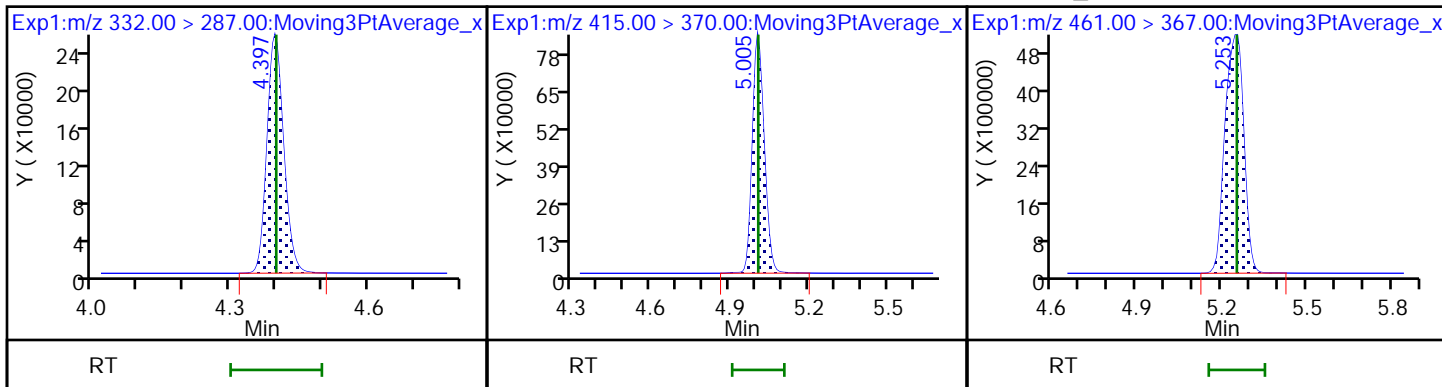
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

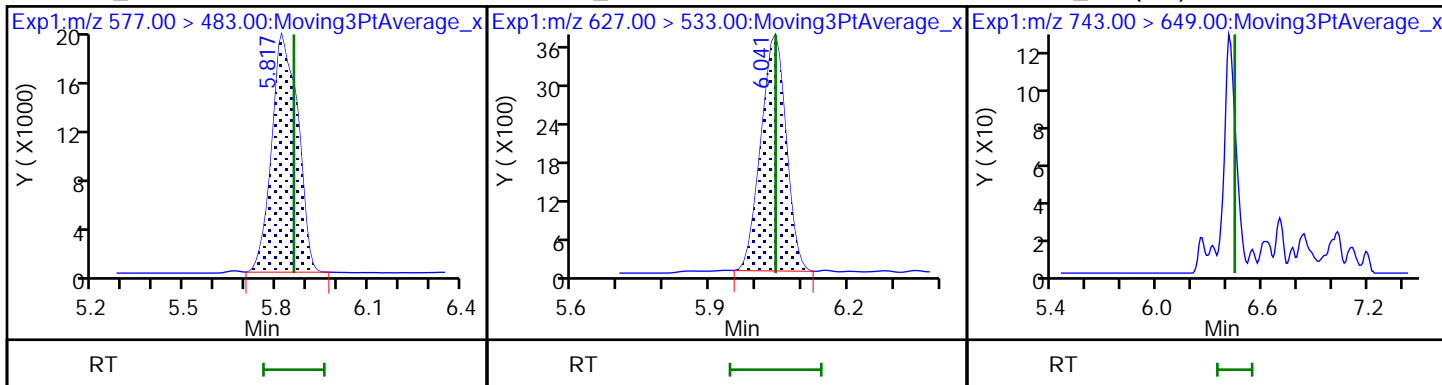
3 MFS_N2



4 MFS_M3

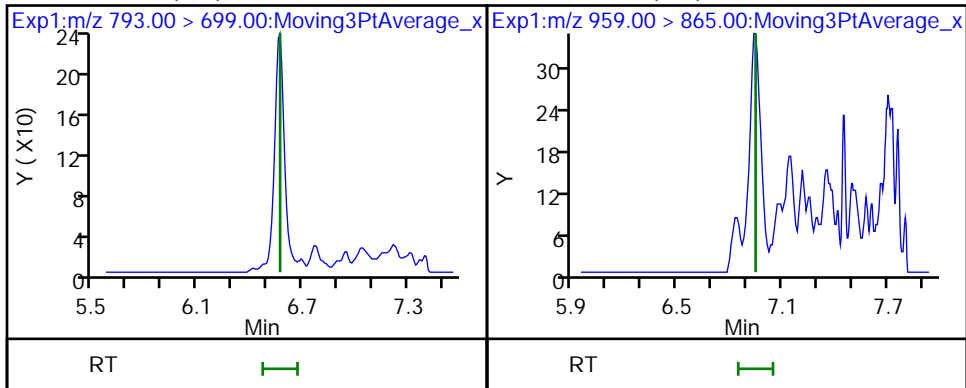
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-43I DL Lab Sample ID: 410-90799-10 DL

Matrix: Water Lab File ID: 22AUG08MFS-04.d

Analysis Method: MFS Date Collected: 07/12/2022 09:25

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 300.4(mL) Date Analyzed: 08/08/2022 19:08

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283896 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	270		8.3	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-04.d
 Lims ID: 410-90799-A-10-A
 Client ID: MW-43I
 Sample Type: Client
 Inject. Date: 08-Aug-2022 19:08:50 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-A-10-A D10
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:39:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.379	0.006	0.880	67769	0.5384	108	203
* 2 13C2 PFOA	415.00 > 370.00	4.985	4.983	0.002		3116752	5.00		321
3 MFS_N2	461.00 > 367.00	5.229	5.232	-0.003	1.192	2980944	8.21		4747

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-04.d

Injection Date: 08-Aug-2022 19:08:50

Instrument ID: 30733

Lims ID: 410-90799-A-10-A

Lab Sample ID: 410-90799-10

Client ID: MW-43I

Operator ID: US19_USR_INS20260

ALS Bottle#: 10 Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

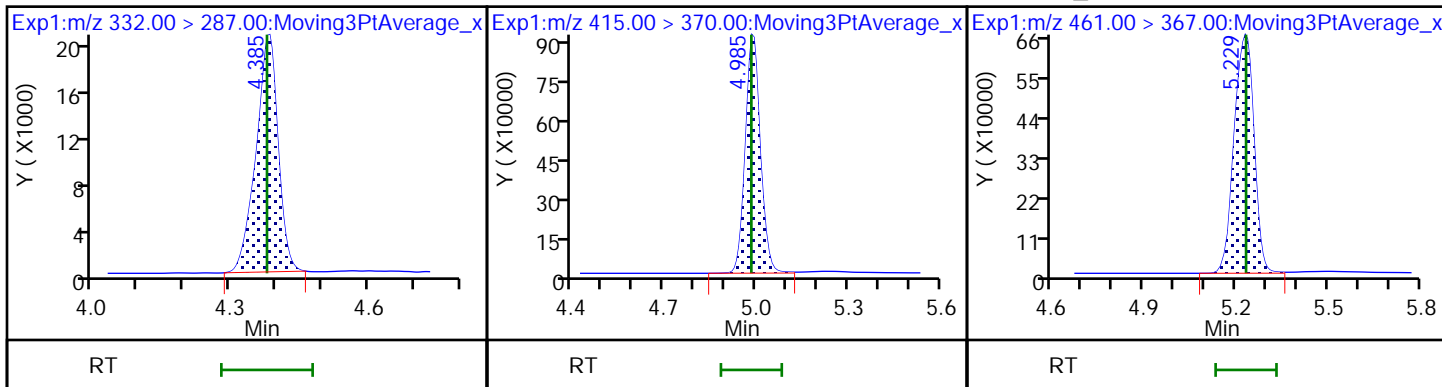
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

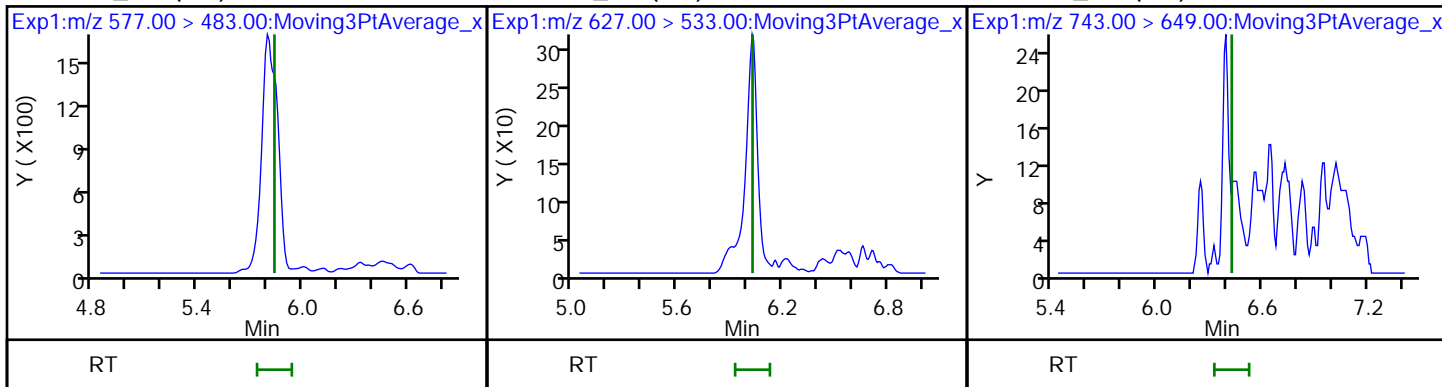
3 MFS_N2



4 MFS_M3 (ND)

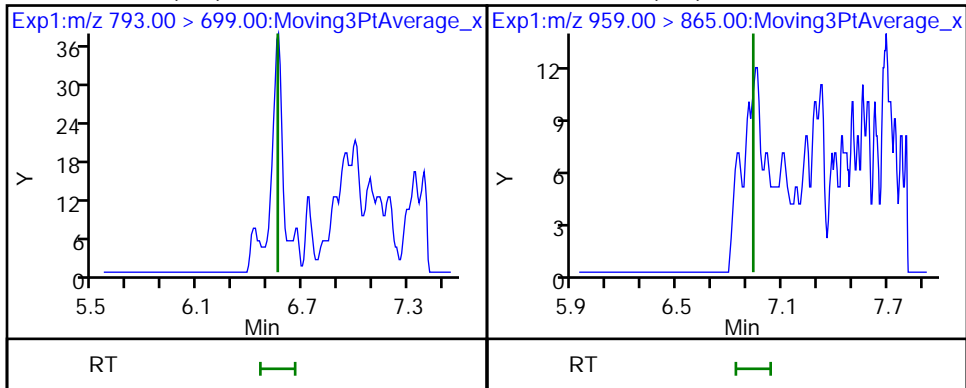
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-43D Lab Sample ID: 410-90799-11

Matrix: Water Lab File ID: 22AUG5MFS-09.d

Analysis Method: MFS Date Collected: 07/12/2022 09:25

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 298.3(mL) Date Analyzed: 08/05/2022 13:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	40		0.84	0.17
STL02874	MFS_M3	ND		0.84	0.17
STL02875	MFS_N3	ND		0.84	0.17
STL02876	MFS_M4	ND		0.84	0.42
STL02877	MFS_N4	ND		1.7	0.84
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-09.d
 Lims ID: 410-90799-A-11-A
 Client ID: MW-43D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 13:59:40 ALS Bottle#: 16 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-11-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:04:02
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.397	4.400	-0.003	0.879	592140	5.32	106	2596
* 2 13C2 PFOA	415.00 > 370.00	5.004	5.007	-0.003		2753625	5.00		3090
3 MFS_N2	461.00 > 367.00	5.253	5.252	0.001	1.195	3771877	11.9		7646
4 MFS_M3	577.00 > 483.00	5.817	5.857	-0.040	1.323	14778	-0.0162		79.9
5 MFS_N3	627.00 > 533.00	6.041	6.042	-0.001	1.374	18946	0.0284		187

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-09.d

Injection Date: 05-Aug-2022 13:59:40

Instrument ID: 30733

Lims ID: 410-90799-A-11-A

Lab Sample ID: 410-90799-11

Client ID: MW-43D

Operator ID: US19_USR_INS20260

ALS Bottle#: 16

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

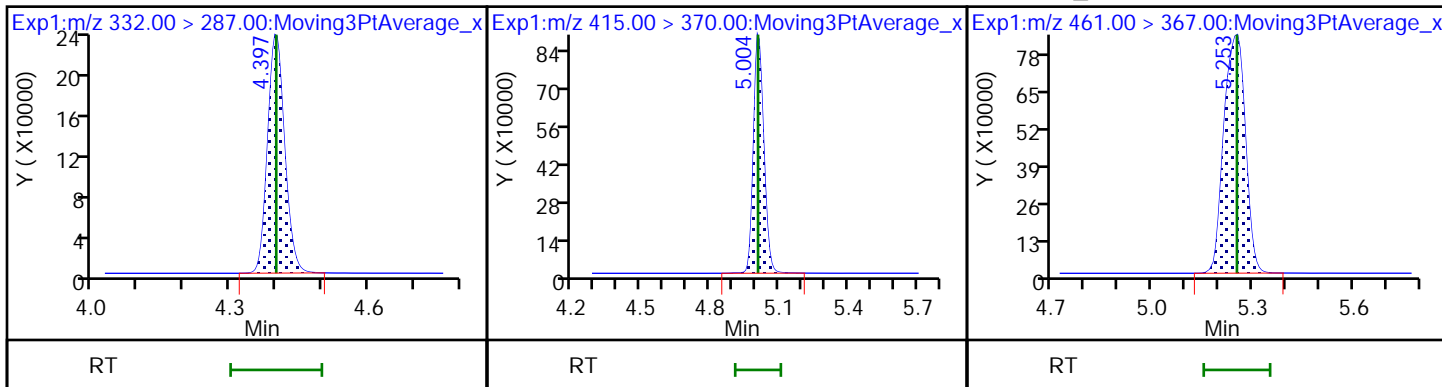
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

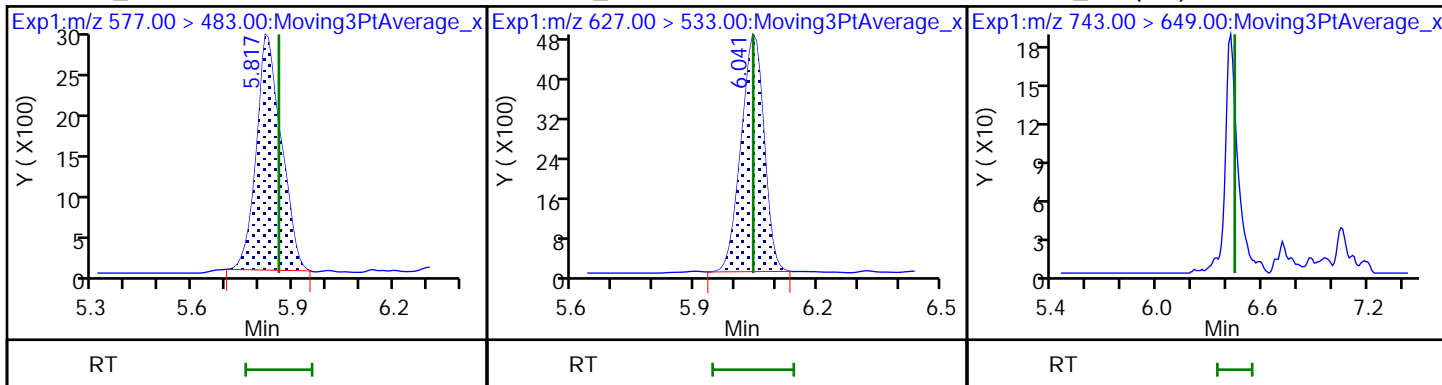
3 MFS_N2



4 MFS_M3

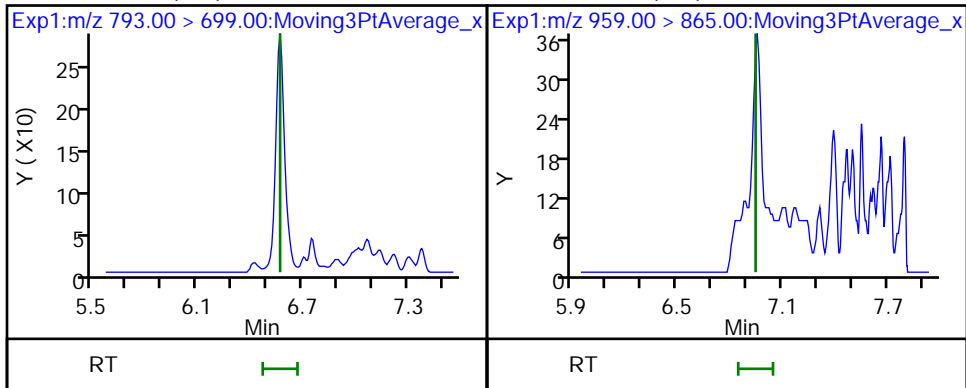
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19D Lab Sample ID: 410-90799-12

Matrix: Water Lab File ID: 22AUG08MFS-05.d

Analysis Method: MFS Date Collected: 07/12/2022 10:30

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 294.5(mL) Date Analyzed: 08/08/2022 19:21

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283896 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	240		8.5	1.7
STL02875	MFS_N3	18		8.5	1.7
STL02876	MFS_M4	ND		8.5	4.2
STL02877	MFS_N4	ND		17	8.5
STL02888	MFS_N5	ND		25	17

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	122		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-05.d
 Lims ID: 410-90799-A-12-A
 Client ID: MW-19D
 Sample Type: Client
 Inject. Date: 08-Aug-2022 19:21:27 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-A-12-A D10
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:39:35

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.379	0.010	0.879	58804	0.6107	122	193
* 2 13C2 PFOA	415.00 > 370.00	4.992	4.983	0.009		2384517	5.00		283
3 MFS_N2	461.00 > 367.00	5.236	5.232	0.004	1.193	75202607	241.0		E E
4 MFS_M3	577.00 > 483.00	5.809	5.839	-0.030	1.323	1711523	7.11		208
5 MFS_N3	627.00 > 533.00	6.025	6.028	-0.003	1.373	159508	0.5385		309

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-05.d

Injection Date: 08-Aug-2022 19:21:27

Instrument ID: 30733

Lims ID: 410-90799-A-12-A

Lab Sample ID: 410-90799-12

Client ID: MW-19D

Operator ID: US19_USR_INS20260

ALS Bottle#: 11 Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

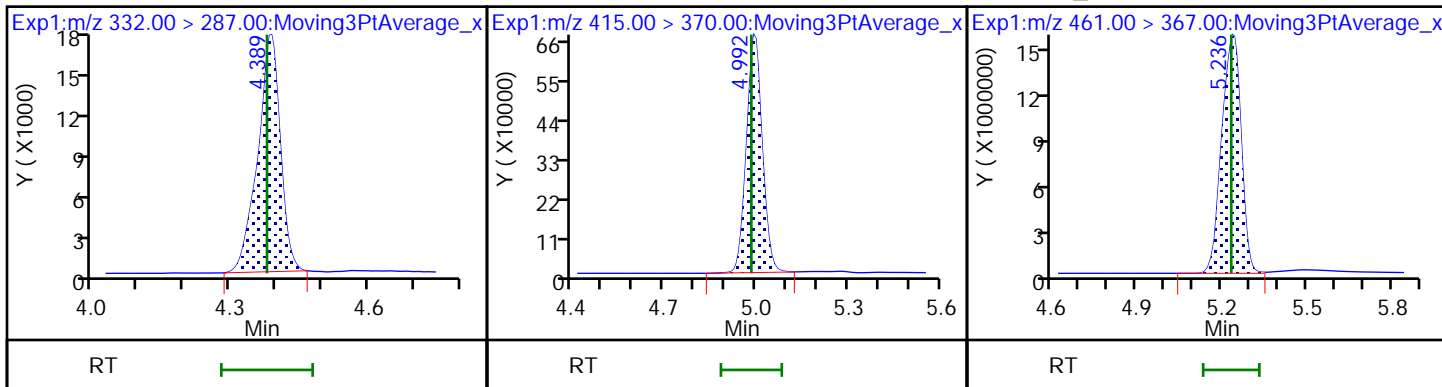
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

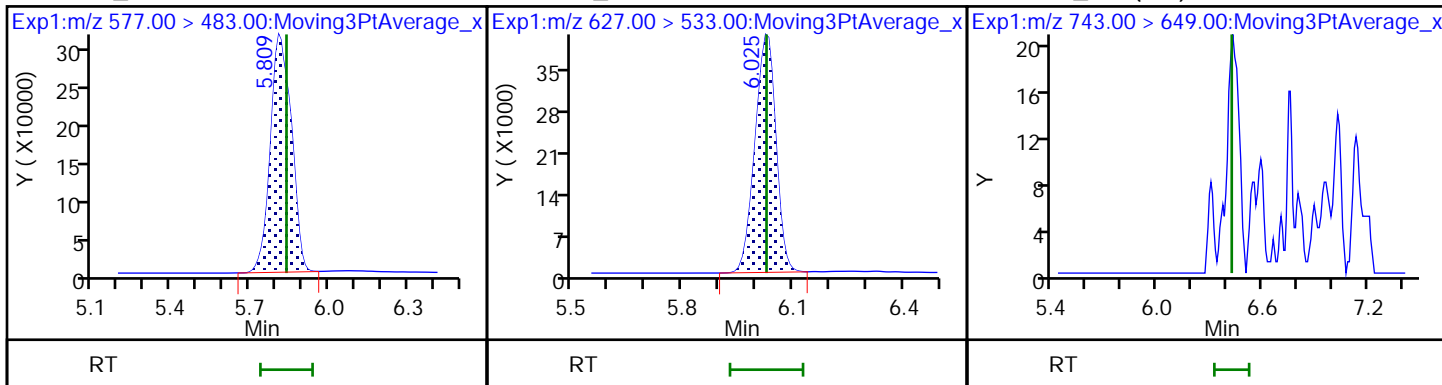
3 MFS_N2



4 MFS_M3

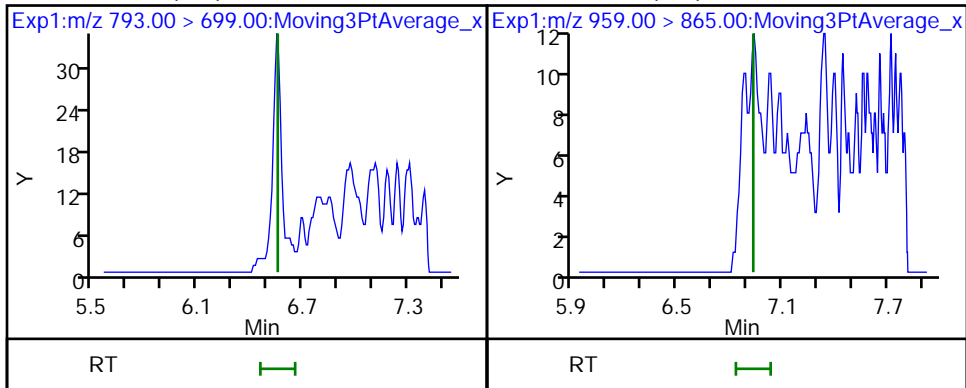
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19D DL Lab Sample ID: 410-90799-12 DL

Matrix: Water Lab File ID: 22AUG08MFS-06.d

Analysis Method: MFS Date Collected: 07/12/2022 10:30

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 294.5 (mL) Date Analyzed: 08/08/2022 19:34

Con. Extract Vol.: 1 (mL) Dilution Factor: 100

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283896 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	12000		85	17

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-06.d
 Lims ID: 410-90799-A-12-A
 Client ID: MW-19D
 Sample Type: Client
 Inject. Date: 08-Aug-2022 19:34:05 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 100.0000
 Sample Info: 410-90799-A-12-A D100
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:39:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.382	4.379	0.003	0.879	5999	0.0459	91.8	72.4	M
* 2 13C2 PFOA									
415.00 > 370.00	4.986	4.983	0.003		3237153	5.00		325	
3 MFS_N2									
461.00 > 367.00	5.237	5.232	0.005	1.195	11217325	35.2		3487	
4 MFS_M3									
577.00 > 483.00	5.798	5.839	-0.041	1.323	181753	0.6706		188	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-06.d

Injection Date: 08-Aug-2022 19:34:05

Instrument ID: 30733

Lims ID: 410-90799-A-12-A

Lab Sample ID:

Client ID: MW-19D

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 100.0000

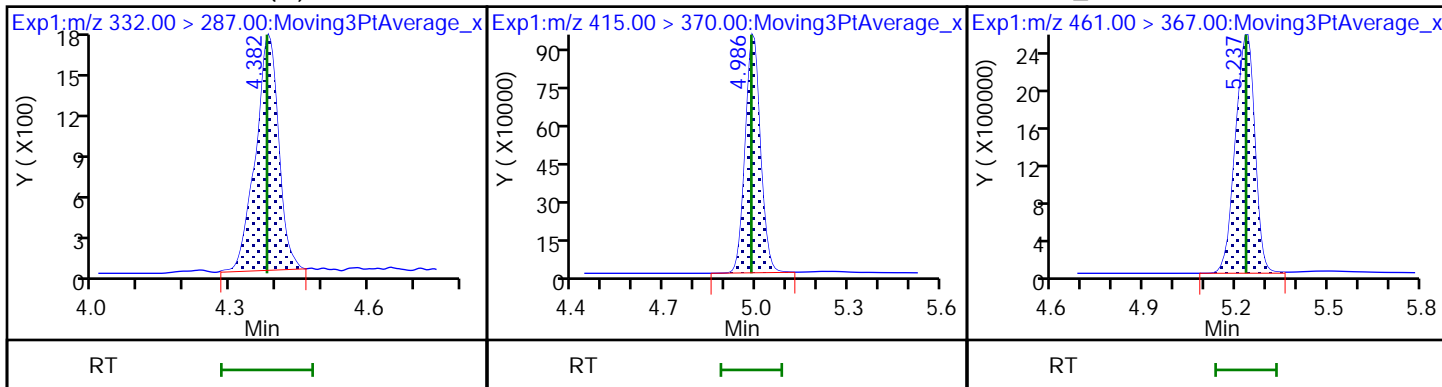
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

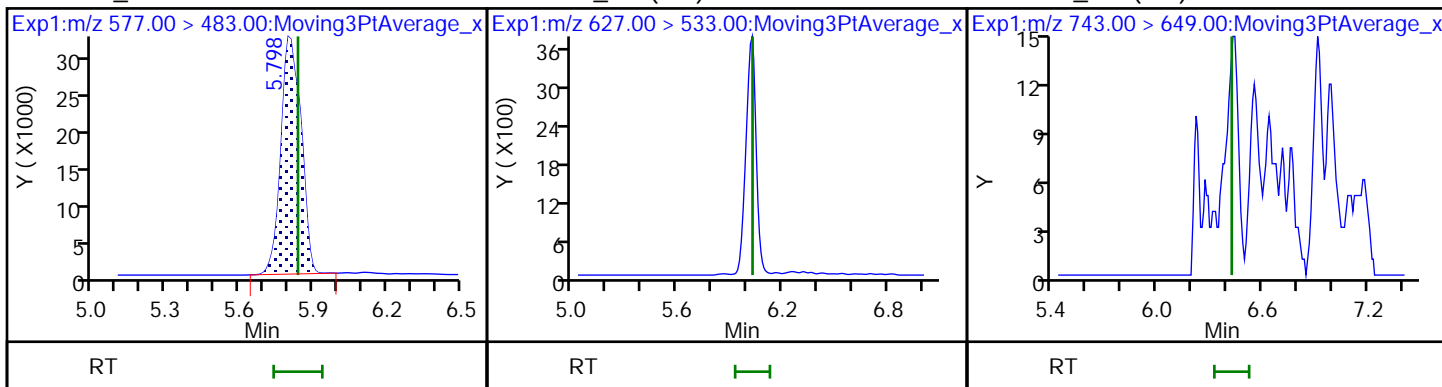
3 MFS_N2



4 MFS_M3

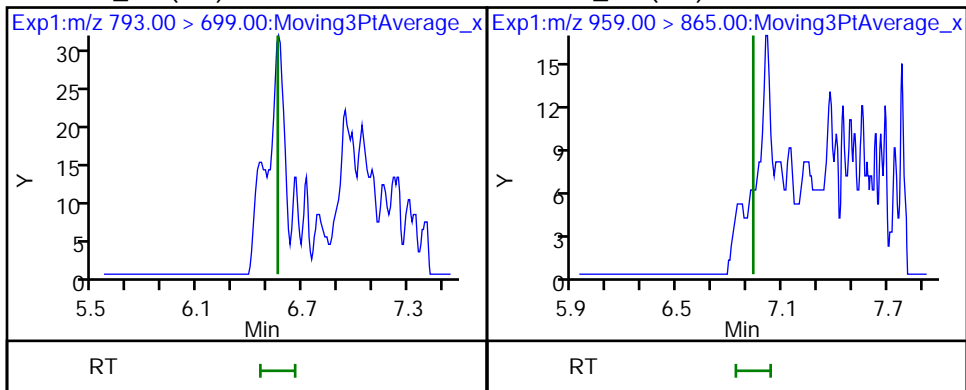
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



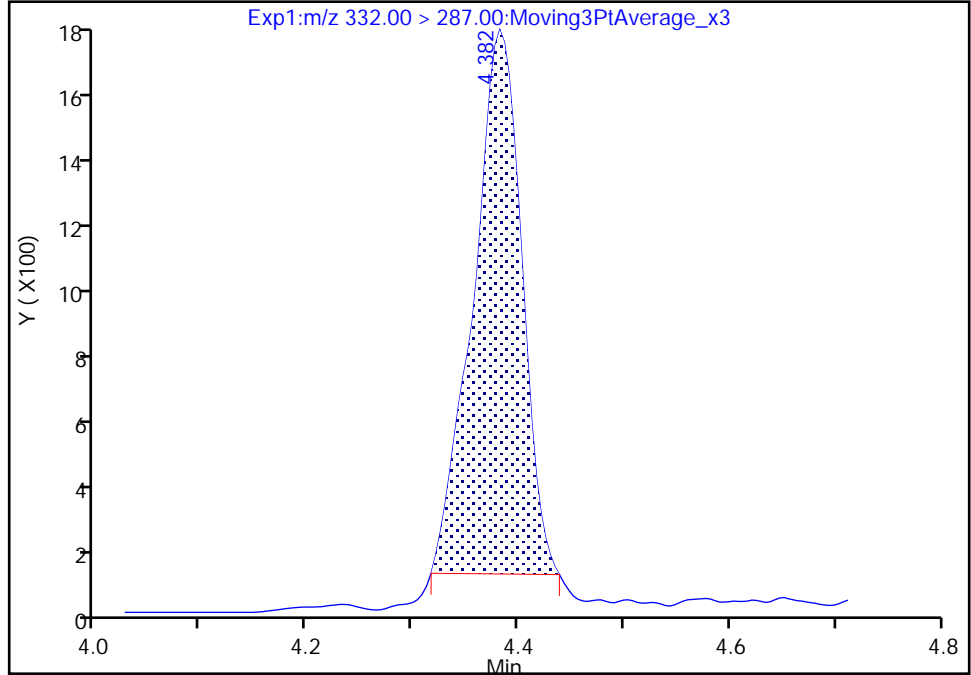
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-06.d
Injection Date: 08-Aug-2022 19:34:05 Instrument ID: 30733
Lims ID: 410-90799-A-12-A Lab Sample ID:
Client ID: MW-19D
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 100.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

D 1 13C3 HFPO-DA, CAS: STL02255
Signal: 1

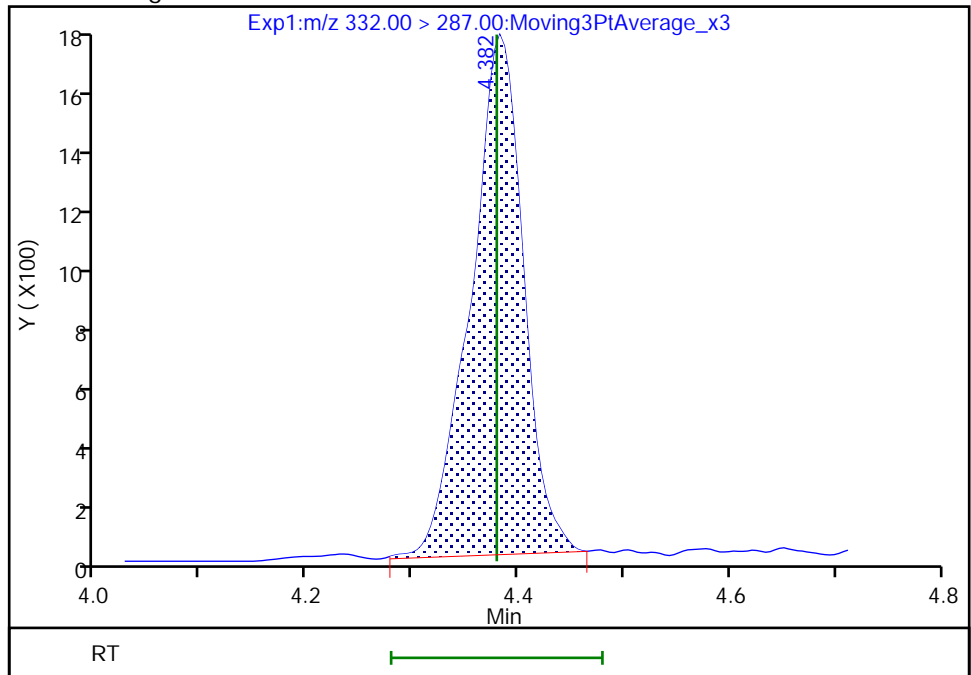
RT: 4.38
Area: 5196
Amount: 0.039747
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 5999
Amount: 0.045889
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 09:41:11
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19I Lab Sample ID: 410-90799-13

Matrix: Water Lab File ID: 22AUG5MFS-11.d

Analysis Method: MFS Date Collected: 07/12/2022 11:10

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 270 (mL) Date Analyzed: 08/05/2022 14:24

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	1.9		0.93	0.19
STL02875	MFS_N3	1.2		0.93	0.19
STL02876	MFS_M4	ND		0.93	0.46
STL02877	MFS_N4	ND		1.9	0.93
STL02888	MFS_N5	ND		2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	202	*5+ cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-11.d
 Lims ID: 410-90799-A-13-A
 Client ID: MW-19I
 Sample Type: Client
 Inject. Date: 05-Aug-2022 14:24:51 ALS Bottle#: 18 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-13-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:06:18
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.391	4.400	-0.009	0.878	585295	10.1	202	2863
* 2 13C2 PFOA	415.00 > 370.00	5.000	5.007	-0.007		1436018	5.00	271	s
3 MFS_N2	461.00 > 367.00	5.244	5.252	-0.008	1.194	188506431	607.1	6867	E
4 MFS_M3	577.00 > 483.00	5.818	5.857	-0.039	1.325	137265	0.5015	326	E
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.376	103152	0.3359	578	
6 MFS_M4	743.00 > 649.00	6.406	6.440	-0.034	1.459	2909	-0.0423	59.3	
7 MFS_N4	793.00 > 699.00	6.562	6.571	-0.009	1.495	3877	-0.0784	92.1	

QC Flag Legend

Processing Flags

- E - Exceeded Maximum Amount
- s - Failed ISTD Recovery Test

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-11.d

Injection Date: 05-Aug-2022 14:24:51

Instrument ID: 30733

Lims ID: 410-90799-A-13-A

Lab Sample ID: 410-90799-13

Client ID: MW-191

Operator ID: US19_USR_INS20260

ALS Bottle#: 18 Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

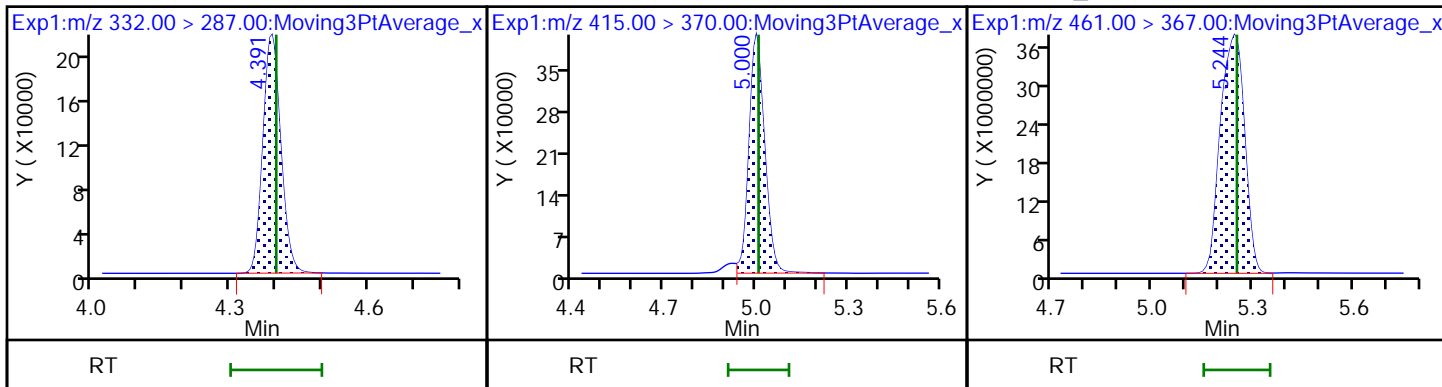
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

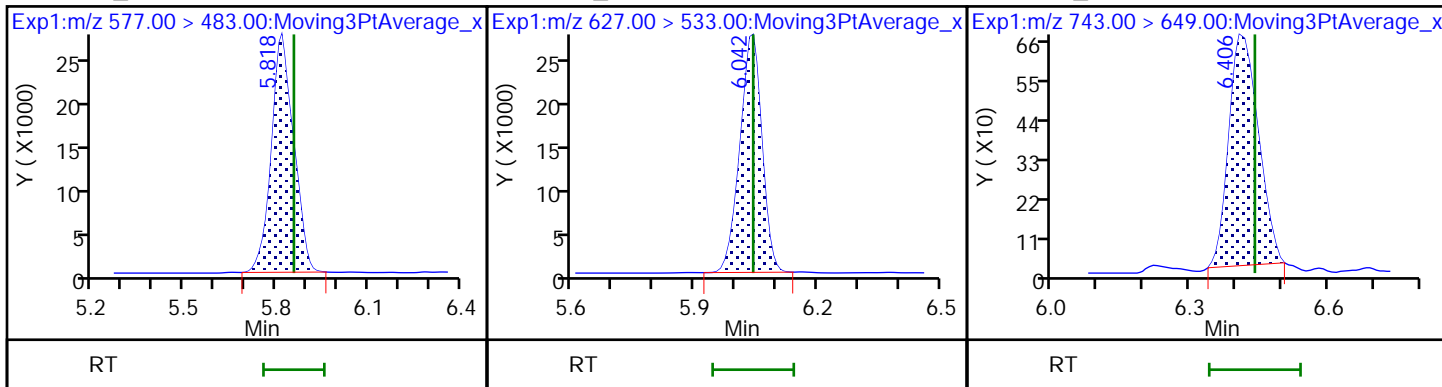
3 MFS_N2



4 MFS_M3

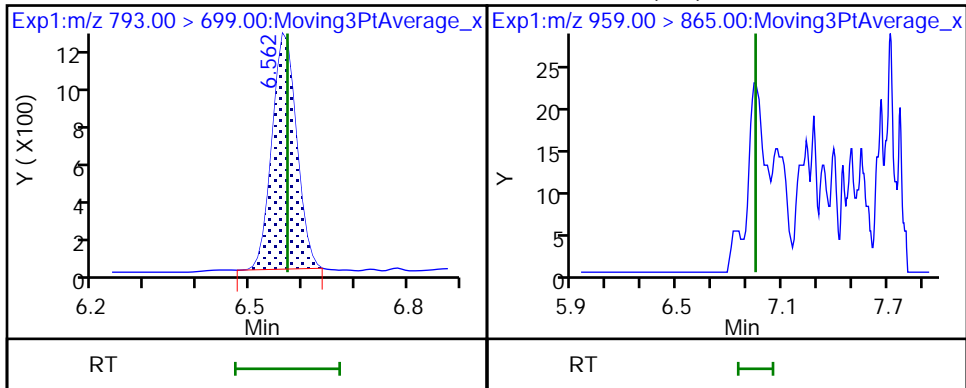
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19I RA Lab Sample ID: 410-90799-13 RA

Matrix: Water Lab File ID: 22AUG09MFS-02.d

Analysis Method: MFS Date Collected: 07/12/2022 11:10

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 270 (mL) Date Analyzed: 08/10/2022 01:22

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284258 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	2000	E	0.93	0.19
STL02874	MFS_M3	1.5		0.93	0.19
STL02875	MFS_N3	1.1		0.93	0.19
STL02876	MFS_M4	ND		0.93	0.46
STL02877	MFS_N4	ND		1.9	0.93
STL02888	MFS_N5	ND		2.8	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	221	*5+ cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-02.d
 Lims ID: 410-90799-A-13-A
 Client ID: MW-19I
 Sample Type: Client
 Inject. Date: 10-Aug-2022 01:22:09 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-13-A RA
 Misc. Info.: Plate: 10 Rack: 1 410-0063744-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 10-Aug-2022 10:48:03 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 10:47:10
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.394	-0.005	0.878	666604	11.0	221	354
* 2 13C2 PFOA	415.00 > 370.00	4.997	4.999	-0.002		1493844	5.00	186	sM M
3 MFS_N2	461.00 > 367.00	5.239	5.244	-0.005	1.194	187149157	529.2	1942	E E
4 MFS_M3	577.00 > 483.00	5.811	5.848	-0.037	1.324	132917	0.4147	195	
5 MFS_N3	627.00 > 533.00	6.035	6.034	0.001	1.375	101915	0.2861	269	

QC Flag Legend

Processing Flags

- E - Exceeded Maximum Amount
- s - Failed ISTD Recovery Test

Review Flags

- M - Manually Integrated

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-02.d

Injection Date: 10-Aug-2022 01:22:09

Instrument ID: 30733

Lims ID: 410-90799-A-13-A

Lab Sample ID: 410-90799-13

Client ID: MW-191

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

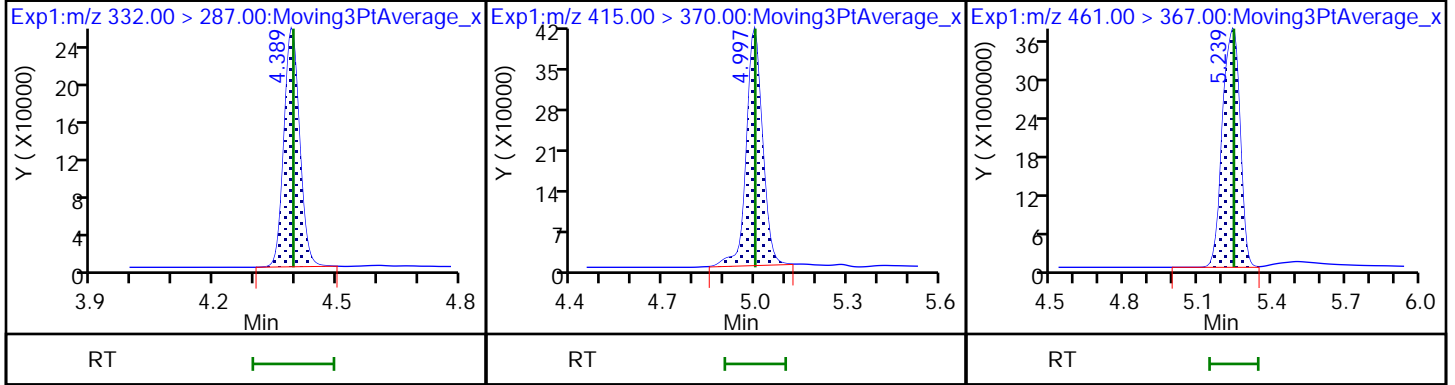
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA (M)

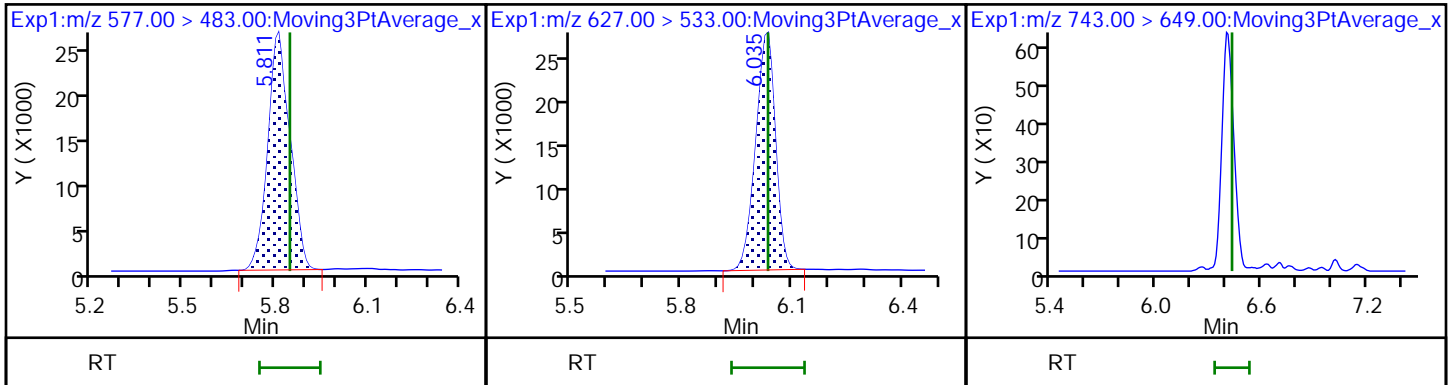
3 MFS_N2



4 MFS_M3

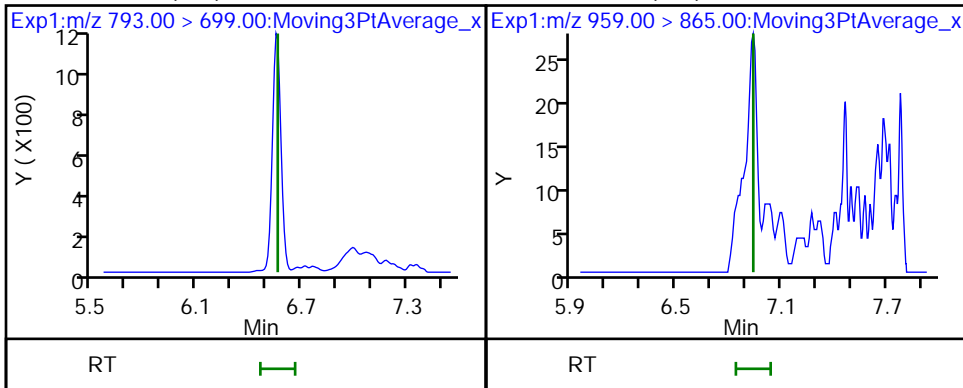
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



Eurofins Lancaster Laboratories Environment Testing, LLC

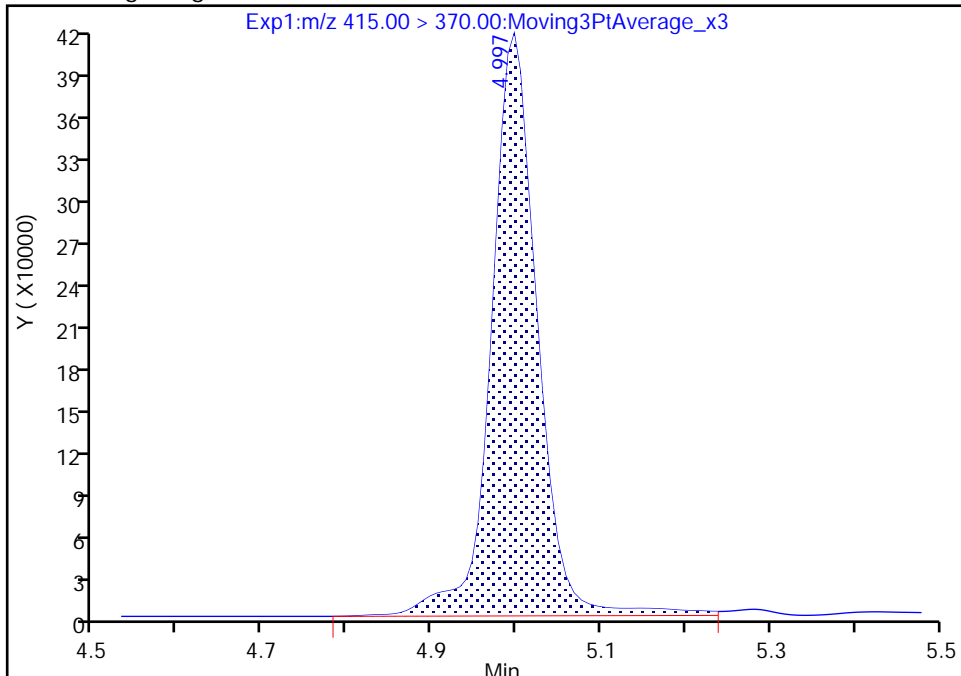
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Injection Date: 10-Aug-2022 01:22:09 Instrument ID: 30733
Lims ID: 410-90799-A-13-A Lab Sample ID: 410-90799-13
Client ID: MW-191
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

* 2 13C2 PFOA, CAS: STL00623

Signal: 1

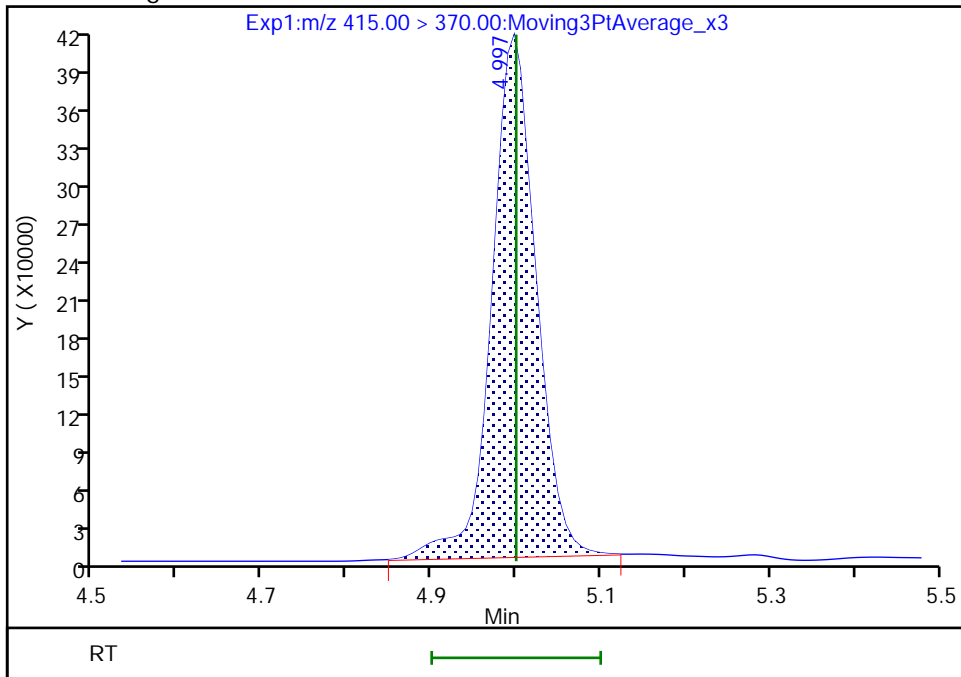
RT: 5.00
Area: 1565336
Amount: 5.000000
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1493844
Amount: 5.000000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 10:47:03
Audit Action: Manually Integrated

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19I DL Lab Sample ID: 410-90799-13 DL

Matrix: Water Lab File ID: 22AUG08MFS-07.d

Analysis Method: MFS Date Collected: 07/12/2022 11:10

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 270 (mL) Date Analyzed: 08/08/2022 19:46

Con. Extract Vol.: 1 (mL) Dilution Factor: 100

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283896 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	6300		93	19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	90	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-07.d
 Lims ID: 410-90799-A-13-A
 Client ID: MW-191
 Sample Type: Client
 Inject. Date: 08-Aug-2022 19:46:39 ALS Bottle#: 13 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 100.0000
 Sample Info: 410-90799-A-13-A D100
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:39:47
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									M
332.00 > 287.00	4.389	4.379	0.010	0.879	5253	0.0449	89.7	74.3	M
* 2 13C2 PFOA									
415.00 > 370.00	4.991	4.983	0.008		2900094	5.00		303	
3 MFS_N2									
461.00 > 367.00	5.235	5.232	0.003	1.193	4732861	16.9		2838	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-07.d

Injection Date: 08-Aug-2022 19:46:39

Instrument ID: 30733

Lims ID: 410-90799-A-13-A

Lab Sample ID: 410-90799-13

Client ID: MW-191

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 100.0000

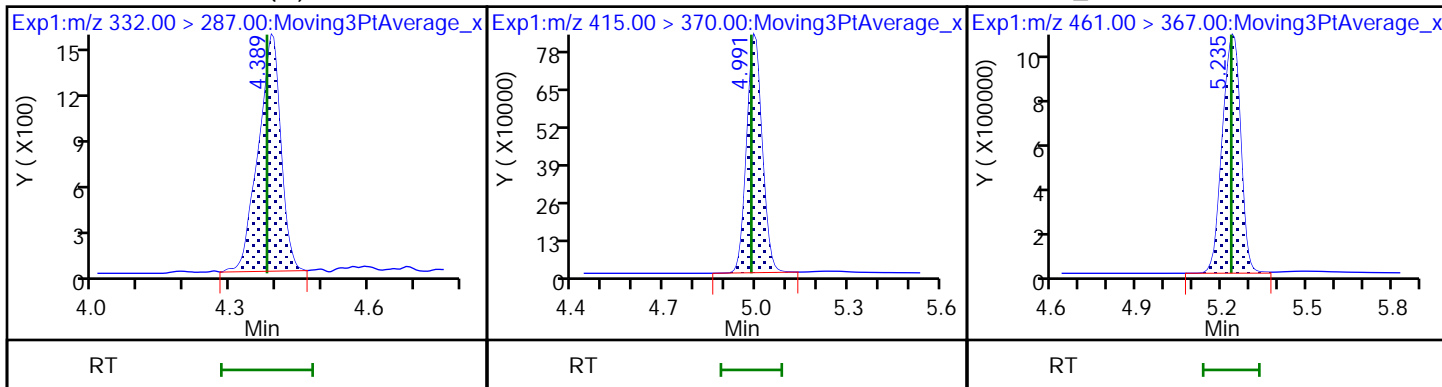
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA (M)

* 2 13C2 PFOA

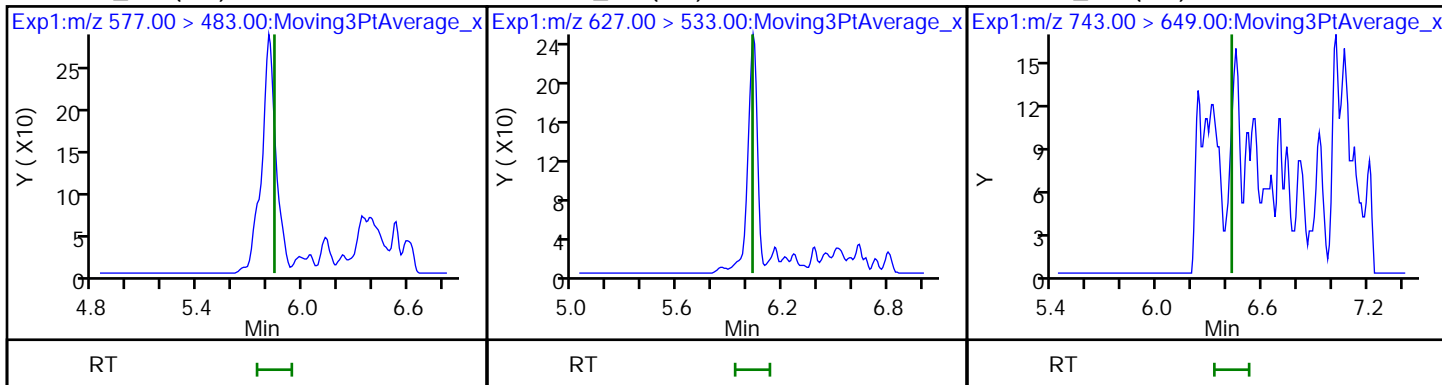
3 MFS_N2



4 MFS_M3 (ND)

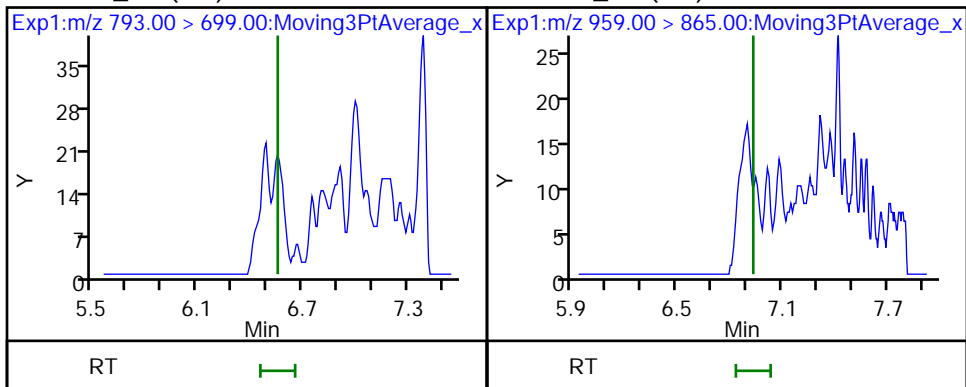
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



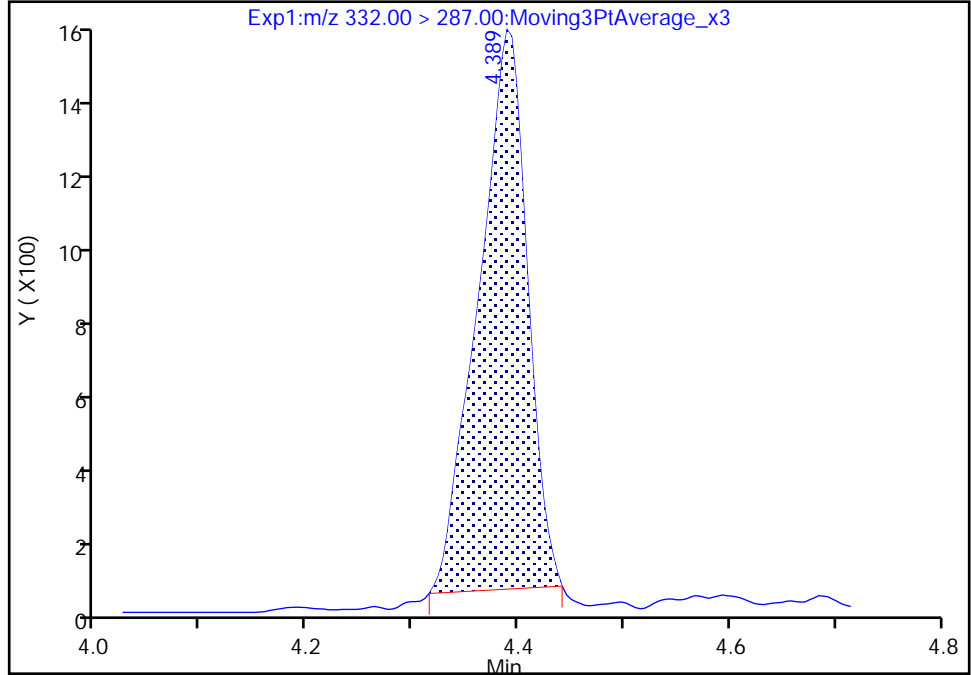
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-07.d
Injection Date: 08-Aug-2022 19:46:39 Instrument ID: 30733
Lims ID: 410-90799-A-13-A Lab Sample ID: 410-90799-13
Client ID: MW-191
Operator ID: US19_USR_INS20260 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 100.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

D 1 13C3 HFPO-DA, CAS: STL02255
Signal: 1

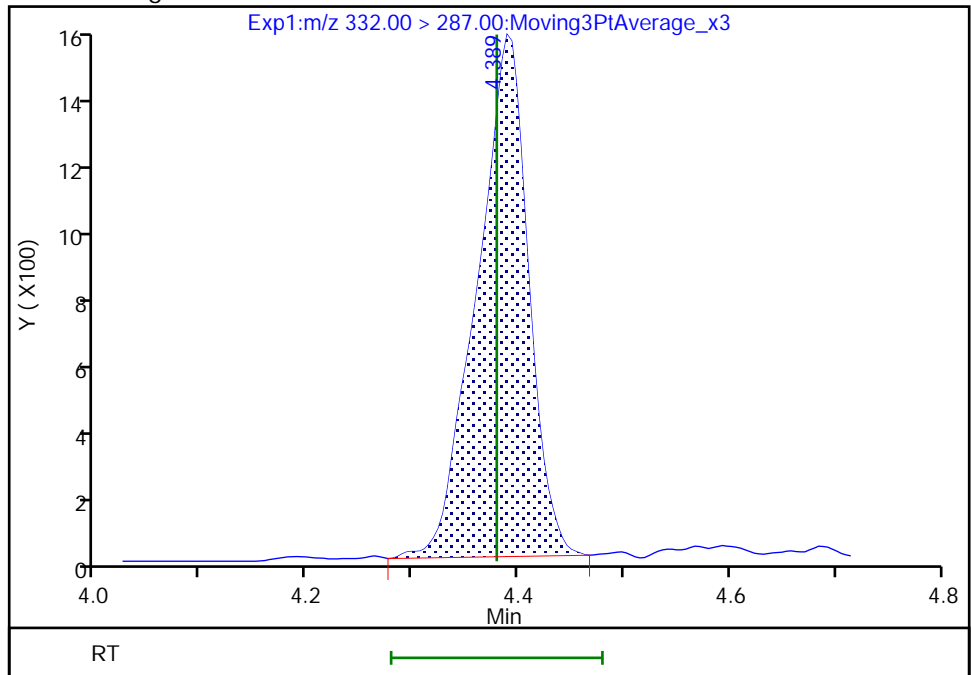
RT: 4.39
Area: 4831
Amount: 0.041250
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 5253
Amount: 0.044853
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 09:40:50
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19S Lab Sample ID: 410-90799-14

Matrix: Water Lab File ID: 22AUG5MFS-12.d

Analysis Method: MFS Date Collected: 07/12/2022 12:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 295.8 (mL) Date Analyzed: 08/05/2022 14:37

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	ND		0.85	0.17
STL02875	MFS_N3	1.7		0.85	0.17
STL02876	MFS_M4	ND		0.85	0.42
STL02877	MFS_N4	ND		1.7	0.85
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-12.d
 Lims ID: 410-90799-A-14-A
 Client ID: MW-19S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 14:37:26 ALS Bottle#: 19 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-14-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1

Process Host: CTX1627

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.397	4.400	-0.003	0.879	595922	5.60	112	2857
* 2 13C2 PFOA	415.00 > 370.00	5.004	5.007	-0.003		2634797	5.00		3236
3 MFS_N2									E
461.00 > 367.00	5.224	5.252	-0.028	1.188	77868706	246.2		5478	E
4 MFS_M3									
577.00 > 483.00	5.817	5.857	-0.040	1.323	22566	0.0157		85.0	
5 MFS_N3									
627.00 > 533.00	6.041	6.042	-0.001	1.374	152158	0.5045		1032	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-12.d

Injection Date: 05-Aug-2022 14:37:26

Instrument ID: 30733

Lims ID: 410-90799-A-14-A

Lab Sample ID: 410-90799-14

Client ID: MW-19S

Operator ID: US19_USR_INS20260

ALS Bottle#: 19

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

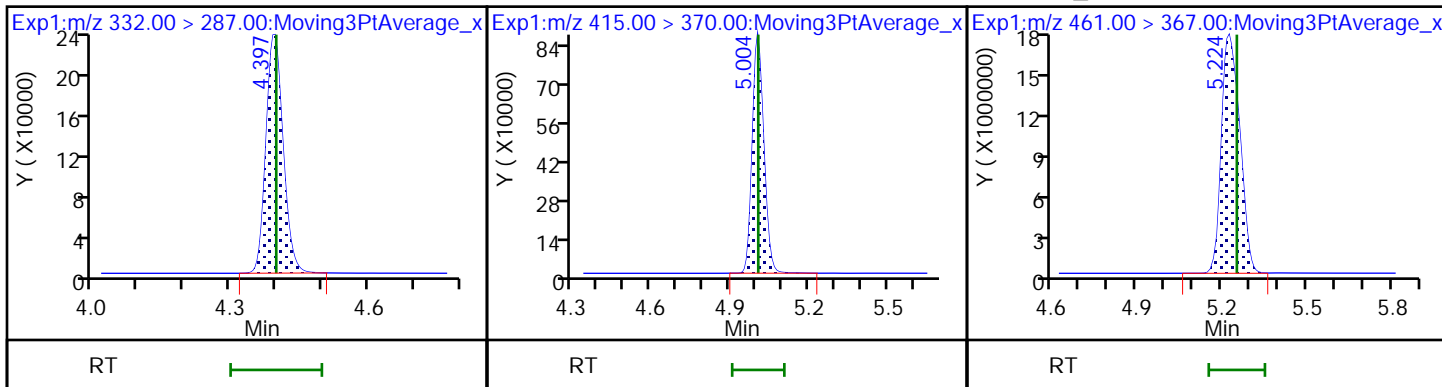
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

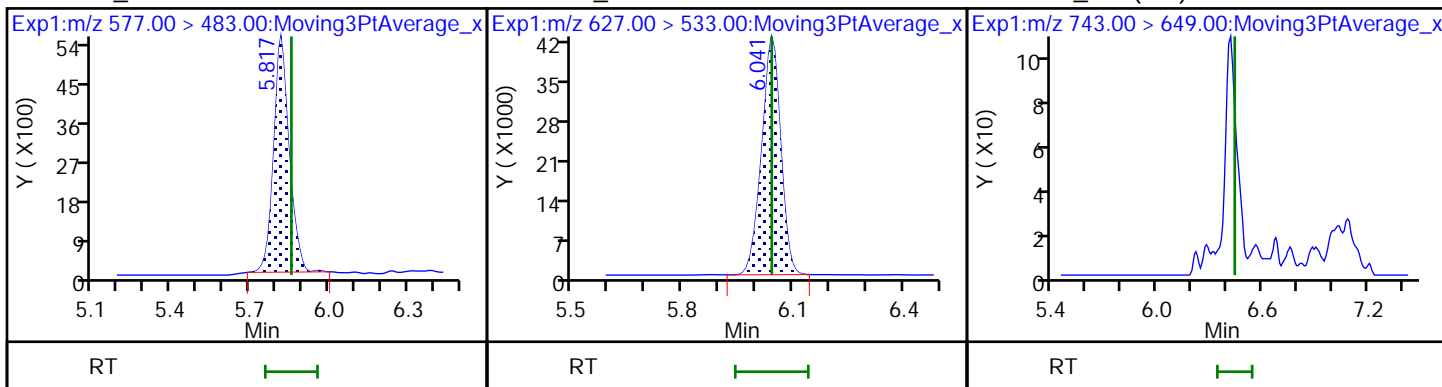
3 MFS_N2



4 MFS_M3

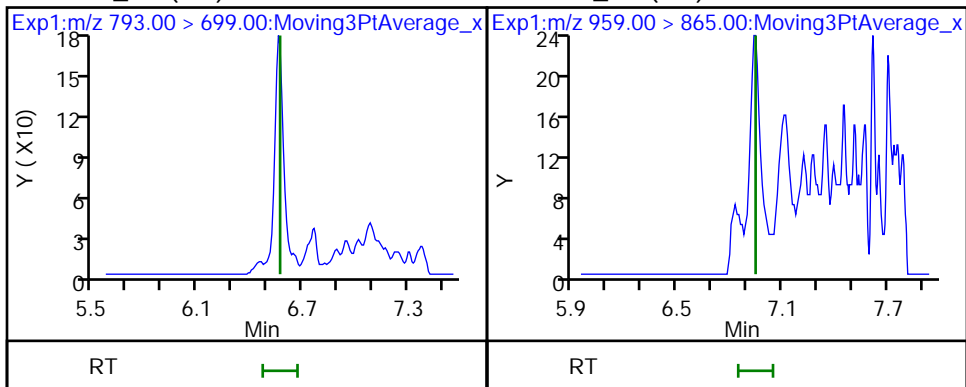
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-19S DL Lab Sample ID: 410-90799-14 DL

Matrix: Water Lab File ID: 22AUG08MFS-08.d

Analysis Method: MFS Date Collected: 07/12/2022 12:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 295.8 (mL) Date Analyzed: 08/08/2022 19:59

Con. Extract Vol.: 1 (mL) Dilution Factor: 10

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283896 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1400		8.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	93		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-08.d
 Lims ID: 410-90799-A-14-A
 Client ID: MW-19S
 Sample Type: Client
 Inject. Date: 08-Aug-2022 19:59:13 ALS Bottle#: 14 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-90799-A-14-A D10
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:39:54
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.386	4.379	0.007	0.878	62748	0.4644	92.9	193
* 2 13C2 PFOA	415.00 > 370.00	4.993	4.983	0.010		3345636	5.00		340
3 MFS_N2	461.00 > 367.00	5.208	5.232	-0.024	1.187	13750218	41.2		4010

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-08.d

Injection Date: 08-Aug-2022 19:59:13

Instrument ID: 30733

Lims ID: 410-90799-A-14-A

Lab Sample ID: 410-90799-14

Client ID: MW-19S

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

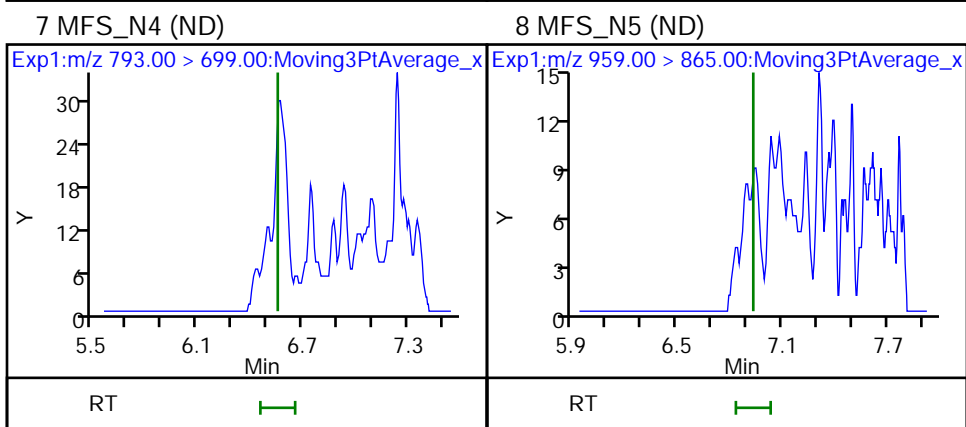
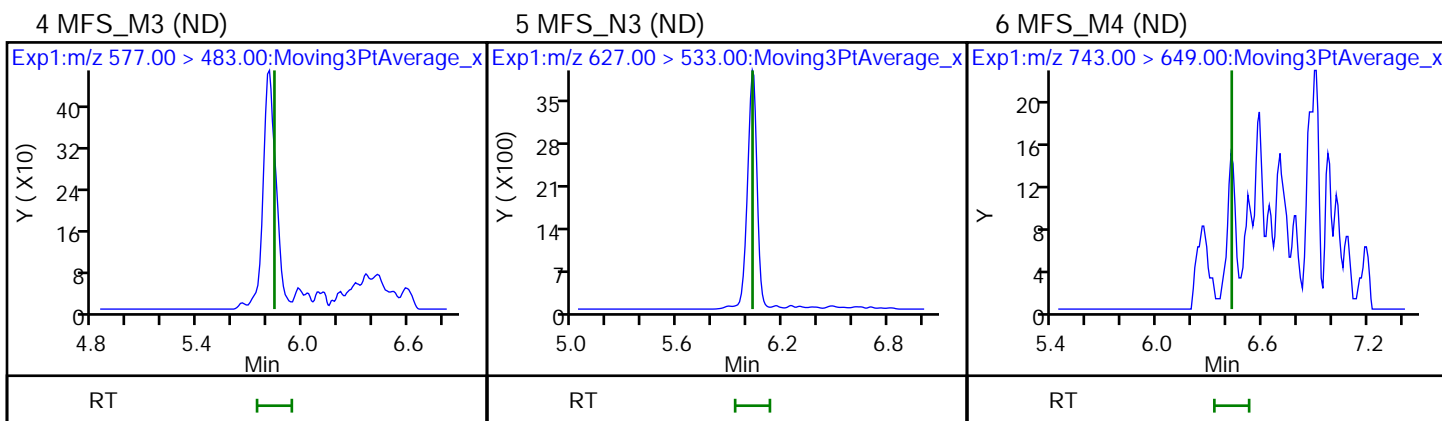
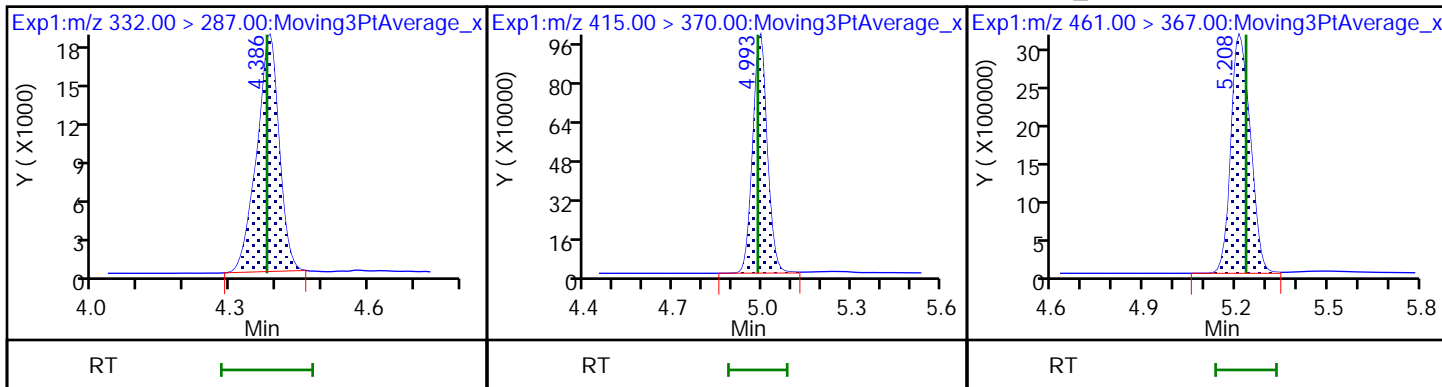
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-38D Lab Sample ID: 410-90799-15

Matrix: Water Lab File ID: 22AUG5MFS-13.d

Analysis Method: MFS Date Collected: 07/12/2022 11:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 320.1(mL) Date Analyzed: 08/05/2022 14:50

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	63		0.78	0.16
STL02874	MFS_M3	ND		0.78	0.16
STL02875	MFS_N3	ND		0.78	0.16
STL02876	MFS_M4	ND		0.78	0.39
STL02877	MFS_N4	ND		1.6	0.78
STL02888	MFS_N5	ND		2.3	1.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	137		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-13.d
 Lims ID: 410-90799-A-15-A
 Client ID: MW-38D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 14:50:00 ALS Bottle#: 20 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-15-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-013
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:06:26
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.393	4.400	-0.007	0.878	639825	6.83	137	2582
* 2 13C2 PFOA	415.00 > 370.00	5.005	5.007	-0.002		2319771	5.00		2341
3 MFS_N2	461.00 > 367.00	5.250	5.252	-0.002	1.195	6888540	20.2		840
4 MFS_M3	577.00 > 483.00	5.806	5.857	-0.051	1.322	4581	-0.0602		21.6
5 MFS_N3	627.00 > 533.00	6.039	6.042	-0.003	1.375	5194	-0.0225		50.4

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-13.d

Injection Date: 05-Aug-2022 14:50:00

Instrument ID: 30733

Lims ID: 410-90799-A-15-A

Lab Sample ID: 410-90799-15

Client ID: MW-38D

Operator ID: US19_USR_INS20260

ALS Bottle#: 20

Worklist Smp#: 13

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

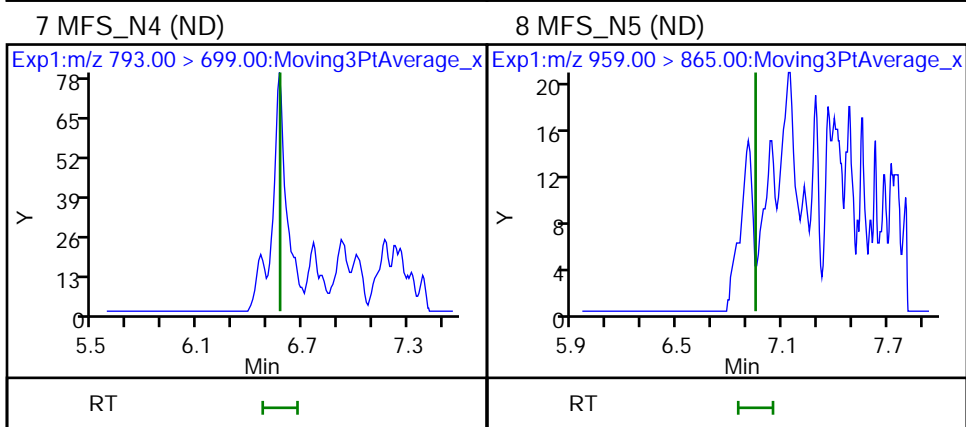
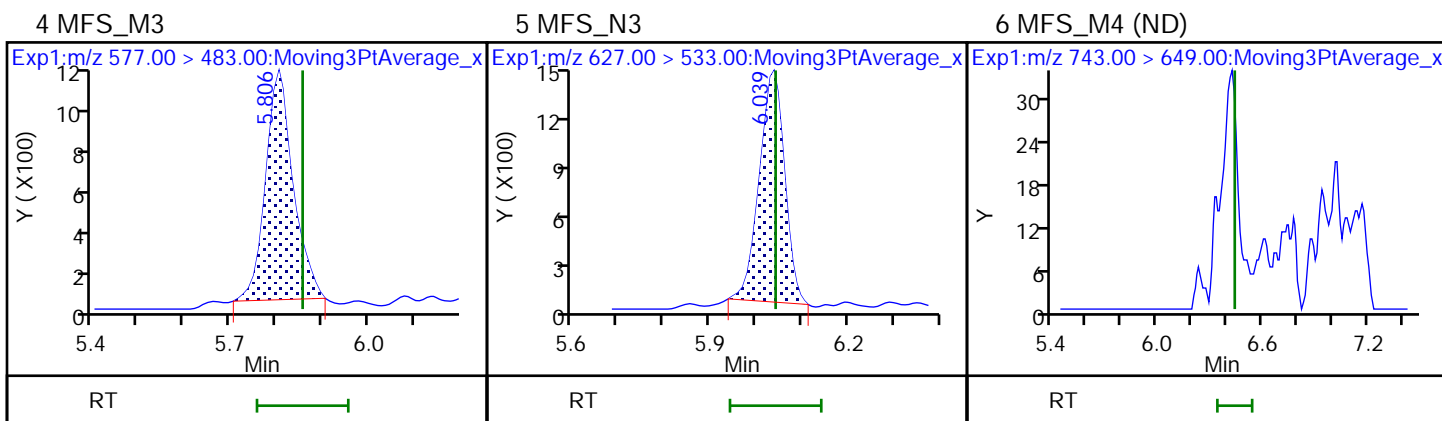
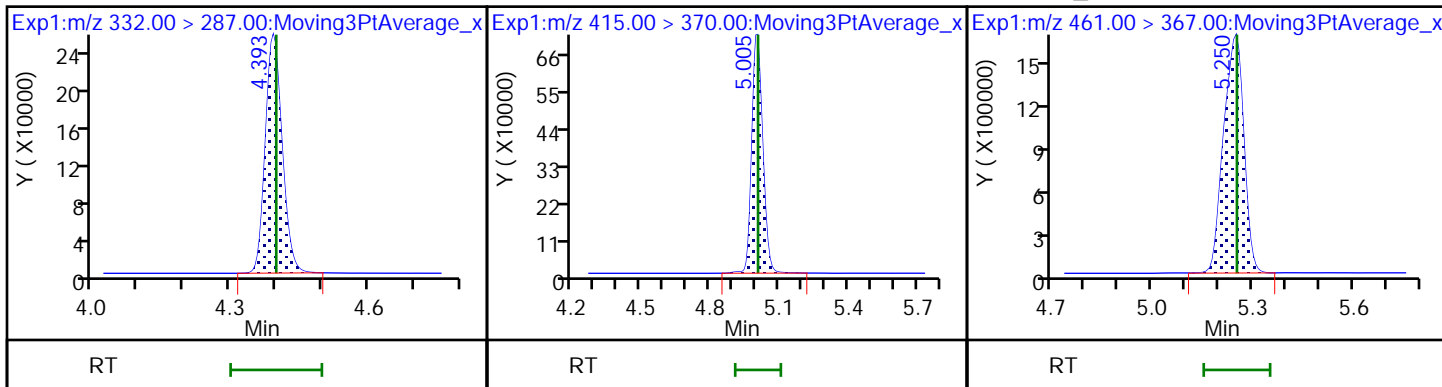
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-33S Lab Sample ID: 410-90799-16

Matrix: Water Lab File ID: 22AUG5MFS-14.d

Analysis Method: MFS Date Collected: 07/12/2022 13:00

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 295.8(mL) Date Analyzed: 08/05/2022 15:02

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	42		0.85	0.17
STL02874	MFS_M3	ND		0.85	0.17
STL02875	MFS_N3	ND		0.85	0.17
STL02876	MFS_M4	ND		0.85	0.42
STL02877	MFS_N4	ND		1.7	0.85
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-14.d
 Lims ID: 410-90799-A-16-A
 Client ID: MW-33S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 15:02:34 ALS Bottle#: 21 Worklist Smp#: 14
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-16-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:06:30
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.399	4.400	-0.001	0.879	637161	4.92	98.5	2686
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3205218	5.00		3462
3 MFS_N2	461.00 > 367.00	5.250	5.252	-0.002	1.193	4258642	12.5		535
4 MFS_M3	577.00 > 483.00	5.823	5.857	-0.034	1.324	11560	-0.0330		49.9
5 MFS_N3	627.00 > 533.00	6.047	6.042	0.005	1.375	22344	0.0349		163

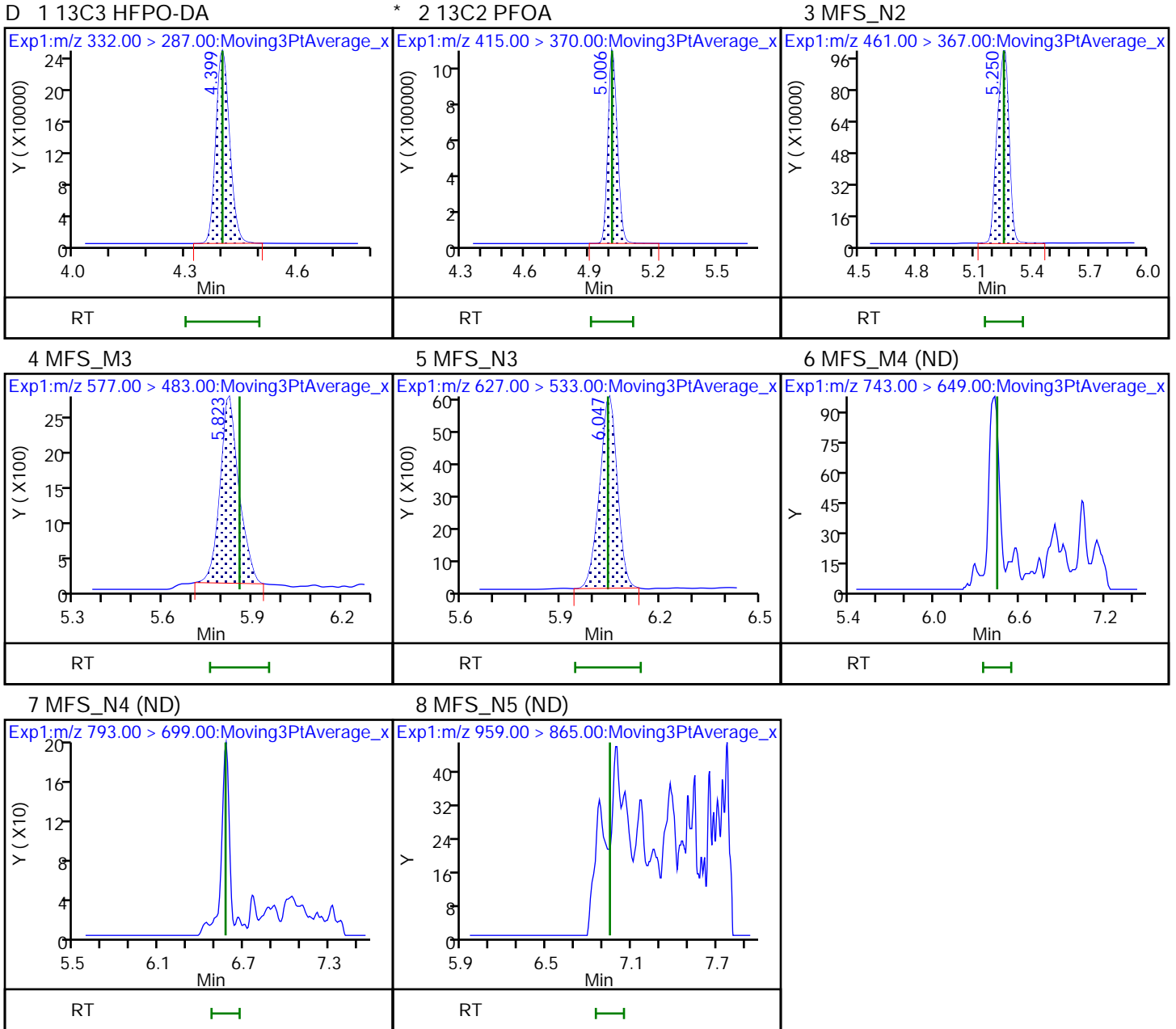
QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-14.d
Injection Date: 05-Aug-2022 15:02:34 Instrument ID: 30733
Lims ID: 410-90799-A-16-A Lab Sample ID: 410-90799-16
Client ID: MW-33S
Operator ID: US19_USR_INS20260 ALS Bottle#: 21 Worklist Smp#: 14
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-41D Lab Sample ID: 410-90799-17

Matrix: Water Lab File ID: 22AUG5MFS-15.d

Analysis Method: MFS Date Collected: 07/12/2022 14:35

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 293.8(mL) Date Analyzed: 08/05/2022 15:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	28		0.85	0.17
STL02874	MFS_M3	ND		0.85	0.17
STL02875	MFS_N3	ND		0.85	0.17
STL02876	MFS_M4	ND		0.85	0.43
STL02877	MFS_N4	ND		1.7	0.85
STL02888	MFS_N5	ND		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	120		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-15.d
 Lims ID: 410-90799-A-17-A
 Client ID: MW-41D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 15:15:11 ALS Bottle#: 22 Worklist Smp#: 15
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-90799-A-17-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-015
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:06:33
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.393	4.400	-0.007	0.879	628507	5.98	120	2757
* 2 13C2 PFOA	415.00 > 370.00	4.998	5.007	-0.009		2603490	5.00		2900
3 MFS_N2	461.00 > 367.00	5.242	5.252	-0.010	1.193	2817013	8.37		433
4 MFS_M3	577.00 > 483.00	5.814	5.857	-0.043	1.324	31647	0.0465		101
5 MFS_N3	627.00 > 533.00	6.039	6.042	-0.003	1.375	6307	-0.0185		48.6

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-15.d

Injection Date: 05-Aug-2022 15:15:11

Instrument ID: 30733

Lims ID: 410-90799-A-17-A

Lab Sample ID: 410-90799-17

Client ID: MW-41D

Operator ID: US19_USR_INS20260

ALS Bottle#: 22

Worklist Smp#: 15

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

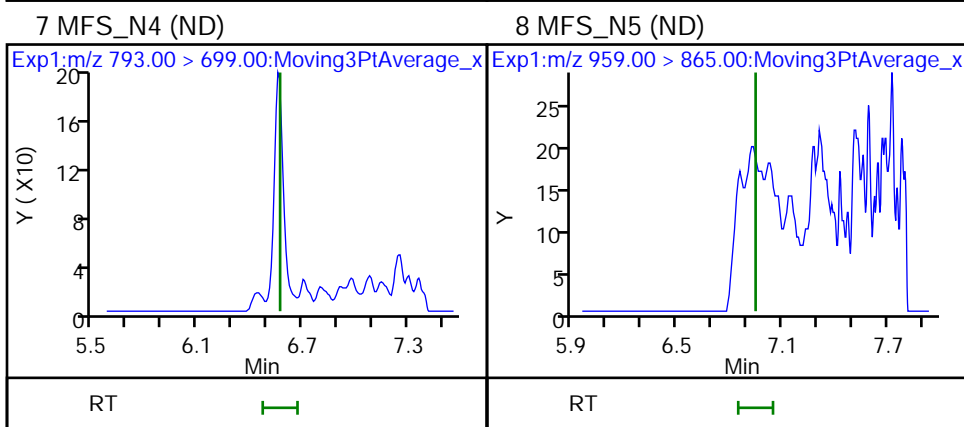
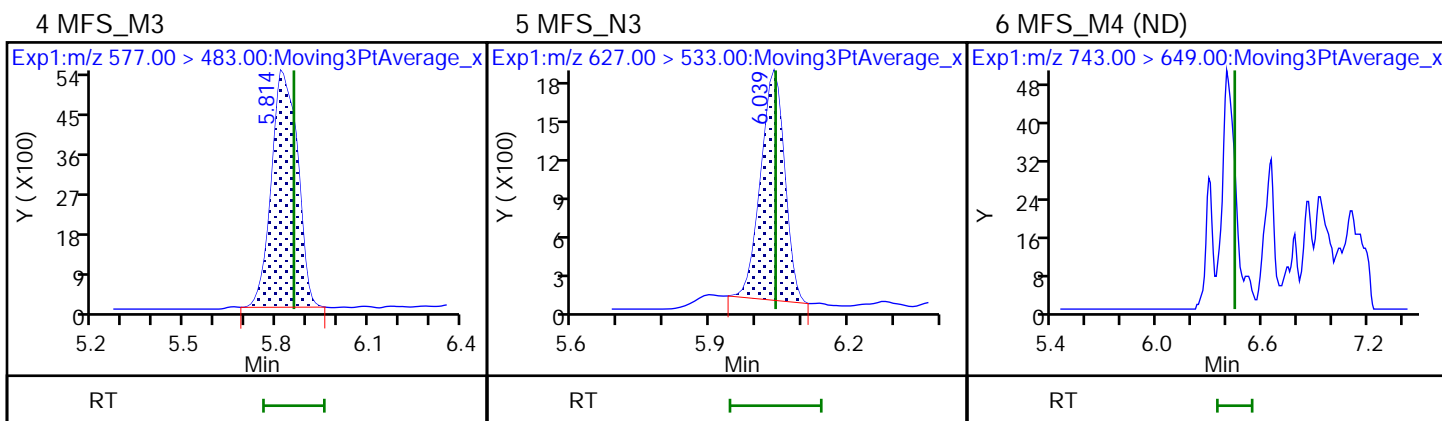
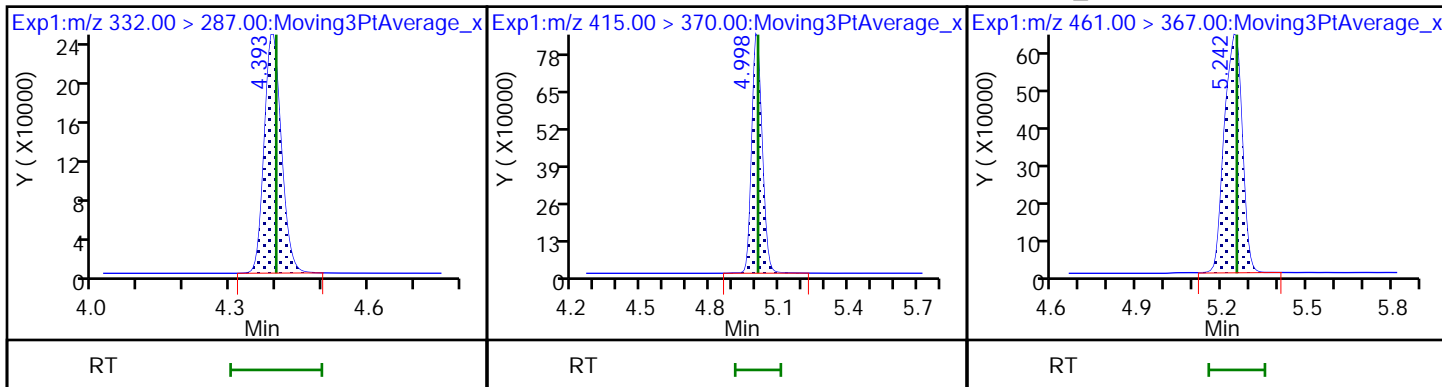
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	3.1413 2.8445	2.9008 2.4887	2.9557	2.9518	2.9432	L1ID	0.217 4	2.652 3						0.9940		0.9900	
MFS_M3	2.4507 2.1452	2.2440 1.9254	2.1663	2.2241	2.1896	L1ID	0.157 6	2.023 9						0.9960		0.9900	
MFS_N3	2.6235 2.4669	2.3256 2.2451	2.4411	2.4745	2.5266	L1ID	0.093 4	2.345 2						0.9970		0.9900	
MFS_M4	1.1959 1.1147	1.1009 0.9770	1.1206	1.1335	1.1472	L1ID	0.068 8	1.039 1						0.9950		0.9900	
MFS_N4	1.5026 1.1293	1.3814 +++++	1.3612	1.3436	1.2213	L1ID	0.124 8	1.169 8						0.9960		0.9900	
MFS_N5	1.3024 1.1832	1.1960 +++++	1.2566	1.3302	1.3063	L1ID	0.027 6	1.229 0						0.9970		0.9900	
13C3 HFPO-DA	0.2006 0.1992	0.2065 0.2105	0.1979	0.1942	0.2044	Ave		0.201 9			2.8						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		L1ID	95417 8499793	192513 16896802	378434	1780473	3848185	0.241 24.1	0.482 48.2	0.964	4.82	9.64
MFS_M3		L1ID	76048 6548749	152139 13354811	283357	1370537	2924780	0.246 24.6	0.492 49.2	0.985	4.92	9.85
MFS_N3		L1ID	82777 7657320	160319 15833576	324662	1550403	3431578	0.250 25.0	0.501 50.1	1.00	5.01	10.0
MFS_M4		L1ID	36993 3392053	74399 6755284	146111	696263	1527454	0.245 24.5	0.491 49.1	0.982	4.91	9.82
MFS_N4		L1ID	47121 3483893	94642 +++++	179924	836694	1648528	0.249 24.9	0.498 +++++	0.995	4.98	9.95
MFS_N5		L1ID	41444 3703732	83147 +++++	168541	840493	1789253	0.252 25.2	0.505 +++++	1.01	5.05	10.1
13C3 HFPO-DA	13PF OA	Ave	630232 620002	688476 704345	664135	625747	678213	5.00 5.00	5.00 5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
L1ID = Linear 1/conc IsoDil

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-90799-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-15.6 -6.3	-7.6	2.9	9.6	10.1	6.9	50 30	30	30	30	30	30
MFS_M3	-10.5 -5.0	-4.9	-0.9	8.3	7.4	5.7	50 30	30	30	30	30	30
MFS_N3	-4.1 -4.3	-8.8	0.1	4.7	7.3	5.0	50 30	30	30	30	30	30
MFS_M4	-11.9 -6.1	-7.6	1.1	7.7	9.7	7.0	50 30	30	30	30	30	30
MFS_N4	-14.4 ++++	-3.4	5.6	12.7	3.3	-3.9	50	30	30	30	30	30
MFS_N5	-2.9 ++++	-7.1	0.0	7.8	6.1	-3.8	50	30	30	30	30	30
13C3 HFPO-DA	-0.6						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 05-Aug-2022 08:53:16 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:23

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.387	-0.002	0.877	630232	4.97	99.4	2294
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.996	0.002		3141195	5.00		4882
3 MFS_N2	461.00 > 367.00	5.242	5.239	0.003	1.196	95417	0.2035	84.4	1392
4 MFS_M3	577.00 > 483.00	5.854	5.849	0.005	1.335	76048	0.2202	89.5	446
5 MFS_N3	627.00 > 533.00	6.039	6.036	0.003	1.377	82777	0.2402	95.9	1464
6 MFS_M4	743.00 > 649.00	6.437	6.439	-0.002	1.468	36993	0.2162	88.1	1139
7 MFS_N4	793.00 > 699.00	6.568	6.565	0.003	1.498	47121	0.2129	85.6	1240
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.583	41444	0.2451	97.1	1814

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d

Injection Date: 05-Aug-2022 08:53:16

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

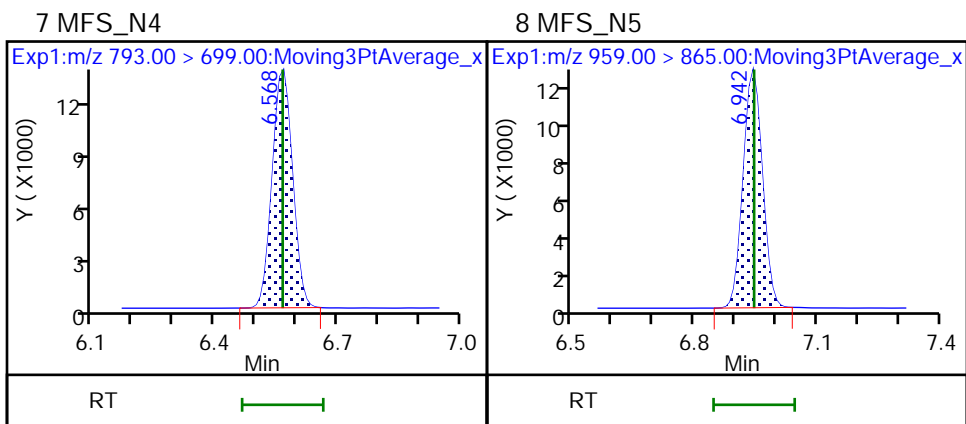
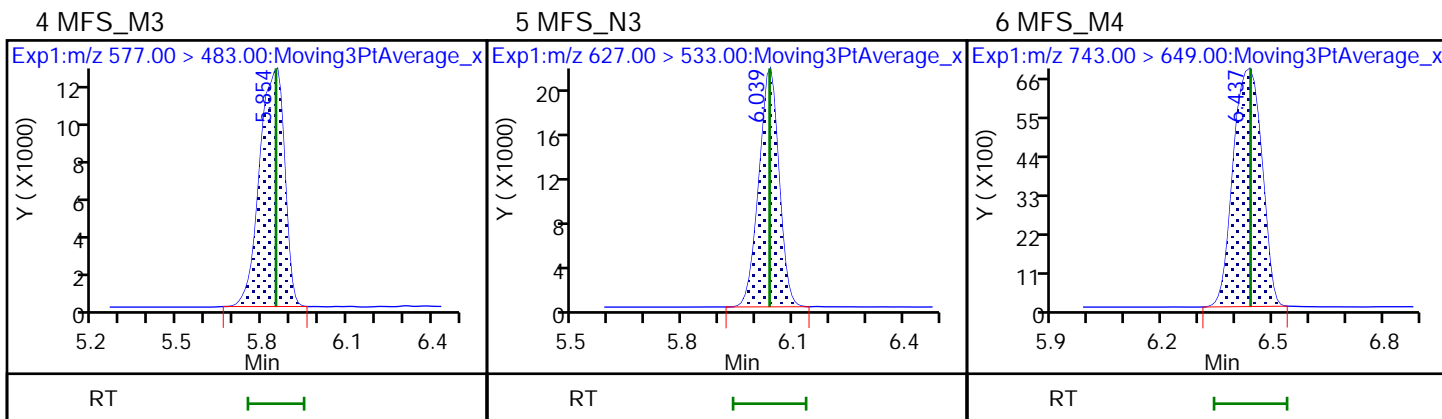
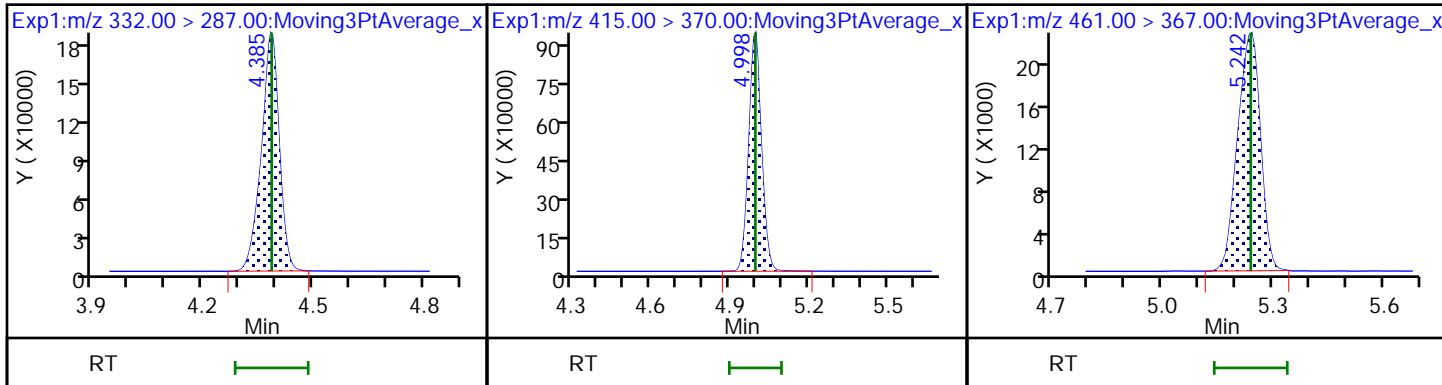
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 05-Aug-2022 09:05:51 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:17

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.391	4.387	0.004	0.878	688476	5.11	102	2607
* 2 13C2 PFOA	415.00 > 370.00	5.000	4.996	0.004		3333798	5.00		4432
3 MFS_N2	461.00 > 367.00	5.244	5.239	0.005	1.194	192513	0.4452	92.4	2755
4 MFS_M3	577.00 > 483.00	5.848	5.849	-0.001	1.332	152139	0.4681	95.1	712
5 MFS_N3	627.00 > 533.00	6.043	6.036	0.007	1.376	160319	0.4566	91.2	2373
6 MFS_M4	743.00 > 649.00	6.441	6.439	0.002	1.467	74399	0.4537	92.4	1695
7 MFS_N4	793.00 > 699.00	6.572	6.565	0.007	1.497	94642	0.4809	96.6	1980
8 MFS_N5	959.00 > 865.00	6.946	6.944	0.002	1.582	83147	0.4689	92.9	2585

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d

Injection Date: 05-Aug-2022 09:05:51

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

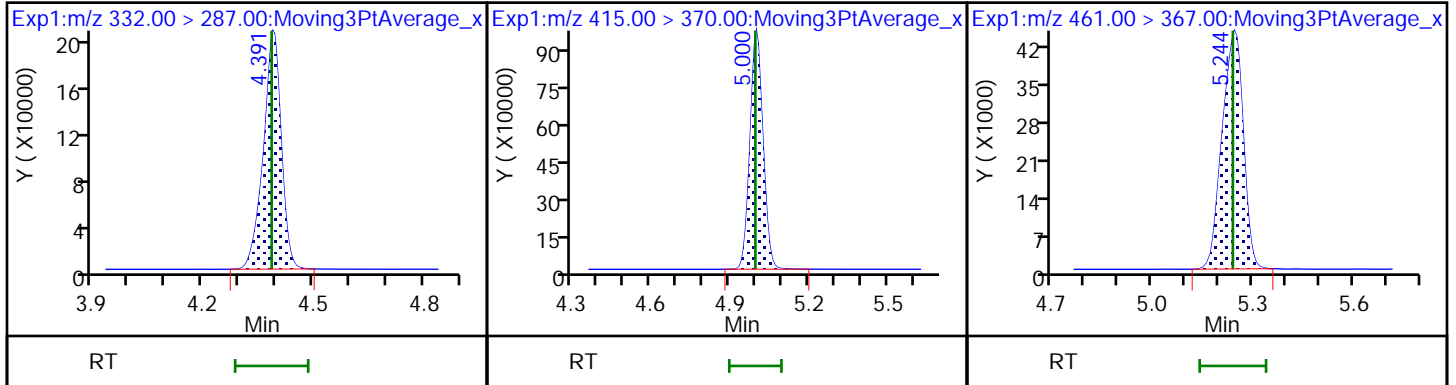
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

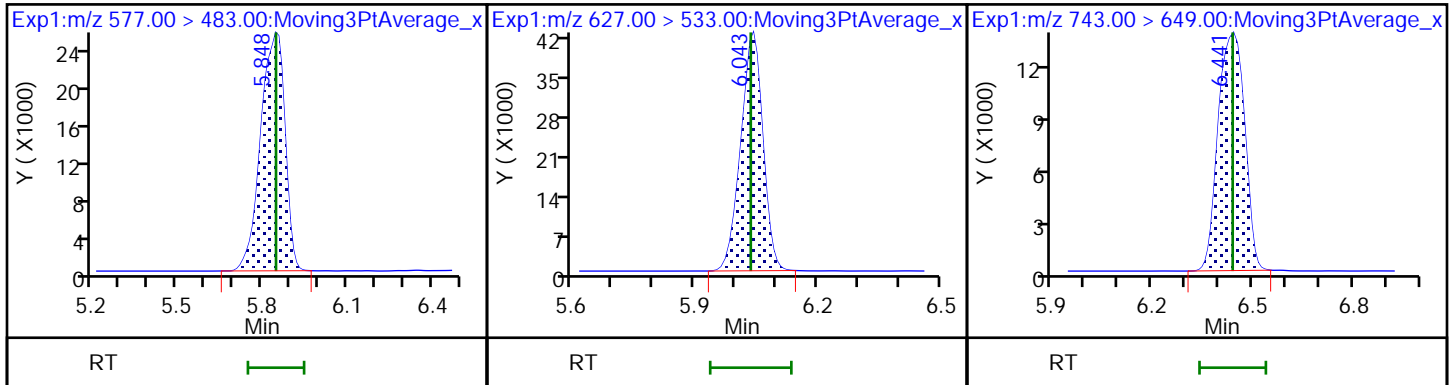
3 MFS_N2



4 MFS_M3

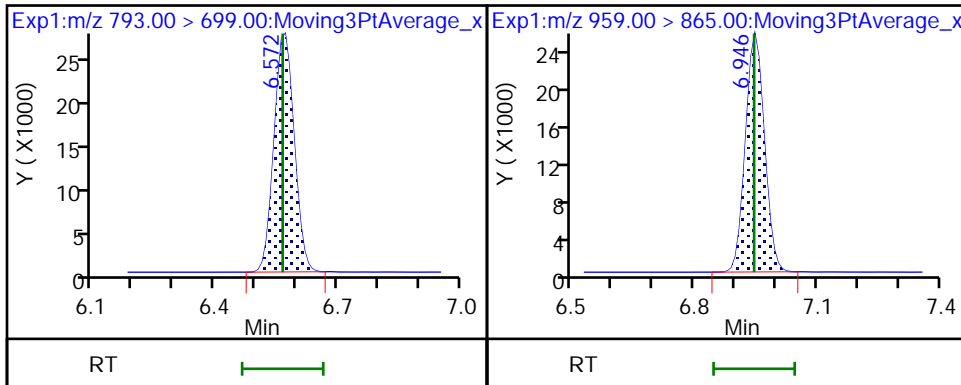
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 05-Aug-2022 09:18:28 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:37 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:13

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.387	4.387	0.0	0.878	664135	4.90	98.0	2525
* 2 13C2 PFOA	415.00 > 370.00	4.997	4.996	0.001		3355597	5.00		5097
3 MFS_N2	461.00 > 367.00	5.238	5.239	-0.001	1.194	378434	0.99	103	4806
4 MFS_M3	577.00 > 483.00	5.849	5.849	0.0	1.333	283357	0.9762	99.1	1154
5 MFS_N3	627.00 > 533.00	6.036	6.036	0.0	1.376	324662	1.00	100	3444
6 MFS_M4	743.00 > 649.00	6.442	6.439	0.003	1.468	146111	0.99	101	2437
7 MFS_N4	793.00 > 699.00	6.564	6.565	-0.001	1.496	179924	1.05	106	3115
8 MFS_N5	959.00 > 865.00	6.945	6.944	0.001	1.583	168541	1.01	100	4762

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d

Injection Date: 05-Aug-2022 09:18:28

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

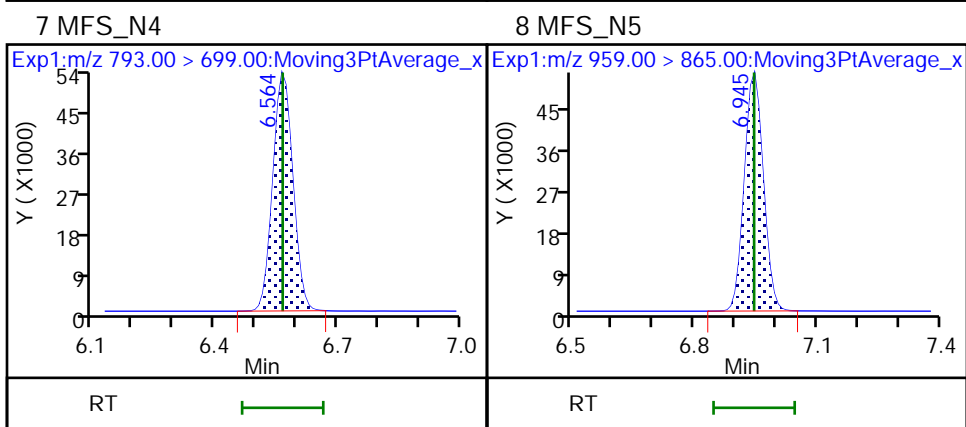
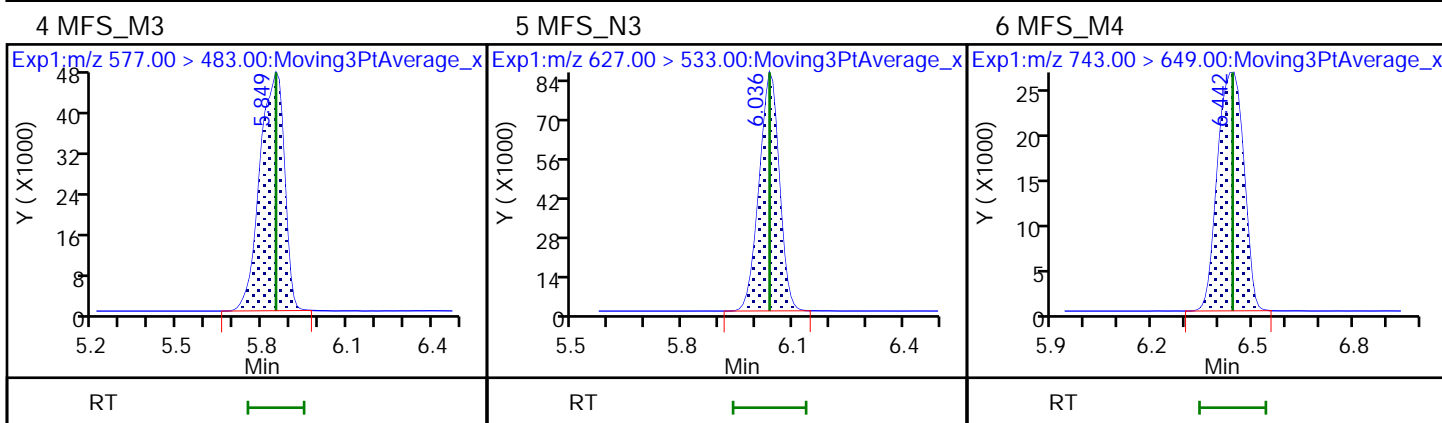
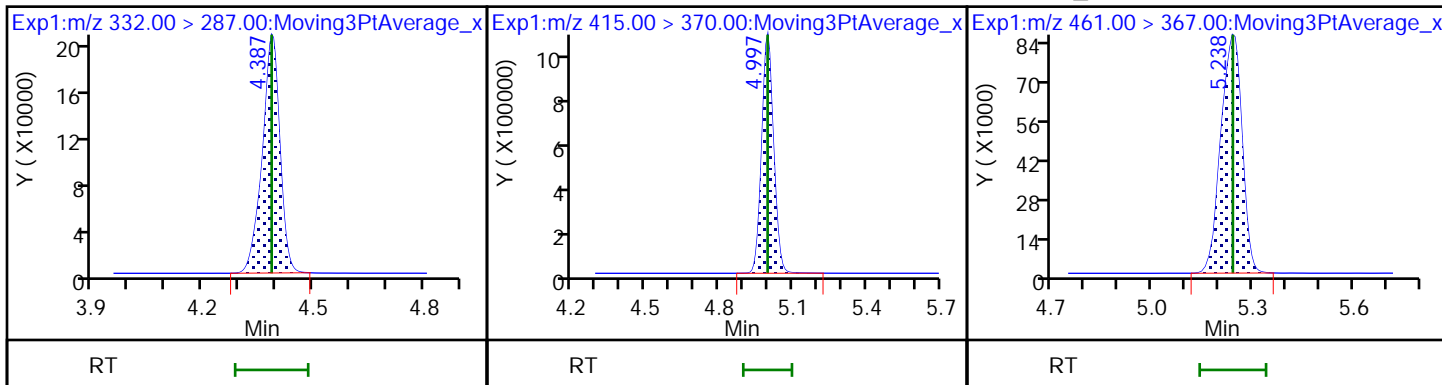
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 05-Aug-2022 09:31:03 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:38 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.384	4.387	-0.003	0.878	625747	4.81	96.2	2565
* 2 13C2 PFOA	415.00 > 370.00	4.991	4.996	-0.005		3222764	5.00		4580
3 MFS_N2	461.00 > 367.00	5.235	5.239	-0.004	1.194	1780473	5.28	110	15275
4 MFS_M3	577.00 > 483.00	5.843	5.849	-0.006	1.333	1370537	5.33	108	2789
5 MFS_N3	627.00 > 533.00	6.030	6.036	-0.006	1.375	1550403	5.24	105	4929
6 MFS_M4	743.00 > 649.00	6.436	6.439	-0.003	1.468	696263	5.29	108	4138
7 MFS_N4	793.00 > 699.00	6.558	6.565	-0.007	1.496	836694	5.61	113	5907
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.583	840493	5.44	108	7952

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d

Injection Date: 05-Aug-2022 09:31:03

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

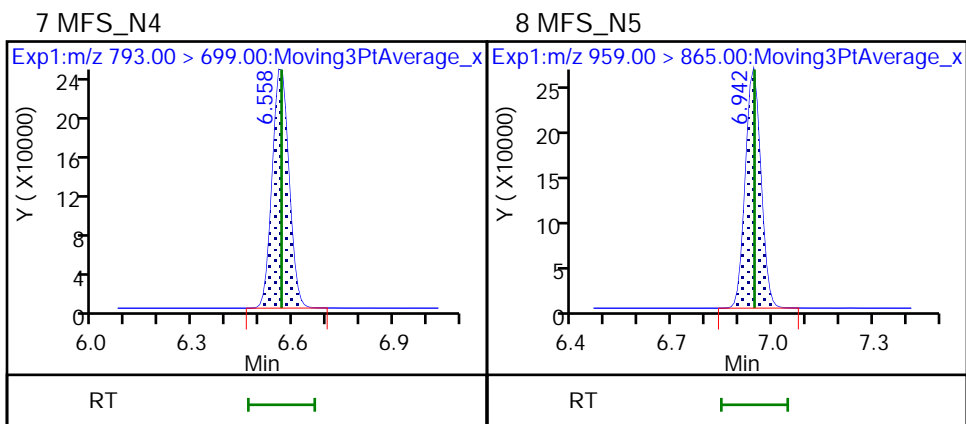
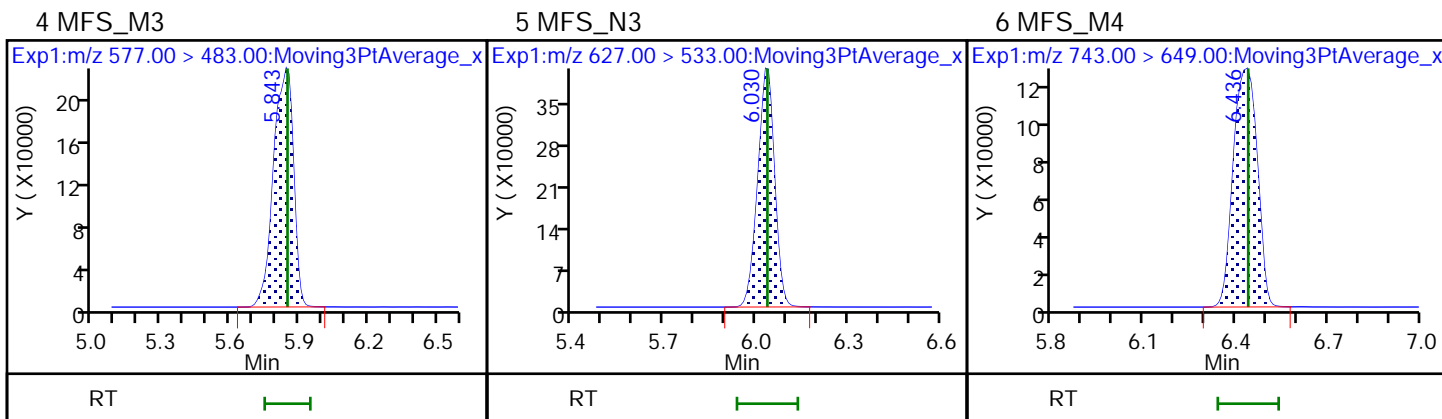
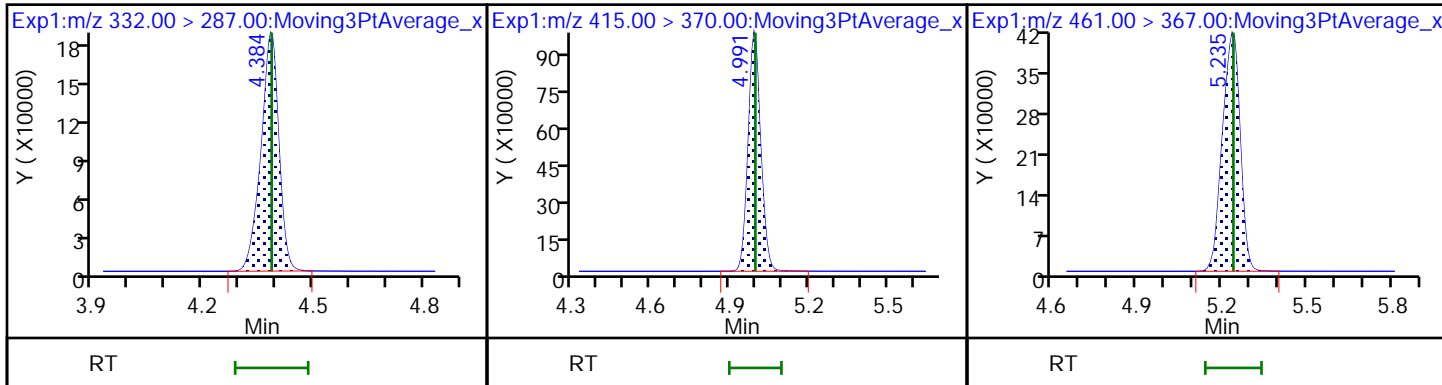
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 05-Aug-2022 09:43:40 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:48

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									
332.00 > 287.00	4.385	4.387	-0.002	0.879	678213	5.06	101	2556	
* 2 13C2 PFOA									
415.00 > 370.00	4.992	4.996	-0.004		3317293	5.00		4716	
3 MFS_N2									
461.00 > 367.00	5.236	5.239	-0.003	1.194	3848185	10.6	110	21415	
4 MFS_M3									
577.00 > 483.00	5.844	5.849	-0.005	1.333	2924780	10.6	107	3270	
5 MFS_N3									
627.00 > 533.00	6.031	6.036	-0.005	1.375	3431578	10.7	107	5275	
6 MFS_M4									
743.00 > 649.00	6.436	6.439	-0.003	1.467	1527454	10.8	110	5013	
7 MFS_N4									
793.00 > 699.00	6.566	6.565	0.001	1.497	1648528	10.3	103	6095	
8 MFS_N5									
959.00 > 865.00	6.946	6.944	0.002	1.584	1789253	10.7	106	10413	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d

Injection Date: 05-Aug-2022 09:43:40

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

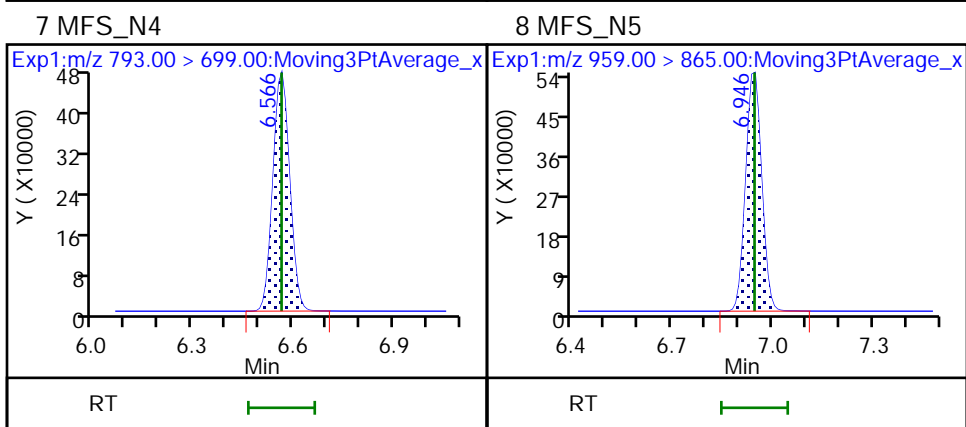
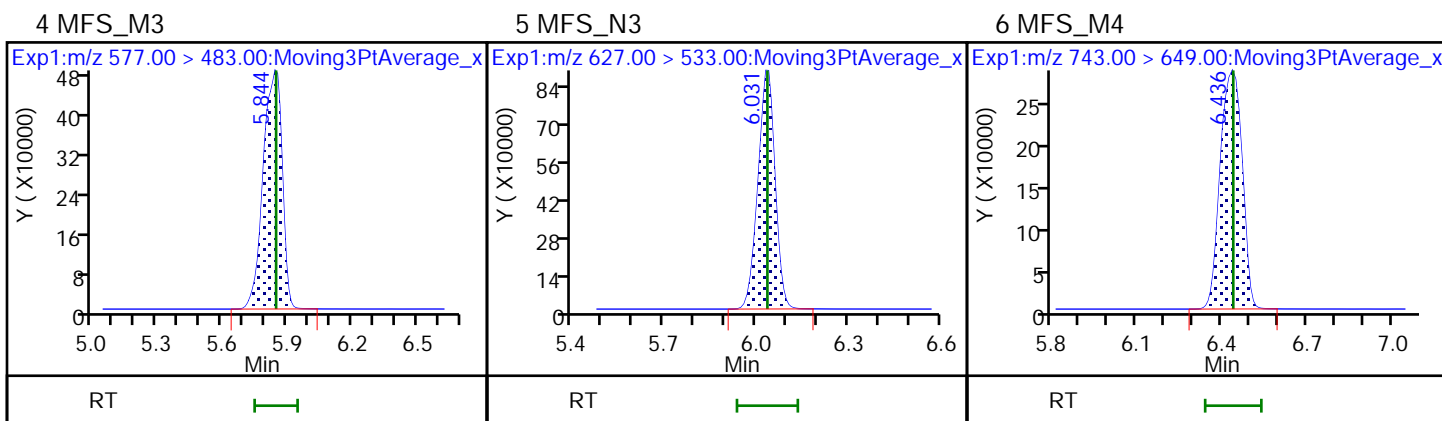
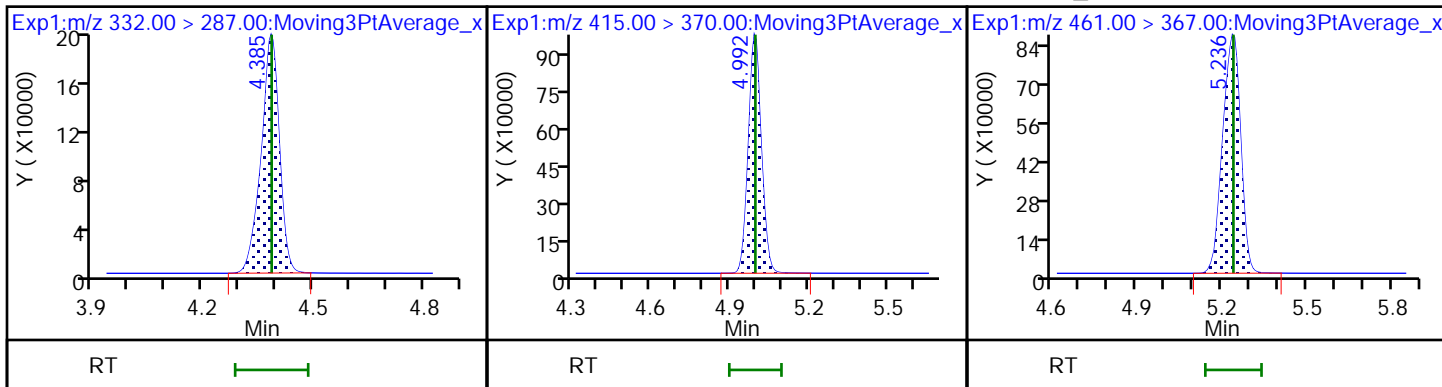
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 05-Aug-2022 09:56:17 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:53

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.388	4.387	0.001	0.878	620002	4.93	98.7	2415
* 2 13C2 PFOA	415.00 > 370.00	4.997	4.996	0.001		3111884	5.00		4706
3 MFS_N2	461.00 > 367.00	5.238	5.239	-0.001	1.194	8499793	25.8	107	25356
4 MFS_M3	577.00 > 483.00	5.848	5.849	-0.001	1.333	6548749	26.0	106	3823
5 MFS_N3	627.00 > 533.00	6.035	6.036	-0.001	1.375	7657320	26.3	105	5918
6 MFS_M4	743.00 > 649.00	6.442	6.439	0.003	1.468	3392053	26.3	107	5897
7 MFS_N4	793.00 > 699.00	6.564	6.565	-0.001	1.496	3483893	23.9	96.1	6490
8 MFS_N5	959.00 > 865.00	6.947	6.944	0.003	1.583	3703732	24.3	96.2	10962

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d

Injection Date: 05-Aug-2022 09:56:17

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

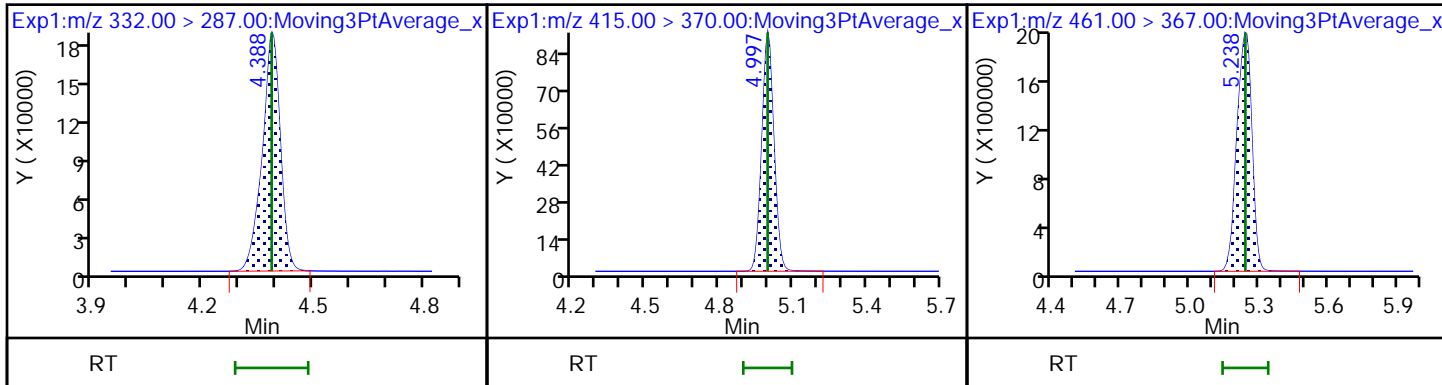
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

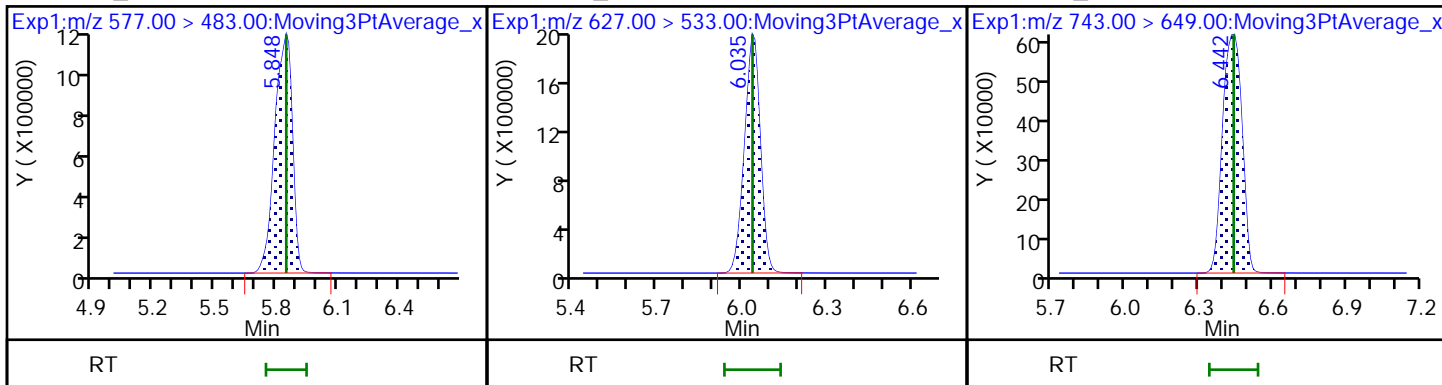
3 MFS_N2



4 MFS_M3

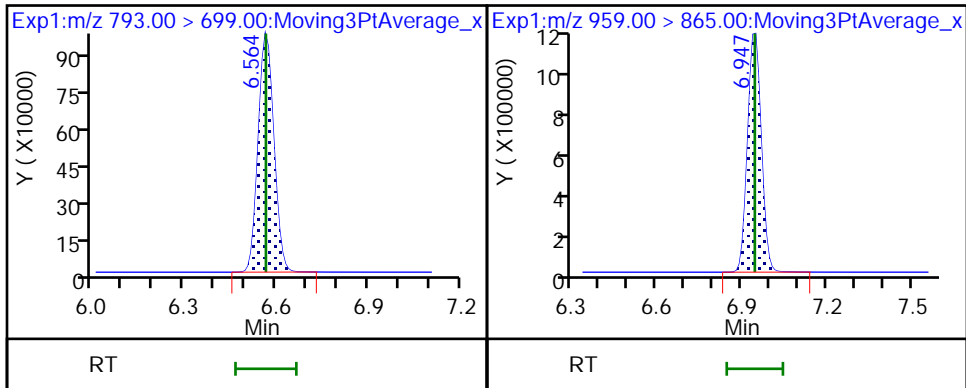
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 05-Aug-2022 10:08:54 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.387	0.002	0.878	704345	5.21	104	2940
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.996	0.002		3345907	5.00		5056
3 MFS_N2	461.00 > 367.00	5.242	5.239	0.003	1.194	16896802	45.1	93.7	30163
4 MFS_M3	577.00 > 483.00	5.854	5.849	0.005	1.334	13354811	46.8	95.0	4061
5 MFS_N3	627.00 > 533.00	6.039	6.036	0.003	1.376	15833576	47.9	95.7	8974
6 MFS_M4	743.00 > 649.00	6.437	6.439	-0.002	1.467	6755284	46.1	93.9	5470
7 MFS_N4	793.00 > 699.00	6.567	6.565	0.002	1.496	6411636	38.8	78.0	9007
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.582	6790396	39.2	77.6	10490

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Injection Date: 05-Aug-2022 10:08:54

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

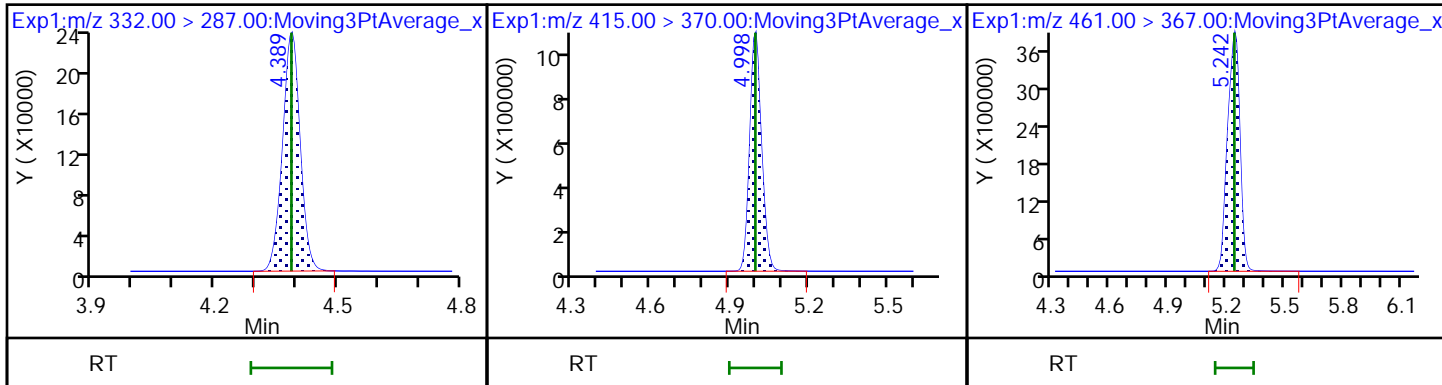
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

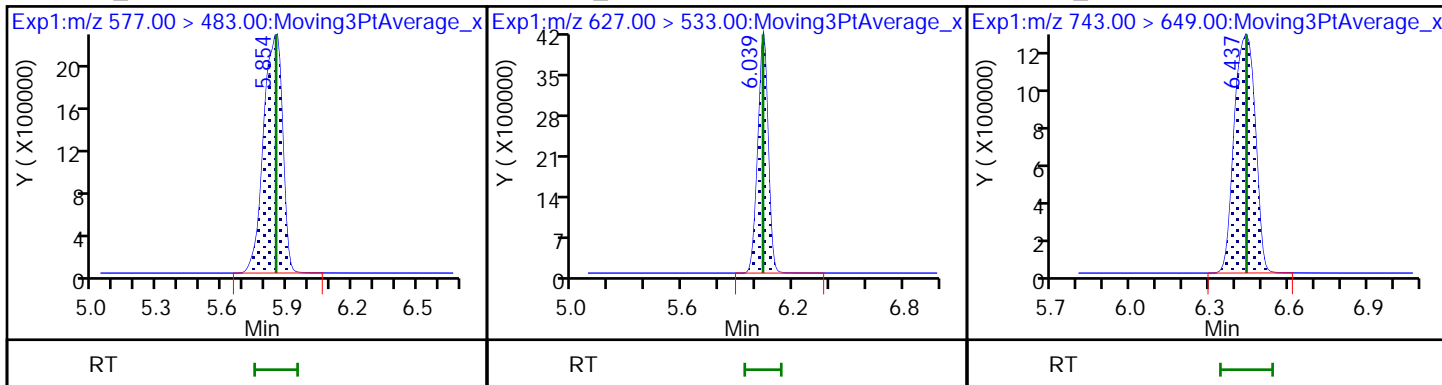
3 MFS_N2



4 MFS_M3

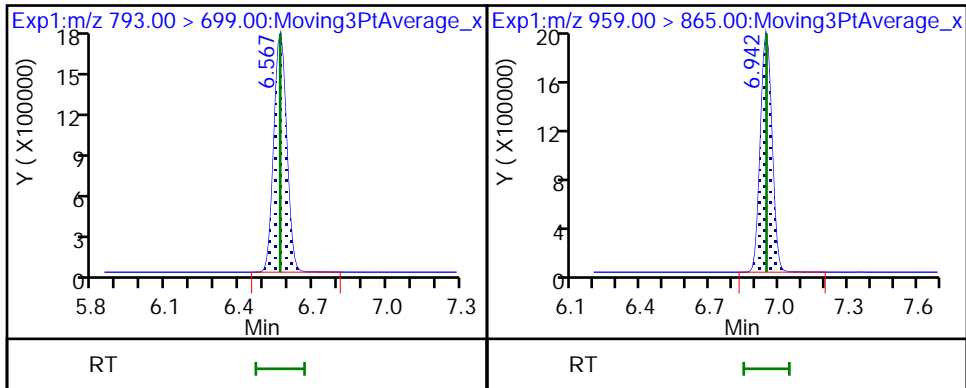
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



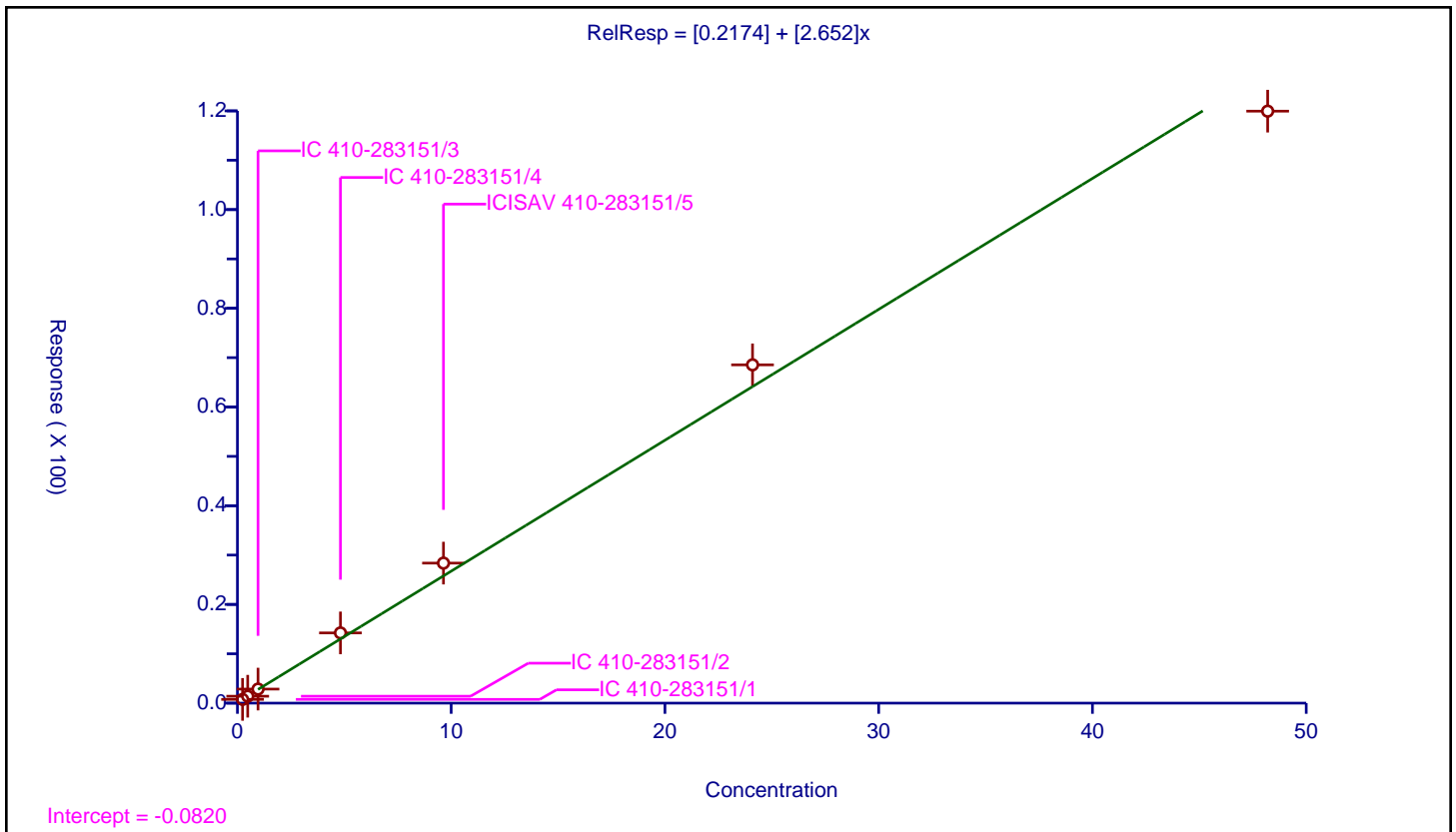
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2174
Slope:	2.652

Error Coefficients	
Standard Error:	8670000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.240983	0.756999	5.0	630232.0	3.141298	Y
2	IC 410-283151/2	0.481966	1.39811	5.0	688476.0	2.900849	Y
3	IC 410-283151/3	0.963932	2.849074	5.0	664135.0	2.955681	Y
4	IC 410-283151/4	4.819658	14.22678	5.0	625747.0	2.951824	Y
5	ICISAV 410-283151/5	9.639316	28.370033	5.0	678213.0	2.943158	Y
6	IC 410-283151/6	24.098289	68.546497	5.0	620002.0	2.844455	Y
7	IC 410-283151/7	48.196578	119.946915	5.0	704345.0	2.488702	Y



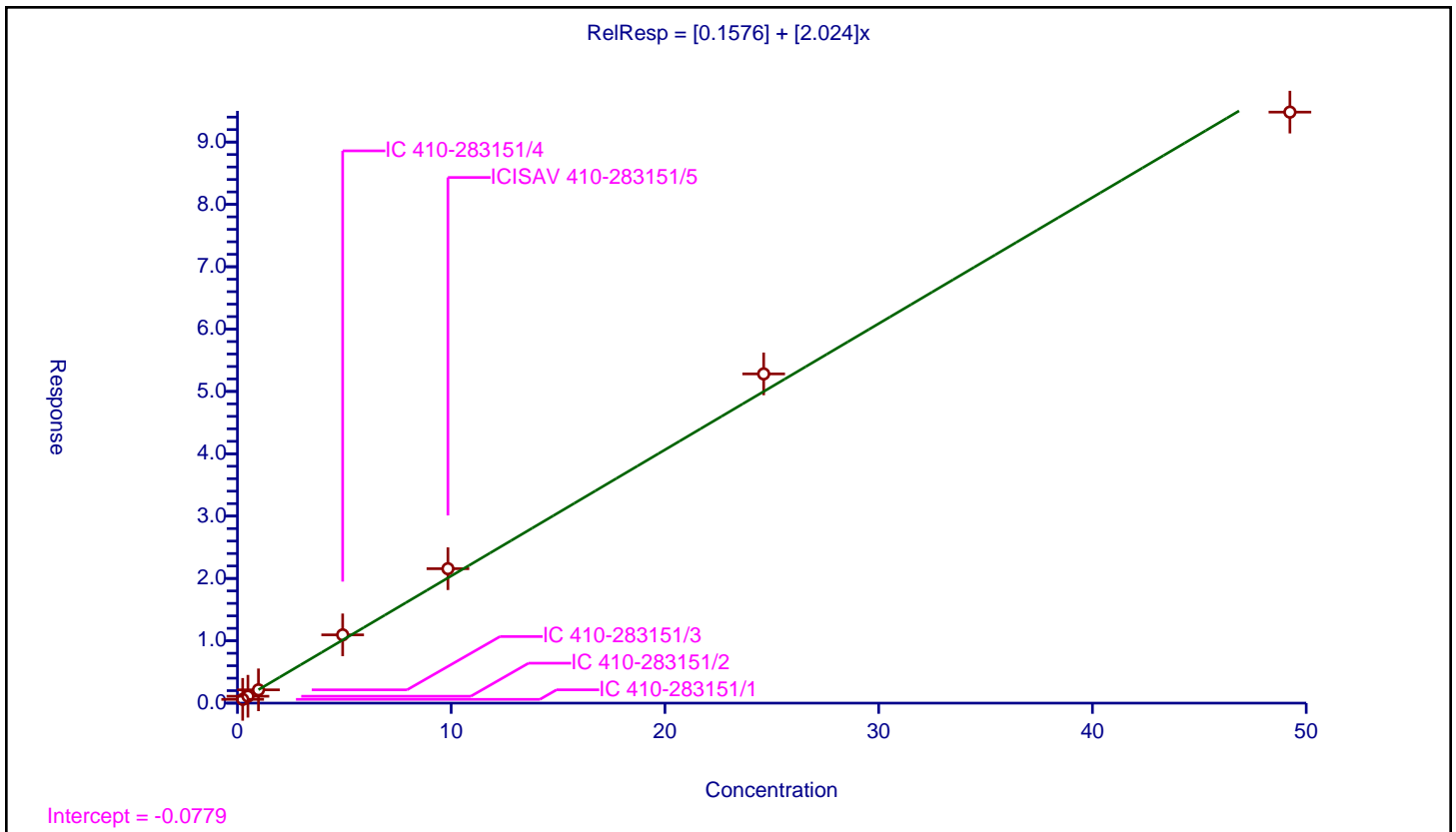
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1576
Slope:	2.024

Error Coefficients	
Standard Error:	6810000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.246191	0.603333	5.0	630232.0	2.450668	Y
2	IC 410-283151/2	0.492383	1.104897	5.0	688476.0	2.243979	Y
3	IC 410-283151/3	0.984766	2.133279	5.0	664135.0	2.166281	Y
4	IC 410-283151/4	4.923828	10.951207	5.0	625747.0	2.224125	Y
5	ICISAV 410-283151/5	9.847656	21.5624	5.0	678213.0	2.189597	Y
6	IC 410-283151/6	24.619141	52.812322	5.0	620002.0	2.145173	Y
7	IC 410-283151/7	49.238282	94.803051	5.0	704345.0	1.925393	Y



Calibration

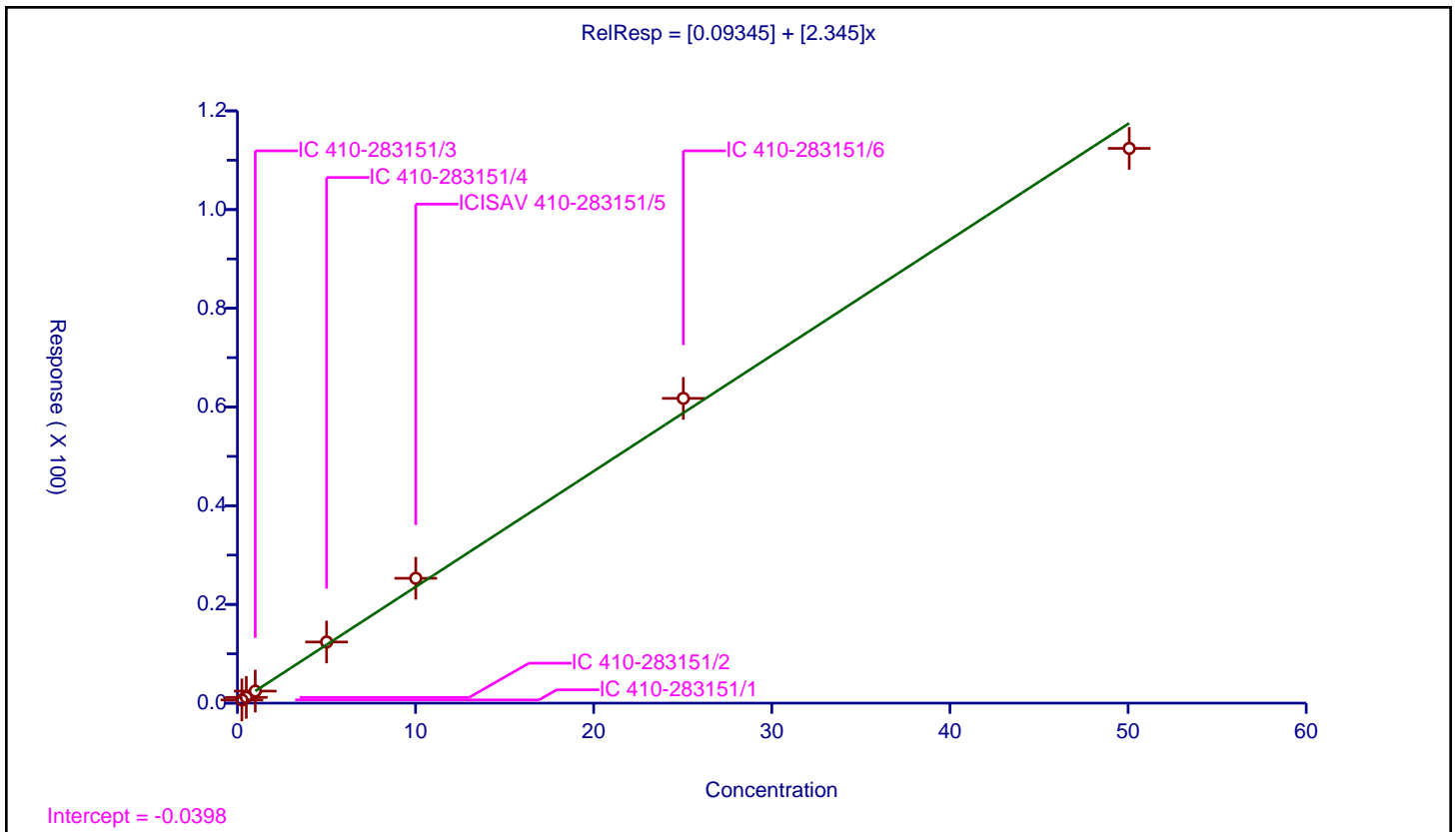
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.09345
Slope:	2.345

Error Coefficients	
Standard Error:	8050000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.250322	0.656718	5.0	630232.0	2.623493	Y
2	IC 410-283151/2	0.500644	1.164303	5.0	688476.0	2.32561	Y
3	IC 410-283151/3	1.001289	2.444247	5.0	664135.0	2.441101	Y
4	IC 410-283151/4	5.006444	12.388417	5.0	625747.0	2.474494	Y
5	ICISAV 410-283151/5	10.012888	25.298675	5.0	678213.0	2.526611	Y
6	IC 410-283151/6	25.03222	61.752381	5.0	620002.0	2.466916	Y
7	IC 410-283151/7	50.064439	112.399293	5.0	704345.0	2.245092	Y



Calibration

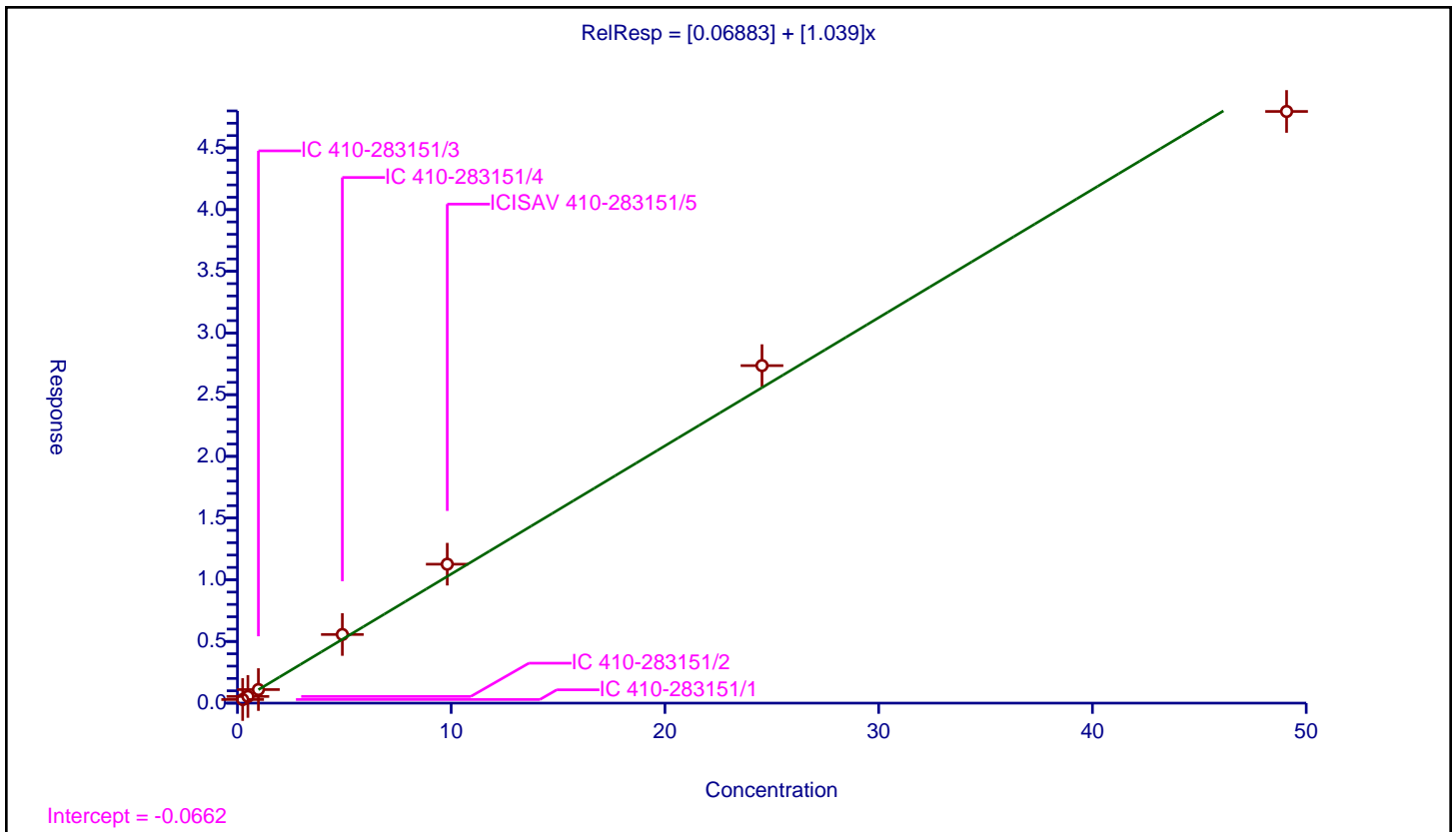
/ MFS_M4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06883
Slope:	1.039

Error Coefficients	
Standard Error:	3460000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.245407	0.293487	5.0	630232.0	1.195919	Y
2	IC 410-283151/2	0.490814	0.540317	5.0	688476.0	1.100857	Y
3	IC 410-283151/3	0.981629	1.10001	5.0	664135.0	1.120597	Y
4	IC 410-283151/4	4.908144	5.563455	5.0	625747.0	1.133515	Y
5	ICISAV 410-283151/5	9.816288	11.260872	5.0	678213.0	1.147162	Y
6	IC 410-283151/6	24.540719	27.355178	5.0	620002.0	1.114685	Y
7	IC 410-283151/7	49.081438	47.954369	5.0	704345.0	0.977037	Y



Calibration

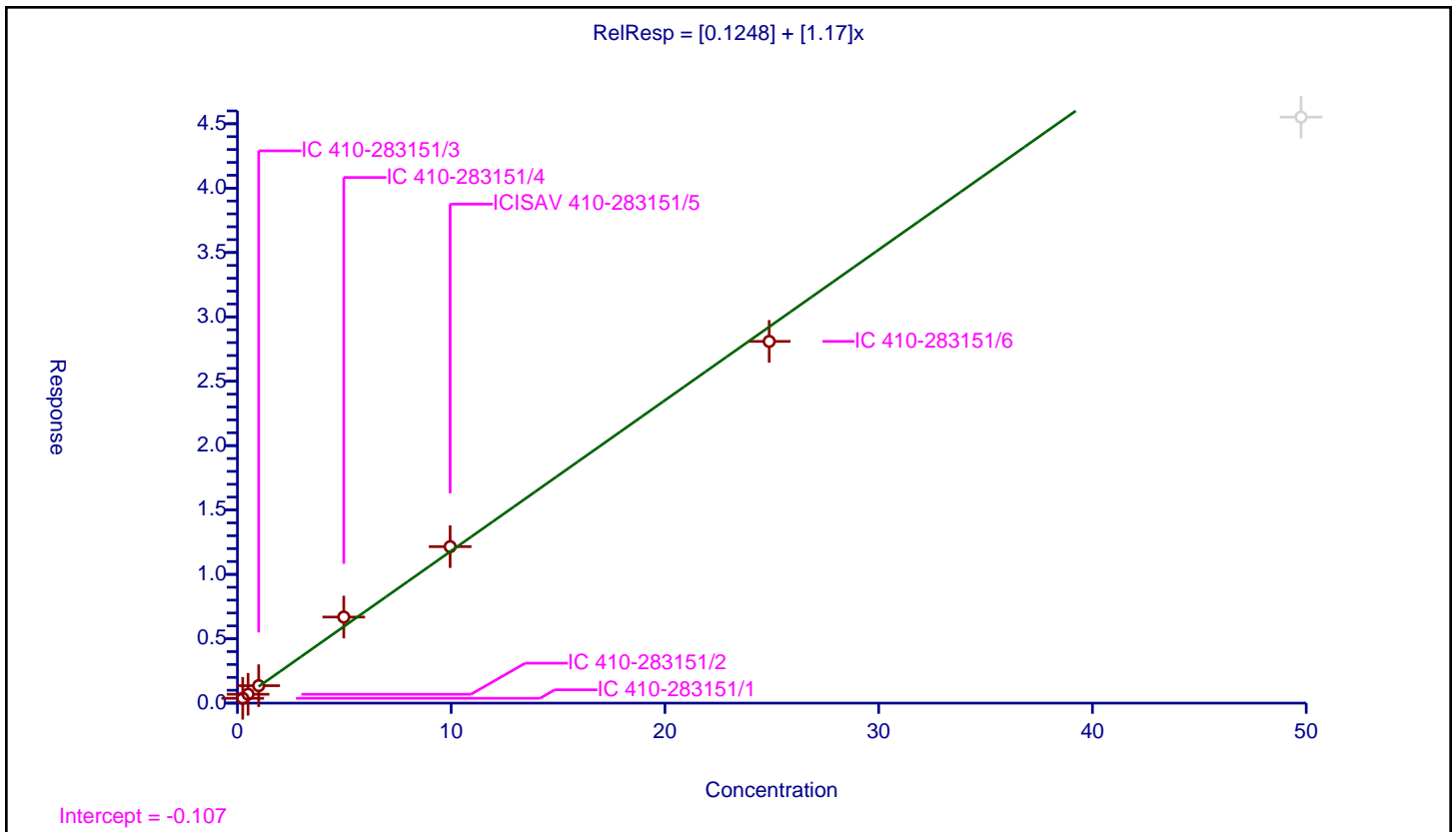
/ MFS_N4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1248
Slope:	1.17

Error Coefficients	
Standard Error:	1970000
Relative Standard Error:	10.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.248788	0.373839	5.0	630232.0	1.502639	Y
2	IC 410-283151/2	0.497576	0.68733	5.0	688476.0	1.381356	Y
3	IC 410-283151/3	0.995152	1.354574	5.0	664135.0	1.361173	Y
4	IC 410-283151/4	4.975759	6.685561	5.0	625747.0	1.343626	Y
5	ICISAV 410-283151/5	9.951518	12.153468	5.0	678213.0	1.221268	Y
6	IC 410-283151/6	24.878795	28.095821	5.0	620002.0	1.129308	Y
7	IC 410-283151/7	49.75759	45.514883	5.0	704345.0	0.914732	N



Calibration

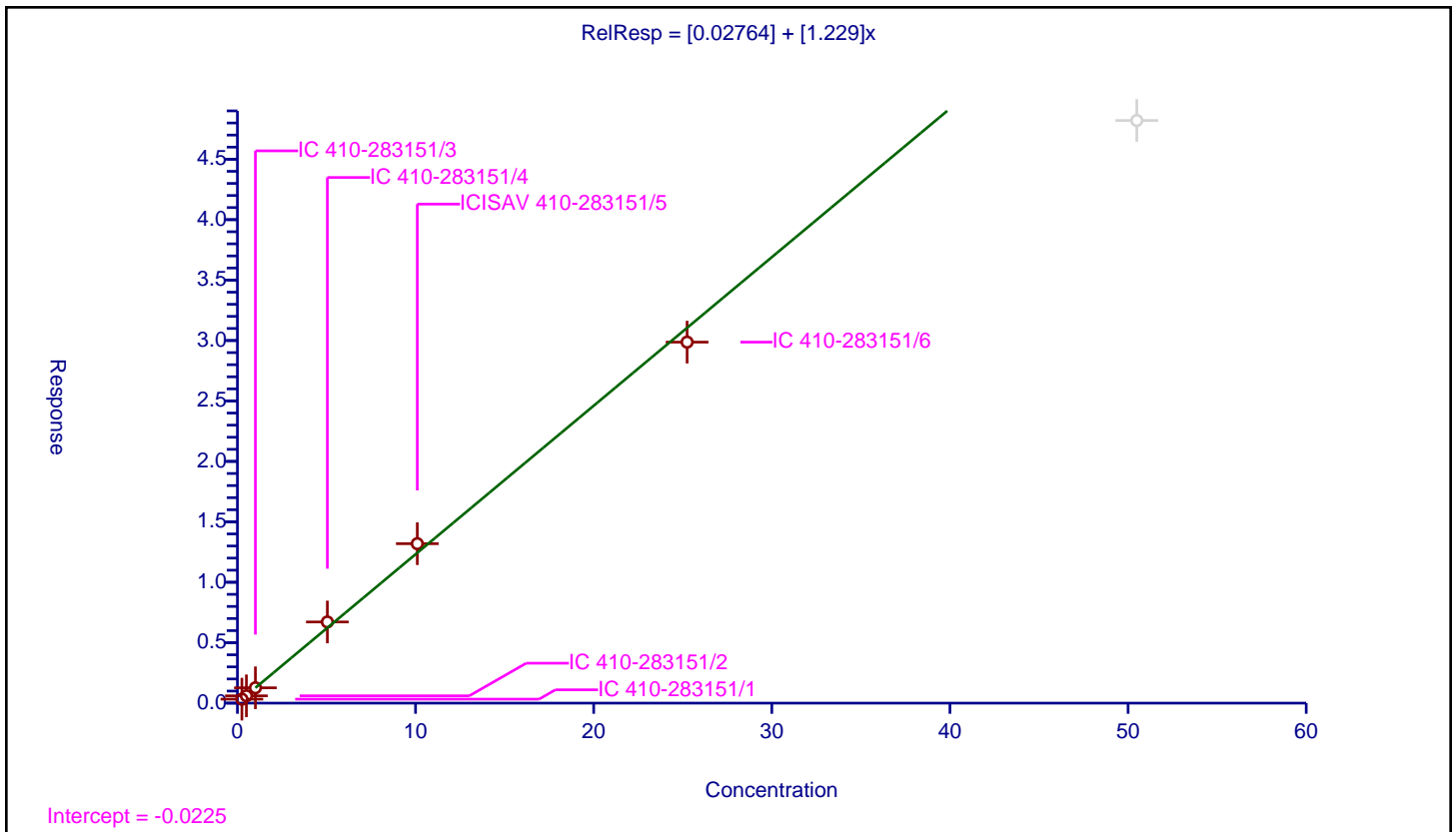
/ MFS_N5

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.02764
Slope:	1.229

Error Coefficients	
Standard Error:	2100000
Relative Standard Error:	6.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.252449	0.3288	5.0	630232.0	1.302441	Y
2	IC 410-283151/2	0.504897	0.603848	5.0	688476.0	1.195982	Y
3	IC 410-283151/3	1.009795	1.268876	5.0	664135.0	1.256569	Y
4	IC 410-283151/4	5.048973	6.715917	5.0	625747.0	1.330155	Y
5	ICISAV 410-283151/5	10.097945	13.190937	5.0	678213.0	1.306299	Y
6	IC 410-283151/6	25.244863	29.86871	5.0	620002.0	1.18316	Y
7	IC 410-283151/7	50.489726	48.203622	5.0	704345.0	0.954721	N



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: ICV 410-283151/9 Calibration Date: 08/05/2022 10:34
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG05MFSCAL-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.873		0.962	0.964	-0.2	30.0
MFS_M3	L1ID		2.145		0.966	0.985	-1.9	30.0
MFS_N3	L1ID		2.383		0.978	1.00	-2.3	30.0
MFS_M4	L1ID		1.127		0.998	0.982	1.7	30.0
MFS_N4	L1ID		1.324		1.02	0.995	2.4	30.0
MFS_N5	L1ID		1.220		0.980	1.01	-2.9	30.0
13C3 HFPO-DA	Ave	0.2019	0.2006		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 05-Aug-2022 10:34:09 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:28:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:23

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.389	-0.004	0.879	685023	4.97	99.4	2627
* 2 13C2 PFOA	415.00 > 370.00	4.990	4.998	-0.008		3414636	5.00		5022
3 MFS_N2	461.00 > 367.00	5.237	5.242	-0.005	1.194	379478	0.9623		1913
4 MFS_M3	577.00 > 483.00	5.846	5.854	-0.008	1.333	289353	0.9657		977
5 MFS_N3	627.00 > 533.00	6.033	6.039	-0.006	1.376	326961	0.9778		1610
6 MFS_M4	743.00 > 649.00	6.436	6.437	-0.001	1.468	151502	1.00		1564
7 MFS_N4	793.00 > 699.00	6.566	6.567	-0.001	1.497	180449	1.02		2539
8 MFS_N5	959.00 > 865.00	6.938	6.942	-0.004	1.582	168796	0.9800		3431

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d

Injection Date: 05-Aug-2022 10:34:09

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

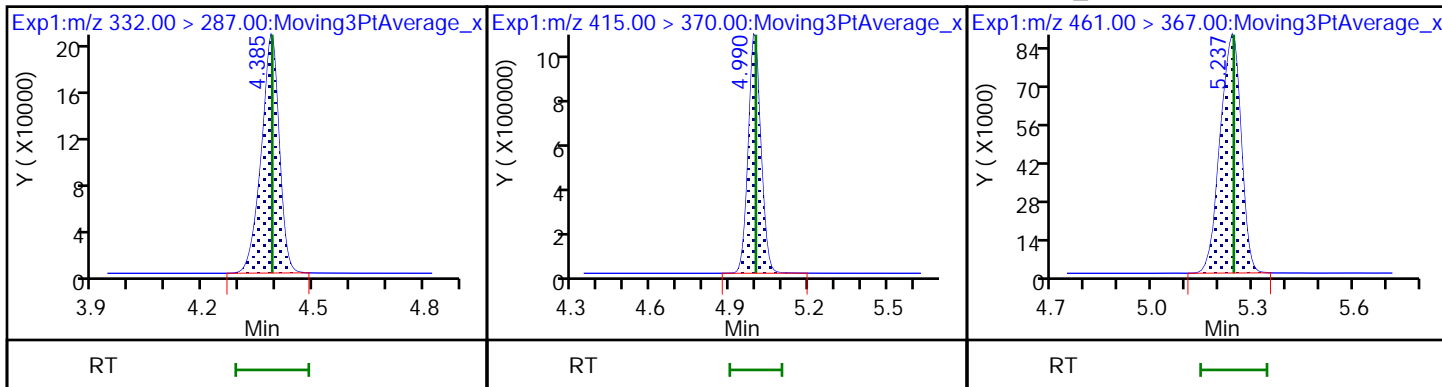
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

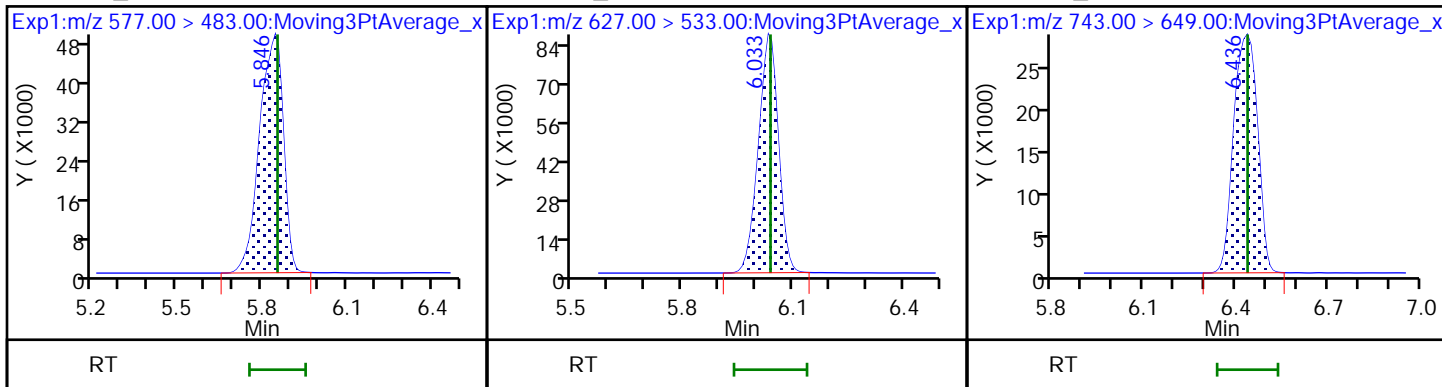
3 MFS_N2



4 MFS_M3

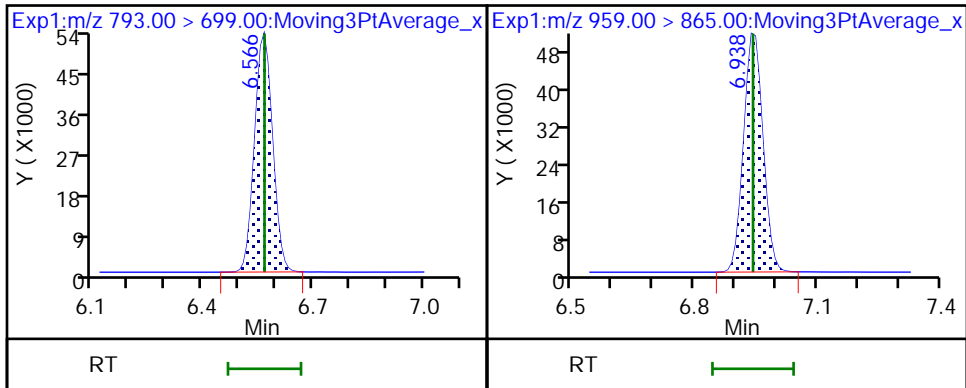
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/1 Calibration Date: 08/05/2022 12:17
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.189		0.208	0.241	-13.8	50.0
MFS_M3	L1ID		2.555		0.233	0.246	-5.4	50.0
MFS_N3	L1ID		2.751		0.254	0.250	1.4	50.0
MFS_M4	L1ID		1.197		0.217	0.245	-11.8	50.0
MFS_N4	L1ID		1.560		0.225	0.249	-9.6	50.0
MFS_N5	L1ID		1.332		0.251	0.252	-0.5	50.0
13C3 HFPO-DA	Ave	0.2019	0.1913		4.74	5.00	-5.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 12:17:41 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:42:49

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.879	630381	4.74	94.7	2978
* 2 13C2 PFOA	415.00 > 370.00	5.007	5.007	0.0		3295947	5.00		5209
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	96880	0.2078	86.2	876
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.331	79314	0.2330	94.6	474
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.373	86836	0.2538	101	1216
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	37045	0.2165	88.2	980
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	48917	0.2250	90.4	1622
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	42401	0.2512	99.5	2158

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d

Injection Date: 05-Aug-2022 12:17:41

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

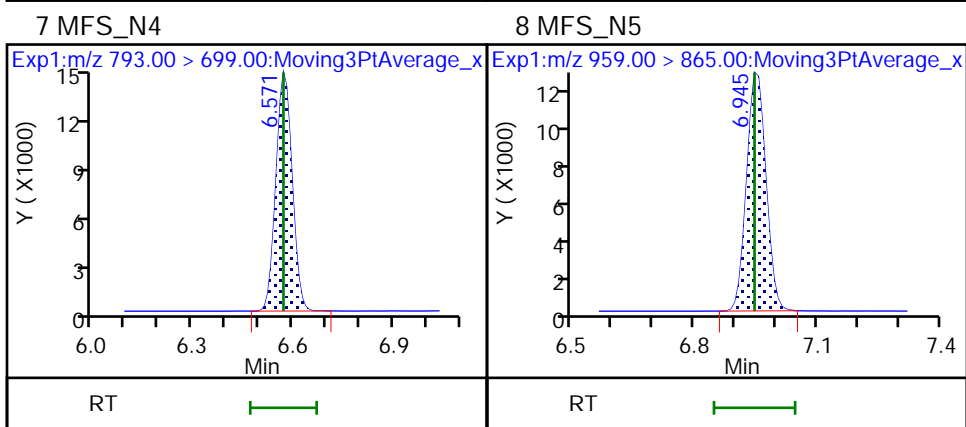
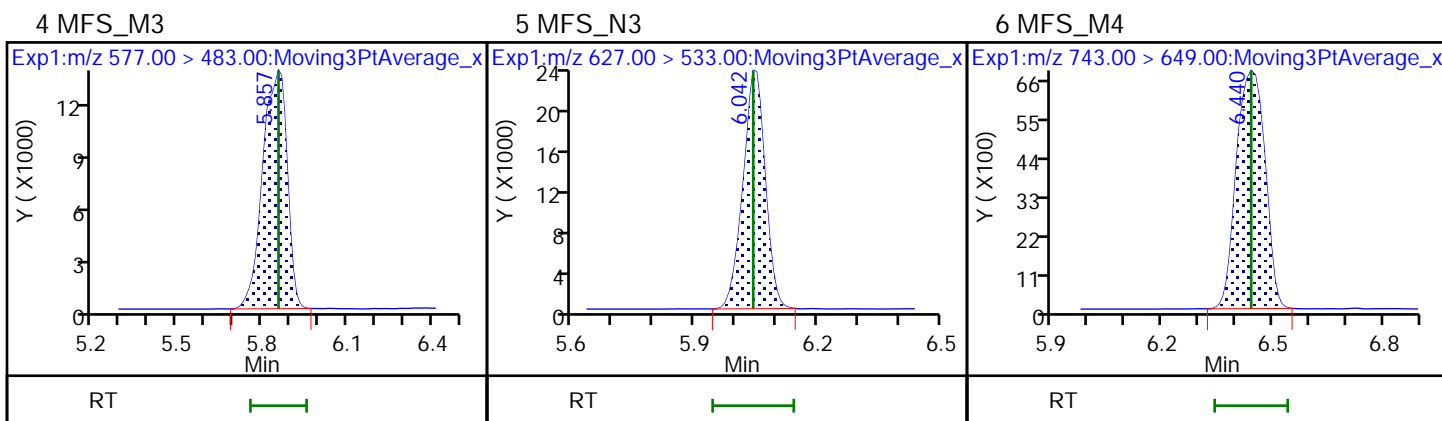
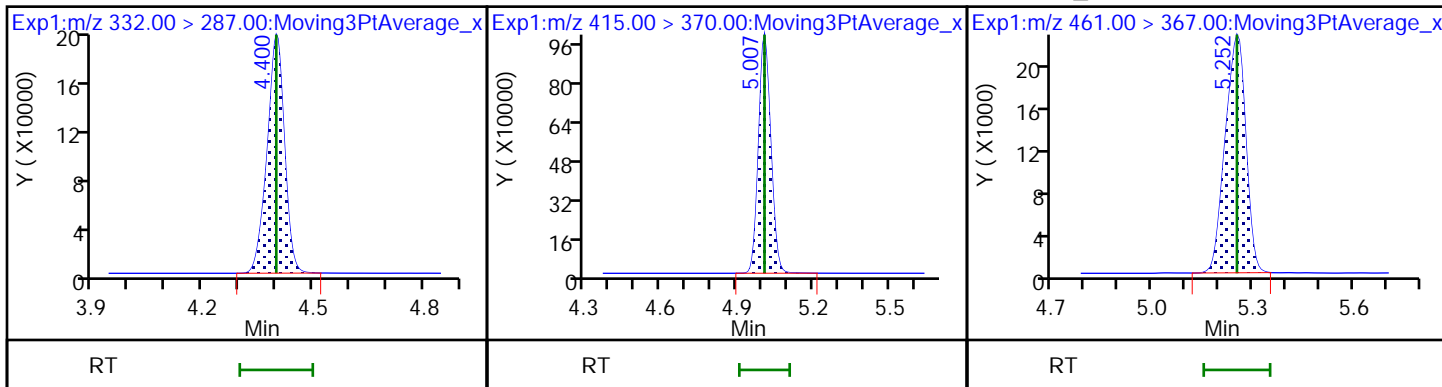
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/7 Calibration Date: 08/05/2022 13:34
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.023		1.02	0.964	5.5	30.0
MFS_M3	L1ID		2.253		1.02	0.985	3.4	30.0
MFS_N3	L1ID		2.539		1.04	1.00	4.3	30.0
MFS_M4	L1ID		1.210		1.08	0.982	9.7	30.0
MFS_N4	L1ID		1.467		1.14	0.995	14.7	30.0
MFS_N5	L1ID		1.305		1.05	1.01	4.0	30.0
13C3 HFPO-DA	Ave	0.2019	0.1900		4.70	5.00	-5.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 13:34:31 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:01

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.392	4.400	-0.008	0.879	625902	4.70	94.1	2222
* 2 13C2 PFOA	415.00 > 370.00	4.997	5.007	-0.010		3294826	5.00		3748
3 MFS_N2	461.00 > 367.00	5.246	5.252	-0.006	1.194	364767	1.02	105	2047
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.334	277784	1.02	103	894 M
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.376	318229	1.04	104	1794
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.466	148695	1.08	110	1960
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.496	182721	1.14	115	2345
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.582	164986	1.05	104	2993

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d

Injection Date: 05-Aug-2022 13:34:31

Instrument ID: 30733

Lims ID: CCV_2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

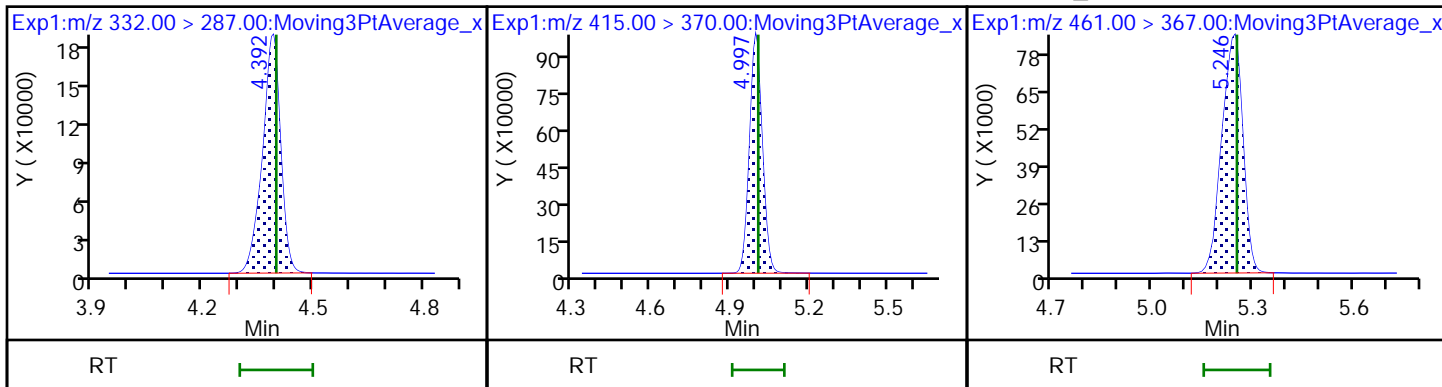
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

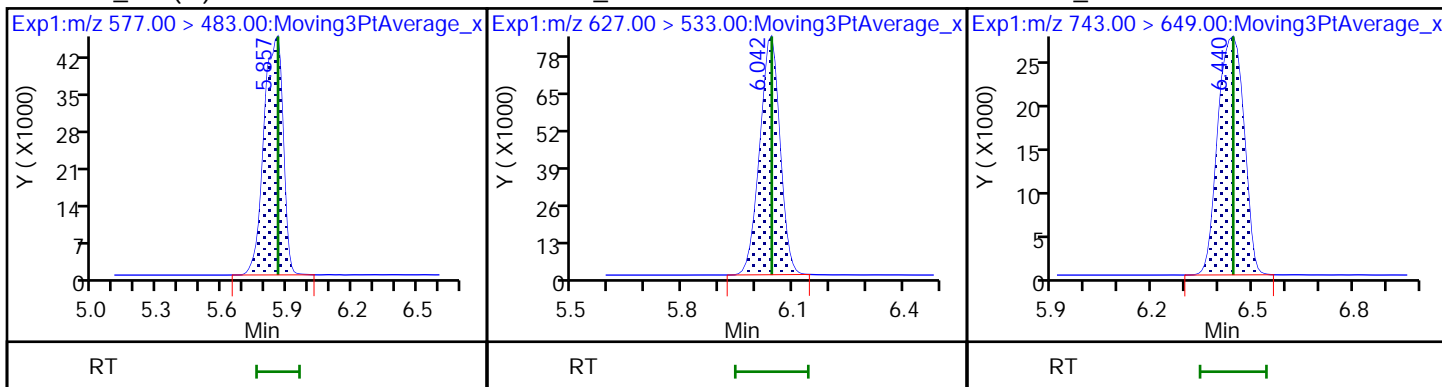
3 MFS_N2



4 MFS_M3 (M)

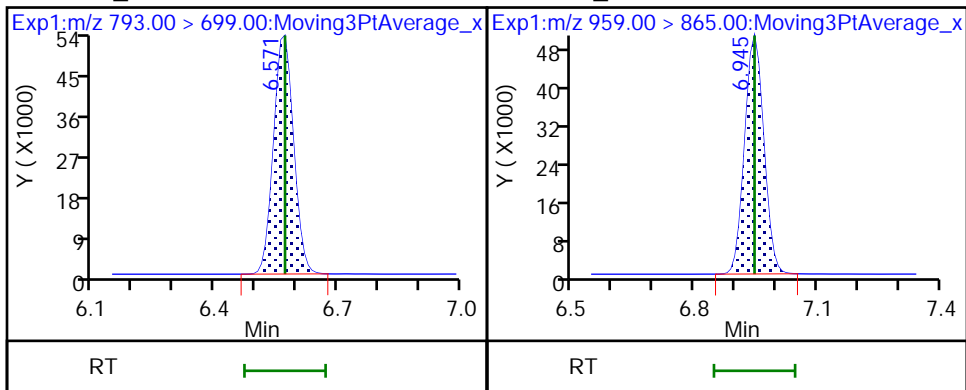
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC

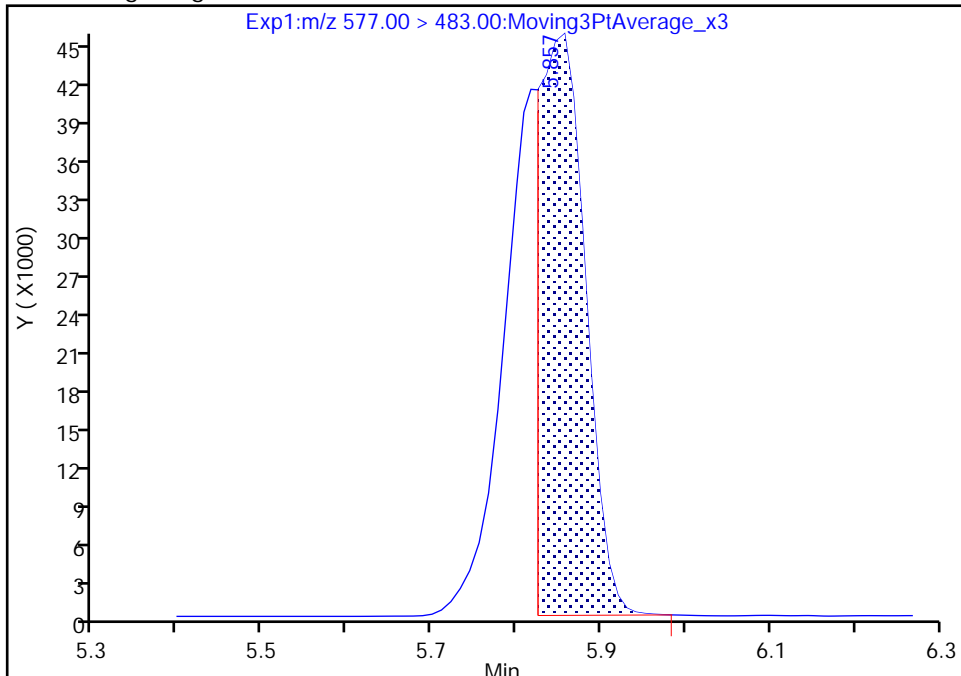
Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d
Injection Date: 05-Aug-2022 13:34:31 Instrument ID: 30733
Lims ID: CCV_2_CAL3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

4 MFS_M3, CAS: STL02874

Signal: 1

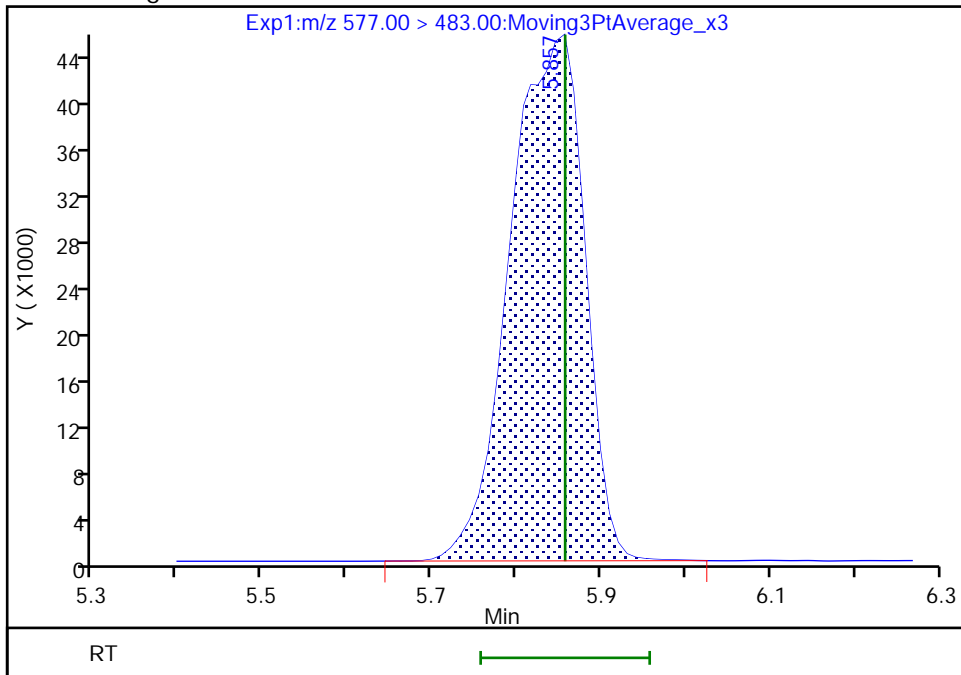
RT: 5.86
Area: 162466
Amount: 0.563400
Amount Units: ng/ml

Processing Integration Results



RT: 5.86
Area: 277784
Amount: 1.018559
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:01:56
Audit Action: Manually Integrated

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/16 Calibration Date: 08/05/2022 15:27
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.908		10.5	9.64	8.8	30.0
MFS_M3	L1ID		2.215		10.7	9.85	8.6	30.0
MFS_N3	L1ID		2.562		10.9	10.0	8.9	30.0
MFS_M4	L1ID		1.167		11.0	9.82	11.6	30.0
MFS_N4	L1ID		1.289		10.9	9.95	9.1	30.0
MFS_N5	L1ID		1.392		11.4	10.1	13.0	30.0
13C3 HFPO-DA	Ave	0.2019	0.2020		5.00	5.00	0.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-16.d
 Lims ID: CCV 3_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 15:27:49 ALS Bottle#: 6 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL5
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:18 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:29

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.393	4.393	0.0	0.879	619183	5.00	100	2005
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.998	0.0		3064822	5.00		2982
3 MFS_N2	461.00 > 367.00	5.246	5.246	0.0	1.194	3471407	10.5	109	613
4 MFS_M3	577.00 > 483.00	5.848	5.848	0.0	1.331	2701096	10.7	109	1844
5 MFS_N3	627.00 > 533.00	6.044	6.044	0.0	1.376	3177114	10.9	109	4438
6 MFS_M4	743.00 > 649.00	6.442	6.442	0.0	1.466	1418120	11.0	112	3343
7 MFS_N4	793.00 > 699.00	6.573	6.573	0.0	1.496	1588837	10.9	109	4838
8 MFS_N5	959.00 > 865.00	6.947	6.947	0.0	1.581	1740340	11.4	113	9004

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-16.d

Injection Date: 05-Aug-2022 15:27:49

Instrument ID: 30733

Lims ID: CCV 3_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

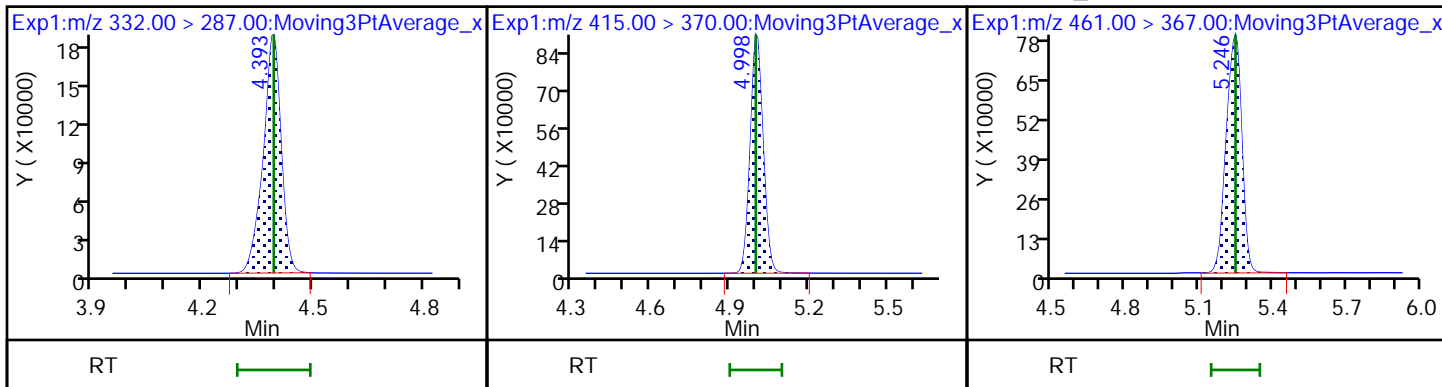
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

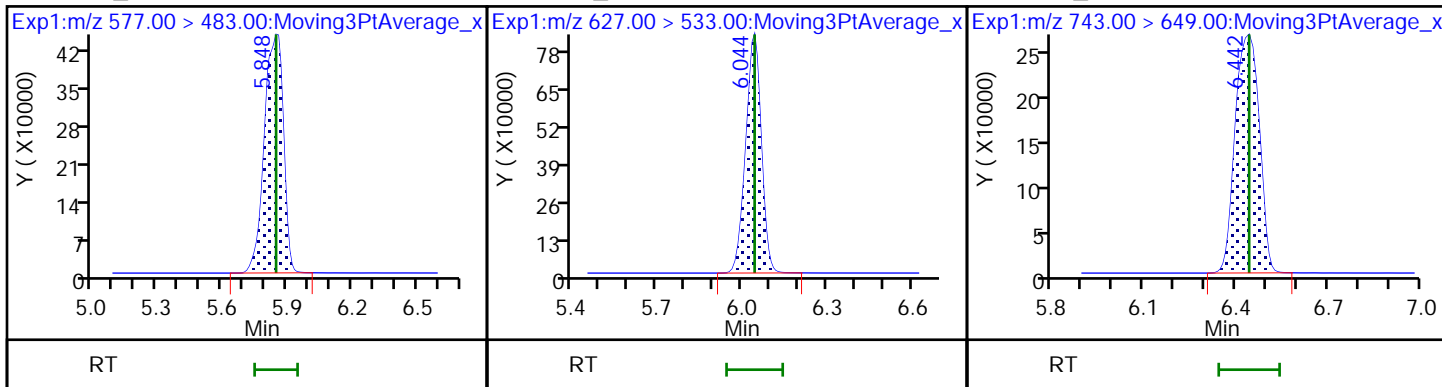
3 MFS_N2



4 MFS_M3

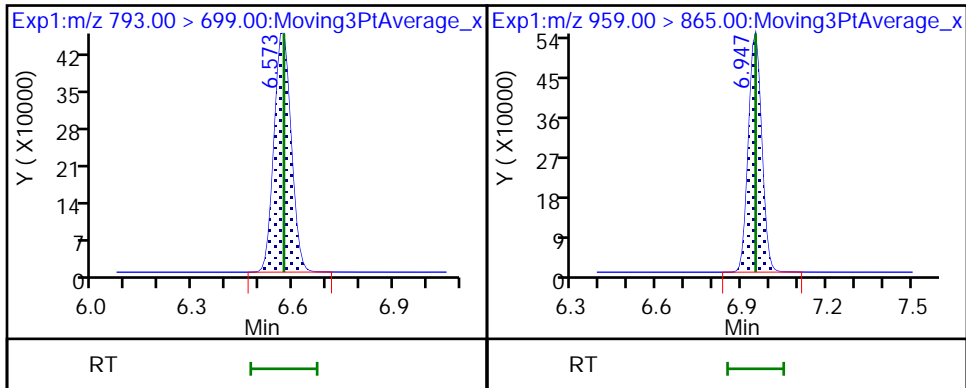
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/23 Calibration Date: 08/05/2022 16:56
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-23.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.088		0.199	0.241	-17.6	50.0
MFS_M3	L1ID		2.458		0.221	0.246	-10.2	50.0
MFS_N3	L1ID		2.693		0.248	0.250	-1.1	50.0
MFS_M4	L1ID		1.274		0.235	0.245	-4.4	50.0
MFS_N4	L1ID		1.607		0.235	0.249	-5.5	50.0
MFS_N5	L1ID		1.345		0.254	0.252	0.5	50.0
13C3 HFPO-DA	Ave	0.2019	0.1960		4.85	5.00	-2.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d
 Lims ID: CCVL 4_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 16:56:00 ALS Bottle#: 2 Worklist Smp#: 23
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 4_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-023
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:21 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:42

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA

332.00 > 287.00 4.395 4.393 0.002 0.879 651849 4.85 97.1 2311

* 2 13C2 PFOA

415.00 > 370.00 5.000 4.998 0.002 3324937 5.00 3238

3 MFS_N2

461.00 > 367.00 5.251 5.246 0.005 1.195 97002 0.1986 82.4 26.2 M

4 MFS_M3

577.00 > 483.00 5.858 5.848 0.010 1.333 78878 0.2211 89.8 189

5 MFS_N3

627.00 > 533.00 6.043 6.044 -0.001 1.375 87888 0.2476 98.9 656

6 MFS_M4

743.00 > 649.00 6.442 6.442 0.0 1.466 40762 0.2347 95.6 628

7 MFS_N4

793.00 > 699.00 6.572 6.573 -0.001 1.495 52133 0.2351 94.5 981

8 MFS_N5

959.00 > 865.00 6.947 6.947 0.0 1.580 44252 0.2537 100 950

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_MFS1_00009

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d

Injection Date: 05-Aug-2022 16:56:00

Instrument ID: 30733

Lims ID: CCVL 4_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 23

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

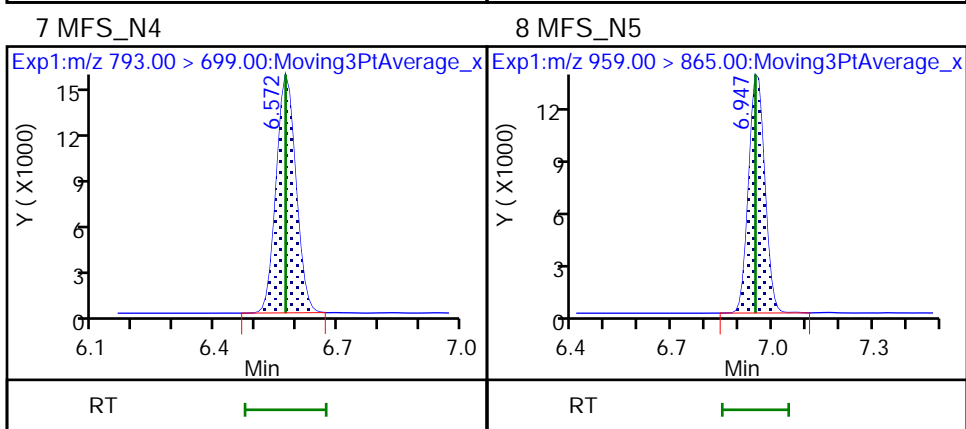
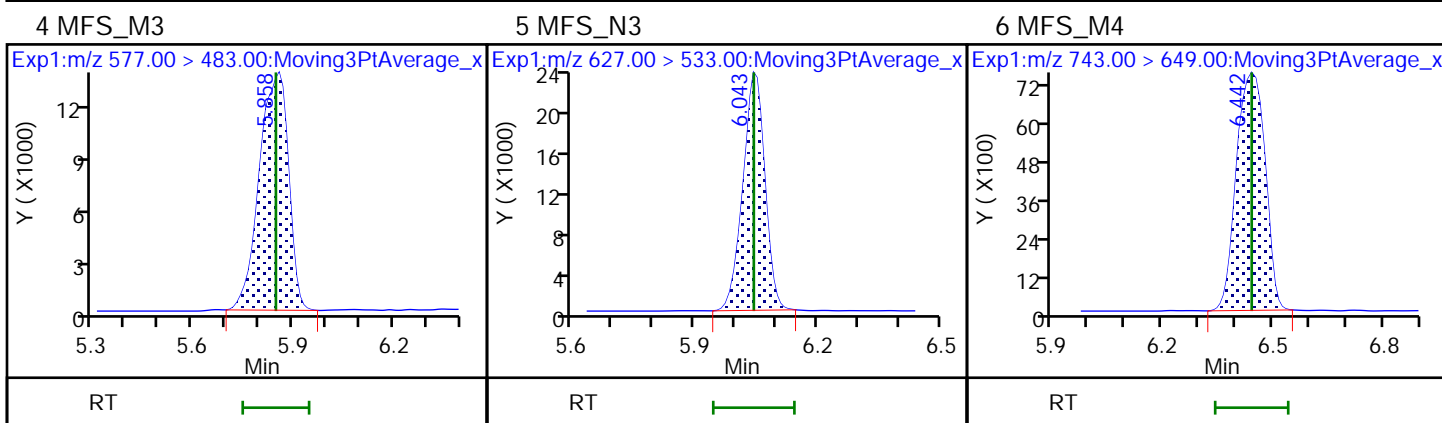
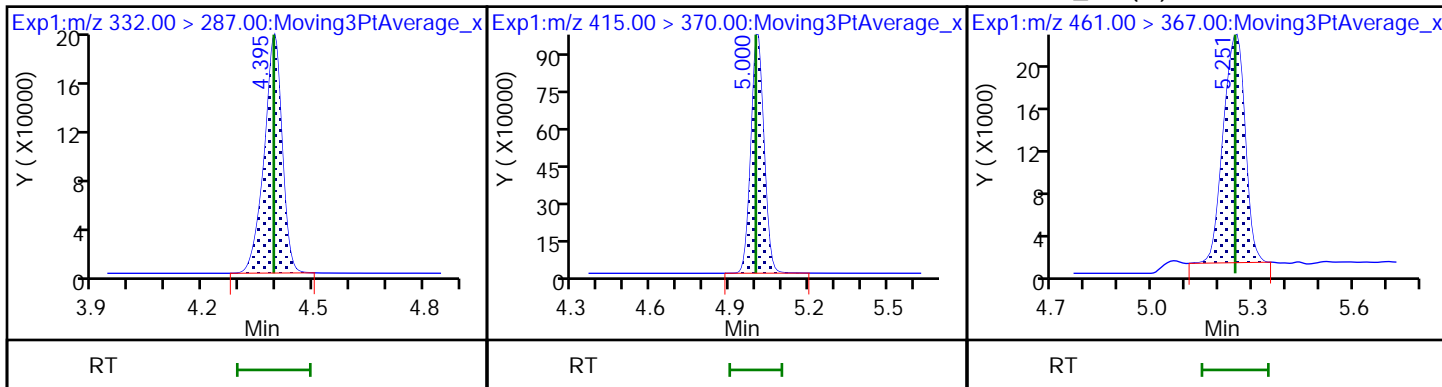
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

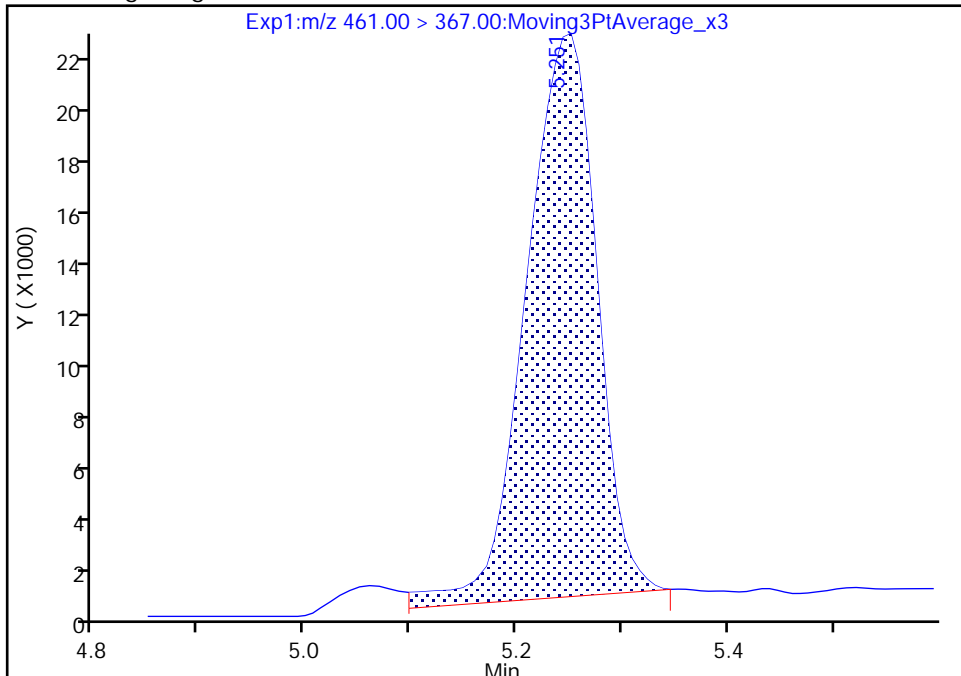
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Injection Date: 05-Aug-2022 16:56:00 Instrument ID: 30733
Lims ID: CCVL 4_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 23
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

3 MFS_N2, CAS: STL02873

Signal: 1

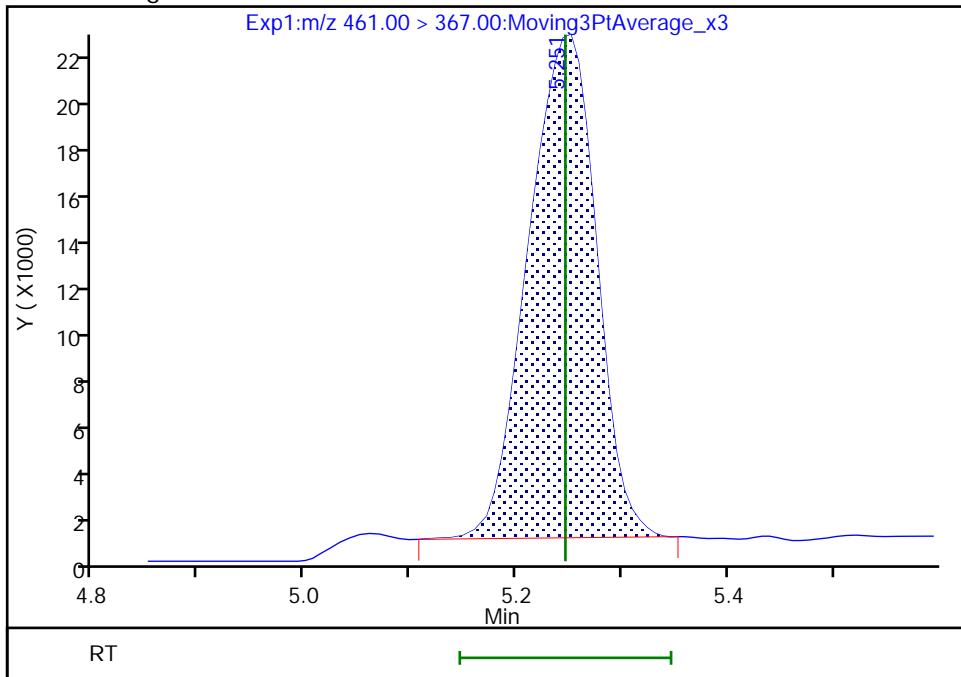
RT: 5.25
Area: 101677
Amount: 0.212092
Amount Units: ng/ml

Processing Integration Results



RT: 5.25
Area: 97002
Amount: 0.198572
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:02:13
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 630 of 685

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/29 Calibration Date: 08/05/2022 18:11
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-29.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.070		1.03	0.964	7.2	30.0
MFS_M3	L1ID		2.270		1.03	0.985	4.2	30.0
MFS_N3	L1ID		2.532		1.04	1.00	4.0	30.0
MFS_M4	L1ID		1.171		1.04	0.982	5.9	30.0
MFS_N4	L1ID		1.460		1.14	0.995	14.1	30.0
MFS_N5	L1ID		1.336		1.08	1.01	6.5	30.0
13C3 HFPO-DA	Ave	0.2019	0.1942		4.81	5.00	-3.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-29.d
 Lims ID: CCV 5_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 18:11:38 ALS Bottle#: 4 Worklist Smp#: 29
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 5_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-029
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:04 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:47

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.390	4.393	-0.003	0.878	588957	4.81	96.2	2238
* 2 13C2 PFOA	415.00 > 370.00	4.999	4.998	0.001		3032129	5.00		3386
3 MFS_N2	461.00 > 367.00	5.243	5.246	-0.003	1.194	348553	1.03	107	162
4 MFS_M3	577.00 > 483.00	5.857	5.848	0.009	1.334	263276	1.03	104	743
5 MFS_N3	627.00 > 533.00	6.042	6.044	-0.002	1.376	298675	1.04	104	1485
6 MFS_M4	743.00 > 649.00	6.440	6.442	-0.002	1.467	135402	1.04	106	1441
7 MFS_N4	793.00 > 699.00	6.571	6.573	-0.002	1.497	171183	1.14	114	2440
8 MFS_N5	959.00 > 865.00	6.945	6.947	-0.002	1.582	158942	1.08	107	3105

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-29.d

Injection Date: 05-Aug-2022 18:11:38

Instrument ID: 30733

Lims ID: CCV 5_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 29

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

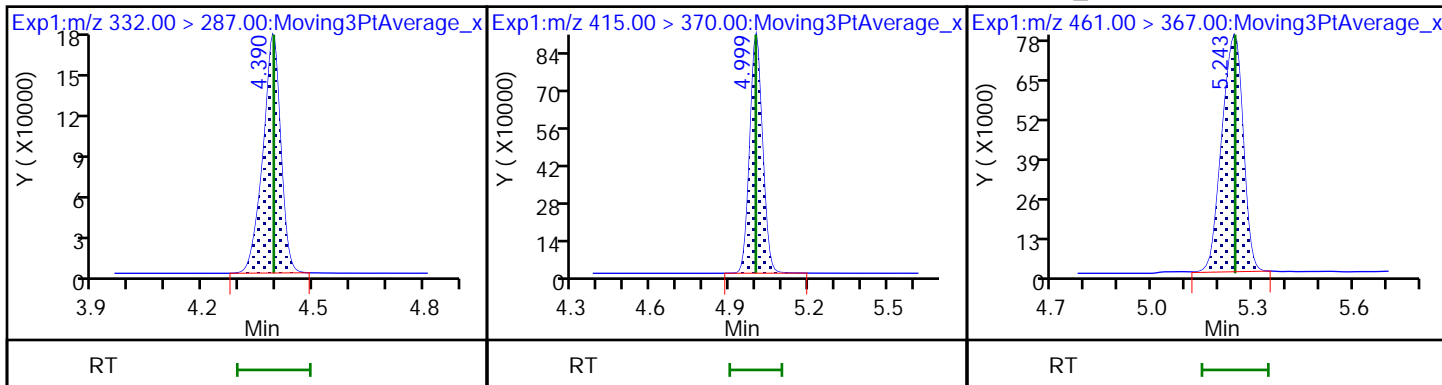
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

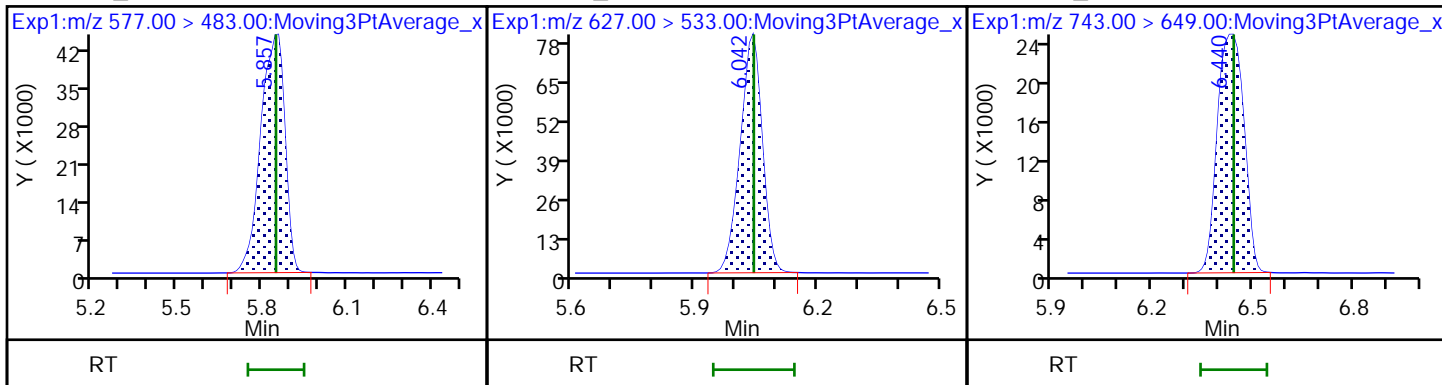
3 MFS_N2



4 MFS_M3

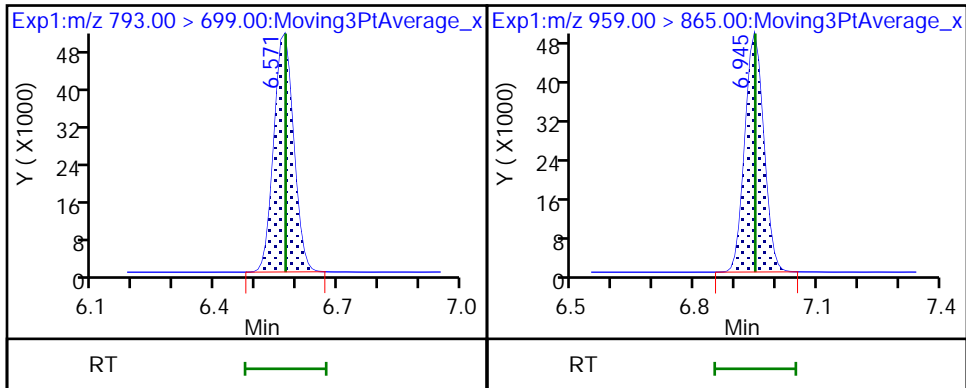
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/39 Calibration Date: 08/05/2022 20:18
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-39.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.935		10.6	9.64	9.8	30.0
MFS_M3	L1ID		2.250		10.9	9.85	10.4	30.0
MFS_N3	L1ID		2.540		10.8	10.0	7.9	30.0
MFS_M4	L1ID		1.161		10.9	9.82	11.1	30.0
MFS_N4	L1ID		1.263		10.6	9.95	6.9	30.0
MFS_N5	L1ID		1.381		11.3	10.1	12.1	30.0
13C3 HFPO-DA	Ave	0.2019	0.2004		4.96	5.00	-0.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-39.d
 Lims ID: CCV 6_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 20:18:51 ALS Bottle#: 6 Worklist Smp#: 39
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 6_CAL5
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-039
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:08 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:51

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.878	626860	4.96	99.2	2292
* 2 13C2 PFOA	415.00 > 370.00	5.011	5.011	0.0		3128628	5.00		3655
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	3546562	10.6	110	2091
4 MFS_M3	577.00 > 483.00	5.858	5.858	0.0	1.331	2777298	10.9	110	2275
5 MFS_N3	627.00 > 533.00	6.051	6.051	0.0	1.375	3188385	10.8	108	4893
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.463	1428950	10.9	111	3493
7 MFS_N4	793.00 > 699.00	6.576	6.576	0.0	1.494	1575219	10.6	107	5459
8 MFS_N5	959.00 > 865.00	6.957	6.957	0.0	1.581	1748310	11.3	112	10011

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-39.d

Injection Date: 05-Aug-2022 20:18:51

Instrument ID: 30733

Lims ID: CCV 6_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 39

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

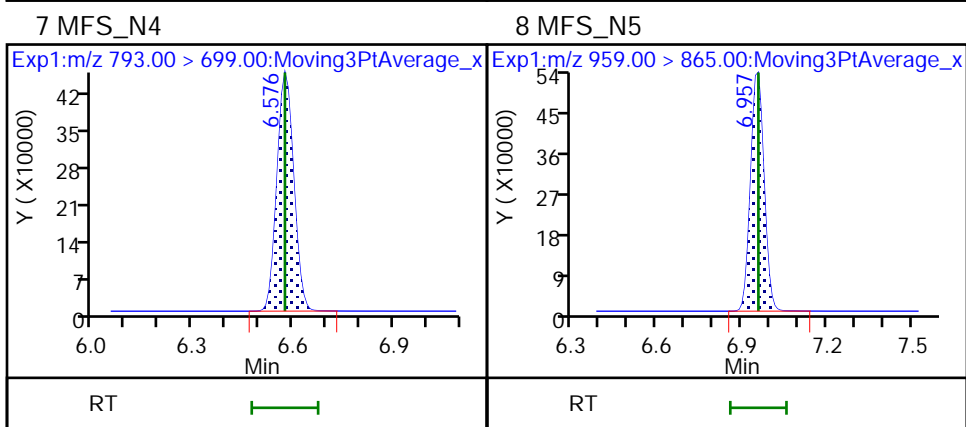
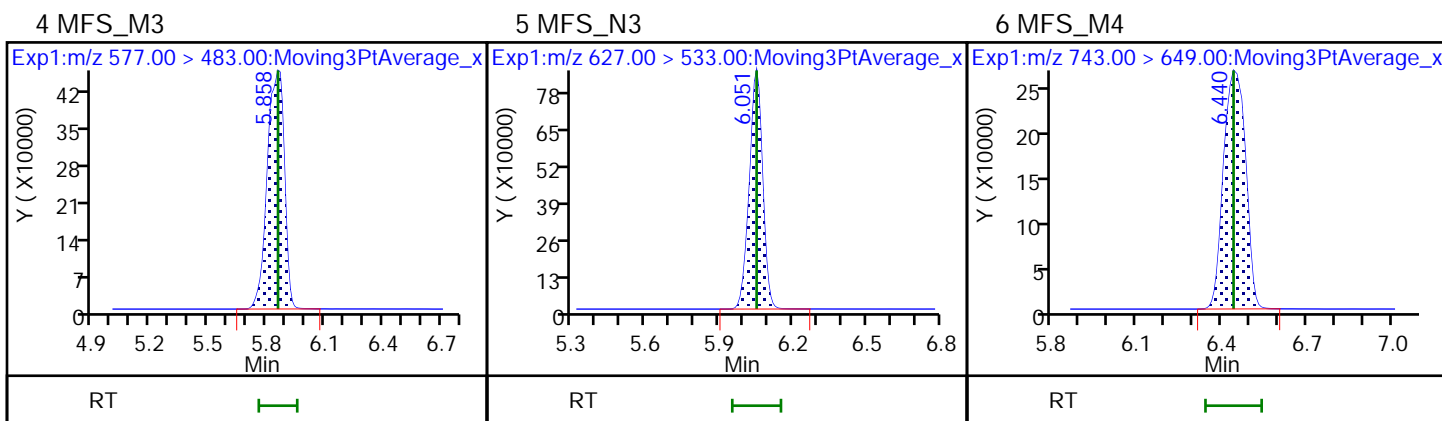
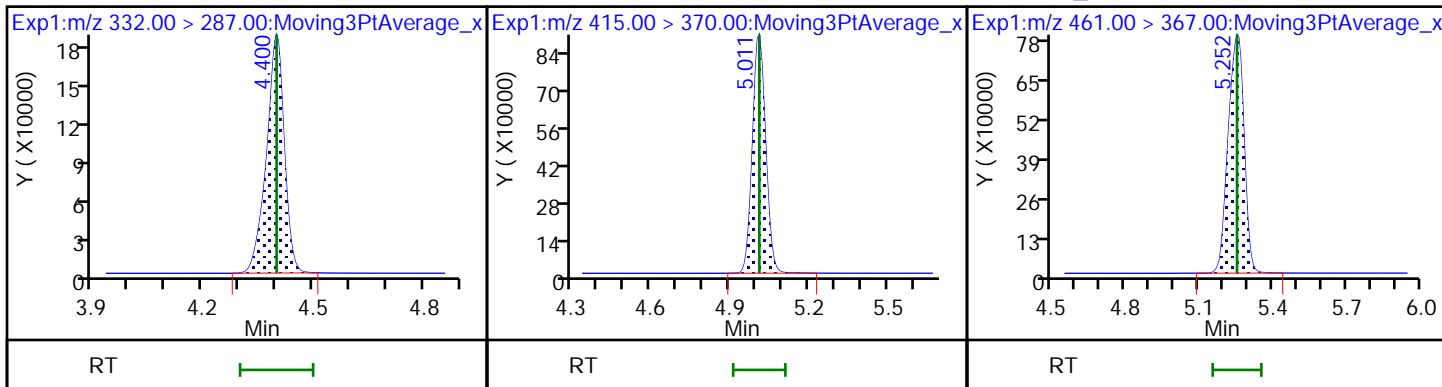
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/50 Calibration Date: 08/05/2022 22:37
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-50.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.224		0.211	0.241	-12.5	50.0
MFS_M3	L1ID		2.600		0.238	0.246	-3.2	50.0
MFS_N3	L1ID		2.750		0.254	0.250	1.3	50.0
MFS_M4	L1ID		1.221		0.222	0.245	-9.5	50.0
MFS_N4	L1ID		1.628		0.240	0.249	-3.7	50.0
MFS_N5	L1ID		1.427		0.271	0.252	7.2	50.0
13C3 HFPO-DA	Ave	0.2019	0.1923		4.76	5.00	-4.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-50.d
 Lims ID: CCVL 7_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 22:37:21 ALS Bottle#: 2 Worklist Smp#: 50
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 7_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-050
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:22:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:59

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.407	4.400	0.007	0.878	610632	4.76	95.2	2234
* 2 13C2 PFOA	415.00 > 370.00	5.022	5.011	0.011		3175067	5.00		3350
3 MFS_N2	461.00 > 367.00	5.265	5.252	0.013	1.195	94877	0.2109	87.5	83.0
4 MFS_M3	577.00 > 483.00	5.867	5.858	0.009	1.331	78172	0.2384	96.8	322
5 MFS_N3	627.00 > 533.00	6.058	6.051	0.007	1.375	84064	0.2537	101	790
6 MFS_M4	743.00 > 649.00	6.463	6.440	0.023	1.467	36585	0.2221	90.5	575
7 MFS_N4	793.00 > 699.00	6.590	6.576	0.014	1.495	49477	0.2396	96.3	985
8 MFS_N5	959.00 > 865.00	6.965	6.957	0.008	1.580	44006	0.2707	107	1509

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-50.d

Injection Date: 05-Aug-2022 22:37:21

Instrument ID: 30733

Lims ID: CCVL 7_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 50

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

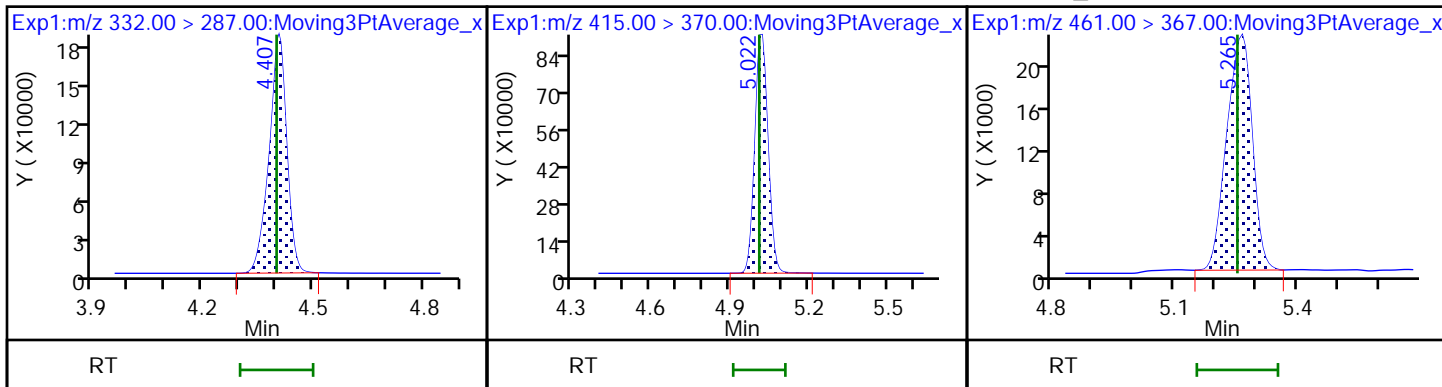
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

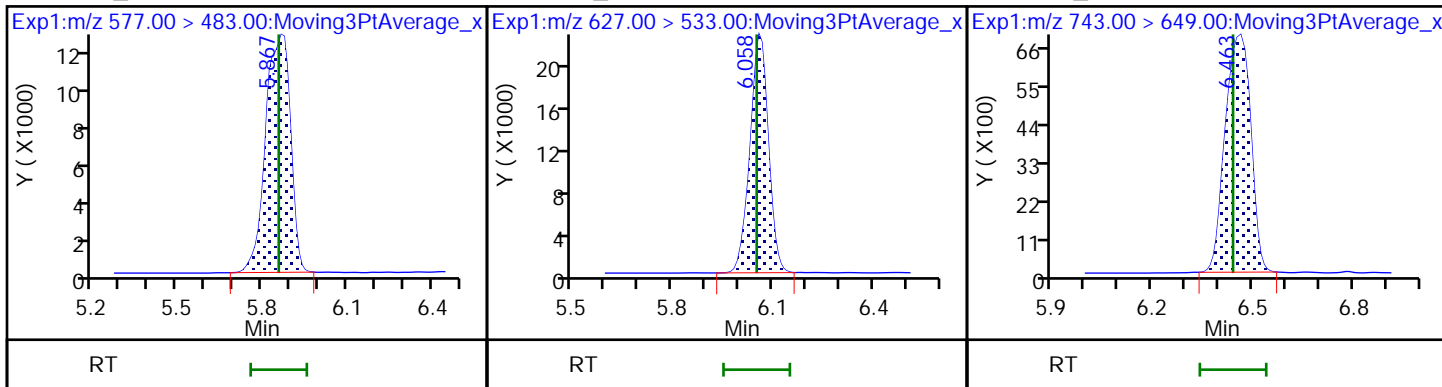
3 MFS_N2



4 MFS_M3

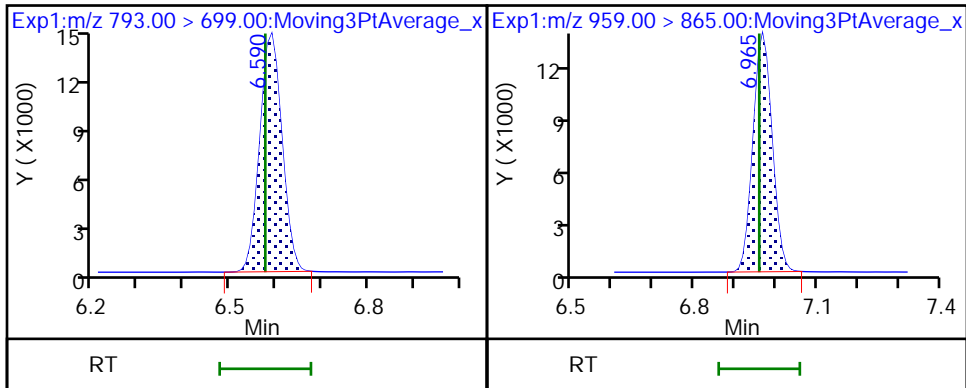
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283896/1 Calibration Date: 08/08/2022 18:56
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG08MFS-03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.140		0.203	0.241	-15.6	50.0
MFS_M3	L1ID		2.486		0.225	0.246	-8.8	50.0
MFS_N3	L1ID		2.726		0.251	0.250	0.3	50.0
MFS_M4	L1ID		1.262		0.232	0.245	-5.5	50.0
MFS_N4	L1ID		1.622		0.238	0.249	-4.3	50.0
MFS_N5	L1ID		1.382		0.261	0.252	3.6	50.0
13C3 HFPO-DA	Ave	0.2019	0.1959		4.85	5.00	-3.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-03.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 08-Aug-2022 18:56:16 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:24:38

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.379	4.379	0.0	0.879	669635	4.85	97.0	229
* 2 13C2 PFOA	415.00 > 370.00	4.983	4.983	0.0		3417511	5.00		331
3 MFS_N2	461.00 > 367.00	5.232	5.232	0.0	1.195	101329	0.2033	84.4	854
4 MFS_M3	577.00 > 483.00	5.839	5.839	0.0	1.333	81984	0.2246	91.2	131
5 MFS_N3	627.00 > 533.00	6.028	6.028	0.0	1.376	91402	0.2512	100	298
6 MFS_M4	743.00 > 649.00	6.423	6.423	0.0	1.467	41482	0.2318	94.5	231
7 MFS_N4	793.00 > 699.00	6.558	6.558	0.0	1.497	54029	0.2382	95.7	332
8 MFS_N5	959.00 > 865.00	6.932	6.932	0.0	1.583	46737	0.2615	104	500

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-03.d

Injection Date: 08-Aug-2022 18:56:16

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

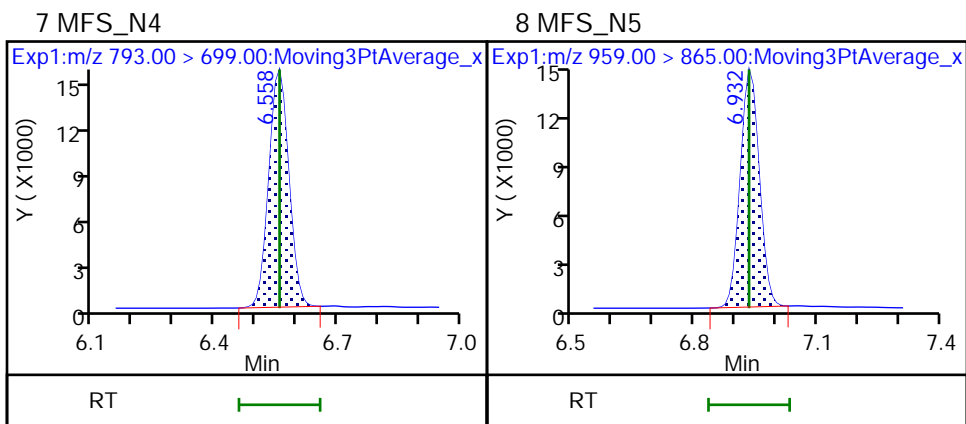
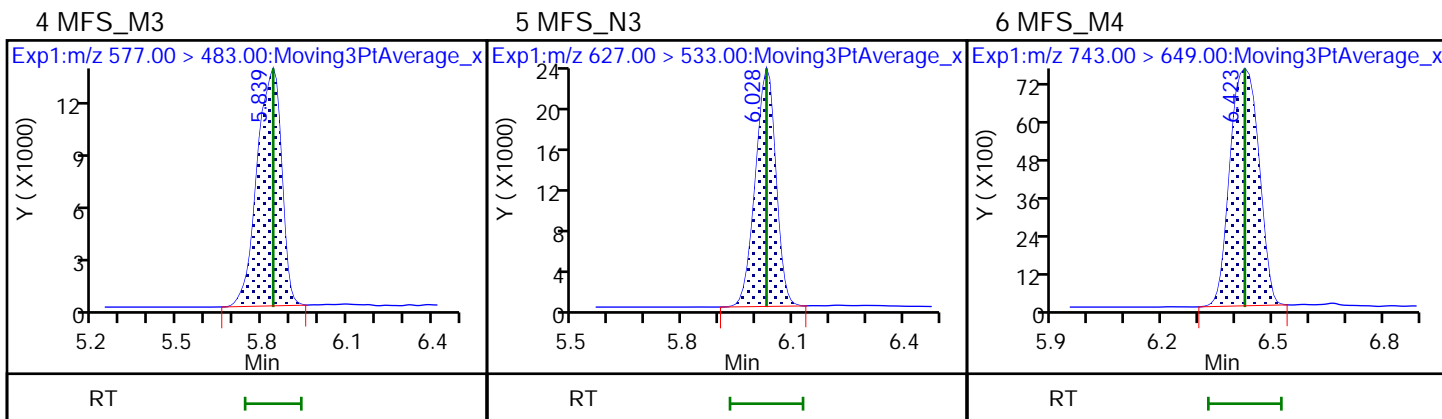
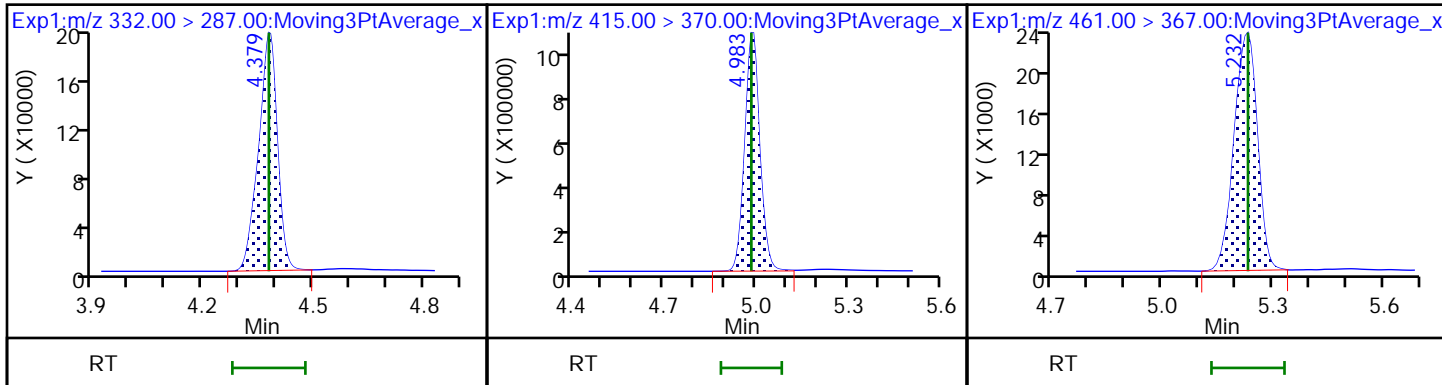
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283896/11 Calibration Date: 08/08/2022 21:02
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG08MFS-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.022		1.02	0.964	5.5	30.0
MFS_M3	L1ID		2.224		1.00	0.985	2.0	30.0
MFS_N3	L1ID		2.552		1.05	1.00	4.9	30.0
MFS_M4	L1ID		1.180		1.05	0.982	6.8	30.0
MFS_N4	L1ID		1.437		1.12	0.995	12.1	30.0
MFS_N5	L1ID		1.288		1.04	1.01	2.6	30.0
13C3 HFPO-DA	Ave	0.2019	0.1902		4.71	5.00	-5.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-13.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 08-Aug-2022 21:02:08 ALS Bottle#: 4 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:30 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:25:30

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.379	0.010	0.879	618931	4.71	94.2	242
* 2 13C2 PFOA	415.00 > 370.00	4.992	4.983	0.009		3254295	5.00		330
3 MFS_N2	461.00 > 367.00	5.236	5.232	0.004	1.193	360647	1.02	105	558
4 MFS_M3	577.00 > 483.00	5.844	5.839	0.005	1.331	271143	1.00	102	168
5 MFS_N3	627.00 > 533.00	6.031	6.028	0.003	1.374	316365	1.05	105	331
6 MFS_M4	743.00 > 649.00	6.426	6.423	0.003	1.464	143375	1.05	107	235
7 MFS_N4	793.00 > 699.00	6.559	6.558	0.001	1.494	177026	1.12	112	383
8 MFS_N5	959.00 > 865.00	6.942	6.932	0.010	1.582	160992	1.04	103	690

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-13.d

Injection Date: 08-Aug-2022 21:02:08

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

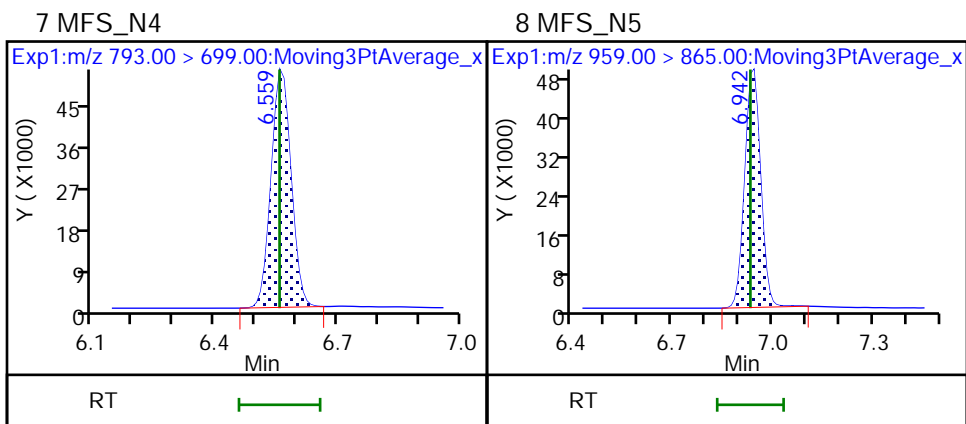
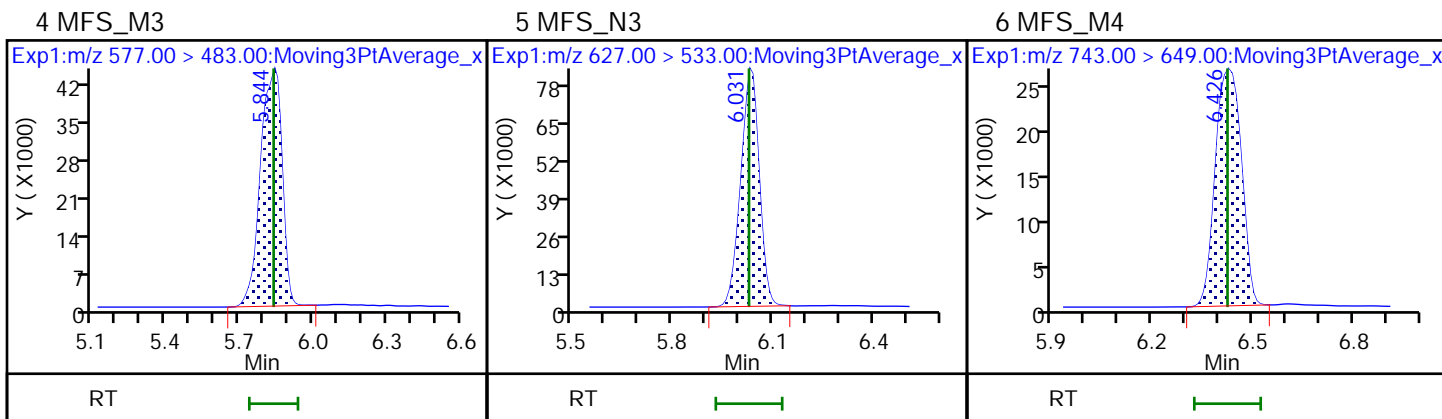
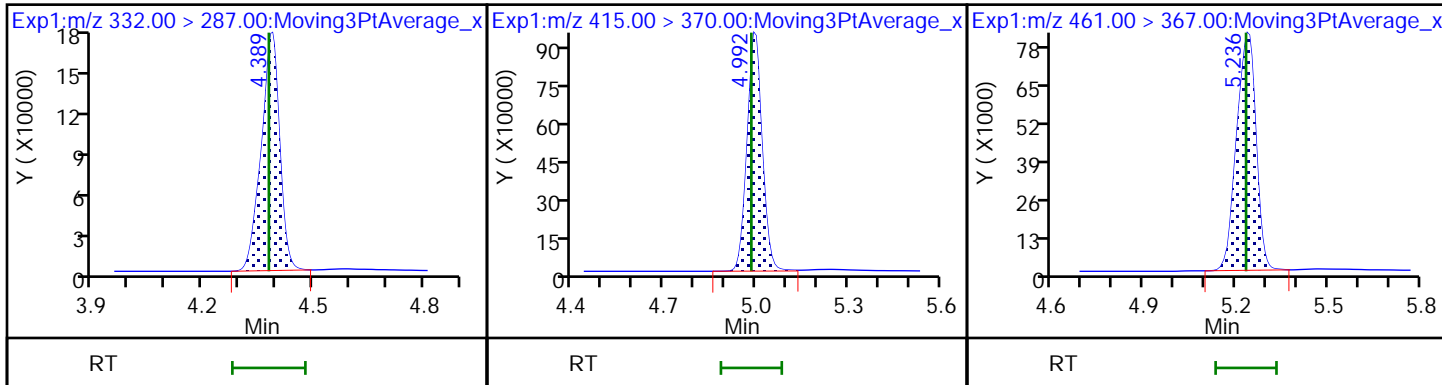
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-284258/1 Calibration Date: 08/10/2022 01:08
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG09MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.054		0.196	0.241	-18.9	50.0
MFS_M3	L1ID		2.549		0.232	0.246	-5.7	50.0
MFS_N3	L1ID		2.656		0.244	0.250	-2.7	50.0
MFS_M4	L1ID		1.166		0.209	0.245	-14.8	50.0
MFS_N4	L1ID		1.340		0.178	0.249	-28.3	50.0
MFS_N5	L1ID		1.201		0.224	0.252	-11.2	50.0
13C3 HFPO-DA	Ave	0.2019	0.2132		5.28	5.00	5.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 10-Aug-2022 01:08:02 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0063744-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 10-Aug-2022 10:48:03 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 10:46:47

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.394	0.0	0.879	741651	5.28	106	258
* 2 13C2 PFOA	415.00 > 370.00	4.999	4.999	0.0		3477860	5.00		335
3 MFS_N2	461.00 > 367.00	5.244	5.244	0.0	1.193	109178	0.1956	81.1	356
4 MFS_M3	577.00 > 483.00	5.848	5.848	0.0	1.331	93094	0.2322	94.3	182
5 MFS_N3	627.00 > 533.00	6.034	6.034	0.0	1.373	98626	0.2437	97.3	292
6 MFS_M4	743.00 > 649.00	6.430	6.430	0.0	1.463	42450	0.2092	85.2	216
7 MFS_N4	793.00 > 699.00	6.563	6.563	0.0	1.494	49450	0.1783	71.7	187
8 MFS_N5	959.00 > 865.00	6.938	6.938	0.0	1.579	44959	0.2241	88.8	484

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-01.d

Injection Date: 10-Aug-2022 01:08:02

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

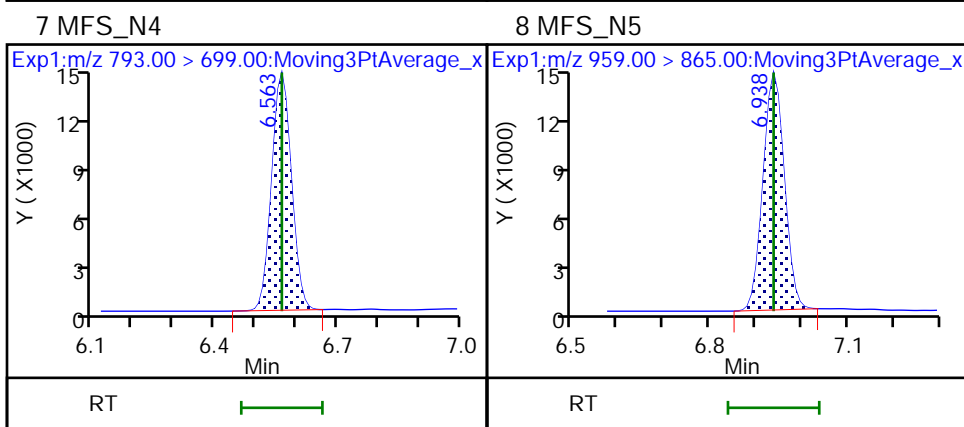
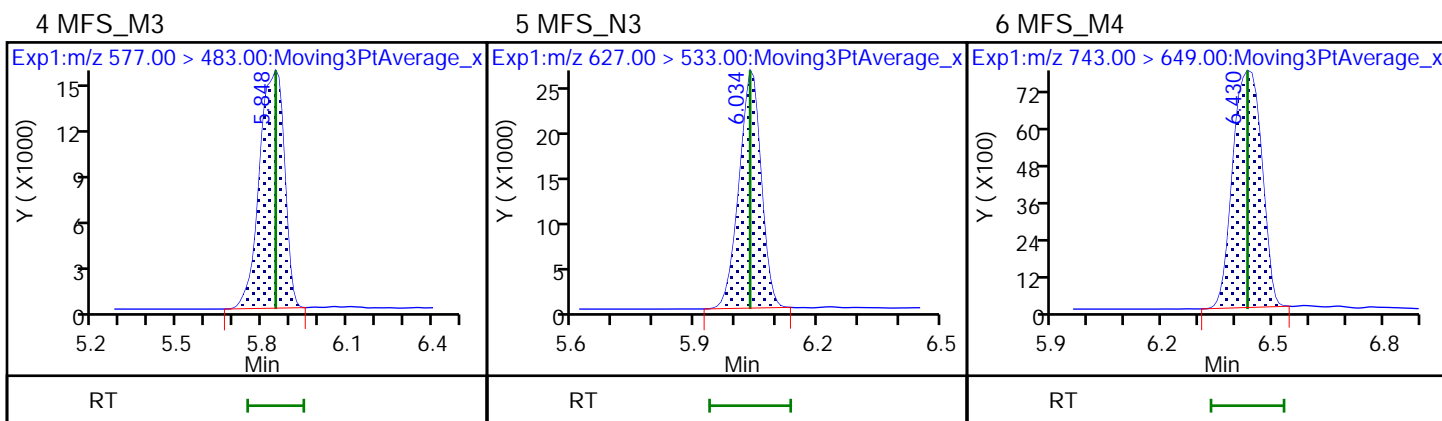
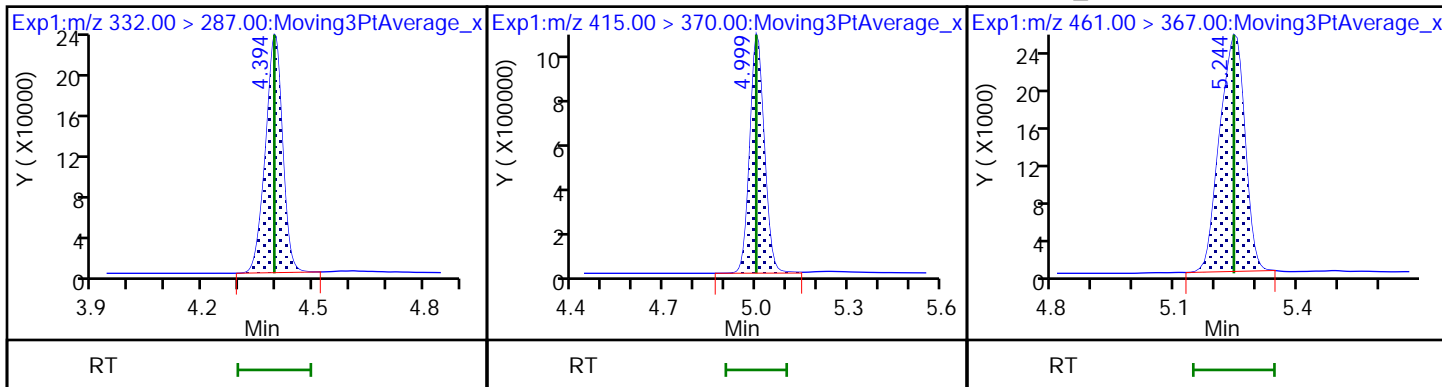
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284258/4 Calibration Date: 08/10/2022 01:47
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG09MFS-04.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.997		1.01	0.964	4.5	30.0
MFS_M3	L1ID		2.198		0.992	0.985	0.7	30.0
MFS_N3	L1ID		2.473		1.02	1.00	1.5	30.0
MFS_M4	L1ID		1.084		0.958	0.982	-2.5	30.0
MFS_N4	L1ID		1.315		1.01	0.995	1.7	30.0
MFS_N5	L1ID		1.186		0.952	1.01	-5.8	30.0
13C3 HFPO-DA	Ave	0.2019	0.2029		5.03	5.00	0.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-04.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 10-Aug-2022 01:47:21 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0063744-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 10-Aug-2022 10:48:05 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 10:46:52

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.380	4.394	-0.014	0.879	651634	5.03	101	238
* 2 13C2 PFOA	415.00 > 370.00	4.984	4.999	-0.015		3210888	5.00		323
3 MFS_N2	461.00 > 367.00	5.228	5.244	-0.016	1.194	376439	1.01	104	125
4 MFS_M3	577.00 > 483.00	5.833	5.848	-0.015	1.332	282118	0.99	101	178
5 MFS_N3	627.00 > 533.00	6.022	6.034	-0.012	1.375	322663	1.02	101	317
6 MFS_M4	743.00 > 649.00	6.413	6.430	-0.017	1.464	138646	0.9576	97.5	250
7 MFS_N4	793.00 > 699.00	6.547	6.563	-0.016	1.495	170572	1.01	102	311
8 MFS_N5	959.00 > 865.00	6.927	6.938	-0.011	1.581	156017	0.9516	94.2	677

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63744.b\22AUG09MFS-04.d

Injection Date: 10-Aug-2022 01:47:21

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

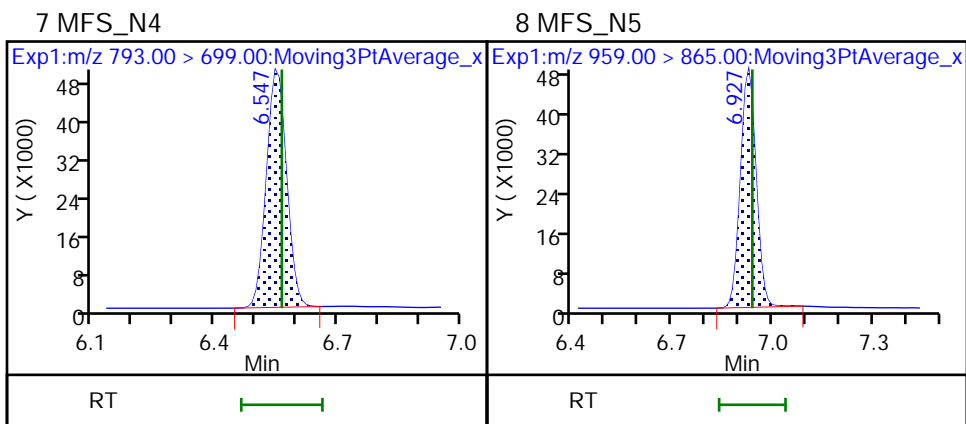
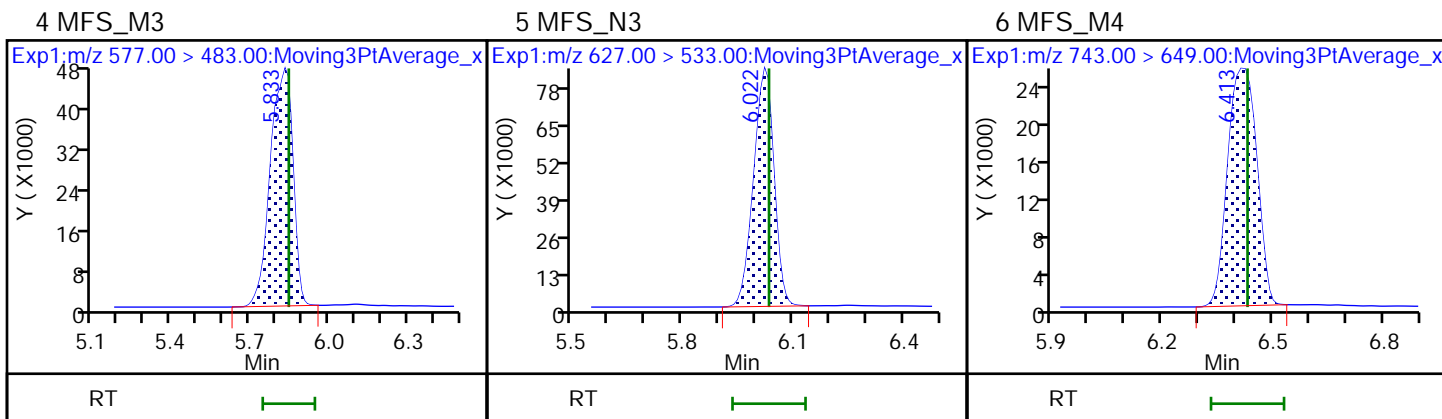
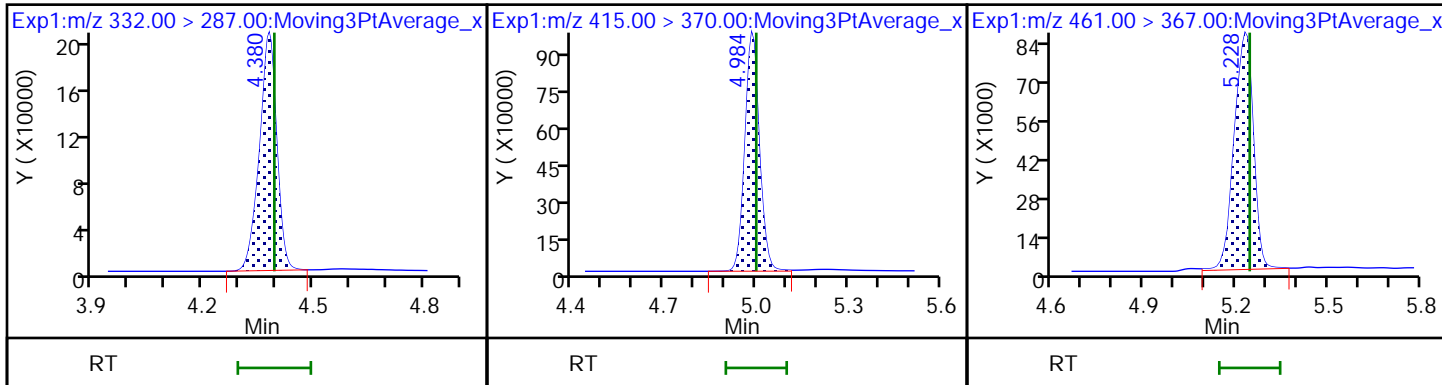
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-284700/1 Calibration Date: 08/11/2022 01:16
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG10MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.882		0.180	0.241	-25.4	50.0
MFS_M3	L1ID		2.302		0.202	0.246	-17.9	50.0
MFS_N3	L1ID		2.500		0.227	0.250	-9.3	50.0
MFS_M4	L1ID		1.127		0.200	0.245	-18.5	50.0
MFS_N4	L1ID		1.388		0.189	0.249	-24.2	50.0
MFS_N5	L1ID		1.230		0.230	0.252	-8.8	50.0
13C3 HFPO-DA	Ave	0.2019	0.2187		5.42	5.00	8.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 11-Aug-2022 01:16:47 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0063843-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 11-Aug-2022 06:26:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:26:15

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.394	0.0	0.879	747356	5.42	108	246
* 2 13C2 PFOA	415.00 > 370.00	4.999	4.999	0.0		3416516	5.00		327
3 MFS_N2	461.00 > 367.00	5.243	5.243	0.0	1.193	103800	0.1799	74.6	216
4 MFS_M3	577.00 > 483.00	5.846	5.846	0.0	1.331	84711	0.2022	82.1	80.0
5 MFS_N3	627.00 > 533.00	6.033	6.033	0.0	1.373	93554	0.2270	90.7	265
6 MFS_M4	743.00 > 649.00	6.429	6.429	0.0	1.463	41358	0.2000	81.5	177
7 MFS_N4	793.00 > 699.00	6.562	6.562	0.0	1.493	51621	0.1885	75.8	182
8 MFS_N5	959.00 > 865.00	6.936	6.936	0.0	1.579	46405	0.2301	91.2	322

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-01.d

Injection Date: 11-Aug-2022 01:16:47

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

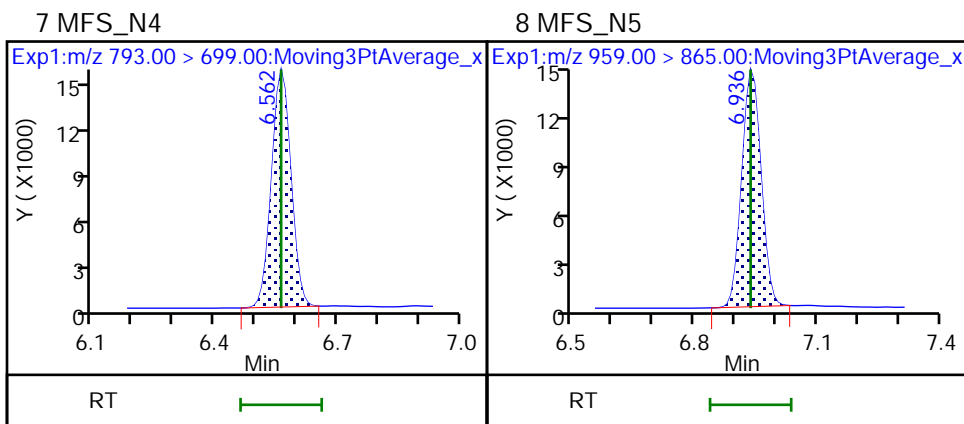
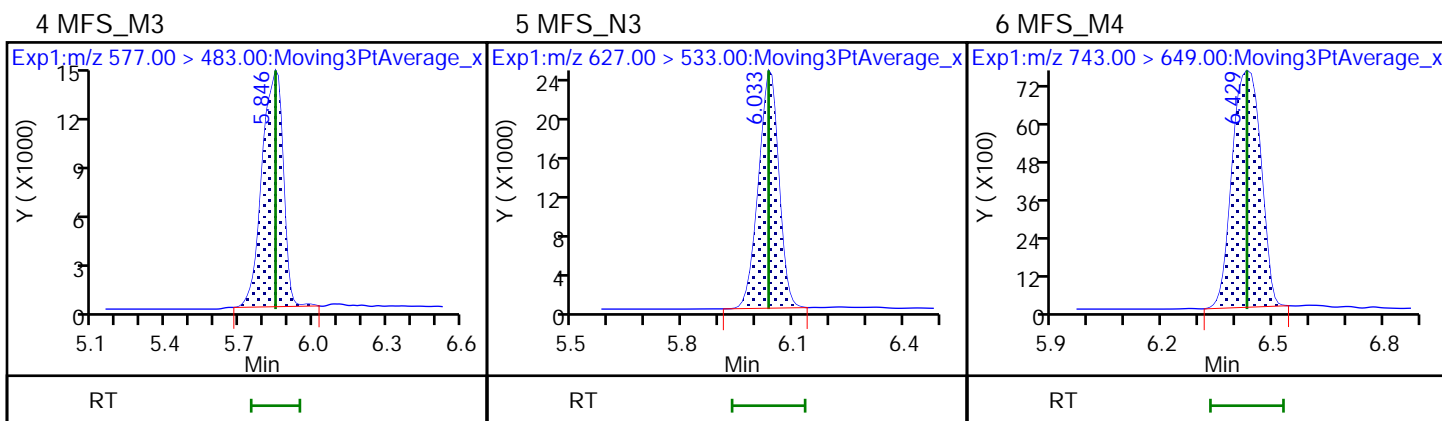
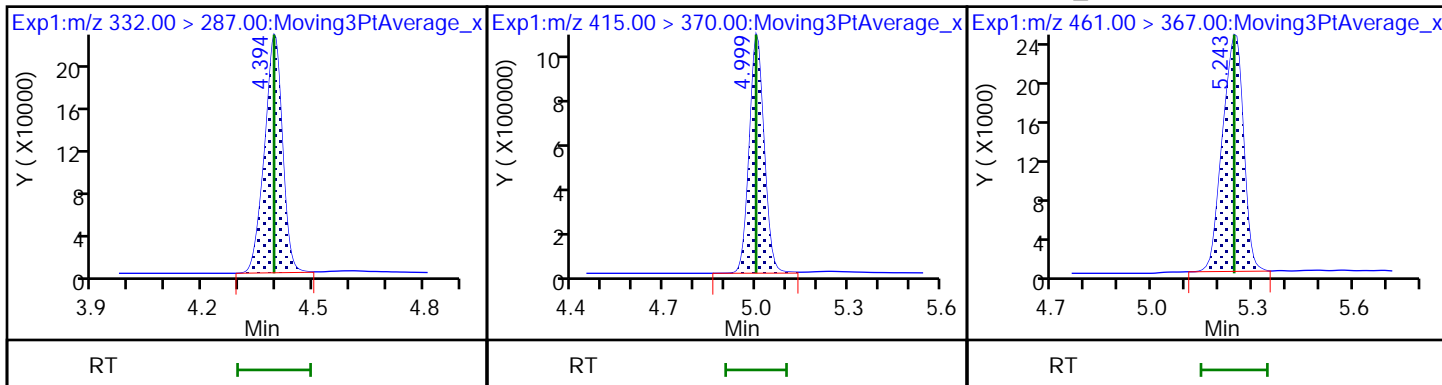
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284700/5 Calibration Date: 08/11/2022 02:08
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG10MFS-05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.894		0.970	0.964	0.6	30.0
MFS_M3	L1ID		2.099		0.943	0.985	-4.2	30.0
MFS_N3	L1ID		2.416		0.992	1.00	-0.9	30.0
MFS_M4	L1ID		1.109		0.981	0.982	-0.0	30.0
MFS_N4	L1ID		1.337		1.03	0.995	3.6	30.0
MFS_N5	L1ID		1.206		0.968	1.01	-4.1	30.0
13C3 HFPO-DA	Ave	0.2019	0.2043		5.06	5.00	1.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-05.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Aug-2022 02:08:37 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0063843-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 11-Aug-2022 06:27:01 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1672

First Level Reviewer: JVK6 Date: 11-Aug-2022 06:26:22

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.388	4.394	-0.006	0.878	613672	5.06	101	241
* 2 13C2 PFOA	415.00 > 370.00	4.997	4.999	-0.002		3003078	5.00		326
3 MFS_N2	461.00 > 367.00	5.238	5.243	-0.005	1.194	342361	0.9697	101	490
4 MFS_M3	577.00 > 483.00	5.848	5.846	0.002	1.333	253647	0.9432	95.8	130
5 MFS_N3	627.00 > 533.00	6.035	6.033	0.002	1.376	296946	0.99	99.1	320
6 MFS_M4	743.00 > 649.00	6.431	6.429	0.002	1.466	133586	0.9812	100.0	252
7 MFS_N4	793.00 > 699.00	6.564	6.562	0.002	1.496	163274	1.03	104	316
8 MFS_N5	959.00 > 865.00	6.938	6.936	0.002	1.581	149420	0.9681	95.9	467

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220810-63843.b\22AUG10MFS-05.d

Injection Date: 11-Aug-2022 02:08:37

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

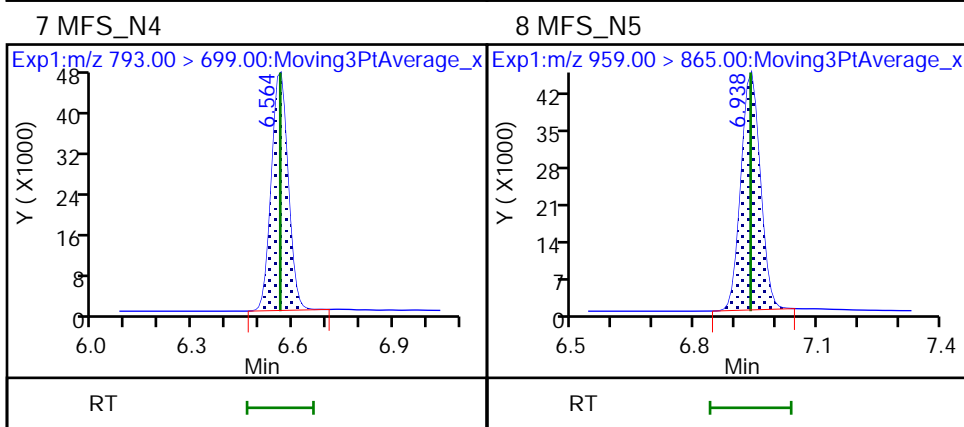
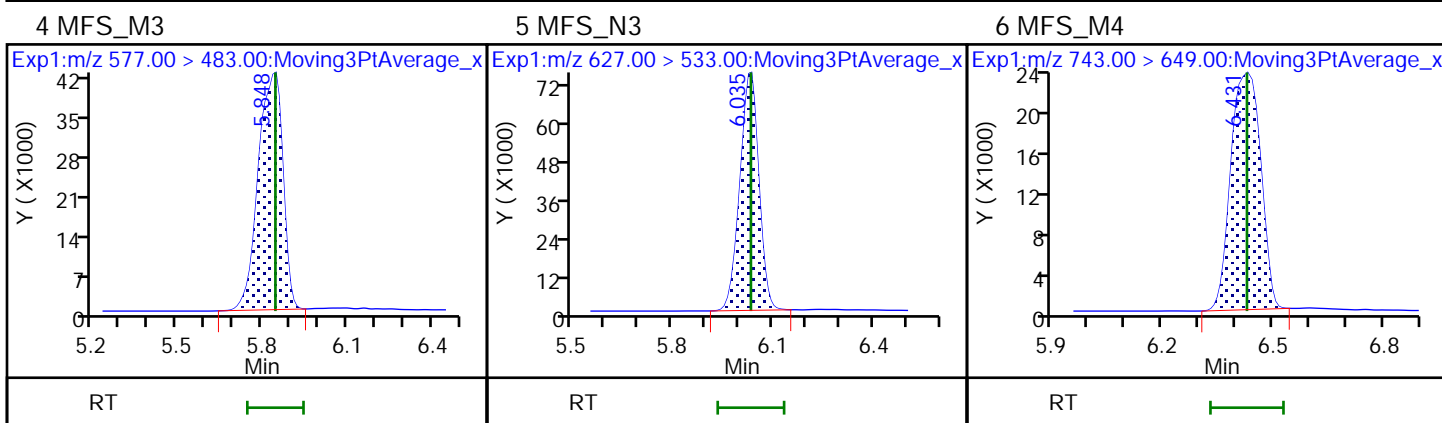
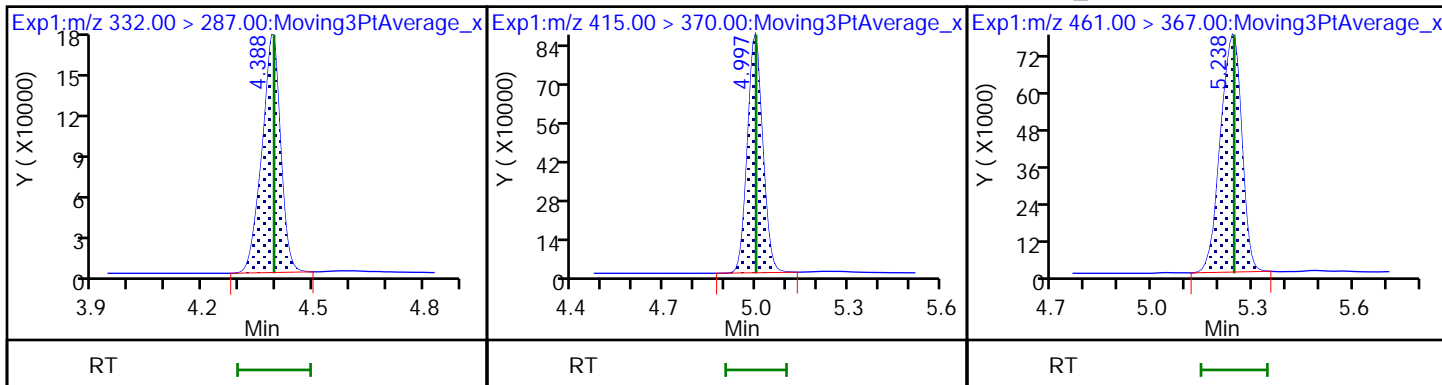
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279532/1-A

Matrix: Water Lab File ID: 22AUG5MFS-02.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 12:31

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-02.d
 Lims ID: MB 410-279532/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Aug-2022 12:31:34 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279532/1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:54:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.400	-0.006	0.878	642296	4.26	85.2	3429
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3731777	5.00		6335
3 MFS_N2	461.00 > 367.00	5.250	5.252	-0.002	1.195	7897	-0.0588		70.5

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-02.d

Injection Date: 05-Aug-2022 12:31:34

Instrument ID: 30733

Lims ID: MB 410-279532/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

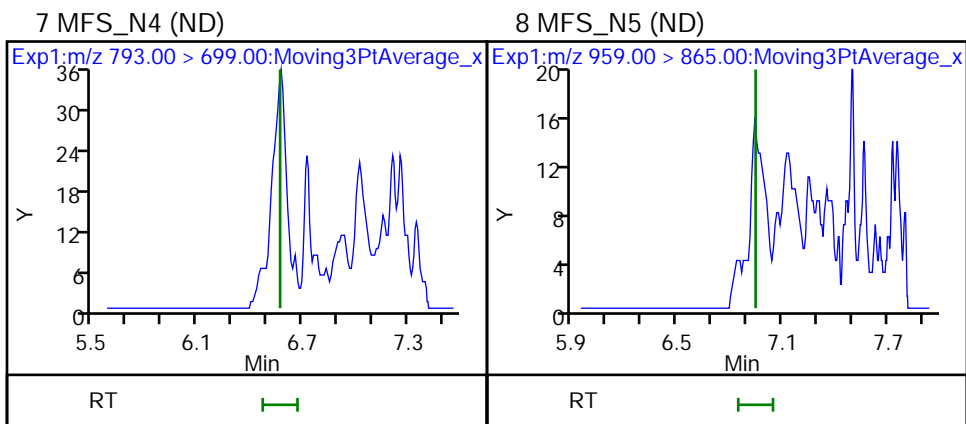
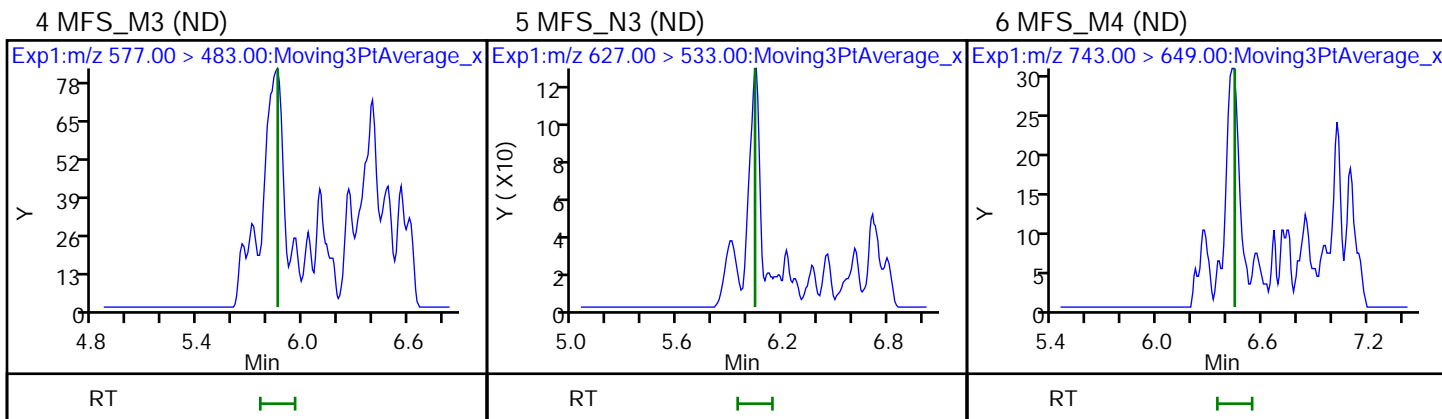
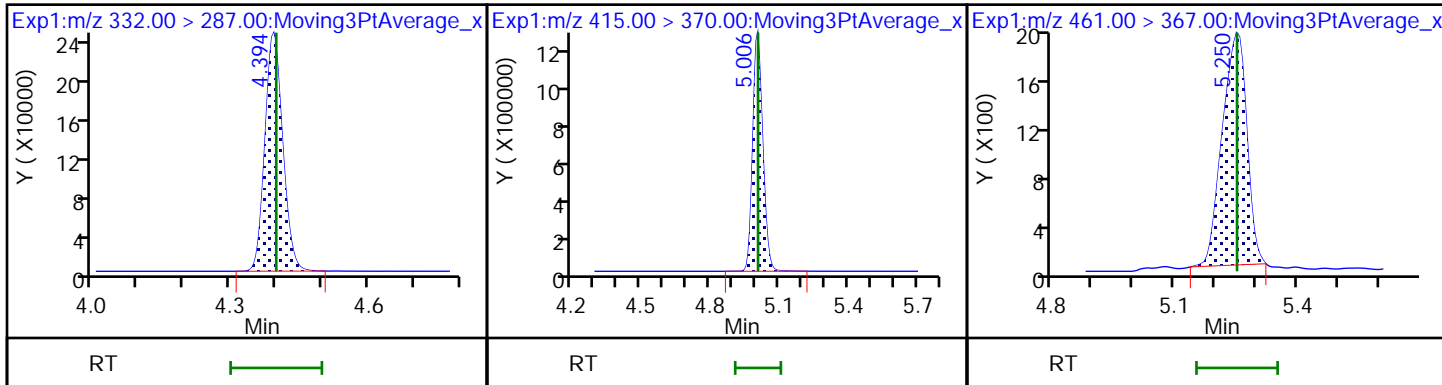
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279534/1-A

Matrix: Water Lab File ID: 22AUG5MFS-24.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 17:08

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-24.d
 Lims ID: MB 410-279534/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Aug-2022 17:08:38 ALS Bottle#: 29 Worklist Smp#: 24
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279534/1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-024
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:19:17 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:02
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.395	4.393	0.002	0.879	668119	5.05	101	2867
* 2 13C2 PFOA	415.00 > 370.00	5.000	4.998	0.002		3276548	5.00		3726

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-24.d

Injection Date: 05-Aug-2022 17:08:38

Instrument ID: 30733

Lims ID: MB 410-279534/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 29

Worklist Smp#: 24

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

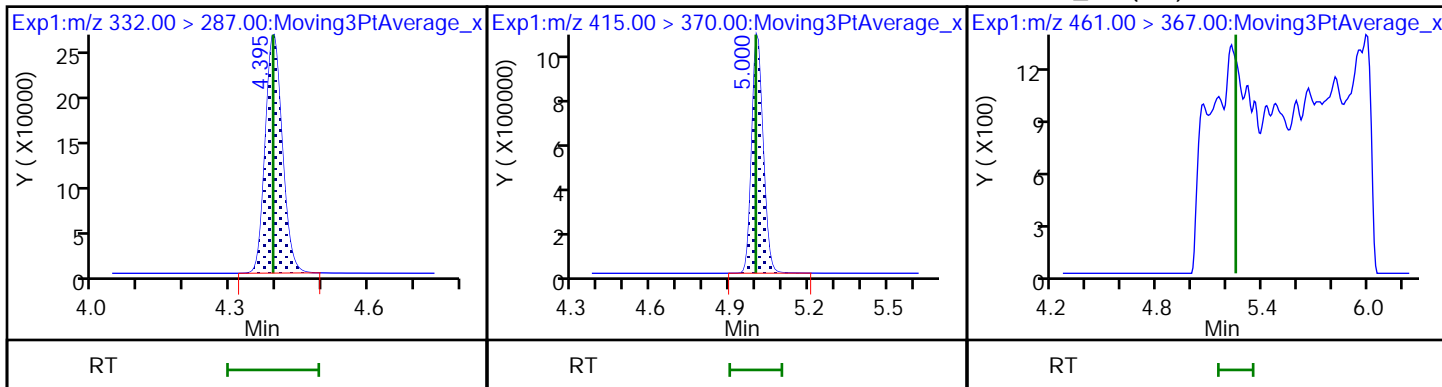
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

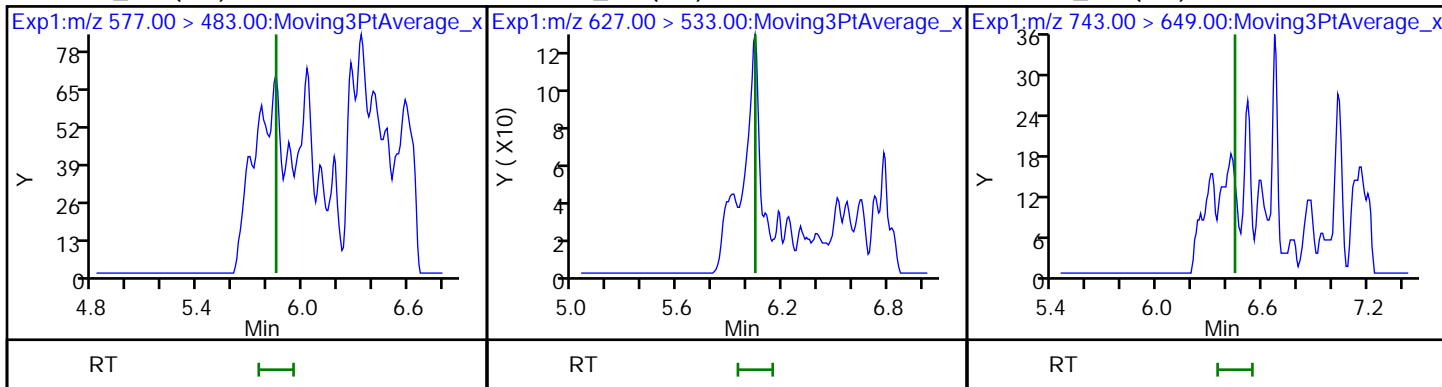
3 MFS_N2 (ND)



4 MFS_M3 (ND)

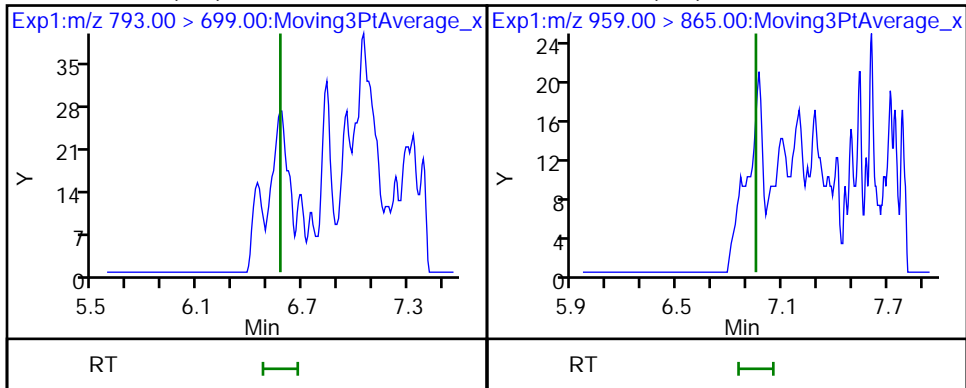
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-283151/8

Matrix: Water Lab File ID: 22AUG05MFSCAL-12.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/05/2022 10:21

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283151 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 05-Aug-2022 10:21:32 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:19
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.387	4.389	-0.002	0.878	648984	5.14	103	2787
* 2 13C2 PFOA	415.00 > 370.00	4.996	4.998	-0.002		3128259	5.00		4711
8 MFS_N5	959.00 > 865.00	6.947	6.942	0.005	1.584	1102	-0.0156		30.3

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d

Injection Date: 05-Aug-2022 10:21:32

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

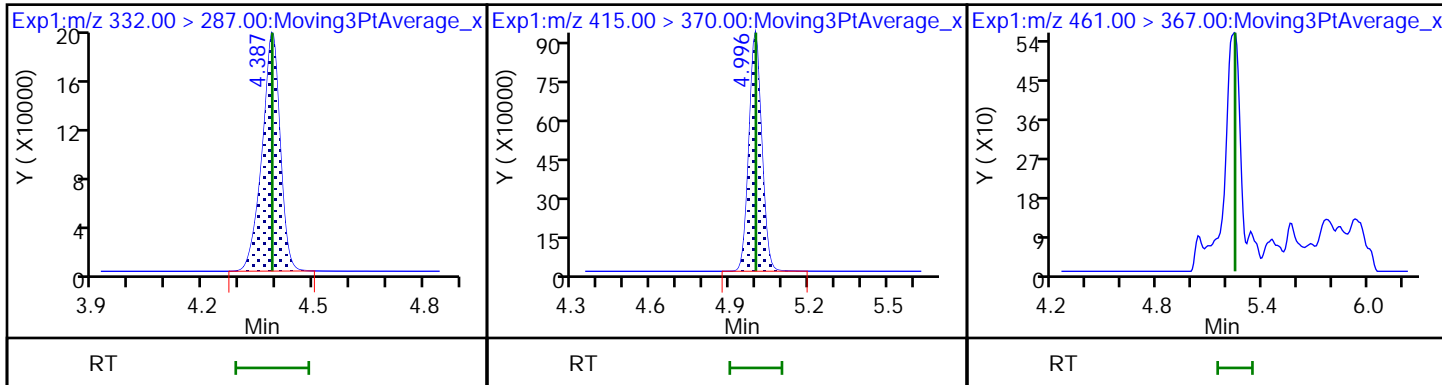
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

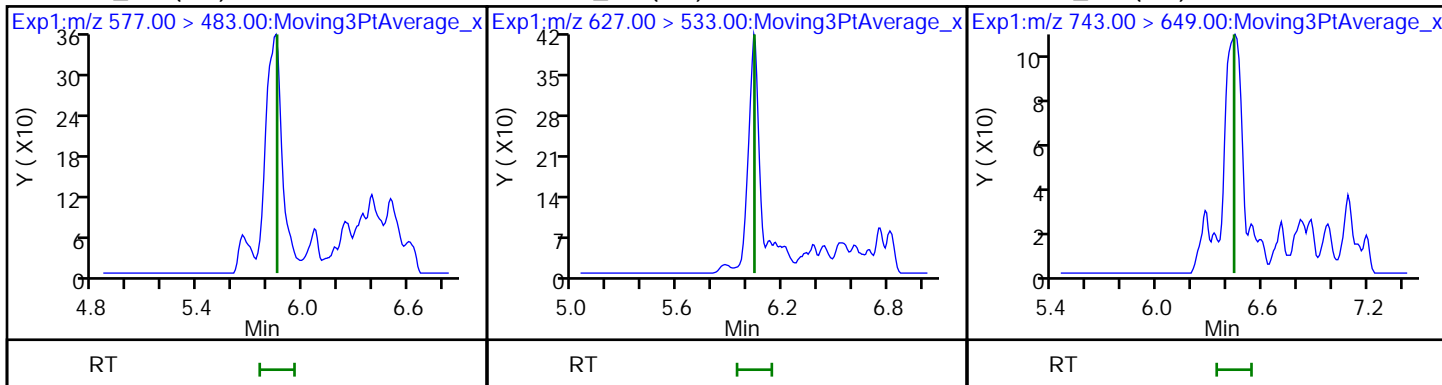
3 MFS_N2 (ND)



4 MFS_M3 (ND)

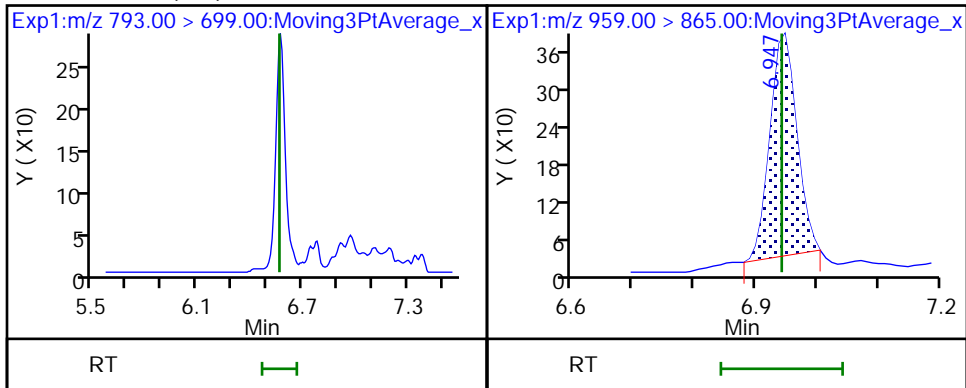
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279532/2-A

Matrix: Water Lab File ID: 22AUG5MFS-03.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 12:44

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	41.7		1.0	0.20
STL02874	MFS_M3	42.4		1.0	0.20
STL02875	MFS_N3	40.3		1.0	0.20
STL02876	MFS_M4	42.0		1.0	0.50
STL02877	MFS_N4	41.7		2.0	1.0
STL02888	MFS_N5	41.7		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-03.d
 Lims ID: LCS 410-279532/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Aug-2022 12:44:11 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279532/2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:02:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.398	4.400	-0.002	0.879	676486	4.46	89.2	3173
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3757354	5.00		6392
3 MFS_N2	461.00 > 367.00	5.258	5.252	0.006	1.195	3767457	10.4	108	19406
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.332	2924334	10.6	108	3602
5 MFS_N3	627.00 > 533.00	6.050	6.042	0.008	1.375	3206438	10.1	101	5736
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	1484476	10.5	107	6063
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	1665281	10.4	105	7868
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	1738944	10.4	103	12189

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-03.d

Injection Date: 05-Aug-2022 12:44:11

Instrument ID: 30733

Lims ID: LCS 410-279532/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

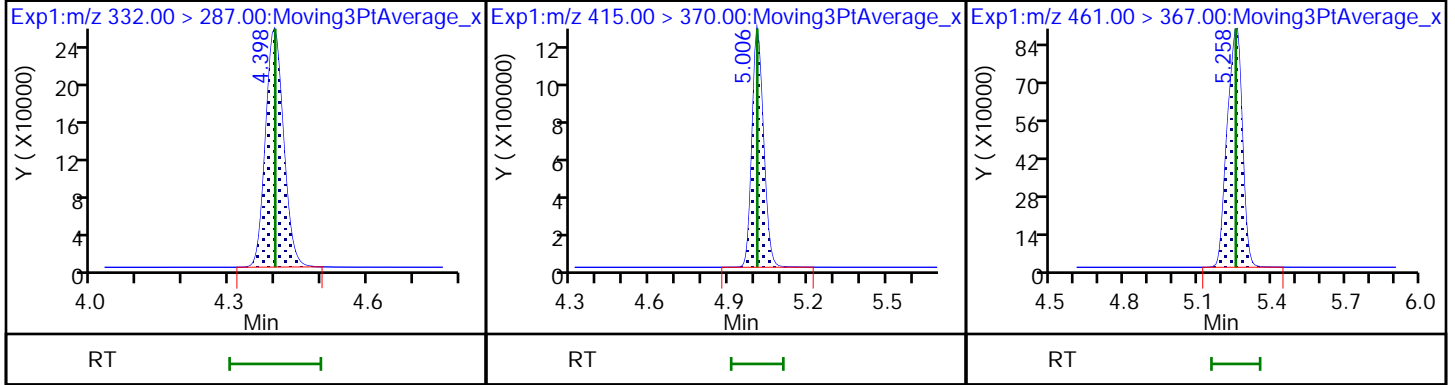
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

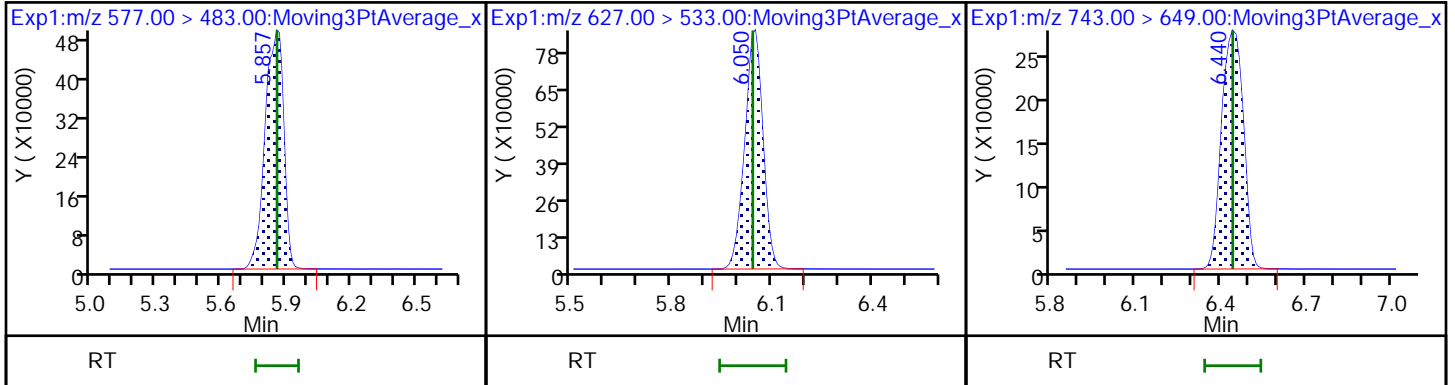
3 MFS_N2



4 MFS_M3

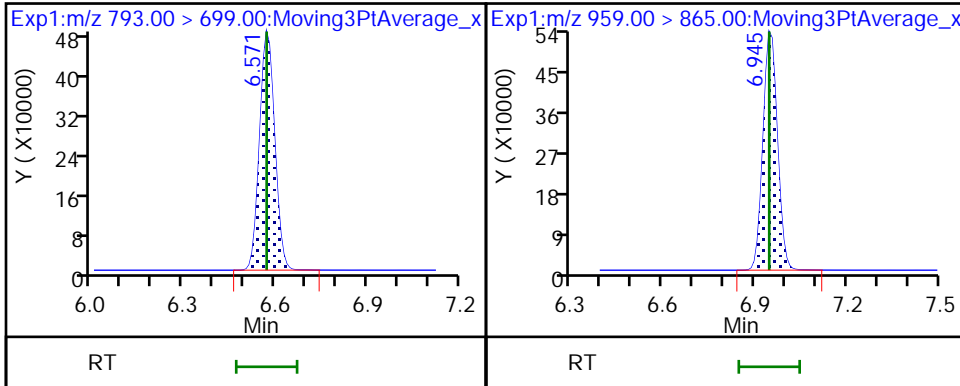
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-90799-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279534/2-A

Matrix: Water Lab File ID: 22AUG5MFS-25.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:37

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 17:21

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	41.3		1.0	0.20
STL02874	MFS_M3	41.0		1.0	0.20
STL02875	MFS_N3	40.5		1.0	0.20
STL02876	MFS_M4	43.0		1.0	0.50
STL02877	MFS_N4	41.7		2.0	1.0
STL02888	MFS_N5	43.8		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-25.d
 Lims ID: LCS 410-279534/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Aug-2022 17:21:15 ALS Bottle#: 30 Worklist Smp#: 25
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279534/2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-025
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:19:17 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:17:05
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.391	4.393	-0.002	0.878	656279	5.23	105	2990
* 2 13C2 PFOA	415.00 > 370.00	5.003	4.998	0.005		3108926	5.00		3835
3 MFS_N2	461.00 > 367.00	5.252	5.246	0.006	1.196	3621802	10.3	107	1314
4 MFS_M3	577.00 > 483.00	5.859	5.848	0.011	1.334	2743562	10.2	104	2612
5 MFS_N3	627.00 > 533.00	6.044	6.044	0.0	1.376	3131434	10.1	101	4798
6 MFS_M4	743.00 > 649.00	6.443	6.442	0.001	1.467	1475360	10.8	110	4276
7 MFS_N4	793.00 > 699.00	6.573	6.573	0.0	1.497	1617779	10.4	105	6117
8 MFS_N5	959.00 > 865.00	6.948	6.947	0.001	1.582	1770675	11.0	108	10290

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-25.d

Injection Date: 05-Aug-2022 17:21:15

Instrument ID: 30733

Lims ID: LCS 410-279534/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 30

Worklist Smp#: 25

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

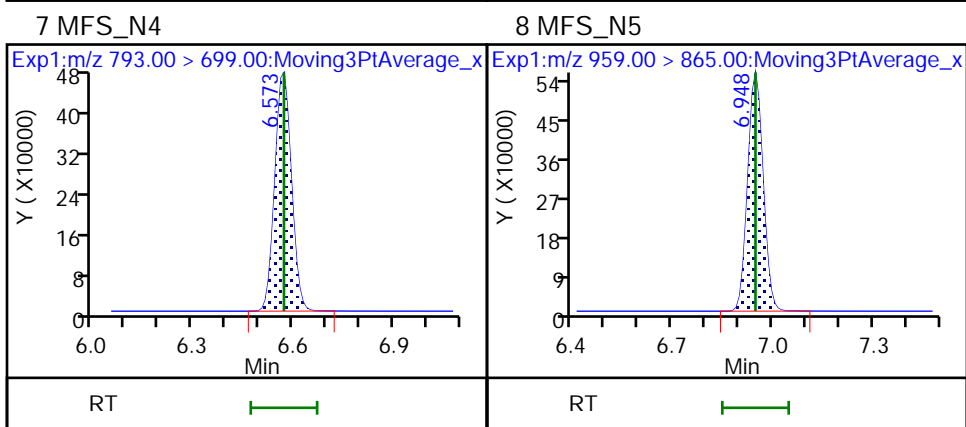
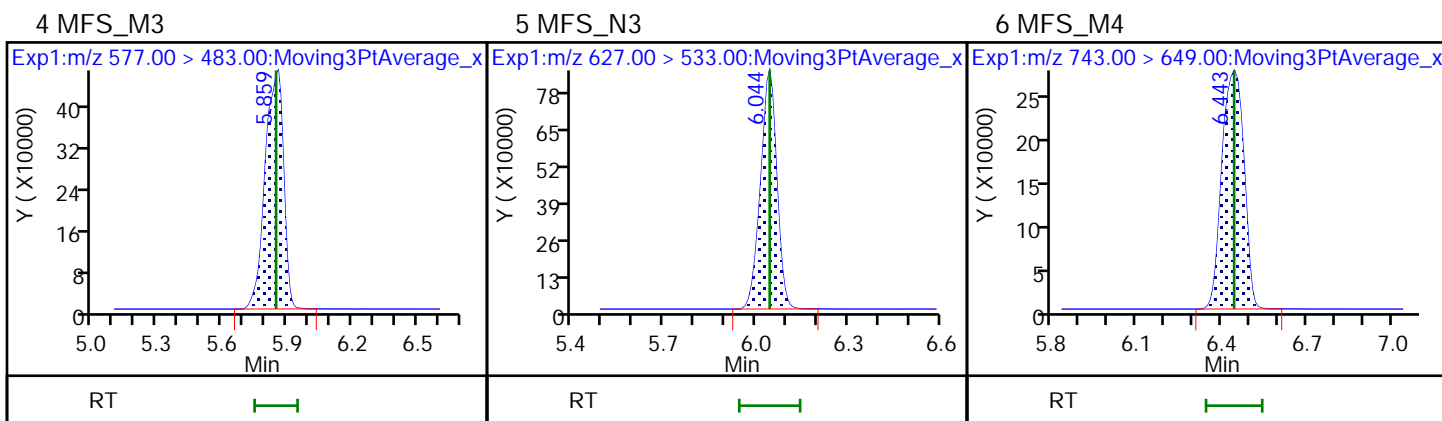
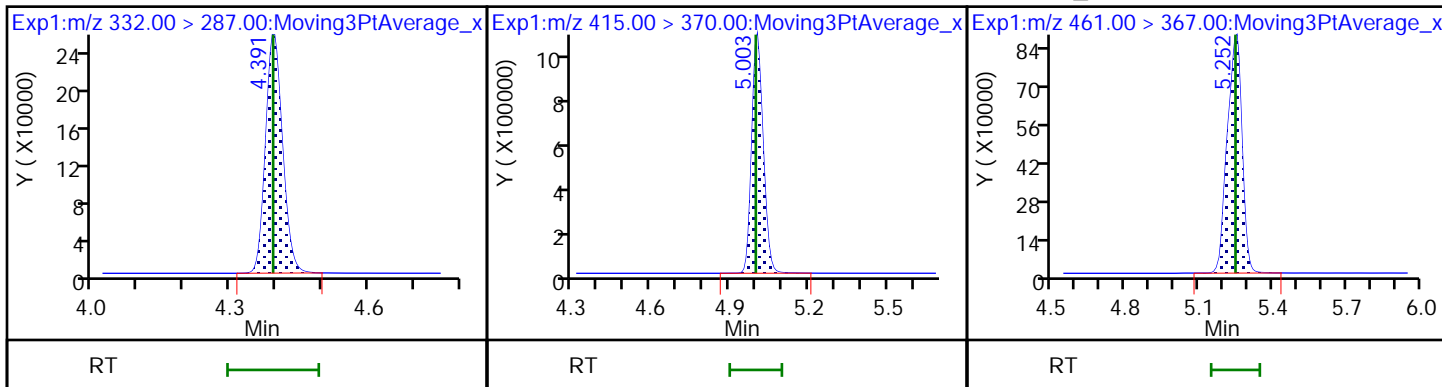
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 08:53

Analysis Batch Number: 283151 End Date: 08/05/2022 10:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-283151/1		08/05/2022 08:53	1	22AUG05MFSCAL-0 5.d	Gemini C18 50mm 3 (mm)
IC 410-283151/2		08/05/2022 09:05	1	22AUG05MFSCAL-0 6.d	Gemini C18 50mm 3 (mm)
IC 410-283151/3		08/05/2022 09:18	1	22AUG05MFSCAL-0 7.d	Gemini C18 50mm 3 (mm)
IC 410-283151/4		08/05/2022 09:31	1	22AUG05MFSCAL-0 8.d	Gemini C18 50mm 3 (mm)
ICISAV 410-283151/5		08/05/2022 09:43	1	22AUG05MFSCAL-0 9.d	Gemini C18 50mm 3 (mm)
IC 410-283151/6		08/05/2022 09:56	1	22AUG05MFSCAL-1 0.d	Gemini C18 50mm 3 (mm)
IC 410-283151/7		08/05/2022 10:08	1	22AUG05MFSCAL-1 1.d	Gemini C18 50mm 3 (mm)
ICB 410-283151/8		08/05/2022 10:21	1	22AUG05MFSCAL-1 2.d	Gemini C18 50mm 3 (mm)
ICV 410-283151/9		08/05/2022 10:34	1	22AUG05MFSCAL-1 3.d	Gemini C18 50mm 3 (mm)
CCV 410-283151/10		08/05/2022 10:46	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.:

Instrument ID: 30733

Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250

End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283250/1		08/05/2022 12:17	1	22AUG5MFS-01.d	Gemini C18 50mm 3 (mm)
MB 410-279532/1-A		08/05/2022 12:31	1	22AUG5MFS-02.d	Gemini C18 50mm 3 (mm)
LCS 410-279532/2-A		08/05/2022 12:44	1	22AUG5MFS-03.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 12:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:21	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/7		08/05/2022 13:34	1	22AUG5MFS-07.d	Gemini C18 50mm 3 (mm)
410-90799-10	MW-43I	08/05/2022 13:47	1	22AUG5MFS-08.d	Gemini C18 50mm 3 (mm)
410-90799-11	MW-43D	08/05/2022 13:59	1	22AUG5MFS-09.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:12	1		Gemini C18 50mm 3 (mm)
410-90799-13	MW-19I	08/05/2022 14:24	1	22AUG5MFS-11.d	Gemini C18 50mm 3 (mm)
410-90799-14	MW-19S	08/05/2022 14:37	1	22AUG5MFS-12.d	Gemini C18 50mm 3 (mm)
410-90799-15	MW-38D	08/05/2022 14:50	1	22AUG5MFS-13.d	Gemini C18 50mm 3 (mm)
410-90799-16	MW-33S	08/05/2022 15:02	1	22AUG5MFS-14.d	Gemini C18 50mm 3 (mm)
410-90799-17	MW-41D	08/05/2022 15:15	1	22AUG5MFS-15.d	Gemini C18 50mm 3 (mm)
CCV 410-283250/16		08/05/2022 15:27	1	22AUG5MFS-16.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:40	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 16:30	1		Gemini C18 50mm 3 (mm)
CCVL 410-283250/23		08/05/2022 16:56	1	22AUG5MFS-23.d	Gemini C18 50mm 3 (mm)
MB 410-279534/1-A		08/05/2022 17:08	1	22AUG5MFS-24.d	Gemini C18 50mm 3 (mm)
LCS 410-279534/2-A		08/05/2022 17:21	1	22AUG5MFS-25.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:59	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/29		08/05/2022 18:11	1	22AUG5MFS-29.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:15	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:28	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:41	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:53	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:06	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/39		08/05/2022 20:18	1	22AUG5MFS-39.d	Gemini C18 50mm 3 (mm)
410-90799-1	MW-124S	08/05/2022 20:31	1	22AUG5MFS-40.d	Gemini C18 50mm 3 (mm)
410-90799-2	MW-124D	08/05/2022 20:44	1	22AUG5MFS-41.d	Gemini C18 50mm 3 (mm)
410-90799-3	MW-111S	08/05/2022 20:56	1	22AUG5MFS-42.d	Gemini C18 50mm 3 (mm)
410-90799-4	MW-111D	08/05/2022 21:09	1	22AUG5MFS-43.d	Gemini C18 50mm 3 (mm)
410-90799-5	MW-110S	08/05/2022 21:21	1	22AUG5MFS-44.d	Gemini C18 50mm 3 (mm)
410-90799-6	MW-110D	08/05/2022 21:34	1	22AUG5MFS-45.d	Gemini C18 50mm 3 (mm)
410-90799-7	MW-36D	08/05/2022 21:46	1	22AUG5MFS-46.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250 End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
410-90799-8	MW-42D	08/05/2022 21:59	1	22AUG5MFS-47.d	Gemini C18 50mm 3 (mm)
410-90799-9	EB_071122	08/05/2022 22:12	1	22AUG5MFS-48.d	Gemini C18 50mm 3 (mm)
CCVL 410-283250/50		08/05/2022 22:37	1	22AUG5MFS-50.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/08/2022 18:56

Analysis Batch Number: 283896 End Date: 08/08/2022 21:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283896/1		08/08/2022 18:56	1	22AUG08MFS-03.d	Gemini C18 50mm 3 (mm)
410-90799-10 DL	MW-43I DL	08/08/2022 19:08	10	22AUG08MFS-04.d	Gemini C18 50mm 3 (mm)
410-90799-12	MW-19D	08/08/2022 19:21	10	22AUG08MFS-05.d	Gemini C18 50mm 3 (mm)
410-90799-12 DL	MW-19D DL	08/08/2022 19:34	100	22AUG08MFS-06.d	Gemini C18 50mm 3 (mm)
410-90799-13 DL	MW-19I DL	08/08/2022 19:46	100	22AUG08MFS-07.d	Gemini C18 50mm 3 (mm)
410-90799-14 DL	MW-19S DL	08/08/2022 19:59	10	22AUG08MFS-08.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:11	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:49	1		Gemini C18 50mm 3 (mm)
CCV 410-283896/11		08/08/2022 21:02	1	22AUG08MFS-13.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/10/2022 01:08

Analysis Batch Number: 284258 End Date: 08/10/2022 01:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-284258/1		08/10/2022 01:08	1	22AUG09MFS-01.d	Gemini C18 50mm 3 (mm)
410-90799-13 RA	MW-19I RA	08/10/2022 01:22	1	22AUG09MFS-02.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 01:34	1		Gemini C18 50mm 3 (mm)
CCV 410-284258/4		08/10/2022 01:47	1	22AUG09MFS-04.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-90799-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/11/2022 01:16

Analysis Batch Number: 284700 End Date: 08/11/2022 02:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-284700/1		08/11/2022 01:16	1	22AUG10MFS-01.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/11/2022 01:30	10		Gemini C18 50mm 3 (mm)
410-90799-3 DL	MW-111S DL	08/11/2022 01:43	10	22AUG10MFS-03.d	Gemini C18 50mm 3 (mm)
410-90799-4 DL	MW-111D DL	08/11/2022 01:55	10	22AUG10MFS-04.d	Gemini C18 50mm 3 (mm)
CCV 410-284700/5		08/11/2022 02:08	1	22AUG10MFS-05.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 279532 Batch Start Date: 07/26/22 09:35 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00012
MB 410-279532/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279532/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90799-A-10	MW-43I	3535, MFS	T	327.78 g	27.34 g	300.4 mL	1 mL		0.1 mL
410-90799-A-11	MW-43D	3535, MFS	T	325.63 g	27.33 g	298.3 mL	1 mL		0.1 mL
410-90799-A-12	MW-19D	3535, MFS	T	321.96 g	27.50 g	294.5 mL	1 mL		0.1 mL
410-90799-A-13	MW-19I	3535, MFS	T	297.29 g	27.25 g	270 mL	1 mL		0.1 mL
410-90799-A-14	MW-19S	3535, MFS	T	323.10 g	27.30 g	295.8 mL	1 mL		0.1 mL
410-90799-A-15	MW-38D	3535, MFS	T	347.87 g	27.73 g	320.1 mL	1 mL		0.1 mL
410-90799-A-16	MW-33S	3535, MFS	T	323.40 g	27.56 g	295.8 mL	1 mL		0.1 mL
410-90799-A-17	MW-41D	3535, MFS	T	321.25 g	27.46 g	293.8 mL	1 mL		0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	11, 2
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3NH%4OH:MeOH
Solvent Lot #	4547707262233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	EBG 20094
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 279534 Batch Start Date: 07/26/22 09:37 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00013
MB 410-279534/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279534/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-90799-A-1	MW-124S	3535, MFS	T	345.06 g	27.53 g	317.5 mL	1 mL		0.1 mL
410-90799-A-2	MW-124D	3535, MFS	T	294.76 g	27.45 g	267.3 mL	1 mL		0.1 mL
410-90799-A-3	MW-111S	3535, MFS	T	302.00 g	27.41 g	274.6 mL	1 mL		0.1 mL
410-90799-A-4	MW-111D	3535, MFS	T	313.78 g	27.60 g	286.2 mL	1 mL		0.1 mL
410-90799-A-5	MW-110S	3535, MFS	T	308.76 g	27.62 g	281.1 mL	1 mL		0.1 mL
410-90799-A-6	MW-110D	3535, MFS	T	313.75 g	27.24 g	286.5 mL	1 mL		0.1 mL
410-90799-A-7	MW-36D	3535, MFS	T	317.93 g	27.31 g	290.6 mL	1 mL		0.1 mL
410-90799-A-8	MW-42D	3535, MFS	T	343.15 g	27.33 g	315.8 mL	1 mL		0.1 mL
410-90799-A-9	EB_071122	3535, MFS	T	278.73 g	27.38 g	251.4 mL	1 mL		0.1 mL

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	21, 8
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	4547707262233
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	EBG 20094
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-90799-1

SDG No.: _____

Batch Number: 283151 Batch Start Date: 08/05/22 08:53 Batch Analyst: Swan, Chris

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00010	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_MFS1 00009	PFC_STD_MFS2 00010	PFC_STD_MFS3 00008
IC 410-283151/1		MFS					200 uL		
IC 410-283151/2		MFS						200 uL	
IC 410-283151/3		MFS							200 uL
IC 410-283151/4		MFS							
ICISAV 410-283151/5		MFS							
IC 410-283151/6		MFS							
IC 410-283151/7		MFS							
ICB 410-283151/8		MFS			10 uL	50 uL			
ICV 410-283151/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00010	PFC_STD_MFS5 00008	PFC_STD_MFS6 00008	PFC_STD_MFS7 00008		
IC 410-283151/1		MFS							
IC 410-283151/2		MFS							
IC 410-283151/3		MFS							
IC 410-283151/4		MFS		200 uL					
ICISAV 410-283151/5		MFS			200 uL				
IC 410-283151/6		MFS				200 uL			
IC 410-283151/7		MFS					200 uL		
ICB 410-283151/8		MFS							
ICV 410-283151/9		MFS							

Batch Notes	
Mobil Phase ID	2886208022233B; 2996208022233D

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins Lancaster Laboratories Environme

2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax 717-656-2681

Chain of Custody Record



eurofins Environment Testing America

410-90799 Chain of Custody

Client Information	Sampler: <u>MJ/KO/MH/EK</u>	Lab PM: Zanar, Elizabeth M	JOC No: 110-60385-13447 1
Client Contact: Mr. Glenn Esler	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	Page: <u>1 of 2</u>
Company: Integral Consulting Inc	PWSID:	State or Union: <u>NJ</u>	Job #:

Address: 319 SW Washington Ave Suite 1150	Due Date Requested:	Analysis Requested	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)
City: Portland	TAT Requested (days): <u>Standard 10-Day</u>		
State, Zip: OR, 97204	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Phone: 503-943-3617(Tel)	PO #: <u>2501.024/3202</u>		
Email: gesler@integral-corp.com	WO #:		
Project Name: MFS/BFS	Project #: 41008576		
Site: <u>West Deptford, NJ</u>	SSOWN:	Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	MP# (Yes or No)	BFS_IDA, MFS_IDA	Number of Containers
MW-124S	7-11-22	1020	G	Water		X	
MW-124D		1010					
MW-111S		1330					
MW-111D		1410					
MW-110S		0945					
MW-110D		1028					
MW-36D		1425					
MW-42D		1615					
EB-071122		1345					
MW-43T	7-12-22	0925	G	Water		X	
MW-43D							

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV (Other) (specify) <u>WSDEP Full</u>	Special Instructions/QC Requirements: <u>See G. Esler for lab questions</u>

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <u>Megann J. Esler</u>	Date/Time: <u>7-12-22/1521</u>	Company: <u>Integral</u>	Received by: <u>[Signature]</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/12/22</u>	Company: <u>[Signature]</u>	Received by: <u>[Signature]</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/12/22</u>	Company: <u>[Signature]</u>	Received by: <u>[Signature]</u>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <u>3.0/0.1</u>	

NR

MR

Chain of Custody Record

Client Information		Sampler: <u>MJ/KO/MH/EK</u>		Lab PM: Zanar, Elizabeth M		Carrier Tracking No(s)		COC No: 410-60385-13447.1																							
Client Contact: Mr Glenn Esler		Phone		E-Mail: Elizabeth.Zanar@et.eurofinsus.com		State of Origin		Page <u>2 of 2</u>																							
Company: Integral Consulting Inc		PWSID		Analysis Requested						Job #																					
Address: 319 SW Washington Ave Suite 1150		Due Date Requested:		<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																										Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)	
City: Portland		TAT Requested (days): <u>10-Days / Standard</u>																													
State, Zip: OR, 97204		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																													
Phone: 503-943-3617(Tel)		PO #: <u>2501.02A/3202</u>																													
Email: gesler@integral-corp.com		WO #:		Total Number of containers BFS_IDA, MFS_IDA						Other:																					
Project Name: MFS/BFS		Project #: 41008576																													
Site: <u>West Deptford, NJ</u>		SSOW#:																													
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)		BFS_IDA		MFS_IDA		Special Instructions/Note:																	
<u>mw-19D</u>		<u>7-12-22</u>		<u>1030</u>		<u>G</u>		<u>Water</u>		<u>X</u>																					
<u>mw-19T</u>				<u>1110</u>																											
<u>mw-19S</u>				<u>1240</u>																											
<u>MW-38D</u>				<u>1140</u>																											
<u>MW-33S</u>				<u>1300</u>																											
<u>MW-41D</u>				<u>1435</u>																											
<u>EBU071222</u>																															
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																					
Deliverable Requested: I, II, III, IV, Other (Specify) <u>NSDEP Full</u>										Special Instructions/QC Requirements:																					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																							
Relinquished by: <u>Megan M. Jones</u>				Date/Time: <u>7-12-22 1521</u>		Company: <u>Intrepid</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/12/22 1521</u>		Company: <u>[Signature]</u>																			
Relinquished by: <u>[Signature]</u>				Date/Time: <u>7-12-22 1720</u>		Company: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/12/22 17:38</u>		Company: <u>ELLET</u>																			
Relinquished by: <u>[Signature]</u>				Date/Time:		Company:		Received by: <u>[Signature]</u>		Date/Time:		Company:																			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>3.0 0.1</u>																											

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 410-90799-1

Login Number: 90799

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Metzger, Katherine A

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

Job Number: 410-91186-1

Job Description: MFS/BFS

For:

Integral Consulting Inc
923 Haddonfield Road
Suite 300
Cherry Hill, NJ 08002
Attention: Erin Palko



Approved for release.
Elizabeth M Zanar
Project Manager
8/17/2022 4:04 PM

Elizabeth M Zanar, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7290
Elizabeth.Zanar@et.eurofinsus.com
08/17/2022

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-91186-1

Job Description: MFS/BFS

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Definitions/Glossary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-91186-1

Receipt

The samples were received on 7/14/2022 6:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-39I (410-91186-4). The container labels list 07/13/22 10:40, while the COC lists 07/13/22 & no time.

LCMS

Method BFS_IDA: Target analyte BFS_AB2 is outside of QC acceptance limits in the LCS/LCSD associated with samples: EB_071222 (410-91186-1). Since the result is high and BFS_AB2 is not detected in the samples, the data is reported.

Method BFS_IDA: The recovery for labeled isotope 13C3 HFPO-DA is outside of the QC acceptance limits in the initial in hold extraction for the following samples: MW-39D (410-91186-2), MW-39I (410-91186-4) and EB_071322 (410-91186-5). The following action was taken: The sample(s) was re-extracted one day outside of the 28 day holding time and the labeled isotope recovery was within the QC acceptance limits. The client was contacted and the data is reported from the out of hold extraction.

Method BFS_IDA: The recovery for labeled isotope 13C3 HFPO-DA is outside of the QC acceptance limits in the initial in hold extraction for the following sample: MW-39S (410-91186-3). The following action was taken: The sample(s) was re-extracted one day outside of the 28 day holding time and the labeled isotope recovery was within the QC acceptance limits. The client was contacted and the data is reported from the out of hold extraction.

Method MFS_IDA: Target analyte(s) MFS_N2 was detected in the following equipment blank sample: EB_071322 (410-91186-5). The following action was taken: The sample was re-extracted outside of the method holding time and no target analytes were detected in the re-extracted sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Client Sample ID: EB_071222

Lab Sample ID: 410-91186-1

No Detections.

Client Sample ID: MW-39D

Lab Sample ID: 410-91186-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.53	J H	1.2	0.34	ng/L	1		BFS	Total/NA
BFS_AB3	0.82	J H	1.3	0.34	ng/L	1		BFS	Total/NA
MFS_N2	23		0.84	0.17	ng/L	1		MFS	Total/NA
MFS_M3	0.91		0.84	0.17	ng/L	1		MFS	Total/NA
MFS_N3	2.3		0.84	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-39S

Lab Sample ID: 410-91186-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	1.7	H	1.2	0.35	ng/L	1		BFS	Total/NA
BFS_A3B	0.54	H	0.52	0.17	ng/L	1		BFS	Total/NA
BFS_AB2	0.73	H	0.52	0.069	ng/L	1		BFS	Total/NA
BFS_AB3	0.71	J H	1.3	0.35	ng/L	1		BFS	Total/NA
BFS_B3	1.2	H	0.61	0.26	ng/L	1		BFS	Total/NA
MFS_N2	22		0.85	0.17	ng/L	1		MFS	Total/NA
MFS_M3	0.53	J	0.85	0.17	ng/L	1		MFS	Total/NA
MFS_N3	1.9		0.85	0.17	ng/L	1		MFS	Total/NA

Client Sample ID: MW-39I

Lab Sample ID: 410-91186-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	330	H	1.2	0.36	ng/L	1		BFS	Total/NA
BFS_A2B3	7.7	H	0.98	0.36	ng/L	1		BFS	Total/NA
BFS_A3B	57	H	0.53	0.18	ng/L	1		BFS	Total/NA
BFS_A3B2	27	H	0.71	0.18	ng/L	1		BFS	Total/NA
BFS_A4B	24	H	0.36	0.18	ng/L	1		BFS	Total/NA
BFS_AB2	67	H	0.53	0.071	ng/L	1		BFS	Total/NA
BFS_AB3	270	H	1.3	0.36	ng/L	1		BFS	Total/NA
BFS_B3	200	H	0.62	0.27	ng/L	1		BFS	Total/NA
BFS_B4	29	H	0.98	0.36	ng/L	1		BFS	Total/NA
MFS_M3	45		0.86	0.17	ng/L	1		MFS	Total/NA
MFS_N3	13		0.86	0.17	ng/L	1		MFS	Total/NA
MFS_N2 - DL	1600		8.6	1.7	ng/L	10		MFS	Total/NA

Client Sample ID: EB_071322

Lab Sample ID: 410-91186-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MFS_N2	1.5	cn	0.88	0.18	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Client Sample ID: EB_071222

Lab Sample ID: 410-91186-1

Date Collected: 07/12/22 16:00

Matrix: Water

Date Received: 07/14/22 18:03

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND		1.3	0.36	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_A2B3	ND		1.0	0.36	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_A3B	ND		0.55	0.18	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_A3B2	ND		0.73	0.18	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_A4B	ND		0.36	0.18	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_AB2	ND	*+ cn	0.55	0.073	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_AB3	ND		1.4	0.36	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_B3	ND		0.64	0.27	ng/L		07/27/22 10:06	08/09/22 11:23	1
BFS_B4	ND		1.0	0.36	ng/L		07/27/22 10:06	08/09/22 11:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 150				07/27/22 10:06	08/09/22 11:23	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	ND		0.91	0.18	ng/L		07/26/22 09:35	08/05/22 15:40	1
MFS_M3	ND		0.91	0.18	ng/L		07/26/22 09:35	08/05/22 15:40	1
MFS_N3	ND		0.91	0.18	ng/L		07/26/22 09:35	08/05/22 15:40	1
MFS_M4	ND		0.91	0.45	ng/L		07/26/22 09:35	08/05/22 15:40	1
MFS_N4	ND		1.8	0.91	ng/L		07/26/22 09:35	08/05/22 15:40	1
MFS_N5	ND		2.7	1.8	ng/L		07/26/22 09:35	08/05/22 15:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 150				07/26/22 09:35	08/05/22 15:40	1

Client Sample ID: MW-39D

Lab Sample ID: 410-91186-2

Date Collected: 07/13/22 09:25

Matrix: Water

Date Received: 07/14/22 18:03

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.53	J H	1.2	0.34	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_A2B3	ND	H	0.94	0.34	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_A3B	ND	H	0.51	0.17	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_A3B2	ND	H	0.68	0.17	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_A4B	ND	H	0.34	0.17	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_AB2	ND	H	0.51	0.068	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_AB3	0.82	J H	1.3	0.34	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_B3	ND	H	0.60	0.26	ng/L		08/11/22 10:35	08/14/22 08:16	1
BFS_B4	ND	H	0.94	0.34	ng/L		08/11/22 10:35	08/14/22 08:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91	cn	50 - 150				08/11/22 10:35	08/14/22 08:16	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	23		0.84	0.17	ng/L		07/26/22 09:35	08/05/22 15:52	1
MFS_M3	0.91		0.84	0.17	ng/L		07/26/22 09:35	08/05/22 15:52	1
MFS_N3	2.3		0.84	0.17	ng/L		07/26/22 09:35	08/05/22 15:52	1
MFS_M4	ND		0.84	0.42	ng/L		07/26/22 09:35	08/05/22 15:52	1
MFS_N4	ND		1.7	0.84	ng/L		07/26/22 09:35	08/05/22 15:52	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:35	08/05/22 15:52	1

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Client Sample ID: MW-39D

Lab Sample ID: 410-91186-2

Date Collected: 07/13/22 09:25

Matrix: Water

Date Received: 07/14/22 18:03

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 150	07/26/22 09:35	08/05/22 15:52	1

Client Sample ID: MW-39S

Lab Sample ID: 410-91186-3

Date Collected: 07/13/22 09:30

Matrix: Water

Date Received: 07/14/22 18:03

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	1.7	H	1.2	0.35	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_A2B3	ND	H	0.95	0.35	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_A3B	0.54	H	0.52	0.17	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_A3B2	ND	H	0.69	0.17	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_A4B	ND	H	0.35	0.17	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_AB2	0.73	H	0.52	0.069	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_AB3	0.71	J H	1.3	0.35	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_B3	1.2	H	0.61	0.26	ng/L		08/11/22 10:35	08/15/22 09:50	1
BFS_B4	ND	H	0.95	0.35	ng/L		08/11/22 10:35	08/15/22 09:50	1
<hr/>									
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	97	cn	50 - 150	08/11/22 10:35	08/15/22 09:50	1			

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	22		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 16:05	1
MFS_M3	0.53	J	0.85	0.17	ng/L		07/26/22 09:35	08/05/22 16:05	1
MFS_N3	1.9		0.85	0.17	ng/L		07/26/22 09:35	08/05/22 16:05	1
MFS_M4	ND		0.85	0.42	ng/L		07/26/22 09:35	08/05/22 16:05	1
MFS_N4	ND		1.7	0.85	ng/L		07/26/22 09:35	08/05/22 16:05	1
MFS_N5	ND		2.5	1.7	ng/L		07/26/22 09:35	08/05/22 16:05	1
<hr/>									
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	93		50 - 150	07/26/22 09:35	08/05/22 16:05	1			

Client Sample ID: MW-39I

Lab Sample ID: 410-91186-4

Date Collected: 07/13/22 10:40

Matrix: Water

Date Received: 07/14/22 18:03

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	330	H	1.2	0.36	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_A2B3	7.7	H	0.98	0.36	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_A3B	57	H	0.53	0.18	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_A3B2	27	H	0.71	0.18	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_A4B	24	H	0.36	0.18	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_AB2	67	H	0.53	0.071	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_AB3	270	H	1.3	0.36	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_B3	200	H	0.62	0.27	ng/L		08/11/22 10:35	08/14/22 08:54	1
BFS_B4	29	H	0.98	0.36	ng/L		08/11/22 10:35	08/14/22 08:54	1
<hr/>									
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 HFPO-DA	115	cn	50 - 150	08/11/22 10:35	08/14/22 08:54	1			

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Client Sample ID: MW-39I

Lab Sample ID: 410-91186-4

Date Collected: 07/13/22 10:40

Matrix: Water

Date Received: 07/14/22 18:03

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_M3	45		0.86	0.17	ng/L		07/26/22 09:35	08/05/22 16:18	1
MFS_N3	13		0.86	0.17	ng/L		07/26/22 09:35	08/05/22 16:18	1
MFS_M4	ND		0.86	0.43	ng/L		07/26/22 09:35	08/05/22 16:18	1
MFS_N4	ND		1.7	0.86	ng/L		07/26/22 09:35	08/05/22 16:18	1
MFS_N5	ND		2.6	1.7	ng/L		07/26/22 09:35	08/05/22 16:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 150				07/26/22 09:35	08/05/22 16:18	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1600		8.6	1.7	ng/L		07/26/22 09:35	08/08/22 20:11	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	98		50 - 150				07/26/22 09:35	08/08/22 20:11	10

Client Sample ID: EB_071322

Lab Sample ID: 410-91186-5

Date Collected: 07/13/22 10:15

Matrix: Water

Date Received: 07/14/22 18:03

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	ND	H	1.3	0.36	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_A2B3	ND	H	0.99	0.36	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_A3B	ND	H	0.54	0.18	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_A3B2	ND	H	0.72	0.18	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_A4B	ND	H	0.36	0.18	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_AB2	ND	H	0.54	0.072	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_AB3	ND	H	1.4	0.36	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_B3	ND	H	0.63	0.27	ng/L		08/11/22 10:35	08/14/22 09:06	1
BFS_B4	ND	H	0.99	0.36	ng/L		08/11/22 10:35	08/14/22 09:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	122	cn	50 - 150				08/11/22 10:35	08/14/22 09:06	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	1.5	cn	0.88	0.18	ng/L		07/26/22 09:35	08/05/22 16:30	1
MFS_M3	ND		0.88	0.18	ng/L		07/26/22 09:35	08/05/22 16:30	1
MFS_N3	ND		0.88	0.18	ng/L		07/26/22 09:35	08/05/22 16:30	1
MFS_M4	ND		0.88	0.44	ng/L		07/26/22 09:35	08/05/22 16:30	1
MFS_N4	ND		1.8	0.88	ng/L		07/26/22 09:35	08/05/22 16:30	1
MFS_N5	ND		2.6	1.8	ng/L		07/26/22 09:35	08/05/22 16:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 150				07/26/22 09:35	08/05/22 16:30	1

Default Detection Limits

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
BFS_A2B2	1.4	0.40	ng/L
BFS_A2B3	1.1	0.40	ng/L
BFS_A3B	0.60	0.20	ng/L
BFS_A3B2	0.80	0.20	ng/L
BFS_A4B	0.40	0.20	ng/L
BFS_AB2	0.60	0.080	ng/L
BFS_AB3	1.5	0.40	ng/L
BFS_B3	0.70	0.30	ng/L
BFS_B4	1.1	0.40	ng/L

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Prep: 3535

Analyte	RL	MDL	Units
MFS_M3	1.0	0.20	ng/L
MFS_M4	1.0	0.50	ng/L
MFS_N2	1.0	0.20	ng/L
MFS_N3	1.0	0.20	ng/L
MFS_N4	2.0	1.0	ng/L
MFS_N5	3.0	2.0	ng/L

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-91186-1	EB_071222	99
410-91186-2	MW-39D	91 cn
410-91186-3	MW-39S	97 cn
410-91186-4	MW-39I	115 cn
410-91186-5	EB_071322	122 cn
LCS 410-279976/2-A	Lab Control Sample	95
LCS 410-285075/2-A	Lab Control Sample	106
LCSD 410-279976/3-A	Lab Control Sample Dup	90
LCSD 410-285075/3-A	Lab Control Sample Dup	97
MB 410-279976/1-A	Method Blank	94
MB 410-285075/1-A	Method Blank	100

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-91186-1	EB_071222	91
410-91186-2	MW-39D	101
410-91186-3	MW-39S	93
410-91186-4	MW-39I	99
410-91186-4 - DL	MW-39I	98
410-91186-5	EB_071322	96
LCS 410-279532/2-A	Lab Control Sample	89
MB 410-279532/1-A	Method Blank	85

Surrogate Legend

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-279976/1-A
Matrix: Water
Analysis Batch: 283897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279976

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A2B3	ND		1.1	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A3B	ND		0.60	0.20	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A3B2	ND		0.80	0.20	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_A4B	ND		0.40	0.20	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_AB2	ND		0.60	0.080	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_AB3	ND		1.5	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_B3	ND		0.70	0.30	ng/L		07/27/22 10:06	08/09/22 08:51	1
BFS_B4	ND		1.1	0.40	ng/L		07/27/22 10:06	08/09/22 08:51	1
		MB	MB						
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C3 HFPO-DA	94		50 - 150			07/27/22 10:06	08/09/22 08:51	1	

Lab Sample ID: LCS 410-279976/2-A
Matrix: Water
Analysis Batch: 284260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
BFS_A2B2	250	284		ng/L		114	70 - 130		
BFS_A2B3	4.72	5.20		ng/L		110	70 - 130		
BFS_A3B	35.8	42.3		ng/L		118	70 - 130		
BFS_A3B2	47.2	53.1		ng/L		113	70 - 130		
BFS_A4B	19.8	21.6		ng/L		109	70 - 130		
BFS_AB2	32.1	45.2	*+	ng/L		141	70 - 130		
BFS_AB3	268	301		ng/L		113	70 - 130		
BFS_B3	114	129		ng/L		113	70 - 130		
BFS_B4	62.2	72.5		ng/L		117	70 - 130		
		LCS	LCS						
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	95		50 - 150						

Lab Sample ID: LCSD 410-279976/3-A
Matrix: Water
Analysis Batch: 284260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
BFS_A2B2	250	294		ng/L		118	70 - 130	4	30
BFS_A2B3	4.72	5.97		ng/L		127	70 - 130	14	30
BFS_A3B	35.8	44.8		ng/L		125	70 - 130	6	30
BFS_A3B2	47.2	57.1		ng/L		121	70 - 130	7	30
BFS_A4B	19.8	22.5		ng/L		114	70 - 130	4	30
BFS_AB2	32.1	48.5	*+	ng/L		151	70 - 130	7	30
BFS_AB3	268	324		ng/L		121	70 - 130	7	30
BFS_B3	114	134		ng/L		117	70 - 130	4	30
BFS_B4	62.2	78.6		ng/L		126	70 - 130	8	30
		LCSD	LCSD						
Isotope Dilution	%Recovery	Qualifier	Limits						
13C3 HFPO-DA	90		50 - 150						

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution (Continued)

Lab Sample ID: MB 410-285075/1-A
Matrix: Water
Analysis Batch: 285708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 285075

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_A2B3	ND		1.1	0.40	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_A3B	ND		0.60	0.20	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_A3B2	ND		0.80	0.20	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_A4B	ND		0.40	0.20	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_AB2	ND		0.60	0.080	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_AB3	ND		1.5	0.40	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_B3	ND		0.70	0.30	ng/L		08/11/22 10:35	08/14/22 05:57	1
BFS_B4	ND		1.1	0.40	ng/L		08/11/22 10:35	08/14/22 05:57	1
Isotope Dilution	MB	MB	Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C3 HFPO-DA	100		50 - 150				08/11/22 10:35	08/14/22 05:57	1

Lab Sample ID: LCS 410-285075/2-A
Matrix: Water
Analysis Batch: 285708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 285075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
								RPD	Limit	
BFS_A2B2	250	246		ng/L		98	70 - 130			
BFS_A2B3	4.72	4.16		ng/L		88	70 - 130			
BFS_A3B	35.8	39.5		ng/L		110	70 - 130			
BFS_A3B2	47.2	44.0		ng/L		93	70 - 130			
BFS_A4B	19.8	20.1		ng/L		101	70 - 130			
BFS_AB2	32.1	37.7		ng/L		118	70 - 130			
BFS_AB3	268	246		ng/L		92	70 - 130			
BFS_B3	114	125		ng/L		110	70 - 130			
BFS_B4	62.2	60.1		ng/L		97	70 - 130			
Isotope Dilution	LCS	LCS	Limits			D	%Rec	%Rec Limits	RPD	Limit
	%Recovery	Qualifier								
13C3 HFPO-DA	106		50 - 150							

Lab Sample ID: LCSD 410-285075/3-A
Matrix: Water
Analysis Batch: 285708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 285075

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
										BFS_A2B2
BFS_A2B3	4.72	4.48		ng/L		95	70 - 130	7	30	
BFS_A3B	35.8	42.7		ng/L		119	70 - 130	8	30	
BFS_A3B2	47.2	47.8		ng/L		101	70 - 130	8	30	
BFS_A4B	19.8	21.5		ng/L		109	70 - 130	7	30	
BFS_AB2	32.1	41.1		ng/L		128	70 - 130	9	30	
BFS_AB3	268	272		ng/L		102	70 - 130	10	30	
BFS_B3	114	131		ng/L		115	70 - 130	4	30	
BFS_B4	62.2	63.8		ng/L		103	70 - 130	6	30	
Isotope Dilution	LCSD	LCSD	Limits			D	%Rec	%Rec Limits	RPD	Limit
	%Recovery	Qualifier								
13C3 HFPO-DA	97		50 - 150							

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-279532/1-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279532

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_M3	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N3	ND		1.0	0.20	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_M4	ND		1.0	0.50	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N4	ND		2.0	1.0	ng/L		07/26/22 09:35	08/05/22 12:31	1
MFS_N5	ND		3.0	2.0	ng/L		07/26/22 09:35	08/05/22 12:31	1
MB MB									
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	85		50 - 150				07/26/22 09:35	08/05/22 12:31	1

Lab Sample ID: LCS 410-279532/2-A
Matrix: Water
Analysis Batch: 283250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec
MFS_N2	38.6	41.7		ng/L		108	70 - 130	
MFS_M3	39.4	42.4		ng/L		108	70 - 130	
MFS_N3	40.1	40.3		ng/L		101	70 - 130	
MFS_M4	39.3	42.0		ng/L		107	70 - 130	
MFS_N4	39.8	41.7		ng/L		105	70 - 130	
MFS_N5	40.4	41.7		ng/L		103	70 - 130	
LCS LCS								
Isotope Dilution	%Recovery	Qualifier	Limits					
13C3 HFPO-DA	89		50 - 150					

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

LCMS

Prep Batch: 279532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-1	EB_071222	Total/NA	Water	3535	
410-91186-2	MW-39D	Total/NA	Water	3535	
410-91186-3	MW-39S	Total/NA	Water	3535	
410-91186-4 - DL	MW-39I	Total/NA	Water	3535	
410-91186-4	MW-39I	Total/NA	Water	3535	
410-91186-5	EB_071322	Total/NA	Water	3535	
MB 410-279532/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279532/2-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 279976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-1	EB_071222	Total/NA	Water	3535	
410-91186-2 - RE	MW-39D	Total/NA	Water	3535	
410-91186-3 - RE	MW-39S	Total/NA	Water	3535	
410-91186-4 - RE	MW-39I	Total/NA	Water	3535	
410-91186-5 - RE	EB_071322	Total/NA	Water	3535	
MB 410-279976/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-279976/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 410-279976/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 283250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-1	EB_071222	Total/NA	Water	MFS	279532
410-91186-2	MW-39D	Total/NA	Water	MFS	279532
410-91186-3	MW-39S	Total/NA	Water	MFS	279532
410-91186-4	MW-39I	Total/NA	Water	MFS	279532
410-91186-5	EB_071322	Total/NA	Water	MFS	279532
MB 410-279532/1-A	Method Blank	Total/NA	Water	MFS	279532
LCS 410-279532/2-A	Lab Control Sample	Total/NA	Water	MFS	279532

Analysis Batch: 283896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-4 - DL	MW-39I	Total/NA	Water	MFS	279532

Analysis Batch: 283897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-1	EB_071222	Total/NA	Water	BFS	279976
MB 410-279976/1-A	Method Blank	Total/NA	Water	BFS	279976

Analysis Batch: 284260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-2 - RE	MW-39D	Total/NA	Water	BFS	279976
410-91186-3 - RE	MW-39S	Total/NA	Water	BFS	279976
410-91186-4 - RE	MW-39I	Total/NA	Water	BFS	279976
410-91186-5 - RE	EB_071322	Total/NA	Water	BFS	279976
LCS 410-279976/2-A	Lab Control Sample	Total/NA	Water	BFS	279976
LCSD 410-279976/3-A	Lab Control Sample Dup	Total/NA	Water	BFS	279976

Prep Batch: 285075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-2	MW-39D	Total/NA	Water	3535	

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

LCMS (Continued)

Prep Batch: 285075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-3	MW-39S	Total/NA	Water	3535	
410-91186-4	MW-39I	Total/NA	Water	3535	
410-91186-5	EB_071322	Total/NA	Water	3535	
MB 410-285075/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-285075/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 410-285075/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 285099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-5 - RE	EB_071322	Total/NA	Water	3535	
MB 410-285099/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-285099/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 410-285099/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 285703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-5 - RE	EB_071322	Total/NA	Water	MFS	285099
MB 410-285099/1-A	Method Blank	Total/NA	Water	MFS	285099
LCS 410-285099/2-A	Lab Control Sample	Total/NA	Water	MFS	285099
LCSD 410-285099/3-A	Lab Control Sample Dup	Total/NA	Water	MFS	285099

Analysis Batch: 285708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-2	MW-39D	Total/NA	Water	BFS	285075
410-91186-4	MW-39I	Total/NA	Water	BFS	285075
410-91186-5	EB_071322	Total/NA	Water	BFS	285075
MB 410-285075/1-A	Method Blank	Total/NA	Water	BFS	285075
LCS 410-285075/2-A	Lab Control Sample	Total/NA	Water	BFS	285075
LCSD 410-285075/3-A	Lab Control Sample Dup	Total/NA	Water	BFS	285075

Analysis Batch: 285953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-91186-3	MW-39S	Total/NA	Water	BFS	285075

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Client Sample ID: EB_071222

Lab Sample ID: 410-91186-1

Date Collected: 07/12/22 16:00

Matrix: Water

Date Received: 07/14/22 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS		1	283897	JVK6	ELLE	08/09/22 11:23
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 15:40

Client Sample ID: MW-39D

Lab Sample ID: 410-91186-2

Date Collected: 07/13/22 09:25

Matrix: Water

Date Received: 07/14/22 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	RE		279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS	RE	1	284260	JVK6	ELLE	08/10/22 05:48
Total/NA	Prep	3535			285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS		1	285708	JVK6	ELLE	08/14/22 08:16
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 15:52

Client Sample ID: MW-39S

Lab Sample ID: 410-91186-3

Date Collected: 07/13/22 09:30

Matrix: Water

Date Received: 07/14/22 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	RE		279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS	RE	1	284260	JVK6	ELLE	08/10/22 06:01
Total/NA	Prep	3535			285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS		1	285953	JVK6	ELLE	08/15/22 09:50
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 16:05

Client Sample ID: MW-39I

Lab Sample ID: 410-91186-4

Date Collected: 07/13/22 10:40

Matrix: Water

Date Received: 07/14/22 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	RE		279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS	RE	1	284260	JVK6	ELLE	08/10/22 06:13
Total/NA	Prep	3535			285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS		1	285708	JVK6	ELLE	08/14/22 08:54
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 16:18
Total/NA	Prep	3535	DL		279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS	DL	10	283896	JVK6	ELLE	08/08/22 20:11

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Client Sample ID: EB_071322

Lab Sample ID: 410-91186-5

Date Collected: 07/13/22 10:15

Matrix: Water

Date Received: 07/14/22 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535	RE		279976	S7AC	ELLE	07/27/22 10:06
Total/NA	Analysis	BFS	RE	1	284260	JVK6	ELLE	08/10/22 06:26
Total/NA	Prep	3535			285075	D5VP	ELLE	08/11/22 10:35
Total/NA	Analysis	BFS		1	285708	JVK6	ELLE	08/14/22 09:06
Total/NA	Prep	3535			279532	S7AC	ELLE	07/26/22 09:35
Total/NA	Analysis	MFS		1	283250	DCS9	ELLE	08/05/22 16:30
Total/NA	Prep	3535	RE		285099	D5VP	ELLE	08/11/22 11:17
Total/NA	Analysis	MFS	RE	1	285703	JVK6	ELLE	08/14/22 01:31

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
BFS	3535	Water	BFS_A2B2
BFS	3535	Water	BFS_A2B3
BFS	3535	Water	BFS_A3B
BFS	3535	Water	BFS_A3B2
BFS	3535	Water	BFS_A4B
BFS	3535	Water	BFS_AB2
BFS	3535	Water	BFS_AB3
BFS	3535	Water	BFS_B3
BFS	3535	Water	BFS_B4
MFS	3535	Water	MFS_M3
MFS	3535	Water	MFS_M4
MFS	3535	Water	MFS_N2
MFS	3535	Water	MFS_N3
MFS	3535	Water	MFS_N4
MFS	3535	Water	MFS_N5

Method Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Method	Method Description	Protocol	Laboratory
BFS	Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
MFS	Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

Client = Client derived Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-91186-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-91186-1	EB_071222	Water	07/12/22 16:00	07/14/22 18:03
410-91186-2	MW-39D	Water	07/13/22 09:25	07/14/22 18:03
410-91186-3	MW-39S	Water	07/13/22 09:30	07/14/22 18:03
410-91186-4	MW-39I	Water	07/13/22 10:40	07/14/22 18:03
410-91186-5	EB_071322	Water	07/13/22 10:15	07/14/22 18:03

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/1 Client Sample ID: _____

Date Analyzed: 08/09/22 00:03 Lab File ID: 22AUG08BFSCAL-03.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.97	Baseline	JVK6	08/09/22 07:38
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:39
BFS_B3	4.22	Baseline	JVK6	08/09/22 07:39
BFS_A2B2	4.32	Baseline	JVK6	08/09/22 07:39
BFS_A4B	4.41	Baseline	JVK6	08/09/22 07:39
BFS_A3B2	4.69	Baseline	JVK6	08/09/22 07:39
BFS_B4	4.82	Baseline	JVK6	08/09/22 07:40

Lab Sample ID: IC 410-283892/2 Client Sample ID: _____

Date Analyzed: 08/09/22 00:15 Lab File ID: 22AUG08BFSCAL-04.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A4B	4.40	Baseline	JVK6	08/09/22 07:40

Lab Sample ID: IC 410-283892/3 Client Sample ID: _____

Date Analyzed: 08/09/22 00:28 Lab File ID: 22AUG08BFSCAL-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:41
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:41
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:41
BFS_A2B3	4.94	Baseline	JVK6	08/09/22 07:41

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/4 Client Sample ID: _____

Date Analyzed: 08/09/22 00:40 Lab File ID: 22AUG08BFSCAL-06.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 07:41

Lab Sample ID: ICISAV 410-283892/5 Client Sample ID: _____

Date Analyzed: 08/09/22 00:53 Lab File ID: 22AUG08BFSCAL-07.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.21	Baseline	JVK6	08/09/22 07:37
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:37
BFS_A2B3	4.92	Baseline	JVK6	08/09/22 07:36

Lab Sample ID: IC 410-283892/6 Client Sample ID: _____

Date Analyzed: 08/09/22 01:06 Lab File ID: 22AUG08BFSCAL-08.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:42

Lab Sample ID: IC 410-283892/7 Client Sample ID: _____

Date Analyzed: 08/09/22 01:18 Lab File ID: 22AUG08BFSCAL-09.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.95	Baseline	JVK6	08/09/22 07:42
BFS_A3B	4.03	Baseline	JVK6	08/09/22 07:42
BFS_B3	4.19	Baseline	JVK6	08/09/22 07:42
BFS_A2B2	4.30	Baseline	JVK6	08/09/22 07:42
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:42

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: IC 410-283892/8 Client Sample ID: _____

Date Analyzed: 08/09/22 01:31 Lab File ID: 22AUG08BFSCAL-10.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:43
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:43

Lab Sample ID: IC 410-283892/9 Client Sample ID: _____

Date Analyzed: 08/09/22 01:43 Lab File ID: 22AUG08BFSCAL-11.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:43
BFS_A3B	4.03	Baseline	JVK6	08/09/22 07:43
BFS_B3	4.19	Baseline	JVK6	08/09/22 07:43
BFS_A2B2	4.30	Baseline	JVK6	08/09/22 07:43
BFS_A4B	4.39	Baseline	JVK6	08/09/22 07:43
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:43

Lab Sample ID: IC 410-283892/10 Client Sample ID: _____

Date Analyzed: 08/09/22 01:56 Lab File ID: 22AUG08BFSCAL-12.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:44
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:44
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:44
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283892

Lab Sample ID: ICV 410-283892/12 Client Sample ID: _____

Date Analyzed: 08/09/22 02:21 Lab File ID: 22AUG08BFSCAL-14.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 07:45
BFS_A3B	4.04	Baseline	JVK6	08/09/22 07:45
BFS_B3	4.20	Baseline	JVK6	08/09/22 07:44
BFS_A2B2	4.31	Baseline	JVK6	08/09/22 07:44
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 07:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283897

Lab Sample ID: CCVL 410-283897/1 Client Sample ID: _____

Date Analyzed: 08/09/22 02:46 Lab File ID: 22AUG05BFS-01.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/09/22 08:18
BFS_A3B	4.04	Baseline	JVK6	08/09/22 08:18
BFS_A4B	4.39	Baseline	JVK6	08/09/22 08:18
BFS_B4	4.79	Baseline	JVK6	08/09/22 08:18

Lab Sample ID: CCV 410-283897/29 Client Sample ID: _____

Date Analyzed: 08/09/22 08:39 Lab File ID: 22AUG05BFS-29.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	08/09/22 10:10

Lab Sample ID: CCV 410-283897/41 Client Sample ID: _____

Date Analyzed: 08/09/22 11:10 Lab File ID: 22AUG05BFS-41.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/09/22 12:33

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 284260

Lab Sample ID: CCVL 410-284260/1 Client Sample ID: _____

Date Analyzed: 08/10/22 02:25 Lab File ID: 22AUG09BFS-01.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.97	Baseline	JVK6	08/10/22 11:06
BFS_A3B	4.05	Baseline	JVK6	08/10/22 11:06
BFS_B3	4.20	Baseline	JVK6	08/10/22 11:06
BFS_A4B	4.40	Baseline	JVK6	08/10/22 11:06

Lab Sample ID: CCV 410-284260/4 Client Sample ID: _____

Date Analyzed: 08/10/22 03:04 Lab File ID: 22AUG09BFS-04.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.90	Baseline	JVK6	08/10/22 11:07

Lab Sample ID: LCS 410-279976/2-A Client Sample ID: _____

Date Analyzed: 08/10/22 03:17 Lab File ID: 22AUG09BFS-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/10/22 12:31

Lab Sample ID: CCV 410-284260/16 Client Sample ID: _____

Date Analyzed: 08/10/22 05:35 Lab File ID: 22AUG09BFS-16.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.91	Baseline	JVK6	08/10/22 11:07

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 284260

Lab Sample ID: 410-91186-2 RE Client Sample ID: MW-39D RE

Date Analyzed: 08/10/22 05:48 Lab File ID: 22AUG09BFS-17.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	4.38	Baseline	JVK6	08/10/22 12:34

Lab Sample ID: CCV 410-284260/21 Client Sample ID: _____

Date Analyzed: 08/10/22 06:38 Lab File ID: 22AUG09BFS-21.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.96	Baseline	JVK6	08/10/22 11:08
BFS_A2B3	4.91	Baseline	JVK6	08/10/22 11:08

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285706

Lab Sample ID: IC 410-285706/1 Client Sample ID: _____

Date Analyzed: 08/14/22 02:34 Lab File ID: 22AUG13BFS-01.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.94	Baseline	JVK6	08/15/22 07:23
BFS_A3B	4.02	Baseline	JVK6	08/15/22 07:24
BFS_B3	4.16	Baseline	JVK6	08/15/22 07:24
BFS_A3B2	4.64	Baseline	JVK6	08/15/22 07:23

Lab Sample ID: IC 410-285706/2 Client Sample ID: _____

Date Analyzed: 08/14/22 02:48 Lab File ID: 22AUG13BFS-02.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B2	4.27	Baseline	JVK6	08/15/22 07:24

Lab Sample ID: IC 410-285706/3 Client Sample ID: _____

Date Analyzed: 08/14/22 03:01 Lab File ID: 22AUG13BFS-03.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A4B	4.36	Baseline	JVK6	08/15/22 07:25
BFS_A2B3	4.86	Baseline	JVK6	08/15/22 07:25

Lab Sample ID: IC 410-285706/4 Client Sample ID: _____

Date Analyzed: 08/14/22 03:13 Lab File ID: 22AUG13BFS-04.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.86	Baseline	JVK6	08/15/22 07:25

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285706

Lab Sample ID: ICISAV 410-285706/5 Client Sample ID: _____

Date Analyzed: 08/14/22 03:26 Lab File ID: 22AUG13BFS-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.86	Baseline	JVK6	08/15/22 07:25

Lab Sample ID: IC 410-285706/6 Client Sample ID: _____

Date Analyzed: 08/14/22 03:39 Lab File ID: 22AUG13BFS-06.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	08/15/22 07:26

Lab Sample ID: IC 410-285706/7 Client Sample ID: _____

Date Analyzed: 08/14/22 03:51 Lab File ID: 22AUG13BFS-07.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:26

Lab Sample ID: ICV 410-285706/12 Client Sample ID: _____

Date Analyzed: 08/14/22 04:54 Lab File ID: 22AUG13BFS-12.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:27

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285708

Lab Sample ID: CCVL 410-285708/1 Client Sample ID: _____

Date Analyzed: 08/14/22 05:32 Lab File ID: 22AUG13BFS-15.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.92	Baseline	JVK6	08/15/22 07:34
BFS_A3B	4.00	Baseline	JVK6	08/15/22 07:34
BFS_B3	4.15	Baseline	JVK6	08/15/22 07:34
BFS_A2B2	4.26	Baseline	JVK6	08/15/22 07:34
BFS_A4B	4.35	Baseline	JVK6	08/15/22 07:34
BFS_AB3	4.52	Baseline	JVK6	08/15/22 07:34
BFS_A3B2	4.62	Baseline	JVK6	08/15/22 07:34

Lab Sample ID: CCV 410-285708/2 Client Sample ID: _____

Date Analyzed: 08/14/22 05:45 Lab File ID: 22AUG13BFS-16.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:35

Lab Sample ID: LCS 410-285075/2-A Client Sample ID: _____

Date Analyzed: 08/14/22 06:10 Lab File ID: 22AUG13BFS-18.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:37
13C2 PFOA	4.96	Peak assignment corrected	JVK6	08/15/22 07:37

Lab Sample ID: LCSD 410-285075/3-A Client Sample ID: _____

Date Analyzed: 08/14/22 06:22 Lab File ID: 22AUG13BFS-19.d GC Column: Gemini C18 50 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.87	Baseline	JVK6	08/15/22 07:38
13C2 PFOA	4.96	Peak assignment corrected	JVK6	08/15/22 07:37

BFS

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285708

Lab Sample ID: 410-91186-2 Client Sample ID: MW-39D

Date Analyzed: 08/14/22 08:16 Lab File ID: 22AUG13BFS-28.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B2	4.27	Baseline	JVK6	08/15/22 07:43

Lab Sample ID: CCV 410-285708/16 Client Sample ID: _____

Date Analyzed: 08/14/22 08:41 Lab File ID: 22AUG13BFS-30.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	08/15/22 07:35

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 285953

Lab Sample ID: CCVL 410-285953/1 Client Sample ID: _____

Date Analyzed: 08/15/22 09:11 Lab File ID: 22AUG15BFS-05.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB2	3.94	Baseline	JVK6	08/15/22 11:29
BFS_A3B	4.02	Baseline	JVK6	08/15/22 11:29
BFS_B3	4.18	Baseline	JVK6	08/15/22 11:29
BFS_B4	4.78	Baseline	JVK6	08/15/22 11:29

Lab Sample ID: CCV 410-285953/2 Client Sample ID: _____

Date Analyzed: 08/15/22 09:25 Lab File ID: 22AUG15BFS-06.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.88	Baseline	JVK6	08/15/22 11:29

Lab Sample ID: 410-91186-3 Client Sample ID: MW-39S

Date Analyzed: 08/15/22 09:50 Lab File ID: 22AUG15BFS-08.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_AB3	4.56	Peak assignment corrected	JVK6	08/15/22 11:30

Lab Sample ID: CCV 410-285953/5 Client Sample ID: _____

Date Analyzed: 08/15/22 10:03 Lab File ID: 22AUG15BFS-09.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
BFS_A2B3	4.89	Baseline	JVK6	08/15/22 11:30

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Analysis Batch Number: 283250

Lab Sample ID: CCV 410-283250/7 Client Sample ID: _____

Date Analyzed: 08/05/22 13:34 Lab File ID: 22AUG5MFS-07.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_M3	5.86	Baseline	DCS9	08/06/22 11:01

Lab Sample ID: CCVL 410-283250/23 Client Sample ID: _____

Date Analyzed: 08/05/22 16:56 Lab File ID: 22AUG5MFS-23.d GC Column: Gemini C18 50 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MFS_N2	5.25	Baseline	DCS9	08/06/22 11:02

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_BFS_00006	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL	
							BFS_A2B3	0.654875 ng/mL	
							BFS_A3B	4.97698 ng/mL	
							BFS_A3B2	6.54868 ng/mL	
							BFS_A4B	2.75045 ng/mL	
							BFS_AB2	4.4531 ng/mL	
							BFS_AB3	37.1964 ng/mL	
							BFS_B3	15.8478 ng/mL	
							BFS_B4	8.64425 ng/mL	
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL	
							BFS_A2B3	261.95 ng/mL	
							BFS_A3B	1990.79 ng/mL	
							BFS_A3B2	2619.47 ng/mL	
							BFS_A4B	1100.18 ng/mL	
							BFS_AB2	1781.24 ng/mL	
							BFS_AB3	14878.6 ng/mL	
							BFS_B3	6339.11 ng/mL	
							BFS_B4	3457.7 ng/mL	
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	BFS_A2B2	1388320 ng/mL
								BFS_A2B3	26195 ng/mL
								BFS_A3B	199079 ng/mL
								BFS_A3B2	261947 ng/mL
								BFS_A4B	110018 ng/mL
								BFS_AB2	178124 ng/mL
								BFS_AB3	1487860 ng/mL
								BFS_B3	633911 ng/mL
								BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL	
..PFC_ST_01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_ST_01249	0.025 mL	13C2 PFOA	5 ng/mL	
.PFC_ST_01249	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL	
PFC_ICV_MFS_00010	10/20/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL	
							MFS_M3	0.984766 ng/mL	
							MFS_N3	1.00129 ng/mL	
							MFS_M4	0.981629 ng/mL	
							MFS_N4	0.995152 ng/mL	
							MFS_N5	1.00979 ng/mL	
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL	
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS_N2	96.3932 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
.PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
..PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
...PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
...PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
...PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
...PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
...PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
...PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
PFC_IN_BFS_00016	08/14/22	03/29/22	Methanol, Lot 2732102212233A	10 mL	PFC_IN_BFS_00011	1 mL	BFS A2B2	1388.32 ng/mL
							BFS A2B3	26.195 ng/mL
							BFS A3B	199.079 ng/mL
							BFS A3B2	261.947 ng/mL
							BFS A4B	110.018 ng/mL
							BFS AB2	178.124 ng/mL
							BFS AB3	1487.86 ng/mL
							BFS B3	633.911 ng/mL
							BFS B4	345.77 ng/mL
.PFC_IN_BFS_00011	08/14/22	02/14/22	Methanol, Lot 2732101212233A	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC IS MOD 00364	08/22/22	07/22/22	Methanol, Lot ED531-US	10 mL	PFC ST 01680	0.5 mL	13C2 PFOA	100 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PFC IS MOD 00371	10/03/22	08/03/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01726	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC IS MOD 00374	10/05/22	08/08/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01726	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC IS MOD 00377	09/11/22	08/11/22	Methanol, Lot ED531-US	10 mL	PFC_ST_01726	0.5 mL	13C2 PFOA	100 ng/mL
.PFC_ST_01726	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC SS 00012	09/27/22	07/05/22	Methanol, Lot 220054	10 mL	PFC_INT_00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC SS 00013	09/25/22	07/25/22	Methanol, Lot 220054	10 mL	PFC_INT_00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC SS 00014	10/01/22	08/01/22	Methanol, Lot ED531-US	10 mL	PFC_INT_00012	1 mL	13C3 HFPO-DA	50 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
PFC_STD_BFS1_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.025 mL	BFS_A2B2	0.347079 ng/mL
							BFS_A2B3	0.00654875 ng/mL
							BFS_A3B	0.0497698 ng/mL
							BFS_A3B2	0.0654867 ng/mL
							BFS_A4B	0.0275045 ng/mL
							BFS_AB2	0.044531 ng/mL
							BFS_AB3	0.371964 ng/mL
							BFS_B3	0.158478 ng/mL
							BFS_B4	0.0864425 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS_A3B	19.9079 ng/mL
							BFS_A3B2	26.1947 ng/mL
							BFS_A4B	11.0018 ng/mL
							BFS_AB2	17.8124 ng/mL
							BFS_AB3	148.786 ng/mL
							BFS_B3	63.3911 ng/mL
							BFS_B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS10_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.5 mL	BFS A2B2	694.159 ng/mL
							BFS A2B3	13.0975 ng/mL
							BFS A3B	99.5395 ng/mL
							BFS A3B2	130.974 ng/mL
							BFS A4B	55.009 ng/mL
							BFS AB2	89.062 ng/mL
							BFS AB3	743.928 ng/mL
							BFS B3	316.955 ng/mL
							BFS B4	172.885 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS2_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.075 mL	BFS A2B2	1.04124 ng/mL
							BFS A2B3	0.0196463 ng/mL
							BFS A3B	0.149309 ng/mL
							BFS A3B2	0.19646 ng/mL
							BFS A4B	0.0825135 ng/mL
							BFS AB2	0.133593 ng/mL
							BFS AB3	1.11589 ng/mL
							BFS B3	0.475433 ng/mL
							BFS B4	0.259327 ng/mL
					PFC_INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS3_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.2 mL	BFS A2B2	2.77663 ng/mL
							BFS A2B3	0.05239 ng/mL
							BFS_A3B	0.398158 ng/mL
							BFS_A3B2	0.523894 ng/mL
							BFS_A4B	0.220036 ng/mL
							BFS_AB2	0.356248 ng/mL
							BFS AB3	2.97571 ng/mL
							BFS B3	1.26782 ng/mL
							BFS B4	0.69154 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS4_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	0.5 mL	BFS A2B2	6.94158 ng/mL
							BFS A2B3	0.130975 ng/mL
							BFS A3B	0.995395 ng/mL
							BFS A3B2	1.30974 ng/mL
							BFS A4B	0.55009 ng/mL
							BFS AB2	0.89062 ng/mL
							BFS AB3	7.43928 ng/mL
							BFS B3	3.16955 ng/mL
							BFS B4	1.72885 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI		(Purchased Reagent)		BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC_INT__00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS5_00005	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00018	1 mL	BFS A2B2	13.8832 ng/mL
							BFS A2B3	0.26195 ng/mL
							BFS A3B	1.99079 ng/mL
							BFS A3B2	2.61947 ng/mL
							BFS A4B	1.10018 ng/mL
							BFS AB2	1.78124 ng/mL
							BFS AB3	14.8786 ng/mL
							BFS B3	6.33911 ng/mL
							BFS B4	3.4577 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00018	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS_A2B2	138.832 ng/mL
							BFS_A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
..PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
...PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS6_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.025 mL	BFS_A2B2	34.7079 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS_A2B3	0.654875 ng/mL
							BFS_A3B	4.97698 ng/mL
							BFS_A3B2	6.54868 ng/mL
							BFS_A4B	2.75045 ng/mL
							BFS_AB2	4.4531 ng/mL
							BFS_AB3	37.1964 ng/mL
							BFS_B3	15.8478 ng/mL
							BFS_B4	8.64425 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL
							BFS_A3B2	2619.47 ng/mL
							BFS_A4B	1100.18 ng/mL
							BFS_AB2	1781.24 ng/mL
							BFS_AB3	14878.6 ng/mL
							BFS_B3	6339.11 ng/mL
							BFS_B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI				(Purchased Reagent)	
							BFS_A2B2	1388320 ng/mL
							BFS_A2B3	26195 ng/mL
							BFS_A3B	199079 ng/mL
							BFS_A3B2	261947 ng/mL
							BFS_A4B	110018 ng/mL
							BFS_AB2	178124 ng/mL
							BFS_AB3	1487860 ng/mL
							BFS_B3	633911 ng/mL
							BFS_B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121				(Purchased Reagent)	
							13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516				(Purchased Reagent)	
							13C2 PFOA	2000 ng/mL
PFC_STD_BFS7_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.05 mL	BFS_A2B2	69.4159 ng/mL
							BFS_A2B3	1.30975 ng/mL
							BFS_A3B	9.95395 ng/mL
							BFS_A3B2	13.0974 ng/mL
							BFS_A4B	5.5009 ng/mL
							BFS_AB2	8.9062 ng/mL
							BFS_AB3	74.3928 ng/mL
							BFS_B3	31.6956 ng/mL
							BFS_B4	17.2885 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS_A2B3	261.95 ng/mL
							BFS_A3B	1990.79 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01597	04/26/26		Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)	13C2 PFOA	2000 ng/mL
PFC_STD_BFS8_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.1 mL	BFS A2B2	138.832 ng/mL
							BFS A2B3	2.6195 ng/mL
							BFS A3B	19.9079 ng/mL
							BFS A3B2	26.1947 ng/mL
							BFS A4B	11.0018 ng/mL
							BFS AB2	17.8124 ng/mL
							BFS AB3	148.786 ng/mL
							BFS B3	63.3911 ng/mL
							BFS B4	34.577 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01597	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS_A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
..PFC_ST_BFS_00003	02/14/23		Solvay, Lot BFS 1206SI			(Purchased Reagent)	BFS A2B2	1388320 ng/mL
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_BFS9_00004	08/16/22	05/16/22	Methanol, Lot ED412-US	10 mL	PFC_IN_BFS_00017	0.2 mL	BFS A2B2	277.663 ng/mL
							BFS A2B3	5.239 ng/mL
							BFS A3B	39.8158 ng/mL
							BFS A3B2	52.3894 ng/mL
							BFS A4B	22.0036 ng/mL
							BFS AB2	35.6248 ng/mL
							BFS AB3	297.571 ng/mL
							BFS B3	126.782 ng/mL
							BFS B4	69.154 ng/mL
							PFC INT 00012	0.1 mL
PFC ST 01597	0.025 mL	13C2 PFOA	5 ng/mL					
.PFC_IN_BFS_00017	11/12/22	05/12/22	Methanol, Lot 2732105122233D	10 mL	PFC_ST_BFS_00003	0.1 mL	BFS A2B2	13883.2 ng/mL
							BFS A2B3	261.95 ng/mL
							BFS A3B	1990.79 ng/mL
							BFS A3B2	2619.47 ng/mL
							BFS A4B	1100.18 ng/mL
							BFS AB2	1781.24 ng/mL
							BFS AB3	14878.6 ng/mL
							BFS B3	6339.11 ng/mL
							BFS B4	3457.7 ng/mL
							..PFC_ST_BFS_00003	02/14/23
							BFS A2B3	26195 ng/mL
							BFS A3B	199079 ng/mL
							BFS A3B2	261947 ng/mL
							BFS A4B	110018 ng/mL
							BFS AB2	178124 ng/mL
							BFS AB3	1487860 ng/mL
							BFS B3	633911 ng/mL
							BFS B4	345770 ng/mL
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24	Wellington Laboratories, Lot M3HFPODA1121			(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01597	04/26/26	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS1_00009	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.025 mL	MFS_N2	0.240983 ng/mL
							MFS_M3	0.246191 ng/mL
							MFS_N3	0.250322 ng/mL
							MFS_M4	0.245407 ng/mL
							MFS_N4	0.248788 ng/mL
							MFS_N5	0.252449 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
.PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
.PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN_MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN_MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN_MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN_MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
.PFC_IN_MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
.PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
.PFC_IN_MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
.PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
.PFC_IN_MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
.PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
.PFC_IN_MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
.PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
.PFC_IN_MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
.PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
.PFC_IN_MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
.PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
.PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS2_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.05 mL	MFS_N2	0.481966 ng/mL
							MFS_M3	0.492383 ng/mL
							MFS_N3	0.500644 ng/mL
							MFS_M4	0.490814 ng/mL
							MFS_N4	0.497576 ng/mL
							MFS_N5	0.504897 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
					PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS3_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.1 mL	MFS_N2	0.963932 ng/mL
							MFS_M3	0.984766 ng/mL
							MFS_N3	1.00129 ng/mL
							MFS_M4	0.981629 ng/mL
							MFS_N4	0.995152 ng/mL
							MFS_N5	1.00979 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
					PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS_M3	98.4766 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS4_00010	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	0.5 mL	MFS N2	4.81966 ng/mL
							MFS M3	4.92383 ng/mL
							MFS N3	5.00644 ng/mL
							MFS M4	4.90814 ng/mL
							MFS N4	4.97576 ng/mL
							MFS N5	5.04897 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS_M3	1969.53 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC_IN_MFS_00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC_IN_MFS_00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC_IN_MFS_00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC_IN_MFS_00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC_IN_MFS_00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01719	0.0506 g	MFS N2	963932 ug/L
.....PFC_ST_01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC_IN_MFS_00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01721	0.0512 g	MFS M3	984766 ug/L
.....PFC_ST_01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC_IN_MFS_00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC_ST_01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC_IN_MFS_00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01723	0.0506 g	MFS M4	981629 ug/L
.....PFC_ST_01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC_IN_MFS_00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01724	0.0512 g	MFS N4	995152 ug/L
.....PFC_ST_01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC_IN_MFS_00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC_ST_01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC_ST_01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC_INT_00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC_ST_01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC_ST_01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS5_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	1 mL	MFS N2	9.63932 ng/mL
							MFS M3	9.84766 ng/mL
							MFS N3	10.0129 ng/mL
							MFS M4	9.81629 ng/mL
							MFS N4	9.95152 ng/mL
							MFS N5	10.0979 ng/mL
					PFC_INT_00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC_ST_01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_MFS_00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC_IN_MFS_00029	0.5 mL	MFS_M3	49238.3 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
.....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
.....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
.....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
.....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
.....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS6_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	2.5 mL	MFS N2	24.0983 ng/mL
							MFS M3	24.6191 ng/mL
							MFS N3	25.0322 ng/mL
							MFS M4	24.5407 ng/mL
							MFS N4	24.8788 ng/mL
							MFS N5	25.2449 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
.....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL
PFC_STD_MFS7_00008	10/04/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00718	5 mL	MFS N2	48.1966 ng/mL
							MFS M3	49.2383 ng/mL
							MFS N3	50.0644 ng/mL
							MFS M4	49.0814 ng/mL
							MFS N4	49.7576 ng/mL
							MFS N5	50.4897 ng/mL
					PFC INT 00012	0.1 mL	13C3 HFPO-DA	5 ng/mL
					PFC ST 01680	0.025 mL	13C2 PFOA	5 ng/mL
.PFC_IN_00718	11/10/22	07/04/22	Methanol, Lot 220054	20 mL	PFC_IN_00717	1 mL	MFS N2	96.3932 ng/mL
							MFS M3	98.4766 ng/mL
							MFS N3	100.129 ng/mL
							MFS M4	98.1629 ng/mL
							MFS N4	99.5152 ng/mL
							MFS N5	100.979 ng/mL
..PFC_IN_00717	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC_IN_00716	0.4 mL	MFS N2	1927.86 ng/mL
							MFS M3	1969.53 ng/mL
							MFS N3	2002.58 ng/mL
							MFS M4	1963.26 ng/mL
							MFS N4	1990.3 ng/mL
							MFS N5	2019.59 ng/mL
...PFC_IN_00716	11/10/22	07/04/22	Methanol, Lot 220054	10 mL	PFC IN MFS 00028	0.5 mL	MFS N2	48196.6 ng/mL
					PFC IN MFS 00029	0.5 mL	MFS M3	49238.3 ng/mL
					PFC IN MFS 00030	0.5 mL	MFS N3	50064.4 ng/mL
					PFC IN MFS 00031	0.5 mL	MFS M4	49081.4 ng/mL
					PFC IN MFS 00032	0.5 mL	MFS N4	49757.6 ng/mL
					PFC IN MFS 00033	0.5 mL	MFS N5	50489.7 ng/mL
....PFC IN MFS 00028	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01719	0.0506 g	MFS N2	963932 ug/L
....PFC ST 01719	11/10/22		Solvay, Lot 148/64		(Purchased Reagent)		MFS N2	952502 mg/Kg
....PFC IN MFS 00029	11/10/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01721	0.0512 g	MFS M3	984766 ug/L
....PFC ST 01721	11/10/22		Solvay, Lot 148/61		(Purchased Reagent)		MFS M3	961685 mg/Kg
....PFC IN MFS 00030	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01722	0.0519 g	MFS N3	1001290 ug/L
....PFC ST 01722	11/11/22		Solvay, Lot 148/72		(Purchased Reagent)		MFS N3	964633 mg/Kg
....PFC IN MFS 00031	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01723	0.0506 g	MFS M4	981629 ug/L
....PFC ST 01723	11/11/22		Solvay, Lot 148/74		(Purchased Reagent)		MFS M4	969989 mg/Kg

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....PFC IN MFS 00032	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01724	0.0512 g	MFS N4	995152 ug/L
....PFC ST 01724	11/11/22		Solvay, Lot 148/46		(Purchased Reagent)		MFS N4	971828 mg/Kg
....PFC IN MFS 00033	11/11/22	07/02/22	Methanol, Lot 220054	50 mL	PFC ST 01725	0.0517 g	MFS N5	1009790 ug/L
....PFC ST 01725	11/11/22		Solvay, Lot 148/22		(Purchased Reagent)		MFS N5	976590 mg/Kg
.PFC INT 00012	11/12/22	05/12/22	Methanol, Lot 217031	10 mL	PFC ST 01410	0.1 mL	13C3 HFPO-DA	500 ng/mL
..PFC ST 01410	11/11/24		Wellington Laboratories, Lot M3HFPODA1121		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC ST 01680	06/10/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFOA	2000 ng/mL

Reagent

PFC_ST_01249



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

- Table A: Components and Concentrations of the Solution/Mixture
- Figure 1: LC/MS Data (SIR)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

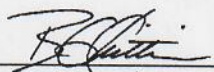
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

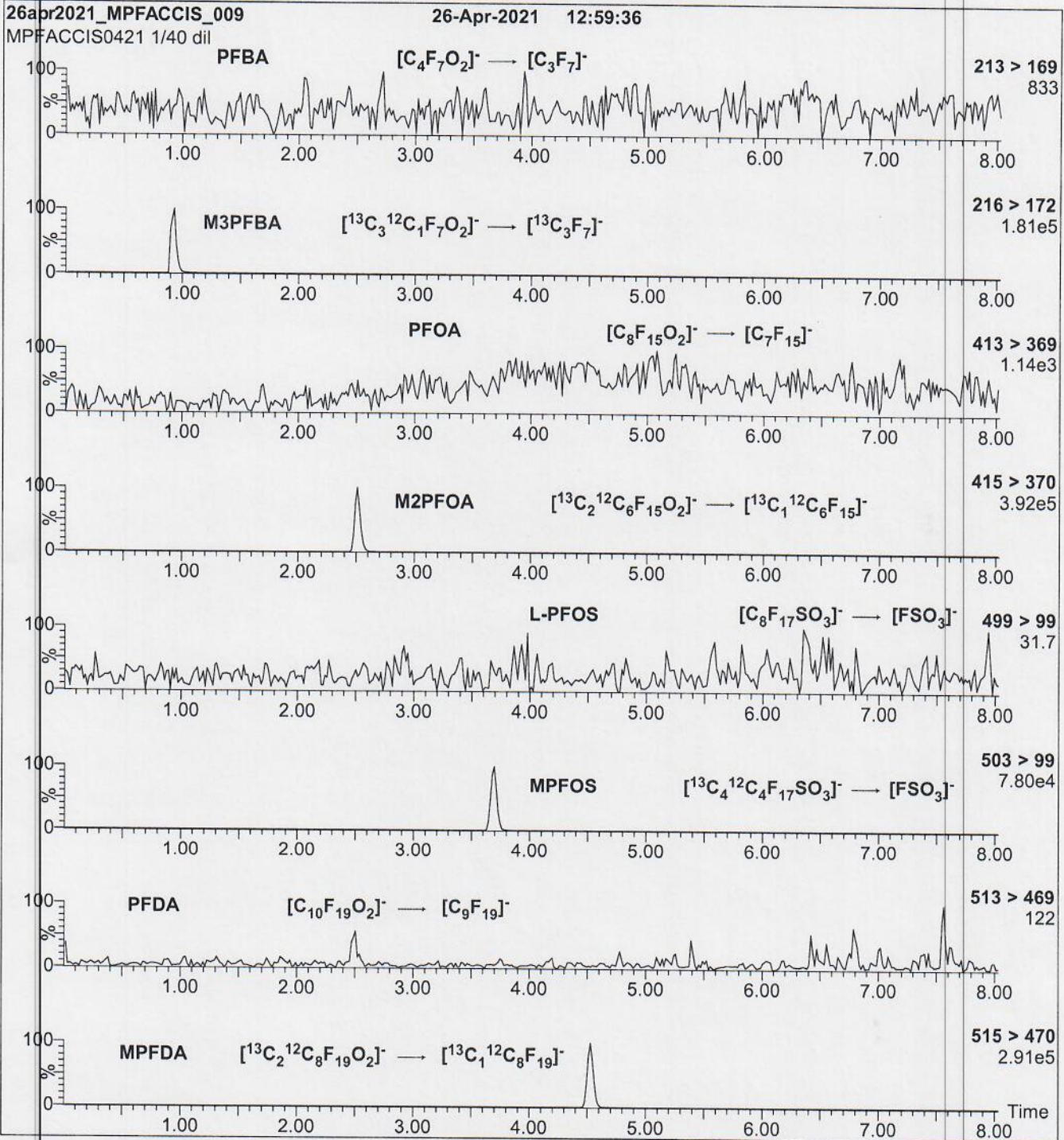
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3

Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01410



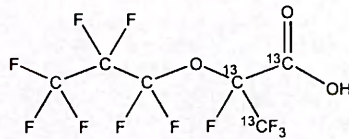
WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

AFC-ST-01410

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA1121
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)^(13C₃)propanoic acid

STRUCTURE: **CAS #:** Not available



410-2416299

MOLECULAR FORMULA: ¹³C₃¹²C₃HF₁₁O₃ **MOLECULAR WEIGHT:** 333.03
CONCENTRATION: 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 11/11/2021
EXPIRY DATE: (mm/dd/yyyy) 11/11/2024
RECOMMENDED STORAGE: Refrigerate ampoule

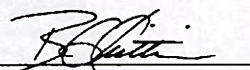
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (Full Scan and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 11/16/2021
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

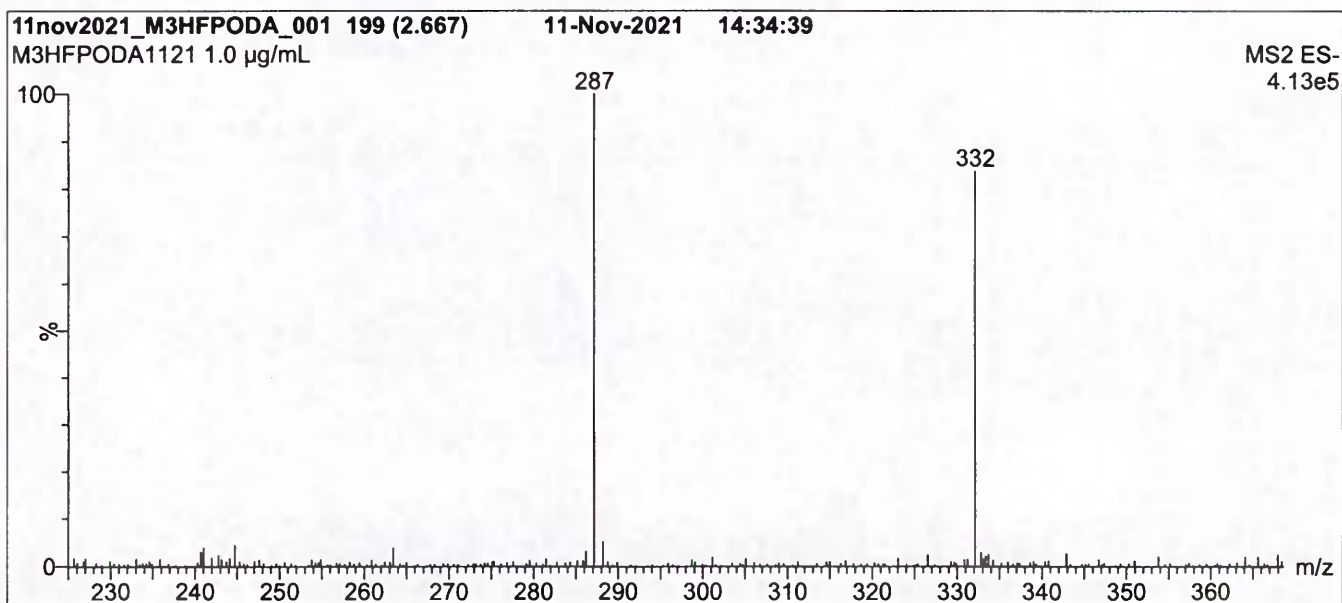
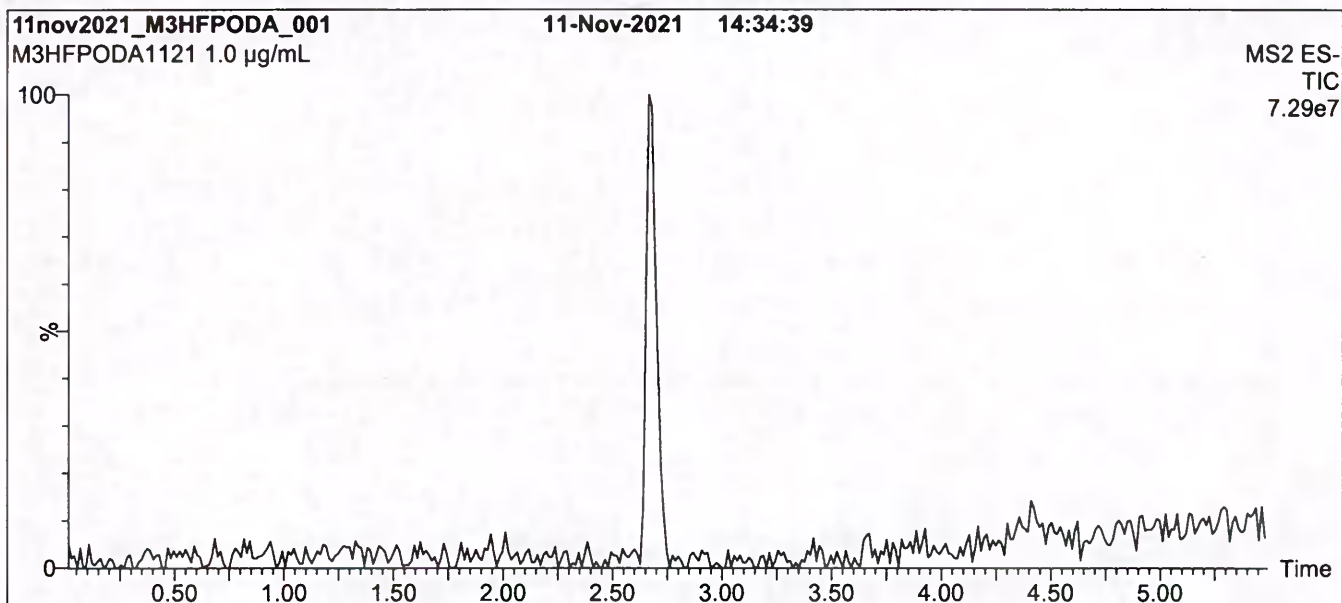
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: M3HFPO-DA; LC/MS Data (Full Scan and Mass Spectrum)



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H₂O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 9 min and hold for
1 min before returning to initial conditions in 0.75 min.
Time: 12 min

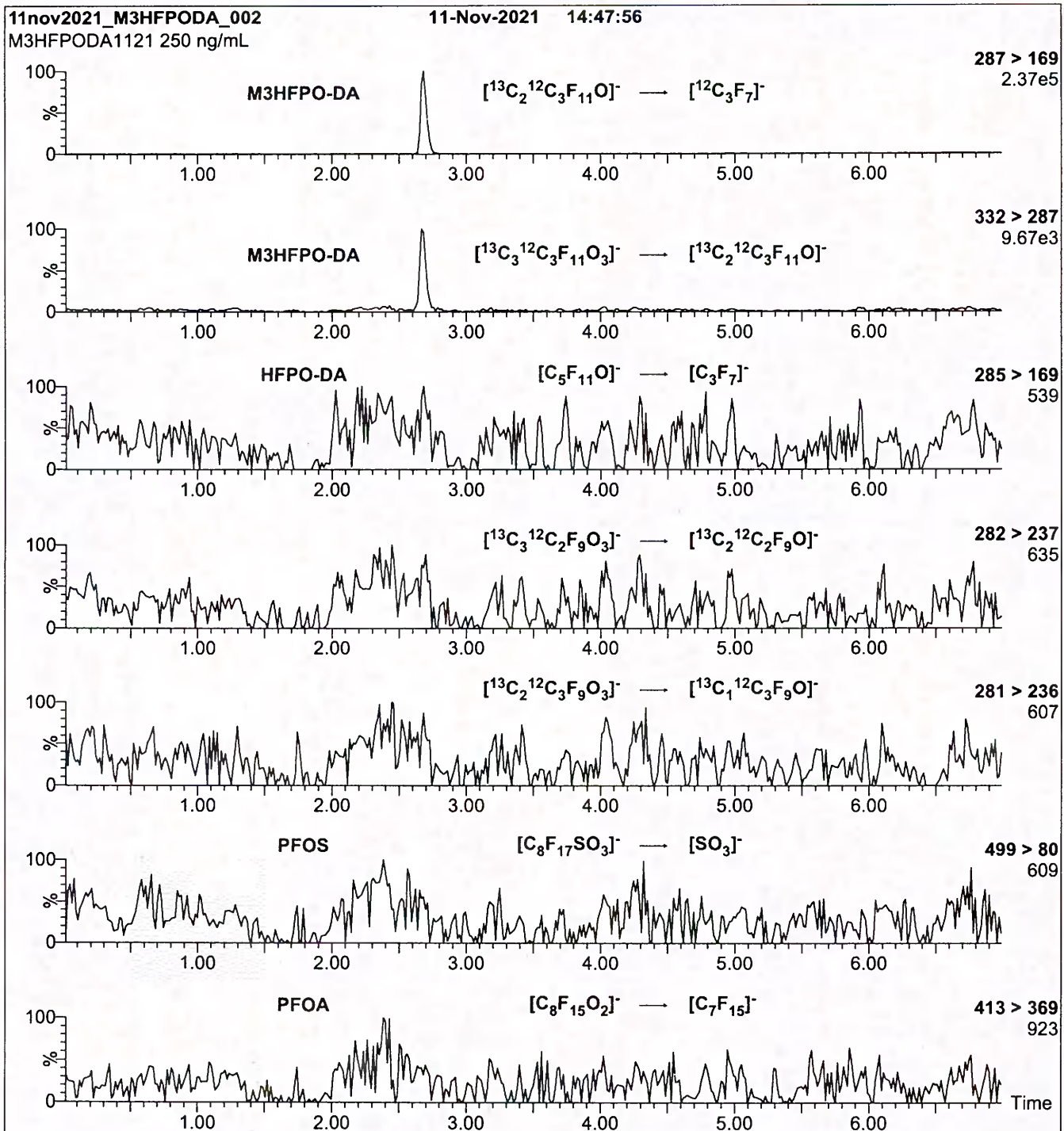
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.75
Cone Voltage (V) = 15.00
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (M3HFPO-DA)
Mobile phase: Same as Figure 1
Flow: 300 $\mu\text{L}/\text{min}$

MS Parameters:

Collision Gas (mbar) = 3.37e-3
Collision Energy (eV) = 8

Reagent

PFC_ST_01597



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2748760
ID: PFC_ST_01597
Exp: 04/26/26 Prpd: PY40
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
 Figure 1: LC/MS Data (SIR)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

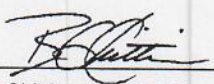
- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

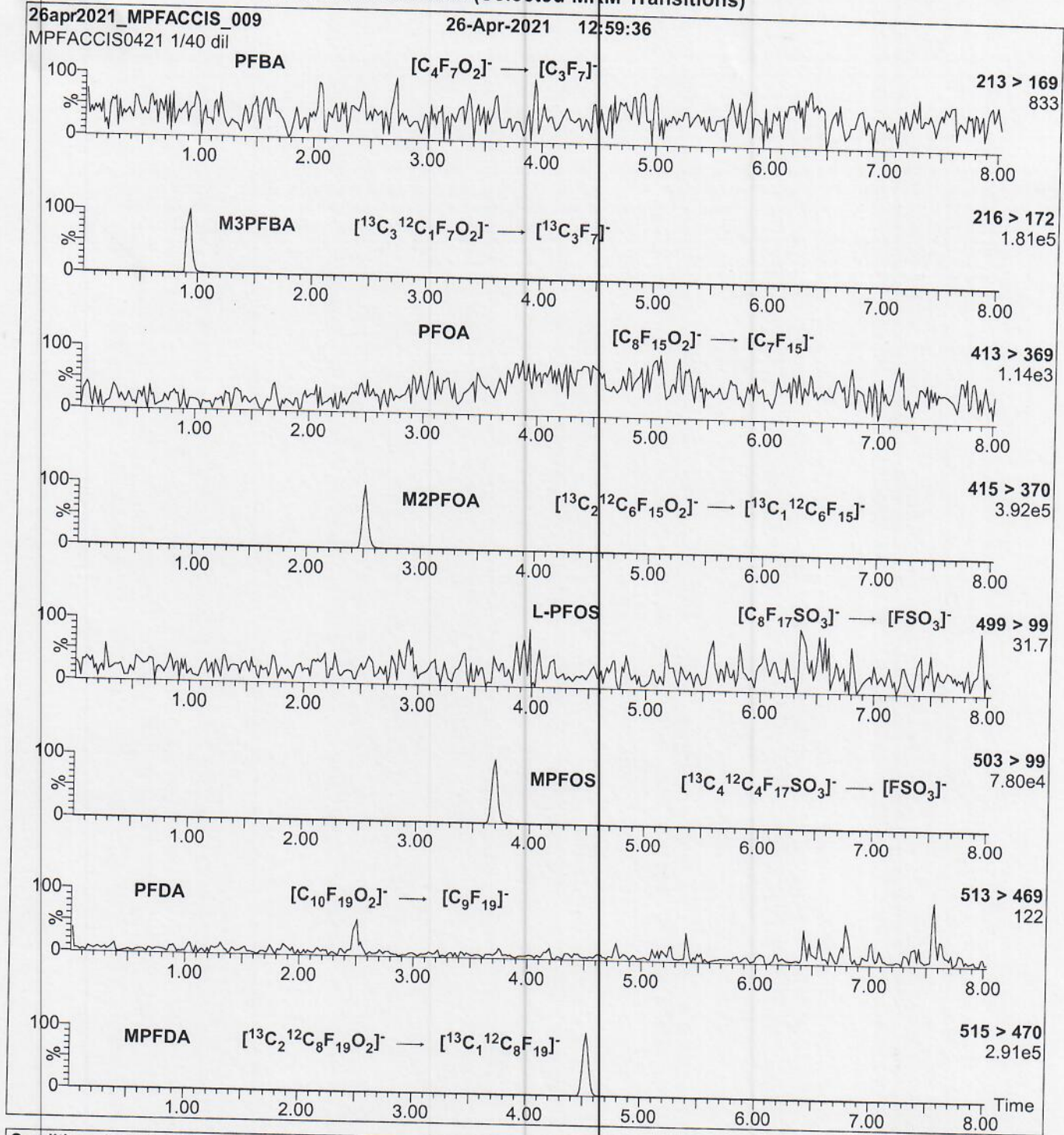
Table A: MPFAC-C-IS; Components and Concentrations (ng/mL; ± 5% in methanol/water (<1%))

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-(2,3,4- ¹³ C ₃)butanoic acid	M3PFBA	2000	A
Perfluoro-n-(1,2- ¹³ C ₂)octanoic acid	M2PFOA	2000	B
Perfluoro-n-(1,2- ¹³ C ₂)decanoic acid	MPFDA	2000	D
Sodium perfluoro-1-(1,2,3,4- ¹³ C ₄)octanesulfonate	MPFOS	2000	C

Certified By: 
 B.G. Chittim, General Manager

Date: 04/30/2021
(mm/dd/yyyy)

Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01680



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**


2858245
ID: PFC_ST_01680
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

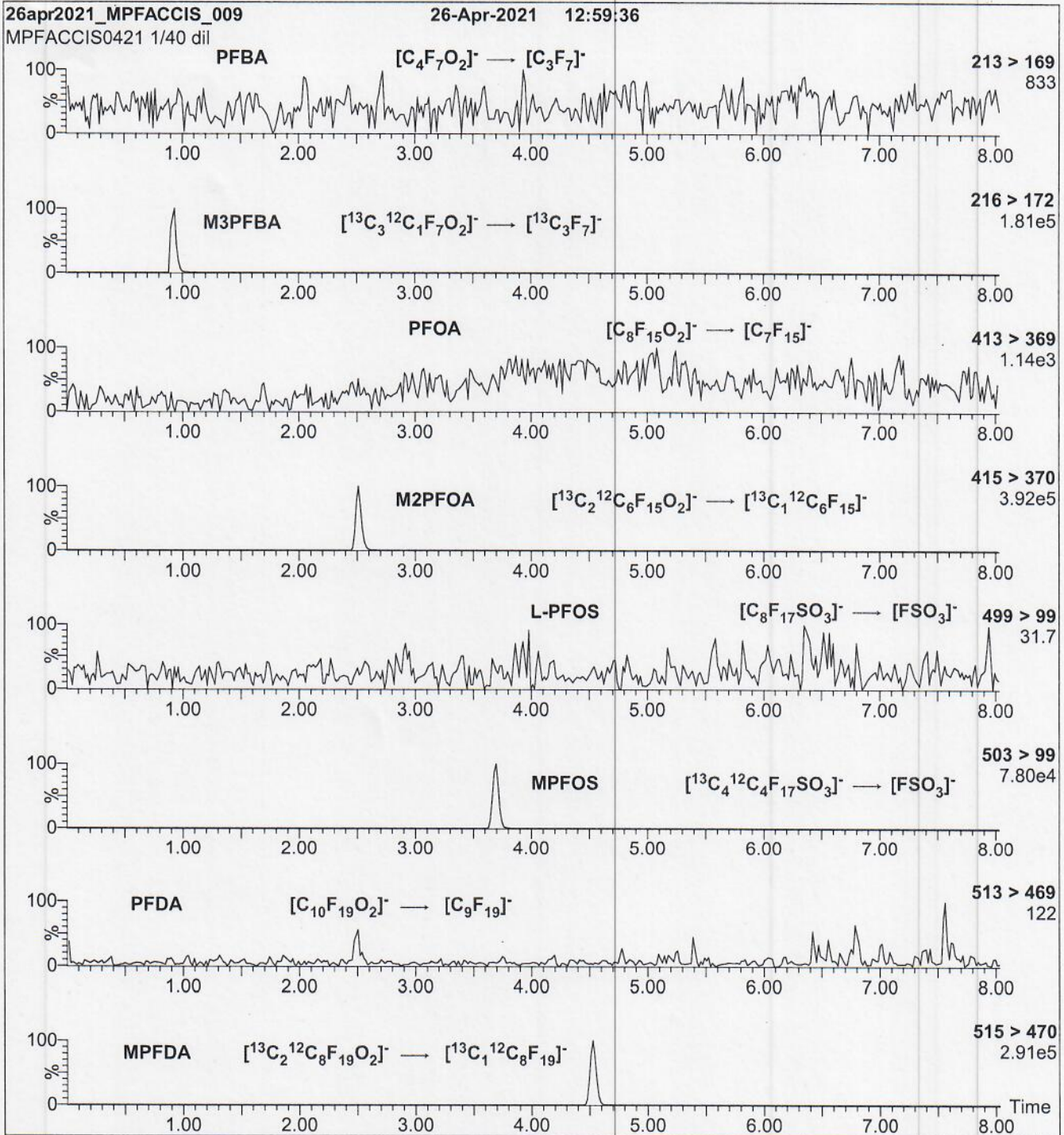
ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

Reagent

PFC_ST_01726



MPFAC-C-IS

**Mass-Labelled Perfluorinated
Compound Injection Standards Solution**



2984963
ID: PFC_ST_01726
Exp: 04/26/26 Prpd: PY4D
Mass Labeled PFC Injectio

PRODUCT CODE: MPFAC-C-IS
LOT NUMBER: MPFACCIS0421
SOLVENT(S): Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy) 04/21/2021
LAST TESTED: (mm/dd/yyyy) 04/26/2021
EXPIRY DATE: (mm/dd/yyyy) 04/26/2026
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-C-IS is a solution/mixture of mass-labelled (¹³C) perfluoroalkylcarboxylic acids and a mass-labelled (¹³C) perfluoroalkylsulfonate. The components and their concentrations are given in Table A.

MPFAC-C-IS was designed for, and prepared to be used with, PFC-CVS-C.

The individual ¹³C-labelled perfluoroalkylcarboxylic acids and perfluoroalkylsulfonate all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

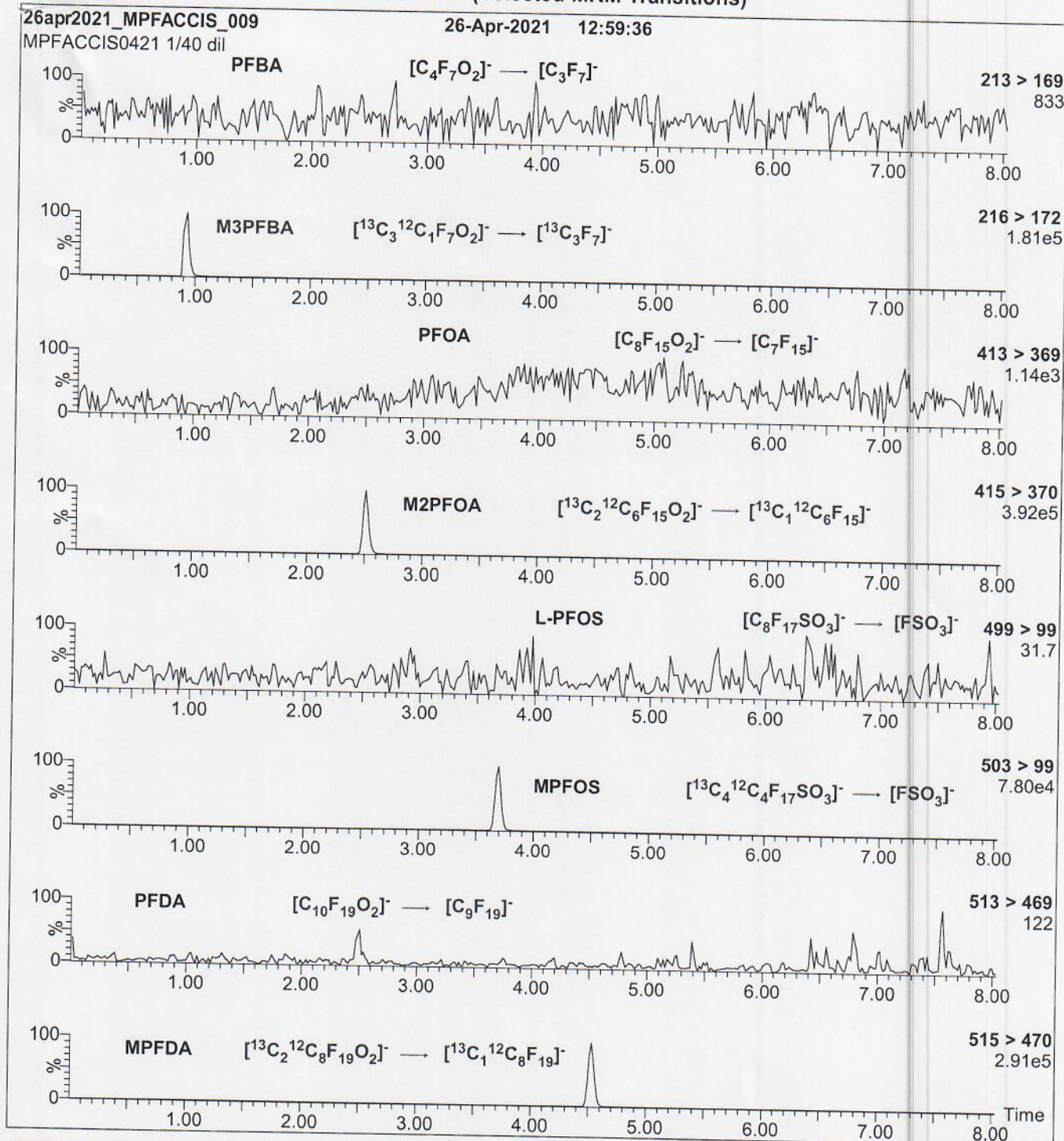
Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The mass-labelled perfluoroalkylsulfonate compound concentration is reported as the salt.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Figure 2: MPFAC-C-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: On-column (MPFAC-C-IS)
 Mobile phase: Same as Figure 1
 Flow: 300 μ L/min

MS Parameters:

Collision Gas (mbar) = 3.29e-3
 Collision Energy (eV) = 8-64 (variable)

BFS_IDA

**Bi-functional Surfactants (BFS) by
LC/MS/MS using Isotope Dilution**

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
EB_071222	410-91186-1	99
MW-39D	410-91186-2	91 cn
MW-39D RE	410-91186-2 RE	0.3 *5-
MW-39S	410-91186-3	97 cn
MW-39S RE	410-91186-3 RE	5 *5-
MW-39I	410-91186-4	115 cn
MW-39I RE	410-91186-4 RE	0.7 *5-
EB_071322	410-91186-5	122 cn
EB_071322 RE	410-91186-5 RE	0.5 *5-
	MB 410-279976/1-A	94
	MB 410-285075/1-A	100
	LCS 410-279976/2-A	95
	LCS 410-285075/2-A	106
	LCSD 410-279976/3-A	90
	LCSD 410-285075/3-A	97

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II BFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG09BFS-05.d

Lab ID: LCS 410-279976/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	284	114	70-130	
BFS_A2B3	4.72	5.20	110	70-130	
BFS_A3B	35.8	42.3	118	70-130	
BFS_A3B2	47.2	53.1	113	70-130	
BFS_A4B	19.8	21.6	109	70-130	
BFS_AB2	32.1	45.2	141	70-130	*+
BFS_AB3	268	301	113	70-130	
BFS_B3	114	129	113	70-130	
BFS_B4	62.2	72.5	117	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG13BFS-18.d

Lab ID: LCS 410-285075/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
BFS_A2B2	250	246	98	70-130	
BFS_A2B3	4.72	4.16	88	70-130	
BFS_A3B	35.8	39.5	110	70-130	
BFS_A3B2	47.2	44.0	93	70-130	
BFS_A4B	19.8	20.1	101	70-130	
BFS_AB2	32.1	37.7	118	70-130	
BFS_AB3	268	246	92	70-130	
BFS_B3	114	125	110	70-130	
BFS_B4	62.2	60.1	97	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG09BFS-06.d

Lab ID: LCSD 410-279976/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	250	294	118	4	30	70-130	
BFS_A2B3	4.72	5.97	127	14	30	70-130	
BFS_A3B	35.8	44.8	125	6	30	70-130	
BFS_A3B2	47.2	57.1	121	7	30	70-130	
BFS_A4B	19.8	22.5	114	4	30	70-130	
BFS_AB2	32.1	48.5	151	7	30	70-130	*+
BFS_AB3	268	324	121	7	30	70-130	
BFS_B3	114	134	117	4	30	70-130	
BFS_B4	62.2	78.6	126	8	30	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG13BFS-19.d

Lab ID: LCSD 410-285075/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
BFS_A2B2	250	267	107	8	30	70-130	
BFS_A2B3	4.72	4.48	95	7	30	70-130	
BFS_A3B	35.8	42.7	119	8	30	70-130	
BFS_A3B2	47.2	47.8	101	8	30	70-130	
BFS_A4B	19.8	21.5	109	7	30	70-130	
BFS_AB2	32.1	41.1	128	9	30	70-130	
BFS_AB3	268	272	102	10	30	70-130	
BFS_B3	114	131	115	4	30	70-130	
BFS_B4	62.2	63.8	103	6	30	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-91186-1

SDG No.:

Lab File ID: 22AUG05BFS-30.d

Lab Sample ID: MB 410-279976/1-A

Matrix: Water

Date Extracted: 07/27/2022 10:06

Instrument ID: 30733

Date Analyzed: 08/09/2022 08:51

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EB_071222	410-91186-1	22AUG05BFS-42.d	08/09/2022 11:23
	LCS 410-279976/2-A	22AUG09BFS-05.d	08/10/2022 03:17
	LCSD 410-279976/3-A	22AUG09BFS-06.d	08/10/2022 03:29
MW-39D RE	410-91186-2 RE	22AUG09BFS-17.d	08/10/2022 05:48
MW-39S RE	410-91186-3 RE	22AUG09BFS-18.d	08/10/2022 06:01
MW-39I RE	410-91186-4 RE	22AUG09BFS-19.d	08/10/2022 06:13
EB_071322 RE	410-91186-5 RE	22AUG09BFS-20.d	08/10/2022 06:26

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-91186-1

SDG No.:

Lab File ID: 22AUG13BFS-17.d

Lab Sample ID: MB 410-285075/1-A

Matrix: Water

Date Extracted: 08/11/2022 10:35

Instrument ID: 30733

Date Analyzed: 08/14/2022 05:57

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-285075/2-A	22AUG13BFS-18.d	08/14/2022 06:10
	LCSD 410-285075/3-A	22AUG13BFS-19.d	08/14/2022 06:22
MW-39D	410-91186-2	22AUG13BFS-28.d	08/14/2022 08:16
MW-39I	410-91186-4	22AUG13BFS-31.d	08/14/2022 08:54
EB_071322	410-91186-5	22AUG13BFS-32.d	08/14/2022 09:06
MW-39S	410-91186-3	22AUG15BFS-08.d	08/15/2022 09:50

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-91186-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3 (mm) Calibration End Date: 08/09/2022 01:56
 Calibration ID: 41560

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3030427	5.00				
UPPER LIMIT		4545641	5.40				
LOWER LIMIT		1515214	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-283892/11		3466306	5.00				
ICV 410-283892/12		2968895	5.00				
CCVL 410-283897/1		3128234	4.99				
CCV 410-283897/29		2949271	5.00				
MB 410-279976/1-A		3666744	4.99				
CCV 410-283897/41		3043415	5.00				
410-91186-1	EB_071222	3422452	4.99				
CCV 410-283897/48		3093790	5.00				
CCVL 410-284260/1		2891998	5.00				
CCV 410-284260/4		3078414	4.99				
LCS 410-279976/2-A		3561531	4.99				
LCSD 410-279976/3-A		3646408	4.99				
CCV 410-284260/16		3129695	4.99				
410-91186-2 RE	MW-39D RE	3429991	4.99				
410-91186-3 RE	MW-39S RE	3606702	5.00				
410-91186-4 RE	MW-39I RE	3911558	5.00				
410-91186-5 RE	EB_071322 RE	3466759	5.00				
CCV 410-284260/21		2887011	5.00				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-91186-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/14/2022 04:29
 Calibration ID: 41718

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3053714	4.96				
UPPER LIMIT		4580571	5.36				
LOWER LIMIT		1526857	4.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-285706/11		3568767	4.95				
ICV 410-285706/12		2819357	4.95				
CCVL 410-285708/1		3039983	4.95				
CCV 410-285708/2		2944460	4.95				
MB 410-285075/1-A		3080517	4.96				
LCS 410-285075/2-A		3188725	4.96				
LCSD 410-285075/3-A		3174670	4.96				
410-91186-2	MW-39D	2978186	4.96				
CCV 410-285708/16		2977389	4.96				
410-91186-4	MW-39I	2419210	4.96				
410-91186-5	EB_071322	3111941	4.96				
CCV 410-285708/29		3010254	4.96				
CCVL 410-285953/1		3098397	4.98				
CCV 410-285953/2		2958392	4.97				
410-91186-3	MW-39S	3097842	4.98				
CCV 410-285953/5		2982294	4.97				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_071222 Lab Sample ID: 410-91186-1

Matrix: Water Lab File ID: 22AUG05BFS-42.d

Analysis Method: BFS Date Collected: 07/12/2022 16:00

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 274.7(mL) Date Analyzed: 08/09/2022 11:23

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.3	0.36
STL02887	BFS_A2B3	ND		1.0	0.36
STL02880	BFS_A3B	ND		0.55	0.18
STL02885	BFS_A3B2	ND		0.73	0.18
STL02883	BFS_A4B	ND		0.36	0.18
STL02879	BFS_AB2	ND	*+ cn	0.55	0.073
STL02884	BFS_AB3	ND		1.4	0.36
STL02881	BFS_B3	ND		0.64	0.27
STL02886	BFS_B4	ND		1.0	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-42.d
 Lims ID: 410-91186-B-1-A
 Client ID: EB_071222
 Sample Type: Client
 Inject. Date: 09-Aug-2022 11:23:15 ALS Bottle#: 48 Worklist Smp#: 42
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-B-1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-042
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 13:41:40 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:31:44
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.380	4.388	-0.008	0.878	726601	4.95	99.1	337
* 11 13C2 PFOA	415.00 > 370.00	4.991	4.997	-0.006		3422452	5.00		357

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-42.d

Injection Date: 09-Aug-2022 11:23:15

Instrument ID: 30733

Lims ID: 410-91186-B-1-A

Lab Sample ID: 410-91186-1

Client ID: EB_071222

Operator ID: US19_USR_INS20260

ALS Bottle#: 48

Worklist Smp#: 42

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

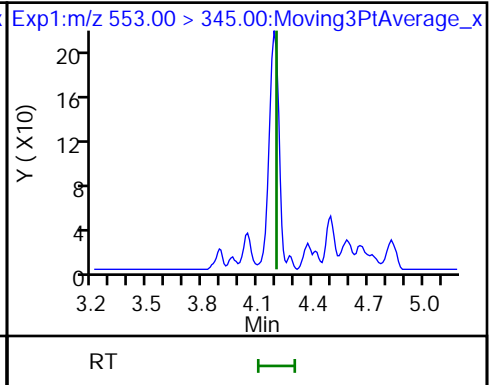
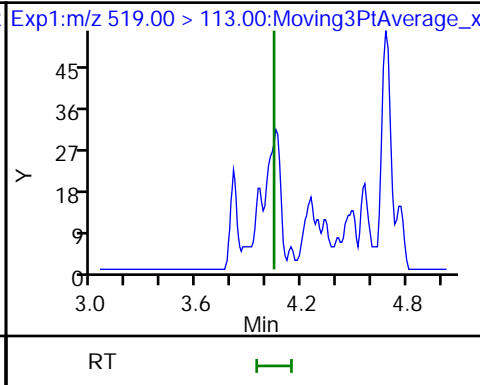
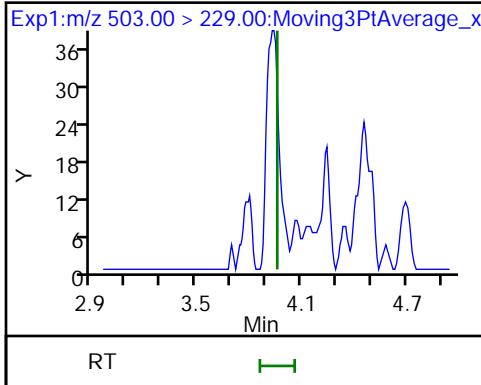
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

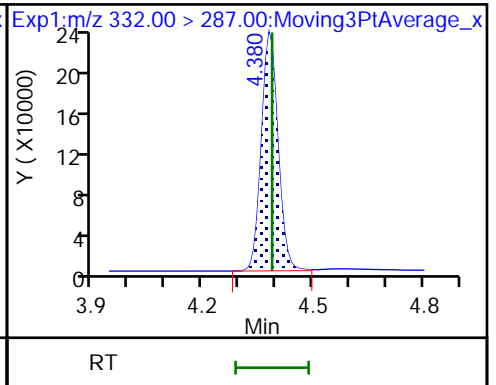
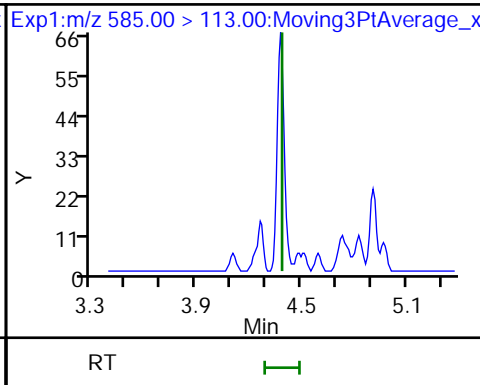
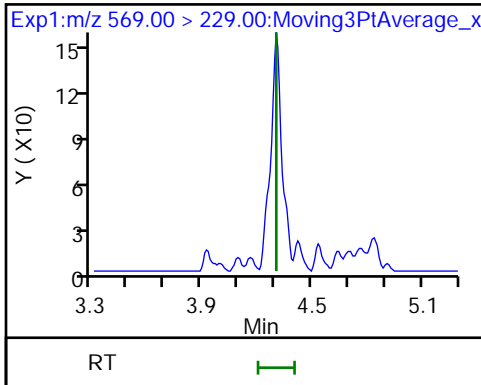
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

5 BFS_A4B (ND)

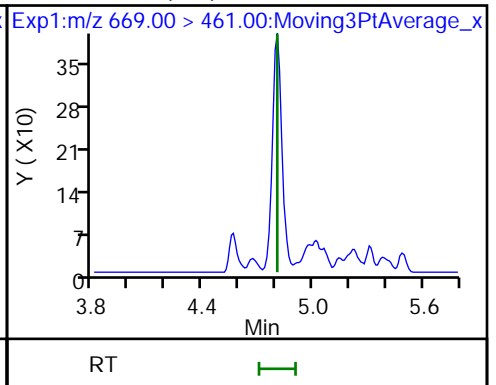
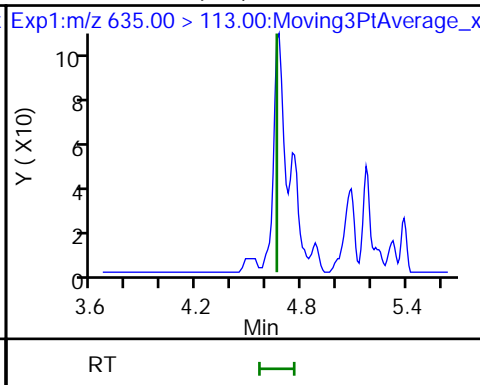
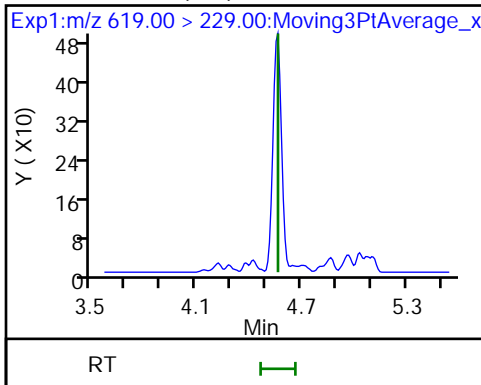
D 6 13C3 HFPO-DA



7 BFS_AB3 (ND)

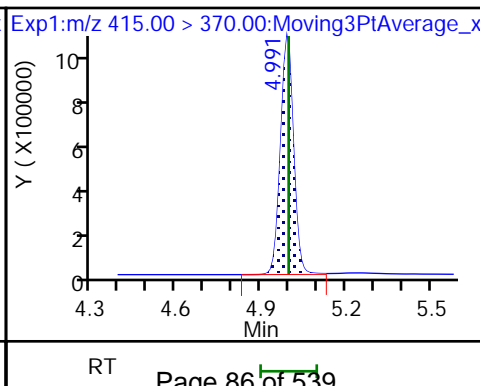
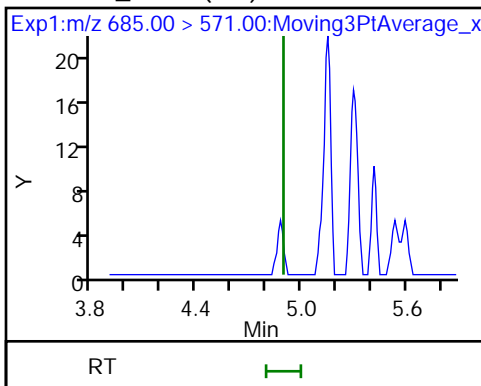
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39D RE Lab Sample ID: 410-91186-2 RE

Matrix: Water Lab File ID: 22AUG09BFS-17.d

Analysis Method: BFS Date Collected: 07/13/2022 09:25

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 294.5 (mL) Date Analyzed: 08/10/2022 05:48

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.2	0.34
STL02887	BFS_A2B3	ND		0.93	0.34
STL02880	BFS_A3B	ND		0.51	0.17
STL02885	BFS_A3B2	ND		0.68	0.17
STL02883	BFS_A4B	ND		0.34	0.17
STL02879	BFS_AB2	ND	*+	0.51	0.068
STL02884	BFS_AB3	ND		1.3	0.34
STL02881	BFS_B3	ND		0.59	0.25
STL02886	BFS_B4	ND		0.93	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	0.3	*5-	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-17.d
 Lims ID: 410-91186-B-2-A
 Client ID: MW-39D
 Sample Type: Client
 Inject. Date: 10-Aug-2022 05:48:23 ALS Bottle#: 25 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-B-2-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:13 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:33:54
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 6 13C3 HFPO-DA									M
332.00 > 287.00	4.377	4.388	-0.011	0.878	1936	0.0132	0.3	24.4	M
* 11 13C2 PFOA									
415.00 > 370.00	4.986	4.997	-0.011		3429991	5.00		329	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-17.d

Injection Date: 10-Aug-2022 05:48:23

Instrument ID: 30733

Lims ID: 410-91186-B-2-A

Lab Sample ID: 410-91186-2

Client ID: MW-39D

Operator ID: US19_USR_INS20260

ALS Bottle#: 25

Worklist Smp#: 17

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

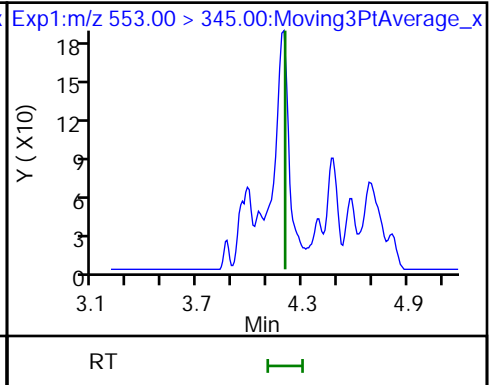
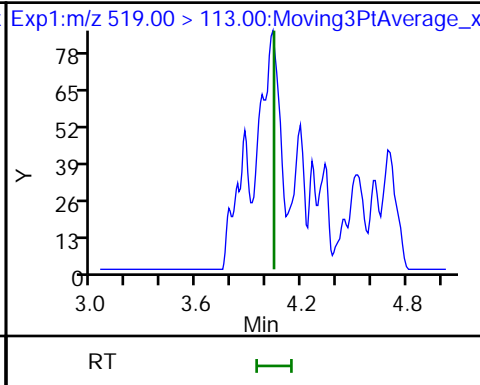
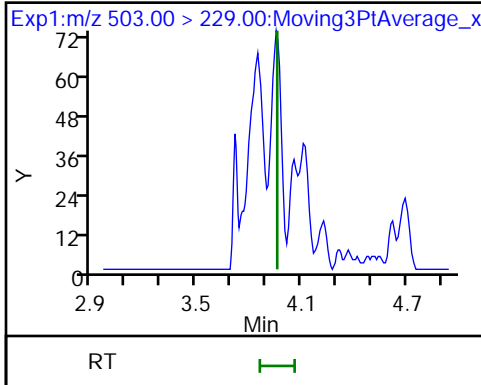
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

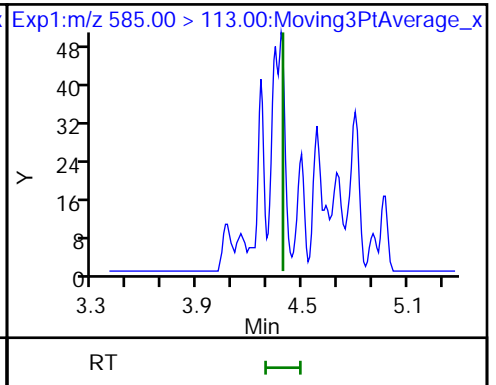
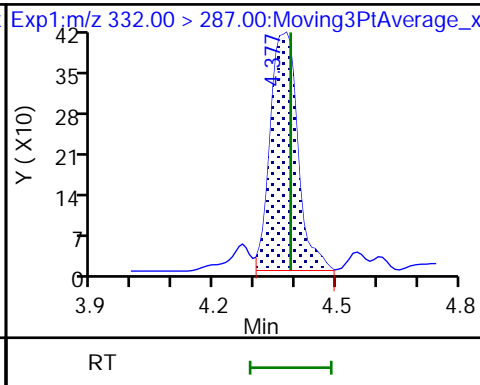
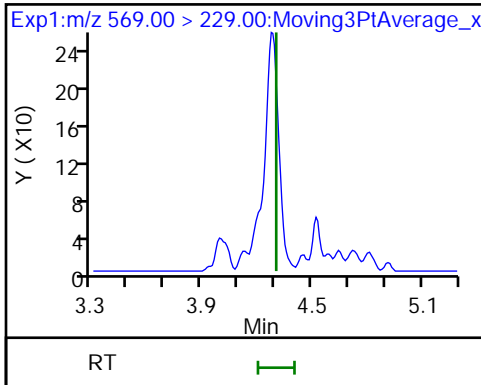
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA (M)

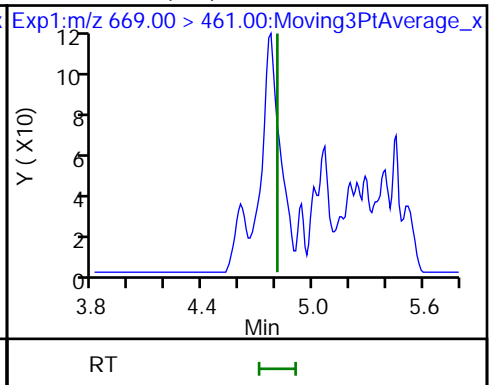
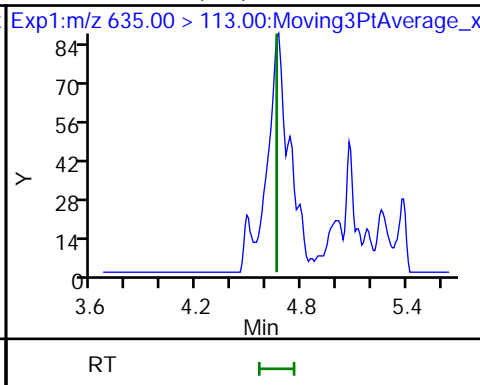
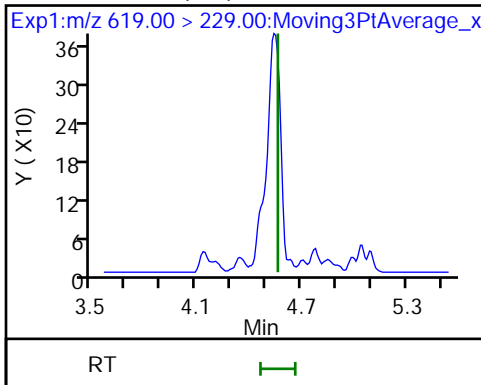
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

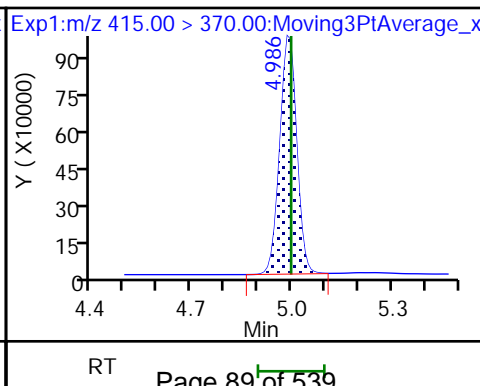
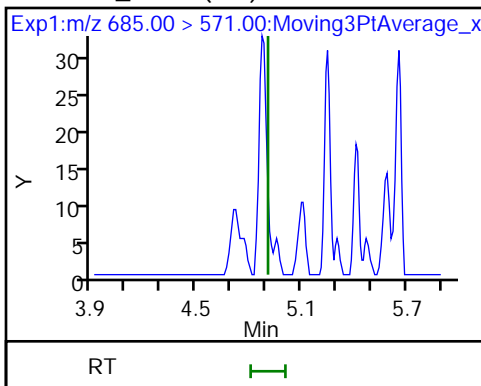
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

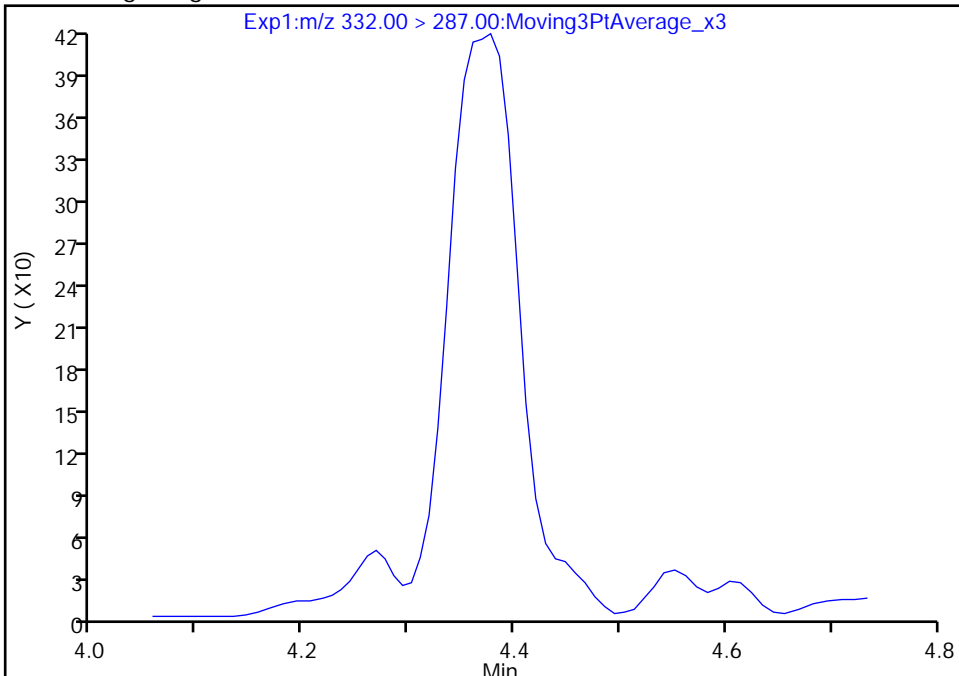
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-17.d
Injection Date: 10-Aug-2022 05:48:23 Instrument ID: 30733
Lims ID: 410-91186-B-2-A Lab Sample ID: 410-91186-2
Client ID: MW-39D
Operator ID: US19_USR_INS20260 ALS Bottle#: 25 Worklist Smp#: 17
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

D 6 13C3 HFPO-DA, CAS: STL02255

Signal: 1

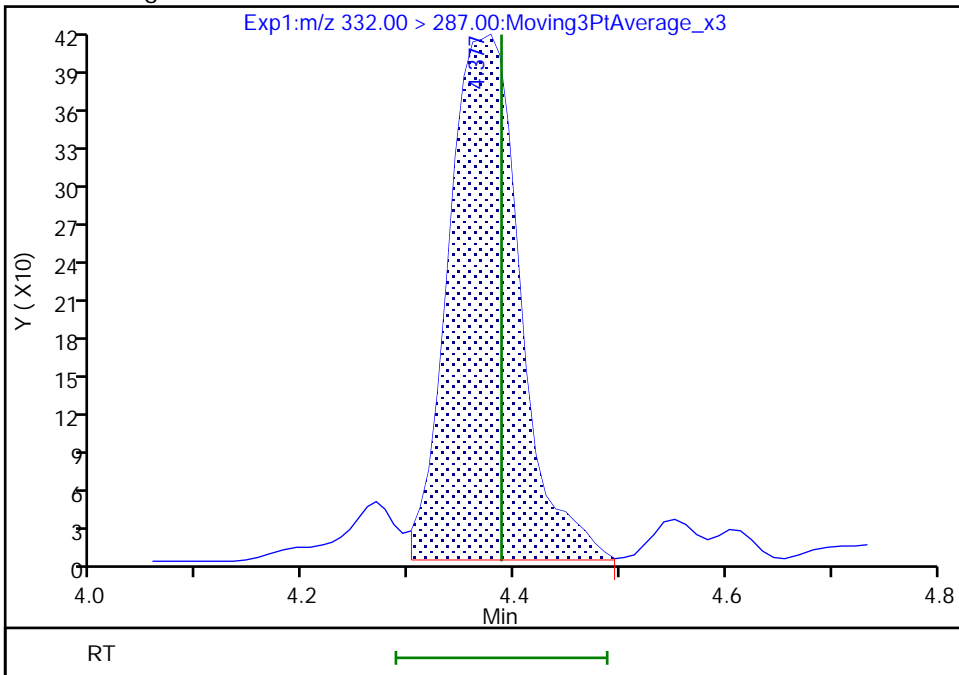
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 1936
Amount: 0.013172
Amount Units: ng/ml



Reviewer: JVK6, 10-Aug-2022 12:34:18
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39D Lab Sample ID: 410-91186-2

Matrix: Water Lab File ID: 22AUG13BFS-28.d

Analysis Method: BFS Date Collected: 07/13/2022 09:25

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 292.5(mL) Date Analyzed: 08/14/2022 08:16

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	0.53	J H	1.2	0.34
STL02887	BFS_A2B3	ND	H	0.94	0.34
STL02880	BFS_A3B	ND	H	0.51	0.17
STL02885	BFS_A3B2	ND	H	0.68	0.17
STL02883	BFS_A4B	ND	H	0.34	0.17
STL02879	BFS_AB2	ND	H	0.51	0.068
STL02884	BFS_AB3	0.82	J H	1.3	0.34
STL02881	BFS_B3	ND	H	0.60	0.26
STL02886	BFS_B4	ND	H	0.94	0.34

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-28.d
 Lims ID: 410-91186-C-2-A
 Client ID: MW-39D
 Sample Type: Client
 Inject. Date: 14-Aug-2022 08:16:17 ALS Bottle#: 24 Worklist Smp#: 14
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-C-2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-014
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:44:05 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:44:05

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
4 BFS_A2B2									M
569.00 > 229.00	4.268	4.263	0.005	0.981	8491	0.1557		61.4	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.352	4.346	0.006	0.878	541378	4.53	90.6	944	
7 BFS_AB3									
619.00 > 229.00	4.522	4.525	-0.003	1.039	25146	0.2410		221	
* 11 13C2 PFOA									
415.00 > 370.00	4.956	4.958	-0.002		2978186	5.00		875	

QC Flag Legend

Processing Flags

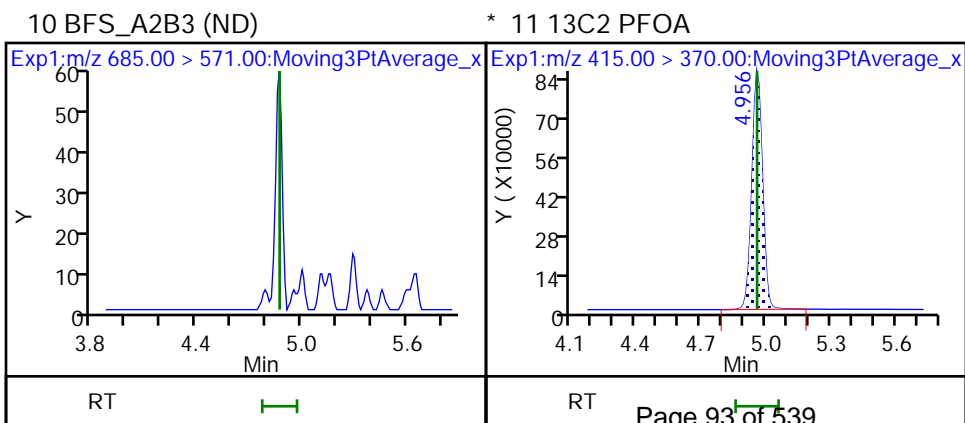
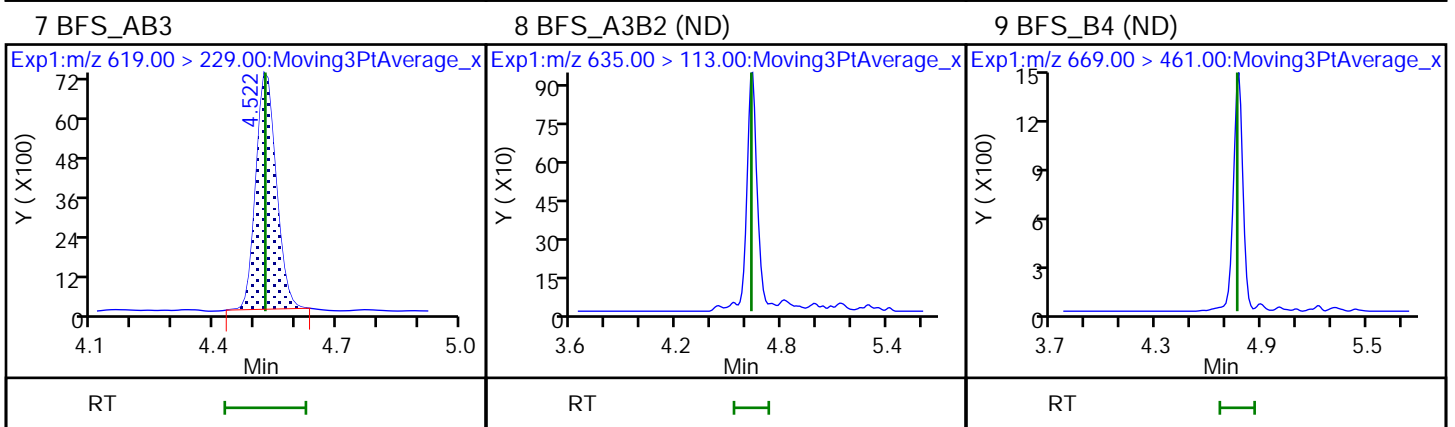
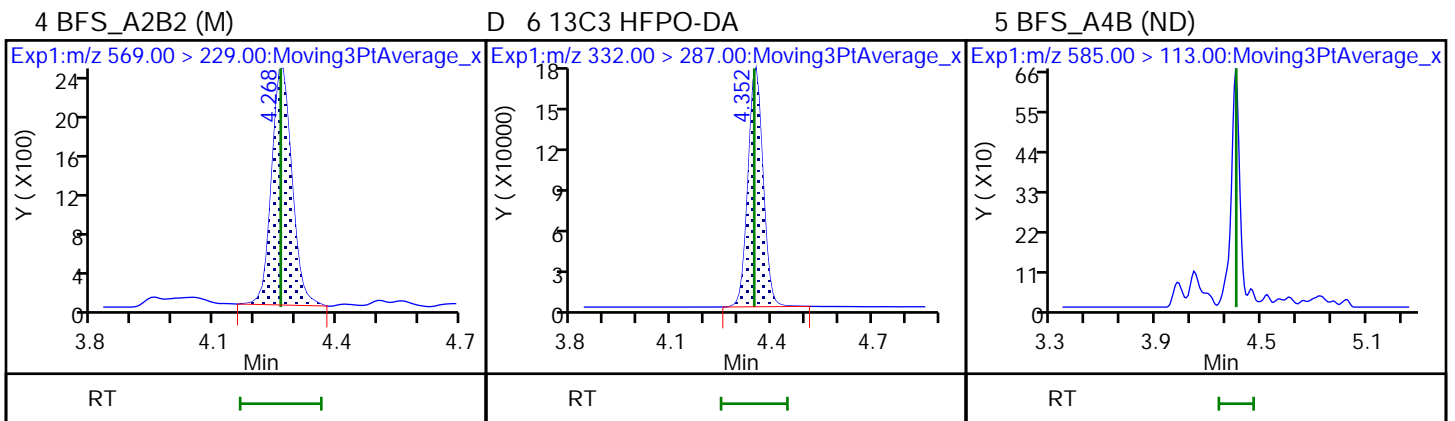
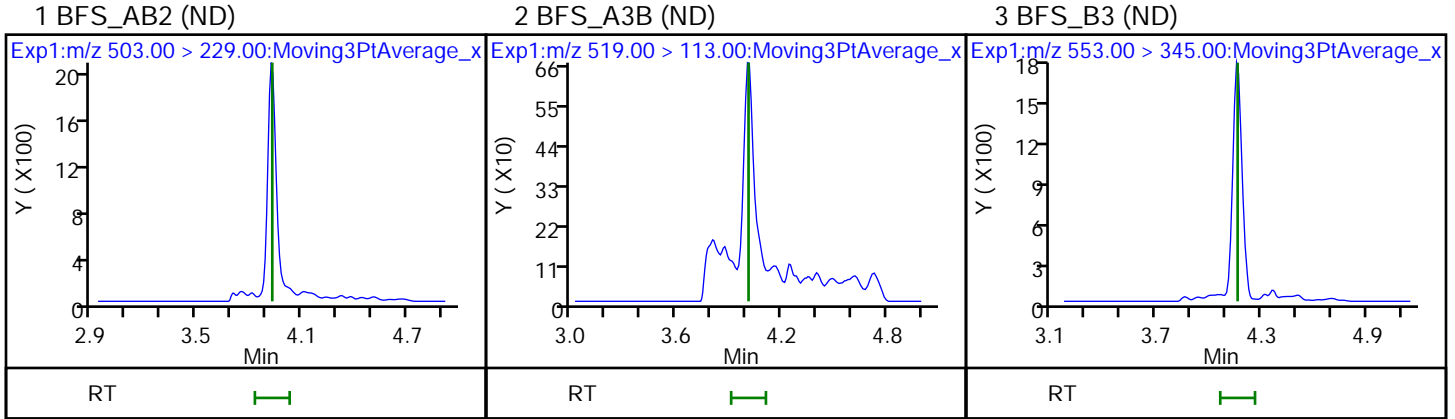
Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-28.d
Injection Date: 14-Aug-2022 08:16:17 Instrument ID: 30733
Lims ID: 410-91186-C-2-A Lab Sample ID: 410-91186-2
Client ID: MW-39D
Operator ID: US19_USR_INS20260 ALS Bottle#: 24 Worklist Smp#: 14
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

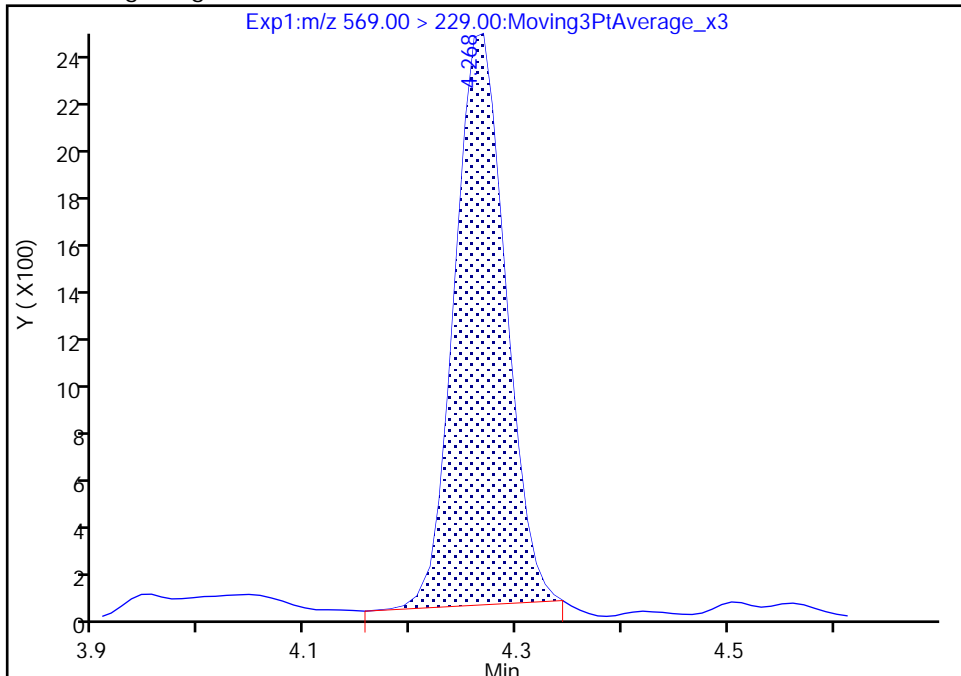
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-28.d
Injection Date: 14-Aug-2022 08:16:17 Instrument ID: 30733
Lims ID: 410-91186-C-2-A Lab Sample ID: 410-91186-2
Client ID: MW-39D
Operator ID: US19_USR_INS20260 ALS Bottle#: 24 Worklist Smp#: 14
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

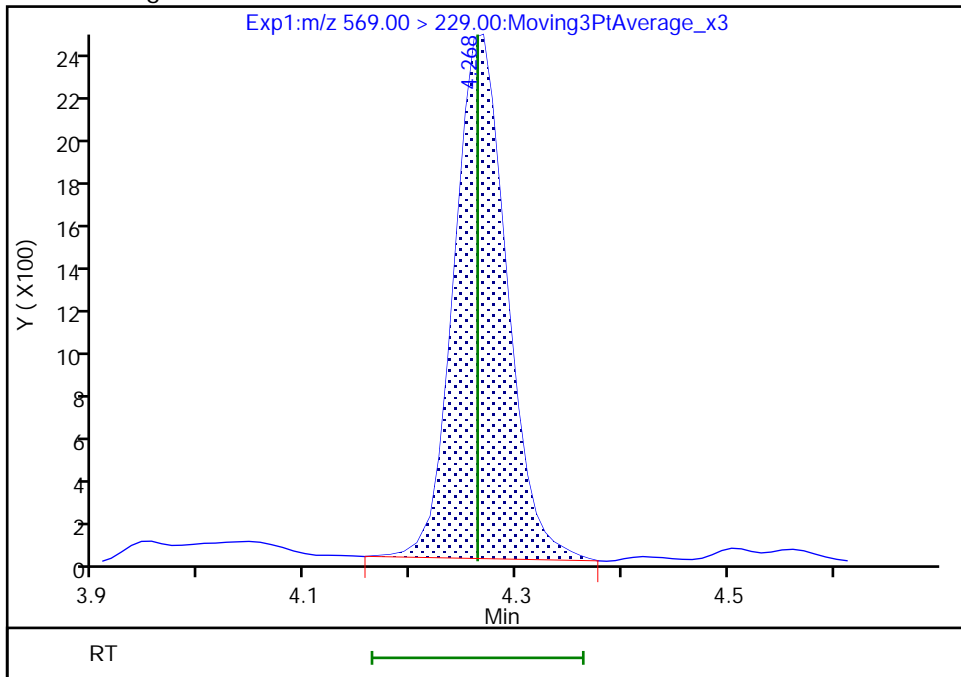
RT: 4.27
Area: 8099
Amount: 0.151039
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 8491
Amount: 0.155671
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:43:57
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39S RE Lab Sample ID: 410-91186-3 RE

Matrix: Water Lab File ID: 22AUG09BFS-18.d

Analysis Method: BFS Date Collected: 07/13/2022 09:30

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 303.6(mL) Date Analyzed: 08/10/2022 06:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	24		1.2	0.33
STL02887	BFS_A2B3	ND		0.91	0.33
STL02880	BFS_A3B	4.9		0.49	0.16
STL02885	BFS_A3B2	1.1		0.66	0.16
STL02883	BFS_A4B	1.1		0.33	0.16
STL02879	BFS_AB2	8.4	++	0.49	0.066
STL02884	BFS_AB3	14		1.2	0.33
STL02881	BFS_B3	15		0.58	0.25
STL02886	BFS_B4	2.0		0.91	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	5	*5-	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-18.d
 Lims ID: 410-91186-B-3-A
 Client ID: MW-39S
 Sample Type: Client
 Inject. Date: 10-Aug-2022 06:01:00 ALS Bottle#: 26 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-B-3-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:13 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:34:01
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.960	0.001	0.902	26818	2.54	769	
2 BFS_A3B	519.00 > 113.00	4.033	4.042	-0.009	0.919	17792	1.49	120	
3 BFS_B3	553.00 > 345.00	4.202	4.200	0.002	0.957	31439	4.66	172	
4 BFS_A2B2	569.00 > 229.00	4.298	4.304	-0.006	0.979	33503	7.32	255	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.390	4.388	0.002	0.879	40091	0.2594	5.2	271
5 BFS_A4B	585.00 > 113.00	4.390	4.388	0.002	1.000	5020	0.3259	112	
7 BFS_AB3	619.00 > 229.00	4.566	4.564	0.002	1.040	26640	4.37	263	
8 BFS_A3B2	635.00 > 113.00	4.660	4.657	0.003	1.061	3732	0.3334	64.9	
9 BFS_B4	669.00 > 461.00	4.805	4.805	0.0	1.094	2261	0.6117	19.8	
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		3606702	5.00	328	

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-18.d

Injection Date: 10-Aug-2022 06:01:00

Instrument ID: 30733

Lims ID: 410-91186-B-3-A

Lab Sample ID: 410-91186-3

Client ID: MW-39S

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 18

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

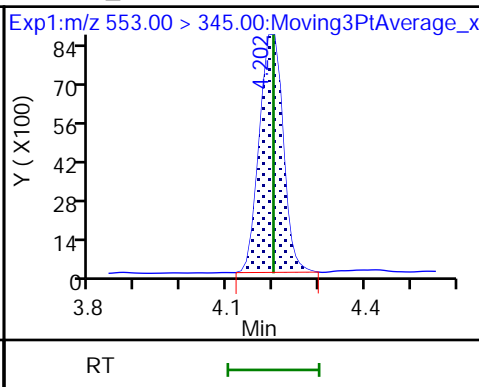
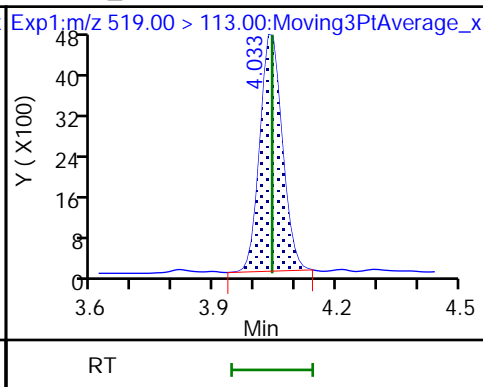
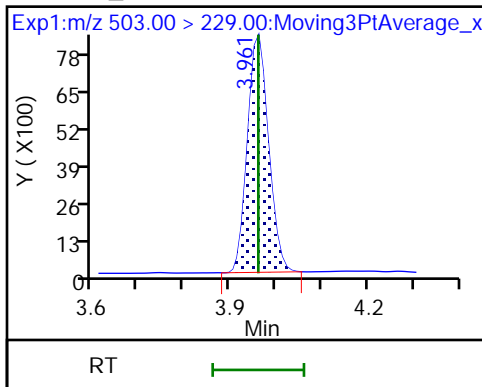
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

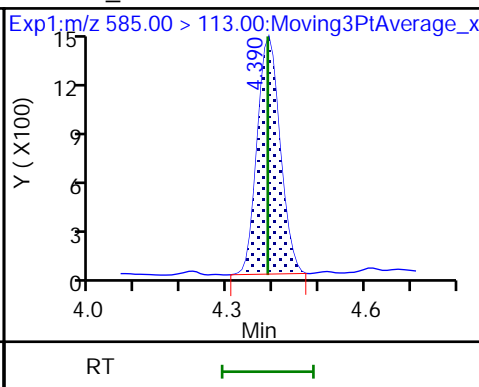
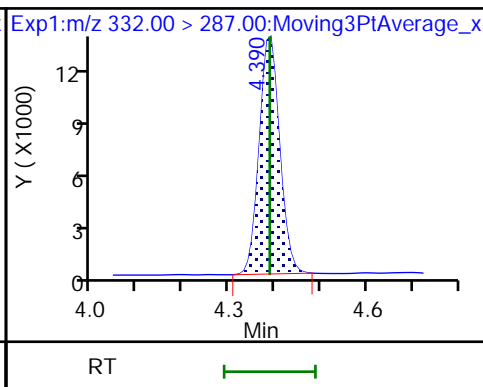
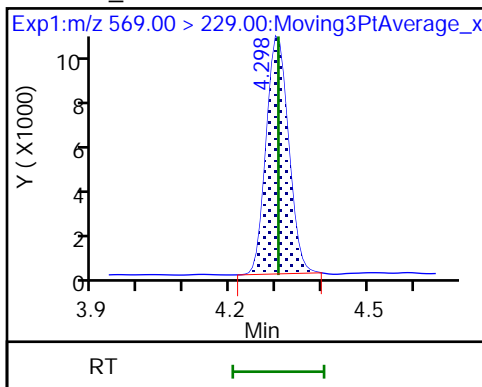
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

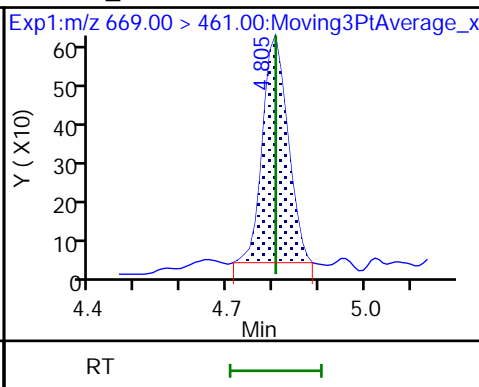
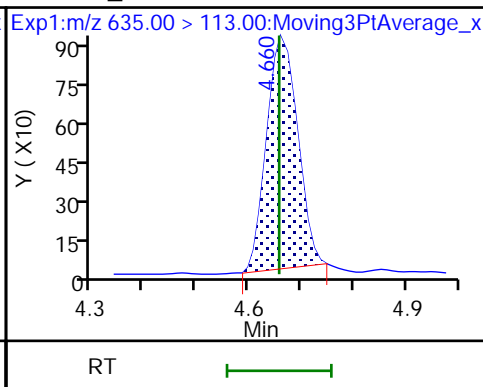
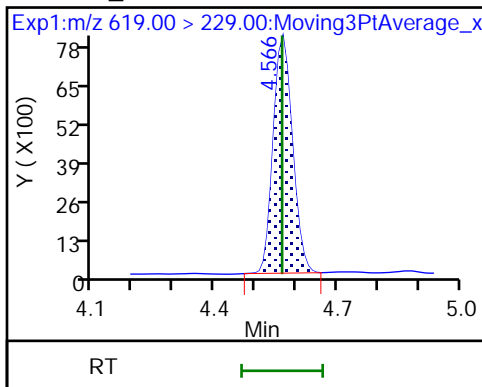
5 BFS_A4B



7 BFS_AB3

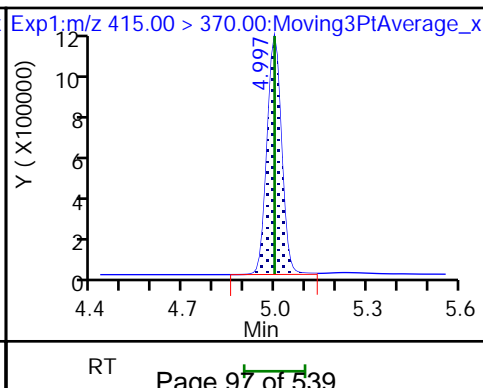
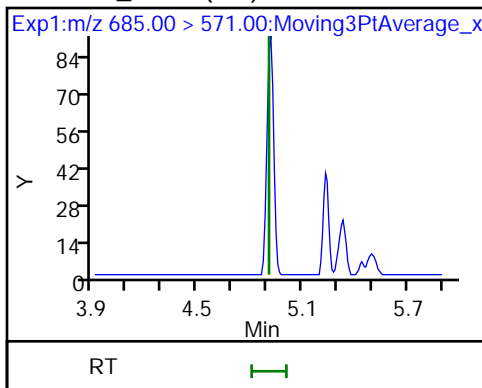
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39S Lab Sample ID: 410-91186-3

Matrix: Water Lab File ID: 22AUG15BFS-08.d

Analysis Method: BFS Date Collected: 07/13/2022 09:30

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 289.1(mL) Date Analyzed: 08/15/2022 09:50

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285953 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	1.7	H	1.2	0.35
STL02887	BFS_A2B3	ND	H	0.95	0.35
STL02880	BFS_A3B	0.54	H	0.52	0.17
STL02885	BFS_A3B2	ND	H	0.69	0.17
STL02883	BFS_A4B	ND	H	0.35	0.17
STL02879	BFS_AB2	0.73	H	0.52	0.069
STL02884	BFS_AB3	0.71	J H	1.3	0.35
STL02881	BFS_B3	1.2	H	0.61	0.26
STL02886	BFS_B4	ND	H	0.95	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-08.d
 Lims ID: 410-91186-C-3-A
 Client ID: MW-39S
 Sample Type: Client
 Inject. Date: 15-Aug-2022 09:50:55 ALS Bottle#: 45 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-C-3-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:12 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:30:55
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.932	0.020	0.904	42873	0.2113	1328	
2 BFS_A3B	519.00 > 113.00	4.033	4.008	0.025	0.922	34629	0.1574	169	
3 BFS_B3	553.00 > 345.00	4.190	4.161	0.029	0.958	44902	0.3345	350	
4 BFS_A2B2	569.00 > 229.00	4.290	4.267	0.023	0.981	42182	0.5033	276	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.373	4.348	0.025	0.879	602369	4.85	96.9	1033
7 BFS_AB3	619.00 > 229.00	4.556	4.525	0.031	1.042	23330	0.2051	247	a
* 11 13C2 PFOA	415.00 > 370.00	4.977	4.958	0.019		3097842	5.00	910	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-08.d

Injection Date: 15-Aug-2022 09:50:55

Instrument ID: 30733

Lims ID: 410-91186-C-3-A

Lab Sample ID: 410-91186-3

Client ID: MW-39S

Operator ID: US19_USR_INS20260

ALS Bottle#: 45

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

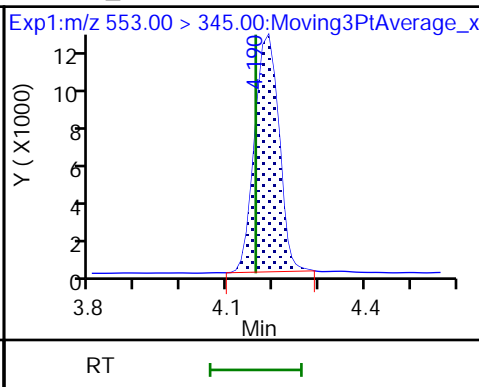
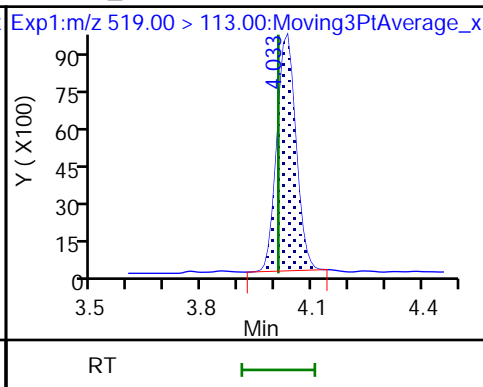
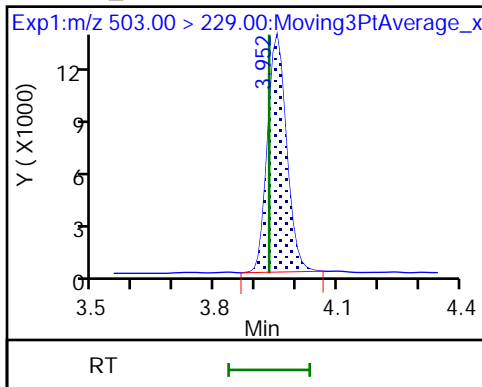
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

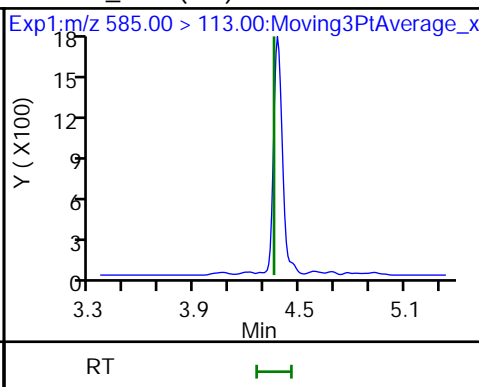
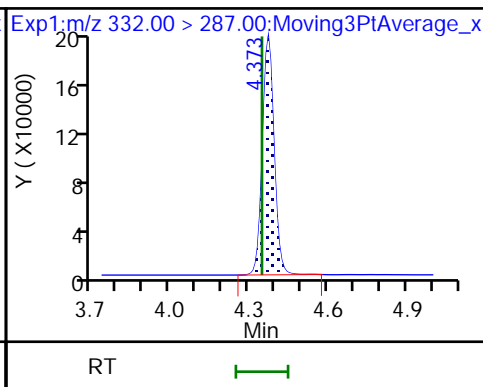
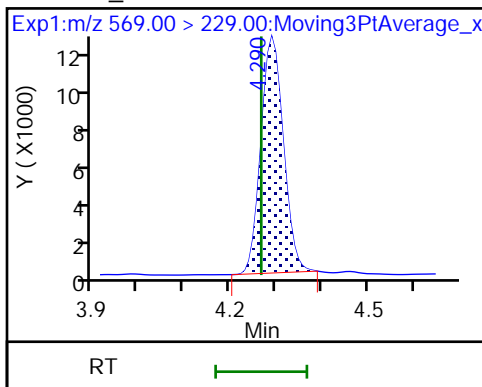
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

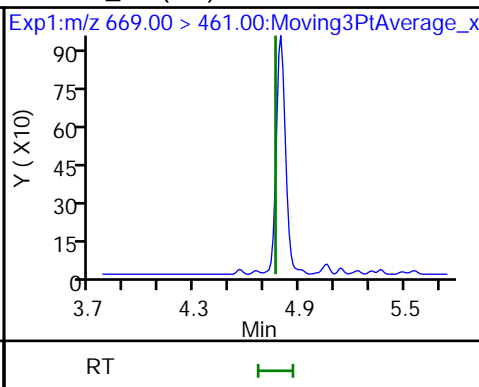
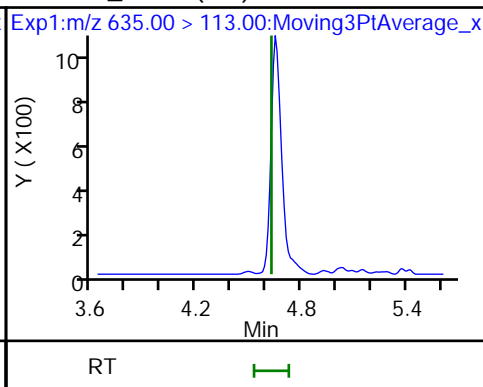
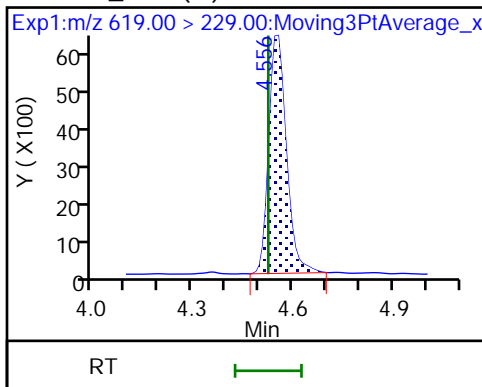
5 BFS_A4B (ND)



7 BFS_AB3 (M)

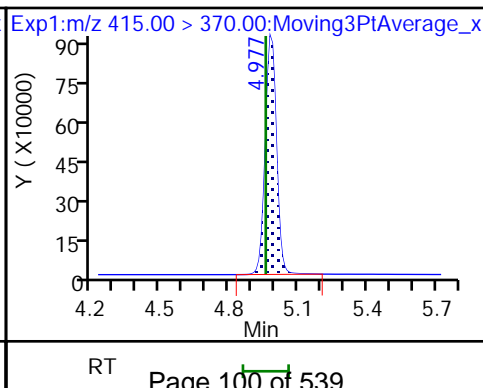
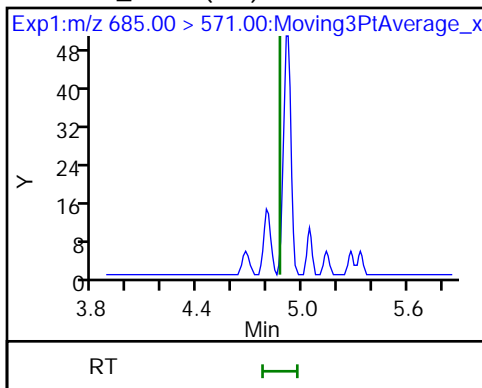
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Euofins Lancaster Laboratories Environment Testing, LLC

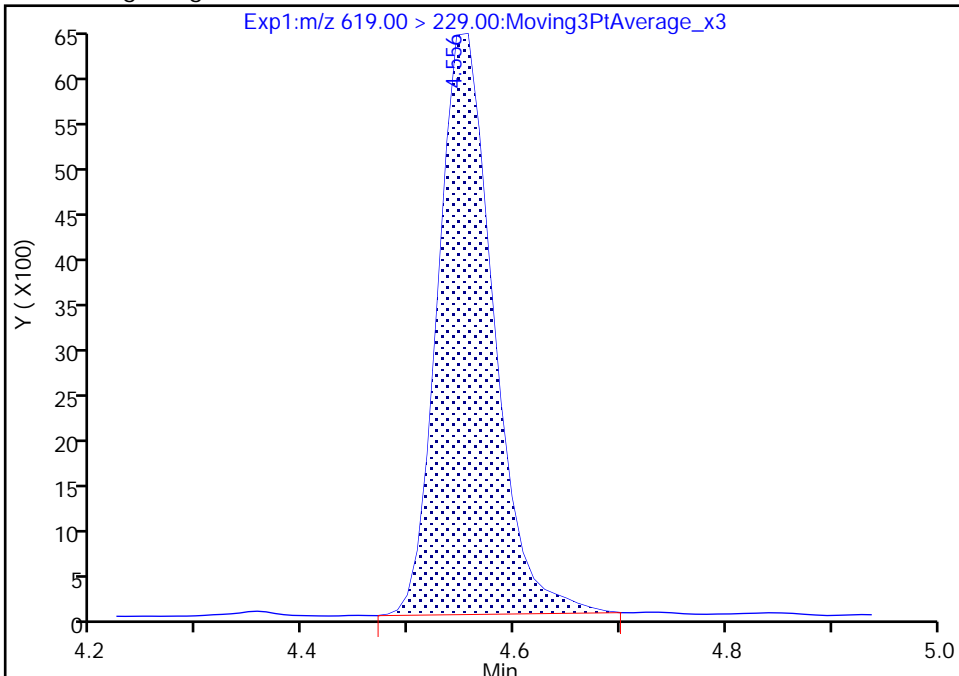
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Injection Date:	15-Aug-2022 09:50:55	Instrument ID:	30733		
Lims ID:	410-91186-C-3-A	Lab Sample ID:	410-91186-3		
Client ID:	MW-39S				
Operator ID:	US19_USR_INS20260	ALS Bottle#:	45	Worklist Smp#:	4
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA		
Column:		Detector:	EXP1		

7 BFS_AB3, CAS: STL02884

Signal: 1

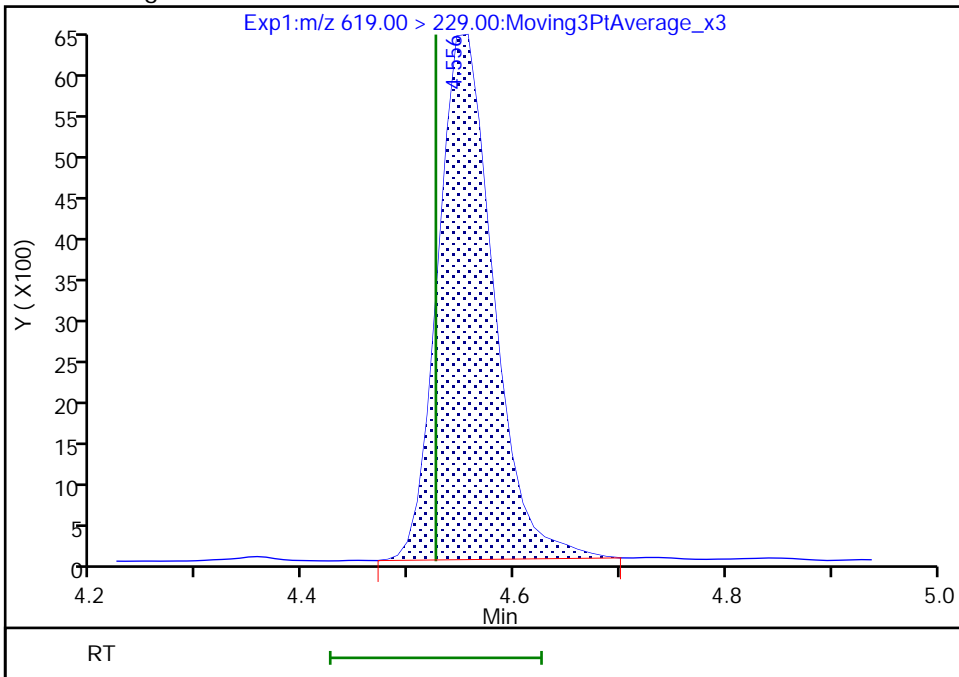
RT: 4.56
Area: 23330
Amount: 0.205127
Amount Units: ng/ml

Processing Integration Results



RT: 4.56
Area: 23330
Amount: 0.205127
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:30:36
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39I RE Lab Sample ID: 410-91186-4 RE

Matrix: Water Lab File ID: 22AUG09BFS-19.d

Analysis Method: BFS Date Collected: 07/13/2022 10:40

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 327.4(mL) Date Analyzed: 08/10/2022 06:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	840		1.1	0.31
STL02887	BFS_A2B3	400	E	0.84	0.31
STL02880	BFS_A3B	110		0.46	0.15
STL02885	BFS_A3B2	240		0.61	0.15
STL02883	BFS_A4B	64		0.31	0.15
STL02879	BFS_AB2	140	*+	0.46	0.061
STL02884	BFS_AB3	1900		1.1	0.31
STL02881	BFS_B3	420		0.53	0.23
STL02886	BFS_B4	1100	E	0.84	0.31

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	0.7	*5-	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-19.d
 Lims ID: 410-91186-B-4-A
 Client ID: MW-39I
 Sample Type: Client
 Inject. Date: 10-Aug-2022 06:13:34 ALS Bottle#: 27 Worklist Smp#: 19
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-B-4-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:13 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:34:05

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.962	3.960	0.002	0.902	71364	45.4	1341	
2 BFS_A3B	519.00 > 113.00	4.045	4.042	0.003	0.921	66065	37.2	150	
3 BFS_B3	553.00 > 345.00	4.203	4.200	0.003	0.957	130501	136.9	148	
4 BFS_A2B2	569.00 > 229.00	4.307	4.304	0.003	0.981	174698	273.9	200	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.391	4.388	0.003	0.879	5629	0.0336	0.7	108
5 BFS_A4B	585.00 > 113.00	4.391	4.388	0.003	1.000	45683	20.9	222	
7 BFS_AB3	619.00 > 229.00	4.567	4.564	0.003	1.040	456429	615.0	322	
8 BFS_A3B2	635.00 > 113.00	4.660	4.657	0.003	1.061	122255	79.2	225	
9 BFS_B4	669.00 > 461.00	4.805	4.805	0.0	1.094	181338	353.1	259	E
10 BFS_A2B3	685.00 > 571.00	4.919	4.907	0.012	1.120	10292	129.9	172	E
* 11 13C2 PFOA	415.00 > 370.00	4.998	4.997	0.001		3911558	5.00	340	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-19.d

Injection Date: 10-Aug-2022 06:13:34

Instrument ID: 30733

Lims ID: 410-91186-B-4-A

Lab Sample ID: 410-91186-4

Client ID: MW-39I

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 19

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

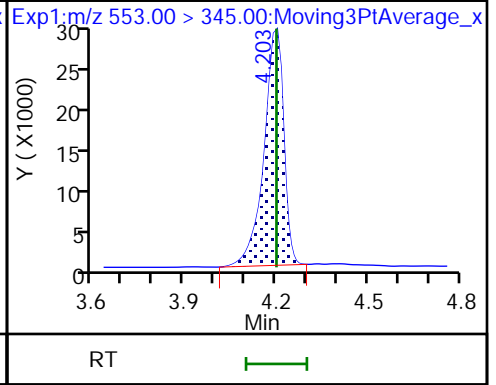
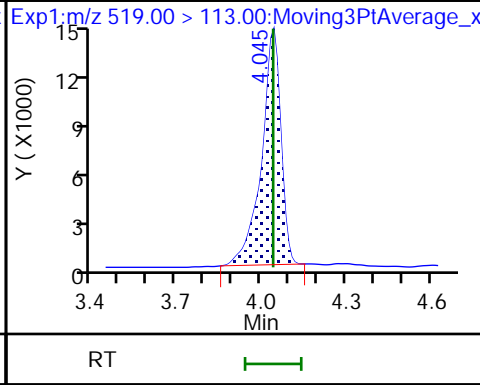
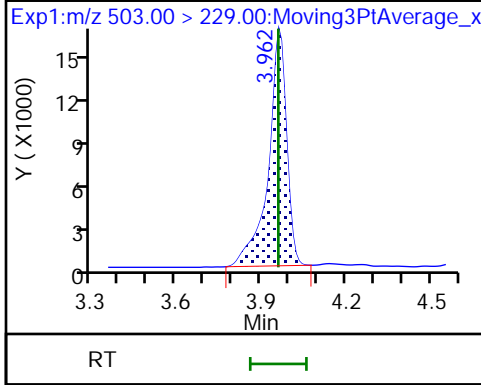
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

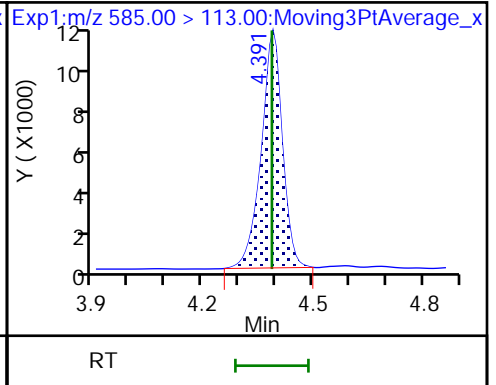
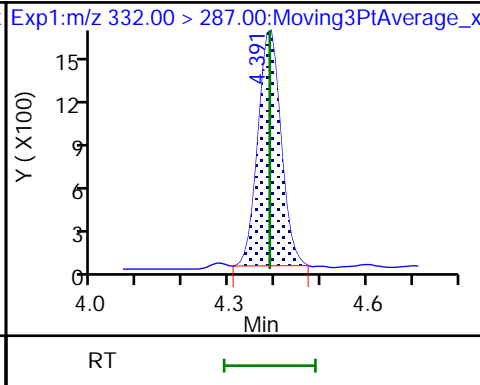
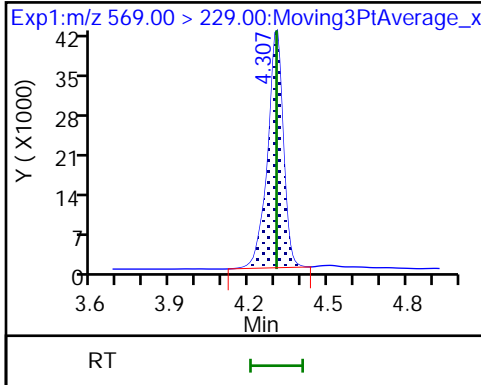
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

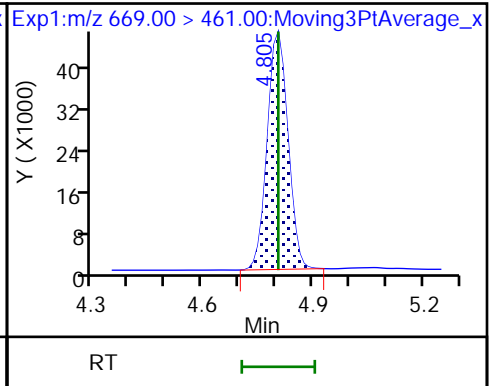
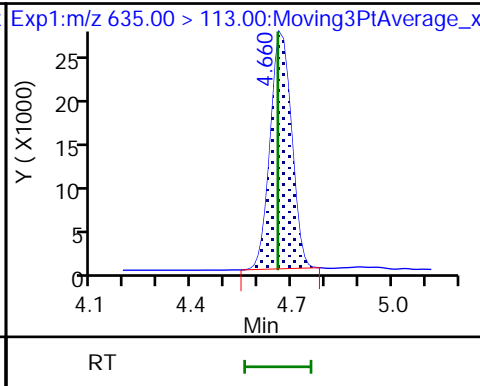
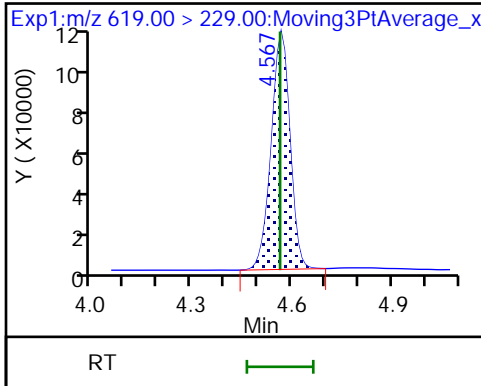
5 BFS_A4B



7 BFS_AB3

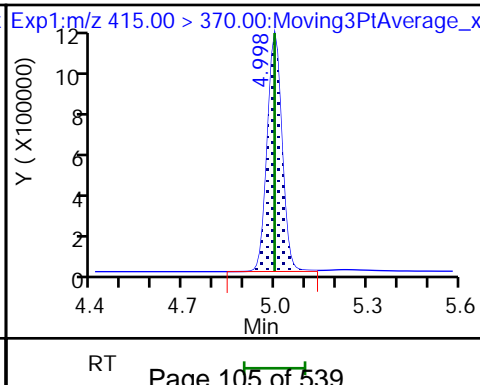
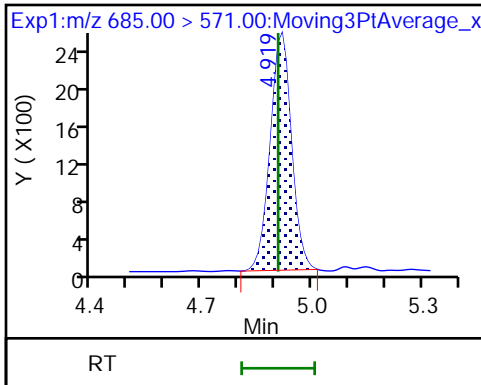
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39I Lab Sample ID: 410-91186-4

Matrix: Water Lab File ID: 22AUG13BFS-31.d

Analysis Method: BFS Date Collected: 07/13/2022 10:40

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 281(mL) Date Analyzed: 08/14/2022 08:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	330	H	1.2	0.36
STL02887	BFS_A2B3	7.7	H	0.98	0.36
STL02880	BFS_A3B	57	H	0.53	0.18
STL02885	BFS_A3B2	27	H	0.71	0.18
STL02883	BFS_A4B	24	H	0.36	0.18
STL02879	BFS_AB2	67	H	0.53	0.071
STL02884	BFS_AB3	270	H	1.3	0.36
STL02881	BFS_B3	200	H	0.62	0.27
STL02886	BFS_B4	29	H	0.98	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	115	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-31.d
 Lims ID: 410-91186-C-4-A
 Client ID: MW-39I
 Sample Type: Client
 Inject. Date: 14-Aug-2022 08:54:06 ALS Bottle#: 26 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-C-4-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:01 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:44:40
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.903	3634311	18.8	24338	
2 BFS_A3B	519.00 > 113.00	4.011	4.010	0.001	0.921	3474886	16.0	836	
3 BFS_B3	553.00 > 345.00	4.163	4.163	0.0	0.956	6571923	54.8	996	
4 BFS_A2B2	569.00 > 229.00	4.271	4.263	0.008	0.981	7869395	92.1	1181	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.355	4.346	0.009	0.878	558593	5.75	115	907
5 BFS_A4B	585.00 > 113.00	4.355	4.355	0.0	1.000	1807337	6.78	1546	
7 BFS_AB3	619.00 > 229.00	4.534	4.525	0.009	1.041	8913611	75.8	1609	
8 BFS_A3B2	635.00 > 113.00	4.626	4.627	-0.001	1.062	1721999	7.54	1005	
9 BFS_B4	669.00 > 461.00	4.772	4.760	0.012	1.096	606650	8.09	887	
10 BFS_A2B3	685.00 > 571.00	4.875	4.874	0.001	1.120	16127	2.15	359	
* 11 13C2 PFOA	415.00 > 370.00	4.959	4.958	0.001		2419210	5.00	907	

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-31.d

Injection Date: 14-Aug-2022 08:54:06

Instrument ID: 30733

Lims ID: 410-91186-C-4-A

Lab Sample ID: 410-91186-4

Client ID: MW-39I

Operator ID: US19_USR_INS20260

ALS Bottle#: 26

Worklist Smp#: 17

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

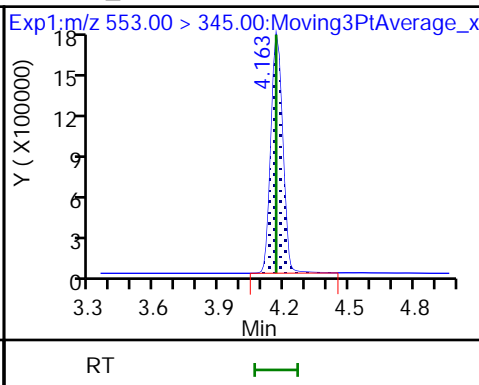
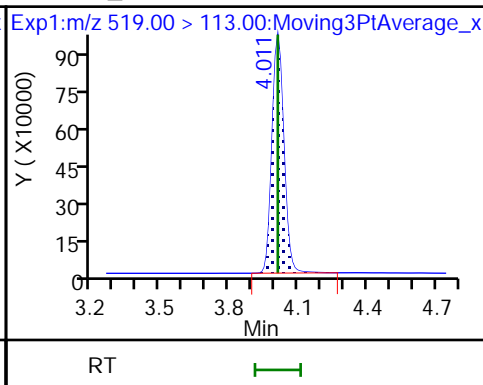
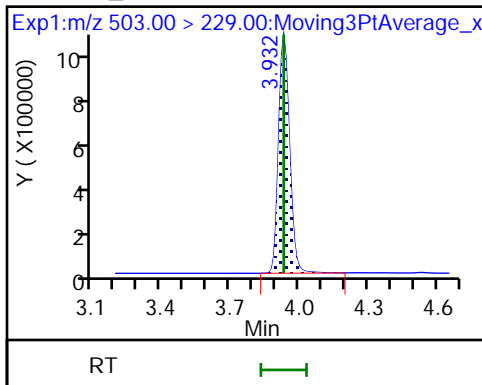
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

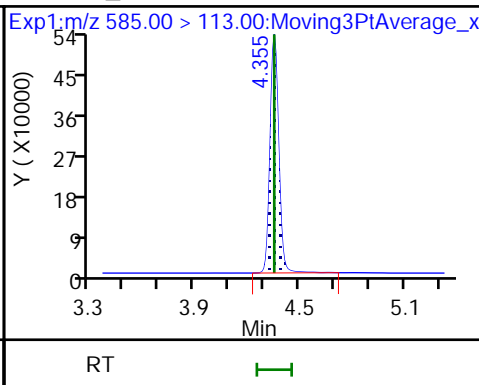
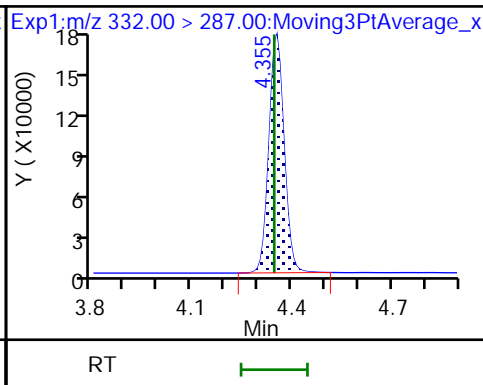
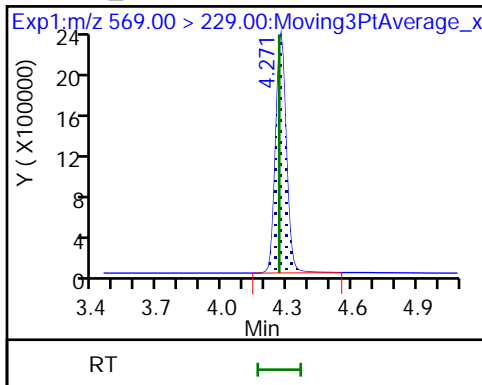
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

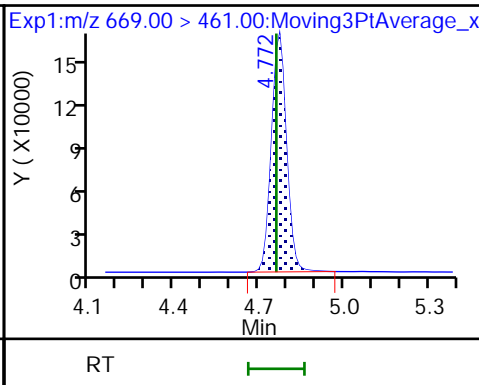
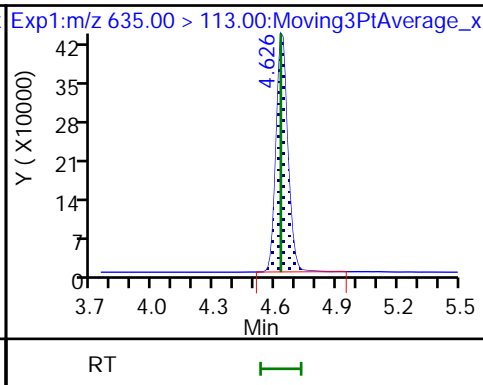
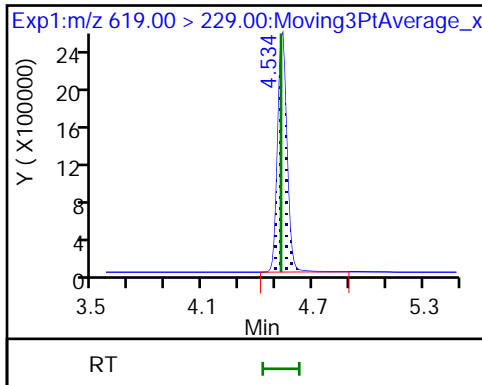
5 BFS_A4B



7 BFS_AB3

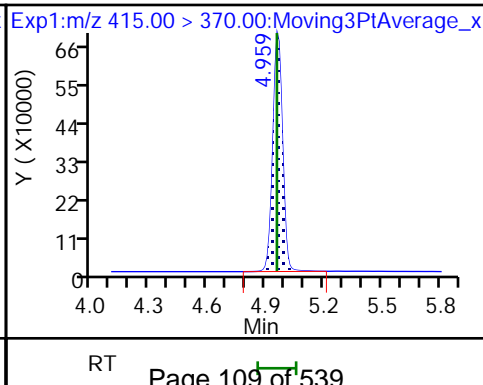
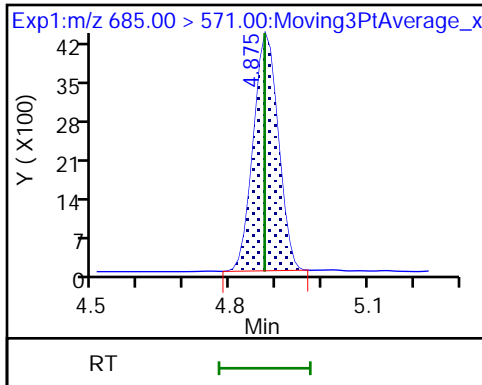
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-91186-1

SDG No.:

Client Sample ID: EB_071322 RE

Lab Sample ID: 410-91186-5 RE

Matrix: Water

Lab File ID: 22AUG09BFS-20.d

Analysis Method: BFS

Date Collected: 07/13/2022 10:15

Extraction Method: 3535

Date Extracted: 07/27/2022 10:06

Sample wt/vol: 274.2 (mL)

Date Analyzed: 08/10/2022 06:26

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 10 (uL)

GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Analysis Batch No.: 284260

Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.3	0.36
STL02887	BFS_A2B3	ND		1.0	0.36
STL02880	BFS_A3B	ND		0.55	0.18
STL02885	BFS_A3B2	ND		0.73	0.18
STL02883	BFS_A4B	ND		0.36	0.18
STL02879	BFS_AB2	ND	*+	0.55	0.073
STL02884	BFS_AB3	ND		1.4	0.36
STL02881	BFS_B3	ND		0.64	0.27
STL02886	BFS_B4	ND		1.0	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	0.5	*5-	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-20.d
 Lims ID: 410-91186-B-5-A
 Client ID: EB_071322
 Sample Type: Client
 Inject. Date: 10-Aug-2022 06:26:11 ALS Bottle#: 28 Worklist Smp#: 20
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-B-5-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:13 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:34:10
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.388 4.388 0.0 0.878 3475 0.0234 0.5 69.5
 * 11 13C2 PFOA
 415.00 > 370.00 4.997 4.997 0.0 3466759 5.00 332

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-20.d

Injection Date: 10-Aug-2022 06:26:11

Instrument ID: 30733

Lims ID: 410-91186-B-5-A

Lab Sample ID: 410-91186-5

Client ID: EB_071322

Operator ID: US19_USR_INS20260

ALS Bottle#: 28

Worklist Smp#: 20

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

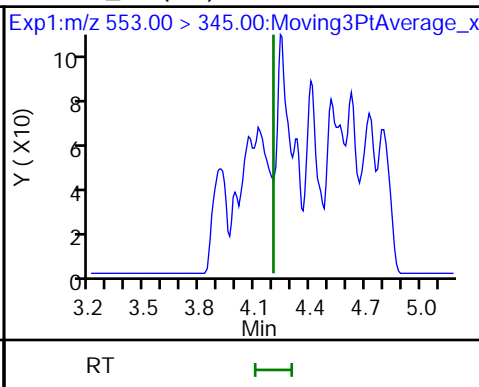
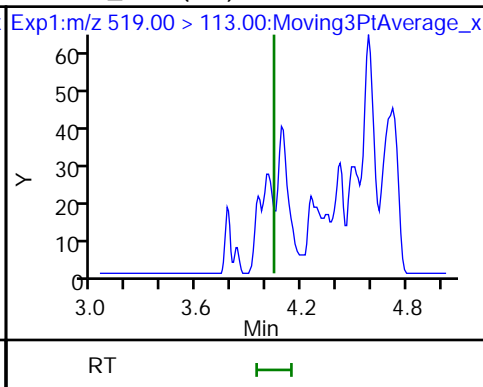
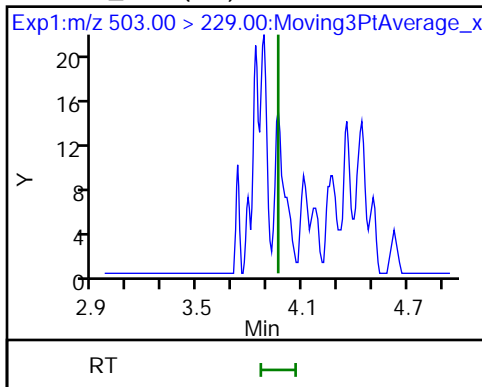
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

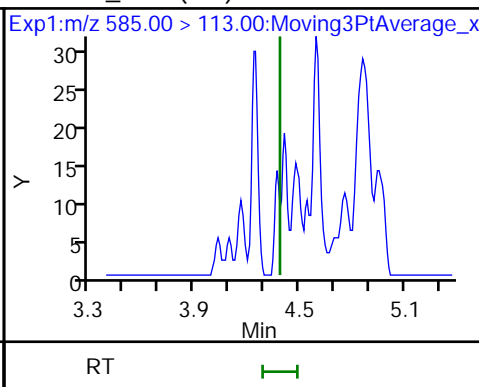
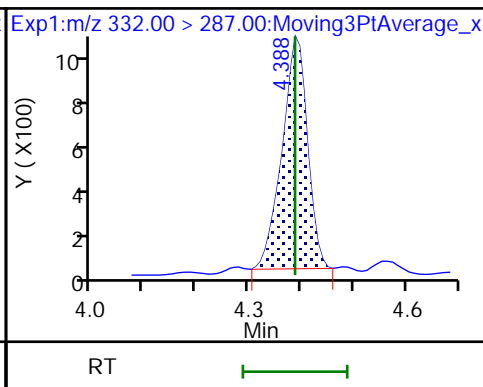
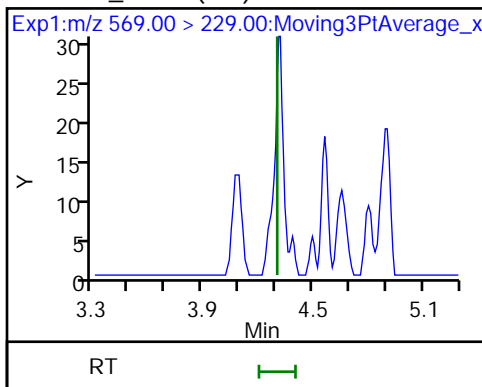
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

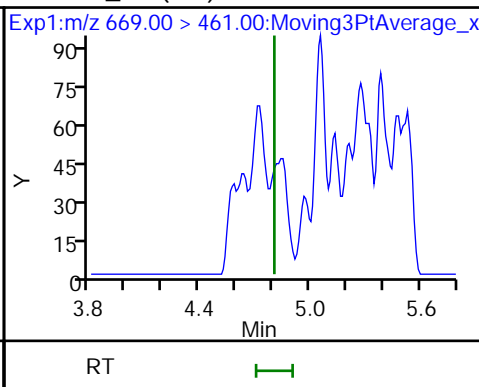
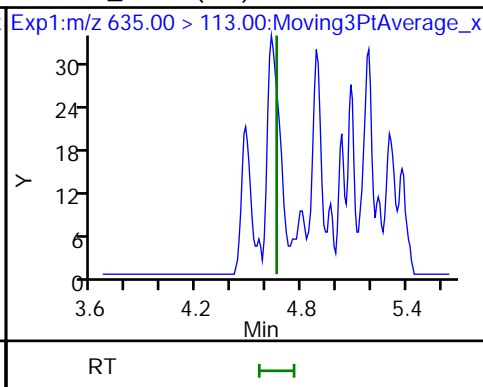
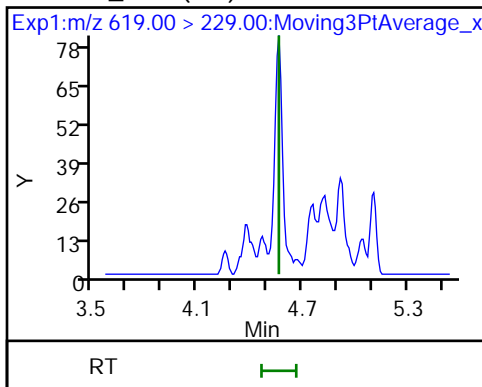
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

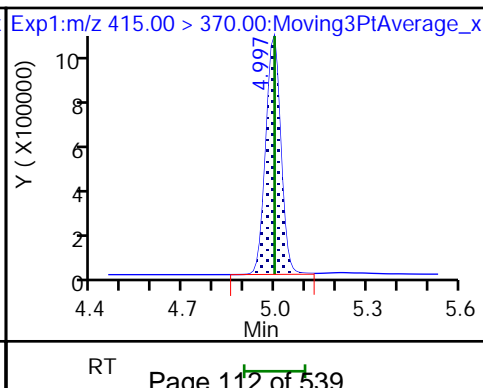
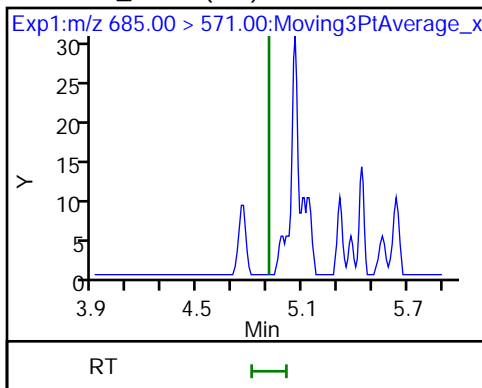
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_071322 Lab Sample ID: 410-91186-5

Matrix: Water Lab File ID: 22AUG13BFS-32.d

Analysis Method: BFS Date Collected: 07/13/2022 10:15

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 277.2 (mL) Date Analyzed: 08/14/2022 09:06

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND	H	1.3	0.36
STL02887	BFS_A2B3	ND	H	0.99	0.36
STL02880	BFS_A3B	ND	H	0.54	0.18
STL02885	BFS_A3B2	ND	H	0.72	0.18
STL02883	BFS_A4B	ND	H	0.36	0.18
STL02879	BFS_AB2	ND	H	0.54	0.072
STL02884	BFS_AB3	ND	H	1.4	0.36
STL02881	BFS_B3	ND	H	0.63	0.27
STL02886	BFS_B4	ND	H	0.99	0.36

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	122	cn	50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-32.d
 Lims ID: 410-91186-C-5-A
 Client ID: EB_071322
 Sample Type: Client
 Inject. Date: 14-Aug-2022 09:06:41 ALS Bottle#: 27 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-C-5-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:01 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:44:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA
 332.00 > 287.00 4.343 4.346 -0.003 0.876 759652 6.08 122 1031
 * 11 13C2 PFOA
 415.00 > 370.00 4.956 4.958 -0.002 3111941 5.00 924

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-32.d

Injection Date: 14-Aug-2022 09:06:41

Instrument ID: 30733

Lims ID: 410-91186-C-5-A

Lab Sample ID: 410-91186-5

Client ID: EB_071322

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 18

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

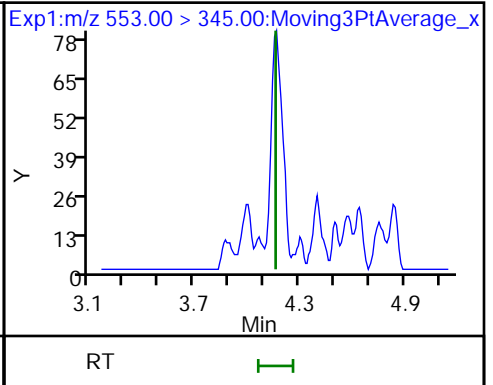
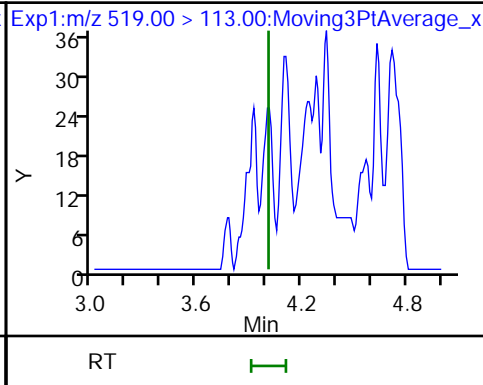
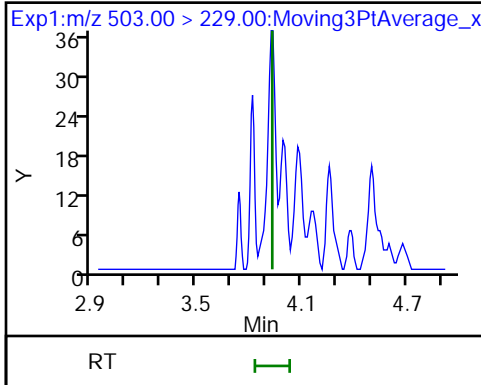
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

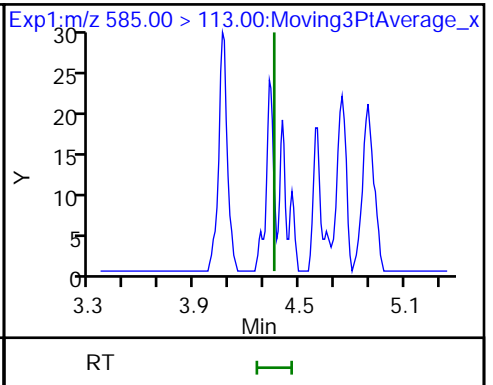
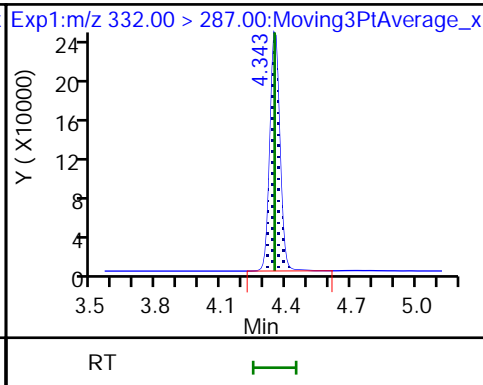
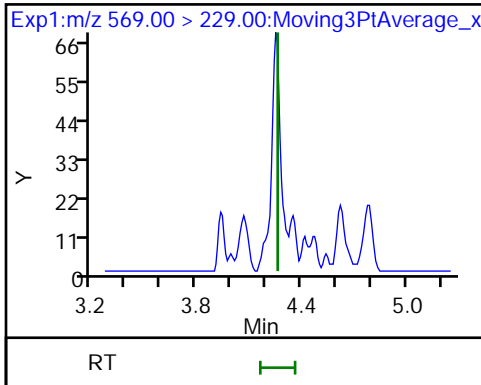
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

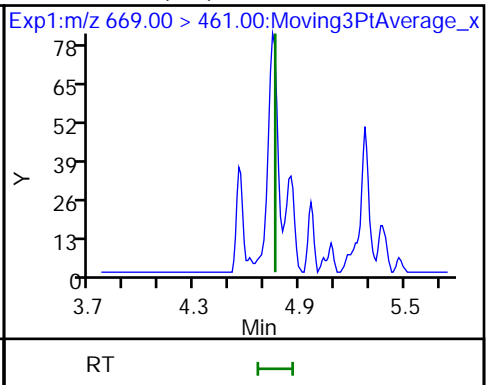
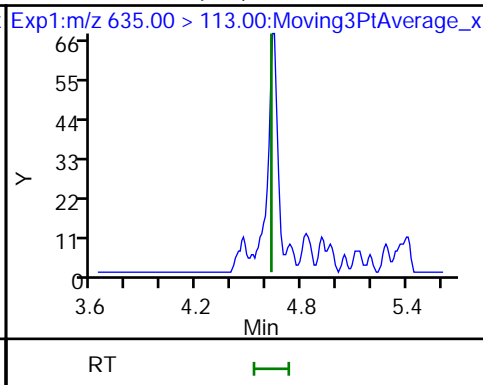
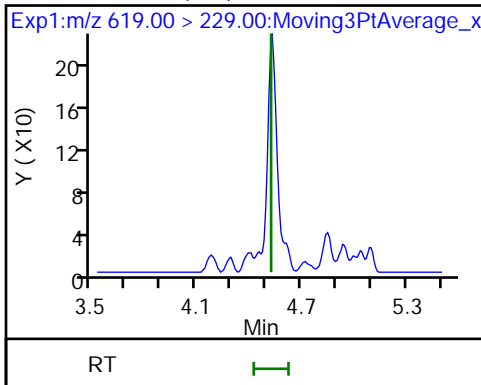
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

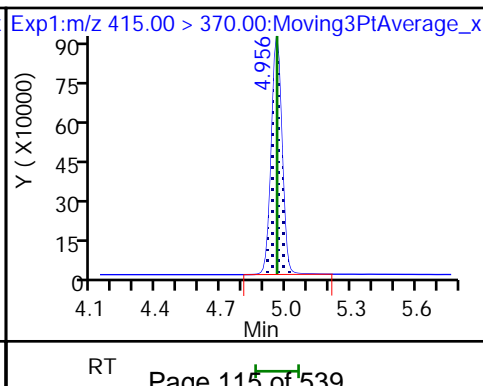
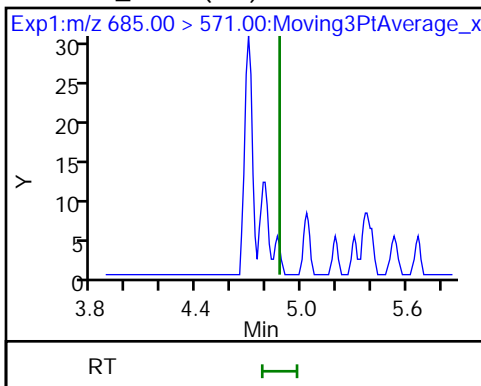
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
BFS_AB2	1.3404 1.3818	1.0770 1.3144	1.2184 1.4058	1.4039 1.3598	1.3838 1.4691	Q2ID	-0.00 2	1.314 8	0.0018105					0.9940		0.9900	
BFS_A3B	1.4208 1.5761	1.2747 1.5028	1.3456 1.6067	1.5329 1.4982	1.5943 1.7531	Q2ID	-0.00 7	1.486 0	0.0025242					0.9960		0.9900	
BFS_B3	0.7176 0.8457	0.7507 0.8215	0.7947 0.8649	0.8386 0.8343	0.8851 0.8499	L1ID	-0.02 7	0.847 0						1.0000		0.9900	
BFS_A2B2	0.5705 0.6138	0.5459 0.5822	0.5584 0.6040	0.5988 0.5628	0.6106 0.5559	L1ID	0.030 8	0.566 5						0.9990		0.9900	
BFS_A4B	1.7634 1.9293	1.8869 1.9086	1.8419 1.9499	1.8717 1.9071	1.9847 1.9633	L1ID	-0.00 8	1.945 3						1.0000		0.9900	
BFS_AB3	0.7412 0.7786	0.7385 0.7256	0.7565 0.7279	0.7607 0.6898	0.7988 0.6494	Q2ID	-0.01 0	0.763 3	-0.000169					0.9990		0.9900	
BFS_A3B2	1.3479 1.4587	1.2949 1.3295	1.3965 1.4715	1.4205 1.3884	1.4313 1.3327	Q2ID	-0.00 6	1.414 9	-0.000549					0.9990		0.9900	
BFS_B4	0.4078 0.4627	0.4878 0.4887	0.4421 0.4678	0.4711 0.4603	0.4783 0.4481	L1ID	0.003 0	0.456 1						0.9990		0.9900	
BFS_A2B3	++++ 0.0410	++++ 0.0423	0.0463 0.0429	0.0526 0.0452	0.0384 0.0445	Q2ID	0.000 3	0.042 2	0.0002171					0.9900		0.9900	
13C3 HFPO-DA	0.2198 0.2053	0.2184 0.2197	0.2232 0.2168	0.2111 0.2105	0.2122 0.2054	Ave		0.214 3			2.9						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		Q2ID	7810	19911	59281	168892	326863	0.0445	0.134	0.356	0.891	1.78
			783975	1538103	3198611	5851103	15424775	4.45	8.91	17.8	35.6	89.1
BFS_A3B		Q2ID	9252	26338	73171	206104	420871	0.0498	0.149	0.398	0.995	1.99
			999379	1965503	4085759	7205025	20573000	4.98	9.95	19.9	39.8	99.5
BFS_B3		L1ID	14879	49391	137604	359047	744046	0.158	0.475	1.27	3.17	6.34
			1707610	3421113	7003349	12776032	31759941	15.8	31.7	63.4	127	317
BFS_A2B2		L1ID	25907	78667	211759	561437	1124117	0.347	1.04	2.78	6.94	13.9
			2714045	5309692	10710611	18872981	45491370	34.7	69.4	139	278	694
BFS_A4B		L1ID	6346	21546	55352	139072	289554	0.0275	0.0825	0.220	0.550	1.10
			676057	1379451	2740234	5068364	12732378	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID	36072	114037	307463	764392	1576044	0.372	1.12	2.98	7.44	14.9
			3689715	7092409	13833158	24793733	56956631	37.2	74.4	149	298	744
BFS_A3B2		Q2ID	11549	35204	99924	251306	497178	0.0655	0.196	0.524	1.31	2.62
			1217047	2287806	4923751	8785418	20577614	6.55	13.1	26.2	52.4	131
BFS_B4		L1ID	4612	17506	41754	110007	219296	0.0864	0.259	0.692	1.73	3.46
			509550	1110166	2066265	3844514	9133524	8.64	17.3	34.6	69.2	173
BFS_A2B3		Q2ID	++++	++++	331	931	1335	++++	++++	0.0524	0.131	0.262
			3417	7278	14370	28574	68639	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	654204	691937	682883	675382	663036	5.00	5.00	5.00	5.00	5.00
			637015	656951	638673	603912	589465	5.00	5.00	5.00	5.00	5.00

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Curve Type Legend

Ave = Average ISTD L1ID = Linear 1/conc IsoDil Q2ID = Quadratic 1/conc ² IsoDil
--

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 283892

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 00:03 Calibration End Date: 08/09/2022 01:56 Calibration ID: 41560

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283892/1	22AUG08BFSCAL-03.d
Level 2	IC 410-283892/2	22AUG08BFSCAL-04.d
Level 3	IC 410-283892/3	22AUG08BFSCAL-05.d
Level 4	IC 410-283892/4	22AUG08BFSCAL-06.d
Level 5	ICISAV 410-283892/5	22AUG08BFSCAL-07.d
Level 6	IC 410-283892/6	22AUG08BFSCAL-08.d
Level 7	IC 410-283892/7	22AUG08BFSCAL-09.d
Level 8	IC 410-283892/8	22AUG08BFSCAL-10.d
Level 9	IC 410-283892/9	22AUG08BFSCAL-11.d
Level 10	IC 410-283892/10	22AUG08BFSCAL-12.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
BFS_AB2	5.9	-16.8	-6.9	6.8	5.1	4.5	50	30	30	30	30	30
	-1.2	4.3	-1.3	-0.4			30	30	30	30		
BFS_A3B	4.4	-11.3	-8.4	3.4	7.1	5.2	50	30	30	30	30	30
	-0.5	4.5	-5.2	0.8			30	30	30	30		
BFS_B3	5.0	-4.6	-3.6	0.0	5.0	0.1	50	30	30	30	30	30
	-2.9	2.2	-1.5	0.4			30	30	30	30		
BFS_A2B2	-15.0	-8.8	-3.4	4.9	7.4	8.2	50	30	30	30	30	30
	2.7	6.6	-0.7	-1.9			30	30	30	30		
BFS_A4B	5.4	1.9	-3.5	-3.0	2.4	-0.7	50	30	30	30	30	30
	-1.8	0.3	-1.9	0.9			30	30	30	30		
BFS_AB3	0.6	-2.1	-0.4	0.0	5.1	2.9	50	30	30	30	30	30
	-3.4	-1.4	-3.5	2.4			30	30	30	30		
BFS_A3B2	2.0	-6.2	-0.4	0.8	1.4	3.4	50	30	30	30	30	30
	-5.6	5.1	0.2	-0.8			30	30	30	30		
BFS_B4	-18.2	4.4	-4.0	2.9	4.7	1.4	50	30	30	30	30	30
	7.1	2.6	0.9	-1.8			30	30	30	30		
BFS_A2B3	+++++	+++++	-4.8	18.9	-11.9	-4.3			50	30	30	30
	-0.9	0.2	4.0	-1.2			30	30	30	30		
13C3 HFPO-DA		1.9	4.2	-1.5	-0.9	-4.2		30	30	30	30	30
	2.5	1.2	-1.7	-4.1			30	30	30	30		

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Aug-2022 00:03:08 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:43 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:40:08

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.971	3.964	0.007	0.903	7810	0.0472	106	153	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.920	9252	0.0520	104	59.3	M
3 BFS_B3									M
553.00 > 345.00	4.216	4.203	0.013	0.958	14879	0.1664	105	52.7	M
4 BFS_A2B2									M
569.00 > 229.00	4.315	4.306	0.009	0.981	25907	0.2952	85.0	142	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.398	4.390	0.008	0.879	654204	5.13	103	274	
5 BFS_A4B									M
585.00 > 113.00	4.407	4.395	0.012	1.002	6346	0.0290	105	78.4	M
7 BFS_AB3									
619.00 > 229.00	4.577	4.569	0.008	1.041	36072	0.3742	101	222	
8 BFS_A3B2									M
635.00 > 113.00	4.687	4.671	0.016	1.066	11549	0.0668	102	82.9	M
9 BFS_B4									M
669.00 > 461.00	4.817	4.807	0.010	1.095	4612	0.0707	81.8	14.4	M
* 11 13C2 PFOA									
415.00 > 370.00	5.006	4.998	0.008		2976612	5.00		333	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

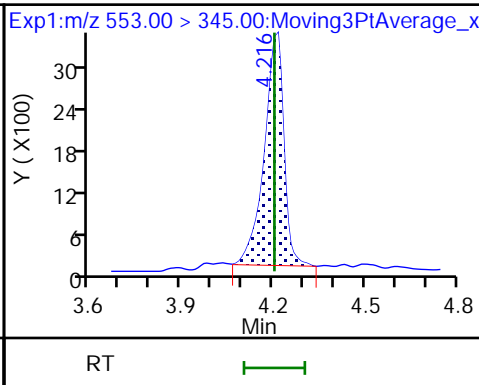
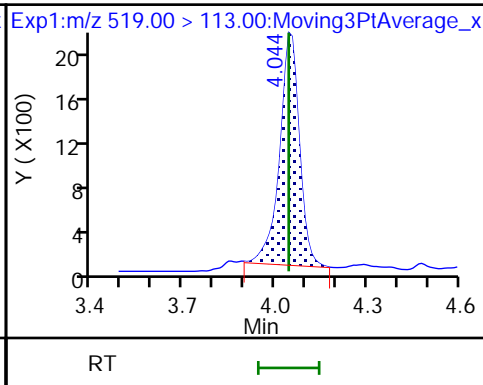
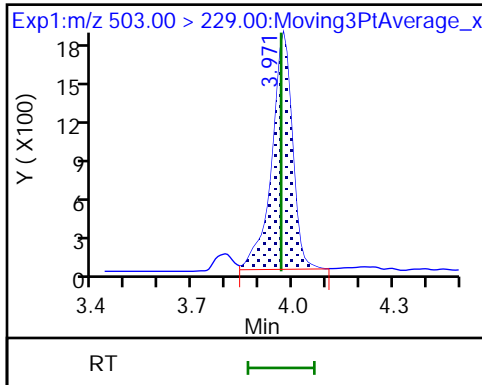
Amount Added: 200.00

Units: uL

1 BFS_AB2 (M)

2 BFS_A3B (M)

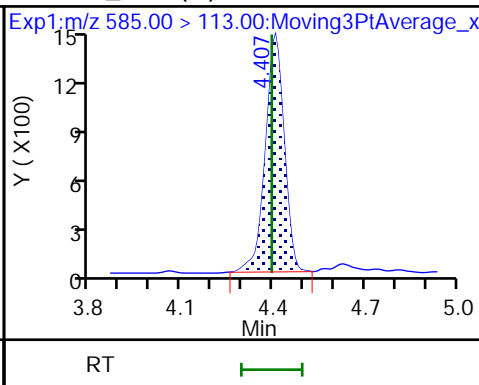
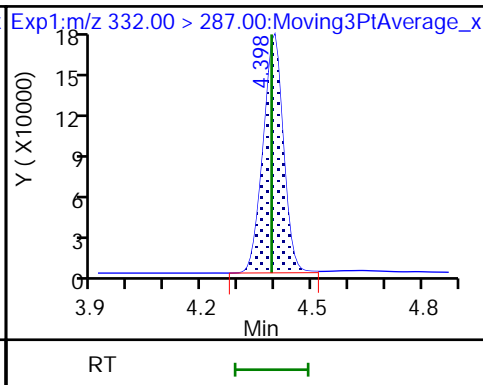
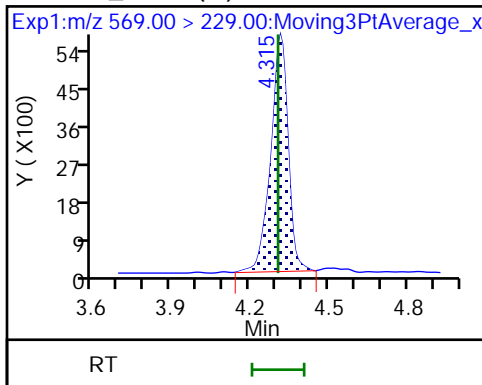
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

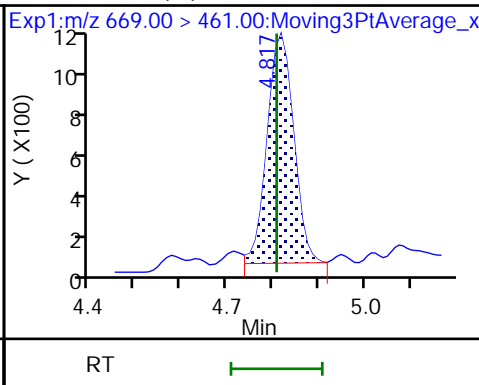
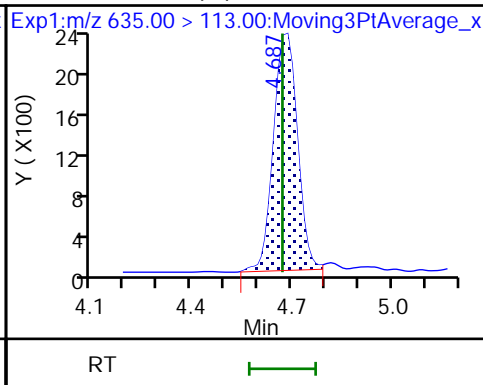
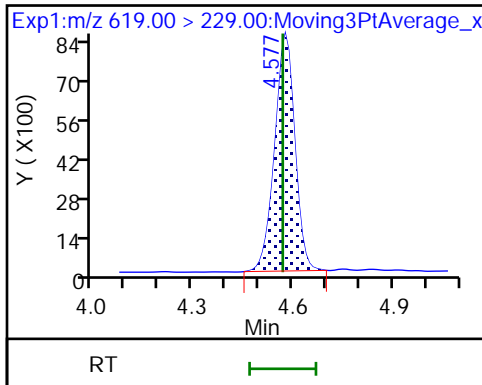
5 BFS_A4B (M)



7 BFS_AB3

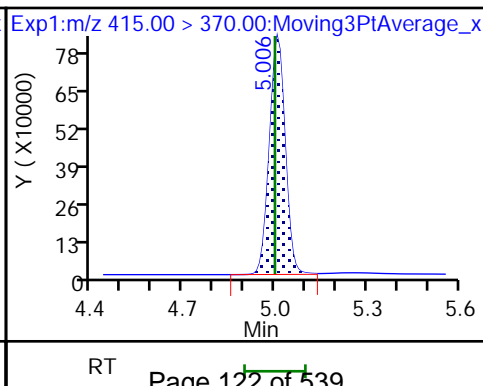
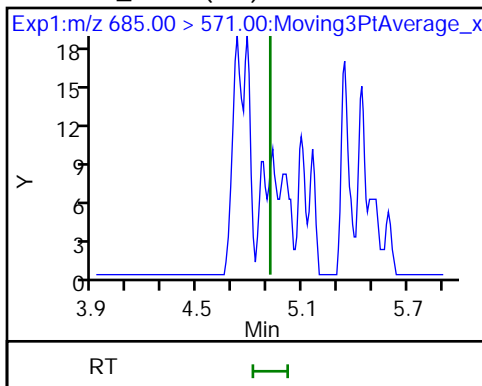
8 BFS_A3B2 (M)

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

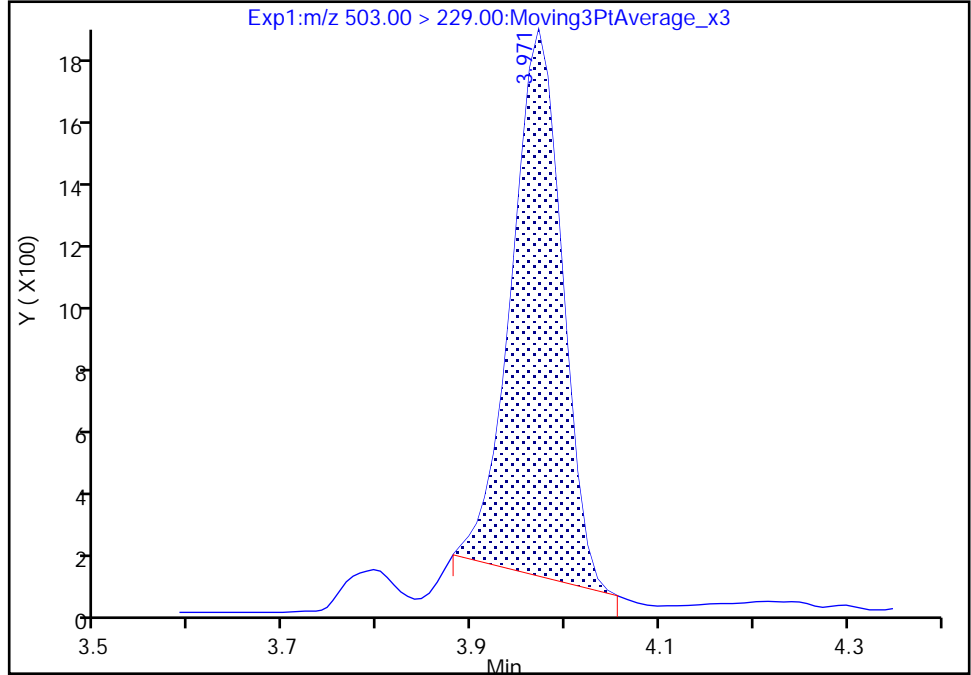
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Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

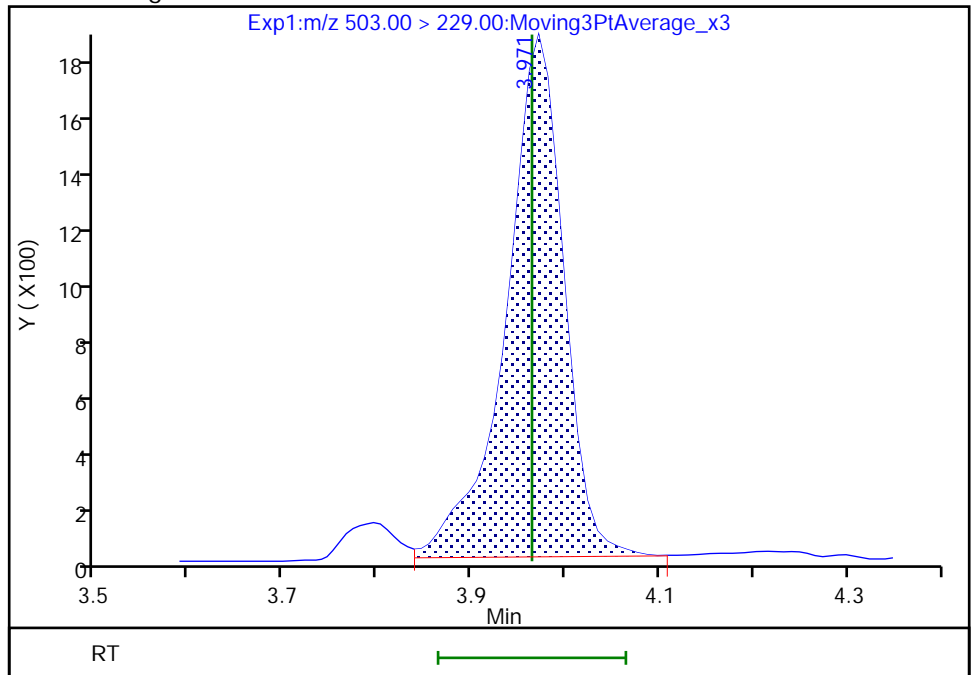
RT: 3.97
Area: 6499
Amount: 0.058350
Amount Units: ng/ml

Processing Integration Results



RT: 3.97
Area: 7810
Amount: 0.047173
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:38:46
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

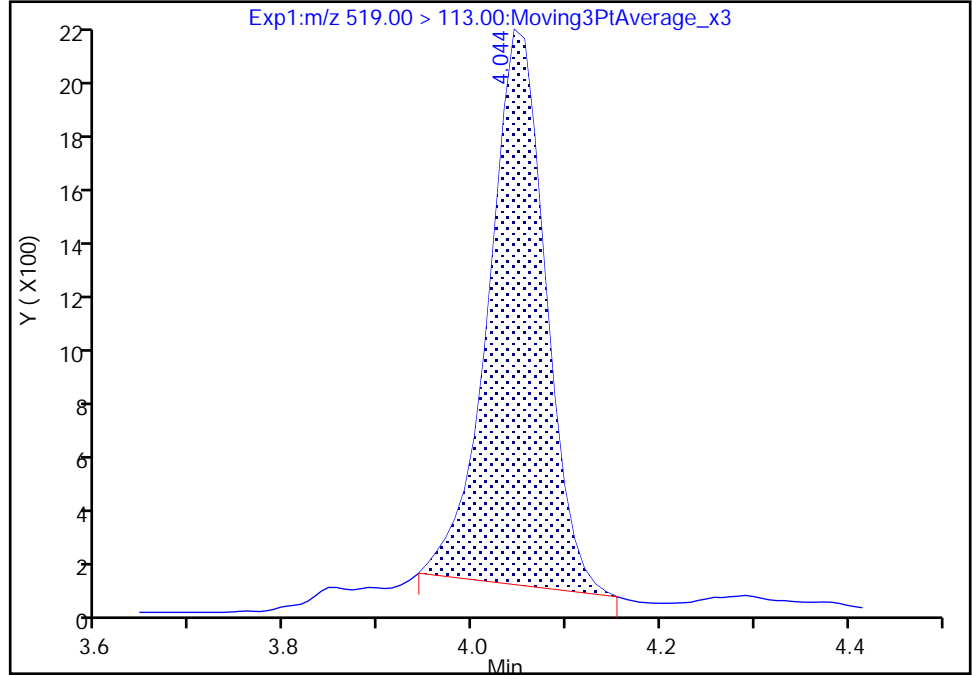
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Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

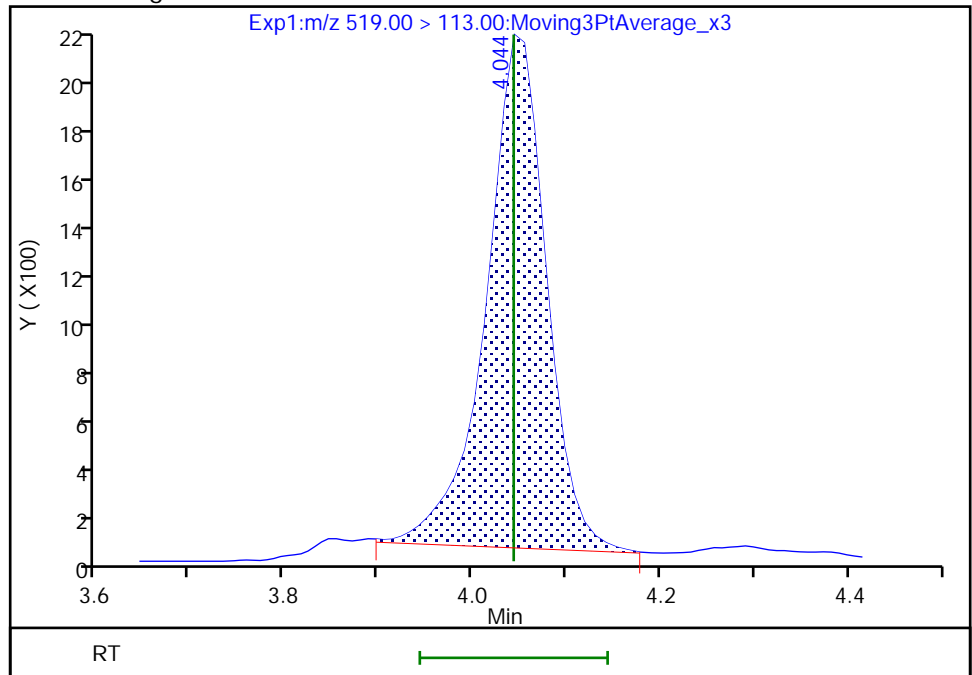
RT: 4.04
Area: 8564
Amount: 0.072269
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 9252
Amount: 0.051967
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:29
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

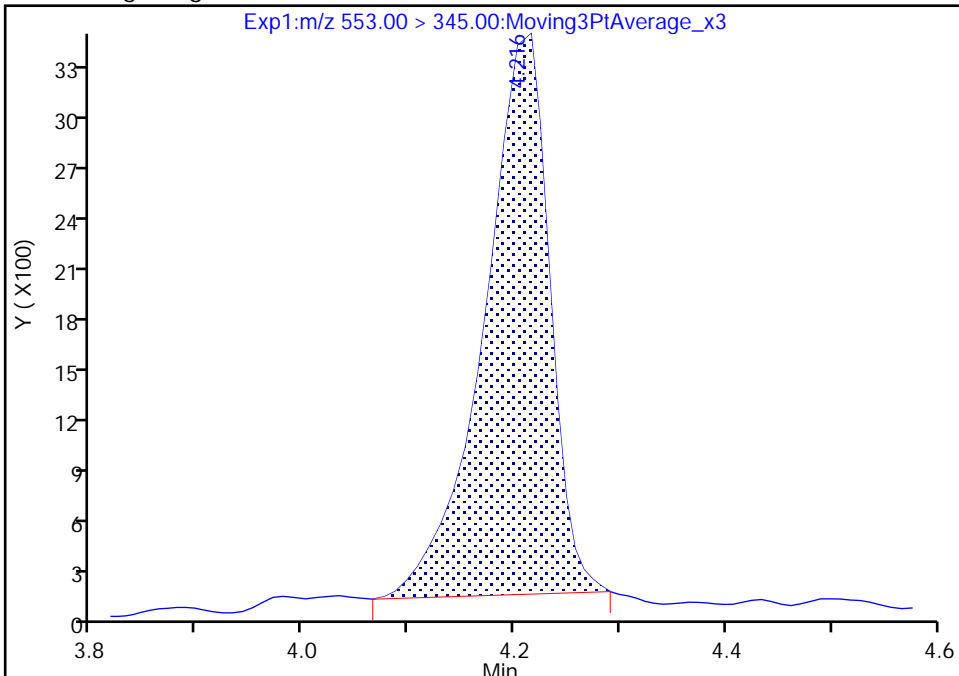
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Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

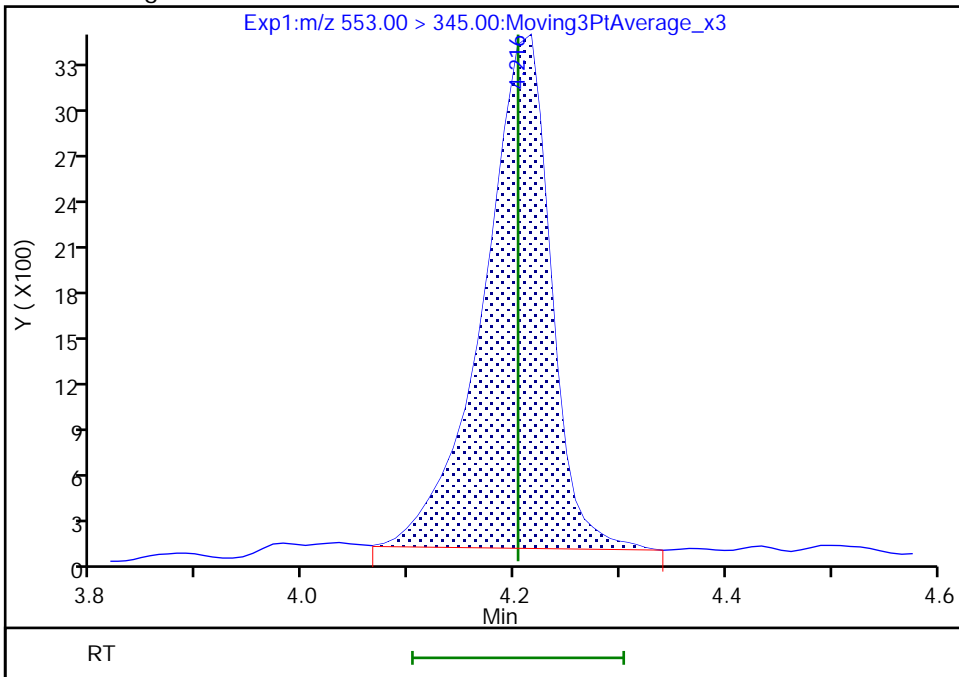
RT: 4.22
Area: 14282
Amount: 0.171226
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 14879
Amount: 0.166402
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:34
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

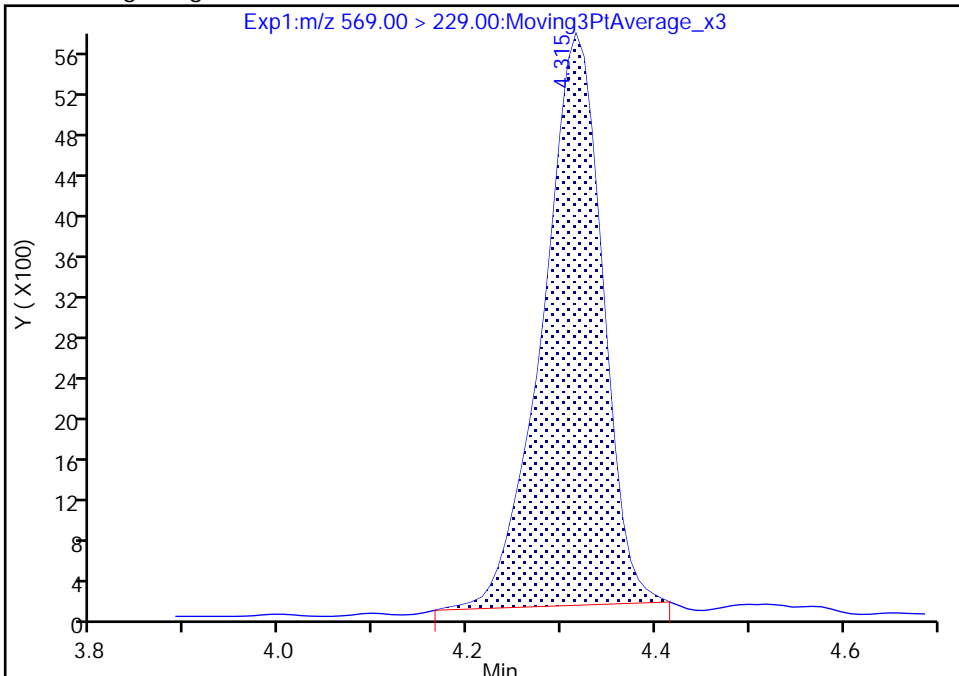
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Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

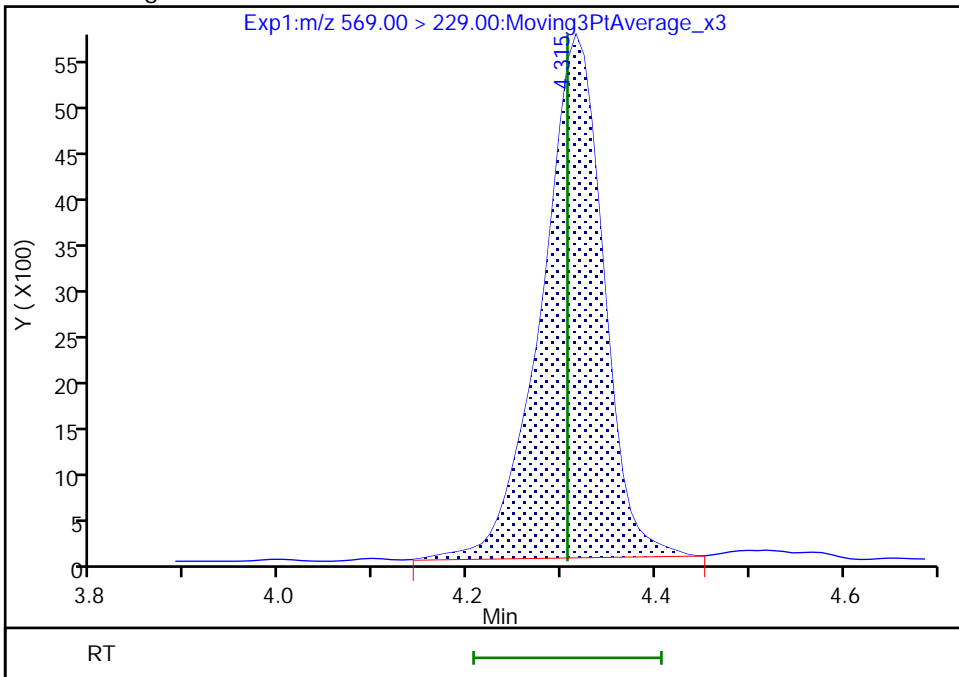
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Area: 24789
Amount: 0.323697
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
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Amount: 0.295178
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:38
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

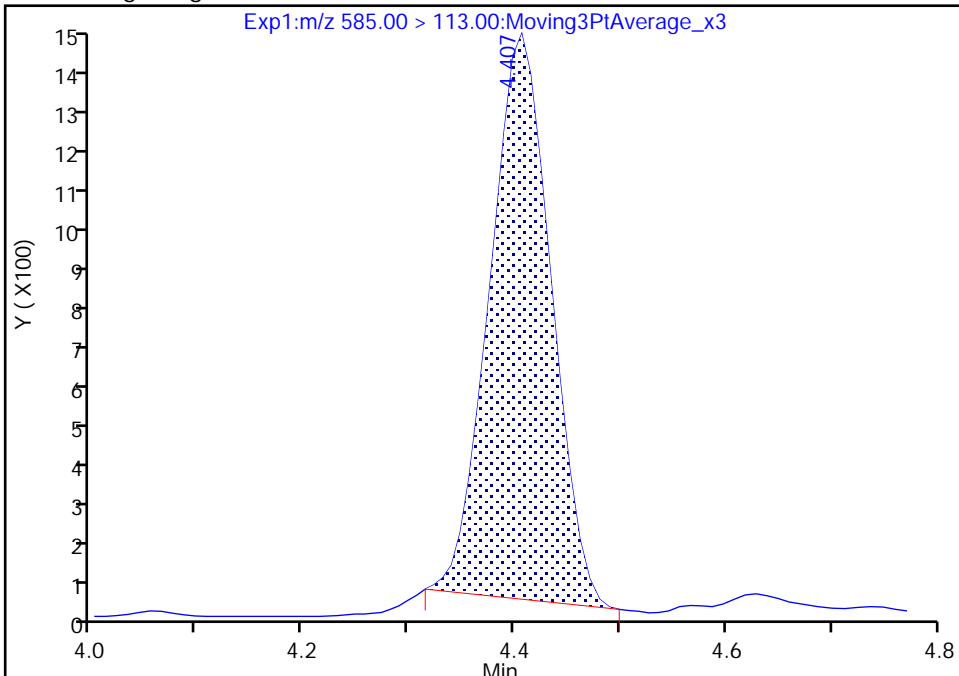
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Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

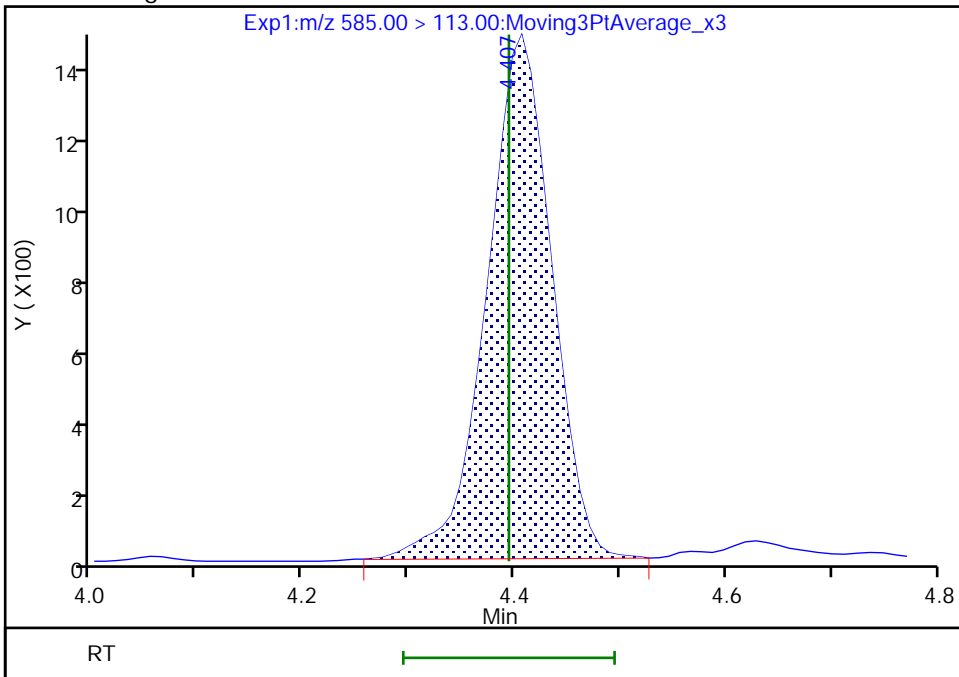
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Amount Units: ng/ml

Processing Integration Results



RT: 4.41
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Amount: 0.029000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:43
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

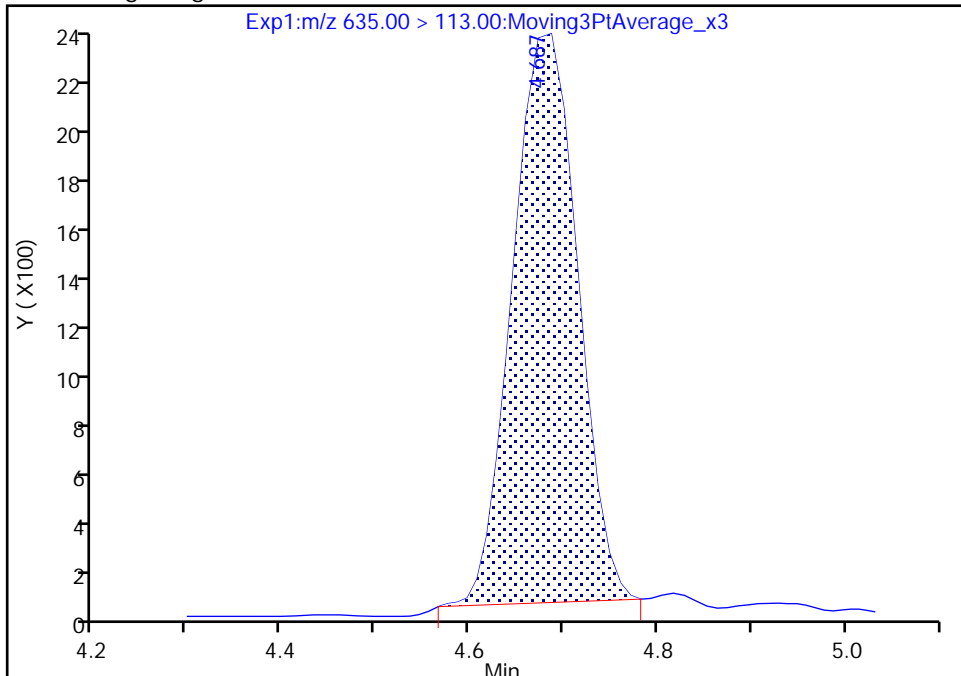
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Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

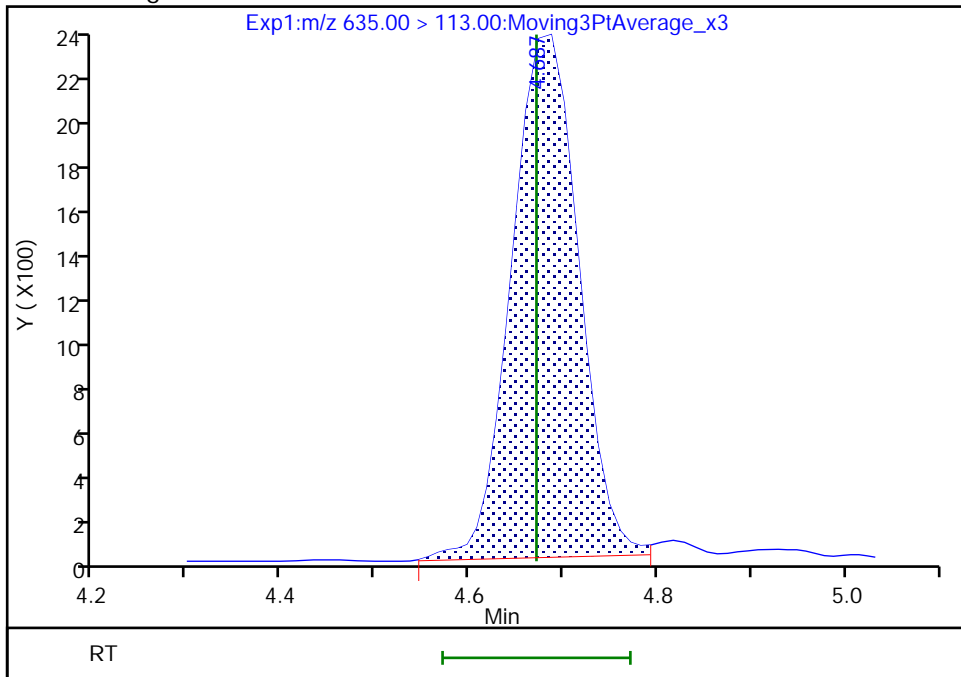
RT: 4.69
Area: 11007
Amount: 0.056855
Amount Units: ng/ml

Processing Integration Results



RT: 4.69
Area: 11549
Amount: 0.066819
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:39:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

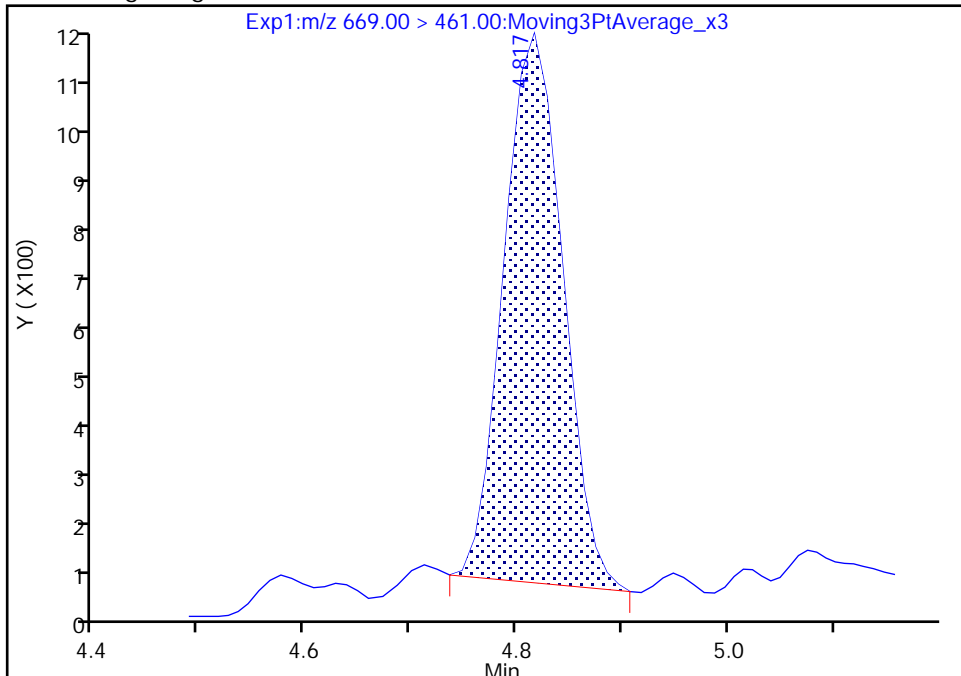
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-03.d
Injection Date: 09-Aug-2022 00:03:08 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

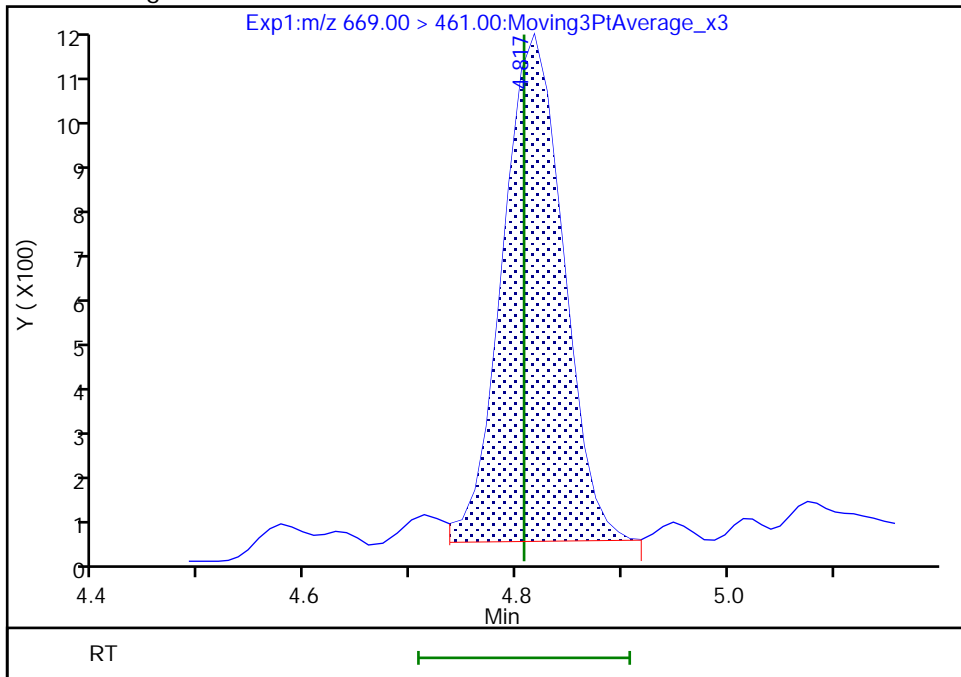
RT: 4.82
Area: 4379
Amount: 0.069390
Amount Units: ng/ml

Processing Integration Results



RT: 4.82
Area: 4612
Amount: 0.070746
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:40:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Aug-2022 00:15:42 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:44 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:00

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.962	3.964	-0.002	0.902	19911	0.1112	83.2	387
2 BFS_A3B	519.00 > 113.00	4.045	4.044	0.001	0.921	26338	0.1324	88.7	57.5
3 BFS_B3	553.00 > 345.00	4.203	4.203	0.0	0.957	49391	0.4535	95.4	82.5
4 BFS_A2B2	569.00 > 229.00	4.307	4.306	0.001	0.981	78667	0.9491	91.2	143
D 6 13C3 HFPO-DA	332.00 > 287.00	4.391	4.390	0.001	0.878	691937	5.10	102	315
5 BFS_A4B	585.00 > 113.00	4.399	4.395	0.004	1.002	21546	0.0841	102	150 M
7 BFS_AB3	619.00 > 229.00	4.577	4.569	0.008	1.043	114037	1.09	97.9	202
8 BFS_A3B2	635.00 > 113.00	4.677	4.671	0.006	1.065	35204	0.1842	93.8	140
9 BFS_B4	669.00 > 461.00	4.809	4.807	0.002	1.095	17506	0.2708	104	37.5
* 11 13C2 PFOA	415.00 > 370.00	5.000	4.998	0.002		3168748	5.00		342

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d

Injection Date: 09-Aug-2022 00:15:42

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

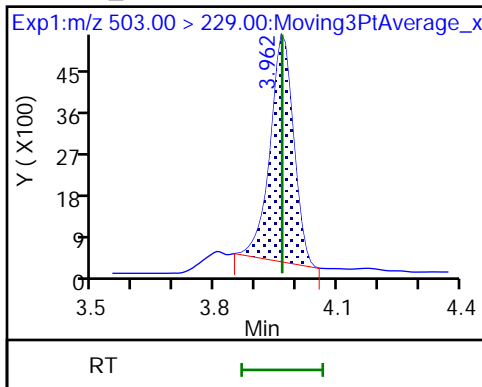
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

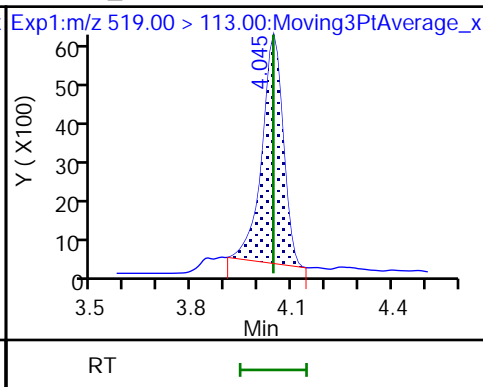
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

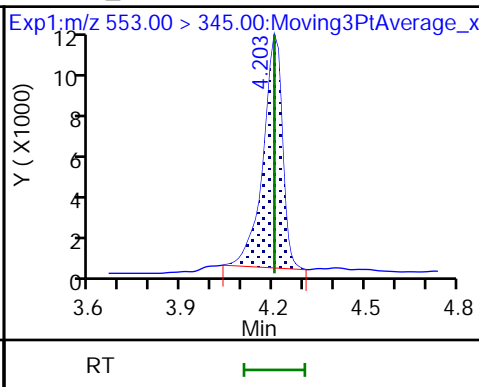
1 BFS_AB2



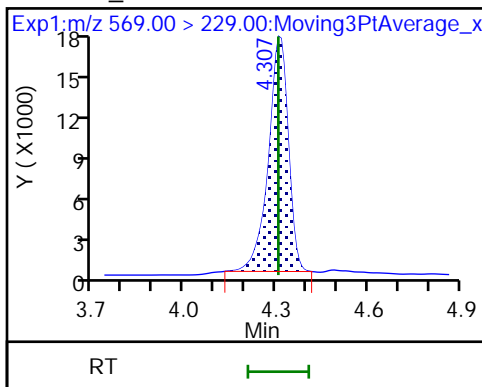
2 BFS_A3B



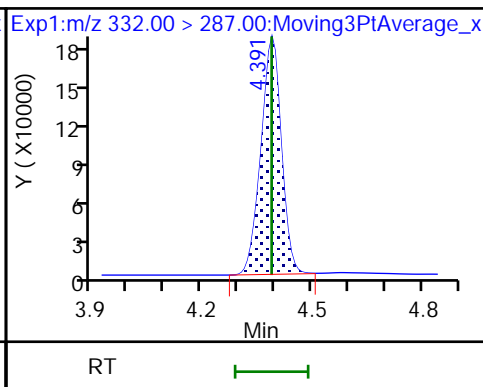
3 BFS_B3



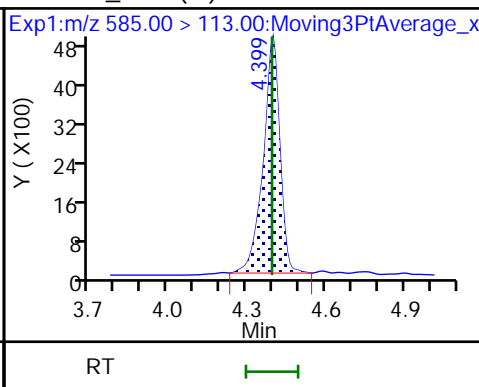
4 BFS_A2B2



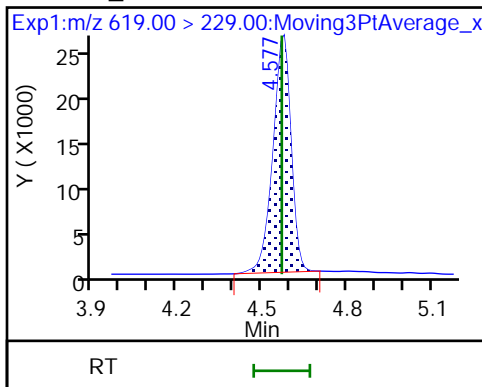
D 6 13C3 HFPO-DA



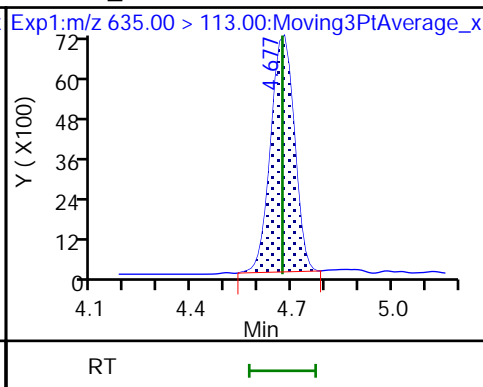
5 BFS_A4B (M)



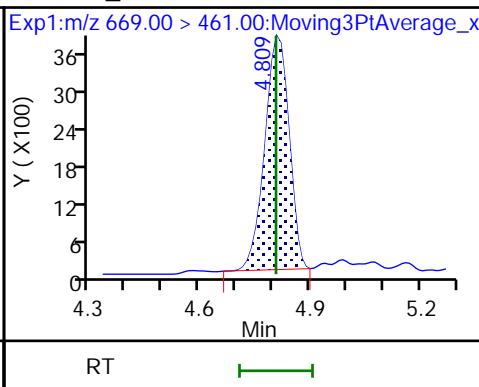
7 BFS_AB3



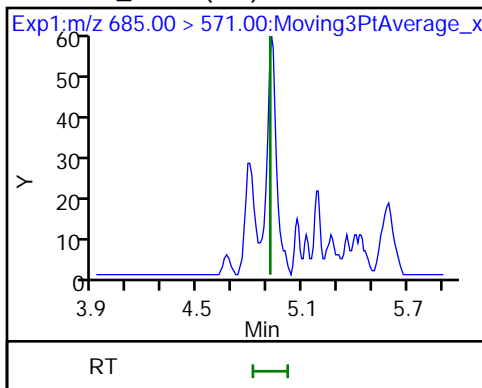
8 BFS_A3B2



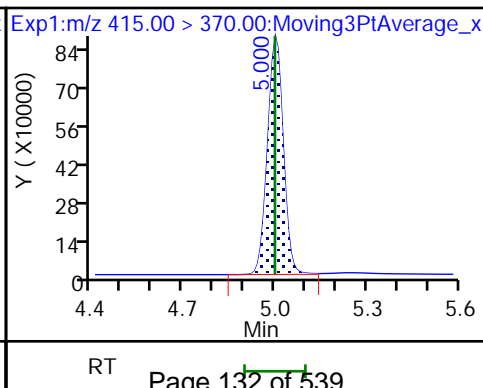
9 BFS_B4



10 BFS_A2B3 (ND)



* 11 13C2 PFOA



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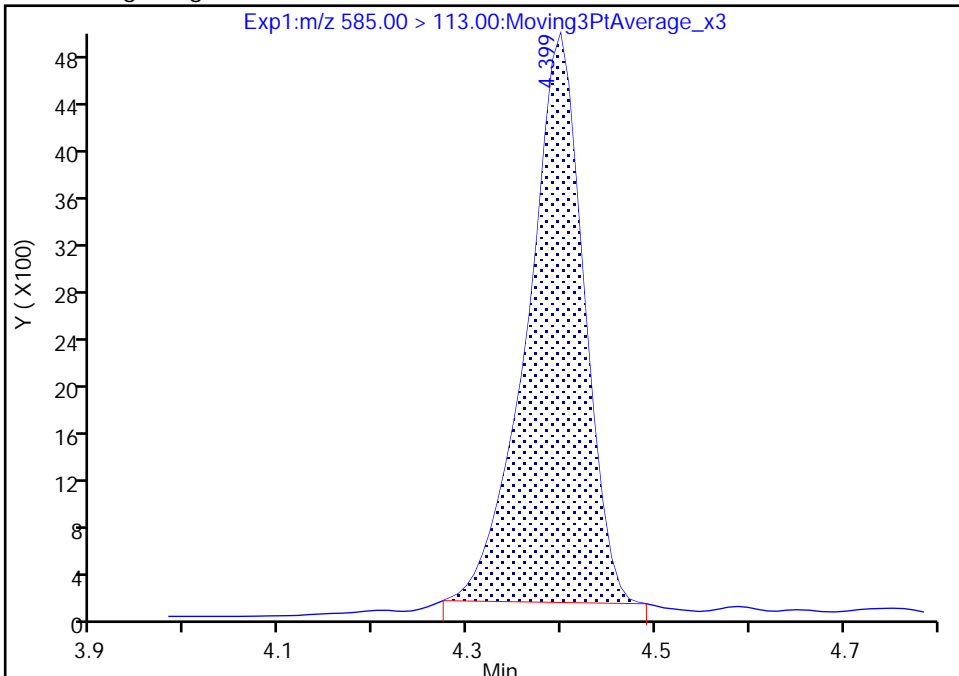
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-04.d
Injection Date: 09-Aug-2022 00:15:42 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

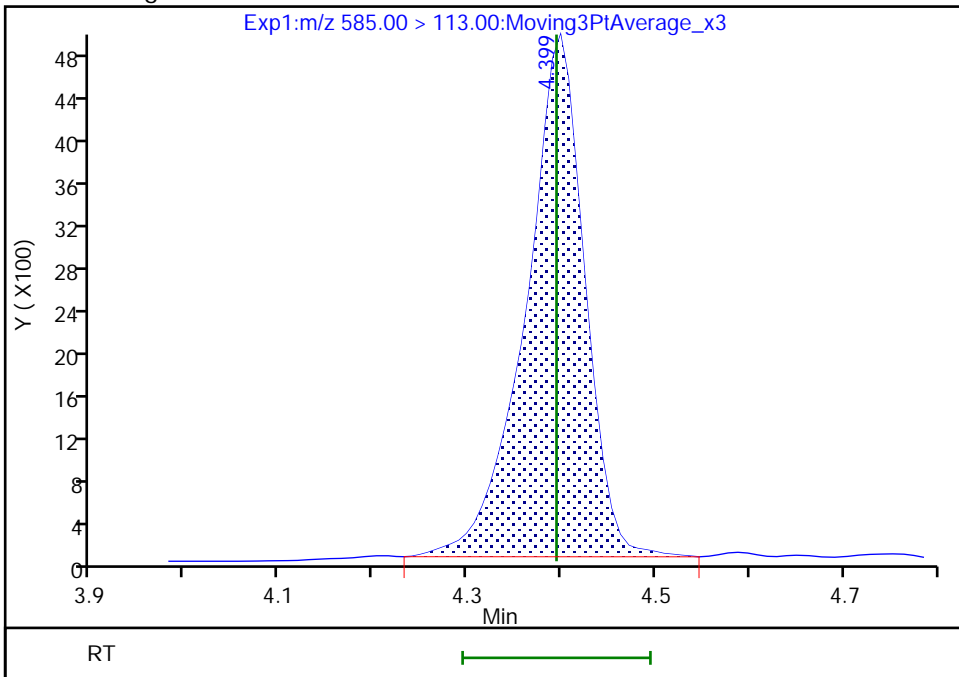
RT: 4.40
Area: 20345
Amount: 0.080727
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 21546
Amount: 0.084101
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:40:54
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Aug-2022 00:28:16 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:45 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:40

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.962	3.964	-0.002	0.902	59281	0.3318	93.1	842	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.921	73171	0.3647	91.6	71.4	M
3 BFS_B3									M
553.00 > 345.00	4.203	4.203	0.0	0.957	137604	1.22	96.4	94.9	M
4 BFS_A2B2									
569.00 > 229.00	4.307	4.306	0.001	0.981	211759	2.68	96.6	155	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.390	4.390	0.0	0.879	682883	5.21	104	291	
5 BFS_A4B									
585.00 > 113.00	4.399	4.395	0.004	1.002	55352	0.2124	96.5	128	
7 BFS_AB3									
619.00 > 229.00	4.567	4.569	-0.002	1.040	307463	2.96	99.6	213	
8 BFS_A3B2									
635.00 > 113.00	4.673	4.671	0.002	1.065	99924	0.5216	99.6	173	
9 BFS_B4									
669.00 > 461.00	4.805	4.807	-0.002	1.094	41754	0.6637	96.0	90.7	
10 BFS_A2B3									M
685.00 > 571.00	4.939	4.915	0.024	1.125	331	0.0499	95.2	10.5	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.001		3059096	5.00		325	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d

Injection Date: 09-Aug-2022 00:28:16

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

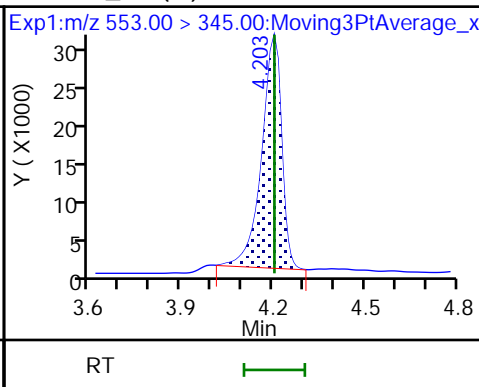
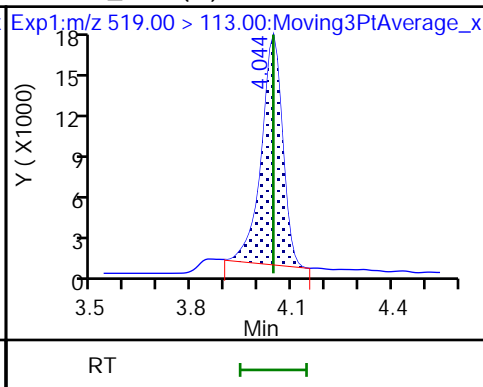
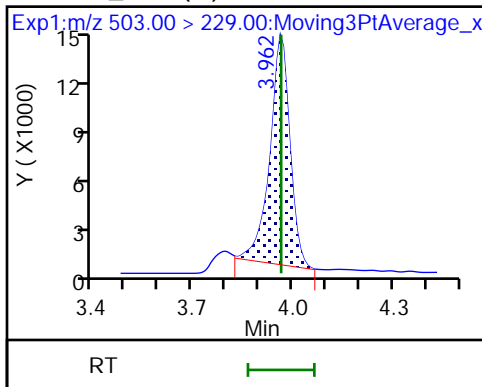
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

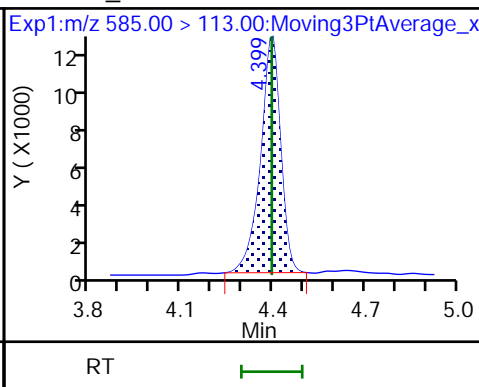
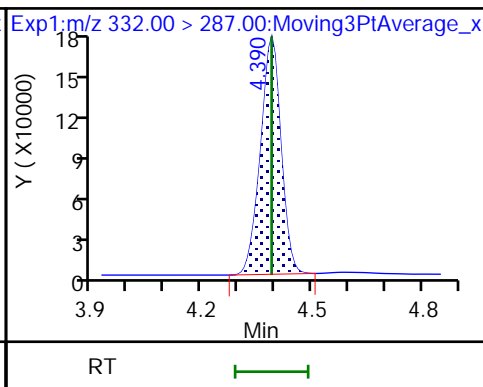
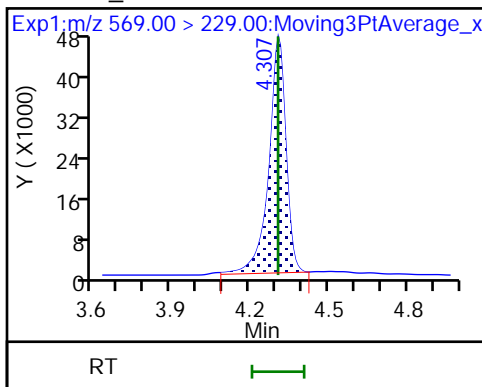
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

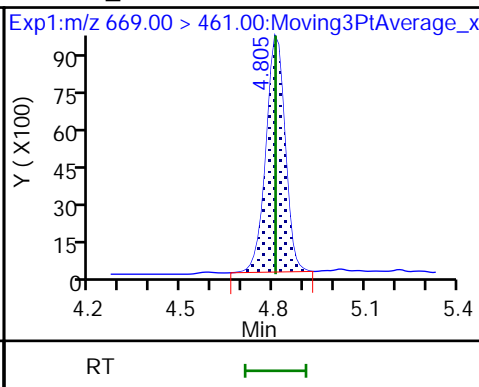
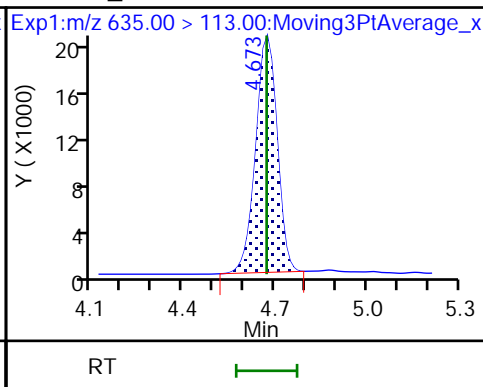
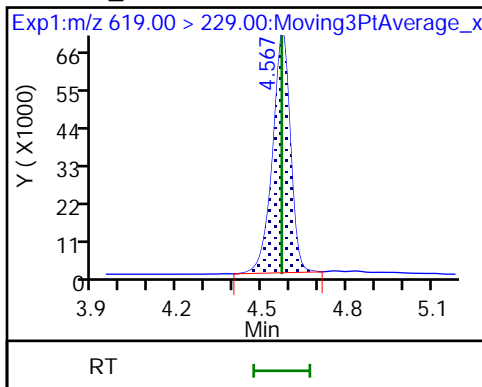
5 BFS_A4B



7 BFS_AB3

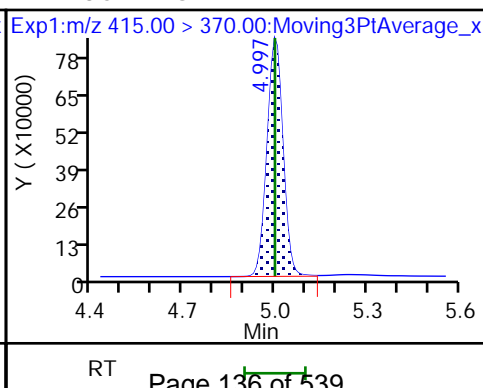
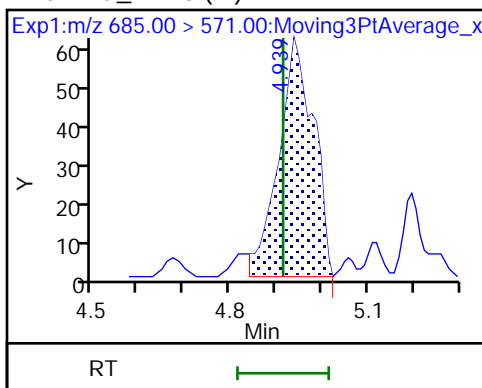
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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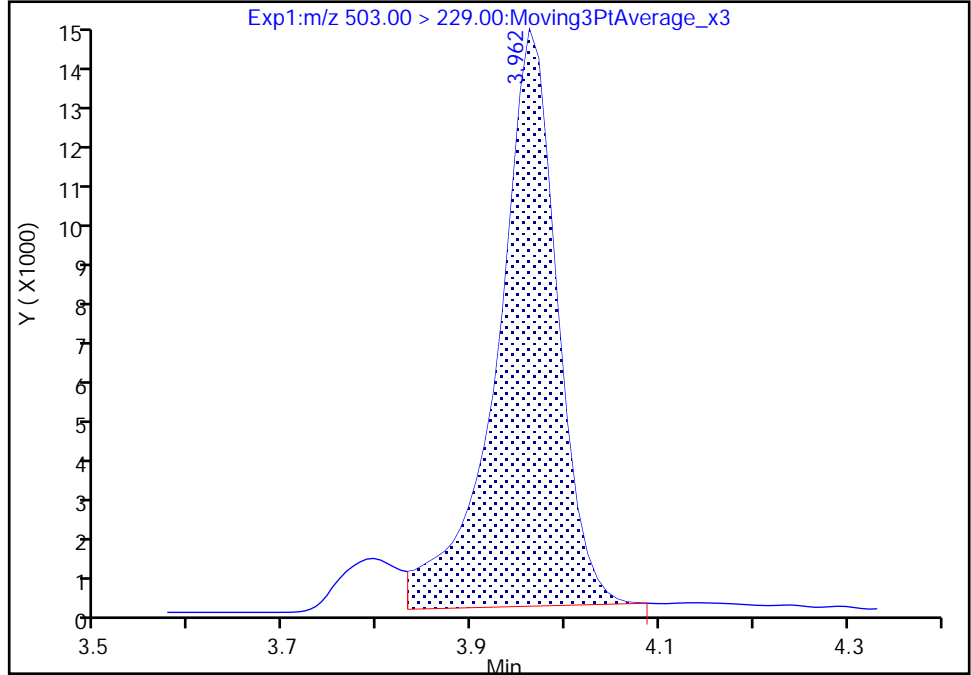
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

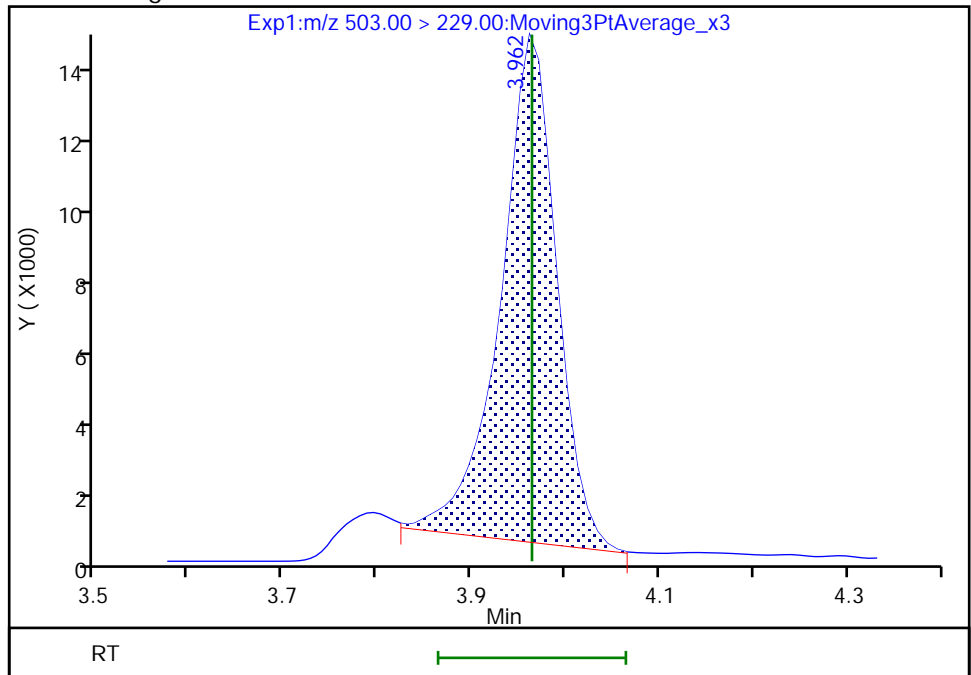
RT: 3.96
Area: 65228
Amount: 0.345869
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 59281
Amount: 0.331753
Amount Units: ng/ml

Manual Integration Results



Eurofins Lancaster Laboratories Environment Testing, LLC

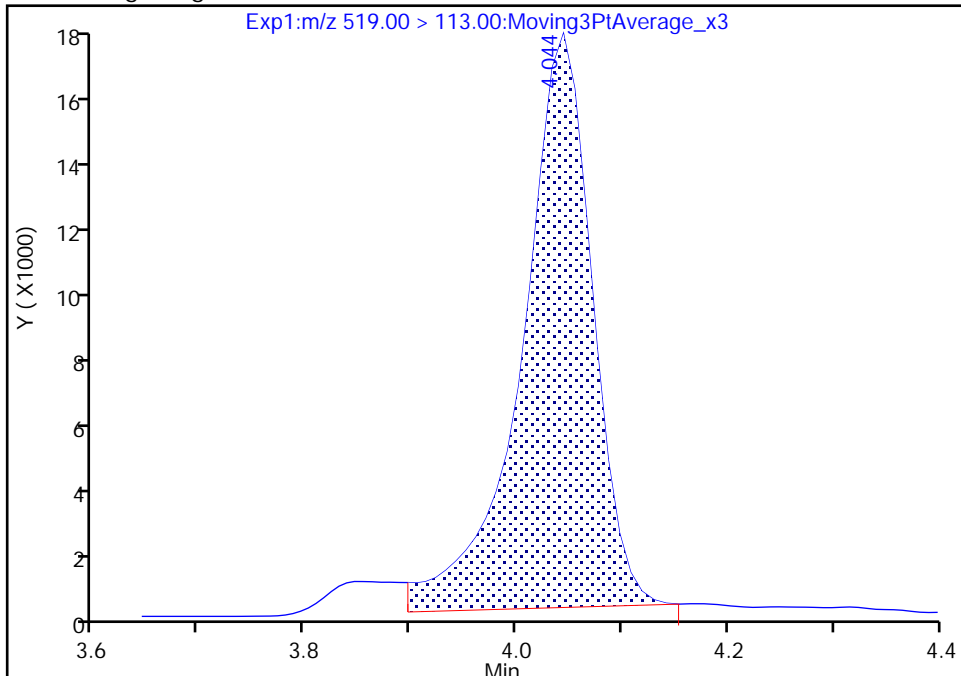
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

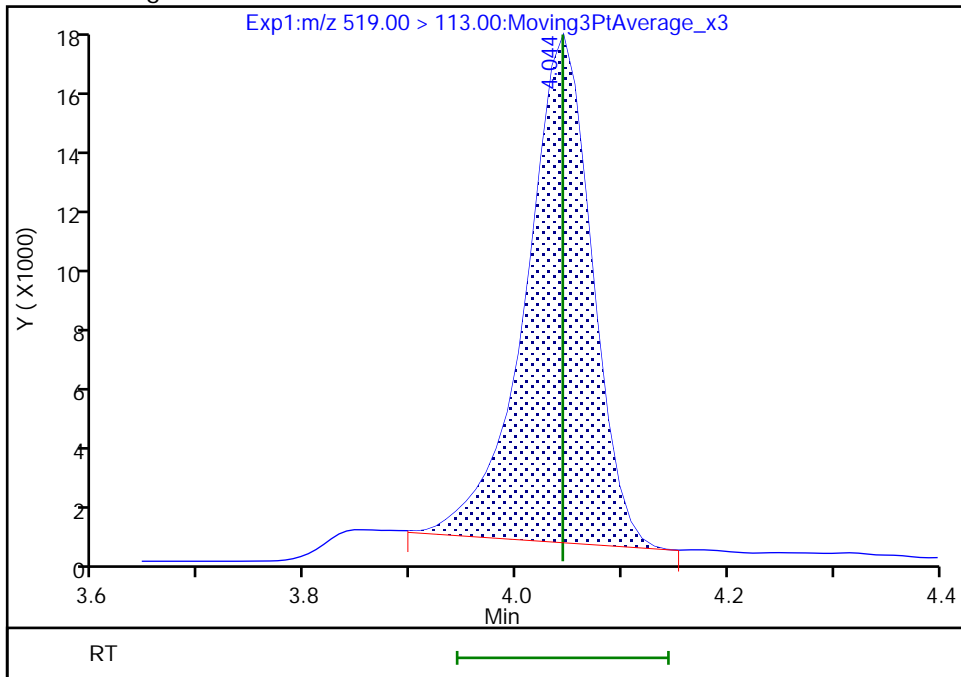
RT: 4.04
Area: 79421
Amount: 0.371267
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 73171
Amount: 0.364698
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:41:20
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

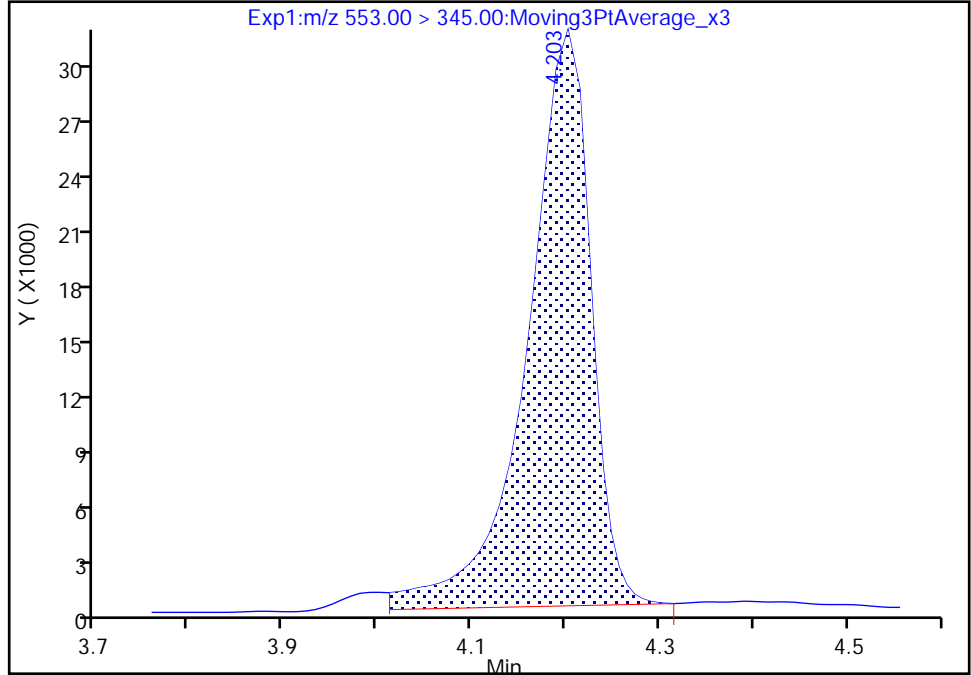
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

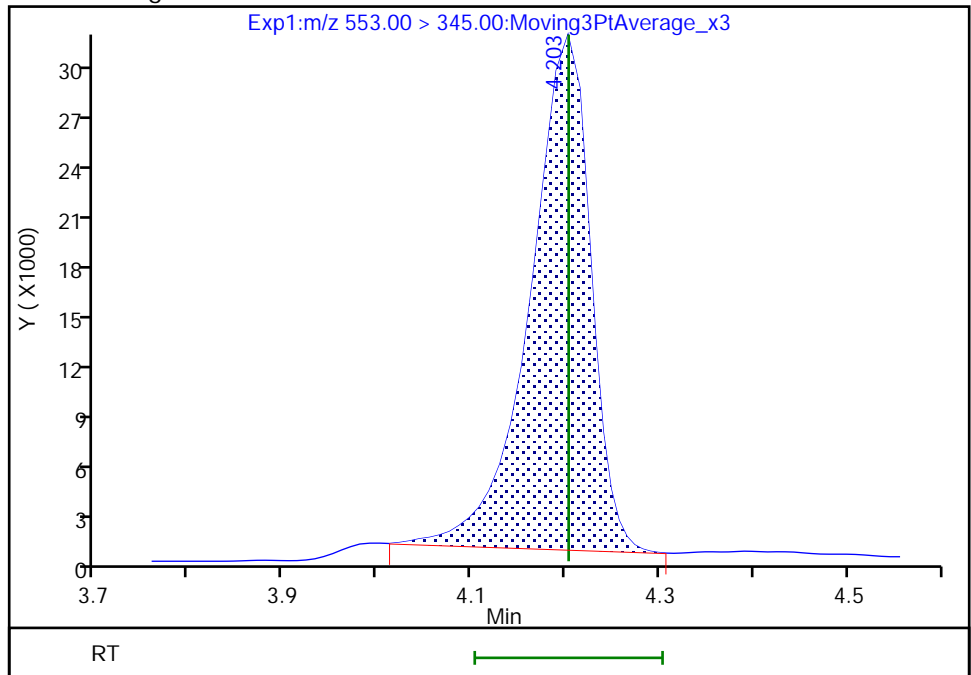
RT: 4.20
Area: 145264
Amount: 1.265293
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 137604
Amount: 1.221684
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:41:16
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

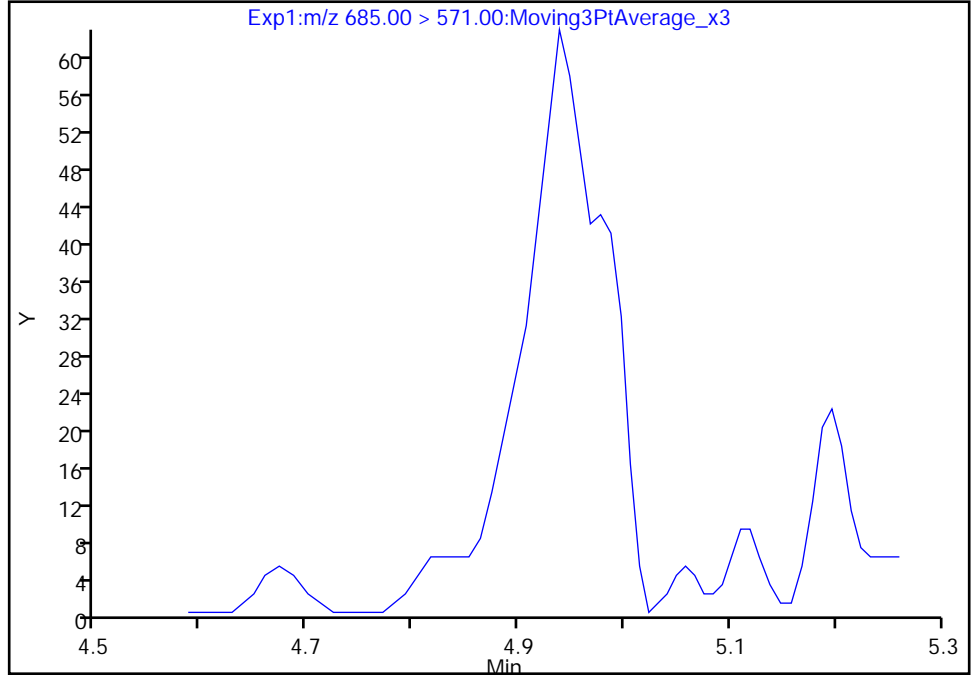
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-05.d
Injection Date: 09-Aug-2022 00:28:16 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

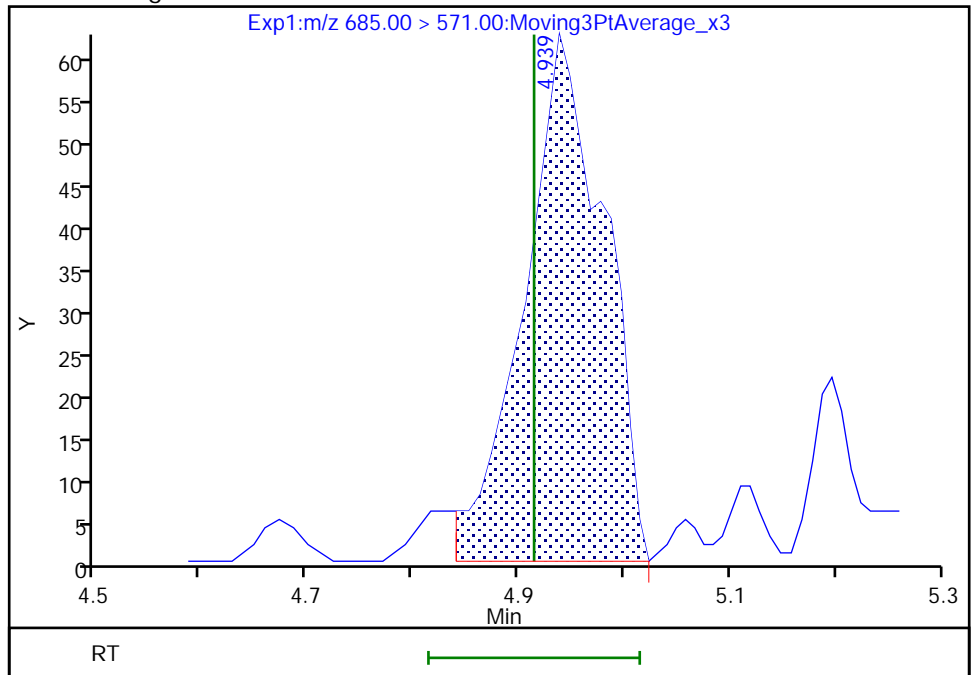
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.94
Area: 331
Amount: 0.049851
Amount Units: ng/ml



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Aug-2022 00:40:54 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:41:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.971	3.964	0.007	0.903	168892	0.9515	107	1545
2 BFS_A3B	519.00 > 113.00	4.054	4.044	0.010	0.922	206104	1.03	103	95.1
3 BFS_B3	553.00 > 345.00	4.215	4.203	0.012	0.958	359047	3.17	100	138
4 BFS_A2B2	569.00 > 229.00	4.315	4.306	0.009	0.981	561437	7.28	105	150
D 6 13C3 HFPO-DA	332.00 > 287.00	4.398	4.390	0.008	0.879	675382	4.93	98.5	304
5 BFS_A4B	585.00 > 113.00	4.398	4.395	0.003	1.000	139072	0.5333	97.0	163
7 BFS_AB3	619.00 > 229.00	4.577	4.569	0.008	1.041	764392	7.44	100	228
8 BFS_A3B2	635.00 > 113.00	4.673	4.671	0.002	1.063	251306	1.32	101	207
9 BFS_B4	669.00 > 461.00	4.817	4.807	0.010	1.095	110007	1.78	103	156
10 BFS_A2B3	685.00 > 571.00	4.918	4.915	0.003	1.118	931	0.1557	119	18.9 M
* 11 13C2 PFOA	415.00 > 370.00	5.006	4.998	0.008		3199293	5.00		368

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d

Injection Date: 09-Aug-2022 00:40:54

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

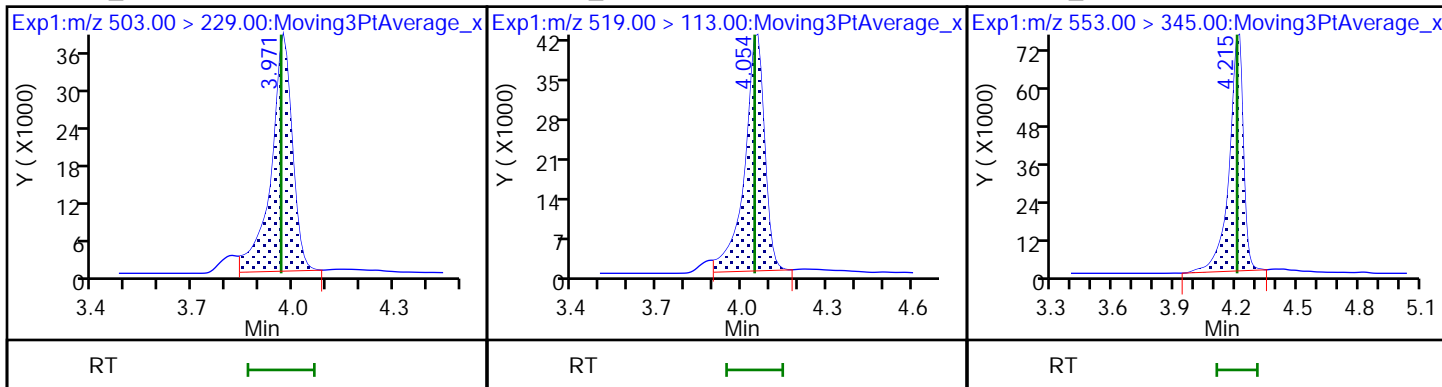
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

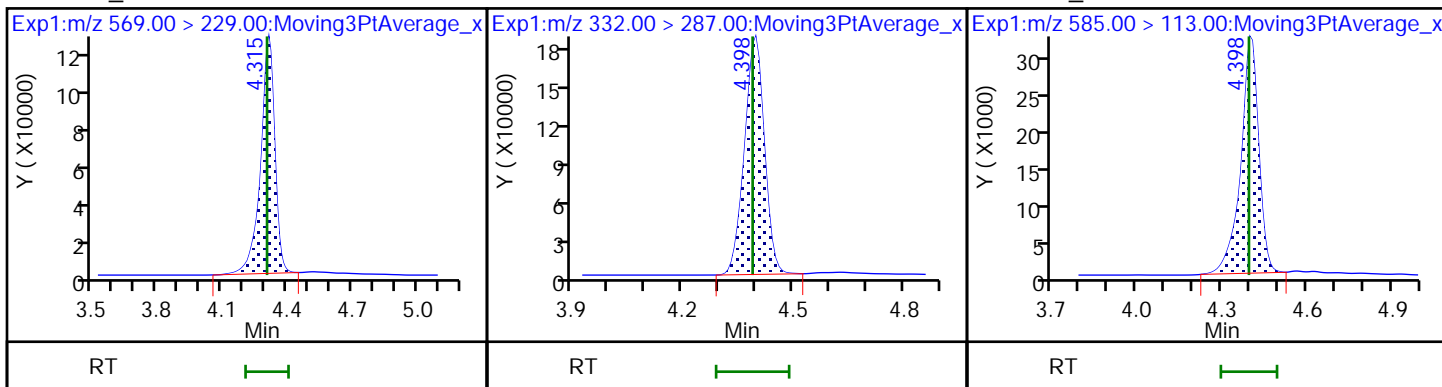
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

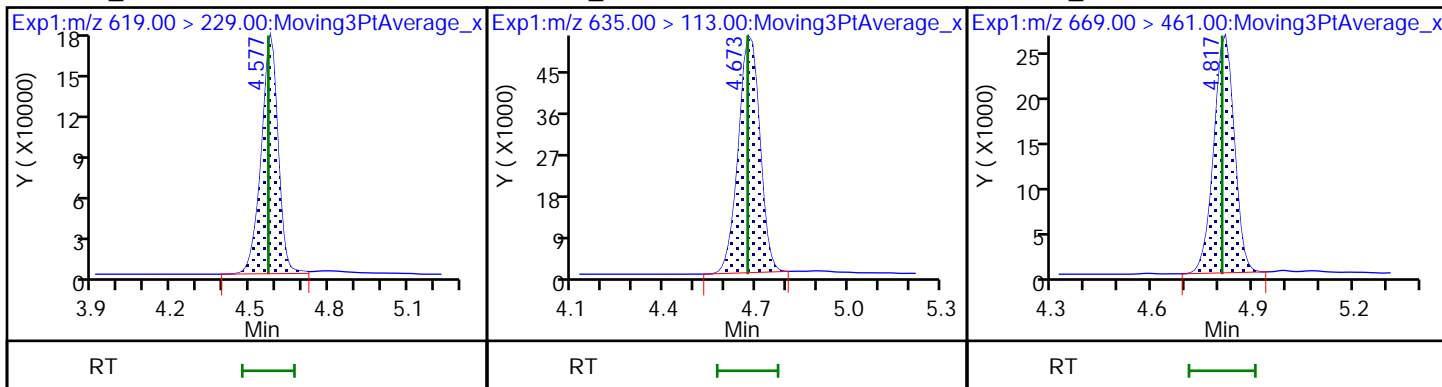
5 BFS_A4B



7 BFS_AB3

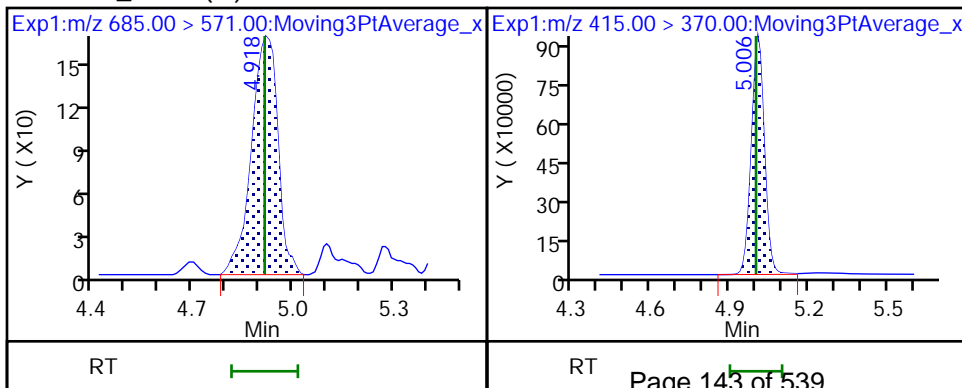
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

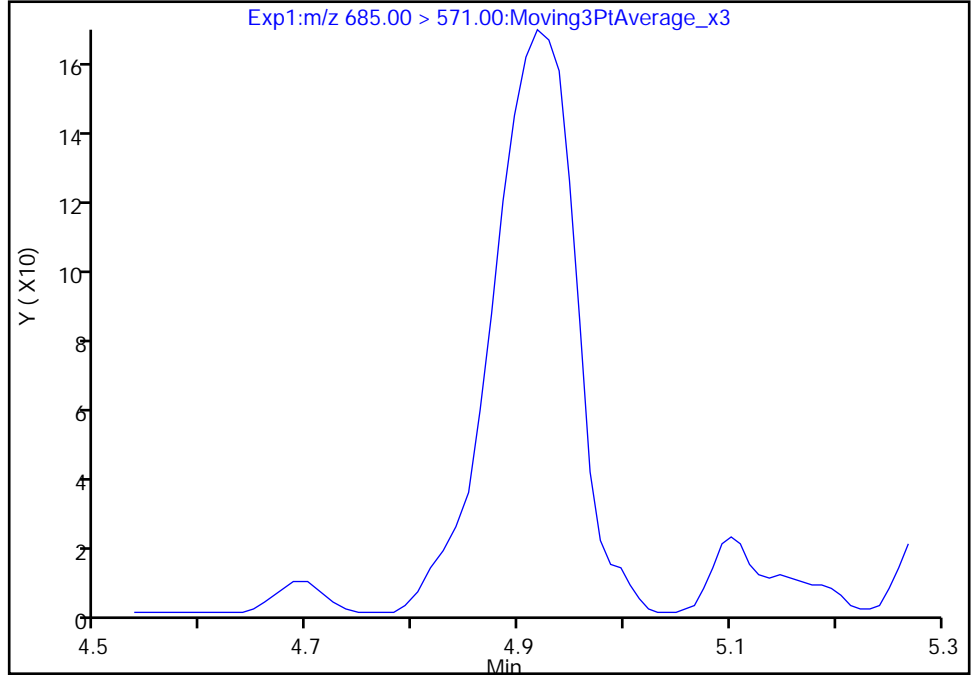
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-06.d
Injection Date: 09-Aug-2022 00:40:54 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

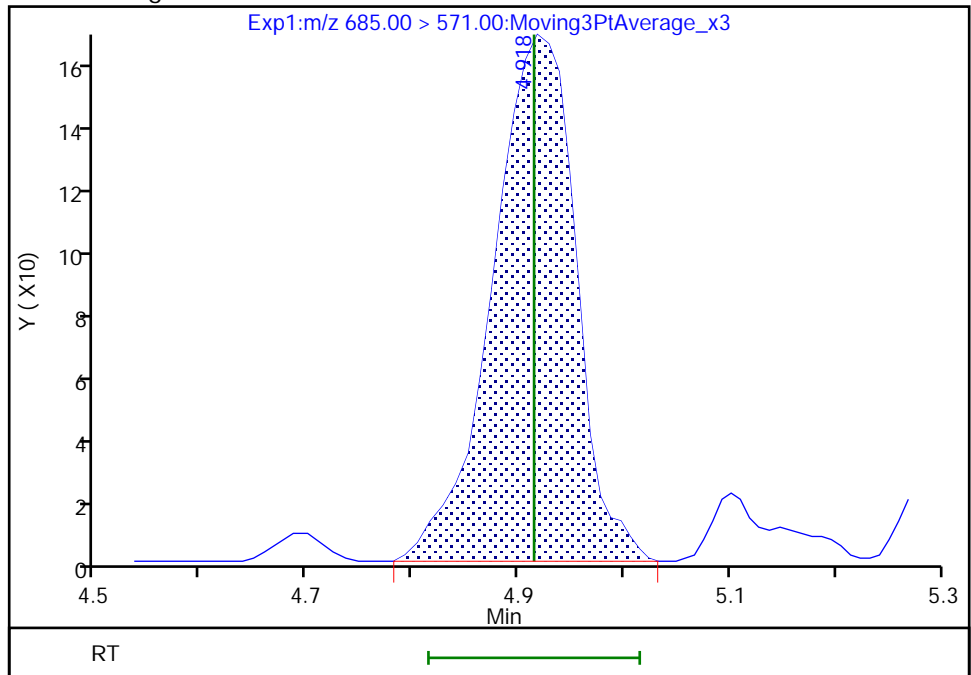
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.92
Area: 931
Amount: 0.155732
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 07:41:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 09-Aug-2022 00:53:32 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:47 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:38:06

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.970	3.964	0.006	0.903	326863	1.87	105	1519
2 BFS_A3B	519.00 > 113.00	4.053	4.044	0.009	0.922	420871	2.13	107	79.9
3 BFS_B3	553.00 > 345.00	4.213	4.203	0.010	0.958	744046	6.66	105	143 M
4 BFS_A2B2	569.00 > 229.00	4.313	4.306	0.007	0.981	1124117	14.9	107	138 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.396	4.390	0.006	0.878	663036	4.95	99.1	279
5 BFS_A4B	585.00 > 113.00	4.396	4.395	0.001	1.000	289554	1.13	102	207
7 BFS_AB3	619.00 > 229.00	4.575	4.569	0.006	1.041	1576044	15.6	105	209
8 BFS_A3B2	635.00 > 113.00	4.671	4.671	0.0	1.063	497178	2.66	101	208
9 BFS_B4	669.00 > 461.00	4.816	4.807	0.009	1.095	219296	3.62	105	190
10 BFS_A2B3	685.00 > 571.00	4.917	4.915	0.002	1.119	1335	0.2309	88.1	25.7 Ma M
* 11 13C2 PFOA	415.00 > 370.00	5.005	4.998	0.007		3124126	5.00		345

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_STD_BFS5_00005

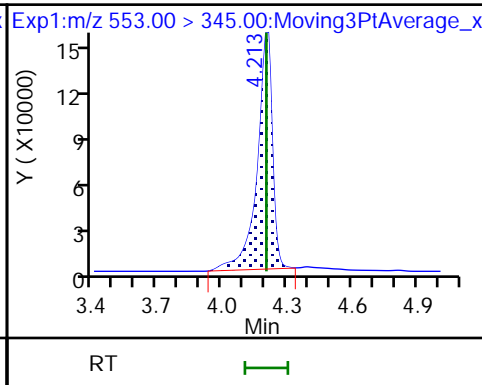
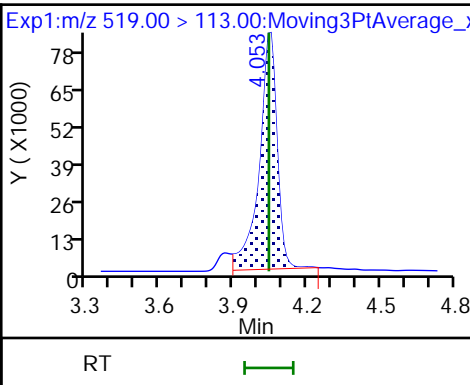
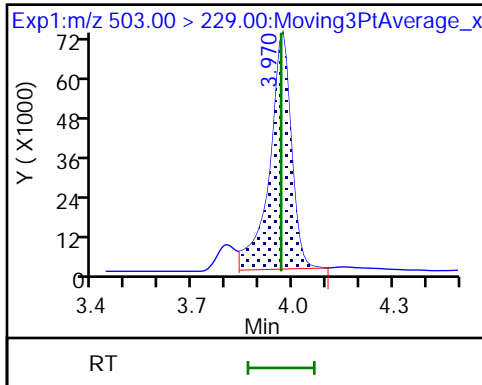
Amount Added: 200.00

Units: uL

1 BFS_AB2

2 BFS_A3B

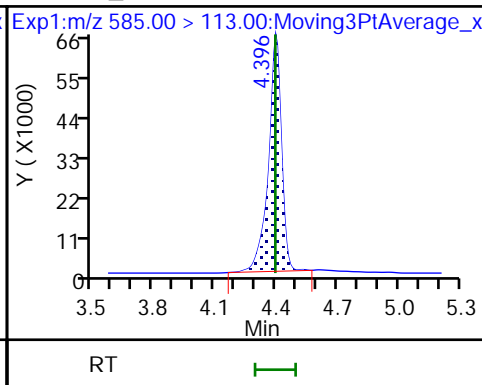
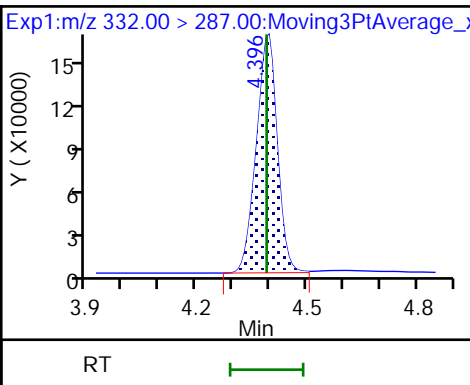
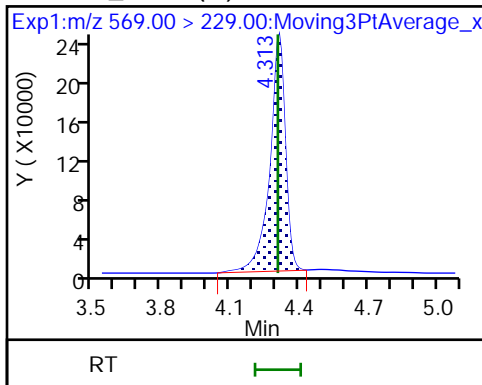
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

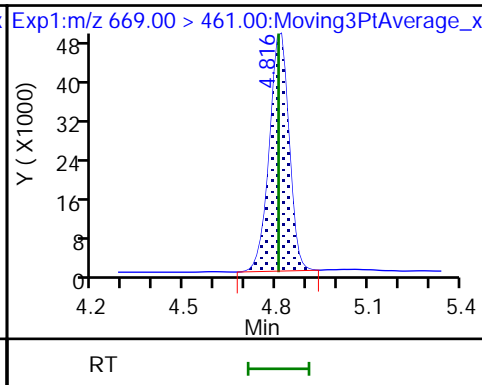
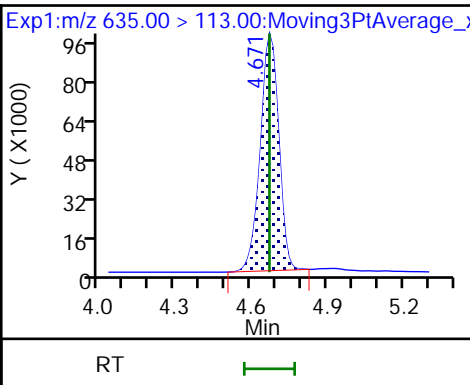
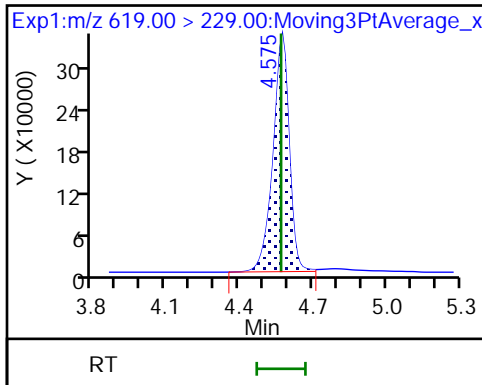
5 BFS_A4B



7 BFS_AB3

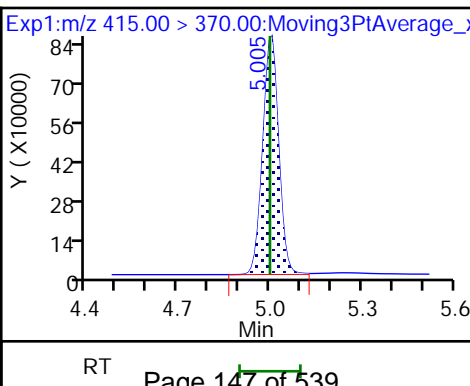
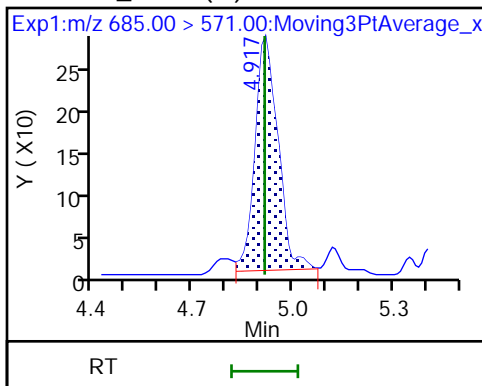
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

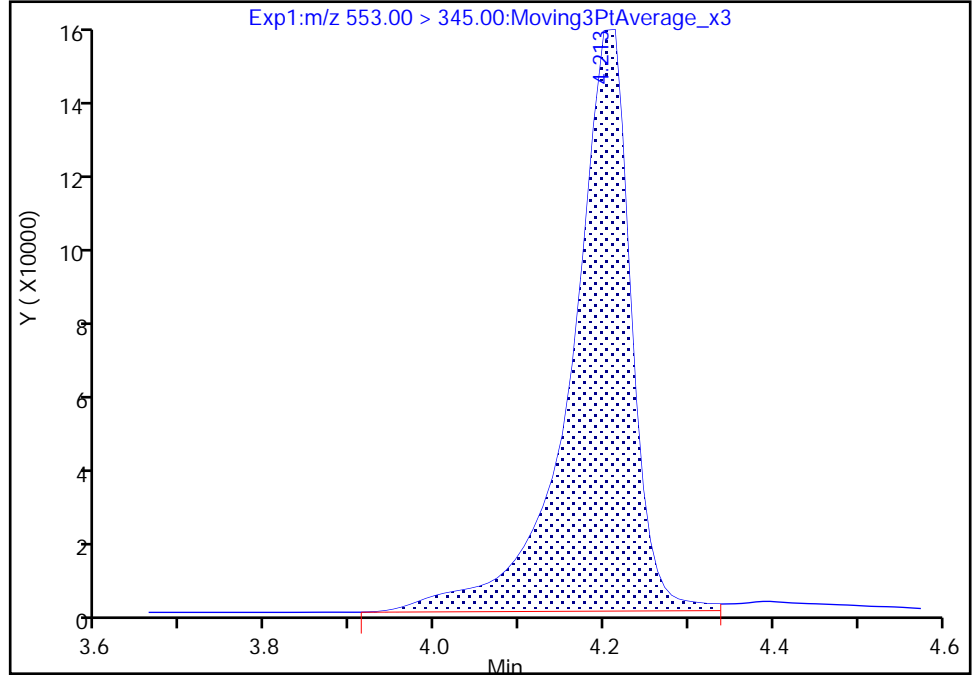
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

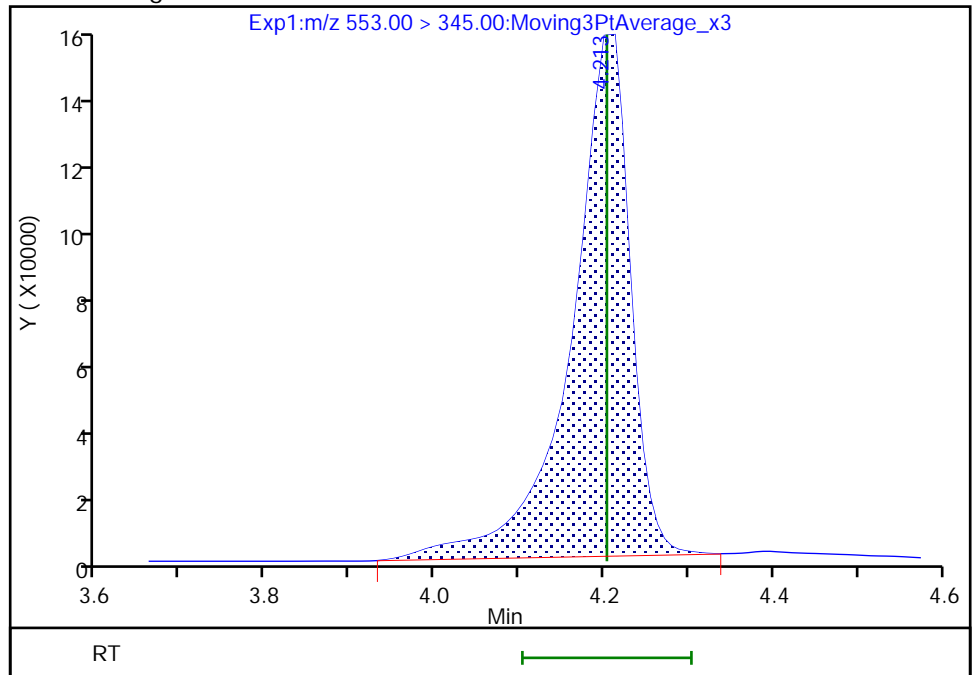
RT: 4.21
Area: 765231
Amount: 6.676323
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 744046
Amount: 6.656727
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:37:08
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

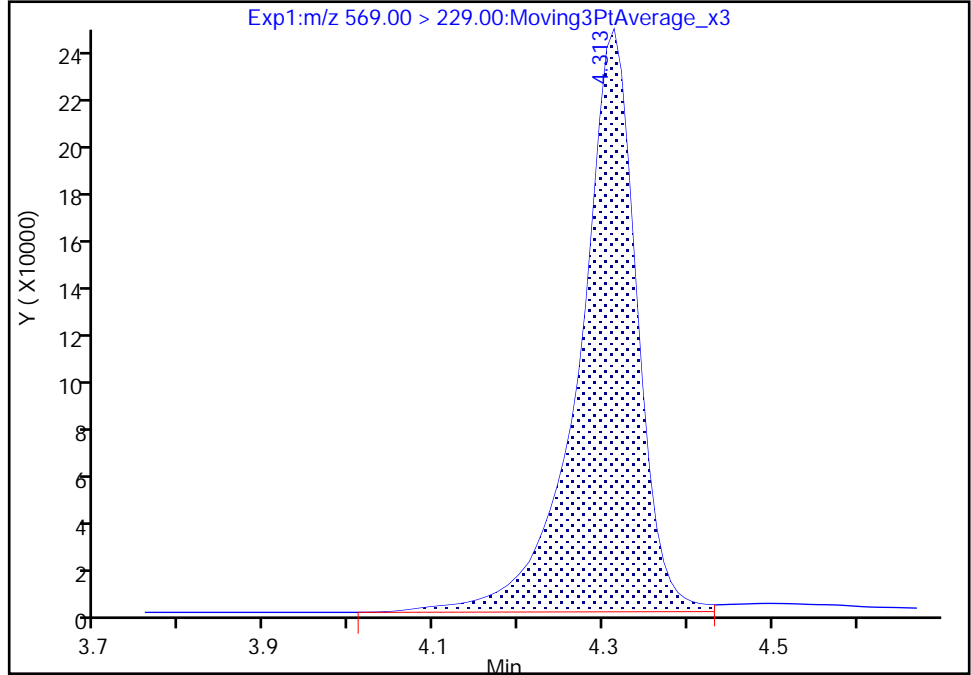
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

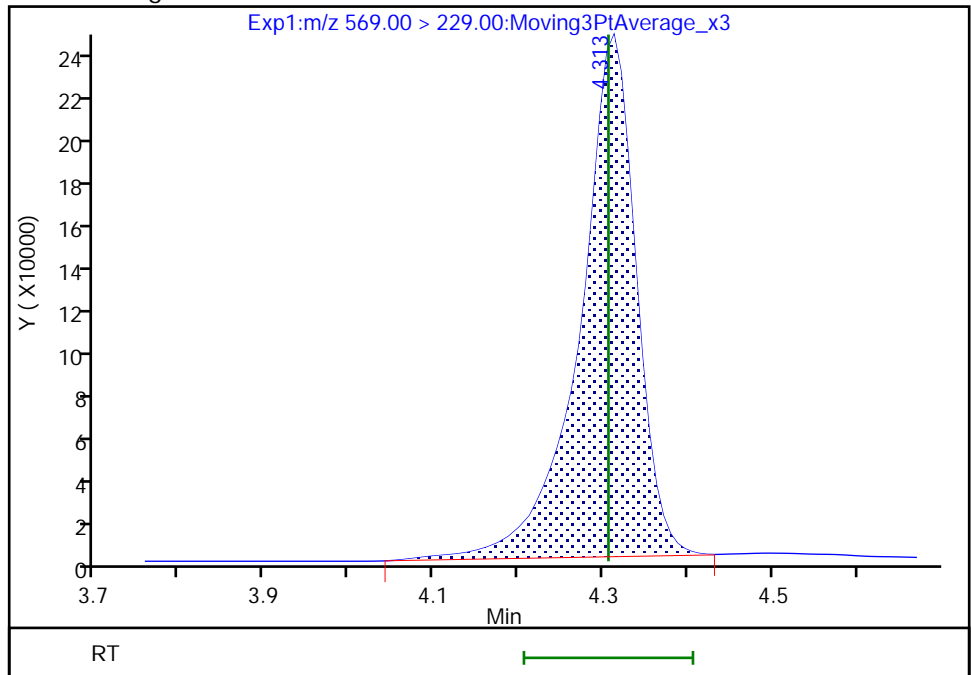
RT: 4.31
Area: 1156864
Amount: 14.946355
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 1124117
Amount: 14.909431
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:37:02
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

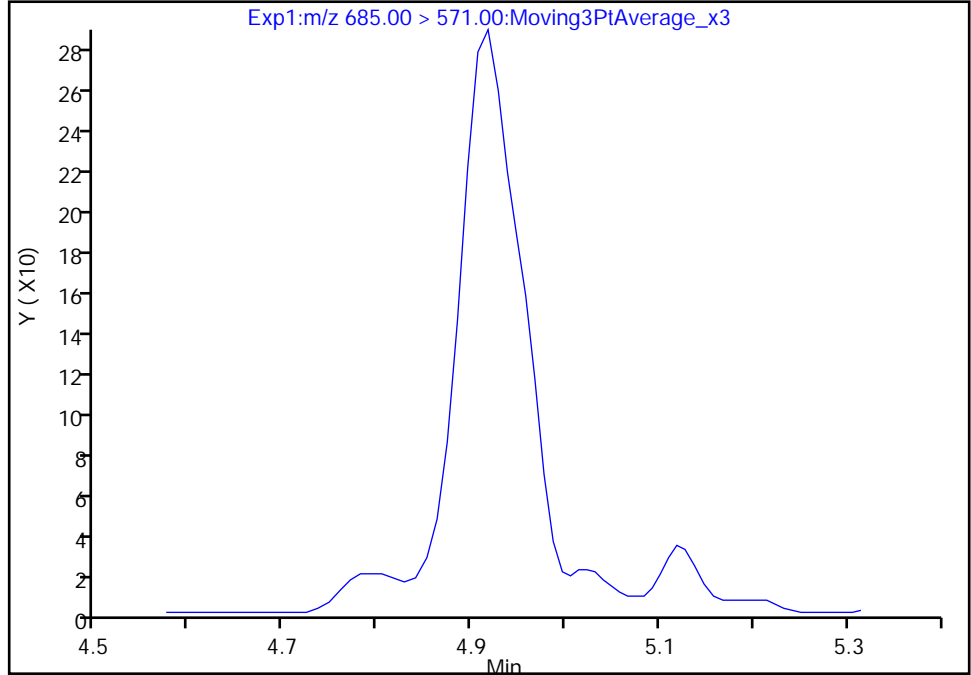
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-07.d
Injection Date: 09-Aug-2022 00:53:32 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

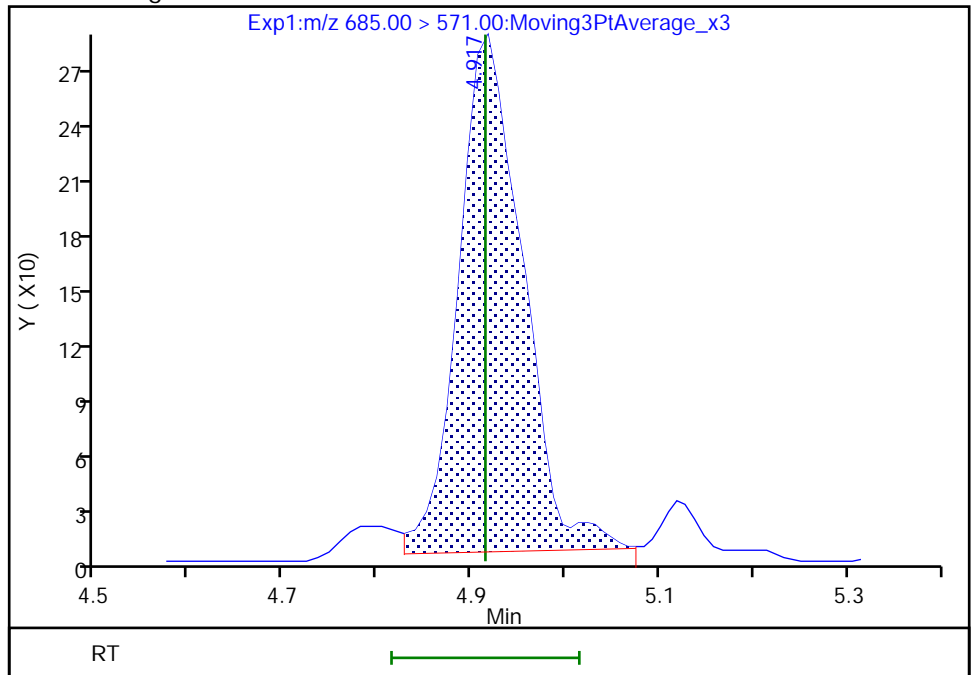
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.92
Area: 1335
Amount: 0.230887
Amount Units: ng/ml



Reviewer: JVK6, 09-Aug-2022 07:36:51
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Aug-2022 01:06:05 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:48 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:42:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.970	3.964	0.006	0.905	783975	4.65	104	2363
2 BFS_A3B	519.00 > 113.00	4.042	4.044	-0.002	0.921	999379	5.24	105	89.5
3 BFS_B3	553.00 > 345.00	4.200	4.203	-0.003	0.957	1707610	15.9	100	142 M
4 BFS_A2B2	569.00 > 229.00	4.304	4.306	-0.002	0.981	2714045	37.5	108	143
5 BFS_A4B	585.00 > 113.00	4.396	4.395	0.001	1.002	676057	2.73	99.3	191
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.390	-0.002	0.878	637015	4.79	95.8	278
7 BFS_AB3	619.00 > 229.00	4.564	4.569	-0.005	1.040	3689715	38.3	103	231
8 BFS_A3B2	635.00 > 113.00	4.671	4.671	0.0	1.065	1217047	6.77	103	203
9 BFS_B4	669.00 > 461.00	4.805	4.807	-0.002	1.095	509550	8.76	101	230
10 BFS_A2B3	685.00 > 571.00	4.908	4.915	-0.007	1.118	3417	0.6265	95.7	56.9
* 11 13C2 PFOA	415.00 > 370.00	4.998	4.998	0.0		3102433	5.00		343

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d

Injection Date: 09-Aug-2022 01:06:05

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

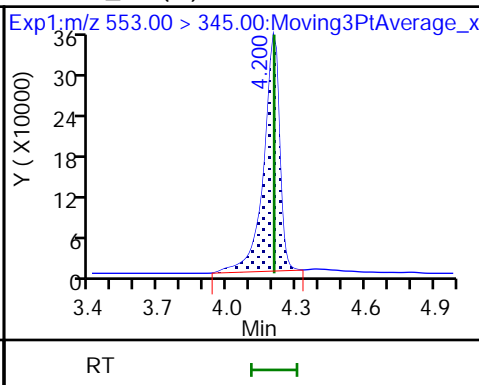
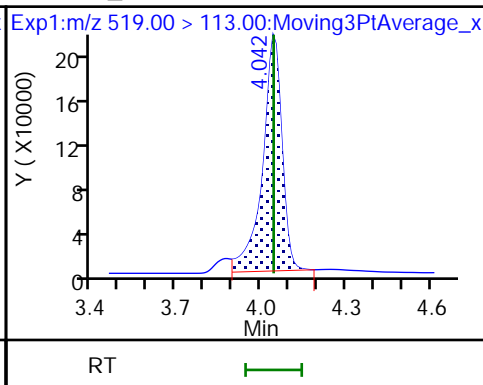
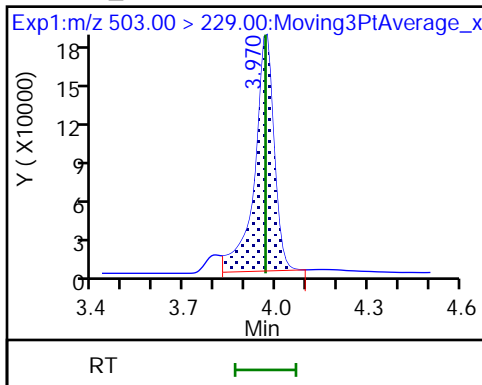
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

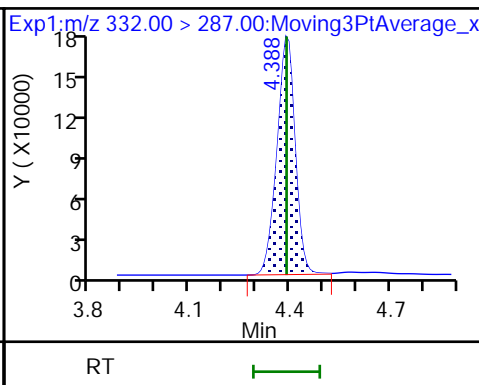
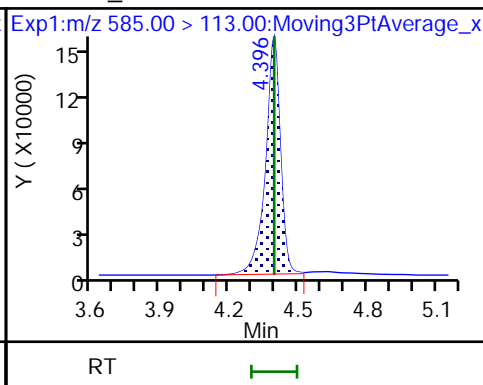
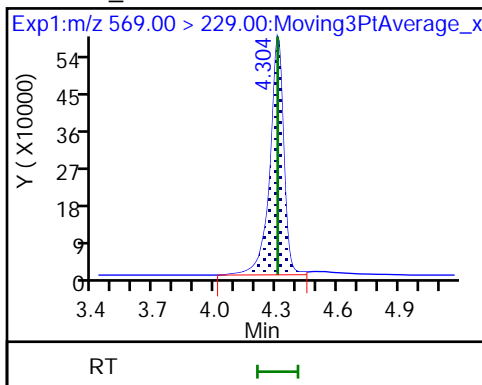
3 BFS_B3 (M)



4 BFS_A2B2

5 BFS_A4B

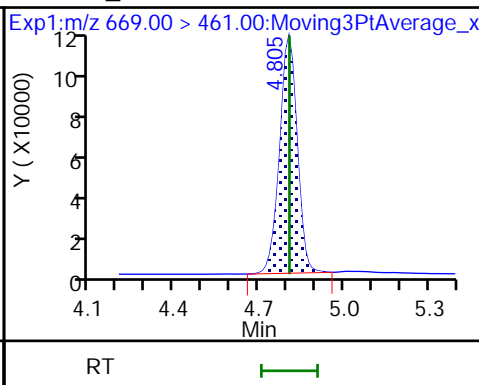
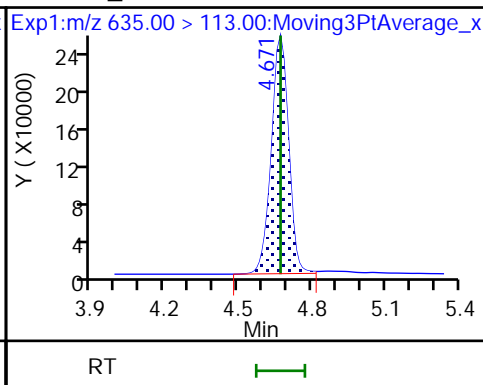
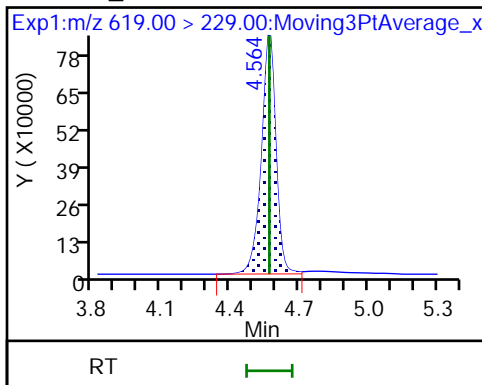
D 6 13C3 HFPO-DA



7 BFS_AB3

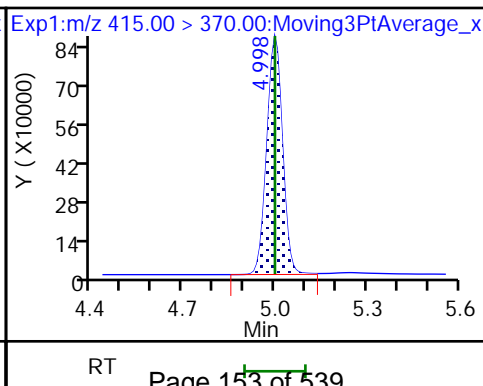
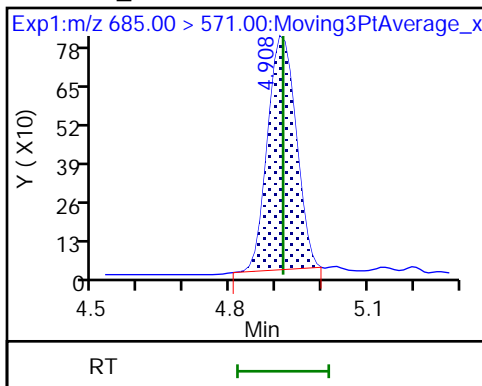
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

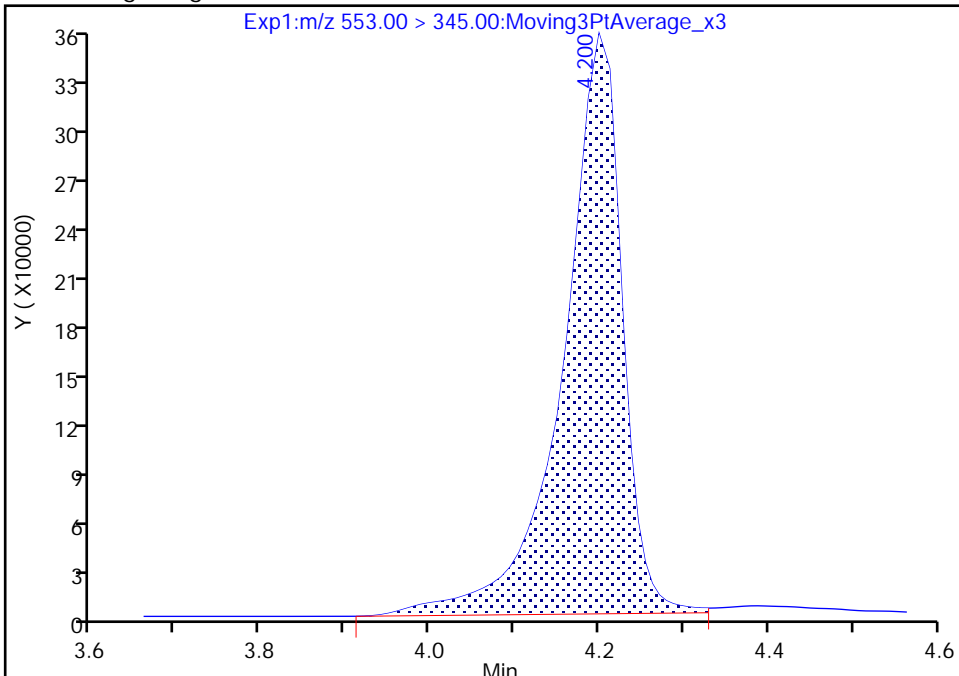
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-08.d
Injection Date: 09-Aug-2022 01:06:05 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

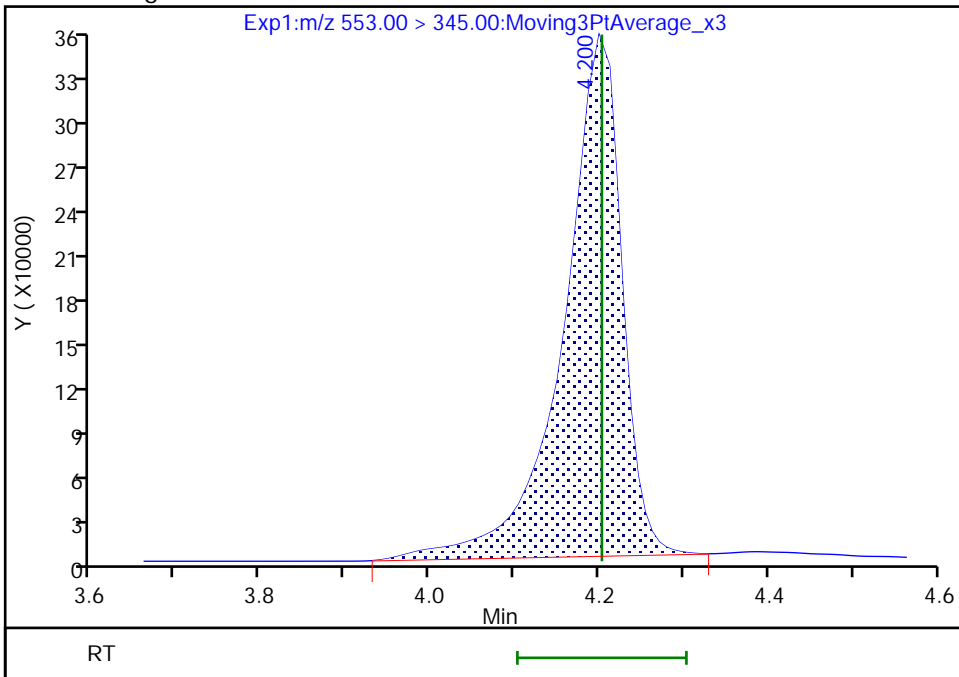
RT: 4.20
Area: 1739777
Amount: 15.750004
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 1707610
Amount: 15.856829
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:08
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Aug-2022 01:18:39 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:49 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:42:51

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.953	3.964	-0.011	0.902	1538103	8.80	98.8	1782	M
2 BFS_A3B									M
519.00 > 113.00	4.034	4.044	-0.010	0.921	1965503	9.90	99.5	65.2	M
3 BFS_B3									M
553.00 > 345.00	4.191	4.203	-0.012	0.956	3421113	30.8	97.1	100	M
4 BFS_A2B2									M
569.00 > 229.00	4.299	4.306	-0.007	0.981	5309692	71.3	103	167	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.383	4.390	-0.007	0.878	656951	5.13	103	280	
5 BFS_A4B									
585.00 > 113.00	4.383	4.395	-0.012	1.000	1379451	5.40	98.2	208	
7 BFS_AB3									
619.00 > 229.00	4.557	4.569	-0.012	1.040	7092409	71.9	96.6	171	
8 BFS_A3B2									
635.00 > 113.00	4.664	4.671	-0.007	1.064	2287806	12.4	94.4	185	
9 BFS_B4									
669.00 > 461.00	4.797	4.807	-0.010	1.094	1110166	18.5	107	261	
10 BFS_A2B3									M
685.00 > 571.00	4.911	4.915	-0.004	1.121	7278	1.30	99.1	121	M
* 11 13C2 PFOA									
415.00 > 370.00	4.990	4.998	-0.008		2990757	5.00		321	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d

Injection Date: 09-Aug-2022 01:18:39

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

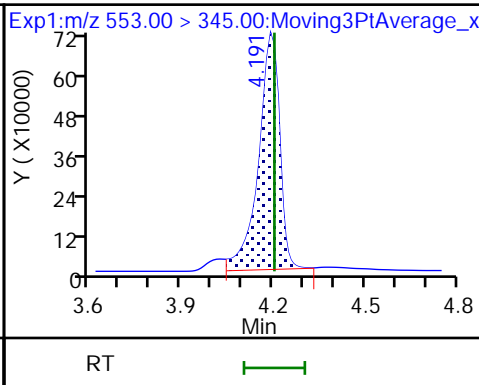
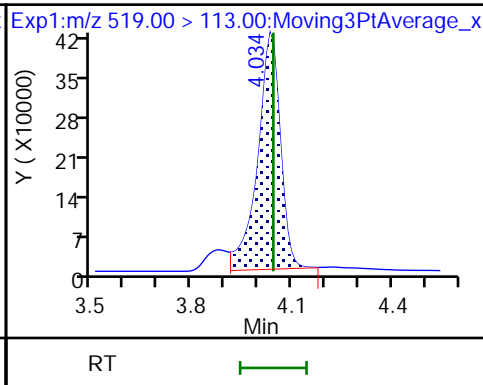
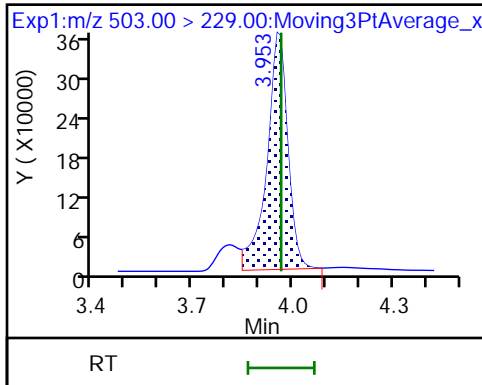
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

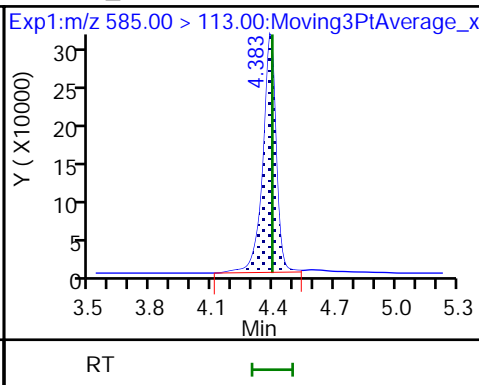
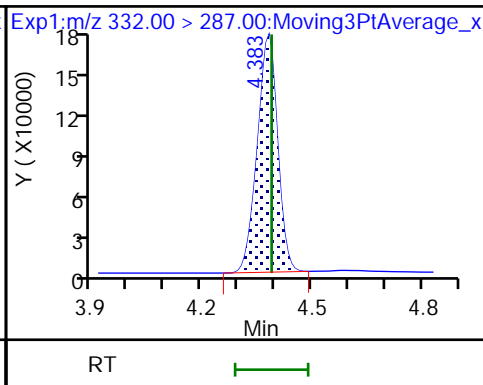
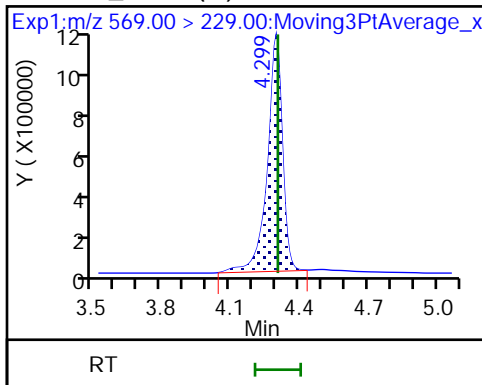
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

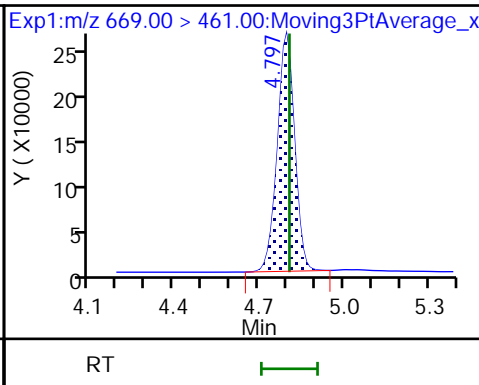
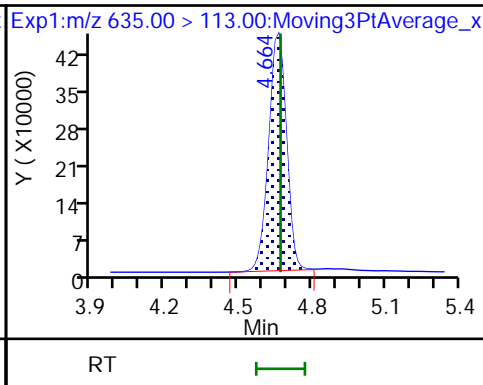
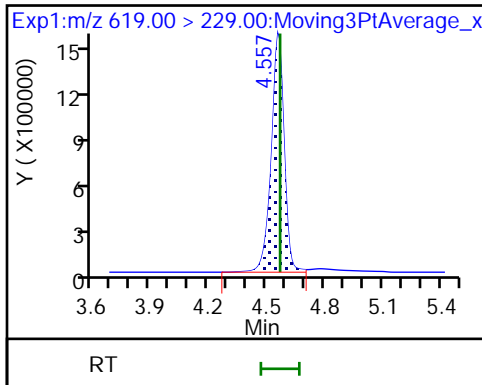
5 BFS_A4B



7 BFS_AB3

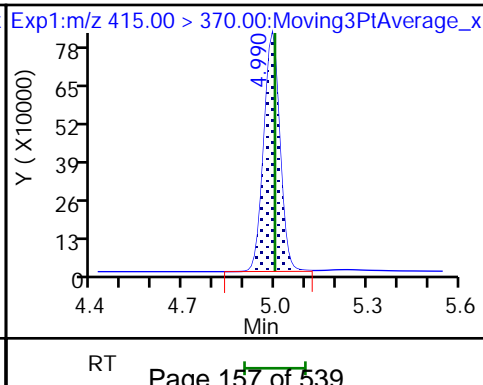
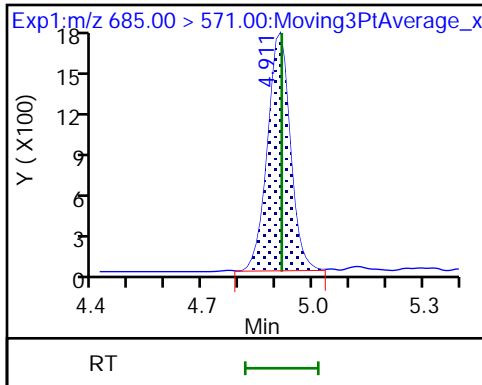
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



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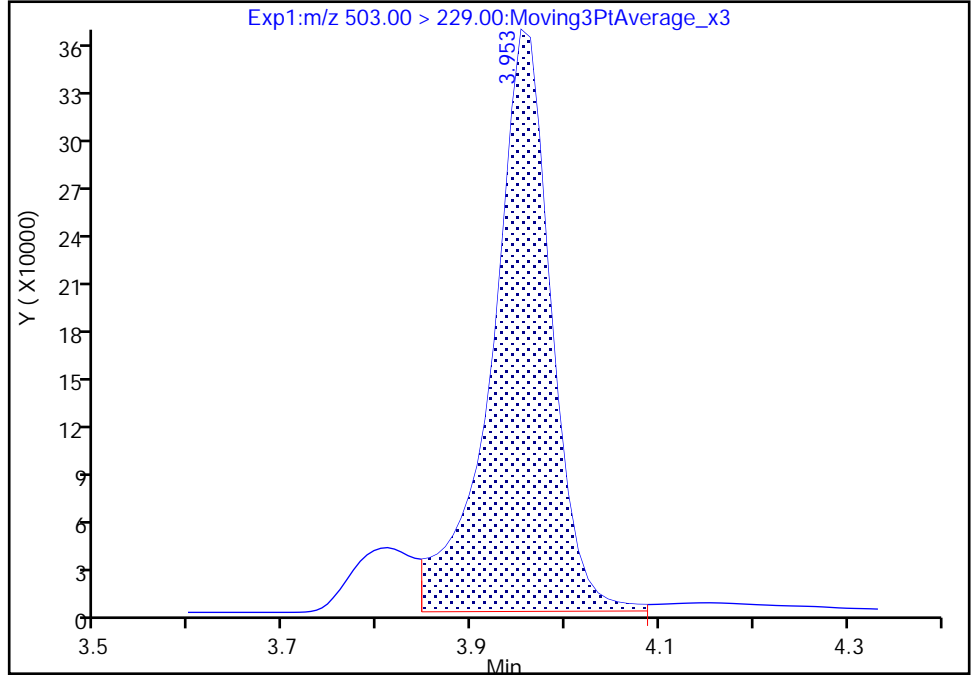
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

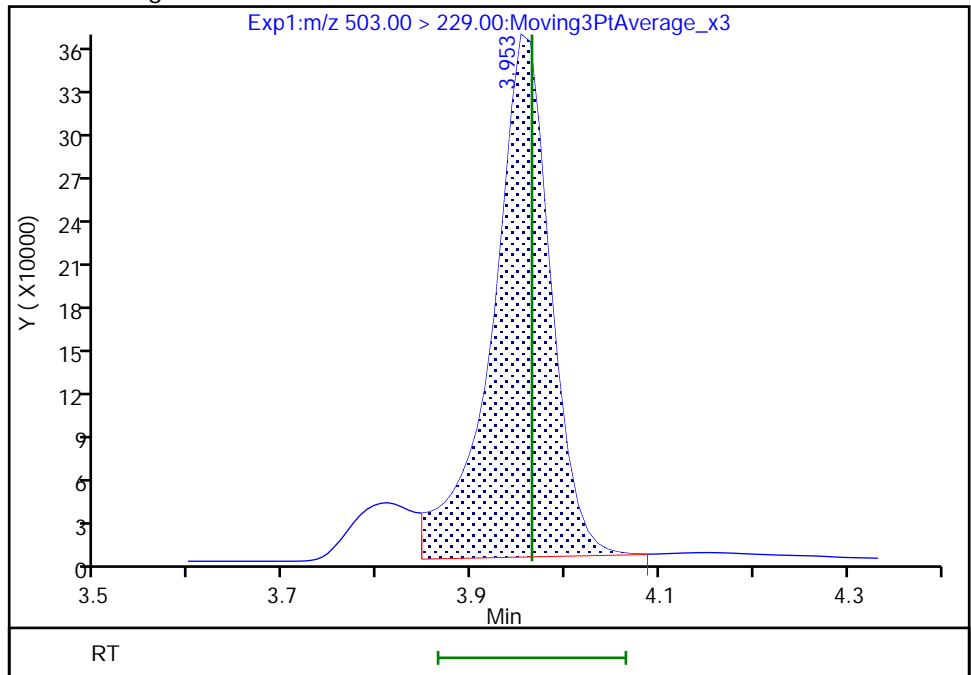
RT: 3.95
Area: 1572829
Amount: 8.190441
Amount Units: ng/ml

Processing Integration Results



RT: 3.95
Area: 1538103
Amount: 8.798755
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:27
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

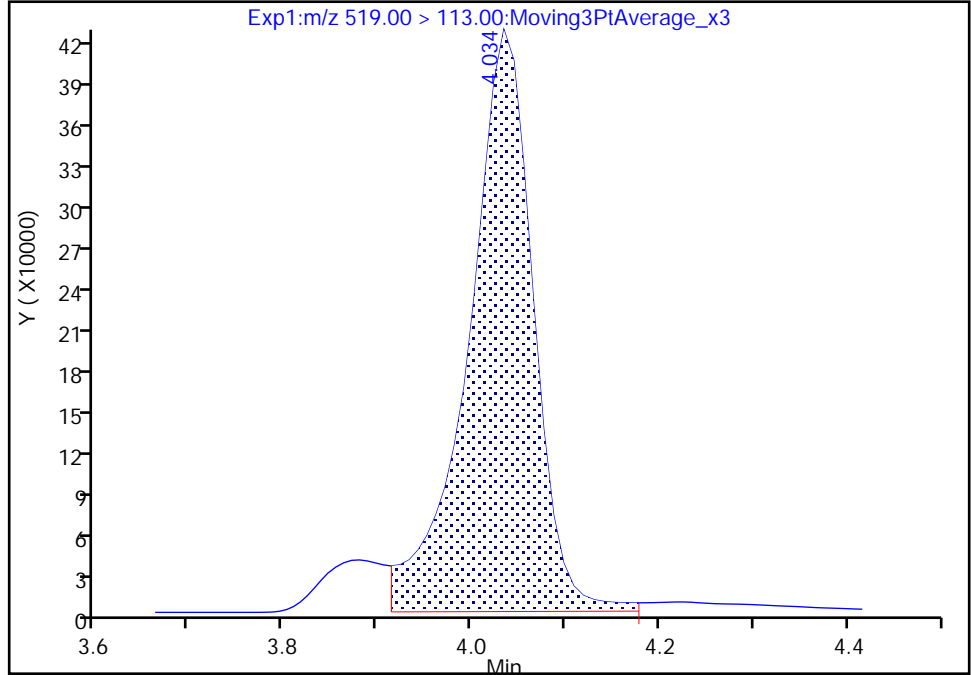
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

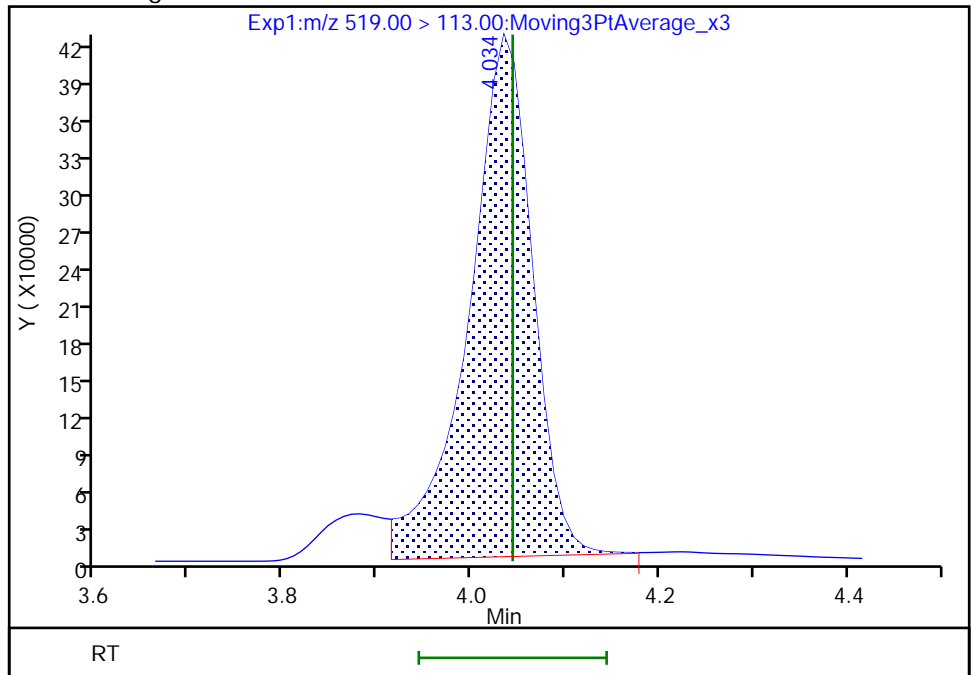
RT: 4.03
Area: 2016614
Amount: 10.037480
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 1965503
Amount: 9.904746
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:31
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

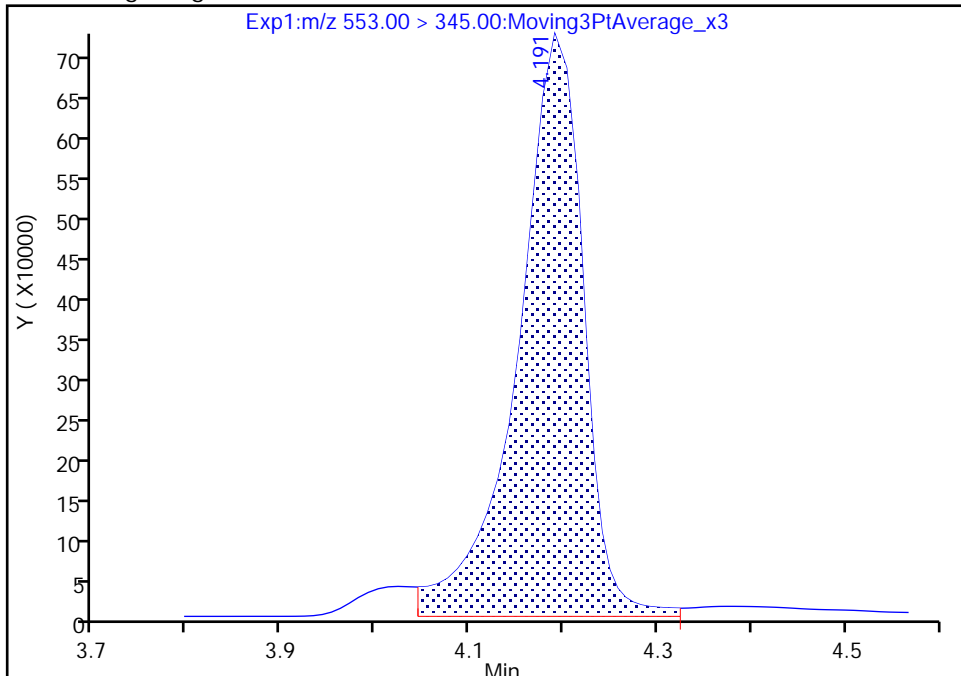
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

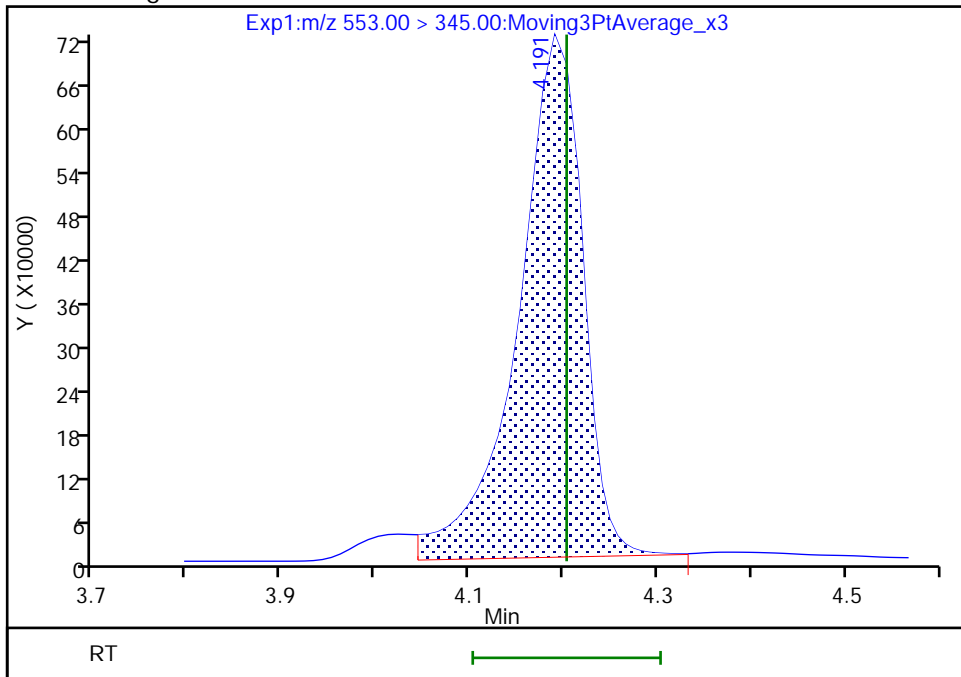
RT: 4.19
Area: 3509754
Amount: 30.780236
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 3421113
Amount: 30.774032
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:35
Audit Action: Manually Integrated

Audit Reason: Baseline
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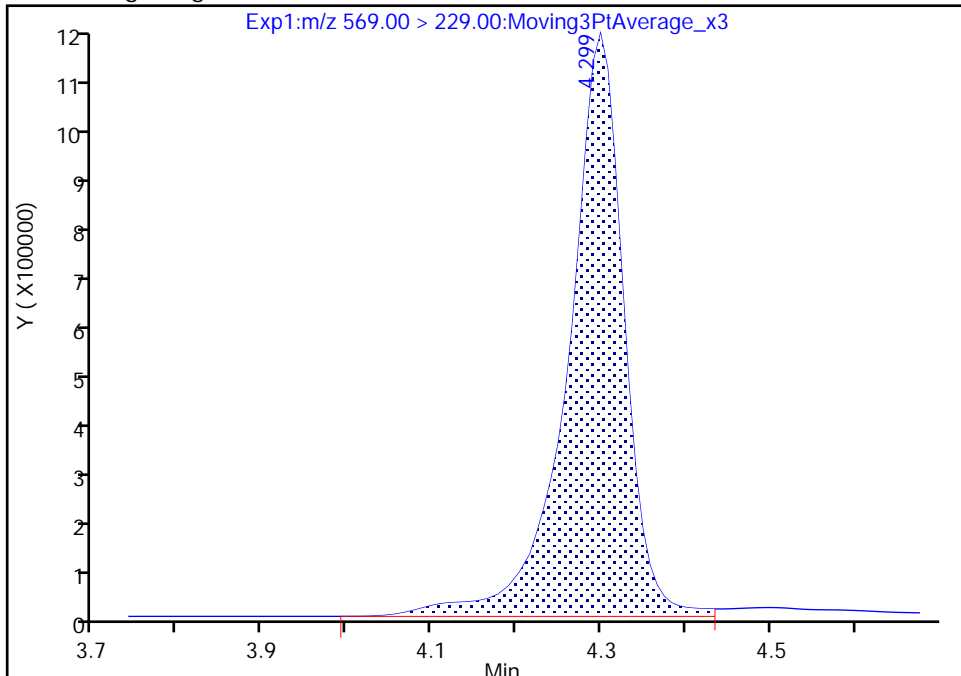
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

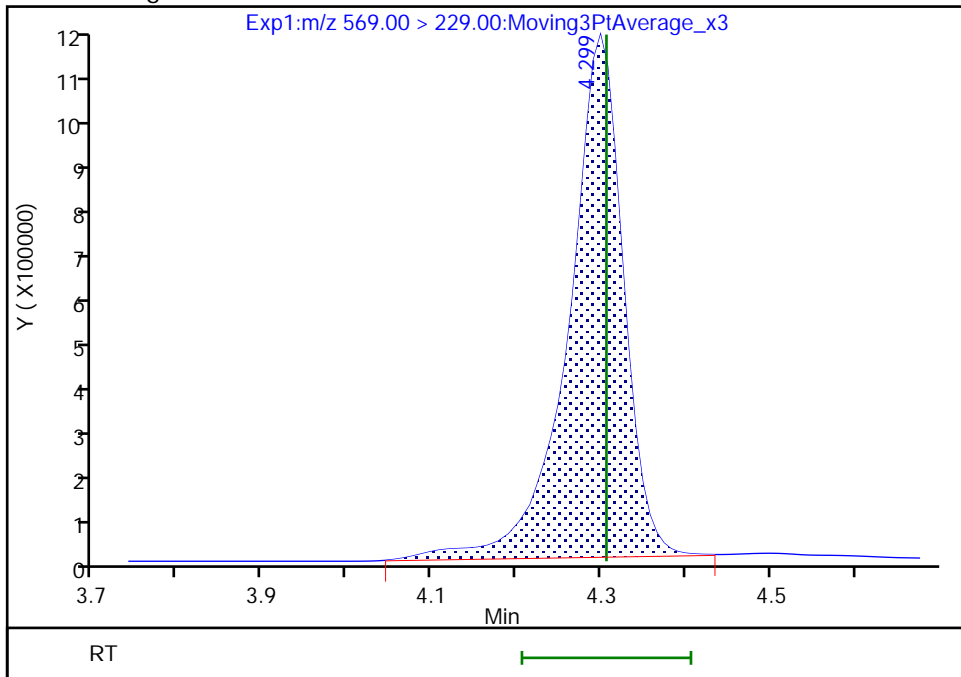
RT: 4.30
Area: 5475756
Amount: 71.450209
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 5309692
Amount: 71.280718
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:41
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

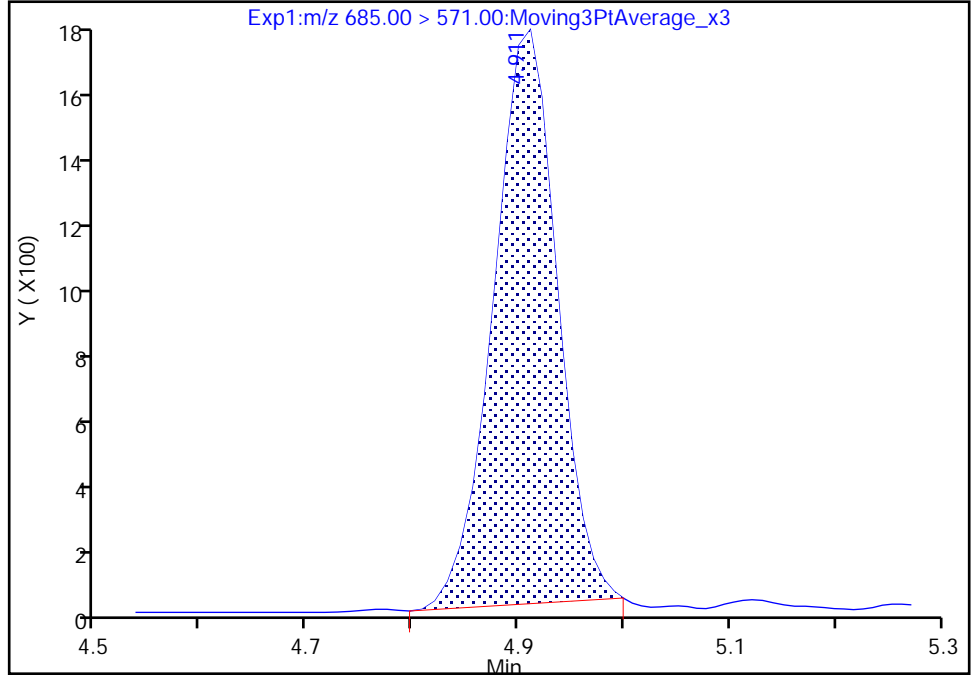
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-09.d
Injection Date: 09-Aug-2022 01:18:39 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

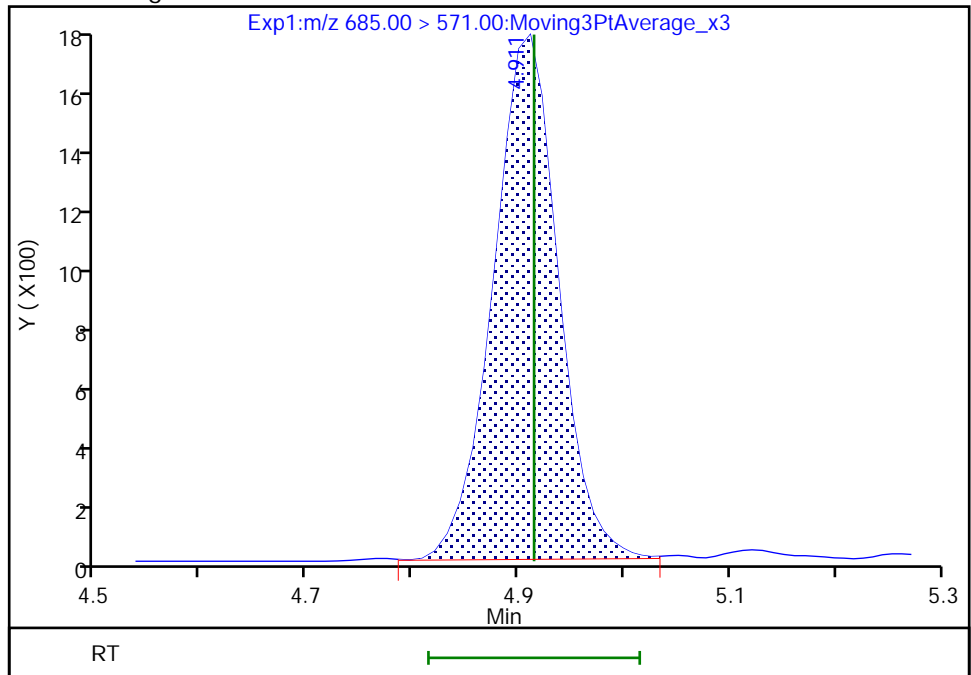
RT: 4.91
Area: 7038
Amount: 1.218941
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 7278
Amount: 1.297526
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:42:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 09-Aug-2022 01:31:14 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:50 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:43:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.964	-0.003	0.904	3198611	18.6	104	2144	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.044	0.0	0.923	4085759	20.8	104	76.3	M
3 BFS_B3									
553.00 > 345.00	4.202	4.203	-0.001	0.959	7003349	64.8	102	134	
4 BFS_A2B2									
569.00 > 229.00	4.298	4.306	-0.008	0.981	10710611	148.0	107	150	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.381	4.390	-0.009	0.877	638673	5.06	101	289	
5 BFS_A4B									
585.00 > 113.00	4.390	4.395	-0.005	1.002	2740234	11.0	100	184	
7 BFS_AB3									
619.00 > 229.00	4.566	4.569	-0.003	1.042	13833158	146.7	98.6	190	
8 BFS_A3B2									
635.00 > 113.00	4.659	4.671	-0.012	1.063	4923751	27.5	105	202	
9 BFS_B4									
669.00 > 461.00	4.804	4.807	-0.003	1.097	2066265	35.5	103	239	
10 BFS_A2B3									
685.00 > 571.00	4.907	4.915	-0.008	1.120	14370	2.63	100	127	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.001		2945364	5.00		325	

QC Flag Legend

Processing Flags

Review Flags

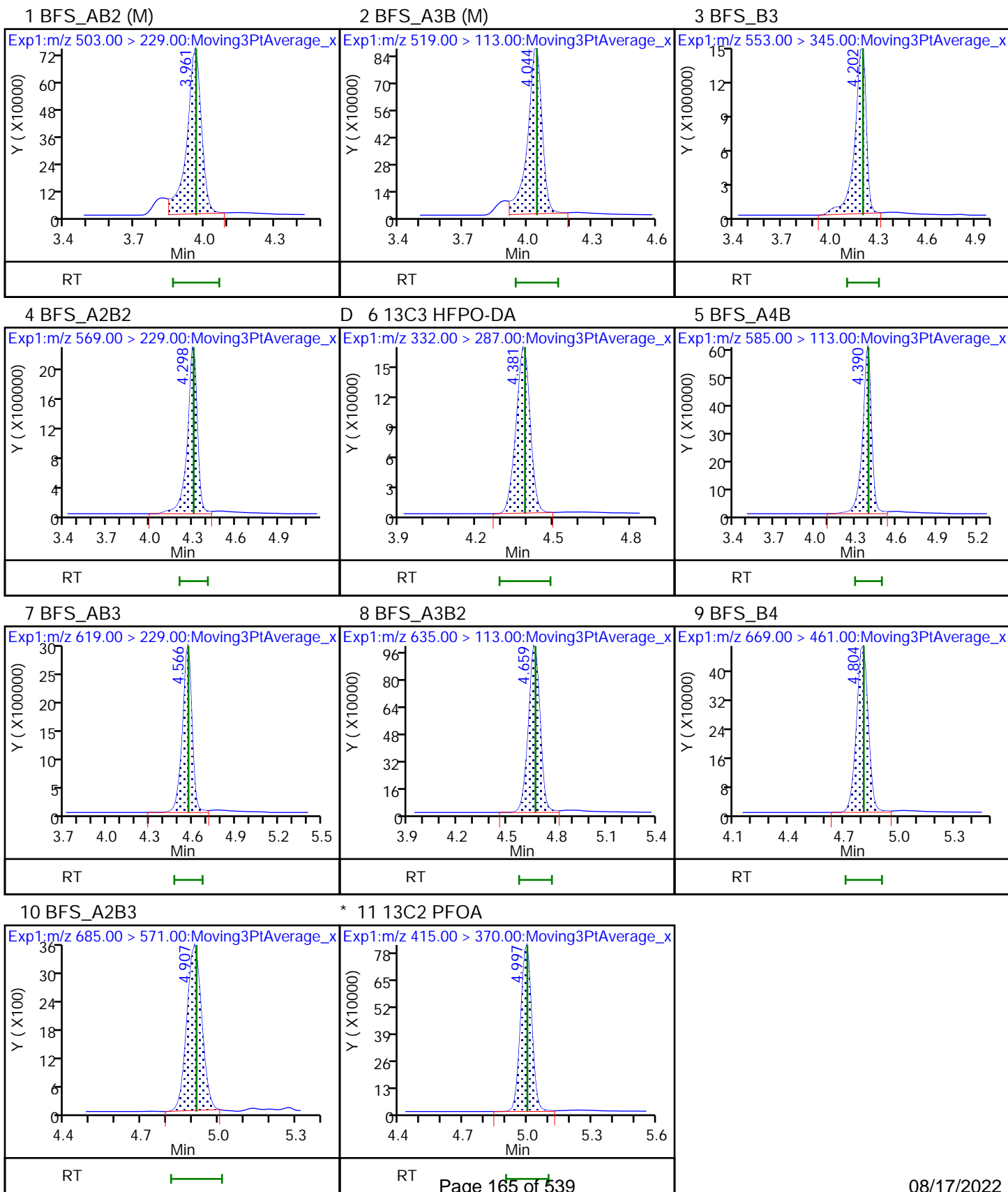
M - Manually Integrated

Reagents:

PFC_STD_BFS8_00004

Amount Added: 200.00

Units: uL



Eurofins Lancaster Laboratories Environment Testing, LLC

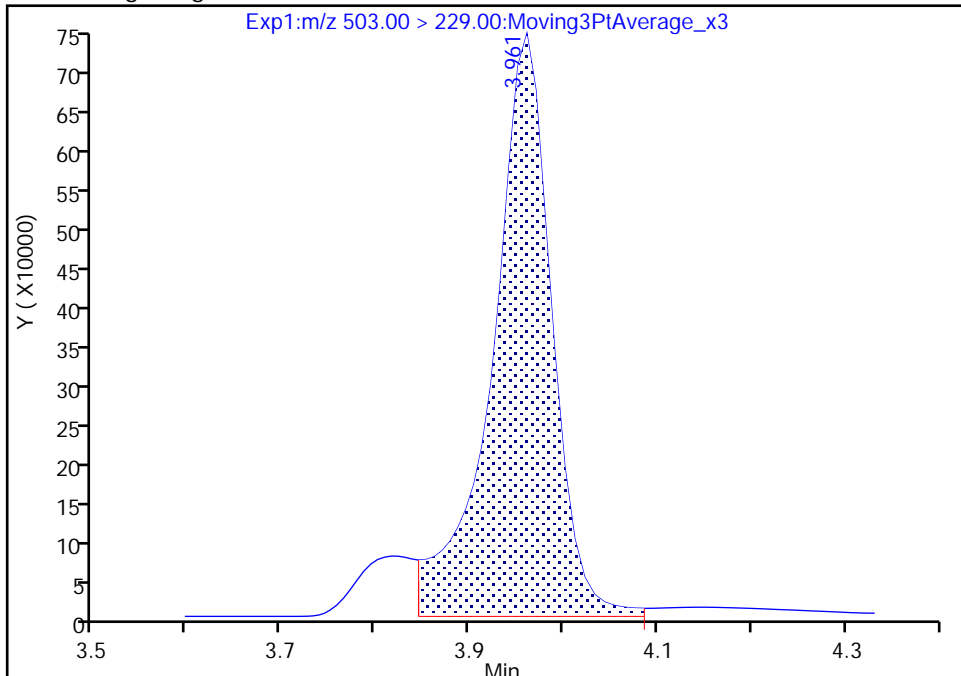
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
Injection Date: 09-Aug-2022 01:31:14 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

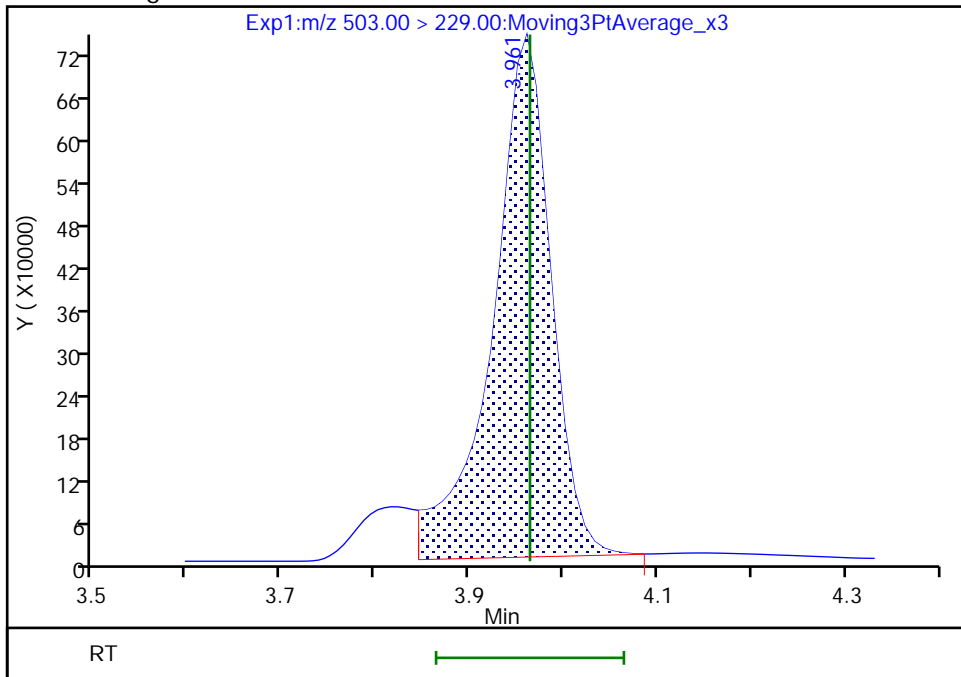
RT: 3.96
Area: 3286577
Amount: 17.598711
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 3198611
Amount: 18.572420
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:08
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

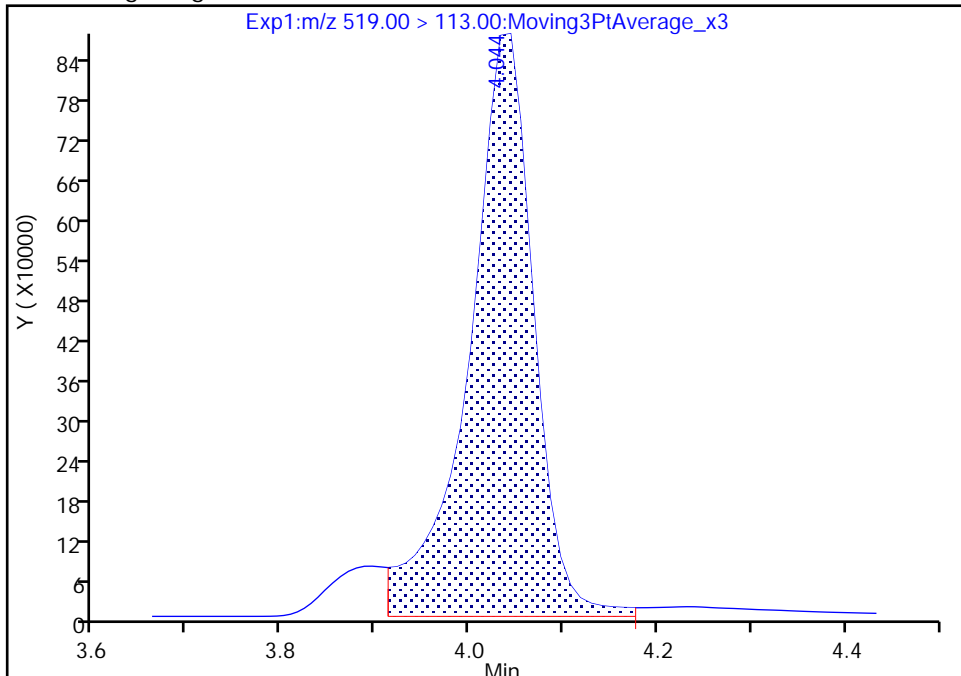
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-10.d
Injection Date: 09-Aug-2022 01:31:14 Instrument ID: 30733
Lims ID: IC CAL 8
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

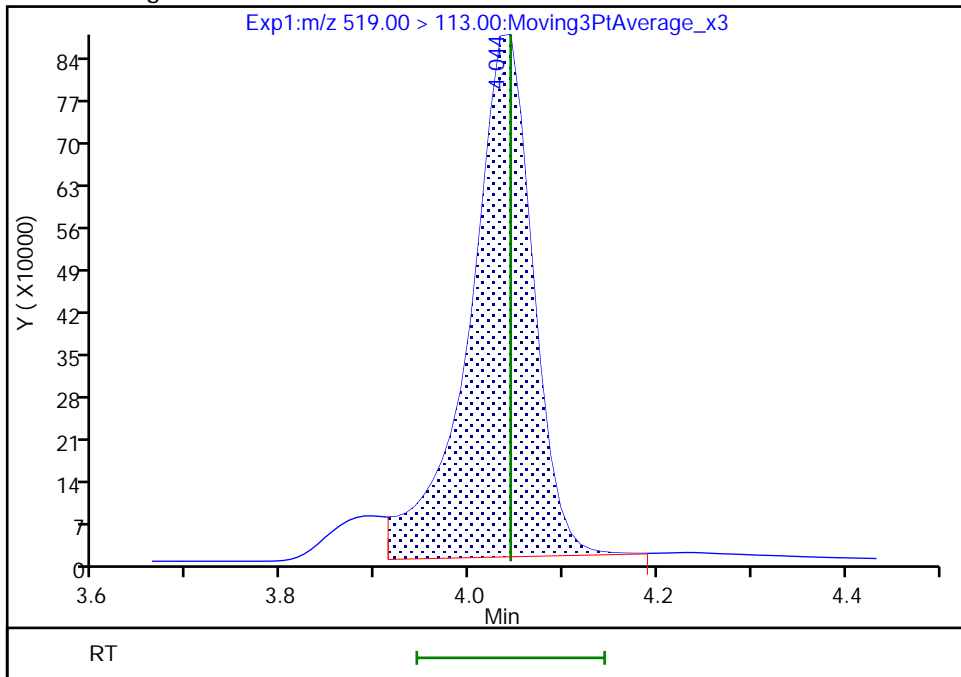
RT: 4.04
Area: 4202662
Amount: 21.098834
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 4085759
Amount: 20.795326
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:04
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 09-Aug-2022 01:43:48 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:50 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:43:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.962	3.964	-0.002	0.904	5851103	35.1	98.7	1736	M
2 BFS_A3B									M
519.00 > 113.00	4.034	4.044	-0.010	0.921	7205025	37.7	94.8	59.0	M
3 BFS_B3									M
553.00 > 345.00	4.191	4.203	-0.012	0.956	12776032	124.9	98.5	142	M
4 BFS_A2B2									M
569.00 > 229.00	4.299	4.306	-0.007	0.981	18872981	275.8	99.3	171	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.383	4.390	-0.007	0.878	603912	4.91	98.3	281	
5 BFS_A4B									M
585.00 > 113.00	4.391	4.395	-0.004	1.002	5068364	21.6	98.1	207	M
7 BFS_AB3									
619.00 > 229.00	4.567	4.569	-0.002	1.042	24793733	287.2	96.5	167	
8 BFS_A3B2									
635.00 > 113.00	4.664	4.671	-0.007	1.064	8785418	52.5	100	182	
9 BFS_B4									
669.00 > 461.00	4.797	4.807	-0.010	1.095	3844514	69.8	101	229	
10 BFS_A2B3									M
685.00 > 571.00	4.911	4.915	-0.004	1.121	28574	5.45	104	169	M
* 11 13C2 PFOA									
415.00 > 370.00	4.990	4.998	-0.008		2868292	5.00		326	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS9_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d

Injection Date: 09-Aug-2022 01:43:48

Instrument ID: 30733

Lims ID: IC CAL 9

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

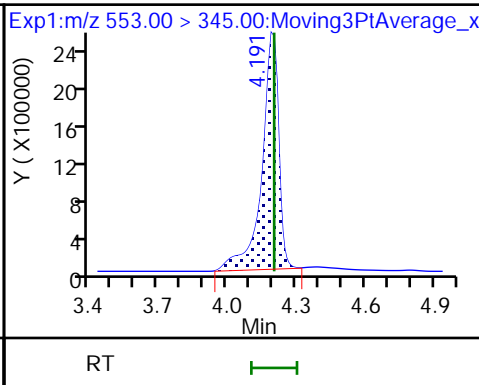
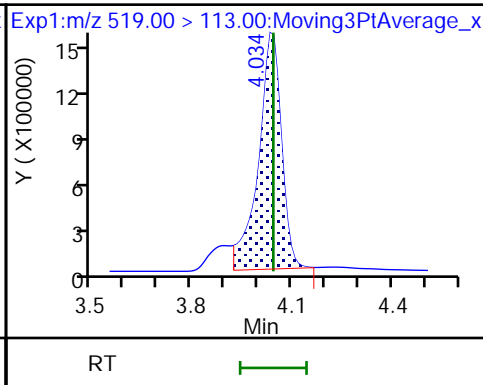
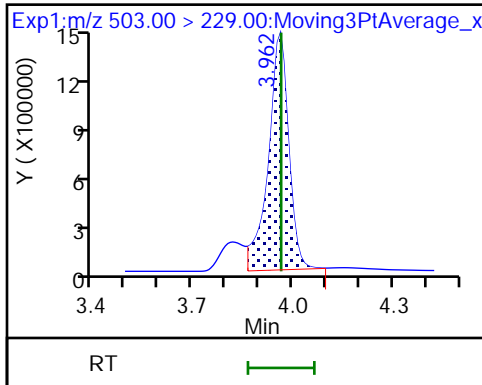
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

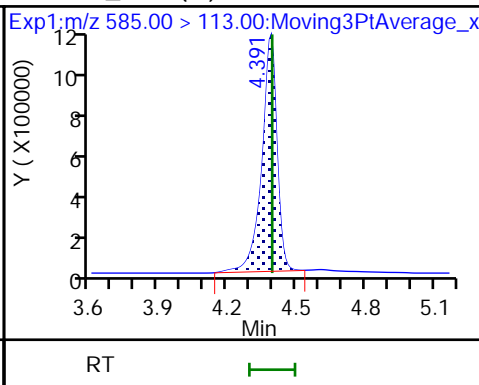
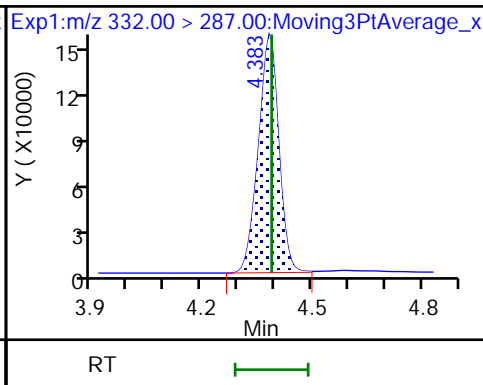
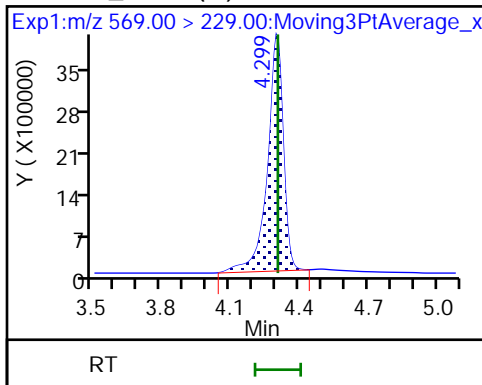
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

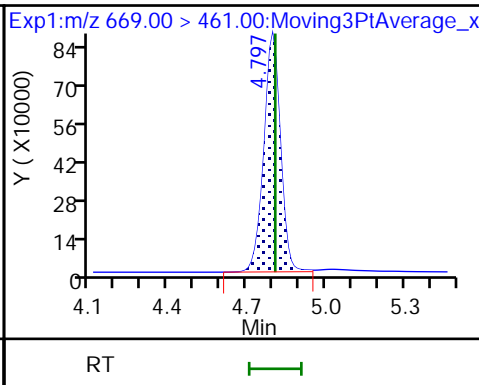
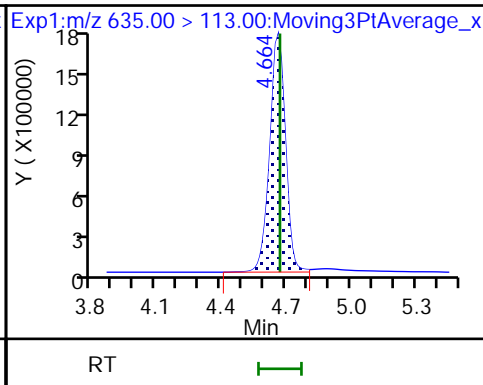
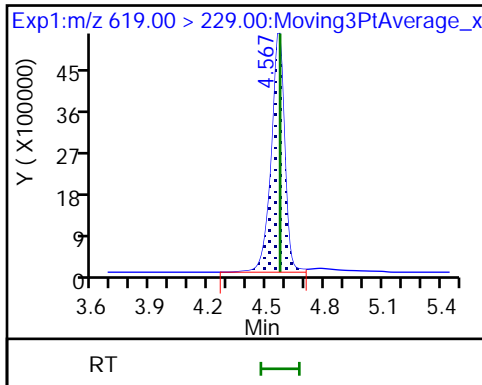
5 BFS_A4B (M)



7 BFS_AB3

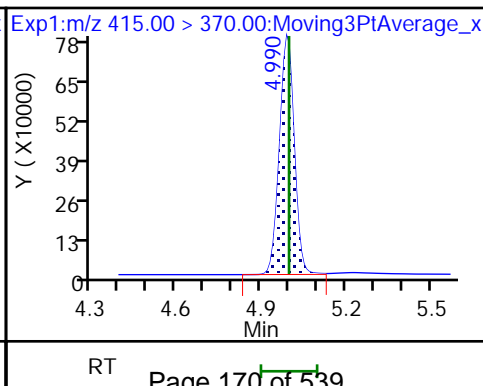
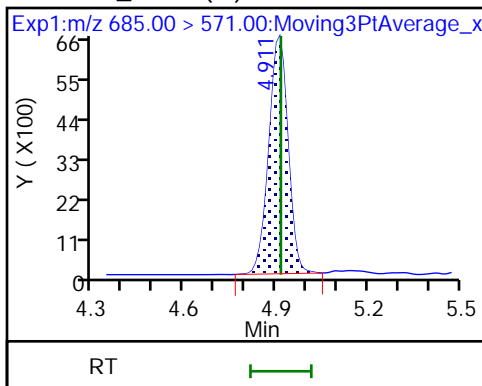
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

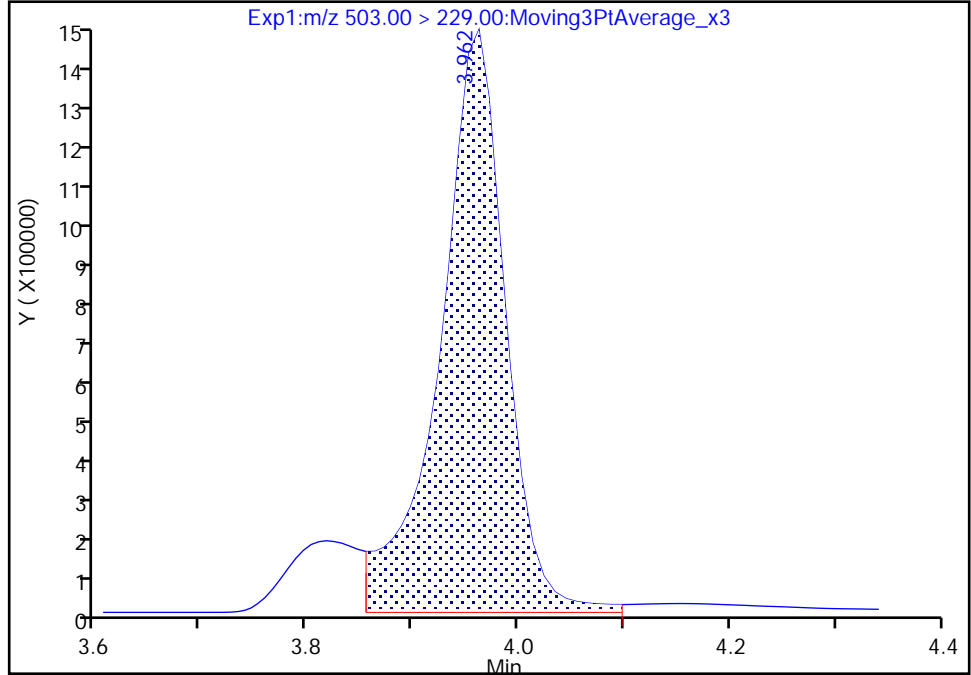
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

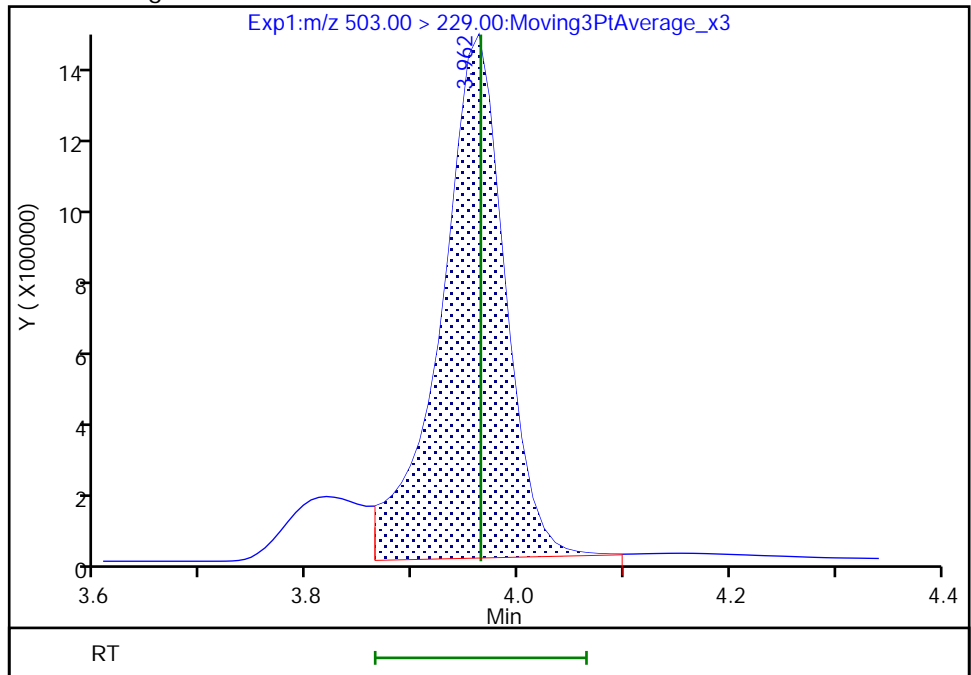
RT: 3.96
Area: 6062025
Amount: 34.409204
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 5851103
Amount: 35.145667
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:29
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

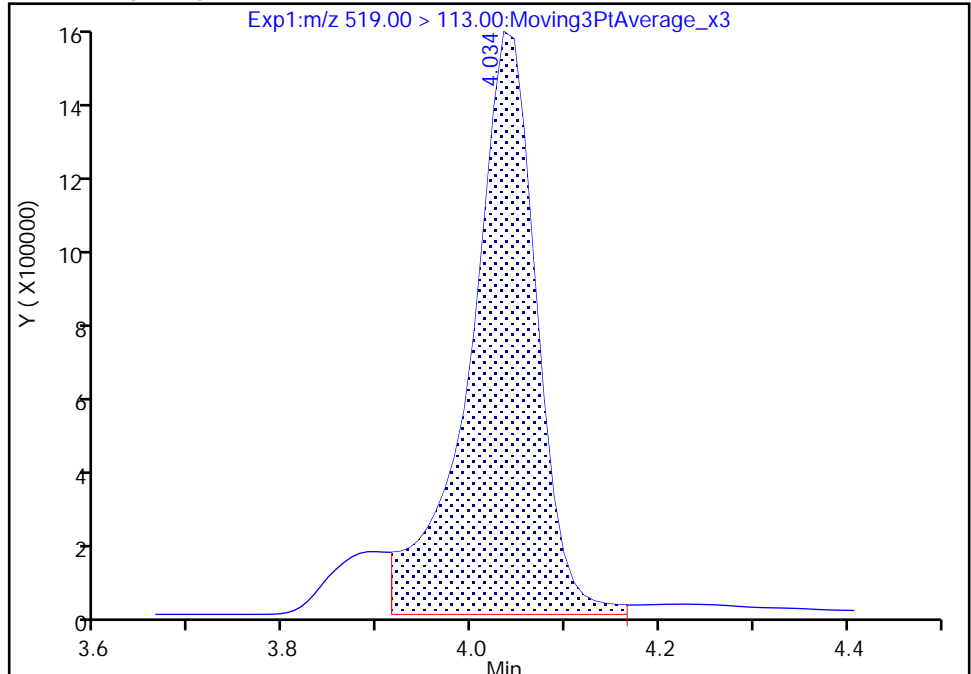
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

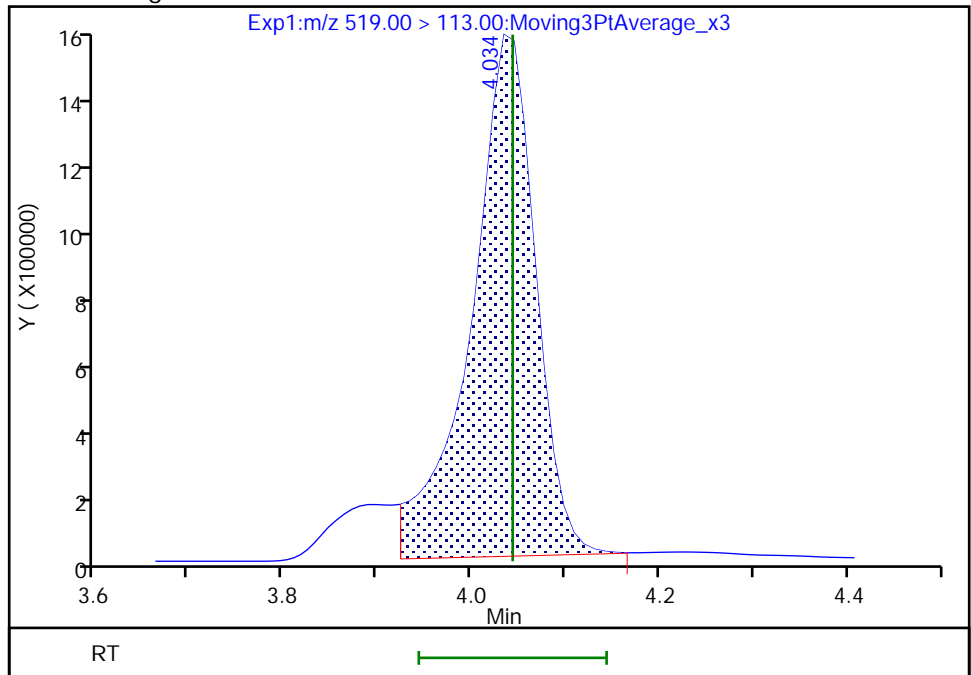
RT: 4.03
Area: 7512577
Amount: 38.624658
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 7205025
Amount: 37.730255
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:33
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

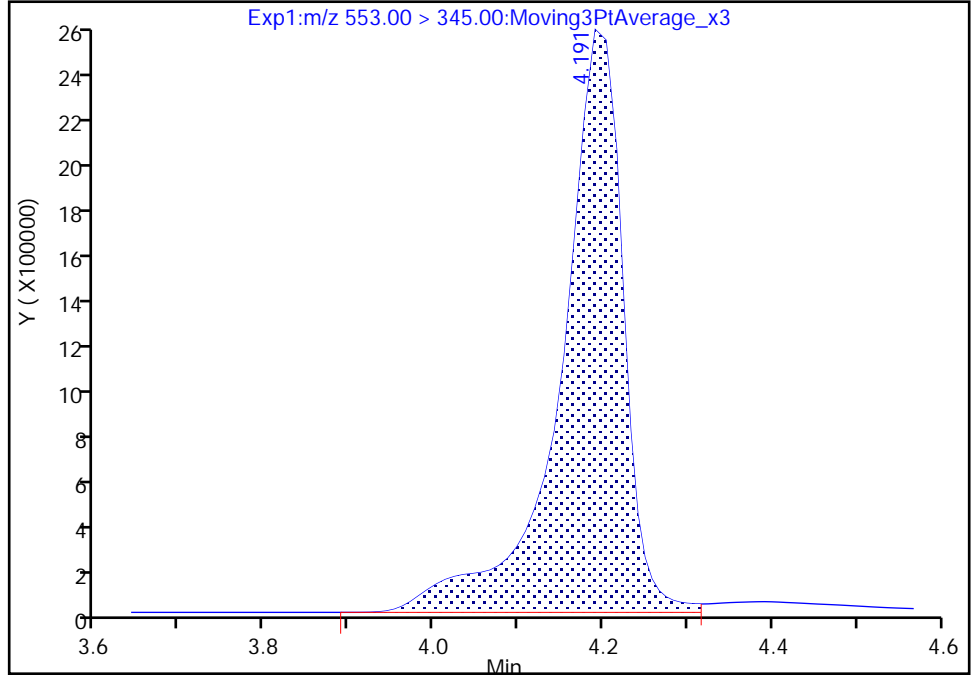
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

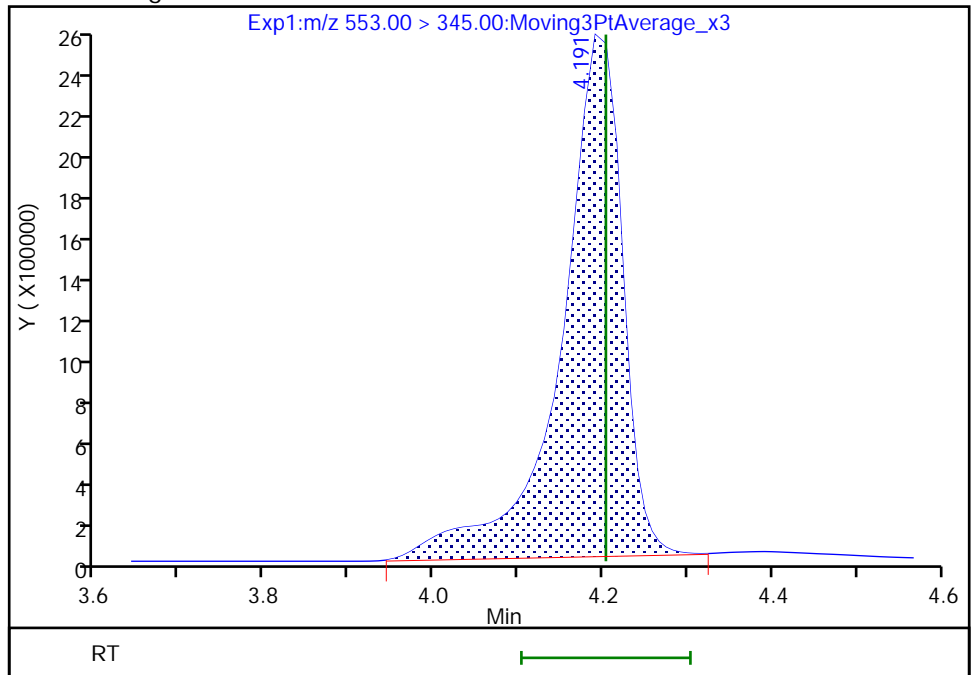
RT: 4.19
Area: 13150745
Amount: 125.4803
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 12776032
Amount: 124.9195
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:38
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

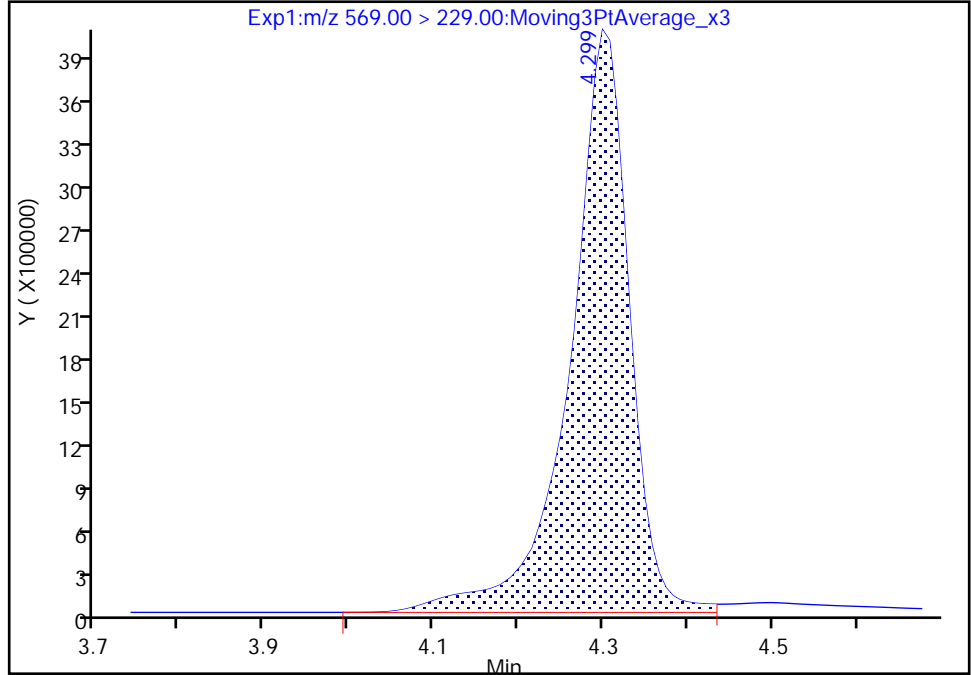
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

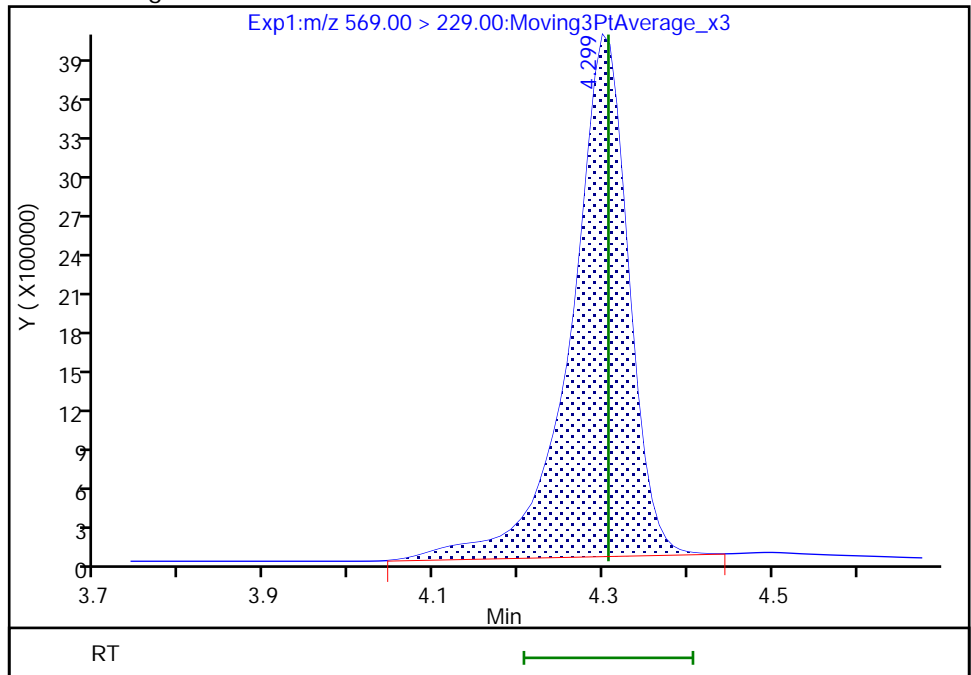
RT: 4.30
Area: 19506415
Amount: 277.3948
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 18872981
Amount: 275.7706
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:43
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

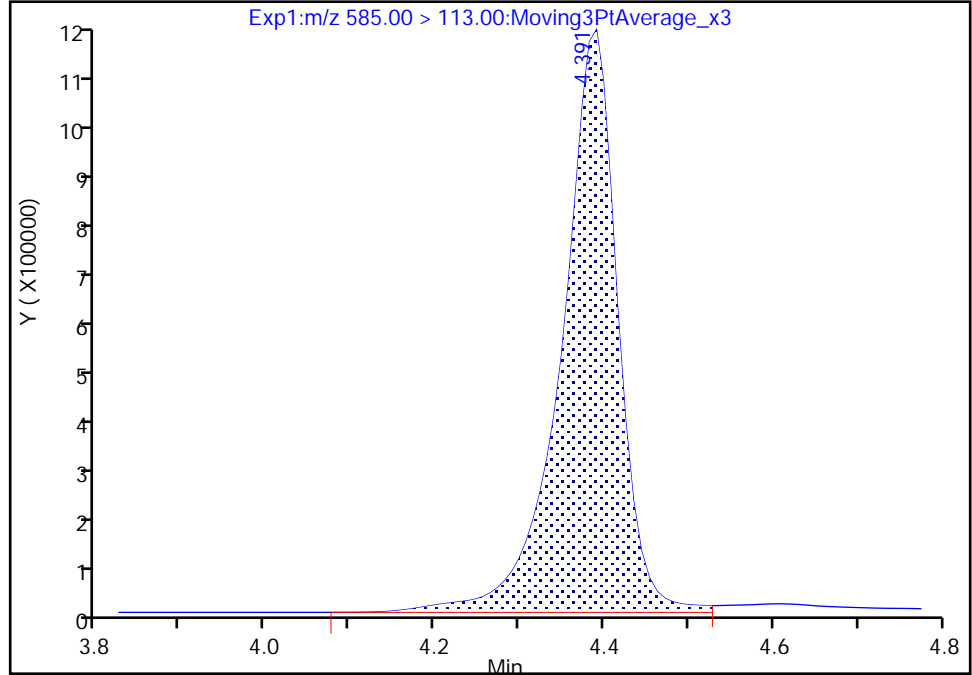
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

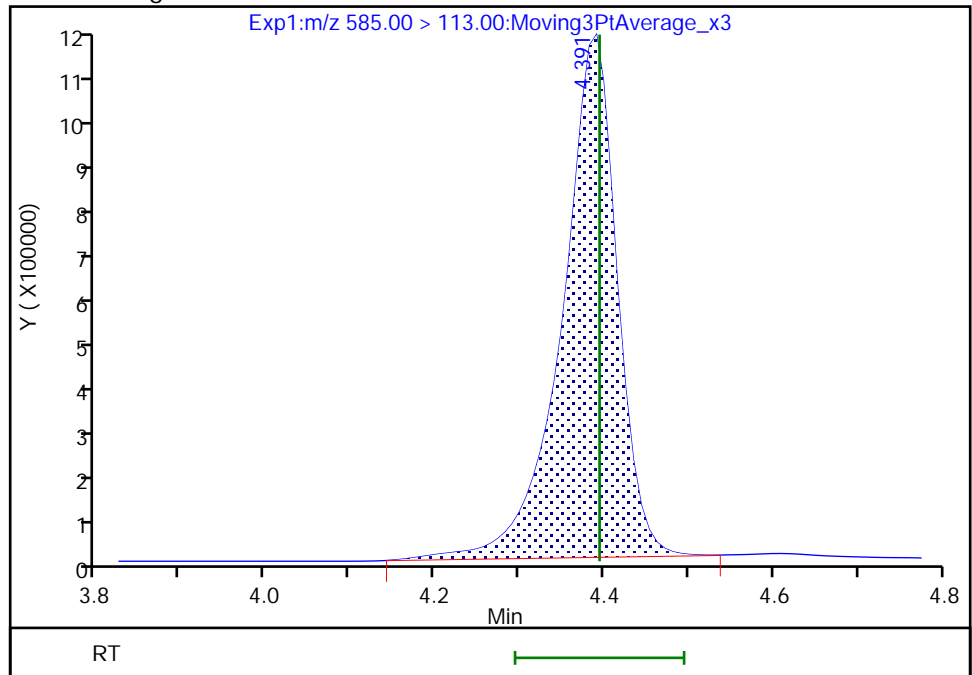
RT: 4.39
Area: 5224290
Amount: 22.088584
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 5068364
Amount: 21.575007
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:46
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

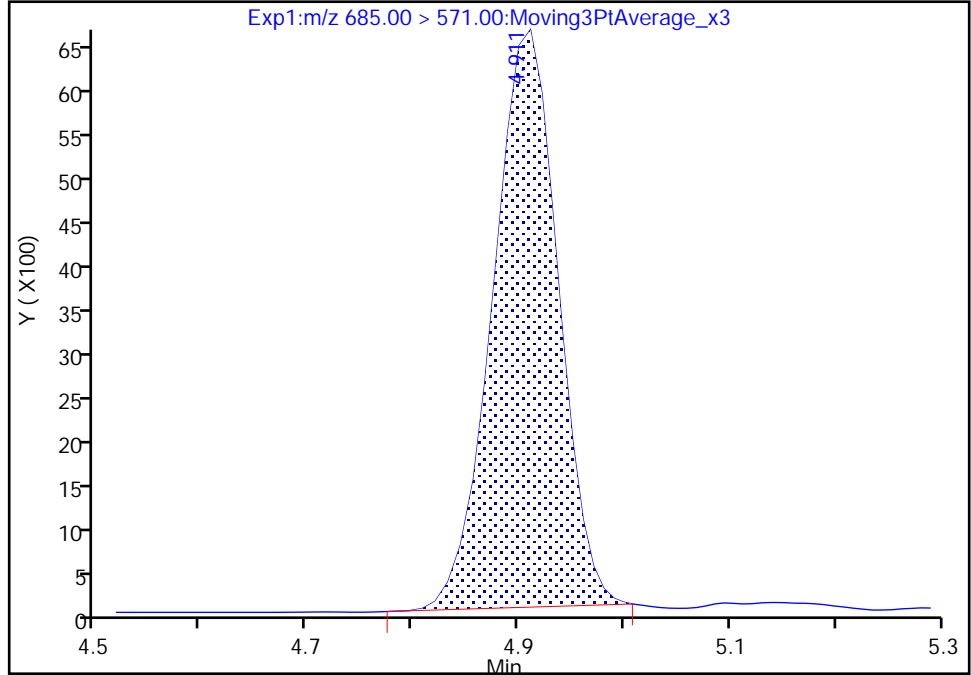
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-11.d
Injection Date: 09-Aug-2022 01:43:48 Instrument ID: 30733
Lims ID: IC CAL 9
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

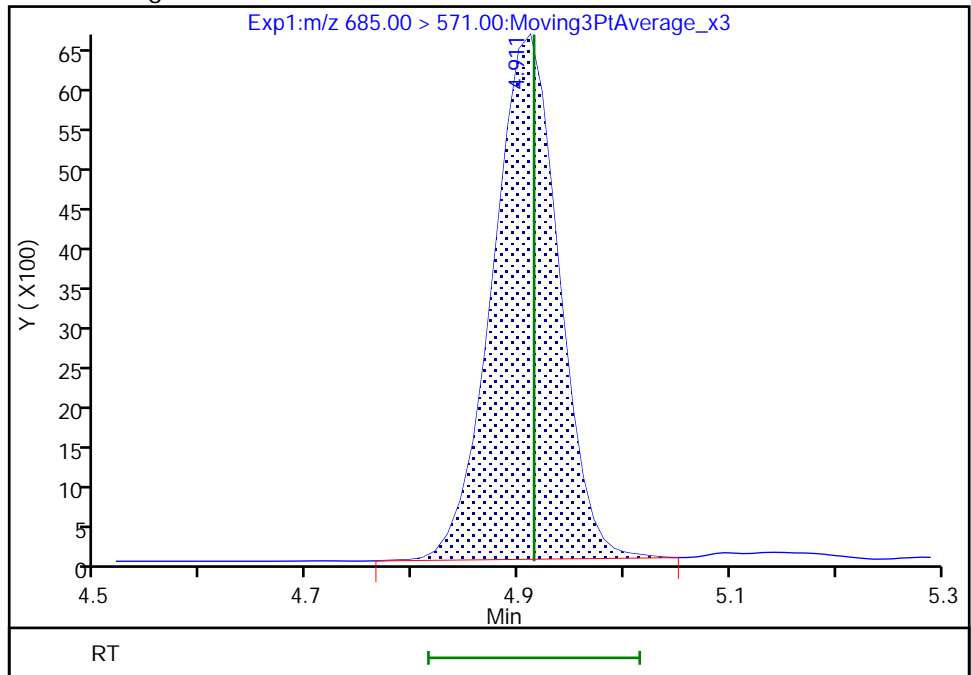
RT: 4.91
Area: 28090
Amount: 5.281686
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 28574
Amount: 5.450567
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:43:53
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 09-Aug-2022 01:56:25 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:52 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:44:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.964	-0.003	0.903	15424775	88.7	99.6	2300	M
2 BFS_A3B									M
519.00 > 113.00	4.042	4.044	-0.002	0.921	20573000	100.3	101	158	M
3 BFS_B3									M
553.00 > 345.00	4.201	4.203	-0.003	0.957	31759941	318.1	100	137	M
4 BFS_A2B2									M
569.00 > 229.00	4.305	4.306	-0.001	0.981	45491370	681.1	98.1	159	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.390	-0.002	0.878	589465	4.79	95.9	284	
5 BFS_A4B									
585.00 > 113.00	4.388	4.395	-0.007	1.000	12732378	55.5	101	171	
7 BFS_AB3									
619.00 > 229.00	4.564	4.569	-0.005	1.040	56956631	761.4	102	149	
8 BFS_A3B2									
635.00 > 113.00	4.671	4.671	0.0	1.065	20577614	129.9	99.2	153	
9 BFS_B4									
669.00 > 461.00	4.804	4.807	-0.003	1.095	9133524	169.8	98.2	198	
10 BFS_A2B3									
685.00 > 571.00	4.907	4.915	-0.008	1.118	68639	12.9	98.8	172	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.998	-0.002		2869550	5.00		321	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Injection Date: 09-Aug-2022 01:56:25

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

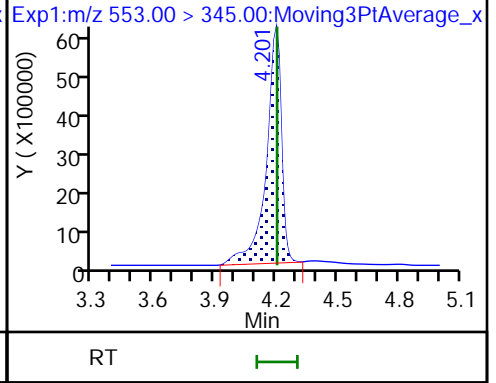
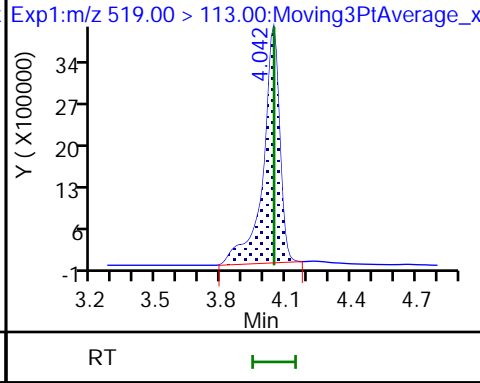
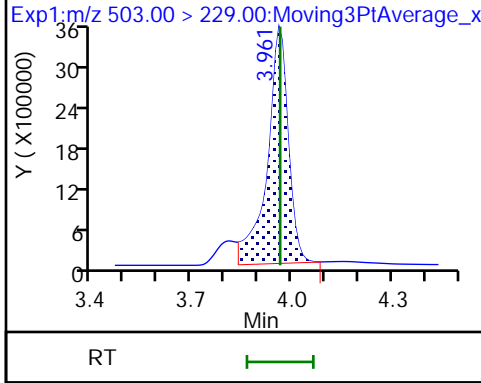
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

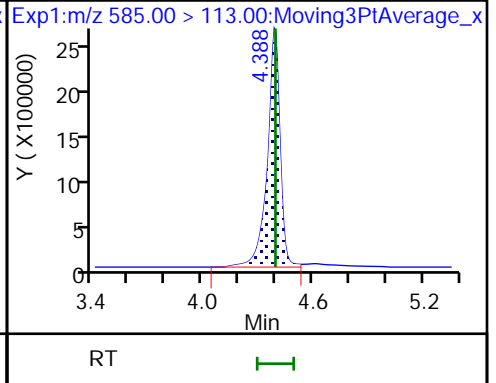
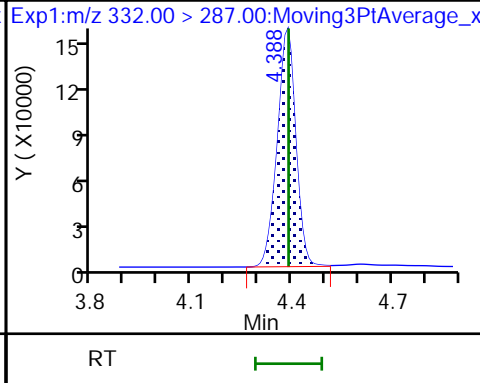
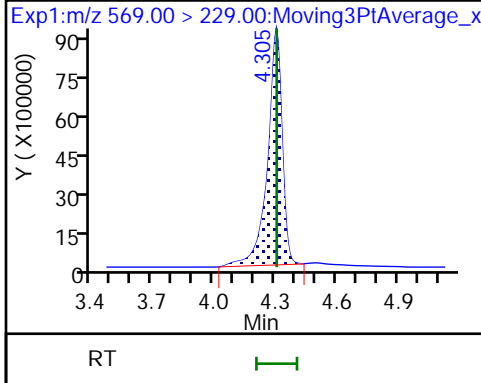
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

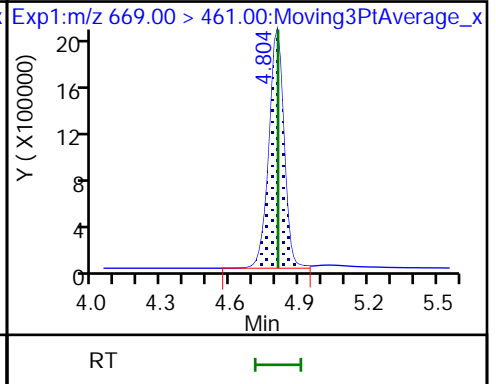
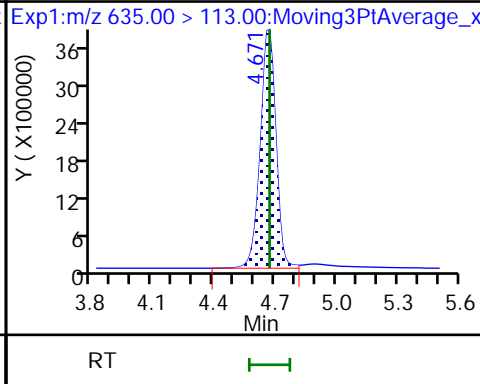
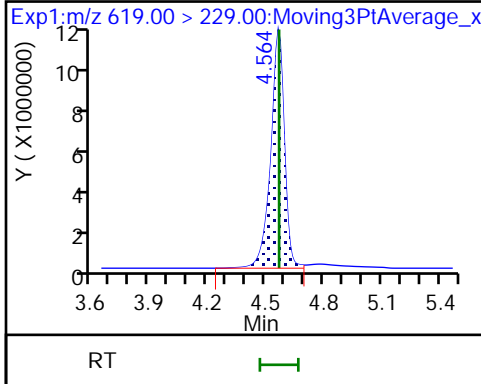
5 BFS_A4B



7 BFS_AB3

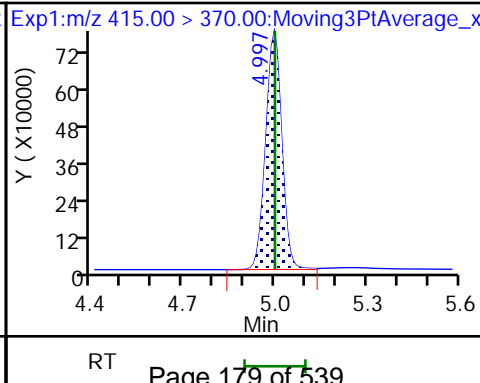
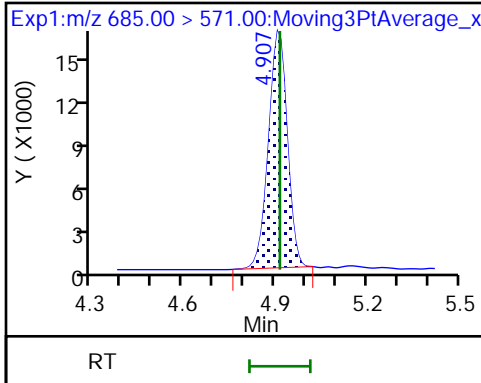
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

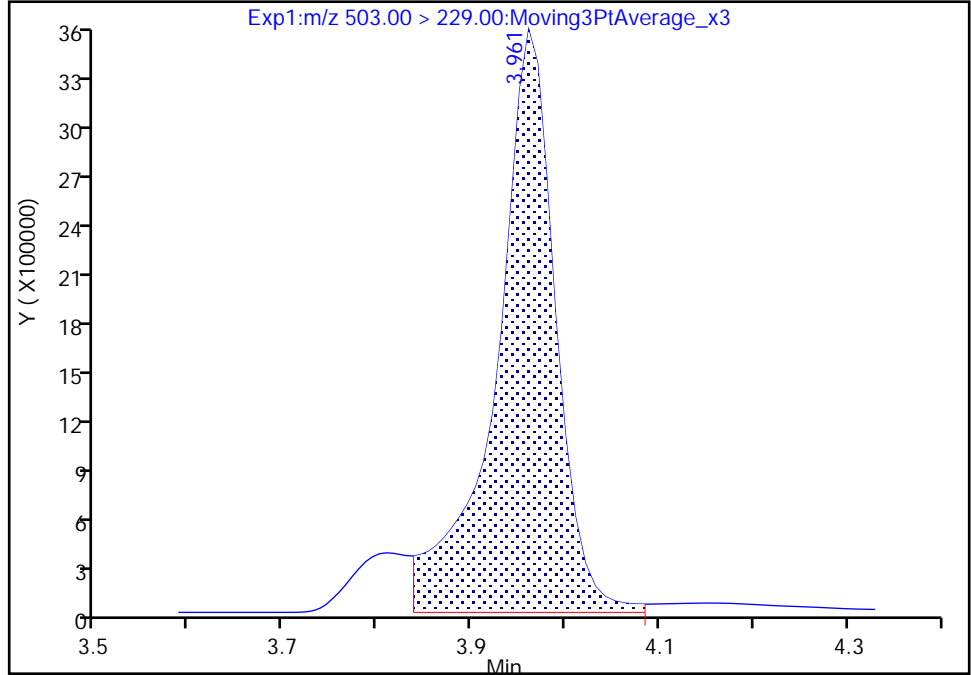
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

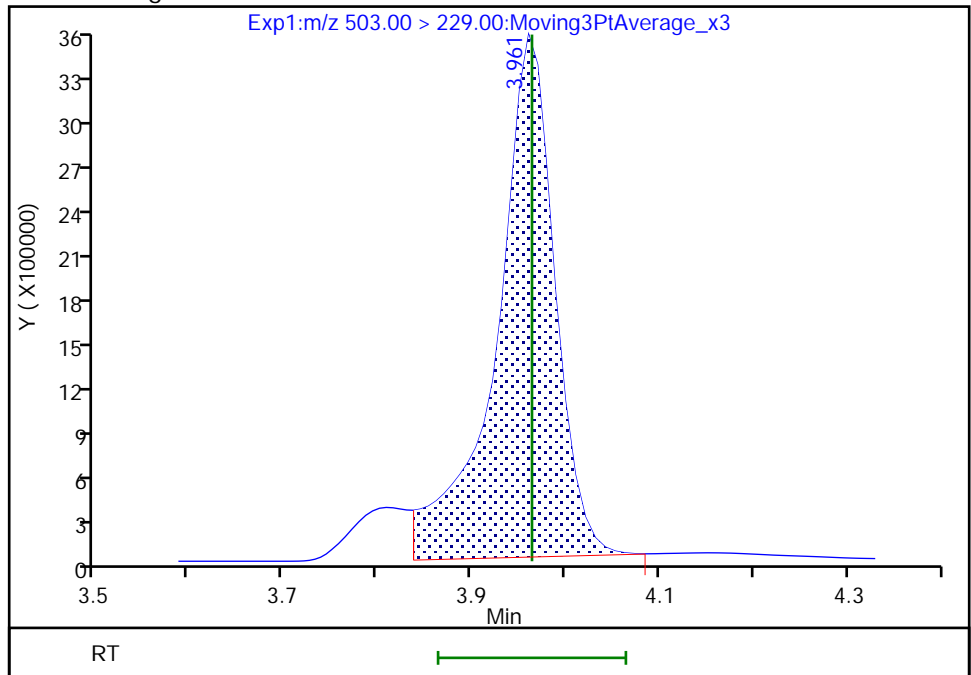
RT: 3.96
Area: 15843921
Amount: 92.803173
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 15424775
Amount: 88.683250
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:07
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

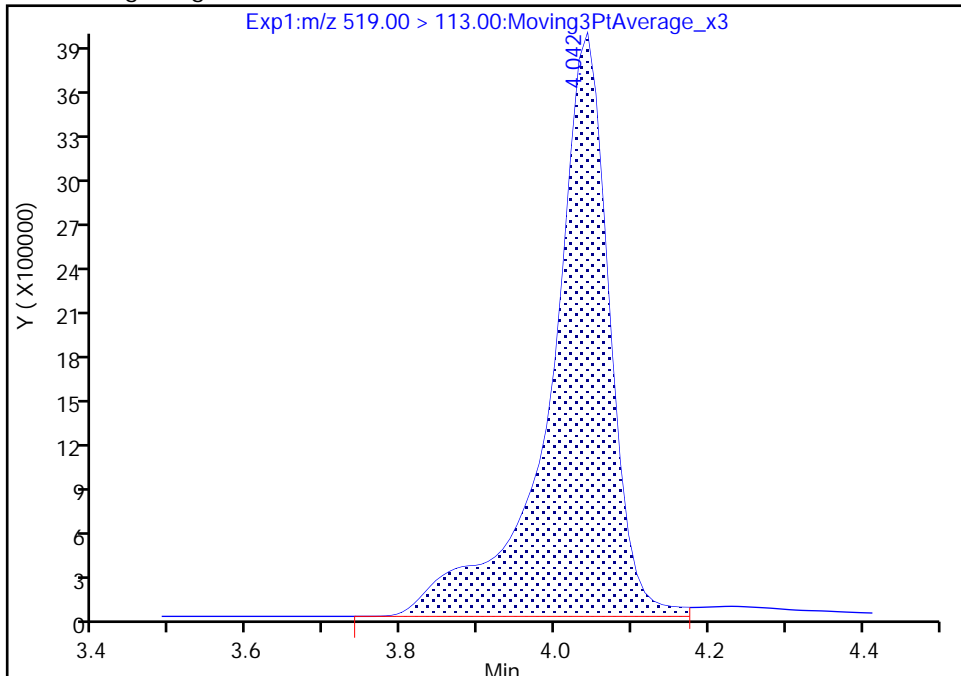
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

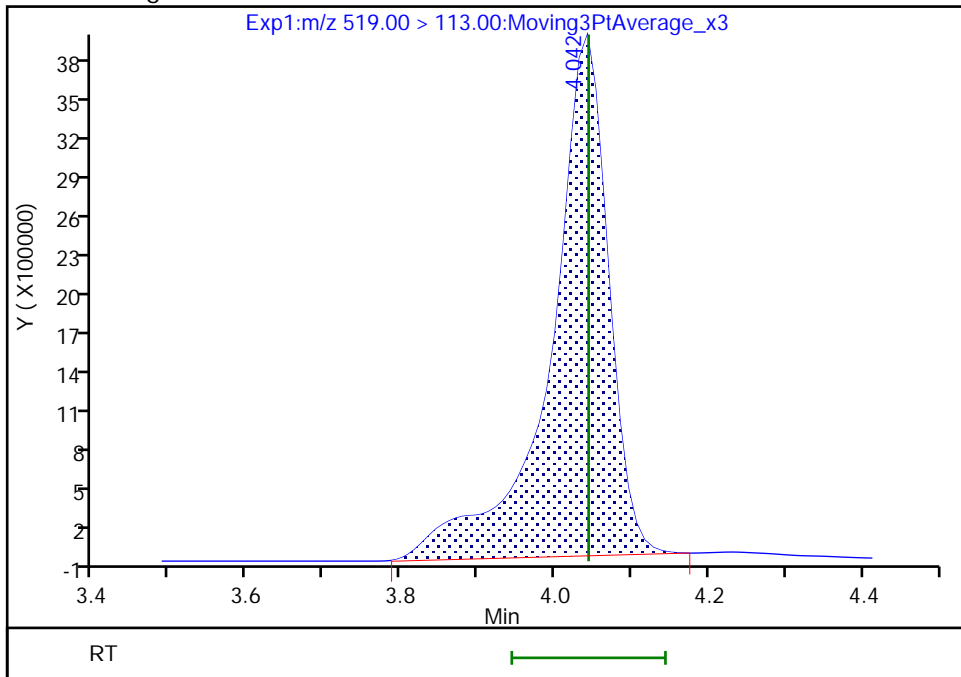
RT: 4.04
Area: 21269447
Amount: 100.6733
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 20573000
Amount: 100.3379
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:12
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

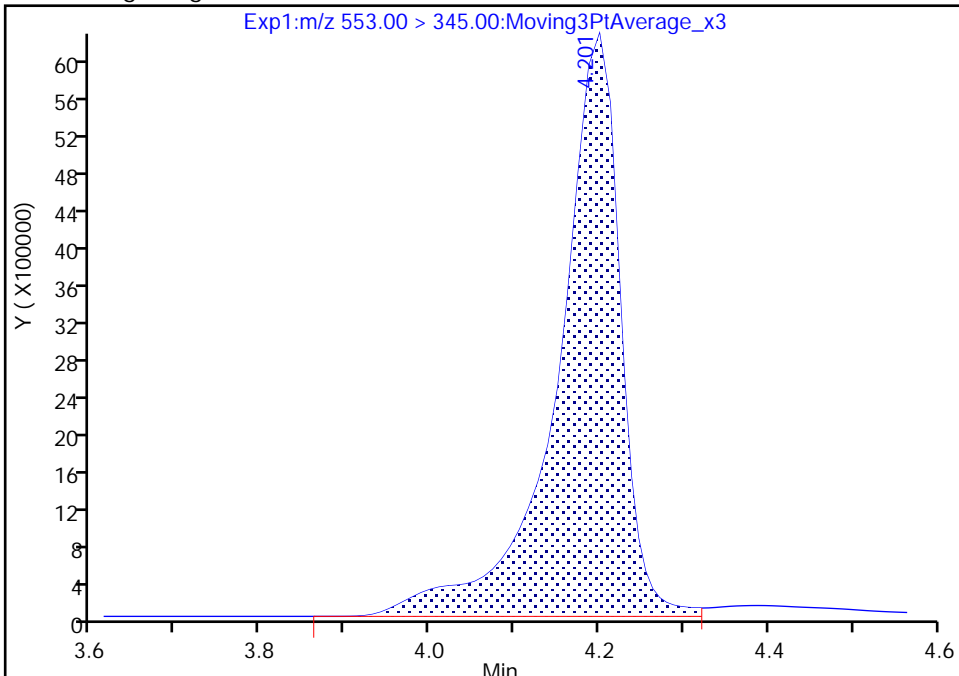
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

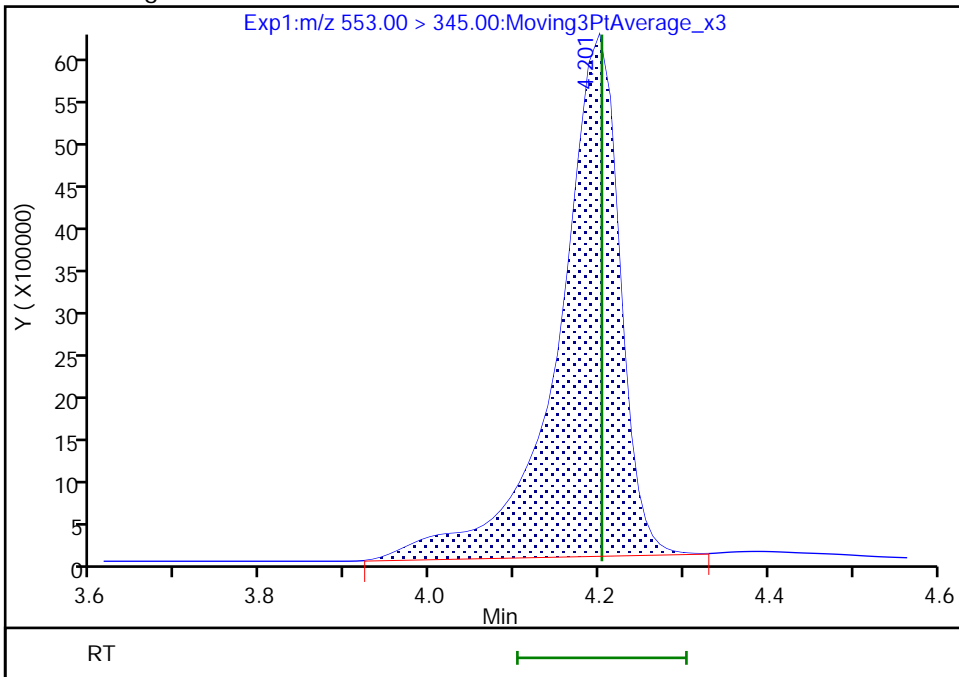
RT: 4.20
Area: 32781085
Amount: 322.4278
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 31759941
Amount: 318.0986
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:15
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

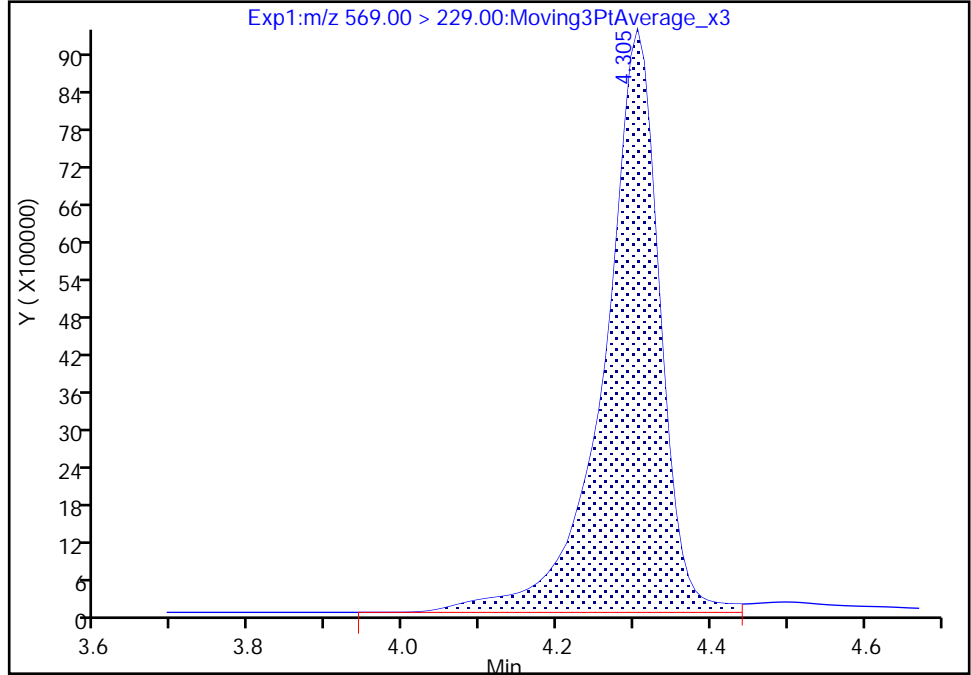
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
Injection Date: 09-Aug-2022 01:56:25 Instrument ID: 30733
Lims ID: IC CAL 10
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

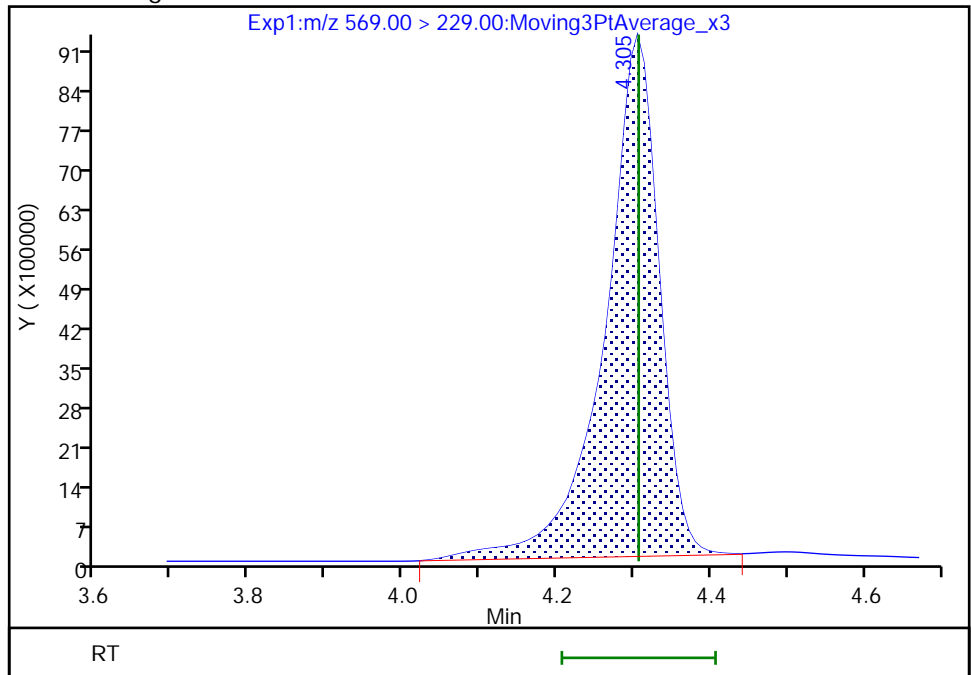
RT: 4.30
Area: 47134382
Amount: 691.7912
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 45491370
Amount: 681.0877
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:19
Audit Action: Manually Integrated

Calibration

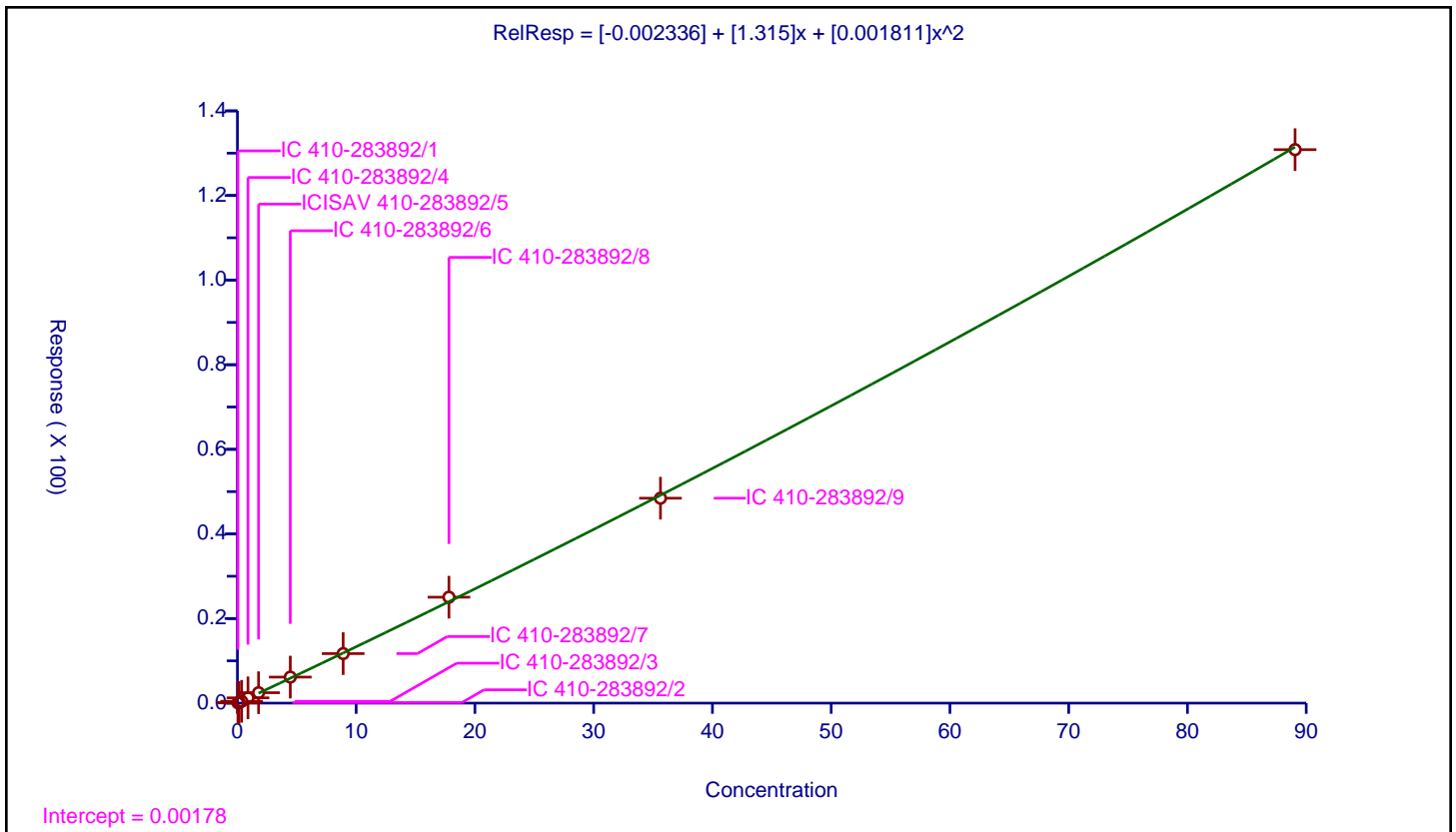
/ BFS_AB2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.002336
Slope:	1.315
Second Order:	0.001811

Error Coefficients	
Standard Error:	6390000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.044531	0.059691	5.0	654204.0	1.340434	Y
2	IC 410-283892/2	0.133593	0.143879	5.0	691937.0	1.076993	Y
3	IC 410-283892/3	0.356248	0.434049	5.0	682883.0	1.218391	Y
4	IC 410-283892/4	0.89062	1.250344	5.0	675382.0	1.403903	Y
5	ICISAV 410-283892/5	1.78124	2.464896	5.0	663036.0	1.383809	Y
6	IC 410-283892/6	4.4531	6.153505	5.0	637015.0	1.381847	Y
7	IC 410-283892/7	8.9062	11.706375	5.0	656951.0	1.314407	Y
8	IC 410-283892/8	17.8124	25.04107	5.0	638673.0	1.405822	Y
9	IC 410-283892/9	35.6248	48.443341	5.0	603912.0	1.359821	Y
10	IC 410-283892/10	89.062	130.837073	5.0	589465.0	1.469056	Y



Calibration

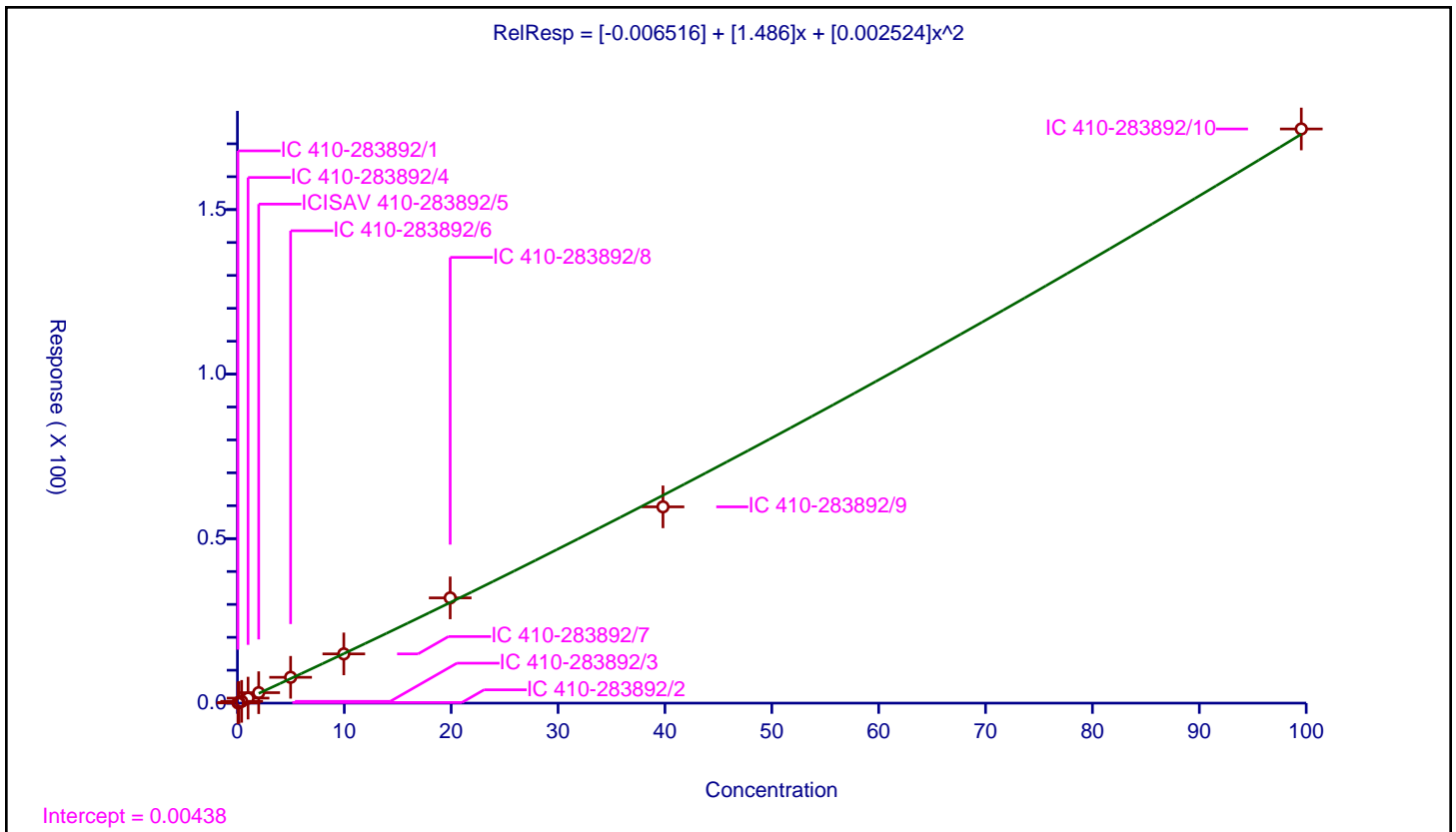
/ BFS_A3B

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006516
Slope:	1.486
Second Order:	0.002524

Error Coefficients	
Standard Error:	8430000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.04977	0.070712	5.0	654204.0	1.42078	Y
2	IC 410-283892/2	0.149309	0.190321	5.0	691937.0	1.274675	Y
3	IC 410-283892/3	0.398158	0.535751	5.0	682883.0	1.345573	Y
4	IC 410-283892/4	0.995395	1.525833	5.0	675382.0	1.532892	Y
5	ICISAV 410-283892/5	1.99079	3.173817	5.0	663036.0	1.59425	Y
6	IC 410-283892/6	4.976975	7.844234	5.0	637015.0	1.576105	Y
7	IC 410-283892/7	9.95395	14.959282	5.0	656951.0	1.502849	Y
8	IC 410-283892/8	19.9079	31.986314	5.0	638673.0	1.606715	Y
9	IC 410-283892/9	39.8158	59.652938	5.0	603912.0	1.498223	Y
10	IC 410-283892/10	99.5395	174.505696	5.0	589465.0	1.75313	Y



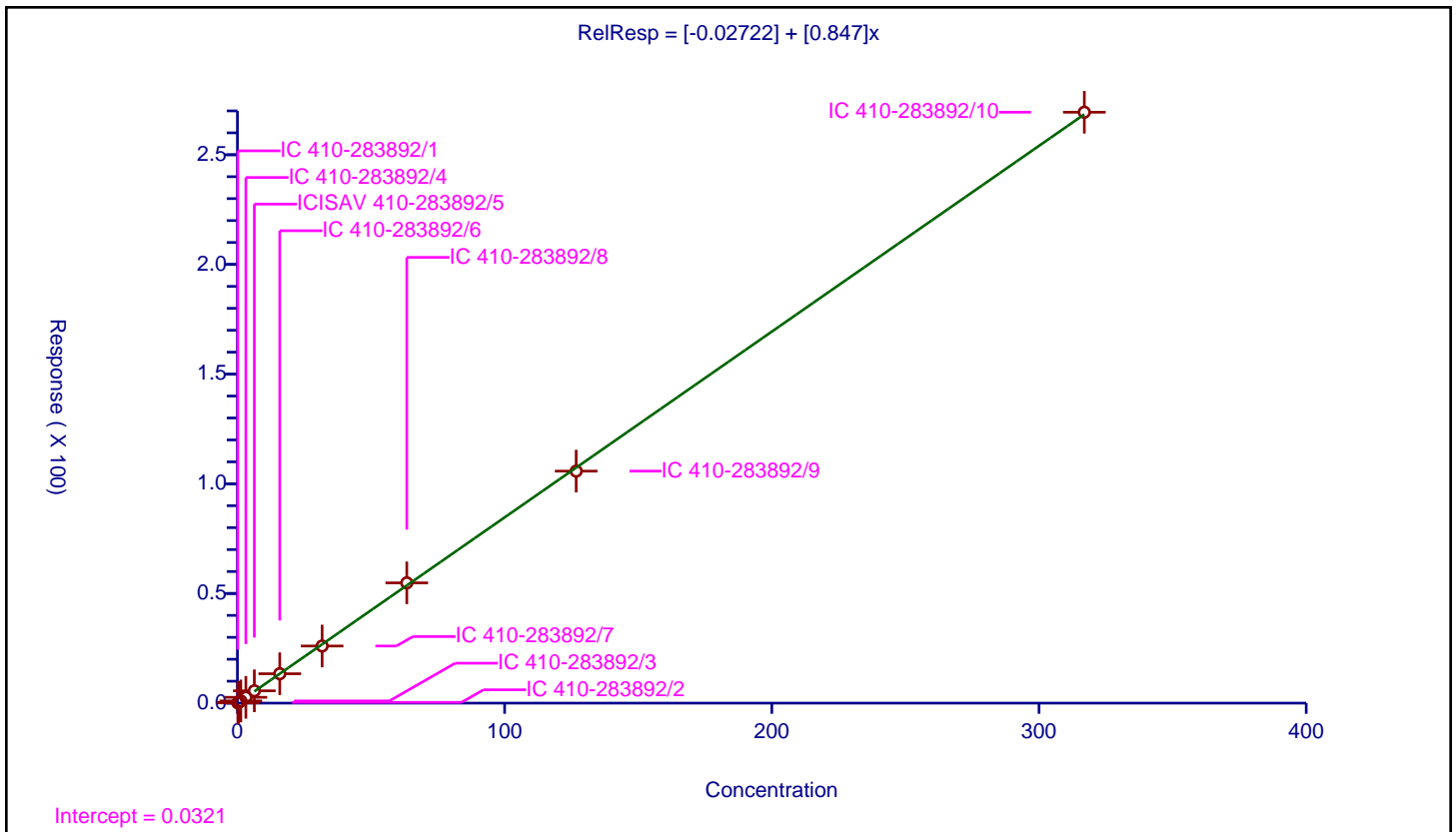
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02722
Slope:	0.847

Error Coefficients	
Standard Error:	12400000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.158478	0.113718	5.0	654204.0	0.717567	Y
2	IC 410-283892/2	0.475433	0.356904	5.0	691937.0	0.750692	Y
3	IC 410-283892/3	1.267822	1.007523	5.0	682883.0	0.794688	Y
4	IC 410-283892/4	3.169555	2.658103	5.0	675382.0	0.838636	Y
5	ICISAV 410-283892/5	6.33911	5.610902	5.0	663036.0	0.885125	Y
6	IC 410-283892/6	15.847775	13.403217	5.0	637015.0	0.845748	Y
7	IC 410-283892/7	31.69555	26.03781	5.0	656951.0	0.821497	Y
8	IC 410-283892/8	63.3911	54.827345	5.0	638673.0	0.864906	Y
9	IC 410-283892/9	126.7822	105.777266	5.0	603912.0	0.834323	Y
10	IC 410-283892/10	316.9555	269.396325	5.0	589465.0	0.84995	Y



Calibration

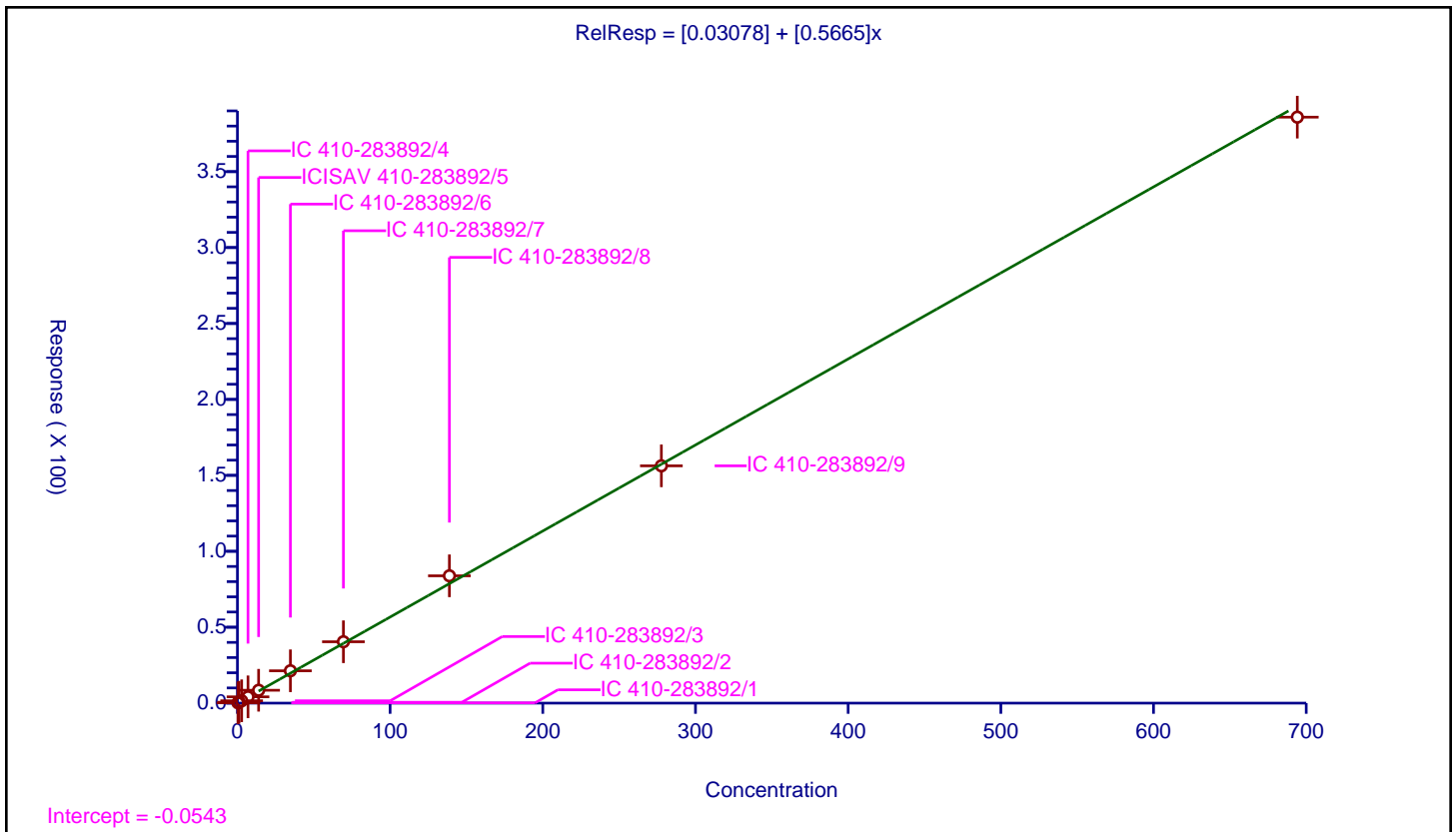
/ BFS_A2B2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.03078
Slope:	0.5665

Error Coefficients	
Standard Error:	17900000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.347079	0.198004	5.0	654204.0	0.570486	Y
2	IC 410-283892/2	1.041238	0.568455	5.0	691937.0	0.545942	Y
3	IC 410-283892/3	2.776634	1.550478	5.0	682883.0	0.558402	Y
4	IC 410-283892/4	6.941585	4.15644	5.0	675382.0	0.598774	Y
5	ICISAV 410-283892/5	13.88317	8.477043	5.0	663036.0	0.610599	Y
6	IC 410-283892/6	34.707925	21.302834	5.0	637015.0	0.613774	Y
7	IC 410-283892/7	69.41585	40.411629	5.0	656951.0	0.582167	Y
8	IC 410-283892/8	138.8317	83.850507	5.0	638673.0	0.603972	Y
9	IC 410-283892/9	277.6634	156.256052	5.0	603912.0	0.562754	Y
10	IC 410-283892/10	694.1585	385.869984	5.0	589465.0	0.555882	Y



Calibration

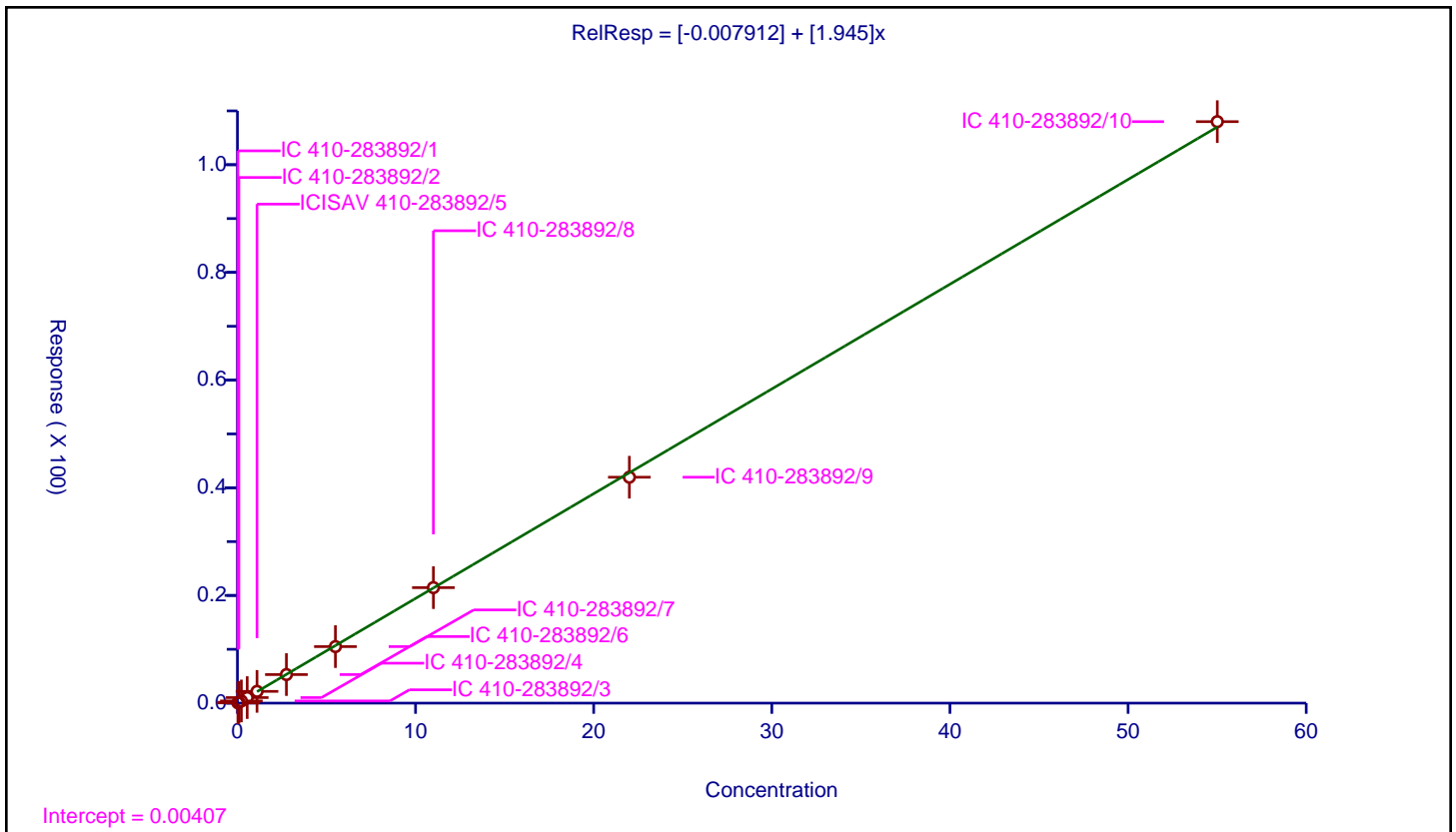
/ BFS_A4B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.007912
Slope:	1.945

Error Coefficients	
Standard Error:	4970000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.027505	0.048502	5.0	654204.0	1.763409	Y
2	IC 410-283892/2	0.082514	0.155693	5.0	691937.0	1.886884	Y
3	IC 410-283892/3	0.220036	0.405282	5.0	682883.0	1.841888	Y
4	IC 410-283892/4	0.55009	1.02958	5.0	675382.0	1.871658	Y
5	ICISAV 410-283892/5	1.10018	2.183547	5.0	663036.0	1.984718	Y
6	IC 410-283892/6	2.75045	5.306445	5.0	637015.0	1.929301	Y
7	IC 410-283892/7	5.5009	10.498888	5.0	656951.0	1.908576	Y
8	IC 410-283892/8	11.0018	21.452559	5.0	638673.0	1.949914	Y
9	IC 410-283892/9	22.0036	41.962769	5.0	603912.0	1.907087	Y
10	IC 410-283892/10	55.009	107.99944	5.0	589465.0	1.963305	Y



Calibration

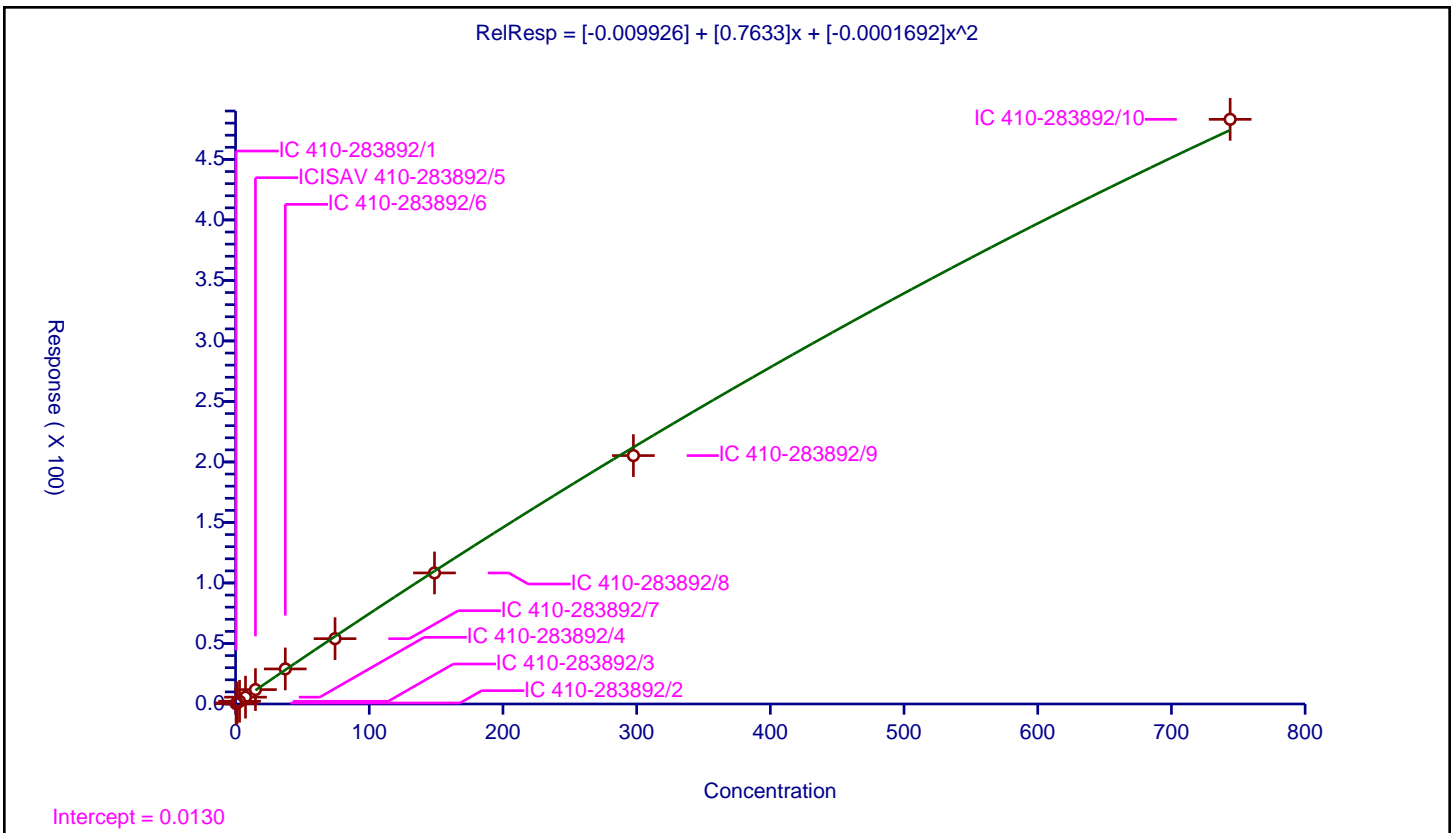
/ BFS_AB3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.009926
Slope:	0.7633
Second Order:	-0.0001692

Error Coefficients	
Standard Error:	24300000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.371964	0.275694	5.0	654204.0	0.741184	Y
2	IC 410-283892/2	1.115893	0.824042	5.0	691937.0	0.73846	Y
3	IC 410-283892/3	2.975714	2.251213	5.0	682883.0	0.756529	Y
4	IC 410-283892/4	7.439285	5.65896	5.0	675382.0	0.760686	Y
5	ICISAV 410-283892/5	14.87857	11.885056	5.0	663036.0	0.798804	Y
6	IC 410-283892/6	37.196425	28.960974	5.0	637015.0	0.778596	Y
7	IC 410-283892/7	74.39285	53.979741	5.0	656951.0	0.725604	Y
8	IC 410-283892/8	148.7857	108.296092	5.0	638673.0	0.727866	Y
9	IC 410-283892/9	297.5714	205.276042	5.0	603912.0	0.689838	Y
10	IC 410-283892/10	743.9285	483.121398	5.0	589465.0	0.649419	Y



Calibration

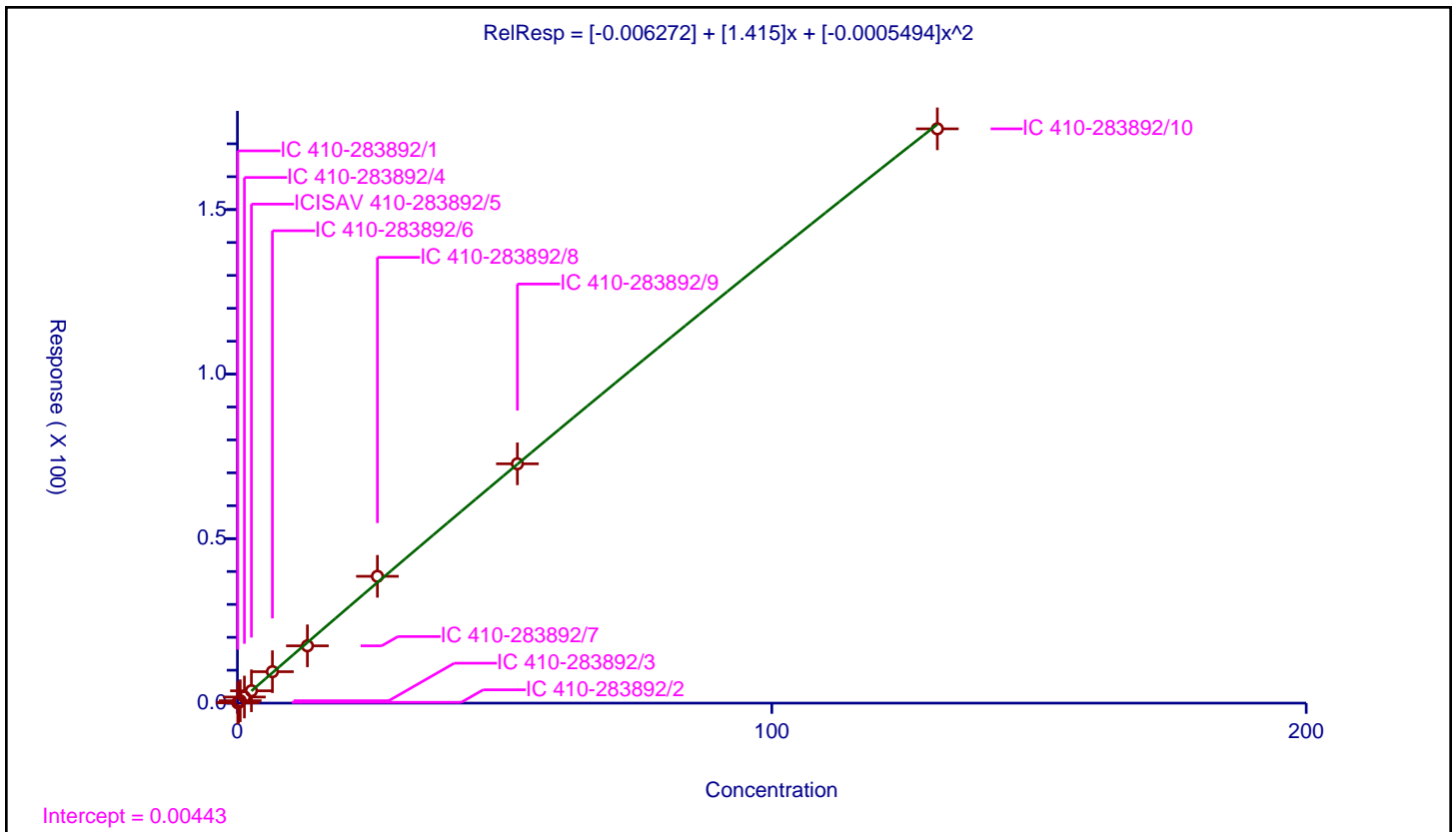
/ BFS_A3B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006272
Slope:	1.415
Second Order:	-0.0005494

Error Coefficients	
Standard Error:	8720000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.065487	0.088268	5.0	654204.0	1.347869	Y
2	IC 410-283892/2	0.19646	0.254387	5.0	691937.0	1.294854	Y
3	IC 410-283892/3	0.523894	0.731633	5.0	682883.0	1.396529	Y
4	IC 410-283892/4	1.309735	1.860473	5.0	675382.0	1.420496	Y
5	ICISAV 410-283892/5	2.61947	3.749253	5.0	663036.0	1.431302	Y
6	IC 410-283892/6	6.548675	9.552734	5.0	637015.0	1.458728	Y
7	IC 410-283892/7	13.09735	17.412303	5.0	656951.0	1.329452	Y
8	IC 410-283892/8	26.1947	38.546729	5.0	638673.0	1.471547	Y
9	IC 410-283892/9	52.3894	72.737568	5.0	603912.0	1.388402	Y
10	IC 410-283892/10	130.9735	174.544833	5.0	589465.0	1.332673	Y



Calibration

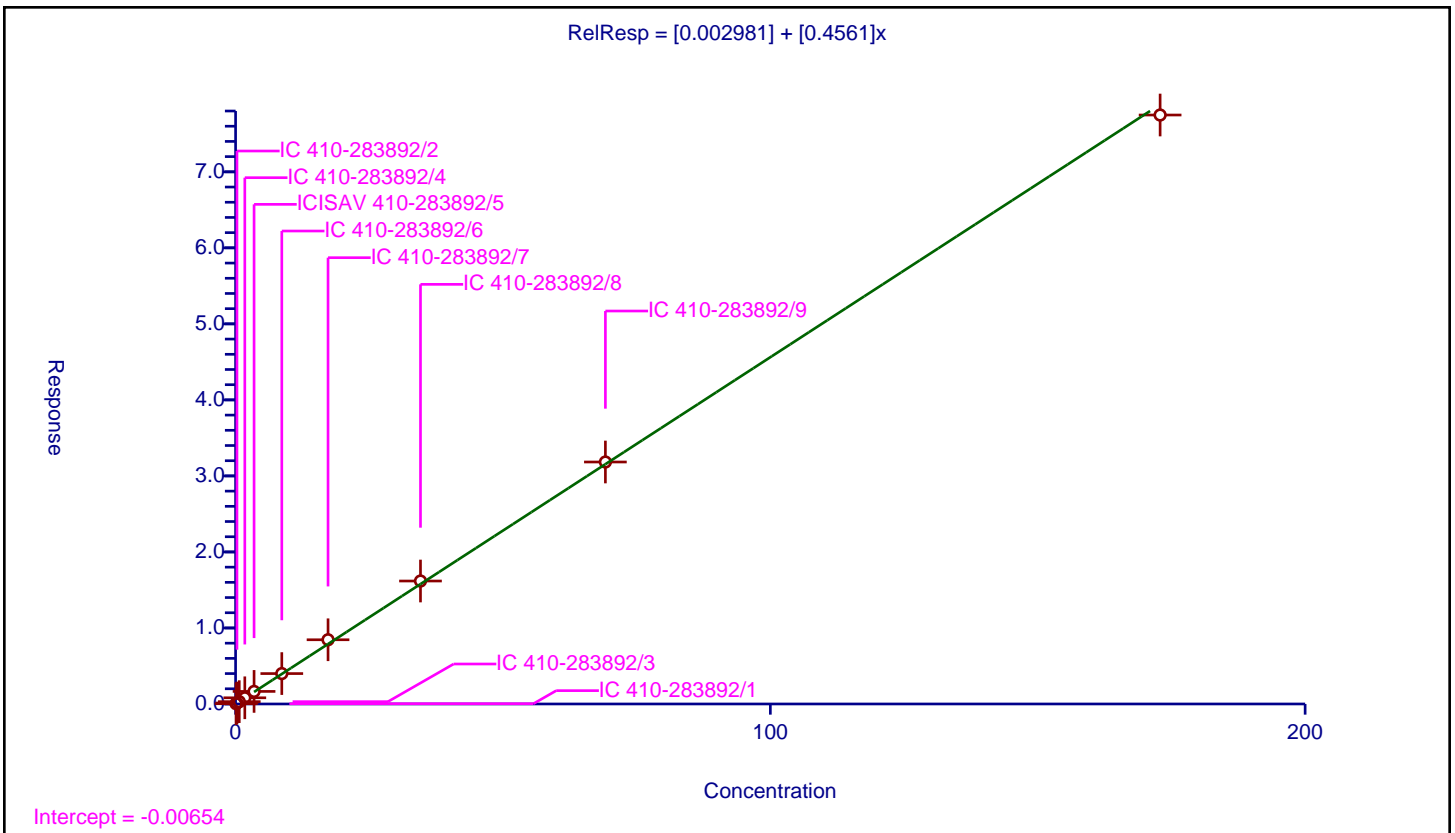
/ BFS_B4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.002981
Slope:	0.4561

Error Coefficients	
Standard Error:	3610000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.086443	0.035249	5.0	654204.0	0.407773	Y
2	IC 410-283892/2	0.259328	0.1265	5.0	691937.0	0.4878	Y
3	IC 410-283892/3	0.69154	0.305719	5.0	682883.0	0.442084	Y
4	IC 410-283892/4	1.72885	0.814406	5.0	675382.0	0.471068	Y
5	ICISAV 410-283892/5	3.4577	1.653726	5.0	663036.0	0.478273	Y
6	IC 410-283892/6	8.64425	3.999513	5.0	637015.0	0.462679	Y
7	IC 410-283892/7	17.2885	8.449382	5.0	656951.0	0.488728	Y
8	IC 410-283892/8	34.577	16.176236	5.0	638673.0	0.467832	Y
9	IC 410-283892/9	69.154	31.830085	5.0	603912.0	0.460278	Y
10	IC 410-283892/10	172.885	77.472997	5.0	589465.0	0.448119	Y



Calibration

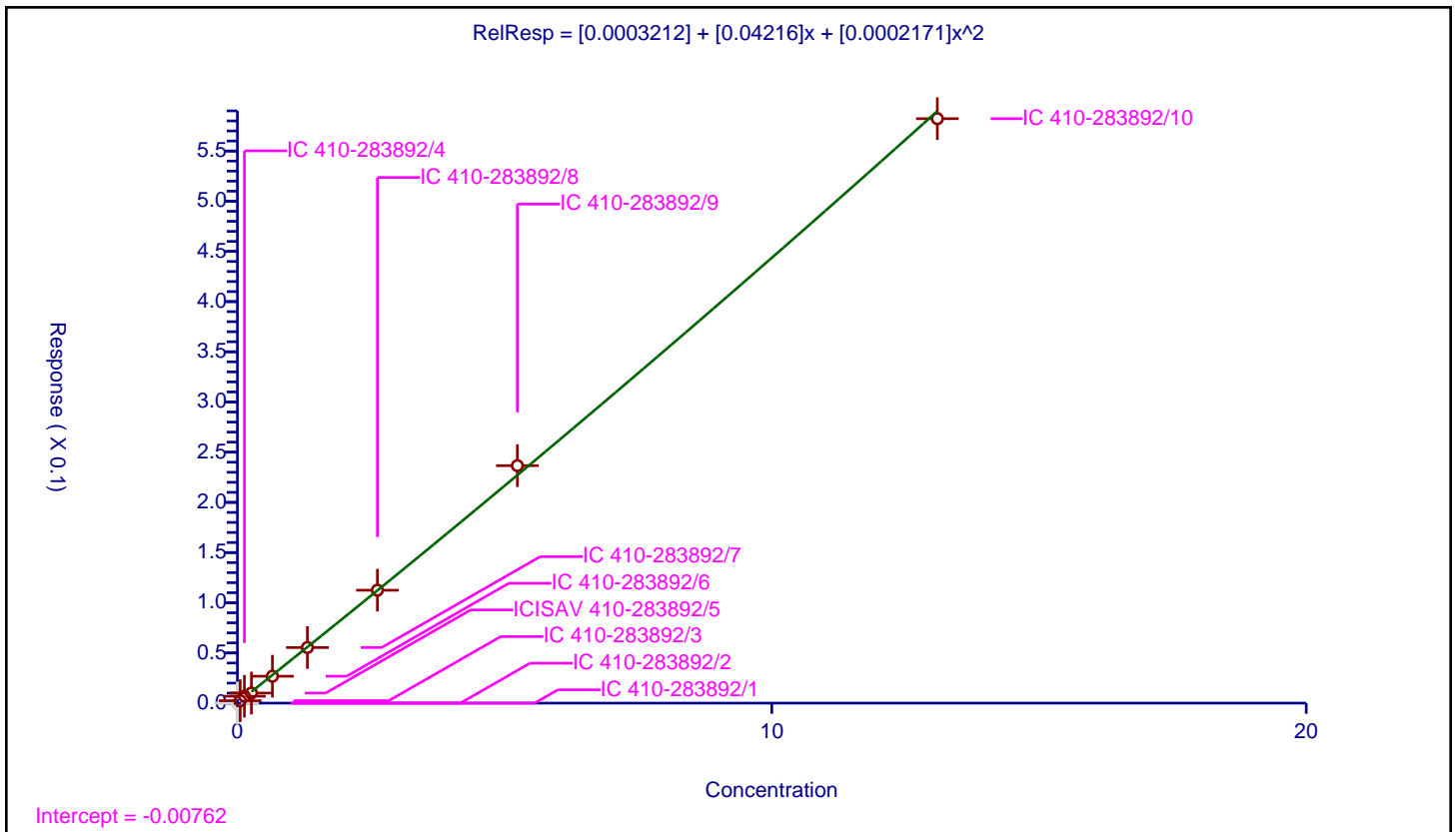
/ BFS_A2B3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0003212
Slope:	0.04216
Second Order:	0.0002171

Error Coefficients	
Standard Error:	34100
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283892/1	0.0	0.0	5.0	654204.0	NaN	N
2	IC 410-283892/2	0.0	0.0	5.0	691937.0	NaN	N
3	IC 410-283892/3	0.05239	0.002424	5.0	682883.0	0.04626	Y
4	IC 410-283892/4	0.130975	0.006892	5.0	675382.0	0.052624	Y
5	ICISAV 410-283892/5	0.26195	0.010067	5.0	663036.0	0.038432	Y
6	IC 410-283892/6	0.654875	0.02682	5.0	637015.0	0.040955	Y
7	IC 410-283892/7	1.30975	0.055392	5.0	656951.0	0.042292	Y
8	IC 410-283892/8	2.6195	0.112499	5.0	638673.0	0.042947	Y
9	IC 410-283892/9	5.239	0.236574	5.0	603912.0	0.045156	Y
10	IC 410-283892/10	13.0975	0.582214	5.0	589465.0	0.044452	Y



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285706/1	22AUG13BFS-01.d
Level 2	IC 410-285706/2	22AUG13BFS-02.d
Level 3	IC 410-285706/3	22AUG13BFS-03.d
Level 4	IC 410-285706/4	22AUG13BFS-04.d
Level 5	ICISAV 410-285706/5	22AUG13BFS-05.d
Level 6	IC 410-285706/6	22AUG13BFS-06.d
Level 7	IC 410-285706/7	22AUG13BFS-07.d
Level 8	IC 410-285706/8	22AUG13BFS-08.d
Level 9	IC 410-285706/9	22AUG13BFS-09.d
Level 10	IC 410-285706/10	22AUG13BFS-10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
BFS_AB2	1.6556 1.7158	1.6677 1.8230	1.6156 1.7061	1.6427 1.7937	1.6393 1.7020	L1ID	-0.01 0	1.729 5						0.9990		0.9900	
BFS_A3B	1.6321 2.0096	1.7293 1.9853	1.8031 1.9563	1.8593 2.0766	1.9137 1.8730	L1ID	-0.01 8	1.939 0						0.9980		0.9900	
BFS_B3	0.9917 1.1360	1.0800 1.1481	1.0745 1.1084	1.0612 1.1565	1.0851 1.0216	L1ID	0.013 9	1.072 7						0.9970		0.9900	
BFS_A2B2	0.6748 0.7939	0.6980 0.8394	0.7380 0.7496	0.7599 0.7249	0.7709 0.6577	Q2ID	-0.04 3	0.781 7	-0.000174					0.9980		0.9900	
BFS_A4B	2.2578 2.5045	2.2120 2.6346	2.1760 2.4873	2.4049 2.4055	2.4993 2.3288	L1ID	0.000 6	2.387 5						0.9990		0.9900	
BFS_AB3	1.0123 1.0809	1.0183 1.0581	1.0757 1.0180	1.0687 0.8732	1.1419 0.8740	Q2ID	-0.02 7	1.077 2	-0.000329					0.9980		0.9900	
BFS_A3B2	1.9585 2.1064	1.9723 2.0473	1.9594 2.0269	2.0869 1.8348	2.1136 1.8493	Q2ID	-0.00 8	2.059 2	-0.001911					0.9990		0.9900	
BFS_B4	0.7033 0.6981	0.6373 0.6780	0.6381 0.6665	0.6643 0.6417	0.7157 0.6292	Q2ID	0.001 1	0.673 6	-0.000269					0.9980		0.9900	
BFS_A2B3	++++ 0.0730	++++ 0.0714	0.0603 0.0681	0.0652 0.0628	0.0697 0.0678	L1ID	0.000 1	0.067 0						0.9980		0.9900	
13C3 HFPO-DA	0.1999 0.1967	0.1989 0.1991	0.2088 0.1953	0.2021 0.2071	0.2021 0.1961	Ave		0.200 6			2.3						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285706/1	22AUG13BFS-01.d
Level 2	IC 410-285706/2	22AUG13BFS-02.d
Level 3	IC 410-285706/3	22AUG13BFS-03.d
Level 4	IC 410-285706/4	22AUG13BFS-04.d
Level 5	ICISAV 410-285706/5	22AUG13BFS-05.d
Level 6	IC 410-285706/6	22AUG13BFS-06.d
Level 7	IC 410-285706/7	22AUG13BFS-07.d
Level 8	IC 410-285706/8	22AUG13BFS-08.d
Level 9	IC 410-285706/9	22AUG13BFS-09.d
Level 10	IC 410-285706/10	22AUG13BFS-10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
BFS_AB2		L1ID	9195	27359	71092	185976	358039	0.0445	0.134	0.356	0.891	1.78
			928818	1966651	3673322	7962452	17604602	4.45	8.91	17.8	35.6	89.1
BFS_A3B		L1ID	10131	31708	88676	235259	467147	0.0498	0.149	0.398	0.995	1.99
			1215843	2393692	4707461	10302824	21651619	4.98	9.95	19.9	39.8	99.5
BFS_B3		L1ID	19601	63052	168263	427569	843412	0.158	0.475	1.27	3.17	6.34
			2188545	4407906	8493131	18271211	37604912	15.8	31.7	63.4	127	317
BFS_A2B2		Q2ID	29208	89254	253099	670538	1312413	0.347	1.04	2.78	6.94	13.9
			3349872	7057685	12578256	25081980	53023174	34.7	69.4	139	278	694
BFS_A4B		L1ID	7745	22414	59139	168162	337168	0.0275	0.0825	0.220	0.550	1.10
			837391	1755466	3307688	6595417	14877264	2.75	5.50	11.0	22.0	55.0
BFS_AB3		Q2ID	46960	139544	395397	1010634	2083219	0.372	1.12	2.98	7.44	14.9
			4887607	9534882	18308007	32379885	75507247	37.2	74.4	149	298	744
BFS_A3B2		Q2ID	15996	47583	126791	347438	678875	0.0655	0.196	0.524	1.31	2.62
			1676878	3247924	6417526	11977716	28128569	6.55	13.1	26.2	52.4	131
BFS_B4		Q2ID	7582	20295	54508	145983	303456	0.0864	0.259	0.692	1.73	3.46
			733541	1419837	2785380	5529764	12632285	8.64	17.3	34.6	69.2	173
BFS_A2B3		L1ID	+++++	+++++	390	1085	2238	+++++	+++++	0.0524	0.131	0.262
			5813	11331	21575	40996	103106	0.655	1.31	2.62	5.24	13.1
13C3 HFPO-DA	13PF OA	Ave	623591	614007	617591	635578	613094	5.00	5.00	5.00	5.00	5.00
			607823	605647	604361	623048	580678	5.00	5.00	5.00	5.00	5.00

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Curve Type Legend

Ave = Average ISTD L1ID = Linear 1/conc IsoDil Q2ID = Quadratic 1/conc ² IsoDil
--

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 285706

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2022 02:34 Calibration End Date: 08/14/2022 04:29 Calibration ID: 41718

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285706/1	22AUG13BFS-01.d
Level 2	IC 410-285706/2	22AUG13BFS-02.d
Level 3	IC 410-285706/3	22AUG13BFS-03.d
Level 4	IC 410-285706/4	22AUG13BFS-04.d
Level 5	ICISAV 410-285706/5	22AUG13BFS-05.d
Level 6	IC 410-285706/6	22AUG13BFS-06.d
Level 7	IC 410-285706/7	22AUG13BFS-07.d
Level 8	IC 410-285706/8	22AUG13BFS-08.d
Level 9	IC 410-285706/9	22AUG13BFS-09.d
Level 10	IC 410-285706/10	22AUG13BFS-10.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
BFS_AB2	8.1	0.6	-5.0	-4.4	-4.9	-0.7	50	30	30	30	30	30
	5.5	-1.3	3.7	-1.6			30	30	30	30		
BFS_A3B	2.5	-4.7	-4.7	-3.2	-0.8	3.8	50	30	30	30	30	30
	2.5	0.9	7.1	-3.4			30	30	30	30		
BFS_B3	-15.7	-2.1	-0.9	-1.5	0.9	5.8	50	30	30	30	30	30
	7.0	3.3	7.8	-4.8			30	30	30	30		
BFS_A2B2	2.3	-5.4	-3.5	-1.8	-0.7	2.5	50	30	30	30	30	30
	9.3	-1.0	-1.2	-0.5			30	30	30	30		
BFS_A4B	-6.4	-7.7	-9.0	0.7	4.7	4.9	50	30	30	30	30	30
	10.3	4.2	0.7	-2.5			30	30	30	30		
BFS_AB3	0.8	-3.2	0.8	-0.2	6.7	1.6	50	30	30	30	30	30
	0.6	-1.0	-11.9	7.3			30	30	30	30		
BFS_A3B2	1.1	-2.2	-4.1	1.8	3.0	3.0	50	30	30	30	30	30
	0.7	0.9	-6.7	2.6			30	30	30	30		
BFS_B4	2.5	-6.0	-5.5	-1.4	6.4	4.0	50	30	30	30	30	30
	1.4	0.3	-2.1	0.4			30	30	30	30		
BFS_A2B3	+++++	+++++	-11.8	-3.5	3.6	8.8			50	30	30	30
	6.5	1.6	-6.3	1.1			30	30	30	30		
13C3 HFPO-DA		-0.8	4.1	0.7	0.7	-1.9		30	30	30	30	30
	-0.7	-2.7	3.2	-2.3			30	30	30	30		

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-Aug-2022 02:34:33 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:37 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:23:39

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.941	3.932	0.009	0.905	9195	0.0482	108	171	M
2 BFS_A3B									M
519.00 > 113.00	4.021	4.008	0.013	0.923	10131	0.0510	103	47.0	M
3 BFS_B3									M
553.00 > 345.00	4.163	4.161	0.002	0.956	19601	0.1335	84.3	61.4	M
4 BFS_A2B2									
569.00 > 229.00	4.280	4.267	0.013	0.983	29208	0.3550	102	140	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.355	4.348	0.007	0.877	623591	4.98	99.6	714	
5 BFS_A4B									
585.00 > 113.00	4.355	4.354	0.001	1.000	7745	0.0257	93.6	89.4	
7 BFS_AB3									
619.00 > 229.00	4.534	4.525	0.009	1.041	46960	0.3749	101	304	
8 BFS_A3B2									M
635.00 > 113.00	4.637	4.627	0.010	1.065	15996	0.0662	101	272	M
9 BFS_B4									
669.00 > 461.00	4.771	4.762	0.009	1.096	7582	0.0886	103	75.5	
* 11 13C2 PFOA									
415.00 > 370.00	4.967	4.958	0.009		3119552	5.00		829	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d

Injection Date: 14-Aug-2022 02:34:33

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

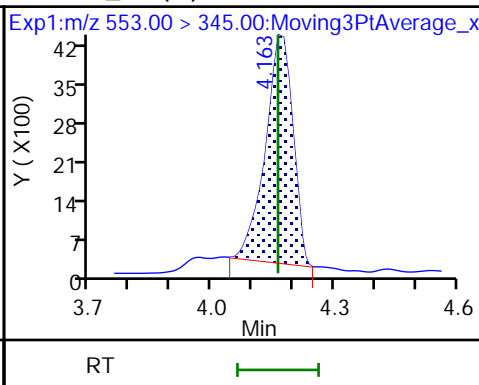
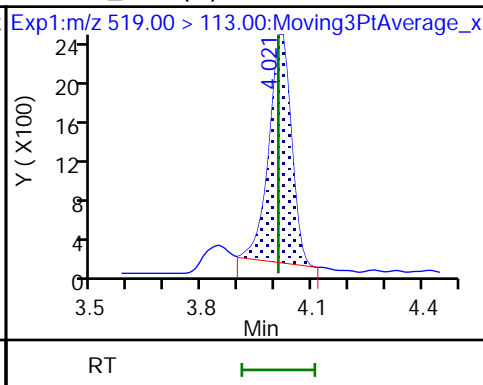
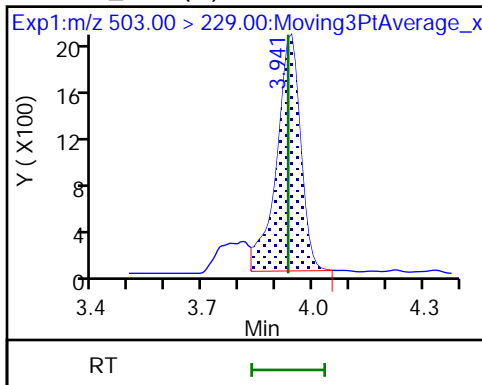
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

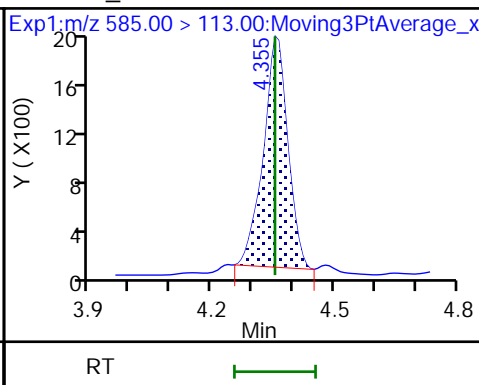
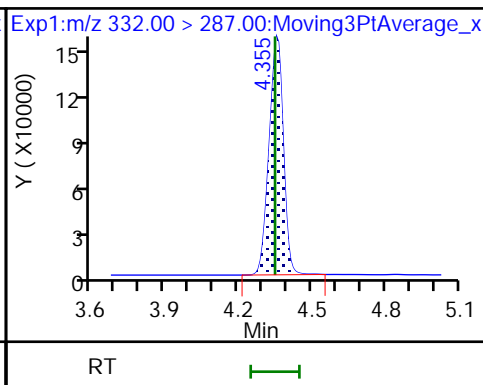
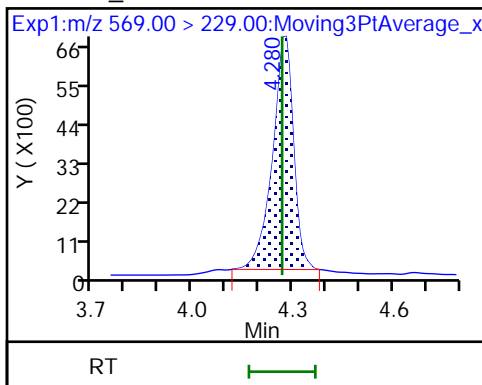
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

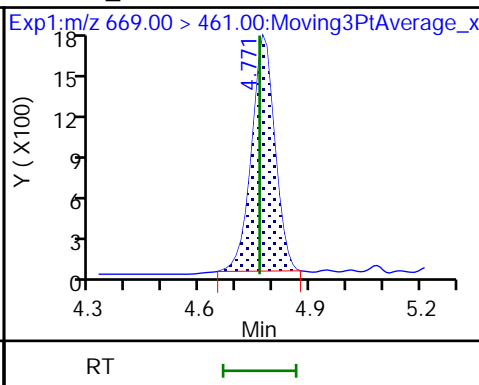
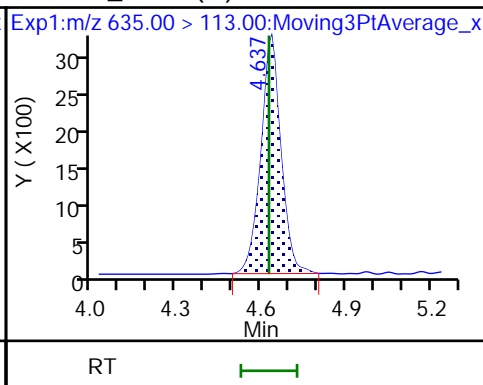
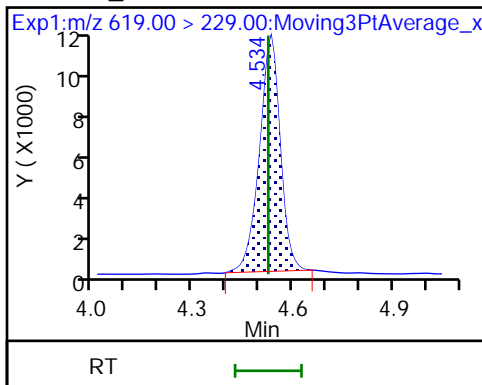
5 BFS_A4B



7 BFS_AB3

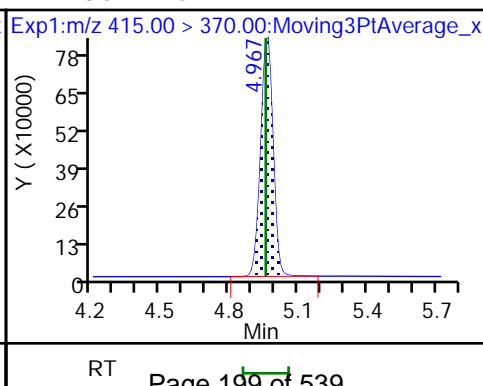
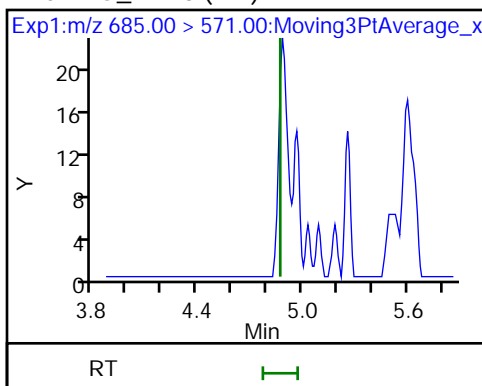
8 BFS_A3B2 (M)

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



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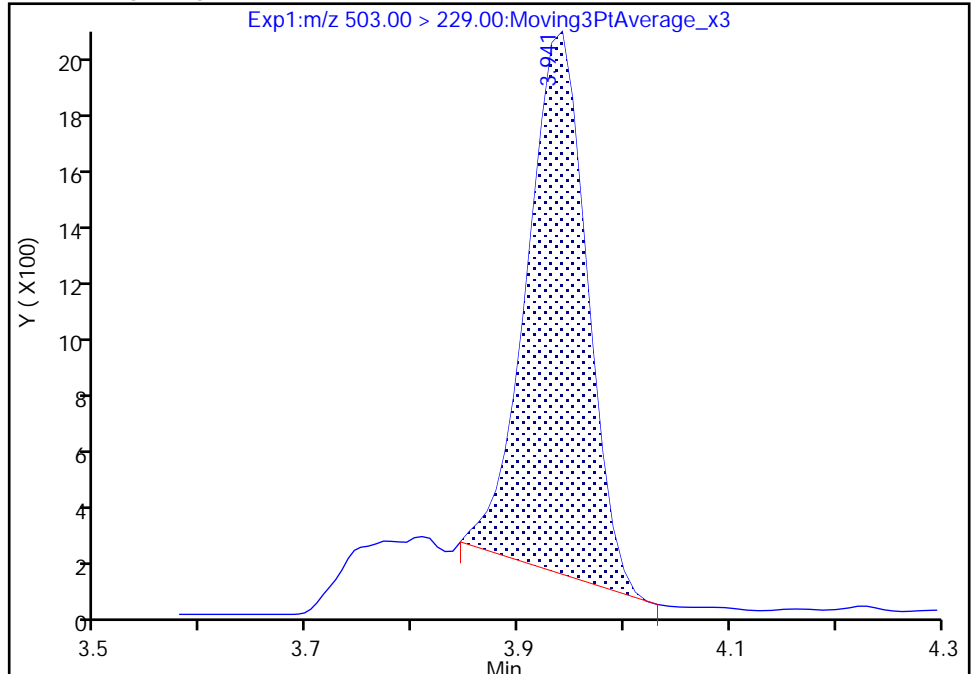
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d
Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

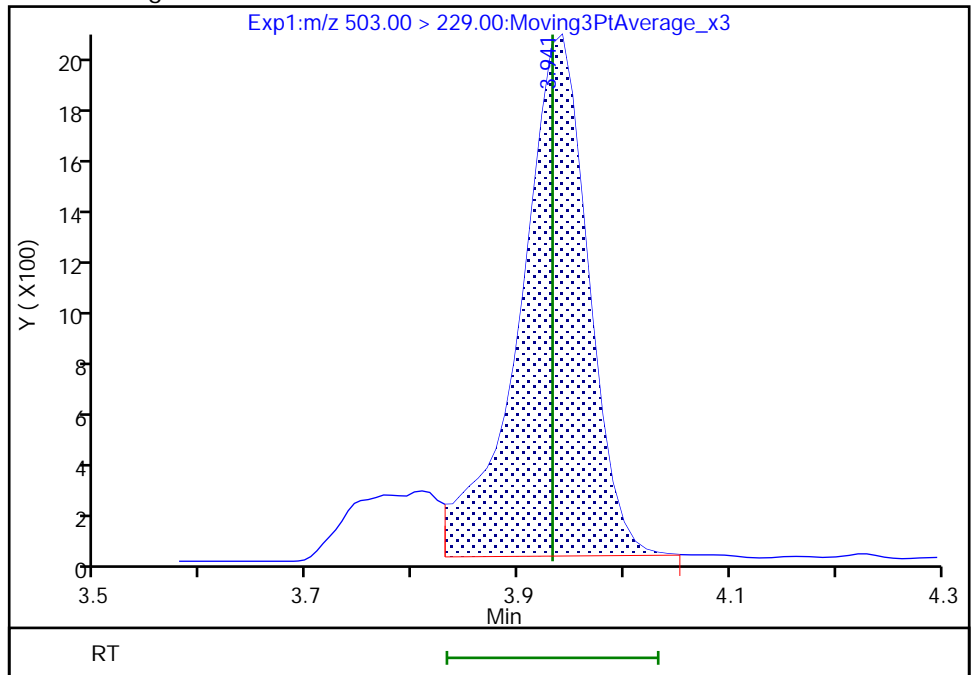
RT: 3.94
Area: 7594
Amount: 0.045580
Amount Units: ng/ml

Processing Integration Results



RT: 3.94
Area: 9195
Amount: 0.048160
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:23:56
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

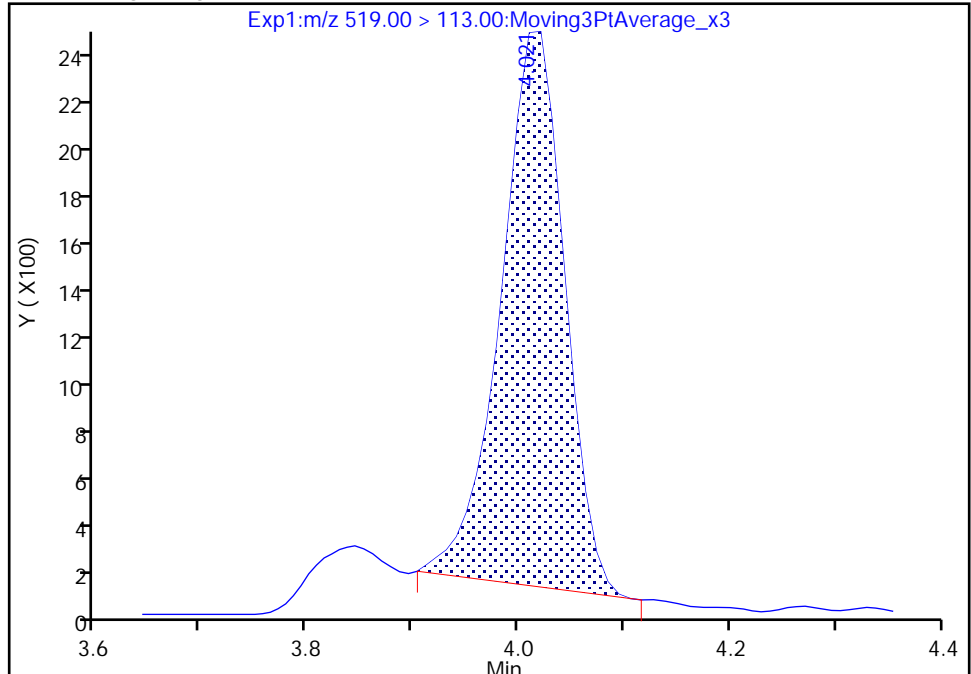
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d
Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

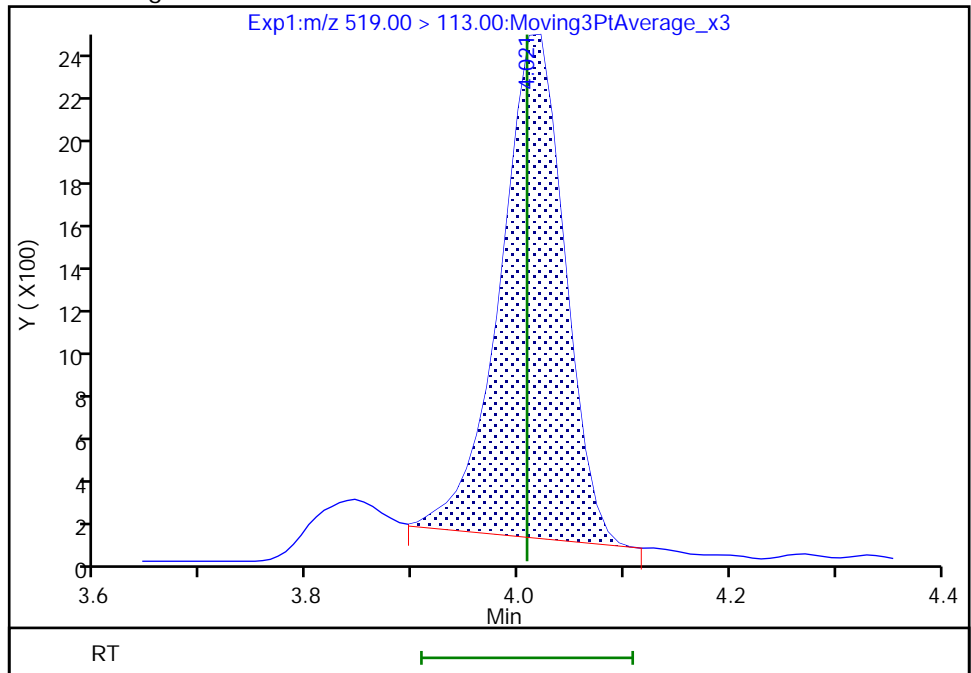
RT: 4.02
Area: 9984
Amount: 0.050809
Amount Units: ng/ml

Processing Integration Results



RT: 4.02
Area: 10131
Amount: 0.051021
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:24:24
Audit Action: Manually Integrated

Audit Reason: Baseline
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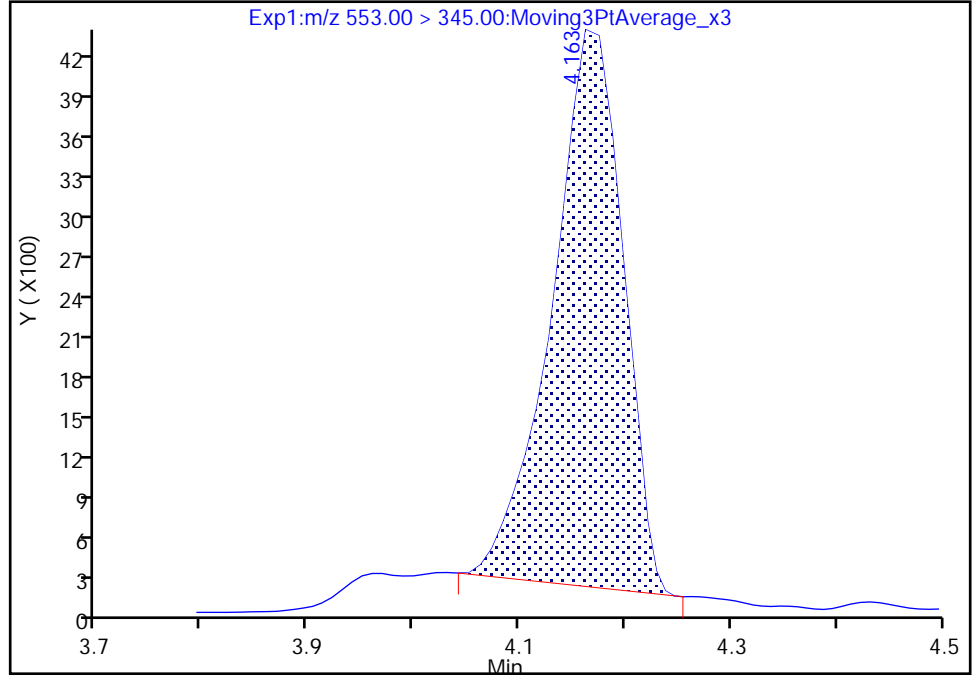
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d
Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

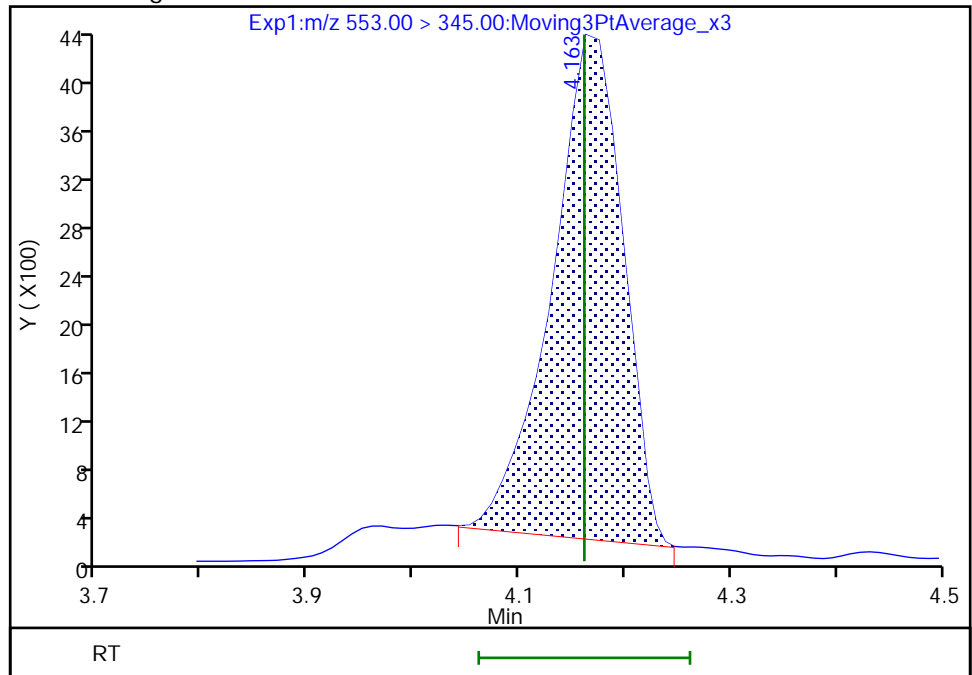
RT: 4.16
Area: 19472
Amount: 0.133204
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 19601
Amount: 0.133539
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:24:19
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

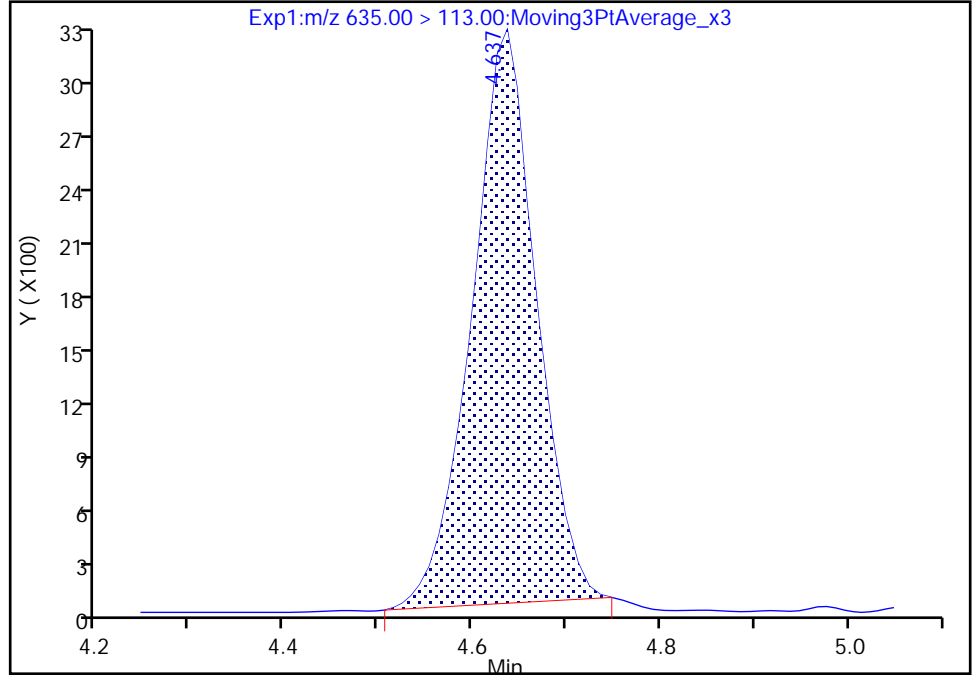
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-01.d
Injection Date: 14-Aug-2022 02:34:33 Instrument ID: 30733
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

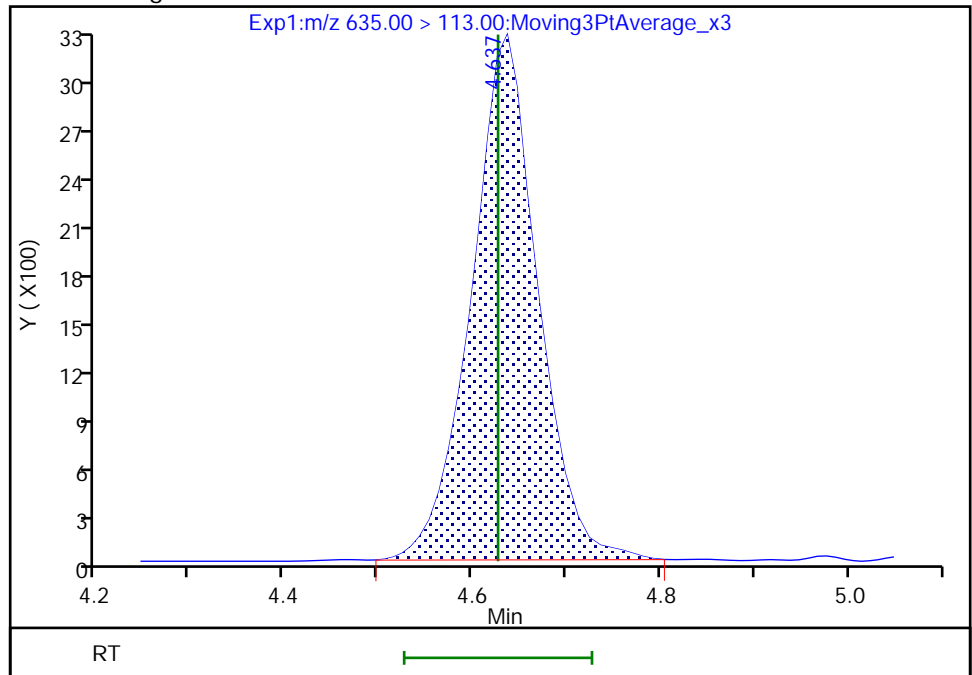
RT: 4.64
Area: 15300
Amount: 0.042666
Amount Units: ng/ml

Processing Integration Results



RT: 4.64
Area: 15996
Amount: 0.066178
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:23:35
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-Aug-2022 02:48:46 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:37 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:23:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.924	3.932	-0.008	0.904	27359	0.1343	101	397
2 BFS_A3B	519.00 > 113.00	4.002	4.008	-0.006	0.922	31708	0.1423	95.3	35.7
3 BFS_B3	553.00 > 345.00	4.154	4.161	-0.007	0.957	63052	0.4657	97.9	52.6
4 BFS_A2B2	569.00 > 229.00	4.266	4.267	-0.001	0.983	89254	0.9854	94.6	87.1 M
D 6 13C3 HFPO-DA	332.00 > 287.00	4.340	4.348	-0.008	0.877	614007	4.96	99.2	705
5 BFS_A4B	585.00 > 113.00	4.349	4.353	-0.004	1.002	22414	0.0762	92.3	127
7 BFS_AB3	619.00 > 229.00	4.518	4.525	-0.007	1.041	139544	1.08	96.8	147
8 BFS_A3B2	635.00 > 113.00	4.619	4.627	-0.008	1.064	47583	0.1921	97.8	248
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.097	20295	0.2438	94.0	122
* 11 13C2 PFOA	415.00 > 370.00	4.949	4.958	-0.009		3086468	5.00		850

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS2_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-02.d

Injection Date: 14-Aug-2022 02:48:46

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

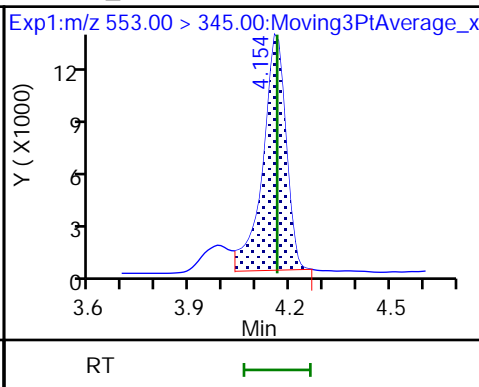
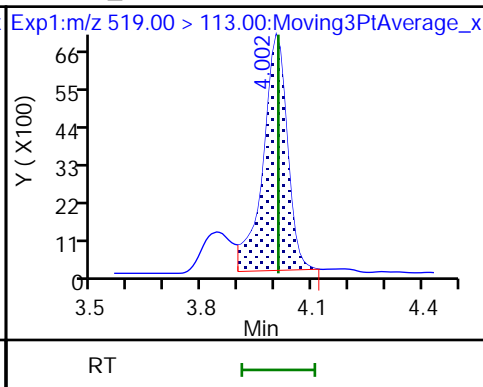
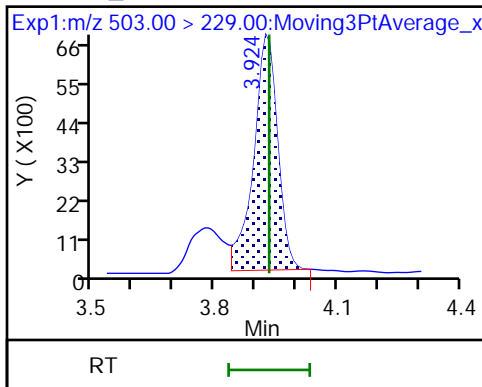
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

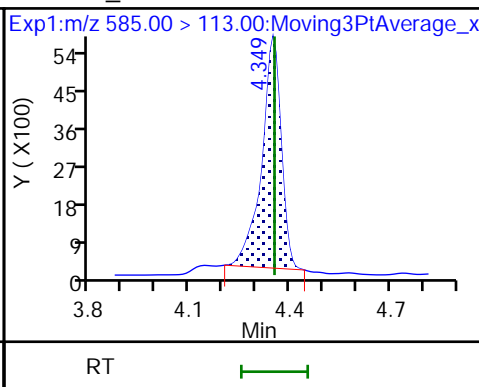
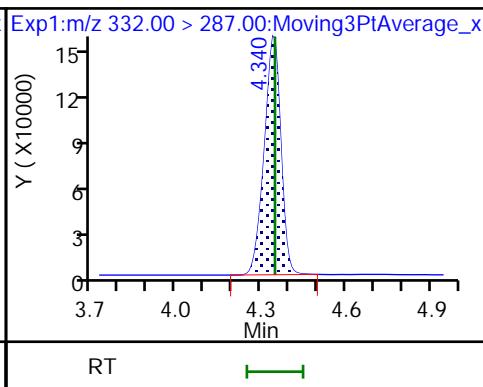
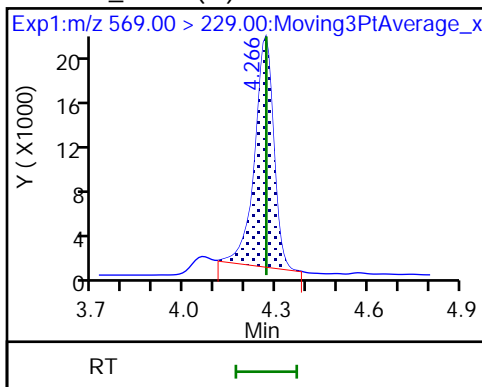
3 BFS_B3



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

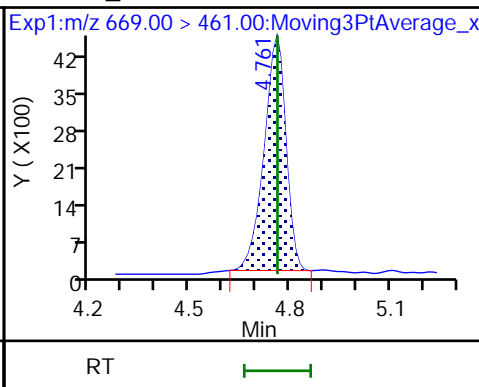
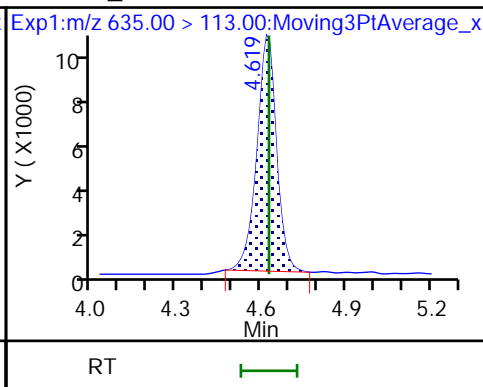
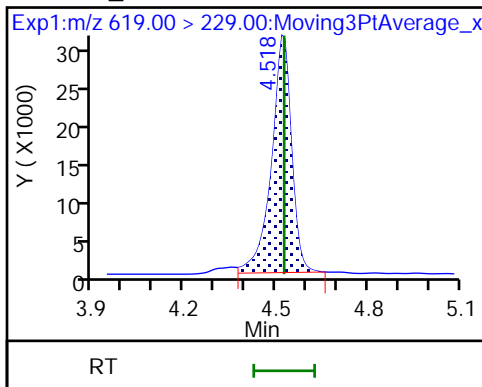
5 BFS_A4B



7 BFS_AB3

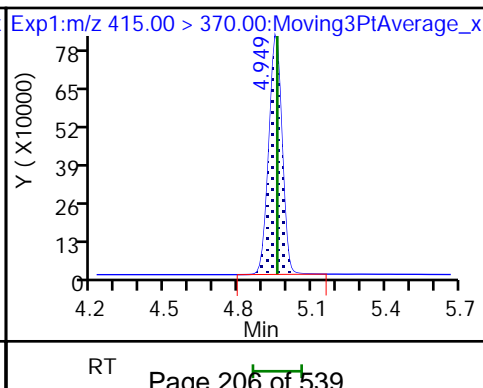
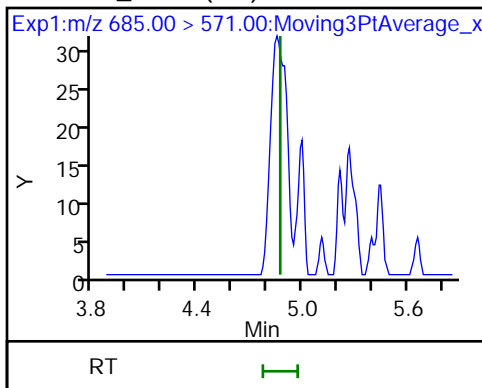
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

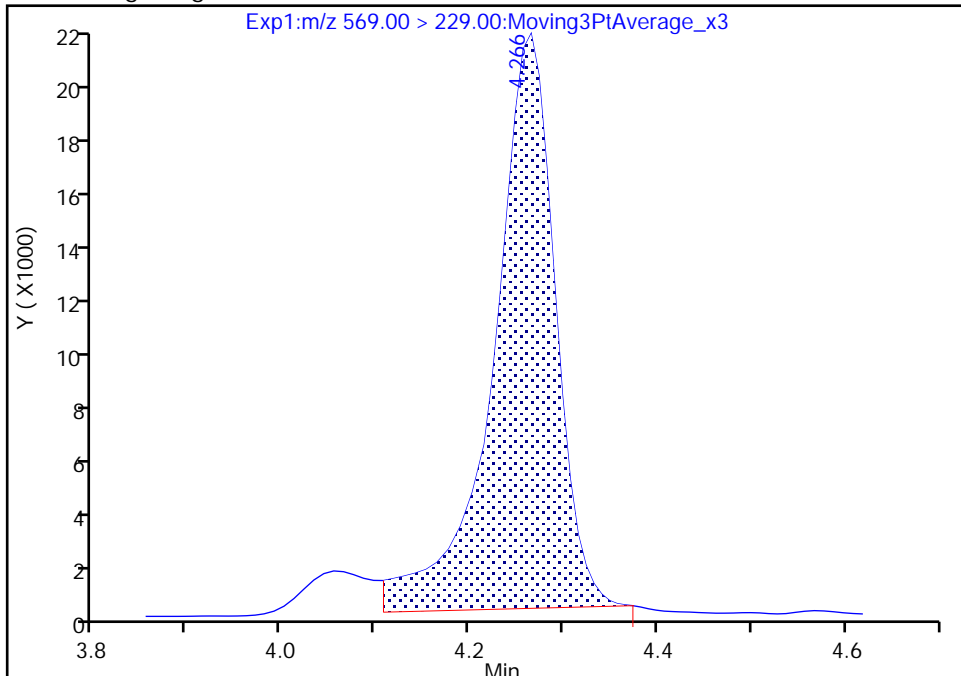
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-02.d
Injection Date: 14-Aug-2022 02:48:46 Instrument ID: 30733
Lims ID: IC CAL 2
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

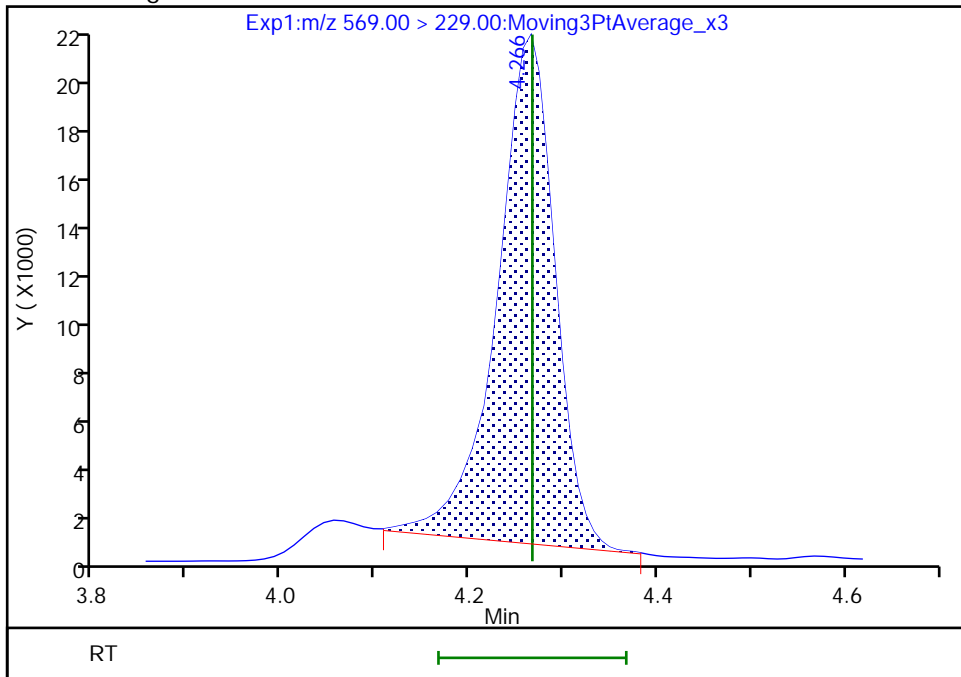
RT: 4.27
Area: 97515
Amount: 0.980656
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 89254
Amount: 0.985357
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:24:52
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-Aug-2022 03:01:20 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:38 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:25:27

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	71092	0.3383	95.0	649
2 BFS_A3B	519.00 > 113.00	4.002	4.008	-0.006	0.920	88676	0.3794	95.3	36.7
3 BFS_B3	553.00 > 345.00	4.165	4.161	0.004	0.958	168263	1.26	99.1	57.1
4 BFS_A2B2	569.00 > 229.00	4.265	4.267	-0.002	0.981	253099	2.68	96.5	75.3
D 6 13C3 HFPO-DA	332.00 > 287.00	4.348	4.348	0.0	0.877	617591	5.20	104	796
5 BFS_A4B	585.00 > 113.00	4.357	4.353	0.004	1.002	59139	0.2003	91.0	131 M
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	395397	3.00	101	213
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	126791	0.5026	95.9	317
9 BFS_B4	669.00 > 461.00	4.771	4.762	0.009	1.097	54508	0.6537	94.5	227
10 BFS_A2B3	685.00 > 571.00	4.864	4.870	-0.006	1.119	390	0.0462	88.2	14.0 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2957623	5.00		856

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS3_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d

Injection Date: 14-Aug-2022 03:01:20

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

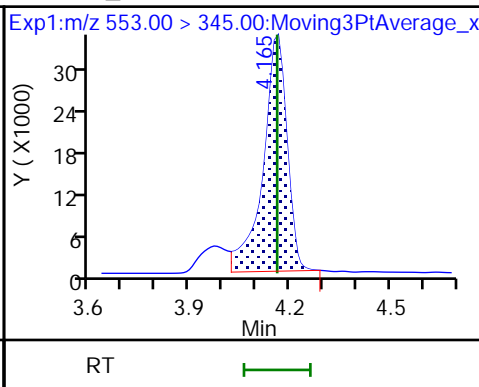
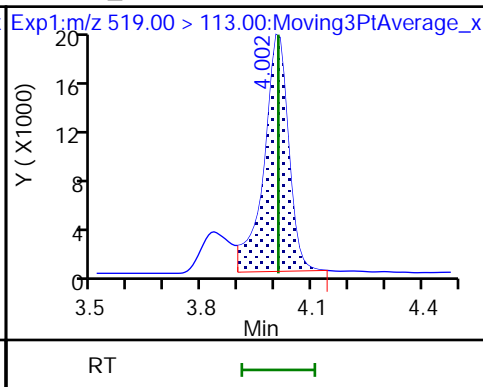
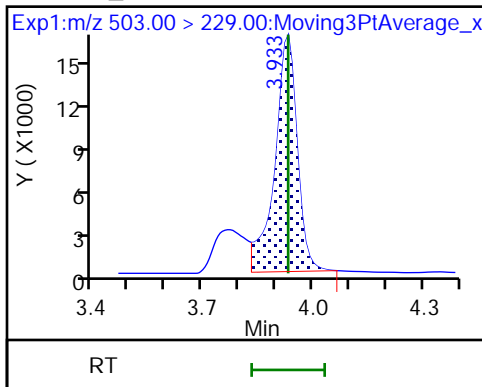
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

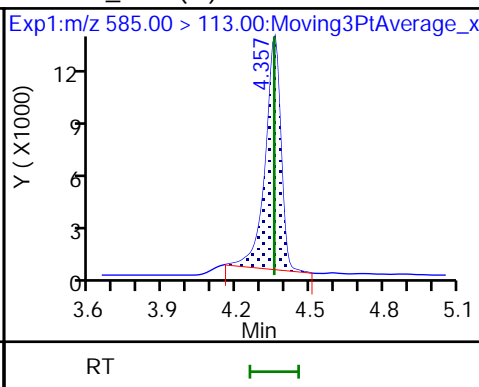
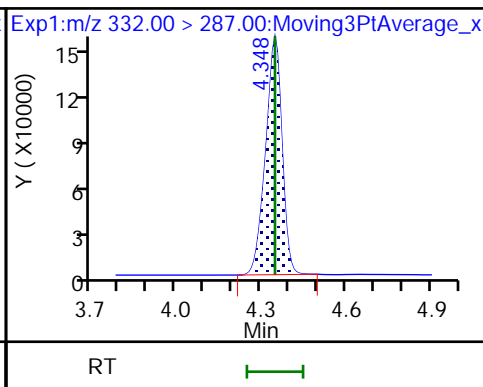
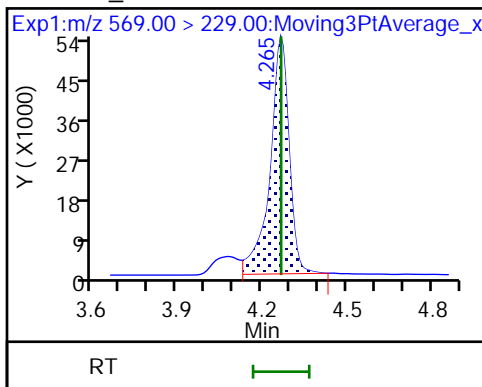
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

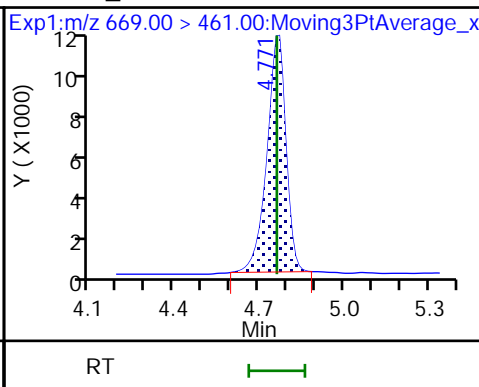
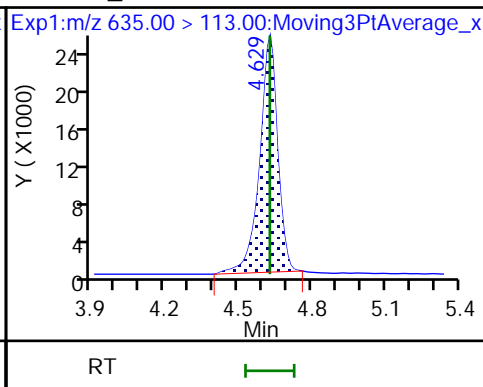
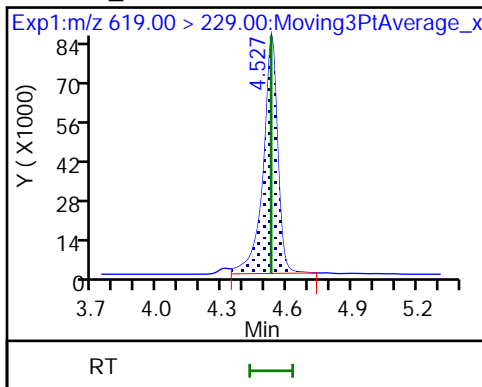
5 BFS_A4B (M)



7 BFS_AB3

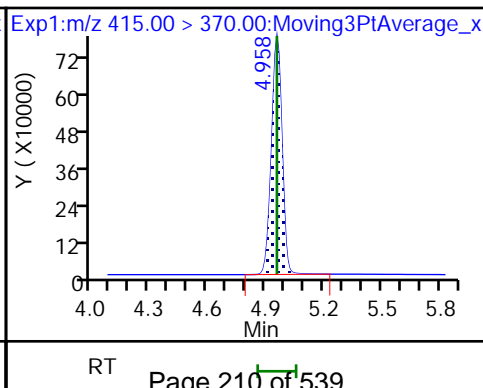
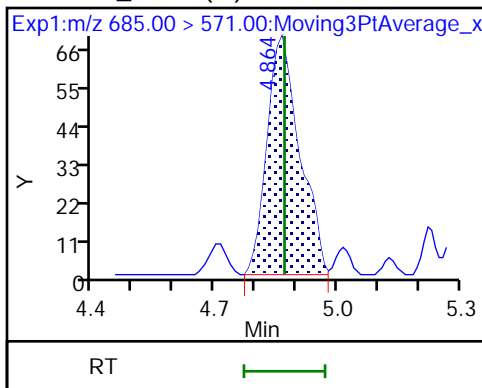
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

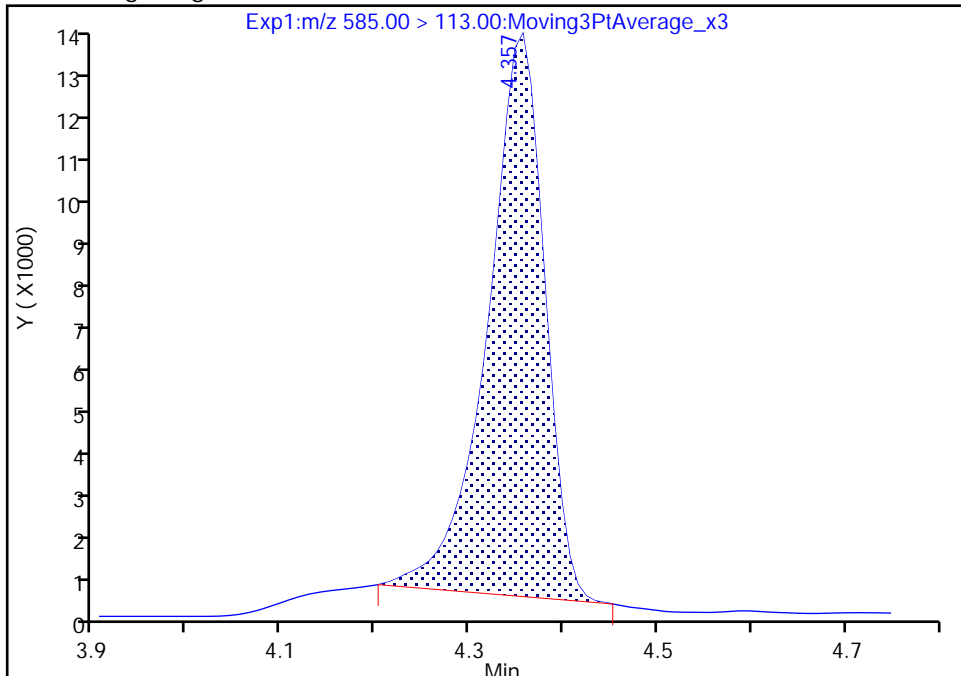
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d
Injection Date: 14-Aug-2022 03:01:20 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

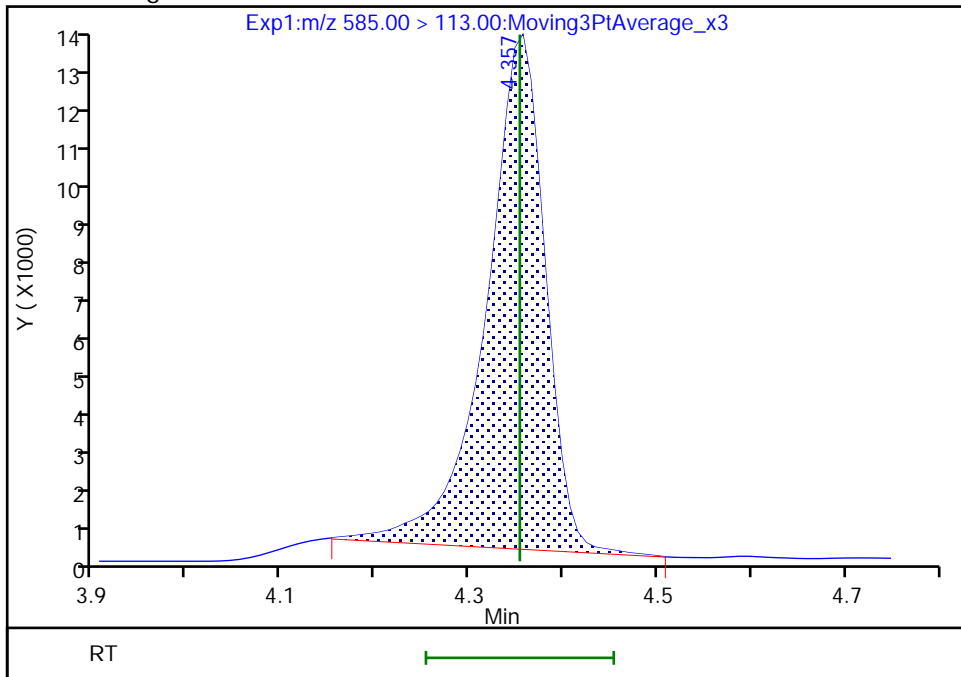
RT: 4.36
Area: 56012
Amount: 0.190525
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 59139
Amount: 0.200275
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:25:13
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

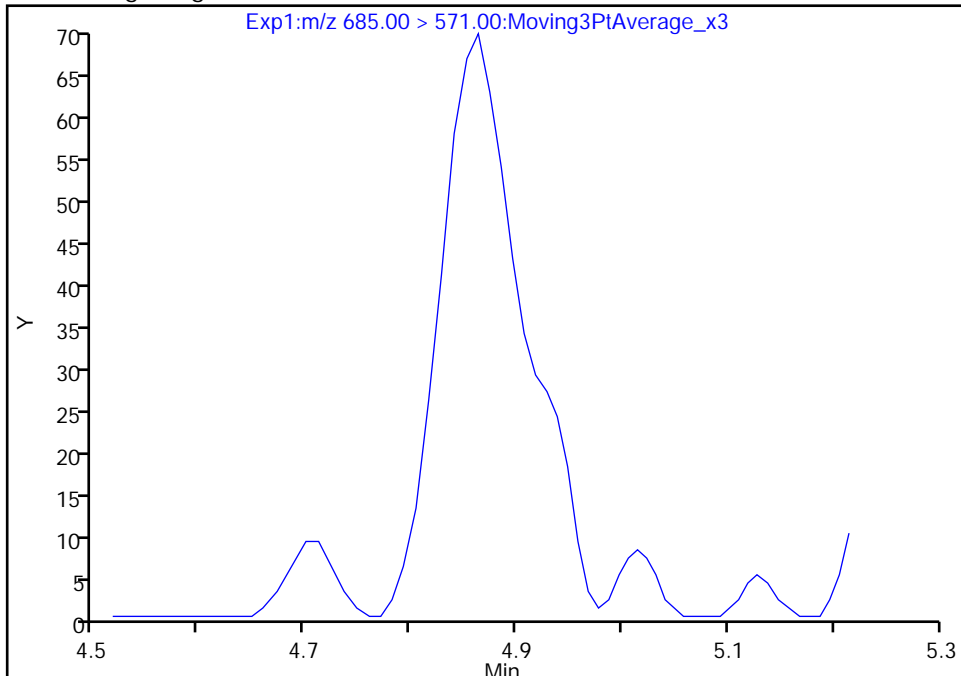
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-03.d
Injection Date: 14-Aug-2022 03:01:20 Instrument ID: 30733
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

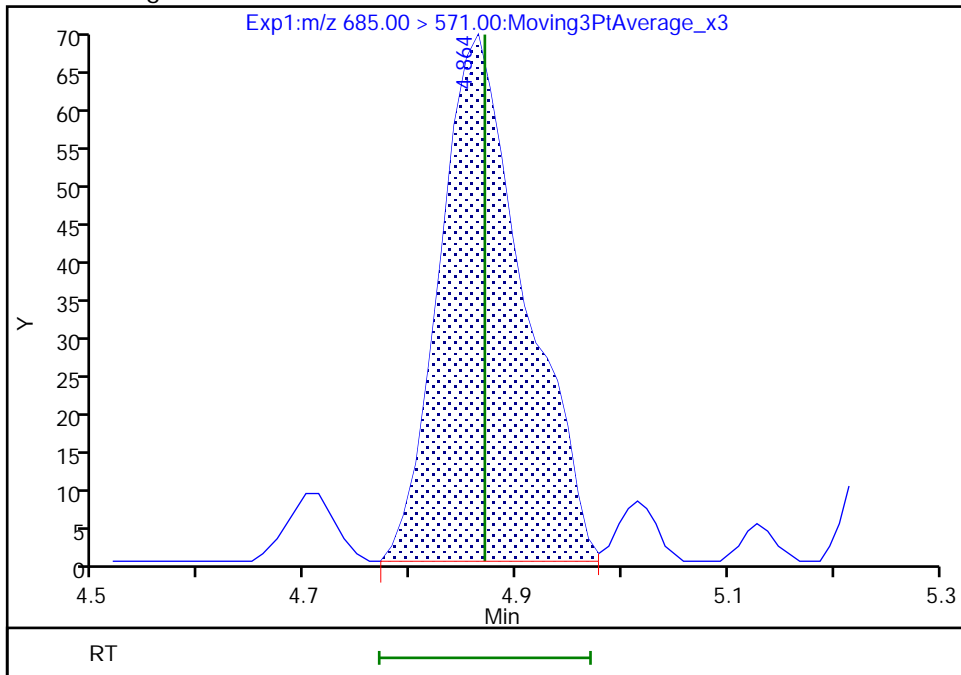
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 390
Amount: 0.046184
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:25:22
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-Aug-2022 03:13:58 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:39 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:25:43

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.926	3.932	-0.006	0.904	185976	0.8515	95.6	943
2 BFS_A3B	519.00 > 113.00	4.004	4.008	-0.004	0.922	235259	0.9636	96.8	38.6
3 BFS_B3	553.00 > 345.00	4.157	4.161	-0.004	0.957	427569	3.12	98.5	59.2
4 BFS_A2B2	569.00 > 229.00	4.260	4.267	-0.007	0.981	670538	6.81	98.2	97.2
D 6 13C3 HFPO-DA	332.00 > 287.00	4.344	4.348	-0.004	0.876	635578	5.04	101	801
5 BFS_A4B	585.00 > 113.00	4.352	4.353	-0.001	1.002	168162	0.5538	101	130
7 BFS_AB3	619.00 > 229.00	4.523	4.525	-0.002	1.041	1010634	7.42	99.8	448
8 BFS_A3B2	635.00 > 113.00	4.624	4.627	-0.003	1.065	347438	1.33	102	432
9 BFS_B4	669.00 > 461.00	4.758	4.762	-0.004	1.095	145983	1.70	98.6	343
10 BFS_A2B3	685.00 > 571.00	4.862	4.869	-0.007	1.119	1085	0.1264	96.5	47.0
									M
									M
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		3145206	5.00		906

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS4_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-04.d

Injection Date: 14-Aug-2022 03:13:58

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

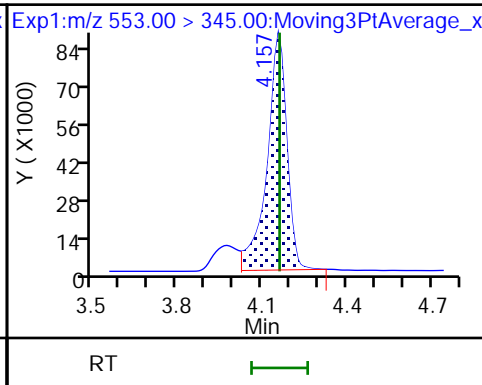
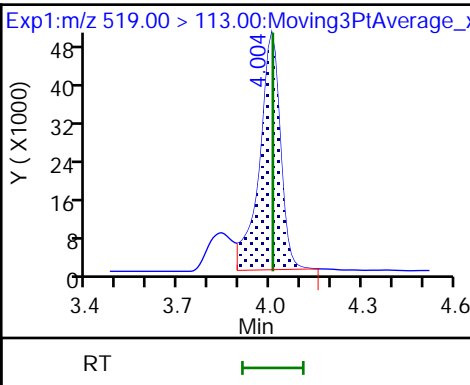
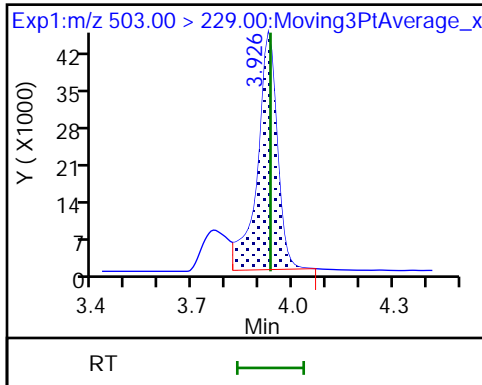
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

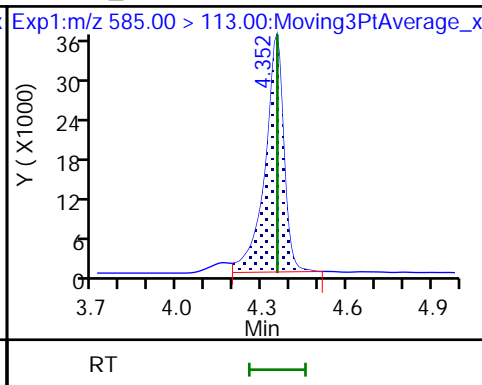
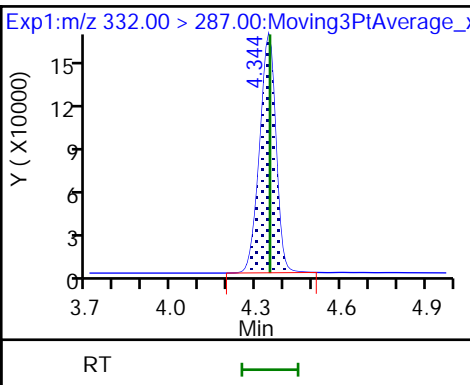
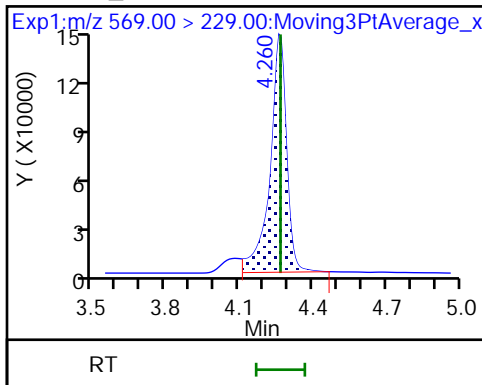
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

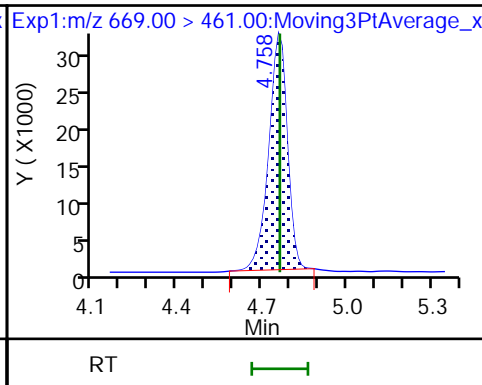
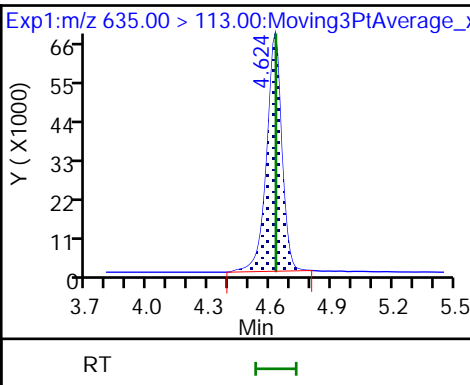
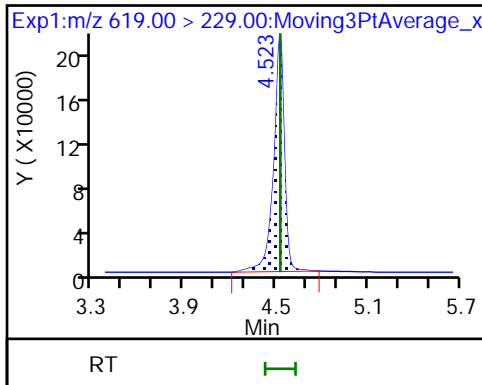
5 BFS_A4B



7 BFS_AB3

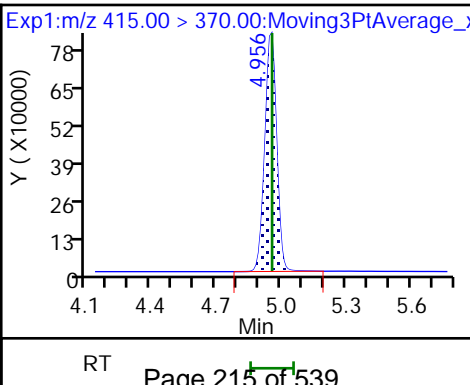
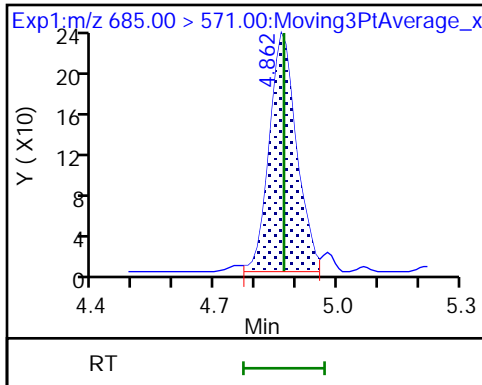
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

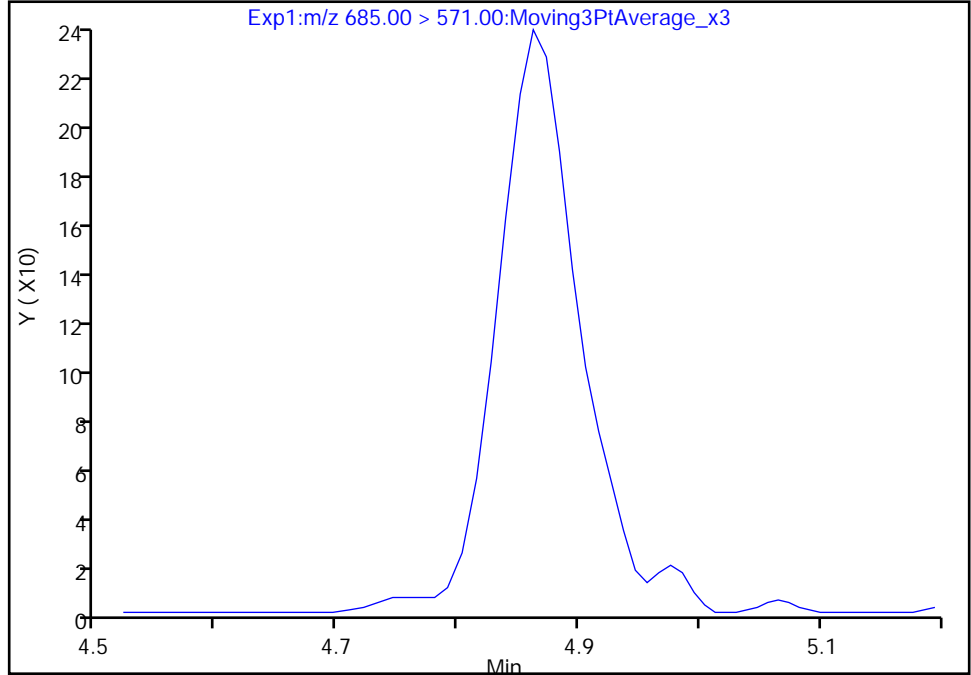
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-04.d
Injection Date: 14-Aug-2022 03:13:58 Instrument ID: 30733
Lims ID: IC CAL 4
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

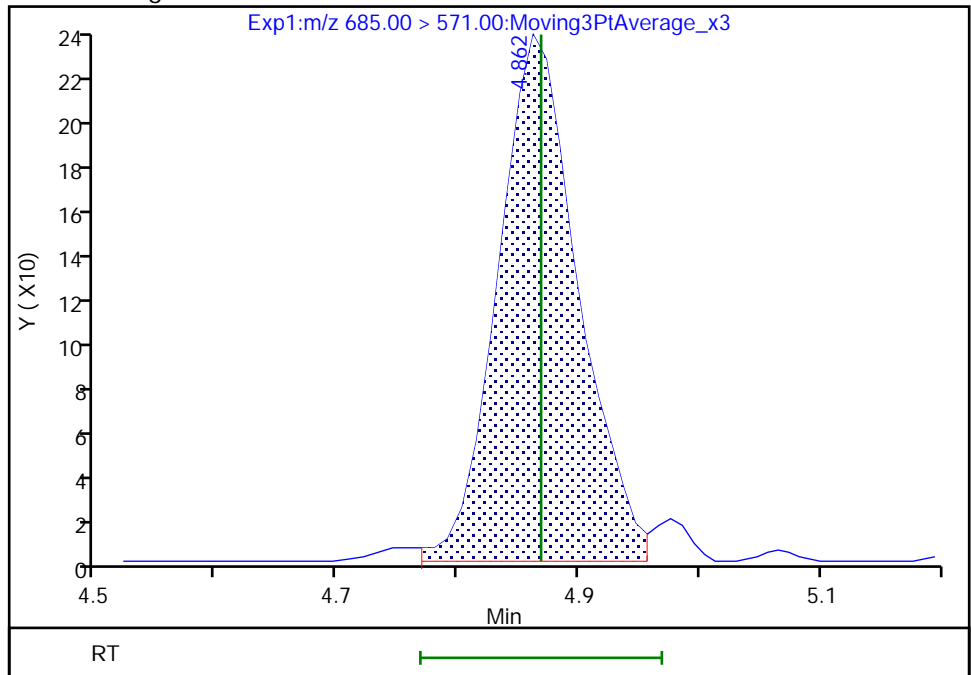
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 1085
Amount: 0.126424
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:25:39
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 14-Aug-2022 03:26:35 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:40 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:25:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	358039	1.69	95.1	804
2 BFS_A3B	519.00 > 113.00	4.013	4.008	0.005	0.923	467147	1.97	99.2	28.9
3 BFS_B3	553.00 > 345.00	4.165	4.161	0.004	0.958	843412	6.40	101	44.4
4 BFS_A2B2	569.00 > 229.00	4.265	4.267	-0.002	0.981	1312413	13.8	99.3	62.1
D 6 13C3 HFPO-DA	332.00 > 287.00	4.349	4.348	0.001	0.877	613094	5.04	101	683
5 BFS_A4B	585.00 > 113.00	4.357	4.353	0.004	1.002	337168	1.15	105	84.9
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	2083219	15.9	107	565
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	678875	2.70	103	492
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.095	303456	3.68	106	436
10 BFS_A2B3	685.00 > 571.00	4.864	4.869	-0.005	1.119	2238	0.2714	104	60.4
									M
									M
* 11 13C2 PFOA	415.00 > 370.00	4.959	4.958	0.001		3033281	5.00		833

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-05.d

Injection Date: 14-Aug-2022 03:26:35

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

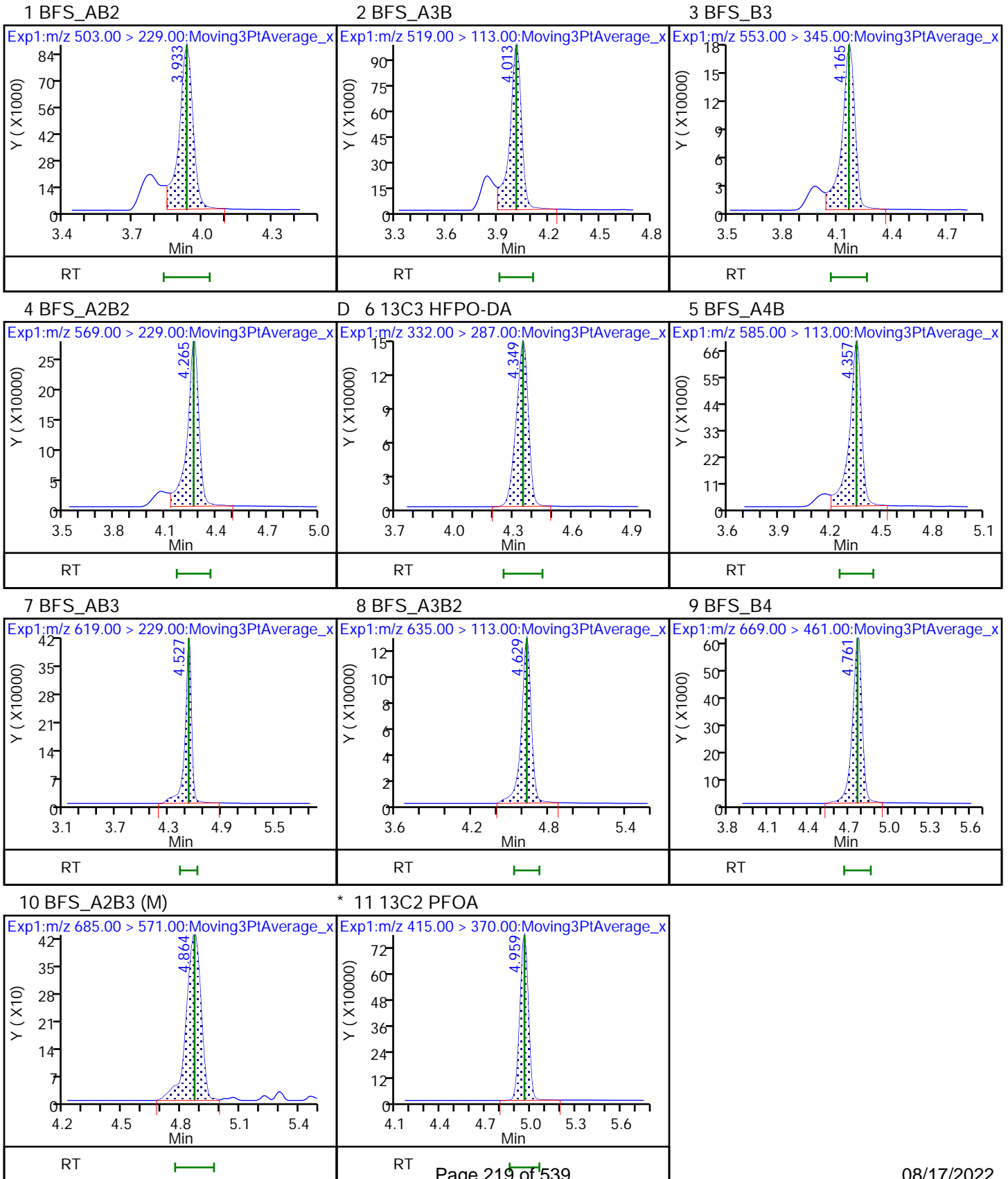
Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

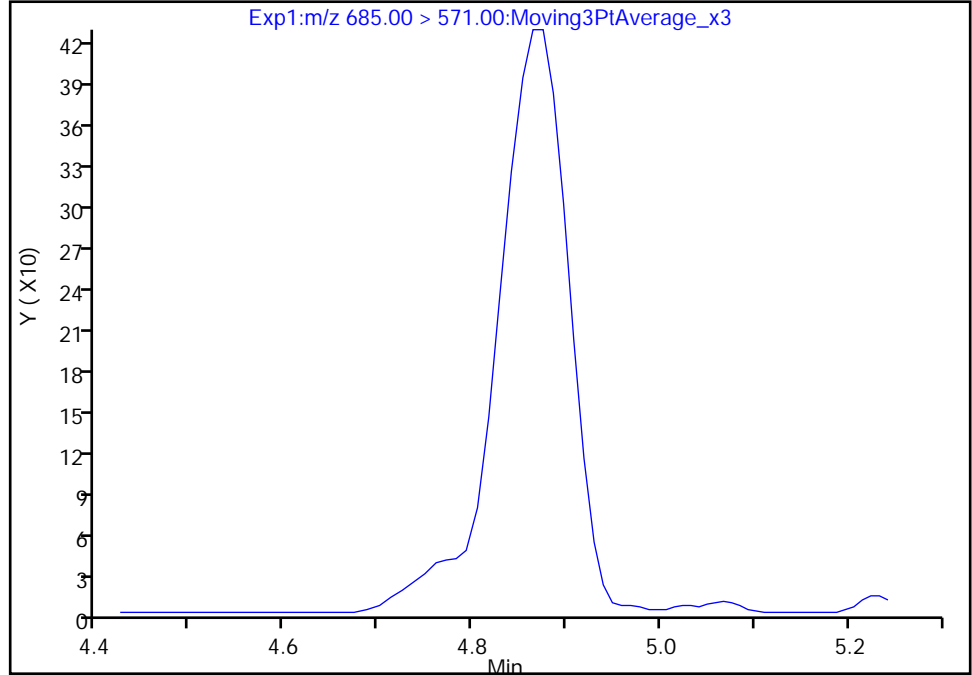
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-05.d
Injection Date: 14-Aug-2022 03:26:35 Instrument ID: 30733
Lims ID: ICISAV CAL 5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

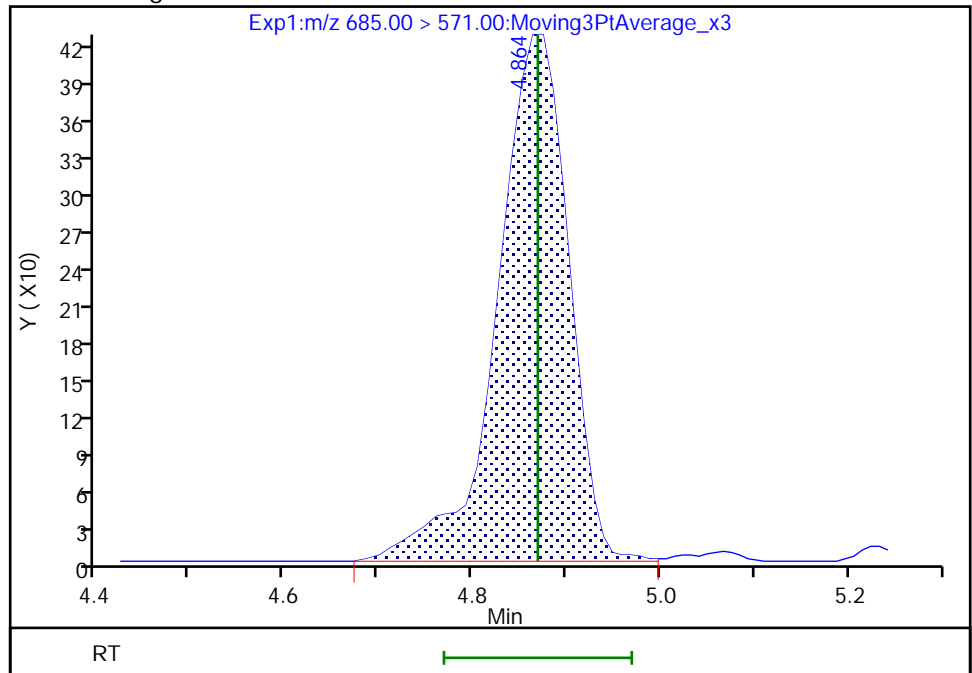
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 2238
Amount: 0.271386
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:25:53
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-Aug-2022 03:39:09 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:41 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.905	928818	4.42	99.3	1219
2 BFS_A3B	519.00 > 113.00	4.011	4.008	0.003	0.923	1215843	5.17	104	39.4
3 BFS_B3	553.00 > 345.00	4.163	4.161	0.002	0.958	2188545	16.8	106	64.4
4 BFS_A2B2	569.00 > 229.00	4.264	4.267	-0.003	0.981	3349872	35.6	103	524
D 6 13C3 HFPO-DA	332.00 > 287.00	4.347	4.348	-0.001	0.877	607823	4.90	98.1	706
5 BFS_A4B	585.00 > 113.00	4.355	4.353	0.002	1.002	837391	2.88	105	323
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.041	4887607	37.8	102	615
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.064	1676878	6.74	103	521
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.095	733541	8.99	104	515
10 BFS_A2B3	685.00 > 571.00	4.875	4.869	0.006	1.121	5813	0.7125	109	188 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3089323	5.00		887

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-06.d

Injection Date: 14-Aug-2022 03:39:09

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

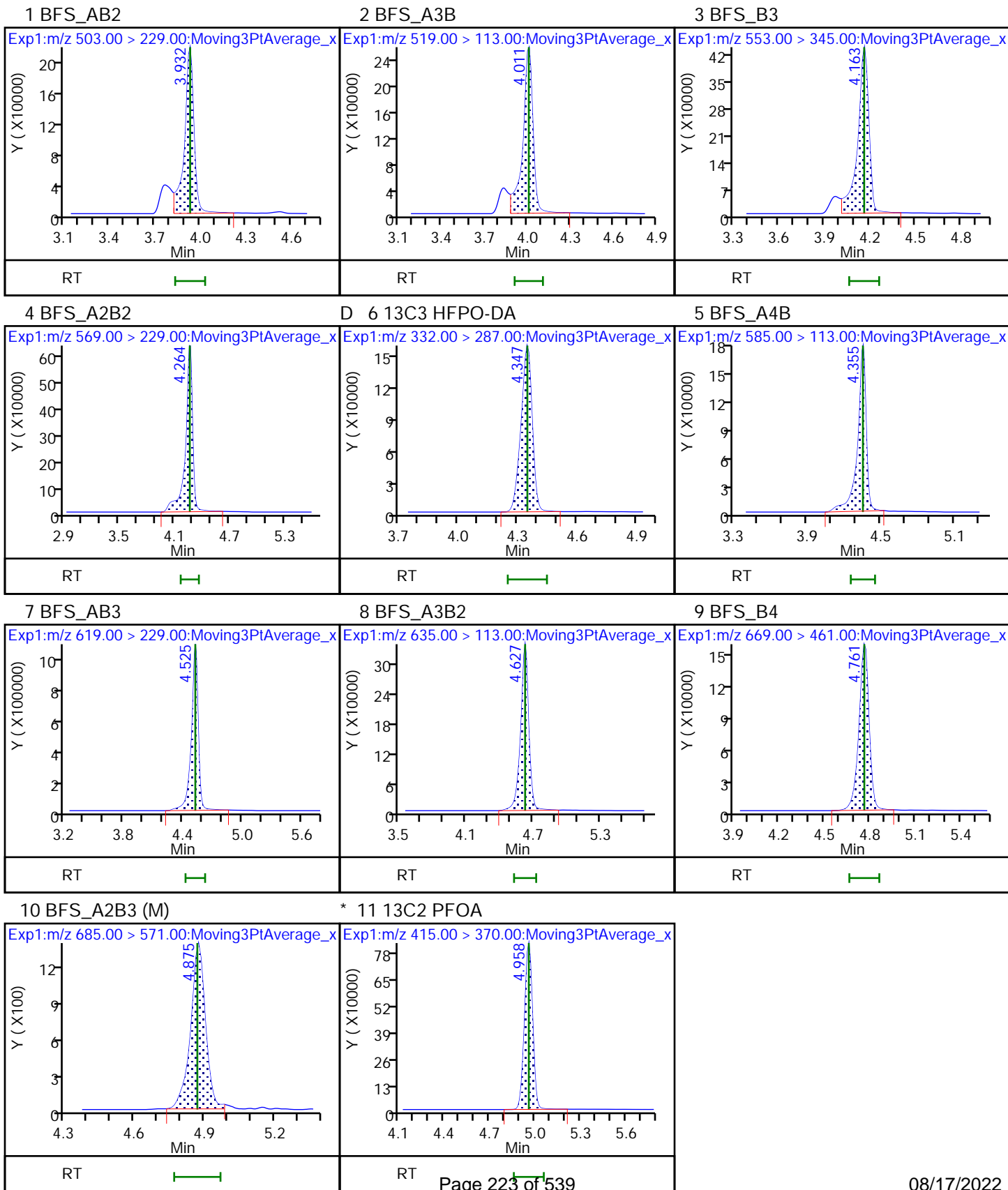
Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



Eurofins Lancaster Laboratories Environment Testing, LLC

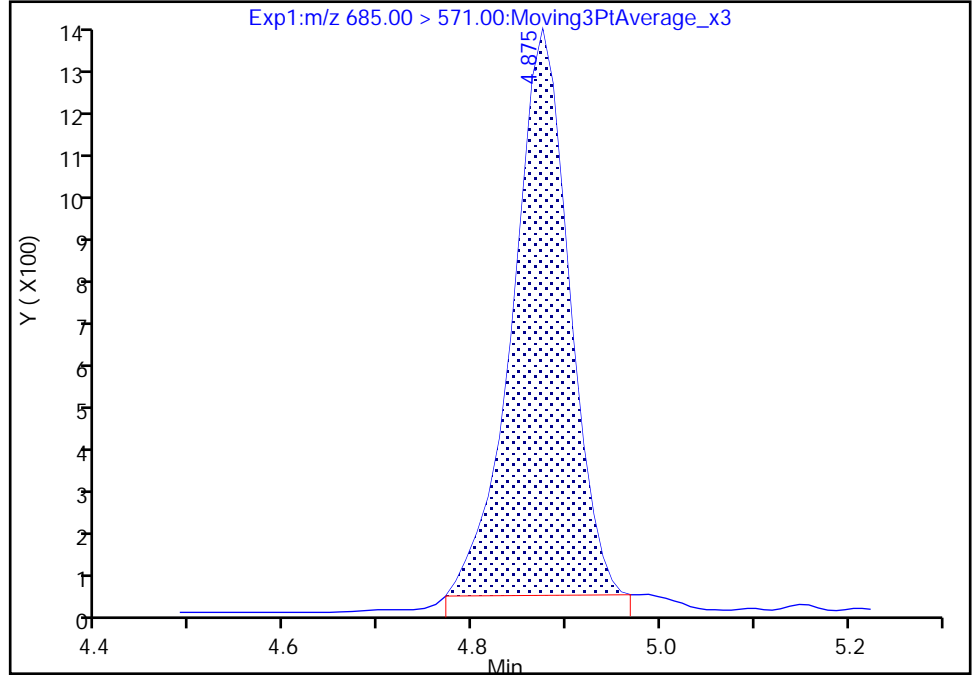
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-06.d
Injection Date: 14-Aug-2022 03:39:09 Instrument ID: 30733
Lims ID: IC CAL 6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

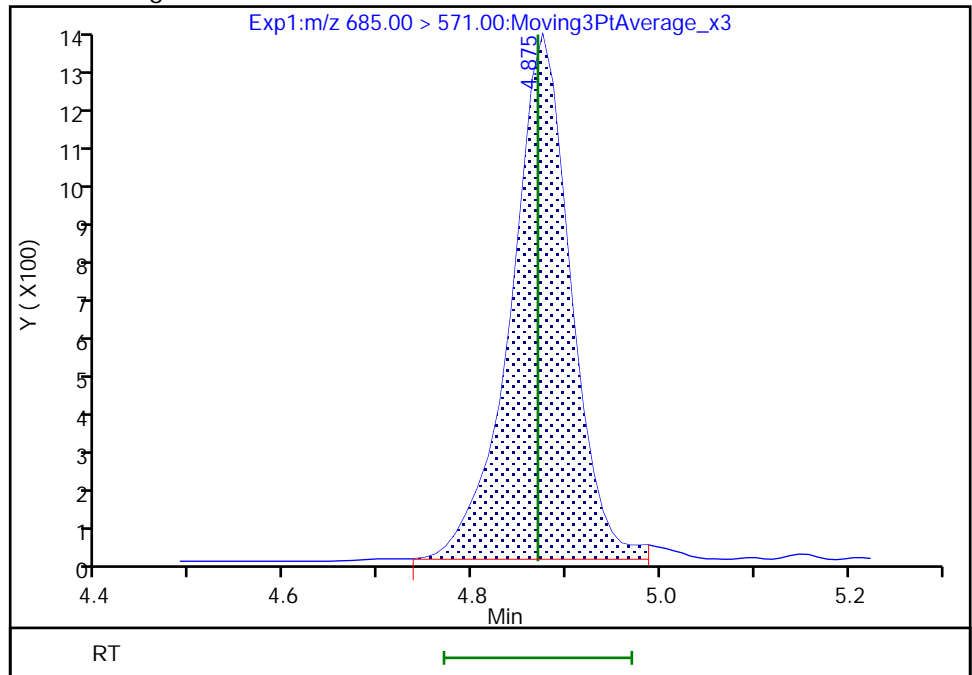
RT: 4.87
Area: 5354
Amount: 0.661989
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 5813
Amount: 0.712511
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:26:12
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 14-Aug-2022 03:51:43 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:42 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:30

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.935	3.932	0.003	0.904	1966651	9.39	105	1349
2 BFS_A3B	519.00 > 113.00	4.004	4.008	-0.004	0.920	2393692	10.2	102	39.4
3 BFS_B3	553.00 > 345.00	4.157	4.161	-0.004	0.955	4407906	33.9	107	64.4
4 BFS_A2B2	569.00 > 229.00	4.269	4.267	0.002	0.981	7057685	75.9	109	467
D 6 13C3 HFPO-DA	332.00 > 287.00	4.352	4.348	0.004	0.878	605647	4.96	99.3	698
5 BFS_A4B	585.00 > 113.00	4.352	4.353	-0.001	1.000	1755466	6.07	110	387
7 BFS_AB3	619.00 > 229.00	4.522	4.525	-0.003	1.039	9534882	74.8	101	580
8 BFS_A3B2	635.00 > 113.00	4.624	4.627	-0.003	1.062	3247924	13.2	101	560
9 BFS_B4	669.00 > 461.00	4.758	4.762	-0.004	1.093	1419837	17.5	101	510
10 BFS_A2B3	685.00 > 571.00	4.873	4.870	0.003	1.120	11331	1.39	106	146 M
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		3041570	5.00		872

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-07.d

Injection Date: 14-Aug-2022 03:51:43

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

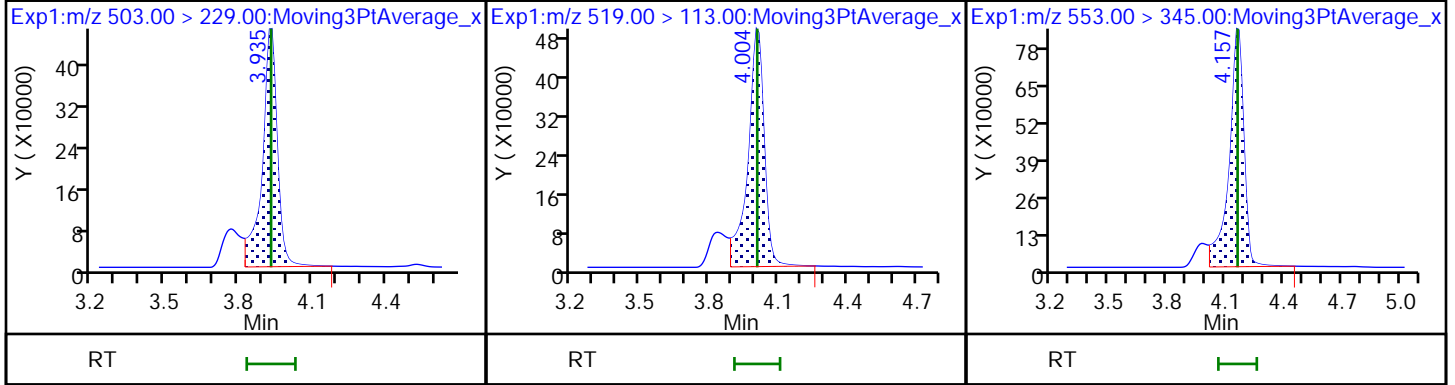
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

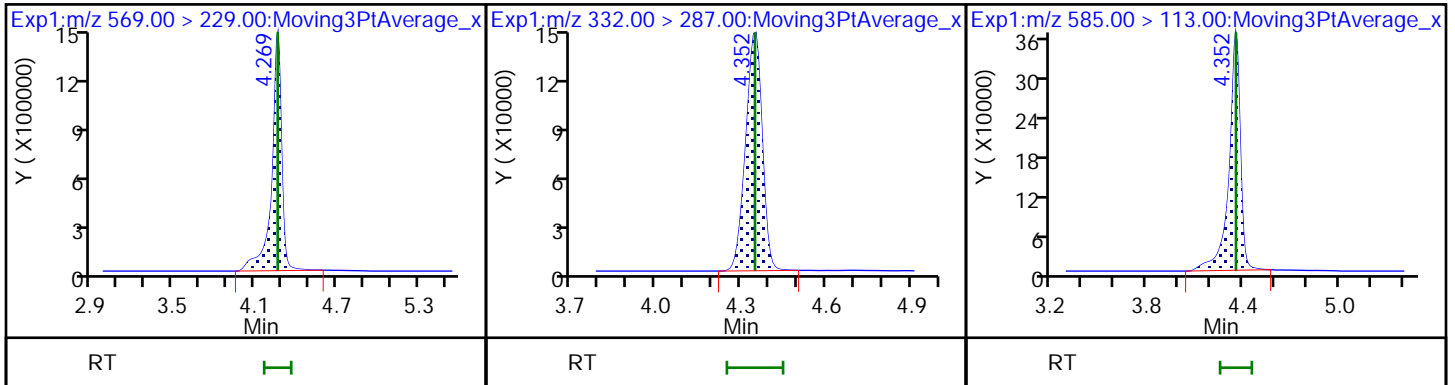
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

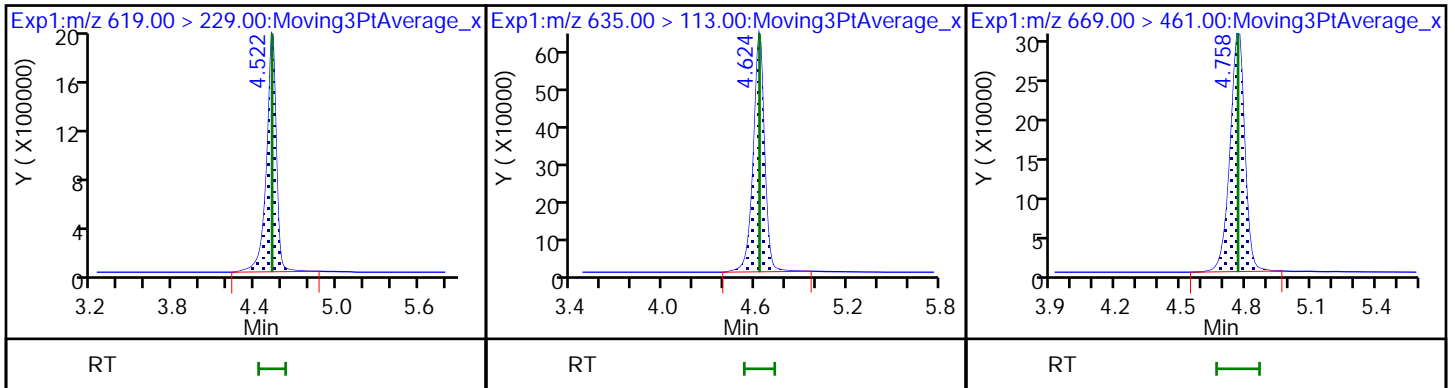
5 BFS_A4B



7 BFS_AB3

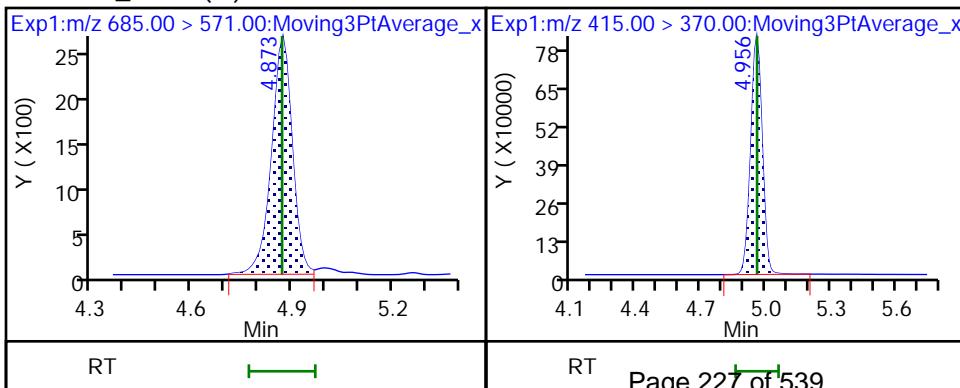
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

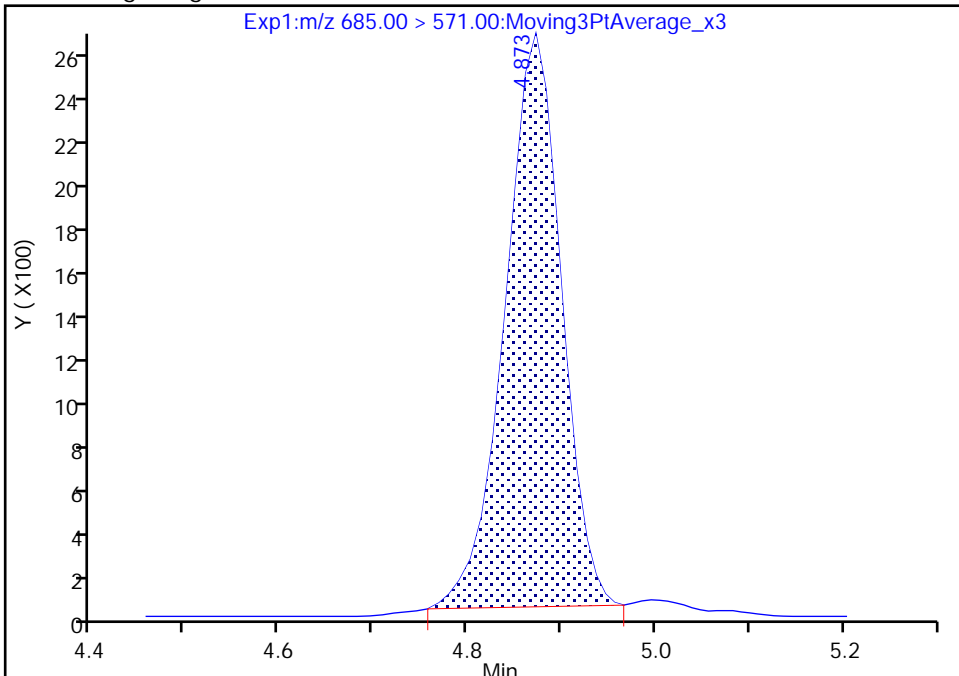
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-07.d
Injection Date: 14-Aug-2022 03:51:43 Instrument ID: 30733
Lims ID: IC CAL 7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

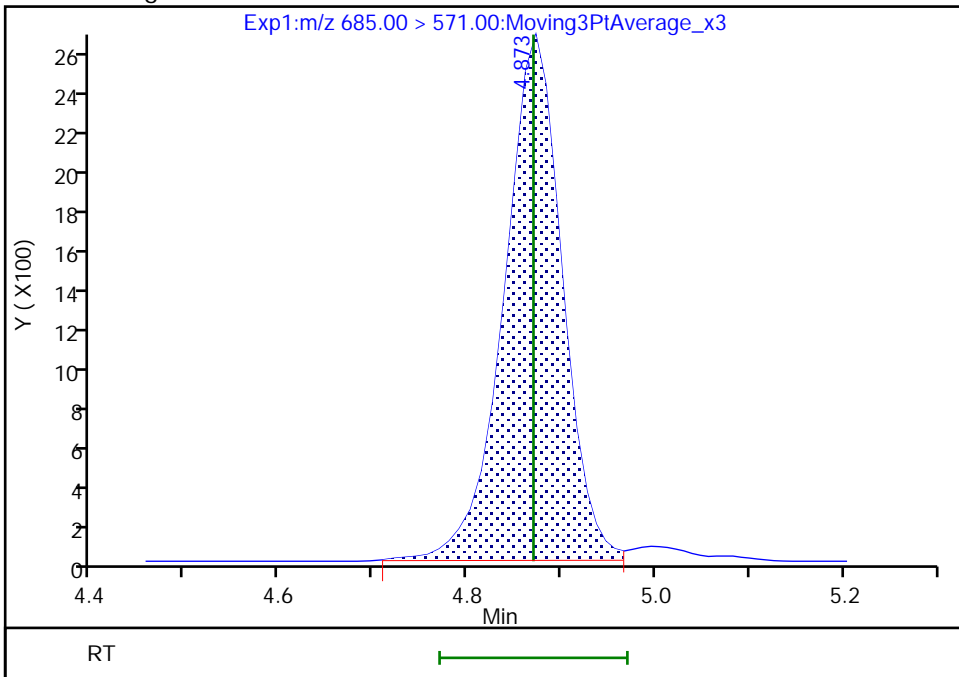
RT: 4.87
Area: 10802
Amount: 1.333783
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 11331
Amount: 1.394737
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:26:26
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 228 of 539

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-08.d
 Lims ID: IC CAL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 14-Aug-2022 04:04:18 ALS Bottle#: 9 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 8
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:43 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:36

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.903	3673322	17.6	98.7	1169
2 BFS_A3B	519.00 > 113.00	4.011	4.008	0.003	0.921	4707461	20.1	101	32.1
3 BFS_B3	553.00 > 345.00	4.163	4.161	0.002	0.956	8493131	65.5	103	40.1
4 BFS_A2B2	569.00 > 229.00	4.272	4.267	0.005	0.981	12578256	137.4	99.0	79.1
D 6 13C3 HFPO-DA	332.00 > 287.00	4.355	4.348	0.007	0.878	604361	4.87	97.3	740
5 BFS_A4B	585.00 > 113.00	4.355	4.353	0.002	1.000	3307688	11.5	104	77.5
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.039	18308007	147.3	99.0	594
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.062	6417526	26.4	101	561
9 BFS_B4	669.00 > 461.00	4.760	4.762	-0.002	1.093	2785380	34.7	100	566
10 BFS_A2B3	685.00 > 571.00	4.874	4.870	0.004	1.119	21575	2.66	102	282
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3095120	5.00		874

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS8_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-08.d

Injection Date: 14-Aug-2022 04:04:18

Instrument ID: 30733

Lims ID: IC CAL 8

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

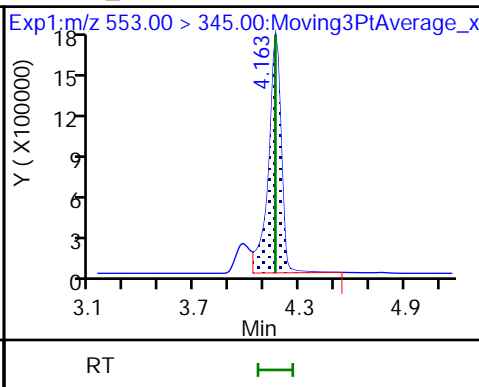
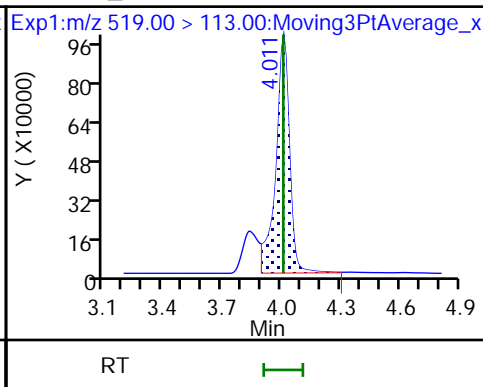
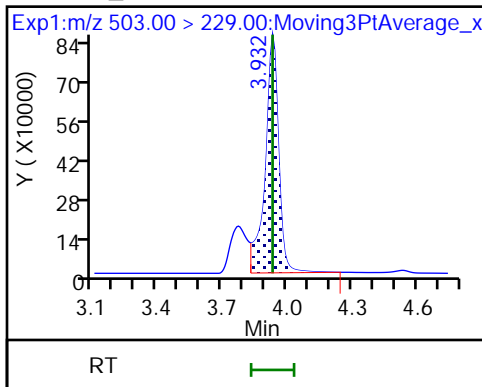
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

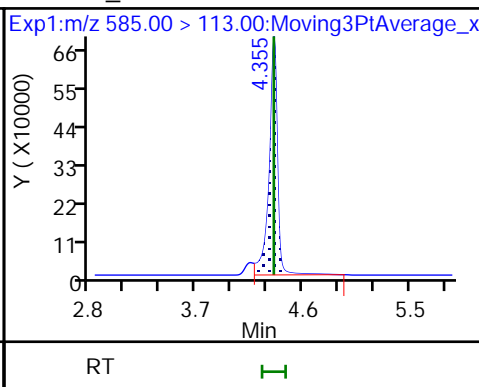
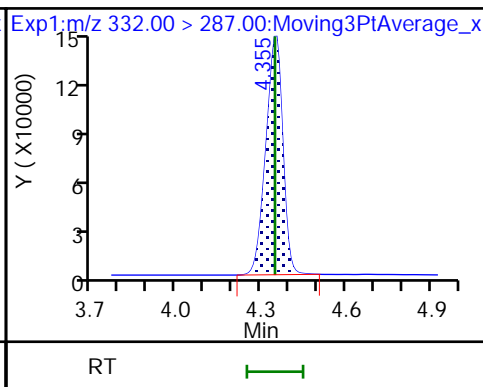
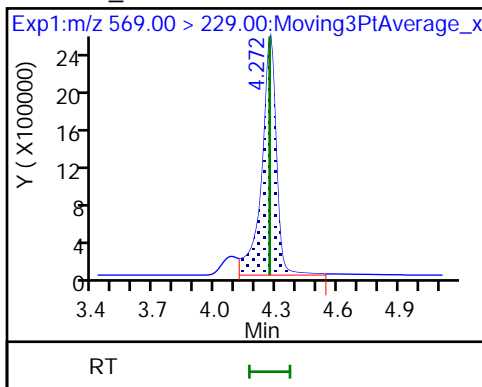
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

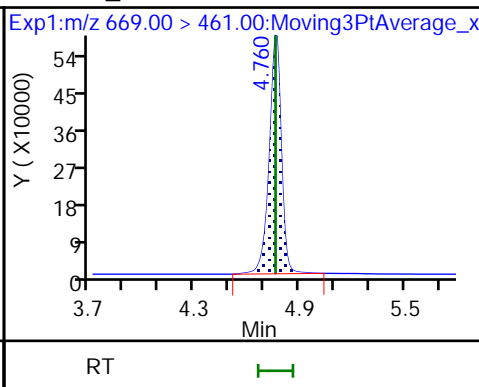
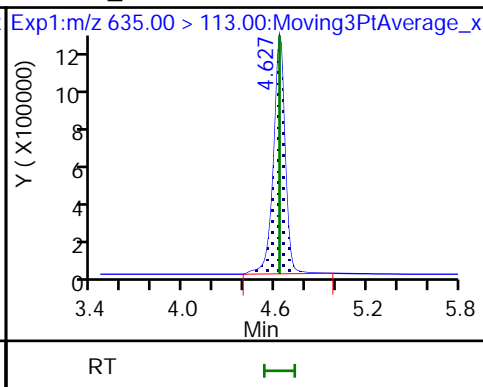
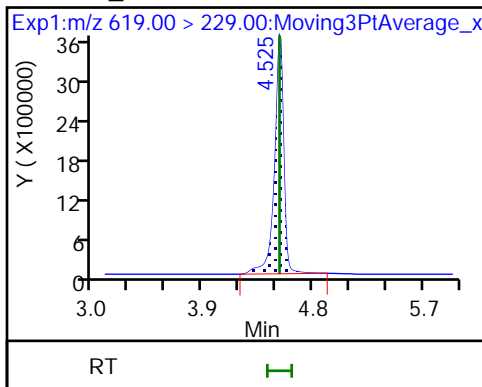
5 BFS_A4B



7 BFS_AB3

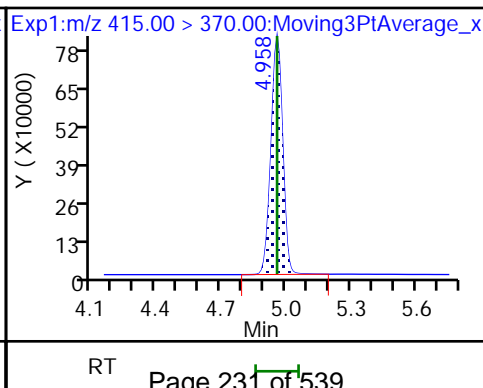
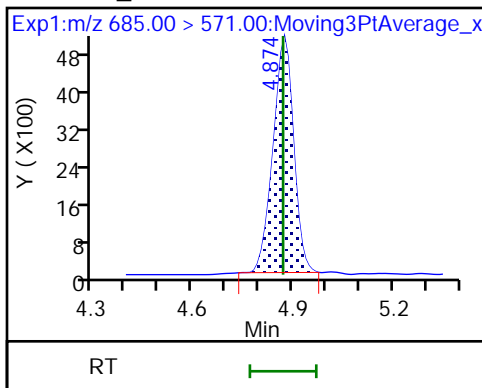
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-09.d
 Lims ID: IC CAL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 14-Aug-2022 04:16:52 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 9
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:43 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:41

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	7962452	37.0	104	2226
2 BFS_A3B	519.00 > 113.00	4.002	4.008	-0.006	0.920	10302824	42.6	107	71.7
3 BFS_B3	553.00 > 345.00	4.165	4.161	0.004	0.958	18271211	136.7	108	519
4 BFS_A2B2	569.00 > 229.00	4.265	4.267	-0.002	0.981	25081980	274.4	98.8	450
D 6 13C3 HFPO-DA	332.00 > 287.00	4.348	4.348	0.0	0.877	623048	5.16	103	892
5 BFS_A4B	585.00 > 113.00	4.348	4.353	-0.005	1.000	6595417	22.2	101	638
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	32379885	262.3	88.1	845
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	11977716	48.9	93.3	2111
9 BFS_B4	669.00 > 461.00	4.761	4.762	-0.001	1.095	5529764	67.7	97.9	1058
10 BFS_A2B3	685.00 > 571.00	4.875	4.870	0.005	1.121	40996	4.91	93.7	467
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3007939	5.00		872

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS9_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-09.d

Injection Date: 14-Aug-2022 04:16:52

Instrument ID: 30733

Lims ID: IC CAL 9

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

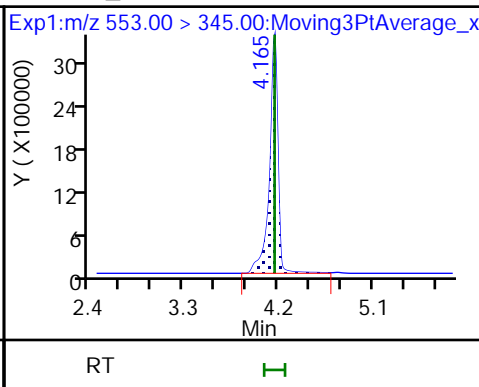
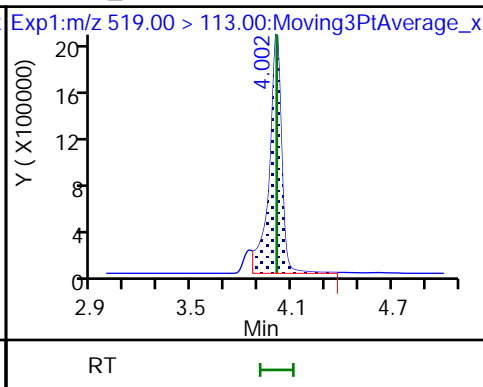
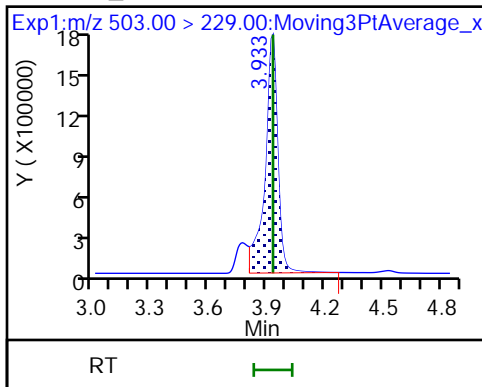
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

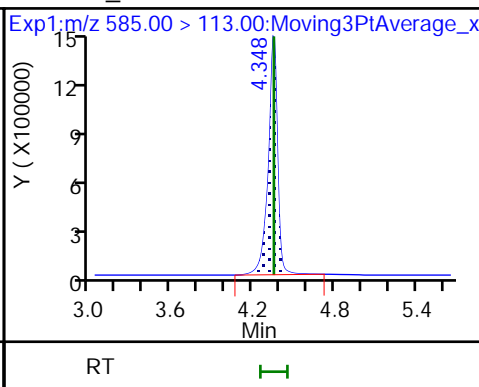
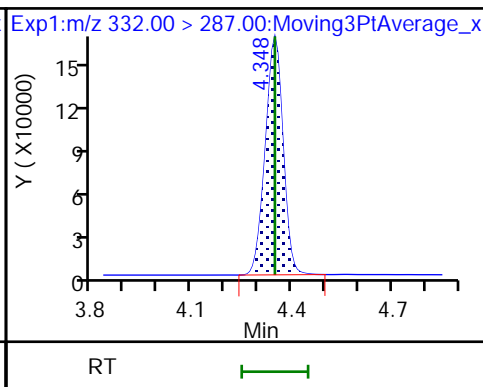
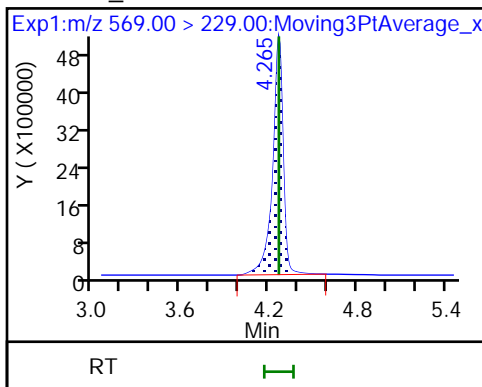
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

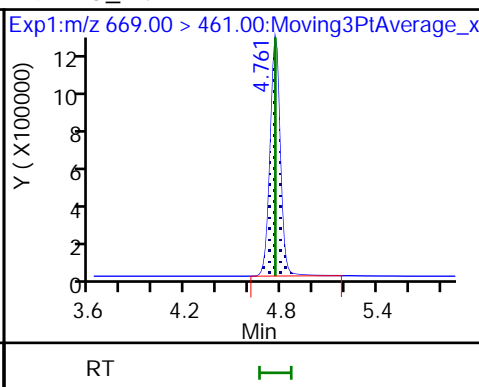
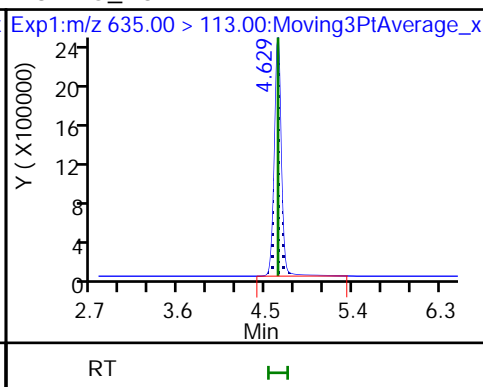
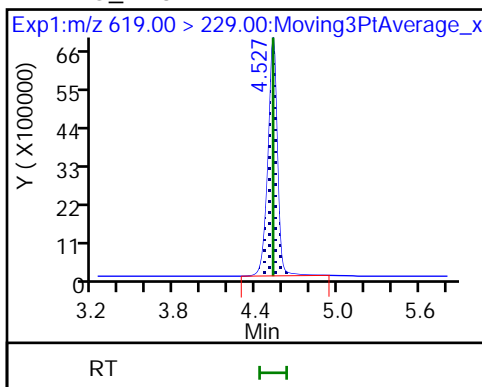
5 BFS_A4B



7 BFS_AB3

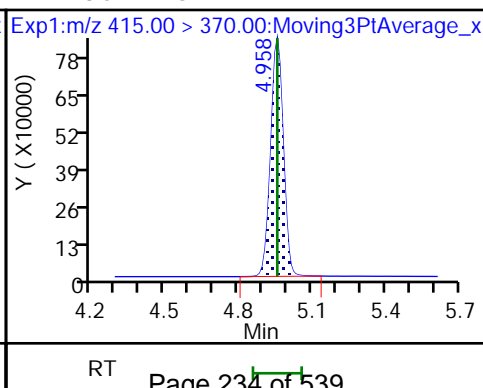
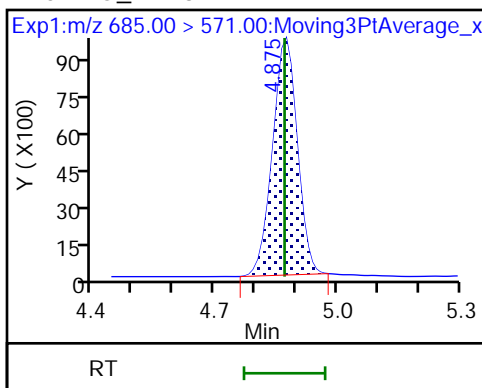
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Lims ID: IC CAL 10
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 14-Aug-2022 04:29:29 ALS Bottle#: 11 Worklist Smp#: 10
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 10
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-010
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:44 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:47

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.905	17604602	87.7	98.4	1120
2 BFS_A3B	519.00 > 113.00	4.010	4.008	0.002	0.923	21651619	96.2	96.6	28.2
3 BFS_B3	553.00 > 345.00	4.163	4.161	0.002	0.958	37604912	301.9	95.2	26.4
4 BFS_A2B2	569.00 > 229.00	4.263	4.267	-0.004	0.981	53023174	690.5	99.5	59.7
5 BFS_A4B	585.00 > 113.00	4.355	4.353	0.002	1.002	14877264	53.7	97.5	93.7
D 6 13C3 HFPO-DA	332.00 > 287.00	4.346	4.348	-0.002	0.877	580678	4.89	97.7	681
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.041	75507247	798.3	107	1152979
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.064	28128569	134.4	103	1812
9 BFS_B4	669.00 > 461.00	4.760	4.762	-0.002	1.095	12632285	173.5	100	615
10 BFS_A2B3	685.00 > 571.00	4.874	4.870	0.004	1.121	103106	13.2	101	440
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2961057	5.00		844

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS10_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Injection Date: 14-Aug-2022 04:29:29

Instrument ID: 30733

Lims ID: IC CAL 10

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 10

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

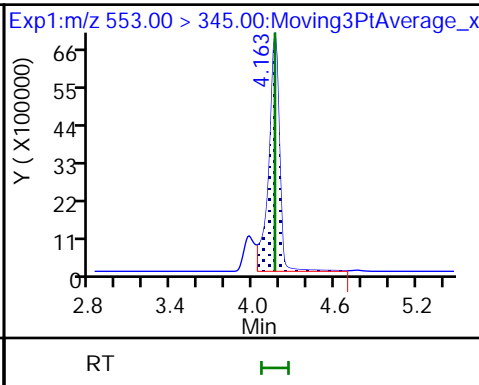
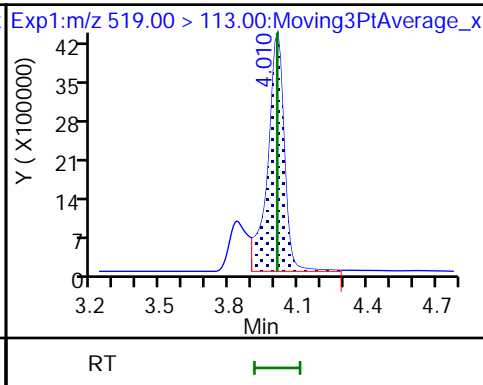
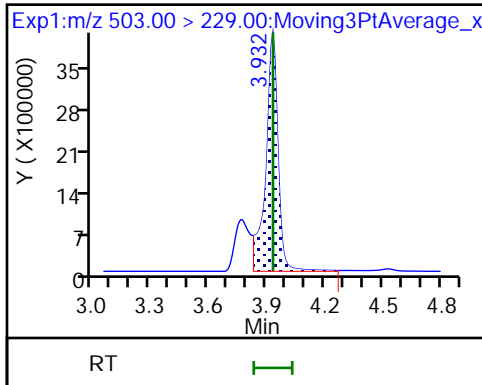
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

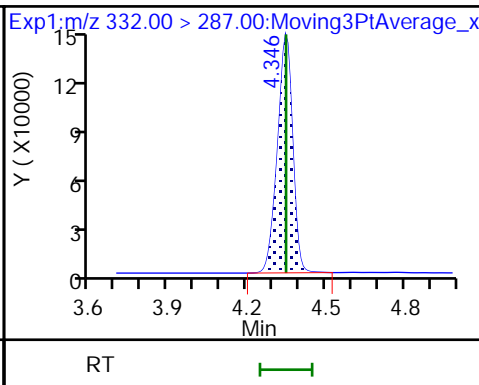
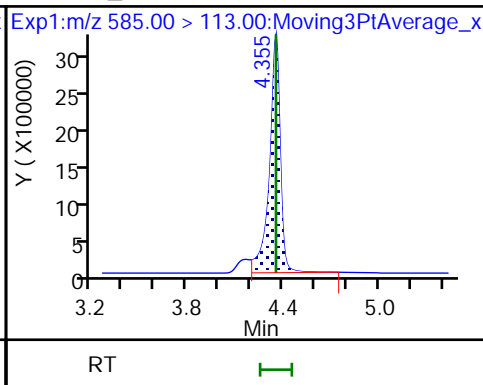
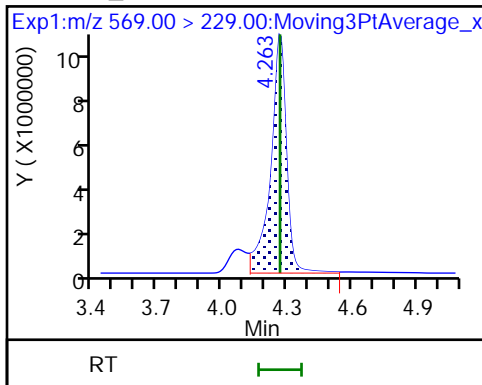
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B

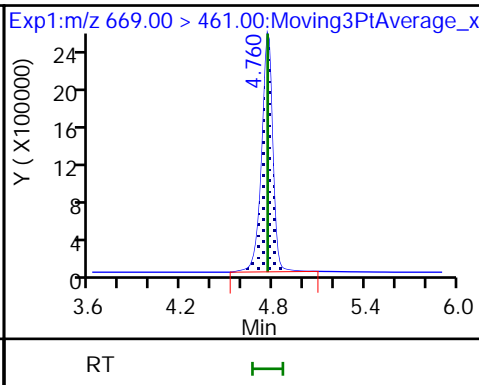
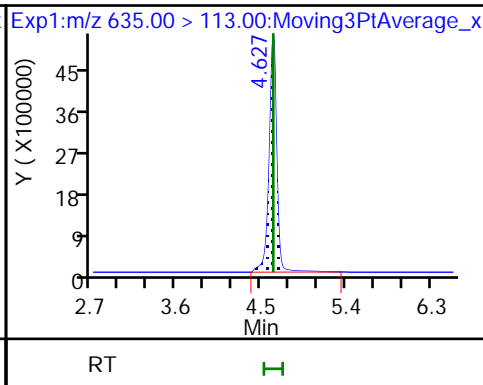
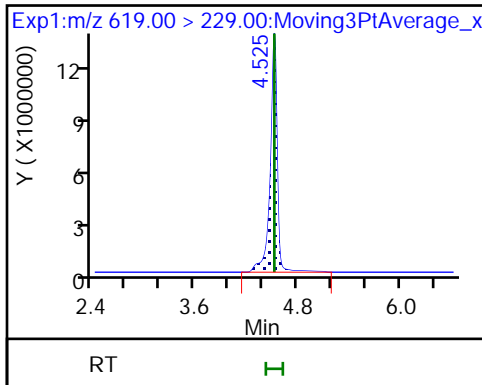
D 6 13C3 HFPO-DA



7 BFS_AB3

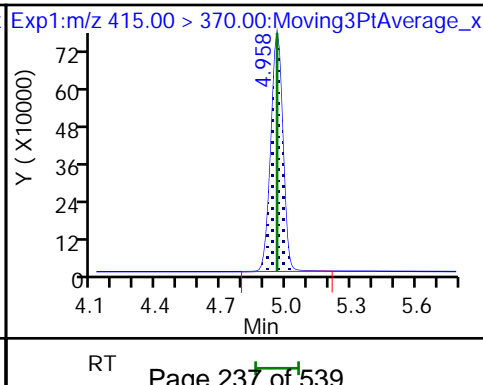
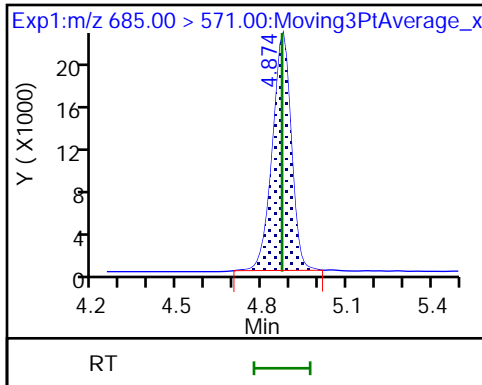
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



Calibration

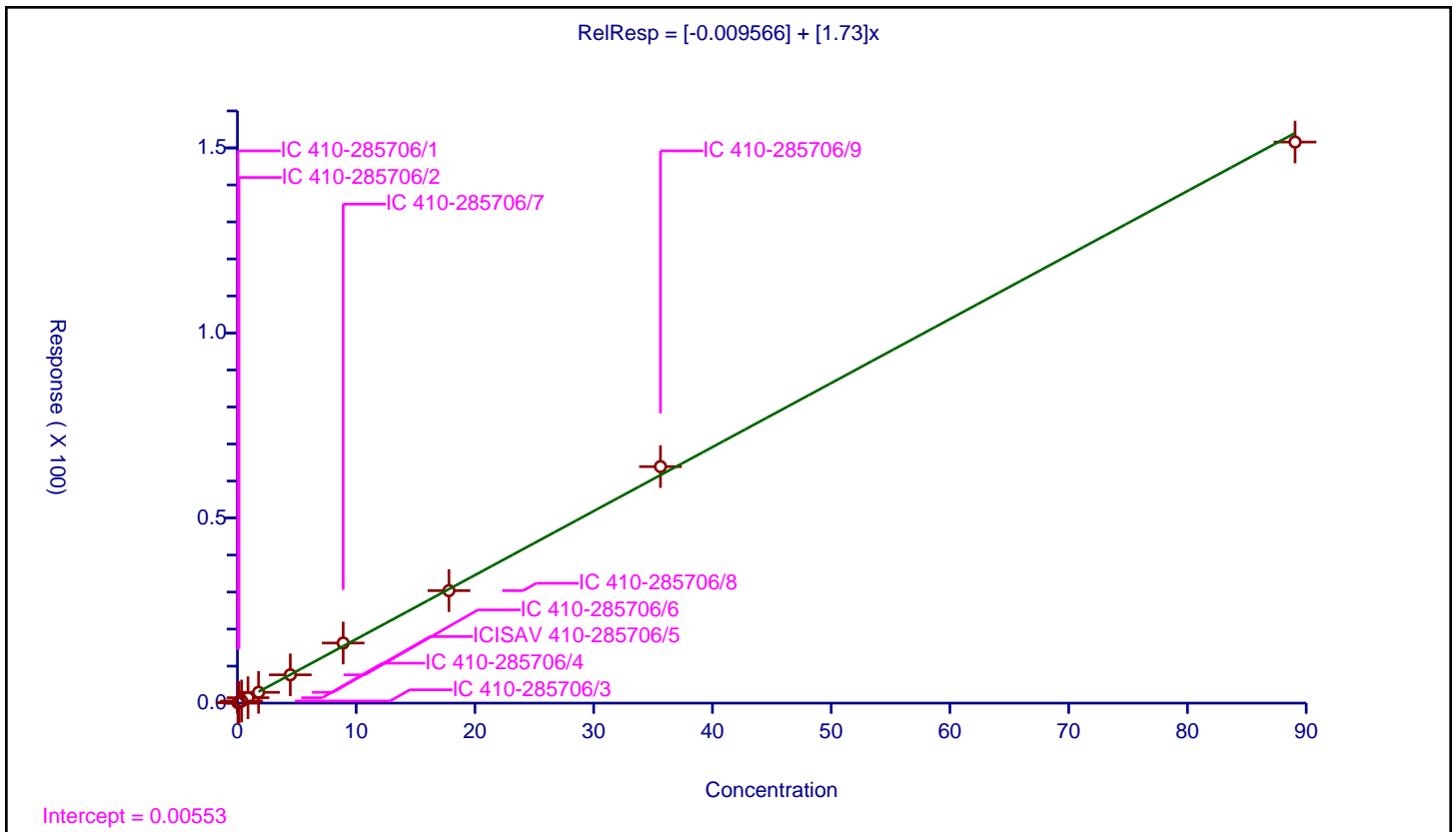
/ BFS_AB2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.009566
Slope:	1.73

Error Coefficients	
Standard Error:	7000000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.044531	0.073726	5.0	623591.0	1.655615	Y
2	IC 410-285706/2	0.133593	0.222791	5.0	614007.0	1.667682	Y
3	IC 410-285706/3	0.356248	0.575559	5.0	617591.0	1.615613	Y
4	IC 410-285706/4	0.89062	1.463046	5.0	635578.0	1.642728	Y
5	ICISAV 410-285706/5	1.78124	2.919936	5.0	613094.0	1.639271	Y
6	IC 410-285706/6	4.4531	7.64053	5.0	607823.0	1.715778	Y
7	IC 410-285706/7	8.9062	16.235951	5.0	605647.0	1.822994	Y
8	IC 410-285706/8	17.8124	30.390131	5.0	604361.0	1.706122	Y
9	IC 410-285706/9	35.6248	63.899186	5.0	623048.0	1.793671	Y
10	IC 410-285706/10	89.062	151.586611	5.0	580678.0	1.702035	Y



Calibration

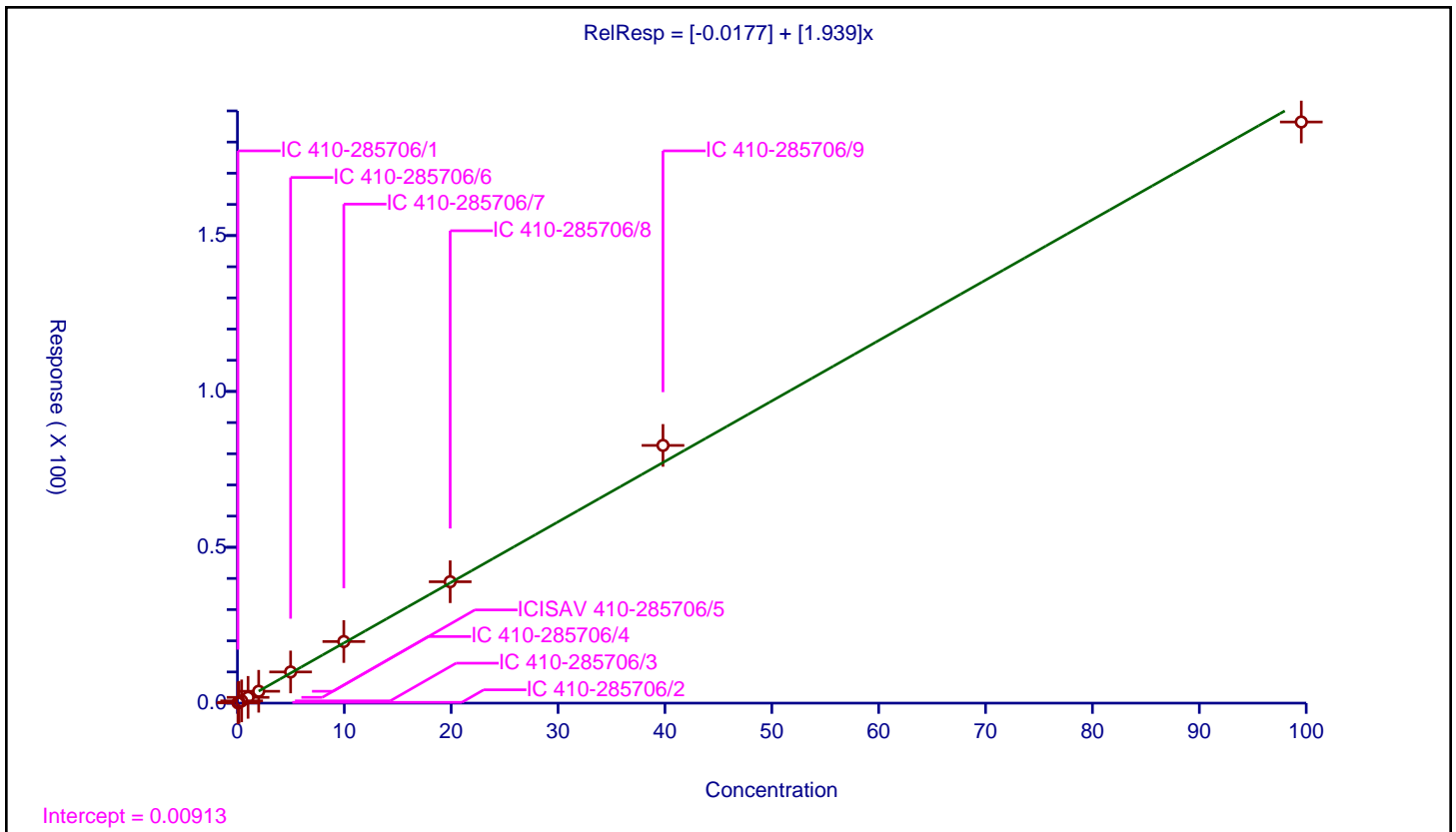
/ BFS_A3B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.0177
Slope:	1.939

Error Coefficients	
Standard Error:	8690000
Relative Standard Error:	4.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.04977	0.081231	5.0	623591.0	1.632139	Y
2	IC 410-285706/2	0.149309	0.258206	5.0	614007.0	1.729334	Y
3	IC 410-285706/3	0.398158	0.717918	5.0	617591.0	1.8031	Y
4	IC 410-285706/4	0.995395	1.850748	5.0	635578.0	1.859311	Y
5	ICISAV 410-285706/5	1.99079	3.80975	5.0	613094.0	1.913688	Y
6	IC 410-285706/6	4.976975	10.001621	5.0	607823.0	2.009578	Y
7	IC 410-285706/7	9.95395	19.761445	5.0	605647.0	1.985287	Y
8	IC 410-285706/8	19.9079	38.945771	5.0	604361.0	1.956297	Y
9	IC 410-285706/9	39.8158	82.680821	5.0	623048.0	2.076583	Y
10	IC 410-285706/10	99.5395	186.433953	5.0	580678.0	1.872965	Y



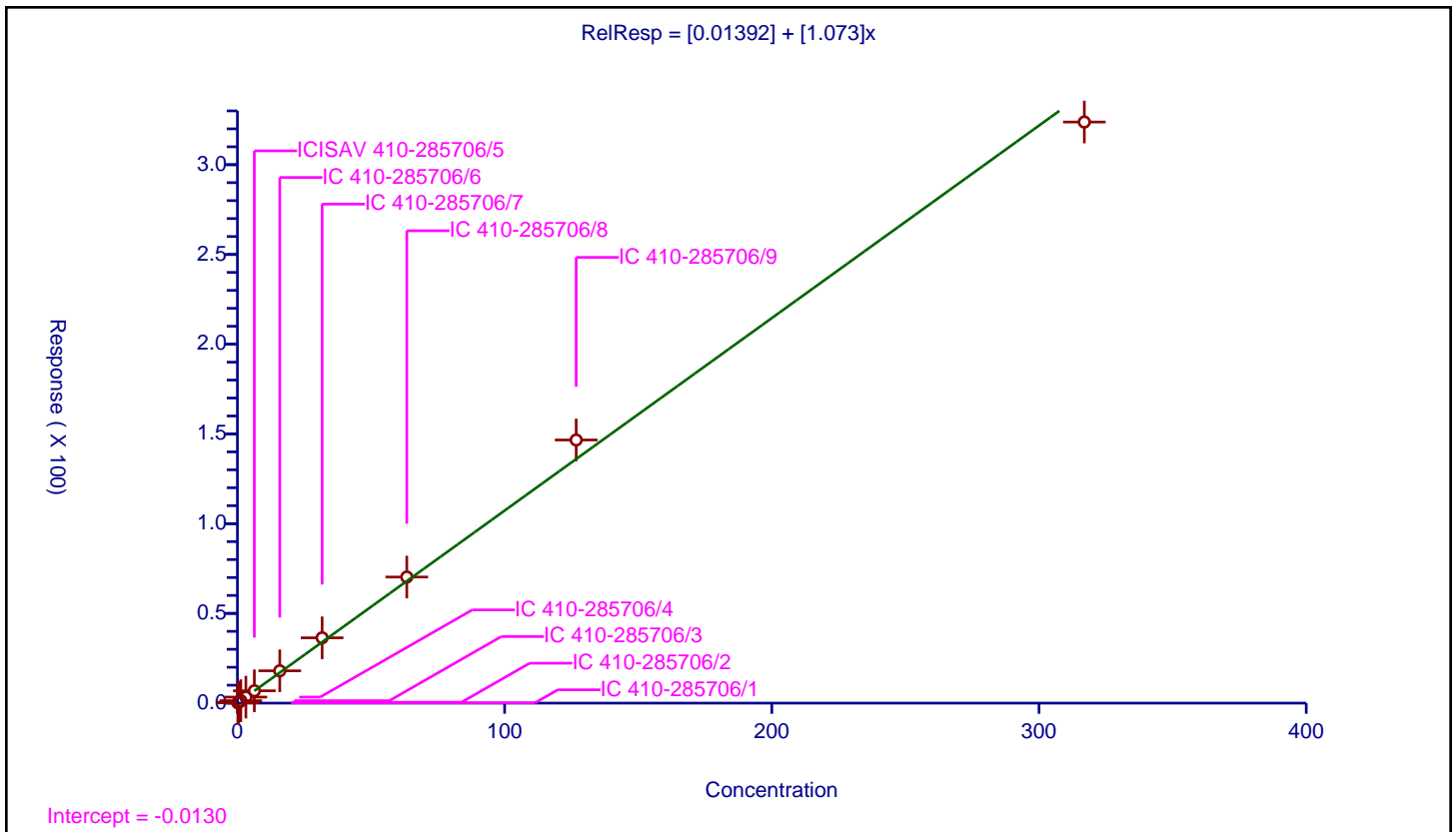
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.01392
Slope:	1.073

Error Coefficients	
Standard Error:	15200000
Relative Standard Error:	7.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.158478	0.157162	5.0	623591.0	0.9917	Y
2	IC 410-285706/2	0.475433	0.513447	5.0	614007.0	1.079956	Y
3	IC 410-285706/3	1.267822	1.362253	5.0	617591.0	1.074483	Y
4	IC 410-285706/4	3.169555	3.363623	5.0	635578.0	1.061229	Y
5	ICISAV 410-285706/5	6.33911	6.878325	5.0	613094.0	1.085062	Y
6	IC 410-285706/6	15.847775	18.003144	5.0	607823.0	1.136005	Y
7	IC 410-285706/7	31.69555	36.390059	5.0	605647.0	1.148113	Y
8	IC 410-285706/8	63.3911	70.265379	5.0	604361.0	1.108442	Y
9	IC 410-285706/9	126.7822	146.627635	5.0	623048.0	1.156532	Y
10	IC 410-285706/10	316.9555	323.801763	5.0	580678.0	1.0216	Y



Calibration

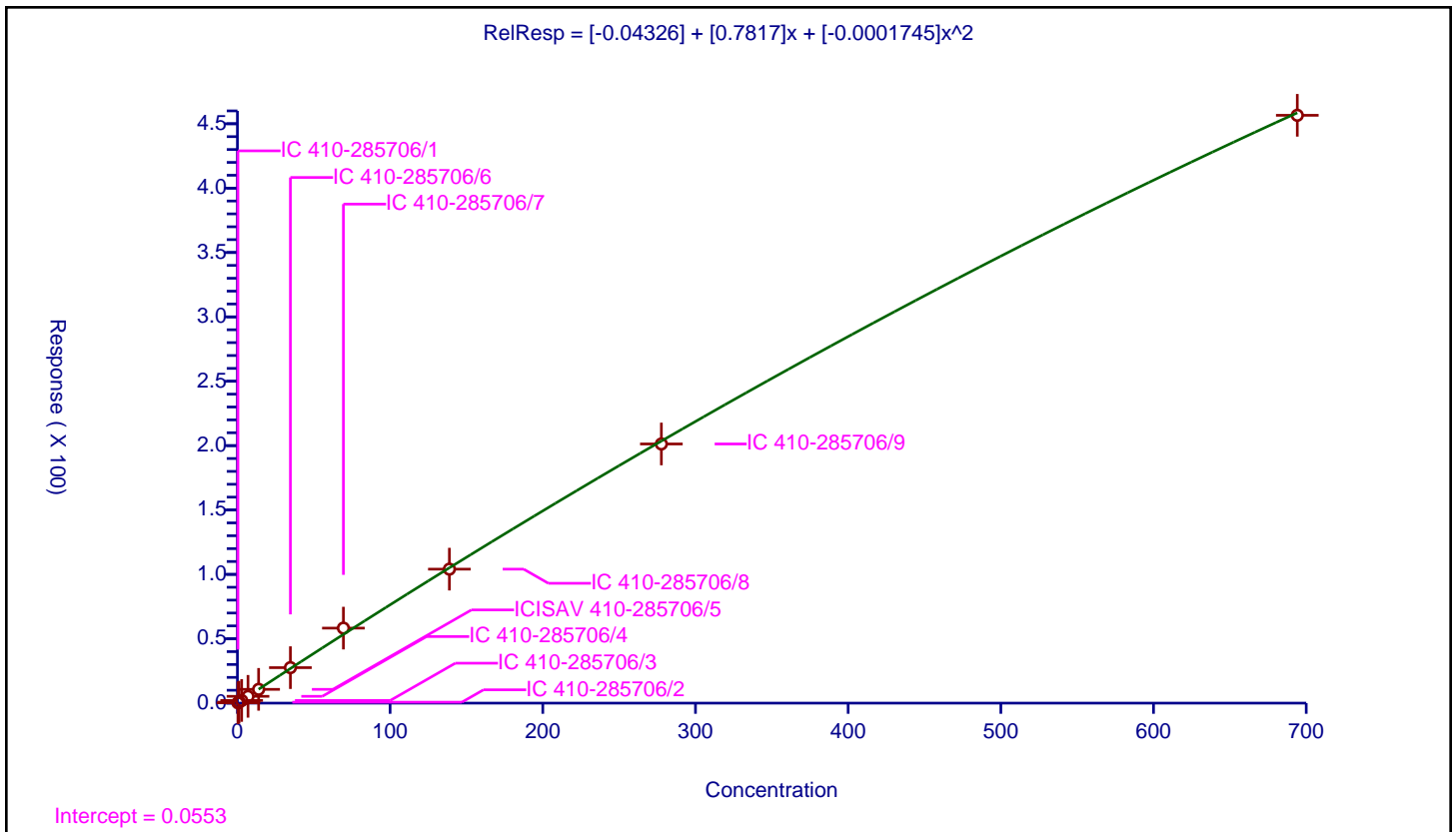
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Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.04326
Slope:	0.7817
Second Order:	-0.0001745

Error Coefficients	
Standard Error:	22900000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.347079	0.234192	5.0	623591.0	0.674751	Y
2	IC 410-285706/2	1.041238	0.726816	5.0	614007.0	0.698031	Y
3	IC 410-285706/3	2.776634	2.049083	5.0	617591.0	0.737974	Y
4	IC 410-285706/4	6.941585	5.275025	5.0	635578.0	0.759917	Y
5	ICISAV 410-285706/5	13.88317	10.703196	5.0	613094.0	0.770948	Y
6	IC 410-285706/6	34.707925	27.556312	5.0	607823.0	0.793949	Y
7	IC 410-285706/7	69.41585	58.265665	5.0	605647.0	0.839371	Y
8	IC 410-285706/8	138.8317	104.06244	5.0	604361.0	0.749558	Y
9	IC 410-285706/9	277.6634	201.284492	5.0	623048.0	0.724923	Y
10	IC 410-285706/10	694.1585	456.562622	5.0	580678.0	0.657721	Y



Calibration

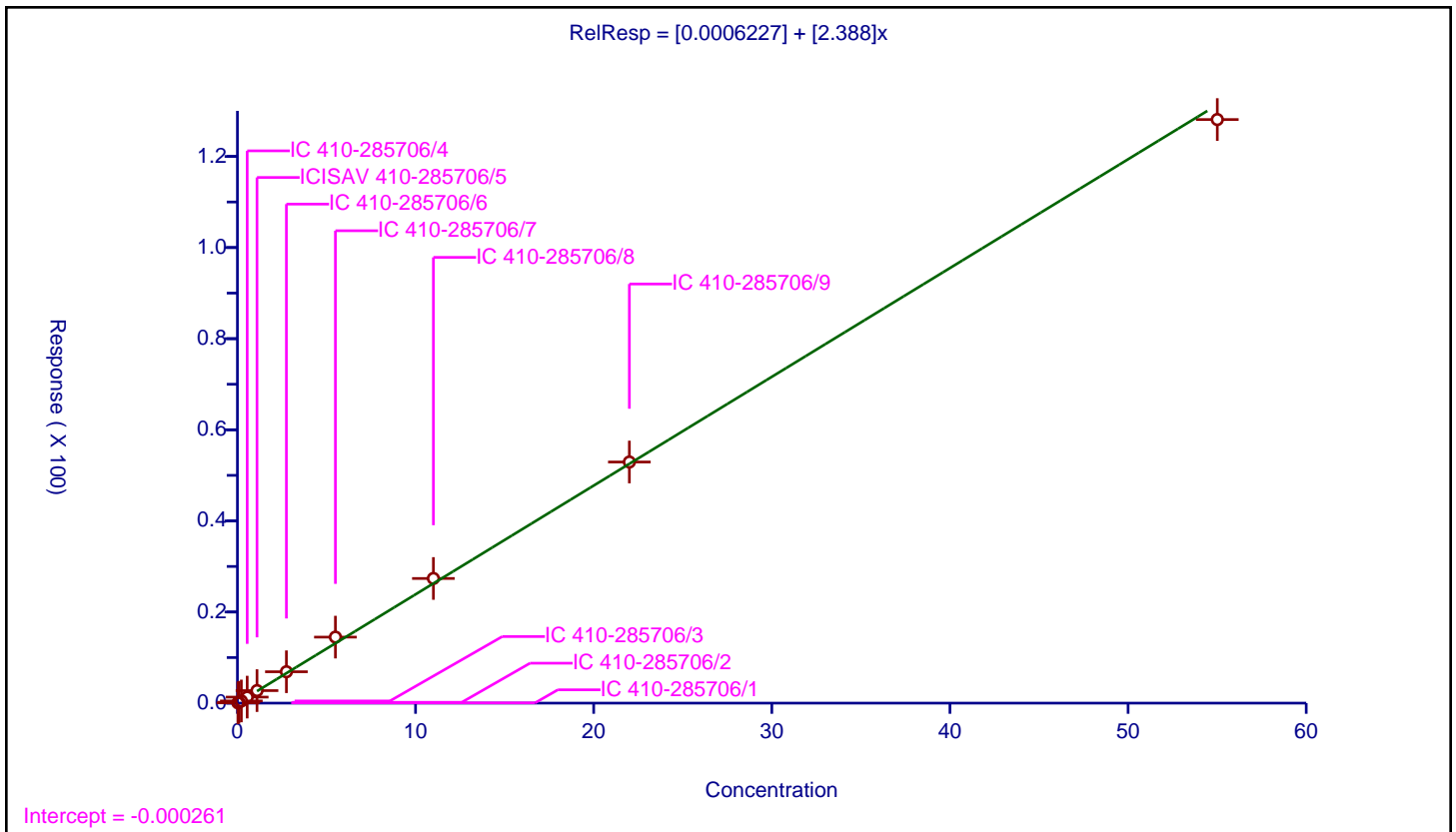
/ BFS_A4B

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0006227
Slope:	2.388

Error Coefficients	
Standard Error:	5910000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.027505	0.0621	5.0	623591.0	2.257812	Y
2	IC 410-285706/2	0.082514	0.182522	5.0	614007.0	2.21203	Y
3	IC 410-285706/3	0.220036	0.478788	5.0	617591.0	2.175952	Y
4	IC 410-285706/4	0.55009	1.322906	5.0	635578.0	2.40489	Y
5	ICISAV 410-285706/5	1.10018	2.749725	5.0	613094.0	2.499341	Y
6	IC 410-285706/6	2.75045	6.888444	5.0	607823.0	2.504479	Y
7	IC 410-285706/7	5.5009	14.492485	5.0	605647.0	2.634566	Y
8	IC 410-285706/8	11.0018	27.365168	5.0	604361.0	2.487335	Y
9	IC 410-285706/9	22.0036	52.928643	5.0	623048.0	2.405454	Y
10	IC 410-285706/10	55.009	128.102528	5.0	580678.0	2.328756	Y



Calibration

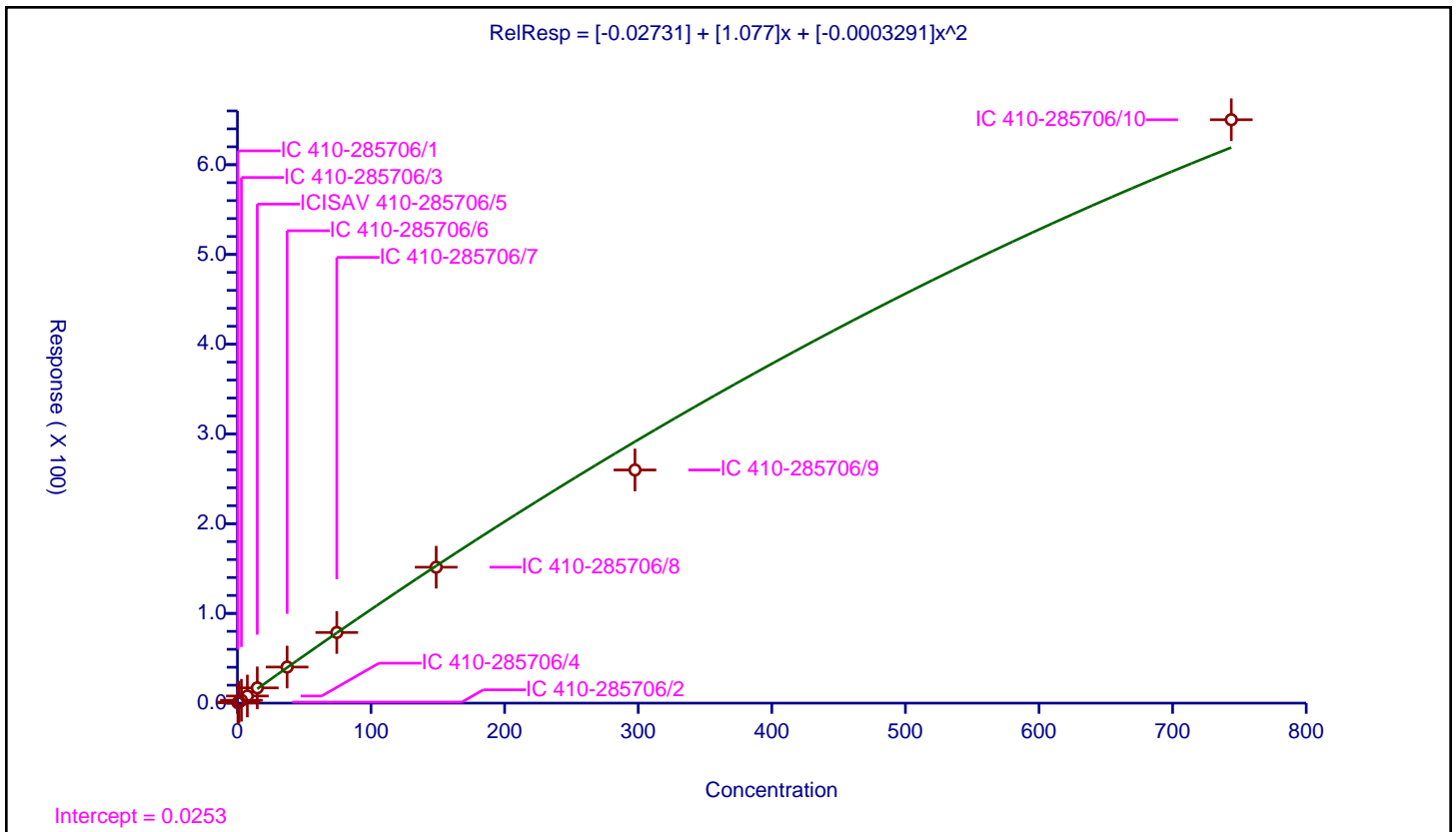
/ BFS_AB3

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02731
Slope:	1.077
Second Order:	-0.0003291

Error Coefficients	
Standard Error:	32100000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.371964	0.376529	5.0	623591.0	1.012272	Y
2	IC 410-285706/2	1.115893	1.136339	5.0	614007.0	1.018323	Y
3	IC 410-285706/3	2.975714	3.201123	5.0	617591.0	1.07575	Y
4	IC 410-285706/4	7.439285	7.950511	5.0	635578.0	1.06872	Y
5	ICISAV 410-285706/5	14.87857	16.989393	5.0	613094.0	1.14187	Y
6	IC 410-285706/6	37.196425	40.205841	5.0	607823.0	1.080906	Y
7	IC 410-285706/7	74.39285	78.716497	5.0	605647.0	1.058119	Y
8	IC 410-285706/8	148.7857	151.465821	5.0	604361.0	1.018013	Y
9	IC 410-285706/9	297.5714	259.850646	5.0	623048.0	0.873238	Y
10	IC 410-285706/10	743.9285	650.164523	5.0	580678.0	0.873961	Y



Calibration

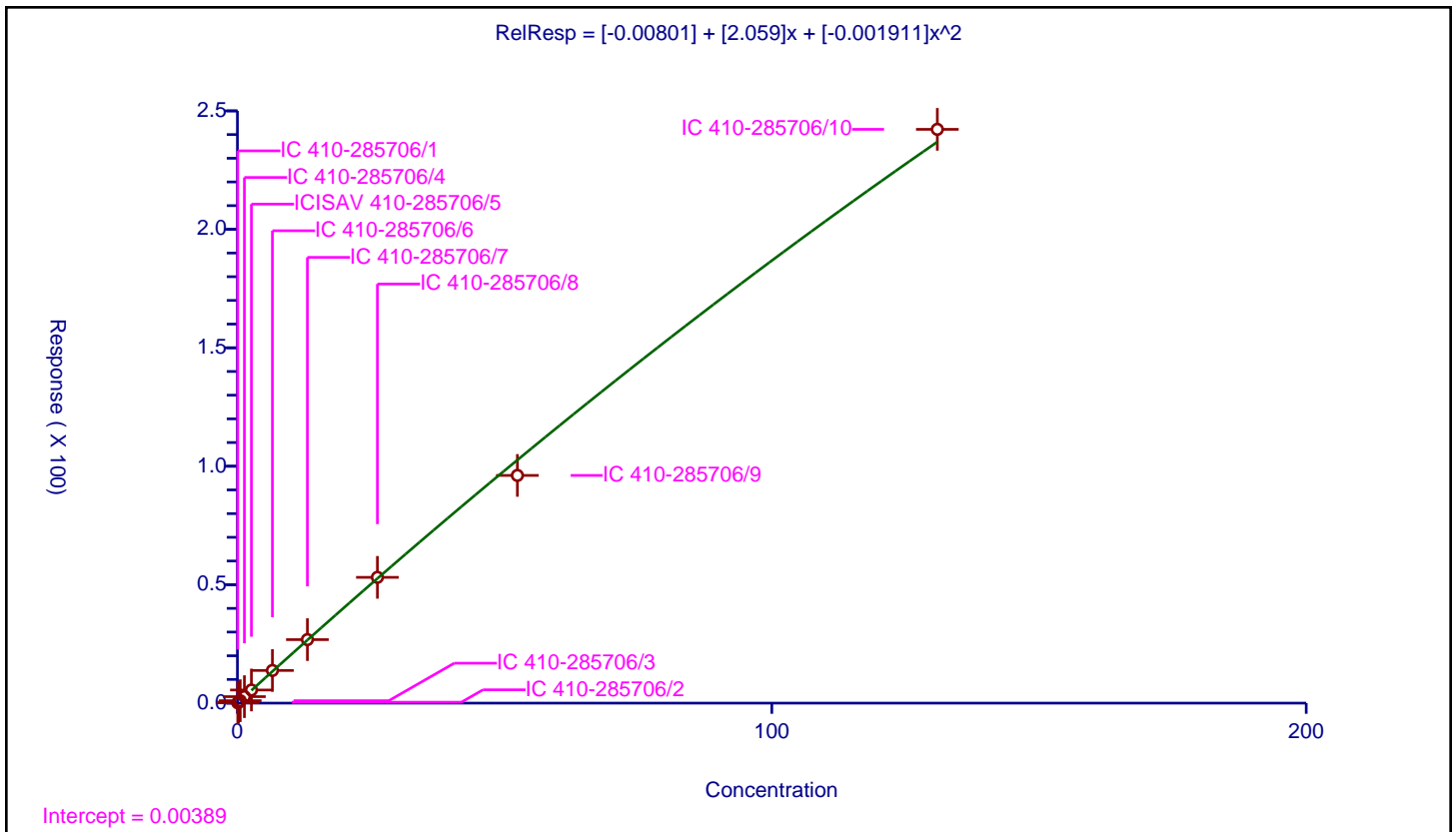
/ BFS_A3B2

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.00801
Slope:	2.059
Second Order:	-0.001911

Error Coefficients	
Standard Error:	11900000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.065487	0.128257	5.0	623591.0	1.958521	Y
2	IC 410-285706/2	0.19646	0.387479	5.0	614007.0	1.972304	Y
3	IC 410-285706/3	0.523894	1.026497	5.0	617591.0	1.959359	Y
4	IC 410-285706/4	1.309735	2.733244	5.0	635578.0	2.086868	Y
5	ICISAV 410-285706/5	2.61947	5.536467	5.0	613094.0	2.113583	Y
6	IC 410-285706/6	6.548675	13.794131	5.0	607823.0	2.1064	Y
7	IC 410-285706/7	13.09735	26.813672	5.0	605647.0	2.047259	Y
8	IC 410-285706/8	26.1947	53.093482	5.0	604361.0	2.026879	Y
9	IC 410-285706/9	52.3894	96.121936	5.0	623048.0	1.834759	Y
10	IC 410-285706/10	130.9735	242.204535	5.0	580678.0	1.849264	Y



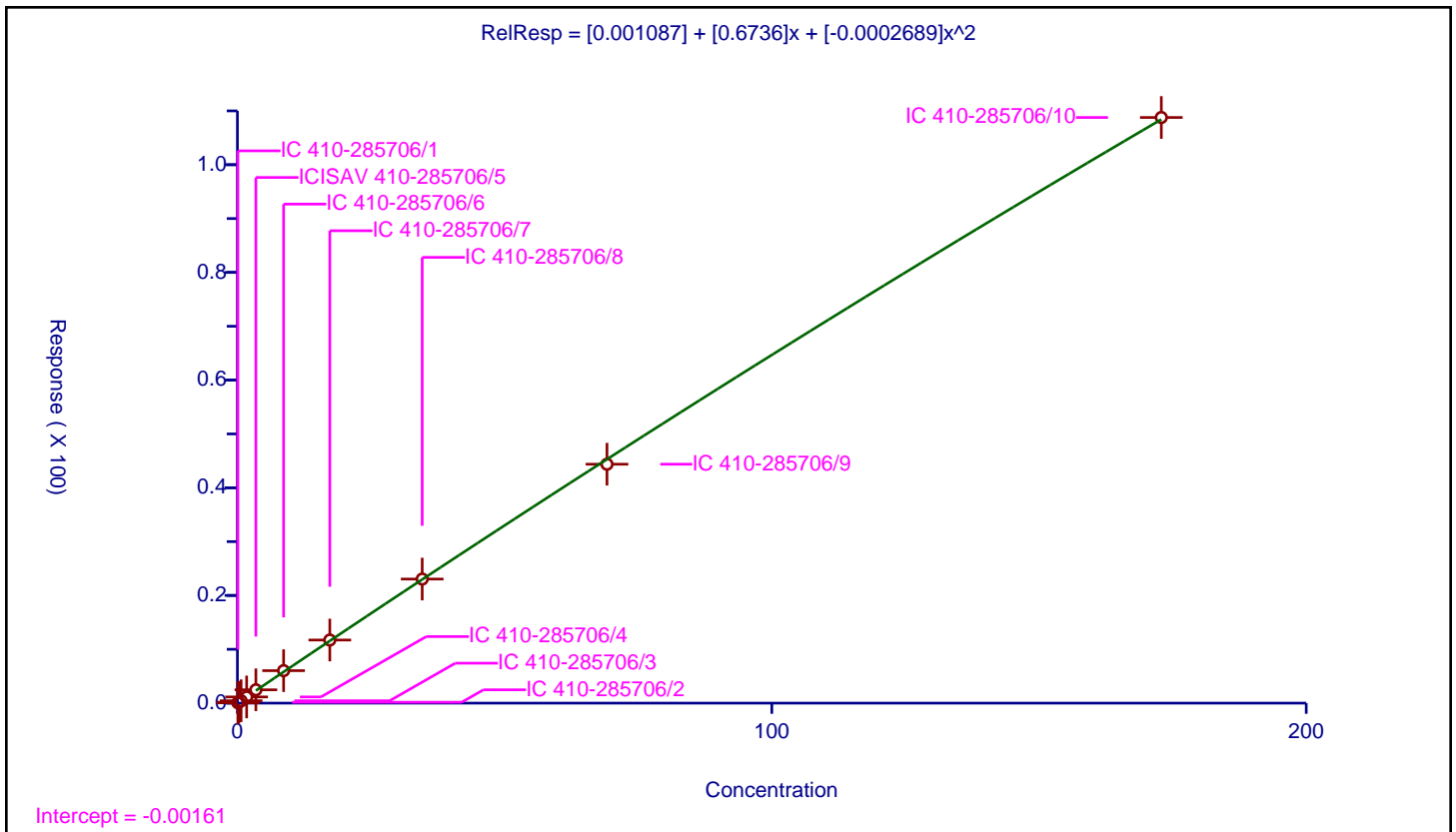
Calibration

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.001087
Slope:	0.6736
Second Order:	-0.0002689

Error Coefficients	
Standard Error:	5350000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.086443	0.060793	5.0	623591.0	0.703277	Y
2	IC 410-285706/2	0.259328	0.165267	5.0	614007.0	0.63729	Y
3	IC 410-285706/3	0.69154	0.441295	5.0	617591.0	0.638134	Y
4	IC 410-285706/4	1.72885	1.148427	5.0	635578.0	0.664272	Y
5	ICISAV 410-285706/5	3.4577	2.474792	5.0	613094.0	0.715734	Y
6	IC 410-285706/6	8.64425	6.034166	5.0	607823.0	0.698055	Y
7	IC 410-285706/7	17.2885	11.721655	5.0	605647.0	0.678003	Y
8	IC 410-285706/8	34.577	23.044008	5.0	604361.0	0.666455	Y
9	IC 410-285706/9	69.154	44.376709	5.0	623048.0	0.641708	Y
10	IC 410-285706/10	172.885	108.771858	5.0	580678.0	0.629157	Y



Calibration

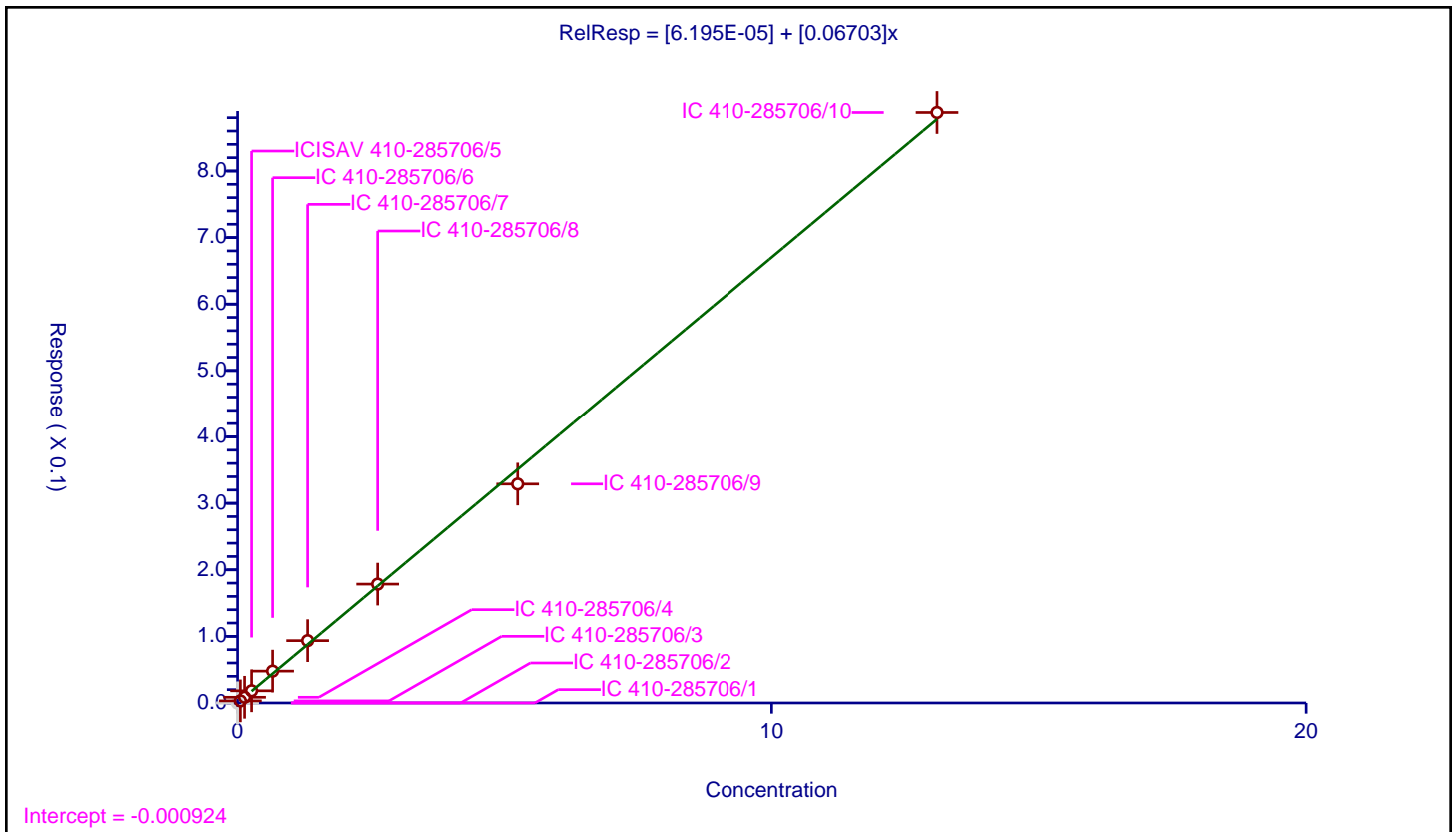
/ BFS_A2B3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	6.195E-05
Slope:	0.06703

Error Coefficients	
Standard Error:	46400
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285706/1	0.0	0.0	5.0	623591.0	NaN	N
2	IC 410-285706/2	0.0	0.0	5.0	614007.0	NaN	N
3	IC 410-285706/3	0.05239	0.003157	5.0	617591.0	0.060268	Y
4	IC 410-285706/4	0.130975	0.008536	5.0	635578.0	0.065169	Y
5	ICISAV 410-285706/5	0.26195	0.018252	5.0	613094.0	0.069676	Y
6	IC 410-285706/6	0.654875	0.047818	5.0	607823.0	0.073019	Y
7	IC 410-285706/7	1.30975	0.093545	5.0	605647.0	0.071422	Y
8	IC 410-285706/8	2.6195	0.178494	5.0	604361.0	0.068141	Y
9	IC 410-285706/9	5.239	0.328996	5.0	623048.0	0.062797	Y
10	IC 410-285706/10	13.0975	0.887807	5.0	580678.0	0.067784	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: ICV 410-283892/12 Calibration Date: 08/09/2022 02:21
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG08BFSCAL-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.060		3.58	4.45	-19.7	30.0
BFS_A3B	Q2ID		1.197		3.99	4.98	-19.9	30.0
BFS_B3	L1ID		0.6874		12.9	15.8	-18.6	30.0
BFS_A2B2	L1ID		0.4995		30.6	34.7	-12.0	30.0
BFS_A4B	L1ID		1.805		2.56	2.75	-7.0	30.0
BFS_AB3	Q2ID		0.7248		35.6	37.2	-4.3	30.0
BFS_A3B2	Q2ID		1.329		6.17	6.55	-5.8	30.0
BFS_B4	L1ID		0.4489		8.50	8.64	-1.7	30.0
BFS_A2B3	Q2ID		0.0351		0.536	0.655	-18.2	30.0
13C3 HFPO-DA	Ave	0.2143	0.2095		4.89	5.00	-2.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Aug-2022 02:21:36 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:12:08 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:45:15

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.961	3.961	0.0	0.904	587243	3.58		1387	M
2 BFS_A3B									M
519.00 > 113.00	4.044	4.042	0.002	0.923	740934	3.99		49.2	M
3 BFS_B3									M
553.00 > 345.00	4.202	4.201	0.002	0.959	1354917	12.9		73.9	M
4 BFS_A2B2									M
569.00 > 229.00	4.307	4.305	0.002	0.983	2156612	30.6		109	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.382	4.388	-0.006	0.877	621920	4.89	97.8	271	
5 BFS_A4B									
585.00 > 113.00	4.390	4.388	0.002	1.002	617681	2.56		181	
7 BFS_AB3									
619.00 > 229.00	4.566	4.564	0.002	1.042	3353534	35.6		189	
8 BFS_A3B2									
635.00 > 113.00	4.660	4.671	-0.011	1.063	1082307	6.17		199	
9 BFS_B4									
669.00 > 461.00	4.805	4.804	0.001	1.097	482641	8.50		206	
10 BFS_A2B3									M
685.00 > 571.00	4.907	4.907	0.0	1.120	2856	0.5355		60.7	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.001		2968895	5.00		327	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_BFS_00006

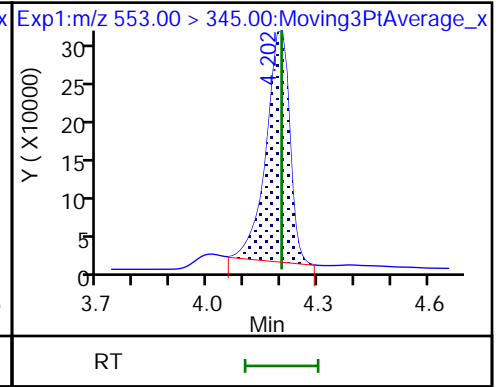
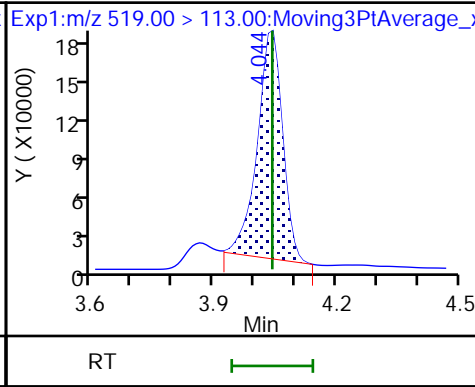
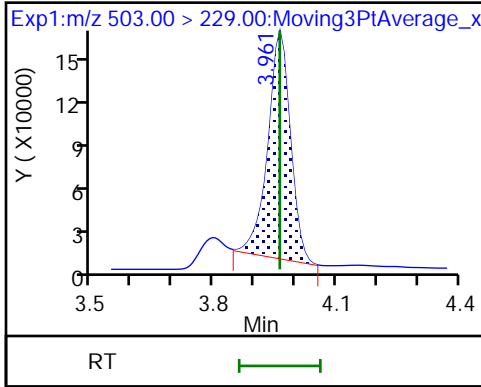
Amount Added: 200.00

Units: uL

1 BFS_AB2 (M)

2 BFS_A3B (M)

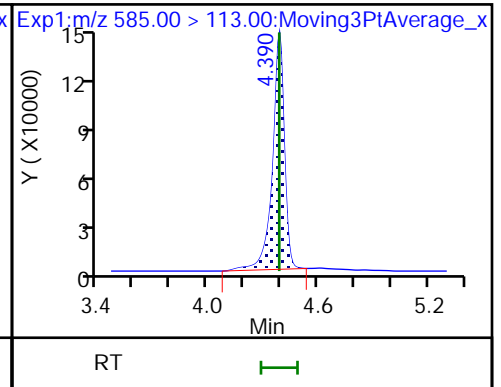
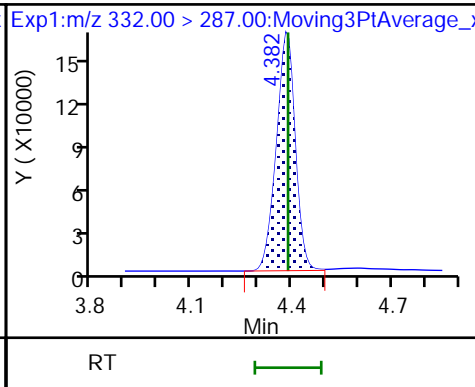
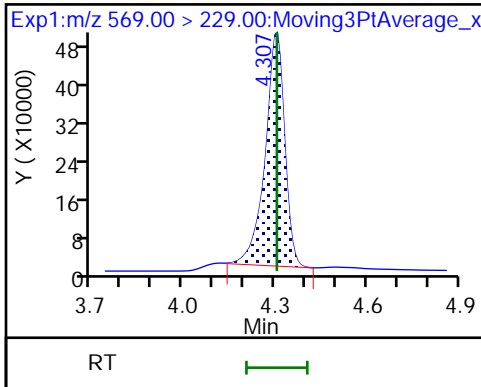
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

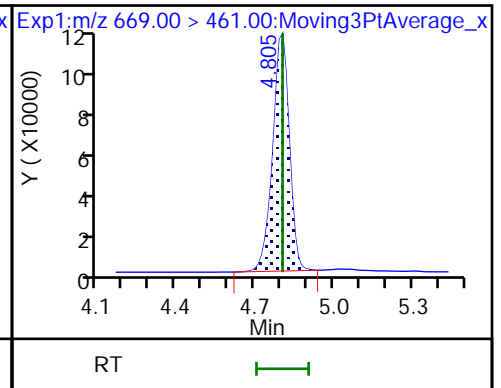
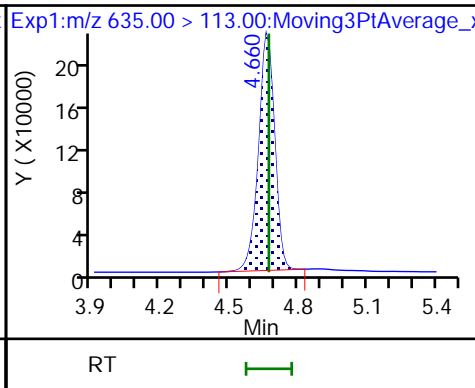
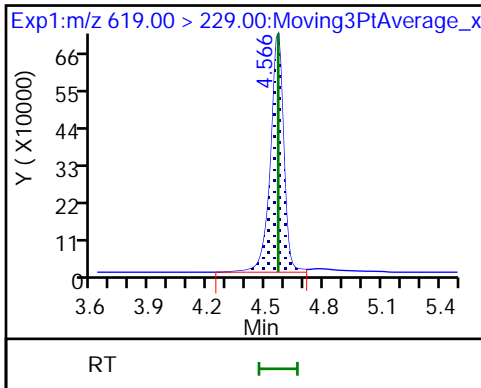
5 BFS_A4B



7 BFS_AB3

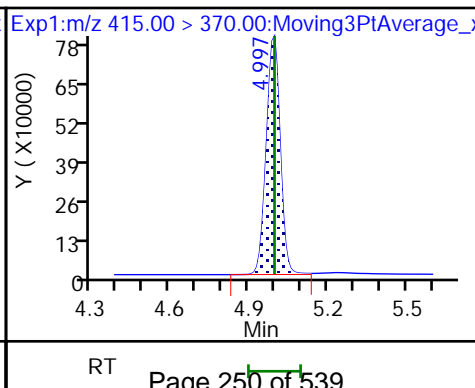
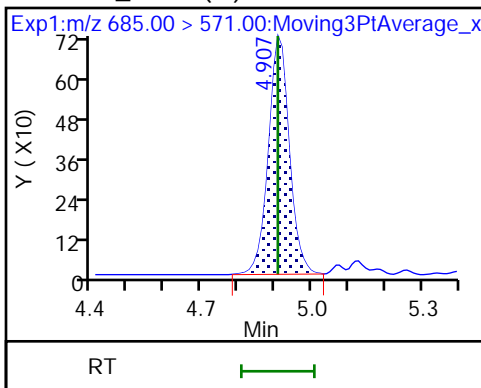
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

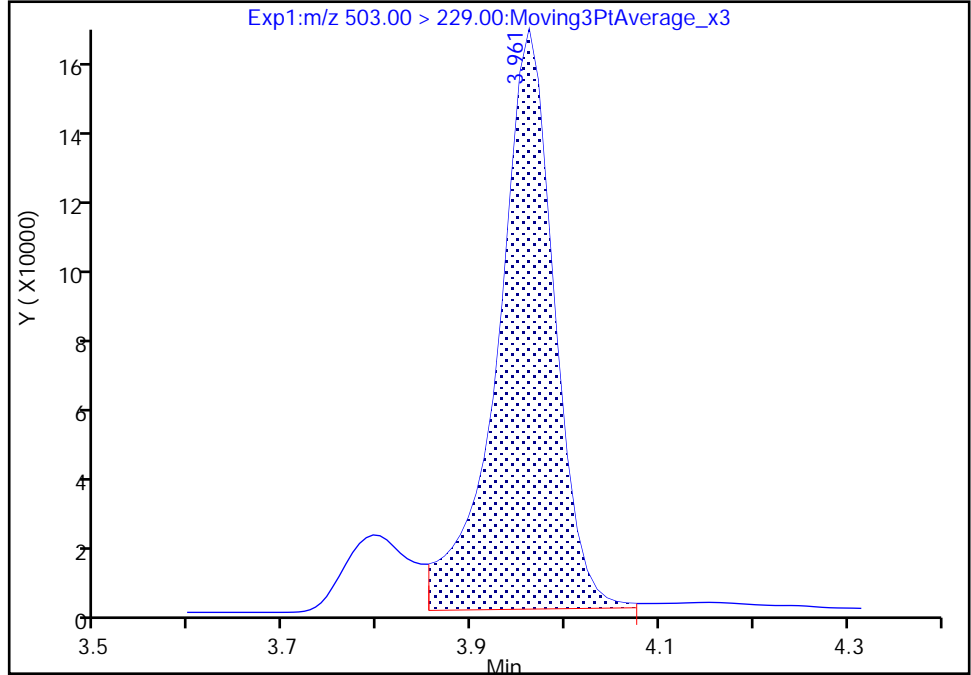
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Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

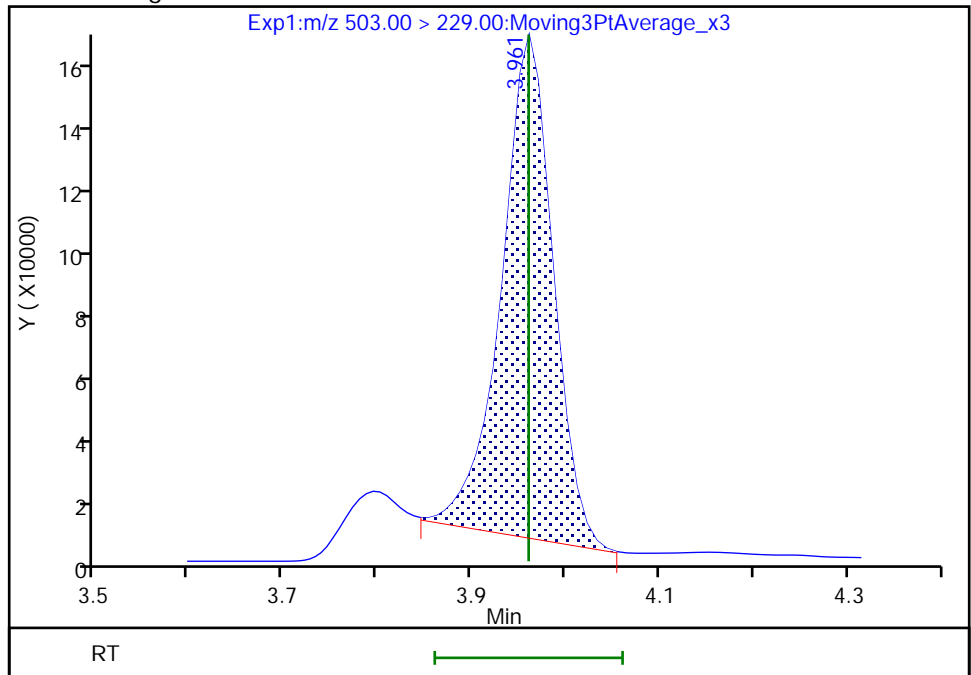
RT: 3.96
Area: 666371
Amount: 3.775641
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 587243
Amount: 3.575015
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:45:10
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

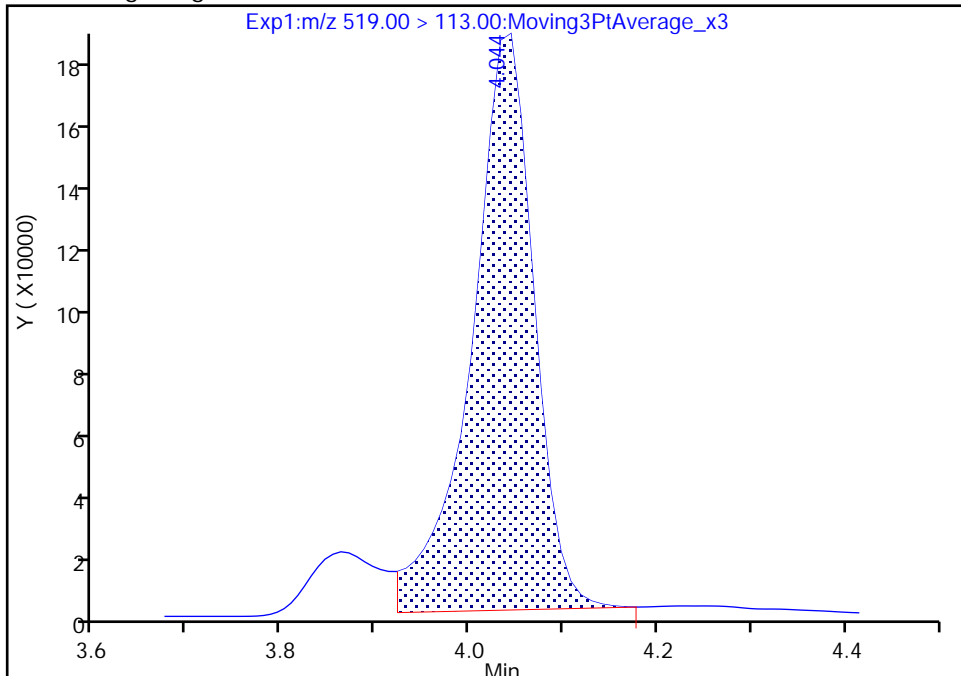
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-14.d
Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

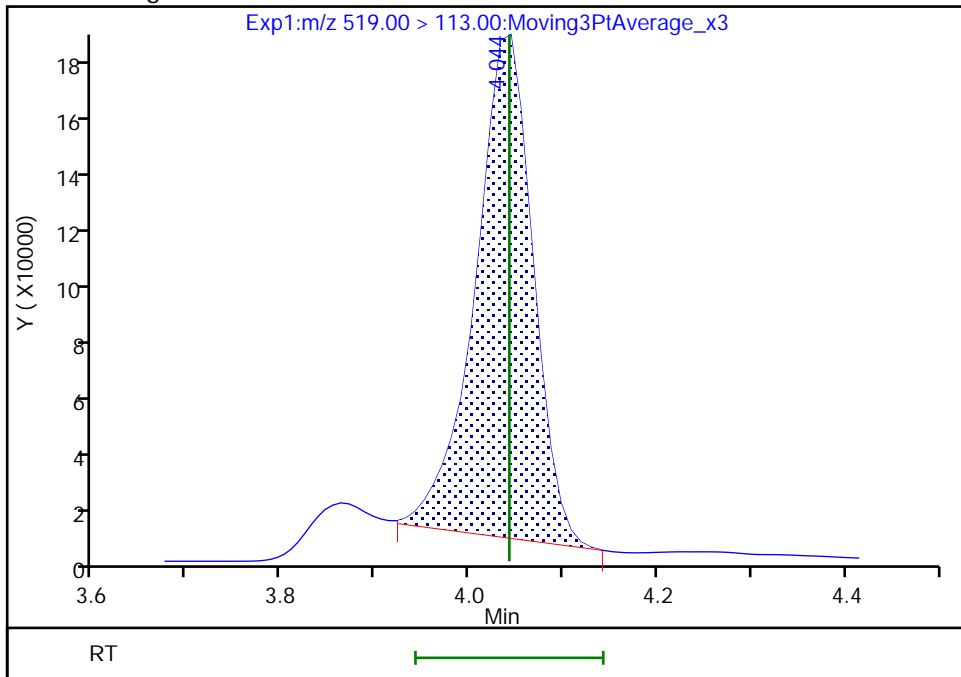
RT: 4.04
Area: 826222
Amount: 4.032769
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 740934
Amount: 3.986105
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:45:06
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 252 of 539

Eurofins Lancaster Laboratories Environment Testing, LLC

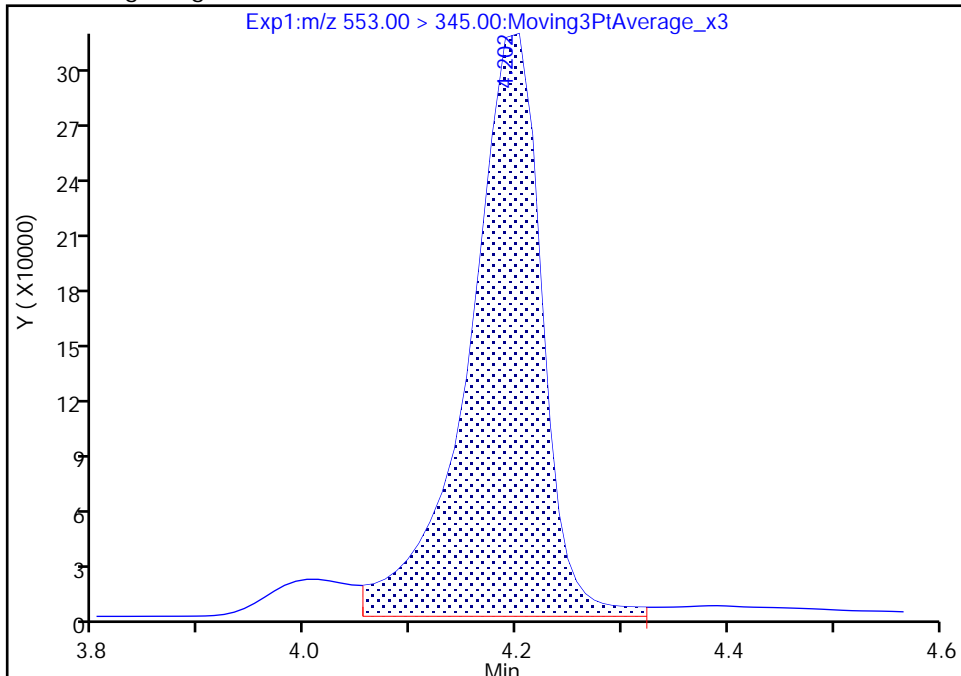
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Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

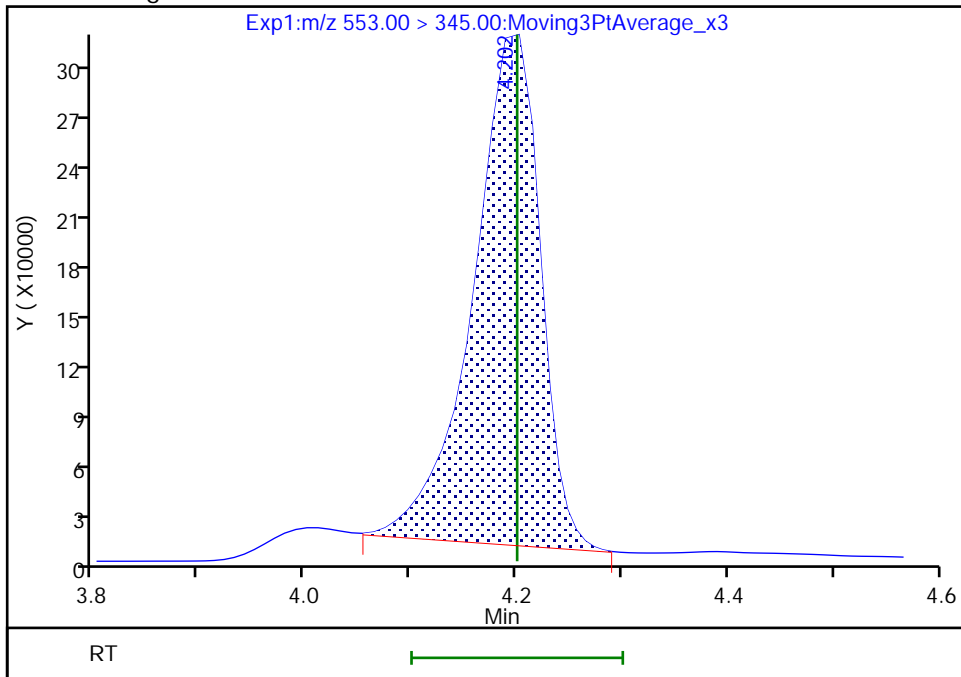
RT: 4.20
Area: 1513716
Amount: 14.400461
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 1354917
Amount: 12.893127
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:51
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 253 of 539

Eurofins Lancaster Laboratories Environment Testing, LLC

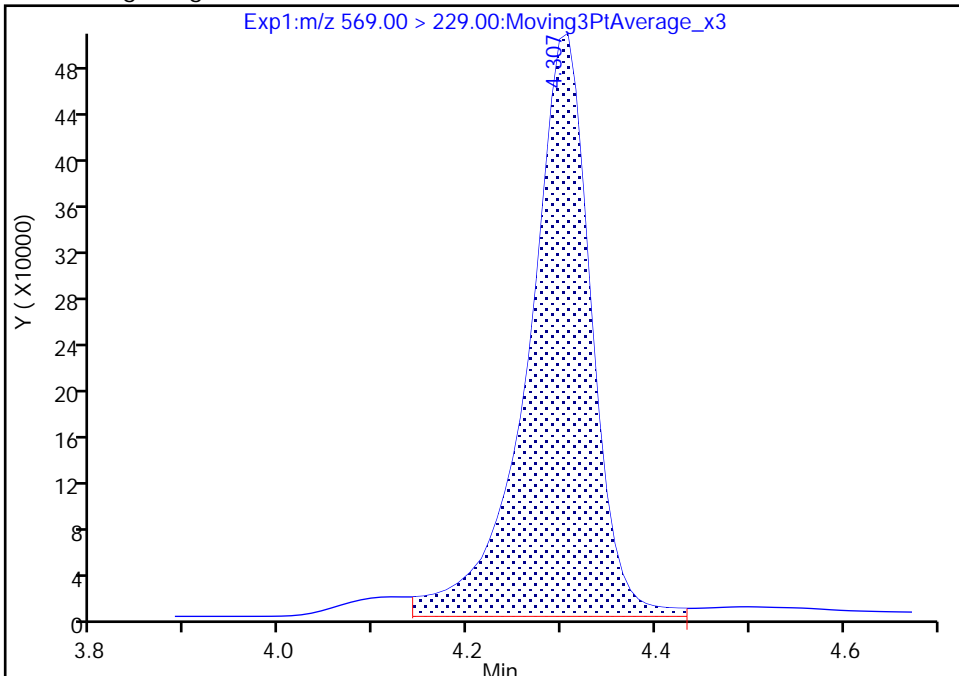
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Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

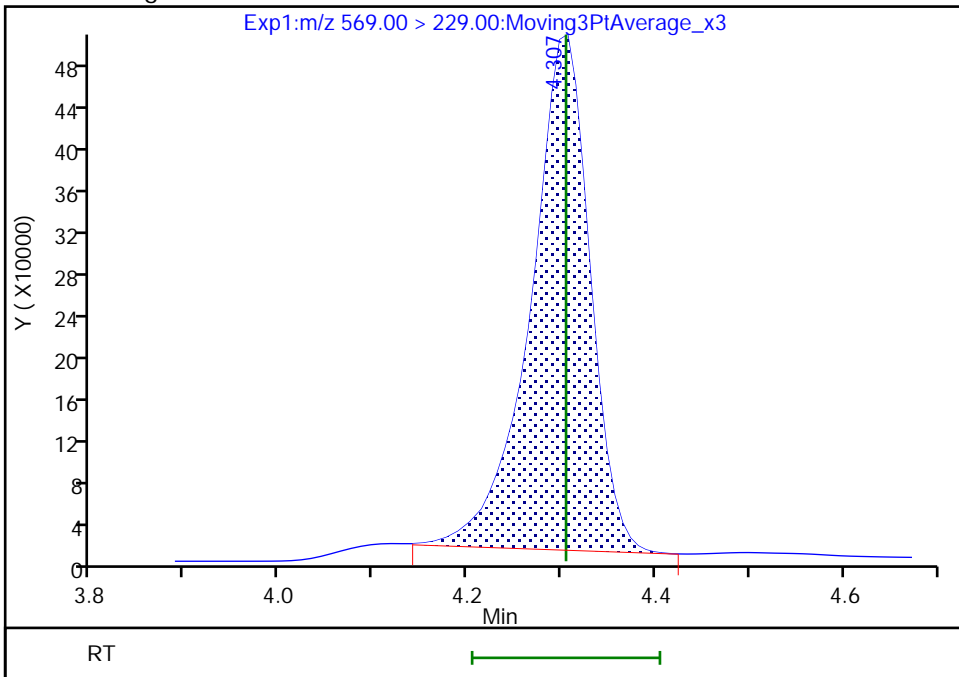
RT: 4.31
Area: 2350115
Amount: 33.297611
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 2156612
Amount: 30.551489
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:55
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

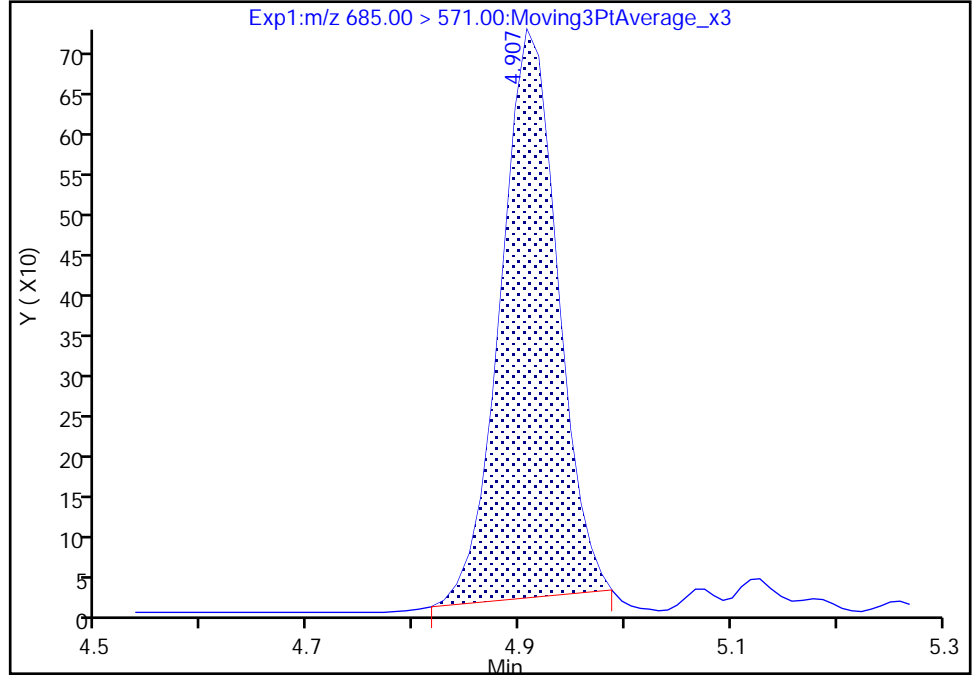
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Injection Date: 09-Aug-2022 02:21:36 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

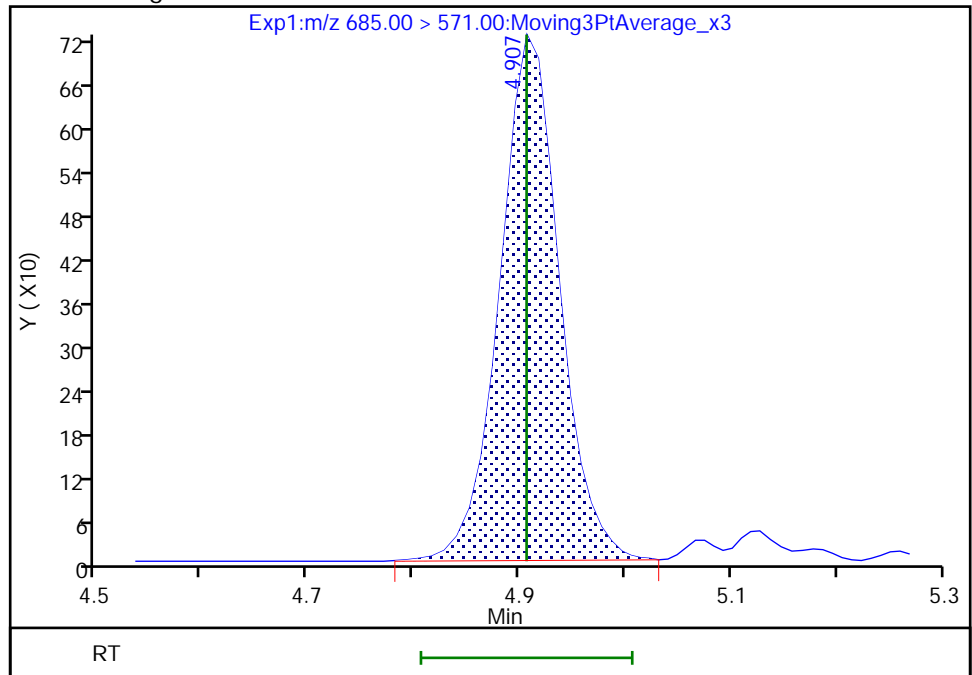
RT: 4.91
Area: 2660
Amount: 0.484100
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 2856
Amount: 0.535505
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 07:44:45
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283897/1 Calibration Date: 08/09/2022 02:46
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.171		0.0414	0.0445	-7.0	50.0
BFS_A3B	Q2ID		1.212		0.0450	0.0498	-9.6	50.0
BFS_B3	L1ID		0.6098		0.146	0.158	-7.7	50.0
BFS_A2B2	L1ID		0.5123		0.260	0.347	-25.2	50.0
BFS_A4B	L1ID		1.674		0.0277	0.0275	0.8	50.0
BFS_AB3	Q2ID		0.7129		0.360	0.372	-3.1	50.0
BFS_A3B2	Q2ID		1.286		0.0639	0.0655	-2.4	50.0
BFS_B4	L1ID		0.5210		0.0922	0.0864	6.7	50.0
BFS_A2B3	Q2ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2143	0.2148		5.01	5.00	0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 09-Aug-2022 02:46:45 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:43 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 08:03:01

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.960	3.960	0.0	0.903	7006	0.0414	93.0	148	M
2 BFS_A3B									M
519.00 > 113.00	4.042	4.042	0.0	0.921	8105	0.0450	90.4	36.8	M
3 BFS_B3									
553.00 > 345.00	4.200	4.200	0.0	0.957	12985	0.1462	92.3	30.4	
4 BFS_A2B2									
569.00 > 229.00	4.304	4.304	0.0	0.981	23890	0.2595	74.8	108	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.388	0.0	0.880	671844	5.01	100	280	
5 BFS_A4B									M
585.00 > 113.00	4.388	4.388	0.0	1.000	6186	0.0277	101	55.7	M
7 BFS_AB3									
619.00 > 229.00	4.564	4.564	0.0	1.040	35631	0.3604	96.9	167	
8 BFS_A3B2									
635.00 > 113.00	4.657	4.657	0.0	1.061	11313	0.0639	97.6	99.9	
9 BFS_B4									M
669.00 > 461.00	4.793	4.793	0.0	1.092	6052	0.0922	107	18.6	M
* 11 13C2 PFOA									
415.00 > 370.00	4.988	4.988	0.0		3128234	5.00		325	

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d

Injection Date: 09-Aug-2022 02:46:45

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

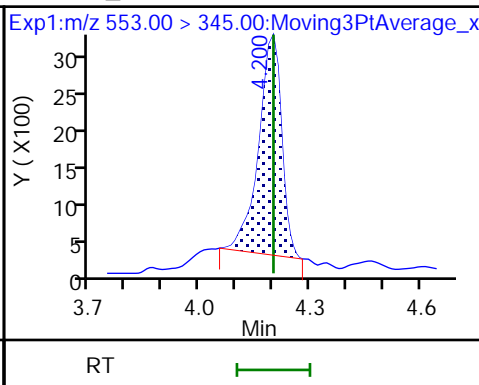
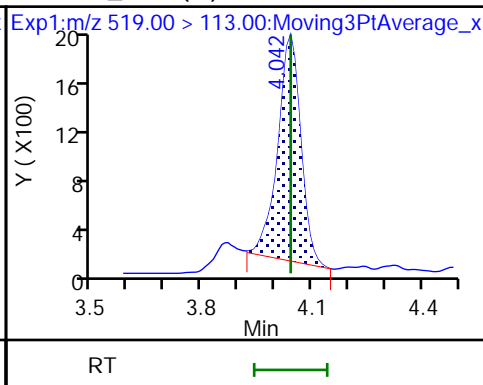
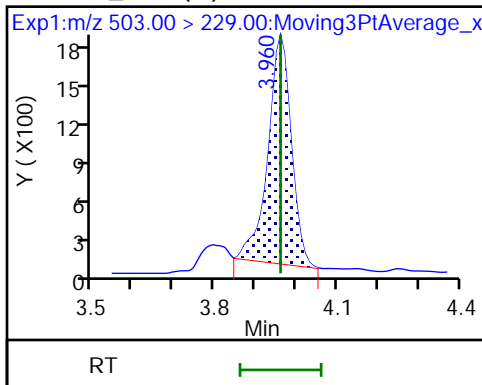
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

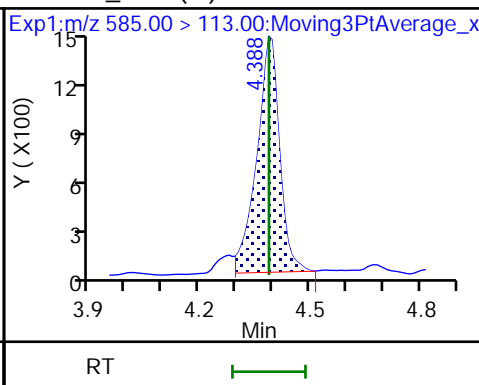
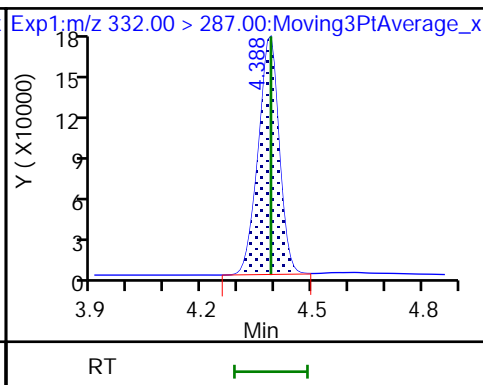
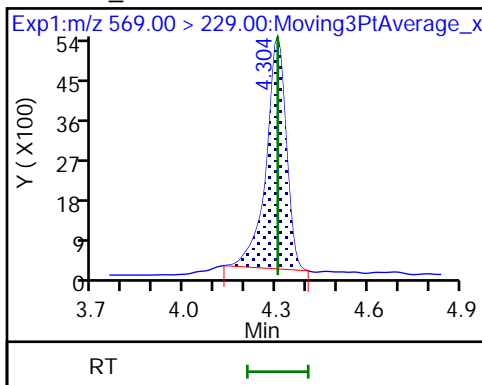
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

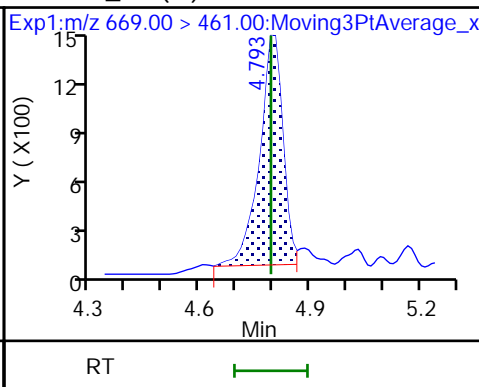
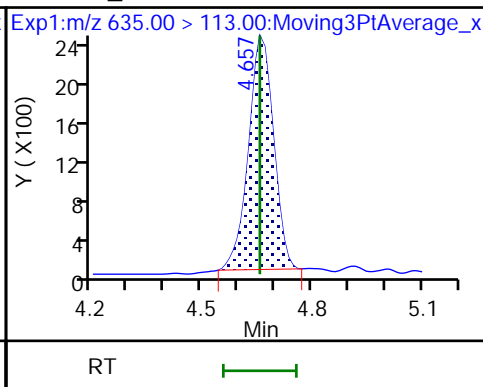
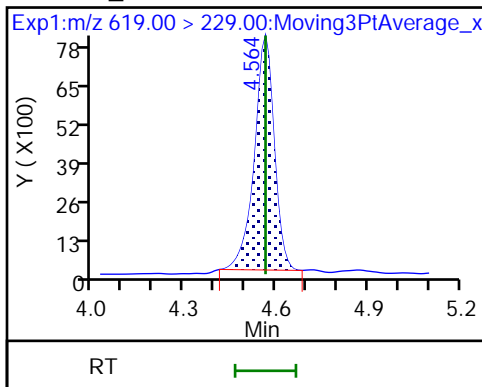
5 BFS_A4B (M)



7 BFS_AB3

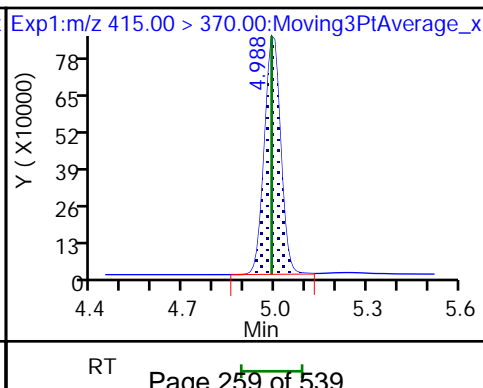
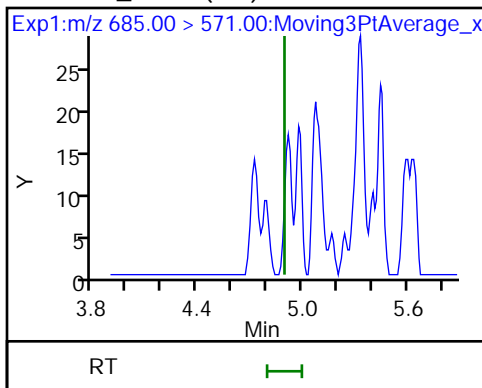
8 BFS_A3B2

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

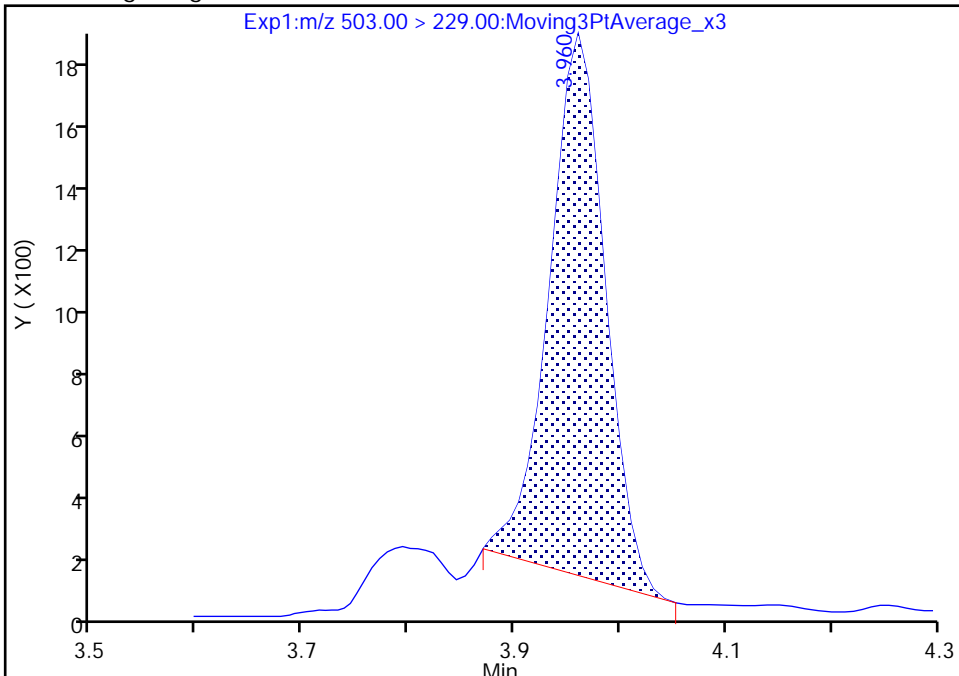
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Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

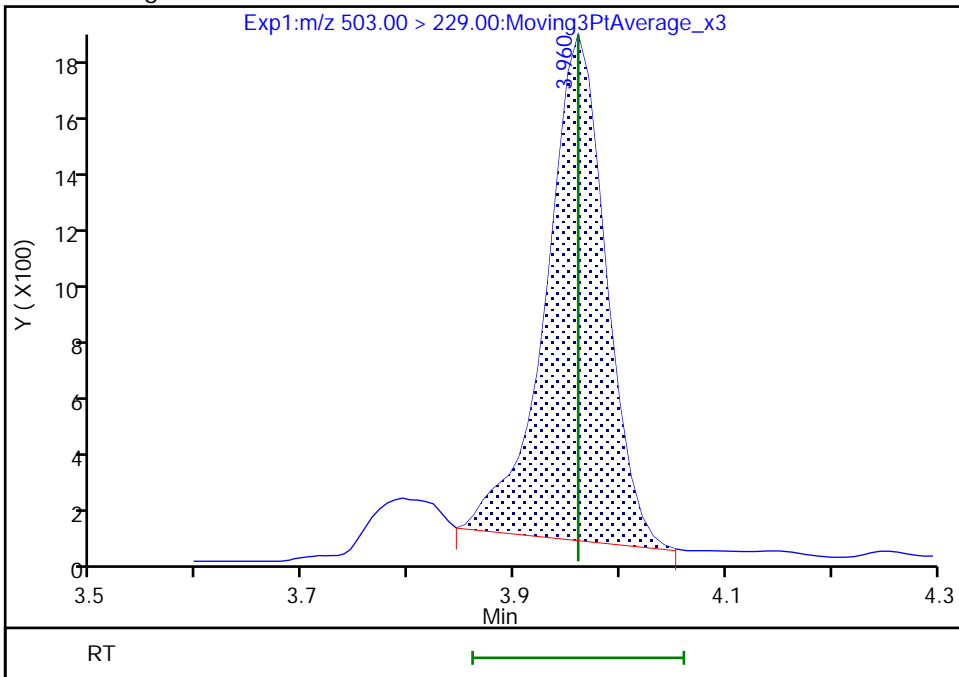
RT: 3.96
Area: 6323
Amount: 0.037565
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 7006
Amount: 0.041431
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:00
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

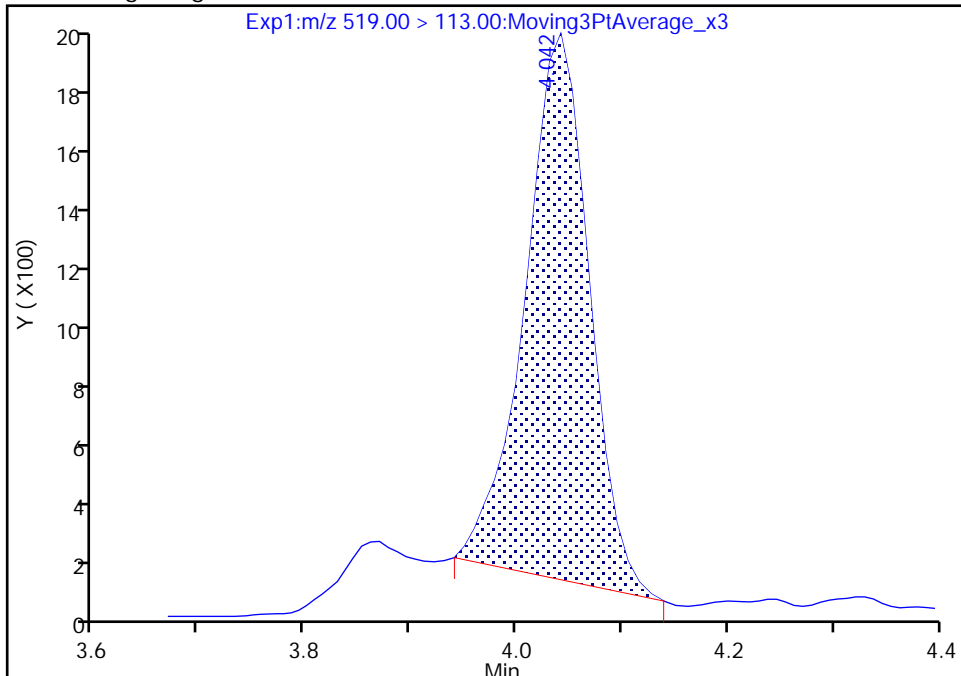
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

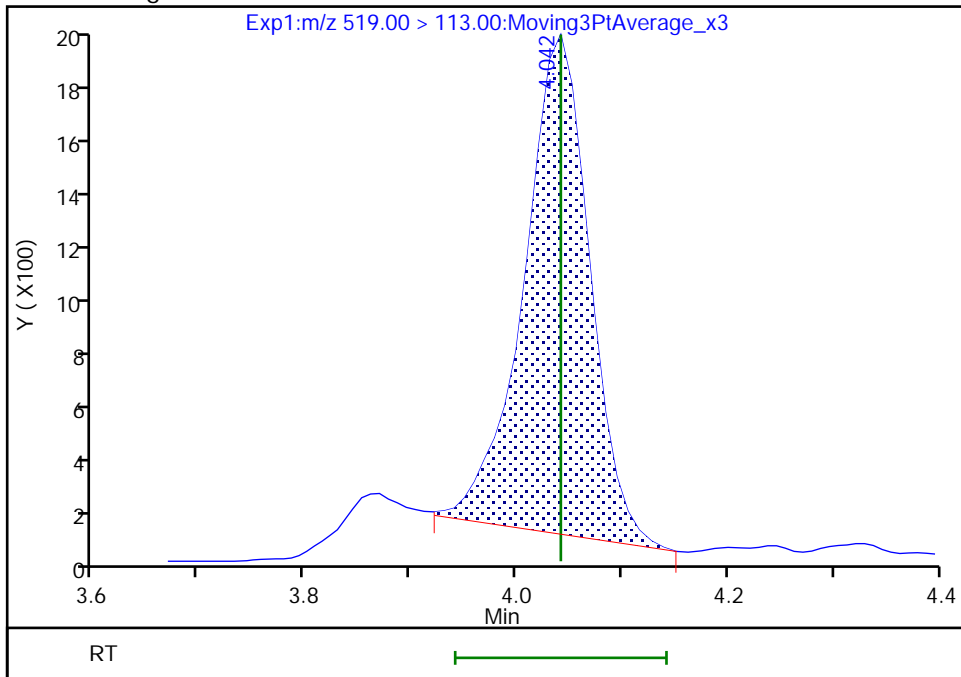
RT: 4.04
Area: 7798
Amount: 0.103994
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 8105
Amount: 0.044974
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:05
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

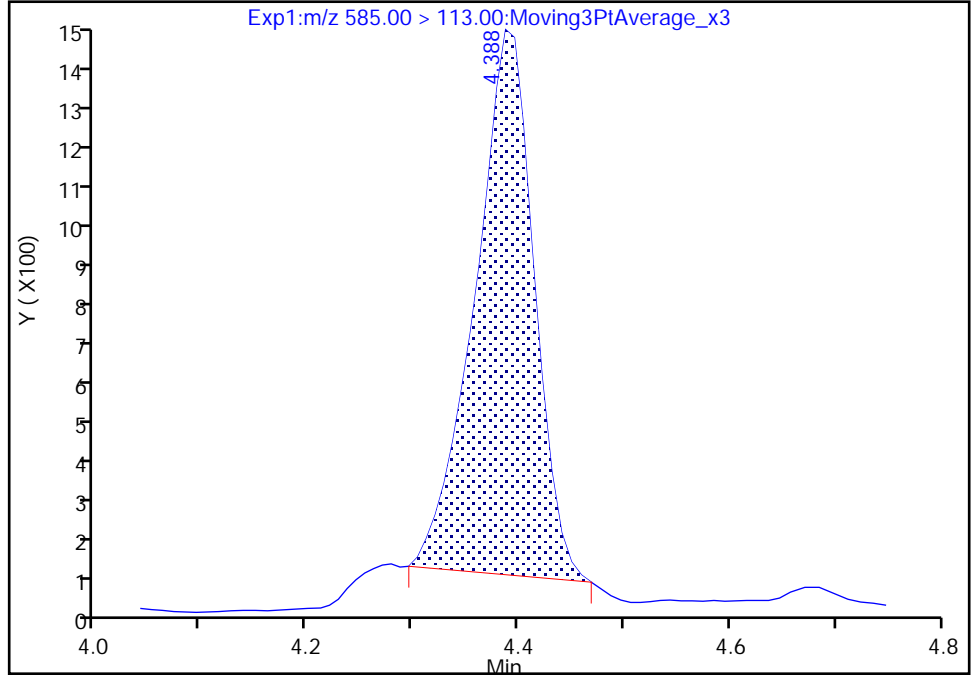
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d
Injection Date: 09-Aug-2022 02:46:45 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

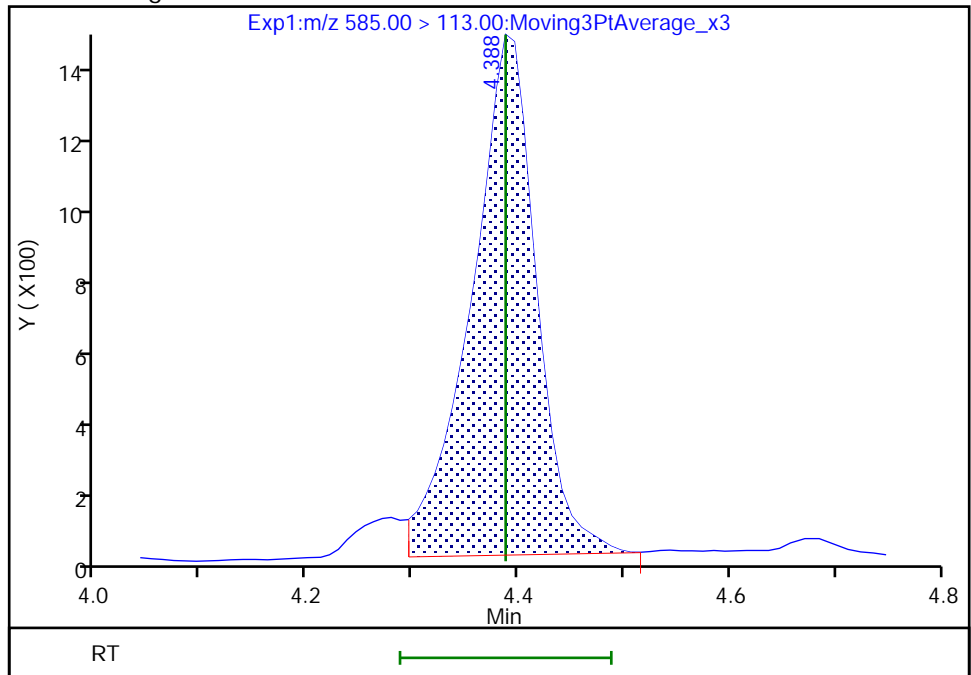
RT: 4.39
Area: 5312
Amount: 0.024389
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 6186
Amount: 0.027733
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:19
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

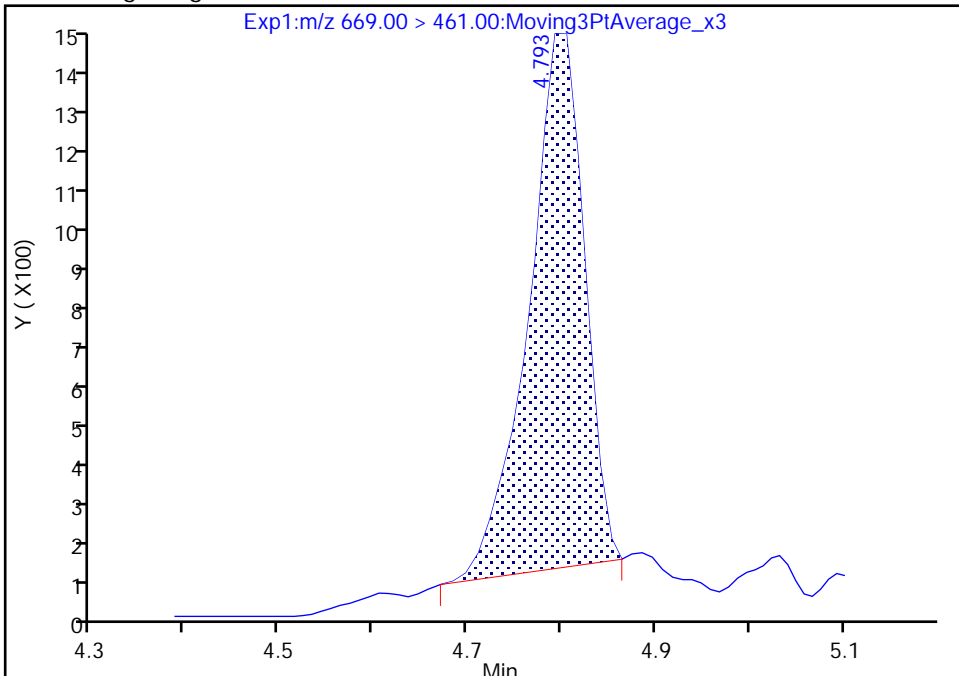
Data File:	\\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-01.d		
Injection Date:	09-Aug-2022 02:46:45	Instrument ID:	30733
Lims ID:	CCVL 1_CAL1		
Client ID:			
Operator ID:	US19_USR_INS20260	ALS Bottle#:	2
Injection Vol:	10.0 ul	Dil. Factor:	1.0000
Method:	BFS_IDA_30733	Limit Group:	LC - BFS_IDA
Column:		Detector:	EXP1
		Worklist Smp#:	1

9 BFS_B4, CAS: STL02886

Signal: 1

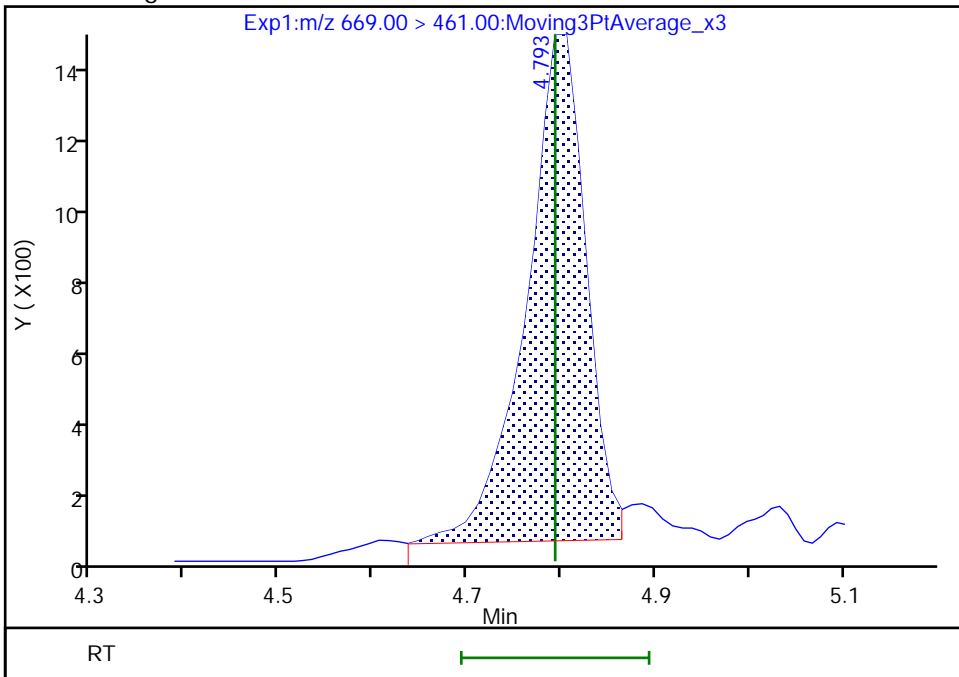
RT: 4.79
 Area: 5384
 Amount: 0.081313
 Amount Units: ng/ml

Processing Integration Results



RT: 4.79
 Area: 6052
 Amount: 0.092213
 Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 08:18:26
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/29 Calibration Date: 08/09/2022 08:39
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-29.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.602		2.17	1.78	21.6	30.0
BFS_A3B	Q2ID		1.782		2.38	1.99	19.7	30.0
BFS_B3	L1ID		0.9547		7.18	6.34	13.2	30.0
BFS_A2B2	L1ID		0.6485		15.8	13.9	14.1	30.0
BFS_A4B	L1ID		2.084		1.18	1.10	7.5	30.0
BFS_AB3	Q2ID		0.8399		16.4	14.9	10.5	30.0
BFS_A3B2	Q2ID		1.561		2.90	2.62	10.6	30.0
BFS_B4	L1ID		0.5000		3.78	3.46	9.4	30.0
BFS_A2B3	Q2ID		0.0450		0.272	0.262	3.8	30.0
13C3 HFPO-DA	Ave	0.2143	0.2168		5.06	5.00	1.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-29.d
 Lims ID: CCV 5_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 08:39:20 ALS Bottle#: 6 Worklist Smp#: 29
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 5_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-029
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:30:48 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 10:10:12

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.961	3.961	0.0	0.903	365031	2.17	122	2908
2 BFS_A3B	519.00 > 113.00	4.042	4.042	0.0	0.921	453679	2.38	120	174
3 BFS_B3	553.00 > 345.00	4.200	4.200	0.0	0.957	773915	7.18	113	144
4 BFS_A2B2	569.00 > 229.00	4.305	4.305	0.0	0.981	1151449	15.8	114	164
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.388	0.0	0.878	639424	5.06	101	261
5 BFS_A4B	585.00 > 113.00	4.388	4.388	0.0	1.000	293223	1.18	108	171
7 BFS_AB3	619.00 > 229.00	4.565	4.565	0.0	1.040	1598074	16.4	111	199
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.062	522782	2.90	111	205
9 BFS_B4	669.00 > 461.00	4.805	4.805	0.0	1.095	221100	3.78	109	189
10 BFS_A2B3	685.00 > 571.00	4.896	4.896	0.0	1.116	1509	0.2719	104	32.0 M
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		2949271	5.00		312

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-29.d

Injection Date: 09-Aug-2022 08:39:20

Instrument ID: 30733

Lims ID: CCV 5_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 29

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

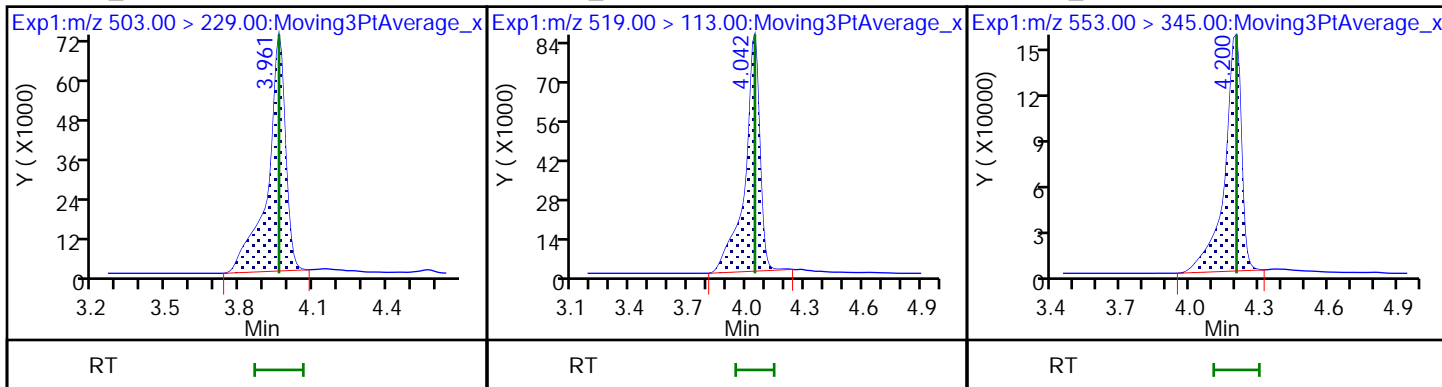
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

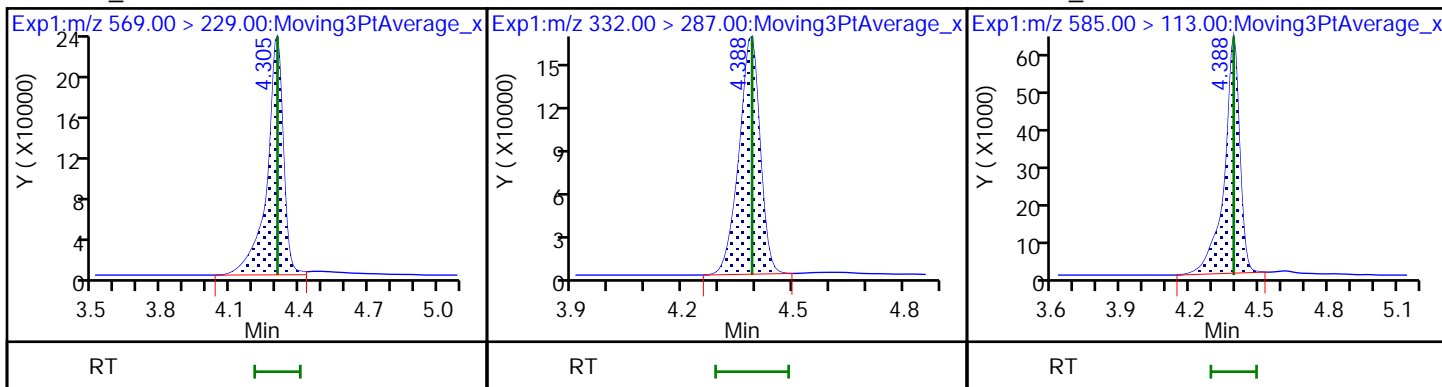
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

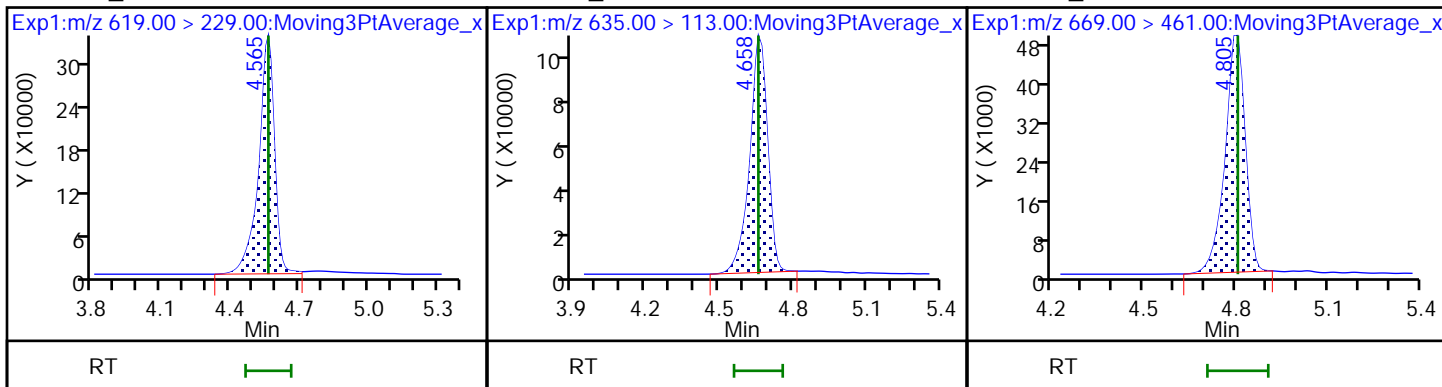
5 BFS_A4B



7 BFS_AB3

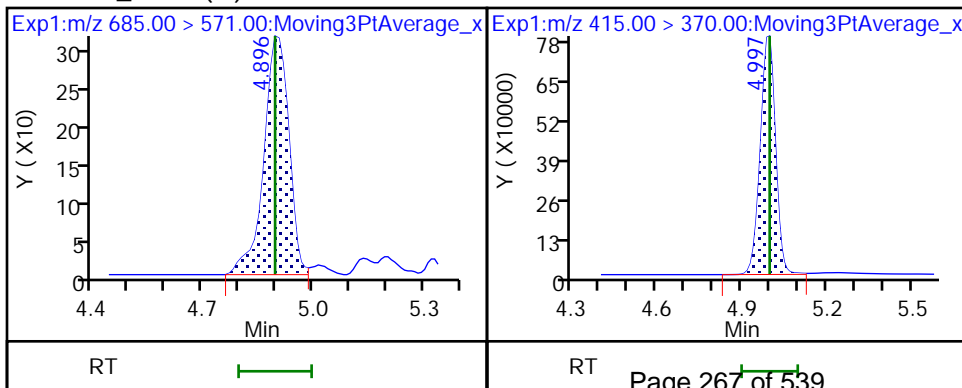
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

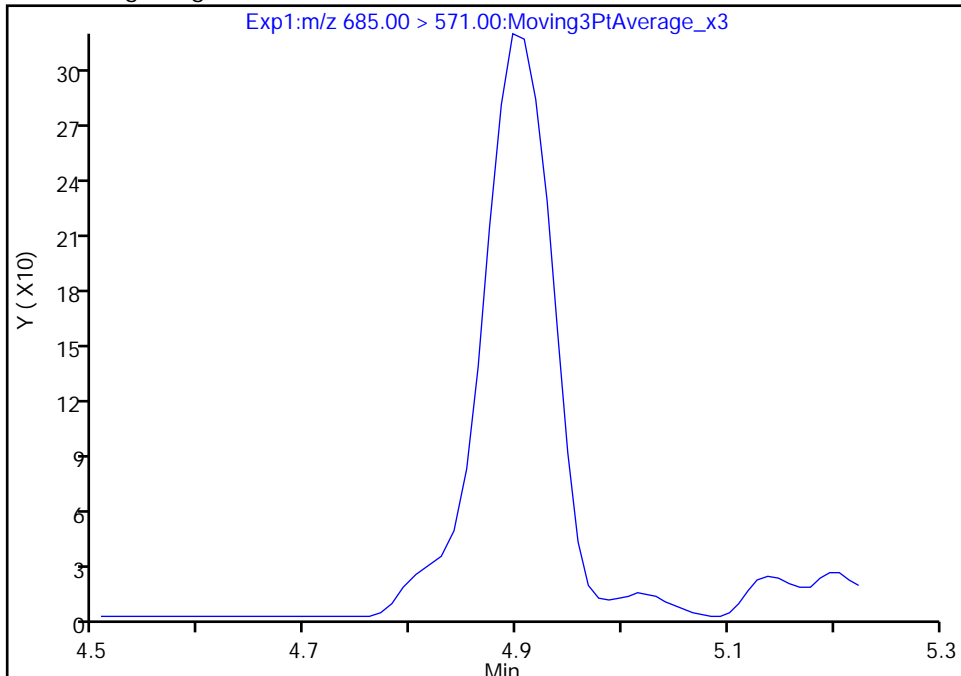
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Injection Date: 09-Aug-2022 08:39:20 Instrument ID: 30733
Lims ID: CCV 5_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 29
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

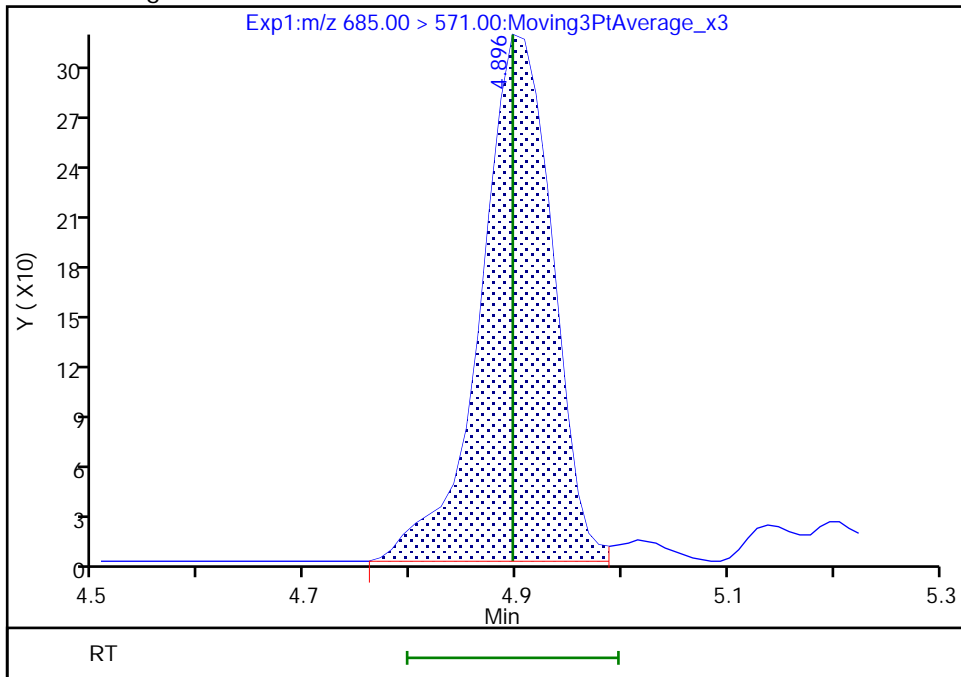
Signal: 1

Not Detected
Expected RT: 4.90

Processing Integration Results



Manual Integration Results



RT: 4.90
Area: 1509
Amount: 0.271870
Amount Units: ng/ml

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/41 Calibration Date: 08/09/2022 11:10
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-41.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.550		5.22	4.45	17.1	30.0
BFS_A3B	Q2ID		1.753		5.82	4.98	16.9	30.0
BFS_B3	L1ID		0.9536		17.9	15.8	12.8	30.0
BFS_A2B2	L1ID		0.6394		39.1	34.7	12.7	30.0
BFS_A4B	L1ID		2.140		3.03	2.75	10.2	30.0
BFS_AB3	Q2ID		0.8202		40.3	37.2	8.5	30.0
BFS_A3B2	Q2ID		1.613		7.49	6.55	14.4	30.0
BFS_B4	L1ID		0.5615		10.6	8.64	23.0	30.0
BFS_A2B3	Q2ID		0.0573		0.878	0.655	34.1*	30.0
13C3 HFPO-DA	Ave	0.2143	0.2119		4.94	5.00	-1.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-41.d
 Lims ID: CCV 6_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 11:10:37 ALS Bottle#: 7 Worklist Smp#: 41
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 6_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-041
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 12:33:57 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:33:30

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.960	3.961	-0.001	0.903	890464	5.22	117	4299
2 BFS_A3B	519.00 > 113.00	4.042	4.042	0.0	0.921	1125302	5.82	117	177
3 BFS_B3	553.00 > 345.00	4.200	4.200	0.0	0.957	1949036	17.9	113	135
4 BFS_A2B2	569.00 > 229.00	4.304	4.305	-0.001	0.981	2862022	39.1	113	135
5 BFS_A4B	585.00 > 113.00	4.388	4.388	0.0	1.000	759146	3.03	110	199
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.388	0.0	0.878	644866	4.94	98.9	306
7 BFS_AB3	619.00 > 229.00	4.564	4.565	-0.001	1.040	3934616	40.3	108	221
8 BFS_A3B2	635.00 > 113.00	4.658	4.658	0.0	1.061	1362148	7.49	114	206
9 BFS_B4	669.00 > 461.00	4.804	4.805	-0.001	1.095	626019	10.6	123	257
10 BFS_A2B3	685.00 > 571.00	4.907	4.896	0.011	1.118	4840	0.8785	134	114 M
* 11 13C2 PFOA	415.00 > 370.00	4.996	4.997	-0.001		3043415	5.00		330

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-41.d

Injection Date: 09-Aug-2022 11:10:37

Instrument ID: 30733

Lims ID: CCV_6_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 41

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

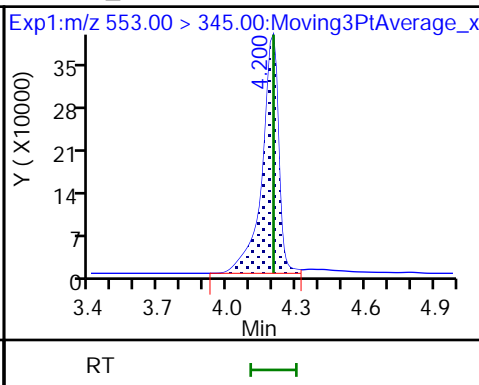
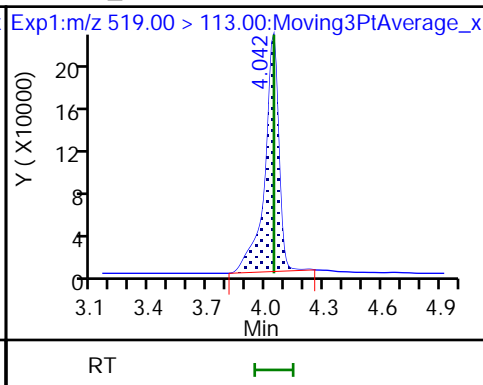
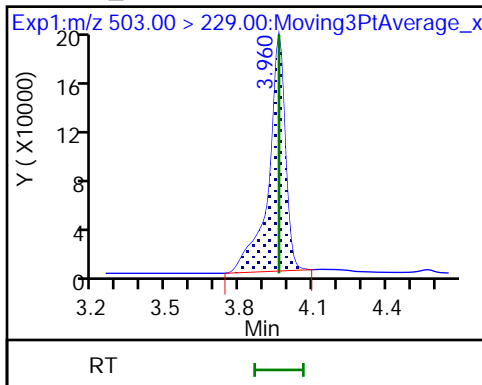
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

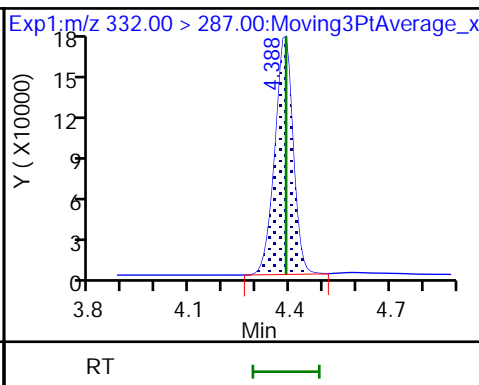
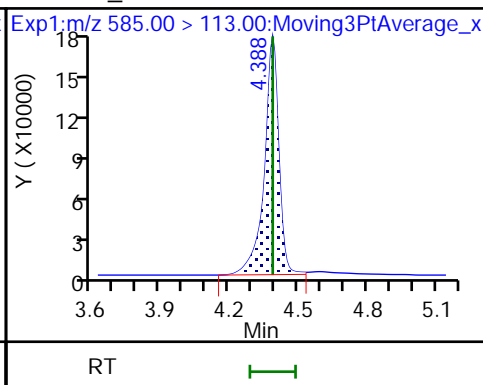
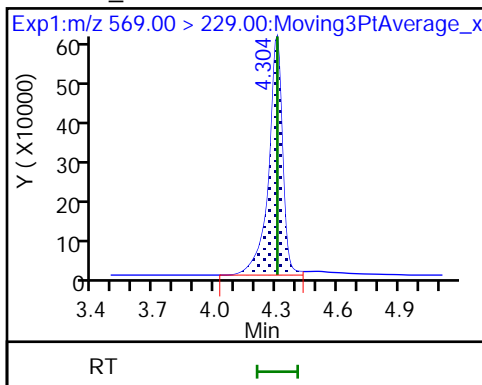
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B

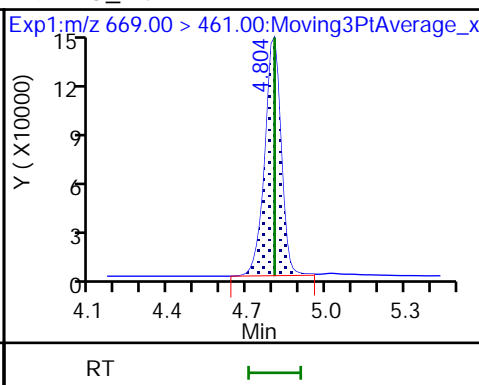
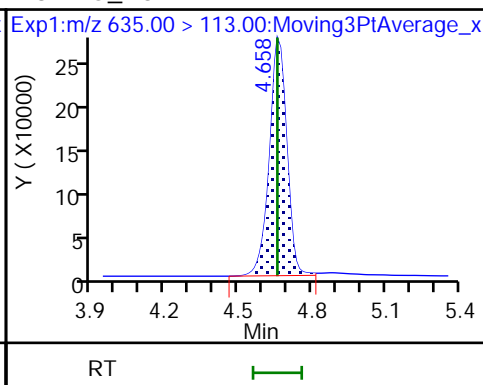
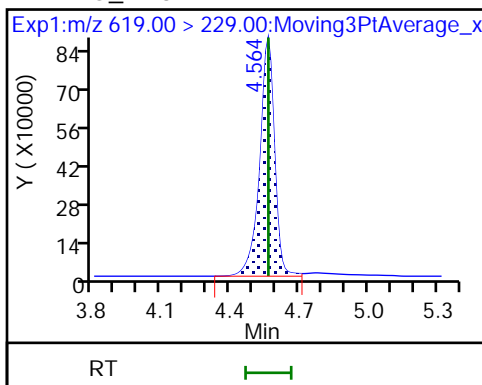
D 6 13C3 HFPO-DA



7 BFS_AB3

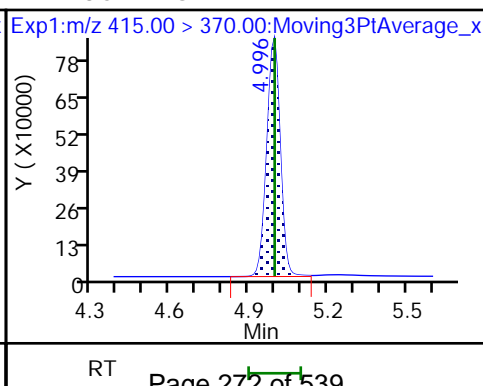
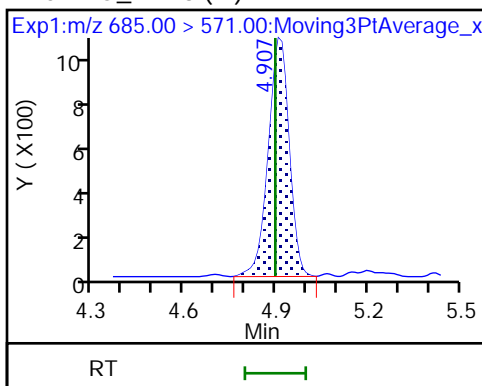
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

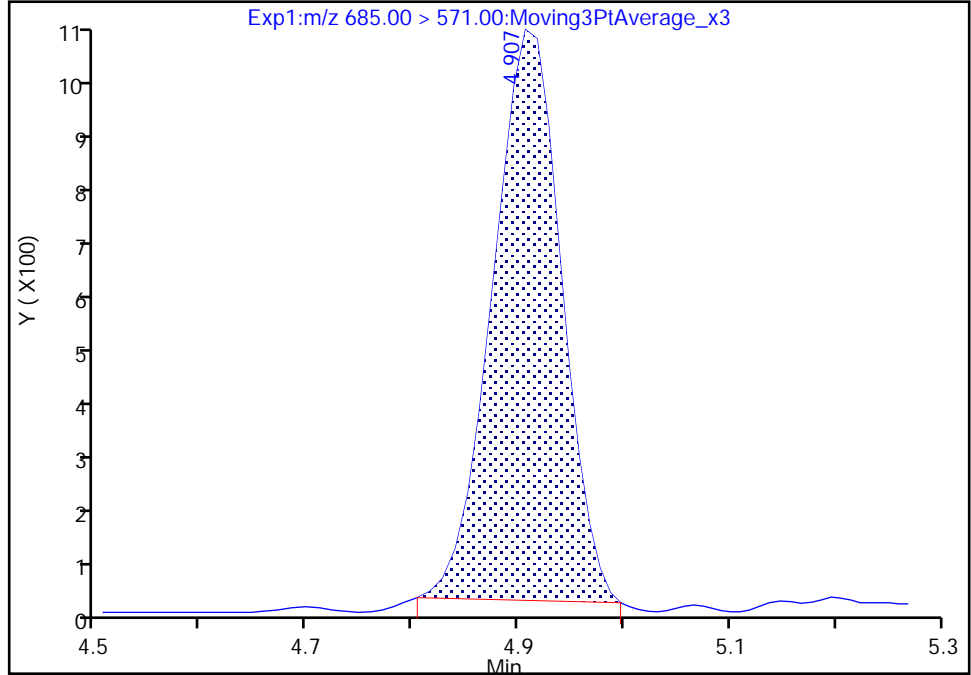
Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-41.d
Injection Date: 09-Aug-2022 11:10:37 Instrument ID: 30733
Lims ID: CCV 6_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 41
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

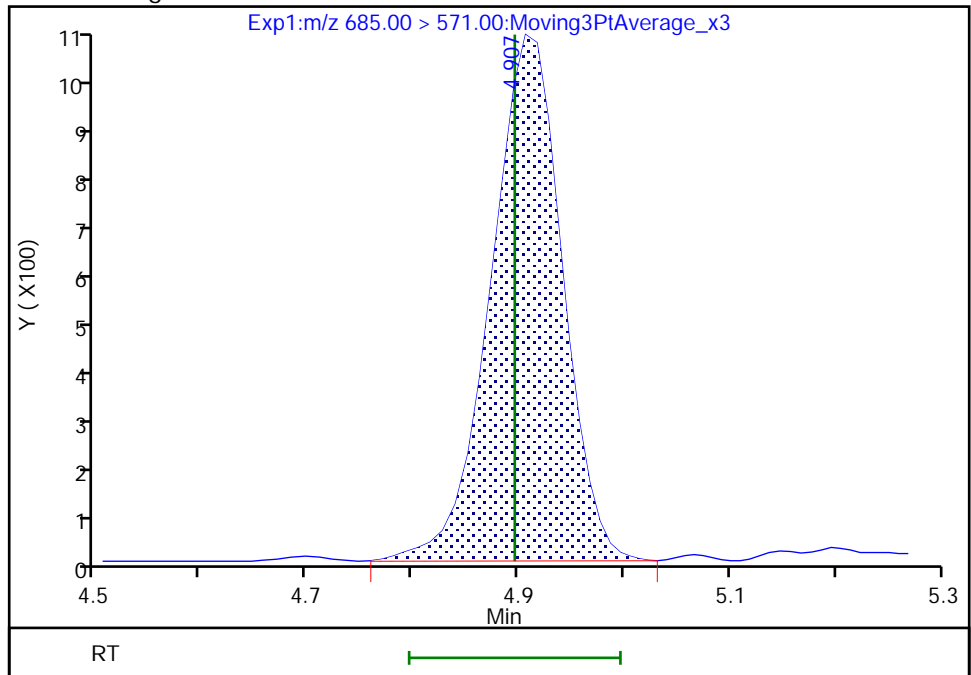
RT: 4.91
Area: 4556
Amount: 0.826717
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 4840
Amount: 0.878491
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 09-Aug-2022 12:33:53
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 273 of 539

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283897/48 Calibration Date: 08/09/2022 12:38
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG05BFS-48.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.605		10.7	8.91	20.3	30.0
BFS_A3B	Q2ID		1.776		11.7	9.95	17.2	30.0
BFS_B3	L1ID		0.9267		34.7	31.7	9.5	30.0
BFS_A2B2	L1ID		0.6486		79.4	69.4	14.4	30.0
BFS_A4B	L1ID		2.125		6.01	5.50	9.3	30.0
BFS_AB3	Q2ID		0.8209		81.5	74.4	9.5	30.0
BFS_A3B2	Q2ID		1.555		14.5	13.1	10.6	30.0
BFS_B4	L1ID		0.5256		19.9	17.3	15.2	30.0
BFS_A2B3	Q2ID		0.0478		1.47	1.31	12.0	30.0
13C3 HFPO-DA	Ave	0.2143	0.2089		4.88	5.00	-2.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-48.d
 Lims ID: CCV 7_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Aug-2022 12:38:55 ALS Bottle#: 8 Worklist Smp#: 48
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 7_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-048
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 13:41:45 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 13:41:40

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.960	3.961	-0.001	0.903	1847232	10.7	120	5052
2 BFS_A3B	519.00 > 113.00	4.042	4.042	0.0	0.921	2284732	11.7	117	141
3 BFS_B3	553.00 > 345.00	4.200	4.200	0.0	0.957	3796555	34.7	110	150
4 BFS_A2B2	569.00 > 229.00	4.304	4.305	-0.001	0.981	5819867	79.4	114	165
5 BFS_A4B	585.00 > 113.00	4.388	4.388	0.0	1.000	1511060	6.01	109	194
D 6 13C3 HFPO-DA	332.00 > 287.00	4.388	4.388	0.0	0.878	646307	4.88	97.5	301
7 BFS_AB3	619.00 > 229.00	4.564	4.565	-0.001	1.040	7894158	81.5	110	222
8 BFS_A3B2	635.00 > 113.00	4.657	4.658	-0.001	1.061	2633043	14.5	111	222
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.092	1174572	19.9	115	243
10 BFS_A2B3	685.00 > 571.00	4.907	4.896	0.011	1.118	8094	1.47	112	190
* 11 13C2 PFOA	415.00 > 370.00	4.997	4.997	0.0		3093790	5.00		341

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-48.d

Injection Date: 09-Aug-2022 12:38:55

Instrument ID: 30733

Lims ID: CCV 7_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 48

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

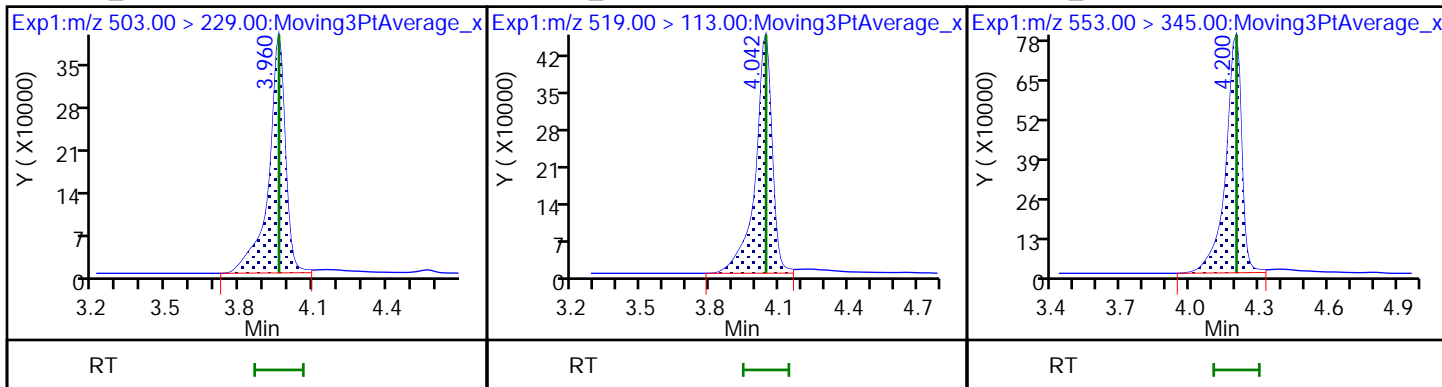
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

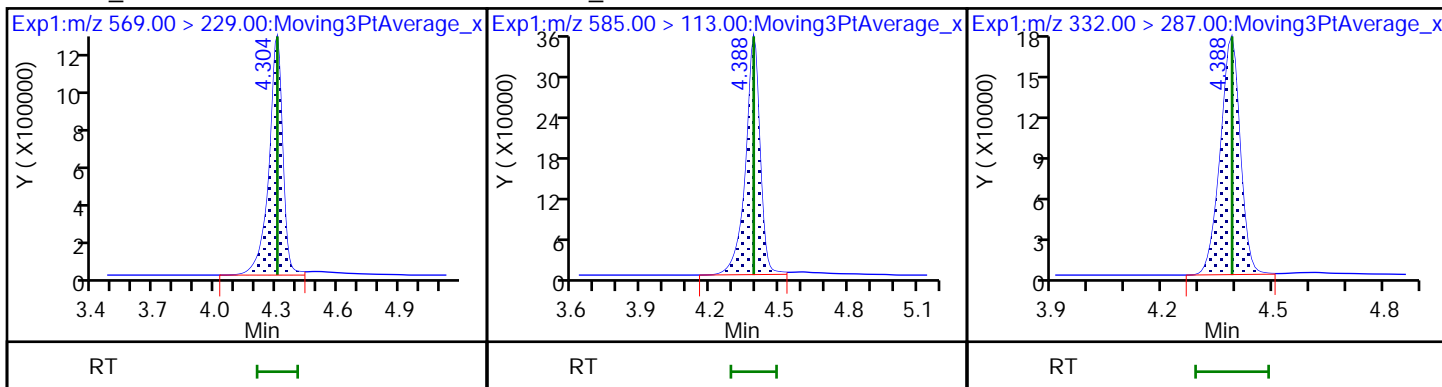
3 BFS_B3



4 BFS_A2B2

5 BFS_A4B

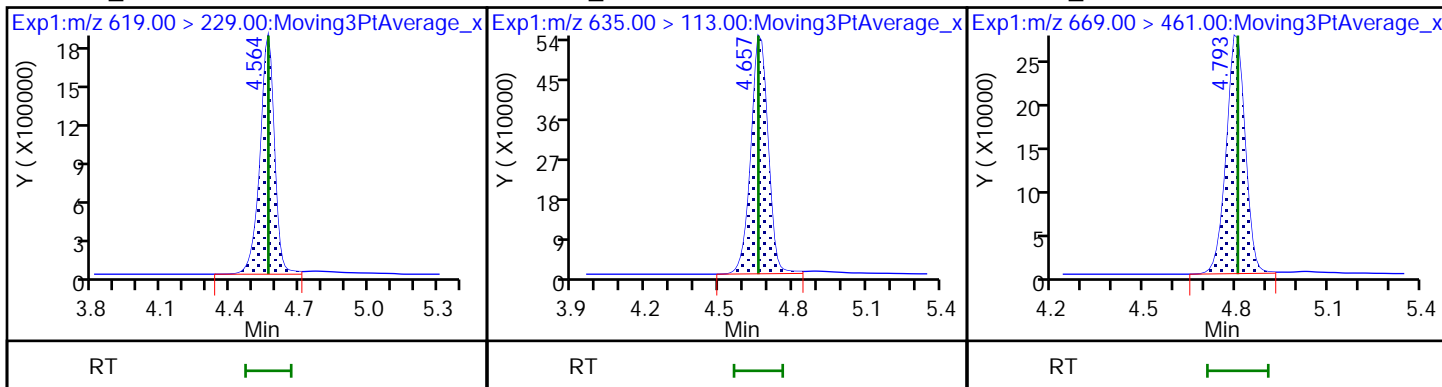
D 6 13C3 HFPO-DA



7 BFS_AB3

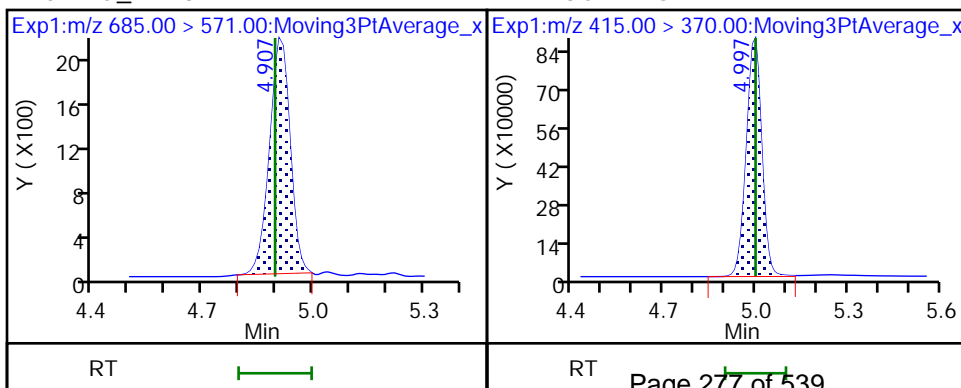
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-284260/1 Calibration Date: 08/10/2022 02:25
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG09BFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.307		0.0460	0.0445	3.4	50.0
BFS_A3B	Q2ID		1.485		0.0541	0.0498	8.8	50.0
BFS_B3	L1ID		0.8013		0.182	0.158	14.9	50.0
BFS_A2B2	L1ID		0.5918		0.308	0.347	-11.2	50.0
BFS_A4B	L1ID		2.116		0.0340	0.0275	23.6	50.0
BFS_AB3	Q2ID		0.7787		0.392	0.372	5.5	50.0
BFS_A3B2	Q2ID		1.553		0.0763	0.0655	16.5	50.0
BFS_B4	L1ID		0.5058		0.0893	0.0864	3.3	50.0
BFS_A2B3	Q2ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2143	0.2191		5.11	5.00	2.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 10-Aug-2022 02:25:07 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:56 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 11:06:34

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.971	3.971	0.0	0.905	7373	0.0460	103	176	M
2 BFS_A3B									M
519.00 > 113.00	4.045	4.045	0.0	0.921	9366	0.0541	109	76.4	M
3 BFS_B3									M
553.00 > 345.00	4.203	4.203	0.0	0.957	16090	0.1821	115	41.8	M
4 BFS_A2B2									
569.00 > 229.00	4.315	4.315	0.0	0.983	26025	0.3082	88.8	115	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.390	4.390	0.0	0.879	633523	5.11	102	312	
5 BFS_A4B									M
585.00 > 113.00	4.399	4.399	0.0	1.002	7375	0.0340	124	108	M
7 BFS_AB3									
619.00 > 229.00	4.567	4.567	0.0	1.040	36699	0.3925	106	222	
8 BFS_A3B2									
635.00 > 113.00	4.674	4.674	0.0	1.065	12888	0.0763	117	135	
9 BFS_B4									
669.00 > 461.00	4.805	4.805	0.0	1.094	5540	0.0893	103	21.2	
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.0		2891998	5.00		327	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d

Injection Date: 10-Aug-2022 02:25:07

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

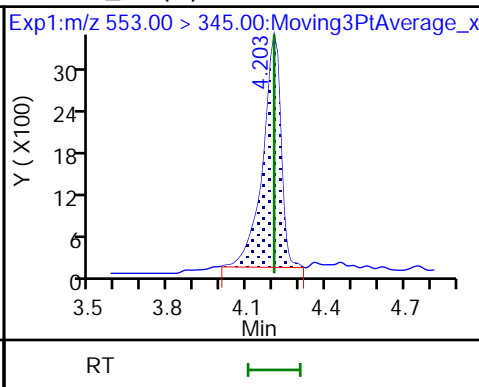
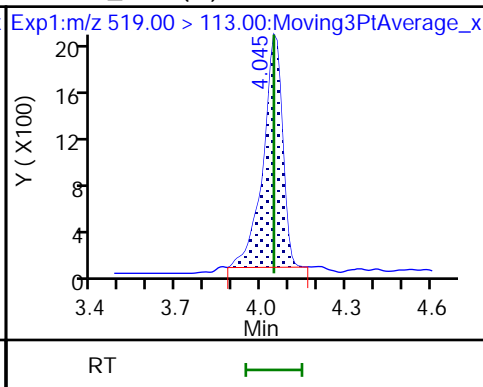
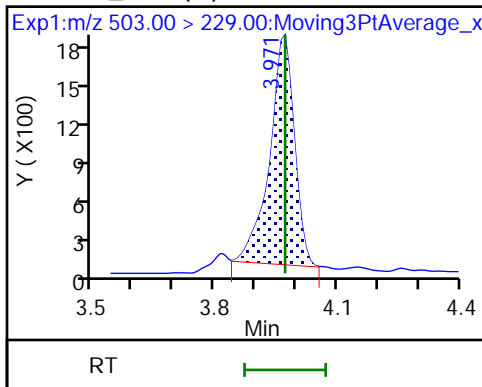
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

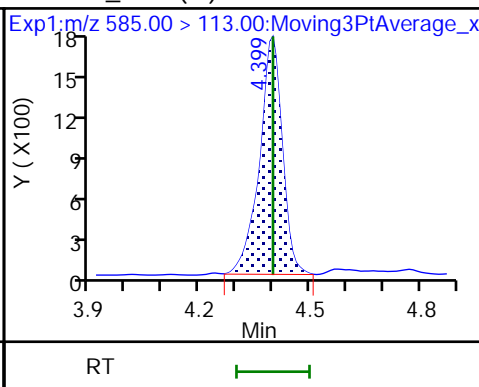
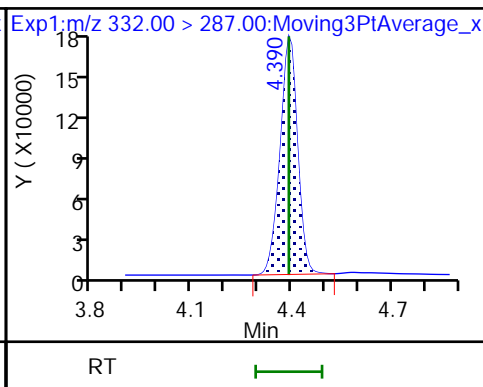
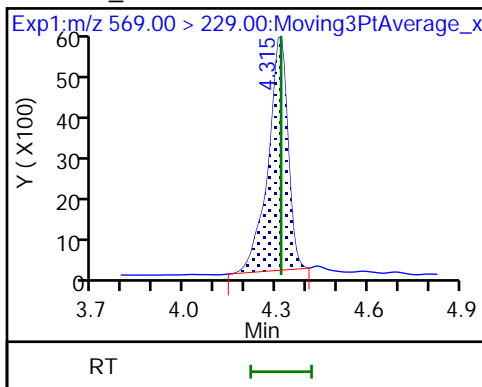
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

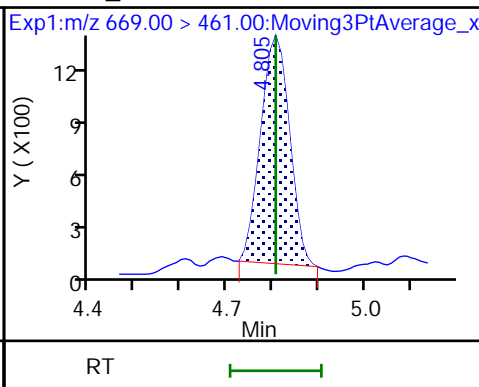
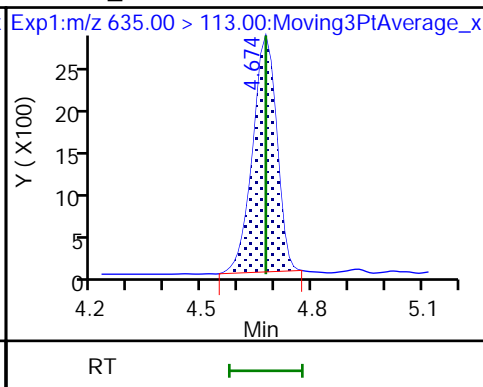
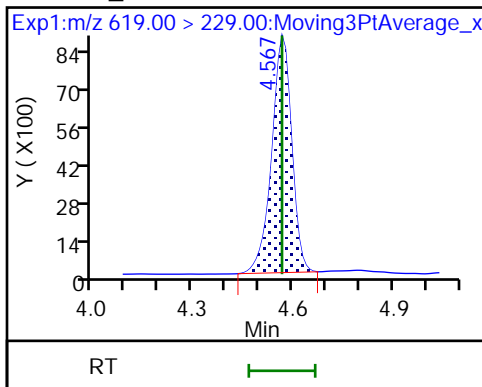
5 BFS_A4B (M)



7 BFS_AB3

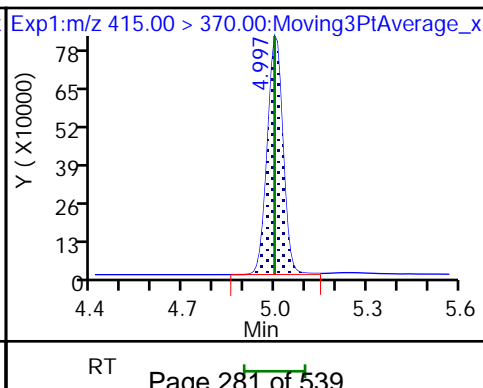
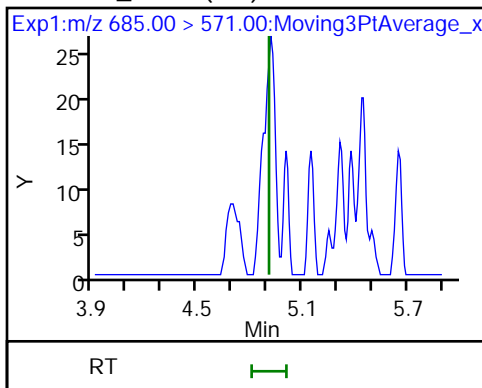
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

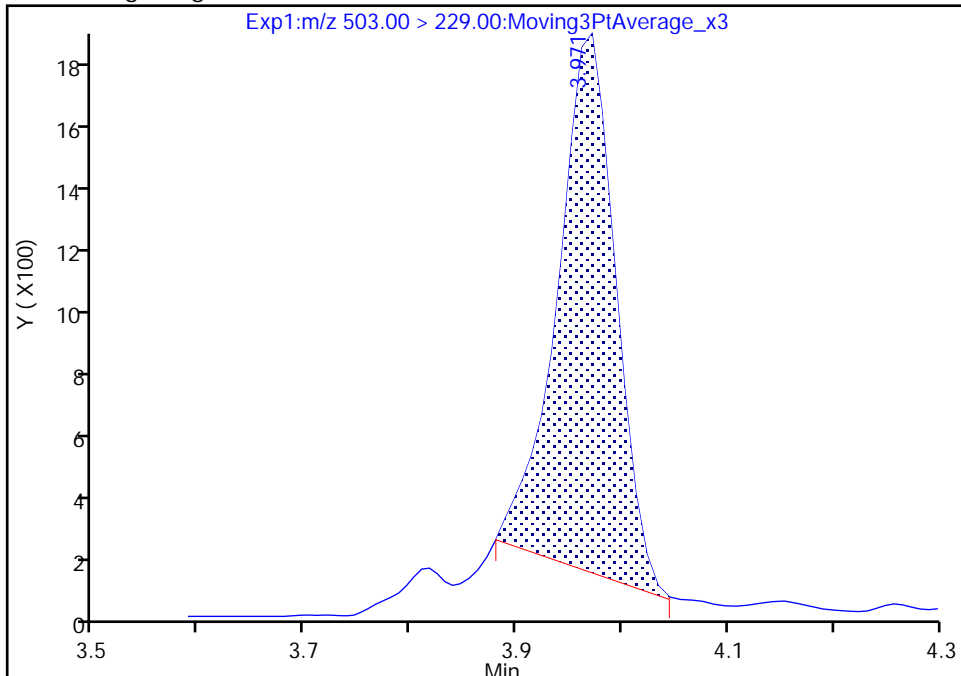
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d
Injection Date: 10-Aug-2022 02:25:07 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

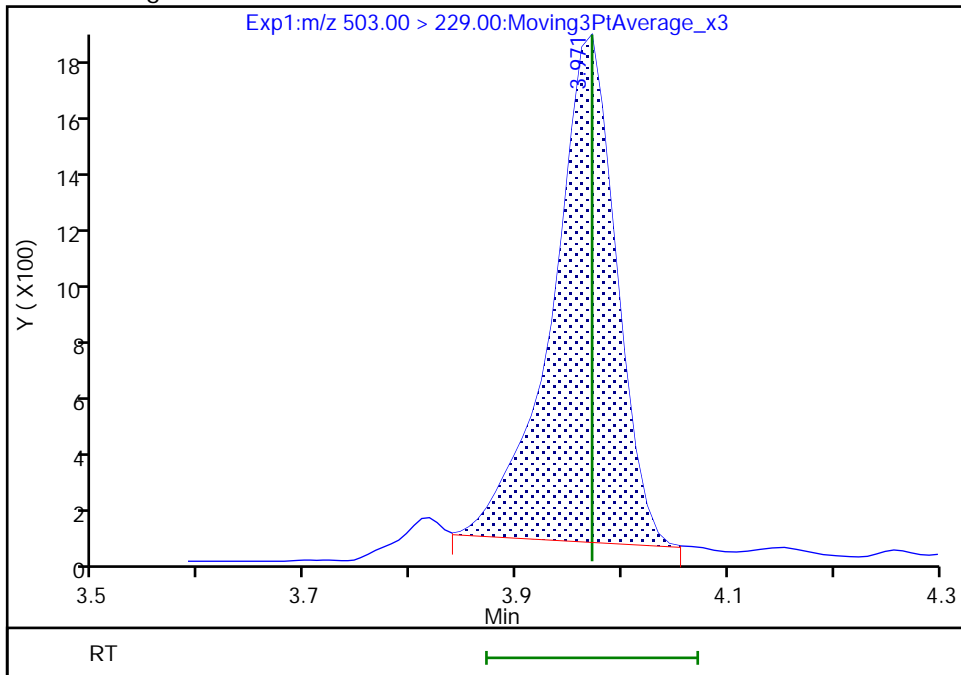
RT: 3.97
Area: 6441
Amount: 0.040438
Amount Units: ng/ml

Processing Integration Results



RT: 3.97
Area: 7373
Amount: 0.046032
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:15
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

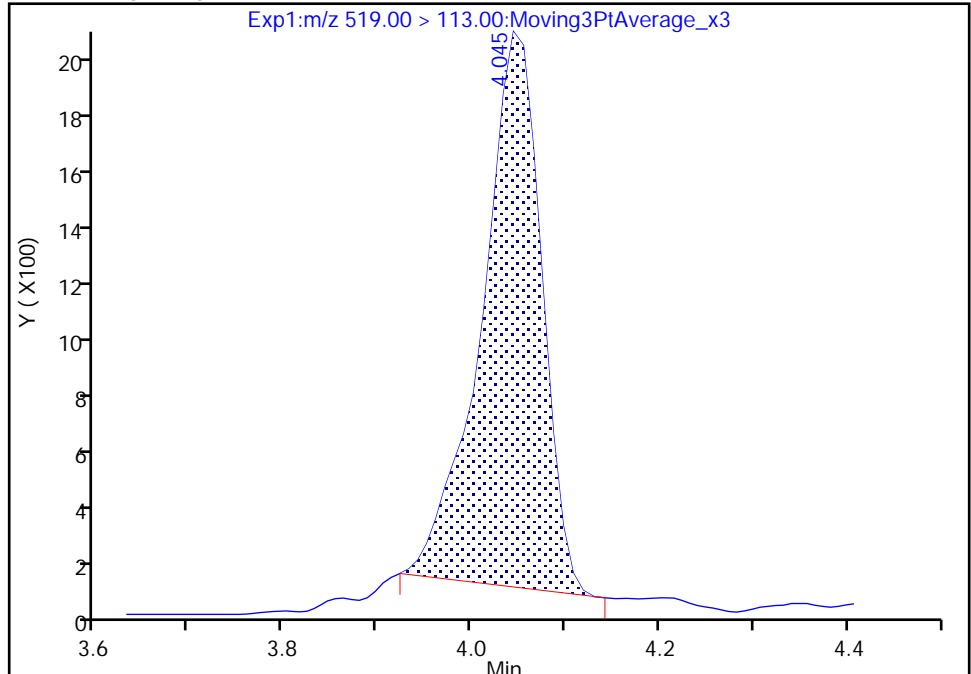
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d
Injection Date: 10-Aug-2022 02:25:07 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

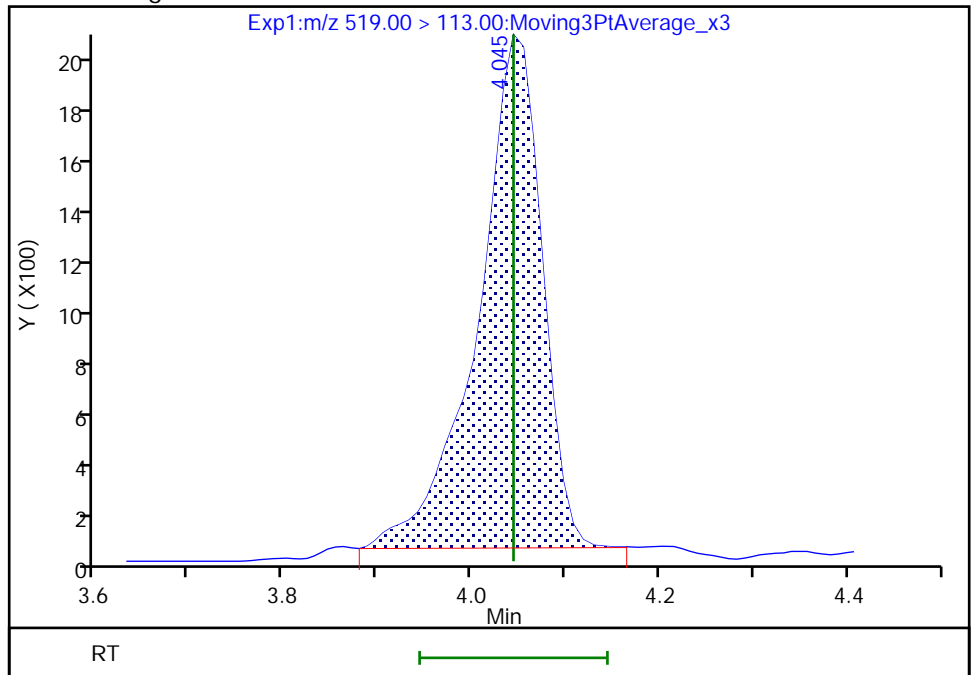
RT: 4.04
Area: 8595
Amount: 0.050031
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 9366
Amount: 0.054125
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:19
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

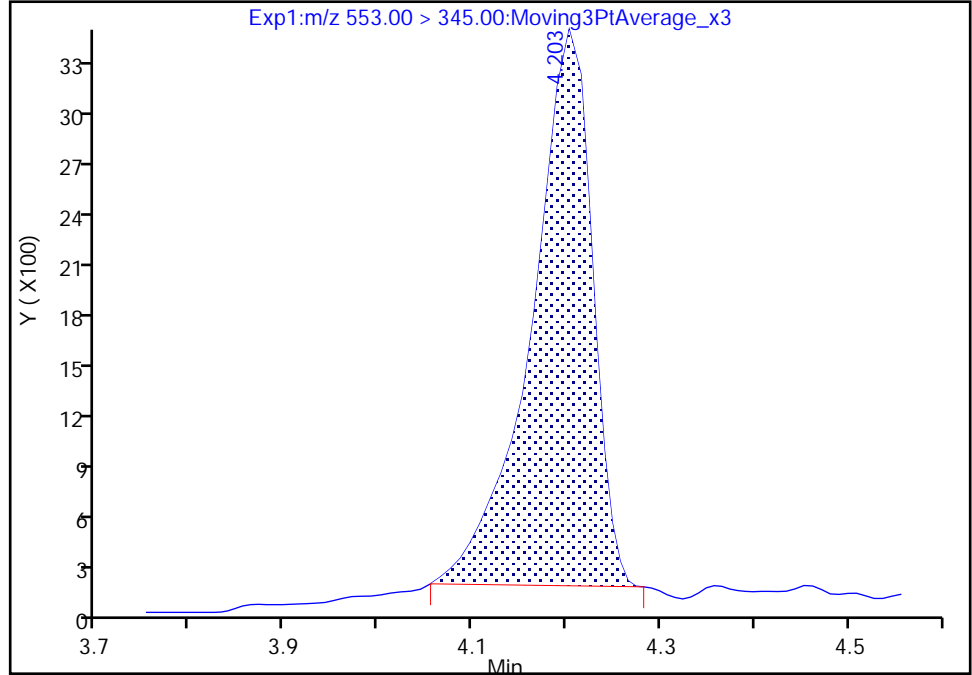
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d
Injection Date: 10-Aug-2022 02:25:07 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

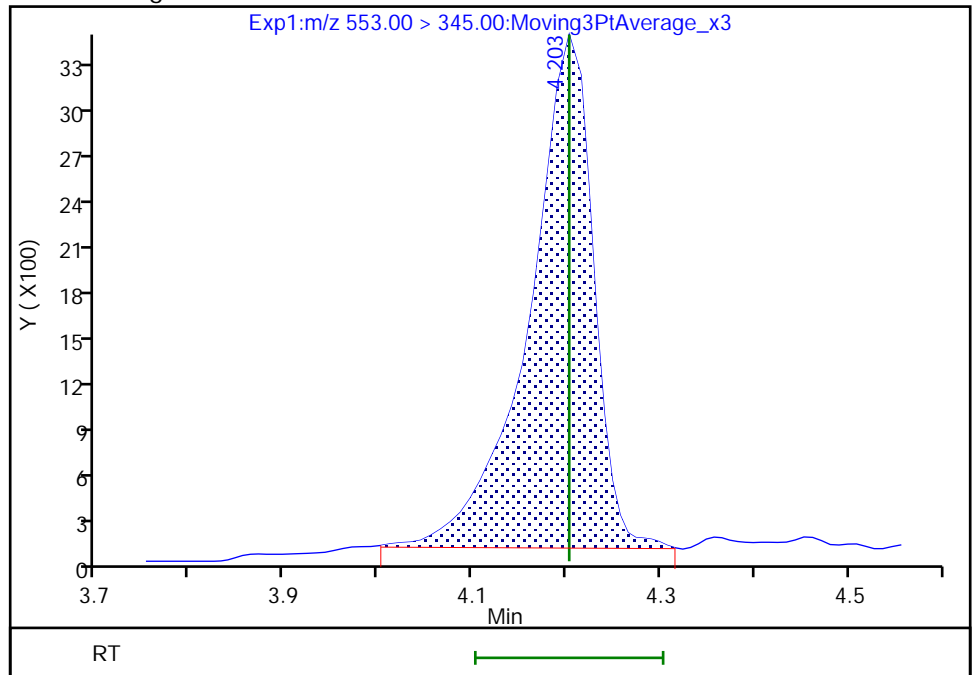
RT: 4.20
Area: 14896
Amount: 0.170944
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 16090
Amount: 0.182070
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:24
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

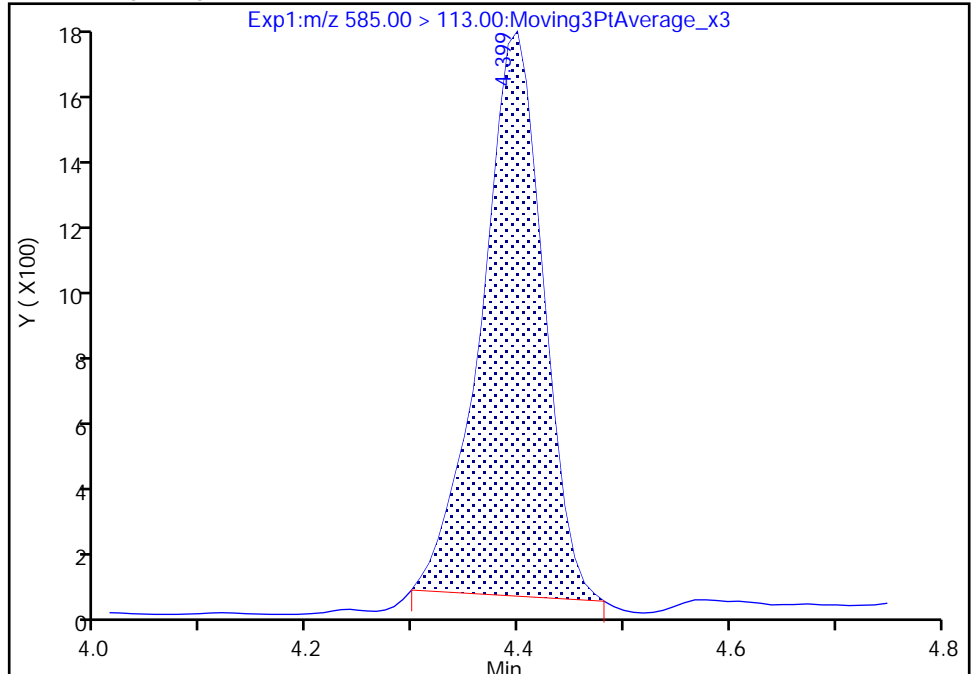
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-01.d
Injection Date: 10-Aug-2022 02:25:07 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

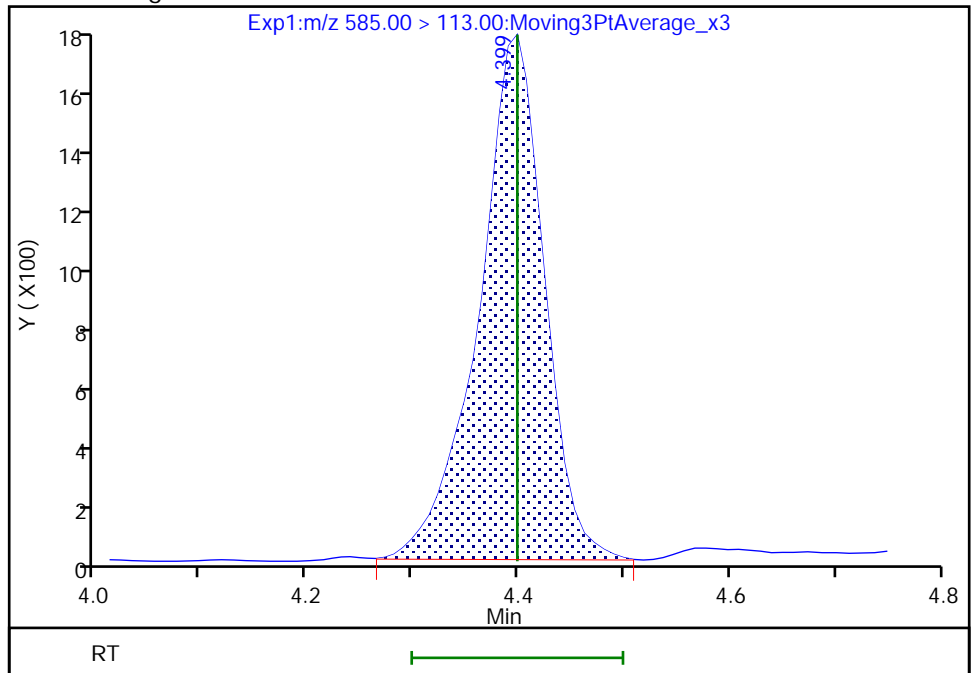
RT: 4.40
Area: 6756
Amount: 0.031477
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 7375
Amount: 0.033988
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:06:29
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 285 of 539

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284260/4 Calibration Date: 08/10/2022 03:04
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG09BFS-04.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.486		5.00	4.45	12.3	30.0
BFS_A3B	Q2ID		1.743		5.79	4.98	16.2	30.0
BFS_B3	L1ID		0.9749		18.3	15.8	15.3	30.0
BFS_A2B2	L1ID		0.6379		39.0	34.7	12.4	30.0
BFS_A4B	L1ID		2.052		2.91	2.75	5.6	30.0
BFS_AB3	Q2ID		0.8283		40.7	37.2	9.5	30.0
BFS_A3B2	Q2ID		1.536		7.13	6.55	8.9	30.0
BFS_B4	L1ID		0.5025		9.52	8.64	10.1	30.0
BFS_A2B3	Q2ID		0.0420		0.642	0.655	-1.9	30.0
13C3 HFPO-DA	Ave	0.2143	0.2084		4.86	5.00	-2.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-04.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 10-Aug-2022 03:04:31 ALS Bottle#: 7 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 11:07:36

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags	
1 BFS_AB2	503.00 > 229.00	3.951	3.960	-0.009	0.904	848852	5.00	112	1770	
2 BFS_A3B	519.00 > 113.00	4.032	4.042	-0.010	0.922	1113053	5.79	116	69.2	
3 BFS_B3	553.00 > 345.00	4.188	4.200	-0.012	0.958	1982265	18.3	115	132	
4 BFS_A2B2	569.00 > 229.00	4.288	4.304	-0.016	0.981	2840534	39.0	112	144	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.371	4.388	-0.017	0.877	641512	4.86	97.3	269	
5 BFS_A4B	585.00 > 113.00	4.380	4.388	-0.008	1.002	724058	2.91	106	186	
7 BFS_AB3	619.00 > 229.00	4.554	4.564	-0.010	1.042	3952780	40.7	110	181	
8 BFS_A3B2	635.00 > 113.00	4.647	4.657	-0.010	1.063	1290620	7.13	109	200	
9 BFS_B4	669.00 > 461.00	4.792	4.805	-0.013	1.096	557309	9.52	110	219	
10 BFS_A2B3	685.00 > 571.00	4.896	4.907	-0.011	1.120	3527	0.6423	98.1	64.4	M
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		3078414	5.00		320	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-04.d

Injection Date: 10-Aug-2022 03:04:31

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

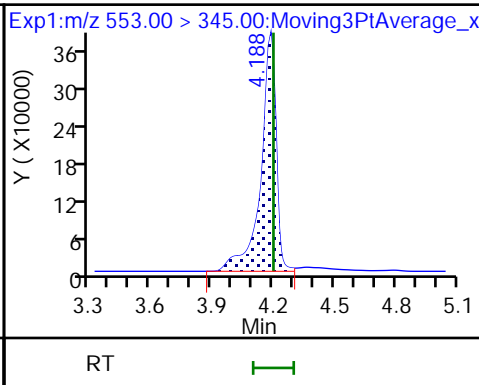
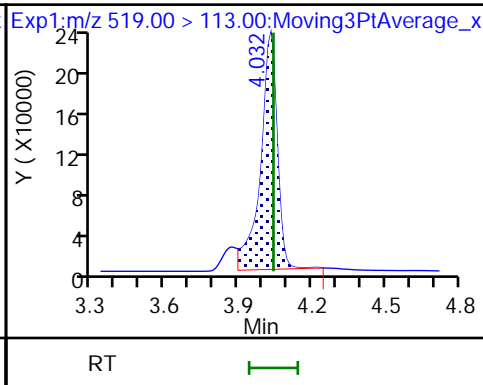
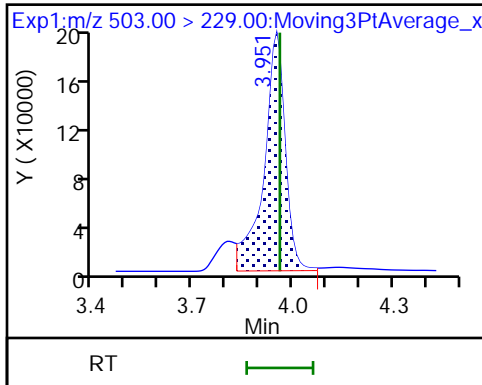
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

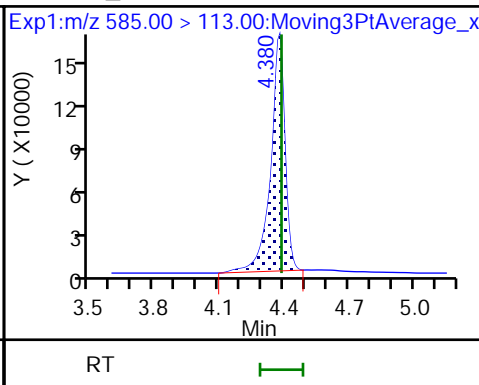
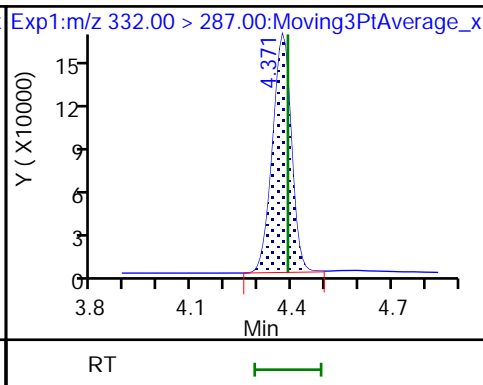
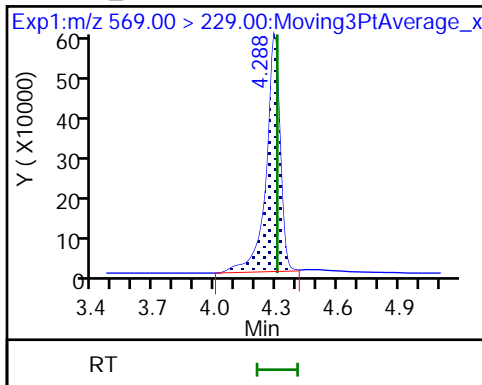
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

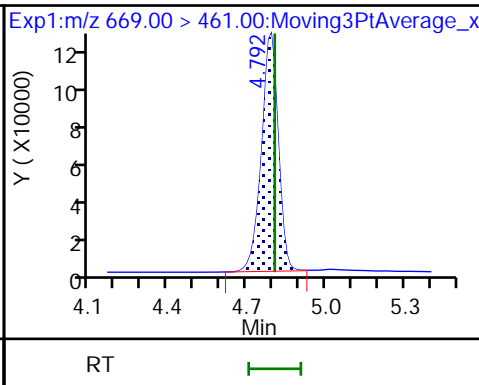
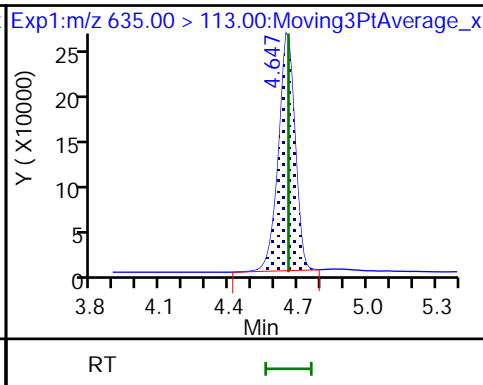
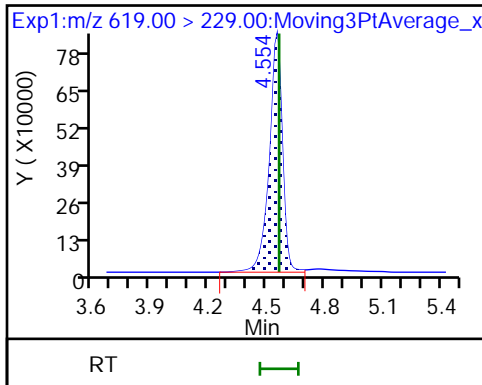
5 BFS_A4B



7 BFS_AB3

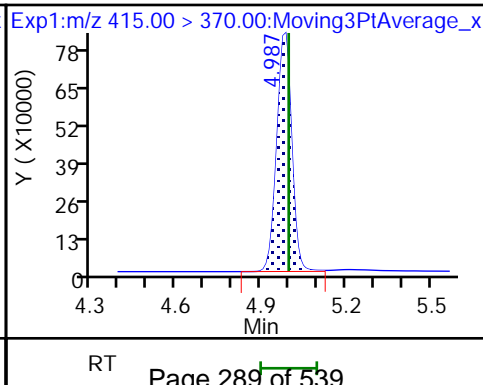
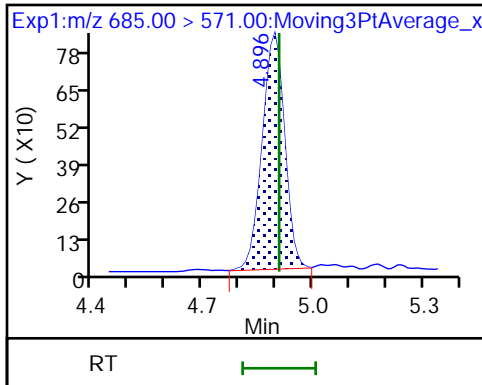
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

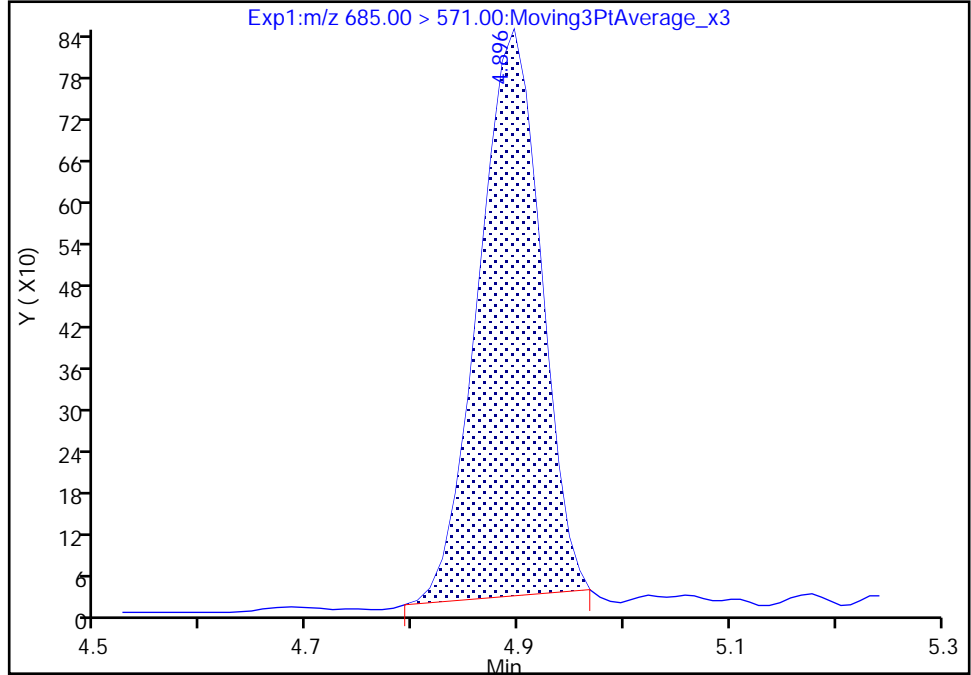
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-04.d
Injection Date: 10-Aug-2022 03:04:31 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

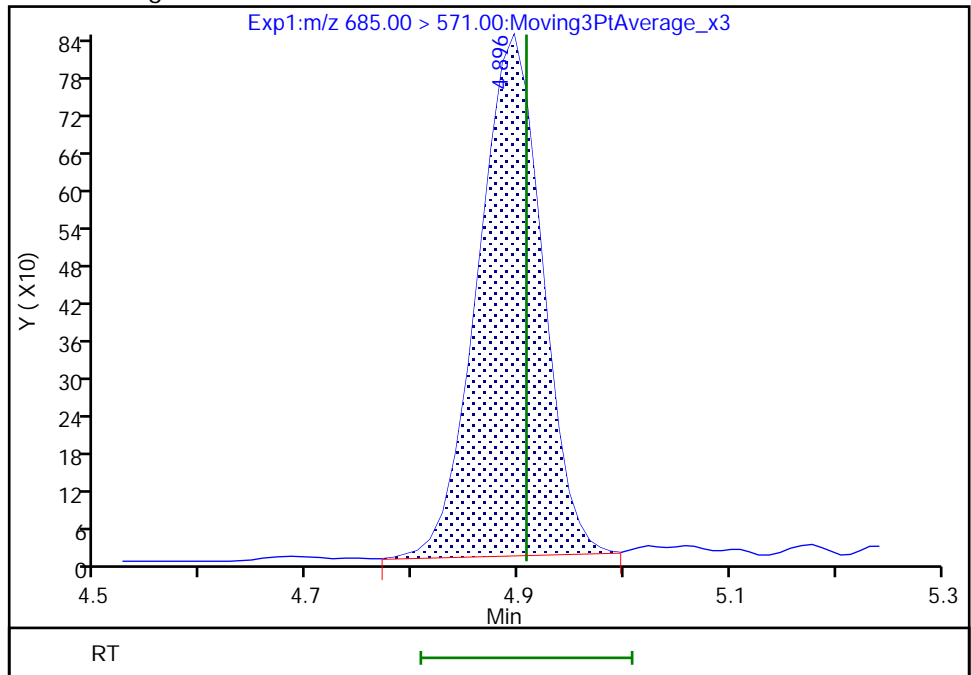
RT: 4.90
Area: 3359
Amount: 0.611411
Amount Units: ng/ml

Processing Integration Results



RT: 4.90
Area: 3527
Amount: 0.642269
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:07:33
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 290 of 539

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284260/16 Calibration Date: 08/10/2022 05:35
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG09BFS-16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.485		9.93	8.91	11.5	30.0
BFS_A3B	Q2ID		1.849		12.1	9.95	22.0	30.0
BFS_B3	L1ID		0.9552		35.8	31.7	12.9	30.0
BFS_A2B2	L1ID		0.6593		80.7	69.4	16.3	30.0
BFS_A4B	L1ID		2.082		5.89	5.50	7.1	30.0
BFS_AB3	Q2ID		0.8023		79.6	74.4	7.0	30.0
BFS_A3B2	Q2ID		1.520		14.2	13.1	8.0	30.0
BFS_B4	L1ID		0.4957		18.8	17.3	8.6	30.0
BFS_A2B3	Q2ID		0.0510		1.56	1.31	19.4	30.0
13C3 HFPO-DA	Ave	0.2143	0.2106		4.91	5.00	-1.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-16.d
 Lims ID: CCV 4_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 10-Aug-2022 05:35:46 ALS Bottle#: 8 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:13 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 11:07:50

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.960	3.960	0.0	0.904	1744054	9.93	111	1861
2 BFS_A3B	519.00 > 113.00	4.042	4.042	0.0	0.923	2426863	12.1	122	156
3 BFS_B3	553.00 > 345.00	4.200	4.200	0.0	0.959	3991270	35.8	113	140
4 BFS_A2B2	569.00 > 229.00	4.296	4.304	-0.008	0.981	6033446	80.7	116	161
D 6 13C3 HFPO-DA	332.00 > 287.00	4.379	4.388	-0.009	0.878	659123	4.91	98.3	264
5 BFS_A4B	585.00 > 113.00	4.388	4.388	0.0	1.002	1510065	5.89	107	188
7 BFS_AB3	619.00 > 229.00	4.564	4.564	0.0	1.042	7867522	79.6	107	206
8 BFS_A3B2	635.00 > 113.00	4.657	4.657	0.0	1.063	2624081	14.2	108	184
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.094	1129666	18.8	109	225
10 BFS_A2B3	685.00 > 571.00	4.908	4.907	0.001	1.121	8803	1.56	119	129 M
* 11 13C2 PFOA	415.00 > 370.00	4.988	4.997	-0.009		3129695	5.00		320

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-16.d

Injection Date: 10-Aug-2022 05:35:46

Instrument ID: 30733

Lims ID: CCV 4_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

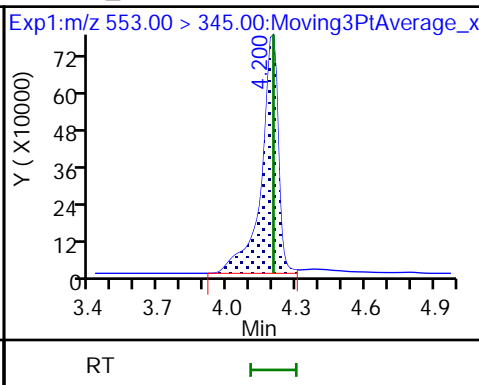
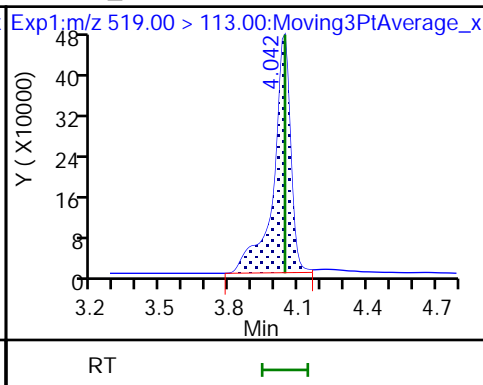
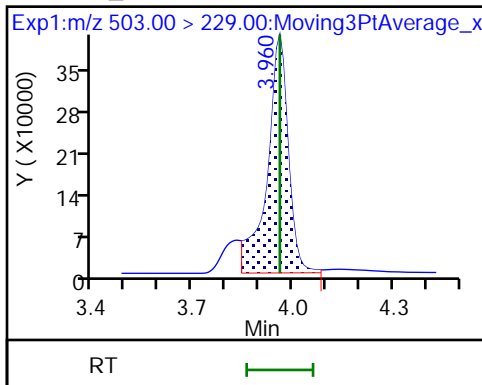
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

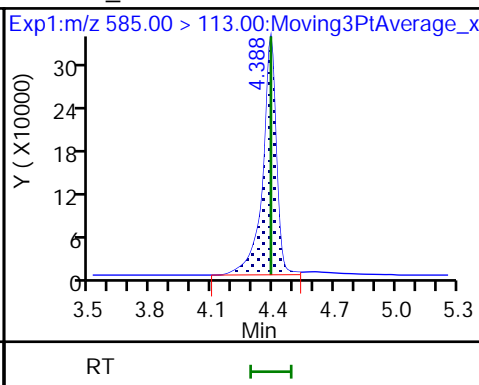
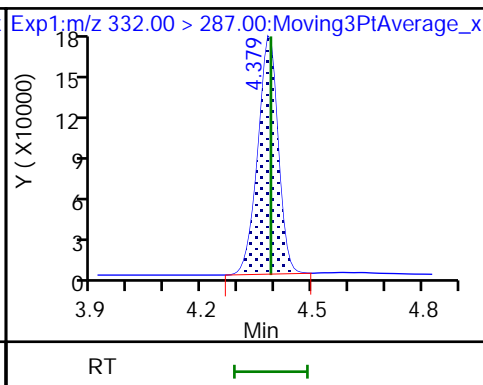
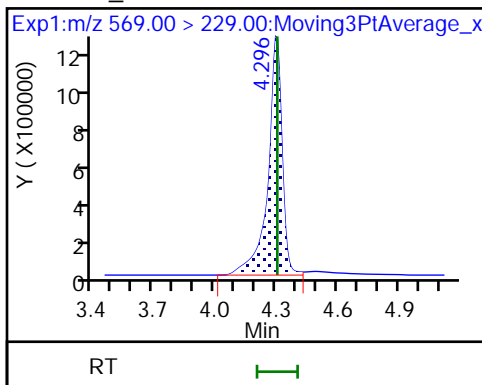
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

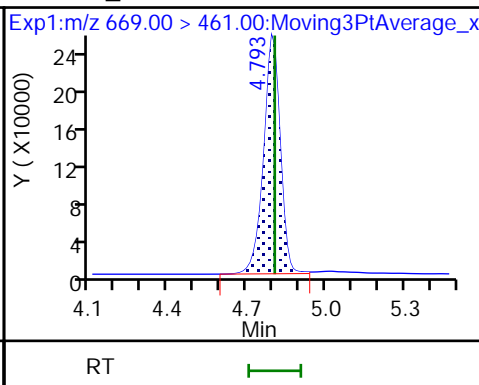
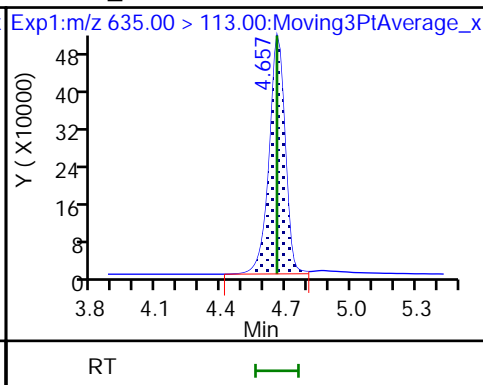
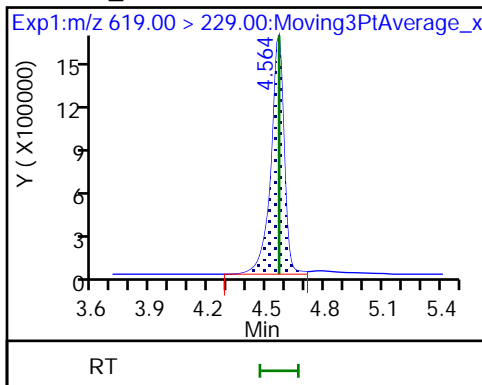
5 BFS_A4B



7 BFS_AB3

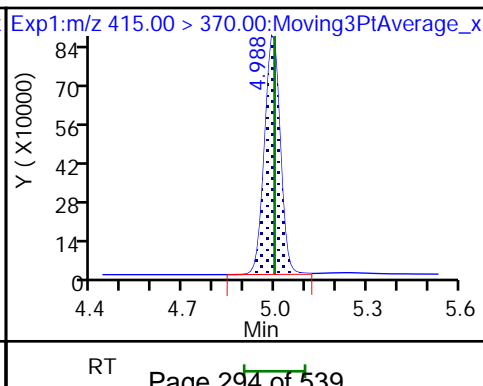
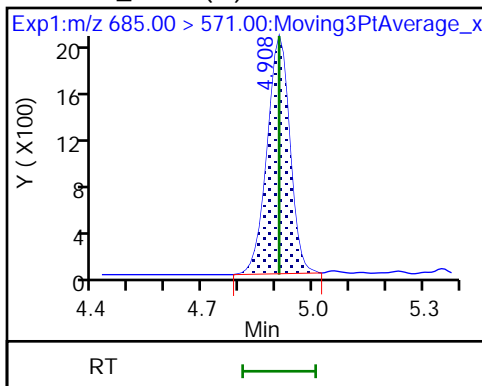
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

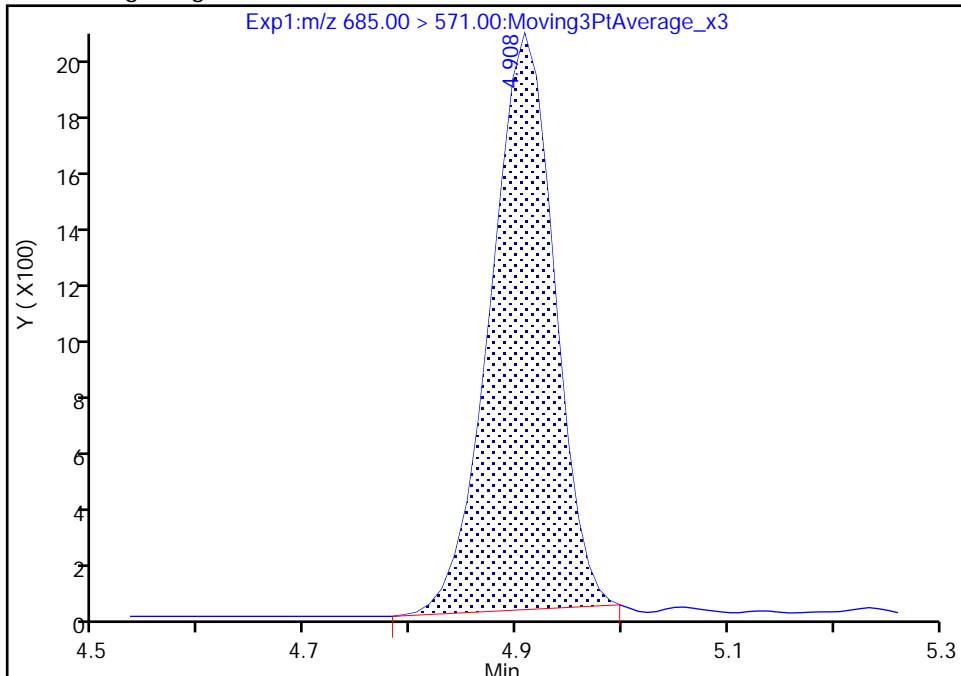
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-16.d
Injection Date: 10-Aug-2022 05:35:46 Instrument ID: 30733
Lims ID: CCV 4_CAL7
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 8 Worklist Smp#: 16
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

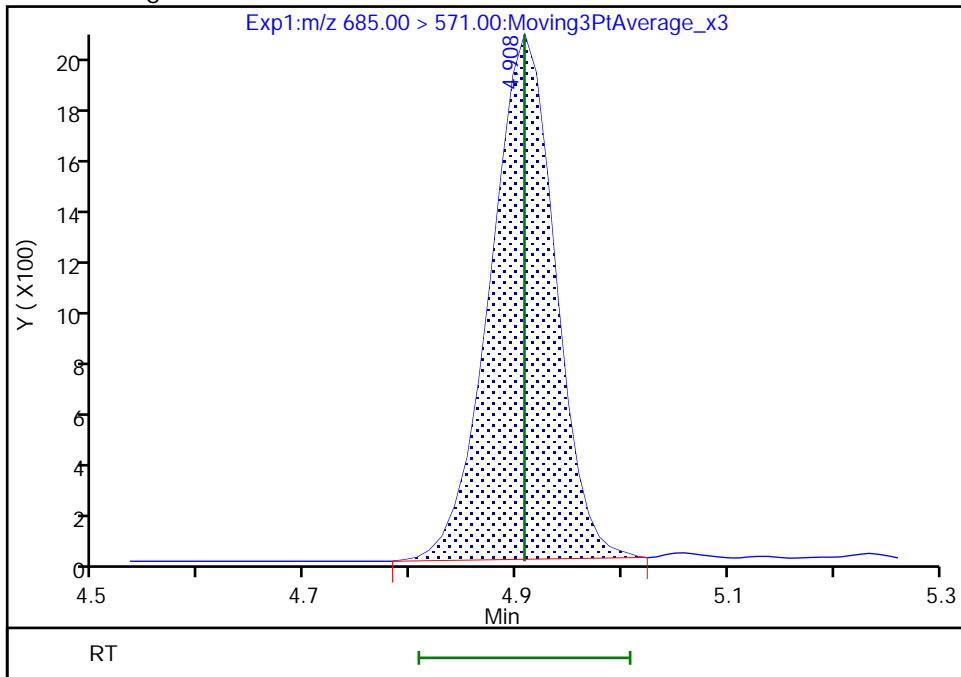
RT: 4.91
Area: 8608
Amount: 1.529124
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 8803
Amount: 1.563660
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:07:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-284260/21 Calibration Date: 08/10/2022 06:38
 Instrument ID: 30733 Calib Start Date: 08/09/2022 00:03
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/09/2022 01:56
 Lab File ID: 22AUG09BFS-21.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	Q2ID		1.531		2.07	1.78	16.2	30.0
BFS_A3B	Q2ID		1.902		2.54	1.99	27.6	30.0
BFS_B3	L1ID		1.009		7.59	6.34	19.7	30.0
BFS_A2B2	L1ID		0.6981		17.1	13.9	22.8	30.0
BFS_A4B	L1ID		2.210		1.25	1.10	14.0	30.0
BFS_AB3	Q2ID		0.8937		17.5	14.9	17.6	30.0
BFS_A3B2	Q2ID		1.668		3.10	2.62	18.2	30.0
BFS_B4	L1ID		0.5513		4.17	3.46	20.7	30.0
BFS_A2B3	Q2ID		0.0474		0.287	0.262	9.5	30.0
13C3 HFPO-DA	Ave	0.2143	0.2117		4.94	5.00	-1.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-21.d
 Lims ID: CCV 5_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 10-Aug-2022 06:38:48 ALS Bottle#: 6 Worklist Smp#: 21
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 5_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-021
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:17 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d

Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 11:08:13

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.960	3.960	0.0	0.903	333267	2.07	116	1550	M
2 BFS_A3B									
519.00 > 113.00	4.042	4.042	0.0	0.921	462717	2.54	128	142	
3 BFS_B3									
553.00 > 345.00	4.200	4.200	0.0	0.957	782055	7.59	120	132	
4 BFS_A2B2									
569.00 > 229.00	4.304	4.304	0.0	0.981	1184601	17.1	123	152	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.388	4.388	0.0	0.878	611107	4.94	98.8	275	
5 BFS_A4B									
585.00 > 113.00	4.388	4.388	0.0	1.000	297105	1.25	114	176	
7 BFS_AB3									
619.00 > 229.00	4.564	4.564	0.0	1.040	1625149	17.5	118	197	
8 BFS_A3B2									
635.00 > 113.00	4.657	4.657	0.0	1.061	534076	3.10	118	197	
9 BFS_B4									
669.00 > 461.00	4.805	4.805	0.0	1.095	233003	4.17	121	182	
10 BFS_A2B3									M
685.00 > 571.00	4.907	4.907	0.0	1.118	1519	0.2867	109	38.3	M
* 11 13C2 PFOA									
415.00 > 370.00	4.997	4.997	0.0		2887011	5.00		320	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-21.d

Injection Date: 10-Aug-2022 06:38:48

Instrument ID: 30733

Lims ID: CCV 5_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 21

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

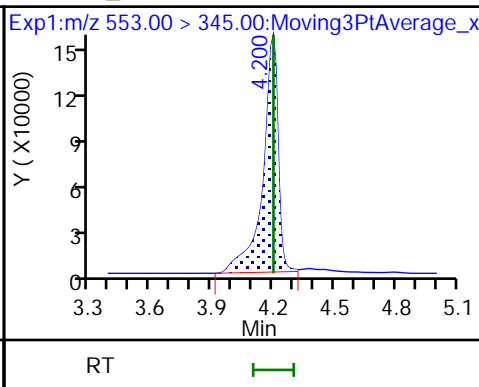
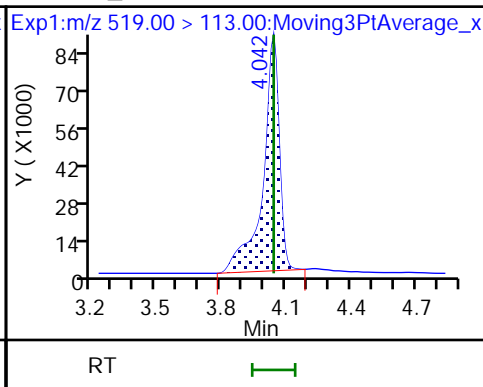
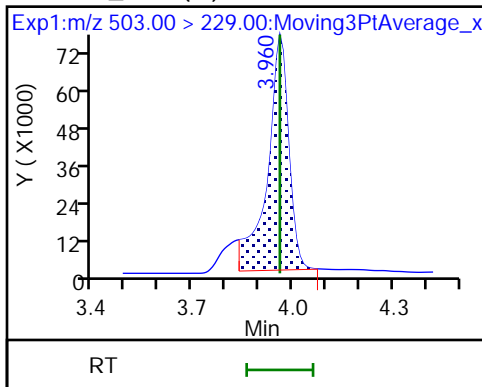
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B

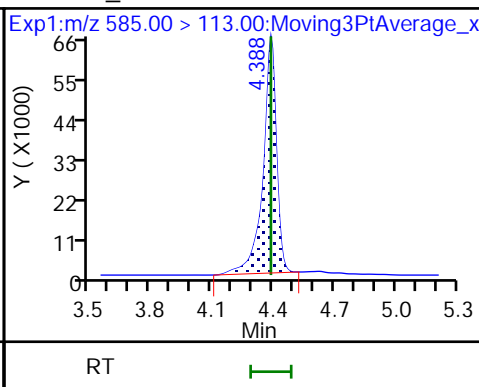
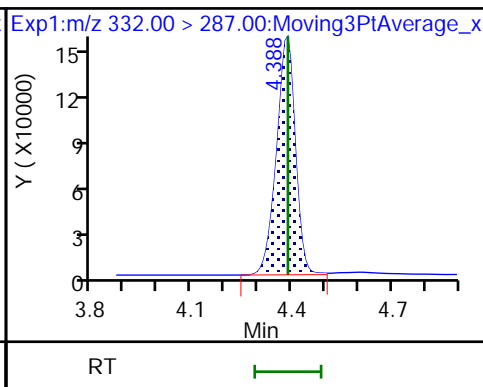
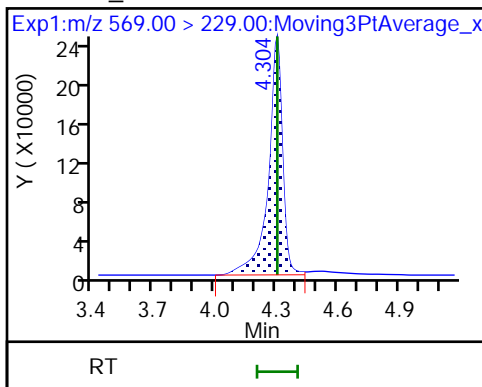
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

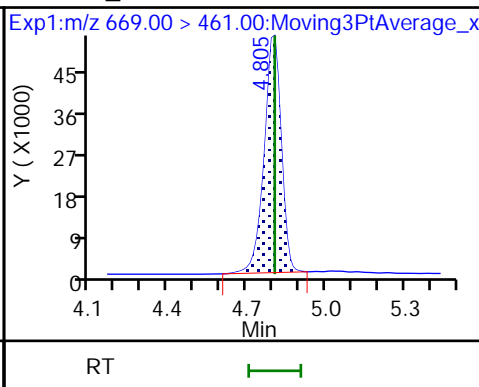
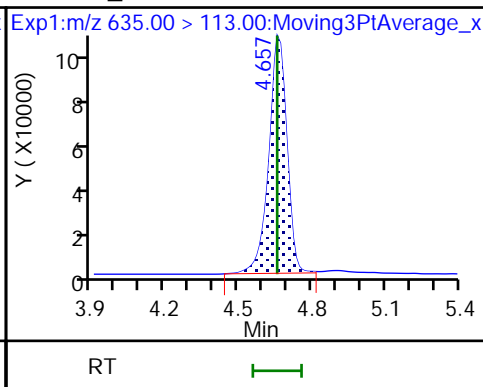
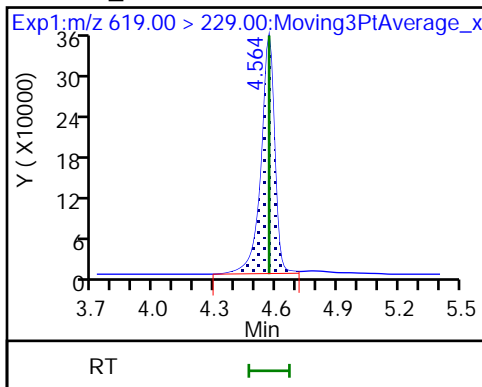
5 BFS_A4B



7 BFS_AB3

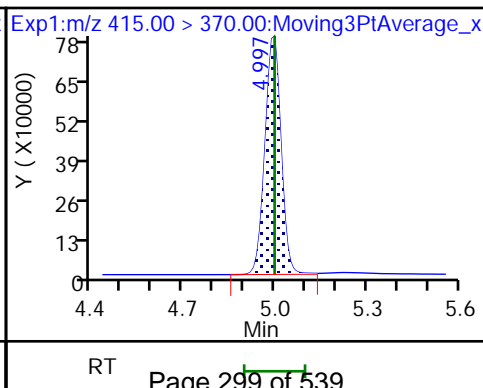
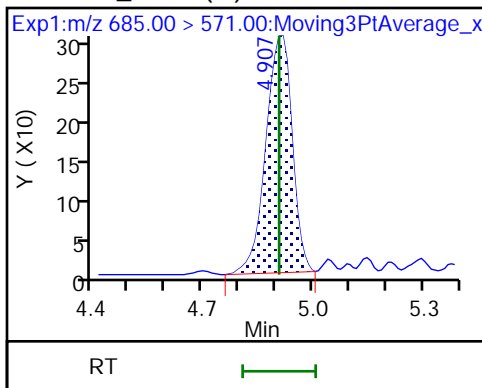
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

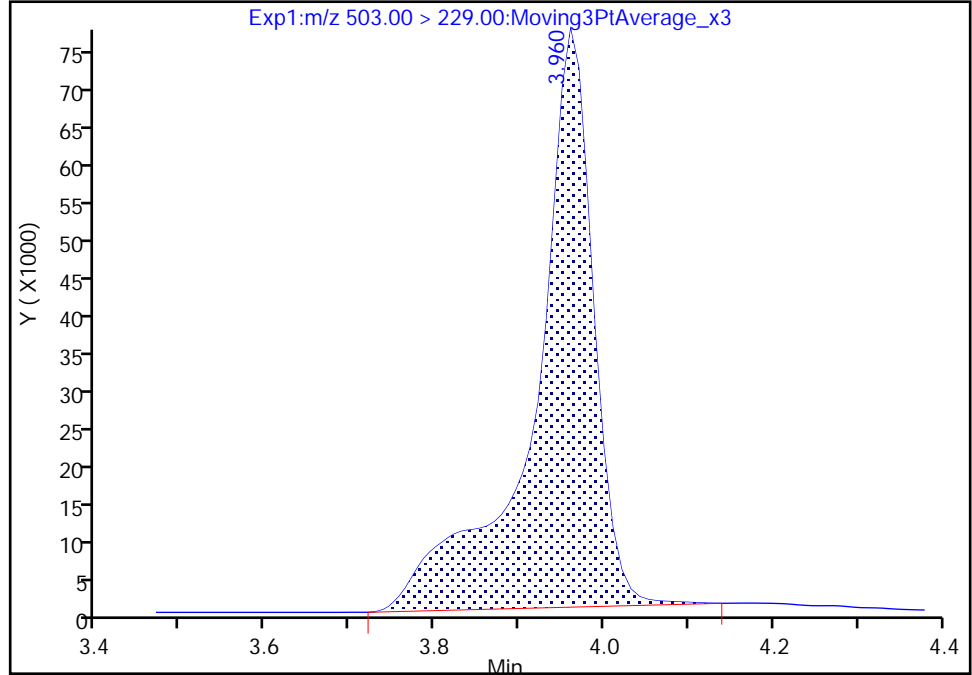
Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-21.d
Injection Date: 10-Aug-2022 06:38:48 Instrument ID: 30733
Lims ID: CCV 5_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 21
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

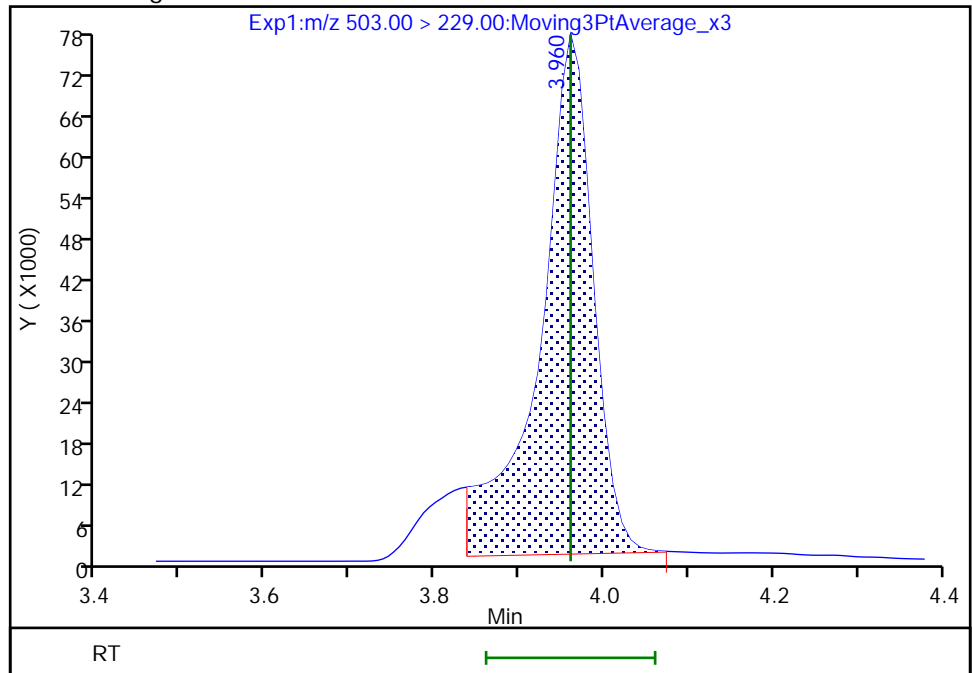
RT: 3.96
Area: 376030
Amount: 2.334284
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 333267
Amount: 2.069776
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 11:08:02
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

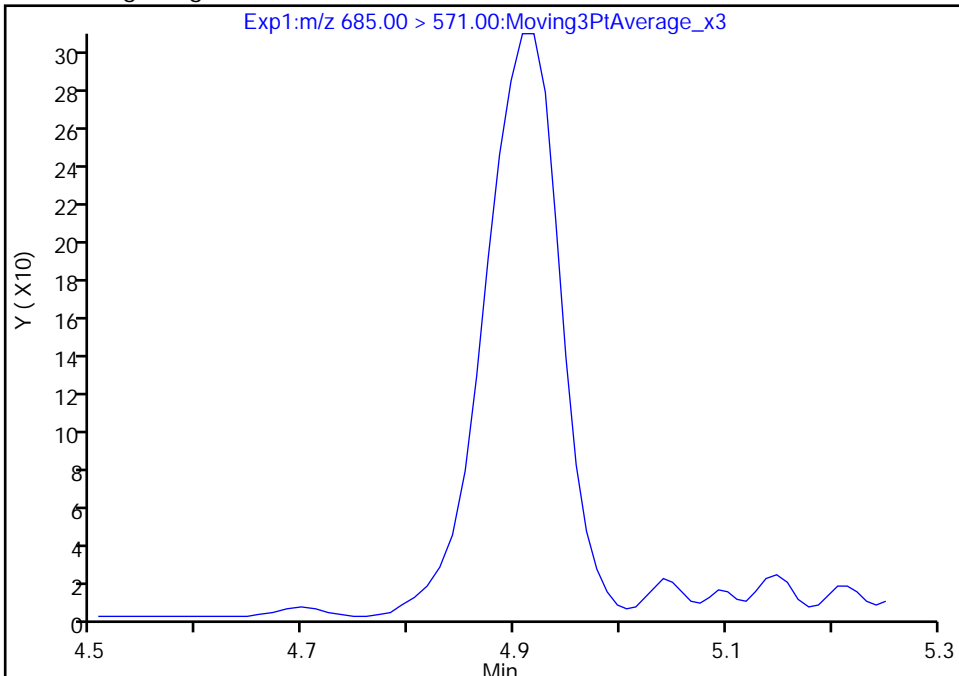
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Injection Date: 10-Aug-2022 06:38:48 Instrument ID: 30733
Lims ID: CCV 5_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 21
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

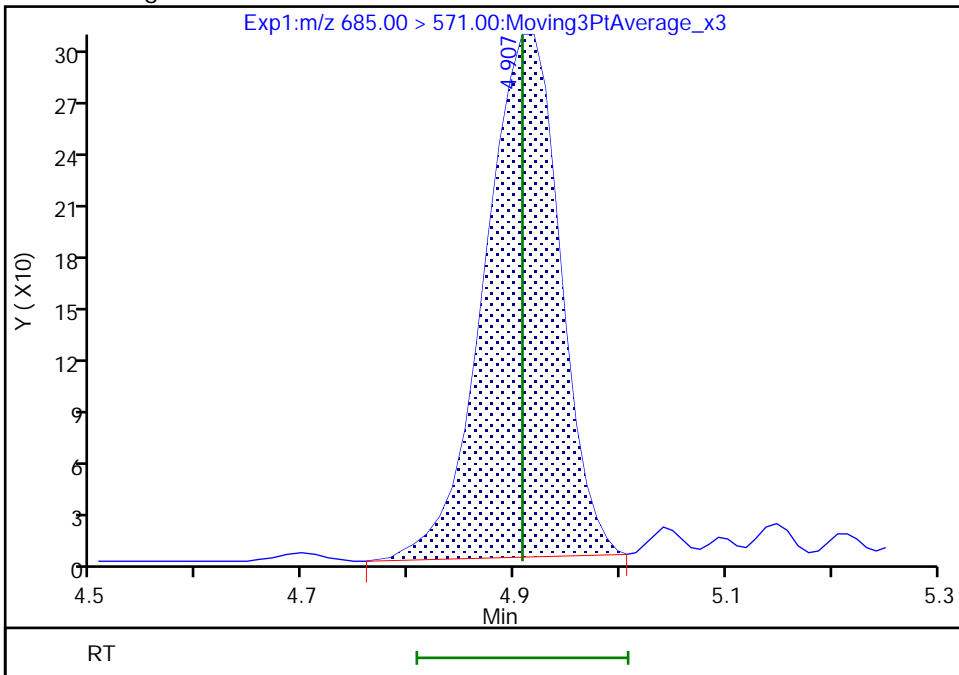
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.91
Area: 1519
Amount: 0.286736
Amount Units: ng/ml



Reviewer: JVK6, 10-Aug-2022 11:08:09
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: ICV 410-285706/12 Calibration Date: 08/14/2022 04:54
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.563		4.03	4.45	-9.5	30.0
BFS_A3B	L1ID		1.749		4.50	4.98	-9.6	30.0
BFS_B3	L1ID		1.014		15.0	15.8	-5.5	30.0
BFS_A2B2	Q2ID		0.6892		30.9	34.7	-11.1	30.0
BFS_A4B	L1ID		2.236		2.58	2.75	-6.3	30.0
BFS_AB3	Q2ID		0.9930		34.7	37.2	-6.8	30.0
BFS_A3B2	Q2ID		1.893		6.06	6.55	-7.5	30.0
BFS_B4	Q2ID		0.6315		8.13	8.64	-6.0	30.0
BFS_A2B3	L1ID		0.0597		0.583	0.655	-11.0	30.0
13C3 HFPO-DA	Ave	0.2006	0.2027		5.05	5.00	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 14-Aug-2022 04:54:44 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-012
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:31:00 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:27:08

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.933	3.932	0.001	0.904	795617	4.03	1065	
2 BFS_A3B	519.00 > 113.00	4.013	4.010	0.003	0.923	994785	4.50	33.9	
3 BFS_B3	553.00 > 345.00	4.165	4.163	0.002	0.958	1837351	15.0	53.2	
4 BFS_A2B2	569.00 > 229.00	4.266	4.263	0.003	0.981	2734540	30.9	74.3	
D 6 13C3 HFPO-DA	332.00 > 287.00	4.349	4.346	0.003	0.878	571564	5.05	101	706
5 BFS_A4B	585.00 > 113.00	4.349	4.355	-0.006	1.000	703083	2.58	144	
7 BFS_AB3	619.00 > 229.00	4.528	4.525	0.003	1.041	4222364	34.7	798	
8 BFS_A3B2	635.00 > 113.00	4.629	4.627	0.002	1.064	1416857	6.06	493	
9 BFS_B4	669.00 > 461.00	4.765	4.760	0.005	1.096	624028	8.13	510	
10 BFS_A2B3	685.00 > 571.00	4.868	4.874	-0.006	1.119	4472	0.5827	118	M
* 11 13C2 PFOA	415.00 > 370.00	4.951	4.958	-0.007		2819357	5.00	796	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_BFS_00006

Amount Added: 200.00

Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-12.d

Injection Date: 14-Aug-2022 04:54:44

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

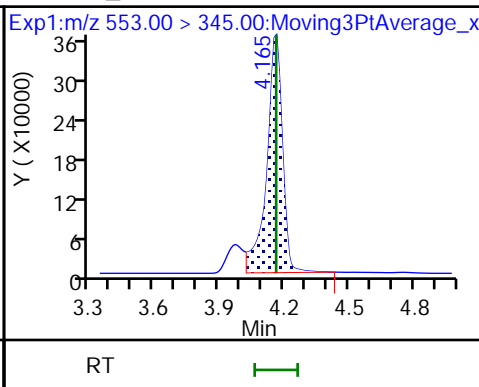
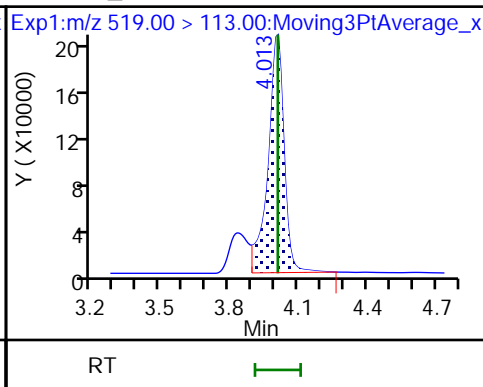
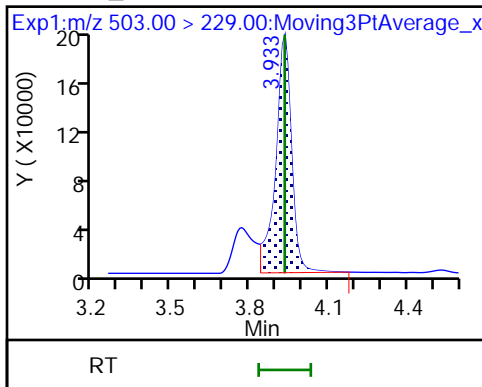
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

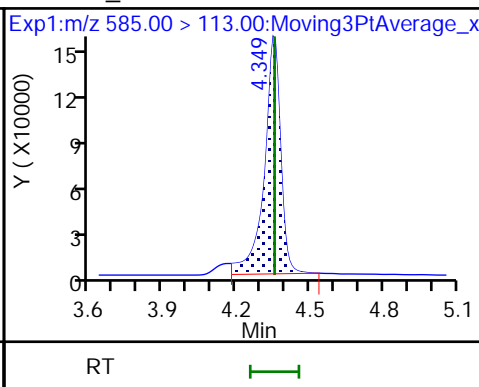
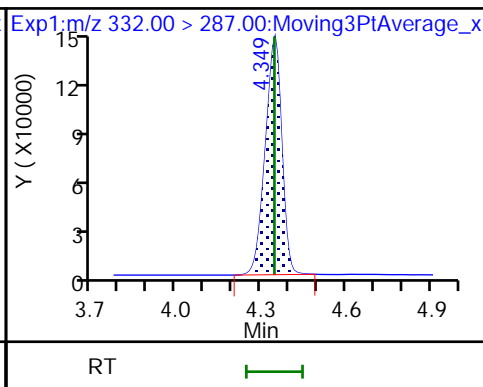
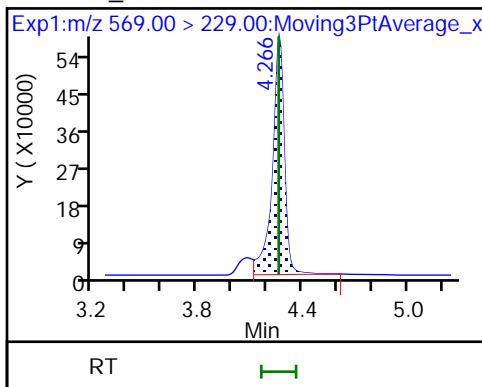
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

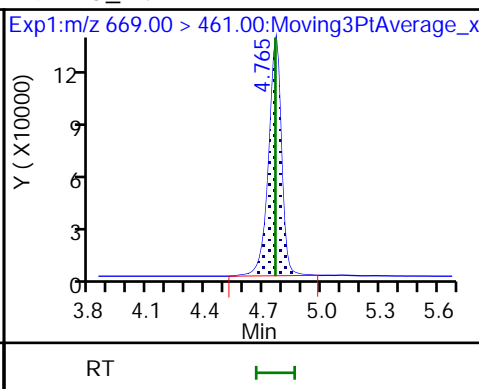
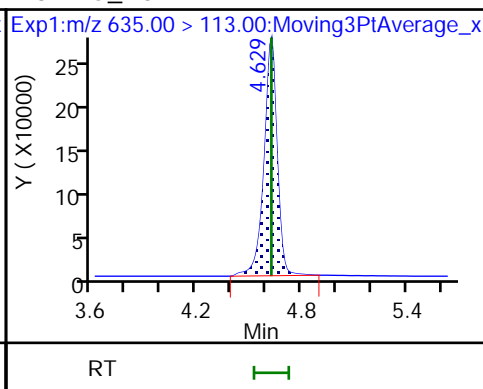
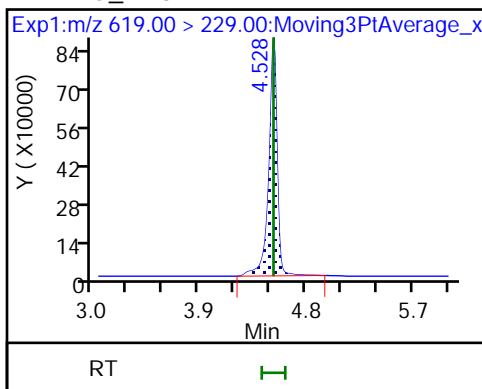
5 BFS_A4B



7 BFS_AB3

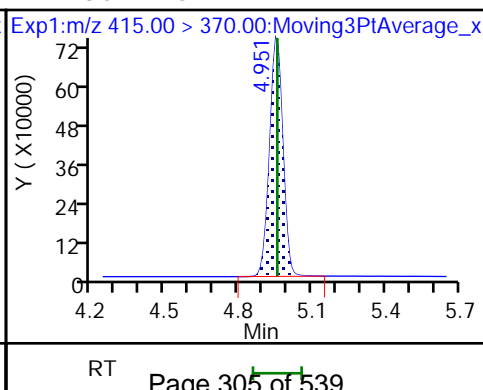
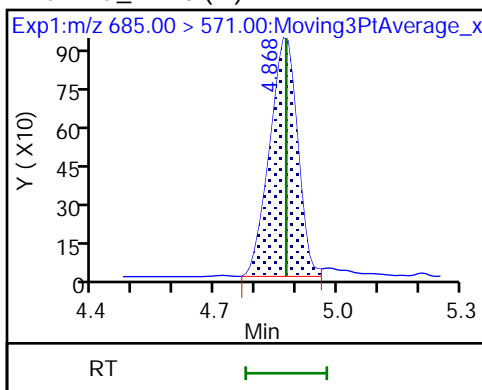
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

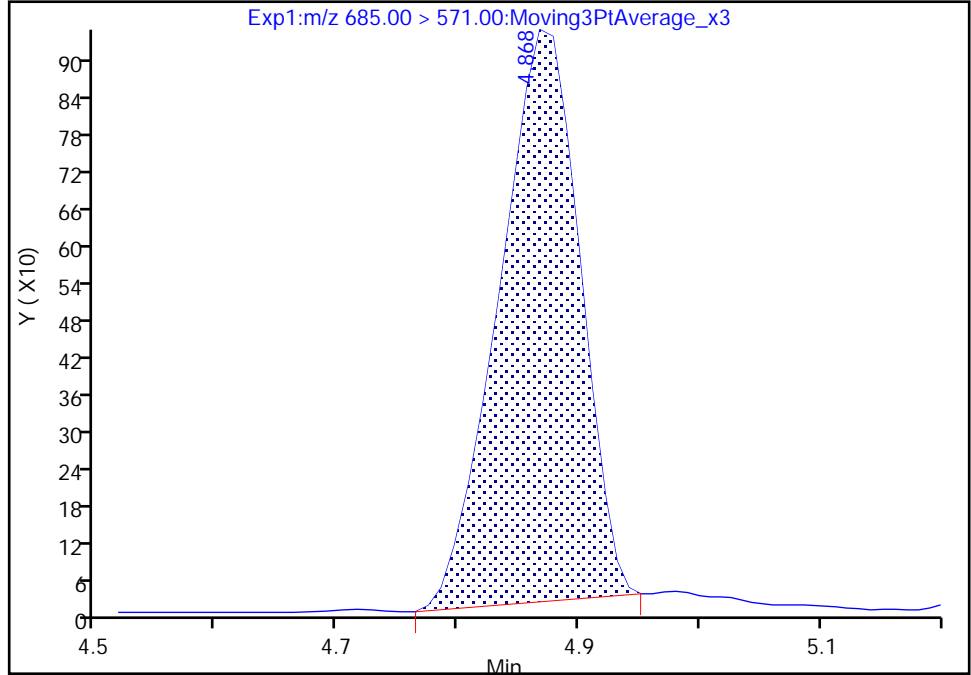
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-12.d
Injection Date: 14-Aug-2022 04:54:44 Instrument ID: 30733
Lims ID: ICV
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

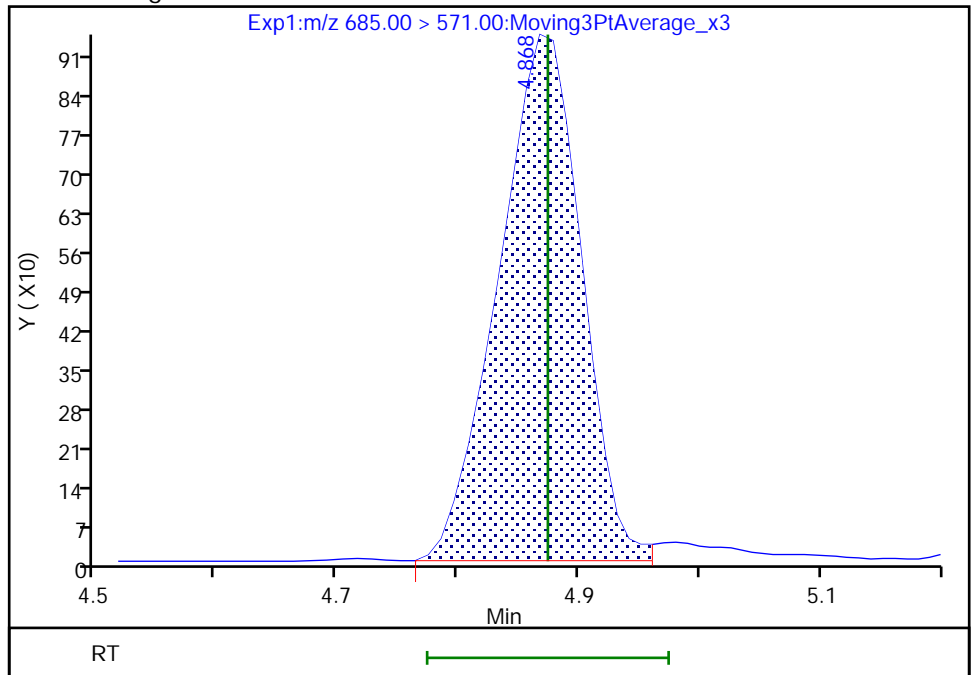
RT: 4.87
Area: 4293
Amount: 0.559384
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 4472
Amount: 0.582747
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:27:06
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-285708/1 Calibration Date: 08/14/2022 05:32
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.633		0.0476	0.0445	6.9	50.0
BFS_A3B	L1ID		1.743		0.0539	0.0498	8.2	50.0
BFS_B3	L1ID		0.9689		0.130	0.158	-17.9	50.0
BFS_A2B2	Q2ID		0.6996		0.366	0.347	5.4	50.0
BFS_A4B	L1ID		2.096		0.0239	0.0275	-13.2	50.0
BFS_AB3	Q2ID		0.9760		0.362	0.372	-2.6	50.0
BFS_A3B2	Q2ID		1.976		0.0667	0.0655	1.9	50.0
BFS_B4	Q2ID		0.6836		0.0861	0.0864	-0.4	50.0
BFS_A2B3	L1ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2006	0.2030		5.06	5.00	1.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 14-Aug-2022 05:32:33 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:03 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:34:53

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.923	3.932	-0.009	0.904	8979	0.0476	107	191	M
2 BFS_A3B									M
519.00 > 113.00	4.002	4.010	-0.008	0.922	10706	0.0539	108	34.2	M
3 BFS_B3									M
553.00 > 345.00	4.153	4.163	-0.010	0.957	18956	0.1302	82.1	35.5	M
4 BFS_A2B2									M
569.00 > 229.00	4.256	4.263	-0.007	0.981	29974	0.3660	105	75.6	M
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.340	4.346	-0.006	0.877	617233	5.06	101	724	
5 BFS_A4B									M
585.00 > 113.00	4.348	4.355	-0.007	1.002	7117	0.0239	86.8	86.3	M
7 BFS_AB3									M
619.00 > 229.00	4.518	4.525	-0.007	1.041	44814	0.3624	97.4	169	M
8 BFS_A3B2									M
635.00 > 113.00	4.618	4.627	-0.009	1.064	15972	0.0667	102	174	M
9 BFS_B4									
669.00 > 461.00	4.748	4.760	-0.012	1.094	7295	0.0861	99.6	64.3	
* 11 13C2 PFOA									
415.00 > 370.00	4.948	4.958	-0.010		3039983	5.00		882	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d

Injection Date: 14-Aug-2022 05:32:33

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

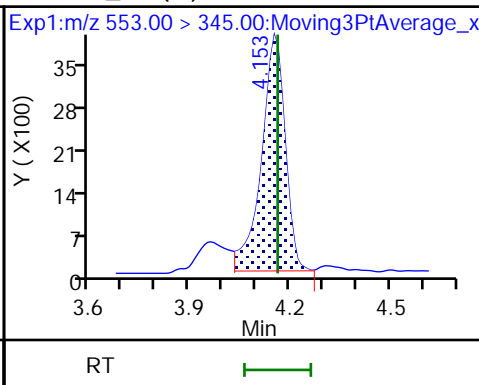
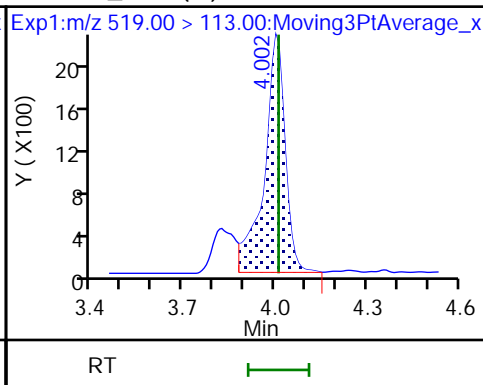
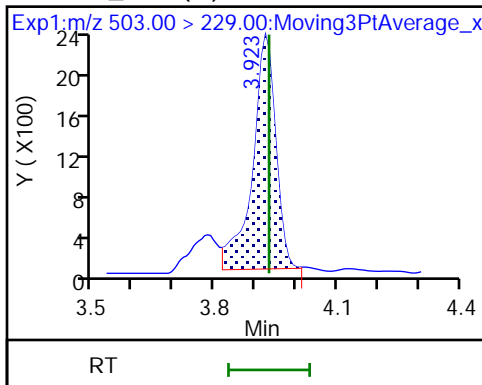
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

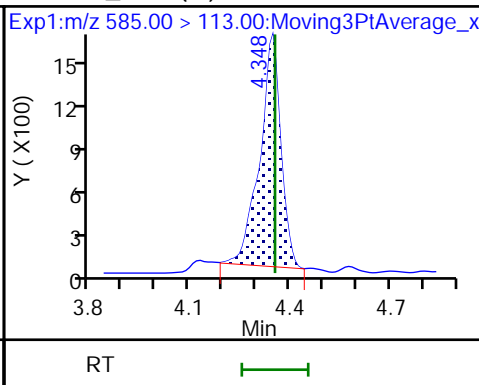
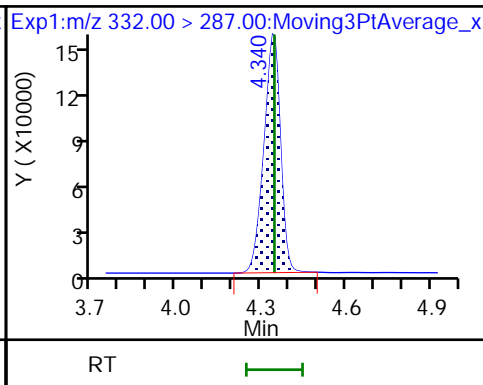
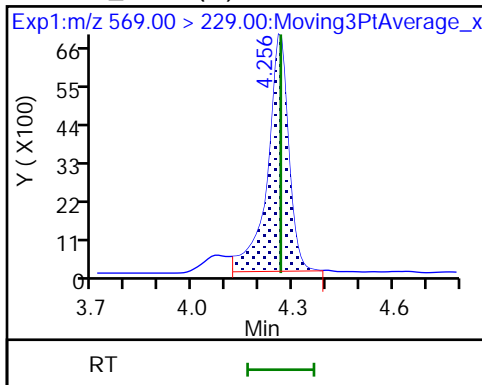
3 BFS_B3 (M)



4 BFS_A2B2 (M)

D 6 13C3 HFPO-DA

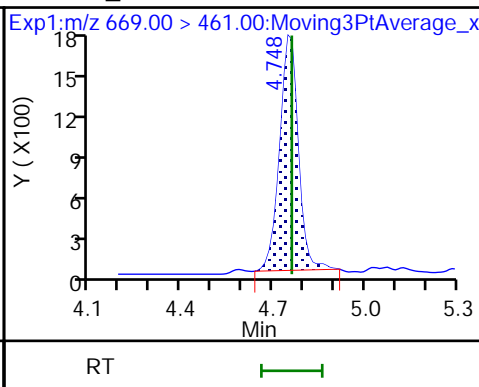
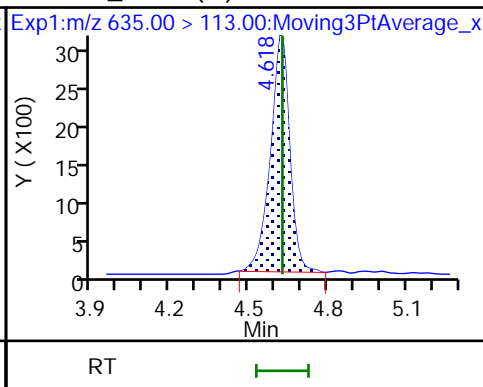
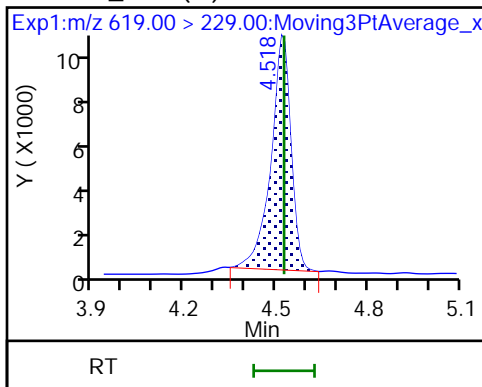
5 BFS_A4B (M)



7 BFS_AB3 (M)

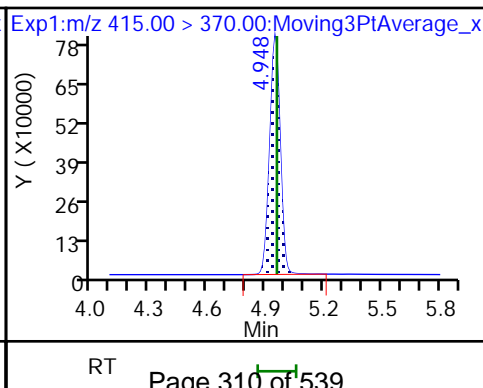
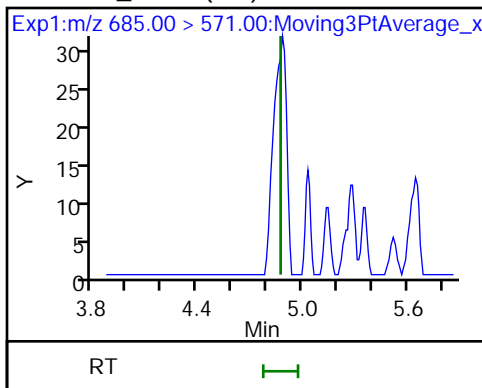
8 BFS_A3B2 (M)

9 BFS_B4



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



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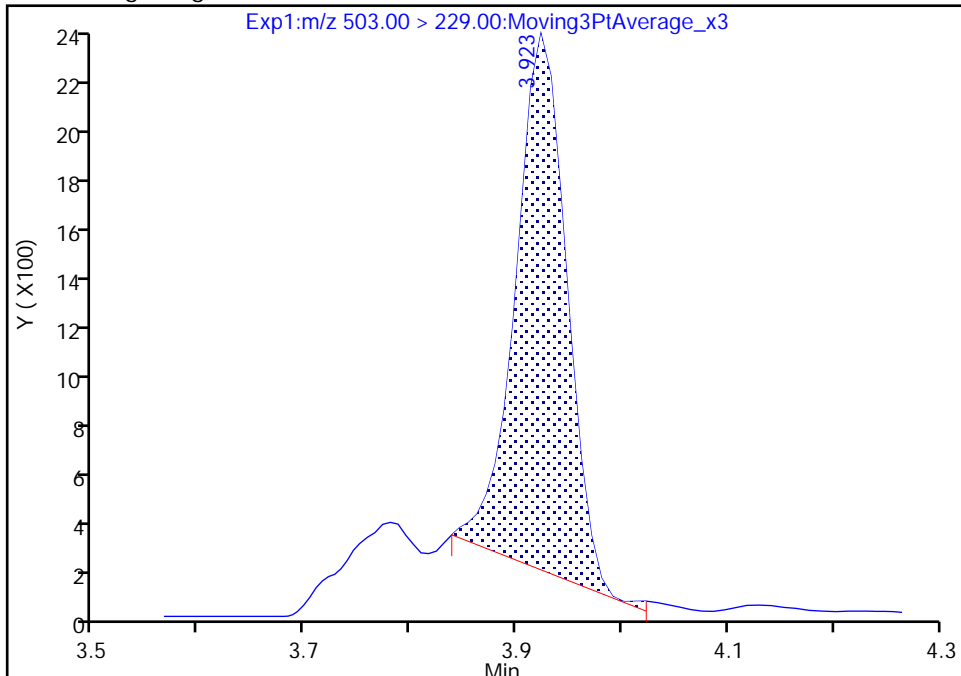
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

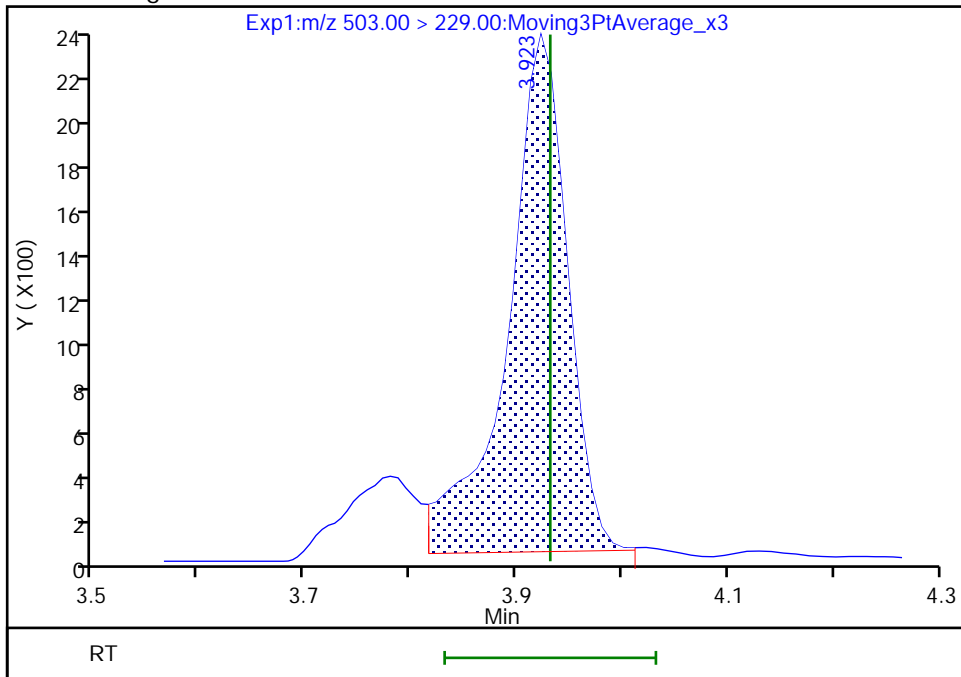
RT: 3.92
Area: 7219
Amount: 0.039344
Amount Units: ng/ml

Processing Integration Results



RT: 3.92
Area: 8979
Amount: 0.047587
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:14
Audit Action: Manually Integrated

Audit Reason: Baseline
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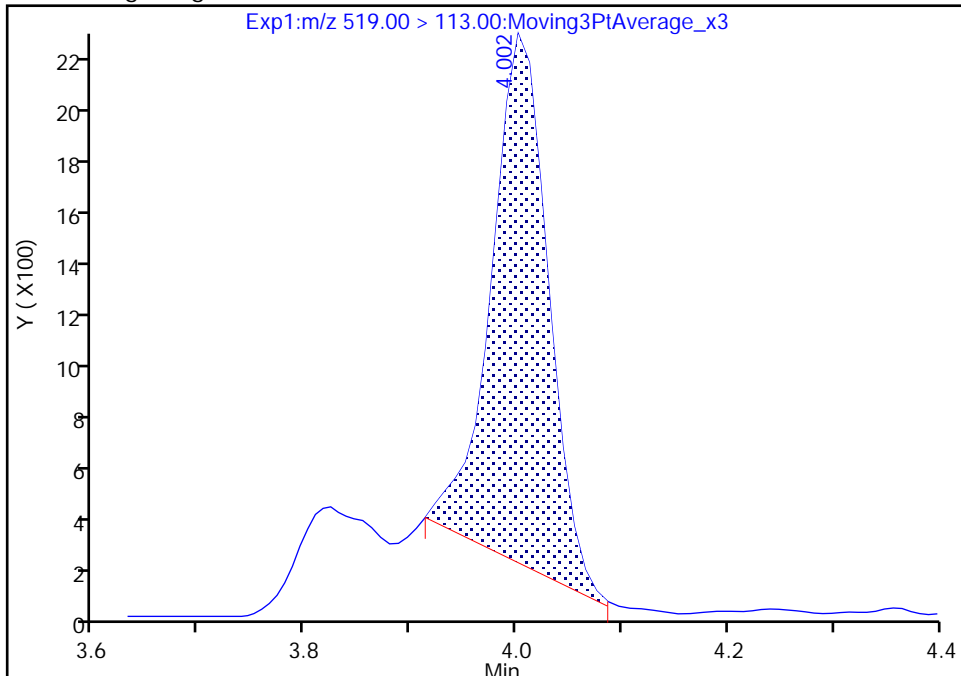
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

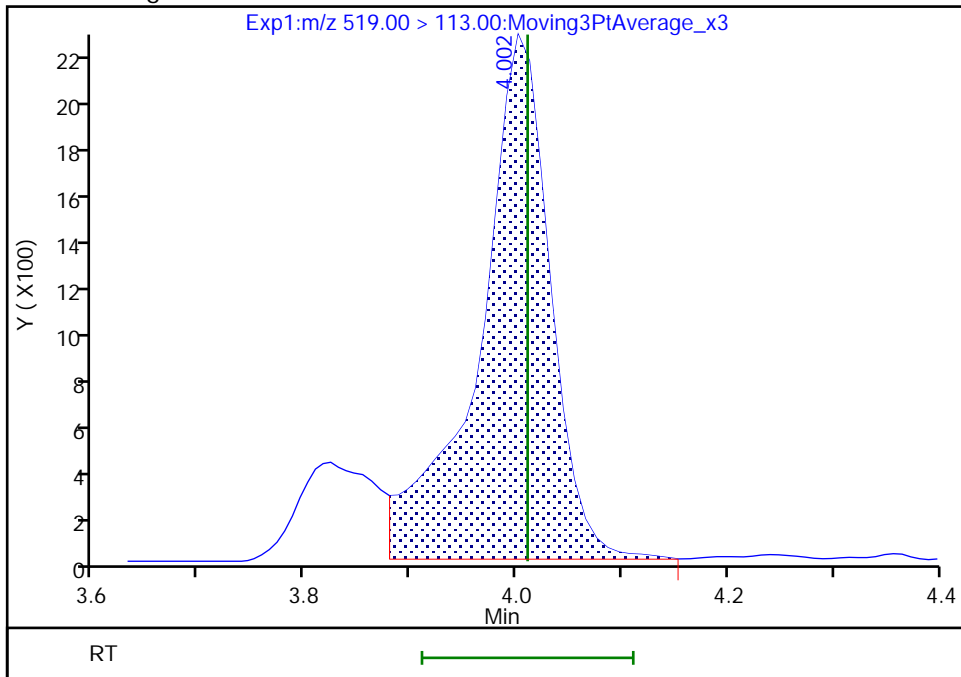
RT: 4.00
Area: 7858
Amount: 0.041956
Amount Units: ng/ml

Processing Integration Results



RT: 4.00
Area: 10706
Amount: 0.053854
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:19
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

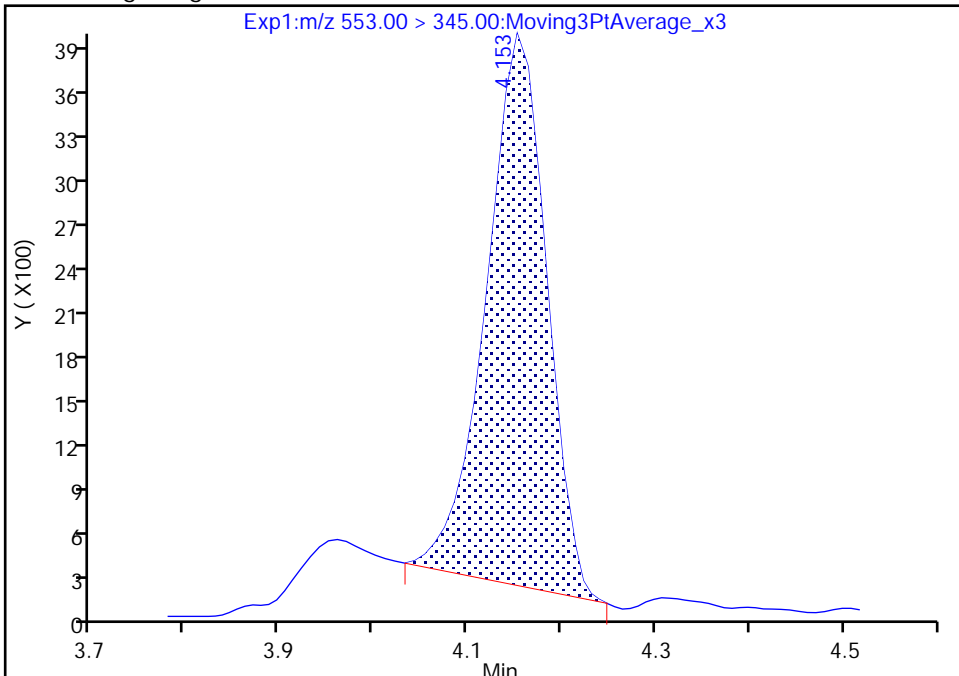
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

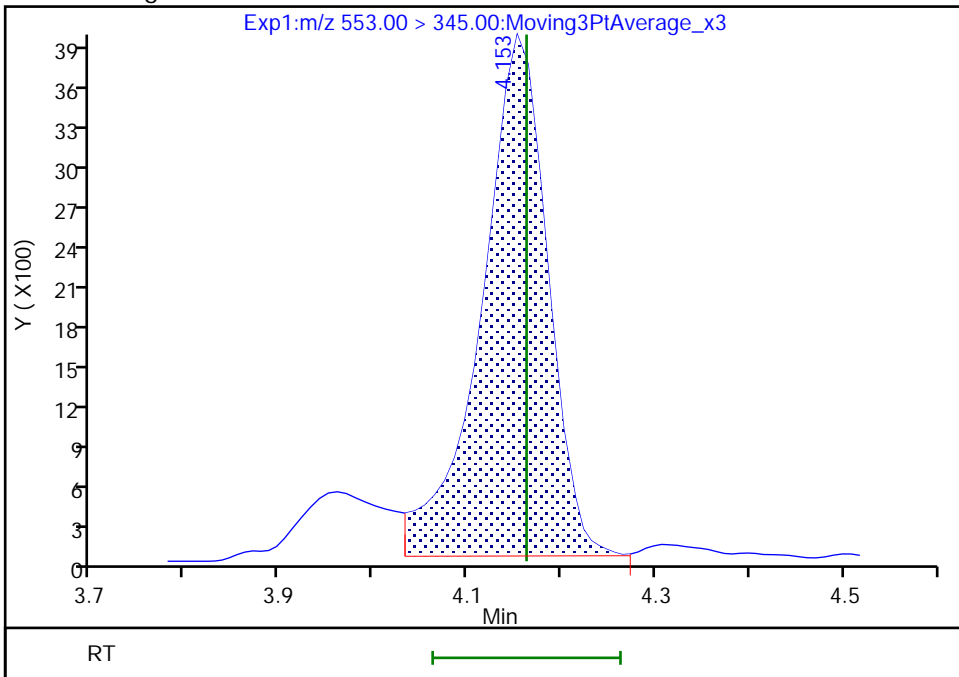
RT: 4.15
Area: 16557
Amount: 0.112061
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 18956
Amount: 0.130178
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:29
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

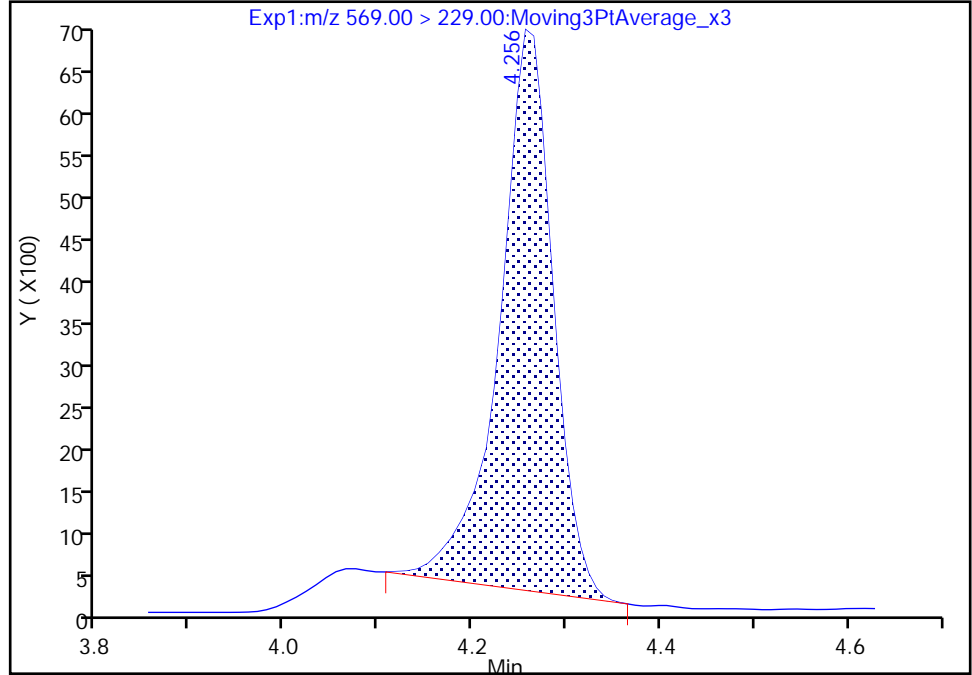
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

4 BFS_A2B2, CAS: STL02882

Signal: 1

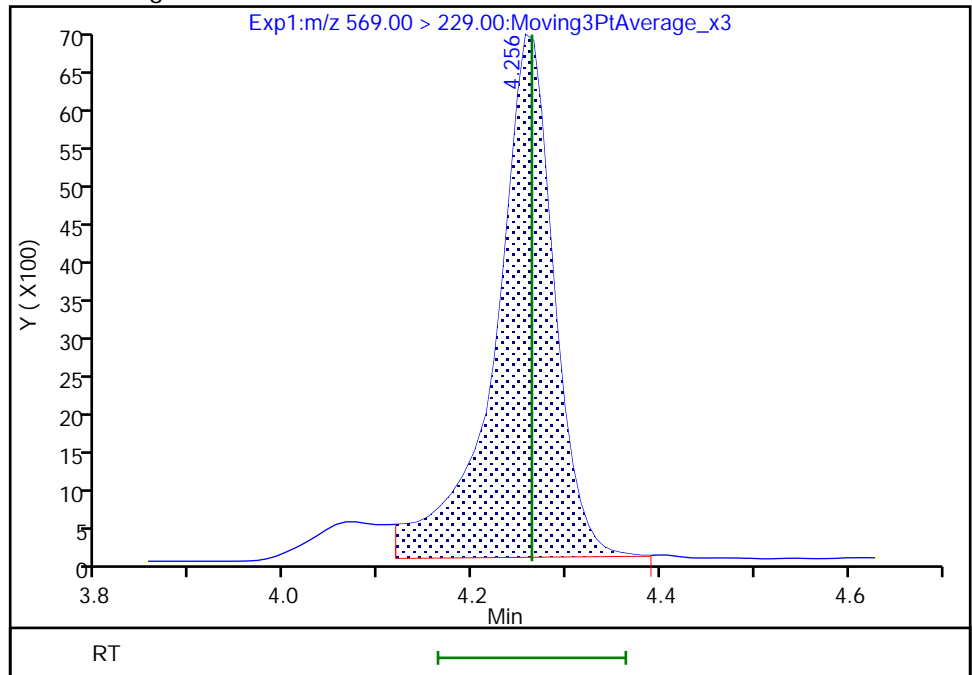
RT: 4.26
Area: 26508
Amount: 0.330070
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 29974
Amount: 0.365994
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:35
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

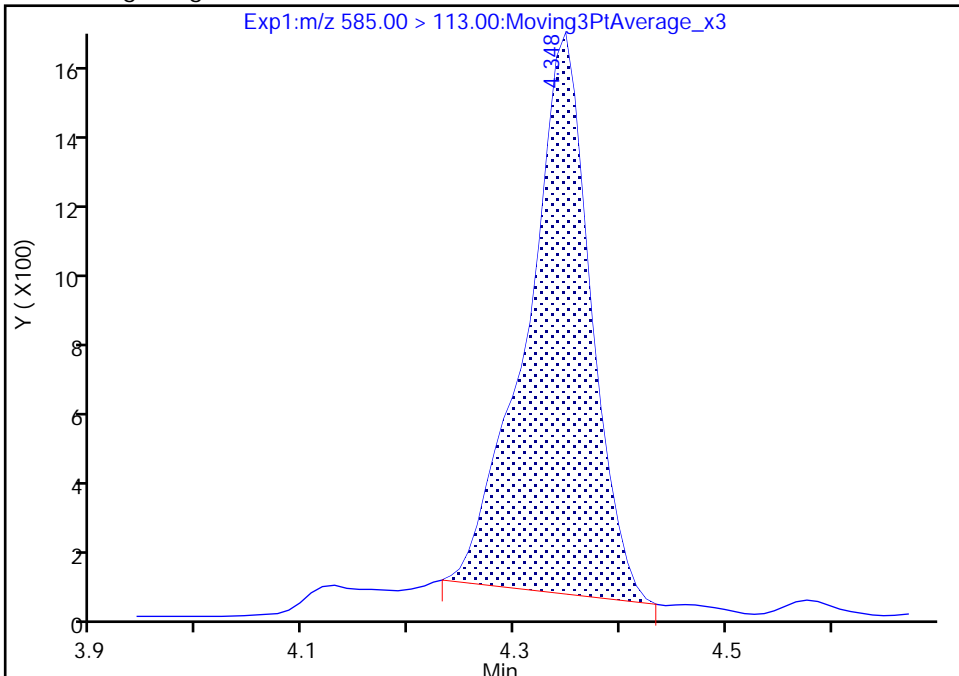
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

5 BFS_A4B, CAS: STL02883

Signal: 1

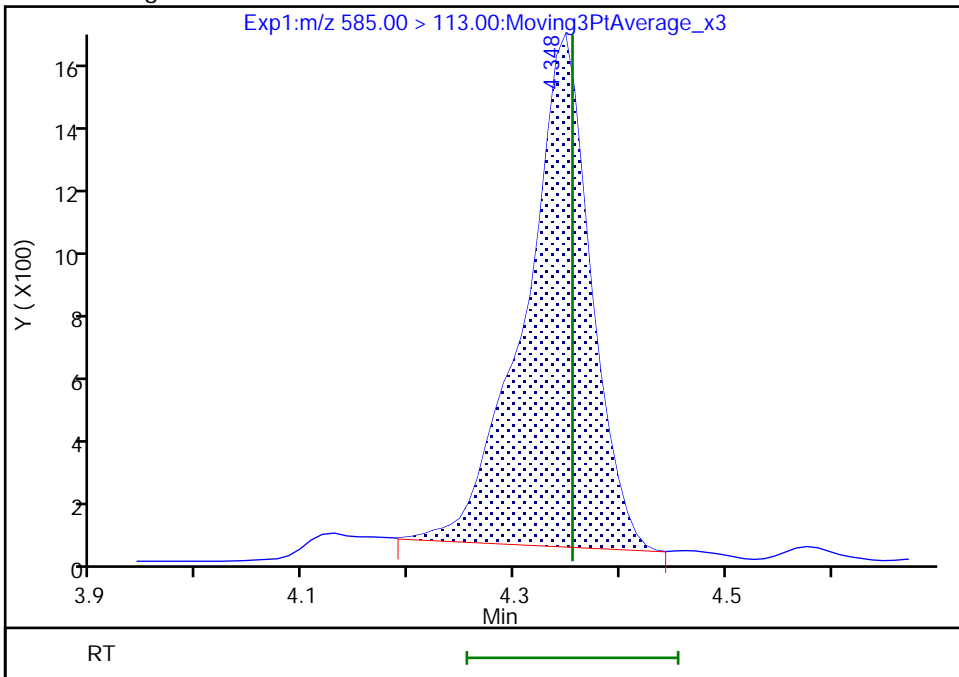
RT: 4.35
Area: 6799
Amount: 0.022807
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 7117
Amount: 0.023886
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:39
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

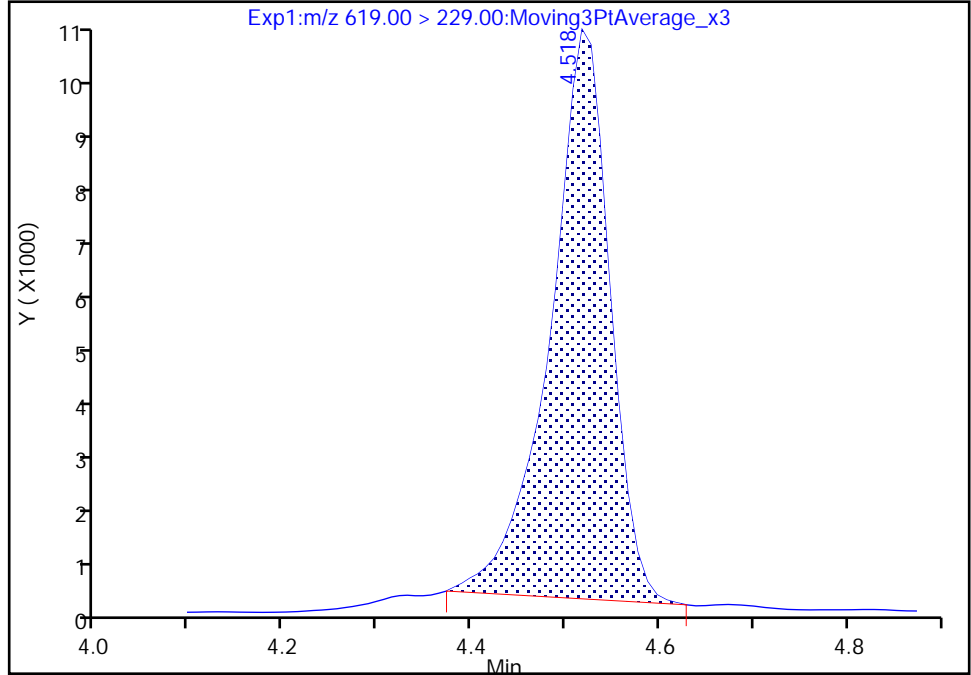
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

7 BFS_AB3, CAS: STL02884

Signal: 1

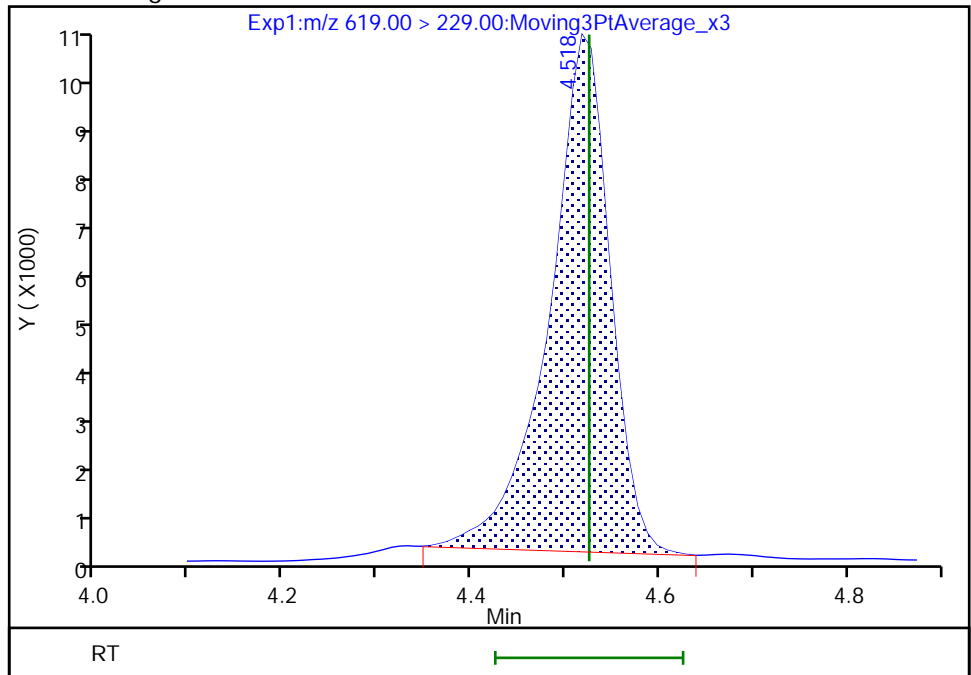
RT: 4.52
Area: 43795
Amount: 0.354716
Amount Units: ng/ml

Processing Integration Results



RT: 4.52
Area: 44814
Amount: 0.362380
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:44
Audit Action: Manually Integrated

Eurofins Lancaster Laboratories Environment Testing, LLC

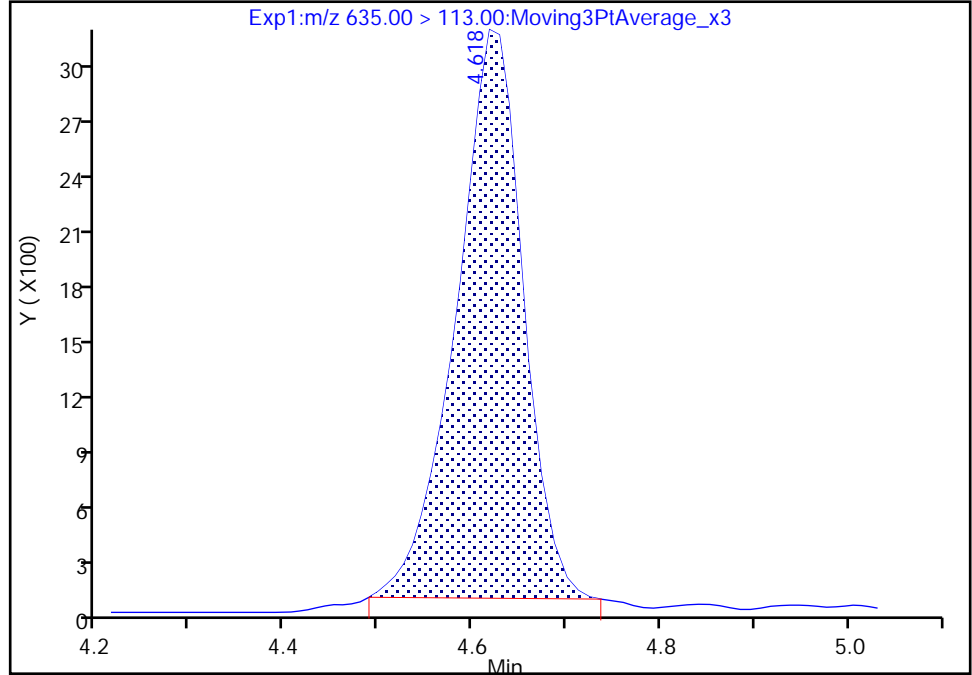
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-15.d
Injection Date: 14-Aug-2022 05:32:33 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

8 BFS_A3B2, CAS: STL02885

Signal: 1

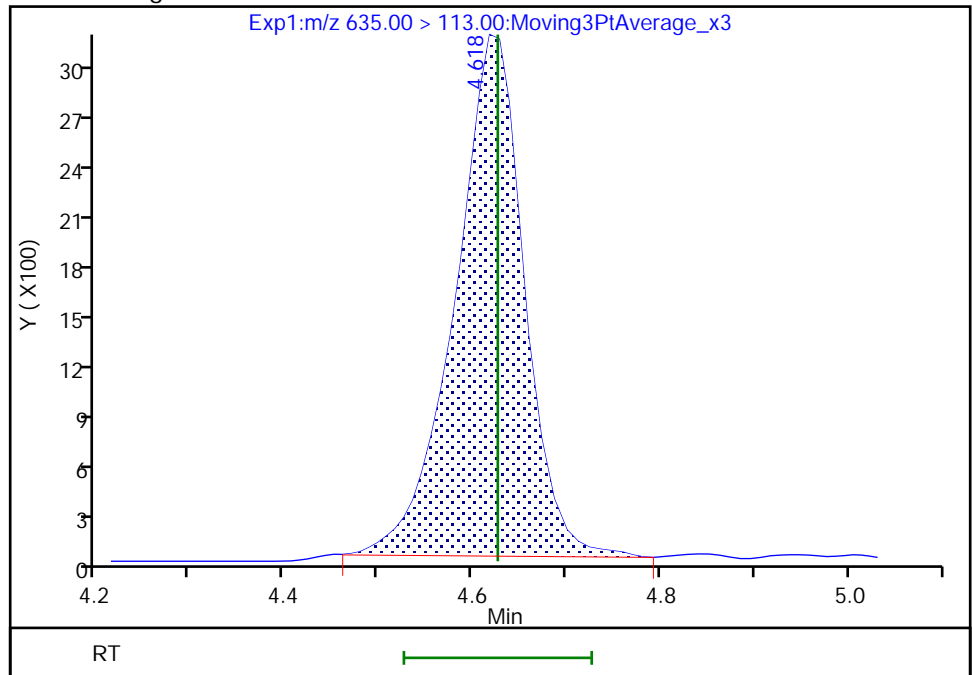
RT: 4.62
Area: 15189
Amount: 0.063645
Amount Units: ng/ml

Processing Integration Results



RT: 4.62
Area: 15972
Amount: 0.066725
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:34:48
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285708/2 Calibration Date: 08/14/2022 05:45
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.838		1.90	1.78	6.6	30.0
BFS_A3B	L1ID		1.992		2.05	1.99	3.2	30.0
BFS_B3	L1ID		1.129		6.66	6.34	5.1	30.0
BFS_A2B2	Q2ID		0.7982		14.3	13.9	2.8	30.0
BFS_A4B	L1ID		2.644		1.22	1.10	10.7	30.0
BFS_AB3	Q2ID		1.166		16.2	14.9	9.0	30.0
BFS_A3B2	Q2ID		2.231		2.85	2.62	8.8	30.0
BFS_B4	Q2ID		0.7062		3.63	3.46	5.0	30.0
BFS_A2B3	L1ID		0.0717		0.279	0.262	6.6	30.0
13C3 HFPO-DA	Ave	0.2006	0.1991		4.96	5.00	-0.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-16.d
 Lims ID: CCV 2_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Aug-2022 05:45:07 ALS Bottle#: 6 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:35:10

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.924	3.932	-0.008	0.904	383904	1.90	107	1017
2 BFS_A3B	519.00 > 113.00	4.003	4.010	-0.007	0.922	465152	2.05	103	31.8
3 BFS_B3	553.00 > 345.00	4.154	4.163	-0.009	0.957	839466	6.66	105	49.4
4 BFS_A2B2	569.00 > 229.00	4.266	4.263	0.003	0.983	1299602	14.3	103	78.9
D 6 13C3 HFPO-DA	332.00 > 287.00	4.341	4.346	-0.005	0.877	586382	4.96	99.3	621
5 BFS_A4B	585.00 > 113.00	4.349	4.355	-0.006	1.002	341170	1.22	111	101
7 BFS_AB3	619.00 > 229.00	4.528	4.525	0.003	1.043	2034926	16.2	109	619
8 BFS_A3B2	635.00 > 113.00	4.619	4.627	-0.008	1.064	685334	2.85	109	458
9 BFS_B4	669.00 > 461.00	4.765	4.760	0.004	1.098	286382	3.63	105	408
10 BFS_A2B3	685.00 > 571.00	4.867	4.874	-0.007	1.121	2202	0.2792	107	57.4
									M
									M
* 11 13C2 PFOA	415.00 > 370.00	4.951	4.958	-0.007		2944460	5.00		774

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-16.d

Injection Date: 14-Aug-2022 05:45:07

Instrument ID: 30733

Lims ID: CCV_2_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

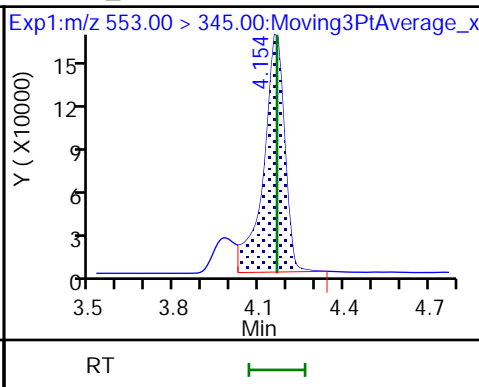
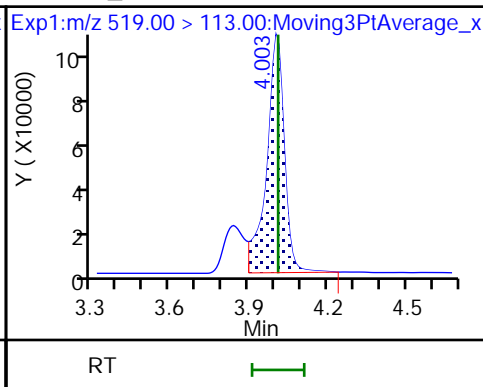
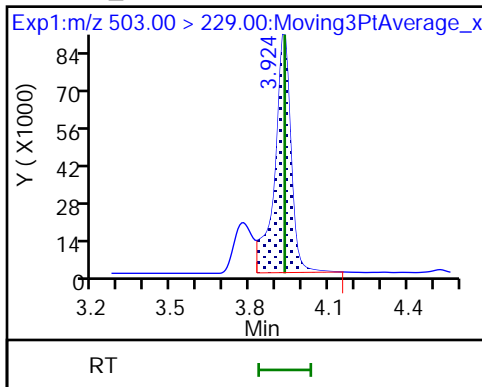
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

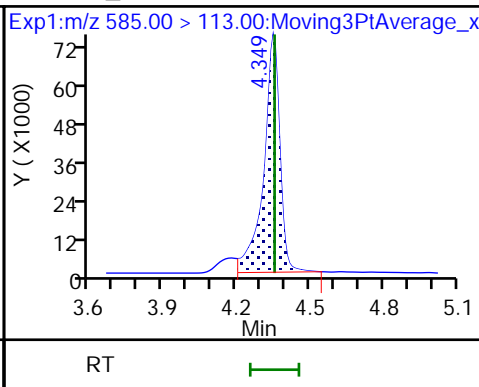
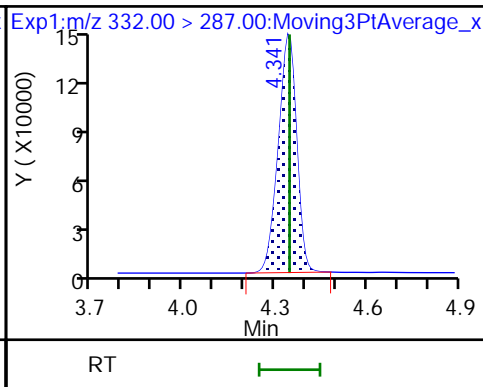
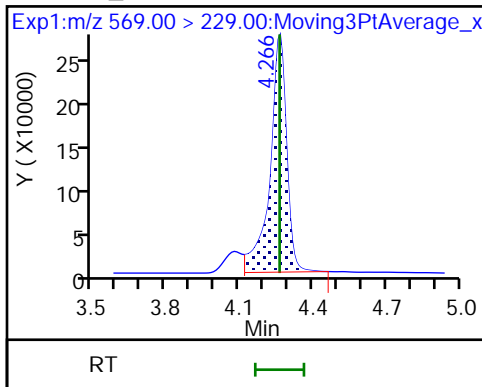
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

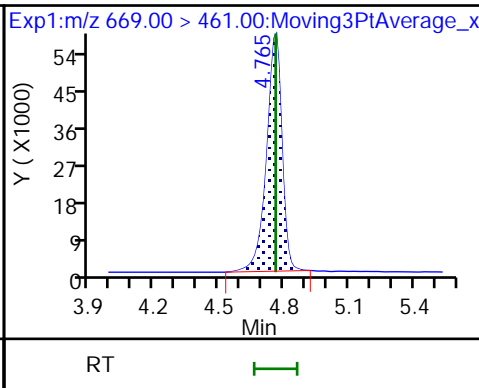
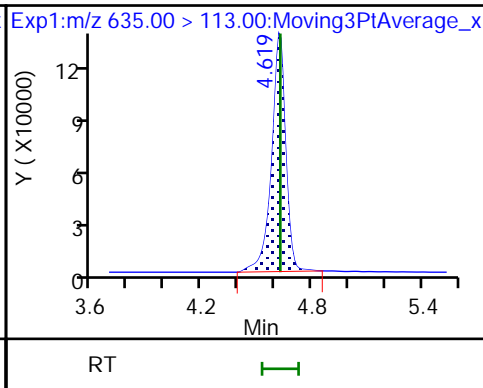
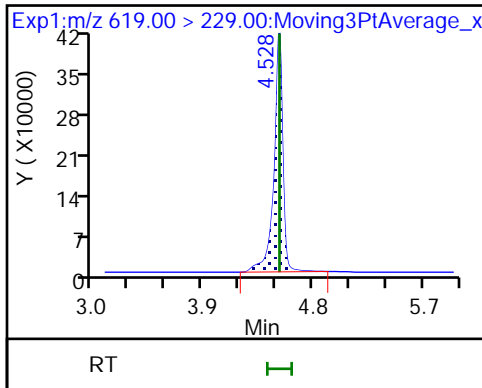
5 BFS_A4B



7 BFS_AB3

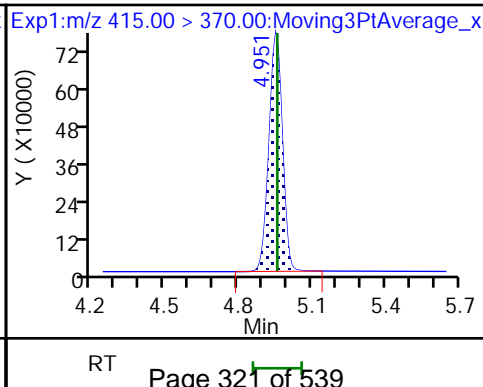
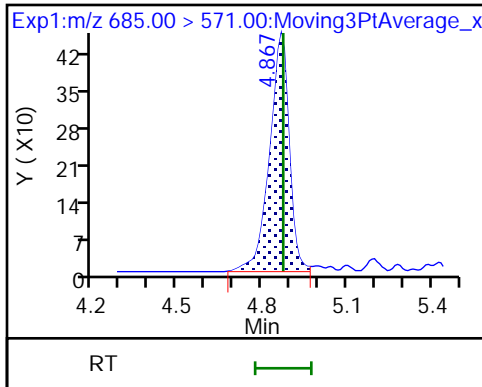
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

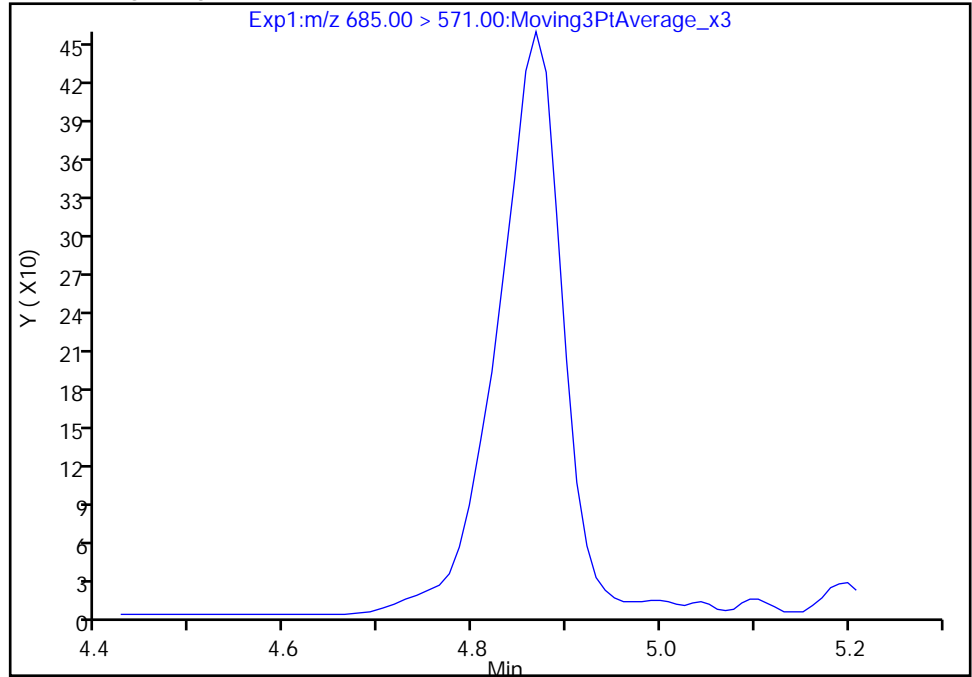
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-16.d
Injection Date: 14-Aug-2022 05:45:07 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

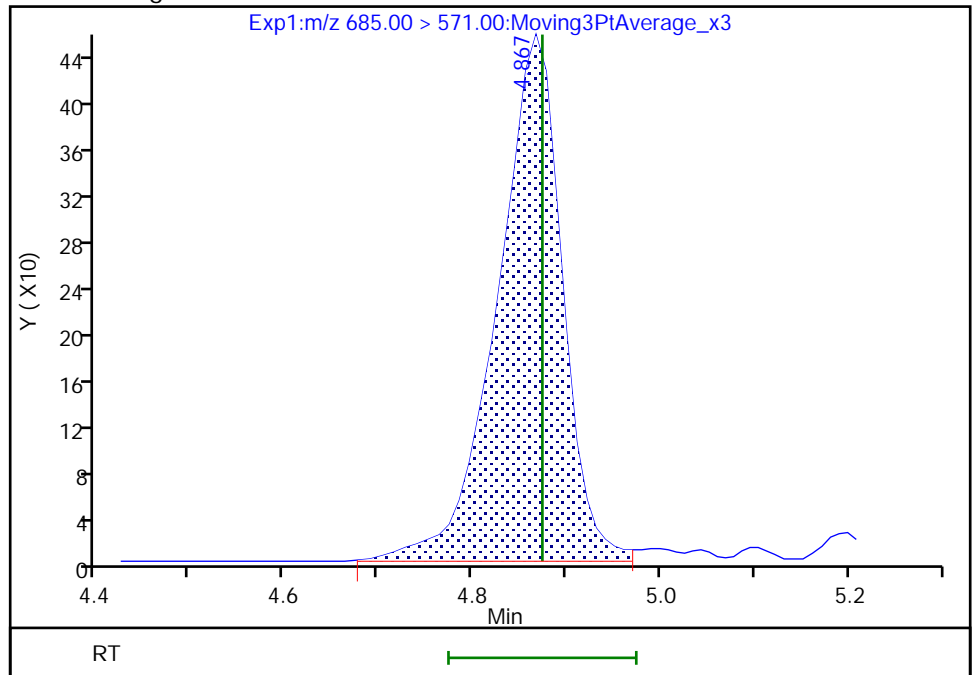
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.87
Area: 2202
Amount: 0.279211
Amount Units: ng/ml



Reviewer: JVK6, 15-Aug-2022 07:35:05
Audit Action: Manually Integrated

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285708/16 Calibration Date: 08/14/2022 08:41
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-30.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.627		4.19	4.45	-5.8	30.0
BFS_A3B	L1ID		1.842		4.74	4.98	-4.8	30.0
BFS_B3	L1ID		1.059		15.6	15.8	-1.3	30.0
BFS_A2B2	Q2ID		0.7467		33.5	34.7	-3.6	30.0
BFS_A4B	L1ID		2.455		2.83	2.75	2.8	30.0
BFS_AB3	Q2ID		1.033		36.1	37.2	-3.0	30.0
BFS_A3B2	Q2ID		2.012		6.44	6.55	-1.6	30.0
BFS_B4	Q2ID		0.6572		8.46	8.64	-2.1	30.0
BFS_A2B3	L1ID		0.0664		0.648	0.655	-1.0	30.0
13C3 HFPO-DA	Ave	0.2006	0.2044		5.10	5.00	1.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-30.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Aug-2022 08:41:32 ALS Bottle#: 7 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:01 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:35:22

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.932	3.932	0.0	0.905	882076	4.19	94.2	1166
2 BFS_A3B	519.00 > 113.00	4.011	4.010	0.001	0.923	1116162	4.74	95.2	38.3
3 BFS_B3	553.00 > 345.00	4.163	4.163	0.0	0.958	2043936	15.6	98.7	48.2
4 BFS_A2B2	569.00 > 229.00	4.264	4.263	0.001	0.981	3155140	33.5	96.4	86.3
D 6 13C3 HFPO-DA	332.00 > 287.00	4.347	4.346	0.001	0.877	608702	5.10	102	695
5 BFS_A4B	585.00 > 113.00	4.355	4.355	0.0	1.002	822005	2.83	103	338
7 BFS_AB3	619.00 > 229.00	4.526	4.525	0.001	1.041	4678421	36.1	97.0	607
8 BFS_A3B2	635.00 > 113.00	4.627	4.627	0.0	1.064	1604248	6.44	98.4	526
9 BFS_B4	669.00 > 461.00	4.761	4.760	0.001	1.095	691574	8.46	97.9	532
10 BFS_A2B3	685.00 > 571.00	4.875	4.874	0.001	1.121	5296	0.6481	99.0	232 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		2977389	5.00		851

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-30.d

Injection Date: 14-Aug-2022 08:41:32

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

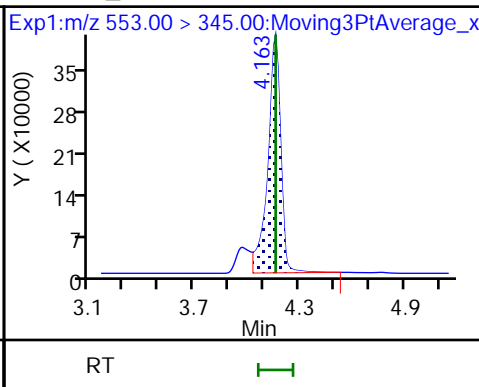
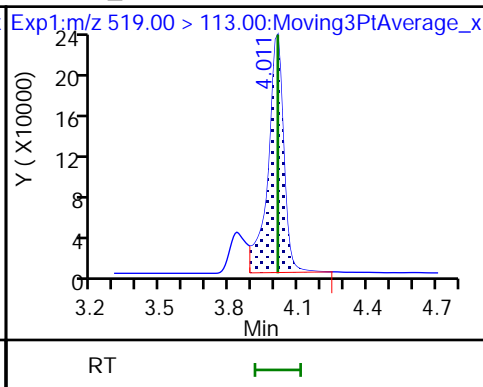
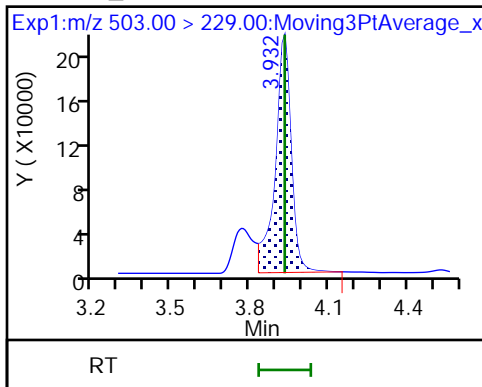
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

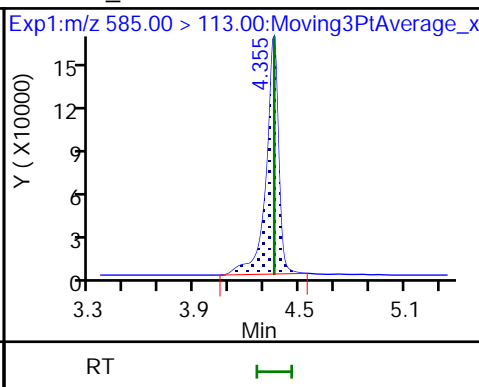
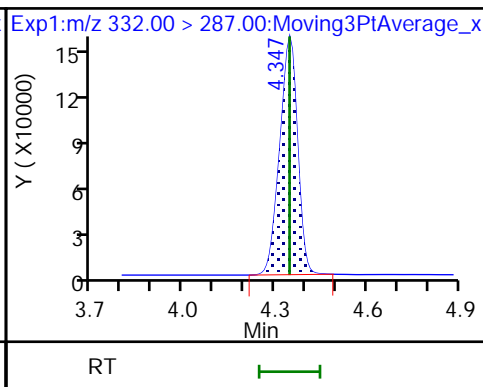
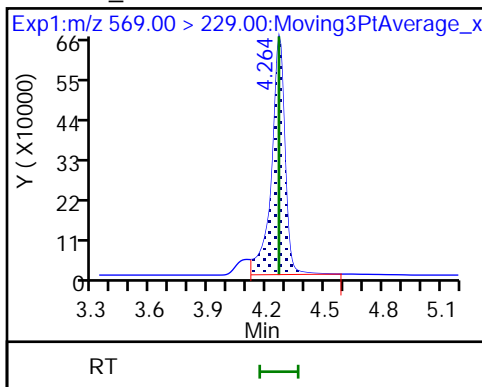
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

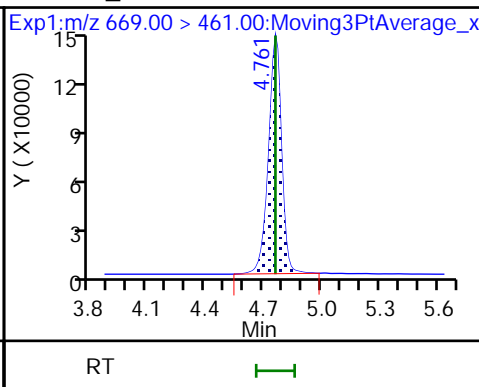
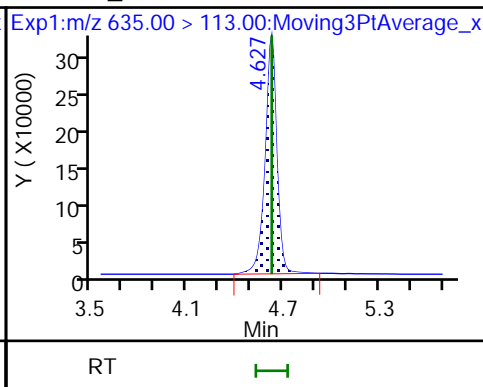
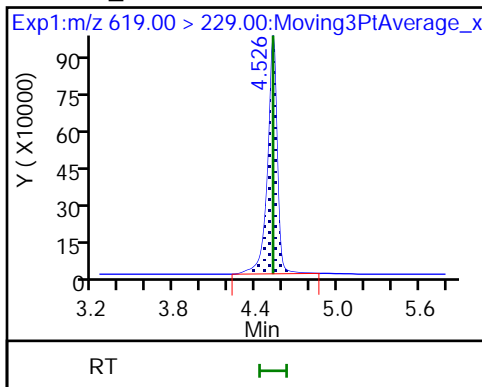
5 BFS_A4B



7 BFS_AB3

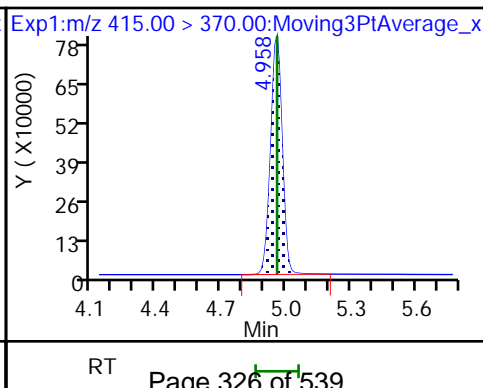
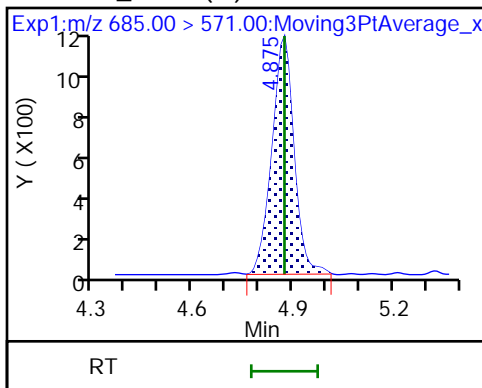
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

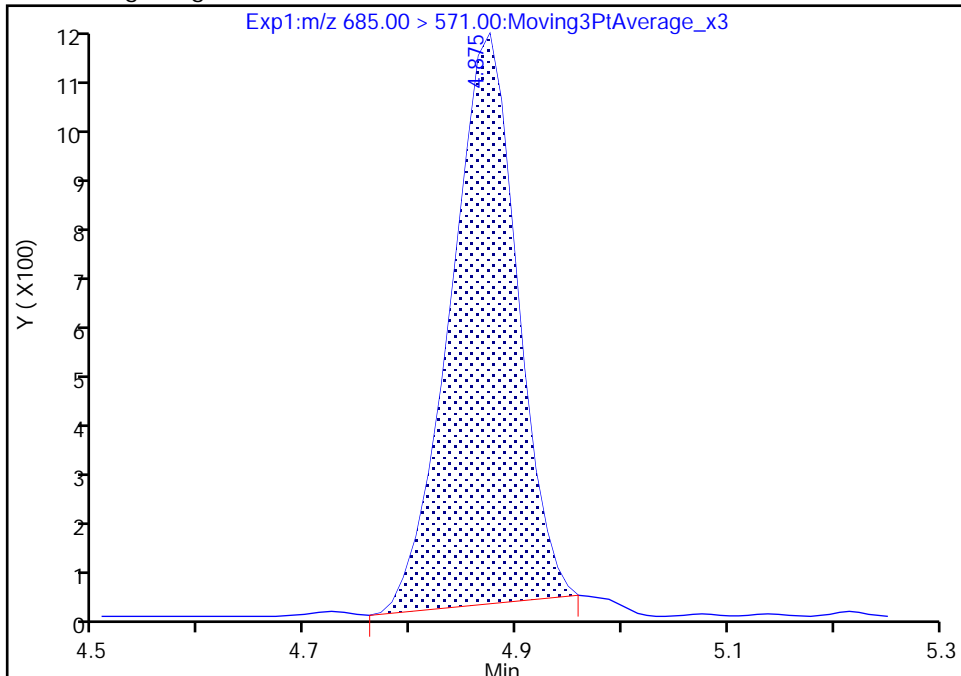
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Injection Date: 14-Aug-2022 08:41:32 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 16
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

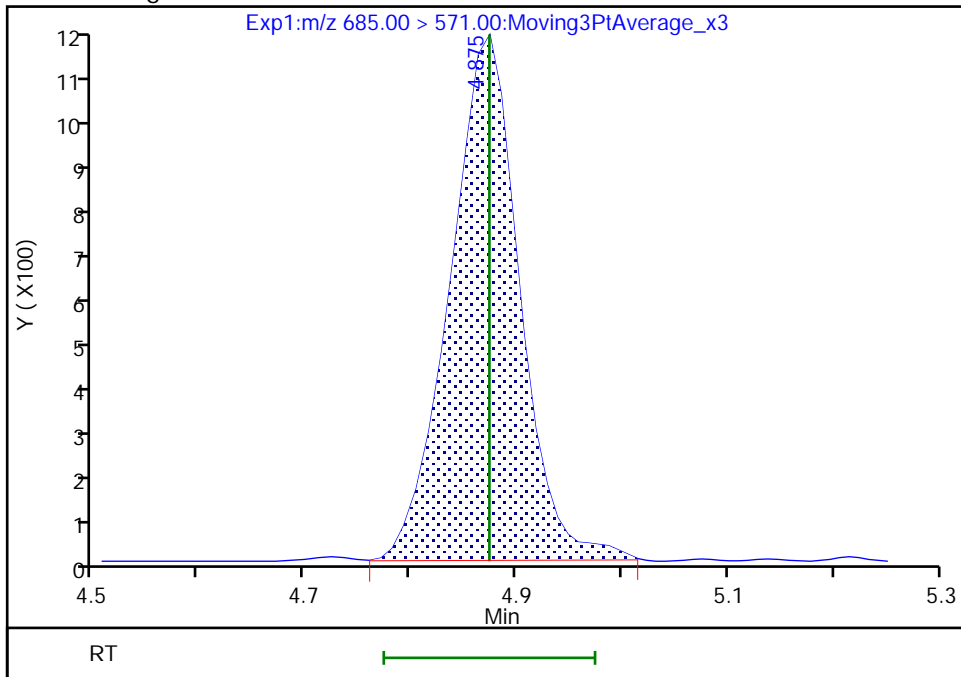
RT: 4.87
Area: 4966
Amount: 0.607678
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 5296
Amount: 0.648120
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:35:18
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 327 of 539

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285708/29 Calibration Date: 08/14/2022 11:25
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG13BFS-43.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.675		8.63	8.91	-3.1	30.0
BFS_A3B	L1ID		1.916		9.84	9.95	-1.1	30.0
BFS_B3	L1ID		1.083		32.0	31.7	0.9	30.0
BFS_A2B2	Q2ID		0.7251		65.4	69.4	-5.8	30.0
BFS_A4B	L1ID		2.333		5.37	5.50	-2.3	30.0
BFS_AB3	Q2ID		1.004		70.9	74.4	-4.7	30.0
BFS_A3B2	Q2ID		1.918		12.3	13.1	-5.7	30.0
BFS_B4	Q2ID		0.6307		16.3	17.3	-5.8	30.0
BFS_A2B3	L1ID		0.0591		1.15	1.31	-11.9	30.0
13C3 HFPO-DA	Ave	0.2006	0.2086		5.20	5.00	4.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-43.d
 Lims ID: CCV 4_CAL7
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Aug-2022 11:25:17 ALS Bottle#: 8 Worklist Smp#: 29
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 4_CAL7
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-029
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:09 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:35:29

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.931	3.932	-0.001	0.905	1873204	8.63	96.9	1295
2 BFS_A3B	519.00 > 113.00	4.010	4.010	0.0	0.923	2394708	9.84	98.9	34.0
3 BFS_B3	553.00 > 345.00	4.162	4.163	-0.001	0.958	4309816	32.0	101	49.8
4 BFS_A2B2	569.00 > 229.00	4.262	4.263	-0.001	0.981	6320315	65.4	94.2	81.3
D 6 13C3 HFPO-DA	332.00 > 287.00	4.345	4.346	-0.001	0.877	627847	5.20	104	788
5 BFS_A4B	585.00 > 113.00	4.353	4.355	-0.002	1.002	1611510	5.37	97.7	130
7 BFS_AB3	619.00 > 229.00	4.523	4.525	-0.002	1.041	9375201	70.9	95.3	634
8 BFS_A3B2	635.00 > 113.00	4.624	4.627	-0.003	1.064	3155030	12.3	94.3	578
9 BFS_B4	669.00 > 461.00	4.758	4.760	-0.002	1.095	1369084	16.3	94.2	536
10 BFS_A2B3	685.00 > 571.00	4.873	4.874	-0.001	1.122	9715	1.15	88.1	168
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		3010254	5.00		770

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_BFS7_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-43.d

Injection Date: 14-Aug-2022 11:25:17

Instrument ID: 30733

Lims ID: CCV 4_CAL7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

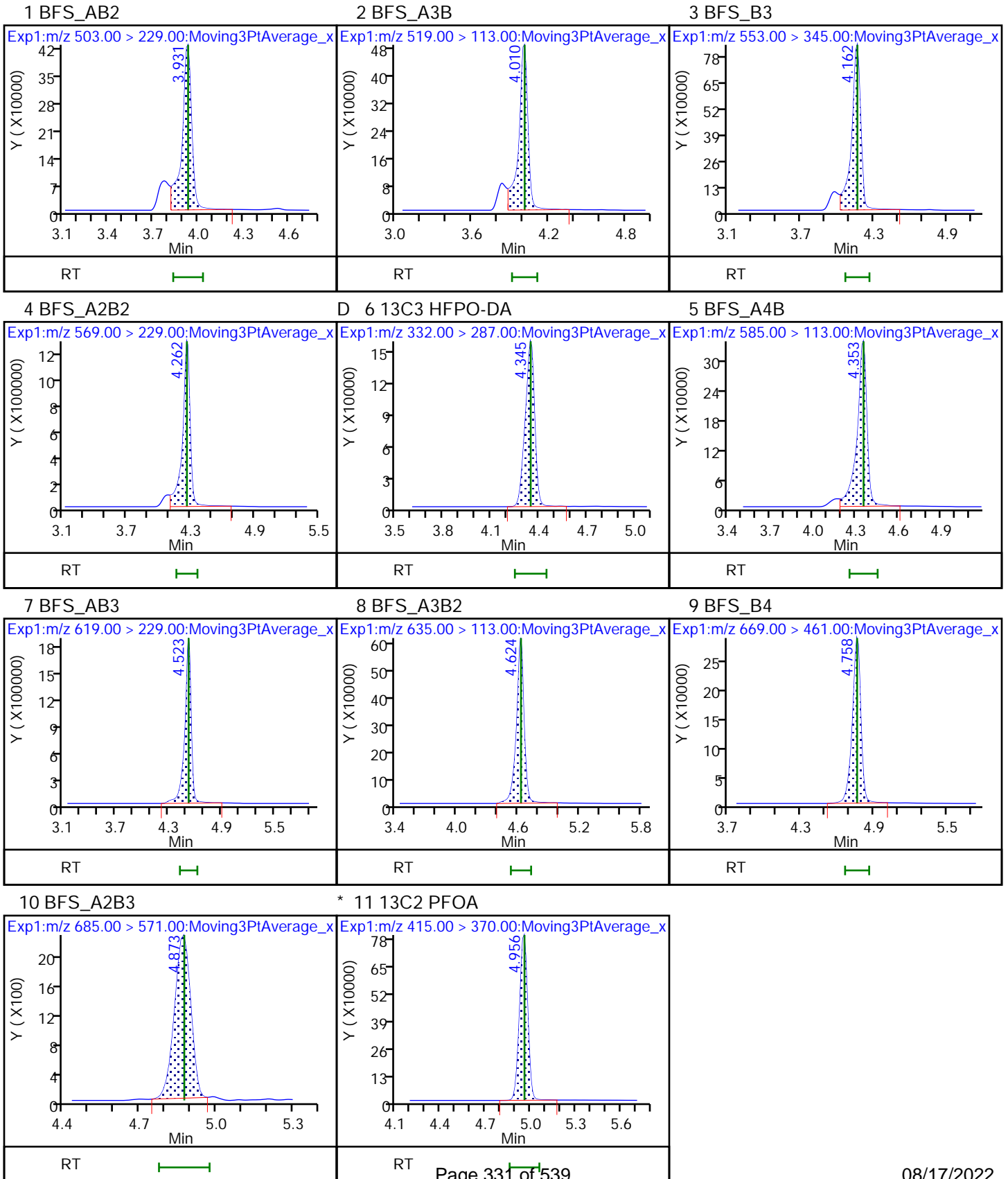
Worklist Smp#: 29

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-285953/1 Calibration Date: 08/15/2022 09:11
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG15BFS-05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.785		0.0515	0.0445	15.7	50.0
BFS_A3B	L1ID		1.798		0.0553	0.0498	11.1	50.0
BFS_B3	L1ID		1.118		0.152	0.158	-3.9	50.0
BFS_A2B2	Q2ID		0.7767		0.400	0.347	15.3	50.0
BFS_A4B	L1ID		2.241		0.0256	0.0275	-7.1	50.0
BFS_AB3	Q2ID		1.021		0.378	0.372	1.6	50.0
BFS_A3B2	Q2ID		1.977		0.0668	0.0655	2.0	50.0
BFS_B4	Q2ID		0.6526		0.0821	0.0864	-5.0	50.0
BFS_A2B3	L1ID					0.00655	-100.0*	50.0
13C3 HFPO-DA	Ave	0.2006	0.2085		5.20	5.00	3.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 15-Aug-2022 09:11:54 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:11 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:29:47

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2									M
503.00 > 229.00	3.942	3.932	0.010	0.903	10272	0.0515	116	224	M
2 BFS_A3B									M
519.00 > 113.00	4.021	4.008	0.013	0.922	11559	0.0553	111	81.4	M
3 BFS_B3									M
553.00 > 345.00	4.175	4.161	0.014	0.957	22893	0.1522	96.1	92.9	M
4 BFS_A2B2									
569.00 > 229.00	4.288	4.267	0.021	0.983	34827	0.4002	115	227	
D 6 13C3 HFPO-DA									
332.00 > 287.00	4.363	4.348	0.015	0.877	645958	5.20	104	736	
5 BFS_A4B									
585.00 > 113.00	4.372	4.353	0.019	1.002	7963	0.0256	92.9	125	
7 BFS_AB3									
619.00 > 229.00	4.544	4.525	0.019	1.041	49073	0.3780	102	357	
8 BFS_A3B2									
635.00 > 113.00	4.647	4.627	0.020	1.065	16726	0.0668	102	236	
9 BFS_B4									M
669.00 > 461.00	4.782	4.762	0.020	1.096	7288	0.0821	95.0	40.4	M
* 11 13C2 PFOA									
415.00 > 370.00	4.977	4.958	0.019		3098397	5.00		864	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS1_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d

Injection Date: 15-Aug-2022 09:11:54

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

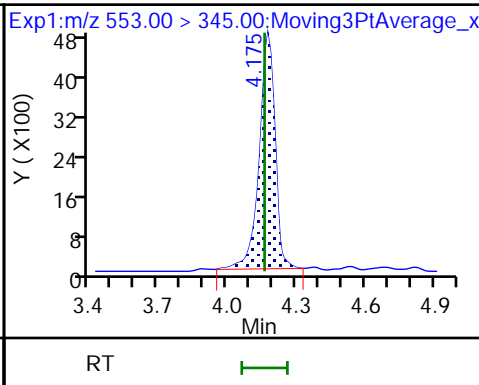
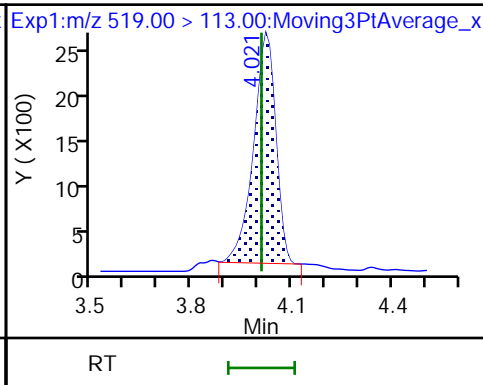
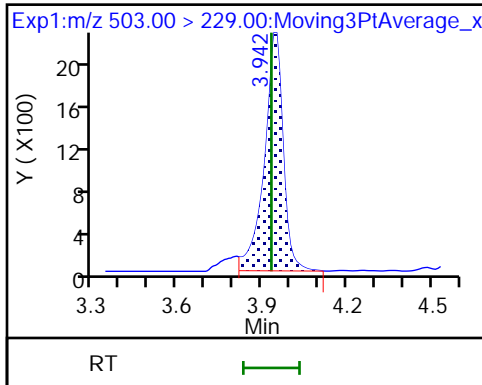
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (M)

2 BFS_A3B (M)

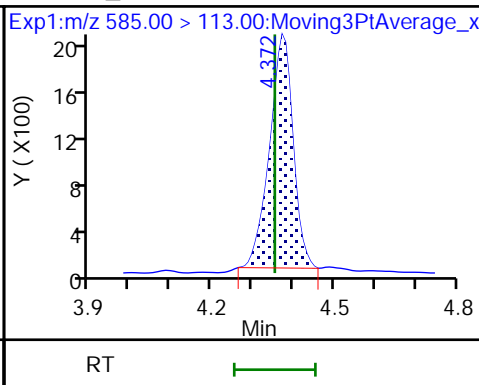
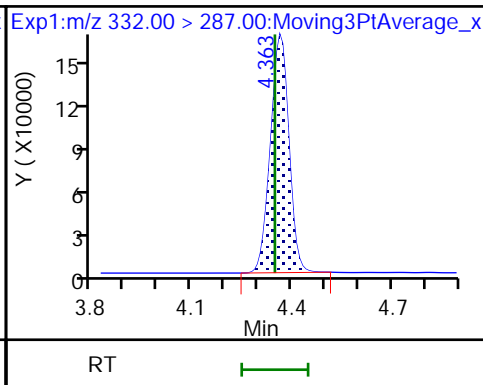
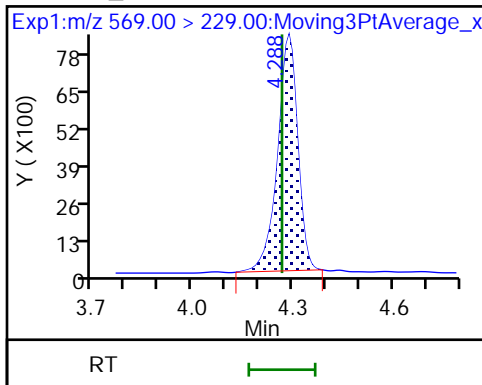
3 BFS_B3 (M)



4 BFS_A2B2

D 6 13C3 HFPO-DA

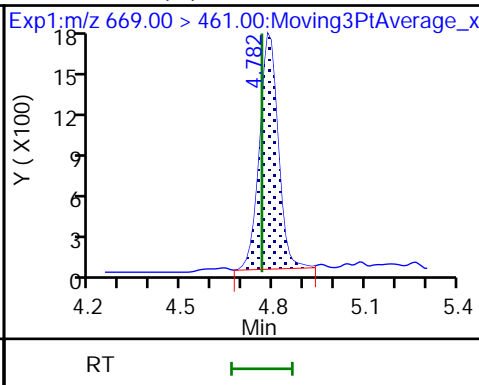
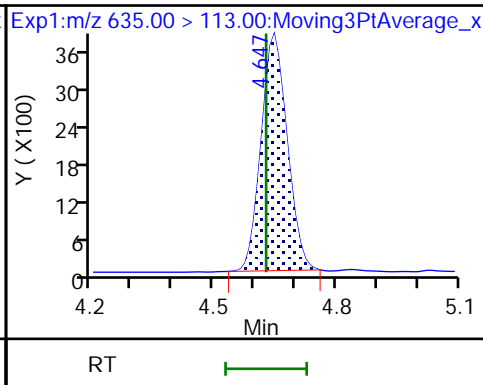
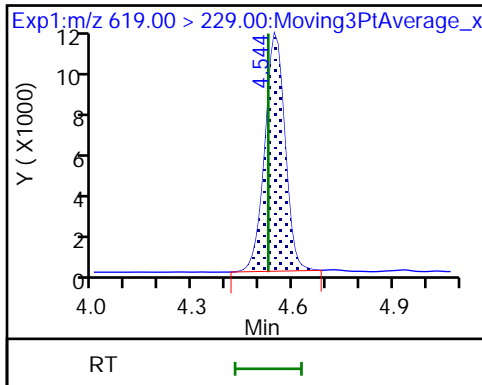
5 BFS_A4B



7 BFS_AB3

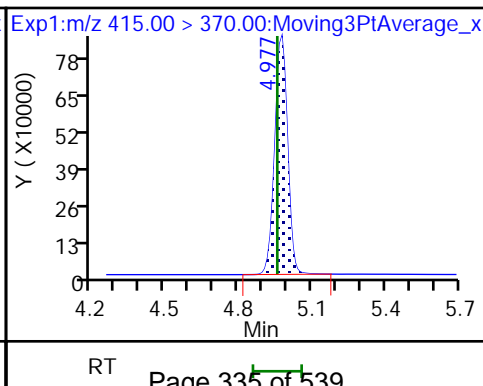
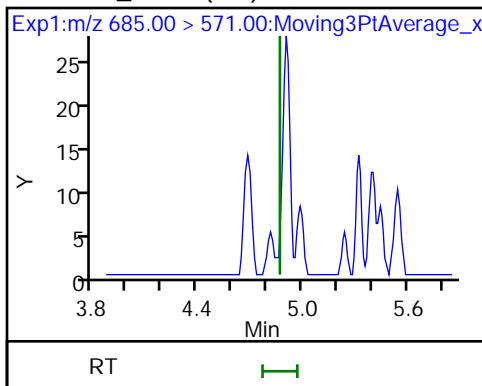
8 BFS_A3B2

9 BFS_B4 (M)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

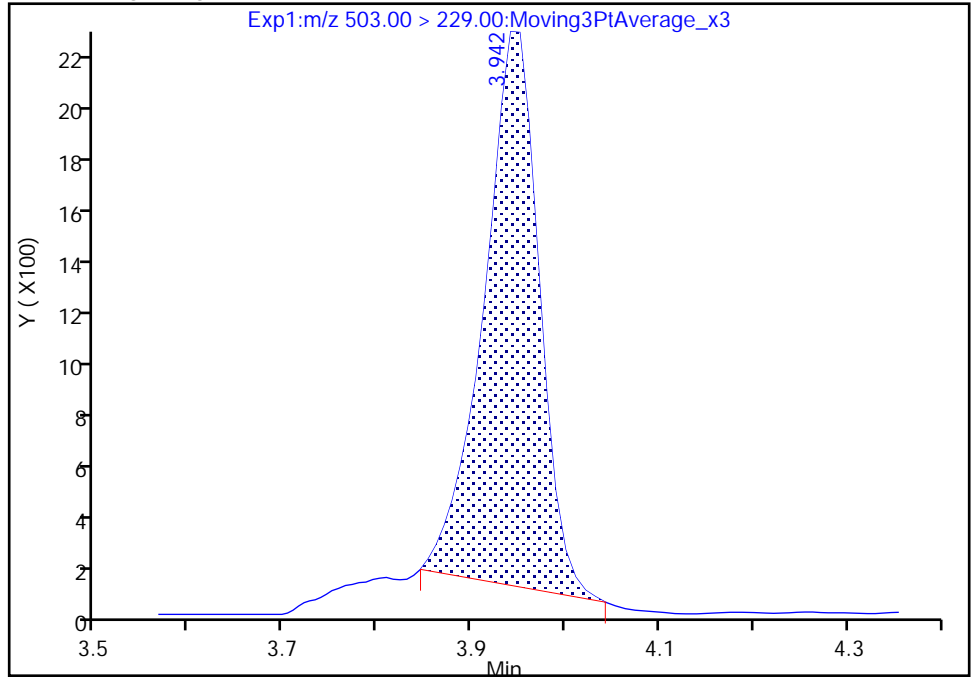
Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d
Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

1 BFS_AB2, CAS: STL02879

Signal: 1

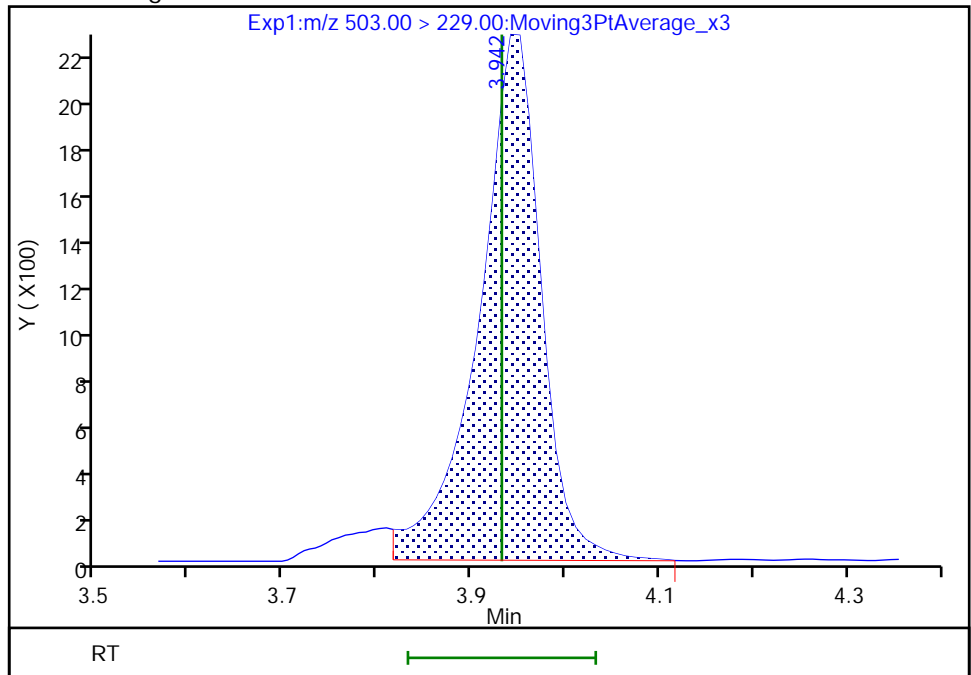
RT: 3.94
Area: 8715
Amount: 0.044535
Amount Units: ng/ml

Processing Integration Results



RT: 3.94
Area: 10272
Amount: 0.051504
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:07
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

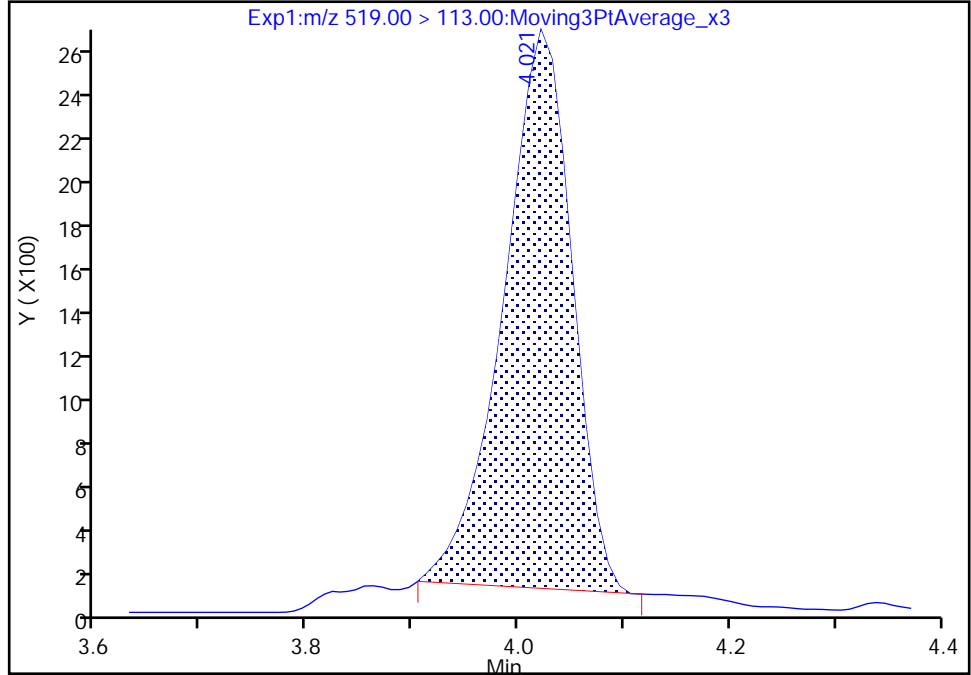
Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d
Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

2 BFS_A3B, CAS: STL02880

Signal: 1

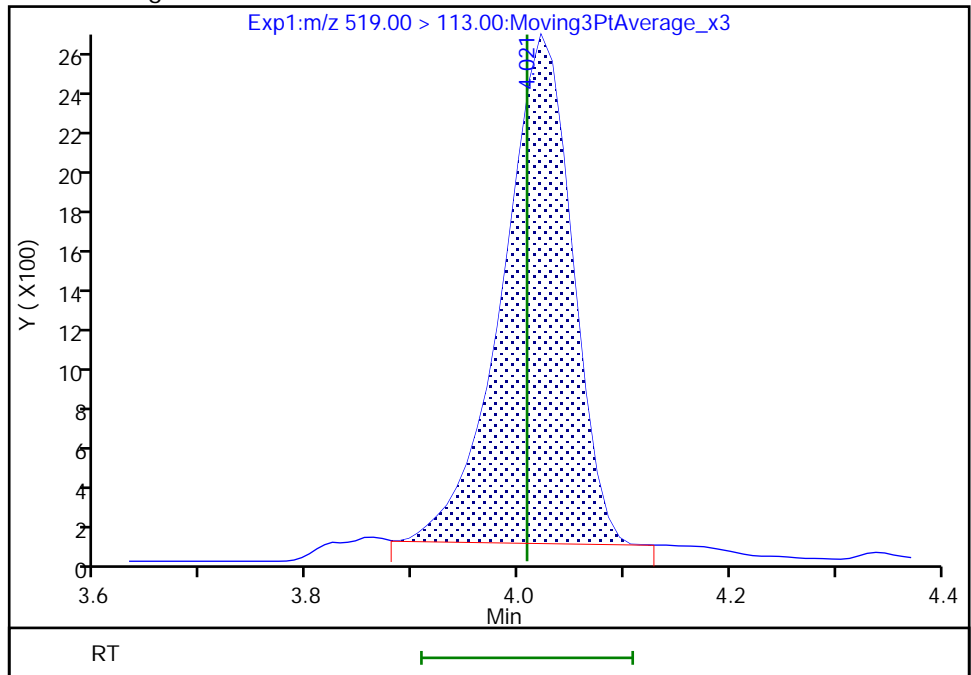
RT: 4.02
Area: 11257
Amount: 0.054065
Amount Units: ng/ml

Processing Integration Results



RT: 4.02
Area: 11559
Amount: 0.055270
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:12
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

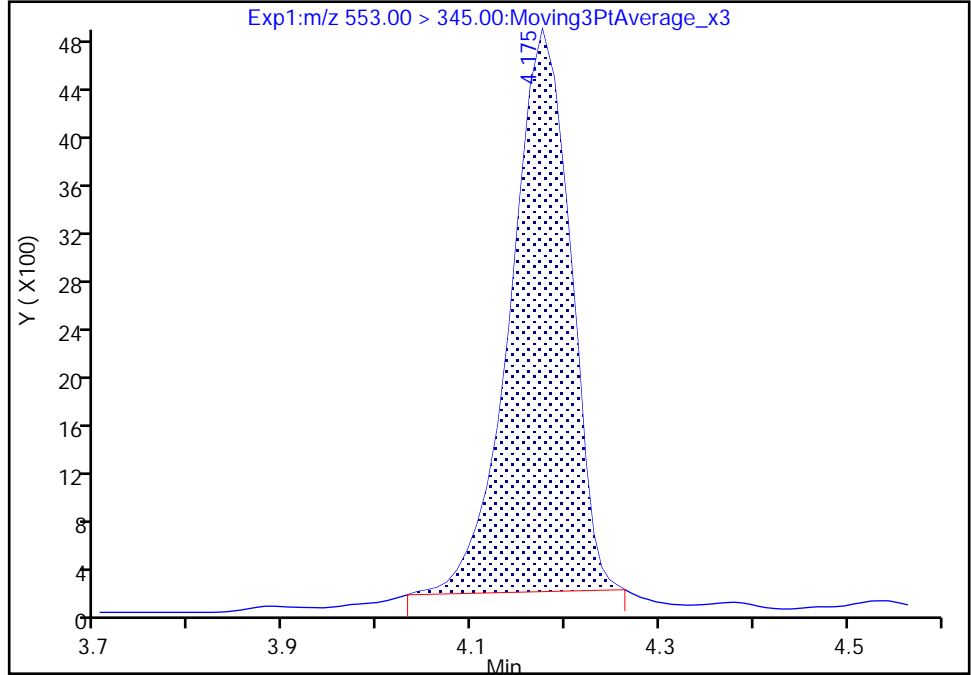
Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-05.d
Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

3 BFS_B3, CAS: STL02881

Signal: 1

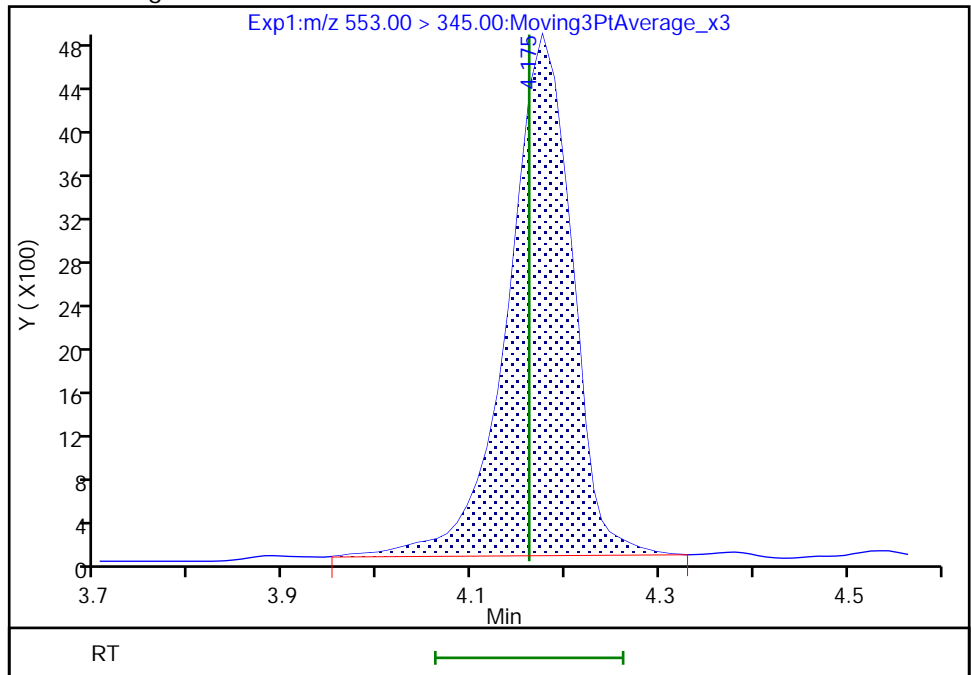
RT: 4.18
Area: 20866
Amount: 0.137594
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 22893
Amount: 0.152221
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:22
Audit Action: Manually Integrated

Audit Reason: Baseline
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Eurofins Lancaster Laboratories Environment Testing, LLC

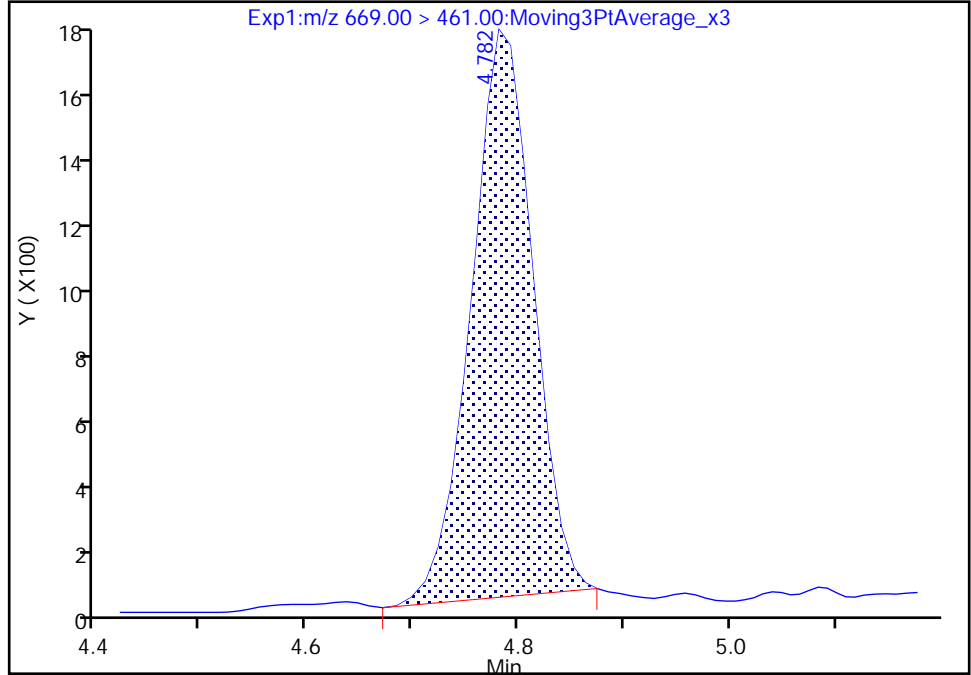
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Injection Date: 15-Aug-2022 09:11:54 Instrument ID: 30733
Lims ID: CCVL 1_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

9 BFS_B4, CAS: STL02886

Signal: 1

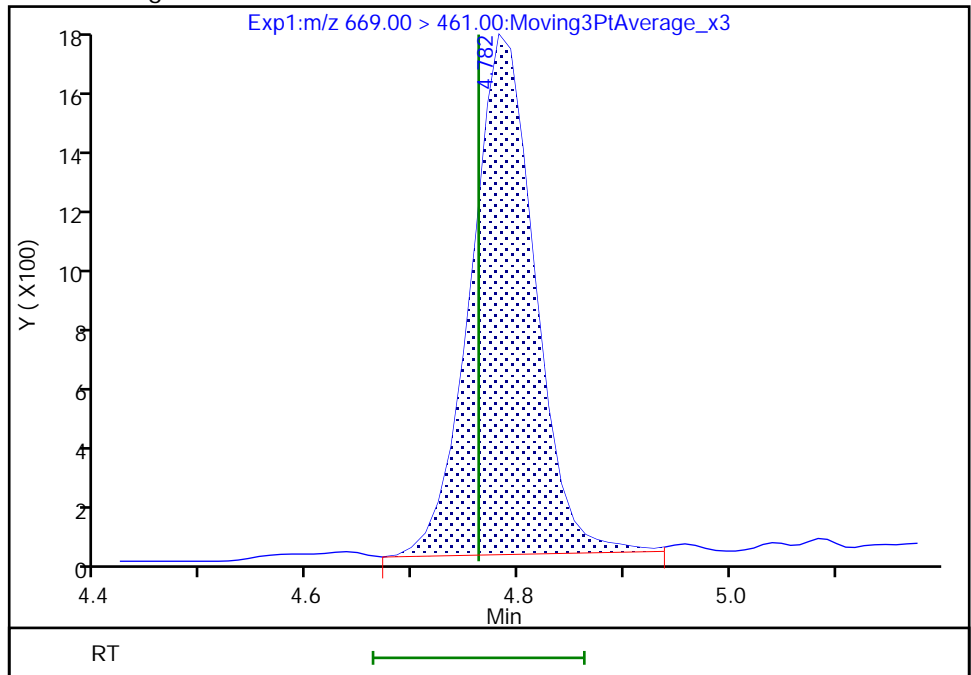
RT: 4.78
Area: 6939
Amount: 0.078130
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 7288
Amount: 0.082141
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:32
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 339 of 539

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285953/2 Calibration Date: 08/15/2022 09:25
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG15BFS-06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.913		1.98	1.78	10.9	30.0
BFS_A3B	L1ID		2.167		2.23	1.99	12.2	30.0
BFS_B3	L1ID		1.249		7.37	6.34	16.2	30.0
BFS_A2B2	Q2ID		0.8394		15.0	13.9	8.1	30.0
BFS_A4B	L1ID		2.552		1.18	1.10	6.8	30.0
BFS_AB3	Q2ID		1.120		15.6	14.9	4.6	30.0
BFS_A3B2	Q2ID		2.057		2.63	2.62	0.3	30.0
BFS_B4	Q2ID		0.6966		3.58	3.46	3.5	30.0
BFS_A2B3	L1ID		0.0642		0.250	0.262	-4.6	30.0
13C3 HFPO-DA	Ave	0.2006	0.2117		5.28	5.00	5.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-06.d
 Lims ID: CCV 2_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 15-Aug-2022 09:25:44 ALS Bottle#: 6 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL5
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:12 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:30:00

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.939	3.932	0.007	0.903	426907	1.98	111	1674
2 BFS_A3B	519.00 > 113.00	4.019	4.008	0.011	0.922	540402	2.23	112	79.4
3 BFS_B3	553.00 > 345.00	4.173	4.161	0.012	0.957	991329	7.37	116	345
4 BFS_A2B2	569.00 > 229.00	4.277	4.267	0.010	0.981	1459748	15.0	108	419
D 6 13C3 HFPO-DA	332.00 > 287.00	4.361	4.348	0.013	0.878	626283	5.28	106	721
5 BFS_A4B	585.00 > 113.00	4.369	4.353	0.016	1.002	351623	1.18	107	418
7 BFS_AB3	619.00 > 229.00	4.541	4.525	0.016	1.041	2087412	15.6	105	701
8 BFS_A3B2	635.00 > 113.00	4.634	4.627	0.007	1.063	674871	2.63	100	504
9 BFS_B4	669.00 > 461.00	4.780	4.762	0.018	1.096	301691	3.58	104	490
10 BFS_A2B3	685.00 > 571.00	4.884	4.870	0.014	1.120	2105	0.2498	95.4	98.0 M
* 11 13C2 PFOA	415.00 > 370.00	4.966	4.958	0.008		2958392	5.00		856

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS5_00005

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-06.d

Injection Date: 15-Aug-2022 09:25:44

Instrument ID: 30733

Lims ID: CCV 2_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

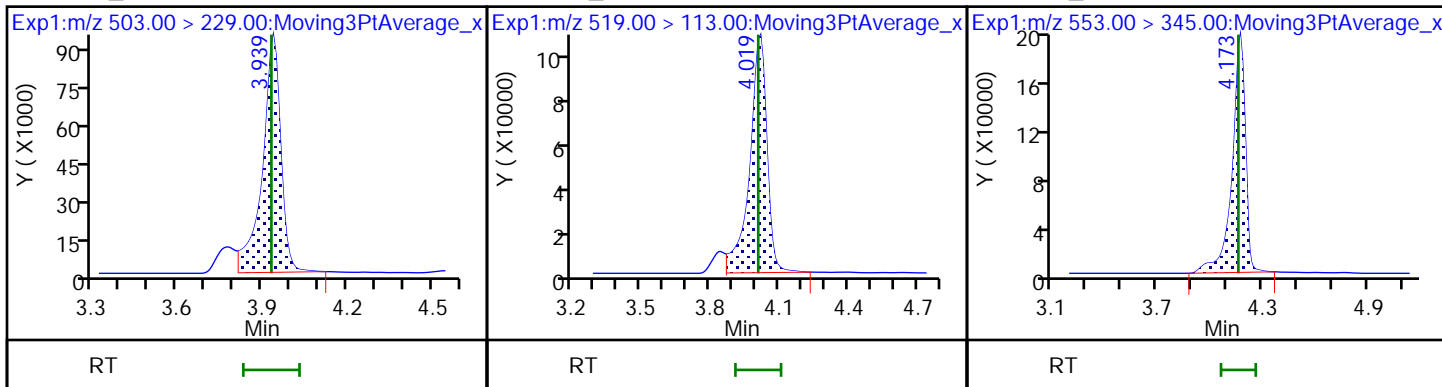
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

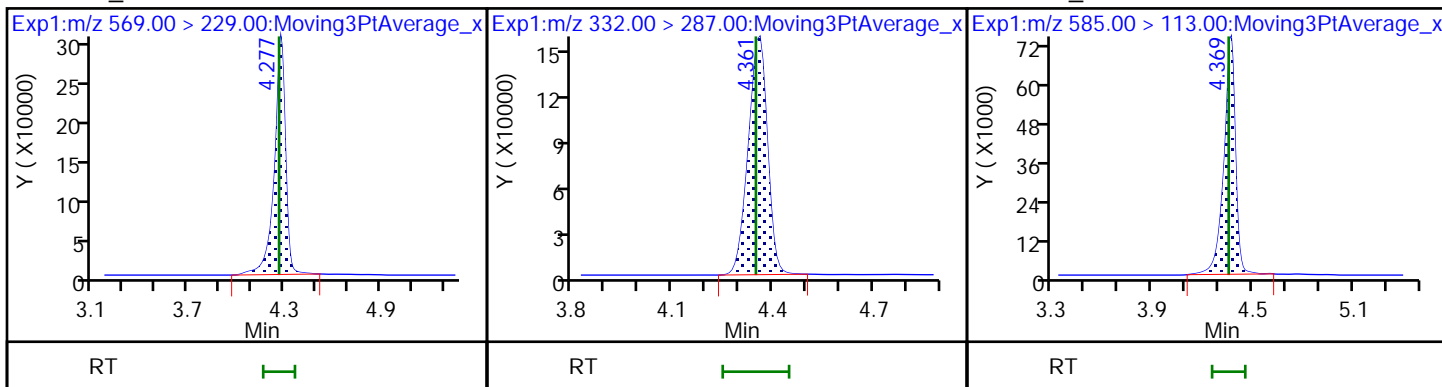
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

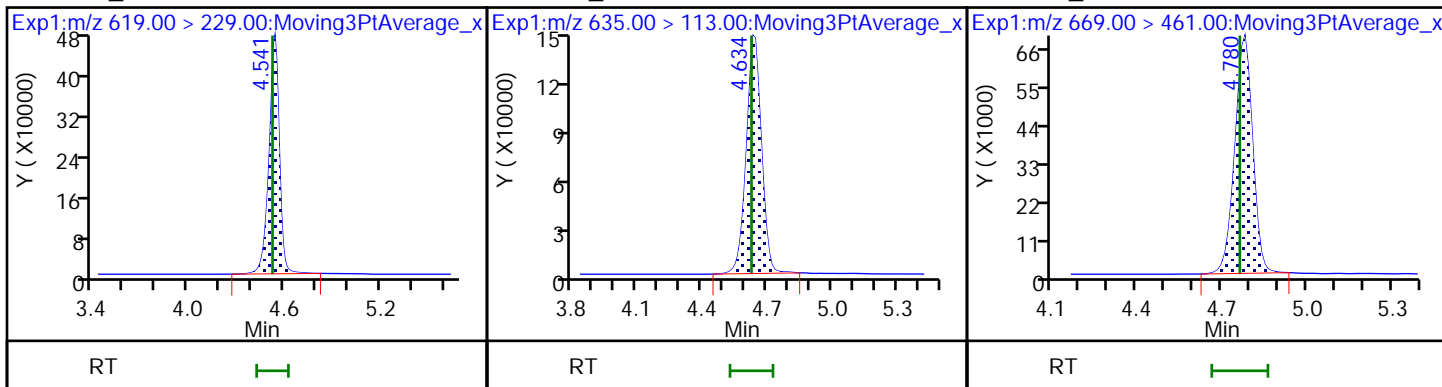
5 BFS_A4B



7 BFS_AB3

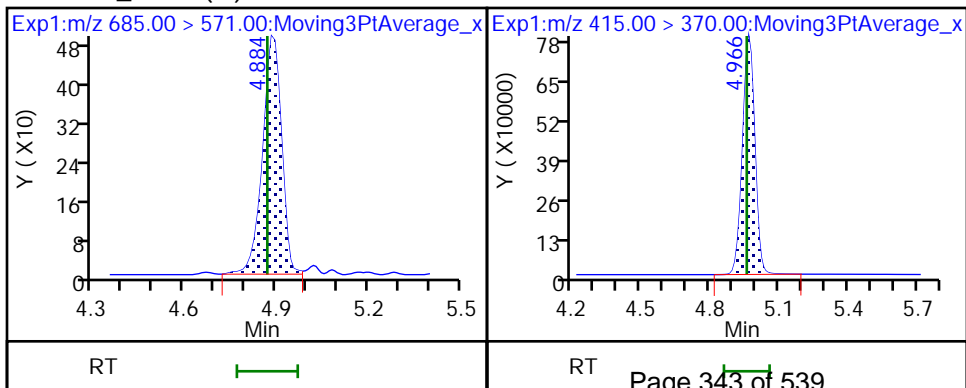
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

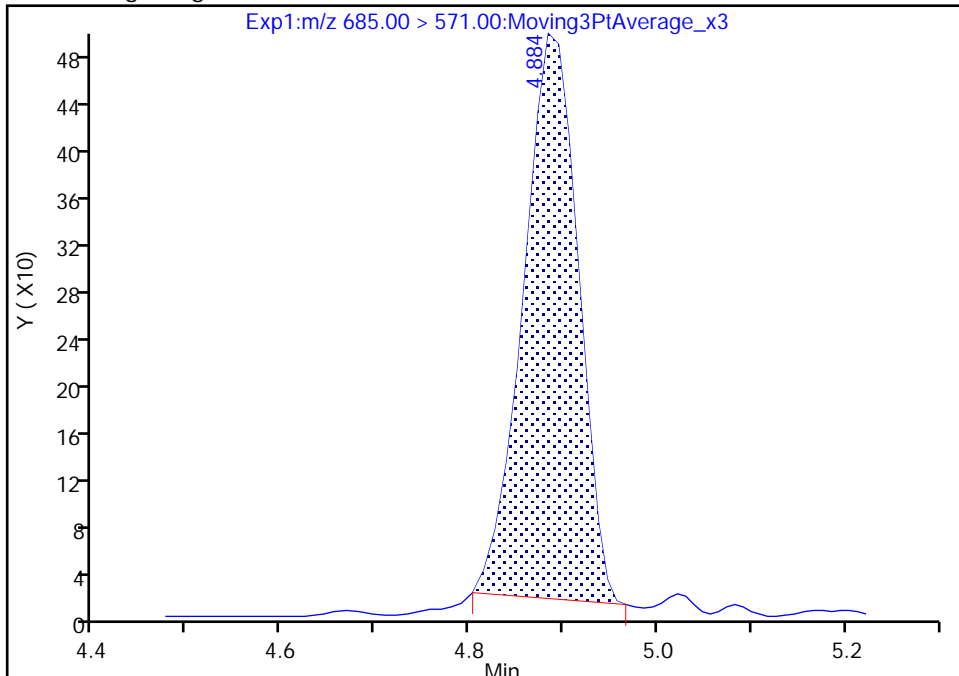
Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-06.d
Injection Date: 15-Aug-2022 09:25:44 Instrument ID: 30733
Lims ID: CCV 2_CAL5
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

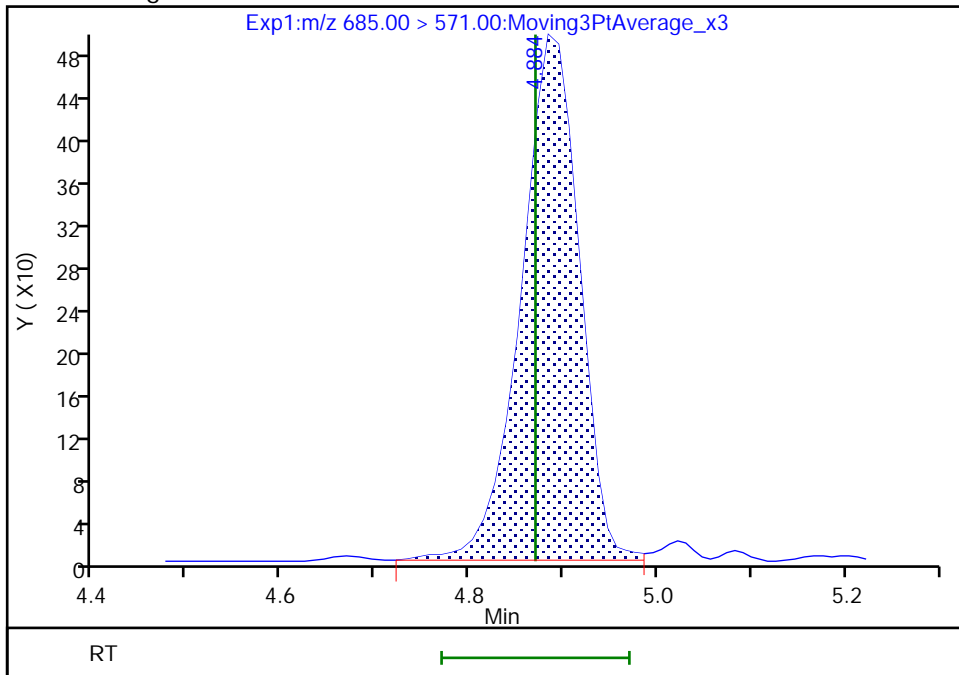
RT: 4.88
Area: 1931
Amount: 0.229084
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 2105
Amount: 0.249810
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:29:57
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285953/5 Calibration Date: 08/15/2022 10:03
 Instrument ID: 30733 Calib Start Date: 08/14/2022 02:34
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/14/2022 04:29
 Lab File ID: 22AUG15BFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
BFS_AB2	L1ID		1.717		4.43	4.45	-0.6	30.0
BFS_A3B	L1ID		2.000		5.14	4.98	3.3	30.0
BFS_B3	L1ID		1.108		16.4	15.8	3.2	30.0
BFS_A2B2	Q2ID		0.7841		35.1	34.7	1.3	30.0
BFS_A4B	L1ID		2.446		2.82	2.75	2.4	30.0
BFS_AB3	Q2ID		1.013		35.4	37.2	-4.9	30.0
BFS_A3B2	Q2ID		1.988		6.36	6.55	-2.8	30.0
BFS_B4	Q2ID		0.6319		8.13	8.64	-5.9	30.0
BFS_A2B3	L1ID		0.0577		0.563	0.655	-14.0	30.0
13C3 HFPO-DA	Ave	0.2006	0.2108		5.25	5.00	5.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-09.d
 Lims ID: CCV 3_CAL6
 Client ID:
 Sample Type: CCV
 Inject. Date: 15-Aug-2022 10:03:29 ALS Bottle#: 7 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL6
 Misc. Info.: Plate: 11 Rack: 1 410-0064139-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-BFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 11:31:16 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 11:30:14

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.942	3.932	0.010	0.903	961557	4.43	99.4	1552
2 BFS_A3B	519.00 > 113.00	4.021	4.008	0.013	0.922	1251619	5.14	103	51.7
3 BFS_B3	553.00 > 345.00	4.175	4.161	0.014	0.957	2208284	16.4	103	88.6
4 BFS_A2B2	569.00 > 229.00	4.280	4.267	0.013	0.981	3422235	35.1	101	348
D 6 13C3 HFPO-DA	332.00 > 287.00	4.363	4.348	0.015	0.878	628759	5.25	105	739
5 BFS_A4B	585.00 > 113.00	4.371	4.353	0.018	1.002	845908	2.82	102	304
7 BFS_AB3	619.00 > 229.00	4.544	4.525	0.019	1.041	4736562	35.4	95.1	654
8 BFS_A3B2	635.00 > 113.00	4.637	4.627	0.010	1.063	1636773	6.36	97.2	501
9 BFS_B4	669.00 > 461.00	4.782	4.762	0.020	1.096	686842	8.13	94.1	460
10 BFS_A2B3	685.00 > 571.00	4.885	4.870	0.015	1.120	4752	0.5629	86.0	98.6 M
* 11 13C2 PFOA	415.00 > 370.00	4.968	4.958	0.010		2982294	5.00		868

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_BFS6_00004

Amount Added: 200.00

Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220815-64139.b\22AUG15BFS-09.d

Injection Date: 15-Aug-2022 10:03:29

Instrument ID: 30733

Lims ID: CCV_3_CAL6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

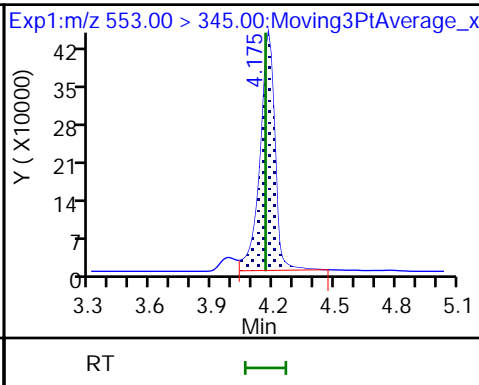
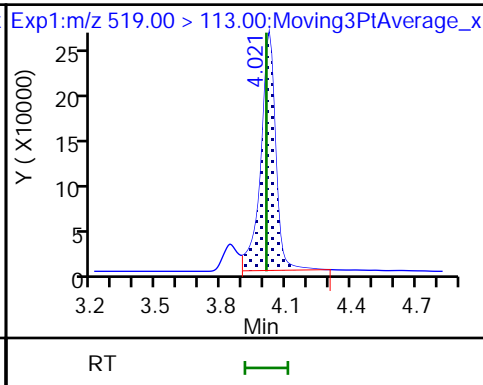
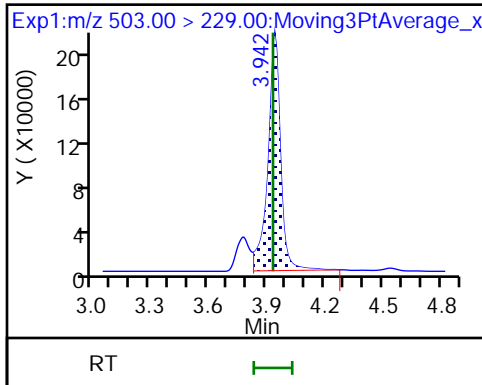
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

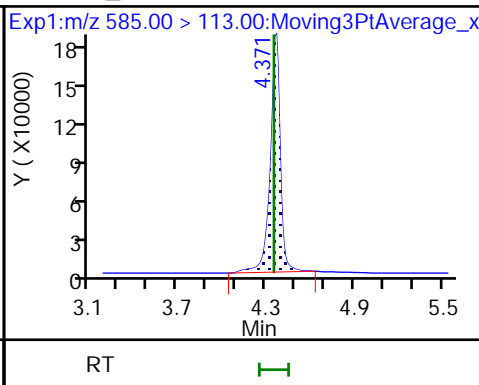
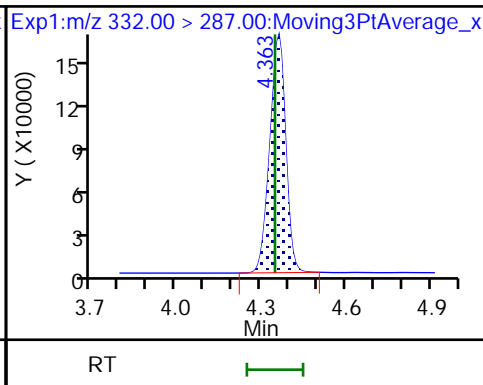
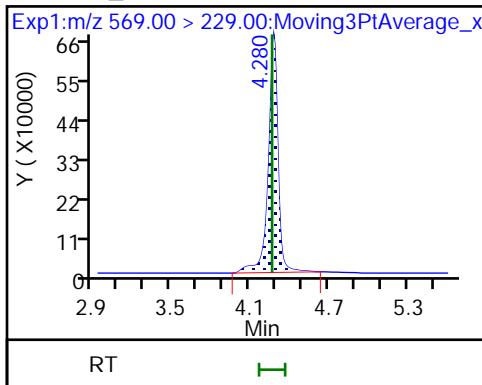
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

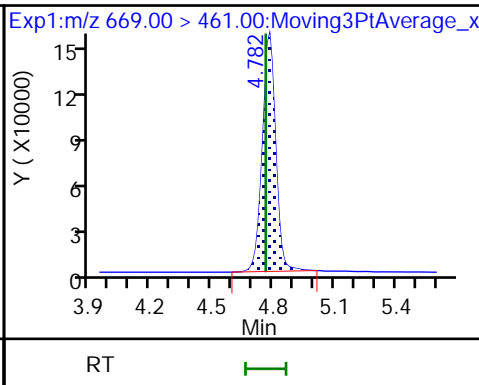
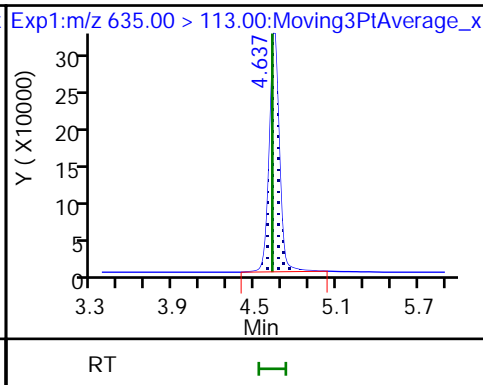
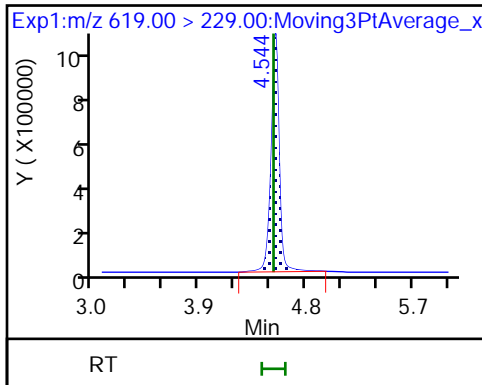
5 BFS_A4B



7 BFS_AB3

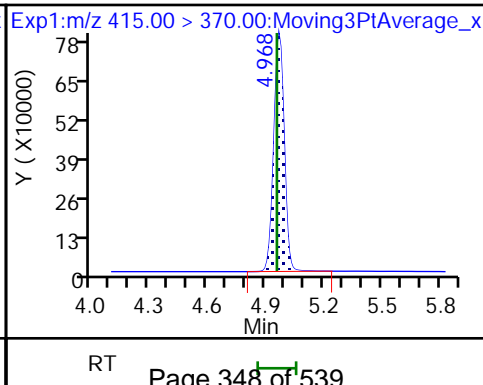
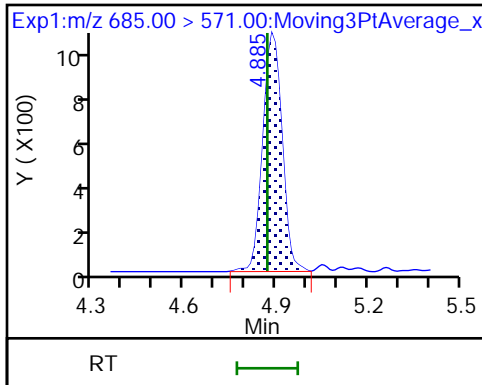
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

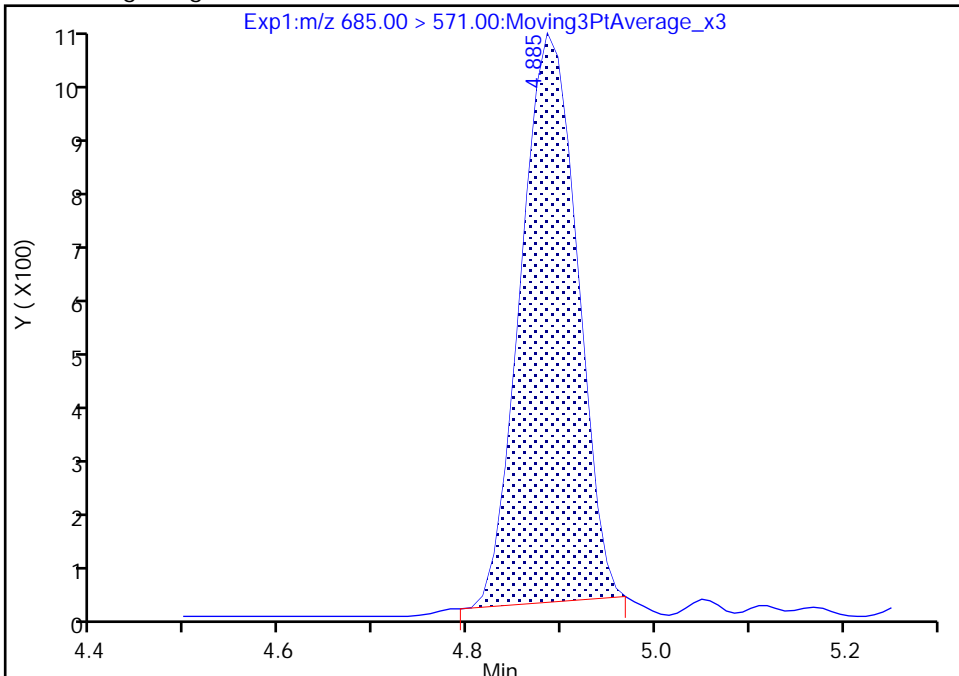
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Injection Date: 15-Aug-2022 10:03:29 Instrument ID: 30733
Lims ID: CCV 3_CAL6
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 7 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

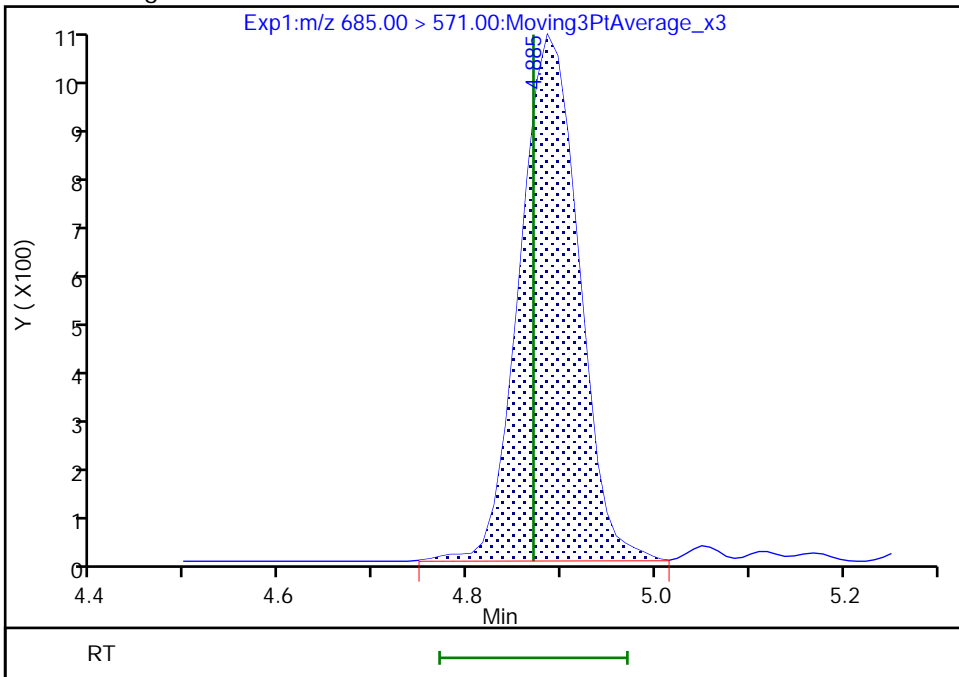
RT: 4.88
Area: 4421
Amount: 0.523603
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 4752
Amount: 0.562874
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 11:30:10
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279976/1-A

Matrix: Water Lab File ID: 22AUG05BFS-30.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 250 (mL) Date Analyzed: 08/09/2022 08:51

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283897 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-30.d
 Lims ID: MB 410-279976/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Aug-2022 08:51:55 ALS Bottle#: 37 Worklist Smp#: 30
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279976/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0063651-030
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 10:31:46 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 12:15:54
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 6 13C3 HFPO-DA	332.00 > 287.00	4.380	4.388	-0.008	0.878	740746	4.71	94.3	355
* 11 13C2 PFOA	415.00 > 370.00	4.988	4.997	-0.009		3666744	5.00		363

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00374 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63651.b\22AUG05BFS-30.d

Injection Date: 09-Aug-2022 08:51:55

Instrument ID: 30733

Lims ID: MB 410-279976/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 37

Worklist Smp#: 30

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

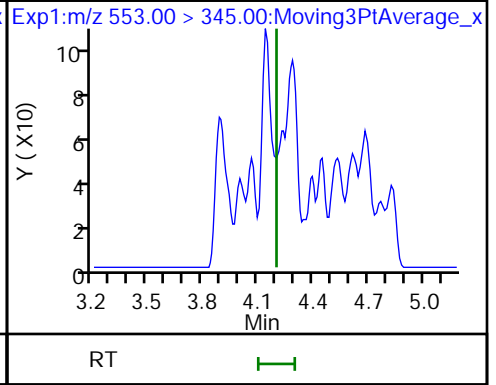
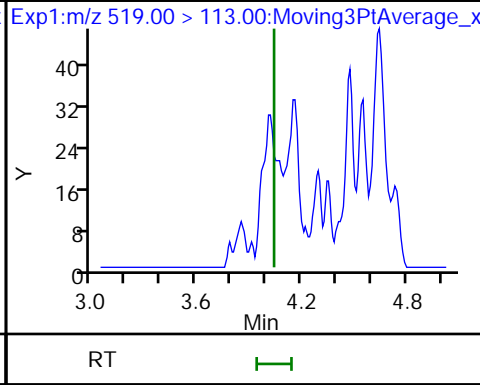
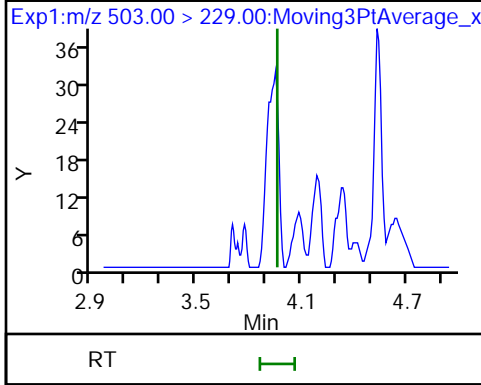
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

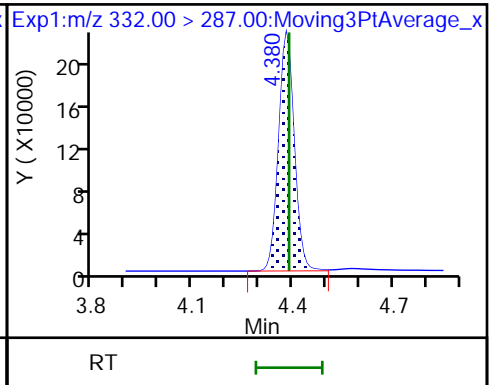
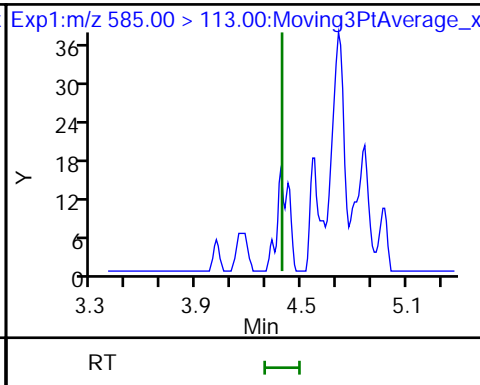
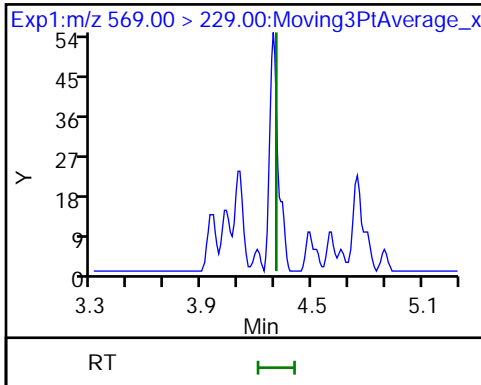
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

5 BFS_A4B (ND)

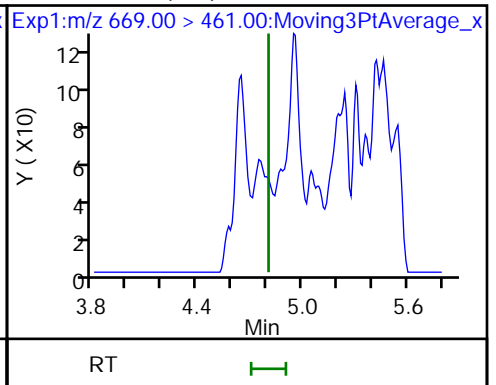
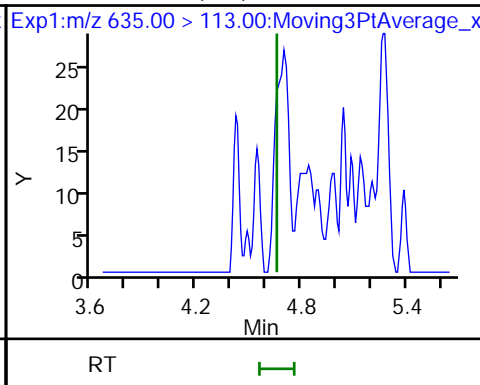
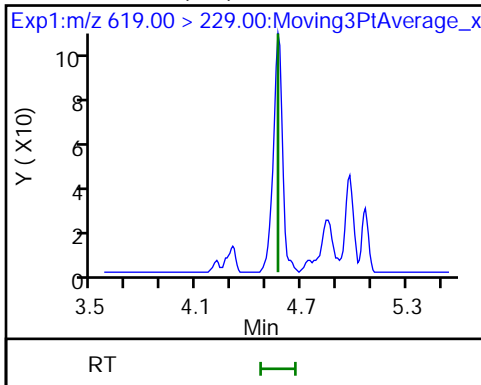
D 6 13C3 HFPO-DA



7 BFS_AB3 (ND)

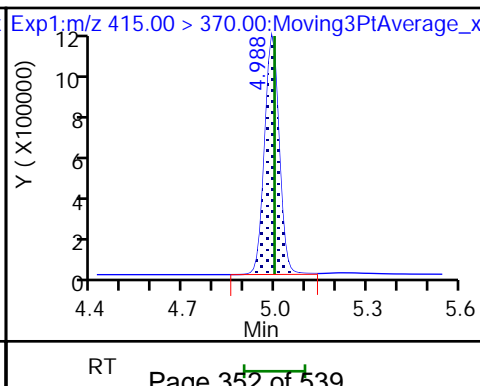
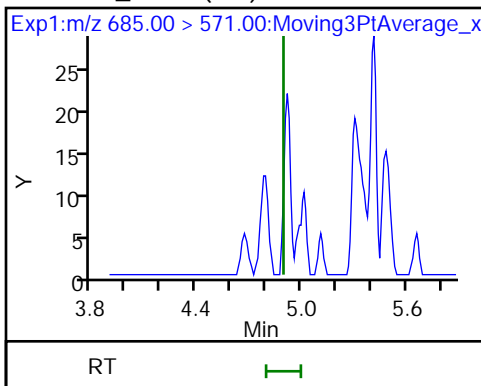
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-285075/1-A

Matrix: Water Lab File ID: 22AUG13BFS-17.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 05:57

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		1.4	0.40
STL02887	BFS_A2B3	ND		1.1	0.40
STL02880	BFS_A3B	ND		0.60	0.20
STL02885	BFS_A3B2	ND		0.80	0.20
STL02883	BFS_A4B	ND		0.40	0.20
STL02879	BFS_AB2	ND		0.60	0.080
STL02884	BFS_AB3	ND		1.5	0.40
STL02881	BFS_B3	ND		0.70	0.30
STL02886	BFS_B4	ND		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-17.d
 Lims ID: MB 410-285075/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 14-Aug-2022 05:57:42 ALS Bottle#: 13 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-285075/1-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:37:25
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.344	4.346	-0.002	0.876	615998	4.98	99.7	995
* 11 13C2 PFOA	415.00 > 370.00	4.956	4.958	-0.002		3080517	5.00		951

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-17.d

Injection Date: 14-Aug-2022 05:57:42 Instrument ID: 30733

Lims ID: MB 410-285075/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 13

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

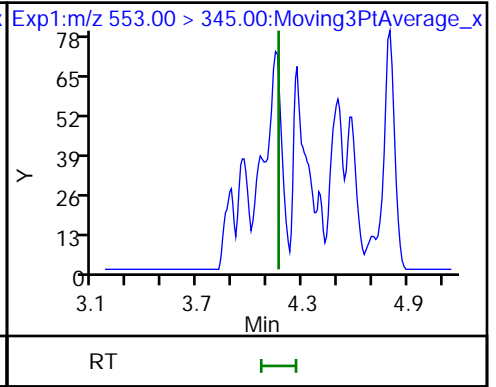
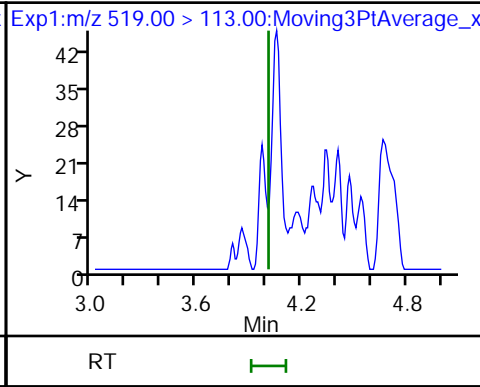
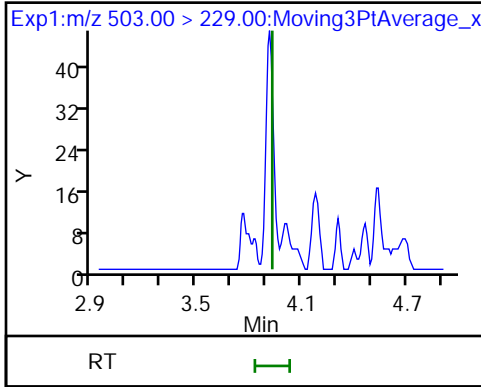
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

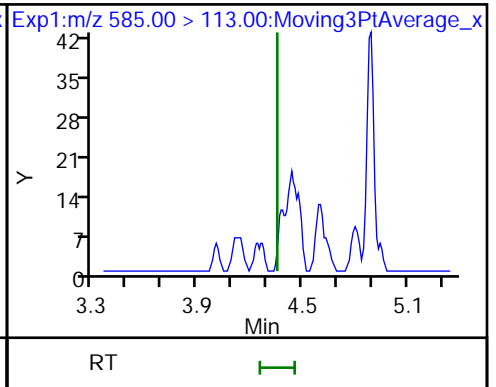
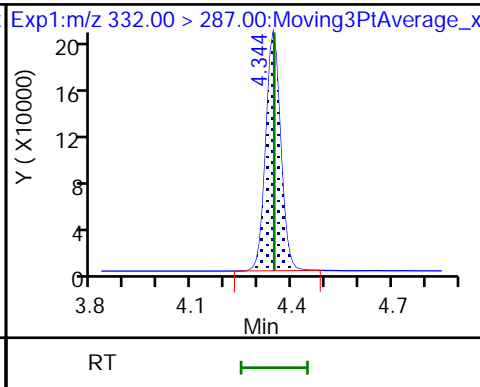
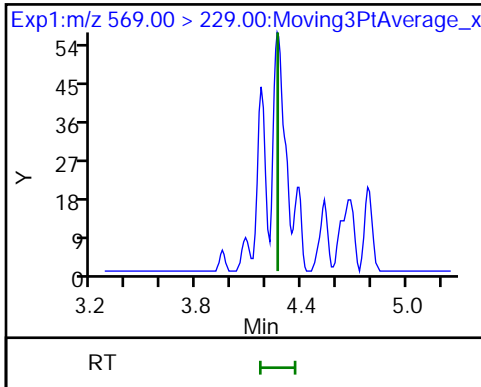
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

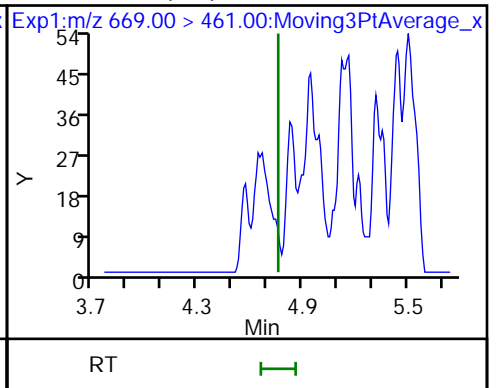
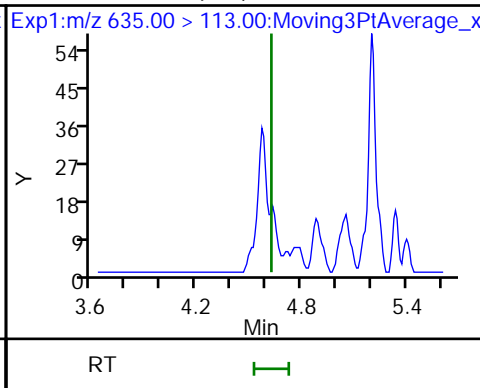
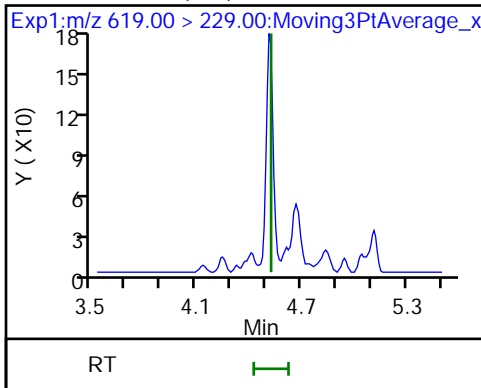
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

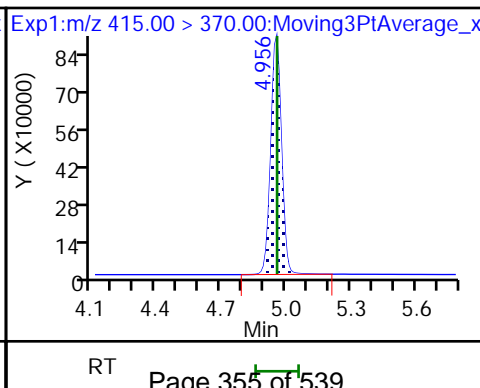
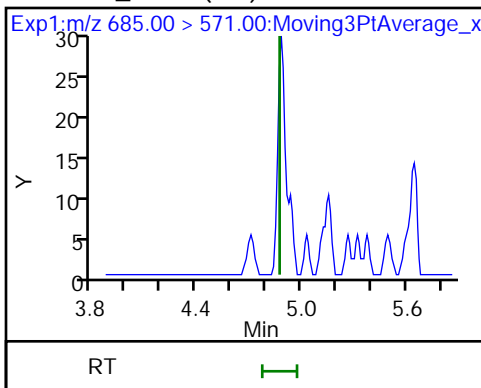
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-283892/11

Matrix: Water Lab File ID: 22AUG08BFSCAL-13.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/09/2022 02:09

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283892 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	ND		0.025	0.013
STL02881	BFS_B3	ND		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-13.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 09-Aug-2022 02:09:02 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0063648-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 09-Aug-2022 08:11:52 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 07:44:35
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.390	4.388	0.002	0.878	733197	4.94	98.7	298
* 11 13C2 PFOA	415.00 > 370.00	4.999	4.997	0.003		3466306	5.00		341

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromf\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-13.d

Injection Date: 09-Aug-2022 02:09:02

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

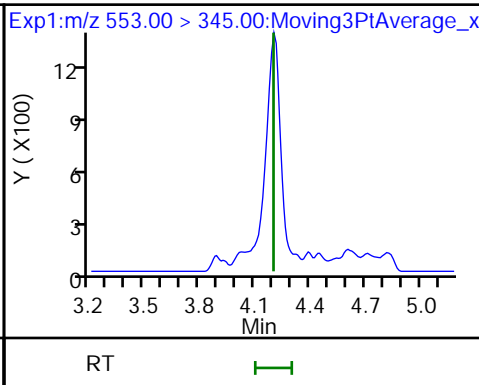
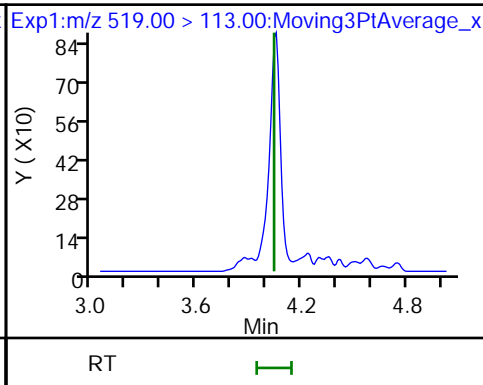
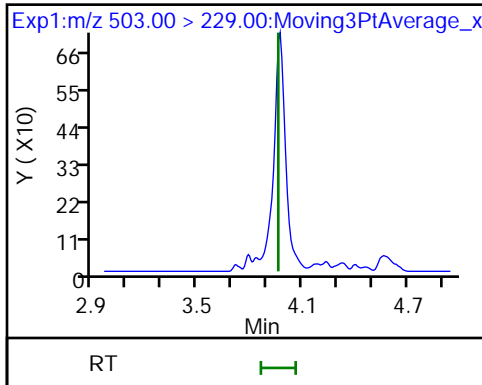
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

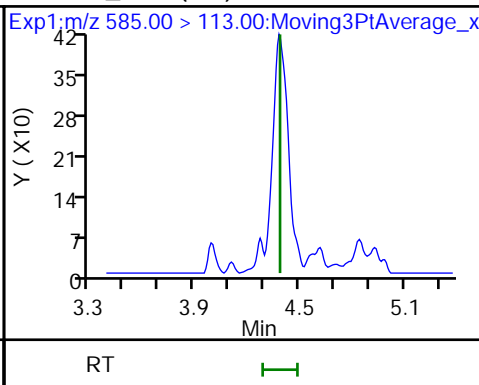
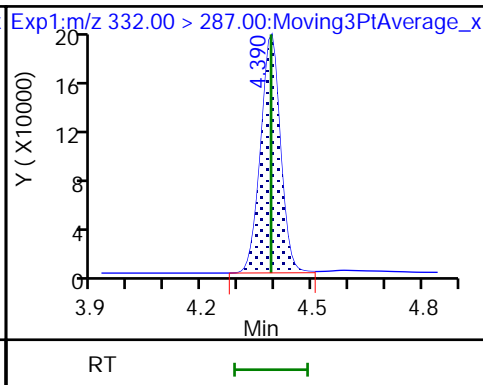
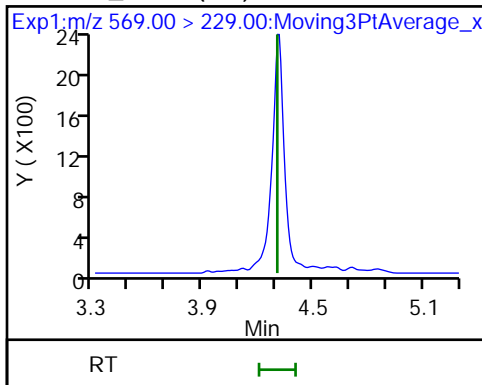
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

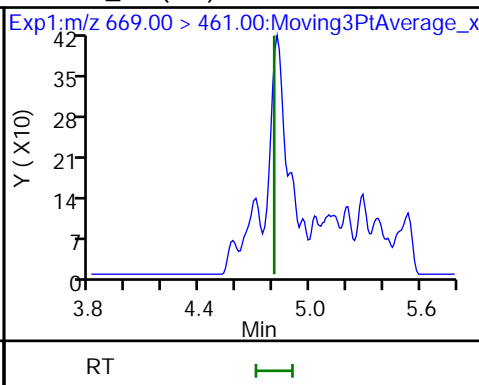
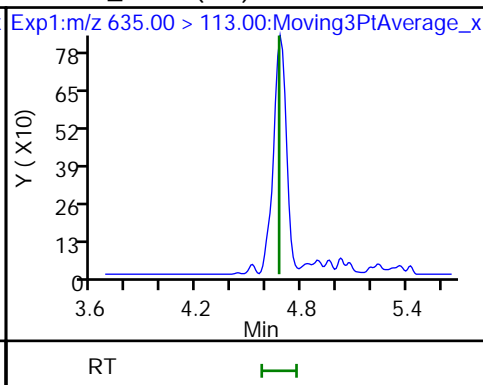
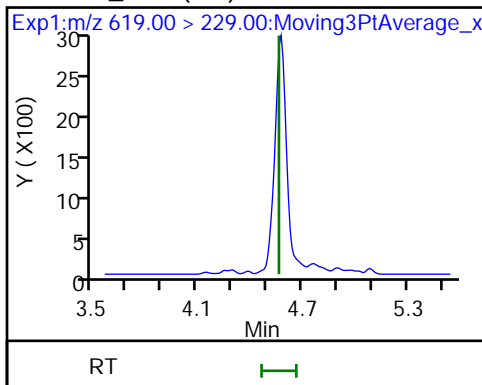
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

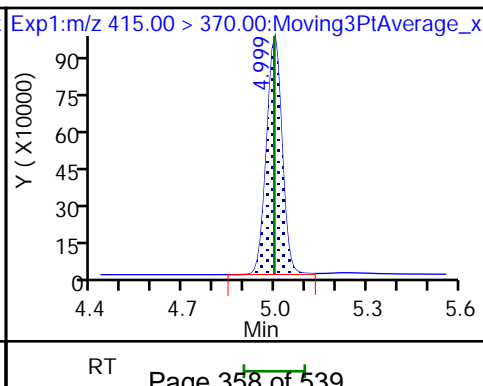
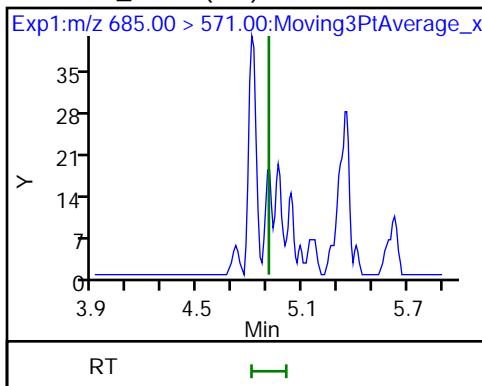
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-285706/11

Matrix: Water Lab File ID: 22AUG13BFS-11.d

Analysis Method: BFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/14/2022 04:42

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285706 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	ND		0.025	0.013
STL02887	BFS_A2B3	ND		0.025	0.013
STL02880	BFS_A3B	ND		0.025	0.013
STL02885	BFS_A3B2	ND		0.025	0.013
STL02883	BFS_A4B	ND		0.025	0.013
STL02879	BFS_AB2	ND		0.025	0.013
STL02884	BFS_AB3	ND		0.025	0.013
STL02881	BFS_B3	ND		0.025	0.013
STL02886	BFS_B4	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 14-Aug-2022 04:42:07 ALS Bottle#: 1 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 11 Rack: 1 410-0064075-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:30:44 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:26:54
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 6 13C3 HFPO-DA	332.00 > 287.00	4.341	4.346	-0.005	0.877	699359	4.88	97.7	886
* 11 13C2 PFOA	415.00 > 370.00	4.952	4.958	-0.006		3568767	5.00		950

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-11.d

Injection Date: 14-Aug-2022 04:42:07

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

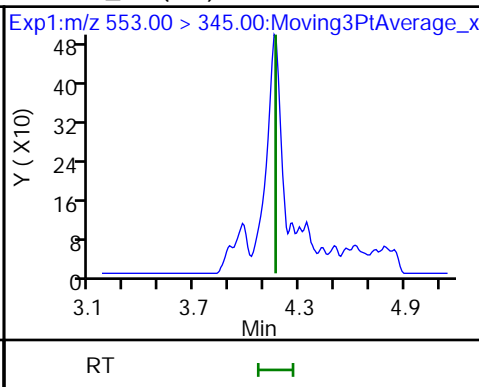
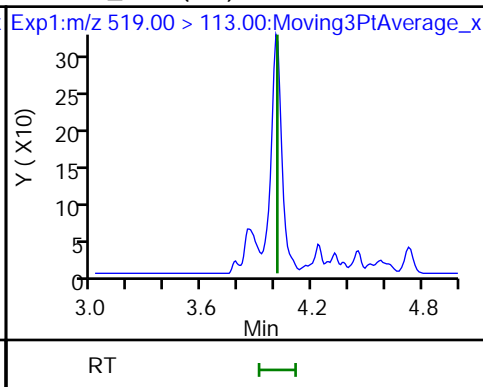
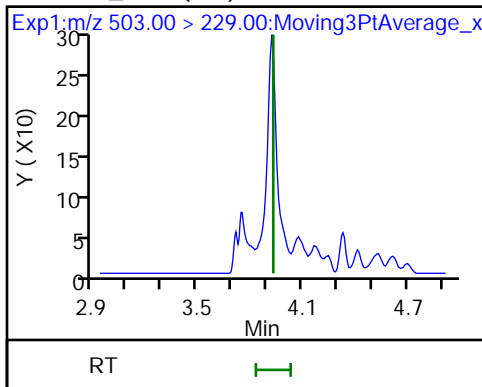
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2 (ND)

2 BFS_A3B (ND)

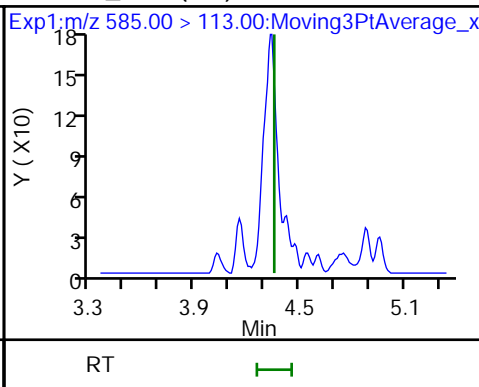
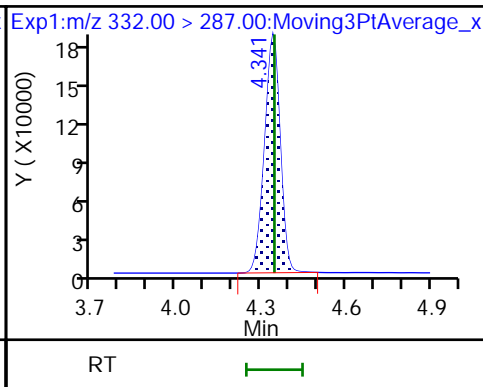
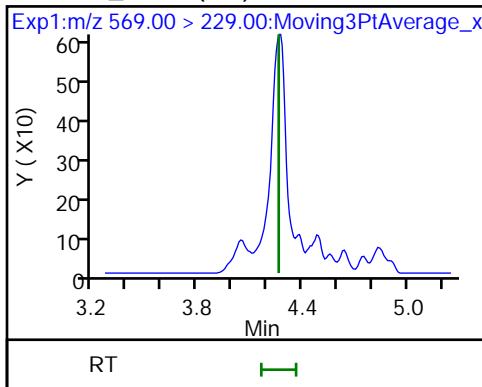
3 BFS_B3 (ND)



4 BFS_A2B2 (ND)

D 6 13C3 HFPO-DA

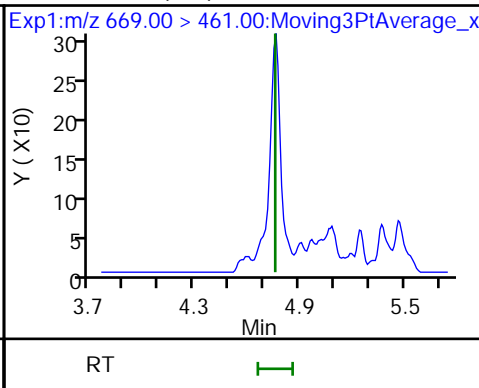
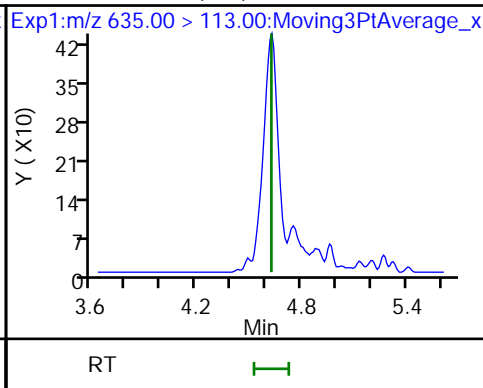
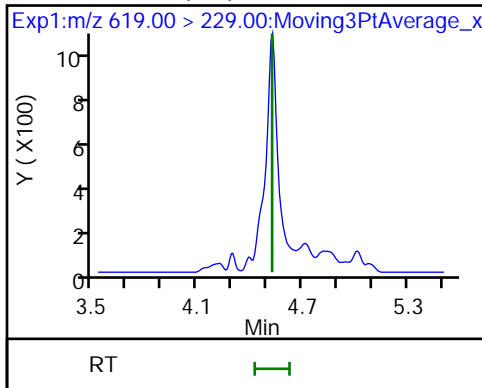
5 BFS_A4B (ND)



7 BFS_AB3 (ND)

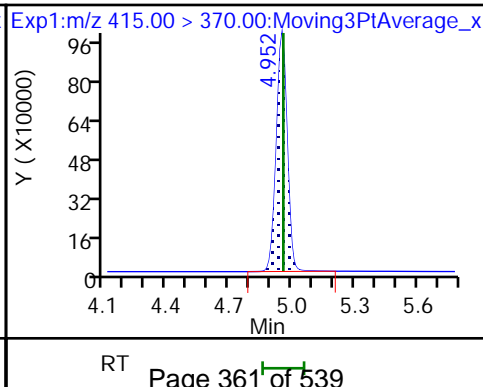
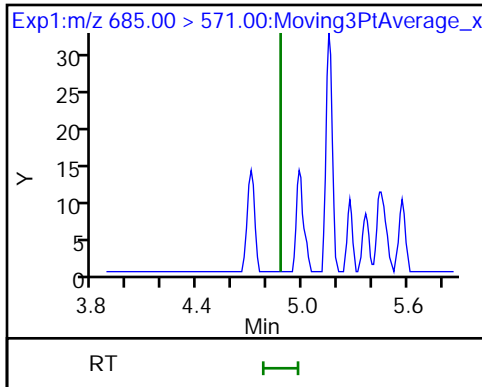
8 BFS_A3B2 (ND)

9 BFS_B4 (ND)



10 BFS_A2B3 (ND)

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279976/2-A

Matrix: Water Lab File ID: 22AUG09BFS-05.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 250 (mL) Date Analyzed: 08/10/2022 03:17

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	284		1.4	0.40
STL02887	BFS_A2B3	5.20		1.1	0.40
STL02880	BFS_A3B	42.3		0.60	0.20
STL02885	BFS_A3B2	53.1		0.80	0.20
STL02883	BFS_A4B	21.6		0.40	0.20
STL02879	BFS_AB2	45.2		0.60	0.080
STL02884	BFS_AB3	301		1.5	0.40
STL02881	BFS_B3	129		0.70	0.30
STL02886	BFS_B4	72.5		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-05.d
 Lims ID: LCS 410-279976/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 10-Aug-2022 03:17:06 ALS Bottle#: 14 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279976/2-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:31:26

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.960	-0.008	0.902	2182933	11.3	141	8474
2 BFS_A3B	519.00 > 113.00	4.034	4.042	-0.008	0.921	2313389	10.6	118	236
3 BFS_B3	553.00 > 345.00	4.190	4.200	-0.010	0.956	3948882	32.2	113	224
4 BFS_A2B2	569.00 > 229.00	4.299	4.304	-0.005	0.981	5835073	71.1	114	233
D 6 13C3 HFPO-DA	332.00 > 287.00	4.382	4.388	-0.006	0.879	724207	4.75	94.9	330
5 BFS_A4B	585.00 > 113.00	4.382	4.388	-0.006	1.000	1523491	5.41	109	314
7 BFS_AB3	619.00 > 229.00	4.557	4.564	-0.007	1.040	8191907	75.4	113	350
8 BFS_A3B2	635.00 > 113.00	4.660	4.657	0.003	1.063	2705469	13.3	113	272
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.094	1198149	18.1	117	297
10 BFS_A2B3	685.00 > 571.00	4.907	4.907	0.0	1.120	8038	1.30	110	158 M
* 11 13C2 PFOA	415.00 > 370.00	4.988	4.997	-0.009		3561531	5.00		337 M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-05.d

Injection Date: 10-Aug-2022 03:17:06

Instrument ID: 30733

Lims ID: LCS 410-279976/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

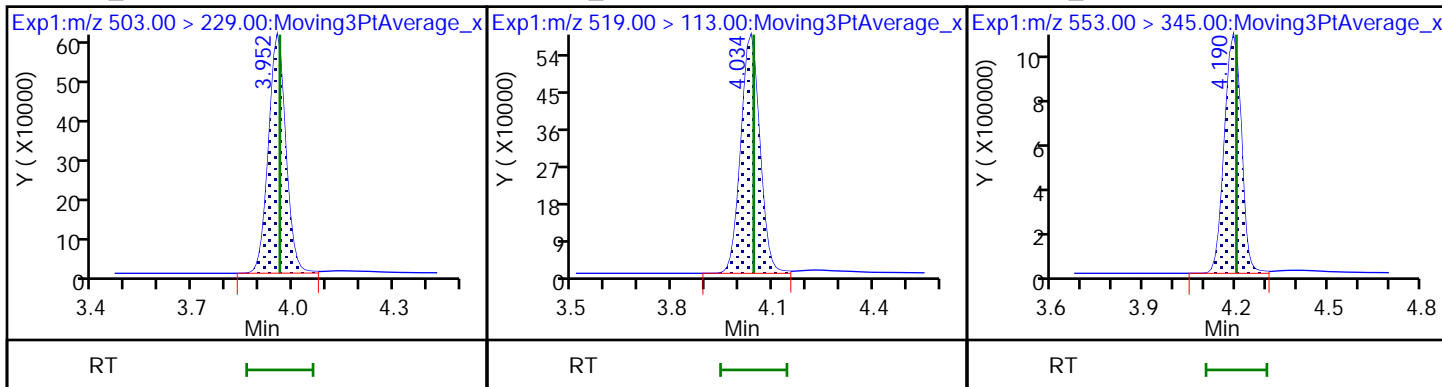
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

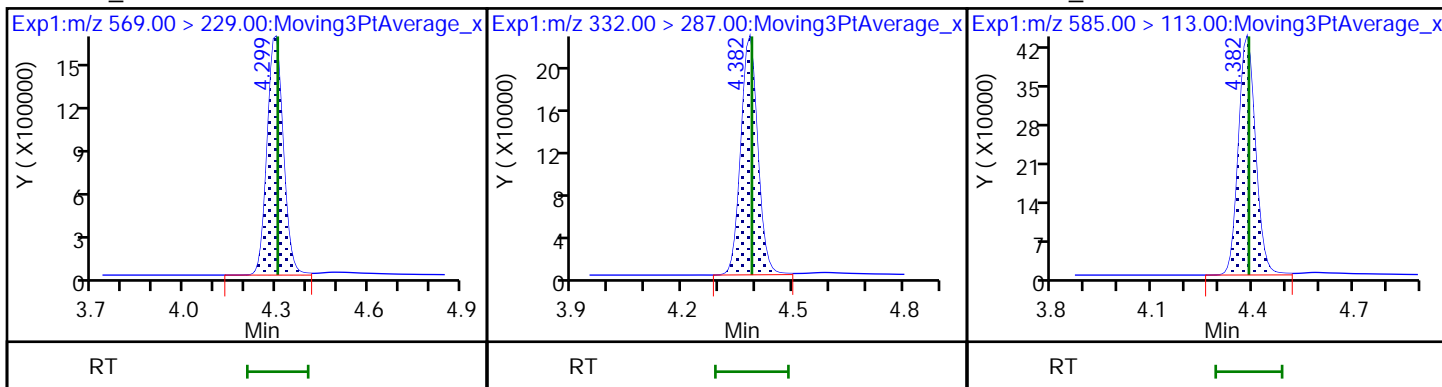
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

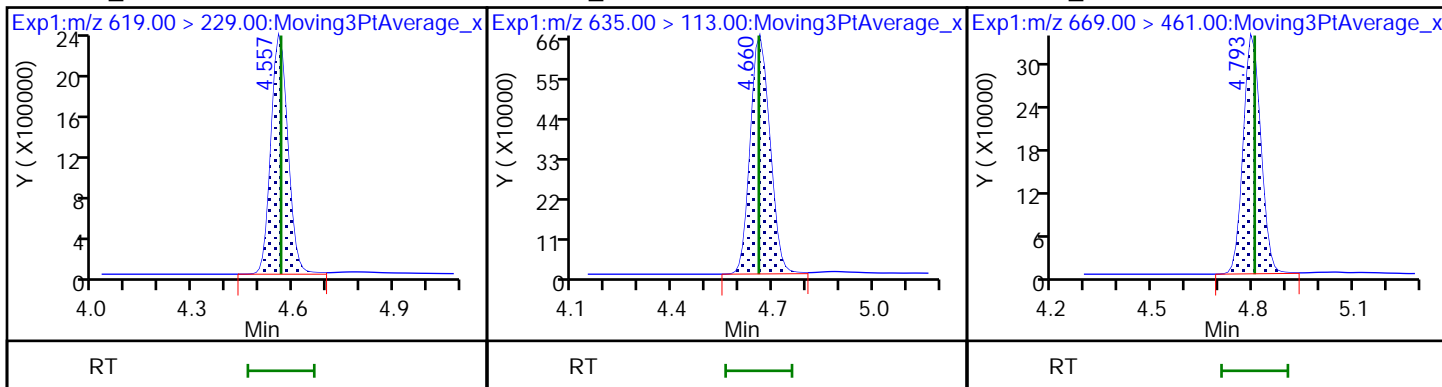
5 BFS_A4B



7 BFS_AB3

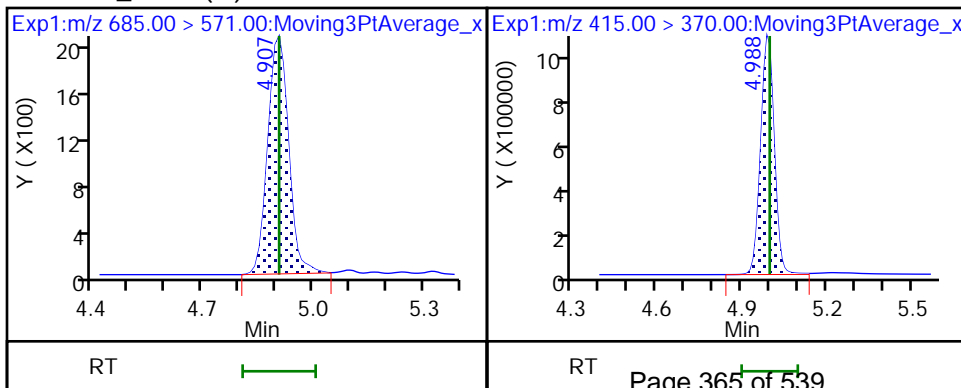
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA



Eurofins Lancaster Laboratories Environment Testing, LLC

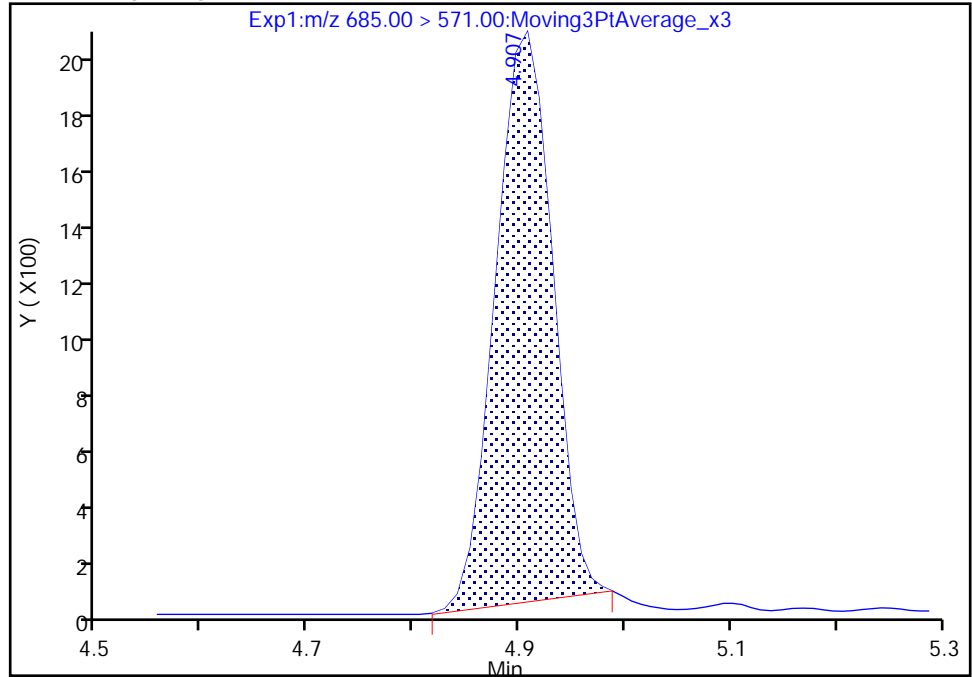
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Injection Date: 10-Aug-2022 03:17:06 Instrument ID: 30733
Lims ID: LCS 410-279976/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

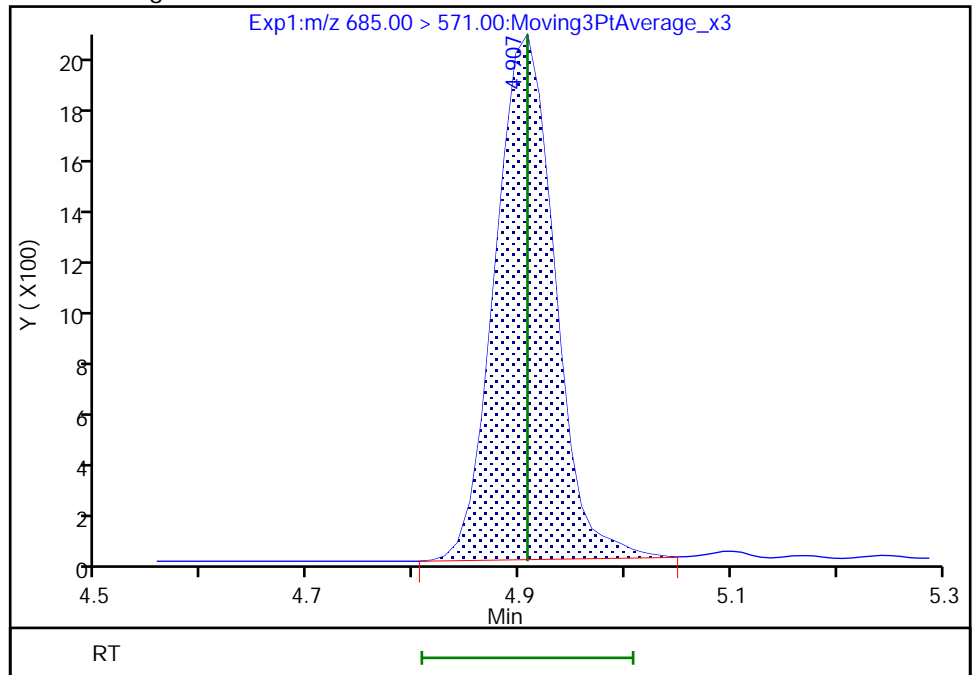
RT: 4.91
Area: 7578
Amount: 1.225575
Amount Units: ng/ml

Processing Integration Results



RT: 4.91
Area: 8038
Amount: 1.299935
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 10-Aug-2022 12:31:23
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-285075/2-A

Matrix: Water Lab File ID: 22AUG13BFS-18.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 06:10

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	246		1.4	0.40
STL02887	BFS_A2B3	4.16		1.1	0.40
STL02880	BFS_A3B	39.5		0.60	0.20
STL02885	BFS_A3B2	44.0		0.80	0.20
STL02883	BFS_A4B	20.1		0.40	0.20
STL02879	BFS_AB2	37.7		0.60	0.080
STL02884	BFS_AB3	246		1.5	0.40
STL02881	BFS_B3	125		0.70	0.30
STL02886	BFS_B4	60.1		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d
 Lims ID: LCS 410-285075/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 14-Aug-2022 06:10:20 ALS Bottle#: 14 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-285075/2-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:37:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.923	3.932	-0.009	0.902	2207538	9.43	118	16586
2 BFS_A3B	519.00 > 113.00	4.002	4.010	-0.008	0.920	2588914	9.86	110	764
3 BFS_B3	553.00 > 345.00	4.153	4.163	-0.010	0.955	4554378	31.3	110	745
4 BFS_A2B2	569.00 > 229.00	4.265	4.263	0.002	0.981	6407637	61.4	98.3	1018
D 6 13C3 HFPO-DA	332.00 > 287.00	4.348	4.346	0.002	0.877	677430	5.29	106	923
5 BFS_A4B	585.00 > 113.00	4.348	4.355	-0.007	1.000	1624795	5.02	101	1165
7 BFS_AB3	619.00 > 229.00	4.527	4.525	0.002	1.041	8795349	61.4	91.8	1277
8 BFS_A3B2	635.00 > 113.00	4.628	4.627	0.001	1.064	3037237	11.0	93.3	789
9 BFS_B4	669.00 > 461.00	4.761	4.760	0.0	1.095	1364024	15.0	96.6	811
10 BFS_A2B3	685.00 > 571.00	4.874	4.874	0.0	1.121	9449	1.04	88.2	237 M
* 11 13C2 PFOA	415.00 > 370.00	4.958	4.958	0.0		3188725	5.00	961	a

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d

Injection Date: 14-Aug-2022 06:10:20

Instrument ID: 30733

Lims ID: LCS 410-285075/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 14

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

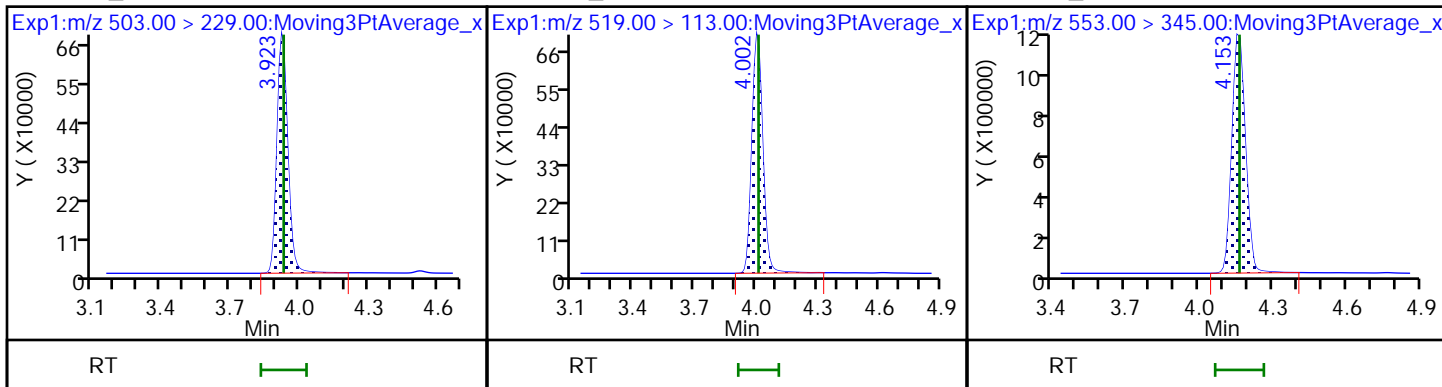
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

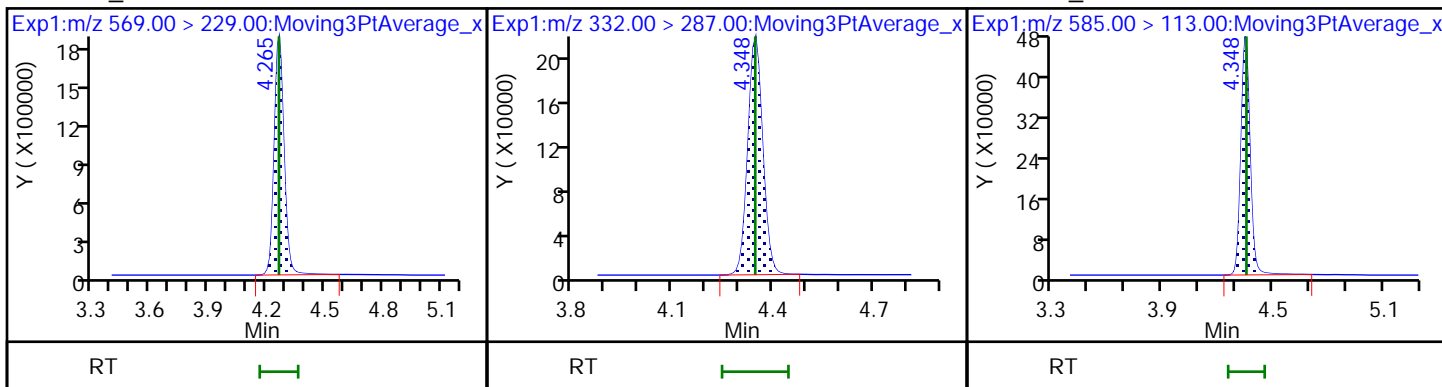
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

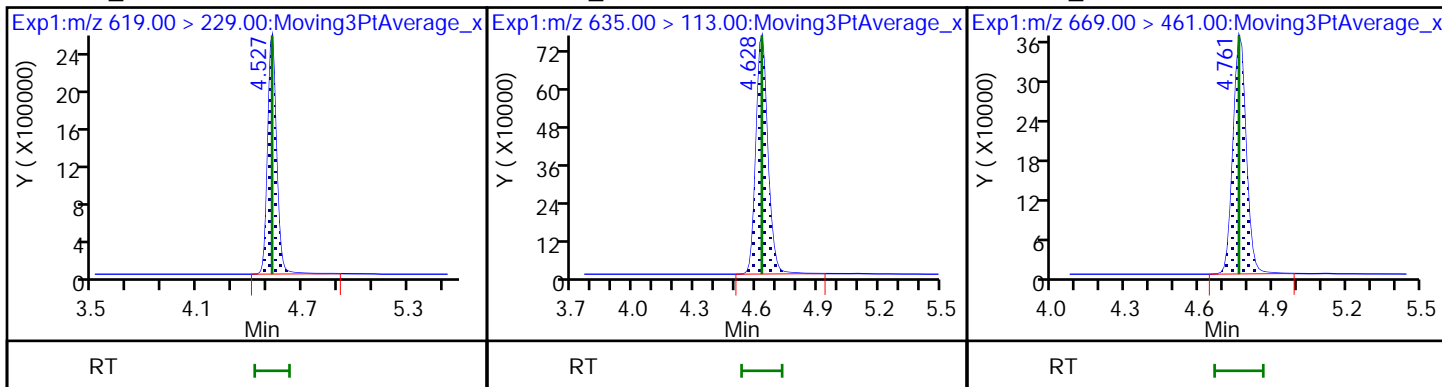
5 BFS_A4B



7 BFS_AB3

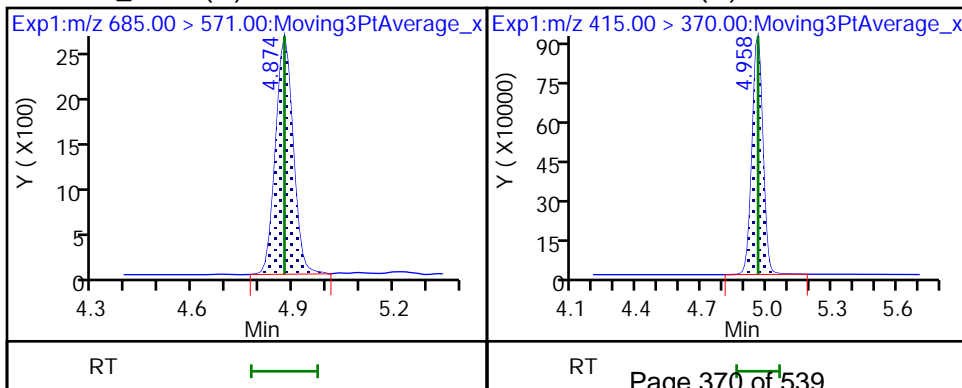
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

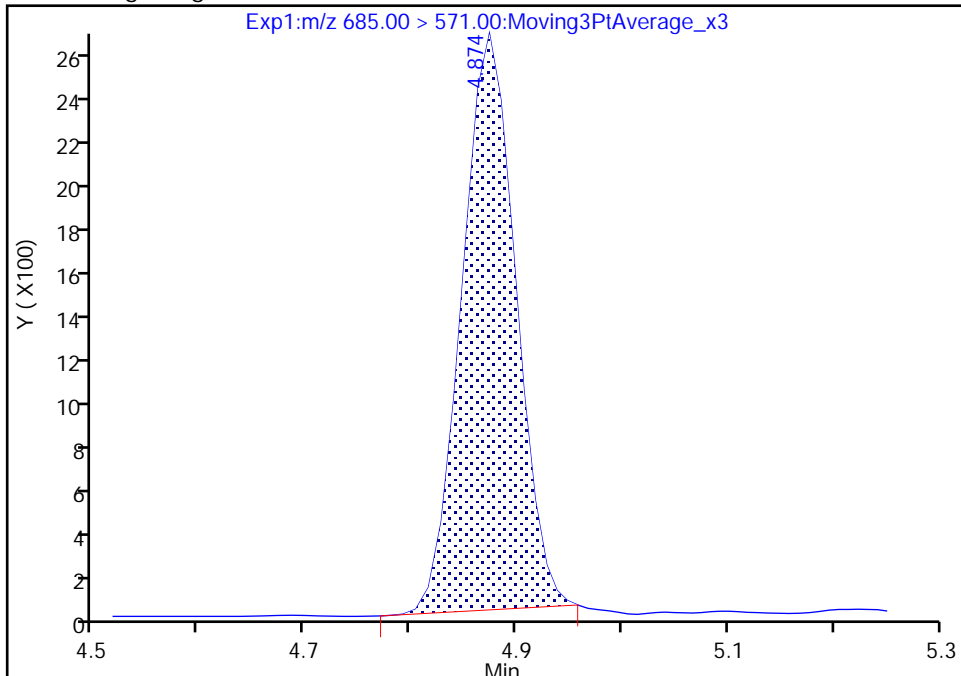
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d
Injection Date: 14-Aug-2022 06:10:20 Instrument ID: 30733
Lims ID: LCS 410-285075/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

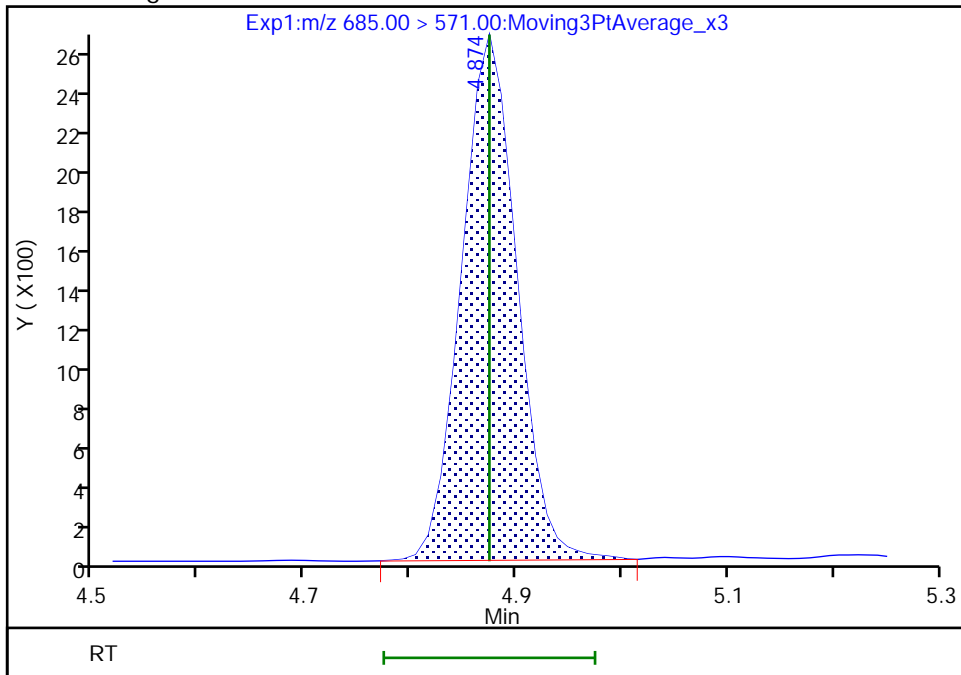
RT: 4.87
Area: 9139
Amount: 1.005464
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 9449
Amount: 1.039601
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:37:41
Audit Action: Manually Integrated

Audit Reason: Baseline
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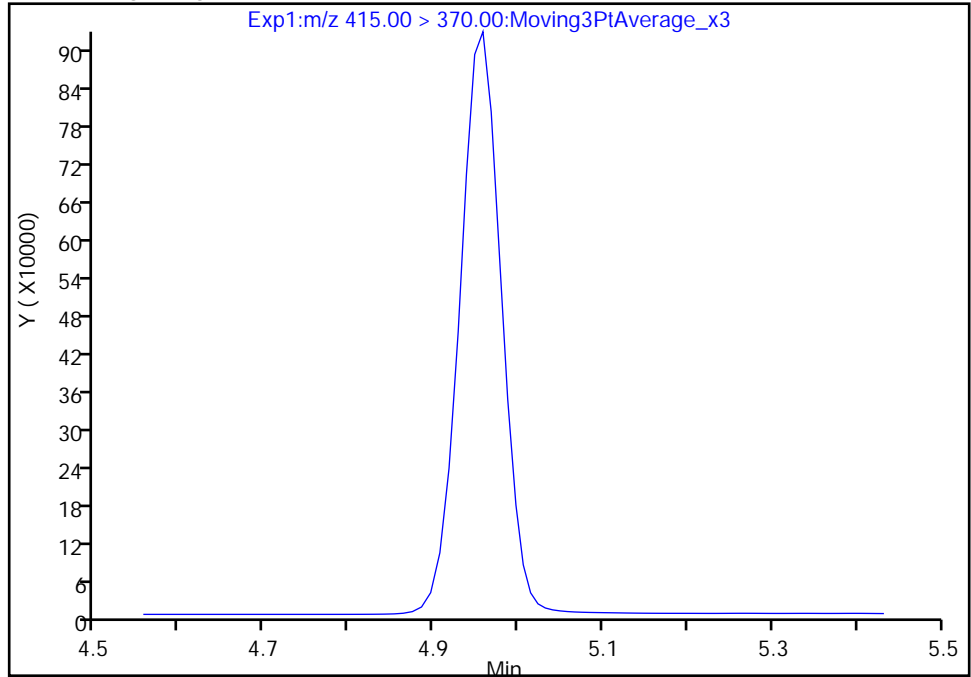
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-18.d
Injection Date: 14-Aug-2022 06:10:20 Instrument ID: 30733
Lims ID: LCS 410-285075/2-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 14 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

* 11 13C2 PFOA, CAS: STL00623
Signal: 1

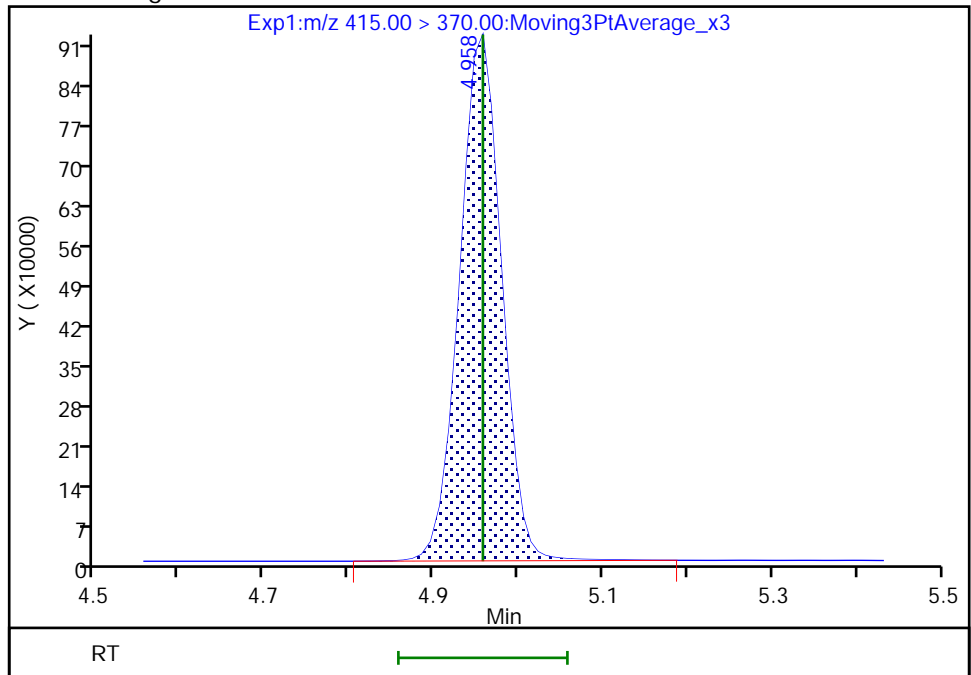
Not Detected
Expected RT: 4.96

Processing Integration Results



RT: 4.96
Area: 3188725
Amount: 5.000000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:37:30
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-279976/3-A

Matrix: Water Lab File ID: 22AUG09BFS-06.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/27/2022 10:06

Sample wt/vol: 250 (mL) Date Analyzed: 08/10/2022 03:29

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 284260 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	294		1.4	0.40
STL02887	BFS_A2B3	5.97		1.1	0.40
STL02880	BFS_A3B	44.8		0.60	0.20
STL02885	BFS_A3B2	57.1		0.80	0.20
STL02883	BFS_A4B	22.5		0.40	0.20
STL02879	BFS_AB2	48.5		0.60	0.080
STL02884	BFS_AB3	324		1.5	0.40
STL02881	BFS_B3	134		0.70	0.30
STL02886	BFS_B4	78.6		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	90		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-06.d
 Lims ID: LCSD 410-279976/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 10-Aug-2022 03:29:43 ALS Bottle#: 15 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 410-279976/3-A RA
 Misc. Info.: Plate: 11 Rack: 1 410-0063745-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 10-Aug-2022 12:35:18 Calib Date: 09-Aug-2022 01:56:25
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220808-63648.b\22AUG08BFSCAL-12.d
 Column 1 : Det: EXP1
 Process Host: CTX1655

First Level Reviewer: JVK6 Date: 10-Aug-2022 12:31:33

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.952	3.960	-0.008	0.902	2278675	12.1	151	9258
2 BFS_A3B	519.00 > 113.00	4.033	4.042	-0.009	0.921	2380907	11.2	125	264
3 BFS_B3	553.00 > 345.00	4.190	4.200	-0.010	0.956	3984545	33.5	117	218
4 BFS_A2B2	569.00 > 229.00	4.298	4.304	-0.006	0.981	5866963	73.6	118	235
D 6 13C3 HFPO-DA	332.00 > 287.00	4.381	4.388	-0.007	0.879	702982	4.50	90.0	331
5 BFS_A4B	585.00 > 113.00	4.381	4.388	-0.007	1.000	1537333	5.62	114	286
7 BFS_AB3	619.00 > 229.00	4.556	4.564	-0.008	1.040	8527152	80.9	121	339
8 BFS_A3B2	635.00 > 113.00	4.660	4.657	0.003	1.063	2822624	14.3	121	280
9 BFS_B4	669.00 > 461.00	4.793	4.805	-0.012	1.094	1260581	19.7	126	299
10 BFS_A2B3	685.00 > 571.00	4.907	4.907	0.0	1.120	8954	1.49	127	155
* 11 13C2 PFOA	415.00 > 370.00	4.987	4.997	-0.010		3646408	5.00		352

QC Flag Legend
 Processing Flags

Reagents:

PFC_IS_MOD_00374

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220809-63745.b\22AUG09BFS-06.d

Injection Date: 10-Aug-2022 03:29:43

Instrument ID: 30733

Lims ID: LCSD 410-279976/3-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 15

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

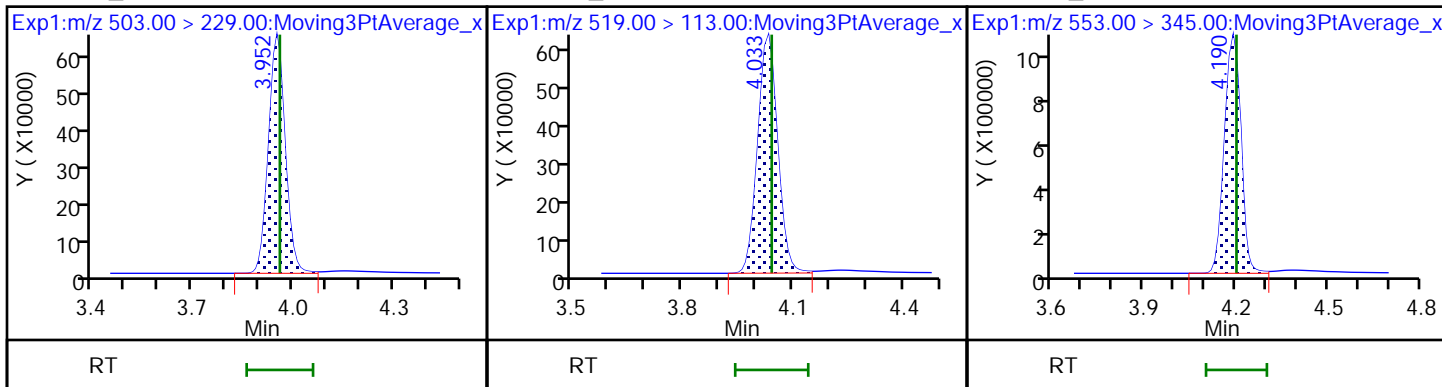
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

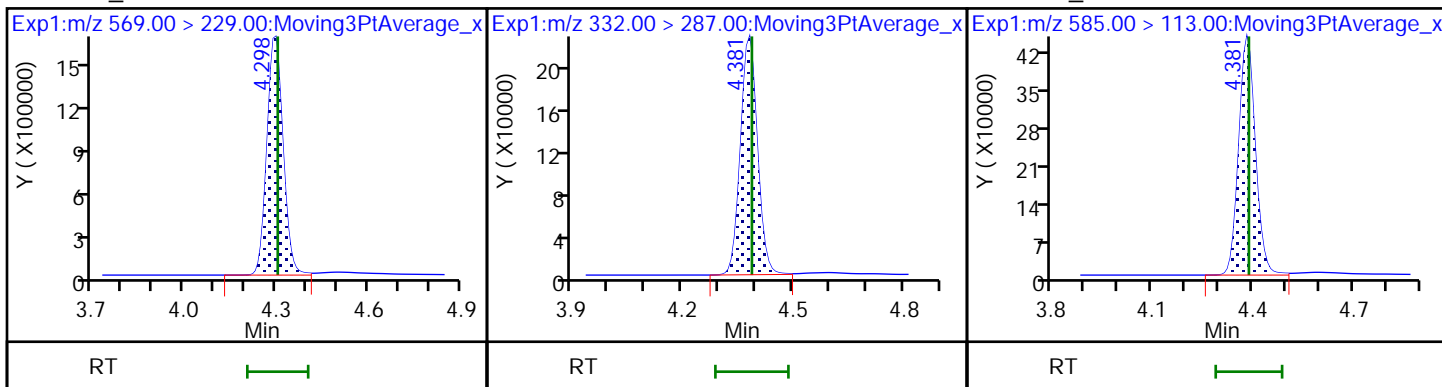
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

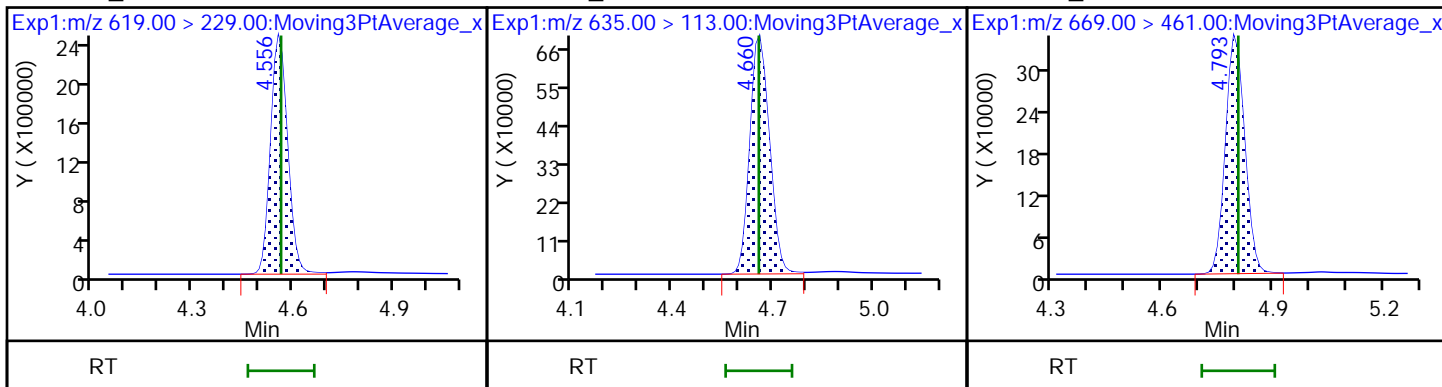
5 BFS_A4B



7 BFS_AB3

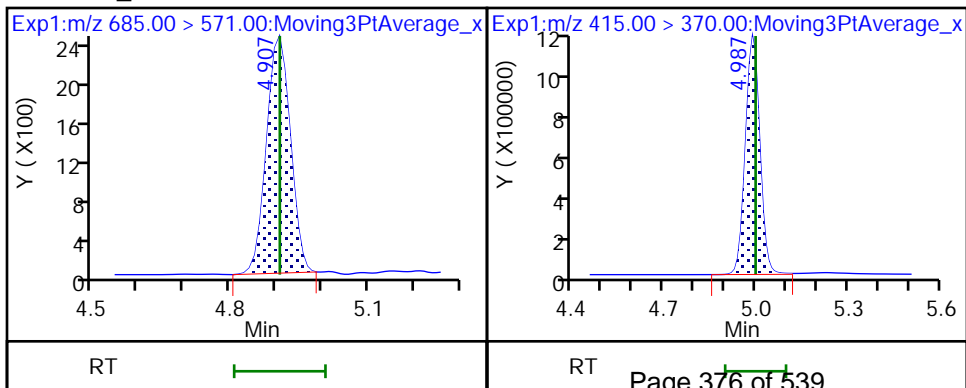
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3

* 11 13C2 PFOA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-285075/3-A

Matrix: Water Lab File ID: 22AUG13BFS-19.d

Analysis Method: BFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 10:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 06:22

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285708 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02882	BFS_A2B2	267		1.4	0.40
STL02887	BFS_A2B3	4.48		1.1	0.40
STL02880	BFS_A3B	42.7		0.60	0.20
STL02885	BFS_A3B2	47.8		0.80	0.20
STL02883	BFS_A4B	21.5		0.40	0.20
STL02879	BFS_AB2	41.1		0.60	0.080
STL02884	BFS_AB3	272		1.5	0.40
STL02881	BFS_B3	131		0.70	0.30
STL02886	BFS_B4	63.8		1.1	0.40

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d
 Lims ID: LCSD 410-285075/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 14-Aug-2022 06:22:53 ALS Bottle#: 15 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 410-285075/3-A
 Misc. Info.: Plate: 11 Rack: 1 410-0064076-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\BFS_IDA_30733.m
 Limit Group: LC - BFS_IDA
 Last Update: 15-Aug-2022 07:45:04 Calib Date: 14-Aug-2022 04:29:29
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64075.b\22AUG13BFS-10.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:38:07
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
1 BFS_AB2	503.00 > 229.00	3.922	3.932	-0.010	0.902	2205925	10.3	128	14938
2 BFS_A3B	519.00 > 113.00	3.999	4.010	-0.011	0.920	2569606	10.7	119	690
3 BFS_B3	553.00 > 345.00	4.151	4.163	-0.012	0.955	4363708	32.7	115	700
4 BFS_A2B2	569.00 > 229.00	4.263	4.263	0.0	0.981	6368197	66.6	107	97174
D 6 13C3 HFPO-DA	332.00 > 287.00	4.346	4.346	0.0	0.877	620956	4.87	97.5	944
5 BFS_A4B	585.00 > 113.00	4.346	4.355	-0.009	1.000	1595004	5.38	109	818
7 BFS_AB3	619.00 > 229.00	4.525	4.525	0.0	1.041	8911609	68.1	102	1269
8 BFS_A3B2	635.00 > 113.00	4.626	4.627	-0.001	1.064	3020544	11.9	101	758
9 BFS_B4	669.00 > 461.00	4.760	4.760	0.0	1.095	1325972	16.0	103	802
10 BFS_A2B3	685.00 > 571.00	4.874	4.874	0.0	1.121	9327	1.12	95.0	245 M
* 11 13C2 PFOA	415.00 > 370.00	4.957	4.958	-0.001		3174670	5.00	858	a

QC Flag Legend
 Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFC_IS_MOD_00377

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d

Injection Date: 14-Aug-2022 06:22:53

Instrument ID: 30733

Lims ID: LCSD 410-285075/3-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 15

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

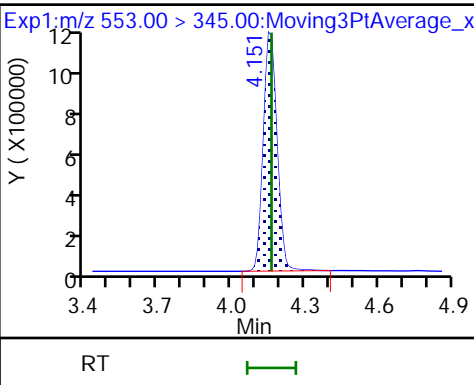
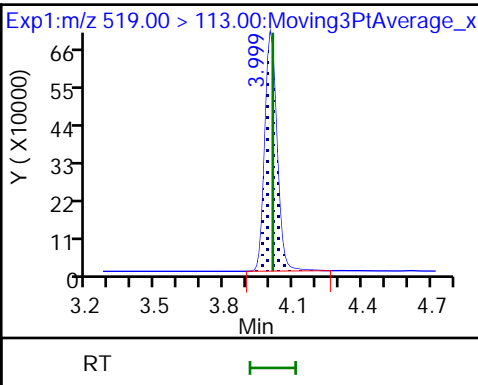
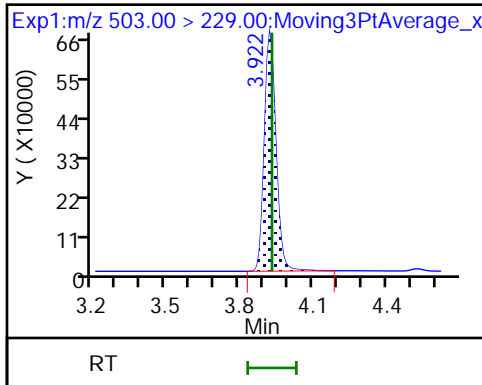
Method: BFS_IDA_30733

Limit Group: LC - BFS_IDA

1 BFS_AB2

2 BFS_A3B

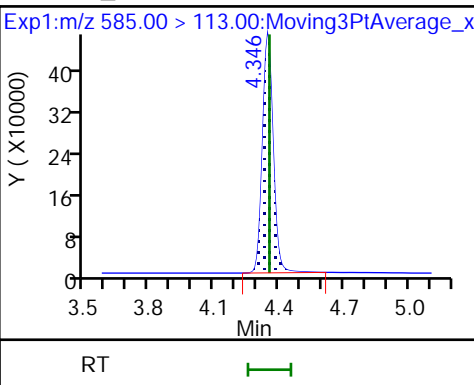
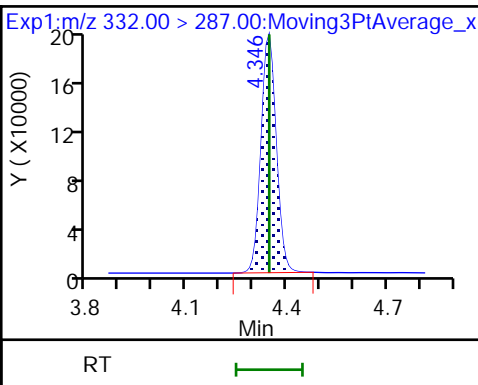
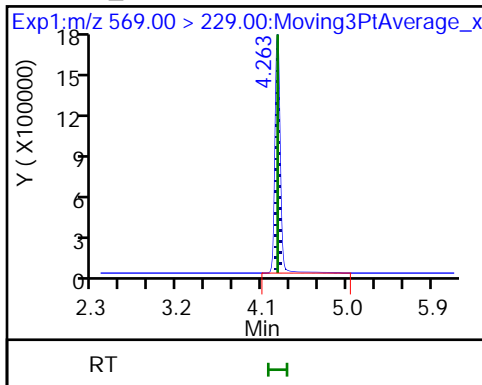
3 BFS_B3



4 BFS_A2B2

D 6 13C3 HFPO-DA

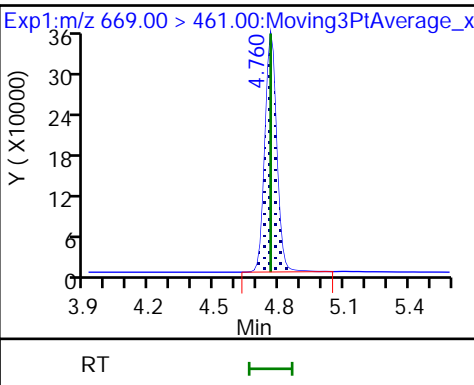
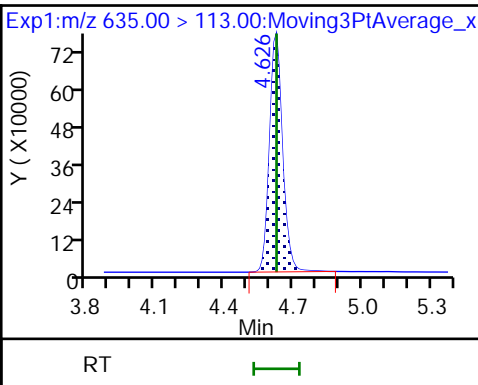
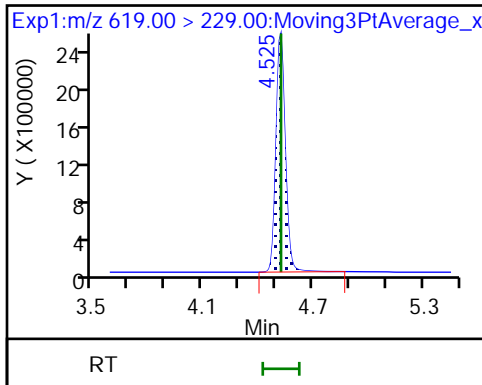
5 BFS_A4B



7 BFS_AB3

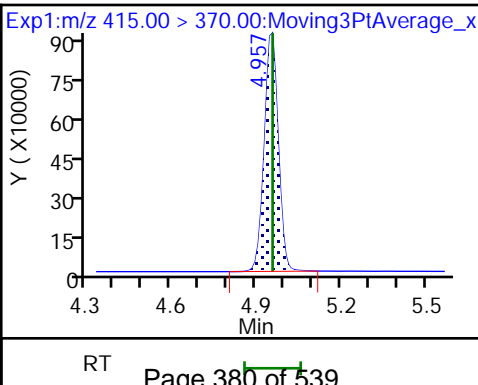
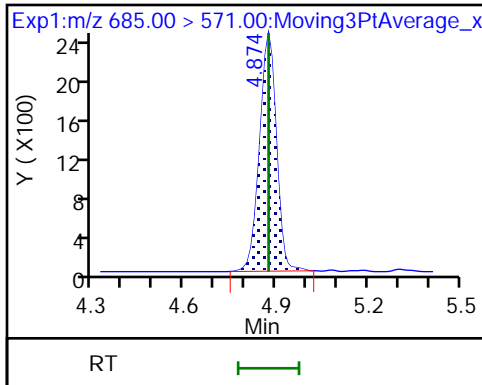
8 BFS_A3B2

9 BFS_B4



10 BFS_A2B3 (M)

* 11 13C2 PFOA (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

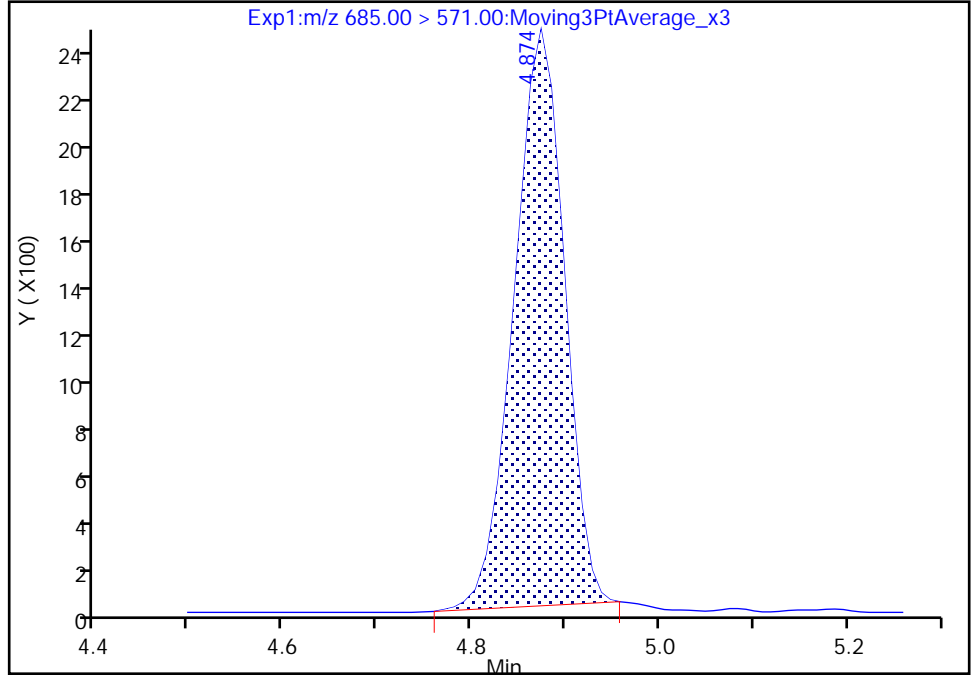
Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d
Injection Date: 14-Aug-2022 06:22:53 Instrument ID: 30733
Lims ID: LCSD 410-285075/3-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 15 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

10 BFS_A2B3, CAS: STL02887

Signal: 1

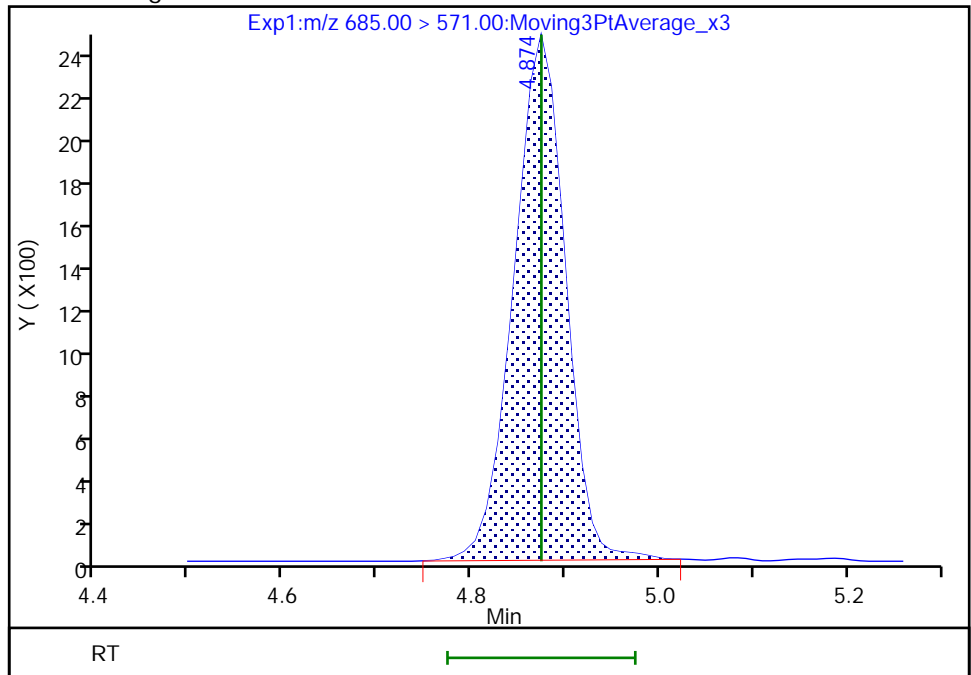
RT: 4.87
Area: 9018
Amount: 1.082456
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 9327
Amount: 1.119577
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:38:02
Audit Action: Manually Integrated

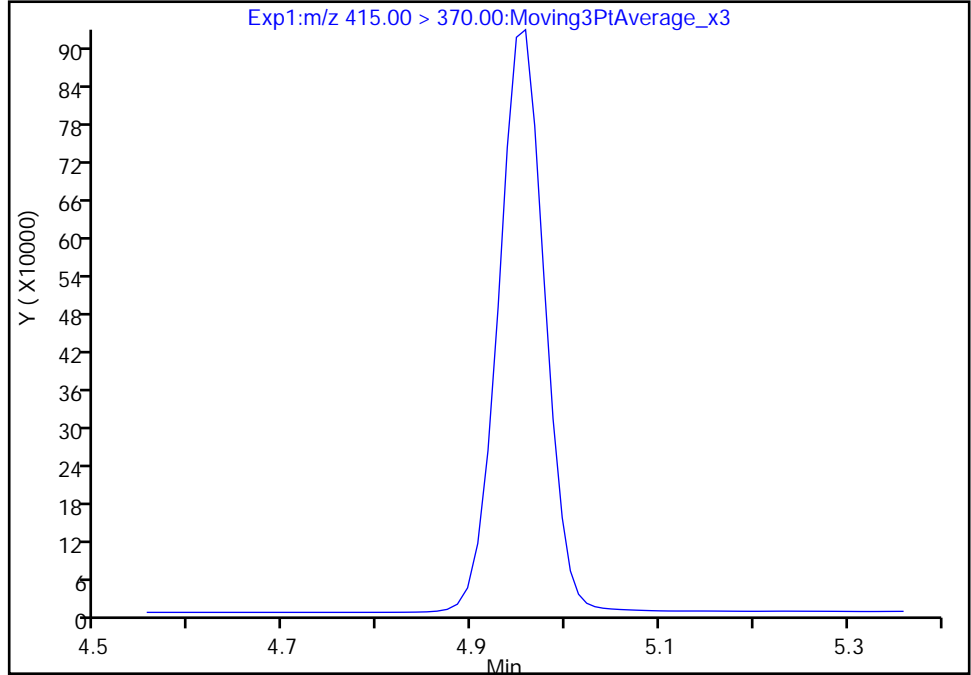
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64076.b\22AUG13BFS-19.d
Injection Date: 14-Aug-2022 06:22:53 Instrument ID: 30733
Lims ID: LCSD 410-285075/3-A
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 15 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: BFS_IDA_30733 Limit Group: LC - BFS_IDA
Column: Detector EXP1

* 11 13C2 PFOA, CAS: STL00623
Signal: 1

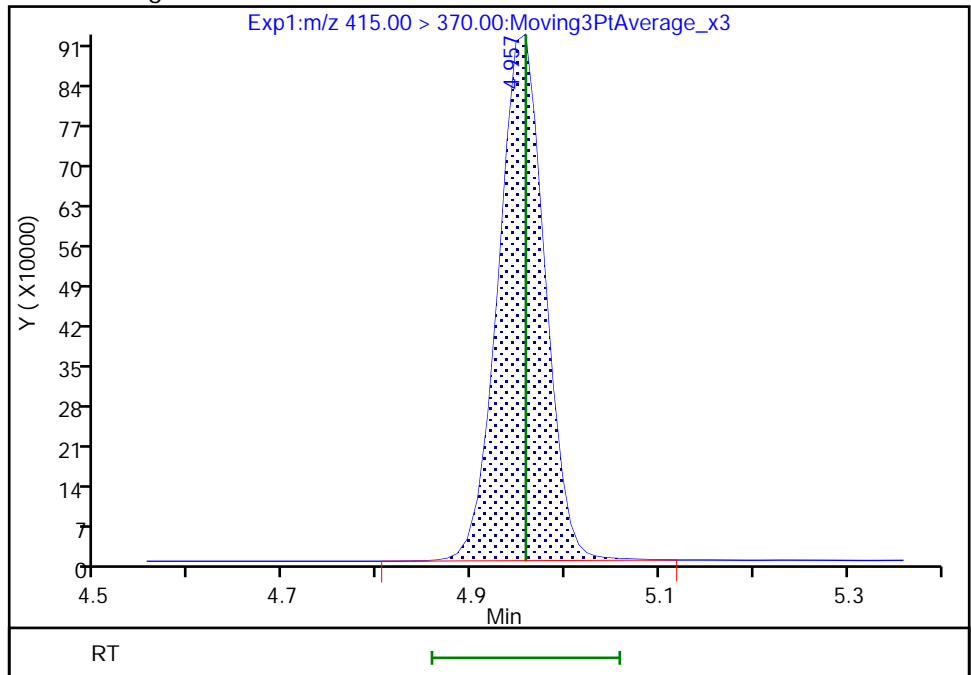
Not Detected
Expected RT: 4.96

Processing Integration Results



RT: 4.96
Area: 3174670
Amount: 5.000000
Amount Units: ng/ml

Manual Integration Results



Reviewer: JVK6, 15-Aug-2022 07:37:51
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/09/2022 00:03

Analysis Batch Number: 283892 End Date: 08/09/2022 02:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-283892/1		08/09/2022 00:03	1	22AUG08BFSCAL-0 3.d	Gemini C18 50mm 3 (mm)
IC 410-283892/2		08/09/2022 00:15	1	22AUG08BFSCAL-0 4.d	Gemini C18 50mm 3 (mm)
IC 410-283892/3		08/09/2022 00:28	1	22AUG08BFSCAL-0 5.d	Gemini C18 50mm 3 (mm)
IC 410-283892/4		08/09/2022 00:40	1	22AUG08BFSCAL-0 6.d	Gemini C18 50mm 3 (mm)
ICISAV 410-283892/5		08/09/2022 00:53	1	22AUG08BFSCAL-0 7.d	Gemini C18 50mm 3 (mm)
IC 410-283892/6		08/09/2022 01:06	1	22AUG08BFSCAL-0 8.d	Gemini C18 50mm 3 (mm)
IC 410-283892/7		08/09/2022 01:18	1	22AUG08BFSCAL-0 9.d	Gemini C18 50mm 3 (mm)
IC 410-283892/8		08/09/2022 01:31	1	22AUG08BFSCAL-1 0.d	Gemini C18 50mm 3 (mm)
IC 410-283892/9		08/09/2022 01:43	1	22AUG08BFSCAL-1 1.d	Gemini C18 50mm 3 (mm)
IC 410-283892/10		08/09/2022 01:56	1	22AUG08BFSCAL-1 2.d	Gemini C18 50mm 3 (mm)
ICB 410-283892/11		08/09/2022 02:09	1	22AUG08BFSCAL-1 3.d	Gemini C18 50mm 3 (mm)
ICV 410-283892/12		08/09/2022 02:21	1	22AUG08BFSCAL-1 4.d	Gemini C18 50mm 3 (mm)
CCV 410-283892/13		08/09/2022 02:34	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/09/2022 02:46

Analysis Batch Number: 283897 End Date: 08/09/2022 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283897/1		08/09/2022 02:46	1	22AUG05BFS-01.d	Gemini C18 50mm 3 (mm)
CCV 410-283897/2		08/09/2022 02:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 03:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 03:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 03:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 03:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:14	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:27	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:40	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 04:52	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:30	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/15		08/09/2022 05:43	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 05:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:08	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/18		08/09/2022 06:20	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 06:58	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:23	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 07:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 08:01	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 08:14	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/29		08/09/2022 08:39	1	22AUG05BFS-29.d	Gemini C18 50mm 3 (mm)
MB 410-279976/1-A		08/09/2022 08:51	1	22AUG05BFS-30.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:04	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:17	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:29	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:42	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 09:54	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:07	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:20	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:32	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:45	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/09/2022 10:58	1		Gemini C18 50mm 3 (mm)
CCV 410-283897/41		08/09/2022 11:10	1	22AUG05BFS-41.d	Gemini C18 50mm 3 (mm)
410-91186-1	EB_071222	08/09/2022 11:23	1	22AUG05BFS-42.d	Gemini C18 50mm 3 (mm)
CCV 410-283897/48		08/09/2022 12:38	1	22AUG05BFS-48.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/10/2022 02:25

Analysis Batch Number: 284260 End Date: 08/10/2022 06:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-284260/1		08/10/2022 02:25	1	22AUG09BFS-01.d	Gemini C18 50mm 3 (mm)
CCV 410-284260/4		08/10/2022 03:04	1	22AUG09BFS-04.d	Gemini C18 50mm 3 (mm)
LCS 410-279976/2-A		08/10/2022 03:17	1	22AUG09BFS-05.d	Gemini C18 50mm 3 (mm)
LCSD 410-279976/3-A		08/10/2022 03:29	1	22AUG09BFS-06.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 03:42	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 04:07	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 04:32	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 04:45	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 04:58	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 05:10	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/10/2022 05:23	1		Gemini C18 50mm 3 (mm)
CCV 410-284260/16		08/10/2022 05:35	1	22AUG09BFS-16.d	Gemini C18 50mm 3 (mm)
410-91186-2 RE	MW-39D RE	08/10/2022 05:48	1	22AUG09BFS-17.d	Gemini C18 50mm 3 (mm)
410-91186-3 RE	MW-39S RE	08/10/2022 06:01	1	22AUG09BFS-18.d	Gemini C18 50mm 3 (mm)
410-91186-4 RE	MW-39I RE	08/10/2022 06:13	1	22AUG09BFS-19.d	Gemini C18 50mm 3 (mm)
410-91186-5 RE	EB_071322 RE	08/10/2022 06:26	1	22AUG09BFS-20.d	Gemini C18 50mm 3 (mm)
CCV 410-284260/21		08/10/2022 06:38	1	22AUG09BFS-21.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/14/2022 02:34

Analysis Batch Number: 285706 End Date: 08/14/2022 05:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-285706/1		08/14/2022 02:34	1	22AUG13BFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-285706/2		08/14/2022 02:48	1	22AUG13BFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-285706/3		08/14/2022 03:01	1	22AUG13BFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-285706/4		08/14/2022 03:13	1	22AUG13BFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-285706/5		08/14/2022 03:26	1	22AUG13BFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-285706/6		08/14/2022 03:39	1	22AUG13BFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-285706/7		08/14/2022 03:51	1	22AUG13BFS-07.d	Gemini C18 50mm 3 (mm)
IC 410-285706/8		08/14/2022 04:04	1	22AUG13BFS-08.d	Gemini C18 50mm 3 (mm)
IC 410-285706/9		08/14/2022 04:16	1	22AUG13BFS-09.d	Gemini C18 50mm 3 (mm)
IC 410-285706/10		08/14/2022 04:29	1	22AUG13BFS-10.d	Gemini C18 50mm 3 (mm)
ICB 410-285706/11		08/14/2022 04:42	1	22AUG13BFS-11.d	Gemini C18 50mm 3 (mm)
ICV 410-285706/12		08/14/2022 04:54	1	22AUG13BFS-12.d	Gemini C18 50mm 3 (mm)
CCV 410-285706/13		08/14/2022 05:07	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/14/2022 05:32

Analysis Batch Number: 285708 End Date: 08/14/2022 12:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-285708/1		08/14/2022 05:32	1	22AUG13BFS-15.d	Gemini C18 50mm 3 (mm)
CCV 410-285708/2		08/14/2022 05:45	1	22AUG13BFS-16.d	Gemini C18 50mm 3 (mm)
MB 410-285075/1-A		08/14/2022 05:57	1	22AUG13BFS-17.d	Gemini C18 50mm 3 (mm)
LCS 410-285075/2-A		08/14/2022 06:10	1	22AUG13BFS-18.d	Gemini C18 50mm 3 (mm)
LCSD 410-285075/3-A		08/14/2022 06:22	1	22AUG13BFS-19.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 06:35	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 06:48	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 07:13	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 07:25	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 07:38	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 07:51	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 08:03	1		Gemini C18 50mm 3 (mm)
410-91186-2	MW-39D	08/14/2022 08:16	1	22AUG13BFS-28.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 08:28	1		Gemini C18 50mm 3 (mm)
CCV 410-285708/16		08/14/2022 08:41	1	22AUG13BFS-30.d	Gemini C18 50mm 3 (mm)
410-91186-4	MW-39I	08/14/2022 08:54	1	22AUG13BFS-31.d	Gemini C18 50mm 3 (mm)
410-91186-5	EB_071322	08/14/2022 09:06	1	22AUG13BFS-32.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 09:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 09:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 09:57	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:22	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 10:47	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:00	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:12	1		Gemini C18 50mm 3 (mm)
CCV 410-285708/29		08/14/2022 11:25	1	22AUG13BFS-43.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 11:50	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 12:03	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/14/2022 12:15	1		Gemini C18 50mm 3 (mm)
CCV 410-285708/35		08/14/2022 12:40	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/15/2022 09:11

Analysis Batch Number: 285953 End Date: 08/15/2022 10:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-285953/1		08/15/2022 09:11	1	22AUG15BFS-05.d	Gemini C18 50mm 3 (mm)
CCV 410-285953/2		08/15/2022 09:25	1	22AUG15BFS-06.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/15/2022 09:38	10		Gemini C18 50mm 3 (mm)
410-91186-3	MW-39S	08/15/2022 09:50	1	22AUG15BFS-08.d	Gemini C18 50mm 3 (mm)
CCV 410-285953/5		08/15/2022 10:03	1	22AUG15BFS-09.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 279976 Batch Start Date: 07/27/22 10:06 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00013
MB 410-279976/1		3535, BFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279976/2		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
LCSD 410-279976/3		3535, BFS		300 g	50 g	250 mL	1 mL	0.045 mL	0.1 mL
410-91186-B-1	EB_071222	3535, BFS	T	302.76 g	28.10 g	274.7 mL	1 mL		0.1 mL
410-91186-B-2	MW-39D	3535, BFS	T	321.74 g	27.23 g	294.5 mL	1 mL		0.1 mL
410-91186-B-3	MW-39S	3535, BFS	T	330.88 g	27.29 g	303.6 mL	1 mL		0.1 mL
410-91186-B-4	MW-39I	3535, BFS	T	355.04 g	27.65 g	327.4 mL	1 mL		0.1 mL
410-91186-B-5	EB_071322	3535, BFS	T	301.63 g	27.43 g	274.2 mL	1 mL		0.1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-279976/1		3535, BFS							
LCS 410-279976/2		3535, BFS							
LCSD 410-279976/3		3535, BFS							
410-91186-B-1	EB_071222	3535, BFS	T						
410-91186-B-2	MW-39D	3535, BFS	T						
410-91186-B-3	MW-39S	3535, BFS	T	Particulate, Required Vacuum					
410-91186-B-4	MW-39I	3535, BFS	T	Particulate, Required Vacuum					
410-91186-B-5	EB_071322	3535, BFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 279976 Batch Start Date: 07/27/22 10:06 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	11, 8
Pipette/Syringe/Dispenser ID	P10-9, PFAS 7, PFAS 8
Solvent Name	0.3%NH4OH:MeOH
Solvent Lot #	37507262233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	EBG 20094
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 283892 Batch Start Date: 08/09/22 00:03 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-283892/1		BFS					200 uL		
IC 410-283892/2		BFS							200 uL
IC 410-283892/3		BFS							
IC 410-283892/4		BFS							
ICISAV 410-283892/5		BFS							
IC 410-283892/6		BFS							
IC 410-283892/7		BFS							
IC 410-283892/8		BFS							
IC 410-283892/9		BFS							
IC 410-283892/10		BFS						200 uL	
ICB 410-283892/11		BFS			10 uL	50 uL			
ICV 410-283892/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-283892/1		BFS							
IC 410-283892/2		BFS							
IC 410-283892/3		BFS		200 uL					
IC 410-283892/4		BFS			200 uL				
ICISAV 410-283892/5		BFS				200 uL			
IC 410-283892/6		BFS					200 uL		
IC 410-283892/7		BFS						200 uL	
IC 410-283892/8		BFS							200 uL
IC 410-283892/9		BFS							
IC 410-283892/10		BFS							
ICB 410-283892/11		BFS							
ICV 410-283892/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 283892 Batch Start Date: 08/09/22 00:03 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-283892/1		BFS							
IC 410-283892/2		BFS							
IC 410-283892/3		BFS							
IC 410-283892/4		BFS							
ICISAV 410-283892/5		BFS							
IC 410-283892/6		BFS							
IC 410-283892/7		BFS							
IC 410-283892/8		BFS							
IC 410-283892/9		BFS		200 uL					
IC 410-283892/10		BFS							
ICB 410-283892/11		BFS							
ICV 410-283892/12		BFS							

Batch Notes	
Mobil Phase ID	2996208022233B, 2996208022233D

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 285075 Batch Start Date: 08/11/22 10:35 Batch Analyst: Hammen, Sarah

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN BFS 00016	PFC_SS 00014
MB 410-285075/1		3535, BFS		300 g	50 g	250 mL	1 mL		100 uL
LCS 410-285075/2		3535, BFS		300 g	50 g	250 mL	1 mL	45 uL	100 uL
LCSD 410-285075/3		3535, BFS		300 g	50 g	250 mL	1 mL	45 uL	100 uL
410-91186-C-2	MW-39D	3535, BFS	T	320.41 g	27.90 g	292.5 mL	1 mL		100 uL
410-91186-C-3	MW-39S	3535, BFS	T	317.18 g	28.07 g	289.1 mL	1 mL		100 uL
410-91186-C-4	MW-39I	3535, BFS	T	309.31 g	28.34 g	281 mL	1 mL		100 uL
410-91186-C-5	EB_071322	3535, BFS	T	304.25 g	27.04 g	277.2 mL	1 mL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-285075/1		3535, BFS							
LCS 410-285075/2		3535, BFS							
LCSD 410-285075/3		3535, BFS							
410-91186-C-2	MW-39D	3535, BFS	T	discolored, visible sediment					
410-91186-C-3	MW-39S	3535, BFS	T	discolored, visible sediment					
410-91186-C-4	MW-39I	3535, BFS	T	discolored, visible sediment					
410-91186-C-5	EB_071322	3535, BFS	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 285075 Batch Start Date: 08/11/22 10:35 Batch Analyst: Hammen, Sarah

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6679410-01
Balance ID	B629764122
Manifold ID	3, 8
Pipette/Syringe/Dispenser ID	P10-4/PFAS 8, 4
Solvent Name	.3% NH4OH in MeOH
Solvent Lot #	4422108112233A
Analyst ID - Spike Analyst	TB30906
Analyst ID - Spike Witness Analyst	SH19843
Methanol ID	220054
Milli-Q Reagent Water ID	HOUSE A-372
QC Bottle Lot ID	0304101H
Centrifuge Tube ID	20211026-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 285706 Batch Start Date: 08/14/22 02:34 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_BFS 00006	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_BFS1 00005	PFC_STD_BFS10 00004	PFC_STD_BFS2 00004
IC 410-285706/1		BFS					200 uL		
IC 410-285706/2		BFS							200 uL
IC 410-285706/3		BFS							
IC 410-285706/4		BFS							
ICISAV 410-285706/5		BFS							
IC 410-285706/6		BFS							
IC 410-285706/7		BFS							
IC 410-285706/8		BFS							
IC 410-285706/9		BFS							
IC 410-285706/10		BFS						200 uL	
ICB 410-285706/11		BFS			10 uL	50 uL			
ICV 410-285706/12		BFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_BFS3 00004	PFC_STD_BFS4 00004	PFC_STD_BFS5 00005	PFC_STD_BFS6 00004	PFC_STD_BFS7 00004	PFC_STD_BFS8 00004
IC 410-285706/1		BFS							
IC 410-285706/2		BFS							
IC 410-285706/3		BFS		200 uL					
IC 410-285706/4		BFS			200 uL				
ICISAV 410-285706/5		BFS				200 uL			
IC 410-285706/6		BFS					200 uL		
IC 410-285706/7		BFS						200 uL	
IC 410-285706/8		BFS							200 uL
IC 410-285706/9		BFS							
IC 410-285706/10		BFS							
ICB 410-285706/11		BFS							
ICV 410-285706/12		BFS							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 285706 Batch Start Date: 08/14/22 02:34 Batch Analyst: Kruelle, Hannah K

Batch Method: BFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD BFS9 00004					
IC 410-285706/1		BFS							
IC 410-285706/2		BFS							
IC 410-285706/3		BFS							
IC 410-285706/4		BFS							
ICISAV 410-285706/5		BFS							
IC 410-285706/6		BFS							
IC 410-285706/7		BFS							
IC 410-285706/8		BFS							
IC 410-285706/9		BFS		200 uL					
IC 410-285706/10		BFS							
ICB 410-285706/11		BFS							
ICV 410-285706/12		BFS							

Batch Notes	
Mobil Phase ID	3311008082022B, 3311008082233C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MFS_IDA

Mono-functional Surfactants (MFS) by
LC/MS/MS using Isotope Dilution

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
EB_071222	410-91186-1	91
MW-39D	410-91186-2	101
MW-39S	410-91186-3	93
MW-39I	410-91186-4	99
MW-39I DL	410-91186-4 DL	98
EB_071322	410-91186-5	96
EB_071322 RE	410-91186-5 RE	95
	MB 410-279532/1-A	85
	MB 410-285099/1-A	101
	LCS 410-279532/2-A	89
	LCS 410-285099/2-A	100
	LCSD 410-285099/3-A	111

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II MFS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG5MFS-03.d

Lab ID: LCS 410-279532/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	41.7	108	70-130	
MFS_M3	39.4	42.4	108	70-130	
MFS_N3	40.1	40.3	101	70-130	
MFS_M4	39.3	42.0	107	70-130	
MFS_N4	39.8	41.7	105	70-130	
MFS_N5	40.4	41.7	103	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG13MFS-14.d

Lab ID: LCS 410-285099/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
MFS_N2	38.6	40.9	106	70-130	
MFS_M3	39.4	40.5	103	70-130	
MFS_N3	40.1	40.2	100	70-130	
MFS_M4	39.3	39.5	101	70-130	
MFS_N4	39.8	36.6	92	70-130	
MFS_N5	40.4	32.4	80	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 22AUG13MFS-15.d

Lab ID: LCSD 410-285099/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
MFS_N2	38.6	40.7	106	0	30	70-130	
MFS_M3	39.4	40.1	102	1	30	70-130	
MFS_N3	40.1	40.3	101	0	30	70-130	
MFS_M4	39.3	38.4	98	3	30	70-130	
MFS_N4	39.8	34.7	87	5	30	70-130	
MFS_N5	40.4	25.7	64	23	30	70-130	*-

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-91186-1

SDG No.:

Lab File ID: 22AUG5MFS-02.d

Lab Sample ID: MB 410-279532/1-A

Matrix: Water

Date Extracted: 07/26/2022 09:35

Instrument ID: 30733

Date Analyzed: 08/05/2022 12:31

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-279532/2-A	22AUG5MFS-03.d	08/05/2022 12:44
EB_071222	410-91186-1	22AUG5MFS-17.d	08/05/2022 15:40
MW-39D	410-91186-2	22AUG5MFS-18.d	08/05/2022 15:52
MW-39S	410-91186-3	22AUG5MFS-19.d	08/05/2022 16:05
MW-39I	410-91186-4	22AUG5MFS-20.d	08/05/2022 16:18
EB_071322	410-91186-5	22AUG5MFS-21.d	08/05/2022 16:30
MW-39I DL	410-91186-4 DL	22AUG08MFS-09.d	08/08/2022 20:11

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 22AUG13MFS-13.d Lab Sample ID: MB 410-285099/1-A

Matrix: Water Date Extracted: 08/11/2022 11:17

Instrument ID: 30733 Date Analyzed: 08/14/2022 00:53

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-285099/2-A	22AUG13MFS-14.d	08/14/2022 01:06
	LCSD 410-285099/3-A	22AUG13MFS-15.d	08/14/2022 01:18
EB_071322 RE	410-91186-5 RE	22AUG13MFS-16.d	08/14/2022 01:31

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-91186-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2022 10:08
 Calibration ID: 41512

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3261205	5.00				
UPPER LIMIT		4891808	5.40				
LOWER LIMIT		1630603	4.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-283151/8		3128259	5.00				
ICV 410-283151/9		3414636	4.99				
CCVL 410-283250/1		3295947	5.01				
MB 410-279532/1-A		3731777	5.01				
LCS 410-279532/2-A		3757354	5.01				
CCV 410-283250/7		3294826	5.00				
CCV 410-283250/16		3064822	5.00				
410-91186-1	EB_071222	3409393	5.00				
410-91186-2	MW-39D	2863588	5.00				
410-91186-3	MW-39S	3296001	5.01				
410-91186-4	MW-39I	2861728	5.01				
410-91186-5	EB_071322	3443947	5.00				
CCVL 410-283250/23		3324937	5.00				
CCVL 410-283896/1		3417511	4.98				
410-91186-4 DL	MW-39I DL	3171114	4.99				
CCV 410-283896/11		3254295	4.99				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-91186-1
 SDG No.: _____
 Instrument ID: 30733 Calibration Start Date: 08/13/2022 22:21
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/13/2022 23:38
 Calibration ID: 41717

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		3203075	4.95				
UPPER LIMIT		4804613	5.35				
LOWER LIMIT		1601538	4.55				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-285701/8		3119613	4.96				
ICV 410-285701/9		3379819	4.95				
CCVL 410-285703/1		3271389	4.95				
MB 410-285099/1-A		3214703	4.96				
LCS 410-285099/2-A		3266908	4.96				
LCSD 410-285099/3-A		3215401	4.96				
410-91186-5 RE	EB_071322 RE	3205215	4.96				
CCV 410-285703/7		3262353	4.96				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_071222 Lab Sample ID: 410-91186-1

Matrix: Water Lab File ID: 22AUG5MFS-17.d

Analysis Method: MFS Date Collected: 07/12/2022 16:00

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 276(mL) Date Analyzed: 08/05/2022 15:40

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.91	0.18
STL02874	MFS_M3	ND		0.91	0.18
STL02875	MFS_N3	ND		0.91	0.18
STL02876	MFS_M4	ND		0.91	0.45
STL02877	MFS_N4	ND		1.8	0.91
STL02888	MFS_N5	ND		2.7	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-17.d
 Lims ID: 410-91186-A-1-A
 Client ID: EB_071222
 Sample Type: Client
 Inject. Date: 05-Aug-2022 15:40:23 ALS Bottle#: 23 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-A-1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-017
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:18 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:06:38
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.396	4.393	0.003	0.878	623736	4.53	90.6	2664
* 2 13C2 PFOA	415.00 > 370.00	5.004	4.998	0.006		3409393	5.00		3806
3 MFS_N2	461.00 > 367.00	5.252	5.246	0.006	1.195	4692	-0.0678		1.0

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-17.d

Injection Date: 05-Aug-2022 15:40:23

Instrument ID: 30733

Lims ID: 410-91186-A-1-A

Lab Sample ID: 410-91186-1

Client ID: EB_071222

Operator ID: US19_USR_INS20260

ALS Bottle#: 23

Worklist Smp#: 17

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

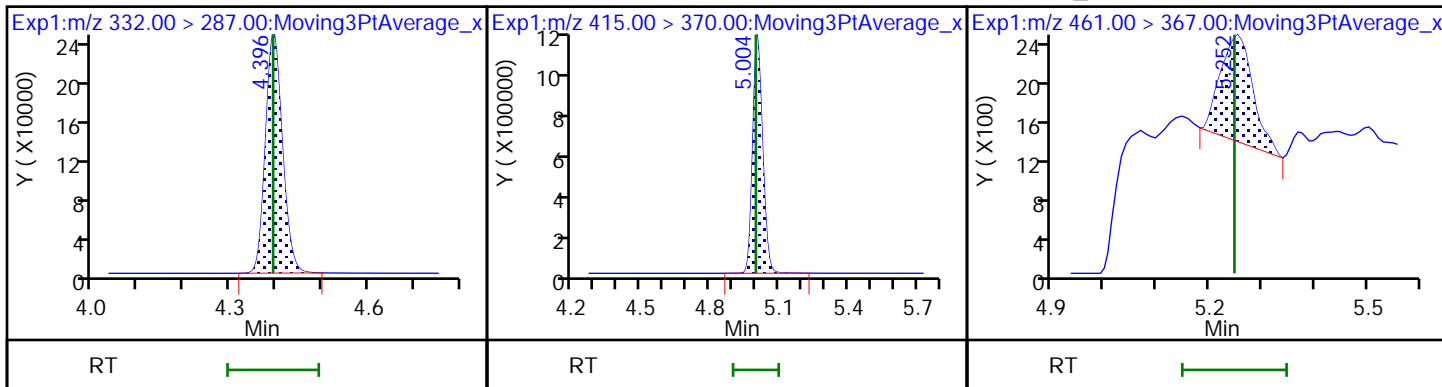
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

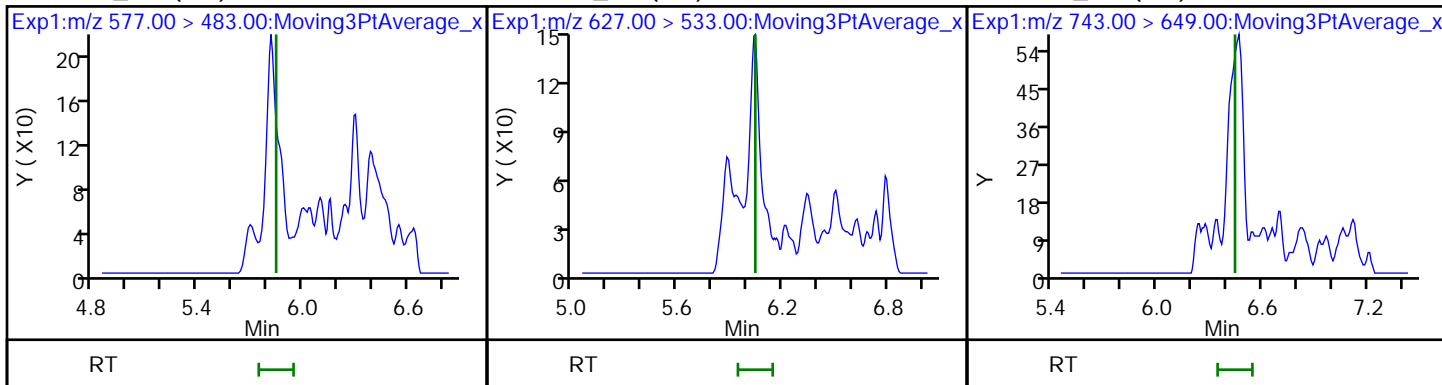
3 MFS_N2



4 MFS_M3 (ND)

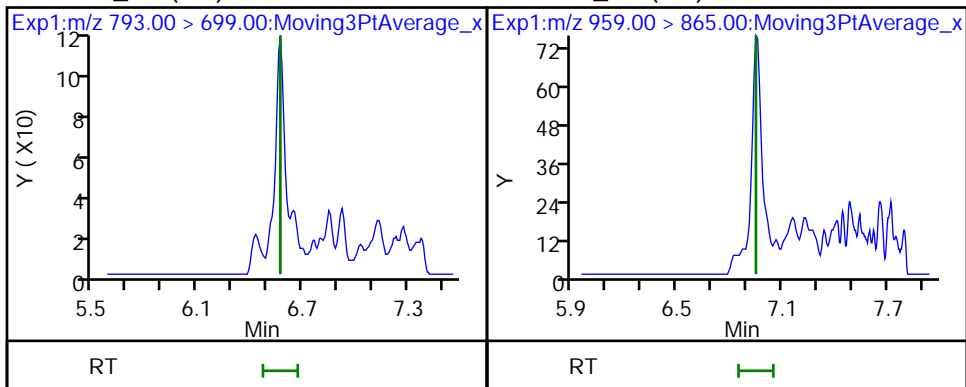
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39D Lab Sample ID: 410-91186-2

Matrix: Water Lab File ID: 22AUG5MFS-18.d

Analysis Method: MFS Date Collected: 07/13/2022 09:25

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 298.9(mL) Date Analyzed: 08/05/2022 15:52

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	23		0.84	0.17
STL02874	MFS_M3	0.91		0.84	0.17
STL02875	MFS_N3	2.3		0.84	0.17
STL02876	MFS_M4	ND		0.84	0.42
STL02877	MFS_N4	ND		1.7	0.84
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-18.d
 Lims ID: 410-91186-A-2-A
 Client ID: MW-39D
 Sample Type: Client
 Inject. Date: 05-Aug-2022 15:52:57 ALS Bottle#: 24 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-A-2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-018
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:18 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:06:41
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.393	-0.004	0.878	584980	5.06	101	2580
* 2 13C2 PFOA	415.00 > 370.00	4.999	4.998	0.001		2863588	5.00		3226
3 MFS_N2	461.00 > 367.00	5.221	5.246	-0.025	1.190	2118165	6.74		507
4 MFS_M3	577.00 > 483.00	5.808	5.848	-0.040	1.323	83090	0.2730		280
5 MFS_N3	627.00 > 533.00	6.025	6.044	-0.019	1.373	199969	0.6890		1216
6 MFS_M4	743.00 > 649.00	6.394	6.442	-0.048	1.457	2868	-0.0427		56.5
7 MFS_N4	793.00 > 699.00	6.559	6.573	-0.014	1.494	1541	-0.0954		30.3

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-18.d

Injection Date: 05-Aug-2022 15:52:57

Instrument ID: 30733

Lims ID: 410-91186-A-2-A

Lab Sample ID: 410-91186-2

Client ID: MW-39D

Operator ID: US19_USR_INS20260

ALS Bottle#: 24

Worklist Smp#: 18

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

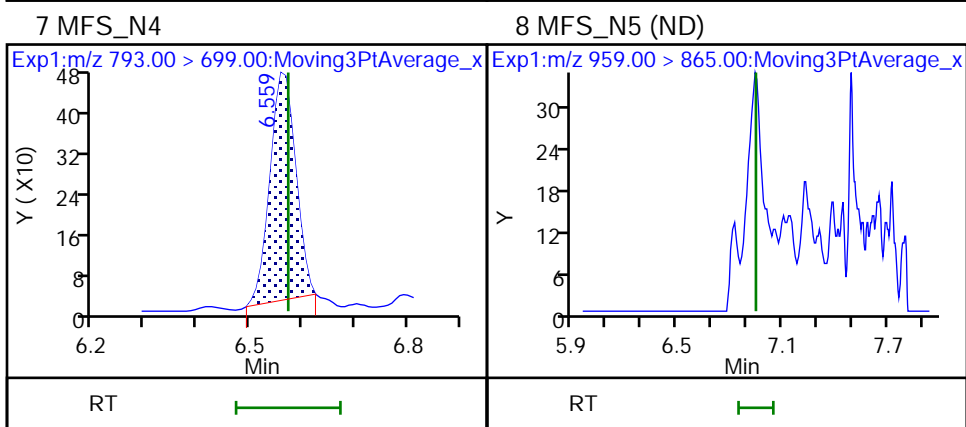
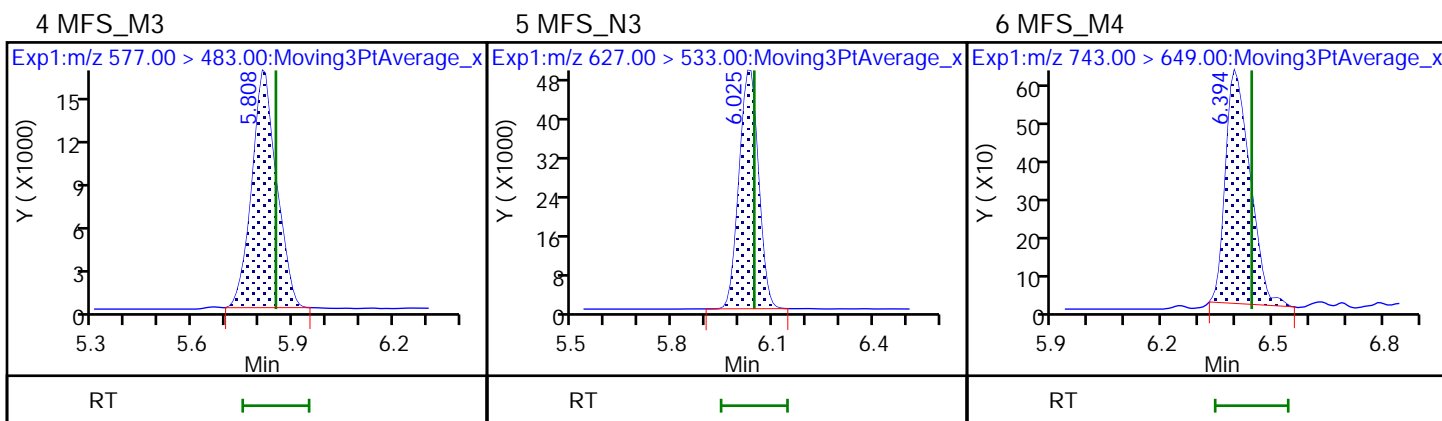
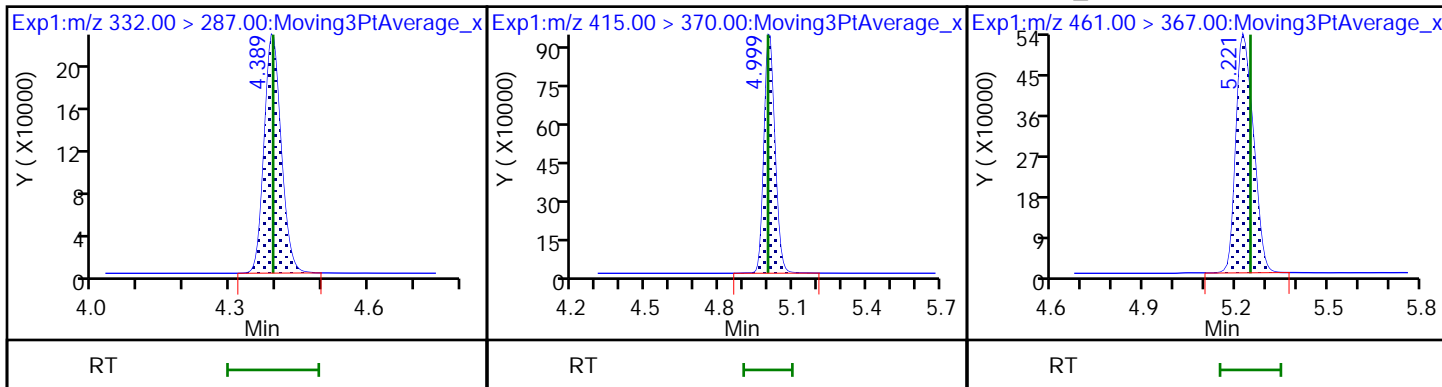
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39S Lab Sample ID: 410-91186-3

Matrix: Water Lab File ID: 22AUG5MFS-19.d

Analysis Method: MFS Date Collected: 07/13/2022 09:30

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 294.8 (mL) Date Analyzed: 08/05/2022 16:05

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	22		0.85	0.17
STL02874	MFS_M3	0.53	J	0.85	0.17
STL02875	MFS_N3	1.9		0.85	0.17
STL02876	MFS_M4	ND		0.85	0.42
STL02877	MFS_N4	ND		1.7	0.85
STL02888	MFS_N5	ND		2.5	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	93		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-19.d
 Lims ID: 410-91186-A-3-A
 Client ID: MW-39S
 Sample Type: Client
 Inject. Date: 05-Aug-2022 16:05:32 ALS Bottle#: 25 Worklist Smp#: 19
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-A-3-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-019
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:18 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:06:45
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.393	4.393	0.0	0.878	615832	4.63	92.5	2859
* 2 13C2 PFOA	415.00 > 370.00	5.006	4.998	0.008		3296001	5.00		3212
3 MFS_N2	461.00 > 367.00	5.250	5.246	0.004	1.195	2161271	6.53		476
4 MFS_M3	577.00 > 483.00	5.817	5.848	-0.031	1.324	58539	0.1570		240
5 MFS_N3	627.00 > 533.00	6.042	6.044	-0.002	1.375	172101	0.5560		1216
7 MFS_N4	793.00 > 699.00	6.571	6.573	-0.002	1.496	2021	-0.0927		34.9

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-19.d

Injection Date: 05-Aug-2022 16:05:32

Instrument ID: 30733

Lims ID: 410-91186-A-3-A

Lab Sample ID: 410-91186-3

Client ID: MW-39S

Operator ID: US19_USR_INS20260

ALS Bottle#: 25

Worklist Smp#: 19

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

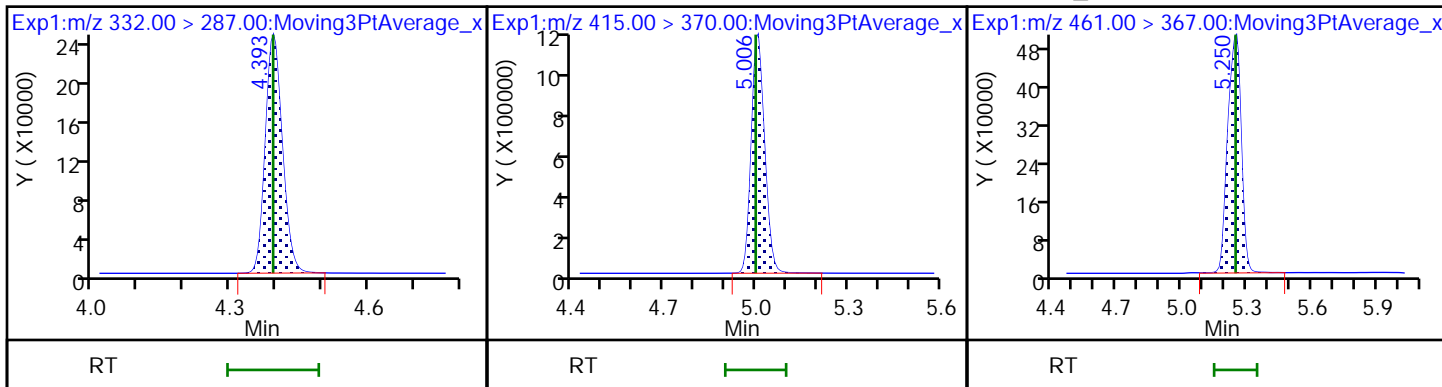
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

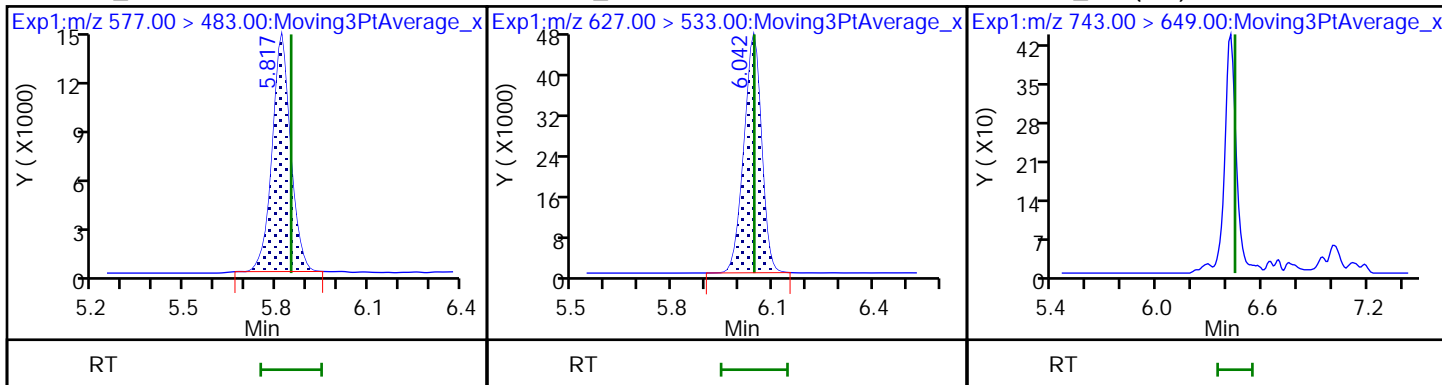
3 MFS_N2



4 MFS_M3

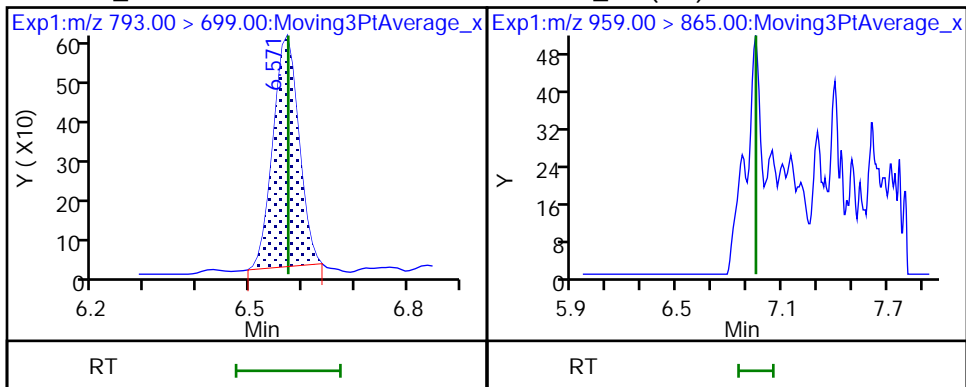
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39I Lab Sample ID: 410-91186-4

Matrix: Water Lab File ID: 22AUG5MFS-20.d

Analysis Method: MFS Date Collected: 07/13/2022 10:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 289.7(mL) Date Analyzed: 08/05/2022 16:18

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02874	MFS_M3	45		0.86	0.17
STL02875	MFS_N3	13		0.86	0.17
STL02876	MFS_M4	ND		0.86	0.43
STL02877	MFS_N4	ND		1.7	0.86
STL02888	MFS_N5	ND		2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-20.d
 Lims ID: 410-91186-A-4-A
 Client ID: MW-39I
 Sample Type: Client
 Inject. Date: 05-Aug-2022 16:18:09 ALS Bottle#: 26 Worklist Smp#: 20
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-A-4-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-020
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:18 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:07:06
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.398	4.393	0.005	0.879	574419	4.97	99.4	2492
* 2 13C2 PFOA	415.00 > 370.00	5.006	4.998	0.008		2861728	5.00		3587
3 MFS_N2	461.00 > 367.00	5.250	5.246	0.004	1.194	85920552	281.9		E E
4 MFS_M3	577.00 > 483.00	5.817	5.848	-0.031	1.323	3020006	12.9		2142
5 MFS_N3	627.00 > 533.00	6.042	6.044	-0.002	1.374	1016575	3.73		2579

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

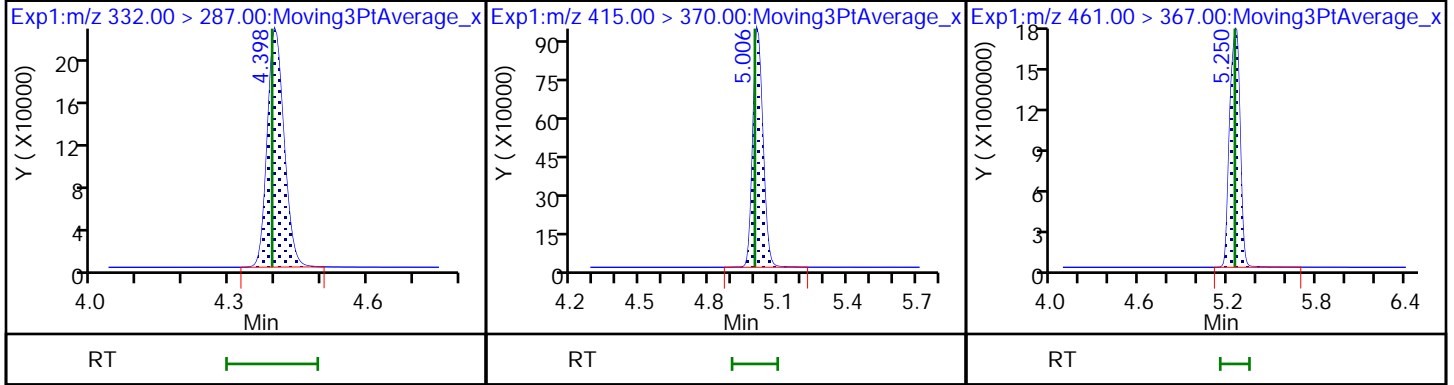
PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-20.d
Injection Date: 05-Aug-2022 16:18:09 Instrument ID: 30733
Lims ID: 410-91186-A-4-A Lab Sample ID: 410-91186-4
Client ID: MW-391
Operator ID: US19_USR_INS20260 ALS Bottle#: 26 Worklist Smp#: 20
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

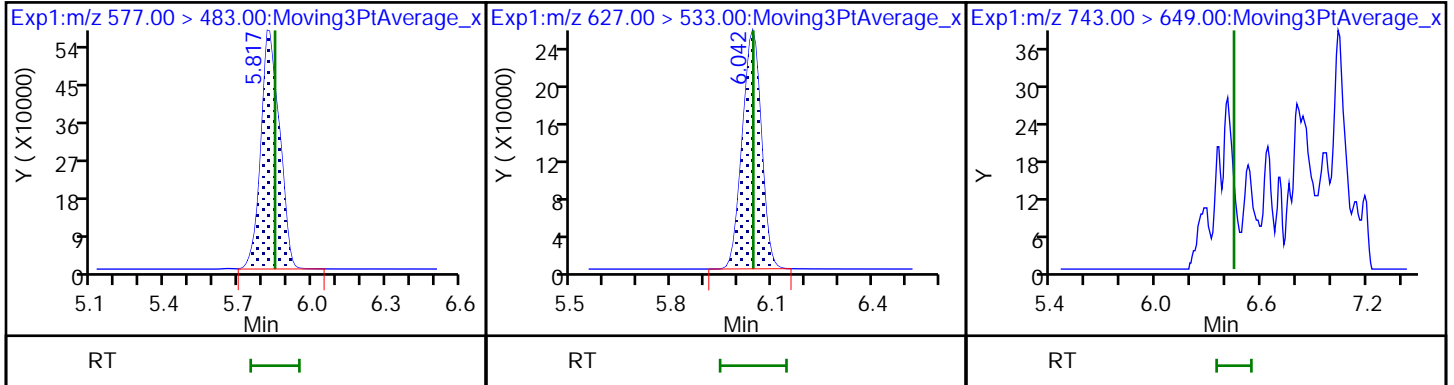
3 MFS_N2



4 MFS_M3

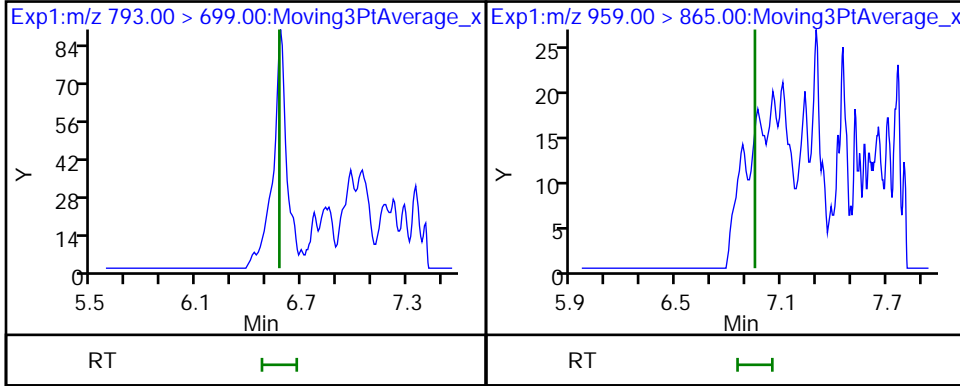
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: MW-39I DL Lab Sample ID: 410-91186-4 DL

Matrix: Water Lab File ID: 22AUG08MFS-09.d

Analysis Method: MFS Date Collected: 07/13/2022 10:40

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 289.7(mL) Date Analyzed: 08/08/2022 20:11

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283896 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1600		8.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-09.d
 Lims ID: 410-91186-A-4-A
 Client ID: MW-39I
 Sample Type: Client
 Inject. Date: 08-Aug-2022 20:11:48 ALS Bottle#: 15 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 410-91186-A-4-A D10
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:39:59

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.380	4.379	0.001	0.878	62743	0.4899	98.0	222
* 2 13C2 PFOA	415.00 > 370.00	4.991	4.983	0.008		3171114	5.00		354
3 MFS_N2	461.00 > 367.00	5.235	5.232	0.003	1.195	15415447	46.2		4298
4 MFS_M3	577.00 > 483.00	5.806	5.839	-0.033	1.326	300240	1.10		209
5 MFS_N3	627.00 > 533.00	6.022	6.028	-0.006	1.375	105809	0.3197		276

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-09.d

Injection Date: 08-Aug-2022 20:11:48

Instrument ID: 30733

Lims ID: 410-91186-A-4-A

Lab Sample ID: 410-91186-4

Client ID: MW-39I

Operator ID: US19_USR_INS20260

ALS Bottle#: 15

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 10.0000

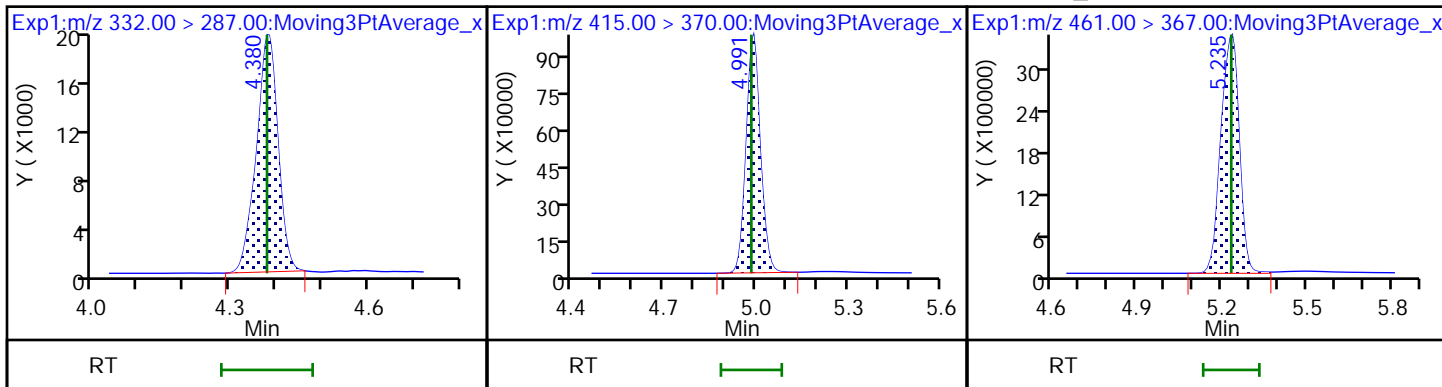
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

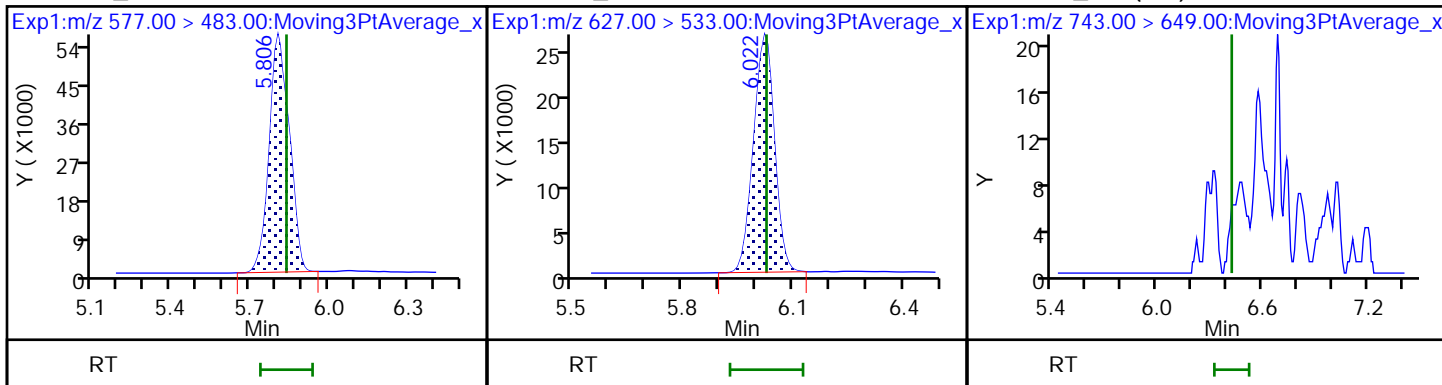
3 MFS_N2



4 MFS_M3

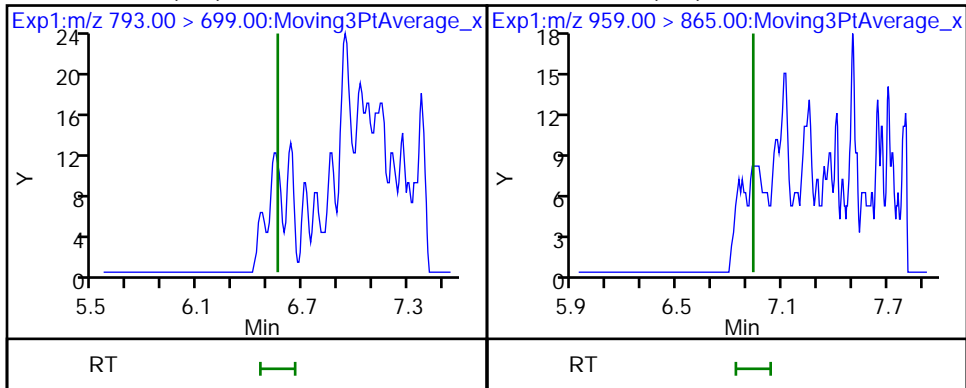
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_071322 Lab Sample ID: 410-91186-5

Matrix: Water Lab File ID: 22AUG5MFS-21.d

Analysis Method: MFS Date Collected: 07/13/2022 10:15

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 285.1(mL) Date Analyzed: 08/05/2022 16:30

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	1.5	cn	0.88	0.18
STL02874	MFS_M3	ND		0.88	0.18
STL02875	MFS_N3	ND		0.88	0.18
STL02876	MFS_M4	ND		0.88	0.44
STL02877	MFS_N4	ND		1.8	0.88
STL02888	MFS_N5	ND		2.6	1.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-21.d
 Lims ID: 410-91186-A-5-A
 Client ID: EB_071322
 Sample Type: Client
 Inject. Date: 05-Aug-2022 16:30:46 ALS Bottle#: 27 Worklist Smp#: 21
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-A-5-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-021
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:18 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:07:11
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.393	4.393	0.0	0.878	667567	4.80	96.0	3022
* 2 13C2 PFOA	415.00 > 370.00	5.004	4.998	0.006		3443947	5.00		3500
3 MFS_N2	461.00 > 367.00	5.253	5.246	0.007	1.196	181868	0.4316		41.3
4 MFS_M3	577.00 > 483.00	5.819	5.848	-0.029	1.325	11061	-0.0369		38.0
5 MFS_N3	627.00 > 533.00	6.043	6.044	-0.001	1.376	1806	-0.0341		17.6

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-21.d

Injection Date: 05-Aug-2022 16:30:46

Instrument ID: 30733

Lims ID: 410-91186-A-5-A

Lab Sample ID: 410-91186-5

Client ID: EB_071322

Operator ID: US19_USR_INS20260

ALS Bottle#: 27

Worklist Smp#: 21

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

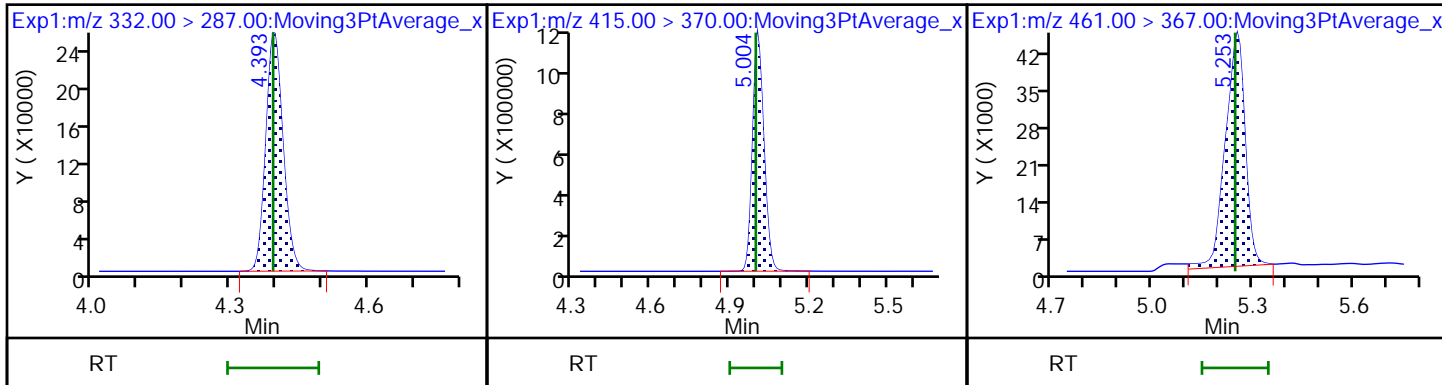
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

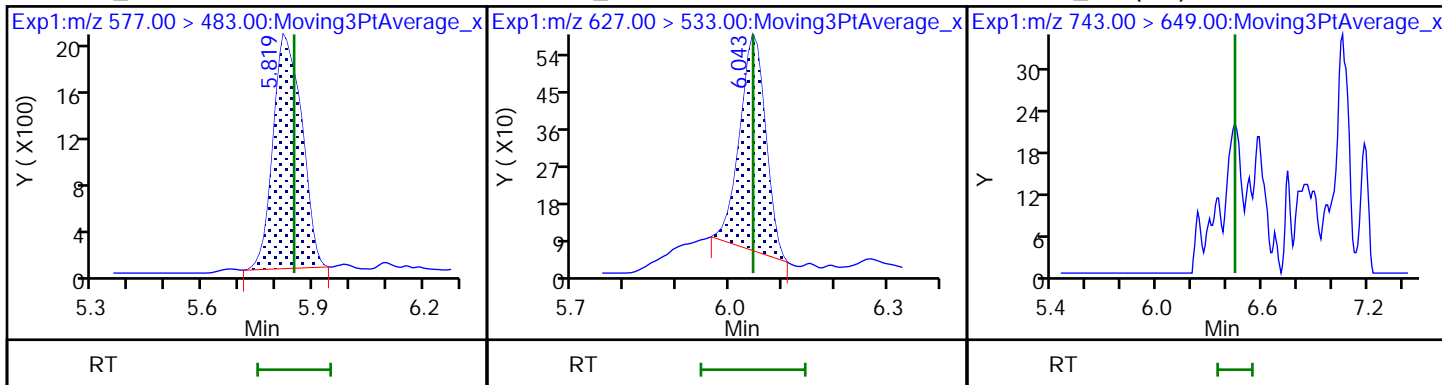
3 MFS_N2



4 MFS_M3

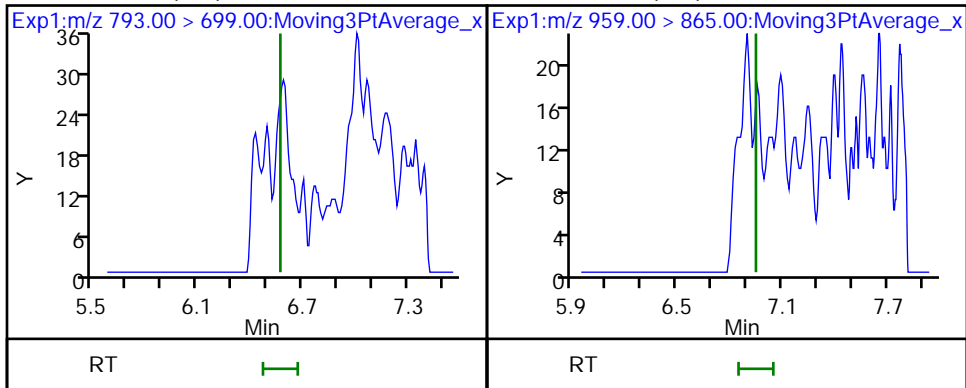
5 MFS_N3

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: EB_071322 RE Lab Sample ID: 410-91186-5 RE

Matrix: Water Lab File ID: 22AUG13MFS-16.d

Analysis Method: MFS Date Collected: 07/13/2022 10:15

Extraction Method: 3535 Date Extracted: 08/11/2022 11:17

Sample wt/vol: 288.5(mL) Date Analyzed: 08/14/2022 01:31

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285703 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND	H	0.87	0.17
STL02874	MFS_M3	ND	H	0.87	0.17
STL02875	MFS_N3	ND	H	0.87	0.17
STL02876	MFS_M4	ND	H	0.87	0.43
STL02877	MFS_N4	ND	H	1.7	0.87
STL02888	MFS_N5	ND	H *-	2.6	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-16.d
 Lims ID: 410-91186-D-5-A
 Client ID: EB_071322
 Sample Type: Client
 Inject. Date: 14-Aug-2022 01:31:33 ALS Bottle#: 13 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-91186-D-5-A
 Misc. Info.: Plate: 10 Rack: 1 410-0064072-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:15:23 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:15:17
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA
 332.00 > 287.00 4.345 4.342 0.003 0.877 612611 4.76 95.2 881
 * 2 13C2 PFOA
 415.00 > 370.00 4.955 4.949 0.006 3205215 5.00 1021

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-16.d

Injection Date: 14-Aug-2022 01:31:33

Instrument ID: 30733

Lims ID: 410-91186-D-5-A

Lab Sample ID: 410-91186-5

Client ID: EB_071322

Operator ID: US19_USR_INS20260

ALS Bottle#: 13 Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

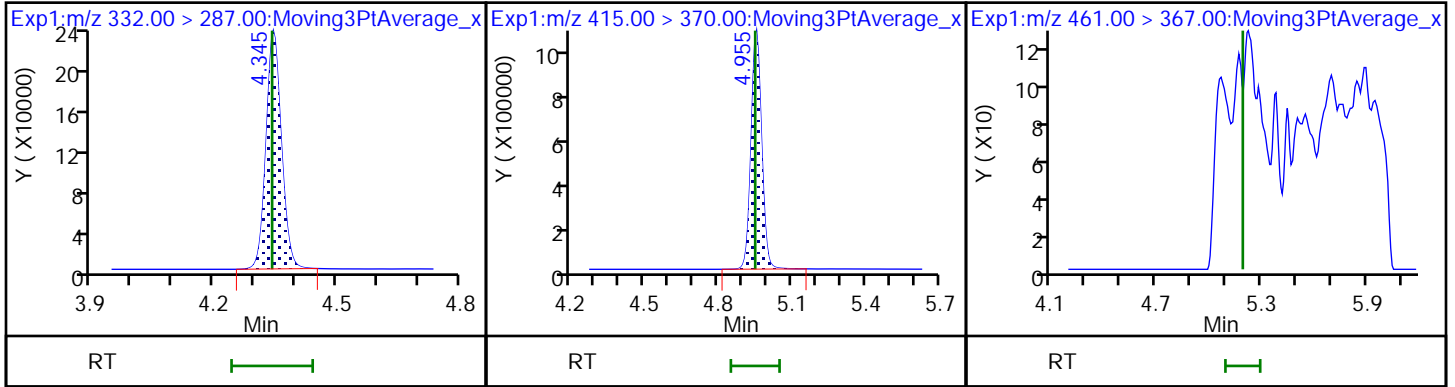
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

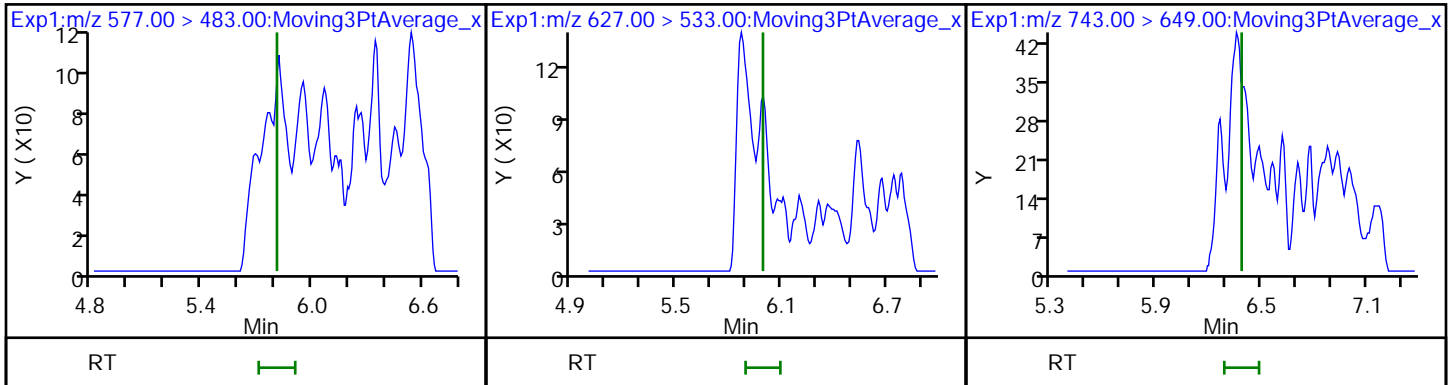
3 MFS_N2 (ND)



4 MFS_M3 (ND)

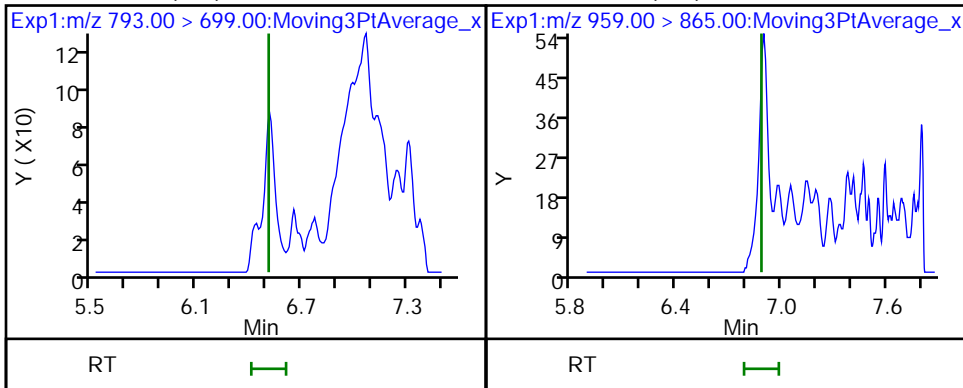
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	3.1413 2.8445	2.9008 2.4887	2.9557	2.9518	2.9432	L1ID	0.217 4	2.652 3						0.9940		0.9900	
MFS_M3	2.4507 2.1452	2.2440 1.9254	2.1663	2.2241	2.1896	L1ID	0.157 6	2.023 9						0.9960		0.9900	
MFS_N3	2.6235 2.4669	2.3256 2.2451	2.4411	2.4745	2.5266	L1ID	0.093 4	2.345 2						0.9970		0.9900	
MFS_M4	1.1959 1.1147	1.1009 0.9770	1.1206	1.1335	1.1472	L1ID	0.068 8	1.039 1						0.9950		0.9900	
MFS_N4	1.5026 1.1293	1.3814 +++++	1.3612	1.3436	1.2213	L1ID	0.124 8	1.169 8						0.9960		0.9900	
MFS_N5	1.3024 1.1832	1.1960 +++++	1.2566	1.3302	1.3063	L1ID	0.027 6	1.229 0						0.9970		0.9900	
13C3 HFPO-DA	0.2006 0.1992	0.2065 0.2105	0.1979	0.1942	0.2044	Ave		0.201 9			2.8						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		L1ID	95417 8499793	192513 16896802	378434	1780473	3848185	0.241 24.1	0.482 48.2	0.964	4.82	9.64
MFS_M3		L1ID	76048 6548749	152139 13354811	283357	1370537	2924780	0.246 24.6	0.492 49.2	0.985	4.92	9.85
MFS_N3		L1ID	82777 7657320	160319 15833576	324662	1550403	3431578	0.250 25.0	0.501 50.1	1.00	5.01	10.0
MFS_M4		L1ID	36993 3392053	74399 6755284	146111	696263	1527454	0.245 24.5	0.491 49.1	0.982	4.91	9.82
MFS_N4		L1ID	47121 3483893	94642 +++++	179924	836694	1648528	0.249 24.9	0.498 +++++	0.995	4.98	9.95
MFS_N5		L1ID	41444 3703732	83147 +++++	168541	840493	1789253	0.252 25.2	0.505 +++++	1.01	5.05	10.1
13C3 HFPO-DA	13PF OA	Ave	630232 620002	688476 704345	664135	625747	678213	5.00 5.00	5.00 5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
L1ID = Linear 1/conc IsoDil

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 283151

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2022 08:53 Calibration End Date: 08/05/2022 10:08 Calibration ID: 41512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-283151/1	22AUG05MFSCAL-05.d
Level 2	IC 410-283151/2	22AUG05MFSCAL-06.d
Level 3	IC 410-283151/3	22AUG05MFSCAL-07.d
Level 4	IC 410-283151/4	22AUG05MFSCAL-08.d
Level 5	ICISAV 410-283151/5	22AUG05MFSCAL-09.d
Level 6	IC 410-283151/6	22AUG05MFSCAL-10.d
Level 7	IC 410-283151/7	22AUG05MFSCAL-11.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-15.6 -6.3	-7.6	2.9	9.6	10.1	6.9	50 30	30	30	30	30	30
MFS_M3	-10.5 -5.0	-4.9	-0.9	8.3	7.4	5.7	50 30	30	30	30	30	30
MFS_N3	-4.1 -4.3	-8.8	0.1	4.7	7.3	5.0	50 30	30	30	30	30	30
MFS_M4	-11.9 -6.1	-7.6	1.1	7.7	9.7	7.0	50 30	30	30	30	30	30
MFS_N4	-14.4 ++++	-3.4	5.6	12.7	3.3	-3.9	50	30	30	30	30	30
MFS_N5	-2.9 ++++	-7.1	0.0	7.8	6.1	-3.8	50	30	30	30	30	30
13C3 HFPO-DA	-0.6						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 05-Aug-2022 08:53:16 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:23

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.387	-0.002	0.877	630232	4.97	99.4	2294
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.996	0.002		3141195	5.00		4882
3 MFS_N2	461.00 > 367.00	5.242	5.239	0.003	1.196	95417	0.2035	84.4	1392
4 MFS_M3	577.00 > 483.00	5.854	5.849	0.005	1.335	76048	0.2202	89.5	446
5 MFS_N3	627.00 > 533.00	6.039	6.036	0.003	1.377	82777	0.2402	95.9	1464
6 MFS_M4	743.00 > 649.00	6.437	6.439	-0.002	1.468	36993	0.2162	88.1	1139
7 MFS_N4	793.00 > 699.00	6.568	6.565	0.003	1.498	47121	0.2129	85.6	1240
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.583	41444	0.2451	97.1	1814

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-05.d

Injection Date: 05-Aug-2022 08:53:16

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

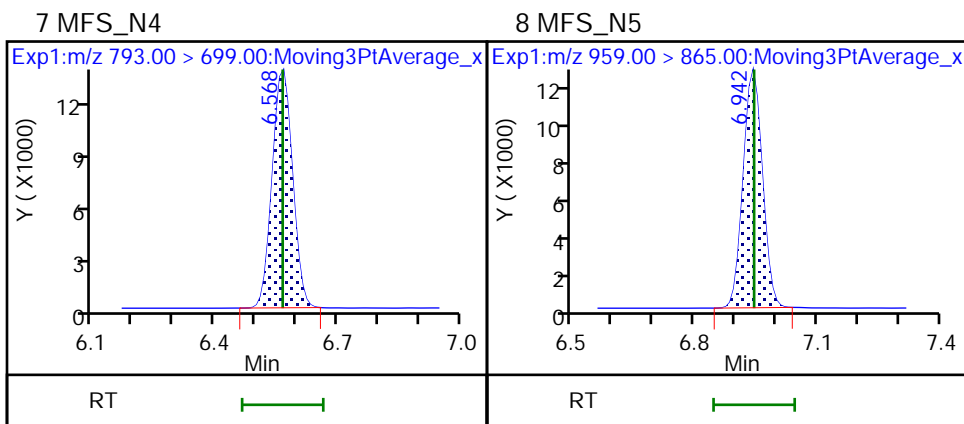
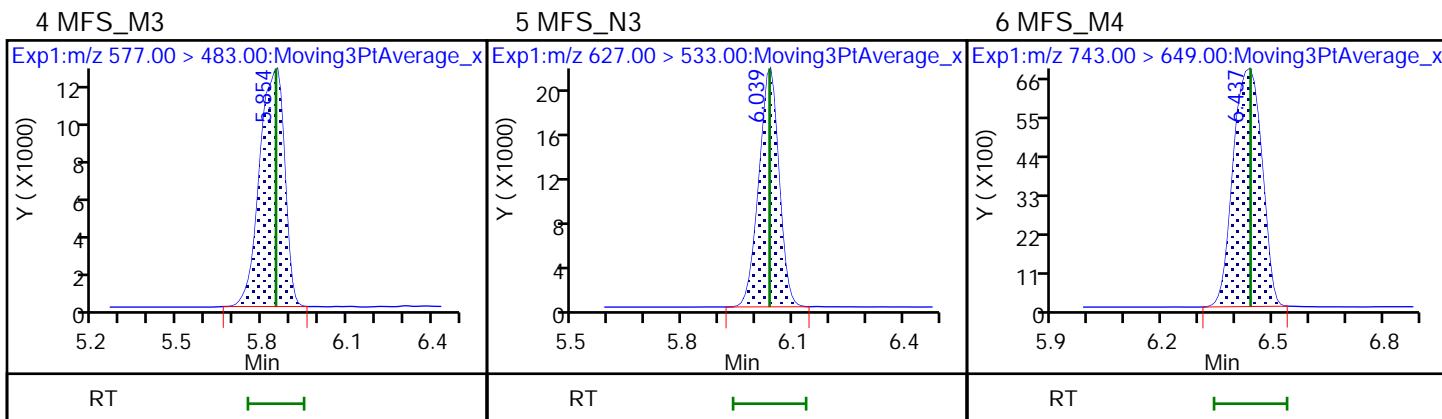
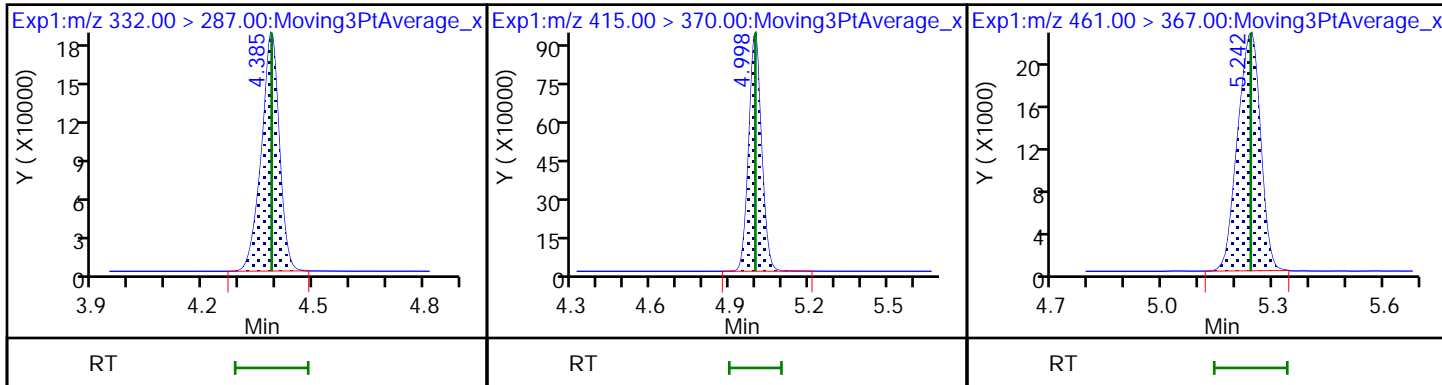
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 05-Aug-2022 09:05:51 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:36 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:17

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.391	4.387	0.004	0.878	688476	5.11	102	2607
* 2 13C2 PFOA	415.00 > 370.00	5.000	4.996	0.004		3333798	5.00		4432
3 MFS_N2	461.00 > 367.00	5.244	5.239	0.005	1.194	192513	0.4452	92.4	2755
4 MFS_M3	577.00 > 483.00	5.848	5.849	-0.001	1.332	152139	0.4681	95.1	712
5 MFS_N3	627.00 > 533.00	6.043	6.036	0.007	1.376	160319	0.4566	91.2	2373
6 MFS_M4	743.00 > 649.00	6.441	6.439	0.002	1.467	74399	0.4537	92.4	1695
7 MFS_N4	793.00 > 699.00	6.572	6.565	0.007	1.497	94642	0.4809	96.6	1980
8 MFS_N5	959.00 > 865.00	6.946	6.944	0.002	1.582	83147	0.4689	92.9	2585

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-06.d

Injection Date: 05-Aug-2022 09:05:51

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

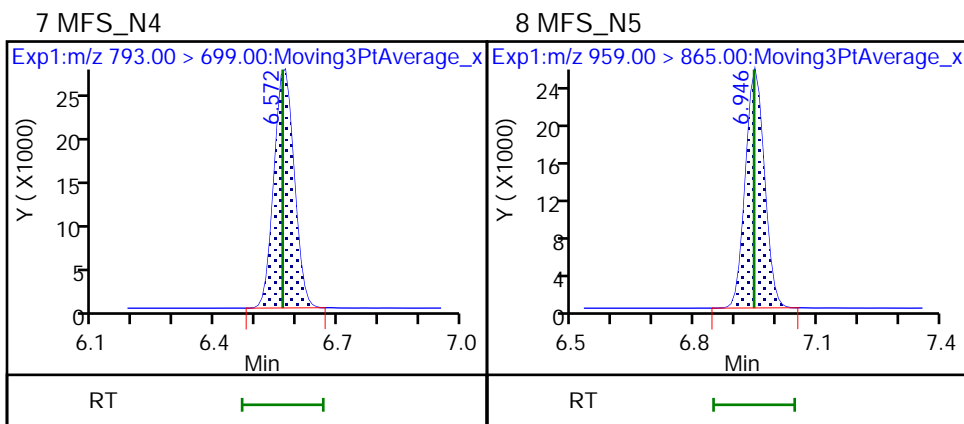
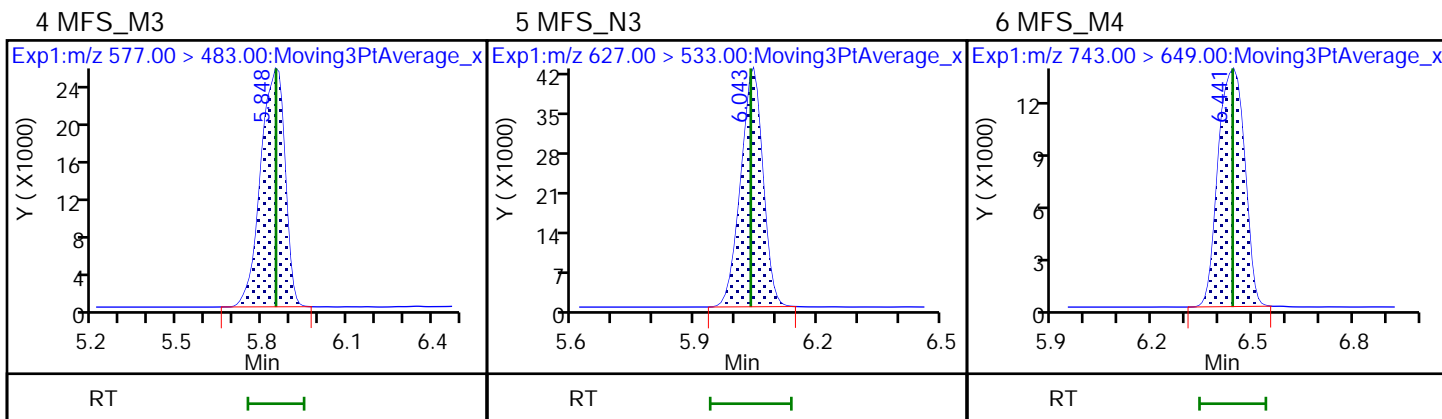
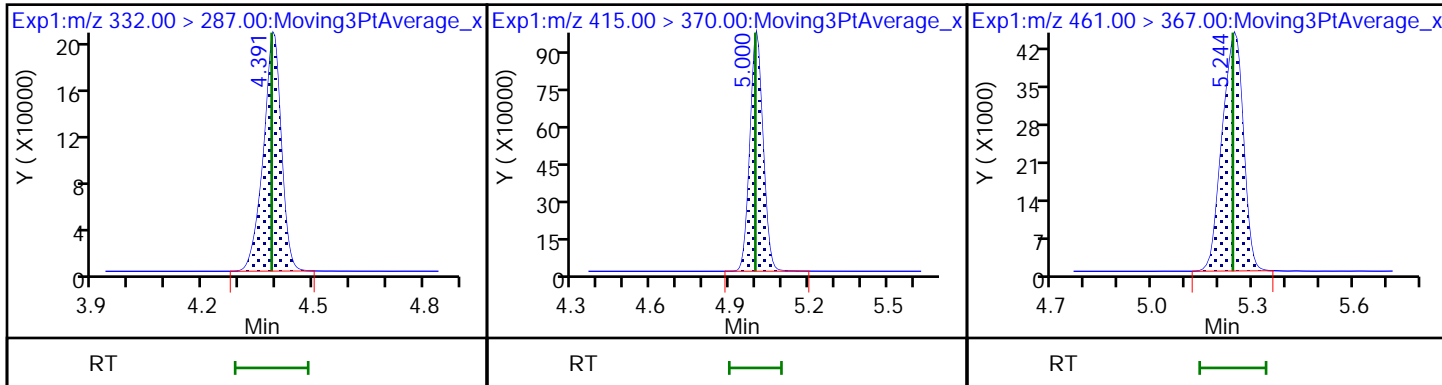
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 05-Aug-2022 09:18:28 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:37 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 09:38:13

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.387	4.387	0.0	0.878	664135	4.90	98.0	2525
* 2 13C2 PFOA	415.00 > 370.00	4.997	4.996	0.001		3355597	5.00		5097
3 MFS_N2	461.00 > 367.00	5.238	5.239	-0.001	1.194	378434	0.99	103	4806
4 MFS_M3	577.00 > 483.00	5.849	5.849	0.0	1.333	283357	0.9762	99.1	1154
5 MFS_N3	627.00 > 533.00	6.036	6.036	0.0	1.376	324662	1.00	100	3444
6 MFS_M4	743.00 > 649.00	6.442	6.439	0.003	1.468	146111	0.99	101	2437
7 MFS_N4	793.00 > 699.00	6.564	6.565	-0.001	1.496	179924	1.05	106	3115
8 MFS_N5	959.00 > 865.00	6.945	6.944	0.001	1.583	168541	1.01	100	4762

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-07.d

Injection Date: 05-Aug-2022 09:18:28

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

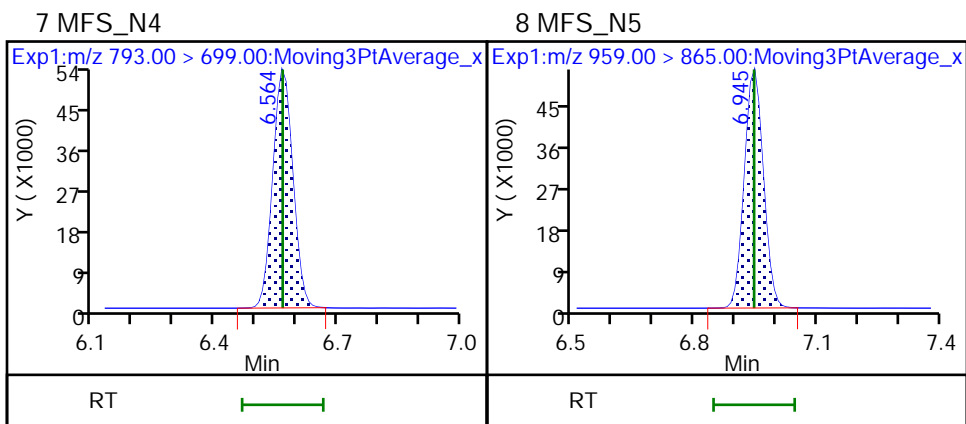
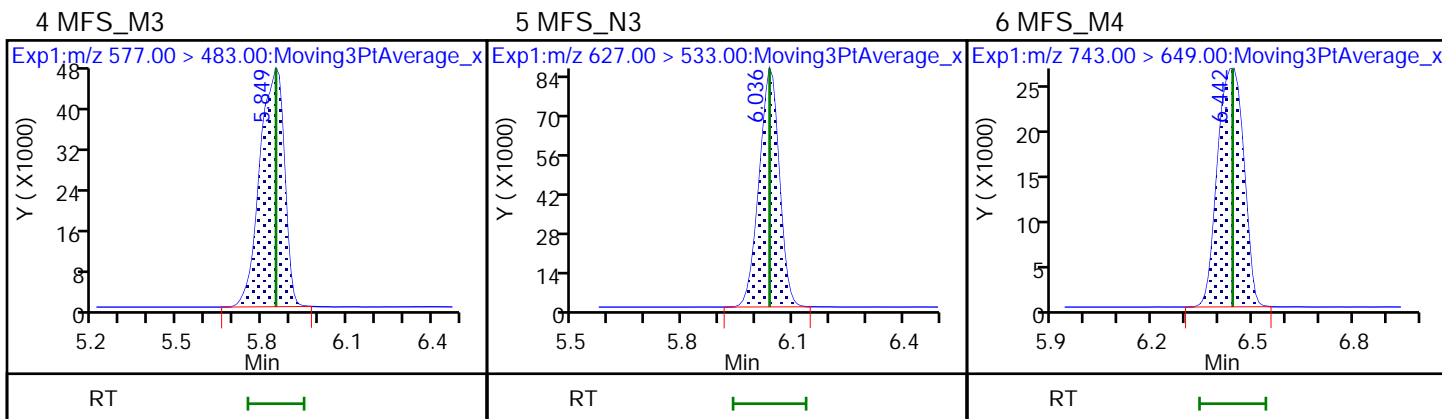
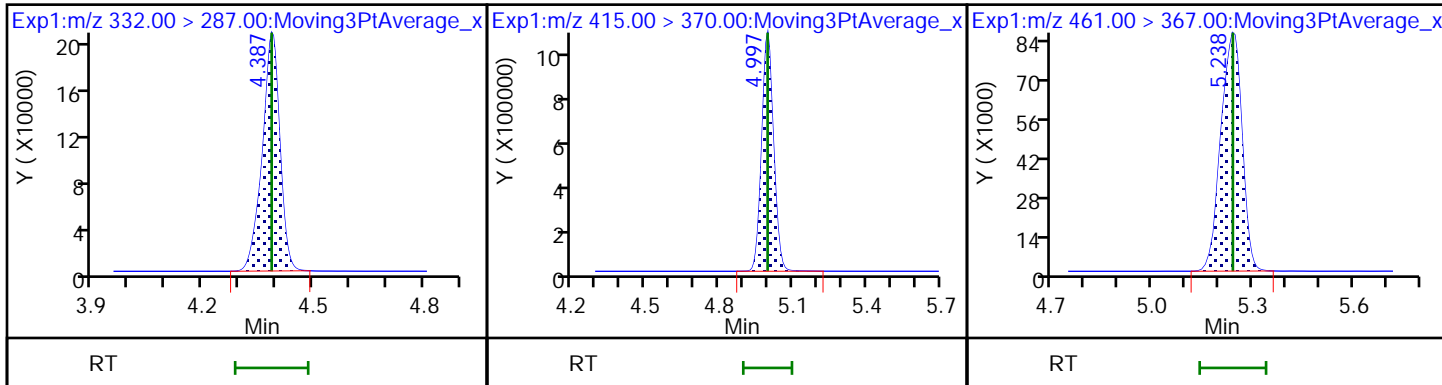
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 05-Aug-2022 09:31:03 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:38 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.384	4.387	-0.003	0.878	625747	4.81	96.2	2565
* 2 13C2 PFOA	415.00 > 370.00	4.991	4.996	-0.005		3222764	5.00		4580
3 MFS_N2	461.00 > 367.00	5.235	5.239	-0.004	1.194	1780473	5.28	110	15275
4 MFS_M3	577.00 > 483.00	5.843	5.849	-0.006	1.333	1370537	5.33	108	2789
5 MFS_N3	627.00 > 533.00	6.030	6.036	-0.006	1.375	1550403	5.24	105	4929
6 MFS_M4	743.00 > 649.00	6.436	6.439	-0.003	1.468	696263	5.29	108	4138
7 MFS_N4	793.00 > 699.00	6.558	6.565	-0.007	1.496	836694	5.61	113	5907
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.583	840493	5.44	108	7952

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-08.d

Injection Date: 05-Aug-2022 09:31:03

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

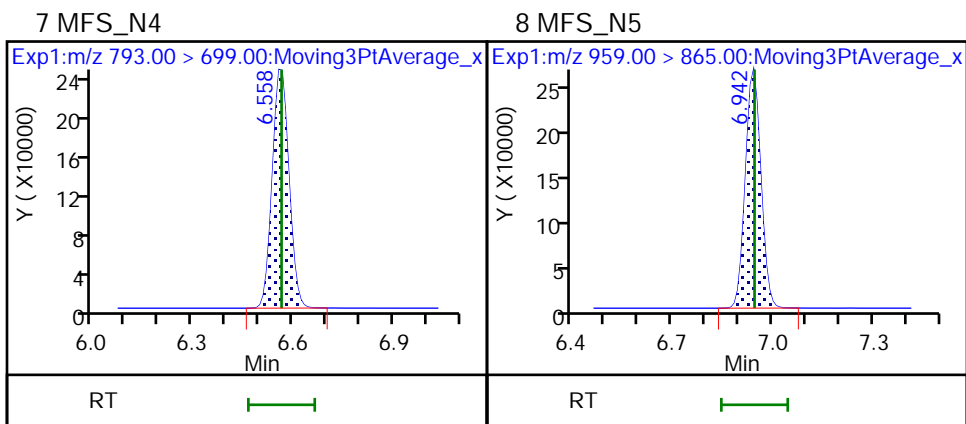
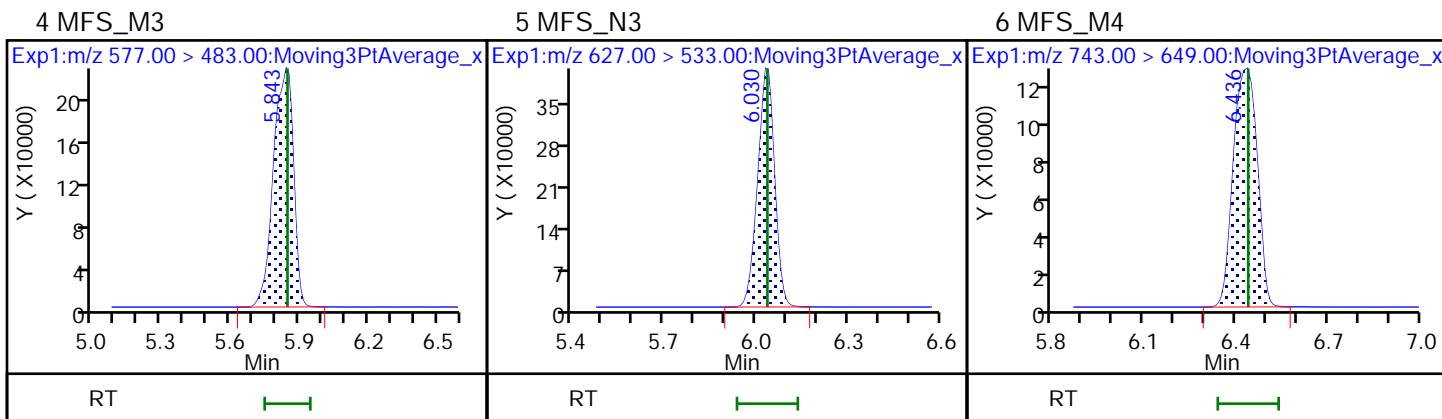
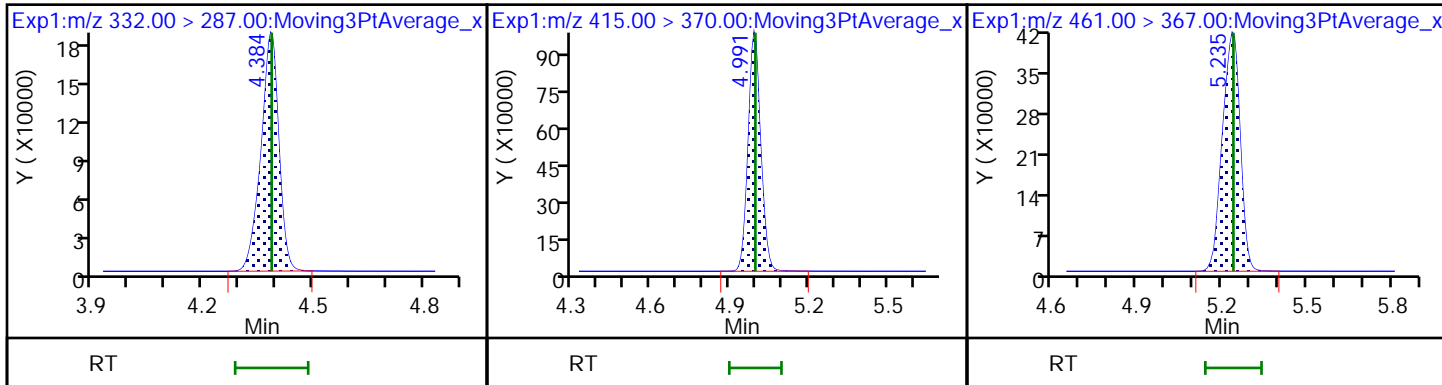
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 05-Aug-2022 09:43:40 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:48

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									
332.00 > 287.00	4.385	4.387	-0.002	0.879	678213	5.06	101	2556	
* 2 13C2 PFOA									
415.00 > 370.00	4.992	4.996	-0.004		3317293	5.00		4716	
3 MFS_N2									
461.00 > 367.00	5.236	5.239	-0.003	1.194	3848185	10.6	110	21415	
4 MFS_M3									
577.00 > 483.00	5.844	5.849	-0.005	1.333	2924780	10.6	107	3270	
5 MFS_N3									
627.00 > 533.00	6.031	6.036	-0.005	1.375	3431578	10.7	107	5275	
6 MFS_M4									
743.00 > 649.00	6.436	6.439	-0.003	1.467	1527454	10.8	110	5013	
7 MFS_N4									
793.00 > 699.00	6.566	6.565	0.001	1.497	1648528	10.3	103	6095	
8 MFS_N5									
959.00 > 865.00	6.946	6.944	0.002	1.584	1789253	10.7	106	10413	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-09.d

Injection Date: 05-Aug-2022 09:43:40

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

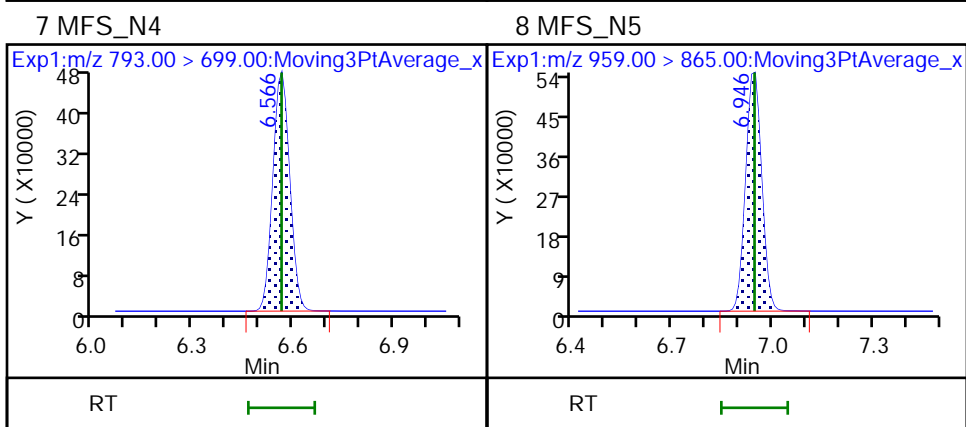
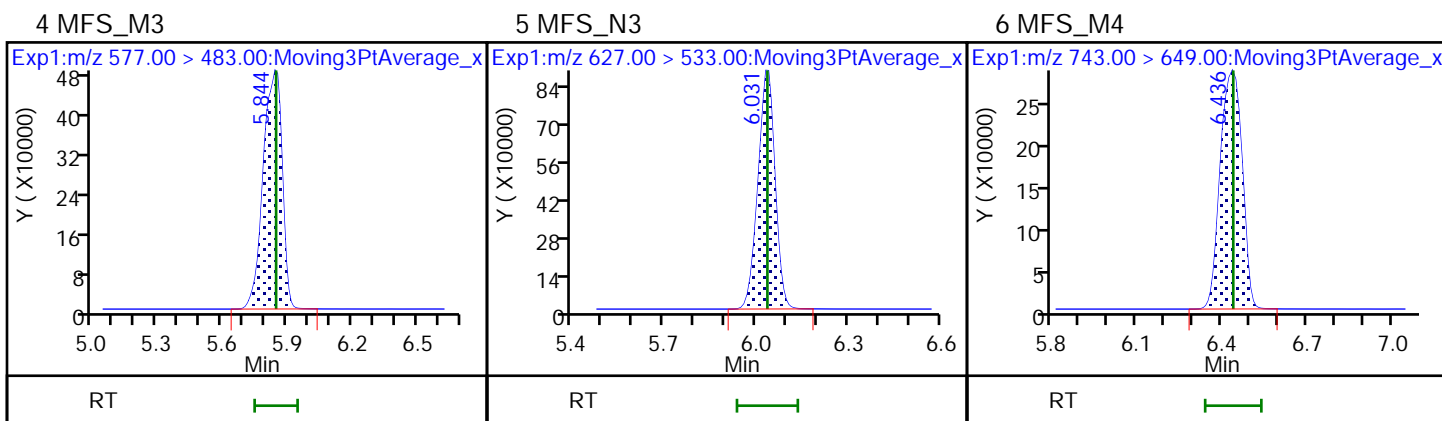
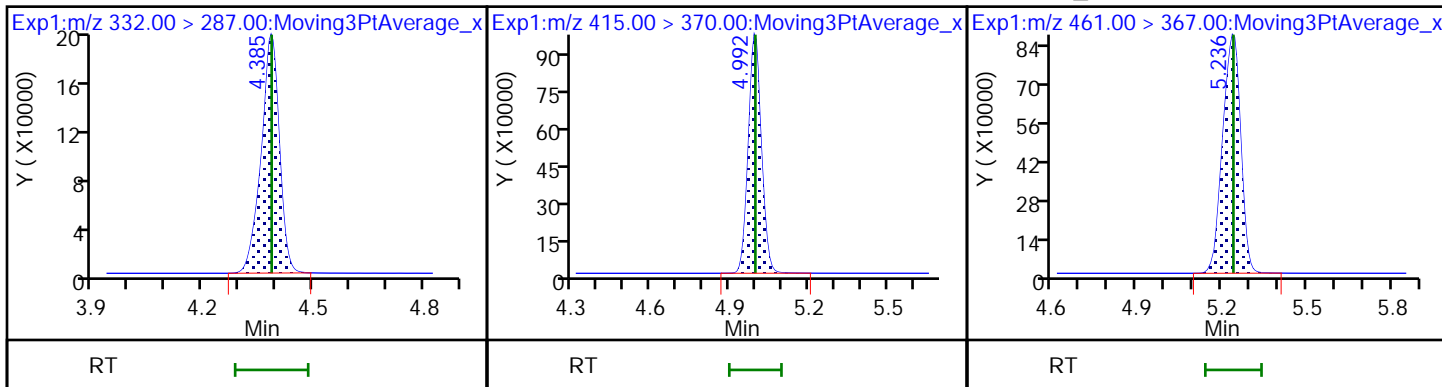
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 05-Aug-2022 09:56:17 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:39 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 10:22:53

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.388	4.387	0.001	0.878	620002	4.93	98.7	2415
* 2 13C2 PFOA	415.00 > 370.00	4.997	4.996	0.001		3111884	5.00		4706
3 MFS_N2	461.00 > 367.00	5.238	5.239	-0.001	1.194	8499793	25.8	107	25356
4 MFS_M3	577.00 > 483.00	5.848	5.849	-0.001	1.333	6548749	26.0	106	3823
5 MFS_N3	627.00 > 533.00	6.035	6.036	-0.001	1.375	7657320	26.3	105	5918
6 MFS_M4	743.00 > 649.00	6.442	6.439	0.003	1.468	3392053	26.3	107	5897
7 MFS_N4	793.00 > 699.00	6.564	6.565	-0.001	1.496	3483893	23.9	96.1	6490
8 MFS_N5	959.00 > 865.00	6.947	6.944	0.003	1.583	3703732	24.3	96.2	10962

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-10.d

Injection Date: 05-Aug-2022 09:56:17

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

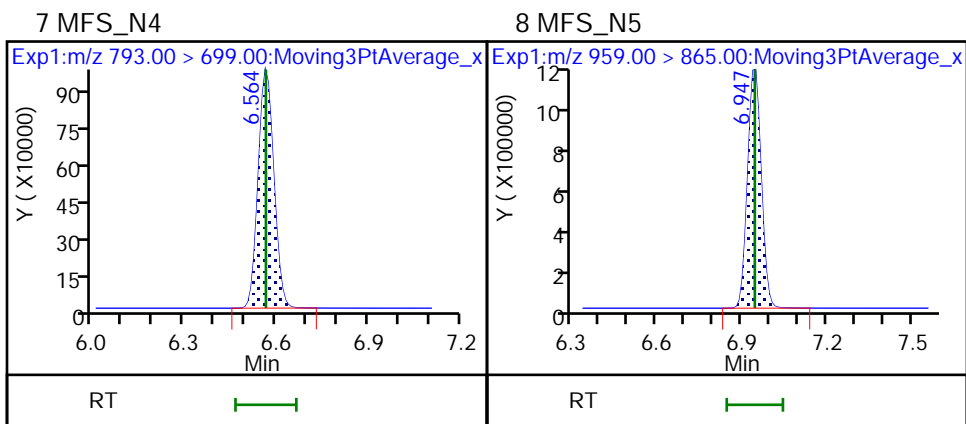
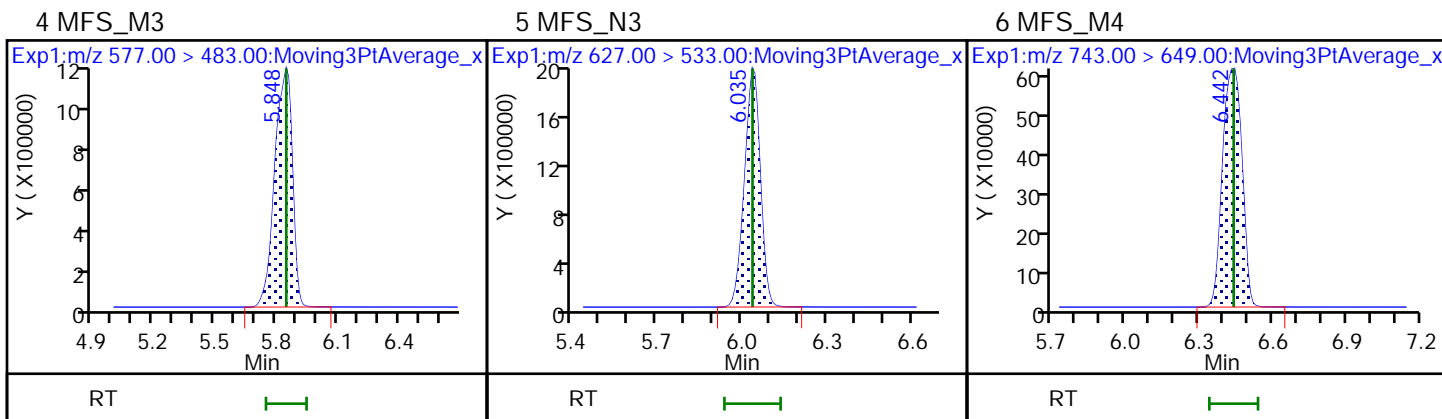
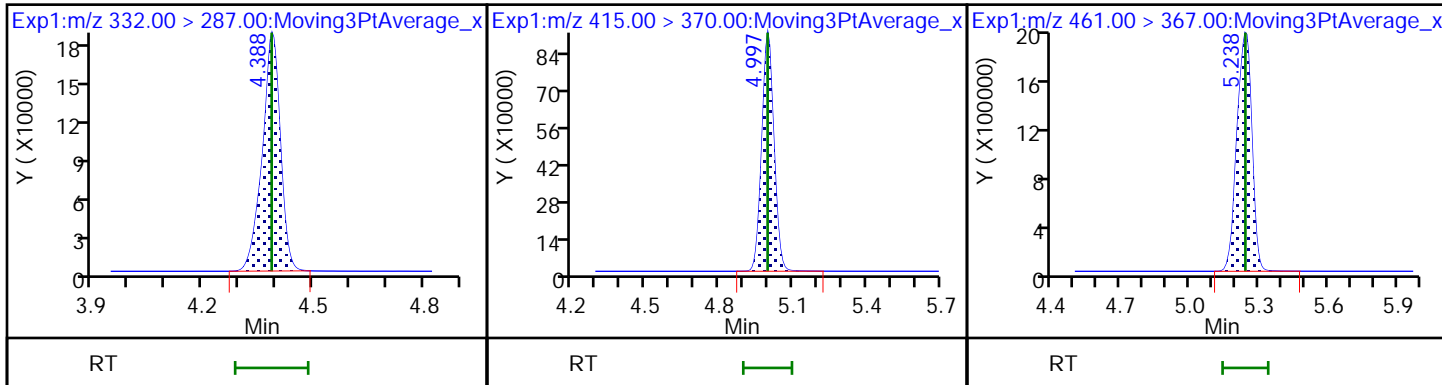
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 05-Aug-2022 10:08:54 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.387	0.002	0.878	704345	5.21	104	2940
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.996	0.002		3345907	5.00		5056
3 MFS_N2	461.00 > 367.00	5.242	5.239	0.003	1.194	16896802	45.1	93.7	30163
4 MFS_M3	577.00 > 483.00	5.854	5.849	0.005	1.334	13354811	46.8	95.0	4061
5 MFS_N3	627.00 > 533.00	6.039	6.036	0.003	1.376	15833576	47.9	95.7	8974
6 MFS_M4	743.00 > 649.00	6.437	6.439	-0.002	1.467	6755284	46.1	93.9	5470
7 MFS_N4	793.00 > 699.00	6.567	6.565	0.002	1.496	6411636	38.8	78.0	9007
8 MFS_N5	959.00 > 865.00	6.942	6.944	-0.002	1.582	6790396	39.2	77.6	10490

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Injection Date: 05-Aug-2022 10:08:54

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

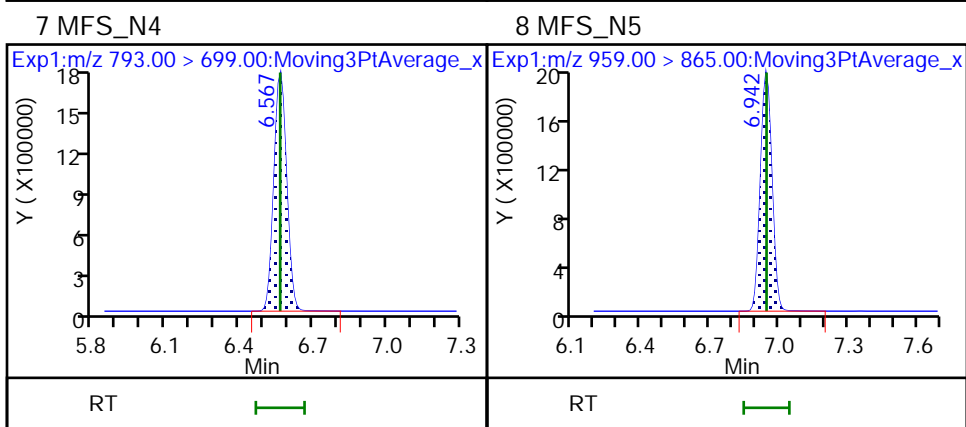
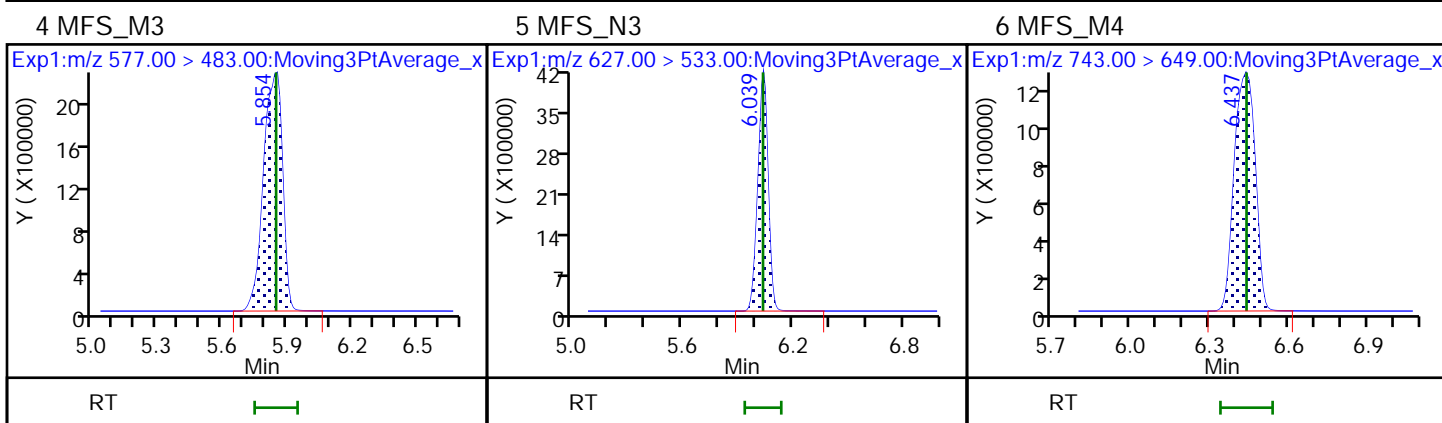
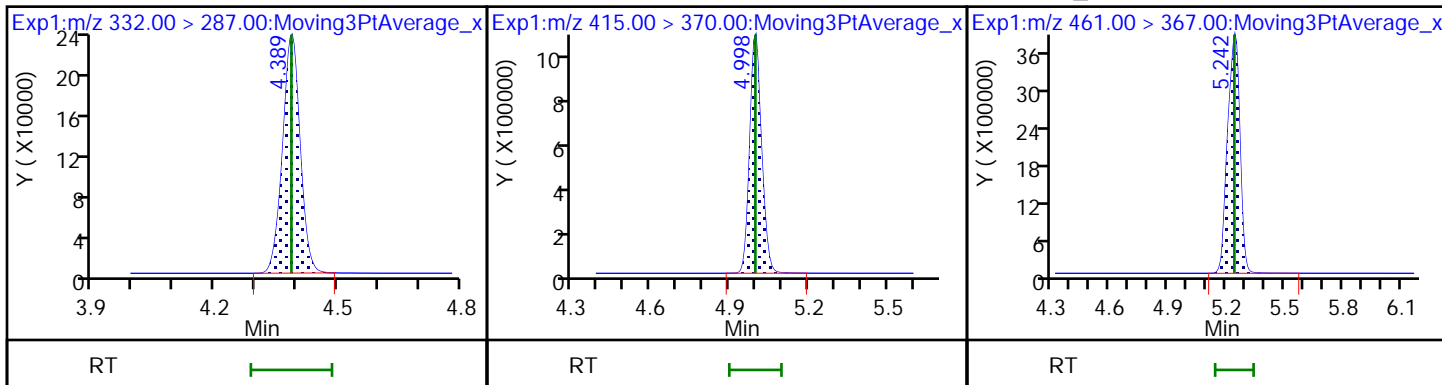
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Calibration

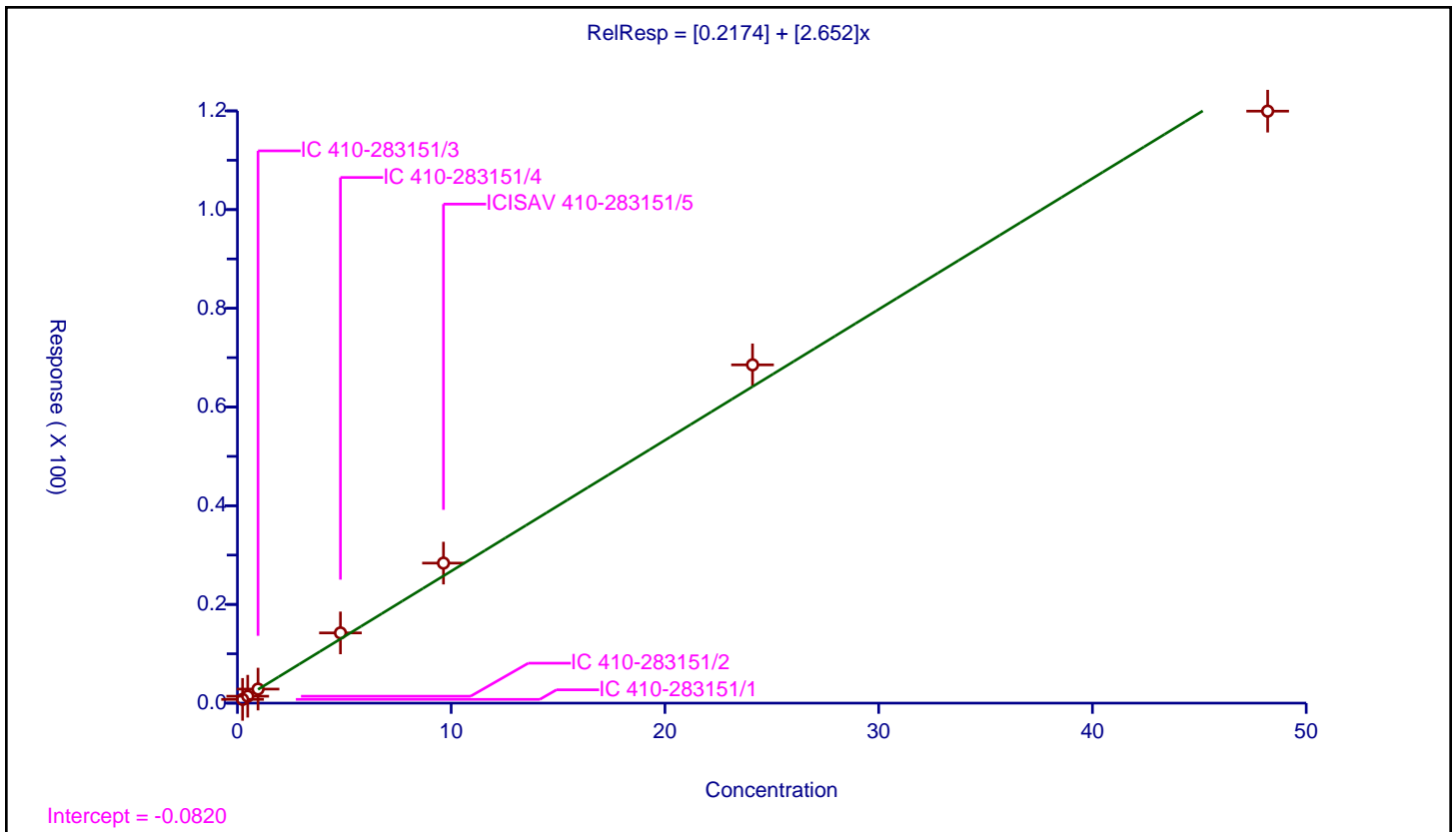
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Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2174
Slope:	2.652

Error Coefficients	
Standard Error:	8670000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.240983	0.756999	5.0	630232.0	3.141298	Y
2	IC 410-283151/2	0.481966	1.39811	5.0	688476.0	2.900849	Y
3	IC 410-283151/3	0.963932	2.849074	5.0	664135.0	2.955681	Y
4	IC 410-283151/4	4.819658	14.22678	5.0	625747.0	2.951824	Y
5	ICISAV 410-283151/5	9.639316	28.370033	5.0	678213.0	2.943158	Y
6	IC 410-283151/6	24.098289	68.546497	5.0	620002.0	2.844455	Y
7	IC 410-283151/7	48.196578	119.946915	5.0	704345.0	2.488702	Y



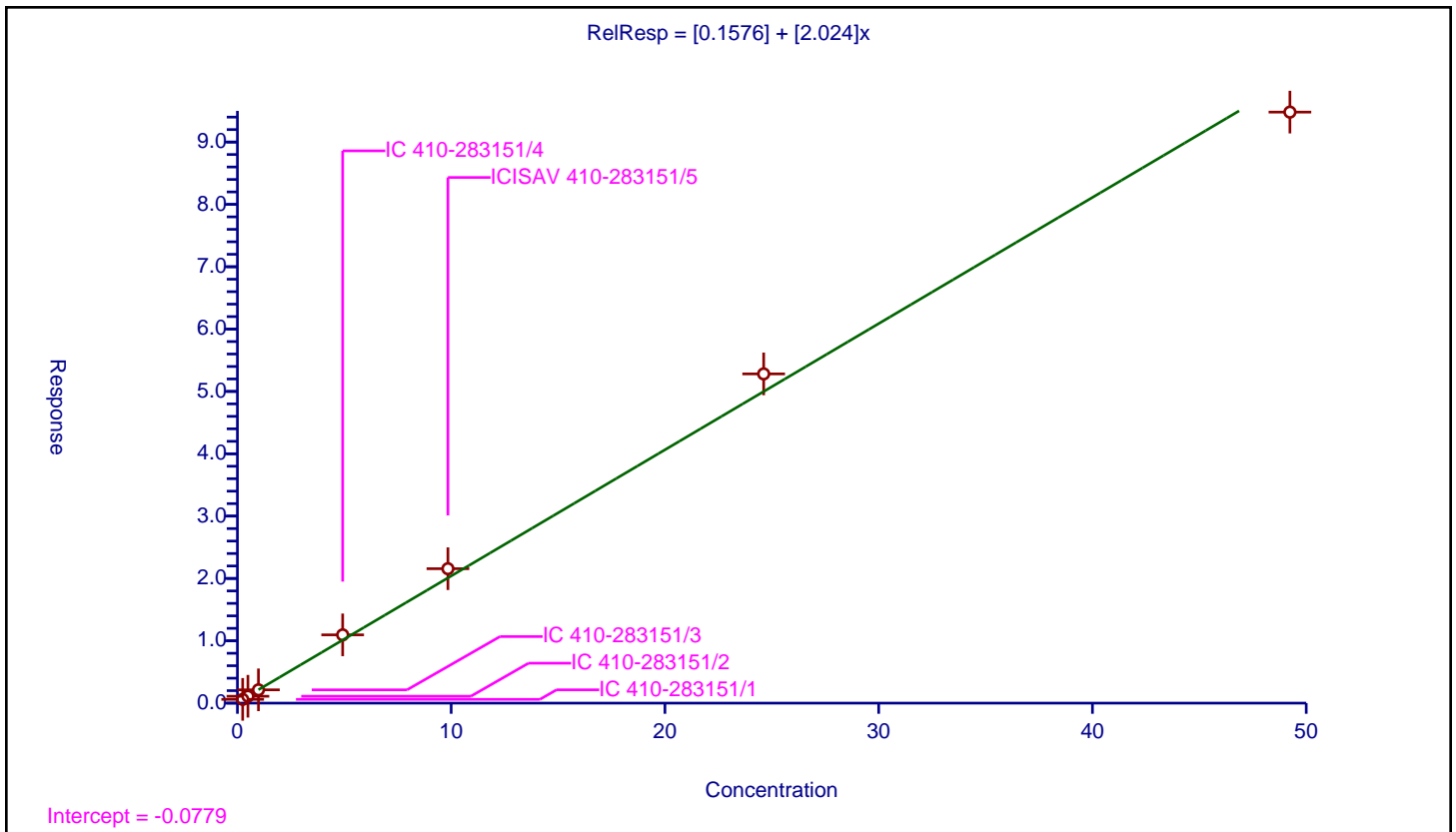
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1576
Slope:	2.024

Error Coefficients	
Standard Error:	6810000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.246191	0.603333	5.0	630232.0	2.450668	Y
2	IC 410-283151/2	0.492383	1.104897	5.0	688476.0	2.243979	Y
3	IC 410-283151/3	0.984766	2.133279	5.0	664135.0	2.166281	Y
4	IC 410-283151/4	4.923828	10.951207	5.0	625747.0	2.224125	Y
5	ICISAV 410-283151/5	9.847656	21.5624	5.0	678213.0	2.189597	Y
6	IC 410-283151/6	24.619141	52.812322	5.0	620002.0	2.145173	Y
7	IC 410-283151/7	49.238282	94.803051	5.0	704345.0	1.925393	Y



Calibration

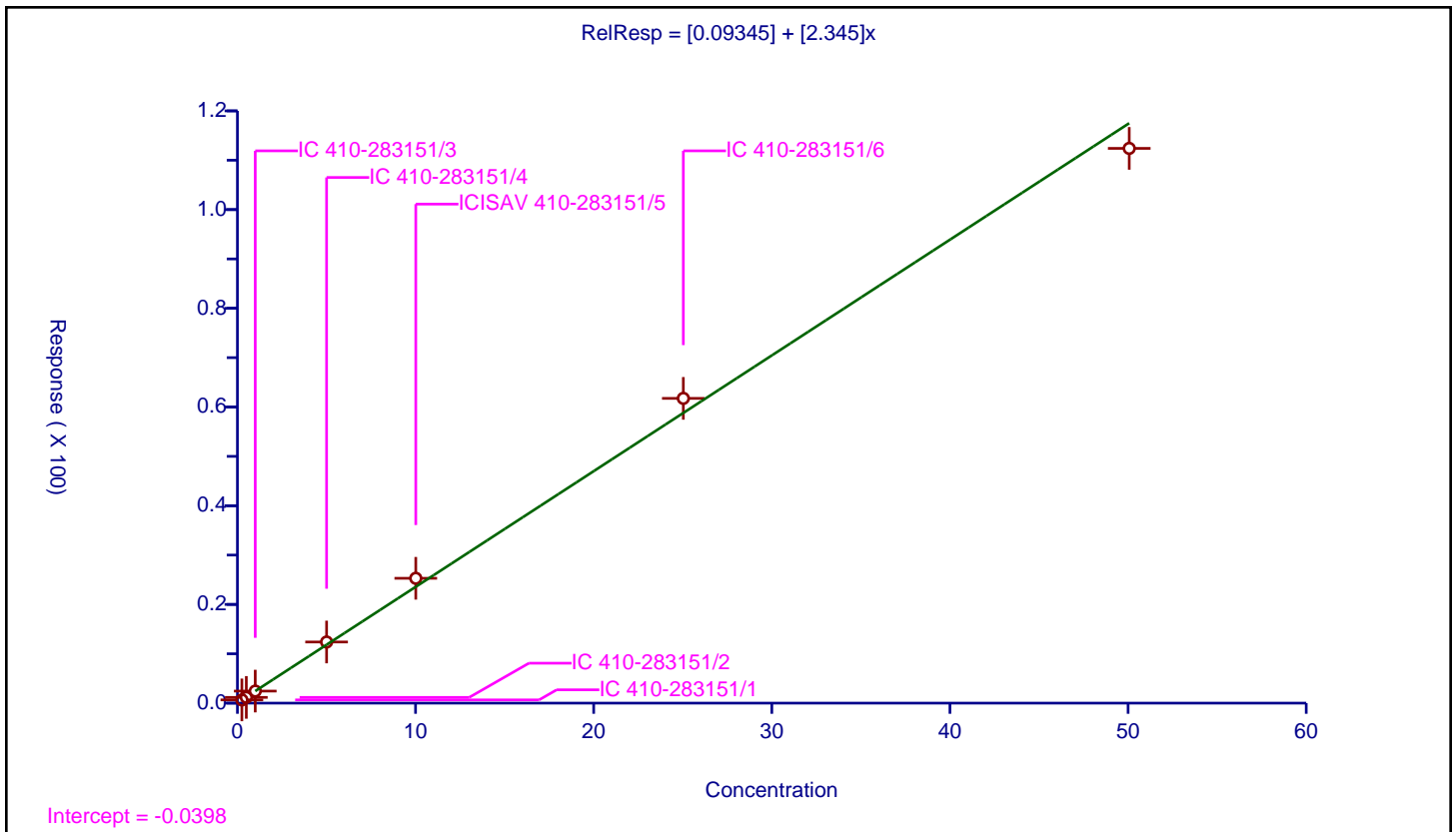
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.09345
Slope:	2.345

Error Coefficients	
Standard Error:	8050000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.250322	0.656718	5.0	630232.0	2.623493	Y
2	IC 410-283151/2	0.500644	1.164303	5.0	688476.0	2.32561	Y
3	IC 410-283151/3	1.001289	2.444247	5.0	664135.0	2.441101	Y
4	IC 410-283151/4	5.006444	12.388417	5.0	625747.0	2.474494	Y
5	ICISAV 410-283151/5	10.012888	25.298675	5.0	678213.0	2.526611	Y
6	IC 410-283151/6	25.03222	61.752381	5.0	620002.0	2.466916	Y
7	IC 410-283151/7	50.064439	112.399293	5.0	704345.0	2.245092	Y



Calibration

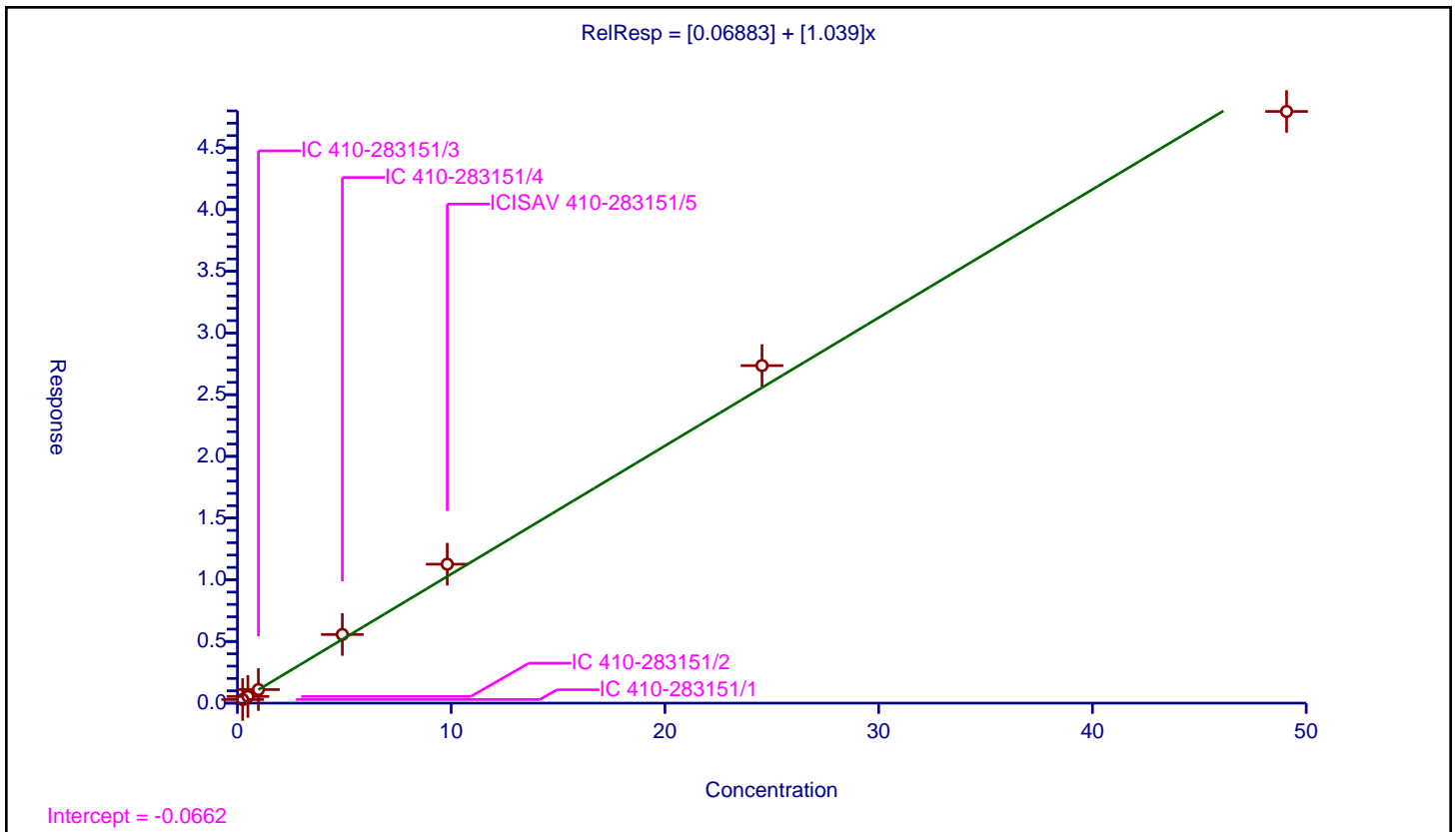
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Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06883
Slope:	1.039

Error Coefficients	
Standard Error:	3460000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.245407	0.293487	5.0	630232.0	1.195919	Y
2	IC 410-283151/2	0.490814	0.540317	5.0	688476.0	1.100857	Y
3	IC 410-283151/3	0.981629	1.10001	5.0	664135.0	1.120597	Y
4	IC 410-283151/4	4.908144	5.563455	5.0	625747.0	1.133515	Y
5	ICISAV 410-283151/5	9.816288	11.260872	5.0	678213.0	1.147162	Y
6	IC 410-283151/6	24.540719	27.355178	5.0	620002.0	1.114685	Y
7	IC 410-283151/7	49.081438	47.954369	5.0	704345.0	0.977037	Y



Calibration

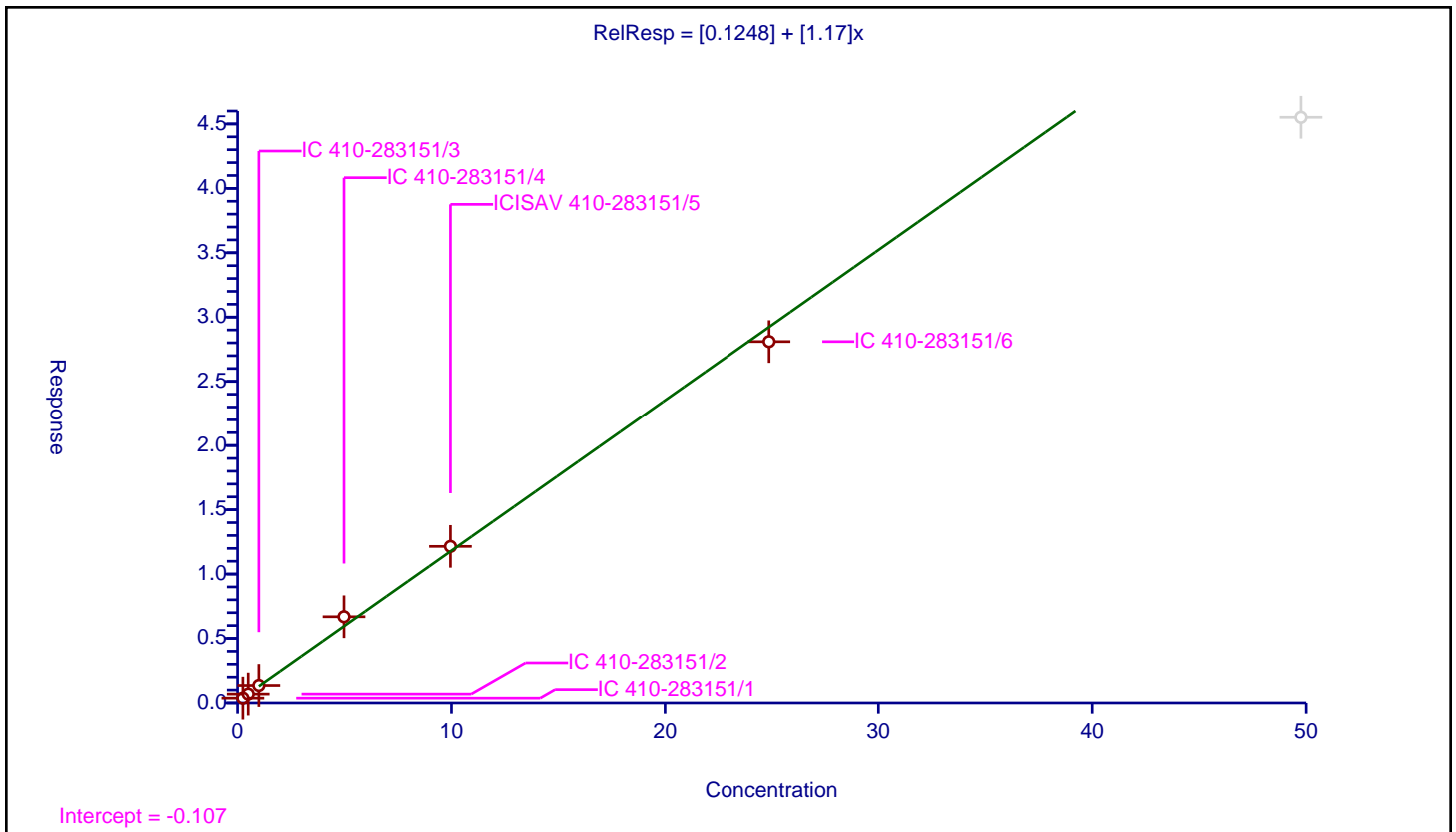
/ MFS_N4

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1248
Slope:	1.17

Error Coefficients	
Standard Error:	1970000
Relative Standard Error:	10.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.248788	0.373839	5.0	630232.0	1.502639	Y
2	IC 410-283151/2	0.497576	0.68733	5.0	688476.0	1.381356	Y
3	IC 410-283151/3	0.995152	1.354574	5.0	664135.0	1.361173	Y
4	IC 410-283151/4	4.975759	6.685561	5.0	625747.0	1.343626	Y
5	ICISAV 410-283151/5	9.951518	12.153468	5.0	678213.0	1.221268	Y
6	IC 410-283151/6	24.878795	28.095821	5.0	620002.0	1.129308	Y
7	IC 410-283151/7	49.75759	45.514883	5.0	704345.0	0.914732	N



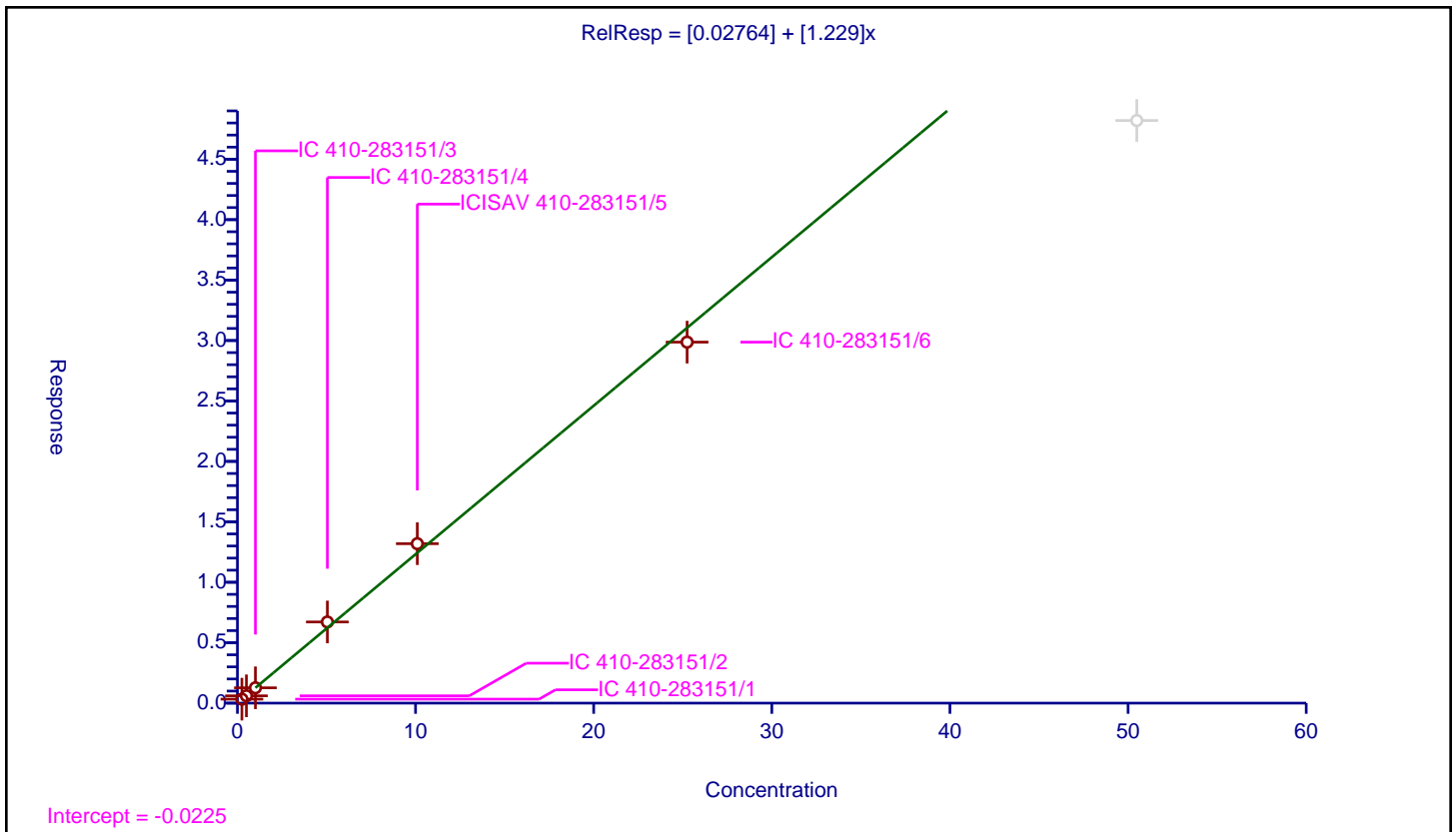
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.02764
Slope:	1.229

Error Coefficients	
Standard Error:	2100000
Relative Standard Error:	6.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-283151/1	0.252449	0.3288	5.0	630232.0	1.302441	Y
2	IC 410-283151/2	0.504897	0.603848	5.0	688476.0	1.195982	Y
3	IC 410-283151/3	1.009795	1.268876	5.0	664135.0	1.256569	Y
4	IC 410-283151/4	5.048973	6.715917	5.0	625747.0	1.330155	Y
5	ICISAV 410-283151/5	10.097945	13.190937	5.0	678213.0	1.306299	Y
6	IC 410-283151/6	25.244863	29.86871	5.0	620002.0	1.18316	Y
7	IC 410-283151/7	50.489726	48.203622	5.0	704345.0	0.954721	N



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 285701

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2022 22:21 Calibration End Date: 08/13/2022 23:38 Calibration ID: 41717

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285701/1	22AUG13MFS-01.d
Level 2	IC 410-285701/2	22AUG13MFS-02.d
Level 3	IC 410-285701/3	22AUG13MFS-03.d
Level 4	IC 410-285701/4	22AUG13MFS-04.d
Level 5	ICISAV 410-285701/5	22AUG13MFS-05.d
Level 6	IC 410-285701/6	22AUG13MFS-06.d
Level 7	IC 410-285701/7	22AUG13MFS-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
MFS_N2	2.8899 2.6560	2.8265 2.5054	2.8636	2.7226	2.8299	L1ID	0.154 1	2.588 2						0.9980		0.9900	
MFS_M3	2.4560 2.1081	2.2366 1.9309	2.2107	2.1486	2.1523	L1ID	0.157 8	2.009 1						0.9980		0.9900	
MFS_N3	2.5589 2.3934	2.3949 2.2541	2.5320	2.4488	2.5192	L1ID	0.109 7	2.327 9						0.9980		0.9900	
MFS_M4	1.2469 1.1327	1.1904 1.0611	1.2133	1.1785	1.1906	L1ID	0.069 8	1.098 6						0.9980		0.9900	
MFS_N4	1.4991 1.1647	1.4444 1.0092	1.4841	1.4110	1.3448	Q2ID	0.015 0	1.440 2	-0.009143					0.9990		0.9900	
MFS_N5	1.3111 1.2555	1.2276 1.0811	1.2862	1.3075	1.3578	Q2ID	-0.01 8	1.341 1	-0.004609					0.9980		0.9900	
13C3 HFPO-DA	0.2049 0.1979	0.2008 0.2015	0.1961	0.2002	0.2035	Ave		0.200 7			1.5						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 285701

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2022 22:21 Calibration End Date: 08/13/2022 23:38 Calibration ID: 41717

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285701/1	22AUG13MFS-01.d
Level 2	IC 410-285701/2	22AUG13MFS-02.d
Level 3	IC 410-285701/3	22AUG13MFS-03.d
Level 4	IC 410-285701/4	22AUG13MFS-04.d
Level 5	ICISAV 410-285701/5	22AUG13MFS-05.d
Level 6	IC 410-285701/6	22AUG13MFS-06.d
Level 7	IC 410-285701/7	22AUG13MFS-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
MFS_N2		L1ID	91519 8240362	174125 15359121	355366	1675962	3497876	0.241 24.1	0.482 48.2	0.964	4.82	9.64
MFS_M3		L1ID	79460 6681820	140761 12093199	280274	1351229	2717819	0.246 24.6	0.492 49.2	0.985	4.92	9.85
MFS_N3		L1ID	84177 7713433	153252 14354222	326394	1565853	3234450	0.250 25.0	0.501 50.1	1.00	5.01	10.0
MFS_M4		L1ID	40211 3578766	74678 6624550	153334	738796	1498588	0.245 24.5	0.491 49.1	0.982	4.91	9.82
MFS_N4		Q2ID	49013 3730419	91860 6387175	190139	896677	1716107	0.249 24.9	0.498 49.8	0.995	4.98	9.95
MFS_N5		Q2ID	43497 4080524	79221 6942882	167212	843156	1758092	0.252 25.2	0.505 50.5	1.01	5.05	10.1
13C3 HFPO-DA	13PF OA	Ave	657068 643717	639092 635978	643708	638605	641139	5.00 5.00	5.00 5.00	5.00	5.00	5.00

Curve Type Legend

Ave = Average ISTD
L1ID = Linear 1/conc IsoDil
Q2ID = Quadratic 1/conc^2 IsoDil

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-91186-1 Analy Batch No.: 285701

SDG No.: _____

Instrument ID: 30733 GC Column: Gemini C18 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2022 22:21 Calibration End Date: 08/13/2022 23:38 Calibration ID: 41717

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-285701/1	22AUG13MFS-01.d
Level 2	IC 410-285701/2	22AUG13MFS-02.d
Level 3	IC 410-285701/3	22AUG13MFS-03.d
Level 4	IC 410-285701/4	22AUG13MFS-04.d
Level 5	ICISAV 410-285701/5	22AUG13MFS-05.d
Level 6	IC 410-285701/6	22AUG13MFS-06.d
Level 7	IC 410-285701/7	22AUG13MFS-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
MFS_N2	-13.1 -3.3	-3.1	4.5	4.0	8.7	2.4	50 30	30	30	30	30	30
MFS_M3	-9.7 -4.1	-4.6	2.1	5.3	6.3	4.6	50 30	30	30	30	30	30
MFS_N3	-8.9 -3.3	-6.5	4.1	4.3	7.7	2.6	50 30	30	30	30	30	30
MFS_M4	-12.4 -3.5	-4.6	4.0	6.0	7.7	2.8	50 30	30	30	30	30	30
MFS_N4	0.1 4.6	-1.5	2.7	1.0	-0.5	-4.9	50 30	30	30	30	30	30
MFS_N5	3.3 -3.0	-5.6	-2.4	-0.5	5.2	2.8	50 30	30	30	30	30	30
13C3 HFPO-DA	2.1						30					

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-01.d
 Lims ID: IC CAL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 13-Aug-2022 22:21:14 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 1
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:14 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:09:24

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.358	4.349	0.009	0.878	657068	5.10	102	644
* 2 13C2 PFOA	415.00 > 370.00	4.963	4.954	0.009		3207351	5.00		923
3 MFS_N2	461.00 > 367.00	5.206	5.199	0.007	1.195	91519	0.2095	86.9	688
4 MFS_M3	577.00 > 483.00	5.815	5.811	0.004	1.334	79460	0.2224	90.3	132
5 MFS_N3	627.00 > 533.00	6.002	5.997	0.005	1.377	84177	0.2280	91.1	379
6 MFS_M4	743.00 > 649.00	6.393	6.391	0.002	1.467	40211	0.2150	87.6	340
7 MFS_N4	793.00 > 699.00	6.519	6.517	0.002	1.496	49013	0.2490	100	226
8 MFS_N5	959.00 > 865.00	6.898	6.892	0.006	1.583	43497	0.2607	103	466

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-01.d

Injection Date: 13-Aug-2022 22:21:14

Instrument ID: 30733

Lims ID: IC CAL 1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

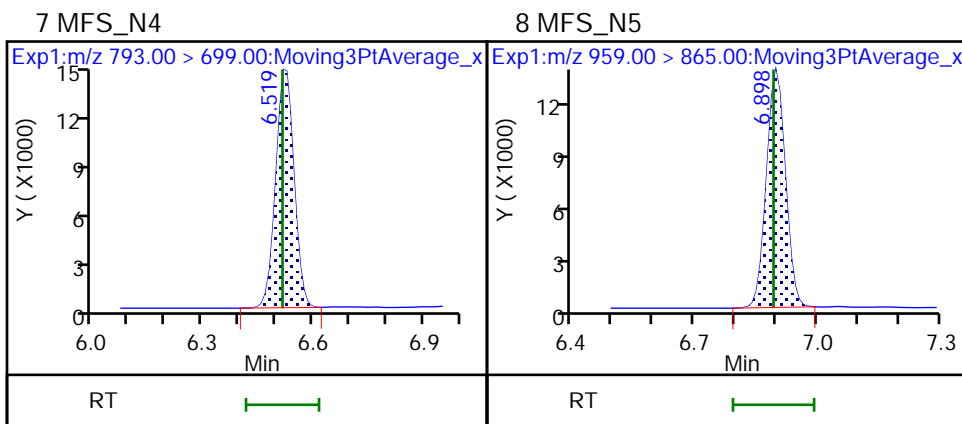
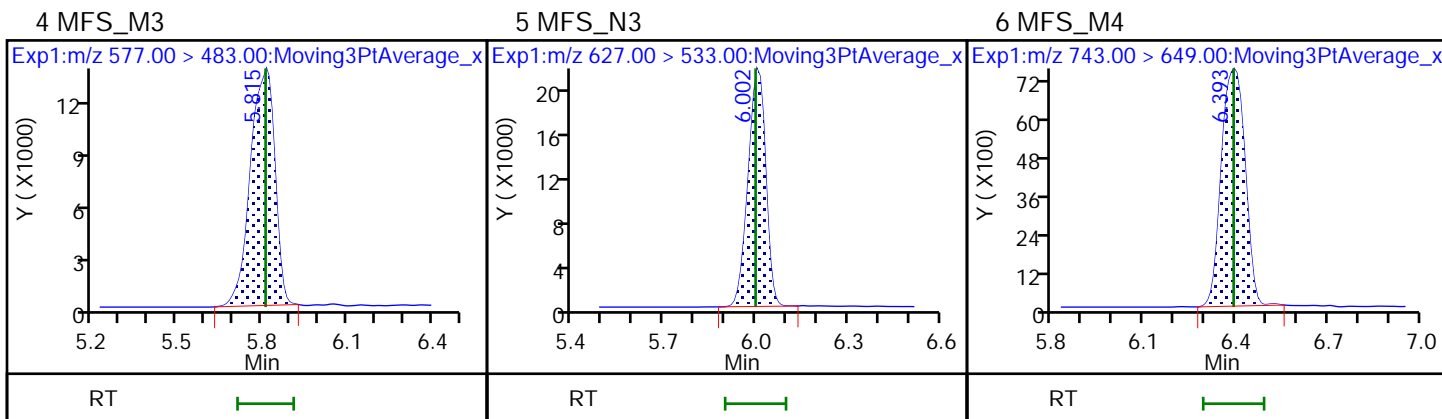
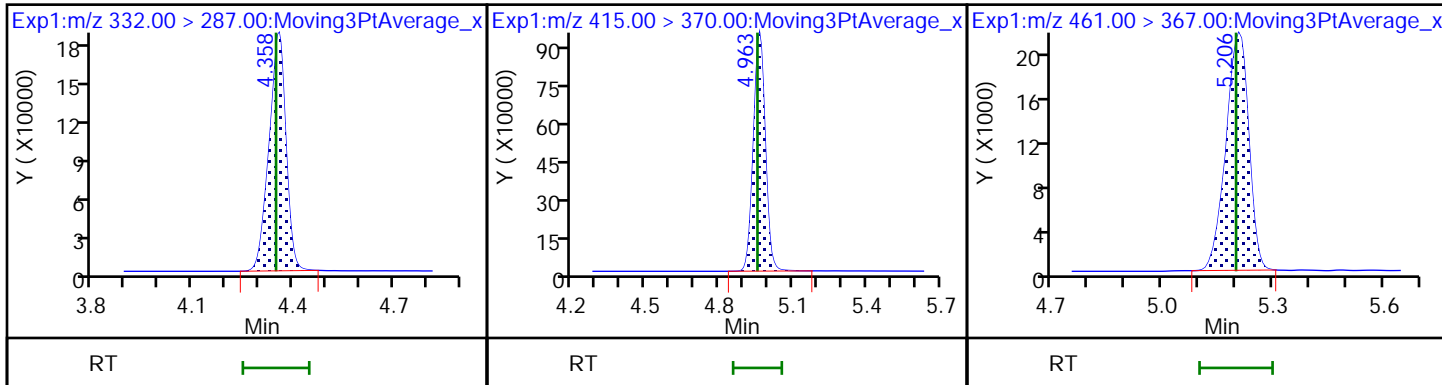
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-02.d
 Lims ID: IC CAL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 13-Aug-2022 22:35:15 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 2
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:15 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:09:29

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.353	4.349	0.004	0.877	639092	5.00	100	612
* 2 13C2 PFOA	415.00 > 370.00	4.961	4.954	0.007		3182908	5.00		864
3 MFS_N2	461.00 > 367.00	5.202	5.199	0.003	1.195	174125	0.4668	96.9	1214
4 MFS_M3	577.00 > 483.00	5.819	5.811	0.008	1.337	140761	0.4696	95.4	185
5 MFS_N3	627.00 > 533.00	6.006	5.997	0.009	1.380	153252	0.4679	93.5	438
6 MFS_M4	743.00 > 649.00	6.399	6.391	0.008	1.470	74678	0.4683	95.4	368
7 MFS_N4	793.00 > 699.00	6.526	6.517	0.009	1.499	91860	0.4901	98.5	334
8 MFS_N5	959.00 > 865.00	6.899	6.892	0.007	1.585	79221	0.4766	94.4	685

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS2_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-02.d

Injection Date: 13-Aug-2022 22:35:15

Instrument ID: 30733

Lims ID: IC CAL 2

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 3

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

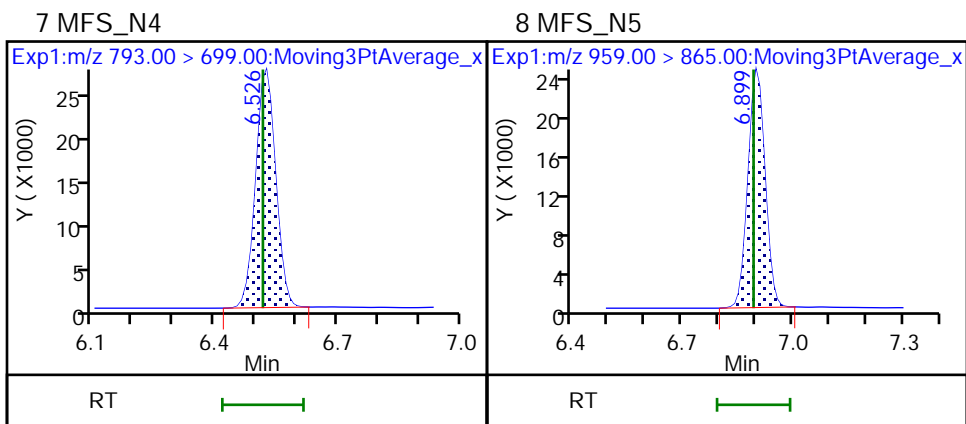
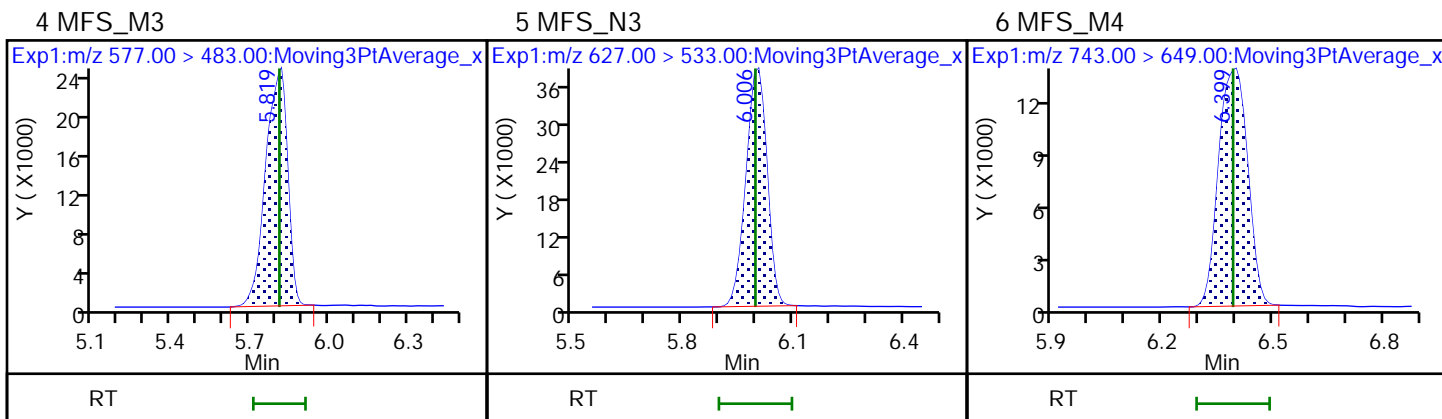
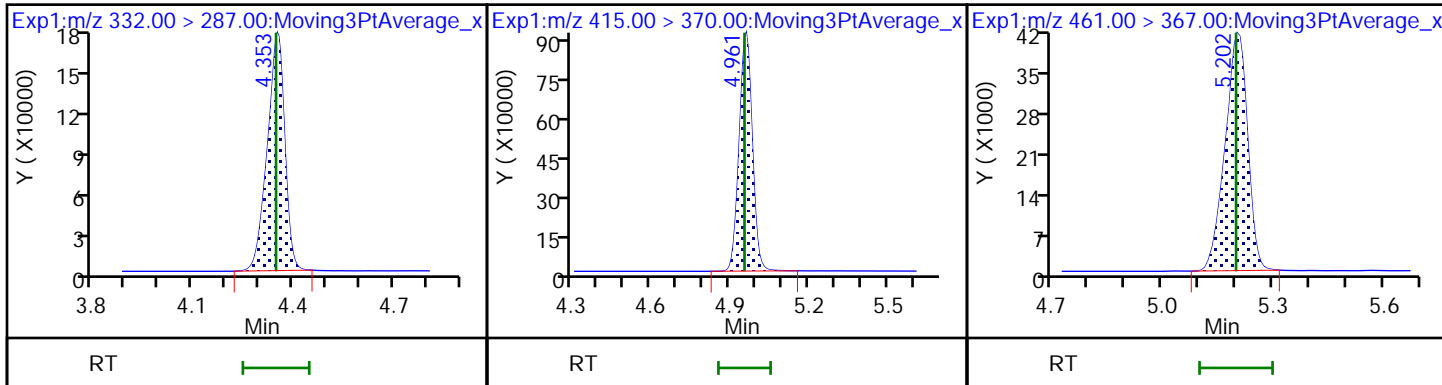
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-03.d
 Lims ID: IC CAL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 13-Aug-2022 22:47:49 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 3
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:16 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:09:34

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.355	4.349	0.006	0.879	643708	4.89	97.7	651
* 2 13C2 PFOA	415.00 > 370.00	4.956	4.954	0.002		3281783	5.00		914
3 MFS_N2	461.00 > 367.00	5.207	5.199	0.008	1.196	355366	1.01	104	2153
4 MFS_M3	577.00 > 483.00	5.817	5.811	0.006	1.336	280274	1.01	102	263
5 MFS_N3	627.00 > 533.00	6.004	5.997	0.007	1.379	326394	1.04	104	545
6 MFS_M4	743.00 > 649.00	6.397	6.391	0.006	1.469	153334	1.02	104	466
7 MFS_N4	793.00 > 699.00	6.523	6.517	0.006	1.498	190139	1.02	103	509
8 MFS_N5	959.00 > 865.00	6.897	6.892	0.005	1.584	167212	0.9855	97.6	849

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-03.d

Injection Date: 13-Aug-2022 22:47:49

Instrument ID: 30733

Lims ID: IC CAL 3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

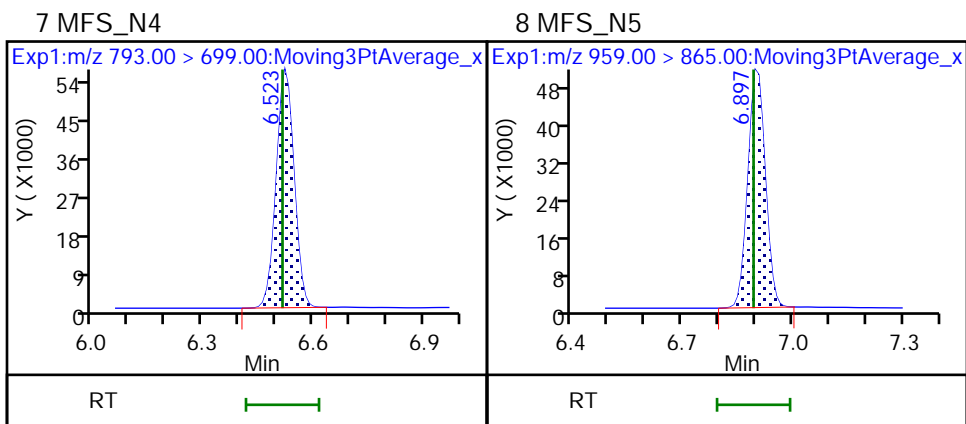
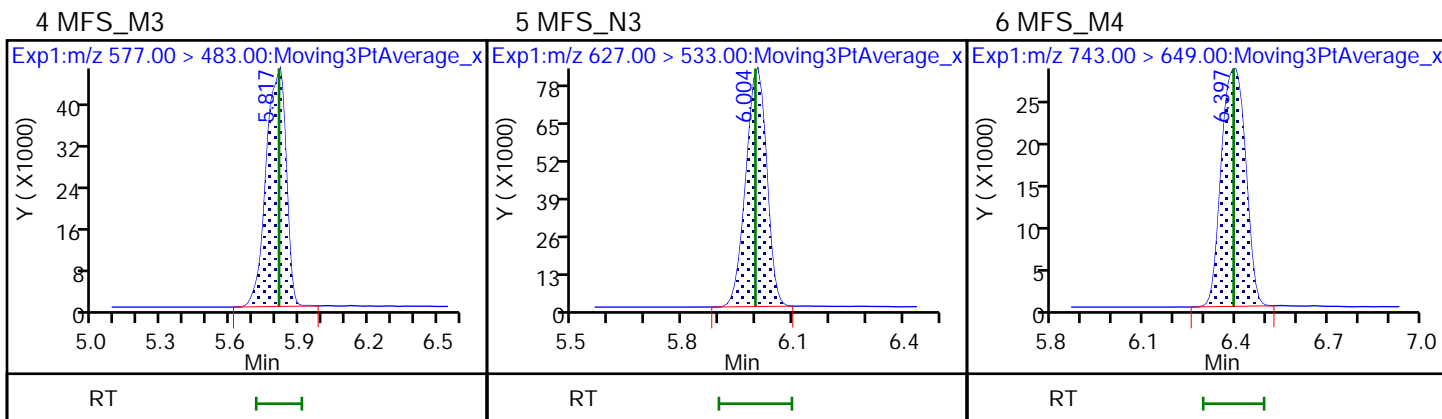
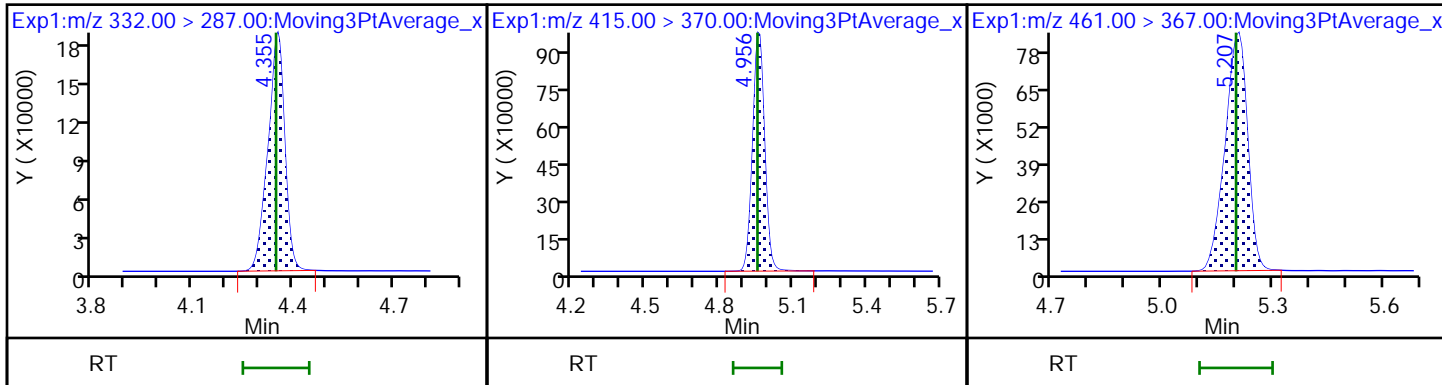
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-04.d
 Lims ID: IC CAL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 13-Aug-2022 23:00:23 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 4
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:16 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:09:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.341	4.349	-0.008	0.877	638605	4.99	99.7	651
* 2 13C2 PFOA	415.00 > 370.00	4.949	4.954	-0.005		3190060	5.00		892
3 MFS_N2	461.00 > 367.00	5.192	5.199	-0.007	1.196	1675962	5.01	104	6653
4 MFS_M3	577.00 > 483.00	5.806	5.811	-0.005	1.337	1351229	5.19	105	393
5 MFS_N3	627.00 > 533.00	5.991	5.997	-0.006	1.380	1565853	5.22	104	604
6 MFS_M4	743.00 > 649.00	6.386	6.391	-0.005	1.471	738796	5.20	106	517
7 MFS_N4	793.00 > 699.00	6.511	6.517	-0.006	1.500	896677	5.02	101	901
8 MFS_N5	959.00 > 865.00	6.884	6.892	-0.008	1.586	843156	5.02	99.5	1204

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS4_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-04.d

Injection Date: 13-Aug-2022 23:00:23

Instrument ID: 30733

Lims ID: IC CAL 4

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 5

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

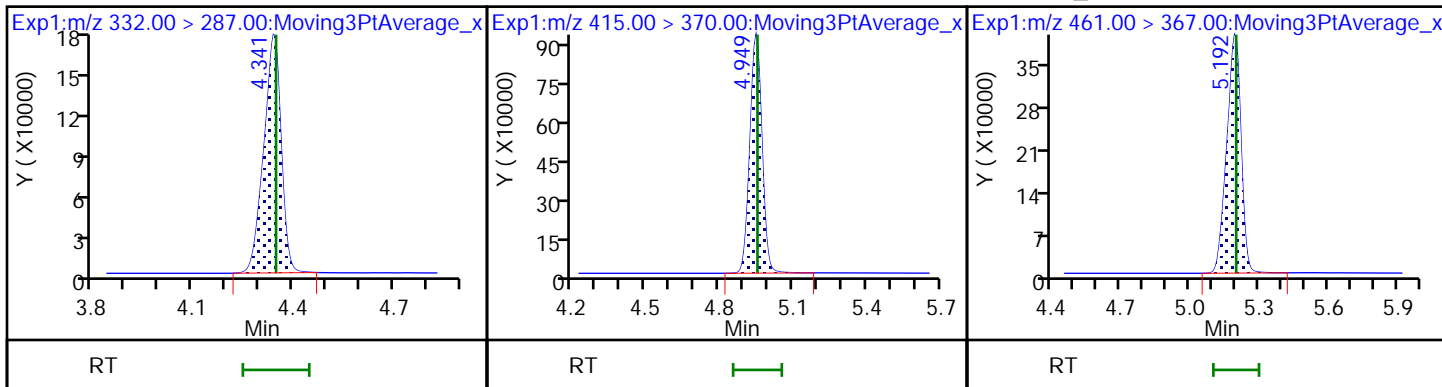
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

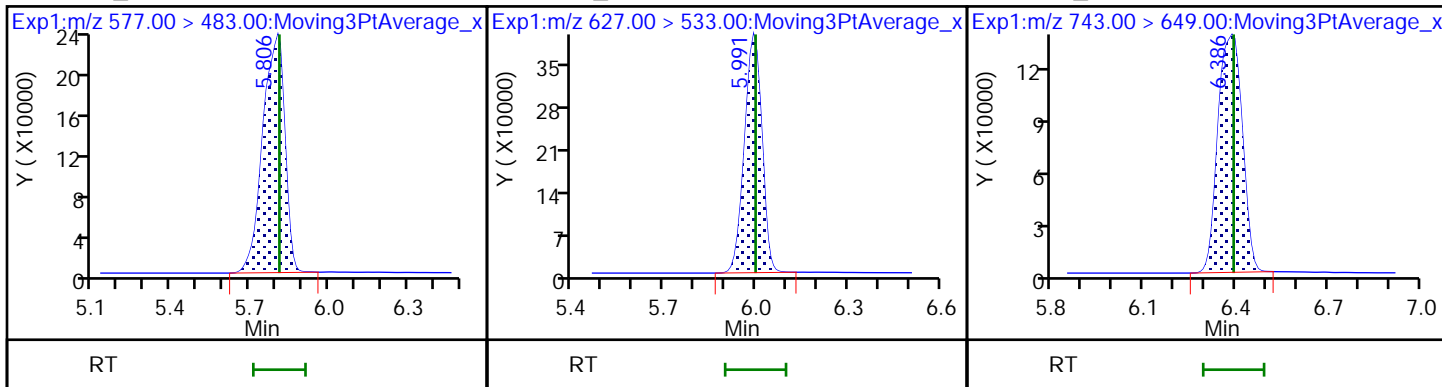
3 MFS_N2



4 MFS_M3

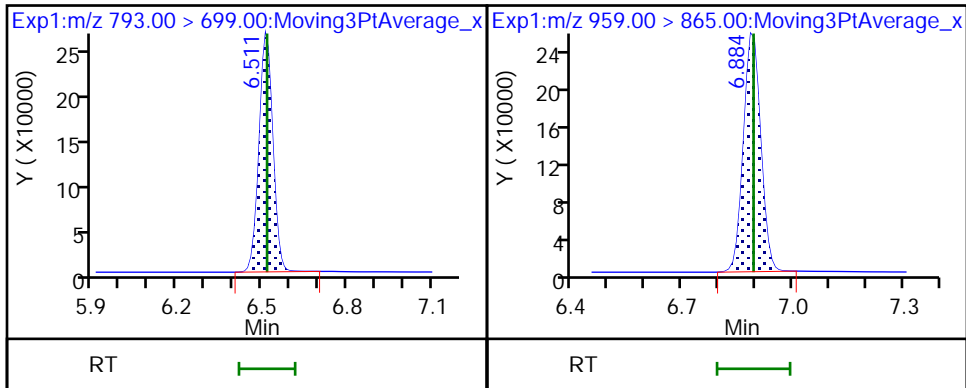
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-05.d
 Lims ID: ICISAV CAL 5
 Client ID:
 Sample Type: ICISAV Calib Level: 5
 Inject. Date: 13-Aug-2022 23:13:01 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV CAL 5
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-005
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:17 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:09:50

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA									
332.00 > 287.00	4.348	4.349	-0.001	0.878	641139	5.07	101	624	
* 2 13C2 PFOA									
415.00 > 370.00	4.954	4.954	0.0		3150163	5.00		883	
3 MFS_N2									
461.00 > 367.00	5.201	5.199	0.002	1.196	3497876	10.5	109	8830	
4 MFS_M3									
577.00 > 483.00	5.810	5.811	-0.001	1.336	2717819	10.5	106	408	
5 MFS_N3									
627.00 > 533.00	5.995	5.997	-0.002	1.379	3234450	10.8	108	632	
6 MFS_M4									
743.00 > 649.00	6.390	6.391	-0.001	1.470	1498588	10.6	108	551	
7 MFS_N4									
793.00 > 699.00	6.516	6.517	-0.001	1.498	1716107	9.91	99.5	704	
8 MFS_N5									
959.00 > 865.00	6.898	6.892	0.006	1.587	1758092	10.6	105	1446	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-05.d

Injection Date: 13-Aug-2022 23:13:01

Instrument ID: 30733

Lims ID: ICISAV CAL 5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 5

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

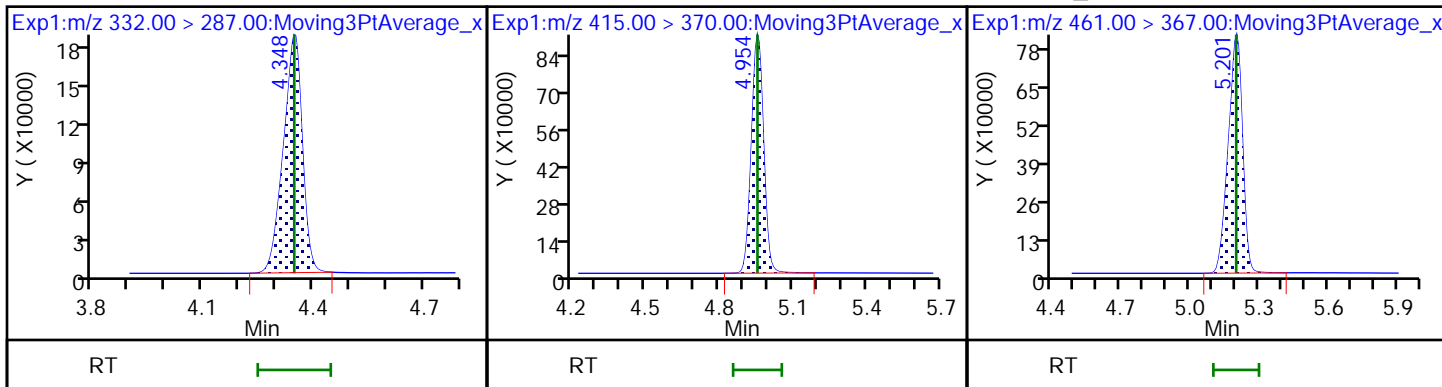
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

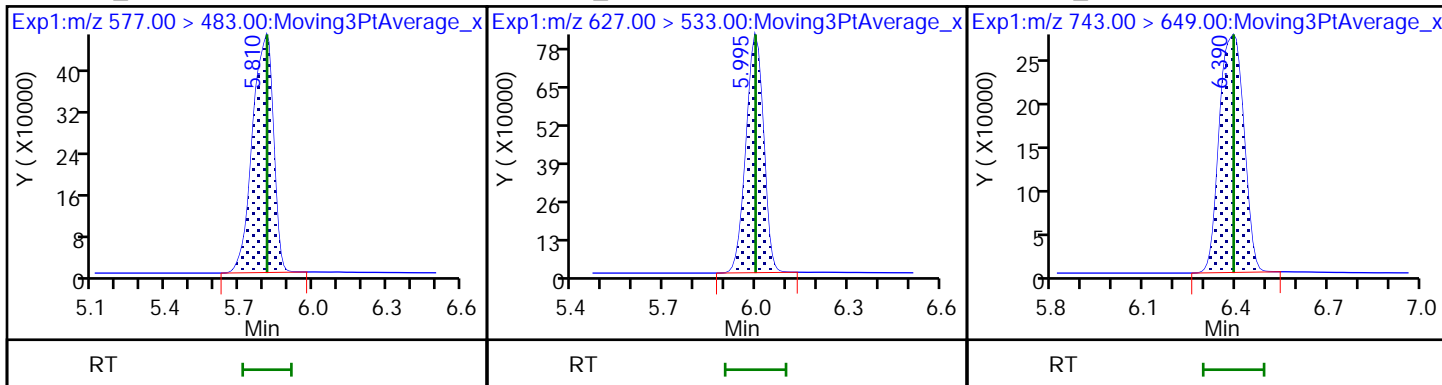
3 MFS_N2



4 MFS_M3

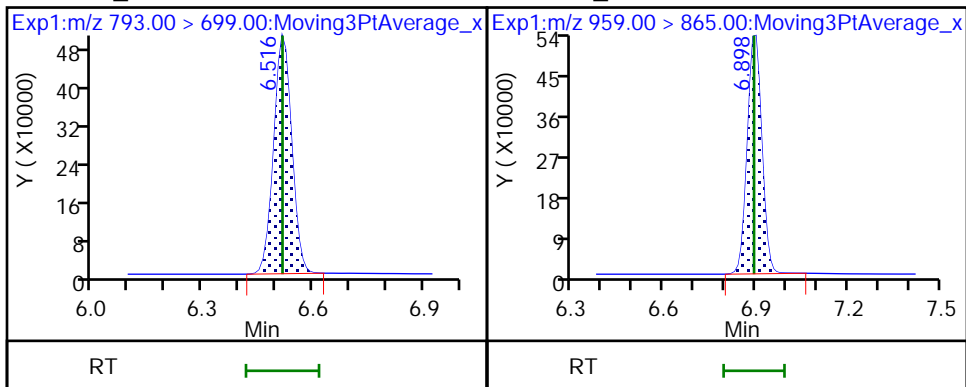
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-06.d
 Lims ID: IC CAL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 13-Aug-2022 23:25:38 ALS Bottle#: 7 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 6
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-006
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:17 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:09:54

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.345	4.349	-0.004	0.878	643717	4.93	98.6	639
* 2 13C2 PFOA	415.00 > 370.00	4.948	4.954	-0.006		3253473	5.00		937
3 MFS_N2	461.00 > 367.00	5.192	5.199	-0.007	1.195	8240362	24.7	102	10347
4 MFS_M3	577.00 > 483.00	5.806	5.811	-0.005	1.336	6681820	25.8	105	477
5 MFS_N3	627.00 > 533.00	5.991	5.997	-0.006	1.379	7713433	25.7	103	635
6 MFS_M4	743.00 > 649.00	6.385	6.391	-0.006	1.470	3578766	25.2	103	594
7 MFS_N4	793.00 > 699.00	6.511	6.517	-0.006	1.498	3730419	23.7	95.1	670
8 MFS_N5	959.00 > 865.00	6.884	6.892	-0.008	1.584	4080524	26.0	103	2507

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS6_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-06.d

Injection Date: 13-Aug-2022 23:25:38

Instrument ID: 30733

Lims ID: IC CAL 6

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 7

Worklist Smp#: 6

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

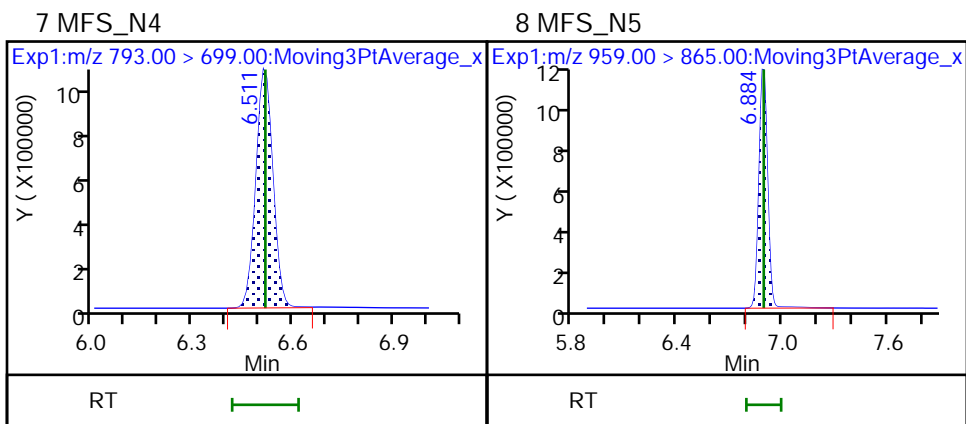
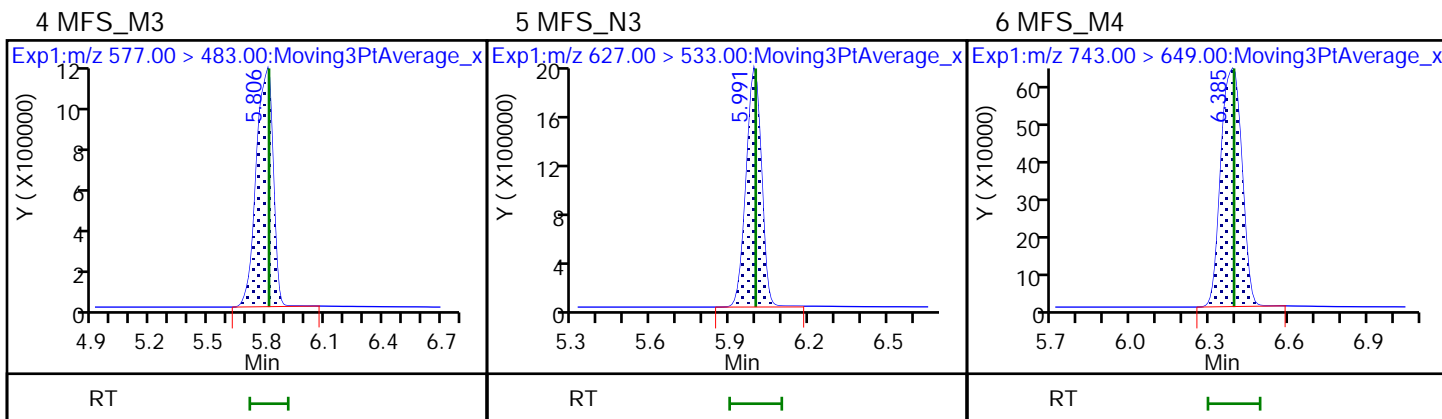
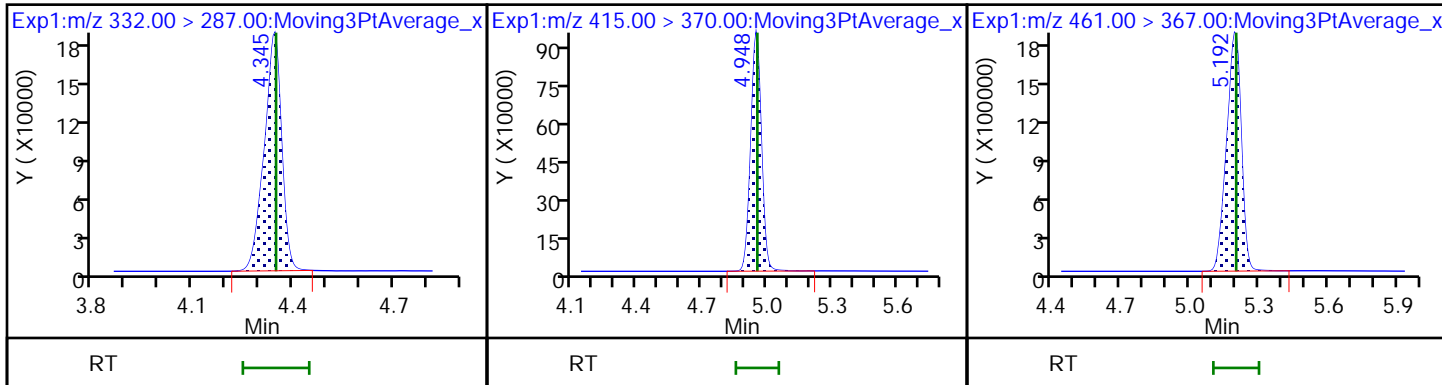
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d
 Lims ID: IC CAL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 13-Aug-2022 23:38:12 ALS Bottle#: 8 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC CAL 7
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:18 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:09:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.342	4.349	-0.007	0.877	635978	5.02	100	660
* 2 13C2 PFOA	415.00 > 370.00	4.949	4.954	-0.005		3155788	5.00		875
3 MFS_N2	461.00 > 367.00	5.192	5.199	-0.007	1.196	15359121	46.6	96.7	10496
4 MFS_M3	577.00 > 483.00	5.808	5.811	-0.003	1.338	12093199	47.2	95.9	372
5 MFS_N3	627.00 > 533.00	5.993	5.997	-0.004	1.380	14354222	48.4	96.7	597
6 MFS_M4	743.00 > 649.00	6.386	6.391	-0.005	1.471	6624550	47.3	96.5	445
7 MFS_N4	793.00 > 699.00	6.511	6.517	-0.006	1.500	6387175	52.1	105	652
8 MFS_N5	959.00 > 865.00	6.885	6.892	-0.007	1.586	6942882	49.0	97.0	2294

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS7_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Injection Date: 13-Aug-2022 23:38:12

Instrument ID: 30733

Lims ID: IC CAL 7

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 8

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

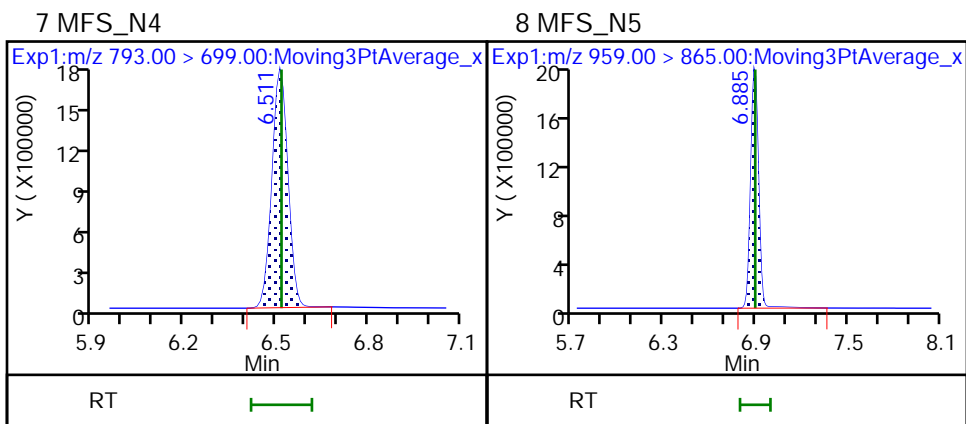
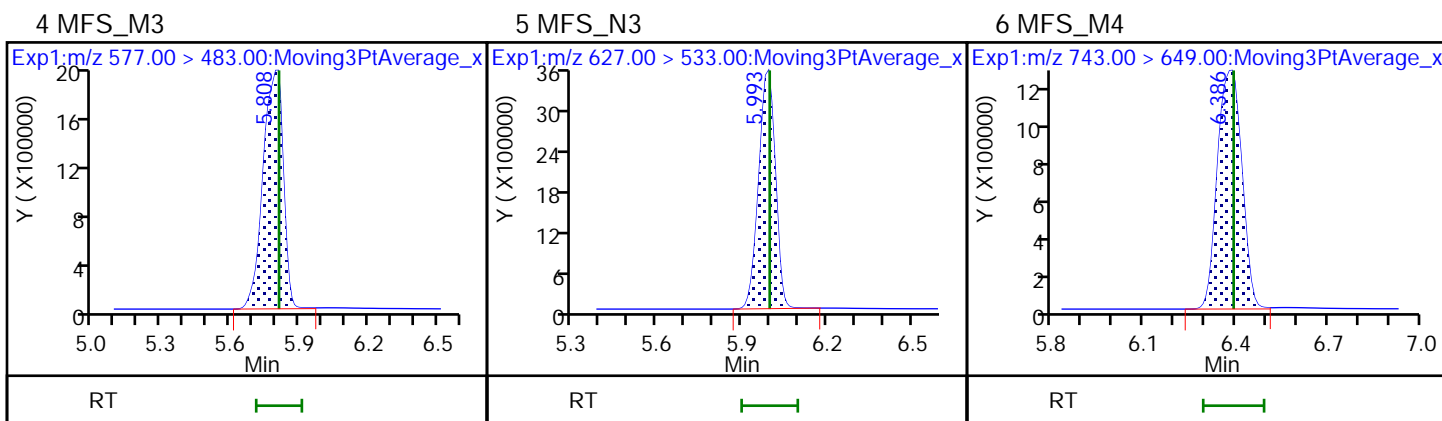
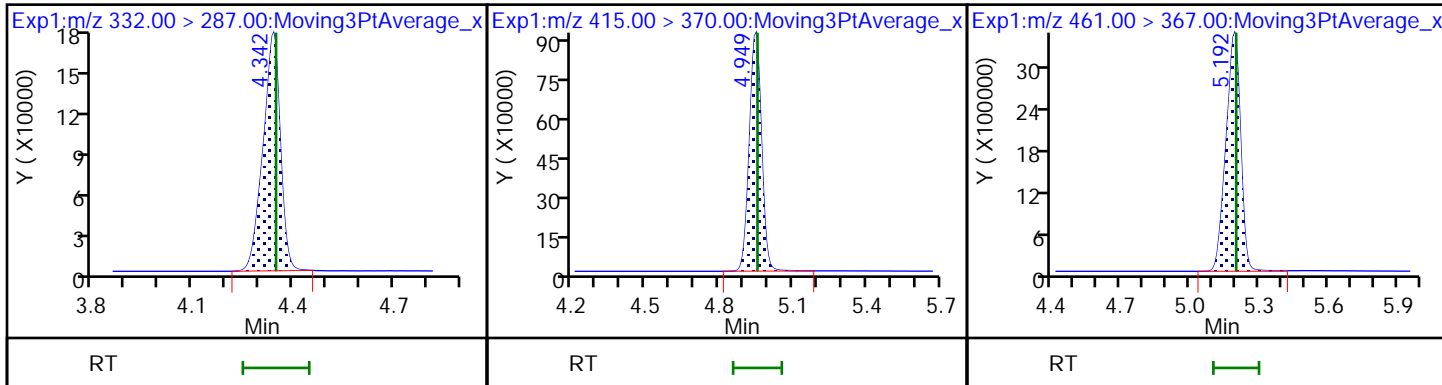
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Calibration

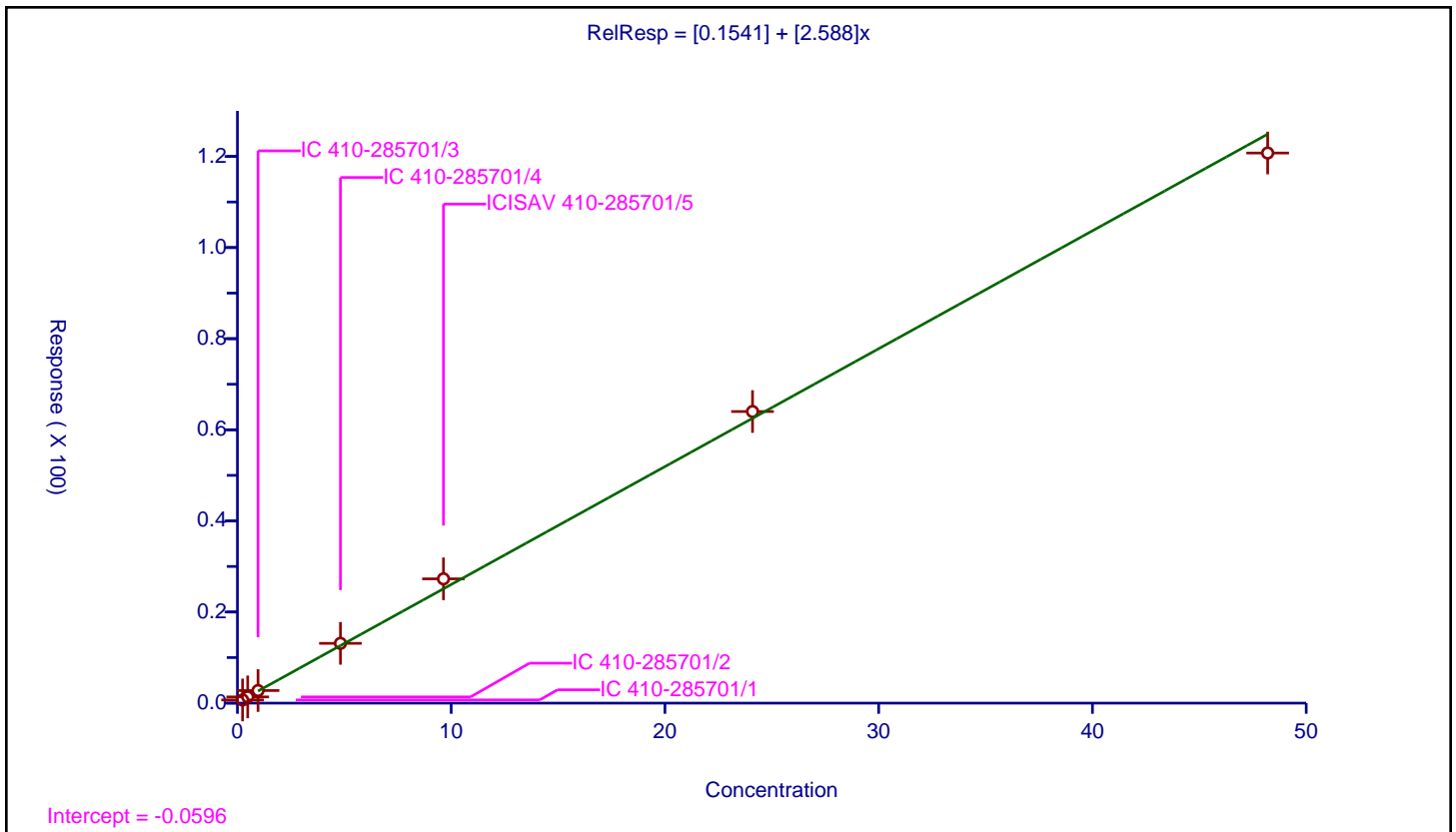
/ MFS_N2

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1541
Slope:	2.588

Error Coefficients	
Standard Error:	7990000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285701/1	0.240983	0.69642	5.0	657068.0	2.889913	Y
2	IC 410-285701/2	0.481966	1.362284	5.0	639092.0	2.826517	Y
3	IC 410-285701/3	0.963932	2.760304	5.0	643708.0	2.86359	Y
4	IC 410-285701/4	4.819658	13.122055	5.0	638605.0	2.722611	Y
5	ICISAV 410-285701/5	9.639316	27.278609	5.0	641139.0	2.829932	Y
6	IC 410-285701/6	24.098289	64.006093	5.0	643717.0	2.656043	Y
7	IC 410-285701/7	48.196578	120.751984	5.0	635978.0	2.505406	Y



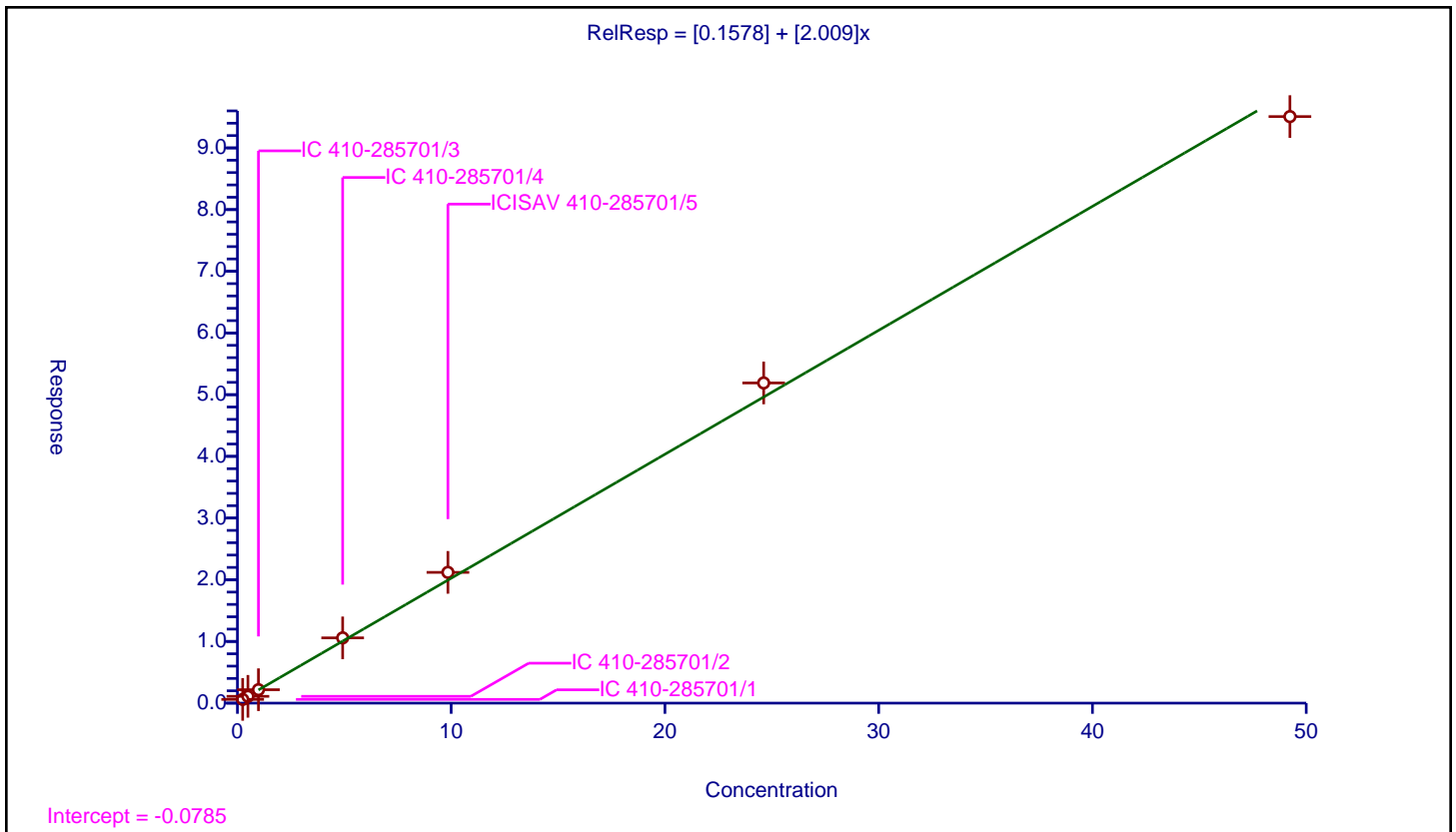
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1578
Slope:	2.009

Error Coefficients	
Standard Error:	6330000
Relative Standard Error:	6.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285701/1	0.246191	0.604656	5.0	657068.0	2.45604	Y
2	IC 410-285701/2	0.492383	1.101258	5.0	639092.0	2.236588	Y
3	IC 410-285701/3	0.984766	2.177027	5.0	643708.0	2.210706	Y
4	IC 410-285701/4	4.923828	10.579537	5.0	638605.0	2.148641	Y
5	ICISAV 410-285701/5	9.847656	21.19524	5.0	641139.0	2.152313	Y
6	IC 410-285701/6	24.619141	51.900292	5.0	643717.0	2.108128	Y
7	IC 410-285701/7	49.238282	95.075608	5.0	635978.0	1.930929	Y



Calibration

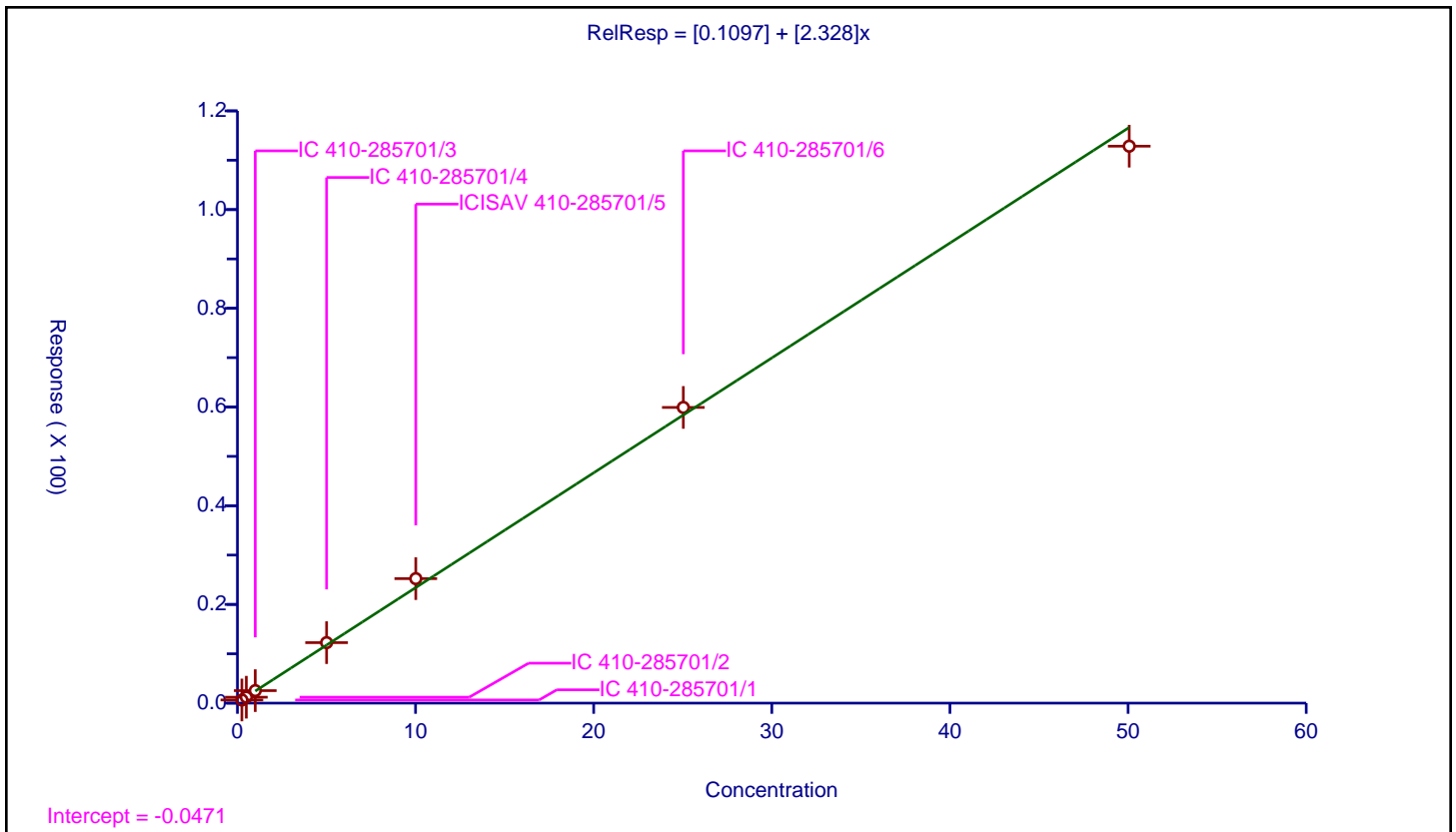
/ MFS_N3

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1097
Slope:	2.328

Error Coefficients	
Standard Error:	7460000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285701/1	0.250322	0.64055	5.0	657068.0	2.558903	Y
2	IC 410-285701/2	0.500644	1.198982	5.0	639092.0	2.394878	Y
3	IC 410-285701/3	1.001289	2.535264	5.0	643708.0	2.532001	Y
4	IC 410-285701/4	5.006444	12.259949	5.0	638605.0	2.448834	Y
5	ICISAV 410-285701/5	10.012888	25.224249	5.0	641139.0	2.519178	Y
6	IC 410-285701/6	25.03222	59.913231	5.0	643717.0	2.393445	Y
7	IC 410-285701/7	50.064439	112.851561	5.0	635978.0	2.254126	Y



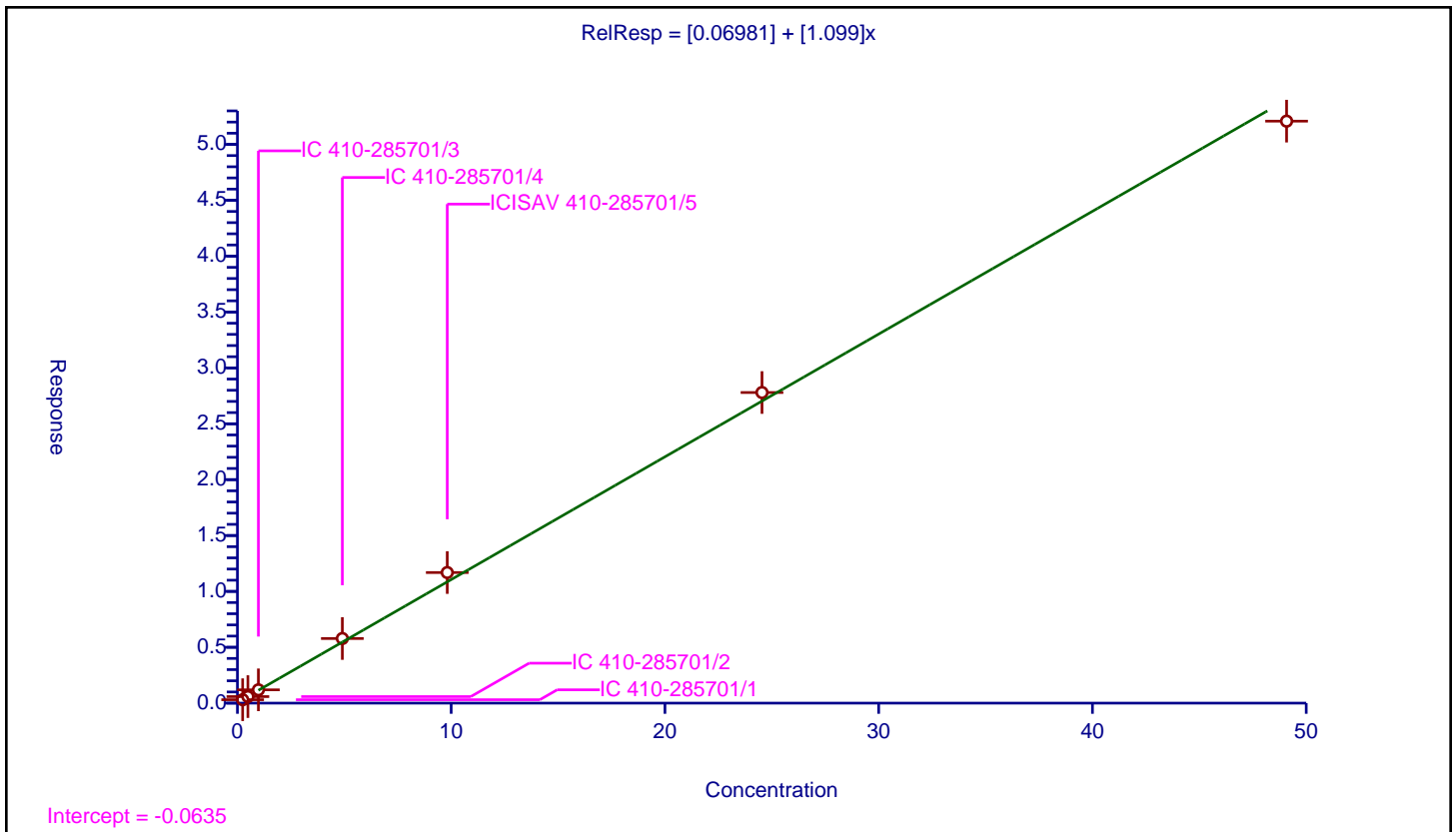
Calibration

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06981
Slope:	1.099

Error Coefficients	
Standard Error:	3450000
Relative Standard Error:	7.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285701/1	0.245407	0.305988	5.0	657068.0	1.246859	Y
2	IC 410-285701/2	0.490814	0.584251	5.0	639092.0	1.19037	Y
3	IC 410-285701/3	0.981629	1.191021	5.0	643708.0	1.213311	Y
4	IC 410-285701/4	4.908144	5.784452	5.0	638605.0	1.178542	Y
5	ICISAV 410-285701/5	9.816288	11.68692	5.0	641139.0	1.190564	Y
6	IC 410-285701/6	24.540719	27.797666	5.0	643717.0	1.132716	Y
7	IC 410-285701/7	49.081438	52.081597	5.0	635978.0	1.061126	Y



Calibration

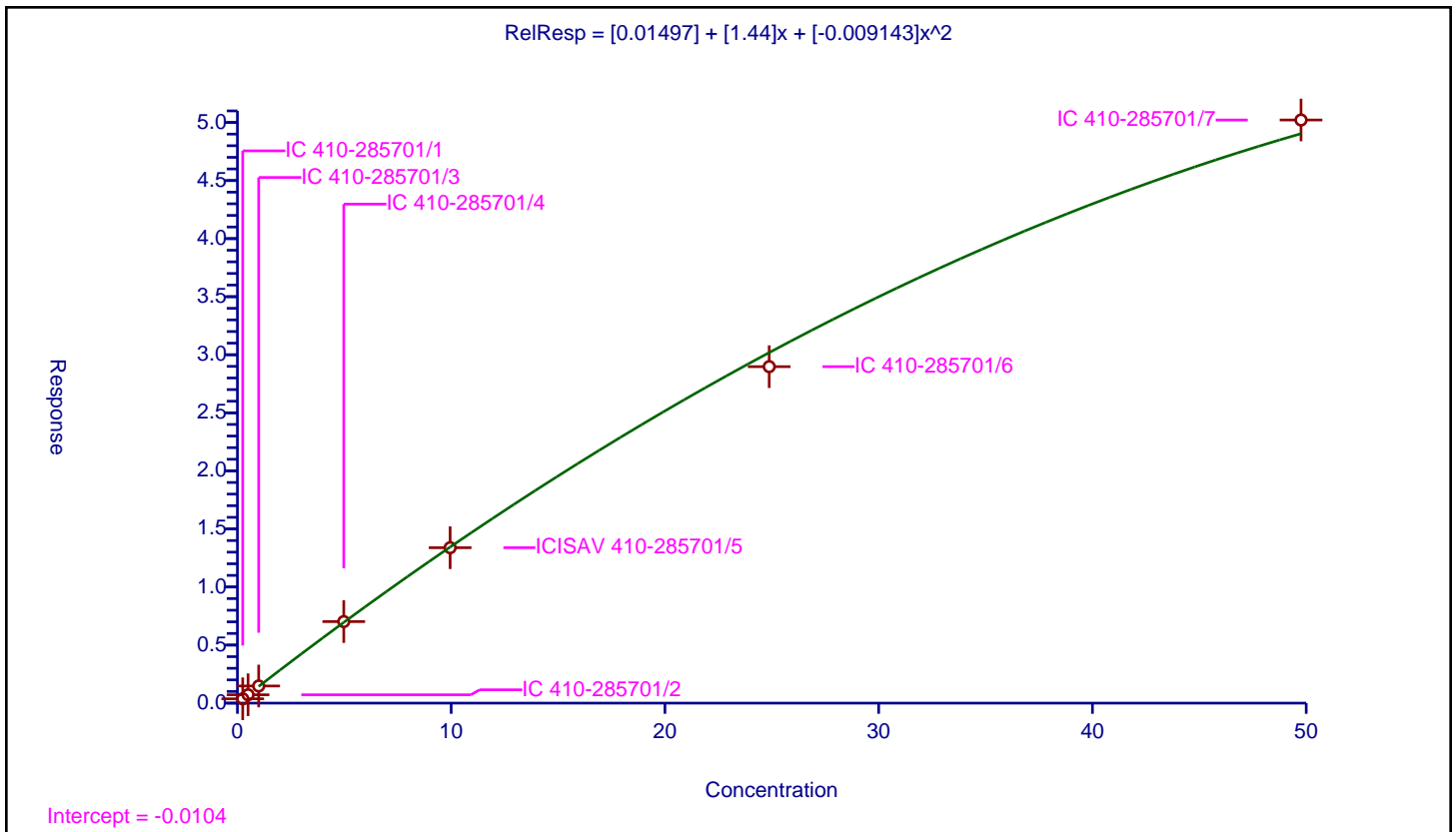
/ MFS_N4

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.01497
Slope:	1.44
Second Order:	-0.009143

Error Coefficients	
Standard Error:	3820000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285701/1	0.248788	0.372967	5.0	657068.0	1.499138	Y
2	IC 410-285701/2	0.497576	0.718676	5.0	639092.0	1.444354	Y
3	IC 410-285701/3	0.995152	1.476904	5.0	643708.0	1.484099	Y
4	IC 410-285701/4	4.975759	7.020592	5.0	638605.0	1.410959	Y
5	ICISAV 410-285701/5	9.951518	13.383268	5.0	641139.0	1.344847	Y
6	IC 410-285701/6	24.878795	28.975614	5.0	643717.0	1.164671	Y
7	IC 410-285701/7	49.75759	50.215377	5.0	635978.0	1.0092	Y



Calibration

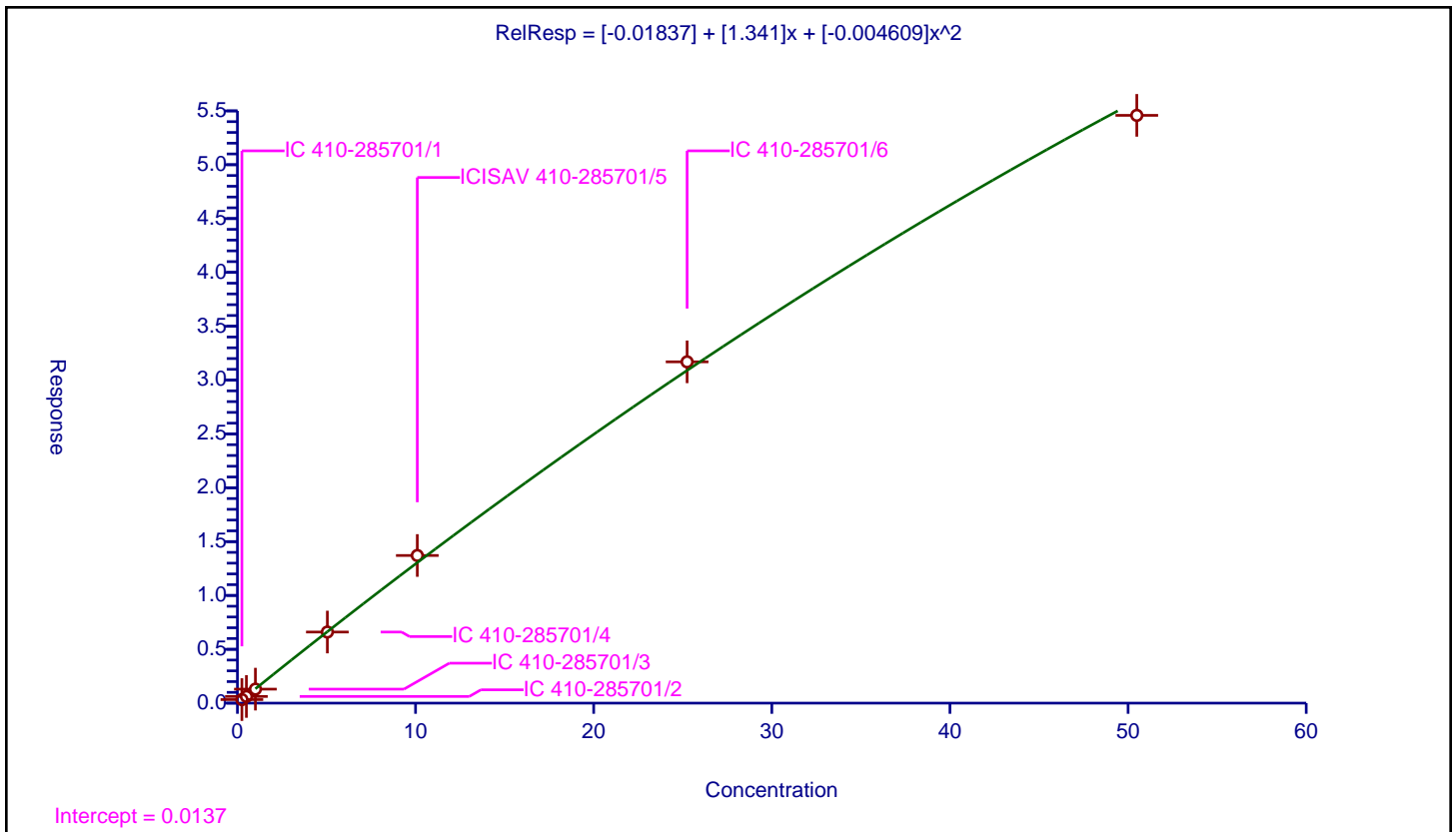
/ MFS_N5

Curve Type: Quadratic
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.01837
Slope:	1.341
Second Order:	-0.004609

Error Coefficients	
Standard Error:	4140000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-285701/1	0.252449	0.330993	5.0	657068.0	1.311131	Y
2	IC 410-285701/2	0.504897	0.619793	5.0	639092.0	1.227563	Y
3	IC 410-285701/3	1.009795	1.298819	5.0	643708.0	1.286221	Y
4	IC 410-285701/4	5.048973	6.601546	5.0	638605.0	1.307503	Y
5	ICISAV 410-285701/5	10.097945	13.710693	5.0	641139.0	1.357771	Y
6	IC 410-285701/6	25.244863	31.695015	5.0	643717.0	1.255504	Y
7	IC 410-285701/7	50.489726	54.584294	5.0	635978.0	1.081097	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: ICV 410-283151/9 Calibration Date: 08/05/2022 10:34
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG05MFSCAL-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.873		0.962	0.964	-0.2	30.0
MFS_M3	L1ID		2.145		0.966	0.985	-1.9	30.0
MFS_N3	L1ID		2.383		0.978	1.00	-2.3	30.0
MFS_M4	L1ID		1.127		0.998	0.982	1.7	30.0
MFS_N4	L1ID		1.324		1.02	0.995	2.4	30.0
MFS_N5	L1ID		1.220		0.980	1.01	-2.9	30.0
13C3 HFPO-DA	Ave	0.2019	0.2006		4.97	5.00	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 05-Aug-2022 10:34:09 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:28:59 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:23

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.385	4.389	-0.004	0.879	685023	4.97	99.4	2627
* 2 13C2 PFOA	415.00 > 370.00	4.990	4.998	-0.008		3414636	5.00		5022
3 MFS_N2	461.00 > 367.00	5.237	5.242	-0.005	1.194	379478	0.9623		1913
4 MFS_M3	577.00 > 483.00	5.846	5.854	-0.008	1.333	289353	0.9657		977
5 MFS_N3	627.00 > 533.00	6.033	6.039	-0.006	1.376	326961	0.9778		1610
6 MFS_M4	743.00 > 649.00	6.436	6.437	-0.001	1.468	151502	1.00		1564
7 MFS_N4	793.00 > 699.00	6.566	6.567	-0.001	1.497	180449	1.02		2539
8 MFS_N5	959.00 > 865.00	6.938	6.942	-0.004	1.582	168796	0.9800		3431

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-13.d

Injection Date: 05-Aug-2022 10:34:09

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

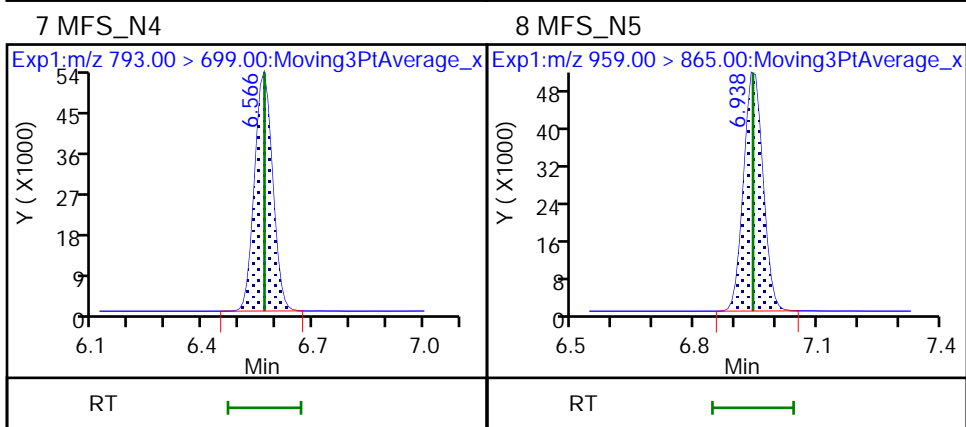
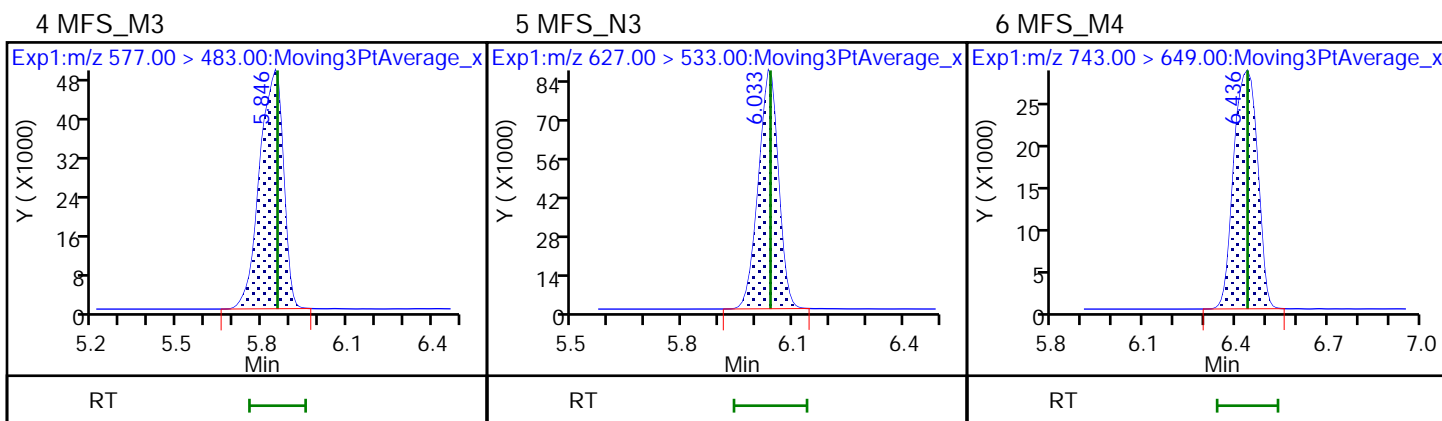
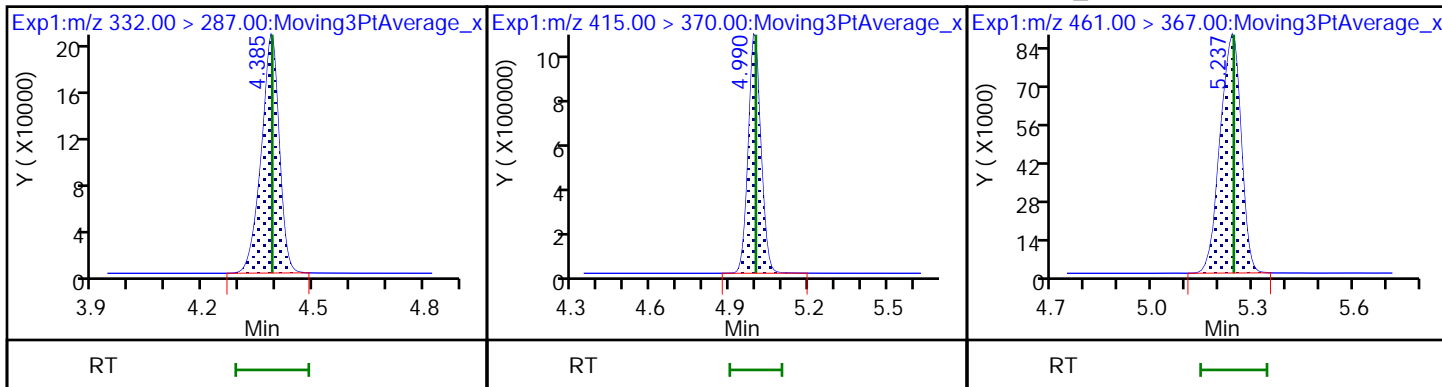
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/1 Calibration Date: 08/05/2022 12:17
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.189		0.208	0.241	-13.8	50.0
MFS_M3	L1ID		2.555		0.233	0.246	-5.4	50.0
MFS_N3	L1ID		2.751		0.254	0.250	1.4	50.0
MFS_M4	L1ID		1.197		0.217	0.245	-11.8	50.0
MFS_N4	L1ID		1.560		0.225	0.249	-9.6	50.0
MFS_N5	L1ID		1.332		0.251	0.252	-0.5	50.0
13C3 HFPO-DA	Ave	0.2019	0.1913		4.74	5.00	-5.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 12:17:41 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:42:49

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.400	4.400	0.0	0.879	630381	4.74	94.7	2978
* 2 13C2 PFOA	415.00 > 370.00	5.007	5.007	0.0		3295947	5.00		5209
3 MFS_N2	461.00 > 367.00	5.252	5.252	0.0	1.194	96880	0.2078	86.2	876
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.331	79314	0.2330	94.6	474
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.373	86836	0.2538	101	1216
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	37045	0.2165	88.2	980
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	48917	0.2250	90.4	1622
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	42401	0.2512	99.5	2158

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-01.d

Injection Date: 05-Aug-2022 12:17:41

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

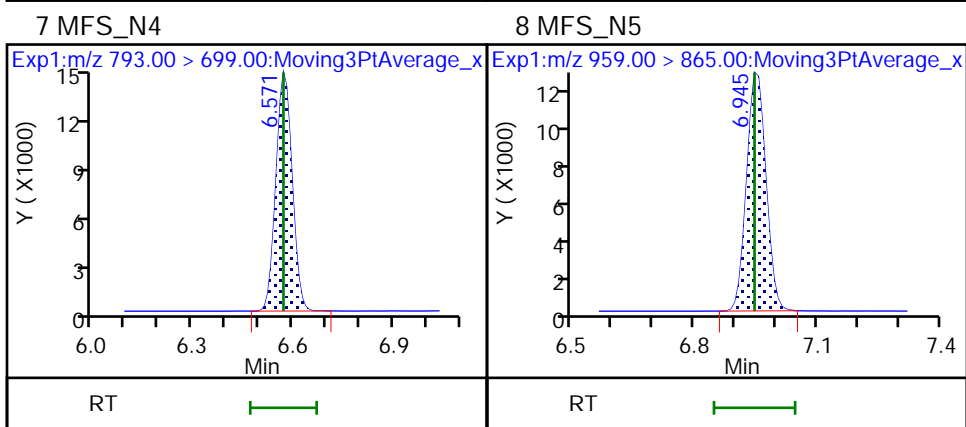
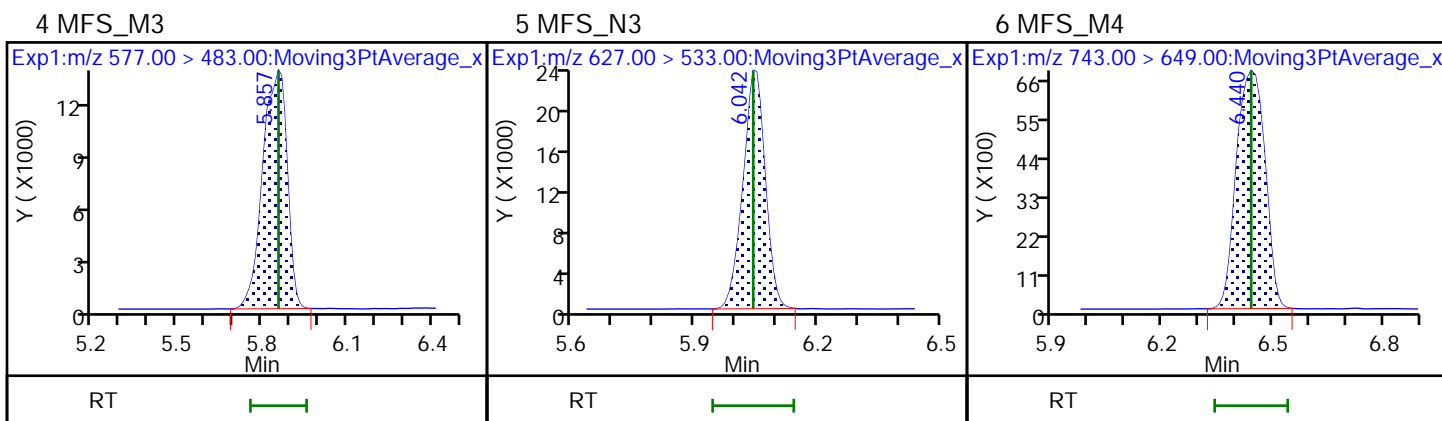
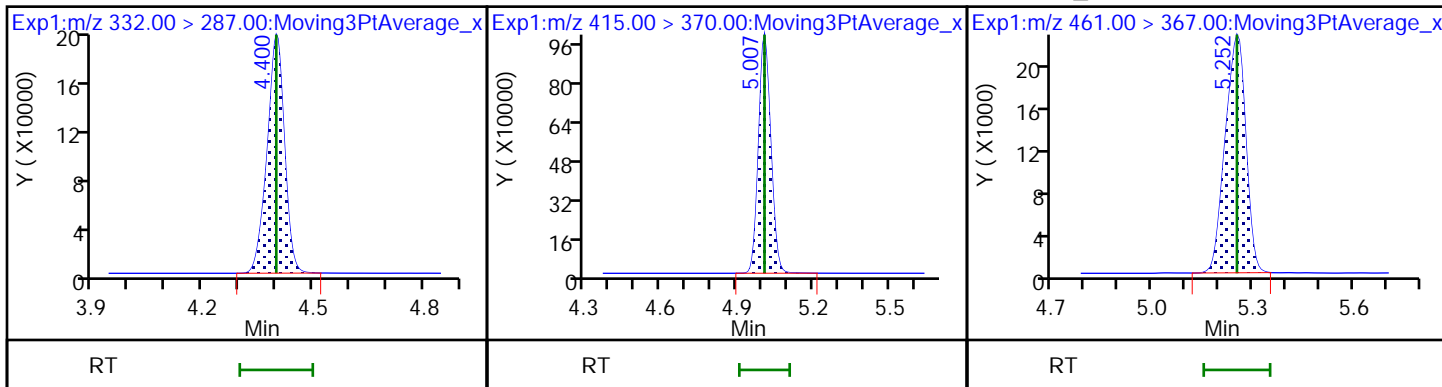
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/7 Calibration Date: 08/05/2022 13:34
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.023		1.02	0.964	5.5	30.0
MFS_M3	L1ID		2.253		1.02	0.985	3.4	30.0
MFS_N3	L1ID		2.539		1.04	1.00	4.3	30.0
MFS_M4	L1ID		1.210		1.08	0.982	9.7	30.0
MFS_N4	L1ID		1.467		1.14	0.995	14.7	30.0
MFS_N5	L1ID		1.305		1.05	1.01	4.0	30.0
13C3 HFPO-DA	Ave	0.2019	0.1900		4.70	5.00	-5.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 13:34:31 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:13 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:01

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.392	4.400	-0.008	0.879	625902	4.70	94.1	2222
* 2 13C2 PFOA	415.00 > 370.00	4.997	5.007	-0.010		3294826	5.00		3748
3 MFS_N2	461.00 > 367.00	5.246	5.252	-0.006	1.194	364767	1.02	105	2047
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.334	277784	1.02	103	894 M
5 MFS_N3	627.00 > 533.00	6.042	6.042	0.0	1.376	318229	1.04	104	1794
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.466	148695	1.08	110	1960
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.496	182721	1.14	115	2345
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.582	164986	1.05	104	2993

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-07.d

Injection Date: 05-Aug-2022 13:34:31

Instrument ID: 30733

Lims ID: CCV_2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

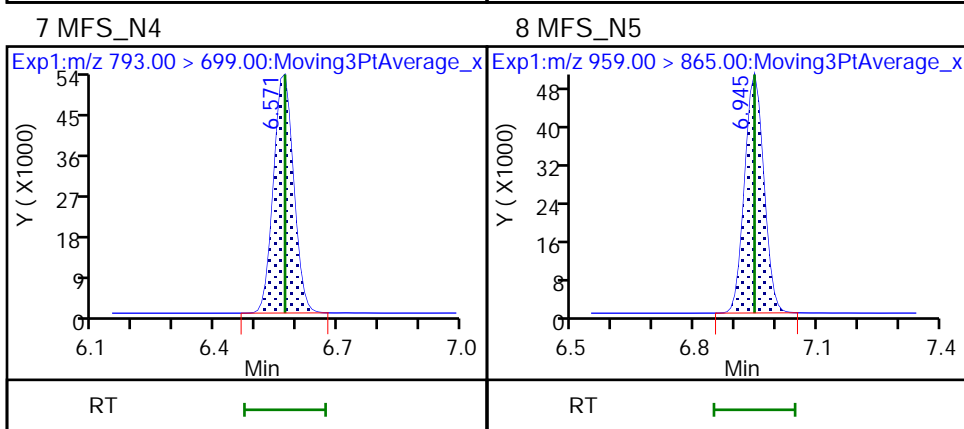
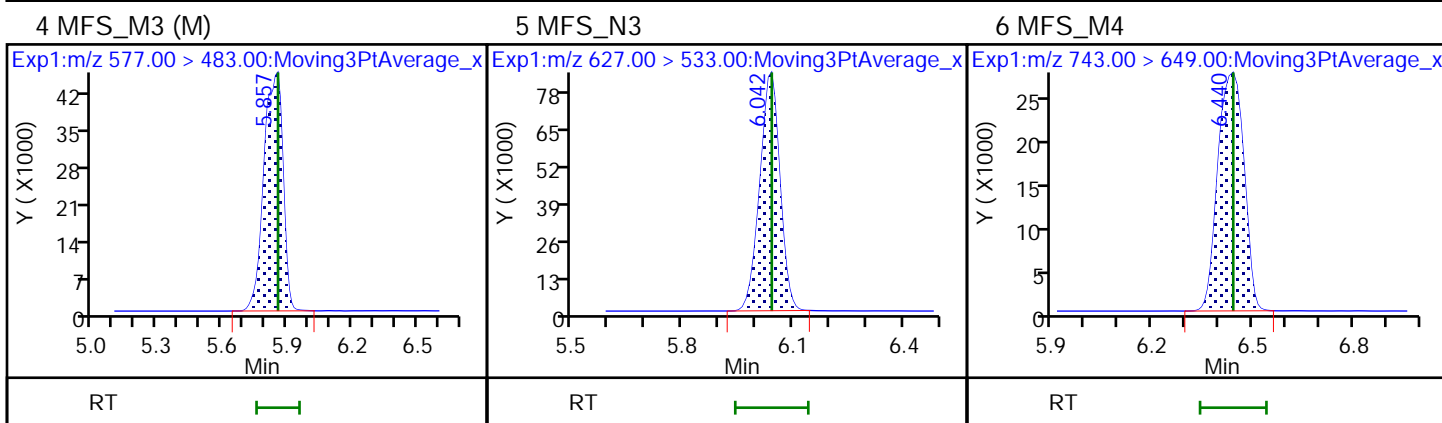
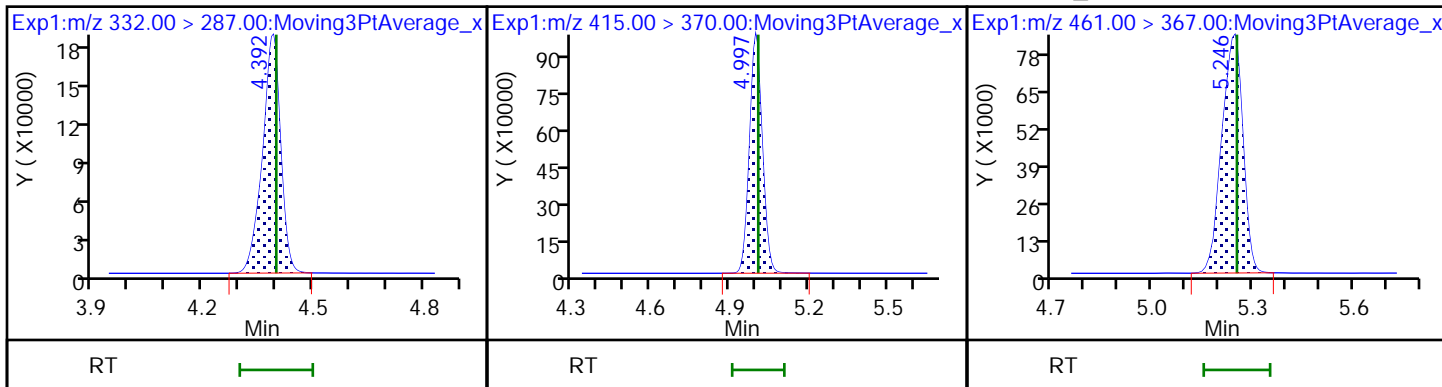
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



Eurofins Lancaster Laboratories Environment Testing, LLC

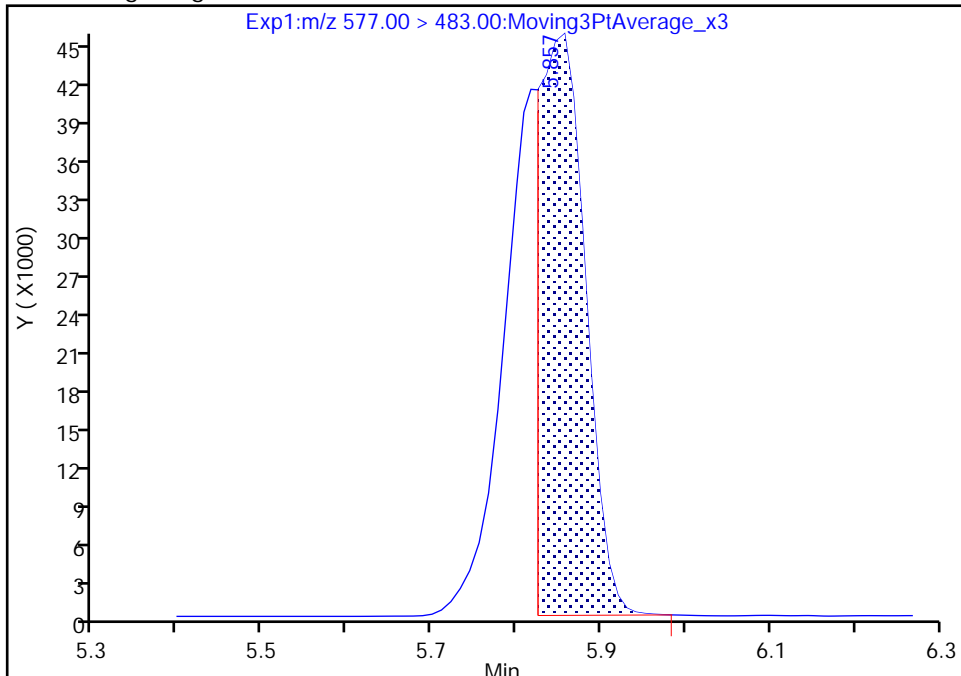
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Injection Date: 05-Aug-2022 13:34:31 Instrument ID: 30733
Lims ID: CCV_2_CAL3
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

4 MFS_M3, CAS: STL02874

Signal: 1

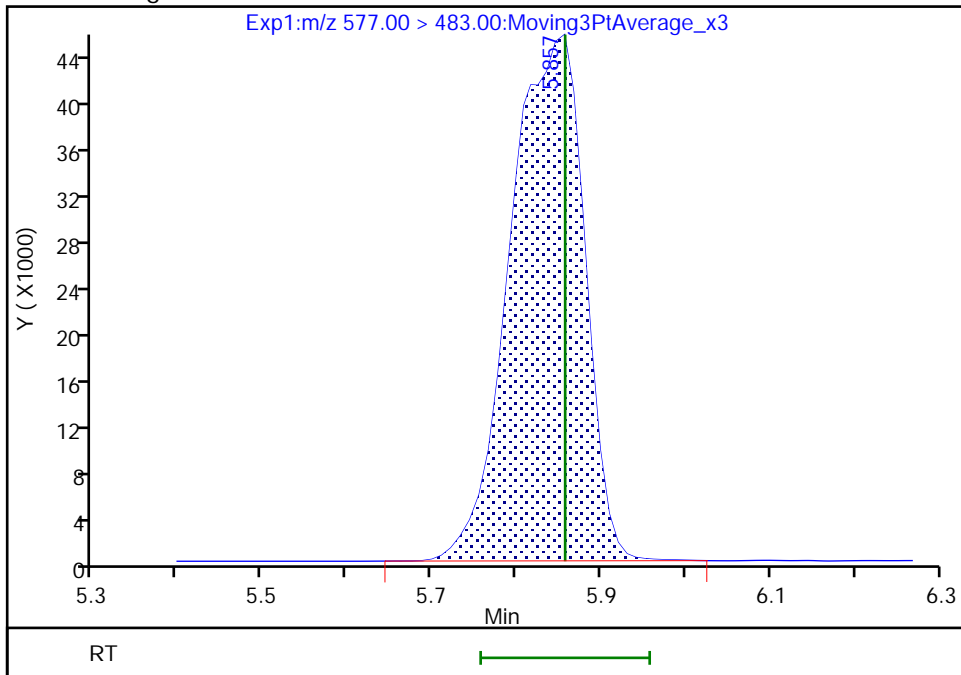
RT: 5.86
Area: 162466
Amount: 0.563400
Amount Units: ng/ml

Processing Integration Results



RT: 5.86
Area: 277784
Amount: 1.018559
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:01:56
Audit Action: Manually Integrated

Audit Reason: Baseline
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FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283250/16 Calibration Date: 08/05/2022 15:27
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.908		10.5	9.64	8.8	30.0
MFS_M3	L1ID		2.215		10.7	9.85	8.6	30.0
MFS_N3	L1ID		2.562		10.9	10.0	8.9	30.0
MFS_M4	L1ID		1.167		11.0	9.82	11.6	30.0
MFS_N4	L1ID		1.289		10.9	9.95	9.1	30.0
MFS_N5	L1ID		1.392		11.4	10.1	13.0	30.0
13C3 HFPO-DA	Ave	0.2019	0.2020		5.00	5.00	0.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-16.d
 Lims ID: CCV 3_CAL5
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Aug-2022 15:27:49 ALS Bottle#: 6 Worklist Smp#: 16
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 3_CAL5
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-016
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:18 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:29

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.393	4.393	0.0	0.879	619183	5.00	100	2005
* 2 13C2 PFOA	415.00 > 370.00	4.998	4.998	0.0		3064822	5.00		2982
3 MFS_N2	461.00 > 367.00	5.246	5.246	0.0	1.194	3471407	10.5	109	613
4 MFS_M3	577.00 > 483.00	5.848	5.848	0.0	1.331	2701096	10.7	109	1844
5 MFS_N3	627.00 > 533.00	6.044	6.044	0.0	1.376	3177114	10.9	109	4438
6 MFS_M4	743.00 > 649.00	6.442	6.442	0.0	1.466	1418120	11.0	112	3343
7 MFS_N4	793.00 > 699.00	6.573	6.573	0.0	1.496	1588837	10.9	109	4838
8 MFS_N5	959.00 > 865.00	6.947	6.947	0.0	1.581	1740340	11.4	113	9004

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS5_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-16.d

Injection Date: 05-Aug-2022 15:27:49

Instrument ID: 30733

Lims ID: CCV_3_CAL5

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 6

Worklist Smp#: 16

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

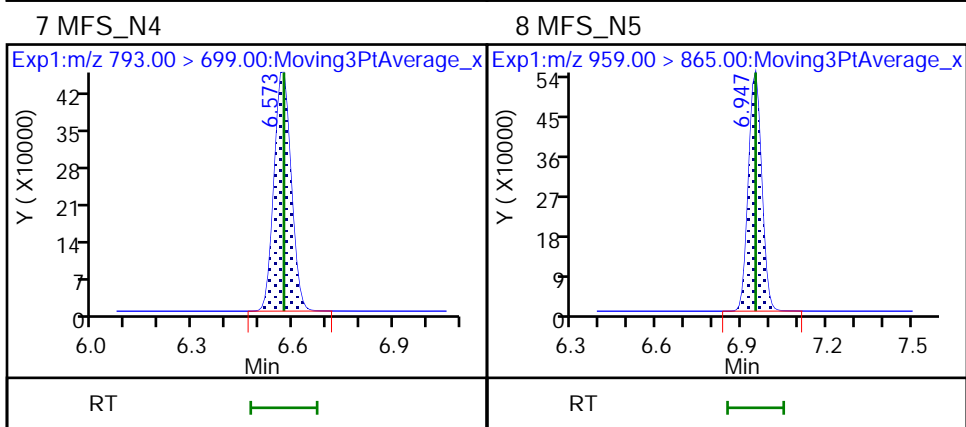
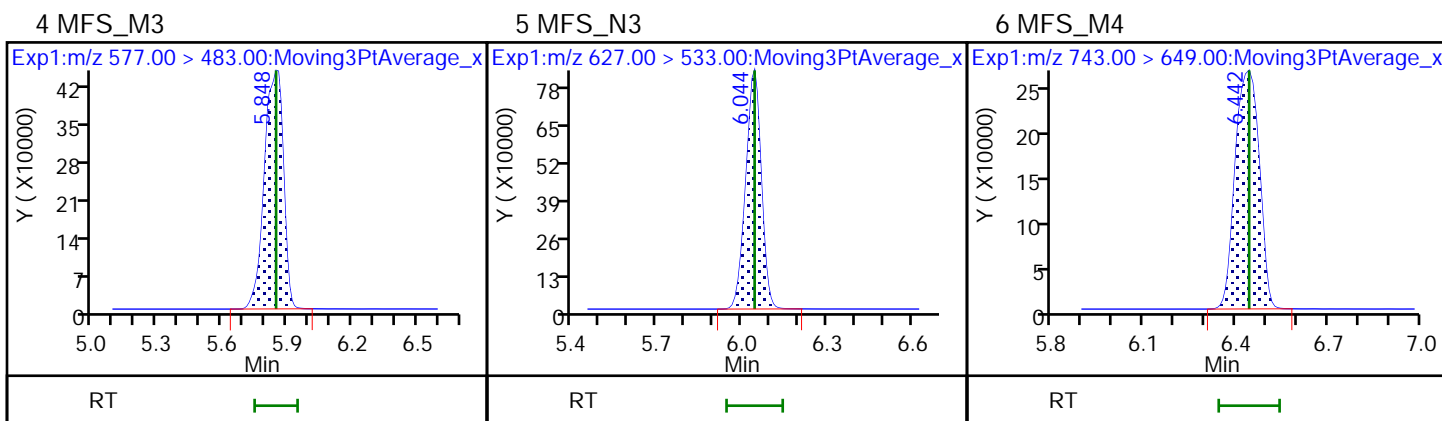
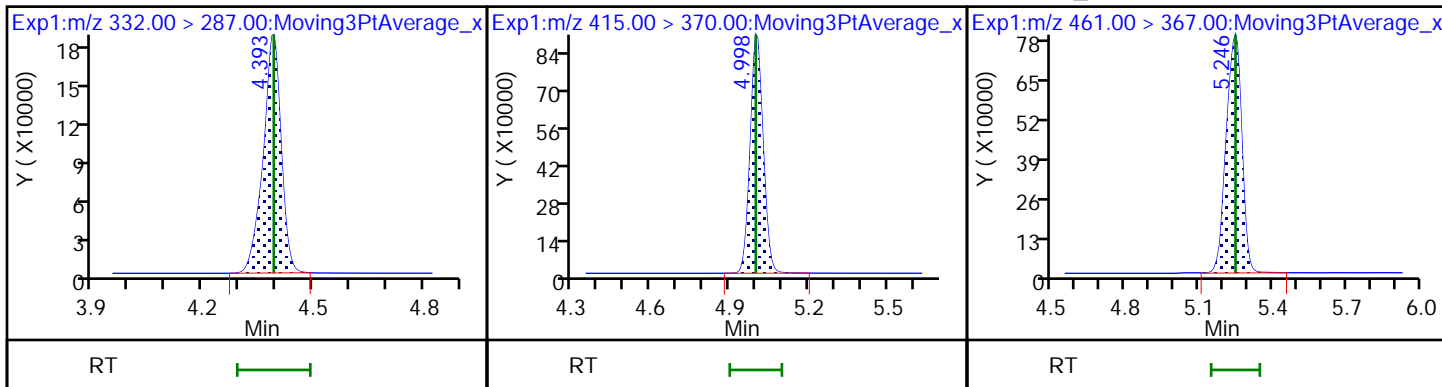
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283250/23 Calibration Date: 08/05/2022 16:56
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG5MFS-23.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.088		0.199	0.241	-17.6	50.0
MFS_M3	L1ID		2.458		0.221	0.246	-10.2	50.0
MFS_N3	L1ID		2.693		0.248	0.250	-1.1	50.0
MFS_M4	L1ID		1.274		0.235	0.245	-4.4	50.0
MFS_N4	L1ID		1.607		0.235	0.249	-5.5	50.0
MFS_N5	L1ID		1.345		0.254	0.252	0.5	50.0
13C3 HFPO-DA	Ave	0.2019	0.1960		4.85	5.00	-2.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d
 Lims ID: CCVL 4_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 05-Aug-2022 16:56:00 ALS Bottle#: 2 Worklist Smp#: 23
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 4_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-023
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:21 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:43:42

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
D 1 13C3 HFPO-DA	332.00 > 287.00	4.395	4.393	0.002	0.879	651849	4.85	97.1	2311
* 2 13C2 PFOA	415.00 > 370.00	5.000	4.998	0.002		3324937	5.00		3238
3 MFS_N2	461.00 > 367.00	5.251	5.246	0.005	1.195	97002	0.1986	82.4	26.2 M
4 MFS_M3	577.00 > 483.00	5.858	5.848	0.010	1.333	78878	0.2211	89.8	189
5 MFS_N3	627.00 > 533.00	6.043	6.044	-0.001	1.375	87888	0.2476	98.9	656
6 MFS_M4	743.00 > 649.00	6.442	6.442	0.0	1.466	40762	0.2347	95.6	628
7 MFS_N4	793.00 > 699.00	6.572	6.573	-0.001	1.495	52133	0.2351	94.5	981
8 MFS_N5	959.00 > 865.00	6.947	6.947	0.0	1.580	44252	0.2537	100	950

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d

Injection Date: 05-Aug-2022 16:56:00

Instrument ID: 30733

Lims ID: CCVL 4_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 23

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

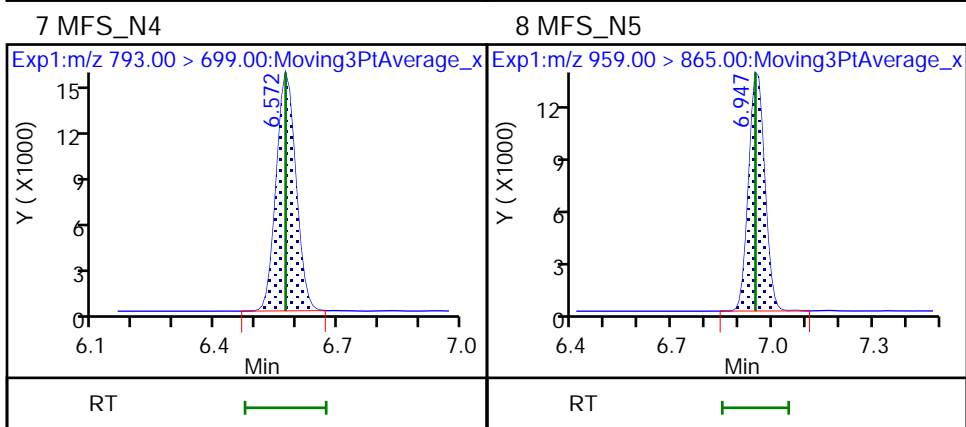
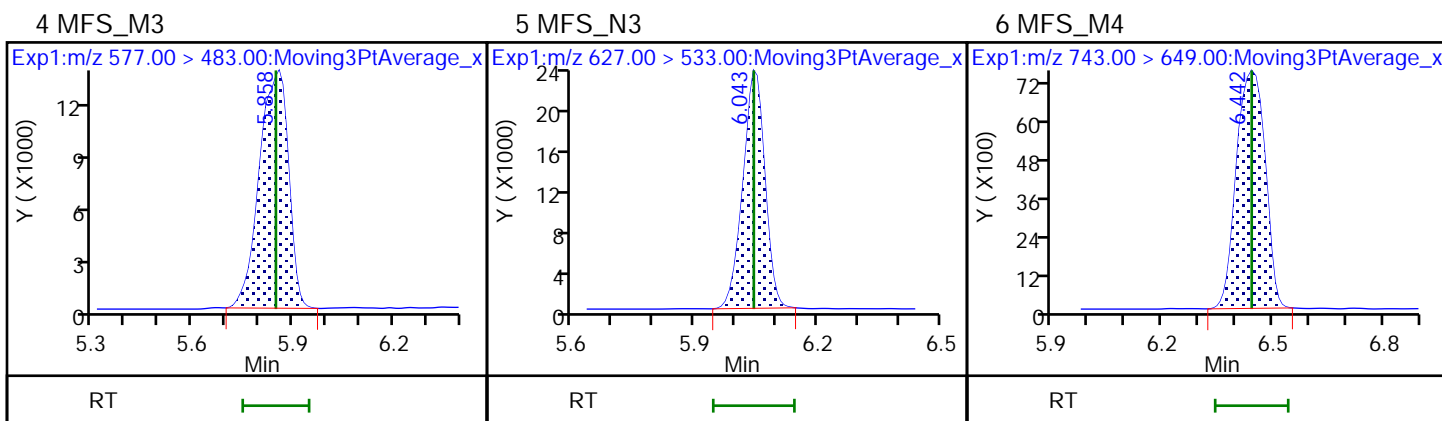
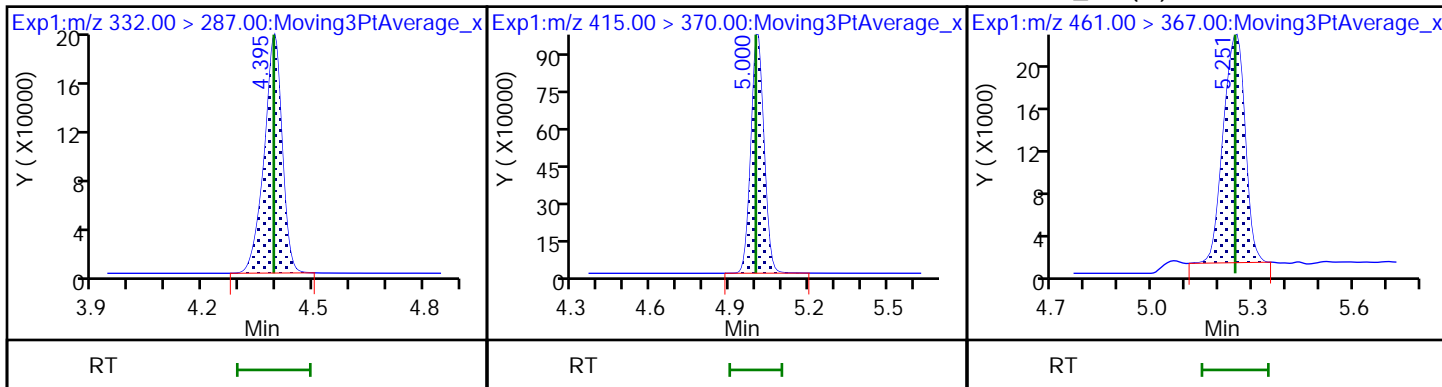
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (M)



Eurofins Lancaster Laboratories Environment Testing, LLC

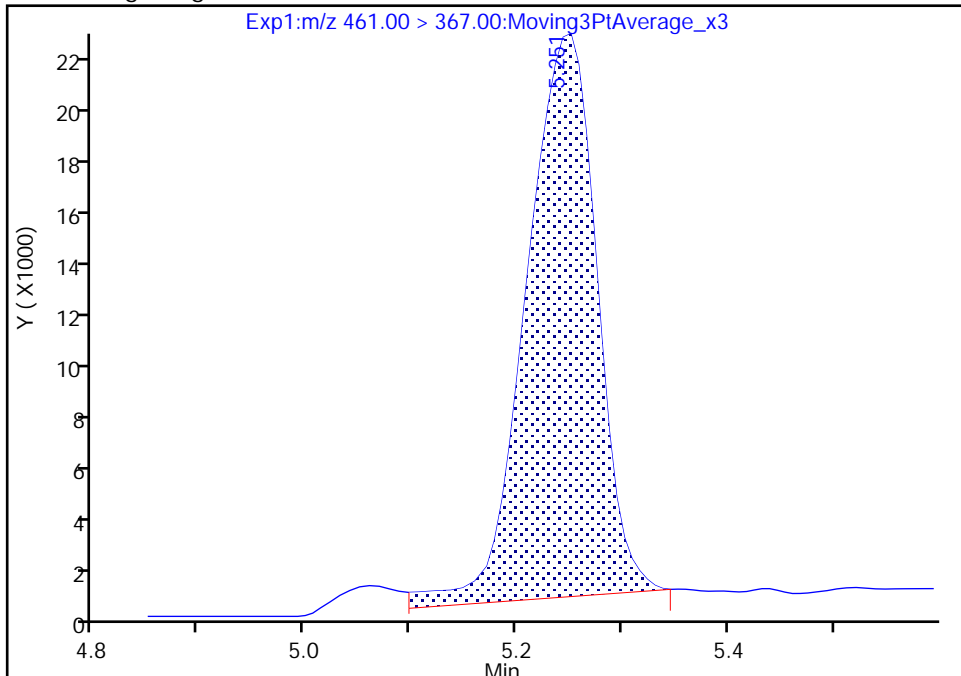
Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-23.d
Injection Date: 05-Aug-2022 16:56:00 Instrument ID: 30733
Lims ID: CCVL 4_CAL1
Client ID:
Operator ID: US19_USR_INS20260 ALS Bottle#: 2 Worklist Smp#: 23
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: MFS_IDA_30733 Limit Group: LC - MFS_IDA
Column: Detector EXP1

3 MFS_N2, CAS: STL02873

Signal: 1

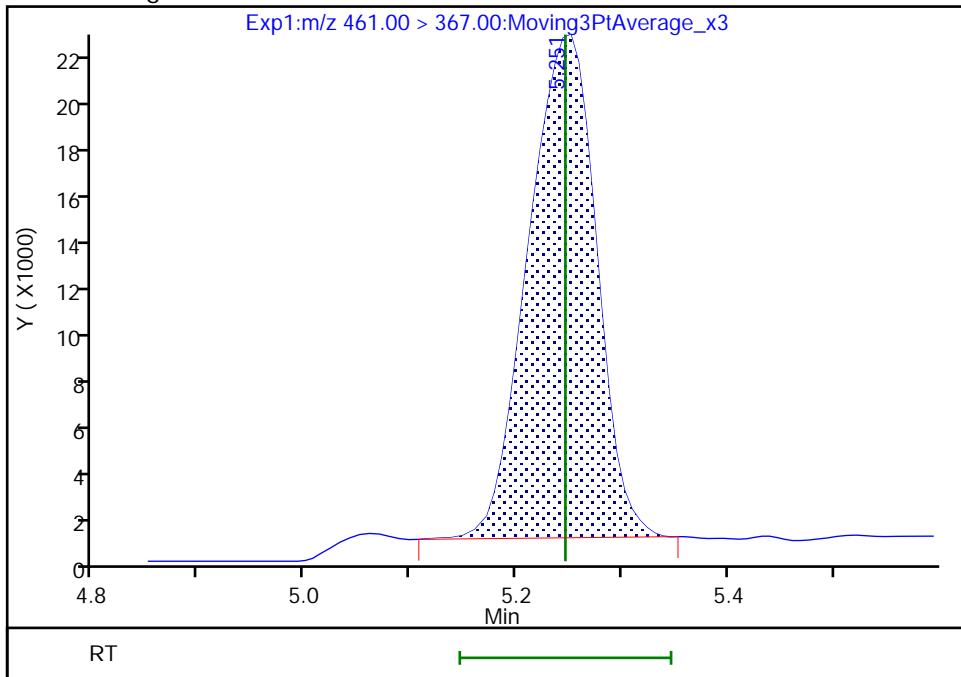
RT: 5.25
Area: 101677
Amount: 0.212092
Amount Units: ng/ml

Processing Integration Results



RT: 5.25
Area: 97002
Amount: 0.198572
Amount Units: ng/ml

Manual Integration Results



Reviewer: DCS9, 06-Aug-2022 11:02:13
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 489 of 539

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-283896/1 Calibration Date: 08/08/2022 18:56
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG08MFS-03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.140		0.203	0.241	-15.6	50.0
MFS_M3	L1ID		2.486		0.225	0.246	-8.8	50.0
MFS_N3	L1ID		2.726		0.251	0.250	0.3	50.0
MFS_M4	L1ID		1.262		0.232	0.245	-5.5	50.0
MFS_N4	L1ID		1.622		0.238	0.249	-4.3	50.0
MFS_N5	L1ID		1.382		0.261	0.252	3.6	50.0
13C3 HFPO-DA	Ave	0.2019	0.1959		4.85	5.00	-3.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-03.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 08-Aug-2022 18:56:16 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:26 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:24:38

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.379	4.379	0.0	0.879	669635	4.85	97.0	229
* 2 13C2 PFOA	415.00 > 370.00	4.983	4.983	0.0		3417511	5.00		331
3 MFS_N2	461.00 > 367.00	5.232	5.232	0.0	1.195	101329	0.2033	84.4	854
4 MFS_M3	577.00 > 483.00	5.839	5.839	0.0	1.333	81984	0.2246	91.2	131
5 MFS_N3	627.00 > 533.00	6.028	6.028	0.0	1.376	91402	0.2512	100	298
6 MFS_M4	743.00 > 649.00	6.423	6.423	0.0	1.467	41482	0.2318	94.5	231
7 MFS_N4	793.00 > 699.00	6.558	6.558	0.0	1.497	54029	0.2382	95.7	332
8 MFS_N5	959.00 > 865.00	6.932	6.932	0.0	1.583	46737	0.2615	104	500

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-03.d

Injection Date: 08-Aug-2022 18:56:16

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

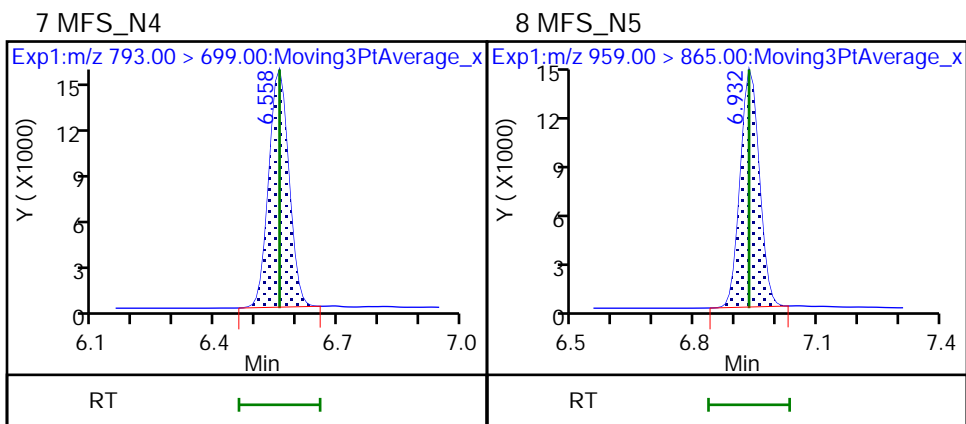
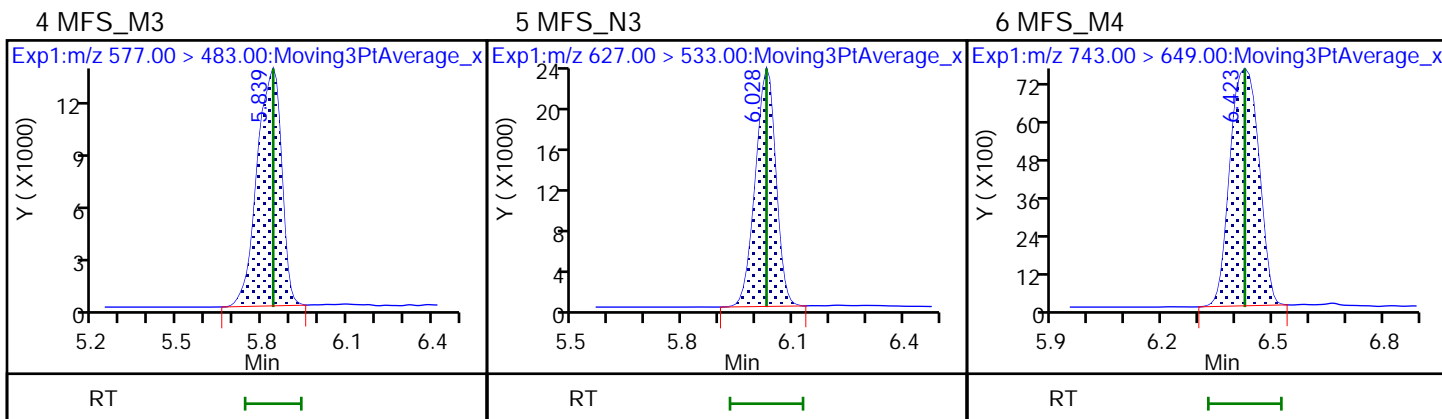
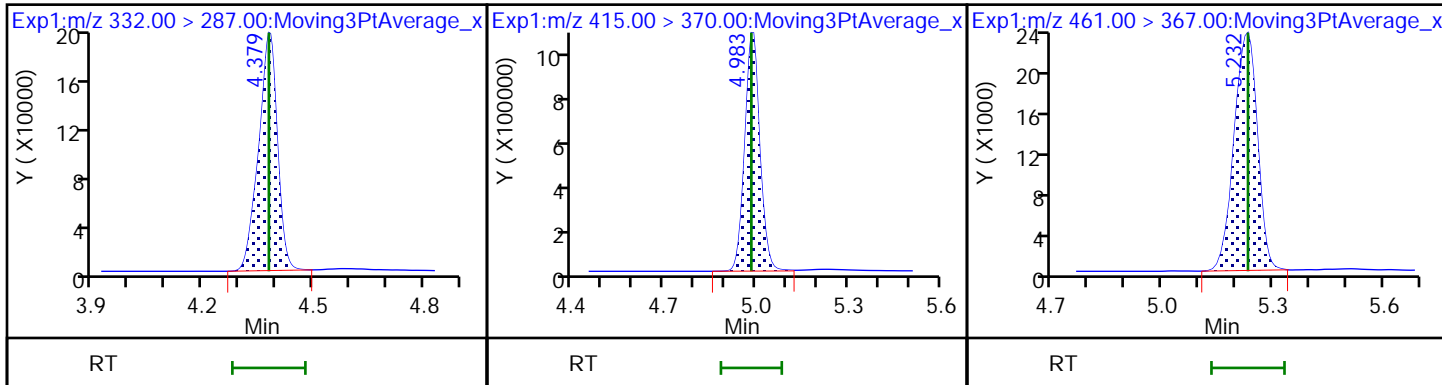
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-283896/11 Calibration Date: 08/08/2022 21:02
 Instrument ID: 30733 Calib Start Date: 08/05/2022 08:53
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/05/2022 10:08
 Lab File ID: 22AUG08MFS-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.022		1.02	0.964	5.5	30.0
MFS_M3	L1ID		2.224		1.00	0.985	2.0	30.0
MFS_N3	L1ID		2.552		1.05	1.00	4.9	30.0
MFS_M4	L1ID		1.180		1.05	0.982	6.8	30.0
MFS_N4	L1ID		1.437		1.12	0.995	12.1	30.0
MFS_N5	L1ID		1.288		1.04	1.01	2.6	30.0
13C3 HFPO-DA	Ave	0.2019	0.1902		4.71	5.00	-5.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-13.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 08-Aug-2022 21:02:08 ALS Bottle#: 4 Worklist Smp#: 11
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 12 Rack: 1 410-0063649-011
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1

Method: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 09-Aug-2022 09:43:30 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSICAL-11.d

Column 1 : Det: EXP1
 Process Host: CTX1682

First Level Reviewer: JVK6 Date: 09-Aug-2022 09:25:30

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.389	4.379	0.010	0.879	618931	4.71	94.2	242
* 2 13C2 PFOA	415.00 > 370.00	4.992	4.983	0.009		3254295	5.00		330
3 MFS_N2	461.00 > 367.00	5.236	5.232	0.004	1.193	360647	1.02	105	558
4 MFS_M3	577.00 > 483.00	5.844	5.839	0.005	1.331	271143	1.00	102	168
5 MFS_N3	627.00 > 533.00	6.031	6.028	0.003	1.374	316365	1.05	105	331
6 MFS_M4	743.00 > 649.00	6.426	6.423	0.003	1.464	143375	1.05	107	235
7 MFS_N4	793.00 > 699.00	6.559	6.558	0.001	1.494	177026	1.12	112	383
8 MFS_N5	959.00 > 865.00	6.942	6.932	0.010	1.582	160992	1.04	103	690

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220808-63649.b\22AUG08MFS-13.d

Injection Date: 08-Aug-2022 21:02:08

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 11

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

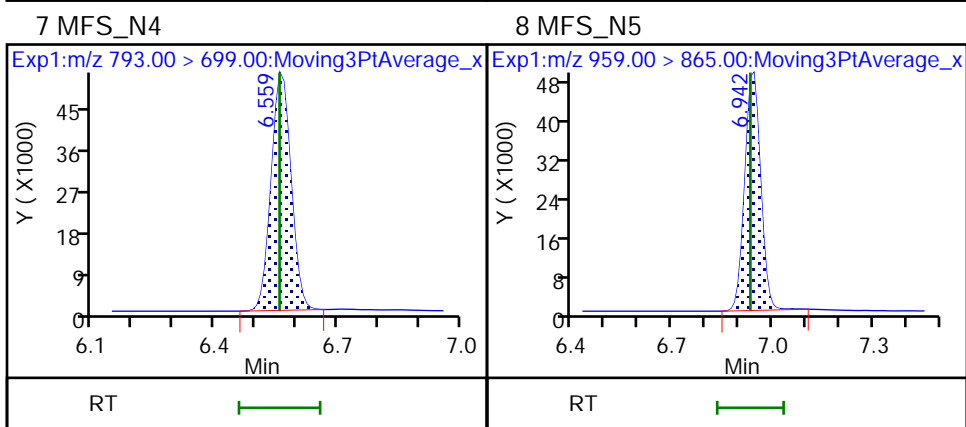
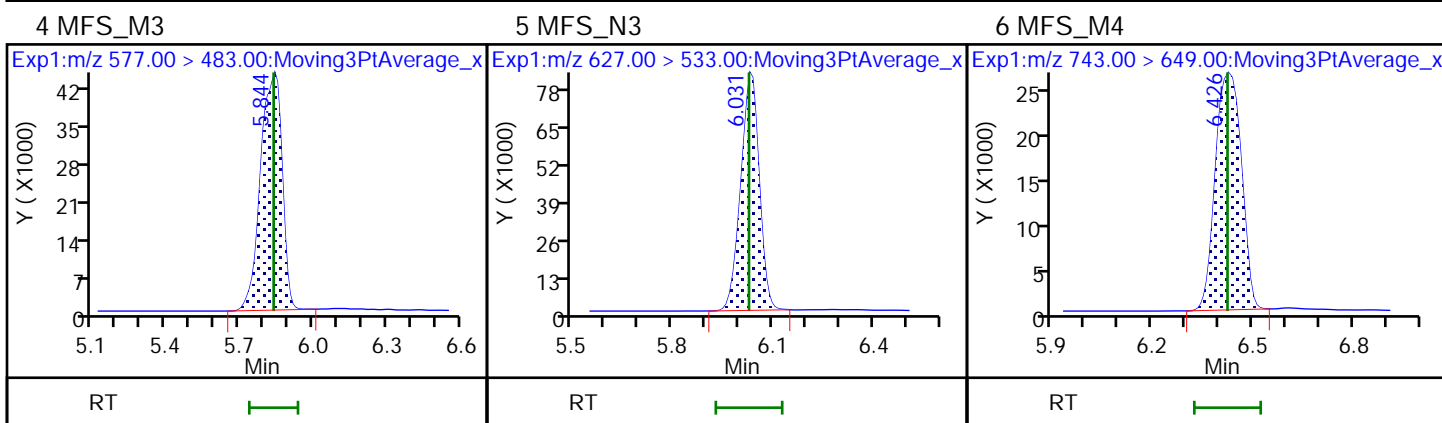
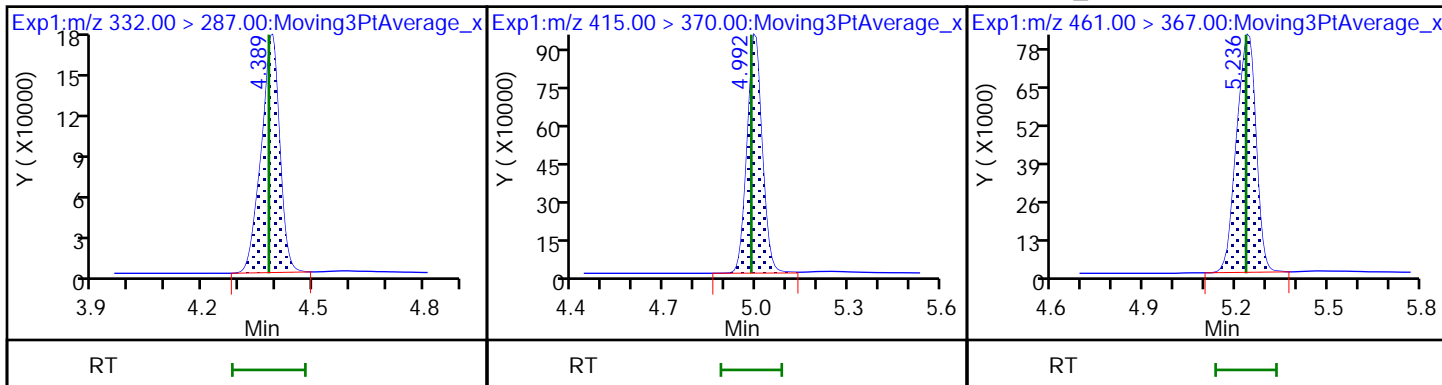
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: ICV 410-285701/9 Calibration Date: 08/14/2022 00:03
 Instrument ID: 30733 Calib Start Date: 08/13/2022 22:21
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/13/2022 23:38
 Lab File ID: 22AUG13MFS-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.806		0.986	0.964	2.2	30.0
MFS_M3	L1ID		2.164		0.982	0.985	-0.3	30.0
MFS_N3	L1ID		2.484		1.02	1.00	2.0	30.0
MFS_M4	L1ID		1.239		1.04	0.982	6.3	30.0
MFS_N4	Q2ID		1.423		0.979	0.995	-1.6	30.0
MFS_N5	Q2ID		1.318		1.01	1.01	-0.0	30.0
13C3 HFPO-DA	Ave	0.2007	0.2004		4.99	5.00	-0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-09.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 14-Aug-2022 00:03:24 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-009
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist:

Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:30 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:10:09

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.346	4.342	0.004	0.878	677274	4.99	99.8	665
* 2 13C2 PFOA	415.00 > 370.00	4.950	4.949	0.001		3379819	5.00		953
3 MFS_N2	461.00 > 367.00	5.193	5.192	0.001	1.195	366408	0.9856		1239
4 MFS_M3	577.00 > 483.00	5.809	5.808	0.001	1.336	288626	0.9820		250
5 MFS_N3	627.00 > 533.00	5.994	5.993	0.001	1.379	336849	1.02		487
6 MFS_M4	743.00 > 649.00	6.380	6.386	-0.006	1.468	164705	1.04		452
7 MFS_N4	793.00 > 699.00	6.514	6.511	0.003	1.499	191885	0.9793		467
8 MFS_N5	959.00 > 865.00	6.888	6.885	0.003	1.585	180249	1.01		906

QC Flag Legend

Processing Flags

Reagents:

PFC_ICV_MFS_00010 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-09.d

Injection Date: 14-Aug-2022 00:03:24

Instrument ID: 30733

Lims ID: ICV

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

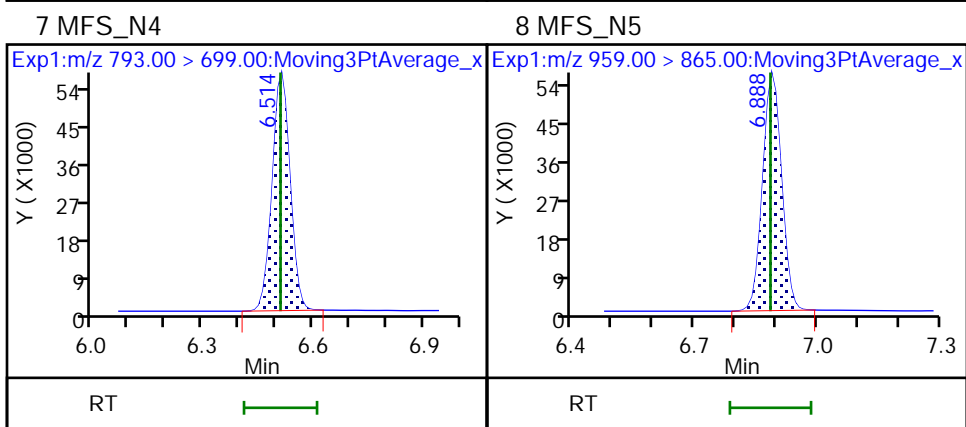
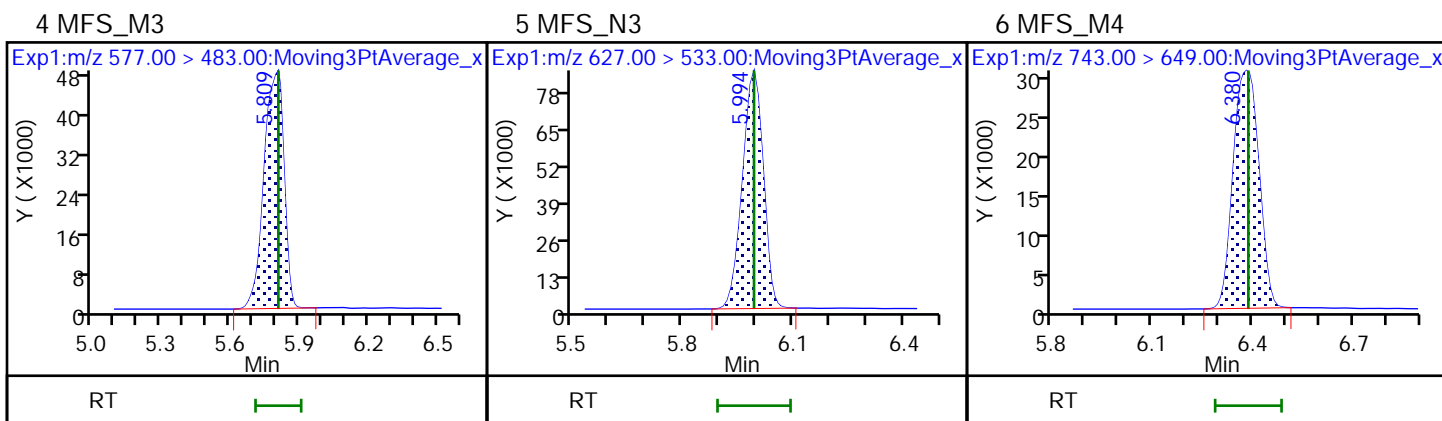
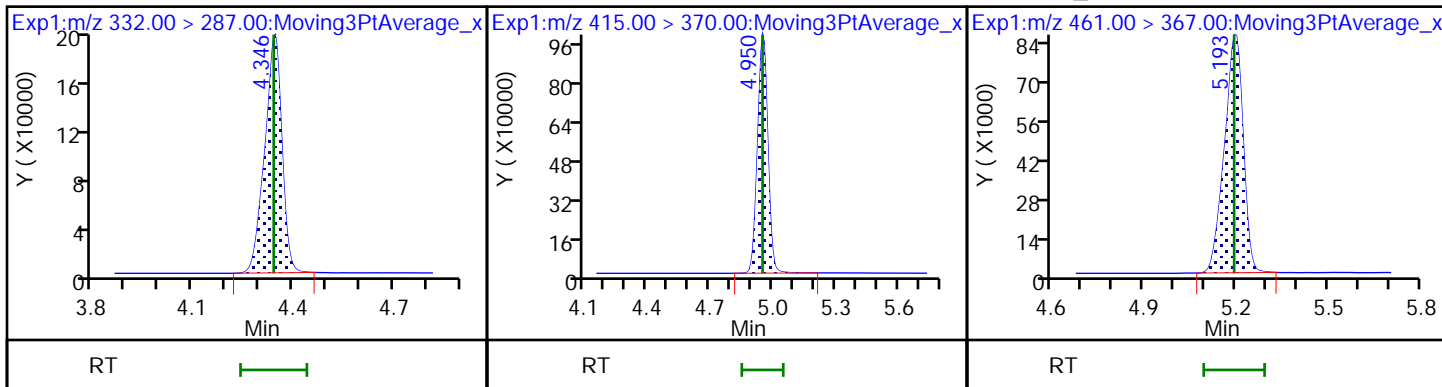
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCVL 410-285703/1 Calibration Date: 08/14/2022 00:41
 Instrument ID: 30733 Calib Start Date: 08/13/2022 22:21
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/13/2022 23:38
 Lab File ID: 22AUG13MFS-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		3.039		0.223	0.241	-7.3	50.0
MFS_M3	L1ID		2.541		0.233	0.246	-5.4	50.0
MFS_N3	L1ID		2.661		0.239	0.250	-4.5	50.0
MFS_M4	L1ID		1.338		0.235	0.245	-4.1	50.0
MFS_N4	Q2ID		1.625		0.271	0.249	8.9	50.0
MFS_N5	Q2ID		1.375		0.273	0.252	8.1	50.0
13C3 HFPO-DA	Ave	0.2007	0.1939		4.83	5.00	-3.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-12.d
 Lims ID: CCVL 1_CAL1
 Client ID:
 Sample Type: CCVL
 Inject. Date: 14-Aug-2022 00:41:10 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL 1_CAL1
 Misc. Info.: Plate: 10 Rack: 1 410-0064072-001
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:15:23 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:14:41

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.345	4.342	0.003	0.878	634234	4.83	96.6	632
* 2 13C2 PFOA	415.00 > 370.00	4.948	4.949	-0.001		3271389	5.00		850
3 MFS_N2	461.00 > 367.00	5.199	5.192	0.007	1.196	92907	0.2234	92.7	443
4 MFS_M3	577.00 > 483.00	5.805	5.808	-0.003	1.336	79352	0.2328	94.6	131
5 MFS_N3	627.00 > 533.00	5.990	5.993	-0.003	1.378	84481	0.2390	95.5	366
6 MFS_M4	743.00 > 649.00	6.394	6.386	0.008	1.471	41661	0.2354	95.9	319
7 MFS_N4	793.00 > 699.00	6.520	6.511	0.009	1.500	51296	0.2709	109	236
8 MFS_N5	959.00 > 865.00	6.893	6.885	0.008	1.586	44032	0.2728	108	519

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS1_00009 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-12.d

Injection Date: 14-Aug-2022 00:41:10

Instrument ID: 30733

Lims ID: CCVL 1_CAL1

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 2

Worklist Smp#: 1

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

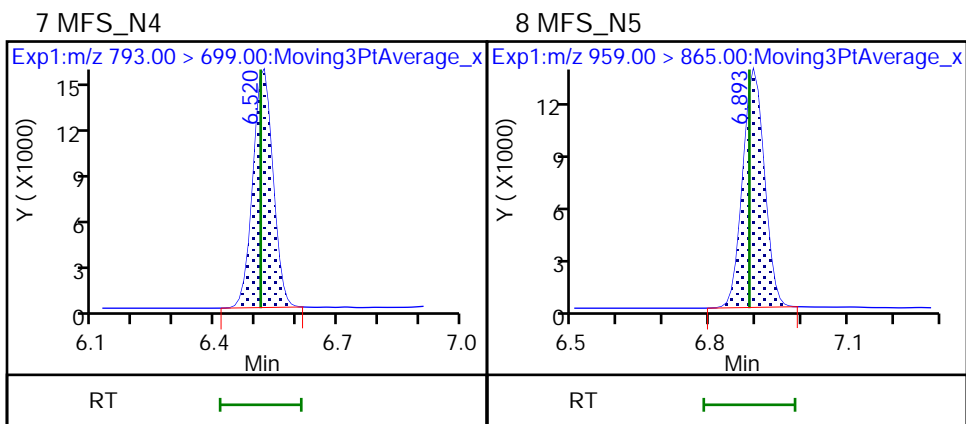
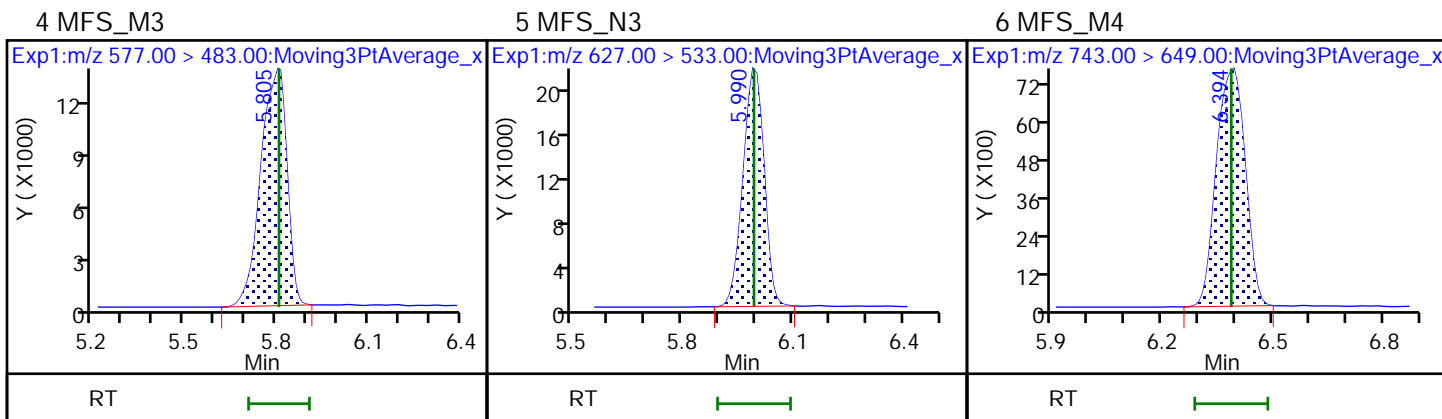
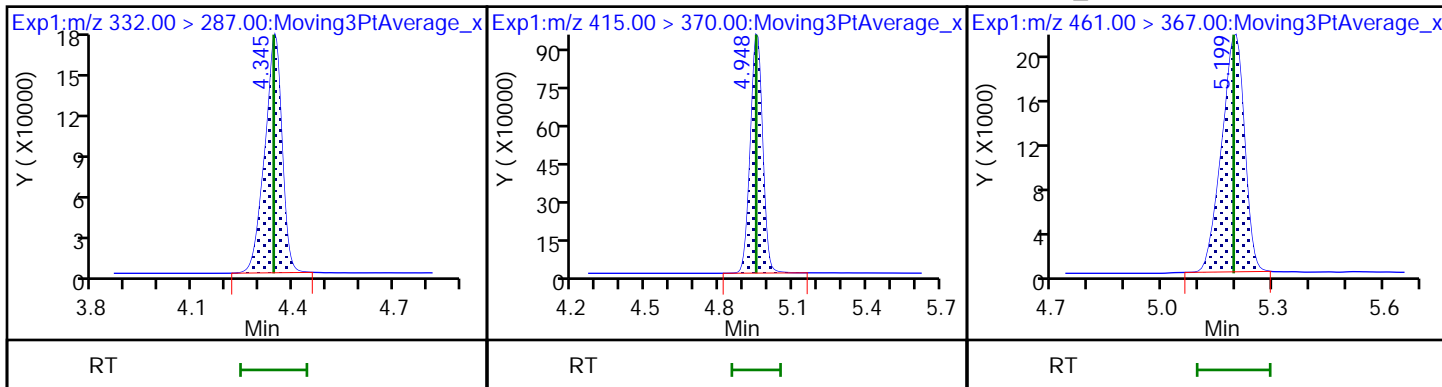
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1
 SDG No.: _____
 Lab Sample ID: CCV 410-285703/7 Calibration Date: 08/14/2022 01:56
 Instrument ID: 30733 Calib Start Date: 08/13/2022 22:21
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 08/13/2022 23:38
 Lab File ID: 22AUG13MFS-18.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
MFS_N2	L1ID		2.942		1.04	0.964	7.5	30.0
MFS_M3	L1ID		2.251		1.02	0.985	4.0	30.0
MFS_N3	L1ID		2.581		1.06	1.00	6.2	30.0
MFS_M4	L1ID		1.321		1.12	0.982	13.8	30.0
MFS_N4	Q2ID		1.618		1.12	0.995	12.1	30.0
MFS_N5	Q2ID		1.350		1.03	1.01	2.4	30.0
13C3 HFPO-DA	Ave	0.2007	0.1917		4.77	5.00	-4.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-18.d
 Lims ID: CCV 2_CAL3
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Aug-2022 01:56:47 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2_CAL3
 Misc. Info.: Plate: 10 Rack: 1 410-0064072-007
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Sublist: chrom-MFS_IDA_30733*sub1
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:15:25 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:14:50

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.350	4.342	0.008	0.878	625280	4.77	95.5	616
* 2 13C2 PFOA	415.00 > 370.00	4.956	4.949	0.007		3262353	5.00		839
3 MFS_N2	461.00 > 367.00	5.199	5.192	0.007	1.195	354625	1.04	107	1561
4 MFS_M3	577.00 > 483.00	5.808	5.808	0.0	1.335	277162	1.02	104	281
5 MFS_N3	627.00 > 533.00	6.004	5.993	0.011	1.380	323246	1.06	106	533
6 MFS_M4	743.00 > 649.00	6.388	6.386	0.002	1.469	162164	1.12	114	459
7 MFS_N4	793.00 > 699.00	6.523	6.511	0.012	1.500	201315	1.12	112	535
8 MFS_N5	959.00 > 865.00	6.897	6.885	0.012	1.586	170542	1.03	102	847

QC Flag Legend

Processing Flags

Reagents:

PFC_STD_MFS3_00008 Amount Added: 200.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-18.d

Injection Date: 14-Aug-2022 01:56:47

Instrument ID: 30733

Lims ID: CCV 2_CAL3

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

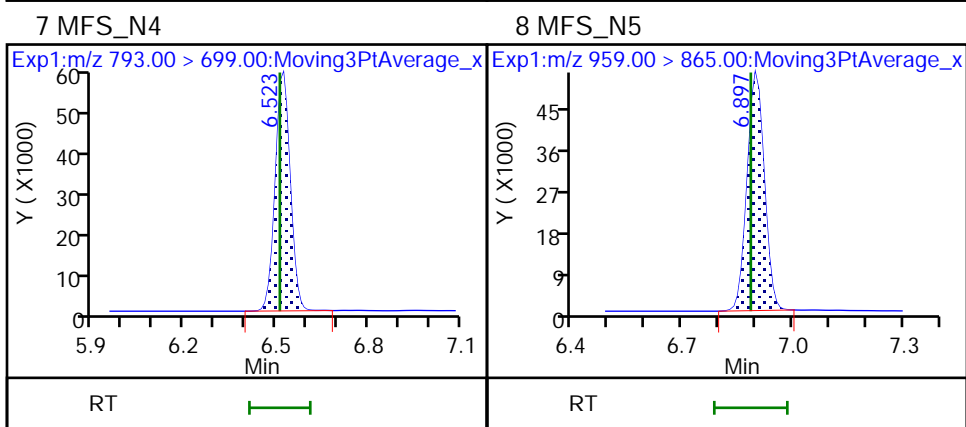
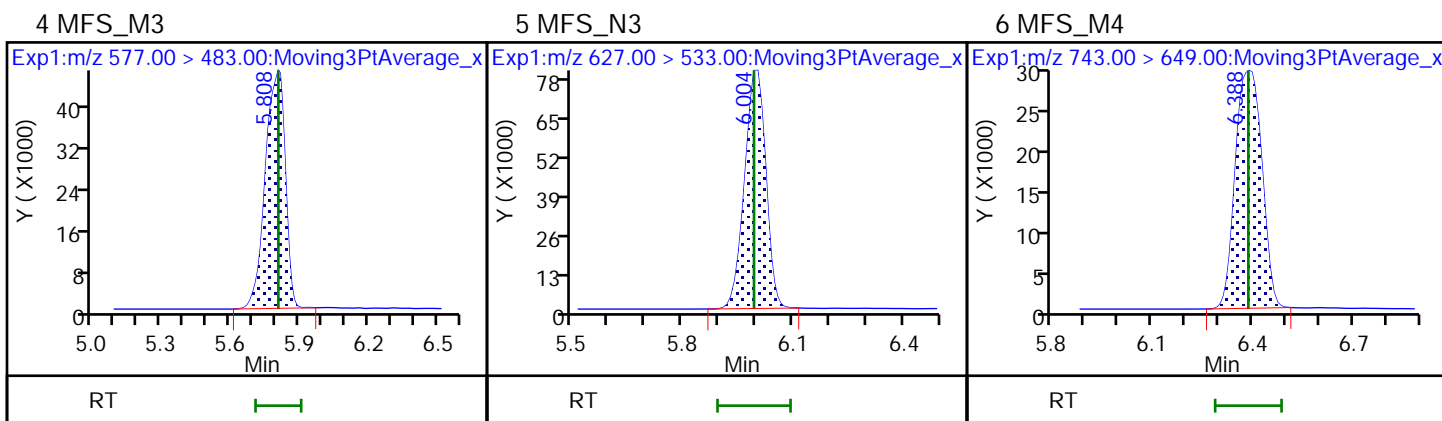
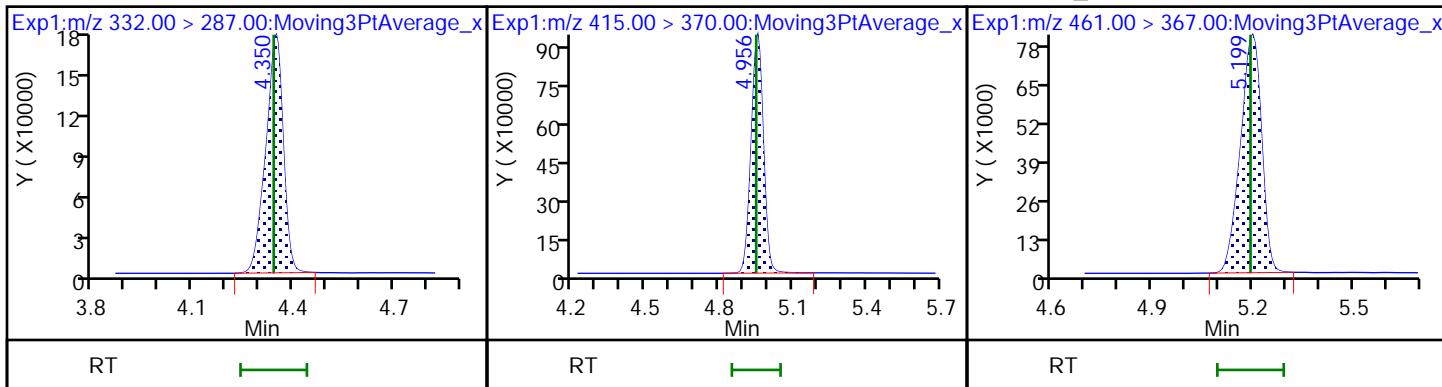
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-279532/1-A

Matrix: Water Lab File ID: 22AUG5MFS-02.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 12:31

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-02.d
 Lims ID: MB 410-279532/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Aug-2022 12:31:34 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-279532/1-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 10:54:46
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.394	4.400	-0.006	0.878	642296	4.26	85.2	3429
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3731777	5.00		6335
3 MFS_N2	461.00 > 367.00	5.250	5.252	-0.002	1.195	7897	-0.0588		70.5

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-02.d

Injection Date: 05-Aug-2022 12:31:34

Instrument ID: 30733

Lims ID: MB 410-279532/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

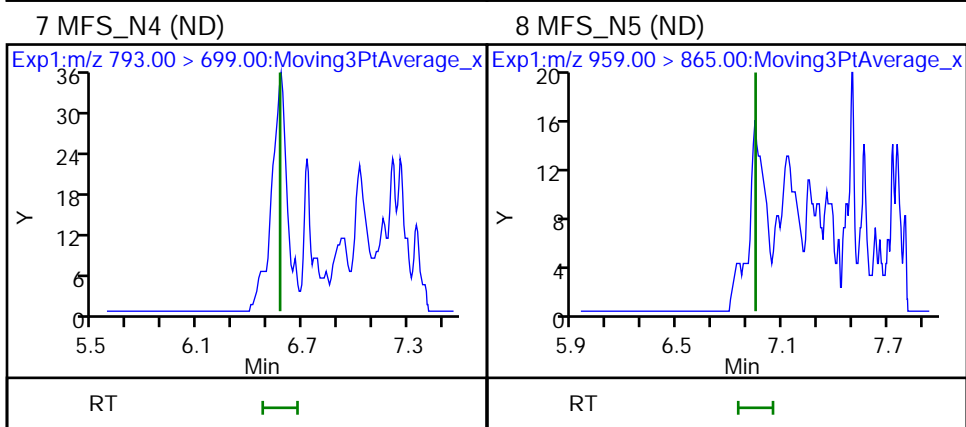
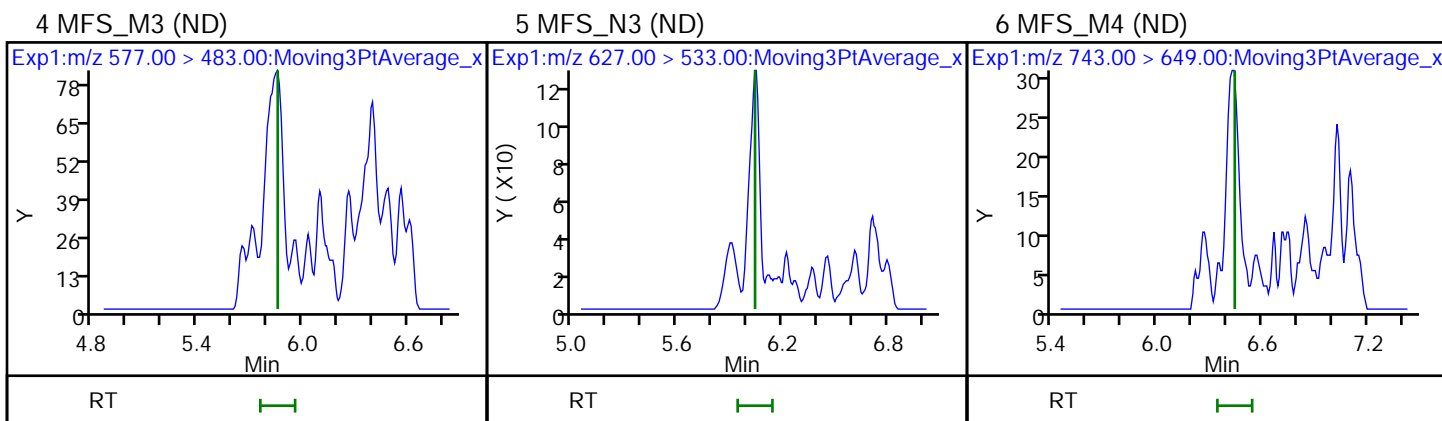
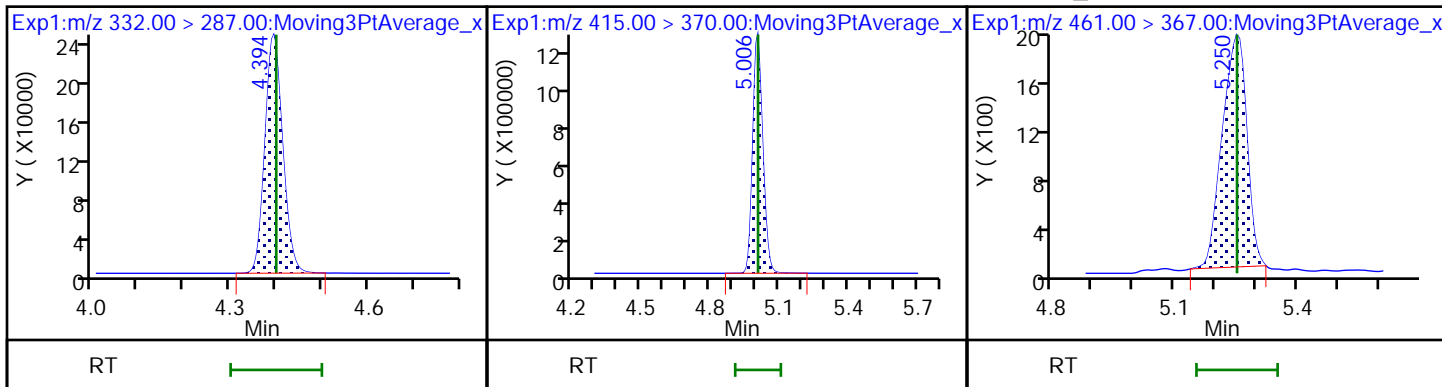
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-285099/1-A

Matrix: Water Lab File ID: 22AUG13MFS-13.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 11:17

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 00:53

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285703 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		1.0	0.20
STL02874	MFS_M3	ND		1.0	0.20
STL02875	MFS_N3	ND		1.0	0.20
STL02876	MFS_M4	ND		1.0	0.50
STL02877	MFS_N4	ND		2.0	1.0
STL02888	MFS_N5	ND		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-13.d
 Lims ID: MB 410-285099/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 14-Aug-2022 00:53:47 ALS Bottle#: 10 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-285099/1-A
 Misc. Info.: Plate: 10 Rack: 1 410-0064072-002
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:15:23 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:15:00

Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.350	4.342	0.008	0.878	651655	5.05	101	862
* 2 13C2 PFOA	415.00 > 370.00	4.955	4.949	0.006		3214703	5.00		974

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-13.d

Injection Date: 14-Aug-2022 00:53:47

Instrument ID: 30733

Lims ID: MB 410-285099/1-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 10

Worklist Smp#: 2

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

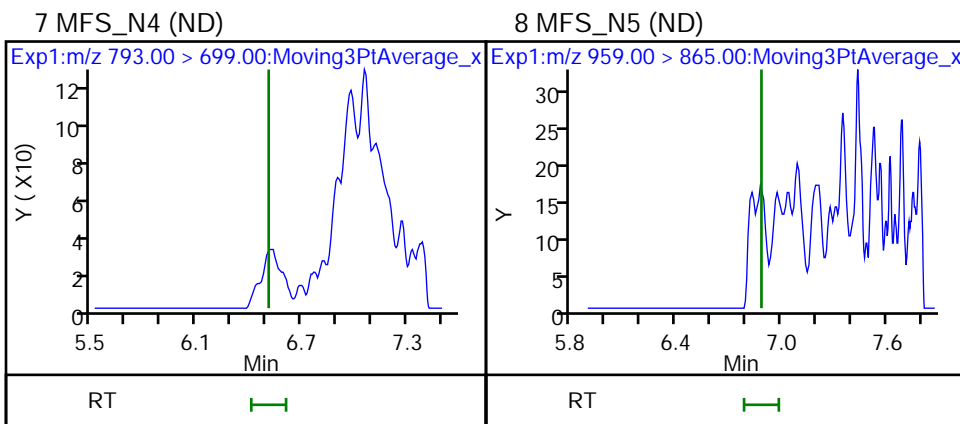
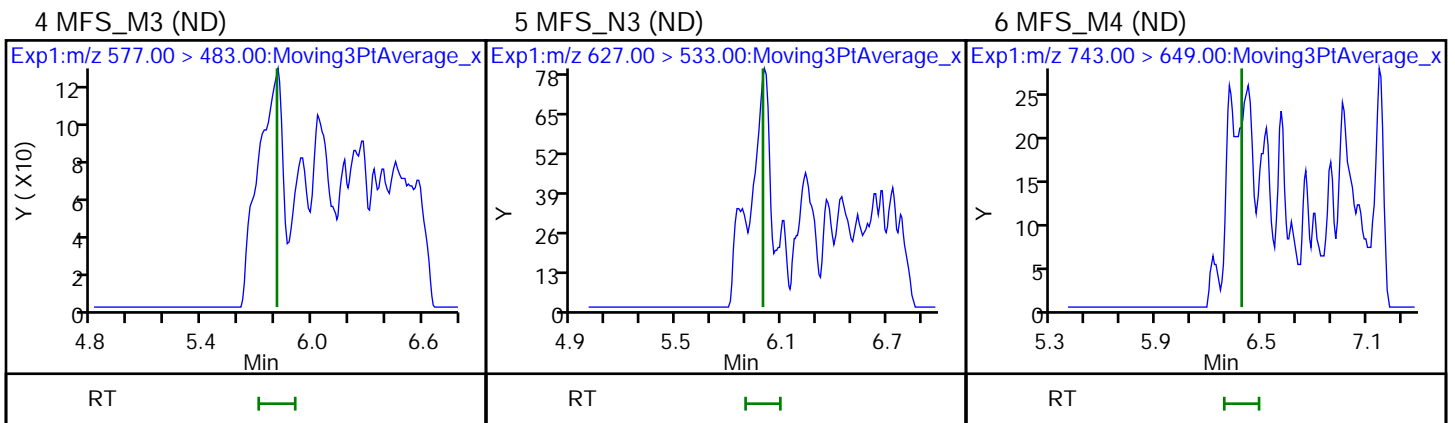
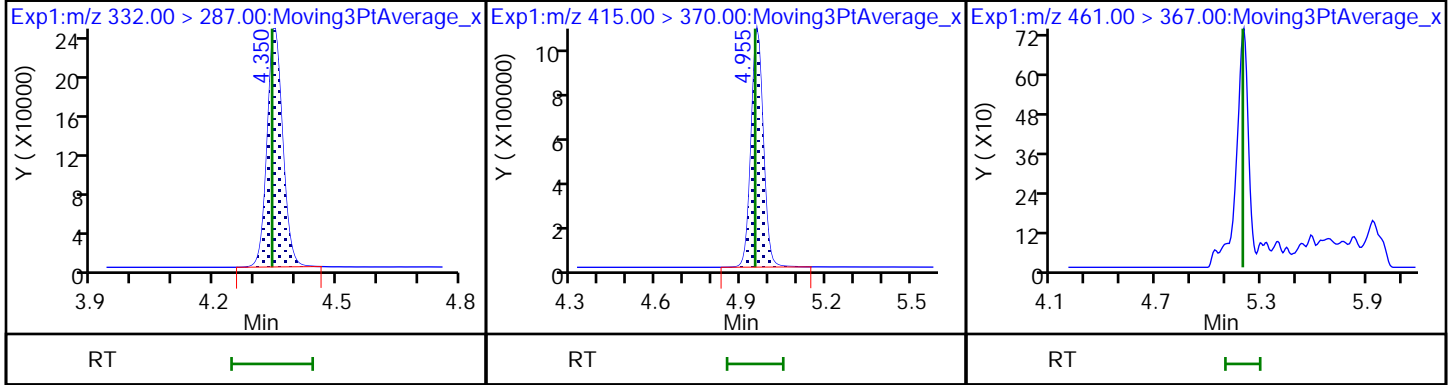
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-283151/8

Matrix: Water Lab File ID: 22AUG05MFSCAL-12.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/05/2022 10:21

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283151 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 05-Aug-2022 10:21:32 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 12 Rack: 1 410-0063372-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 05-Aug-2022 11:18:40 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: DCS9 Date: 05-Aug-2022 11:16:19
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.387	4.389	-0.002	0.878	648984	5.14	103	2787
* 2 13C2 PFOA	415.00 > 370.00	4.996	4.998	-0.002		3128259	5.00		4711
8 MFS_N5	959.00 > 865.00	6.947	6.942	0.005	1.584	1102	-0.0156		30.3

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-12.d

Injection Date: 05-Aug-2022 10:21:32

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

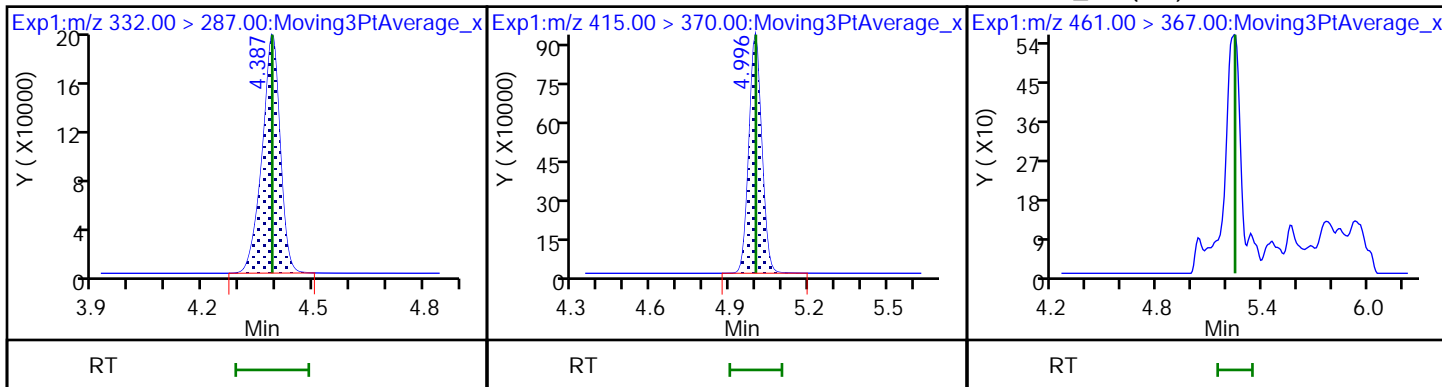
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

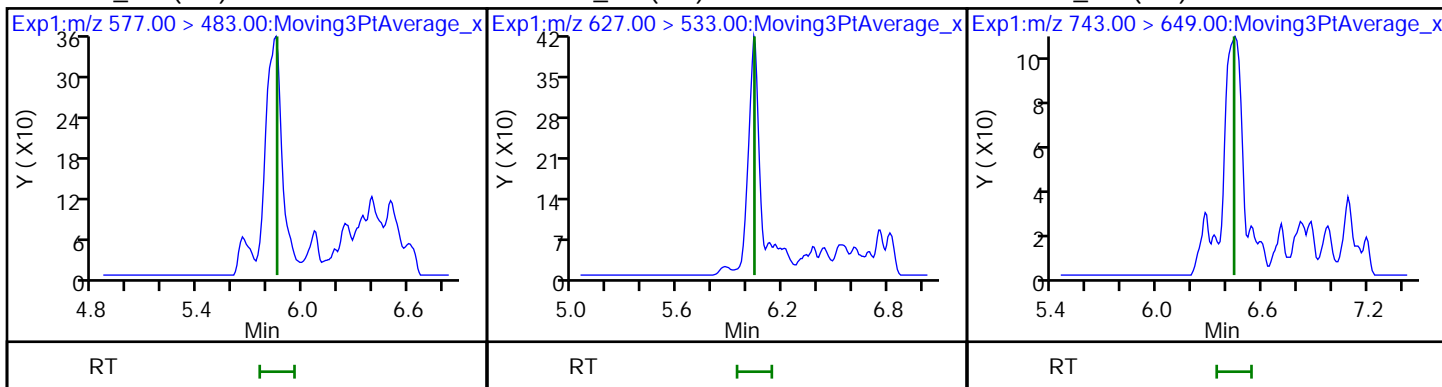
3 MFS_N2 (ND)



4 MFS_M3 (ND)

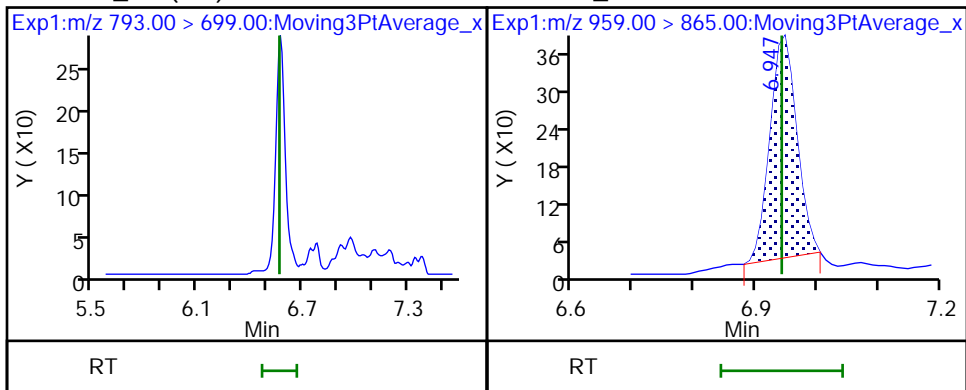
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 410-285701/8

Matrix: Water Lab File ID: 22AUG13MFS-08.d

Analysis Method: MFS Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 0 (mL) Date Analyzed: 08/13/2022 23:50

Con. Extract Vol.: _____ Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285701 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	ND		0.025	0.013
STL02874	MFS_M3	ND		0.025	0.013
STL02875	MFS_N3	ND		0.025	0.013
STL02876	MFS_M4	ND		0.025	0.013
STL02877	MFS_N4	ND		0.025	0.013
STL02888	MFS_N5	ND		0.025	0.013

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-08.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 13-Aug-2022 23:50:47 ALS Bottle#: 1 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: Plate: 10 Rack: 1 410-0064069-008
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:11:18 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d

Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:10:04
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.346	4.342	0.004	0.877	641831	5.13	103	671
* 2 13C2 PFOA	415.00 > 370.00	4.956	4.949	0.007		3119613	5.00		884

QC Flag Legend

Processing Flags

Reagents:

PFC_INT__00012 Amount Added: 10.00 Units: uL
 PFC_IS_MOD_00364 Amount Added: 50.00 Units: uL

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-08.d

Injection Date: 13-Aug-2022 23:50:47

Instrument ID: 30733

Lims ID: ICB

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

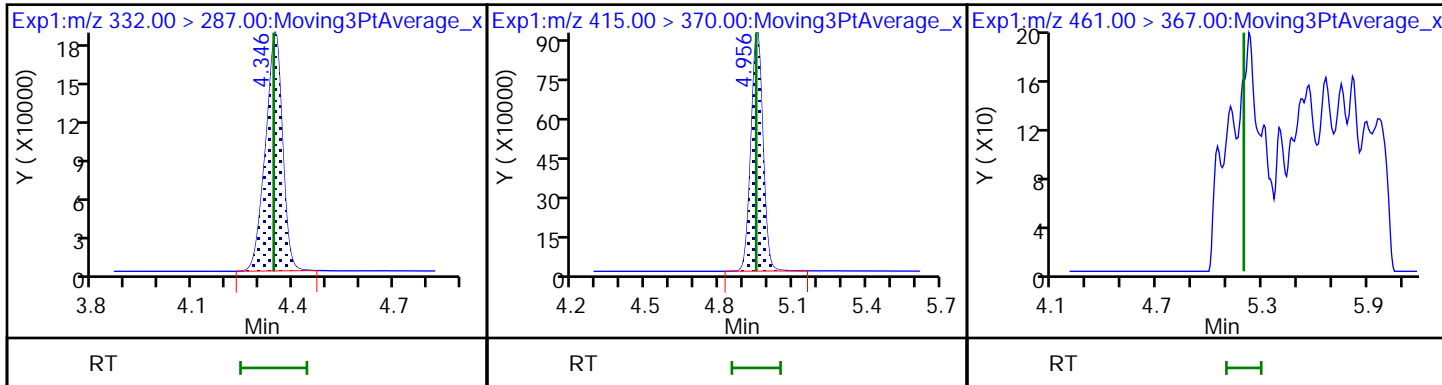
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

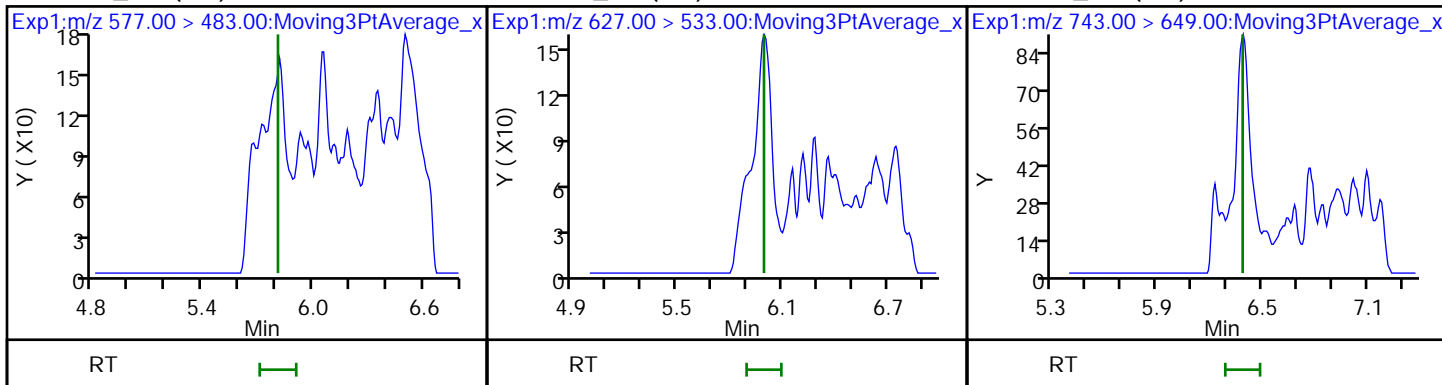
3 MFS_N2 (ND)



4 MFS_M3 (ND)

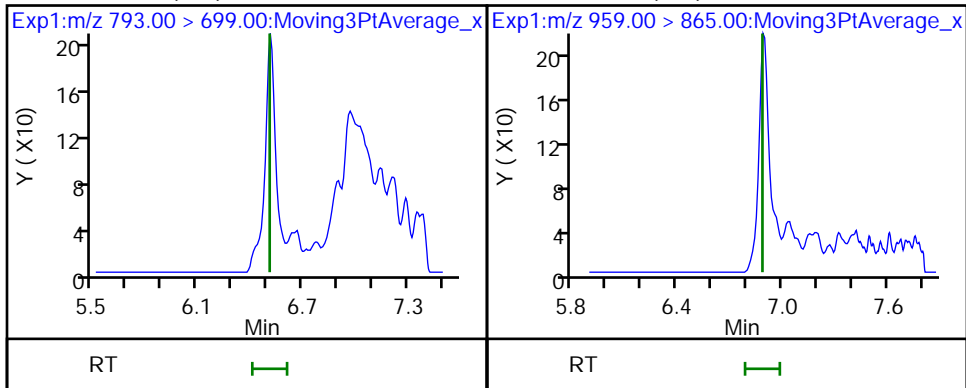
5 MFS_N3 (ND)

6 MFS_M4 (ND)



7 MFS_N4 (ND)

8 MFS_N5 (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-279532/2-A

Matrix: Water Lab File ID: 22AUG5MFS-03.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 07/26/2022 09:35

Sample wt/vol: 250 (mL) Date Analyzed: 08/05/2022 12:44

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 283250 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	41.7		1.0	0.20
STL02874	MFS_M3	42.4		1.0	0.20
STL02875	MFS_N3	40.3		1.0	0.20
STL02876	MFS_M4	42.0		1.0	0.50
STL02877	MFS_N4	41.7		2.0	1.0
STL02888	MFS_N5	41.7		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-03.d
 Lims ID: LCS 410-279532/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Aug-2022 12:44:11 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-279532/2-A
 Misc. Info.: Plate: 12 Rack: 1 410-0063503-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 06-Aug-2022 11:09:10 Calib Date: 05-Aug-2022 10:08:54
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220805-63474.b\22AUG05MFSCAL-11.d
 Column 1 : Det: EXP1
 Process Host: CTX1627

First Level Reviewer: DCS9 Date: 06-Aug-2022 11:02:42
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.398	4.400	-0.002	0.879	676486	4.46	89.2	3173
* 2 13C2 PFOA	415.00 > 370.00	5.006	5.007	-0.001		3757354	5.00		6392
3 MFS_N2	461.00 > 367.00	5.258	5.252	0.006	1.195	3767457	10.4	108	19406
4 MFS_M3	577.00 > 483.00	5.857	5.857	0.0	1.332	2924334	10.6	108	3602
5 MFS_N3	627.00 > 533.00	6.050	6.042	0.008	1.375	3206438	10.1	101	5736
6 MFS_M4	743.00 > 649.00	6.440	6.440	0.0	1.464	1484476	10.5	107	6063
7 MFS_N4	793.00 > 699.00	6.571	6.571	0.0	1.494	1665281	10.4	105	7868
8 MFS_N5	959.00 > 865.00	6.945	6.945	0.0	1.579	1738944	10.4	103	12189

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00371 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220805-63503.b\22AUG5MFS-03.d

Injection Date: 05-Aug-2022 12:44:11

Instrument ID: 30733

Lims ID: LCS 410-279532/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

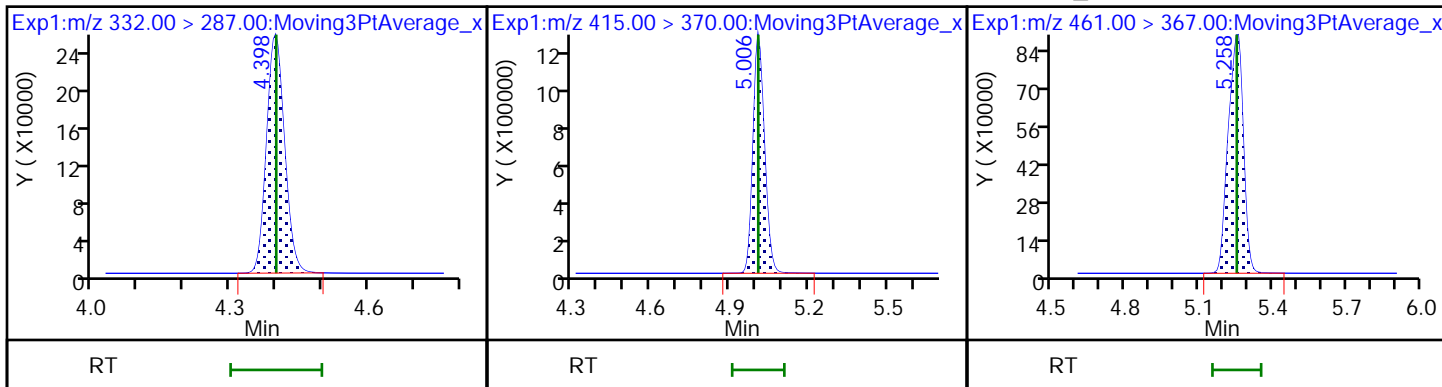
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

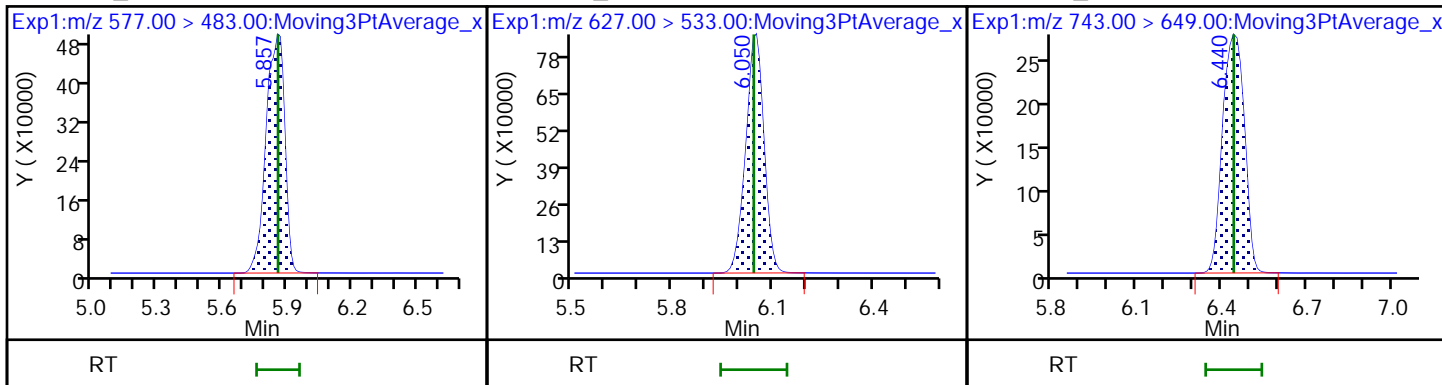
3 MFS_N2



4 MFS_M3

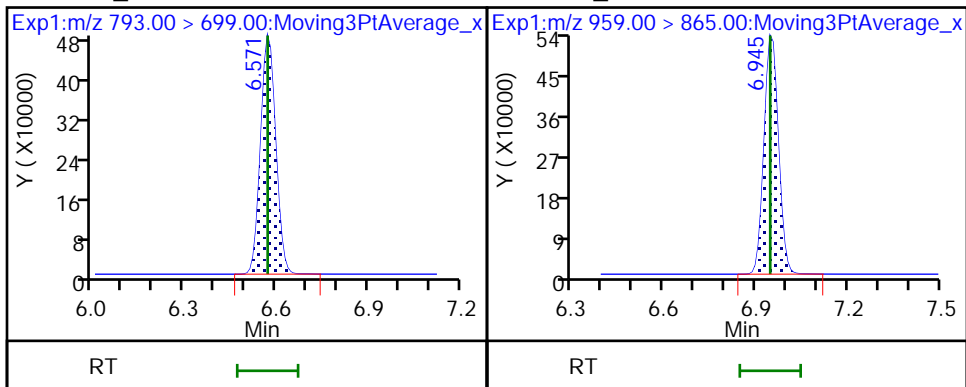
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-285099/2-A

Matrix: Water Lab File ID: 22AUG13MFS-14.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 11:17

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 01:06

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285703 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	40.9		1.0	0.20
STL02874	MFS_M3	40.5		1.0	0.20
STL02875	MFS_N3	40.2		1.0	0.20
STL02876	MFS_M4	39.5		1.0	0.50
STL02877	MFS_N4	36.6		2.0	1.0
STL02888	MFS_N5	32.4		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-14.d
 Lims ID: LCS 410-285099/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 14-Aug-2022 01:06:24 ALS Bottle#: 11 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-285099/2-A
 Misc. Info.: Plate: 10 Rack: 1 410-0064072-003
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:15:23 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:15:06
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
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D 1 13C3 HFPO-DA	332.00 > 287.00	4.353	4.342	0.011	0.877	658805	5.02	100	917
* 2 13C2 PFOA	415.00 > 370.00	4.961	4.949	0.012		3266908	5.00		1094
3 MFS_N2	461.00 > 367.00	5.209	5.192	0.017	1.197	3510057	10.2	106	8432
4 MFS_M3	577.00 > 483.00	5.819	5.808	0.011	1.337	2698619	10.1	103	453
5 MFS_N3	627.00 > 533.00	6.006	5.993	0.013	1.380	3095093	10.0	100	639
6 MFS_M4	743.00 > 649.00	6.391	6.386	0.005	1.468	1440203	9.89	101	540
7 MFS_N4	793.00 > 699.00	6.526	6.511	0.015	1.499	1636697	9.15	91.9	761
8 MFS_N5	959.00 > 865.00	6.899	6.885	0.014	1.585	1388322	8.10	80.2	1303

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-14.d

Injection Date: 14-Aug-2022 01:06:24

Instrument ID: 30733

Lims ID: LCS 410-285099/2-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 11

Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

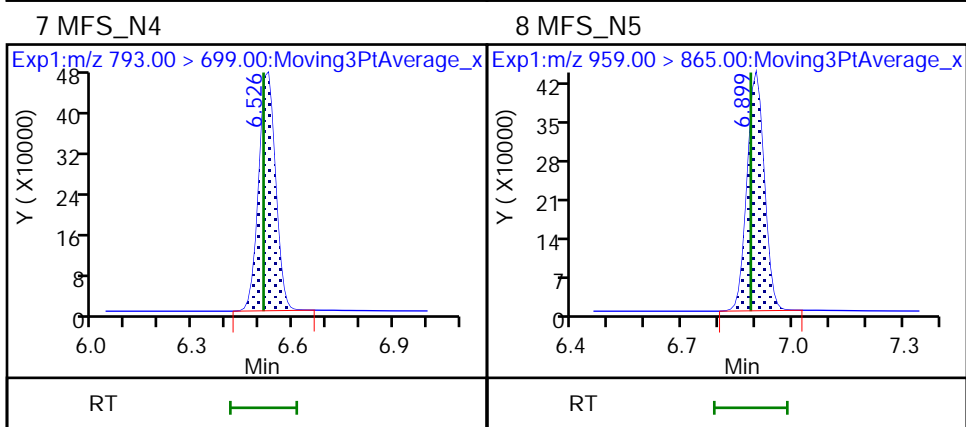
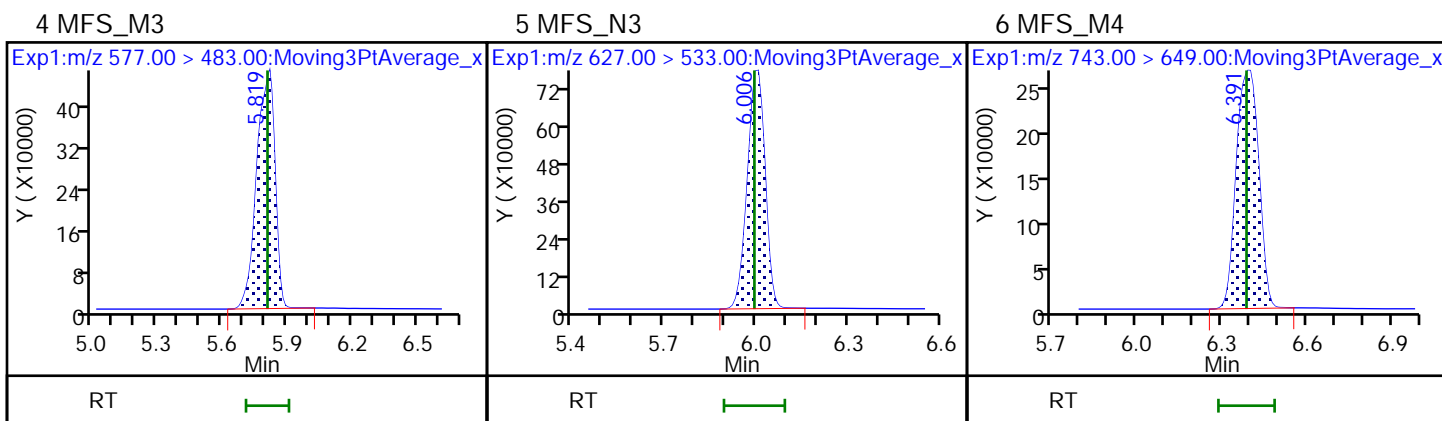
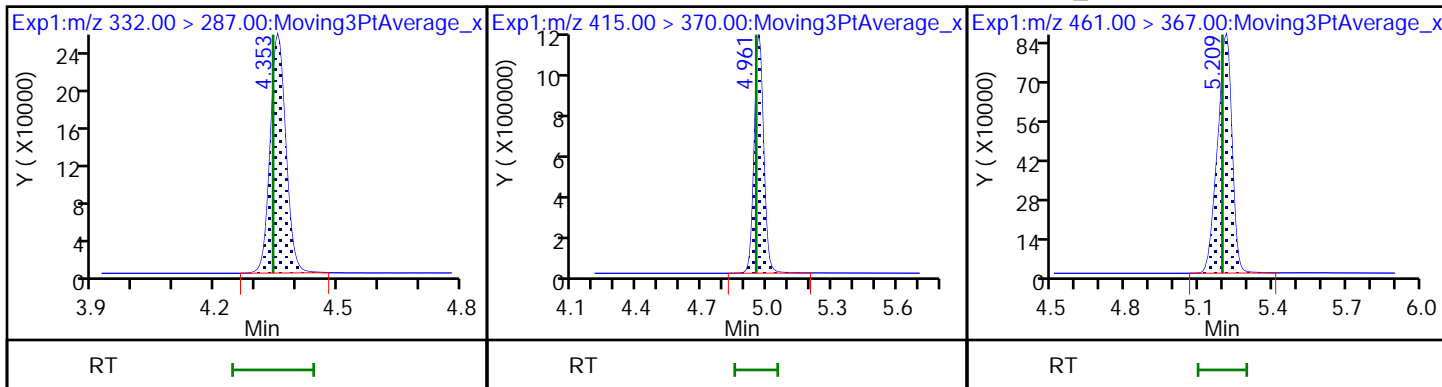
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

3 MFS_N2



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-91186-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-285099/3-A

Matrix: Water Lab File ID: 22AUG13MFS-15.d

Analysis Method: MFS Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/11/2022 11:17

Sample wt/vol: 250 (mL) Date Analyzed: 08/14/2022 01:18

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 285703 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL02873	MFS_N2	40.7		1.0	0.20
STL02874	MFS_M3	40.1		1.0	0.20
STL02875	MFS_N3	40.3		1.0	0.20
STL02876	MFS_M4	38.4		1.0	0.50
STL02877	MFS_N4	34.7		2.0	1.0
STL02888	MFS_N5	25.7		3.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	111		50-150

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-15.d
 Lims ID: LCSD 410-285099/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 14-Aug-2022 01:18:59 ALS Bottle#: 12 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 410-285099/3-A
 Misc. Info.: Plate: 10 Rack: 1 410-0064072-004
 Operator ID: US19_USR_INS20260 Instrument ID: 30733
 Method: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\MFS_IDA_30733.m
 Limit Group: LC - MFS_IDA
 Last Update: 15-Aug-2022 07:15:23 Calib Date: 13-Aug-2022 23:38:12
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\30733\20220813-64069.b\22AUG13MFS-07.d
 Column 1 : Det: EXP1
 Process Host: CTX1639

First Level Reviewer: JVK6 Date: 15-Aug-2022 07:15:12
 Ratio Calibration: Initial Calibration Level: 3

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	------	-----	-------

D 1 13C3 HFPO-DA	332.00 > 287.00	4.356	4.342	0.014	0.877	718536	5.57	111	902
* 2 13C2 PFOA	415.00 > 370.00	4.964	4.949	0.015		3215401	5.00		1001
3 MFS_N2	461.00 > 367.00	5.208	5.192	0.016	1.196	3810765	10.2	106	8169
4 MFS_M3	577.00 > 483.00	5.818	5.808	0.010	1.336	2917698	10.0	102	426
5 MFS_N3	627.00 > 533.00	6.005	5.993	0.012	1.379	3385232	10.1	101	631
6 MFS_M4	743.00 > 649.00	6.390	6.386	0.004	1.467	1525105	9.60	97.8	661
7 MFS_N4	793.00 > 699.00	6.525	6.511	0.014	1.498	1698392	8.67	87.2	754
8 MFS_N5	959.00 > 865.00	6.898	6.885	0.013	1.584	1209443	6.43	63.7	1532

QC Flag Legend

Processing Flags

Reagents:

PFC_IS_MOD_00377 Amount Added: 20.00 Units: uL Run Reagent

Data File: \\chromfs\Lancaster\ChromData\30733\20220813-64072.b\22AUG13MFS-15.d

Injection Date: 14-Aug-2022 01:18:59

Instrument ID: 30733

Lims ID: LCSD 410-285099/3-A

Client ID:

Operator ID: US19_USR_INS20260

ALS Bottle#: 12

Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

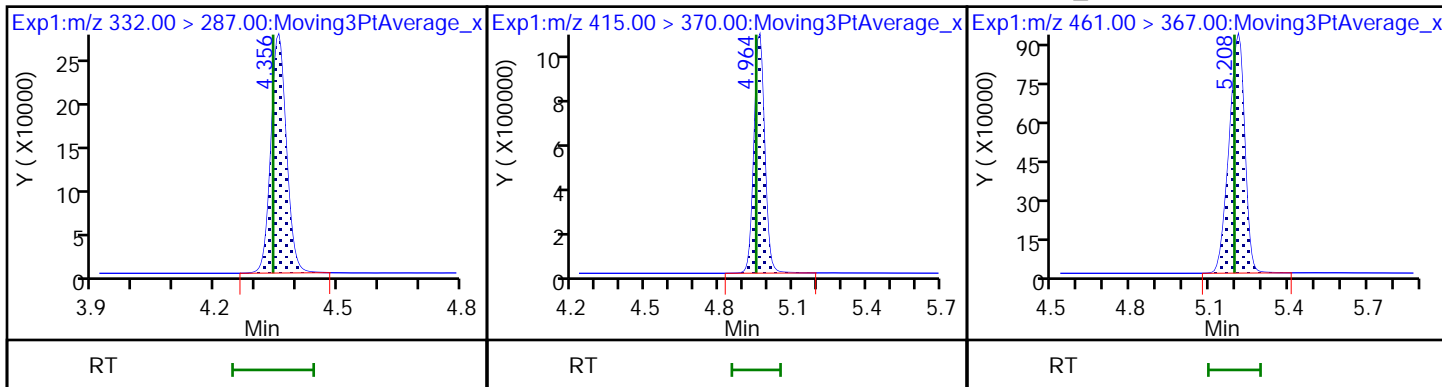
Method: MFS_IDA_30733

Limit Group: LC - MFS_IDA

D 1 13C3 HFPO-DA

* 2 13C2 PFOA

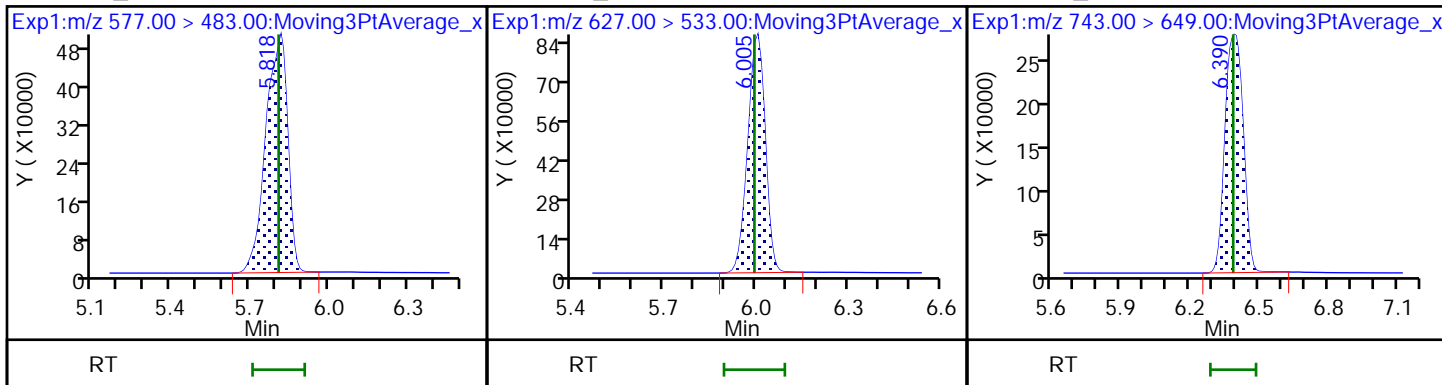
3 MFS_N2



4 MFS_M3

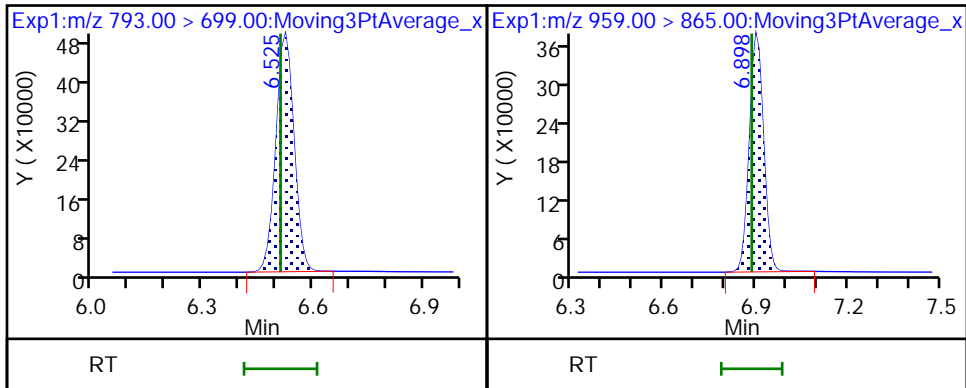
5 MFS_N3

6 MFS_M4



7 MFS_N4

8 MFS_N5



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 08:53

Analysis Batch Number: 283151 End Date: 08/05/2022 10:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-283151/1		08/05/2022 08:53	1	22AUG05MFSCAL-0 5.d	Gemini C18 50mm 3 (mm)
IC 410-283151/2		08/05/2022 09:05	1	22AUG05MFSCAL-0 6.d	Gemini C18 50mm 3 (mm)
IC 410-283151/3		08/05/2022 09:18	1	22AUG05MFSCAL-0 7.d	Gemini C18 50mm 3 (mm)
IC 410-283151/4		08/05/2022 09:31	1	22AUG05MFSCAL-0 8.d	Gemini C18 50mm 3 (mm)
ICISAV 410-283151/5		08/05/2022 09:43	1	22AUG05MFSCAL-0 9.d	Gemini C18 50mm 3 (mm)
IC 410-283151/6		08/05/2022 09:56	1	22AUG05MFSCAL-1 0.d	Gemini C18 50mm 3 (mm)
IC 410-283151/7		08/05/2022 10:08	1	22AUG05MFSCAL-1 1.d	Gemini C18 50mm 3 (mm)
ICB 410-283151/8		08/05/2022 10:21	1	22AUG05MFSCAL-1 2.d	Gemini C18 50mm 3 (mm)
ICV 410-283151/9		08/05/2022 10:34	1	22AUG05MFSCAL-1 3.d	Gemini C18 50mm 3 (mm)
CCV 410-283151/10		08/05/2022 10:46	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250 End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283250/1		08/05/2022 12:17	1	22AUG5MFS-01.d	Gemini C18 50mm 3 (mm)
MB 410-279532/1-A		08/05/2022 12:31	1	22AUG5MFS-02.d	Gemini C18 50mm 3 (mm)
LCS 410-279532/2-A		08/05/2022 12:44	1	22AUG5MFS-03.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 12:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:21	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/7		08/05/2022 13:34	1	22AUG5MFS-07.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:47	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 13:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:12	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 14:50	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 15:15	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/16		08/05/2022 15:27	1	22AUG5MFS-16.d	Gemini C18 50mm 3 (mm)
410-91186-1	EB_071222	08/05/2022 15:40	1	22AUG5MFS-17.d	Gemini C18 50mm 3 (mm)
410-91186-2	MW-39D	08/05/2022 15:52	1	22AUG5MFS-18.d	Gemini C18 50mm 3 (mm)
410-91186-3	MW-39S	08/05/2022 16:05	1	22AUG5MFS-19.d	Gemini C18 50mm 3 (mm)
410-91186-4	MW-39I	08/05/2022 16:18	1	22AUG5MFS-20.d	Gemini C18 50mm 3 (mm)
410-91186-5	EB_071322	08/05/2022 16:30	1	22AUG5MFS-21.d	Gemini C18 50mm 3 (mm)
CCVL 410-283250/23		08/05/2022 16:56	1	22AUG5MFS-23.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:08	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 17:59	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/29		08/05/2022 18:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 18:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:15	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:28	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:41	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 19:53	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:06	1		Gemini C18 50mm 3 (mm)
CCV 410-283250/39		08/05/2022 20:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 20:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 21:46	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/05/2022 12:17

Analysis Batch Number: 283250 End Date: 08/05/2022 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		08/05/2022 21:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/05/2022 22:12	1		Gemini C18 50mm 3 (mm)
CCVL 410-283250/50		08/05/2022 22:37	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/08/2022 18:56

Analysis Batch Number: 283896 End Date: 08/08/2022 21:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-283896/1		08/08/2022 18:56	1	22AUG08MFS-03.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:08	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:21	10		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:34	100		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:46	100		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 19:59	10		Gemini C18 50mm 3 (mm)
410-91186-4 DL	MW-39I DL	08/08/2022 20:11	10	22AUG08MFS-09.d	Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		08/08/2022 20:49	1		Gemini C18 50mm 3 (mm)
CCV 410-283896/11		08/08/2022 21:02	1	22AUG08MFS-13.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/13/2022 22:21

Analysis Batch Number: 285701 End Date: 08/14/2022 00:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-285701/1		08/13/2022 22:21	1	22AUG13MFS-01.d	Gemini C18 50mm 3 (mm)
IC 410-285701/2		08/13/2022 22:35	1	22AUG13MFS-02.d	Gemini C18 50mm 3 (mm)
IC 410-285701/3		08/13/2022 22:47	1	22AUG13MFS-03.d	Gemini C18 50mm 3 (mm)
IC 410-285701/4		08/13/2022 23:00	1	22AUG13MFS-04.d	Gemini C18 50mm 3 (mm)
ICISAV 410-285701/5		08/13/2022 23:13	1	22AUG13MFS-05.d	Gemini C18 50mm 3 (mm)
IC 410-285701/6		08/13/2022 23:25	1	22AUG13MFS-06.d	Gemini C18 50mm 3 (mm)
IC 410-285701/7		08/13/2022 23:38	1	22AUG13MFS-07.d	Gemini C18 50mm 3 (mm)
ICB 410-285701/8		08/13/2022 23:50	1	22AUG13MFS-08.d	Gemini C18 50mm 3 (mm)
ICV 410-285701/9		08/14/2022 00:03	1	22AUG13MFS-09.d	Gemini C18 50mm 3 (mm)
CCV 410-285701/10		08/14/2022 00:15	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-91186-1

SDG No.: _____

Instrument ID: 30733 Start Date: 08/14/2022 00:41

Analysis Batch Number: 285703 End Date: 08/14/2022 01:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 410-285703/1		08/14/2022 00:41	1	22AUG13MFS-12.d	Gemini C18 50mm 3 (mm)
MB 410-285099/1-A		08/14/2022 00:53	1	22AUG13MFS-13.d	Gemini C18 50mm 3 (mm)
LCS 410-285099/2-A		08/14/2022 01:06	1	22AUG13MFS-14.d	Gemini C18 50mm 3 (mm)
LCSD 410-285099/3-A		08/14/2022 01:18	1	22AUG13MFS-15.d	Gemini C18 50mm 3 (mm)
410-91186-5 RE	EB_071322 RE	08/14/2022 01:31	1	22AUG13MFS-16.d	Gemini C18 50mm 3 (mm)
CCV 410-285703/7		08/14/2022 01:56	1	22AUG13MFS-18.d	Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 279532 Batch Start Date: 07/26/22 09:35 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00012
MB 410-279532/1		3535, MFS		300 g	50 g	250 mL	1 mL		0.1 mL
LCS 410-279532/2		3535, MFS		300 g	50 g	250 mL	1 mL	0.1 mL	0.1 mL
410-91186-A-1	EB_071222	3535, MFS	T	304.23 g	28.24 g	276 mL	1 mL		0.1 mL
410-91186-A-2	MW-39D	3535, MFS	T	326.36 g	27.46 g	298.9 mL	1 mL		0.1 mL
410-91186-A-3	MW-39S	3535, MFS	T	322.54 g	27.73 g	294.8 mL	1 mL		0.1 mL
410-91186-A-4	MW-39I	3535, MFS	T	317.44 g	27.73 g	289.7 mL	1 mL		0.1 mL
410-91186-A-5	EB_071322	3535, MFS	T	312.43 g	27.34 g	285.1 mL	1 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_SS 00013	AnalysisComment				
MB 410-279532/1		3535, MFS							
LCS 410-279532/2		3535, MFS							
410-91186-A-1	EB_071222	3535, MFS	T						
410-91186-A-2	MW-39D	3535, MFS	T						
410-91186-A-3	MW-39S	3535, MFS	T		Discolored, Particulate				
410-91186-A-4	MW-39I	3535, MFS	T		Discolored, Particulate				
410-91186-A-5	EB_071322	3535, MFS	T	0.1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 279532 Batch Start Date: 07/26/22 09:35 Batch Analyst: Barnhart, Toby B

Batch Method: 3535 Batch End Date: _____

Batch Notes	
SPE Cartridge Lot ID	6679410-02
Balance ID	C125996498
Manifold ID	11, 2
Pipette/Syringe/Dispenser ID	P10-9, PFAS 8
Solvent Name	0.3NH ₄ OH:MeOH
Solvent Lot #	4547707262233A
Analyst ID - Spike Analyst	TB 30906
Analyst ID - Spike Witness Analyst	EBG 20094
Methanol ID	220066
Milli-Q Reagent Water ID	House A372
QC Bottle Lot ID	0222101G
Centrifuge Tube ID	20210406-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 283151 Batch Start Date: 08/05/22 08:53 Batch Analyst: Swan, Chris

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00010	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_MFS1 00009	PFC_STD_MFS2 00010	PFC_STD_MFS3 00008
IC 410-283151/1		MFS					200 uL		
IC 410-283151/2		MFS						200 uL	
IC 410-283151/3		MFS							200 uL
IC 410-283151/4		MFS							
ICISAV 410-283151/5		MFS							
IC 410-283151/6		MFS							
IC 410-283151/7		MFS							
ICB 410-283151/8		MFS			10 uL	50 uL			
ICV 410-283151/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00010	PFC_STD_MFS5 00008	PFC_STD_MFS6 00008	PFC_STD_MFS7 00008		
IC 410-283151/1		MFS							
IC 410-283151/2		MFS							
IC 410-283151/3		MFS							
IC 410-283151/4		MFS		200 uL					
ICISAV 410-283151/5		MFS			200 uL				
IC 410-283151/6		MFS				200 uL			
IC 410-283151/7		MFS					200 uL		
ICB 410-283151/8		MFS							
ICV 410-283151/9		MFS							

Batch Notes	
Mobil Phase ID	2886208022233B; 2996208022233D

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 285099 Batch Start Date: 08/11/22 11:17 Batch Analyst: Hammen, Sarah

Batch Method: 3535 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_IN 00718	PFC_SS 00014
MB 410-285099/1		3535, MFS		300 g	50 g	250 mL	1 mL		100 uL
LCS 410-285099/2		3535, MFS		300 g	50 g	250 mL	1 mL	100 uL	100 uL
LCSD 410-285099/3		3535, MFS		300 g	50 g	250 mL	1 mL	100 uL	100 uL
410-91186-D-5	EB_071322	3535, MFS	T	315.73 g	27.28 g	288.5 mL	1 mL		100 uL

Batch Notes	
SPE Cartridge Lot ID	6679410-01
Balance ID	B629764122
Manifold ID	8
Pipette/Syringe/Dispenser ID	P10-4/PFAS 8, 9
Solvent Name	.3% NH4OH in MeOH
Solvent Lot #	4422108112233A
Analyst ID - Spike Analyst	SH19843
Analyst ID - Spike Witness Analyst	DC20115
Methanol ID	220054
Milli-Q Reagent Water ID	HOUSE A-372
QC Bottle Lot ID	0304101H
Centrifuge Tube ID	20211026-058

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-91186-1

SDG No.: _____

Batch Number: 285701 Batch Start Date: 08/13/22 22:21 Batch Analyst: Kruelle, Hannah K

Batch Method: MFS Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_MFS 00010	PFC_INT_ 00012	PFC_IS_MOD 00364	PFC_STD_MFS1 00009	PFC_STD_MFS2 00010	PFC_STD_MFS3 00008
IC 410-285701/1		MFS					200 uL		
IC 410-285701/2		MFS						200 uL	
IC 410-285701/3		MFS							200 uL
IC 410-285701/4		MFS							
ICISAV 410-285701/5		MFS							
IC 410-285701/6		MFS							
IC 410-285701/7		MFS							
ICB 410-285701/8		MFS			10 uL	50 uL			
ICV 410-285701/9		MFS		200 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD_MFS4 00010	PFC_STD_MFS5 00008	PFC_STD_MFS6 00008	PFC_STD_MFS7 00008		
IC 410-285701/1		MFS							
IC 410-285701/2		MFS							
IC 410-285701/3		MFS							
IC 410-285701/4		MFS		200 uL					
ICISAV 410-285701/5		MFS			200 uL				
IC 410-285701/6		MFS				200 uL			
IC 410-285701/7		MFS					200 uL		
ICB 410-285701/8		MFS							
ICV 410-285701/9		MFS							

Batch Notes	
Mobil Phase ID	3311008082022B, 3311008082233C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins Lancaster Laboratories Environme

2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record



410-91186 Chain of Custody

eurofins
Environment Testing
America

Client Information			Sampler <i>MS/KO</i>		Lab PM Zanar, Elizabeth M		IC No 0-60385-13447.1																																																														
Client Contact: Mr Glenn Esler			Phone		E-Mail Elizabeth.Zanar@et.eurofinsus.com		Page Page 1 of 1																																																														
Company Integral Consulting Inc			PWSID		Analysis Requested			Job #																																																													
Address: 319 SW Washington Ave Suite 1150			Due Date Requested:					Preservation Codes:																																																													
City Portland			TAT Requested (days): <i>10-Day Standard</i>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>A - HCL</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2O4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2O3</td></tr> <tr><td>G - Amchlor</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - DI Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDTA</td><td>Y - Trizma</td></tr> <tr><td>Z - other (specify)</td><td></td></tr> </table>		A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO2	D - Nitric Acid	P - Na2O4S	E - NaHSO4	Q - Na2SO3	F - MeOH	R - Na2S2O3	G - Amchlor	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecahydrate	I - Ice	U - Acetone	J - DI Water	V - MCAA	K - EDTA	W - pH 4-5	L - EDTA	Y - Trizma	Z - other (specify)		Other:																																				
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State, Zip OR, 97204			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Number of Containers		Special Instructions/Note:																																																														
Phone: 503-943-3617(Tel)			PO # CF 11E5 <i>2501.02A/3202</i>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, B=solid, O=water/oil, BT=Tissue, A=Air)</th> <th colspan="4">BFS_IDA, MFS_IDA</th> </tr> </thead> <tbody> <tr> <td><i>EB_071222</i></td> <td><i>7-12-22</i></td> <td><i>1600</i></td> <td><i>G</i></td> <td><i>Water</i></td> <td><i>X</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>MW-39D</i></td> <td><i>7-13-22</i></td> <td><i>0925</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>MW-39S</i></td> <td><i>↓</i></td> <td><i>0930</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>MW-39I</i></td> <td><i>↓</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>EB-071322</i></td> <td><i>↓</i></td> <td><i>1015</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, B=solid, O=water/oil, BT=Tissue, A=Air)	BFS_IDA, MFS_IDA				<i>EB_071222</i>	<i>7-12-22</i>	<i>1600</i>	<i>G</i>	<i>Water</i>	<i>X</i>					<i>MW-39D</i>	<i>7-13-22</i>	<i>0925</i>								<i>MW-39S</i>	<i>↓</i>	<i>0930</i>								<i>MW-39I</i>	<i>↓</i>									<i>EB-071322</i>	<i>↓</i>	<i>1015</i>								Project Name MFS/BFS		Project # 41008576	
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Email: gesler@integral-corp.com			WO #		SSOW#		Site: <i>West Deptford, NJ</i>																																																														
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Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV / Other (Specify) <i>USDFP Full</i>				Special Instructions/QC Requirements:				

Empty Kit Relinquished by		Date:	Time:	Method of Shipment:		
Relinquished by: <i>McGinnis, Tony</i>		Date/Time: <i>7-14-22 / 1400</i>	Company: <i>Integral</i>	Received by: <i>ESL</i>	Date/Time: <i>7/14/22 1400</i>	Company: <i>Eurofins</i>
Relinquished by: <i>B... L...</i>		Date/Time: <i>7/14/22 1740</i>	Company:	Received by:	Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time: <i>7/14/22 1903</i>	Company: <i>Eurofins</i>
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.: <i>not present</i>		Cooler Temperature(s) °C and Other Remarks: <i>2.2°C</i>		

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 410-91186-1

Login Number: 91186

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Renner, Melissa

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	



Data Validation Report
Solvay Specialty Polymers – GW Monitoring

Prepared for:

Integral Consulting, Inc.
319 SW Washington Street, Suite 1150
Portland, Oregon 97204

Prepared by:

EcoChem, Inc.
500 Union Street, Suite 1010
Seattle, Washington 98101

EcoChem Project: C22143-1

September 9, 2022

Approved for Release:

A handwritten signature in black ink, appearing to read "Christine Ransom". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Christine Ransom
Senior Project Chemist
EcoChem, Inc.

PROJECT NARRATIVE

Basis for Data Validation

This report summarizes the results of summary validation (Stage 2B) performed on groundwater sample data collected for the Solvay Specialty Polymers Groundwater Monitoring project. A complete list of samples is provided in the **Sample Index**.

Samples were analyzed by Eurofins, Lancaster, Pennsylvania. The analytical methods and EcoChem project chemists are listed below.

ANALYSIS	METHOD	PRIMARY REVIEW	SECONDARY REVIEW
Bi-functional Surfactants	LC/MS/MS	A. Bodkin	C. Ransom
Mono-functional Surfactants	LC/MS/MS		

The data were reviewed using guidance and quality control criteria documented in the analytical methods; *Quality Assurance Project Plan – Solvay Specialty Polymers USA, LLC* (Integral, May 2021); and *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2017).

EcoChem’s goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **APPENDIX A**. A Qualified Data Summary Table is included in **APPENDIX B**. Data Validation Worksheets and project associated communications will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) is also submitted with this report.

Sample Index
Solvay Specialty Polymers - GW Monitoring

SDG	SAMPLE ID	LAB ID	BFS	MFS
J90323	MW-112S	410-90323-1	✓	✓
J90323	MW-112D	410-90323-2	✓	✓
J90323	MW-103S	410-90323-3	✓	✓
J90323	FB_070622	410-90323-4	✓	✓
J90323	EB_070622	410-90323-5	✓	✓
J90323	DUP1_070622	410-90323-6	✓	✓
J90323	MW-106D	410-90323-7	✓	✓
J90323	MW-106S	410-90323-8	✓	✓
J90323	MW-103D	410-90323-9	✓	✓
J90323	MW-113D	410-90323-10	✓	✓
J90323	MW-113S	410-90323-11	✓	✓
J90323	DUP1_070722	410-90323-12	✓	✓
J90323	EB_070722	410-90323-13	✓	✓
J90323	DUP2_070722	410-90323-14	✓	✓
J90323	MW-102S	410-90323-15	✓	✓
J90529	MW-102D	410-90529-1	✓	✓
J90529	MW-118S	410-90529-2	✓	✓
J90529	MW-118D	410-90529-3	✓	✓
J90529	MW-101S	410-90529-4	✓	✓
J90529	MW-101D	410-90529-5	✓	✓
J90529	MW-107S	410-90529-6	✓	✓
J90529	MW-107D	410-90529-7	✓	✓
J90529	MW-109S	410-90529-8	✓	✓
J90529	MW-109D	410-90529-9	✓	✓
J90529	EB_070822	410-90529-10	✓	✓

Sample Index
Solvay Specialty Polymers - GW Monitoring

SDG	SAMPLE ID	LAB ID	BFS	MFS
J90799	MW-124S	410-90799-1	✓	✓
J90799	MW-124D	410-90799-2	✓	✓
J90799	MW-111S	410-90799-3	✓	✓
J90799	MW-111D	410-90799-4	✓	✓
J90799	MW-110S	410-90799-5	✓	✓
J90799	MW-110D	410-90799-6	✓	✓
J90799	MW-36D	410-90799-7	✓	✓
J90799	MW-42D	410-90799-8	✓	✓
J90799	EB_071122	410-90799-9	✓	✓
J90799	MW-43I	410-90799-10	✓	✓
J90799	MW-43D	410-90799-11	✓	✓
J90799	MW-19D	410-90799-12	✓	✓
J90799	MW-19I	410-90799-13	✓	✓
J90799	MW-19S	410-90799-14	✓	✓
J90799	MW-38D	410-90799-15	✓	✓
J90799	MW-33S	410-90799-16	✓	✓
J90799	MW-41D	410-90799-17	✓	✓
J91186	EB_071222	410-91186-1	✓	✓
J91186	MW-39D	410-91186-2	✓	✓
J91186	MW-39S	410-91186-3	✓	✓
J91186	MW-39I	410-91186-4	✓	✓
J91186	EB_071322	410-91186-5	✓	✓

DATA VALIDATION REPORT
Solvay Specialty Polymers – GW Monitoring
Bifunctional Surfactants
by LC-MS/MS with Isotope Dilution

This report documents the review of analytical data from the analysis of groundwater samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Eurofins, Lancaster, Pennsylvania. Refer to the **Sample Index** for a complete list of samples.

SDG	NUMBER OF SAMPLES AND MATRIX	VALIDATION LEVEL
J90323-1	12 Groundwater & 3 Field Blank	Stage 2B
J90529-1	9 Groundwater & 1 Field Blank	Stage 2B
J90799-1	16 Groundwater & 1 Field Blank	Stage 2B
J91186-1	3 Groundwater & 2 Field Blank	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

All sample IDs and results reported in the electronic data deliverable (EDD) were verified (10% verification) by comparing the EDD to the hardcopy laboratory data package. Laboratory QC results were not included in the EDD.

TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

2	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	✓	Internal Standards
1	Continuing Calibration Verification	1	Field Duplicates
2	Instrument Blanks	✓	Target Analyte List
✓	Laboratory Blanks	✓	Reporting Limits
1	Field Blanks	1	Reported Results
2	Labeled Compounds	✓	Compound Identification
2	Laboratory Control Samples (LCS/LCSD)		

✓ Method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control results are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

SDG J91186-1: The following samples were re-extracted due to very low surrogate recoveries in the initial extraction. The re-extraction was performed one day past the 28-day holding time. Results from the re-extraction were reported and estimated (J/UJ-1).

MW-39D	MW-39S
EB_071322	MW-39I

Continuing Calibration (CCAL)

SDG J90529-1: The percent difference (%D) values for BFS_A3B2 and BFS_B4 were outside the control limits for one or more CCALs associated with the 10x analysis of Sample MW-109S. These analytes were reported from the 1x analysis. No qualifiers were required.

SDG J90799-1: The %D value for BFS_A2B3 was outside the control limits for CCAL 410-283897/41 associated with Samples MW-43D, MW-38D, and MW-33S and was indicative of a potential high bias. This analyte was not detected in these samples. No qualifiers were required.

SDG J91186-1: The %D value for BFS_A2B3 was outside the control limits for CCAL 410-283897/41 associated with equipment blank EB_071222. The %D value indicated an increase in instrument response. This analyte was not detected in the equipment blank. No qualifier was necessary based on the potential high bias.

Instrument Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level was established at five times (5x) the concentration reported in the blank. If a contaminant was reported in an associated field sample and the concentration was less than the action level, the result was qualified as not detected (U-7). No action was taken if the sample result was greater than the action level, or for non-detected results.

SDG J90323-1: One instrument blank, ICB 410-279955/11, was analyzed. There was a positive result for BFS_AB3 in the instrument blank. The BFS_AB3 result in Sample MW-103S was less than the action level and was qualified as not detected (U-7).

Field Blanks

SDG J90323-1: One field blank, FB070622, and two equipment blanks, EB_070622 and EB_070722, were submitted. No target analytes were detected.

SDG J90529-1: One equipment blank, EB_070822, was submitted. No target analytes were detected.

SDG J90799-1: One equipment blank, EB_071122, was submitted. No target analytes were detected.

SDG J91186-1: Two equipment blanks, EB_071222 and EB_071322, were submitted. No target analytes were detected.

Labeled Compounds

The labeled compound 13C3-HFPO-DA was added to all field and laboratory QC samples. When the percent recovery (%R) values were less the lower control limits, associated results were estimated (J/UJ-13L). When the %R values were greater than the upper control limit, only the positive results were estimated (J-13H). With the exceptions noted below, the surrogate spike recoveries were within the laboratory control limits.

SDG J90799-1: For Sample MW-38D, the %R value for 13C3-HFPO-DA was greater than the upper control limit. Positive results in this sample were estimated (J-13H).

SDG J91186-1: The following samples were re-extracted due to very low surrogate recoveries in the initial extraction. Results from the re-extraction had acceptable surrogate recoveries.

MW-39D	MW-39S
EB_071322	MW-39I

Laboratory Control Samples

Laboratory control samples (LCS) samples or LCS/LCSD samples were with each batch of 20 or fewer samples. When the LCS or LCS/LCSD %R values indicated a potential low bias, associated results were estimated (J/UJ-10L). Only the associated positive results were estimated (J-10H) if the %R values indicated a potential high bias. Associated positive results were estimated (J-9) if the relative percent difference (RPD) values indicated uncertainty.

SDG J90799-1: For Batch 279976, the LCS/LCSD %R values for BFS_AB2 were greater than the upper control limit, indicating a potential high bias. Positive results for this compound in the associated samples were estimated (J-10H).

MW-43I	MW-19I	MW-33S
MW-43D	MW-19S	MW-41D
MW-19D	MW-38D	

SDG J91186-1: For Batch 279976, the LCS/LCSD %R values for BFS_AB2 were greater than the upper control limit, indicating a potential high bias. No target analytes were detected in the associated sample. No qualifiers were required.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed at the appropriate frequency. For MS/MSD %R values outside of the control limits of 70%-130%, no action was taken unless both recoveries did not meet acceptance criteria. When the MS/MSD %R values indicated a potential low bias, associated results were estimated (J/UJ-8L). Only the associated positive results were estimated (J-8H) if the %R values indicated a potential high bias. Associated positive results were estimated (J-9) if the RPD values indicated uncertainty. Qualifiers were only issued to the parent sample.

All MS/MSD outliers were greater than the upper control limit, often greater than 200%. This is an ongoing trend for the project. Results associated with outliers are qualified accordingly.

SDG J90323-1: For all batches, almost all MS/MSD %R values were greater than the upper control limit. There were no positive results for target analytes in the parent samples; no qualifiers were required. The following samples were used for the MS/MSD analyses:

BATCH	QC SAMPLE
277007	MW-106D
277008	MW-106S
277011	MW-112S
277013	MW-102S
277014	MW-112D

SDG J90529-1: For Batch 279981, Sample MW-102D was used for the MS/MSD analyses. All MS/MSD recoveries were greater than the upper control limit, however only the following outliers resulted in qualification of data:

ANALYTE	MS %R (70 – 130%)	MSD %R (70 – 130%)	RPD (30%)	QUALIFIER
BFS_AB2	305	305	OK	J-8H
BFS_AB3	223	214	OK	J-8H
BFS_B3	264	253	OK	J-8H

SDG J90799-1: No MS/MSD samples were analyzed using samples in this SDG. Laboratory precision and accuracy were evaluated using the LCS/LCSD results.

SDG J91186-1: No MS/MSD samples were analyzed for this SDG. Laboratory precision and accuracy were evaluated using the LCS/LCSD results.

Field Duplicates

The relative percent difference (RPD) control limit is 30% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the difference between the sample and duplicate must be less than the RL.

SDG J90323-1: Three sets of field duplicates were submitted. No target analytes were detected in any of these samples; field precision was acceptable.

MW-112S and DUP1_070622
MW-106D and DUP1_070722
MW-102S and DUP2_070722

Reported Results

SDG J90799-1: The following samples were re-extracted due to laboratory control sample and surrogate outliers in the original analysis. The re-extraction was performed 3 days past the 28-day holding time. The results from the initial extraction were reported.

MW-43I	MW-19I	MW-33S
MW-43D	MW-19S	MW-41D
MW-19D	MW-38D	

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory performed the specified analytical methods. With the exceptions noted above, accuracy was acceptable as demonstrated by the labeled compound, LCS/LCSD, and MS/MSD recoveries and precision was acceptable as indicated by the MS/MSD and field duplicate RPD values.

One detection limit was elevated based on instrument blank contamination. Data were estimated based on holding time outliers, surrogate recovery outliers, and MS/MSD recovery outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
Solvay Specialty Polymers – GW Monitoring
Monofunctional Surfactants
by LC-MS/MS with Isotope Dilution

This report documents the review of analytical data from the analysis of groundwater samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Eurofins, Lancaster, Pennsylvania. Refer to the **Sample Index** for a complete list of samples.

SDG	NUMBER OF SAMPLES AND MATRIX	VALIDATION LEVEL
J90323-1	12 Groundwater & 3 Field Blank	Stage 2B
J90529-1	9 Groundwater & 1 Field Blank	Stage 2B
J90799-1	16 Groundwater & 1 Field Blank	Stage 2B
J91186-1	3 Groundwater & 2 Field Blank	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

All sample IDs and results reported in the electronic data deliverable (EDD) were verified (10% verification) by comparing the EDD to the hardcopy laboratory data package. Laboratory QC results were not included in the EDD.

SDGs J90323-1, J90529-1: Several compounds in the matrix spike/matrix spike duplicate (MS/MSD) analyses were erroneously flagged as being outside of the control limits. The lab was contacted and submitted revised lab reports and EDDs.

TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

✓	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	2	Internal Standards
✓	Continuing Calibration Verification	1	Field Duplicates
✓	Instrument Blanks	✓	Target Analyte List
✓	Laboratory Blanks	1	Reporting Limits
1	Field Blanks	✓	Reported Results
2	Labeled Compounds	✓	Compound Identification
✓	Laboratory Control Samples (LCS/LCSD)		

✓ Method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control results are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Field Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-6). No action is taken if the sample result is greater than the action level, or for non-detected results.

SDG J90323-1: One field blank, FB070622, and two equipment blanks, EB_070622 and EB_070722, were submitted. No target analytes were detected.

SDG J90529-1: One equipment blank, EB_070822, was submitted. No target analytes were detected.

SDG J90799-1: One equipment blank, EB_071122, was submitted. No target analytes were detected.

SDG J91186-1: Two equipment blanks, EB_071222 and EB_071322, were submitted. There was a positive result for MFS_N2 in equipment blank EB_071322. Positive results in associated samples were greater than the action level; no qualifiers were required. No target analytes were detected in equipment blank EB_071222.

Labeled Compounds

The labeled compound 13C3-HFPO-DA was added to all field and laboratory QC samples. When the percent recovery (%R) values were less the lower control limits, associated results were estimated (J/UJ-13L). When the %R values were greater than the upper control limit, only the positive results were estimated (J-13H). With the exceptions noted below, the surrogate spike recoveries were within the laboratory control limits.

SDG J90799-1: Sample MW-19I was analyzed at a 1x and 100x dilution due to the high concentration of target analytes. For the 1x analysis, the %R value for 13C3-HFPO-DA was greater than the upper control limit. Positive results in the 1x analysis were estimated (J-13H). The %R value for the 100x analysis was within control limits.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed at the appropriate frequency. For MS/MSD %R values outside of the control limits of 70%-130%, no action was taken unless both recoveries did not meet acceptance criteria. When the MS/MSD %R values indicated a potential low bias, associated results were estimated (J/UJ-8L). Only the associated positive results were estimated (J-8H) if the %R values indicated a potential high bias. Associated positive results were estimated (J-9) if the RPD values indicated uncertainty. Qualifiers were only issued to the parent sample.

SDG J90323-1: For Batch 278614, Sample MW-112D was used for the MS/MSD analyses. The following outliers resulted in qualification of data:

ANALYTE	MS %R (70 – 130%)	MSD %R (70 – 130%)	RPD (30%)	QUALIFIER
MFS_N5	54	20	94	UJ-8L

SDG J90529-1: For Batch 279534: Sample MW-102D was used for the MS/MSD analyses. The following outliers resulted in qualification of data:

ANALYTE	MS %R (70 – 130%)	MSD %R (70 – 130%)	RPD (30%)	QUALIFIER
MFS_M3	154	134	OK	J-8H
MFS_N3	169	147	OK	J-8H

SDG J90799-1: No MS/MSD samples were analyzed using samples in this SDG. Laboratory precision and accuracy were evaluated using the LCS/LCSD results.

SDG J91186-1: No MS/MSD samples were analyzed using samples in this SDG. Laboratory precision and accuracy were evaluated using the LCS/LCSD results.

Internal Standards

Internal standard 13C2-PFOA was added to each sample and QC sample prior to analysis. If the internal standard area of a sample was less than 50% of the associated continuing calibration internal standard, all results were estimated (J/UJ-19). If the internal standard area of a sample was greater than 200% of the associated continuing calibration internal standard, only positive results were estimated (J-19).

SDG J90799-1: For the 1x analysis of Sample MW-19I, the internal standard area was less than the lower control limit. The sample was reanalyzed, confirming a matrix interference. Results reported from the 1x analysis were estimated (J/UJ-19).

Field Duplicates

The relative percent difference (RPD) control limit is 30% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the difference between the sample and duplicate must be less than the RL.

SDG J90323-1: Three sets of field duplicates were submitted. Field precision was acceptable.

MW-112S and DUP1_070622
MW-106D and DUP1_070722
MW102S and DUP2_070722

Reporting Limits

The method reporting limits (MRL) and method detection limits (MDL) for MFS_N4 and MFS_N5 were greater than the QAPP-specified limits.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory performed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the labeled compound, laboratory control sample, and MS/MSD recoveries and precision was acceptable as indicated by the MS/MSD and field duplicate RPD values.

Data were estimated based on labeled compound, internal standard, and MS/MSD recovery outliers.

All data, as qualified, are acceptable for use.



APPENDIX A

DATA QUALIFIER DEFINITIONS REASON CODES AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES **Based on National Functional Guidelines**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
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DATA QUALIFIER REASON CODES

Group	Code	Reason for Qualification
Sample Handling	1	Improper Sample Handling or Sample Preservation (i.e., headspace, cooler temperature, pH, summa canister pressure); Exceeded Holding Times
Instrument Performance	24	Instrument Performance (i.e., tune, resolution, retention time window, endrin breakdown, lock-mass)
	5A	Initial Calibration (RF, %RSD, r^2)
	5B	Calibration Verification (CCV, CCAL; RF, %D, %R) Use bias flags (H,L) ¹ where appropriate
	5C	Initial Calibration Verification (ICV %D, %R) Use bias flags (H,L) ¹ where appropriate
Blank Contamination	6	Field Blank Contamination (Equipment Rinsate, Trip Blank, etc.)
	7	Lab Blank Contamination (i.e., method blank, instrument blank, etc.) Use low bias flag (L) ¹ for negative instrument blanks
Precision and Accuracy	8	Matrix Spike (MS and/or MSD) Recoveries Use bias flags (H,L) ¹ where appropriate
	9	Precision (all replicates: LCS/LCSD, MS/MSD, Lab Replicate, Field Replicate)
	10	Laboratory Control Sample Recoveries (a.k.a. Blank Spikes) Use bias flags (H,L) ¹ where appropriate
	12	Reference Material Use bias flags (H,L) ¹ where appropriate
	13	Surrogate Spike Recoveries (a.k.a. labeled compounds, recovery standards) Use bias flags (H,L) ¹ where appropriate
Interferences	16	ICP/ICP-MS Serial Dilution Percent Difference
	17	ICP/ICP-MS Interference Check Standard Recovery Use bias flags (H,L) ¹ where appropriate
	19	Internal Standard Performance (i.e., area, retention time, recovery)
	22	Elevated Detection Limit due to Interference (i.e., chemical and/or matrix)
	23	Bias from Matrix Interference (i.e. diphenyl ether, PCB/pesticides)
Identification and Quantitation	2	Chromatographic pattern in sample does not match pattern of calibration standard
	3	2 nd column confirmation (RPD or %D)
	4	Tentatively Identified Compound (TIC) (associated with NJ only)
	20	Calibration Range or Linear Range Exceeded
	25	Compound Identification (i.e., ion ratio, retention time, relative abundance, etc.)
Miscellaneous	11	A more appropriate result is reported (multiple reported analyses i.e., dilutions, re-extractions, etc. Associated with "R" and "DNR" only)
	14	Other (See DV report for details)
	26	Method QC information not provided

¹H = high bias indicated

L = low bias indicated

DATA VALIDATION CRITERIA

Table: PFC-HPLC/MS/MS
 Revision No.: 0
 Last Rev. Date: 08/08/16
 Page: 1 of 2

**Perfluorinated Compounds by High Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS)
 (Based on EPA Method 537 rev 1.1)**

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	PTFE free containers store at < 0-6°C , not frozen	Method ⁽¹⁾	If required by project: J (pos)/UJ (ND) if greater than 10° C	1	Use PJ for temp outliers; see TM20
Holding Time	Extraction: 14 days from collection (waters) Analysis: 28 days from extraction No extraction HT specified for soils in method extracts should be stored in dark in amber vials < 4 +/-2°C	Method ⁽¹⁾	J (pos)/UJ (ND) if HT exceeded J (pos)/R (ND) if gross exceedance (> 2x HT)	1	
Instrument Performance					
Initial Calibration	%RSD of RRF< 20.0% or linear regression $r^2>0.990$ std within 70%-130% of true value lowest std within 50%-150% of true value	Method ⁽¹⁾	J (pos) if %RSD > 20%	5A	
Continuing Calibration Verification (CCV)	mid-level std - start of sequence and every 12 hours %R 70-130%	Method ⁽¹⁾	J (pos) if %R >130% (high bias) J (pos)/UJ (ND) if %R ≤ 70% (low bias)	5B (H,L) ³	
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch of (of ≤ 20 samples) No detected compounds > MDL (lab requiremnet no (pos) > RL)	Method (1) EcoChem standard policy	U(pos) if sample result is < 5X blank concentration	7	Hierarchy of blank review: #1 - Review MB, qualify as needed #2 - Review FB , qualify as needed
Field Blank (FB)	No detected compounds > MDL	EcoChem standard policy	U(pos) if sample result is < 5X blank concentration	6	
Precision and Accuracy					
Laboratory Control Sample (LCS)	One per lab batch (of ≤ 20 samples) Medium & High Level: 70%-130% Low Level: 50%-150%	Method ⁽¹⁾	Qualify all associated samples J(pos) if %R > UCL J(pos)/UJ(ND) if %R < LCL J(pos)/R(ND) if %R < 10% - very low bias	10 (H,L) ³	PJ - No action if LCSD analyzed and only one spike %R is outside criteria Qualify all associated samples
LCS/LCSD (RPD)	If LCSD analyzed RPD < lab limits	EcoChem standard policy	J (pos) if RPD > control limit	9	Qualify all associated samples

DATA VALIDATION CRITERIA

Perfluorinated Compounds by High Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS)
 (Based on EPA Method 537 rev 1.1)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Matrix Spike or MS/MSD (recovery)	One per lab batch (of ≤ 20 samples) Medium & High Level: 70%-130% Low Level: 50%-150%	Method ⁽¹⁾	Qualify parent only unless other QC indicates systematic problems: J(pos) if both %R > UCL J(pos)/UJ(ND) if both %R < LCL J(pos)/R(ND) if both %R < 10% J(pos)/UJ(ND) if one > UCL & one < LCL, with no bias	8 (H,L) ³	No action if only one spike %R is outside criteria. No action if parent concentration is >4x the amount spiked. These are default limits from SOP; lab may provide statistically derived limits Qualify parent sample only
MS/MSD (RPD)	If MSD analyzed RPD ≤ 30% (Aqueous)	Method ⁽¹⁾	J(pos) in parent sample if RPD > CL	9	Qualify parent sample only
Internal Standard	50%-150% of average areas of ICAL RT within 60 seconds of most recent CCV	Method ⁽¹⁾	J (pos) if > 200% J (pos)/UJ (ND) if < 50% J (pos)/R (ND) if < 25% if RT >30 seconds use PJ	19	
Surrogates	%R: 70%-130%	Method ⁽¹⁾	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	13 (H,L) ³	Qualify all associated compounds. These are default limits from SOP; lab may provide statistically derived limits
Field Duplicates	Aqueous: RPD ≤ 30% OR ≤ 50% RPD (for results < 2X RL)	Method ⁽¹⁾	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	Use project limits where specified in QAPP
Compound Identification and Quantitation and Calculation					
Retention times	Analytes with retention time window	Method ⁽¹⁾	U (pos) if identification criteria not met	25	
Calibration Range	Results less than highest calibration standard	EcoChem standard policy	J results > high standard	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	TM-04 EcoChem Policy for Rejection/Selection Process for Multiple Results

¹ Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), EPA Method 537 rev 1.1, September 2009

² EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.

(pos): Positive Result

(ND): Non-detects



ECO-CHEM
Data Quality

APPENDIX B

QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
Solvay Specialty Polymers - GW Monitoring

SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	Reason Code
410-90323-1	MW-103S	410-90323-3	BFS_IDA_3535	bifunctional surfactant AB3	0.35	ng/L	J ^2	U	7
410-90323-1	MW-112D	410-90323-2	MFS_IDA_3535	monofunctional surfactant N5	2.5	ng/L	U F1 F2	UJ	8L
410-90529-1	MW-102D	410-90529-1	BFS_IDA_3535	bifunctional surfactant AB2	0.34	ng/L	J F1	J	8H
410-90529-1	MW-102D	410-90529-1	BFS_IDA_3535	bifunctional surfactant AB3	0.42	ng/L	J F1	J	8H
410-90529-1	MW-102D	410-90529-1	BFS_IDA_3535	bifunctional surfactant B3	0.4	ng/L	J F1	J	8H
410-90529-1	MW-102D	410-90529-1	MFS_IDA_3535	monofunctional surfactant M3	8.2	ng/L	F1	J	8H
410-90529-1	MW-102D	410-90529-1	MFS_IDA_3535	monofunctional surfactant N3	8.9	ng/L	F1	J	8H
410-90799-1	MW-19D	410-90799-12	BFS_IDA_3535	bifunctional surfactant AB2	640	ng/L	*+ cn	J	10H
410-90799-1	MW-19I	410-90799-13	BFS_IDA_3535	bifunctional surfactant AB2	340	ng/L	*+ cn	J	10H
410-90799-1	MW-19I	410-90799-13	MFS_IDA_3535	monofunctional surfactant M3	1.9	ng/L		J	13H,19
410-90799-1	MW-19I	410-90799-13	MFS_IDA_3535	monofunctional surfactant M4	0.93	ng/L	U	UJ	19
410-90799-1	MW-19I	410-90799-13	MFS_IDA_3535	monofunctional surfactant N3	1.2	ng/L		J	13H,19
410-90799-1	MW-19I	410-90799-13	MFS_IDA_3535	monofunctional surfactant N4	1.9	ng/L	U	UJ	19
410-90799-1	MW-19I	410-90799-13	MFS_IDA_3535	monofunctional surfactant N5	2.8	ng/L	U	UJ	19
410-90799-1	MW-19S	410-90799-14	BFS_IDA_3535	bifunctional surfactant AB2	6.2	ng/L	*+	J	10H
410-90799-1	MW-33S	410-90799-16	BFS_IDA_3535	bifunctional surfactant AB2	1.2	ng/L	*+ cn	J	10H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant A2B2	10	ng/L		J	13H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant A3B	0.72	ng/L		J	13H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant A3B2	0.41	ng/L	J	J	13H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant A4B	0.47	ng/L		J	13H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant AB2	2.6	ng/L	*+ cn	J	10H,13H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant AB3	11	ng/L		J	13H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant B3	6.9	ng/L		J	13H
410-90799-1	MW-38D	410-90799-15	BFS_IDA_3535	bifunctional surfactant B4	0.5	ng/L	J	J	13H
410-90799-1	MW-41D	410-90799-17	BFS_IDA_3535	bifunctional surfactant AB2	0.72	ng/L	*+ cn	J	10H
410-90799-1	MW-43D	410-90799-11	BFS_IDA_3535	bifunctional surfactant AB2	1.3	ng/L	*+ cn	J	10H
410-90799-1	MW-43I	410-90799-10	BFS_IDA_3535	bifunctional surfactant AB2	15	ng/L	*+ cn	J	10H
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant A2B2	1.3	ng/L	U H	UJ	1
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant A2B3	0.99	ng/L	U H	UJ	1

Qualified Data Summary Table
Solvay Specialty Polymers - GW Monitoring

SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	Reason Code
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant A3B	0.54	ng/L	U H	UJ	1
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant A3B2	0.72	ng/L	U H	UJ	1
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant A4B	0.36	ng/L	U H	UJ	1
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant AB2	0.54	ng/L	U H	UJ	1
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant AB3	1.4	ng/L	U H	UJ	1
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant B3	0.63	ng/L	U H	UJ	1
410-91186-1	EB_071322	410-91186-5	BFS_IDA_3535	bifunctional surfactant B4	0.99	ng/L	U H	UJ	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant A2B2	0.53	ng/L	J H	J	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant A2B3	0.94	ng/L	U H	UJ	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant A3B	0.51	ng/L	U H	UJ	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant A3B2	0.68	ng/L	U H	UJ	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant A4B	0.34	ng/L	U H	UJ	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant AB2	0.51	ng/L	U H	UJ	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant AB3	0.82	ng/L	J H	J	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant B3	0.6	ng/L	U H	UJ	1
410-91186-1	MW-39D	410-91186-2	BFS_IDA_3535	bifunctional surfactant B4	0.94	ng/L	U H	UJ	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant A2B2	330	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant A2B3	7.7	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant A3B	57	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant A3B2	27	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant A4B	24	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant AB2	67	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant AB3	270	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant B3	200	ng/L	H	J	1
410-91186-1	MW-39I	410-91186-4	BFS_IDA_3535	bifunctional surfactant B4	29	ng/L	H	J	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant A2B2	1.7	ng/L	H	J	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant A2B3	0.95	ng/L	U H	UJ	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant A3B	0.54	ng/L	H	J	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant A3B2	0.69	ng/L	U H	UJ	1

Qualified Data Summary Table
Solvay Specialty Polymers - GW Monitoring

SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	Reason Code
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant A4B	0.35	ng/L	U H	UJ	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant AB2	0.73	ng/L	H	J	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant AB3	0.71	ng/L	J H	J	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant B3	1.2	ng/L	H	J	1
410-91186-1	MW-39S	410-91186-3	BFS_IDA_3535	bifunctional surfactant B4	0.95	ng/L	U H	UJ	1

Attachment D

August 2022 Analytical Data and Validation Report

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-94473-1
Client Project/Site: MFS/BFS

For:

Integral Consulting Inc
923 Haddonfield Road
Suite 300
Cherry Hill, New Jersey 08002

Attn: Erin Palko



Authorized for release by:
9/14/2022 1:17:46 PM

Elizabeth Zanar, Project Manager
(717)556-7290

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Elizabeth Zanar
Project Manager
9/14/2022 1:17:46 PM



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Definitions/Glossary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Job ID: 410-94473-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-94473-1

Receipt

The samples were received on 8/12/2022 6:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Client Sample ID: Influent_081222

Lab Sample ID: 410-94473-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BFS_A2B2	0.45	J	1.3	0.38	ng/L	1		BFS	Total/NA
BFS_AB3	0.39	J ^2	1.4	0.38	ng/L	1		BFS	Total/NA
MFS_N2	5.8		1.0	0.20	ng/L	1		MFS	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Client Sample ID: Influent_081222

Lab Sample ID: 410-94473-1

Date Collected: 08/12/22 13:45

Matrix: Water

Date Received: 08/12/22 18:15

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BFS_A2B2	0.45	J	1.3	0.38	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_A2B3	ND		1.1	0.38	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_A3B	ND	*+	0.57	0.19	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_A3B2	ND		0.77	0.19	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_A4B	ND		0.38	0.19	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_AB2	ND	*+	0.57	0.077	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_AB3	0.39	J ^2	1.4	0.38	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_B3	ND		0.67	0.29	ng/L		09/04/22 13:05	09/08/22 21:27	1
BFS_B4	ND		1.1	0.38	ng/L		09/04/22 13:05	09/08/22 21:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 150				09/04/22 13:05	09/08/22 21:27	1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MFS_N2	5.8		1.0	0.20	ng/L		09/04/22 13:01	09/09/22 02:04	1
MFS_M3	ND		1.0	0.20	ng/L		09/04/22 13:01	09/09/22 02:04	1
MFS_N3	ND		1.0	0.20	ng/L		09/04/22 13:01	09/09/22 02:04	1
MFS_M4	ND		1.0	0.51	ng/L		09/04/22 13:01	09/09/22 02:04	1
MFS_N4	ND		2.0	1.0	ng/L		09/04/22 13:01	09/09/22 02:04	1
MFS_N5	ND		3.0	2.0	ng/L		09/04/22 13:01	09/09/22 02:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	129		50 - 150				09/04/22 13:01	09/09/22 02:04	1

Isotope Dilution Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-94473-1	Influent_081222	104
LCS 410-292700/2-A	Lab Control Sample	88
LCSD 410-292700/3-A	Lab Control Sample Dup	89
MB 410-292700/1-A	Method Blank	94

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-150)
410-94473-1	Influent_081222	129
LCS 410-292696/2-A	Lab Control Sample	93
LCSD 410-292696/3-A	Lab Control Sample Dup	102
MB 410-292696/1-A	Method Blank	87

Surrogate Legend

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Method: BFS - Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-292700/1-A
Matrix: Water
Analysis Batch: 293887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292700

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BFS_A2B2	ND		1.4	0.40	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_A2B3	ND		1.1	0.40	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_A3B	ND		0.60	0.20	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_A3B2	ND		0.80	0.20	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_A4B	ND		0.40	0.20	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_AB2	ND		0.60	0.080	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_AB3	ND		1.5	0.40	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_B3	ND		0.70	0.30	ng/L		09/04/22 13:05	09/08/22 20:49	1
BFS_B4	ND		1.1	0.40	ng/L		09/04/22 13:05	09/08/22 20:49	1
Isotope Dilution	MB MB		Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C3 HFPO-DA	94		50 - 150				09/04/22 13:05	09/08/22 20:49	1

Lab Sample ID: LCS 410-292700/2-A
Matrix: Water
Analysis Batch: 293887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
BFS_A2B2	250	293		ng/L		117		70 - 130
BFS_A2B3	4.72	5.32		ng/L		113		70 - 130
BFS_A3B	35.8	50.7	*+	ng/L		142		70 - 130
BFS_A3B2	47.2	54.0		ng/L		115		70 - 130
BFS_A4B	19.8	25.1		ng/L		127		70 - 130
BFS_AB2	32.1	46.8	*+	ng/L		146		70 - 130
BFS_AB3	268	327		ng/L		122		70 - 130
BFS_B3	114	135		ng/L		118		70 - 130
BFS_B4	62.2	76.1		ng/L		122		70 - 130
Isotope Dilution	LCS LCS		Limits			D	%Rec	Limits
	%Recovery	Qualifier						
13C3 HFPO-DA	88		50 - 150					

Lab Sample ID: LCSD 410-292700/3-A
Matrix: Water
Analysis Batch: 293887

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 292700

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
BFS_A2B2	250	299		ng/L		120		70 - 130	2	30
BFS_A2B3	4.72	5.62		ng/L		119		70 - 130	5	30
BFS_A3B	35.8	49.9	*+	ng/L		139		70 - 130	2	30
BFS_A3B2	47.2	54.6		ng/L		116		70 - 130	1	30
BFS_A4B	19.8	24.5		ng/L		123		70 - 130	3	30
BFS_AB2	32.1	47.3	*+	ng/L		148		70 - 130	1	30
BFS_AB3	268	323		ng/L		121		70 - 130	1	30
BFS_B3	114	136		ng/L		119		70 - 130	1	30
BFS_B4	62.2	76.1		ng/L		122		70 - 130	0	30
Isotope Dilution	LCSD LCSD		Limits			D	%Rec	Limits	RPD	Limit
	%Recovery	Qualifier								
13C3 HFPO-DA	89		50 - 150							

QC Sample Results

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Method: MFS - Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution

Lab Sample ID: MB 410-292696/1-A
Matrix: Water
Analysis Batch: 293889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292696

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MFS_N2	ND		1.0	0.20	ng/L		09/04/22 13:01	09/09/22 01:26	1
MFS_M3	ND		1.0	0.20	ng/L		09/04/22 13:01	09/09/22 01:26	1
MFS_N3	ND		1.0	0.20	ng/L		09/04/22 13:01	09/09/22 01:26	1
MFS_M4	ND		1.0	0.50	ng/L		09/04/22 13:01	09/09/22 01:26	1
MFS_N4	ND		2.0	1.0	ng/L		09/04/22 13:01	09/09/22 01:26	1
MFS_N5	ND		3.0	2.0	ng/L		09/04/22 13:01	09/09/22 01:26	1
		MB MB							
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA		87		50 - 150			09/04/22 13:01	09/09/22 01:26	1

Lab Sample ID: LCS 410-292696/2-A
Matrix: Water
Analysis Batch: 293889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MFS_M3	39.4	39.8		ng/L		101	70 - 130
MFS_N3	40.1	39.1		ng/L		98	70 - 130
MFS_M4	39.3	36.3		ng/L		92	70 - 130
MFS_N4	39.8	35.5		ng/L		89	70 - 130
MFS_N5	40.4	39.4		ng/L		98	70 - 130
		LCS LCS					
Isotope Dilution		%Recovery	Qualifier	Limits			
13C3 HFPO-DA		93		50 - 150			

Lab Sample ID: LCSD 410-292696/3-A
Matrix: Water
Analysis Batch: 293889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 292696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
MFS_N2	38.6	39.8		ng/L		103	70 - 130	0	30
MFS_M3	39.4	39.7		ng/L		101	70 - 130	0	30
MFS_N3	40.1	39.5		ng/L		99	70 - 130	1	30
MFS_M4	39.3	37.3		ng/L		95	70 - 130	3	30
MFS_N4	39.8	35.6		ng/L		90	70 - 130	1	30
MFS_N5	40.4	38.4		ng/L		95	70 - 130	3	30
		LCSD LCSD							
Isotope Dilution		%Recovery	Qualifier	Limits					
13C3 HFPO-DA		102		50 - 150					

QC Association Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

LCMS

Prep Batch: 292696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-94473-1	Influent_081222	Total/NA	Water	3535	
MB 410-292696/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-292696/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 410-292696/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 292700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-94473-1	Influent_081222	Total/NA	Water	3535	
MB 410-292700/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-292700/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 410-292700/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 293887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-94473-1	Influent_081222	Total/NA	Water	BFS	292700
MB 410-292700/1-A	Method Blank	Total/NA	Water	BFS	292700
LCS 410-292700/2-A	Lab Control Sample	Total/NA	Water	BFS	292700
LCSD 410-292700/3-A	Lab Control Sample Dup	Total/NA	Water	BFS	292700

Analysis Batch: 293889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-94473-1	Influent_081222	Total/NA	Water	MFS	292696
MB 410-292696/1-A	Method Blank	Total/NA	Water	MFS	292696
LCS 410-292696/2-A	Lab Control Sample	Total/NA	Water	MFS	292696
LCSD 410-292696/3-A	Lab Control Sample Dup	Total/NA	Water	MFS	292696

Lab Chronicle

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Client Sample ID: Influent_081222

Lab Sample ID: 410-94473-1

Date Collected: 08/12/22 13:45

Matrix: Water

Date Received: 08/12/22 18:15

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3535			292700	D5VP	ELLE	09/04/22 13:05
Total/NA	Analysis	BFS		1	293887	JVK6	ELLE	09/08/22 21:27
Total/NA	Prep	3535			292696	D5VP	ELLE	09/04/22 13:01
Total/NA	Analysis	MFS		1	293889	JVK6	ELLE	09/09/22 02:04

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Accreditation/Certification Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
BFS	3535	Water	BFS_A2B2
BFS	3535	Water	BFS_A2B3
BFS	3535	Water	BFS_A3B
BFS	3535	Water	BFS_A3B2
BFS	3535	Water	BFS_A4B
BFS	3535	Water	BFS_AB2
BFS	3535	Water	BFS_AB3
BFS	3535	Water	BFS_B3
BFS	3535	Water	BFS_B4
MFS	3535	Water	MFS_M3
MFS	3535	Water	MFS_M4
MFS	3535	Water	MFS_N2
MFS	3535	Water	MFS_N3
MFS	3535	Water	MFS_N4
MFS	3535	Water	MFS_N5

Method Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Method	Method Description	Protocol	Laboratory
BFS	Bi-functional Surfactants (BFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
MFS	Mono-functional Surfactants (MFS) by LC/MS/MS using Isotope Dilution	Client	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

Client = Client derived Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Integral Consulting Inc
Project/Site: MFS/BFS

Job ID: 410-94473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-94473-1	influent_081222	Water	08/12/22 13:45	08/12/22 18:15

1

2

3

4

5

6

7

8

9

10

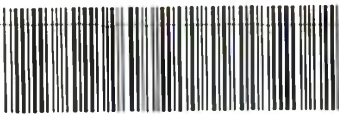
11

12

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15



v, LLC

Chain of Custody Record



Environment Testing
America

410-94473 Chain of Custody

Sampler: MJS		Lab PM: Zanar, Elizabeth M		Camer Tracking No(s)		COC No: 410-53399-15024 1															
Client Contact: Megan Jones		Phone: 609-413-6328		E-Mail: Elizabeth.Zanar@eurofinset.com		Page 1 of 1															
Company: Integral Consulting Inc		PWSID		Analysis Requested				Job #:													
Address: 110 Market Ave, St. 309		Due Date Requested:		Field Filtered Sample (Yes or No) Perform (MS/MSD) (Yes or No) BFS_IDA, MFS_IDA				Total Number of Containers		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)											
City: Moorestown, NJ		TAT Requested (days): 10-Day Standard																			
State, Zip: NJ, 08057		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																			
Phone: 503-943-3617 (Tel)		PO #: 3202																			
Email: mjohns@integral-corp.com		WO #:																			
Project Name: MFS/BFS		Project #: 41008576		SSOW#:		Other:															
Site: West Deptford, NJ		Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform (MS/MSD) (Yes or No)		BFS_IDA, MFS_IDA		Total Number of Containers		Special Instructions/Note:	
				Preservation Code:		N		X		↓		↓								HOLD	
		Influent_08/22		8-12-22		1345		G		Water											
		DUP_08/22		↓		↓		↓		Water											
										Water											
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Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 410-94473-1

Login Number: 94473

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Renner, Melissa

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	



Data Validation Report
Solvay Specialty Polymers – August Influent

Prepared for:

Integral Consulting, Inc.
319 SW Washington Street, Suite 1150
Portland, Oregon 97204

Prepared by:

EcoChem, Inc.
500 Union Street, Suite 1010
Seattle, Washington 98101

EcoChem Project: C22143-2

October 1, 2022

Approved for Release:

A handwritten signature in black ink, appearing to read "Christine Ransom". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Christine Ransom
Senior Project Chemist
EcoChem, Inc.

PROJECT NARRATIVE

Basis for Data Validation

This report summarizes the results of summary validation (Stage 2B) performed on influent sample data collected for the Solvay Specialty Polymers project. A cross reference of sample IDs provided in the Sample Index.

The analysis was done by Eurofins, Lancaster, Pennsylvania. The analytical methods and EcoChem project chemists are listed below.

ANALYSIS	METHOD	PRIMARY REVIEW	SECONDARY REVIEW
Bi-functional Surfactants	LC/MS/MS	A. Bodkin	C. Ransom
Mono-functional Surfactants	LC/MS/MS		

The data were reviewed using guidance and quality control criteria documented in the analytical methods; *Quality Assurance Project Plan – Solvay Specialty Polymers USA, LLC* (Integral, May 2021); *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2017).

EcoChem’s goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as APPENDIX A. A Qualified Data Summary Table is included in APPENDIX B. Data Validation Worksheets and project associated communications will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) is also submitted with this report.

Sample Index
Solvay Specialty Polymers - August Influent

SDG	SAMPLE ID	LAB ID	BFS	MFS
410-94473-1	Influent_081222	410-94473-1	✓	✓

DATA VALIDATION REPORT

Solvay Specialty Polymers – August 2022 Influent Bifunctional Surfactants by LC-MS/MS with Isotope Dilution

This report documents the review of analytical data from the analysis of one influent sample and the associated laboratory quality control (QC) samples. Analysis was performed by Eurofins, Lancaster, Pennsylvania. Refer to the **Sample Index** for a cross reference of sample IDs.

SDG	NUMBER OF SAMPLES AND MATRIX	VALIDATION LEVEL
J994473-1	1 Influent	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

All sample IDs and results reported in the electronic data deliverable (EDD) were verified (10% verification) by comparing the EDD to the hardcopy laboratory data package. Laboratory QC results were not included in the EDD.

TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

✓	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	✓	Internal Standards
✓	Continuing Calibration Verification	1	Field Duplicates
2	Instrument Blanks	✓	Target Analyte List
✓	Laboratory Blanks	✓	Reporting Limits
1	Field Blanks	✓	Reported Results
✓	Labeled Compounds	✓	Compound Identification
1	Laboratory Control Samples (LCS/LCSD)		

✓ Method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control results are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Instrument Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level was established at five times (5x) the concentration reported in the blank. If a contaminant was reported in an associated field sample and the concentration was less than the action level, the result was

qualified as not detected (U-7). No action was taken if the sample result was greater than the action level, or for non-detected results.

One instrument blank, ICB 410-293886/11, was analyzed. There was a positive result for BFS_AB3 in the instrument blank. The BFS_AB3 result in Sample Influent_081222 was less than the action level and was qualified as not detected (U-7).

Field Blanks

No field blanks were submitted.

Laboratory Control Samples

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries for BFS_A3B and BFS_AB2 were greater than the upper control limit, indicating a potential high bias. These analytes were not detected in the influent sample; no qualifiers were assigned.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were not performed. Laboratory precision and accuracy was evaluated using the LCS/LCSD analyses.

Field Duplicates

Field duplicates were not collected.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable as demonstrated by the labeled compound and LCS/LCSD recoveries and precision was acceptable as indicated by the LCS/LCSD relative percent difference values.

One detection limit was elevated based on instrument blank contamination.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT

Solvay Specialty Polymers – August 2022 Influent Monofunctional Surfactants by LC-MS/MS with Isotope Dilution

This report documents the review of analytical data from the analysis of one influent sample and the associated laboratory quality control (QC) samples. Analysis was performed by Eurofins, Lancaster, Pennsylvania. Refer to the **Sample Index** for a cross reference of sample IDs.

SDG	NUMBER OF SAMPLES AND MATRIX	VALIDATION LEVEL
J90323-1	1 Influent	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

All sample IDs and results reported in the electronic data deliverable (EDD) were verified (10% verification) by comparing the EDD to the hardcopy laboratory data package. Laboratory QC results were not included in the EDD.

TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

✓	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	✓	Internal Standards
✓	Continuing Calibration Verification	1	Field Duplicates
✓	Instrument Blanks	✓	Target Analyte List
✓	Laboratory Blanks	1	Reporting Limits
1	Field Blanks	✓	Reported Results
✓	Labeled Compounds	✓	Compound Identification
✓	Laboratory Control Samples (LCS/LCSD)		

✓ Method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control results are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Field Blanks

No field blanks were submitted.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were not performed. Laboratory precision and accuracy was evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses.

Field Duplicates

Field duplicates were not collected.

Reporting Limits

The method reporting limits (MRL) and method detection limits (MDL) for MFS_N4 and MFS_N5 were greater than the QAPP-specified limits.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable as demonstrated by the labeled compound and LCS/LCSD recoveries and precision was acceptable as indicated by the LCS/LCSD relative percent difference values.

No data were qualified for any reason. All data, as reported, are acceptable for use.



APPENDIX A

DATA QUALIFIER DEFINITIONS REASON CODES AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES **Based on National Functional Guidelines**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
-----	---

DATA QUALIFIER REASON CODES

Group	Code	Reason for Qualification
Sample Handling	1	Improper Sample Handling or Sample Preservation (i.e., headspace, cooler temperature, pH, summa canister pressure); Exceeded Holding Times
Instrument Performance	24	Instrument Performance (i.e., tune, resolution, retention time window, endrin breakdown, lock-mass)
	5A	Initial Calibration (RF, %RSD, r^2)
	5B	Calibration Verification (CCV, CCAL; RF, %D, %R) Use bias flags (H,L) ¹ where appropriate
	5C	Initial Calibration Verification (ICV %D, %R) Use bias flags (H,L) ¹ where appropriate
Blank Contamination	6	Field Blank Contamination (Equipment Rinsate, Trip Blank, etc.)
	7	Lab Blank Contamination (i.e., method blank, instrument blank, etc.) Use low bias flag (L) ¹ for negative instrument blanks
Precision and Accuracy	8	Matrix Spike (MS and/or MSD) Recoveries Use bias flags (H,L) ¹ where appropriate
	9	Precision (all replicates: LCS/LCSD, MS/MSD, Lab Replicate, Field Replicate)
	10	Laboratory Control Sample Recoveries (a.k.a. Blank Spikes) Use bias flags (H,L) ¹ where appropriate
	12	Reference Material Use bias flags (H,L) ¹ where appropriate
	13	Surrogate Spike Recoveries (a.k.a. labeled compounds, recovery standards) Use bias flags (H,L) ¹ where appropriate
Interferences	16	ICP/ICP-MS Serial Dilution Percent Difference
	17	ICP/ICP-MS Interference Check Standard Recovery Use bias flags (H,L) ¹ where appropriate
	19	Internal Standard Performance (i.e., area, retention time, recovery)
	22	Elevated Detection Limit due to Interference (i.e., chemical and/or matrix)
	23	Bias from Matrix Interference (i.e. diphenyl ether, PCB/pesticides)
Identification and Quantitation	2	Chromatographic pattern in sample does not match pattern of calibration standard
	3	2 nd column confirmation (RPD or %D)
	4	Tentatively Identified Compound (TIC) (associated with NJ only)
	20	Calibration Range or Linear Range Exceeded
	25	Compound Identification (i.e., ion ratio, retention time, relative abundance, etc.)
Miscellaneous	11	A more appropriate result is reported (multiple reported analyses i.e., dilutions, re-extractions, etc. Associated with "R" and "DNR" only)
	14	Other (See DV report for details)
	26	Method QC information not provided

¹H = high bias indicated

L = low bias indicated

DATA VALIDATION CRITERIA

Table: PFC-HPLC/MS/MS
 Revision No.: 0
 Last Rev. Date: 08/08/16
 Page: 1 of 2

**Perfluorinated Compounds by High Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS)
 (Based on EPA Method 537 rev 1.1)**

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	PTFE free containers store at < 0-6°C , not frozen	Method ⁽¹⁾	If required by project: J (pos)/UJ (ND) if greater than 10° C	1	Use PJ for temp outliers; see TM20
Holding Time	Extraction: 14 days from collection (waters) Analysis: 28 days from extraction No extraction HT specified for soils in method extracts should be stored in dark in amber vials < 4 +/-2°C	Method ⁽¹⁾	J (pos)/UJ (ND) if HT exceeded J (pos)/R (ND) if gross exceedance (> 2x HT)	1	
Instrument Performance					
Initial Calibration	%RSD of RRF< 20.0% or linear regression $r^2>0.990$ std within 70%-130% of true value lowest std within 50%-150% of true value	Method ⁽¹⁾	J (pos) if %RSD > 20%	5A	
Continuing Calibration Verification (CCV)	mid-level std - start of sequence and every 12 hours %R 70-130%	Method ⁽¹⁾	J (pos) if %R >130% (high bias) J (pos)/UJ (ND) if %R ≤ 70% (low bias)	5B (H,L) ³	
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch of (of ≤ 20 samples) No detected compounds > MDL (lab requiremnet no (pos) > RL)	Method (1) EcoChem standard policy	U(pos) if sample result is < 5X blank concentration	7	Hierarchy of blank review: #1 - Review MB, qualify as needed #2 - Review FB , qualify as needed
Field Blank (FB)	No detected compounds > MDL	EcoChem standard policy	U(pos) if sample result is < 5X blank concentration	6	
Precision and Accuracy					
Laboratory Control Sample (LCS)	One per lab batch (of ≤ 20 samples) Medium & High Level: 70%-130% Low Level: 50%-150%	Method ⁽¹⁾	Qualify all associated samples J(pos) if %R > UCL J(pos)/UJ(ND) if %R < LCL J(pos)/R(ND) if %R < 10% - very low bias	10 (H,L) ³	PJ - No action if LCSD analyzed and only one spike %R is outside criteria Qualify all associated samples
LCS/LCSD (RPD)	If LCSD analyzed RPD < lab limits	EcoChem standard policy	J (pos) if RPD > control limit	9	Qualify all associated samples

DATA VALIDATION CRITERIA

Table: PFC-HPLC/MS/MS
 Revision No.: 0
 Last Rev. Date: 08/08/16
 Page: 2 of 2

Perfluorinated Compounds by High Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS)
 (Based on EPA Method 537 rev 1.1)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Matrix Spike or MS/MSD (recovery)	One per lab batch (of ≤ 20 samples) Medium & High Level: 70%-130% Low Level: 50%-150%	Method ⁽¹⁾	Qualify parent only unless other QC indicates systematic problems: J(pos) if both %R > UCL J(pos)/UJ(ND) if both %R < LCL J(pos)/R(ND) if both %R < 10% J(pos)/UJ(ND) if one > UCL & one < LCL, with no bias	8 (H,L) ³	No action if only one spike %R is outside criteria. No action if parent concentration is >4x the amount spiked. These are default limits from SOP; lab may provide statistically derived limits Qualify parent sample only
MS/MSD (RPD)	If MSD analyzed RPD ≤ 30% (Aqueous)	Method ⁽¹⁾	J(pos) in parent sample if RPD > CL	9	Qualify parent sample only
Internal Standard	50%-150% of average areas of ICAL RT within 60 seconds of most recent CCV	Method ⁽¹⁾	J (pos) if > 200% J (pos)/UJ (ND) if < 50% J (pos)/R (ND) if < 25% if RT >30 seconds use PJ	19	
Surrogates	%R: 70%-130%	Method ⁽¹⁾	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	13 (H,L) ³	Qualify all associated compounds. These are default limits from SOP; lab may provide statistically derived limits
Field Duplicates	Aqueous: RPD ≤ 30% OR ≤ 50% RPD (for results < 2X RL)	Method ⁽¹⁾	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	Use project limits where specified in QAPP
Compound Identification and Quantitation and Calculation					
Retention times	Analytes with retention time window	Method ⁽¹⁾	U (pos) if identification criteria not met	25	
Calibration Range	Results less than highest calibration standard	EcoChem standard policy	J results > high standard	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	TM-04 EcoChem Policy for Rejection/Selection Process for Multiple Results

¹ Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), EPA Method 537 rev 1.1, September 2009

² EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.

(pos): Positive Result

(ND): Non-detects



ECO-CHEM
Data Quality

APPENDIX B

QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
Solvay Specialty Polymers - August Influent

Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flag	DV Qual	Reason Code
Influent_081222	410-94473-1	BFS_IDA_3535	bifunctional surfactant AB3	0.39	ng/L	J ^2	U	7