

 **ANALYTICAL REPORT****PREPARED FOR**

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JOB DESCRIPTION

Inwood - Lot 9

JOB NUMBER

460-273176-1

Eurofins Edison

Job Notes

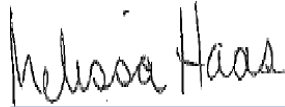
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Authorization



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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Inwood - Lot 9

Report Number: 460-273176-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/18/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Samples BCS-09-60_(15-15.5)P (460-273176-1), BCS-09-61_(15-15.5)P (460-273176-2), BCS-09-62_(17-17.5)P (460-273176-3), BCS-09-63_(15-15.5)P (460-273176-4), DUP_09_011823_1P (460-273176-5) and DUP_09_011823_2P (460-273176-6) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 01/24/2023 and analyzed on 01/26/2023.

The "I" qualifier associated with samples BCS-09-63_(15-15.5)P (460-273176-4) and DUP_09_011823_2P (460-273176-6) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

13C8 FOSA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: BCS-09-61_(15-15.5)P (460-273176-2). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

13C2 PFTeDA Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: BCS-09-60_(15-15.5)P (460-273176-1), BCS-09-60_(15-15.5)P (460-273176-1[MS]) and BCS-09-60_(15-15.5)P (460-273176-1[MSD]). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

No other difficulties were encountered during the PFAS analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples BCS-09-60_(15-15.5)P (460-273176-1), BCS-09-61_(15-15.5)P (460-273176-2), BCS-09-62_(17-17.5)P (460-273176-3), BCS-09-63_(15-15.5)P (460-273176-4), DUP_09_011823_1P (460-273176-5) and DUP_09_011823_2P (460-273176-6) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 01/25/2023.

The following samples have a percent solid content between 30% and 50% percent: BCS-09-61_(15-15.5)P (460-273176-2), BCS-09-62_(17-17.5)P (460-273176-3) and BCS-09-63_(15-15.5)P (460-273176-4)

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-273176-1	BCS-09-60_(15-15.5)P	Solid	01/18/23 12:05	01/18/23 18:00
460-273176-2	BCS-09-61_(15-15.5)P	Solid	01/18/23 12:15	01/18/23 18:00
460-273176-3	BCS-09-62_(17-17.5)P	Solid	01/18/23 12:25	01/18/23 18:00
460-273176-4	BCS-09-63_(15-15.5)P	Solid	01/18/23 12:35	01/18/23 18:00
460-273176-5	DUP_09_011823_1P	Solid	01/18/23 12:45	01/18/23 18:00
460-273176-6	DUP_09_011823_2P	Solid	01/18/23 12:55	01/18/23 18:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: BCS-09-60_(15-15.5)P

Lab Sample ID: 460-273176-1

No Detections.

Client Sample ID: BCS-09-61_(15-15.5)P

Lab Sample ID: 460-273176-2

No Detections.

Client Sample ID: BCS-09-62_(17-17.5)P

Lab Sample ID: 460-273176-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.11	J	0.40	0.091	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: BCS-09-63_(15-15.5)P

Lab Sample ID: 460-273176-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.23	J	0.41	0.22	ug/Kg	1	✳	537 (modified)	Total/NA

Client Sample ID: DUP_09_011823_1P

Lab Sample ID: 460-273176-5

No Detections.

Client Sample ID: DUP_09_011823_2P

Lab Sample ID: 460-273176-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.092	J	0.30	0.070	ug/Kg	1	✳	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
Moisture	Percent Moisture	EPA	EET BUR
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: BCS-09-60_(15-15.5)P

Lab Sample ID: 460-273176-1

Date Collected: 01/18/23 12:05

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 68.6

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.72	U	0.72	0.48	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluoropentanoic acid (PFPeA)	0.29	U	0.29	0.079	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorohexanoic acid (PFHxA)	0.29	U	0.29	0.066	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluoroheptanoic acid (PFHpA)	0.29	U	0.29	0.056	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorooctanoic acid (PFOA)	0.29	U	0.29	0.084	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorononanoic acid (PFNA)	0.29	U	0.29	0.049	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorodecanoic acid (PFDA)	0.29	U	0.29	0.040	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluoroundecanoic acid (PFUnA)	0.29	U	0.29	0.039	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorododecanoic acid (PFDoA)	0.29	U	0.29	0.036	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorotridecanoic acid (PFTriA)	0.29	U	0.29	0.036	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	0.29	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorobutanesulfonic acid (PFBS)	0.29	U	0.29	0.048	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.29	U	0.29	0.059	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluoroheptanesulfonic acid (PFHpS)	0.29	U	0.29	0.033	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorooctanesulfonic acid (PFOS)	0.29	U	0.29	0.16	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorodecanesulfonic acid (PFDS)	0.29	U	0.29	0.027	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
Perfluorooctanesulfonamide (FOSA)	0.29	U	0.29	0.049	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.89	U	2.89	0.16	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.89	U	2.89	0.12	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
6:2 FTS	2.89	U	2.89	0.082	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1
8:2 FTS	2.89	U	2.89	0.053	ug/Kg	☼	01/24/23 15:34	01/26/23 21:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	66		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C4 PFHpA	82		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C4 PFOA	78		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C4 PFOS	66		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C5 PFNA	83		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C4 PFBA	79		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C2 PFHxA	72		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C2 PFDA	83		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C2 PFUnA	68		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C2 PFDoA	62		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C8 FOSA	64		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C5 PFPeA	72		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C2 PFTeDA	45	*	50 - 150	01/24/23 15:34	01/26/23 21:40	1
d3-NMeFOSAA	81		50 - 150	01/24/23 15:34	01/26/23 21:40	1
d5-NEtFOSAA	87		50 - 150	01/24/23 15:34	01/26/23 21:40	1
M2-6:2 FTS	75		50 - 150	01/24/23 15:34	01/26/23 21:40	1
M2-8:2 FTS	71		50 - 150	01/24/23 15:34	01/26/23 21:40	1
13C3 PFBS	56		50 - 150	01/24/23 15:34	01/26/23 21:40	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: BCS-09-61_(15-15.5)P

Lab Sample ID: 460-273176-2

Date Collected: 01/18/23 12:15

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 25.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.95	U	1.95	1.29	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluoropentanoic acid (PFPeA)	0.78	U	0.78	0.22	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorohexanoic acid (PFHxA)	0.78	U	0.78	0.18	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluoroheptanoic acid (PFHpA)	0.78	U	0.78	0.15	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorooctanoic acid (PFOA)	0.78	U	0.78	0.23	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorononanoic acid (PFNA)	0.78	U	0.78	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorodecanoic acid (PFDA)	0.78	U	0.78	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluoroundecanoic acid (PFUnA)	0.78	U	0.78	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorododecanoic acid (PFDoA)	0.78	U	0.78	0.098	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorotridecanoic acid (PFTriA)	0.78	U	0.78	0.098	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorotetradecanoic acid (PFTeA)	0.78	U	0.78	0.10	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorobutanesulfonic acid (PFBS)	0.78	U	0.78	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.78	U	0.78	0.16	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluoroheptanesulfonic acid (PFHpS)	0.78	U	0.78	0.090	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorooctanesulfonic acid (PFOS)	0.78	U	0.78	0.43	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorodecanesulfonic acid (PFDS)	0.78	U	0.78	0.074	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Perfluorooctanesulfonamide (FOSA)	0.78	U	0.78	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.82	U	7.82	0.43	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	7.82	U	7.82	0.32	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
6:2 FTS	7.82	U	7.82	0.22	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
8:2 FTS	7.82	U	7.82	0.14	ug/Kg	☼	01/24/23 15:34	01/26/23 22:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	50		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C4 PFHpA	67		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C4 PFOA	60		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C4 PFOS	58		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C5 PFNA	66		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C4 PFBA	67		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C2 PFHxA	61		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C2 PFDA	61		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C2 PFUnA	68		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C2 PFDoA	61		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C8 FOSA	47 *		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C5 PFPeA	60		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C2 PFTeDA	56		50 - 150				01/24/23 15:34	01/26/23 22:05	1
d3-NMeFOSAA	69		50 - 150				01/24/23 15:34	01/26/23 22:05	1
d5-NEtFOSAA	76		50 - 150				01/24/23 15:34	01/26/23 22:05	1
M2-6:2 FTS	73		50 - 150				01/24/23 15:34	01/26/23 22:05	1
M2-8:2 FTS	90		50 - 150				01/24/23 15:34	01/26/23 22:05	1
13C3 PFBS	56		50 - 150				01/24/23 15:34	01/26/23 22:05	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: BCS-09-62_(17-17.5)P

Lab Sample ID: 460-273176-3

Date Collected: 01/18/23 12:25

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 49.5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.99	U	0.99	0.65	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorohexanoic acid (PFHxA)	0.11	J	0.40	0.091	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluoroheptanoic acid (PFHpA)	0.40	U	0.40	0.077	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorooctanoic acid (PFOA)	0.40	U	0.40	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorononanoic acid (PFNA)	0.40	U	0.40	0.067	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorodecanoic acid (PFDA)	0.40	U	0.40	0.055	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluoroundecanoic acid (PFUnA)	0.40	U	0.40	0.053	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorododecanoic acid (PFDoA)	0.40	U	0.40	0.049	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorotridecanoic acid (PFTriA)	0.40	U	0.40	0.049	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorotetradecanoic acid (PFTeA)	0.40	U	0.40	0.051	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorobutanesulfonic acid (PFBS)	0.40	U	0.40	0.065	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorohexanesulfonic acid (PFHxS)	0.40	U	0.40	0.081	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluoroheptanesulfonic acid (PFHpS)	0.40	U	0.40	0.045	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorooctanesulfonic acid (PFOS)	0.40	U	0.40	0.22	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorodecanesulfonic acid (PFDS)	0.40	U	0.40	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
Perfluorooctanesulfonamide (FOSA)	0.40	U	0.40	0.067	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.96	U	3.96	0.22	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.96	U	3.96	0.16	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
6:2 FTS	3.96	U	3.96	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1
8:2 FTS	3.96	U	3.96	0.073	ug/Kg	☼	01/24/23 15:34	01/26/23 22:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	60		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C4 PFHpA	74		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C4 PFOA	82		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C4 PFOS	69		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C5 PFNA	83		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C4 PFBA	74		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C2 PFHxA	78		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C2 PFDA	77		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C2 PFUnA	75		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C2 PFDoA	71		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C8 FOSA	57		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C5 PFPeA	75		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C2 PFTeDA	71		50 - 150	01/24/23 15:34	01/26/23 22:13	1
d3-NMeFOSAA	83		50 - 150	01/24/23 15:34	01/26/23 22:13	1
d5-NEtFOSAA	104		50 - 150	01/24/23 15:34	01/26/23 22:13	1
M2-6:2 FTS	89		50 - 150	01/24/23 15:34	01/26/23 22:13	1
M2-8:2 FTS	100		50 - 150	01/24/23 15:34	01/26/23 22:13	1
13C3 PFBS	63		50 - 150	01/24/23 15:34	01/26/23 22:13	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: BCS-09-63_(15-15.5)P

Lab Sample ID: 460-273176-4

Date Collected: 01/18/23 12:35

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 46.5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.02	U	1.02	0.67	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluoropentanoic acid (PFPeA)	0.41	U	0.41	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorohexanoic acid (PFHxA)	0.41	U	0.41	0.094	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluoroheptanoic acid (PFHpA)	0.41	U	0.41	0.079	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorooctanoic acid (PFOA)	0.41	U	0.41	0.12	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorononanoic acid (PFNA)	0.41	U	0.41	0.069	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorodecanoic acid (PFDA)	0.41	U	0.41	0.057	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluoroundecanoic acid (PFUnA)	0.41	U	0.41	0.055	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorododecanoic acid (PFDoA)	0.41	U	0.41	0.051	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorotridecanoic acid (PFTriA)	0.41	U	0.41	0.051	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorotetradecanoic acid (PFTeA)	0.41	U	0.41	0.053	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorobutanesulfonic acid (PFBS)	0.41	U	0.41	0.067	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorohexanesulfonic acid (PFHxS)	0.41	U	0.41	0.083	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluoroheptanesulfonic acid (PFHpS)	0.41	U	0.41	0.047	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorooctanesulfonic acid (PFOS)	0.23	J	0.41	0.22	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorodecanesulfonic acid (PFDS)	0.41	U	0.41	0.039	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Perfluorooctanesulfonamide (FOSA)	0.41	U	0.41	0.069	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.07	U	4.07	0.22	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.07	U	4.07	0.17	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
6:2 FTS	4.07	U	4.07	0.12	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
8:2 FTS	4.07	U	4.07	0.075	ug/Kg	☼	01/24/23 15:34	01/26/23 22:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	58		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C4 PFHpA	72		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C4 PFOA	76		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C4 PFOS	67		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C5 PFNA	78		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C4 PFBA	73		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C2 PFHxA	75		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C2 PFDA	73		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C2 PFUnA	70		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C2 PFDoA	68		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C8 FOSA	57		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C5 PFPeA	68		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C2 PFTeDA	79		50 - 150				01/24/23 15:34	01/26/23 22:29	1
d3-NMeFOSAA	83		50 - 150				01/24/23 15:34	01/26/23 22:29	1
d5-NEtFOSAA	93		50 - 150				01/24/23 15:34	01/26/23 22:29	1
M2-6:2 FTS	83		50 - 150				01/24/23 15:34	01/26/23 22:29	1
M2-8:2 FTS	102		50 - 150				01/24/23 15:34	01/26/23 22:29	1
13C3 PFBS	62		50 - 150				01/24/23 15:34	01/26/23 22:29	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: DUP_09_011823_1P

Lab Sample ID: 460-273176-5

Date Collected: 01/18/23 12:45

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 73.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.65	U	0.65	0.43	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluoropentanoic acid (PFPeA)	0.26	U	0.26	0.072	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.060	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluoroheptanoic acid (PFHpA)	0.26	U	0.26	0.051	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorooctanoic acid (PFOA)	0.26	U	0.26	0.076	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorononanoic acid (PFNA)	0.26	U	0.26	0.044	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorodecanoic acid (PFDA)	0.26	U	0.26	0.037	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluoroundecanoic acid (PFUnA)	0.26	U	0.26	0.035	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.033	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.033	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.034	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.043	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.054	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluoroheptanesulfonic acid (PFHpS)	0.26	U	0.26	0.030	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorooctanesulfonic acid (PFOS)	0.26	U	0.26	0.14	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorodecanesulfonic acid (PFDS)	0.26	U	0.26	0.025	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Perfluorooctanesulfonamide (FOSA)	0.26	U	0.26	0.044	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.61	U	2.61	0.14	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.61	U	2.61	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
6:2 FTS	2.61	U	2.61	0.074	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
8:2 FTS	2.61	U	2.61	0.048	ug/Kg	☼	01/24/23 15:34	01/26/23 22:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	55		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C4 PFHpA	69		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C4 PFOA	69		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C4 PFOS	57		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C5 PFNA	71		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C4 PFBA	71		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C2 PFHxA	69		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C2 PFDA	71		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C2 PFUnA	69		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C2 PFDoA	68		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C8 FOSA	53		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C5 PFPeA	64		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C2 PFTeA	67		50 - 150				01/24/23 15:34	01/26/23 22:54	1
d3-NMeFOSAA	76		50 - 150				01/24/23 15:34	01/26/23 22:54	1
d5-NEtFOSAA	87		50 - 150				01/24/23 15:34	01/26/23 22:54	1
M2-6:2 FTS	70		50 - 150				01/24/23 15:34	01/26/23 22:54	1
M2-8:2 FTS	80		50 - 150				01/24/23 15:34	01/26/23 22:54	1
13C3 PFBS	54		50 - 150				01/24/23 15:34	01/26/23 22:54	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: DUP_09_011823_2P

Lab Sample ID: 460-273176-6

Date Collected: 01/18/23 12:55

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 63.9

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.50	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluoropentanoic acid (PFPeA)	0.30	U	0.30	0.083	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorohexanoic acid (PFHxA)	0.092	J	0.30	0.070	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluoroheptanoic acid (PFHpA)	0.30	U	0.30	0.059	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorooctanoic acid (PFOA)	0.30	U	0.30	0.088	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorononanoic acid (PFNA)	0.30	U	0.30	0.052	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorodecanoic acid (PFDA)	0.30	U	0.30	0.042	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluoroundecanoic acid (PFUnA)	0.30	U	0.30	0.041	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorododecanoic acid (PFDoA)	0.30	U	0.30	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorotridecanoic acid (PFTriA)	0.30	U	0.30	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorotetradecanoic acid (PFTeA)	0.30	U	0.30	0.039	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorobutanesulfonic acid (PFBS)	0.30	U	0.30	0.050	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorohexanesulfonic acid (PFHxS)	0.30	U	0.30	0.062	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluoroheptanesulfonic acid (PFHpS)	0.30	U	0.30	0.035	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorooctanesulfonic acid (PFOS)	0.30	U	0.30	0.17	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorodecanesulfonic acid (PFDS)	0.30	U	0.30	0.029	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Perfluorooctanesulfonamide (FOSA)	0.30	U	0.30	0.052	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.03	U	3.03	0.17	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.03	U	3.03	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
6:2 FTS	3.03	U	3.03	0.086	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
8:2 FTS	3.03	U	3.03	0.056	ug/Kg	☼	01/24/23 15:34	01/26/23 23:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	68		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C4 PFHpA	83		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C4 PFOA	81		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C4 PFOS	72		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C5 PFNA	86		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C4 PFBA	84		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C2 PFHxA	88		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C2 PFDA	80		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C2 PFUnA	81		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C2 PFDoA	81		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C8 FOSA	60		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C5 PFPeA	82		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C2 PFTeDA	73		50 - 150				01/24/23 15:34	01/26/23 23:34	1
d3-NMeFOSAA	89		50 - 150				01/24/23 15:34	01/26/23 23:34	1
d5-NEtFOSAA	112		50 - 150				01/24/23 15:34	01/26/23 23:34	1
M2-6:2 FTS	106		50 - 150				01/24/23 15:34	01/26/23 23:34	1
M2-8:2 FTS	116		50 - 150				01/24/23 15:34	01/26/23 23:34	1
13C3 PFBS	69		50 - 150				01/24/23 15:34	01/26/23 23:34	1

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (50-150)	PFHxA (50-150)	PFDA (50-150)
460-273176-1	BCS-09-60_(15-15.5)P	66	82	78	66	83	79	72	83
460-273176-1 MS	BCS-09-60_(15-15.5)P	57	70	73	66	72	73	73	70
460-273176-1 MSD	BCS-09-60_(15-15.5)P	54	72	71	63	67	76	67	77
460-273176-2	BCS-09-61_(15-15.5)P	50	67	60	58	66	67	61	61
460-273176-3	BCS-09-62_(17-17.5)P	60	74	82	69	83	74	78	77
460-273176-4	BCS-09-63_(15-15.5)P	58	72	76	67	78	73	75	73
460-273176-4 MS	BCS-09-63_(15-15.5)P	62	75	78	81	83	79	90	79
460-273176-4 MSD	BCS-09-63_(15-15.5)P	60	70	86	72	85	81	81	81
460-273176-5	DUP_09_011823_1P	55	69	69	57	71	71	69	71
460-273176-6	DUP_09_011823_2P	68	83	81	72	86	84	88	80
LCS 200-187806/2-A	Lab Control Sample	63	87	85	73	80	76	78	80
MB 200-187806/1-A	Method Blank	63	79	79	76	76	78	83	82

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA (50-150)	PFDaA (50-150)	PFOSA (50-150)	PFPeA (50-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (50-150)
460-273176-1	BCS-09-60_(15-15.5)P	68	62	64	72	45 *	81	87	75
460-273176-1 MS	BCS-09-60_(15-15.5)P	63	50	60	69	38 *	74	72	65
460-273176-1 MSD	BCS-09-60_(15-15.5)P	66	59	62	71	34 *	83	86	73
460-273176-2	BCS-09-61_(15-15.5)P	68	61	47 *	60	56	69	76	73
460-273176-3	BCS-09-62_(17-17.5)P	75	71	57	75	71	83	104	89
460-273176-4	BCS-09-63_(15-15.5)P	70	68	57	68	79	83	93	83
460-273176-4 MS	BCS-09-63_(15-15.5)P	86	77	62	83	66	89	115	96
460-273176-4 MSD	BCS-09-63_(15-15.5)P	72	75	54	83	63	86	101	90
460-273176-5	DUP_09_011823_1P	69	68	53	64	67	76	87	70
460-273176-6	DUP_09_011823_2P	81	81	60	82	73	89	112	106
LCS 200-187806/2-A	Lab Control Sample	86	79	64	67	72	93	99	80
MB 200-187806/1-A	Method Blank	81	80	67	75	79	99	91	84

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M282FTS (50-150)	C3PFBS (50-150)
460-273176-1	BCS-09-60_(15-15.5)P	71	56
460-273176-1 MS	BCS-09-60_(15-15.5)P	70	62
460-273176-1 MSD	BCS-09-60_(15-15.5)P	78	66
460-273176-2	BCS-09-61_(15-15.5)P	90	56
460-273176-3	BCS-09-62_(17-17.5)P	100	63
460-273176-4	BCS-09-63_(15-15.5)P	102	62
460-273176-4 MS	BCS-09-63_(15-15.5)P	118	69
460-273176-4 MSD	BCS-09-63_(15-15.5)P	114	68
460-273176-5	DUP_09_011823_1P	80	54
460-273176-6	DUP_09_011823_2P	116	69
LCS 200-187806/2-A	Lab Control Sample	85	62
MB 200-187806/1-A	Method Blank	79	70

Surrogate Legend

- PFHxS = 18O2 PFHxS
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFOS = 13C4 PFOS
- PFNA = 13C5 PFNA

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC

Job ID: 460-273176-1

Project/Site: Inwood - Lot 9

PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-187806/1-A

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187806

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
6:2 FTS	2.00	U	2.00	0.057	ug/Kg		01/24/23 15:34	01/26/23 20:27	1
8:2 FTS	2.00	U	2.00	0.037	ug/Kg		01/24/23 15:34	01/26/23 20:27	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
18O2 PFHxS	63		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C4 PFHpA	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C4 PFOA	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C4 PFOS	76		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C5 PFNA	76		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C4 PFBA	78		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFHxA	83		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFDA	82		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFUnA	81		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFDoA	80		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C8 FOSA	67		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C5 PFPeA	75		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFTeDA	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1
d3-NMeFOSAA	99		50 - 150	01/24/23 15:34	01/26/23 20:27	1
d5-NEtFOSAA	91		50 - 150	01/24/23 15:34	01/26/23 20:27	1
M2-6:2 FTS	84		50 - 150	01/24/23 15:34	01/26/23 20:27	1
M2-8:2 FTS	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C3 PFBS	70		50 - 150	01/24/23 15:34	01/26/23 20:27	1

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-187806/2-A

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	2.051		ug/Kg		103	60 - 140
Perfluoropentanoic acid (PFPeA)	2.00	2.115		ug/Kg		106	60 - 140
Perfluorohexanoic acid (PFHxA)	2.00	2.076		ug/Kg		104	60 - 140
Perfluoroheptanoic acid (PFHpA)	2.00	1.975		ug/Kg		99	60 - 140
Perfluorooctanoic acid (PFOA)	2.00	1.750		ug/Kg		87	60 - 140
Perfluorononanoic acid (PFNA)	2.00	2.221		ug/Kg		111	60 - 140
Perfluorodecanoic acid (PFDA)	2.00	1.984		ug/Kg		99	60 - 140
Perfluoroundecanoic acid (PFUnA)	2.00	1.852		ug/Kg		93	60 - 140
Perfluorododecanoic acid (PFDoA)	2.00	1.926		ug/Kg		96	60 - 140
Perfluorotridecanoic acid (PFTriA)	2.00	1.909		ug/Kg		95	60 - 140
Perfluorotetradecanoic acid (PFTeA)	2.00	2.080		ug/Kg		104	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.77	1.951		ug/Kg		110	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.836		ug/Kg		101	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.912		ug/Kg		100	60 - 140
Perfluorooctanesulfonic acid (PFOS)	1.86	1.724		ug/Kg		93	60 - 140
Perfluorodecanesulfonic acid (PFDS)	1.93	1.626		ug/Kg		84	60 - 140
Perfluorooctanesulfonamide (FOSA)	2.00	2.247		ug/Kg		112	60 - 140
N-methylperfluorooctanesulfonamide (NMeFOSAA)	2.00	1.928	J	ug/Kg		96	60 - 140
N-ethylperfluorooctanesulfonamide (NEtFOSAA)	2.00	1.989	J	ug/Kg		99	60 - 140
6:2 FTS	1.90	1.904	J	ug/Kg		100	50 - 150
8:2 FTS	1.92	1.932	J	ug/Kg		101	60 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
18O2 PFHxS	63		50 - 150
13C4 PFHpA	87		50 - 150
13C4 PFOA	85		50 - 150
13C4 PFOS	73		50 - 150
13C5 PFNA	80		50 - 150
13C4 PFBA	76		50 - 150
13C2 PFHxA	78		50 - 150
13C2 PFDA	80		50 - 150
13C2 PFUnA	86		50 - 150
13C2 PFDoA	79		50 - 150
13C8 FOSA	64		50 - 150
13C5 PFPeA	67		50 - 150
13C2 PFTeA	72		50 - 150
d3-NMeFOSAA	93		50 - 150
d5-NEtFOSAA	99		50 - 150
M2-6:2 FTS	80		50 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-187806/2-A
Matrix: Solid
Analysis Batch: 187884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187806

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-8:2 FTS	85		50 - 150
13C3 PFBS	62		50 - 150

Lab Sample ID: 460-273176-1 MS
Matrix: Solid
Analysis Batch: 187884

Client Sample ID: BCS-09-60_(15-15.5)P
Prep Type: Total/NA
Prep Batch: 187806

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS MS</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
				<i>Result</i>	<i>Qualifier</i>				
Perfluorobutanoic acid (PFBA)	0.72	U	2.83	2.705		ug/Kg	☼	96	60 - 140
Perfluoropentanoic acid (PFPeA)	0.29	U	2.83	2.551		ug/Kg	☼	90	60 - 140
Perfluorohexanoic acid (PFHxA)	0.29	U	2.83	2.751		ug/Kg	☼	97	60 - 140
Perfluoroheptanoic acid (PFHpA)	0.29	U	2.83	3.036		ug/Kg	☼	107	60 - 140
Perfluorooctanoic acid (PFOA)	0.29	U	2.83	2.943		ug/Kg	☼	104	60 - 140
Perfluorononanoic acid (PFNA)	0.29	U	2.83	2.514		ug/Kg	☼	89	60 - 140
Perfluorodecanoic acid (PFDA)	0.29	U	2.83	2.700		ug/Kg	☼	95	60 - 140
Perfluoroundecanoic acid (PFUnA)	0.29	U	2.83	2.713		ug/Kg	☼	96	60 - 140
Perfluorododecanoic acid (PFDoA)	0.29	U	2.83	2.754		ug/Kg	☼	97	60 - 140
Perfluorotridecanoic acid (PFTriA)	0.29	U	2.83	2.482		ug/Kg	☼	88	60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.83	2.875		ug/Kg	☼	102	60 - 140
Perfluorobutanesulfonic acid (PFBS)	0.29	U	2.50	2.305		ug/Kg	☼	92	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	0.29	U	2.57	2.782		ug/Kg	☼	108	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	0.29	U	2.69	2.464		ug/Kg	☼	91	60 - 140
Perfluorooctanesulfonic acid (PFOS)	0.29	U	2.63	2.516		ug/Kg	☼	96	60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.29	U	2.73	1.795		ug/Kg	☼	66	60 - 140
Perfluorooctanesulfonamide (FOSA)	0.29	U	2.83	2.885		ug/Kg	☼	102	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.89	U	2.83	2.959		ug/Kg	☼	105	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.89	U	2.83	3.095		ug/Kg	☼	109	60 - 140
6:2 FTS	2.89	U	2.68	2.917		ug/Kg	☼	109	50 - 150
8:2 FTS	2.89	U	2.71	2.904		ug/Kg	☼	107	60 - 140

<i>Isotope Dilution</i>	<i>MS MS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
18O2 PFHxS	57		50 - 150
13C4 PFHpA	70		50 - 150
13C4 PFOA	73		50 - 150
13C4 PFOS	66		50 - 150
13C5 PFNA	72		50 - 150
13C4 PFBA	73		50 - 150
13C2 PFHxA	73		50 - 150
13C2 PFDA	70		50 - 150
13C2 PFUnA	63		50 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 460-273176-1 MS

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-60_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2 PFDoA	50		50 - 150
13C8 FOSA	60		50 - 150
13C5 PFPeA	69		50 - 150
13C2 PFTeDA	38	*	50 - 150
d3-NMeFOSAA	74		50 - 150
d5-NEtFOSAA	72		50 - 150
M2-6:2 FTS	65		50 - 150
M2-8:2 FTS	70		50 - 150
13C3 PFBS	62		50 - 150

Lab Sample ID: 460-273176-1 MSD

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-60_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec RPD		
				Result	Qualifier				Limits	RPD	Limit
Perfluorobutanoic acid (PFBA)	0.72	U	2.90	3.030		ug/Kg	☼	105	60 - 140	11	30
Perfluoropentanoic acid (PFPeA)	0.29	U	2.90	3.107		ug/Kg	☼	107	60 - 140	20	30
Perfluorohexanoic acid (PFHxA)	0.29	U	2.90	3.352		ug/Kg	☼	116	60 - 140	20	30
Perfluoroheptanoic acid (PFHpA)	0.29	U	2.90	3.289		ug/Kg	☼	114	60 - 140	8	30
Perfluorooctanoic acid (PFOA)	0.29	U	2.90	3.195		ug/Kg	☼	110	60 - 140	8	30
Perfluorononanoic acid (PFNA)	0.29	U	2.90	3.199		ug/Kg	☼	110	60 - 140	24	30
Perfluorodecanoic acid (PFDA)	0.29	U	2.90	2.488		ug/Kg	☼	86	60 - 140	8	30
Perfluoroundecanoic acid (PFUnA)	0.29	U	2.90	2.880		ug/Kg	☼	99	60 - 140	6	30
Perfluorododecanoic acid (PFDoA)	0.29	U	2.90	2.794		ug/Kg	☼	96	60 - 140	1	30
Perfluorotridecanoic acid (PFTriA)	0.29	U	2.90	2.219		ug/Kg	☼	77	60 - 140	11	30
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.90	2.680		ug/Kg	☼	93	60 - 140	7	30
Perfluorobutanesulfonic acid (PFBS)	0.29	U	2.56	2.607		ug/Kg	☼	102	60 - 140	12	30
Perfluorohexanesulfonic acid (PFHxS)	0.29	U	2.64	2.731		ug/Kg	☼	104	60 - 140	2	30
Perfluoroheptanesulfonic acid (PFHpS)	0.29	U	2.76	2.824		ug/Kg	☼	102	60 - 140	14	30
Perfluorooctanesulfonic acid (PFOS)	0.29	U	2.69	2.552		ug/Kg	☼	95	60 - 140	1	30
Perfluorodecanesulfonic acid (PFDS)	0.29	U	2.79	1.975		ug/Kg	☼	71	60 - 140	10	30
Perfluorooctanesulfonamide (FOSA)	0.29	U	2.90	2.866		ug/Kg	☼	99	60 - 140	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.89	U	2.90	2.906		ug/Kg	☼	100	60 - 140	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.89	U	2.90	3.002		ug/Kg	☼	104	60 - 140	3	30
6:2 FTS	2.89	U	2.75	2.800	J	ug/Kg	☼	102	50 - 150	4	30
8:2 FTS	2.89	U	2.77	2.780	J	ug/Kg	☼	100	60 - 140	4	30

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
18O2 PFHxS	54		50 - 150
13C4 PFHpA	72		50 - 150

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 460-273176-1 MSD
Matrix: Solid
Analysis Batch: 187884

Client Sample ID: BCS-09-60_(15-15.5)P
Prep Type: Total/NA
Prep Batch: 187806

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	71		50 - 150
13C4 PFOS	63		50 - 150
13C5 PFNA	67		50 - 150
13C4 PFBA	76		50 - 150
13C2 PFHxA	67		50 - 150
13C2 PFDA	77		50 - 150
13C2 PFUnA	66		50 - 150
13C2 PFDoA	59		50 - 150
13C8 FOSA	62		50 - 150
13C5 PFPeA	71		50 - 150
13C2 PFTeDA	34	*	50 - 150
d3-NMeFOSAA	83		50 - 150
d5-NEtFOSAA	86		50 - 150
M2-6:2 FTS	73		50 - 150
M2-8:2 FTS	78		50 - 150
13C3 PFBS	66		50 - 150

Lab Sample ID: 460-273176-4 MS
Matrix: Solid
Analysis Batch: 187884

Client Sample ID: BCS-09-63_(15-15.5)P
Prep Type: Total/NA
Prep Batch: 187806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Perfluorobutanoic acid (PFBA)	1.02	U	4.10	4.045		ug/Kg	☼	99	60 - 140
Perfluoropentanoic acid (PFPeA)	0.41	U	4.10	3.971		ug/Kg	☼	97	60 - 140
Perfluorohexanoic acid (PFHxA)	0.41	U	4.10	4.293		ug/Kg	☼	105	60 - 140
Perfluoroheptanoic acid (PFHpA)	0.41	U	4.10	4.263		ug/Kg	☼	104	60 - 140
Perfluorooctanoic acid (PFOA)	0.41	U	4.10	4.100		ug/Kg	☼	100	60 - 140
Perfluorononanoic acid (PFNA)	0.41	U	4.10	3.747		ug/Kg	☼	91	60 - 140
Perfluorodecanoic acid (PFDA)	0.41	U	4.10	4.208		ug/Kg	☼	103	60 - 140
Perfluoroundecanoic acid (PFUnA)	0.41	U	4.10	3.827		ug/Kg	☼	93	60 - 140
Perfluorododecanoic acid (PFDoA)	0.41	U	4.10	4.400		ug/Kg	☼	107	60 - 140
Perfluorotridecanoic acid (PFTriA)	0.41	U	4.10	3.590		ug/Kg	☼	87	60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.41	U	4.10	4.397		ug/Kg	☼	107	60 - 140
Perfluorobutanesulfonic acid (PFBS)	0.41	U	3.63	3.909		ug/Kg	☼	108	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	0.41	U	3.73	3.820		ug/Kg	☼	102	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	0.41	U	3.91	3.337		ug/Kg	☼	85	60 - 140
Perfluorooctanesulfonic acid (PFOS)	0.23	J	3.81	3.585		ug/Kg	☼	88	60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.41	U	3.96	3.386		ug/Kg	☼	86	60 - 140
Perfluorooctanesulfonamide (FOSA)	0.41	U	4.10	4.096		ug/Kg	☼	100	60 - 140
N-methylperfluorooctanesulfonamide (NMeFOSAA)	4.07	U	4.10	4.597		ug/Kg	☼	112	60 - 140

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 460-273176-4 MS

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-63_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	4.07	U	4.10	4.009	J	ug/Kg	☼	98	60 - 140	
6:2 FTS	4.07	U	3.89	4.148		ug/Kg	☼	107	50 - 150	
8:2 FTS	4.07	U	3.93	4.369		ug/Kg	☼	111	60 - 140	
MS MS										
Isotope Dilution	%Recovery	MS Qualifier	Limits							
18O2 PFHxS	62		50 - 150							
13C4 PFHpA	75		50 - 150							
13C4 PFOA	78		50 - 150							
13C4 PFOS	81		50 - 150							
13C5 PFNA	83		50 - 150							
13C4 PFBA	79		50 - 150							
13C2 PFHxA	90		50 - 150							
13C2 PFDA	79		50 - 150							
13C2 PFUnA	86		50 - 150							
13C2 PFDoA	77		50 - 150							
13C8 FOSA	62		50 - 150							
13C5 PFPeA	83		50 - 150							
13C2 PFTeDA	66		50 - 150							
d3-NMeFOSAA	89		50 - 150							
d5-NEtFOSAA	115		50 - 150							
M2-6:2 FTS	96		50 - 150							
M2-8:2 FTS	118		50 - 150							
13C3 PFBS	69		50 - 150							

Lab Sample ID: 460-273176-4 MSD

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-63_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	1.02	U	4.17	4.105		ug/Kg	☼	99	60 - 140	1	30
Perfluoropentanoic acid (PFPeA)	0.41	U	4.17	3.580		ug/Kg	☼	86	60 - 140	10	30
Perfluorohexanoic acid (PFHxA)	0.41	U	4.17	3.903		ug/Kg	☼	94	60 - 140	10	30
Perfluoroheptanoic acid (PFHpA)	0.41	U	4.17	5.096		ug/Kg	☼	122	60 - 140	18	30
Perfluorooctanoic acid (PFOA)	0.41	U	4.17	3.409		ug/Kg	☼	82	60 - 140	18	30
Perfluorononanoic acid (PFNA)	0.41	U	4.17	3.732		ug/Kg	☼	90	60 - 140	0	30
Perfluorodecanoic acid (PFDA)	0.41	U	4.17	3.927		ug/Kg	☼	94	60 - 140	7	30
Perfluoroundecanoic acid (PFUnA)	0.41	U	4.17	4.026		ug/Kg	☼	97	60 - 140	5	30
Perfluorododecanoic acid (PFDoA)	0.41	U	4.17	3.697		ug/Kg	☼	89	60 - 140	17	30
Perfluorotridecanoic acid (PFTriA)	0.41	U	4.17	3.473		ug/Kg	☼	83	60 - 140	3	30
Perfluorotetradecanoic acid (PFTeA)	0.41	U	4.17	4.049		ug/Kg	☼	97	60 - 140	8	30
Perfluorobutanesulfonic acid (PFBS)	0.41	U	3.68	3.513		ug/Kg	☼	95	60 - 140	11	30
Perfluorohexanesulfonic acid (PFHxS)	0.41	U	3.79	3.782		ug/Kg	☼	100	60 - 140	1	30
Perfluoroheptanesulfonic acid (PFHpS)	0.41	U	3.97	3.622		ug/Kg	☼	91	60 - 140	8	30

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
 Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 460-273176-4 MSD

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-63_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Perfluorooctanesulfonic acid (PFOS)	0.23	J	3.87	3.547		ug/Kg	☼	86	60 - 140	1	30
Perfluorodecanesulfonic acid (PFDS)	0.41	U	4.02	2.989		ug/Kg	☼	74	60 - 140	12	30
Perfluorooctanesulfonamide (FOSA)	0.41	U	4.17	4.049		ug/Kg	☼	97	60 - 140	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.07	U	4.17	4.649		ug/Kg	☼	112	60 - 140	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.07	U	4.17	4.091	J	ug/Kg	☼	98	60 - 140	2	30
6:2 FTS	4.07	U	3.95	4.140	J	ug/Kg	☼	105	50 - 150	0	30
8:2 FTS	4.07	U	3.99	4.287		ug/Kg	☼	107	60 - 140	2	30

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
18O2 PFHxS	60		50 - 150
13C4 PFHpA	70		50 - 150
13C4 PFOA	86		50 - 150
13C4 PFOS	72		50 - 150
13C5 PFNA	85		50 - 150
13C4 PFBA	81		50 - 150
13C2 PFHxA	81		50 - 150
13C2 PFDA	81		50 - 150
13C2 PFUnA	72		50 - 150
13C2 PFDoA	75		50 - 150
13C8 FOSA	54		50 - 150
13C5 PFPeA	83		50 - 150
13C2 PFTeDA	63		50 - 150
d3-NMeFOSAA	86		50 - 150
d5-NEtFOSAA	101		50 - 150
M2-6:2 FTS	90		50 - 150
M2-8:2 FTS	114		50 - 150
13C3 PFBS	68		50 - 150

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

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
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

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

LCMS

Prep Batch: 187806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273176-1	BCS-09-60_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273176-2	BCS-09-61_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273176-3	BCS-09-62_(17-17.5)P	Total/NA	Solid	SHAKE	
460-273176-4	BCS-09-63_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273176-5	DUP_09_011823_1P	Total/NA	Solid	SHAKE	
460-273176-6	DUP_09_011823_2P	Total/NA	Solid	SHAKE	
MB 200-187806/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-187806/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-273176-1 MS	BCS-09-60_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273176-1 MSD	BCS-09-60_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273176-4 MS	BCS-09-63_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273176-4 MSD	BCS-09-63_(15-15.5)P	Total/NA	Solid	SHAKE	

Analysis Batch: 187884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273176-1	BCS-09-60_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273176-2	BCS-09-61_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273176-3	BCS-09-62_(17-17.5)P	Total/NA	Solid	537 (modified)	187806
460-273176-4	BCS-09-63_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273176-5	DUP_09_011823_1P	Total/NA	Solid	537 (modified)	187806
460-273176-6	DUP_09_011823_2P	Total/NA	Solid	537 (modified)	187806
MB 200-187806/1-A	Method Blank	Total/NA	Solid	537 (modified)	187806
LCS 200-187806/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	187806
460-273176-1 MS	BCS-09-60_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273176-1 MSD	BCS-09-60_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273176-4 MS	BCS-09-63_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273176-4 MSD	BCS-09-63_(15-15.5)P	Total/NA	Solid	537 (modified)	187806

General Chemistry

Analysis Batch: 187837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273176-1	BCS-09-60_(15-15.5)P	Total/NA	Solid	Moisture	
460-273176-2	BCS-09-61_(15-15.5)P	Total/NA	Solid	Moisture	
460-273176-3	BCS-09-62_(17-17.5)P	Total/NA	Solid	Moisture	
460-273176-4	BCS-09-63_(15-15.5)P	Total/NA	Solid	Moisture	
460-273176-5	DUP_09_011823_1P	Total/NA	Solid	Moisture	
460-273176-6	DUP_09_011823_2P	Total/NA	Solid	Moisture	
460-273176-6 DU	DUP_09_011823_2P	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: BCS-09-60_(15-15.5)P

Lab Sample ID: 460-273176-1

Date Collected: 01/18/23 12:05

Matrix: Solid

Date Received: 01/18/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187837	RWM	EET BUR	01/25/23 16:13

Client Sample ID: BCS-09-60_(15-15.5)P

Lab Sample ID: 460-273176-1

Date Collected: 01/18/23 12:05

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 21:40

Client Sample ID: BCS-09-61_(15-15.5)P

Lab Sample ID: 460-273176-2

Date Collected: 01/18/23 12:15

Matrix: Solid

Date Received: 01/18/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187837	RWM	EET BUR	01/25/23 16:13

Client Sample ID: BCS-09-61_(15-15.5)P

Lab Sample ID: 460-273176-2

Date Collected: 01/18/23 12:15

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 25.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 22:05

Client Sample ID: BCS-09-62_(17-17.5)P

Lab Sample ID: 460-273176-3

Date Collected: 01/18/23 12:25

Matrix: Solid

Date Received: 01/18/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187837	RWM	EET BUR	01/25/23 16:13

Client Sample ID: BCS-09-62_(17-17.5)P

Lab Sample ID: 460-273176-3

Date Collected: 01/18/23 12:25

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 49.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 22:13

Client Sample ID: BCS-09-63_(15-15.5)P

Lab Sample ID: 460-273176-4

Date Collected: 01/18/23 12:35

Matrix: Solid

Date Received: 01/18/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187837	RWM	EET BUR	01/25/23 16:13

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Client Sample ID: BCS-09-63_(15-15.5)P

Lab Sample ID: 460-273176-4

Date Collected: 01/18/23 12:35

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 46.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 22:29

Client Sample ID: DUP_09_011823_1P

Lab Sample ID: 460-273176-5

Date Collected: 01/18/23 12:45

Matrix: Solid

Date Received: 01/18/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187837	RWM	EET BUR	01/25/23 16:13

Client Sample ID: DUP_09_011823_1P

Lab Sample ID: 460-273176-5

Date Collected: 01/18/23 12:45

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 22:54

Client Sample ID: DUP_09_011823_2P

Lab Sample ID: 460-273176-6

Date Collected: 01/18/23 12:55

Matrix: Solid

Date Received: 01/18/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187837	RWM	EET BUR	01/25/23 16:13

Client Sample ID: DUP_09_011823_2P

Lab Sample ID: 460-273176-6

Date Collected: 01/18/23 12:55

Matrix: Solid

Date Received: 01/18/23 18:00

Percent Solids: 63.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 23:34

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-273176-1

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22 *
New Hampshire	NELAP	2006	12-18-23
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22 *
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-23
Wisconsin	State	399133350	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method PFC IDA

Fluorinated Hydrocarbons by Method
PFAS IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
BCS-09-60_(15-15.5))P	460-273176-1	79	72	56	72	82	66	75	78
BCS-09-61_(15-15.5))P	460-273176-2	67	60	56	61	67	50	73	60
BCS-09-62_(17-17.5))P	460-273176-3	74	75	63	78	74	60	89	82
BCS-09-63_(15-15.5))P	460-273176-4	73	68	62	75	72	58	83	76
DUP_09_011823_1P	460-273176-5	71	64	54	69	69	55	70	69
DUP_09_011823_2P	460-273176-6	84	82	69	88	83	68	106	81
	MB 200-187806/1-A	78	75	70	83	79	63	84	79
	LCS 200-187806/2-A	76	67	62	78	87	63	80	85
BCS-09-60_(15-15.5))P MS	460-273176-1 MS	73	69	62	73	70	57	65	73
BCS-09-63_(15-15.5))P MS	460-273176-4 MS	79	83	69	90	75	62	96	78
BCS-09-60_(15-15.5))P MSD	460-273176-1 MSD	76	71	66	67	72	54	73	71
BCS-09-63_(15-15.5))P MSD	460-273176-4 MSD	81	83	68	81	70	60	90	86

QC LIMITS

PFBA = 13C4 PFBA	50-150
PFPeA = 13C5 PFPeA	50-150
C3PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHxS = 18O2 PFHxS	50-150
C4PFHA = 13C4 PFHpA	50-150
M262FTS = M2-6:2 FTS	50-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFDA #	M282FTS #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #
BCS-09-60_(15-15.5))P	460-273176-1	66	83	83	71	64	81	68	87
BCS-09-61_(15-15.5))P	460-273176-2	58	66	61	90	47 *	69	68	76
BCS-09-62_(17-17.5))P	460-273176-3	69	83	77	100	57	83	75	104
BCS-09-63_(15-15.5))P	460-273176-4	67	78	73	102	57	83	70	93
DUP_09_011823_1P	460-273176-5	57	71	71	80	53	76	69	87
DUP_09_011823_2P	460-273176-6	72	86	80	116	60	89	81	112
	MB 200-187806/1-A	76	76	82	79	67	99	81	91
	LCS 200-187806/2-A	73	80	80	85	64	93	86	99
BCS-09-60_(15-15.5))P MS	460-273176-1 MS	66	72	70	70	60	74	63	72
BCS-09-63_(15-15.5))P MS	460-273176-4 MS	81	83	79	118	62	89	86	115
BCS-09-60_(15-15.5))P MSD	460-273176-1 MSD	63	67	77	78	62	83	66	86
BCS-09-63_(15-15.5))P MSD	460-273176-4 MSD	72	85	81	114	54	86	72	101

QC LIMITS

PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	50-150
PFOSA = 13C8 FOSA	50-150
d3NMFOS = d3-NMeFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
BCS-09-60_(15-15.5))P	460-273176-1	62	45 *
BCS-09-61_(15-15.5))P	460-273176-2	61	56
BCS-09-62_(17-17.5))P	460-273176-3	71	71
BCS-09-63_(15-15.5))P	460-273176-4	68	79
DUP_09_011823_1P	460-273176-5	68	67
DUP_09_011823_2P	460-273176-6	81	73
	MB 200-187806/1-A	80	79
	LCS 200-187806/2-A	79	72
BCS-09-60_(15-15.5))P MS	460-273176-1 MS	50	38 *
BCS-09-63_(15-15.5))P MS	460-273176-4 MS	77	66
BCS-09-60_(15-15.5))P MSD	460-273176-1 MSD	59	34 *
BCS-09-63_(15-15.5))P MSD	460-273176-4 MSD	75	63

PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA

QC LIMITS
50-150
50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A07.d
 Lab ID: LCS 200-187806/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.00	2.051	103	60-140	
Perfluoropentanoic acid (PFPeA)	2.00	2.115	106	60-140	
Perfluorohexanoic acid (PFHxA)	2.00	2.076	104	60-140	
Perfluoroheptanoic acid (PFHpA)	2.00	1.975	99	60-140	
Perfluorooctanoic acid (PFOA)	2.00	1.750	87	60-140	
Perfluorononanoic acid (PFNA)	2.00	2.221	111	60-140	
Perfluorodecanoic acid (PFDA)	2.00	1.984	99	60-140	
Perfluoroundecanoic acid (PFUnA)	2.00	1.852	93	60-140	
Perfluorododecanoic acid (PFDoA)	2.00	1.926	96	60-140	
Perfluorotridecanoic acid (PFTriA)	2.00	1.909	95	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.00	2.080	104	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.77	1.951	110	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.836	101	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.912	100	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.86	1.724	93	60-140	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.626	84	60-140	
Perfluorooctanesulfonamide (FOSA)	2.00	2.247	112	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.928 J	96	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.989 J	99	60-140	
6:2 FTS	1.90	1.904 J	100	50-150	
8:2 FTS	1.92	1.932 J	101	60-140	
18O2 PFHxS	2.37	1.502	63	50-150	
13C4 PFHpA	2.50	2.186	87	50-150	
13C4 PFOA	2.50	2.125	85	50-150	
13C4 PFOS	2.39	1.752	73	50-150	
13C5 PFNA	2.50	1.991	80	50-150	
13C4 PFBA	2.50	1.906	76	50-150	
13C2 PFHxA	2.50	1.944	78	50-150	
13C2 PFDA	2.50	1.992	80	50-150	
13C2 PFUnA	2.50	2.160	86	50-150	
13C2 PFDoA	2.50	1.975	79	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: PA230126A07.d

Lab ID: LCS 200-187806/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C8 FOSA	2.50	1.602	64	50-150	
13C5 PFPeA	2.50	1.680	67	50-150	
13C2 PFTeDA	2.50	1.793	72	50-150	
d3-NMeFOSAA	2.50	2.336	93	50-150	
d5-NEtFOSAA	2.50	2.465	99	50-150	
M2-6:2 FTS	2.38	1.896	80	50-150	
M2-8:2 FTS	2.40	2.036	85	50-150	
13C3 PFBS	2.33	1.446	62	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington

Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: PA230126A16.d

Lab ID: 460-273176-1 MS

Client ID: BCS-09-60_(15-15.5)P MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.83	0.72 U	2.705	96	60-140	
Perfluoropentanoic acid (PFPeA)	2.83	0.29 U	2.551	90	60-140	
Perfluorohexanoic acid (PFHxA)	2.83	0.29 U	2.751	97	60-140	
Perfluoroheptanoic acid (PFHpA)	2.83	0.29 U	3.036	107	60-140	
Perfluorooctanoic acid (PFOA)	2.83	0.29 U	2.943	104	60-140	
Perfluorononanoic acid (PFNA)	2.83	0.29 U	2.514	89	60-140	
Perfluorodecanoic acid (PFDA)	2.83	0.29 U	2.700	95	60-140	
Perfluoroundecanoic acid (PFUnA)	2.83	0.29 U	2.713	96	60-140	
Perfluorododecanoic acid (PFDoA)	2.83	0.29 U	2.754	97	60-140	
Perfluorotridecanoic acid (PFTriA)	2.83	0.29 U	2.482	88	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.83	0.29 U	2.875	102	60-140	
Perfluorobutanesulfonic acid (PFBS)	2.50	0.29 U	2.305	92	60-140	
Perfluorohexanesulfonic acid (PFHxS)	2.57	0.29 U	2.782	108	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.69	0.29 U	2.464	91	60-140	
Perfluorooctanesulfonic acid (PFOS)	2.63	0.29 U	2.516	96	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.73	0.29 U	1.795	66	60-140	
Perfluorooctanesulfonamide (FOSA)	2.83	0.29 U	2.885	102	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.83	2.89 U	2.959	105	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.83	2.89 U	3.095	109	60-140	
6:2 FTS	2.68	2.89 U	2.917	109	50-150	
8:2 FTS	2.71	2.89 U	2.904	107	60-140	
18O2 PFHxS	3.35	2.26	1.911	57	50-150	
13C4 PFHpA	3.54	2.94	2.475	70	50-150	
13C4 PFOA	3.54	2.82	2.566	73	50-150	
13C4 PFOS	3.38	2.29	2.219	66	50-150	
13C5 PFNA	3.54	3.01	2.539	72	50-150	
13C4 PFBA	3.54	2.84	2.585	73	50-150	
13C2 PFHxA	3.54	2.60	2.598	73	50-150	
13C2 PFDA	3.54	2.99	2.464	70	50-150	
13C2 PFUnA	3.54	2.46	2.220	63	50-150	
13C2 PFDoA	3.54	2.22	1.770	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A16.d
 Lab ID: 460-273176-1 MS Client ID: BCS-09-60_(15-15.5)P MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C8 FOSA	3.54	2.30	2.117	60	50-150	
13C5 PFPeA	3.54	2.61	2.443	69	50-150	
13C2 PFTeDA	3.54	1.62	1.340	38	50-150	*
d3-NMeFOSAA	3.54	2.92	2.611	74	50-150	
d5-NEtFOSAA	3.54	3.15	2.563	72	50-150	
M2-6:2 FTS	3.36	2.56	2.182	65	50-150	
M2-8:2 FTS	3.39	2.47	2.382	70	50-150	
13C3 PFBS	3.29	1.89	2.054	62	50-150	

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington

Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: PA230126A22.d

Lab ID: 460-273176-4 MS

Client ID: BCS-09-63_(15-15.5)P MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	4.10	1.02 U	4.045	99	60-140	
Perfluoropentanoic acid (PFPeA)	4.10	0.41 U	3.971	97	60-140	
Perfluorohexanoic acid (PFHxA)	4.10	0.41 U	4.293	105	60-140	
Perfluoroheptanoic acid (PFHpA)	4.10	0.41 U	4.263	104	60-140	
Perfluorooctanoic acid (PFOA)	4.10	0.41 U	4.100	100	60-140	
Perfluorononanoic acid (PFNA)	4.10	0.41 U	3.747	91	60-140	
Perfluorodecanoic acid (PFDA)	4.10	0.41 U	4.208	103	60-140	
Perfluoroundecanoic acid (PFUnA)	4.10	0.41 U	3.827	93	60-140	
Perfluorododecanoic acid (PFDoA)	4.10	0.41 U	4.400	107	60-140	
Perfluorotridecanoic acid (PFTriA)	4.10	0.41 U	3.590	87	60-140	
Perfluorotetradecanoic acid (PFTeA)	4.10	0.41 U	4.397	107	60-140	
Perfluorobutanesulfonic acid (PFBS)	3.63	0.41 U	3.909	108	60-140	
Perfluorohexanesulfonic acid (PFHxS)	3.73	0.41 U	3.820	102	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	3.91	0.41 U	3.337	85	60-140	
Perfluorooctanesulfonic acid (PFOS)	3.81	0.23 J	3.585	88	60-140	
Perfluorodecanesulfonic acid (PFDS)	3.96	0.41 U	3.386	86	60-140	
Perfluorooctanesulfonamide (FOSA)	4.10	0.41 U	4.096	100	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.10	4.07 U	4.597	112	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.10	4.07 U	4.009 J	98	60-140	
6:2 FTS	3.89	4.07 U	4.148	107	50-150	
8:2 FTS	3.93	4.07 U	4.369	111	60-140	
18O2 PFHxS	4.85	2.77	3.016	62	50-150	
13C4 PFHpA	5.13	3.65	3.852	75	50-150	
13C4 PFOA	5.13	3.86	3.995	78	50-150	
13C4 PFOS	4.90	3.25	3.992	81	50-150	
13C5 PFNA	5.13	3.96	4.270	83	50-150	
13C4 PFBA	5.13	3.71	4.062	79	50-150	
13C2 PFHxA	5.13	3.81	4.603	90	50-150	
13C2 PFDA	5.13	3.74	4.033	79	50-150	
13C2 PFUnA	5.13	3.55	4.411	86	50-150	
13C2 PFDoA	5.13	3.46	3.967	77	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A22.d
 Lab ID: 460-273176-4 MS Client ID: BCS-09-63_(15-15.5)P MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C8 FOSA	5.13	2.91	3.168	62	50-150	
13C5 PFPeA	5.13	3.46	4.274	83	50-150	
13C2 PFTeDA	5.13	4.00	3.398	66	50-150	
d3-NMeFOSAA	5.13	4.23	4.582	89	50-150	
d5-NEtFOSAA	5.13	4.74	5.916	115	50-150	
M2-6:2 FTS	4.87	4.03	4.657	96	50-150	
M2-8:2 FTS	4.91	4.97	5.816	118	50-150	
13C3 PFBS	4.77	2.95	3.307	69	50-150	

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington

Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: PA230126A17.d

Lab ID: 460-273176-1 MSD

Client ID: BCS-09-60_(15-15.5)P MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	2.90	3.030	105	11	30	60-140	
Perfluoropentanoic acid (PFPeA)	2.90	3.107	107	20	30	60-140	
Perfluorohexanoic acid (PFHxA)	2.90	3.352	116	20	30	60-140	
Perfluoroheptanoic acid (PFHpA)	2.90	3.289	114	8	30	60-140	
Perfluorooctanoic acid (PFOA)	2.90	3.195	110	8	30	60-140	
Perfluorononanoic acid (PFNA)	2.90	3.199	110	24	30	60-140	
Perfluorodecanoic acid (PFDA)	2.90	2.488	86	8	30	60-140	
Perfluoroundecanoic acid (PFUnA)	2.90	2.880	99	6	30	60-140	
Perfluorododecanoic acid (PFDoA)	2.90	2.794	96	1	30	60-140	
Perfluorotridecanoic acid (PFTriA)	2.90	2.219	77	11	30	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.90	2.680	93	7	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	2.56	2.607	102	12	30	60-140	
Perfluorohexanesulfonic acid (PFHxS)	2.64	2.731	104	2	30	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.76	2.824	102	14	30	60-140	
Perfluorooctanesulfonic acid (PFOS)	2.69	2.552	95	1	30	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.79	1.975	71	10	30	60-140	
Perfluorooctanesulfonamide (FOSA)	2.90	2.866	99	1	30	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.90	2.906	100	2	30	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.90	3.002	104	3	30	60-140	
6:2 FTS	2.75	2.800 J	102	4	30	50-150	
8:2 FTS	2.77	2.780 J	100	4	30	60-140	
18O2 PFHxS	3.43	1.865	54			50-150	
13C4 PFHpA	3.62	2.618	72			50-150	
13C4 PFOA	3.62	2.583	71			50-150	
13C4 PFOS	3.46	2.191	63			50-150	
13C5 PFNA	3.62	2.425	67			50-150	
13C4 PFBA	3.62	2.744	76			50-150	
13C2 PFHxA	3.62	2.408	67			50-150	
13C2 PFDA	3.62	2.795	77			50-150	
13C2 PFUnA	3.62	2.404	66			50-150	
13C2 PFDoA	3.62	2.150	59			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A17.d
 Lab ID: 460-273176-1 MSD Client ID: BCS-09-60_(15-15.5)P MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C8 FOSA	3.62	2.239	62			50-150	
13C5 PFPeA	3.62	2.559	71			50-150	
13C2 PFTeDA	3.62	1.233	34			50-150	*
d3-NMeFOSAA	3.62	3.013	83			50-150	
d5-NEtFOSAA	3.62	3.118	86			50-150	
M2-6:2 FTS	3.44	2.527	73			50-150	
M2-8:2 FTS	3.47	2.711	78			50-150	
13C3 PFBS	3.37	2.226	66			50-150	

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington

Job No.: 460-273176-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: PA230126A23.d

Lab ID: 460-273176-4 MSD

Client ID: BCS-09-63_(15-15.5)P MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	4.17	4.105	99	1	30	60-140	
Perfluoropentanoic acid (PFPeA)	4.17	3.580	86	10	30	60-140	
Perfluorohexanoic acid (PFHxA)	4.17	3.903	94	10	30	60-140	
Perfluoroheptanoic acid (PFHpA)	4.17	5.096	122	18	30	60-140	
Perfluorooctanoic acid (PFOA)	4.17	3.409	82	18	30	60-140	
Perfluorononanoic acid (PFNA)	4.17	3.732	90	0	30	60-140	
Perfluorodecanoic acid (PFDA)	4.17	3.927	94	7	30	60-140	
Perfluoroundecanoic acid (PFUnA)	4.17	4.026	97	5	30	60-140	
Perfluorododecanoic acid (PFDoA)	4.17	3.697	89	17	30	60-140	
Perfluorotridecanoic acid (PFTriA)	4.17	3.473	83	3	30	60-140	
Perfluorotetradecanoic acid (PFTeA)	4.17	4.049	97	8	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	3.68	3.513	95	11	30	60-140	
Perfluorohexanesulfonic acid (PFHxS)	3.79	3.782	100	1	30	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	3.97	3.622	91	8	30	60-140	
Perfluorooctanesulfonic acid (PFOS)	3.87	3.547	86	1	30	60-140	
Perfluorodecanesulfonic acid (PFDS)	4.02	2.989	74	12	30	60-140	
Perfluorooctanesulfonamide (FOSA)	4.17	4.049	97	1	30	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.17	4.649	112	1	30	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.17	4.091 J	98	2	30	60-140	
6:2 FTS	3.95	4.140 J	105	0	30	50-150	
8:2 FTS	3.99	4.287	107	2	30	60-140	
18O2 PFHxS	4.93	2.940	60			50-150	
13C4 PFHpA	5.21	3.641	70			50-150	
13C4 PFOA	5.21	4.504	86			50-150	
13C4 PFOS	4.98	3.579	72			50-150	
13C5 PFNA	5.21	4.408	85			50-150	
13C4 PFBA	5.21	4.215	81			50-150	
13C2 PFHxA	5.21	4.232	81			50-150	
13C2 PFDA	5.21	4.212	81			50-150	
13C2 PFUnA	5.21	3.760	72			50-150	
13C2 PFDoA	5.21	3.900	75			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A23.d
 Lab ID: 460-273176-4 MSD Client ID: BCS-09-63_(15-15.5)P MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C8 FOSA	5.21	2.825	54			50-150	
13C5 PFPeA	5.21	4.330	83			50-150	
13C2 PFTeDA	5.21	3.280	63			50-150	
d3-NMeFOSAA	5.21	4.496	86			50-150	
d5-NEtFOSAA	5.21	5.280	101			50-150	
M2-6:2 FTS	4.95	4.444	90			50-150	
M2-8:2 FTS	4.99	5.667	114			50-150	
13C3 PFBS	4.84	3.309	68			50-150	

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab File ID: PA230126A06.d Lab Sample ID: MB 200-187806/1-A
 Matrix: Solid Date Extracted: 01/24/2023 15:34
 Instrument ID: LC812 Date Analyzed: 01/26/2023 20:27
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-187806/2-A	PA230126A07 .d	01/26/2023 20:35
BCS-09-60_(15-15.5)P	460-273176-1	PA230126A15 .d	01/26/2023 21:40
BCS-09-60_(15-15.5)P MS	460-273176-1 MS	PA230126A16 .d	01/26/2023 21:48
BCS-09-60_(15-15.5)P MSD	460-273176-1 MSD	PA230126A17 .d	01/26/2023 21:57
BCS-09-61_(15-15.5)P	460-273176-2	PA230126A18 .d	01/26/2023 22:05
BCS-09-62_(17-17.5)P	460-273176-3	PA230126A19 .d	01/26/2023 22:13
BCS-09-63_(15-15.5)P	460-273176-4	PA230126A21 .d	01/26/2023 22:29
BCS-09-63_(15-15.5)P MS	460-273176-4 MS	PA230126A22 .d	01/26/2023 22:37
BCS-09-63_(15-15.5)P MSD	460-273176-4 MSD	PA230126A23 .d	01/26/2023 22:46
DUP_09_011823_1P	460-273176-5	PA230126A24 .d	01/26/2023 22:54
DUP_09_011823_2P	460-273176-6	PA230126A29 .d	01/26/2023 23:34

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Instrument I LC812 Calibration Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.6 (mm) Calibration End Date: 01/11/2023 18:23
 Calibration ID: 49712

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1800555	3.44				
UPPER LIMIT		2700833	3.64				
LOWER LIMIT		900278	3.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-187441/11		1973325	3.46				
ICV 200-187441/12		2579133	3.46				
CCB 200-187884/4		1655117	3.44				
CCVLIS 200-187884/5		1791794	3.44				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Sample No.: CCVLIS 200-187884/5 Date Analyzed: 01/26/2023 20:19
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA230126A05.d Heated Purge: (Y/N) N
 Calibration ID: 49712

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		1791794	3.44				
UPPER LIMIT		2687691	3.64				
LOWER LIMIT		895897	3.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-187806/1-A		1789915	3.43				
LCS 200-187806/2-A		1880247	3.44				
460-273176-1	BCS-09-60_(15-15.5) P	1719477	3.44				
460-273176-1 MS	BCS-09-60_(15-15.5) P MS	1818871	3.44				
460-273176-1 MSD	BCS-09-60_(15-15.5) P MSD	1704147	3.44				
460-273176-2	BCS-09-61_(15-15.5) P	1595405	3.44				
460-273176-3	BCS-09-62_(17-17.5) P	1761877	3.45				
CCV 200-187884/20		1648139	3.44				
460-273176-4	BCS-09-63_(15-15.5) P	1730668	3.44				
460-273176-4 MS	BCS-09-63_(15-15.5) P MS	1646021	3.43				
460-273176-4 MSD	BCS-09-63_(15-15.5) P MSD	1702849	3.44				
460-273176-5	DUP_09_011823_1P	1711253	3.44				
460-273176-6	DUP_09_011823_2P	1606772	3.44				
CCV 200-187884/30		1608557	3.44				

13PFOA = 13C2 PFOA
 13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-60_(15-15.5)P Lab Sample ID: 460-273176-1
 Matrix: Solid Lab File ID: PA230126A15.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:05
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.05(g) Date Analyzed: 01/26/2023 21:40
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 31.4 % Solids: 68.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.72	U	0.72	0.48
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.29	U	0.29	0.079
307-24-4	Perfluorohexanoic acid (PFHxA)	0.29	U	0.29	0.066
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.29	U	0.29	0.056
335-67-1	Perfluorooctanoic acid (PFOA)	0.29	U	0.29	0.084
375-95-1	Perfluorononanoic acid (PFNA)	0.29	U	0.29	0.049
335-76-2	Perfluorodecanoic acid (PFDA)	0.29	U	0.29	0.040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.29	U	0.29	0.039
307-55-1	Perfluorododecanoic acid (PFDoA)	0.29	U	0.29	0.036
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.29	U	0.29	0.036
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	0.29	0.038
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.29	U	0.29	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.29	U	0.29	0.059
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.29	U	0.29	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.29	U	0.29	0.16
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.29	U	0.29	0.027
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.29	U	0.29	0.049
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.89	U	2.89	0.16
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.89	U	2.89	0.12
27619-97-2	6:2 FTS	2.89	U	2.89	0.082
39108-34-4	8:2 FTS	2.89	U	2.89	0.053

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-60_(15-15.5)P Lab Sample ID: 460-273176-1
 Matrix: Solid Lab File ID: PA230126A15.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:05
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.05(g) Date Analyzed: 01/26/2023 21:40
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 31.4 % Solids: 68.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	66		50-150
STL01892	13C4 PFHpA	82		50-150
STL00990	13C4 PFOA	78		50-150
STL00991	13C4 PFOS	66		50-150
STL00995	13C5 PFNA	83		50-150
STL00992	13C4 PFBA	79		50-150
STL00993	13C2 PFHxA	72		50-150
STL00996	13C2 PFDA	83		50-150
STL00997	13C2 PFUnA	68		50-150
STL00998	13C2 PFDoA	62		50-150
STL01056	13C8 FOSA	64		50-150
STL01893	13C5 PFPeA	72		50-150
STL02116	13C2 PFTeDA	45	*	50-150
STL02118	d3-NMeFOSAA	81		50-150
STL02117	d5-NEtFOSAA	87		50-150
STL02279	M2-6:2 FTS	75		50-150
STL02280	M2-8:2 FTS	71		50-150
STL02337	13C3 PFBS	56		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
 Lims ID: 460-273176-A-1-A
 Client ID: BCS-09-60_(15-15.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 21:40:45 ALS Bottle#: 12 Worklist Smp#: 15
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-1-A
 Misc. Info.: 200-0054135-015 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 17:29:05
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	1554679	0.9830	78.6	13205	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.000	54627	0.002965		4.9		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1155982	0.9042	72.3	5015	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.343	2.370	-0.027	0.983	5177	0.004888		0.2		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	920919	0.6561	56.4	93334	
D 60 M2-4:2 FTS	329.00 > 81.00	2.693	2.669	0.024	0.782	74461	0.6562	56.2	84.0	M
D 7 13C2 PFHxA	315.00 > 270.00	2.718	2.694	0.024	0.789	1195423	0.8999	72.0	6002	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.830	2.806	0.024	1.000	38	0.000256		0.6		M
D 64 13C3 HFPO-DA	287.00 > 169.00	2.830	2.806	0.024	0.822	185675	0.8068	64.5	2533	
D 11 18O2 PFHxS	403.00 > 84.00	3.091	3.069	0.022	0.898	800690	0.7840	66.3	3780	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.080	3.069	0.011	0.996	2754	0.003705	Target=3.18	3.9		RM
399.00 > 99.00	3.091	3.069	0.022	1.000	3450		0.80(1.59-4.77)	1.4		M
D 9 13C4 PFHpA	367.00 > 322.00	3.091	3.069	0.022	0.898	1356077	1.02	81.6	4431	
D 12 M2-6:2 FTS	429.00 > 81.00	3.434	3.417	0.017	0.997	143063	0.8887	74.8	326	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.443	3.417	0.026	1.003	183	0.000663			0.5	M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1376985	0.9772		78.2	13112	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1719477	1.25			5831	
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	492765	0.7936		66.4	1227	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.753	3.754	-0.001	0.997	5237	0.0105	Target=4.23		3.1	RM
499.00 > 99.00	3.597	3.754	-0.157	0.956	61549		0.09(2.11-6.34)		54.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1432460	1.04		83.5	7392	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1459777	1.04		82.9	6393	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	172559	0.8556		71.4	515	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.144	4.144	0.0	1.000	470	0.000640			3.8	M
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	912903	0.7976		63.8	3985	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.227	280041	1.01		80.9	1675	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.226	4.226	0.0	1.000	176	0.000871			1.1	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1034899	0.8515		68.1	5795	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.215	4.358	-0.143	0.967	387	0.001790			2.7	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.266	290824	1.09		87.5	840	
D 36 13C2 PFDoA										
615.00 > 570.00	4.594	4.584	0.010	1.334	938597	0.7701		61.6	5282	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.616	4.606	0.010	1.130	314	0.001900			5.2	M
41 Perfluorotridecanoic acid										R
663.00 > 619.00	4.770	4.799	-0.029	1.038	3575	0.004682	Target=6.06		0.4	R
663.00 > 169.00	4.808	4.799	0.009	1.047	298		12.00(3.03-9.09)		4.2	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.008	4.998	0.010	1.000	279	0.004751	Target=0.83		7.1	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.008	4.998	0.010	1.454	587954	0.5609		44.9	4461	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.373	5.362	0.011	1.000	6211	-0.001364	Target=6.74		1.9	
813.00 > 169.00	5.373	5.362	0.011	1.000	1047		5.93(3.37-10.11)		32.9	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.373	5.362	0.011	1.560	590055	0.4593		36.7	3414	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d

Injection Date: 26-Jan-2023 21:40:45

Instrument ID: LC812

Lims ID: 460-273176-A-1-A

Lab Sample ID: 200-273176-1

Client ID: BCS-09-60_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 12

Worklist Smp#: 15

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

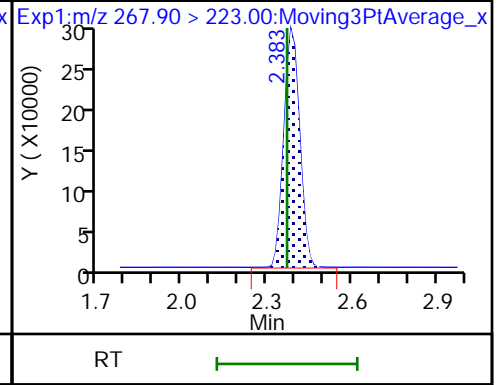
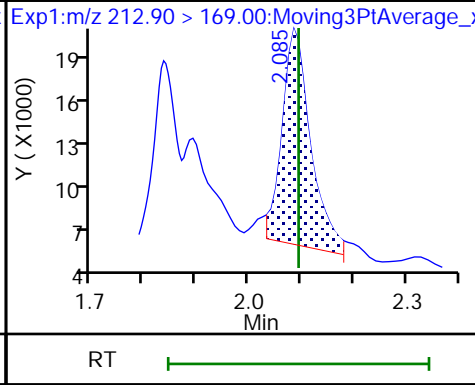
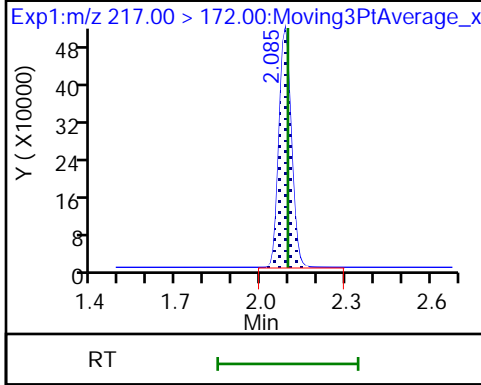
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

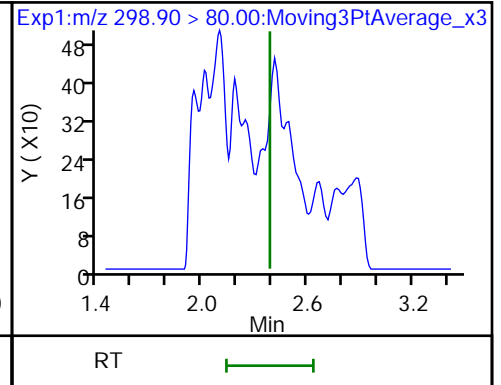
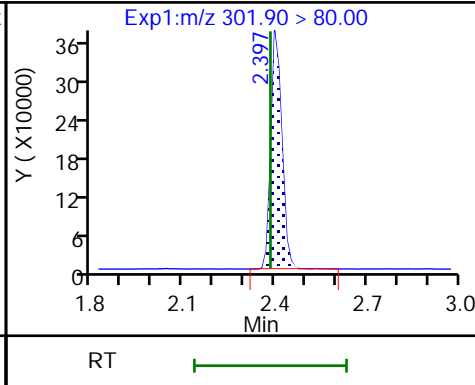
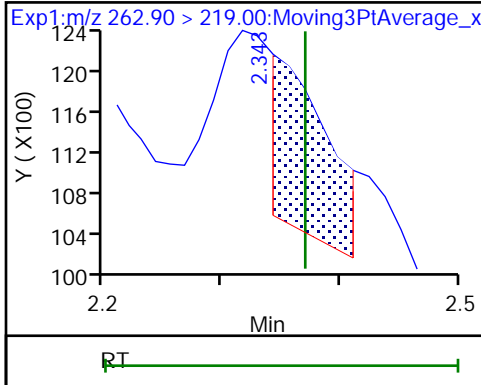
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

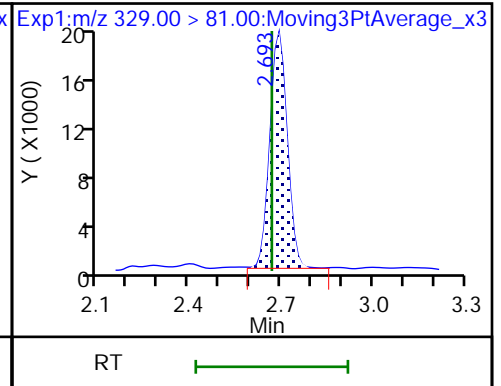
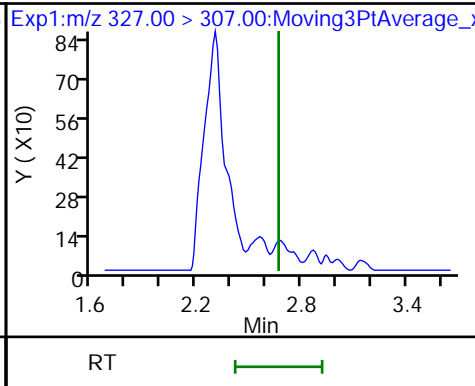
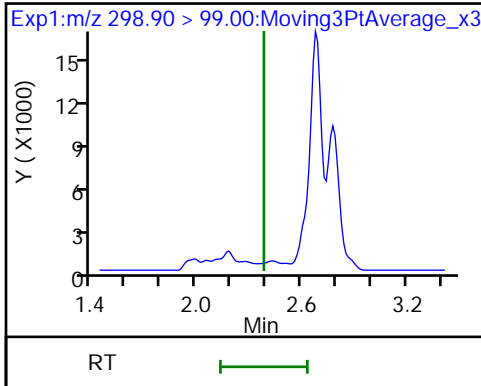
5 Perfluorobutanesulfonic acid (ND)



5 Perfluorobutanesulfonic acid (ND)

61 1H,1H,2H,2H-perfluorohexanesulfo (ND)

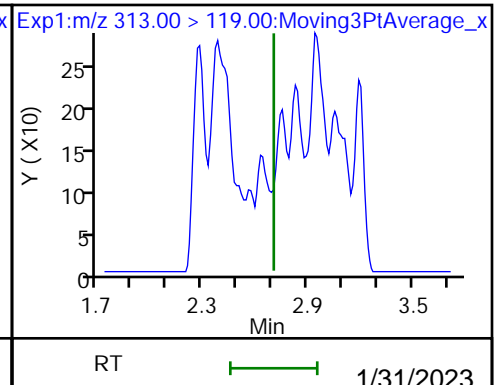
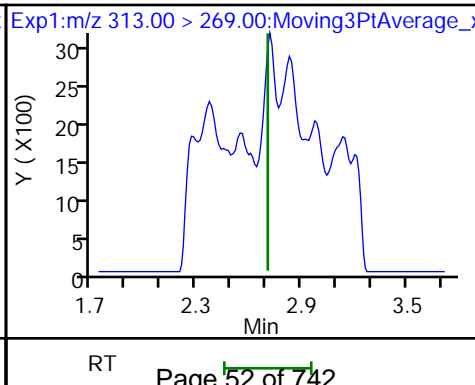
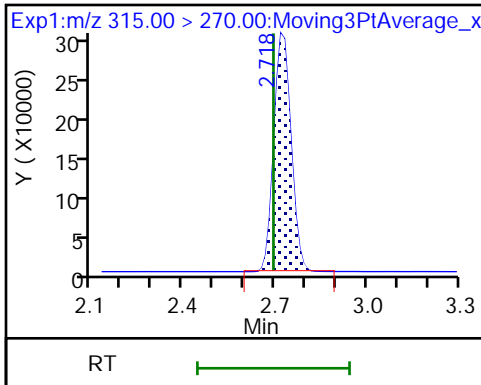
(ND) M2-4:2 FTS (M)



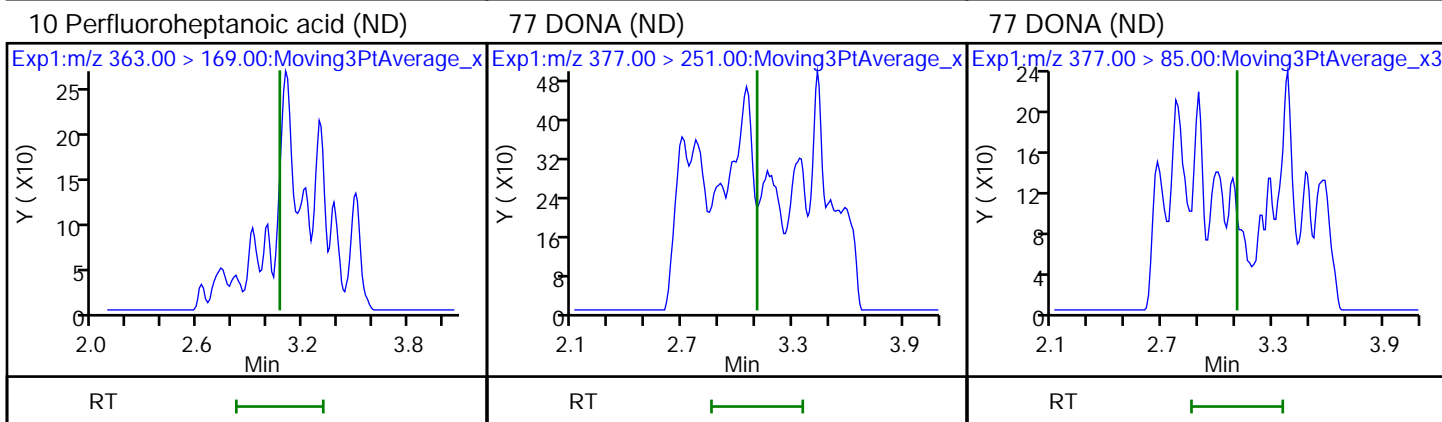
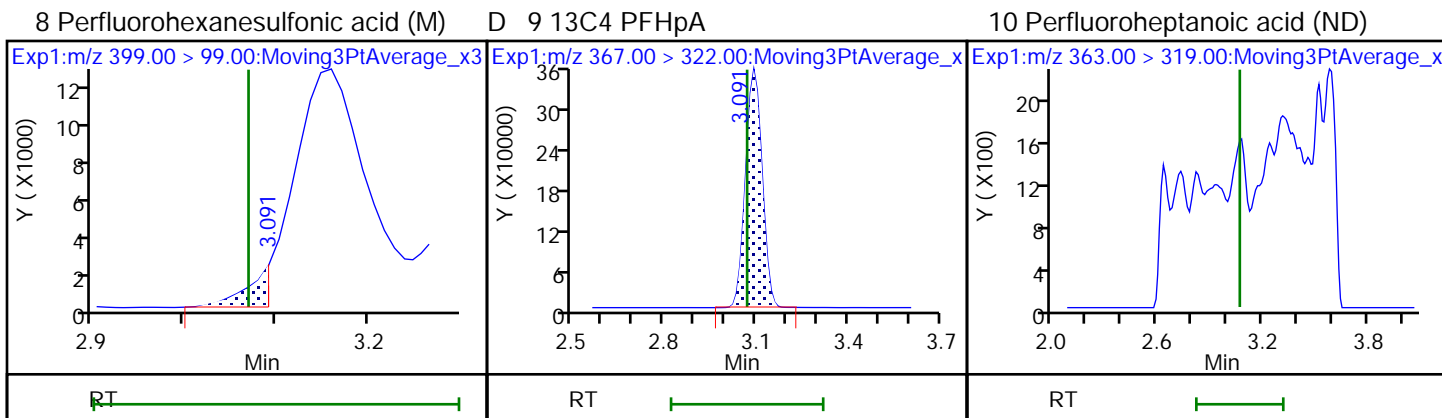
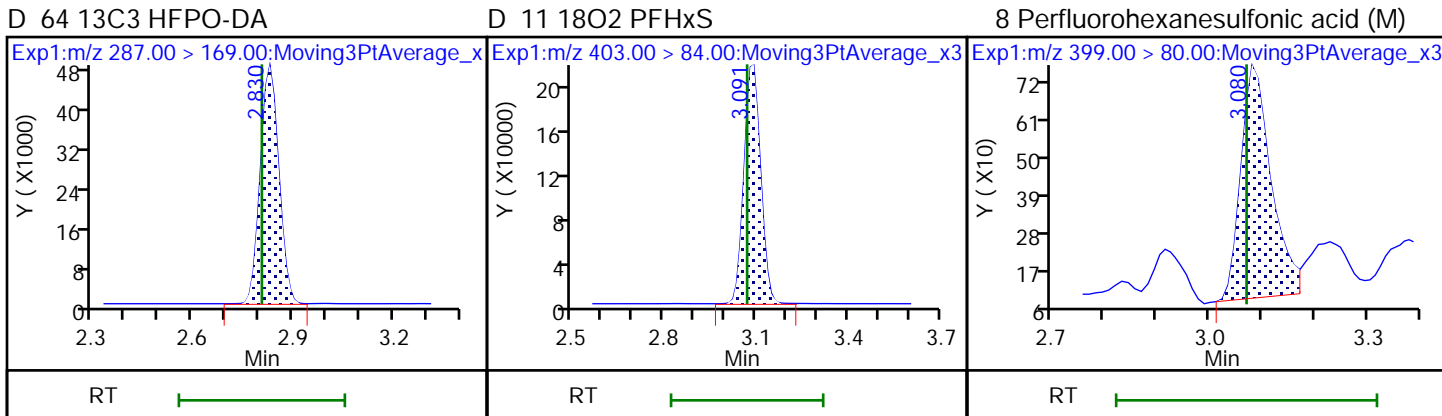
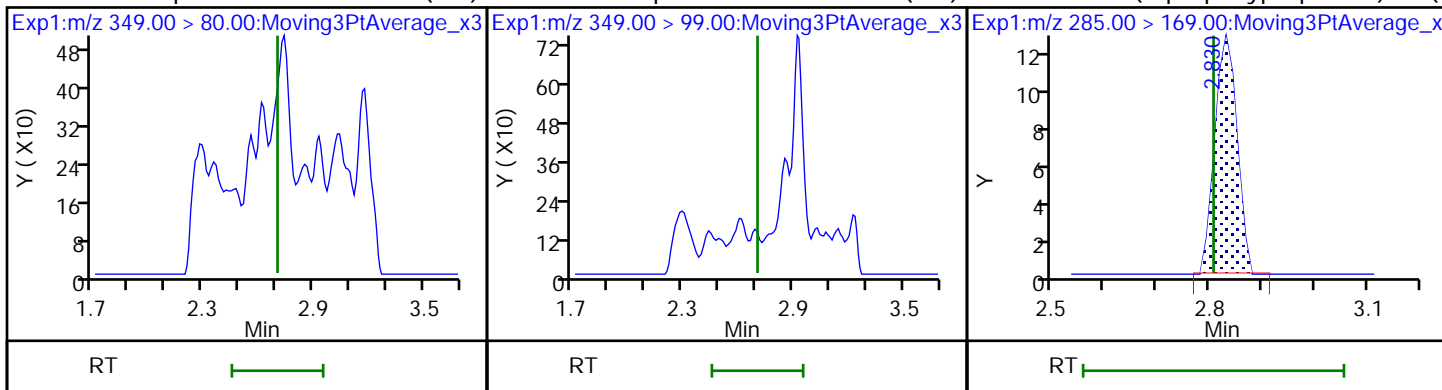
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)

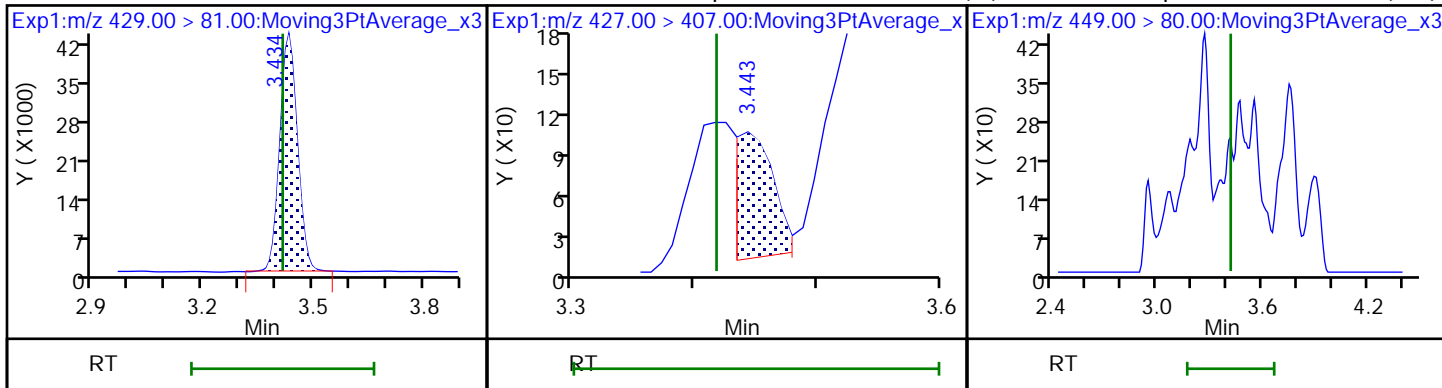


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



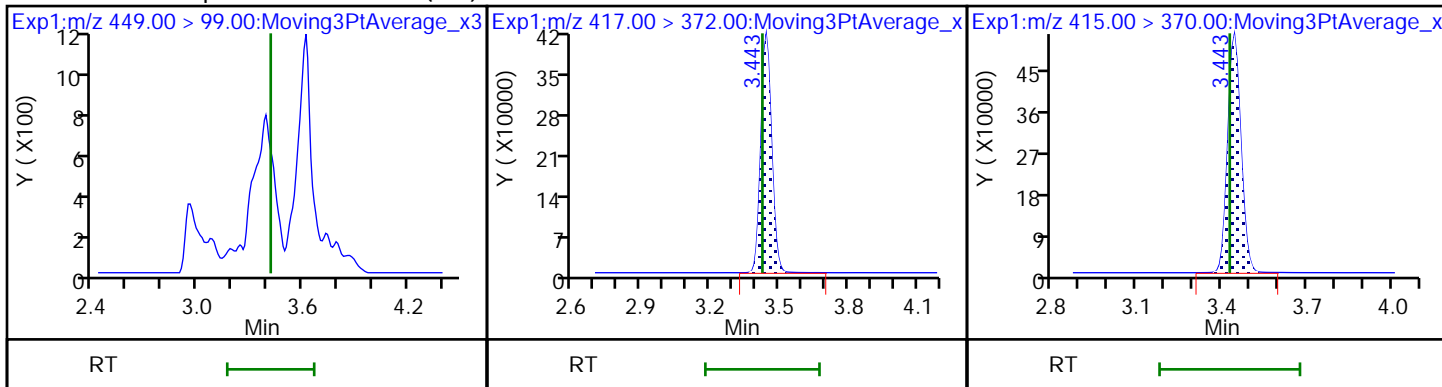
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

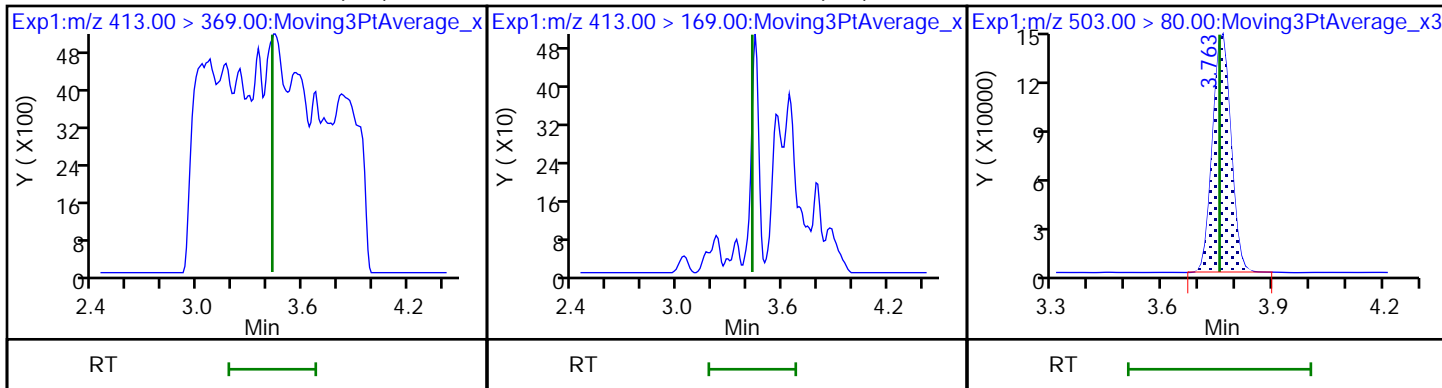
* 62 13C2 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

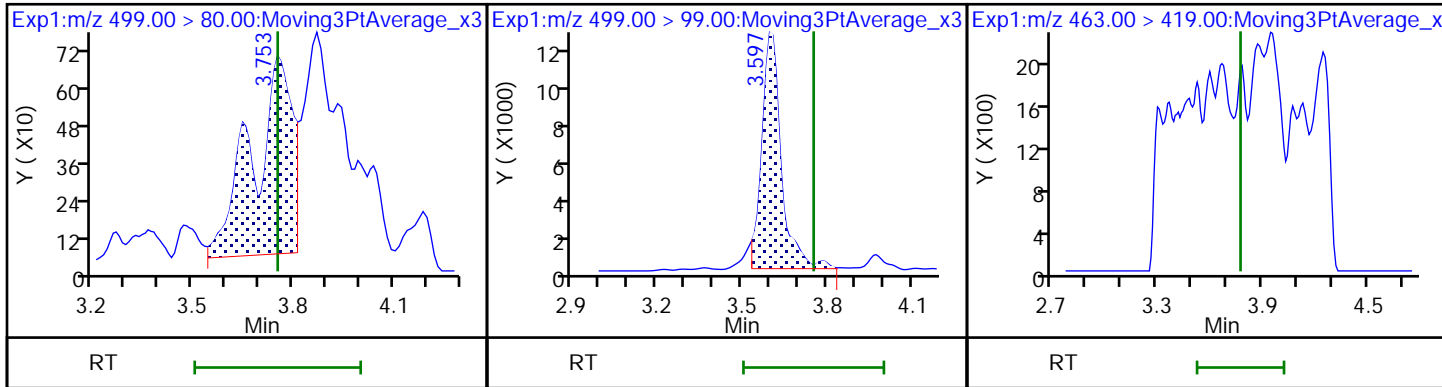
D 18 13C4 PFOS

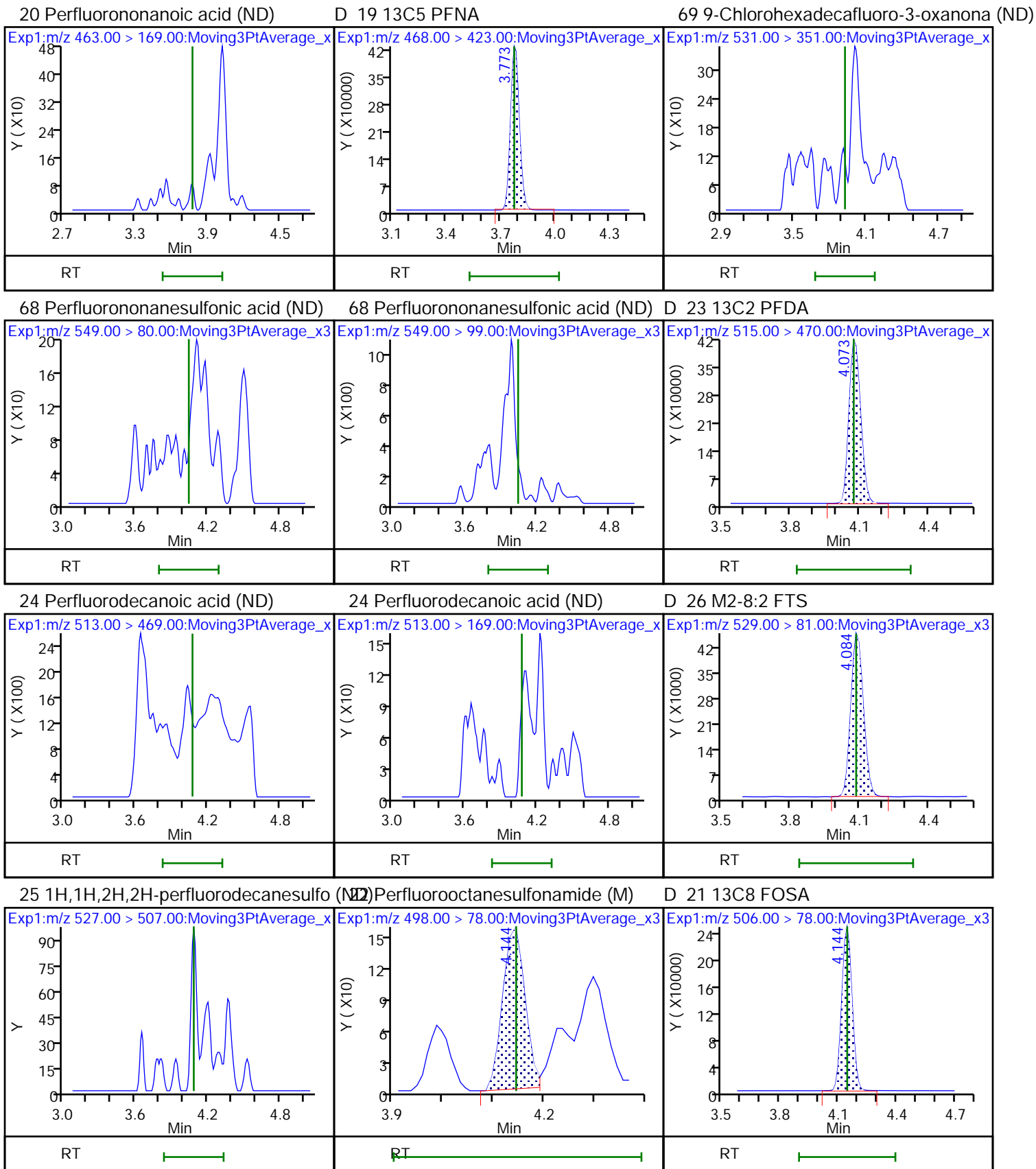


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

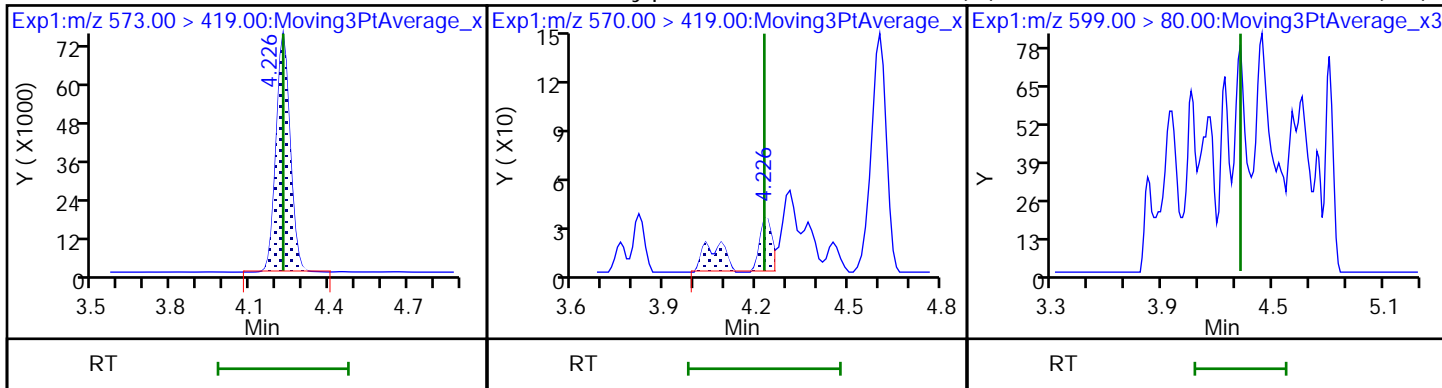
20 Perfluorononanoic acid (ND)





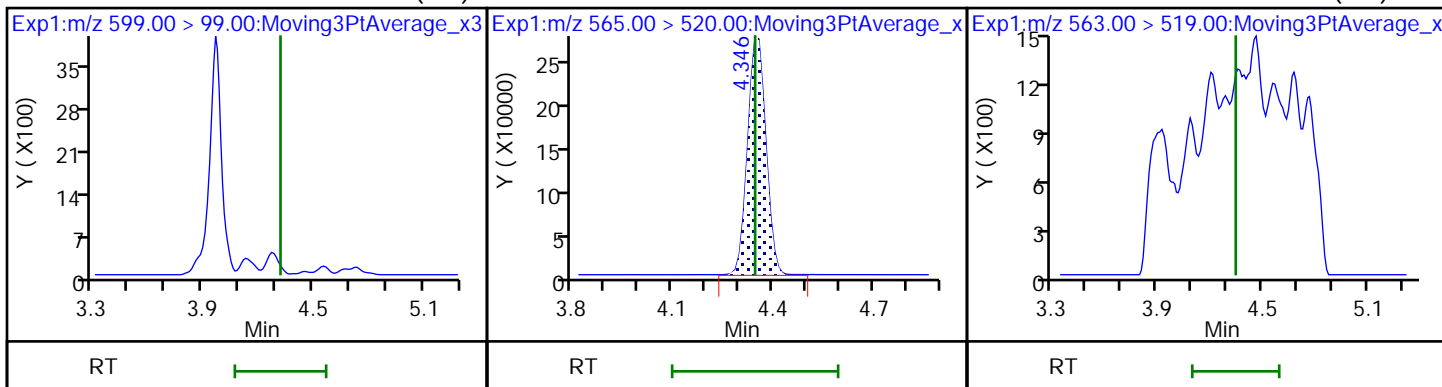
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (ND)



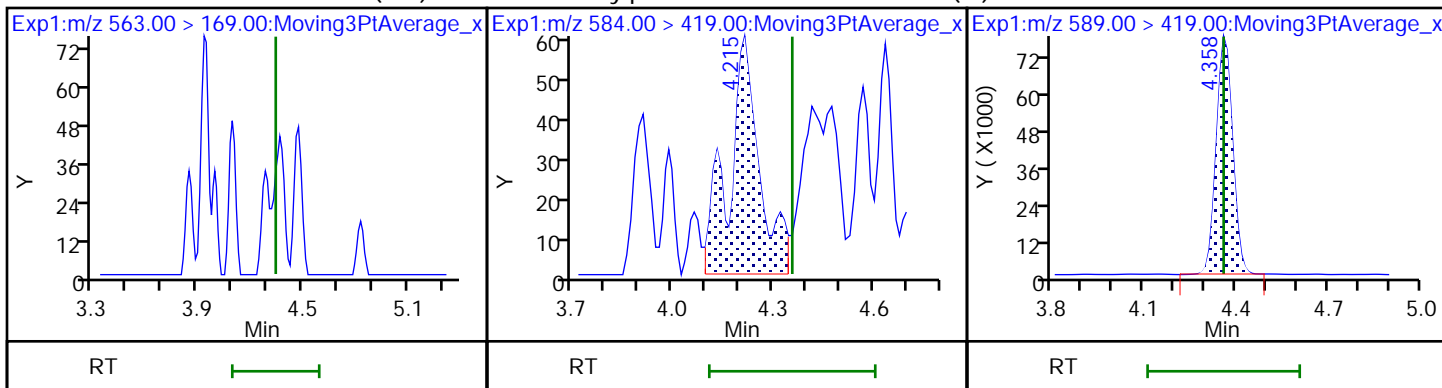
29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (ND)



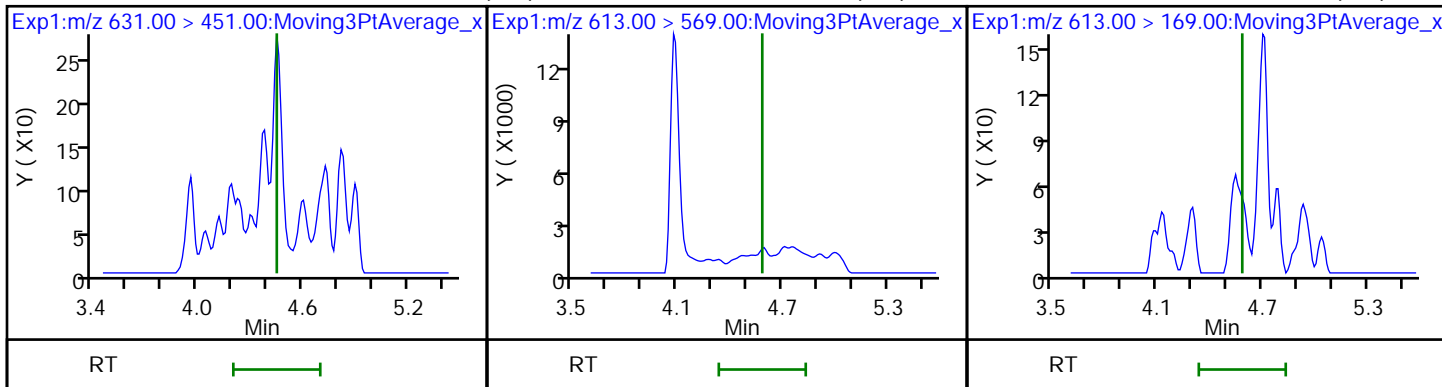
31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



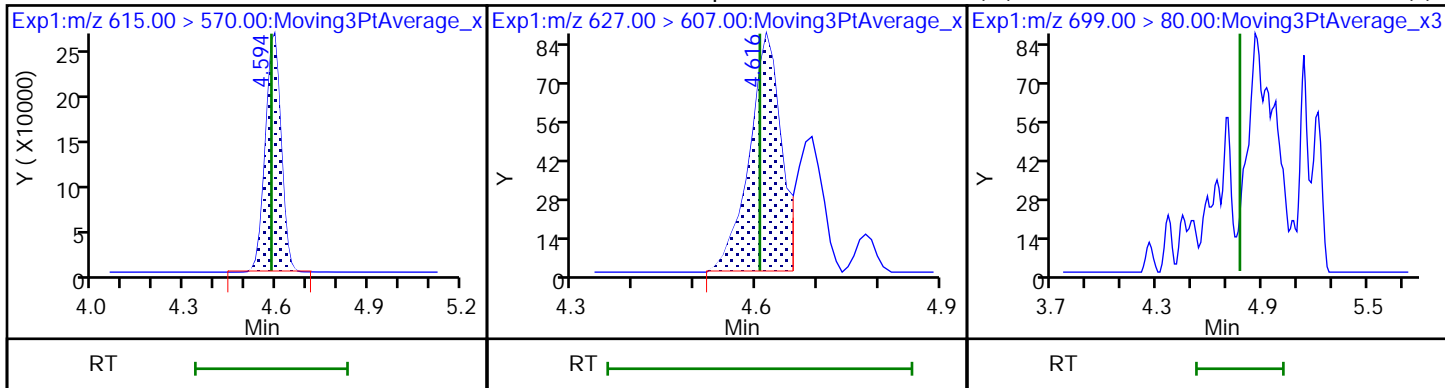
66 11-Chloroeicosafuoro-3-oxaundec (N) 37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)



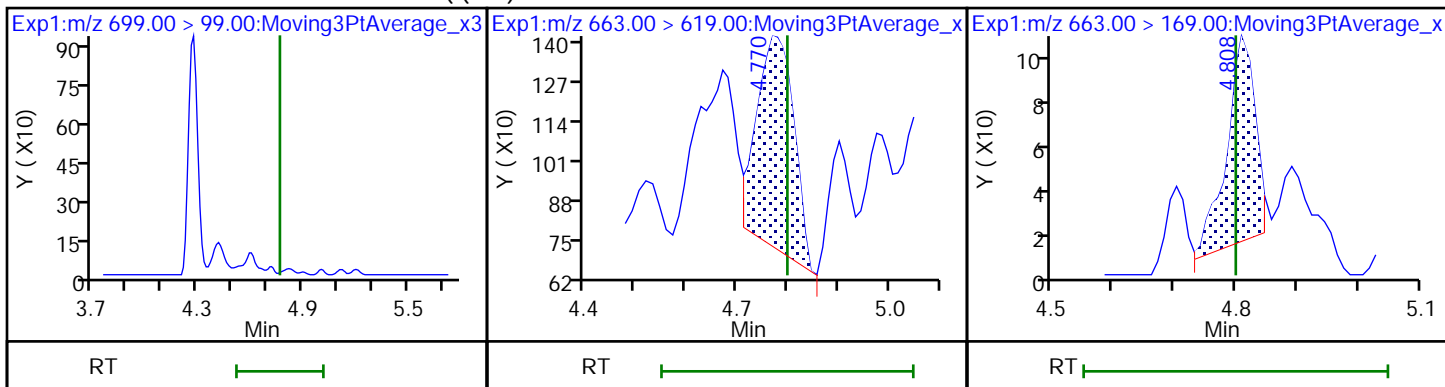
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 1 Perfluorotridecanoic acid

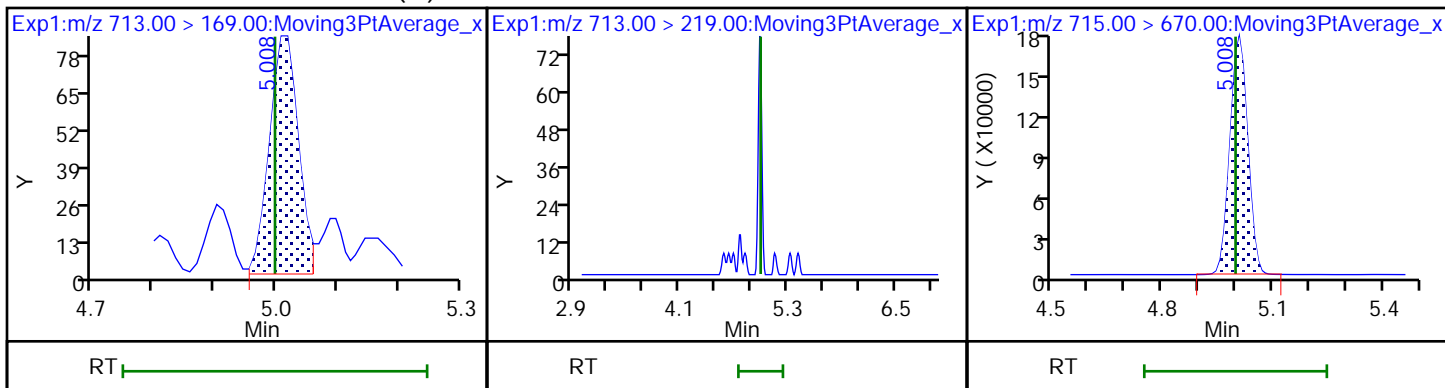
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

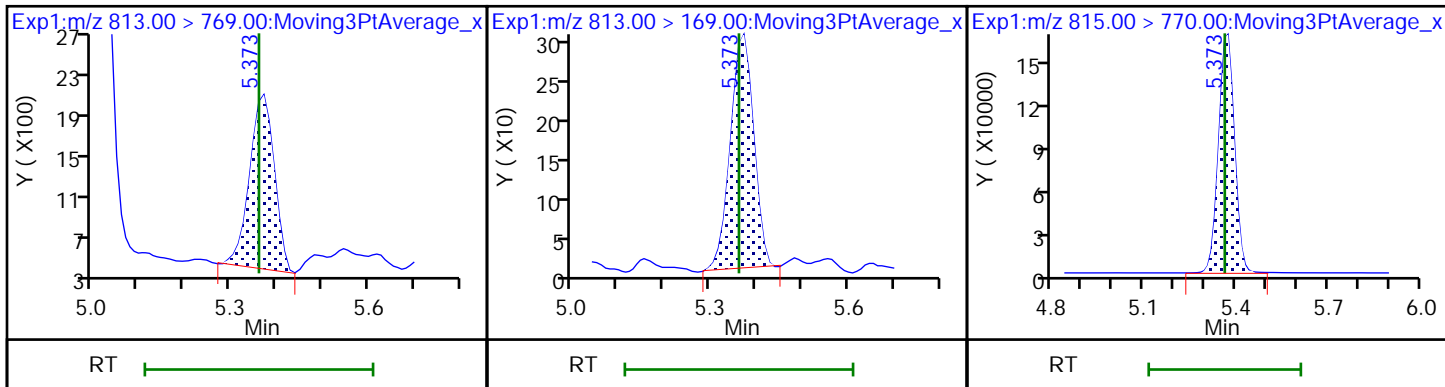
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

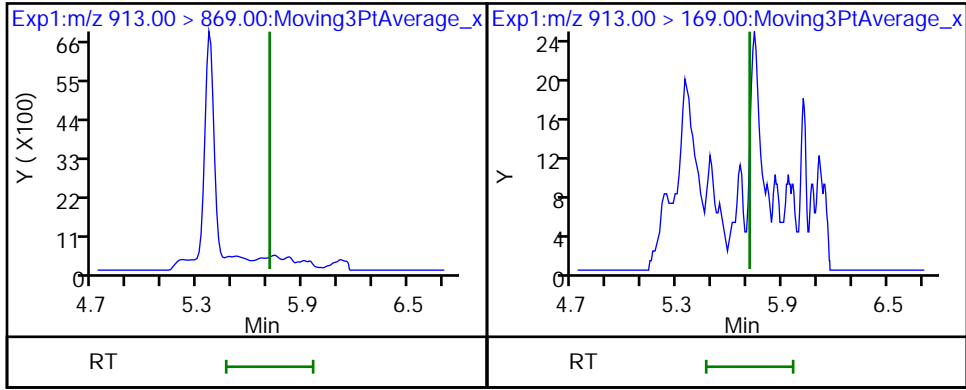
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

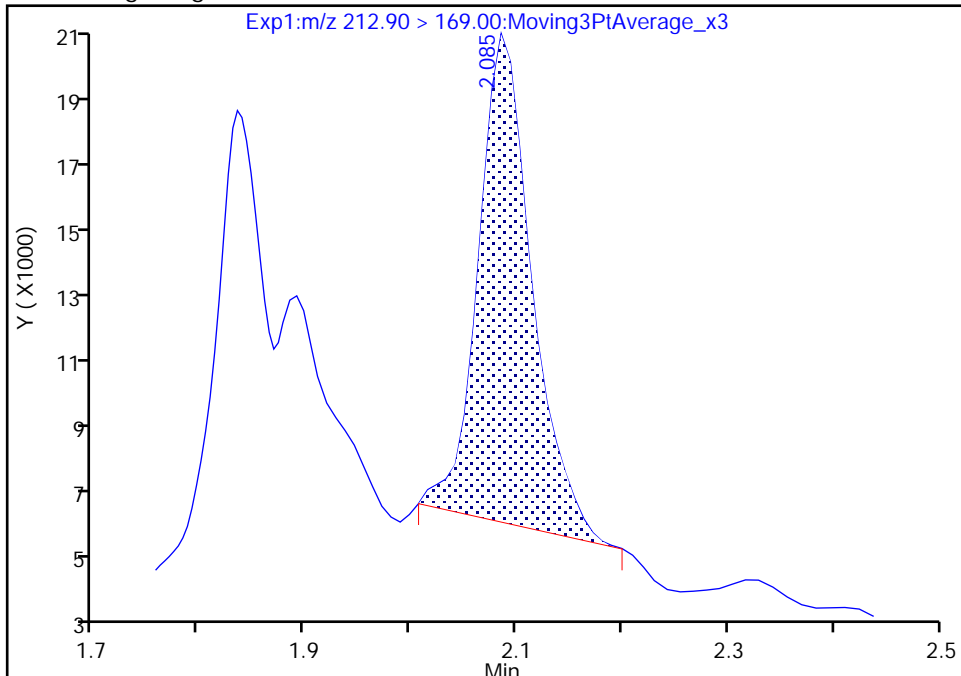
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Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

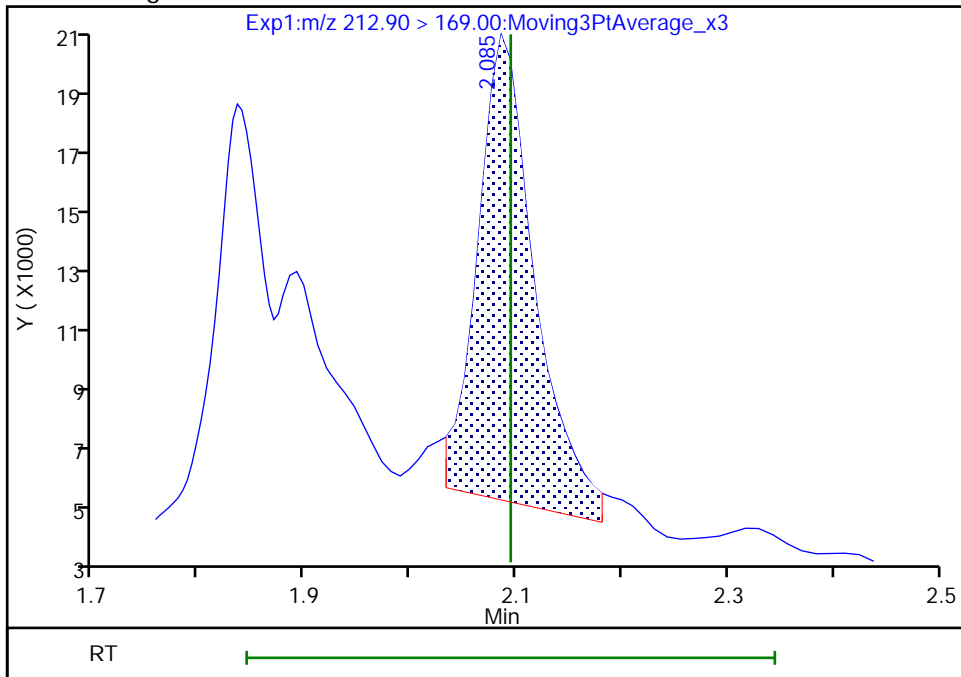
RT: 2.09
Area: 48900
Amount: -0.001896
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 54627
Amount: 0.002965
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:24:39
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

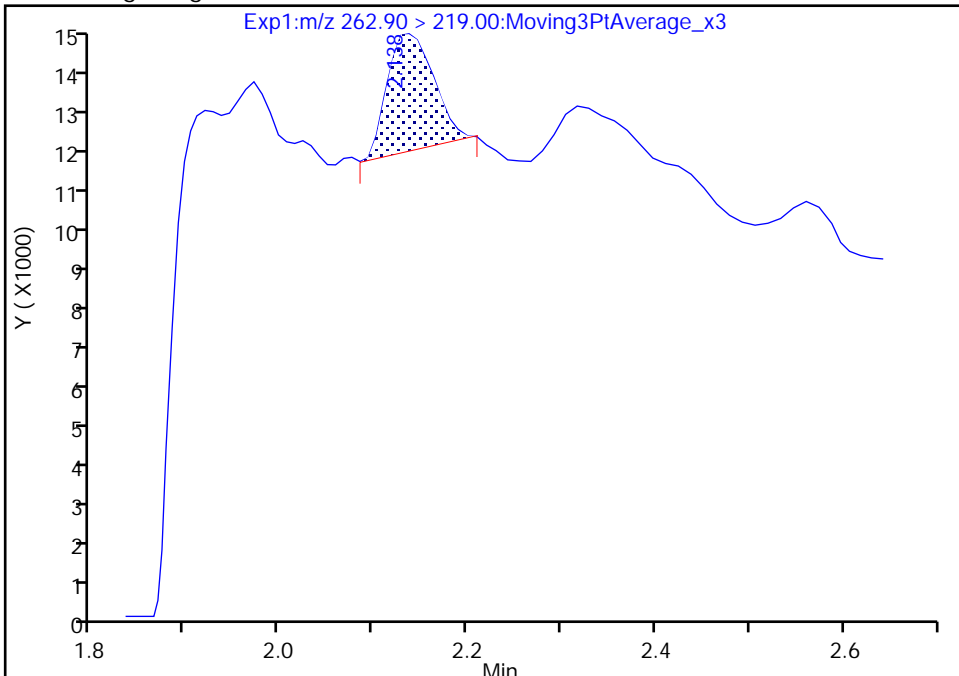
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

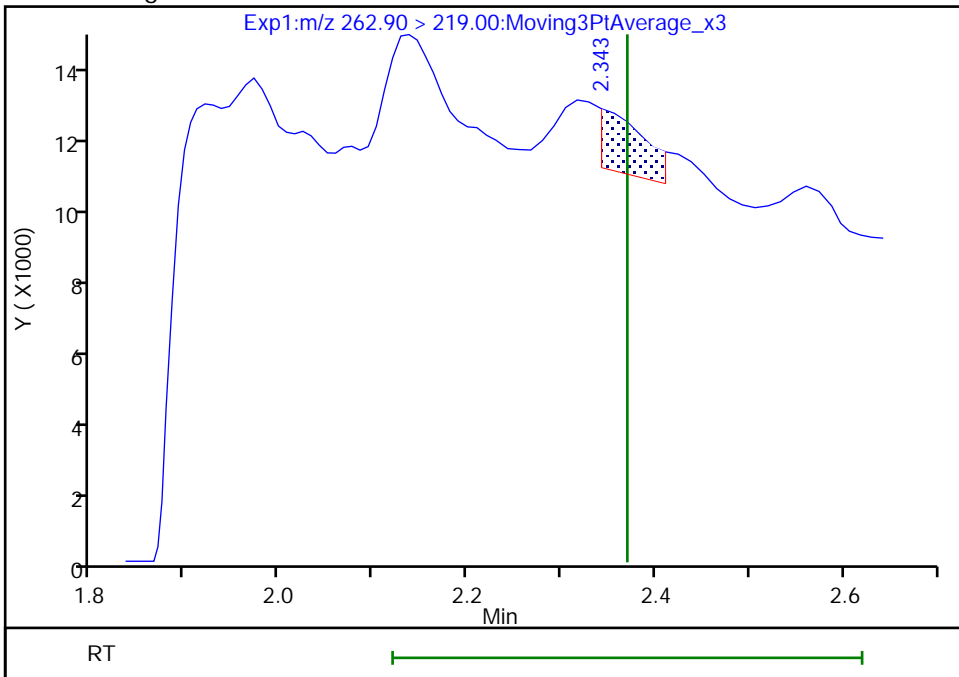
RT: 2.14
Area: 9747
Amount: 0.009203
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 5177
Amount: 0.004888
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:24:56
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

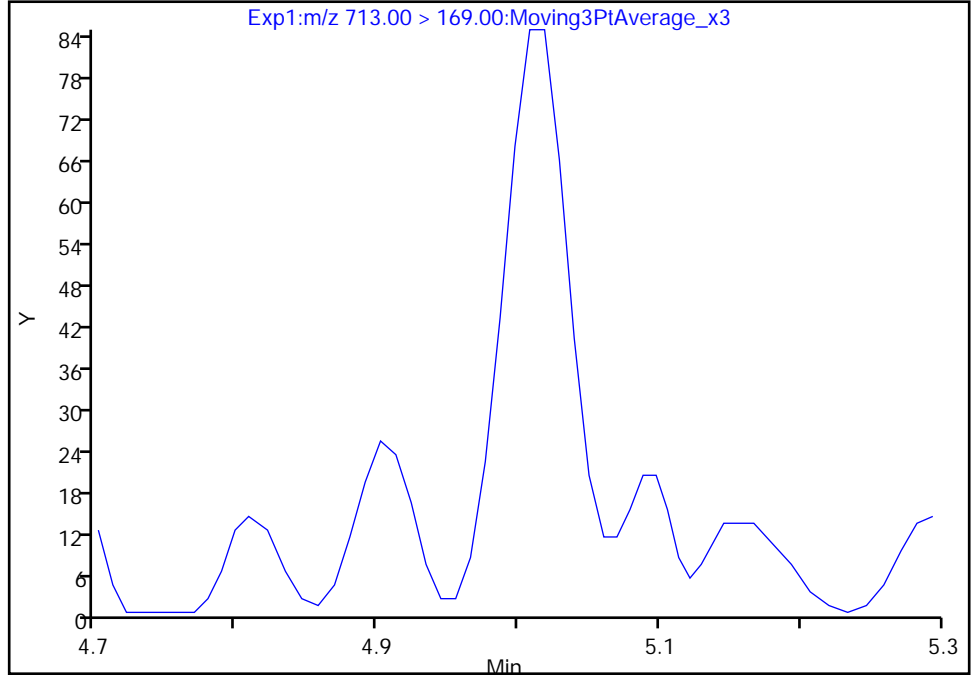
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

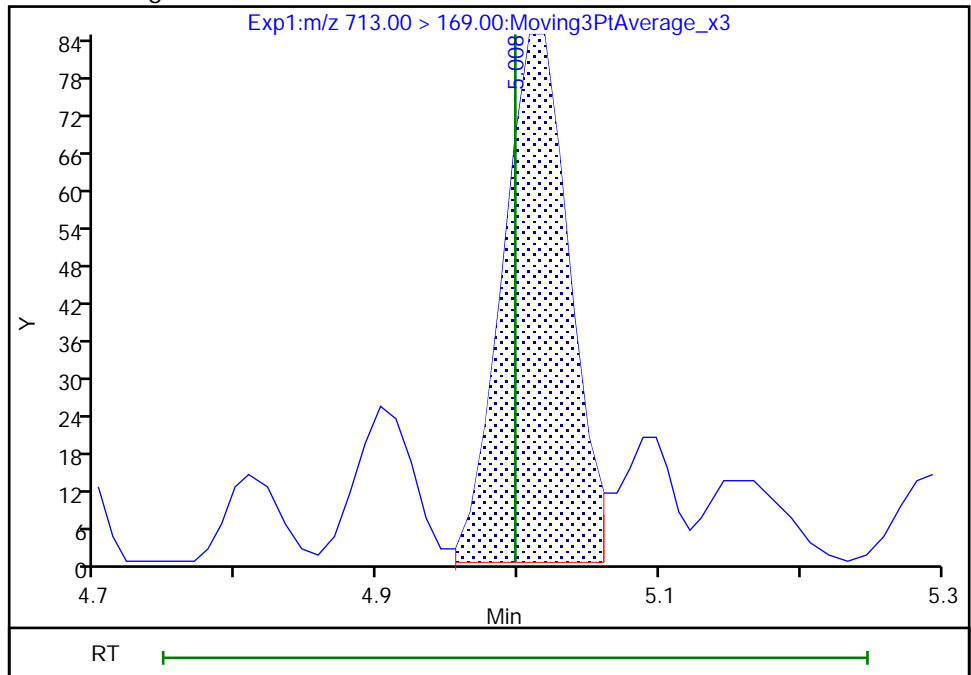
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 279
Amount: 0.004751
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:28:52
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

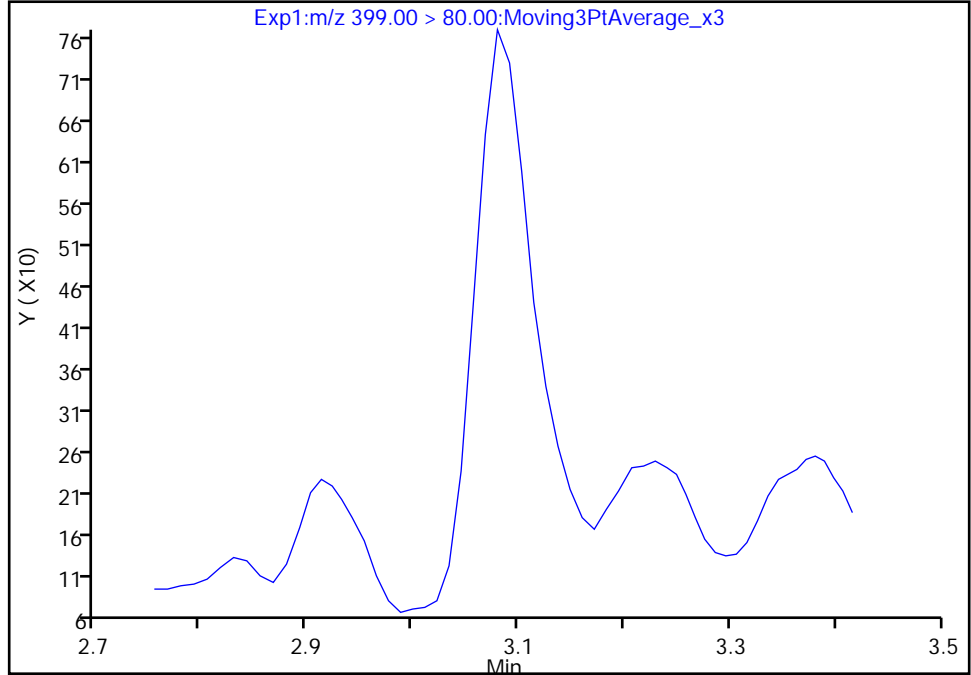
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

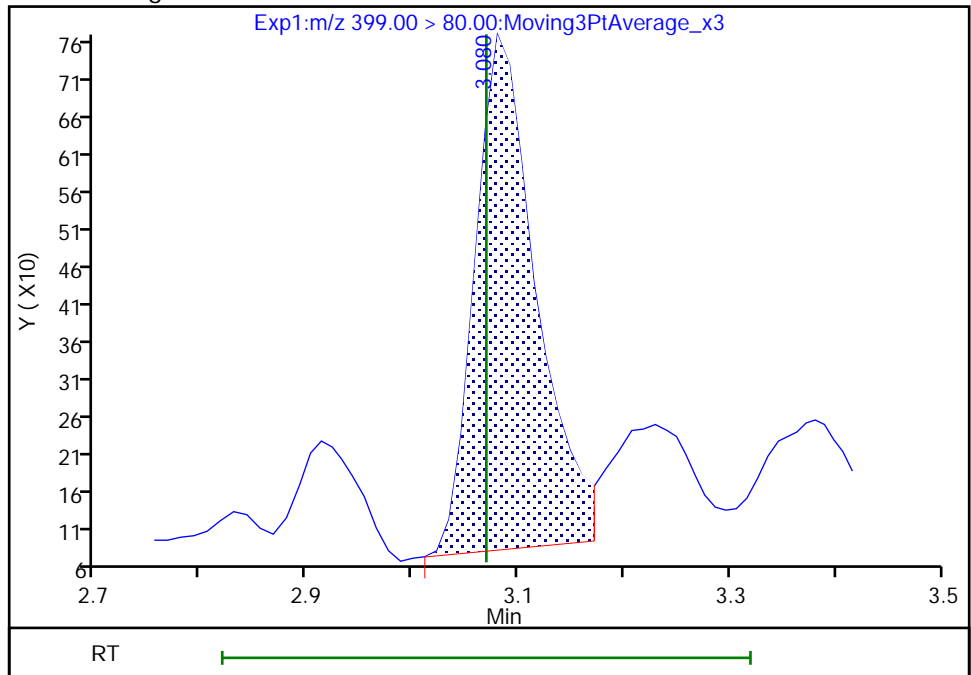
Processing Integration Results

Not Detected
Expected RT: 3.07



Manual Integration Results

RT: 3.08
Area: 2754
Amount: 0.003705
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:25:49
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

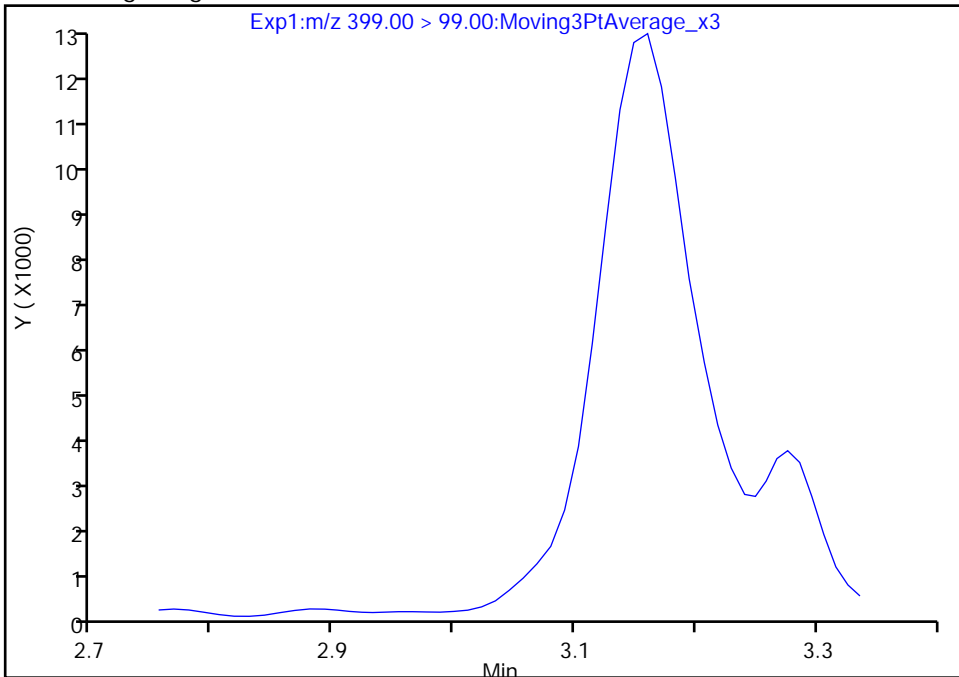
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

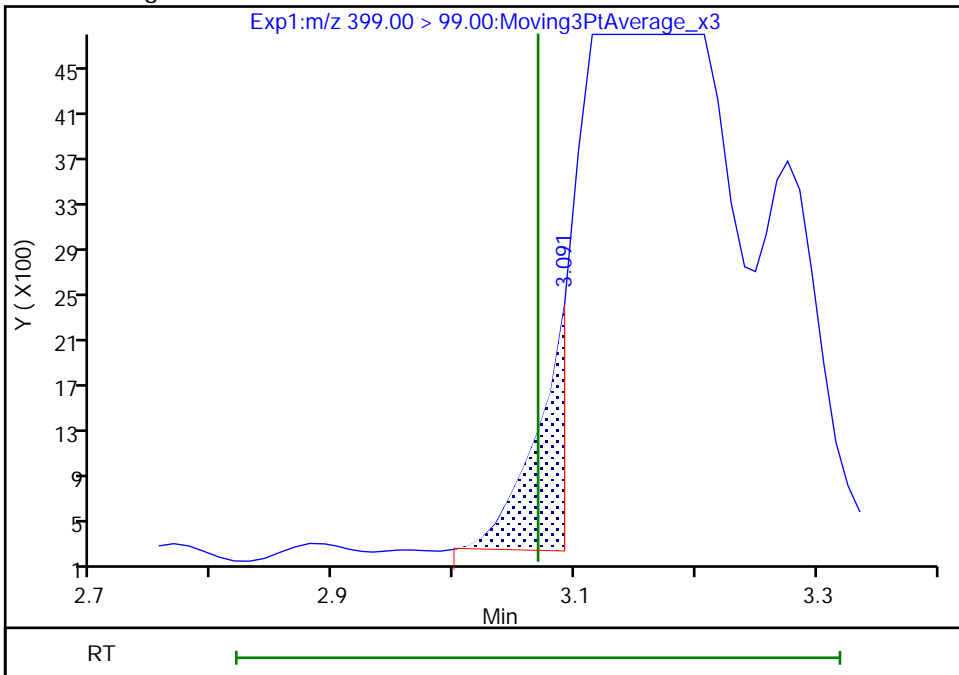
Not Detected
Expected RT: 3.07

Processing Integration Results



RT: 3.09
Area: 3450
Amount: 0.003705
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:25:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

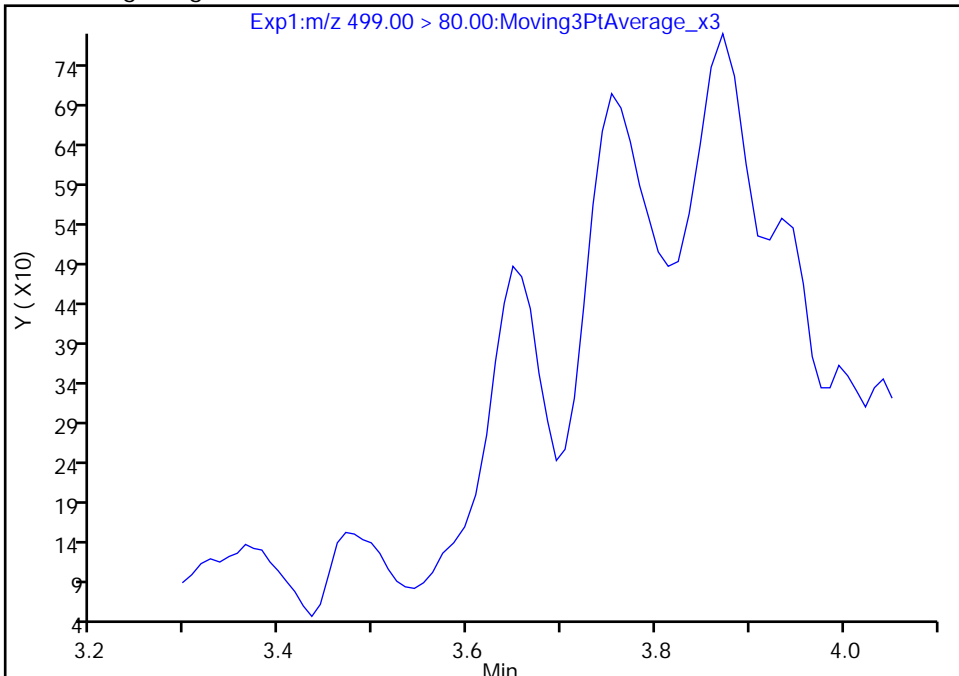
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

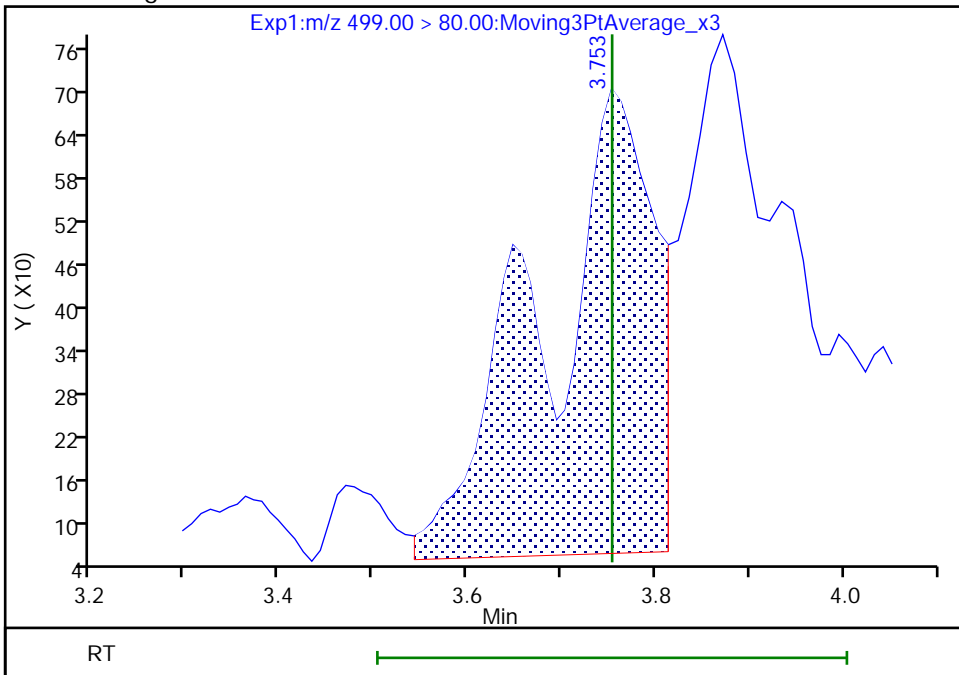
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 5237
Amount: 0.010454
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:27:00
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

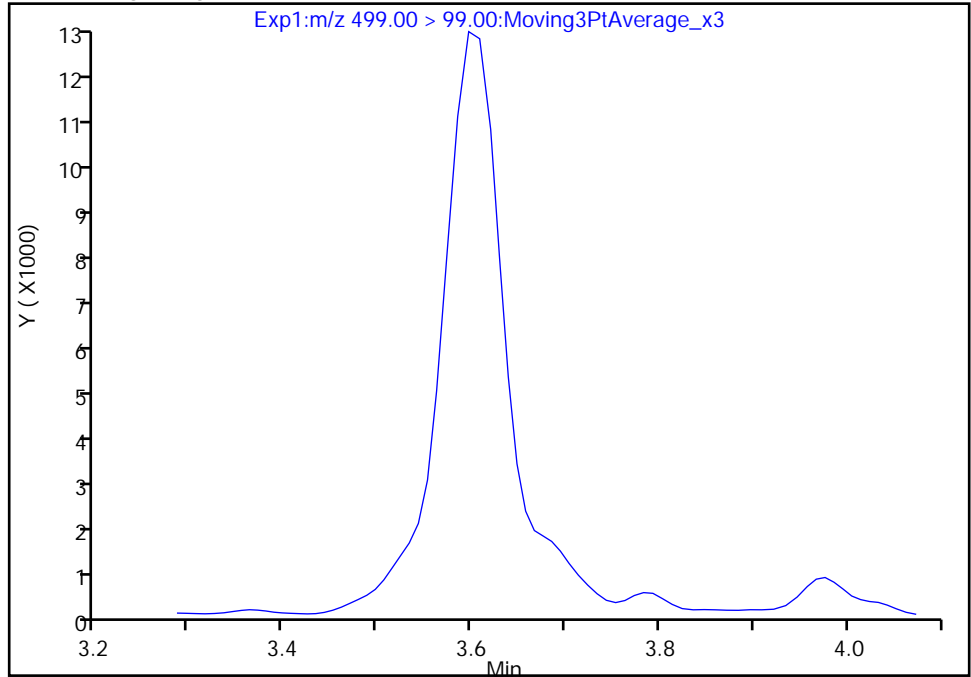
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

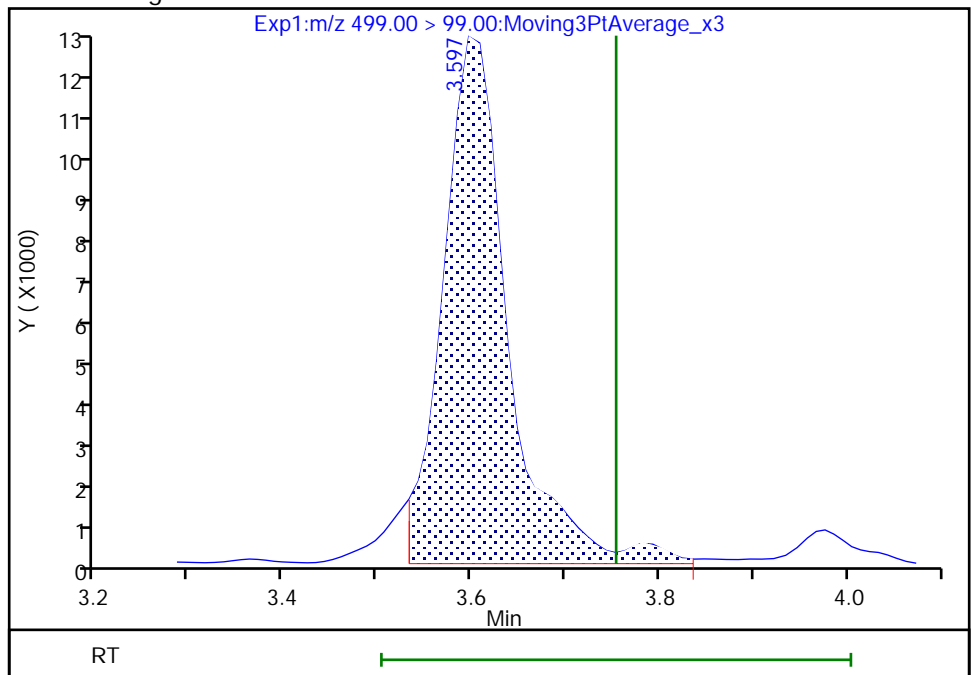
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.60
Area: 61549
Amount: 0.010454
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:27:07

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

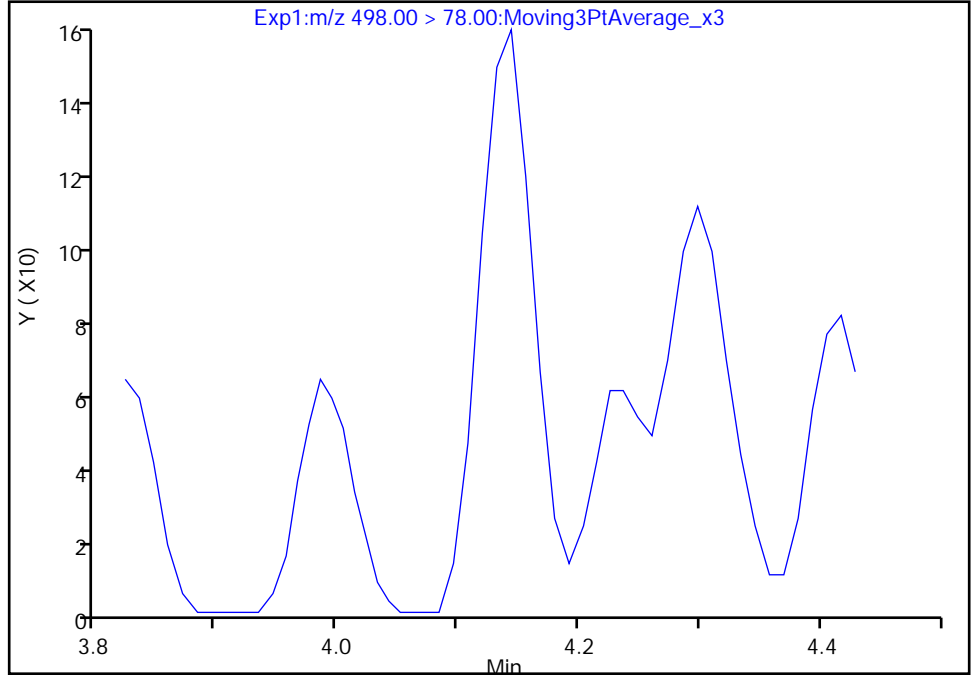
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

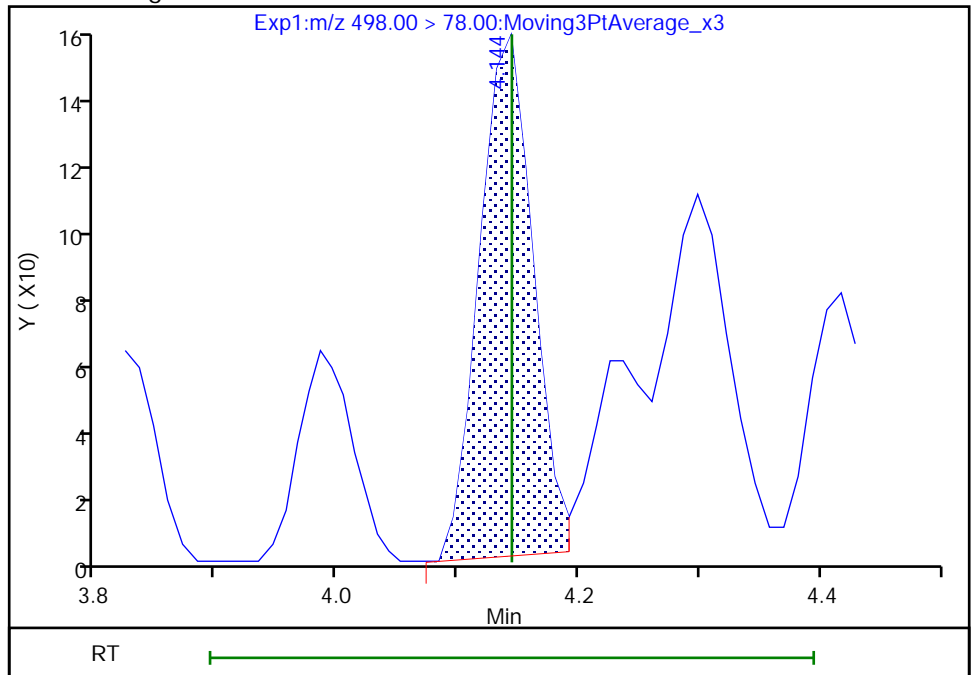
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 470
Amount: 0.000640
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:27:40
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

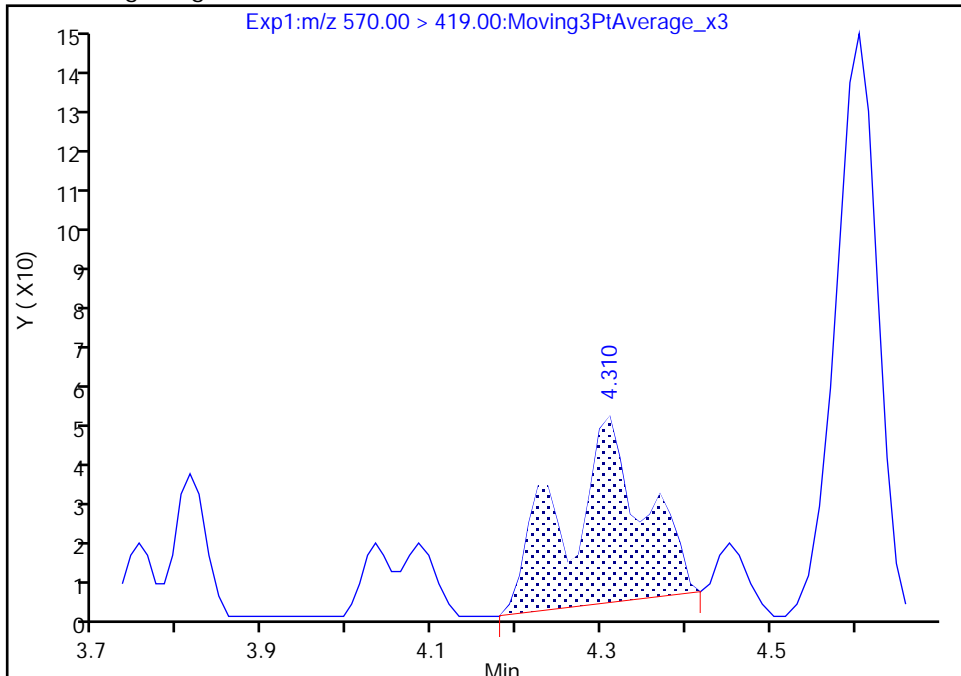
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Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

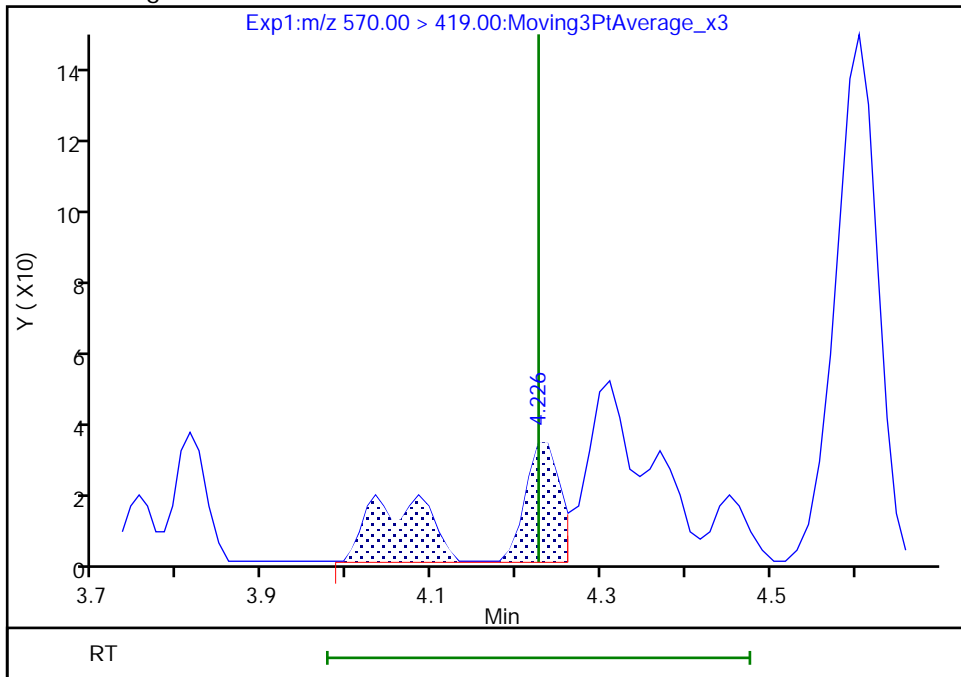
RT: 4.31
Area: 292
Amount: 0.001446
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 176
Amount: 0.000871
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:27:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

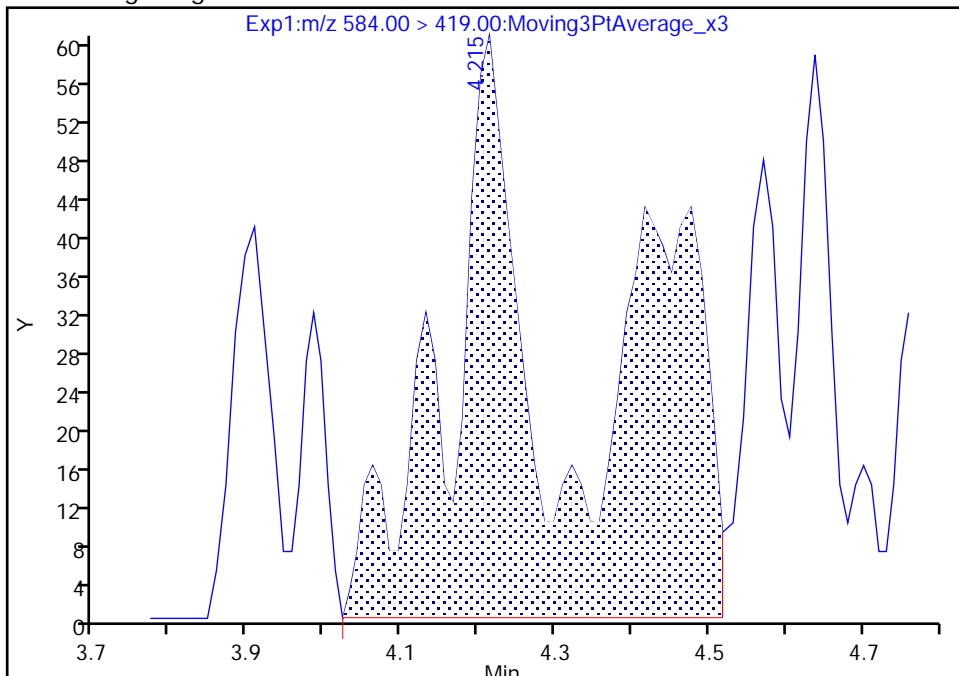
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A15.d
Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

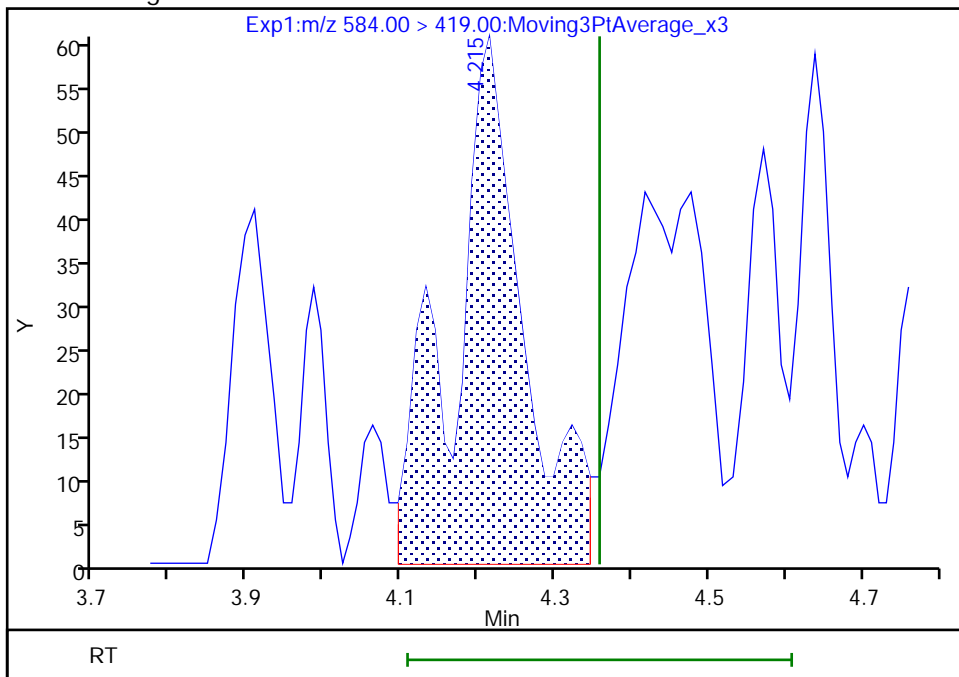
RT: 4.21
Area: 744
Amount: 0.003442
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 387
Amount: 0.001790
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:28:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

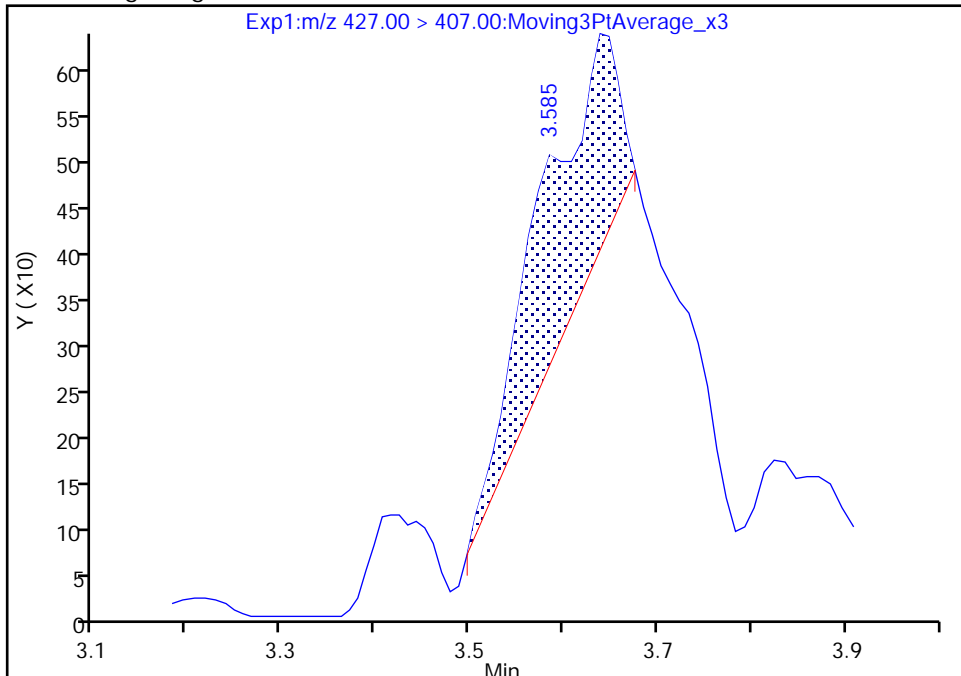
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Injection Date: 26-Jan-2023 21:40:45 Instrument ID: LC812
Lims ID: 460-273176-A-1-A Lab Sample ID: 200-273176-1
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

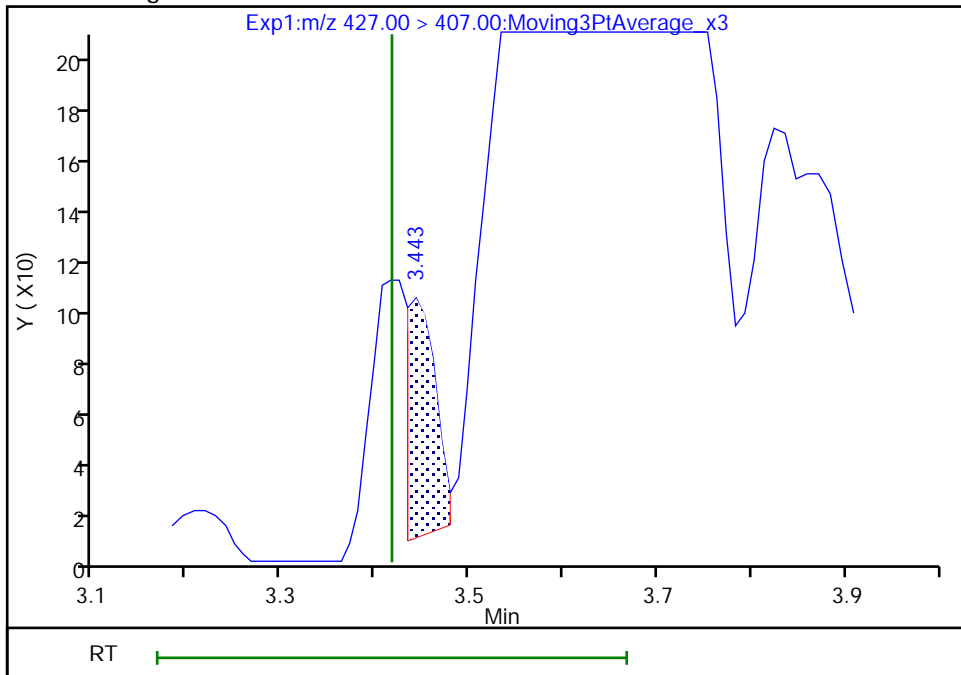
RT: 3.59
Area: 1510
Amount: 0.005473
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 183
Amount: 0.000663
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:26:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-61_(15-15.5)P Lab Sample ID: 460-273176-2
 Matrix: Solid Lab File ID: PA230126A18.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.09(g) Date Analyzed: 01/26/2023 22:05
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 74.9 % Solids: 25.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.95	U	1.95	1.29
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.78	U	0.78	0.22
307-24-4	Perfluorohexanoic acid (PFHxA)	0.78	U	0.78	0.18
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.78	U	0.78	0.15
335-67-1	Perfluorooctanoic acid (PFOA)	0.78	U	0.78	0.23
375-95-1	Perfluorononanoic acid (PFNA)	0.78	U	0.78	0.13
335-76-2	Perfluorodecanoic acid (PFDA)	0.78	U	0.78	0.11
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.78	U	0.78	0.11
307-55-1	Perfluorododecanoic acid (PFDoA)	0.78	U	0.78	0.098
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.78	U	0.78	0.098
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.78	U	0.78	0.10
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.78	U	0.78	0.13
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.78	U	0.78	0.16
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.78	U	0.78	0.090
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.78	U	0.78	0.43
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.78	U	0.78	0.074
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.78	U	0.78	0.13
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.82	U	7.82	0.43
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	7.82	U	7.82	0.32
27619-97-2	6:2 FTS	7.82	U	7.82	0.22
39108-34-4	8:2 FTS	7.82	U	7.82	0.14

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-61_(15-15.5)P Lab Sample ID: 460-273176-2
 Matrix: Solid Lab File ID: PA230126A18.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.09(g) Date Analyzed: 01/26/2023 22:05
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 74.9 % Solids: 25.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	50		50-150
STL01892	13C4 PFHpA	67		50-150
STL00990	13C4 PFOA	60		50-150
STL00991	13C4 PFOS	58		50-150
STL00995	13C5 PFNA	66		50-150
STL00992	13C4 PFBA	67		50-150
STL00993	13C2 PFHxA	61		50-150
STL00996	13C2 PFDA	61		50-150
STL00997	13C2 PFUnA	68		50-150
STL00998	13C2 PFDoA	61		50-150
STL01056	13C8 FOSA	47	*	50-150
STL01893	13C5 PFPeA	60		50-150
STL02116	13C2 PFTeDA	56		50-150
STL02118	d3-NMeFOSAA	69		50-150
STL02117	d5-NEtFOSAA	76		50-150
STL02279	M2-6:2 FTS	73		50-150
STL02280	M2-8:2 FTS	90		50-150
STL02337	13C3 PFBS	56		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
 Lims ID: 460-273176-A-2-A
 Client ID: BCS-09-61_(15-15.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 22:05:13 ALS Bottle#: 15 Worklist Smp#: 18
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-2-A
 Misc. Info.: 200-0054135-018 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 17:48:03

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.604	1221165	0.8322	66.6	6387	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.017	1.000	27980	-0.0132		2.1		M
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.694	885043	0.7461	59.7	2021	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.370	2.370	0.0	0.994	21379	0.0264		0.2		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	847976	0.6512	56.0	46081	
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.397	2.384	0.013	1.000	2392	0.003061	Target=2.10	0.5		RM
298.90 > 99.00	2.424	2.384	0.040	1.011	640		3.74(1.05-3.15)	0.3		M
D 7 13C2 PFHxA	315.00 > 270.00	2.719	2.694	0.024	0.791	946900	0.7682	61.5	5723	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.731	2.706	0.025	1.005	12445	0.0156	Target=13.16	0.9		M
313.00 > 119.00	2.731	2.706	0.025	1.005	1434		8.68(6.58-19.74)	1.4		M
D 11 18O2 PFHxS	403.00 > 84.00	3.081	3.069	0.012	0.897	564168	0.5954	50.4	2887	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.081	3.069	0.012	1.000	3309	0.006319	Target=3.18	0.8		M
399.00 > 99.00	3.104	3.069	0.035	1.007	1460		2.27(1.59-4.77)	0.5		M
D 9 13C4 PFHpA	367.00 > 322.00	3.081	3.069	0.012	0.897	1027695	0.8328	66.6	10069	
D 12 M2-6:2 FTS	429.00 > 81.00	3.427	3.417	0.010	0.997	129063	0.8641	72.8	82.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.427	3.417	0.010	1.000	733	0.002945		1.3		M
16 Perfluoroheptanesulfonic acid										R
449.00 > 80.00	3.427	3.417	0.010	0.913	616	0.001274	Target=4.59	0.2		R
449.00 > 99.00	3.436	3.417	0.019	0.916	1143		0.54(2.30-6.89)	1.6		
D 14 13C4 PFOA										
417.00 > 372.00	3.436	3.426	0.010	1.000	973809	0.7448		59.6	5545	
* 62 13C2 PFOA										
415.00 > 370.00	3.436	3.426	0.010		1595405	1.25			5854	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.092	397193	0.6894		57.7	195	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.753	3.754	-0.001	1.000	12718	0.0315	Target=4.23	2.9		RM
499.00 > 99.00	3.685	3.754	-0.069	0.982	35346		0.36(2.11-6.34)	25.6		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.098	1050159	0.8245		66.0	4301	
D 23 13C2 PFDA										
515.00 > 470.00	4.074	4.074	0.0	1.185	1000712	0.7659		61.3	4172	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.189	201752	1.08		90.0	108	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.084	4.085	-0.001	1.000	912	0.002984		14.2		M
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.206	630450	0.5937		47.5	4541	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.215	4.226	-0.011	1.227	219970	0.8563		68.5	775	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.237	4.226	0.011	1.005	1297	0.008174		8.7		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.265	964443	0.8552		68.4	5163	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.370	4.358	0.012	1.003	1719	0.009886		13.2		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.268	233953	0.9479		75.8	483	
D 36 13C2 PFDoA										
615.00 > 570.00	4.583	4.584	-0.001	1.334	861560	0.7619		61.0	5767	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.454	677866	0.6970		55.8	3483	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d

Injection Date: 26-Jan-2023 22:05:13

Instrument ID: LC812

Lims ID: 460-273176-A-2-A

Lab Sample ID: 200-273176-2

Client ID: BCS-09-61_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 15

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

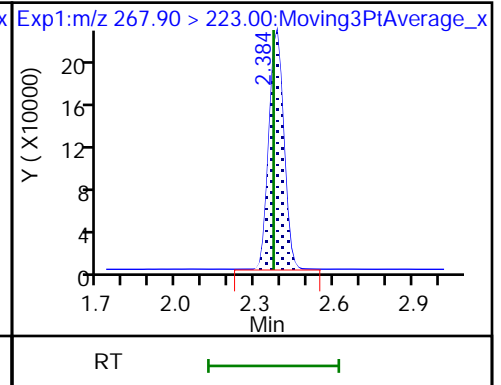
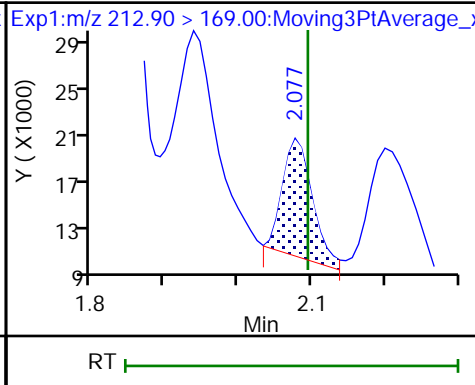
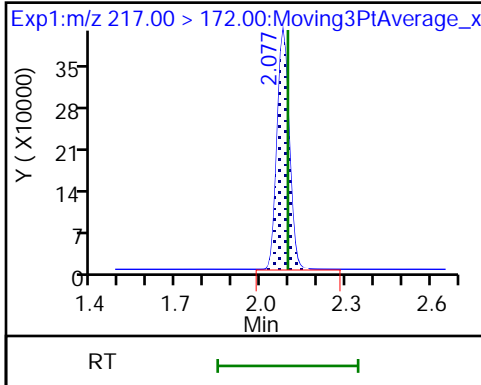
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

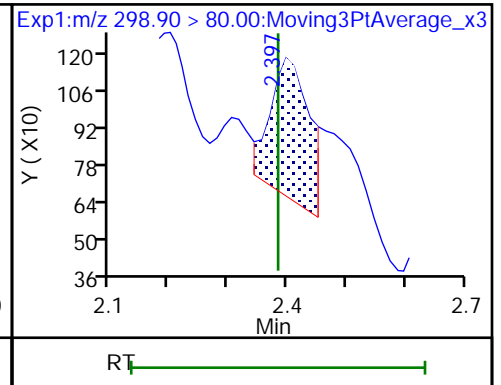
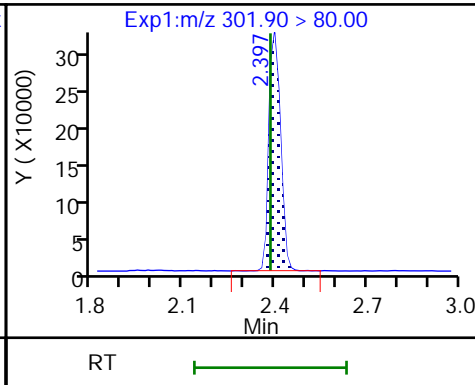
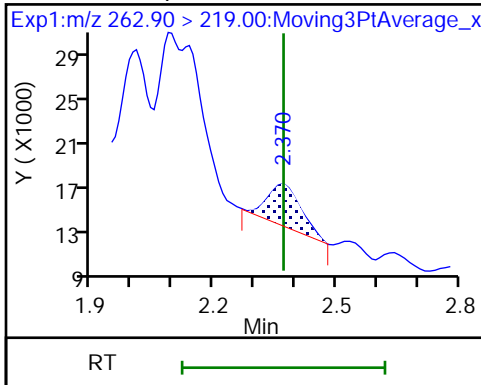
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

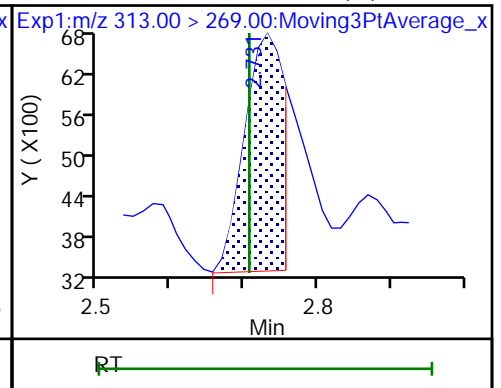
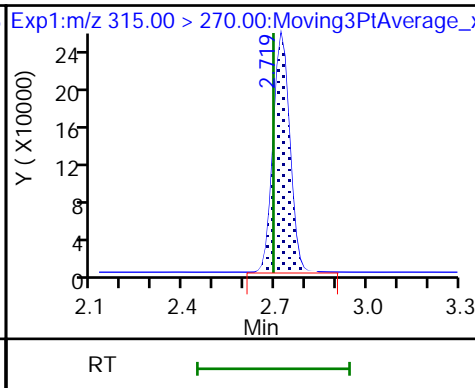
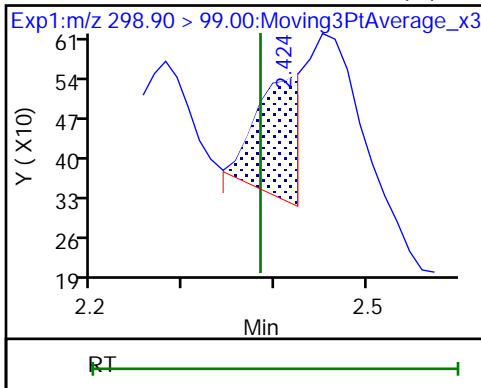
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

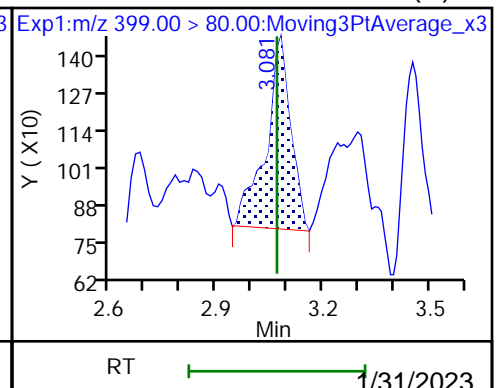
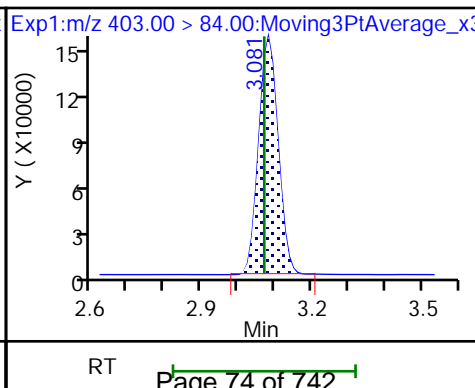
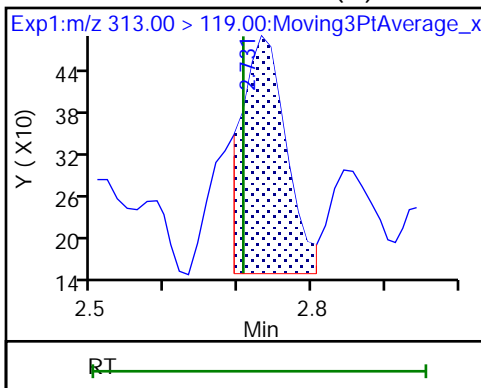
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

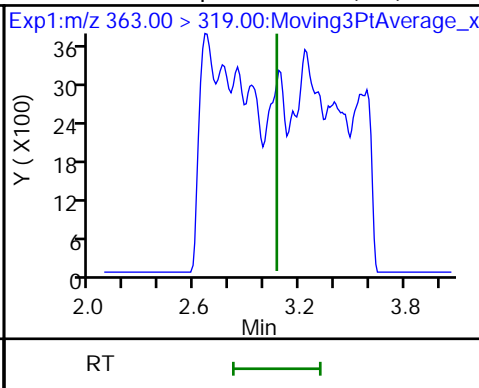
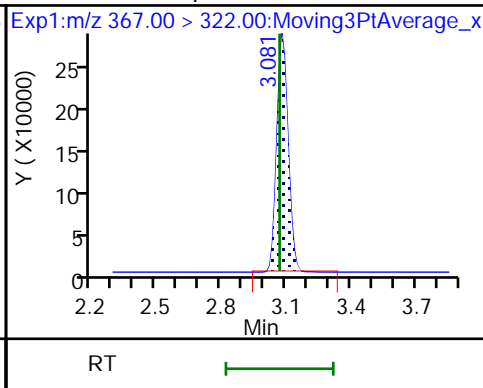
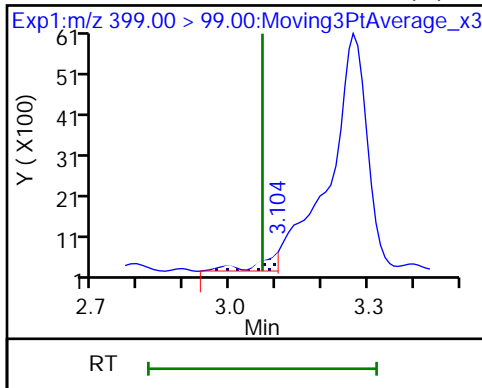
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

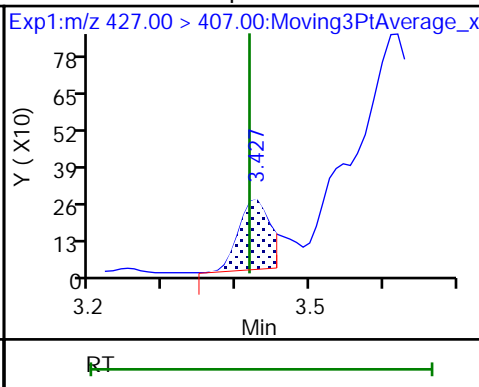
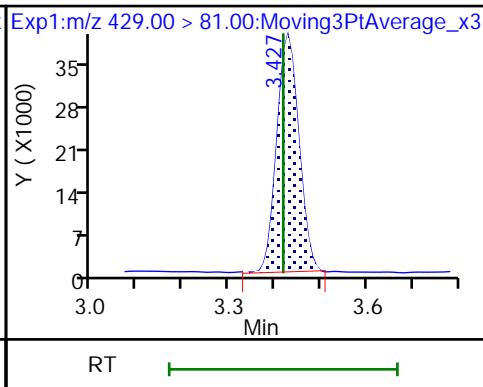
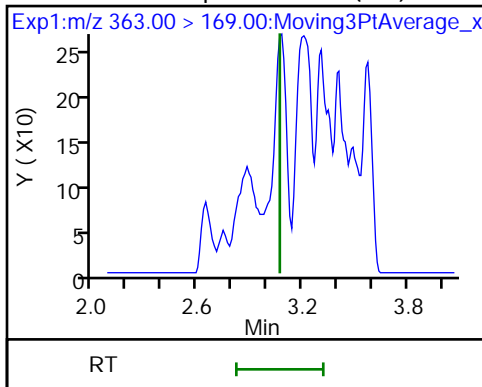
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

D 12 M2-6:2 FTS

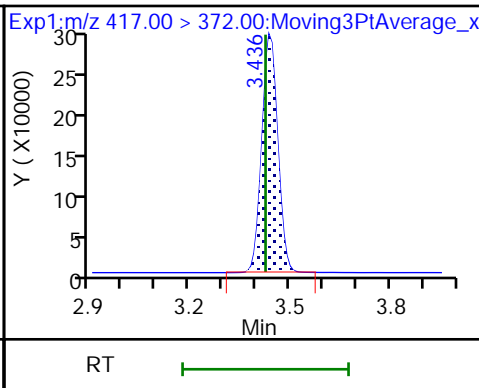
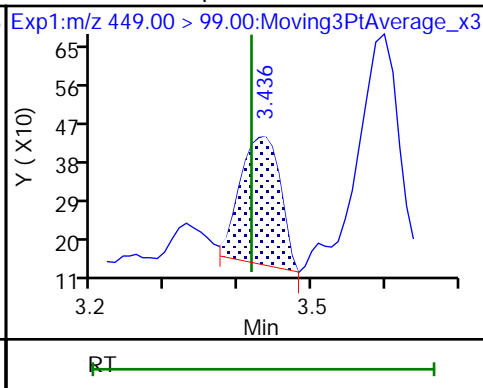
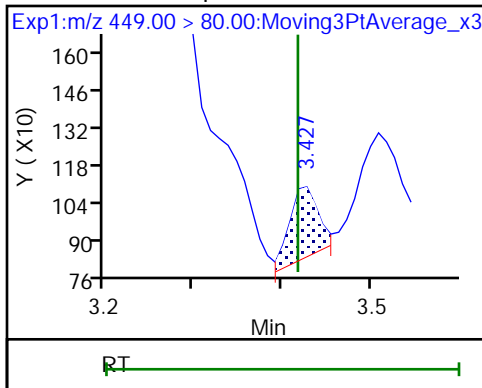
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

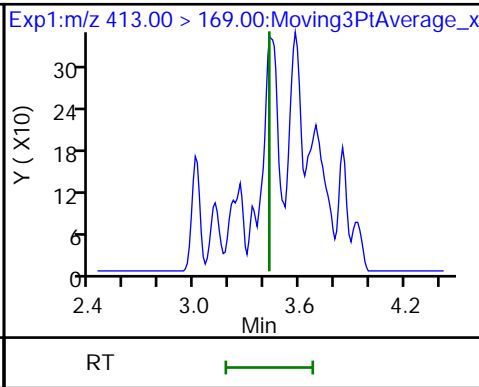
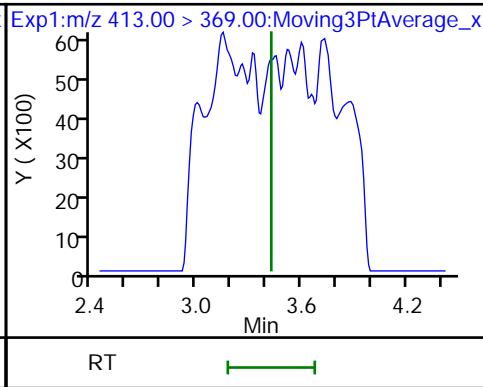
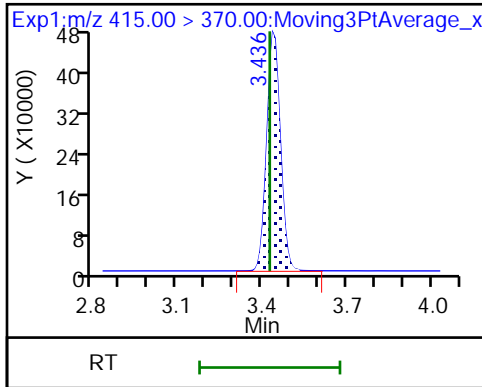
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (ND)

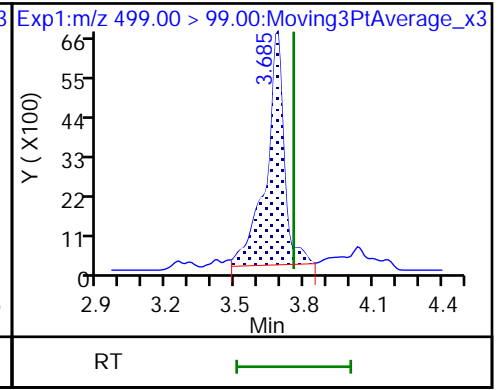
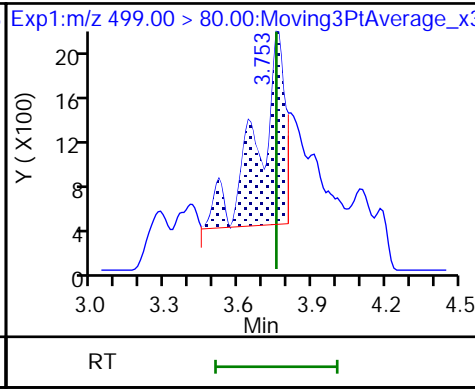
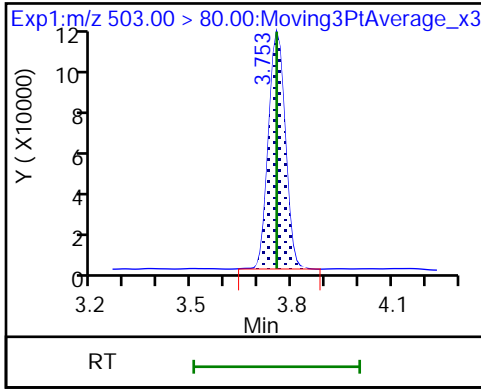
15 Perfluorooctanoic acid (ND)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

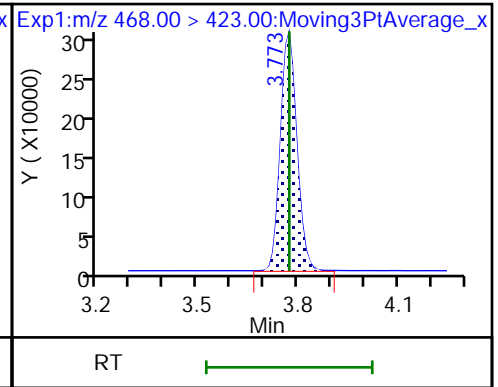
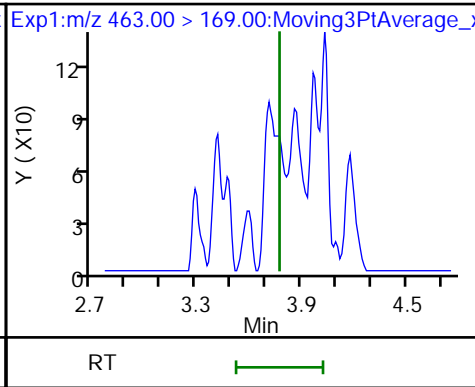
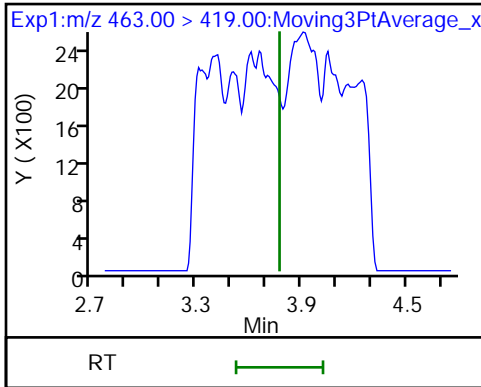
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

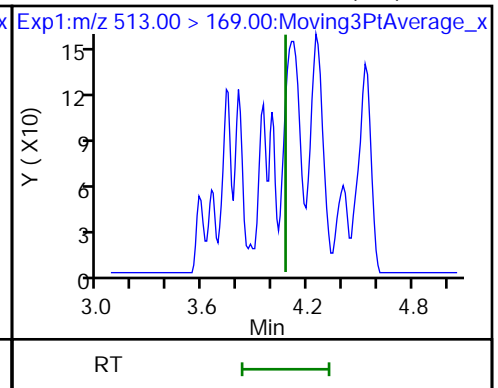
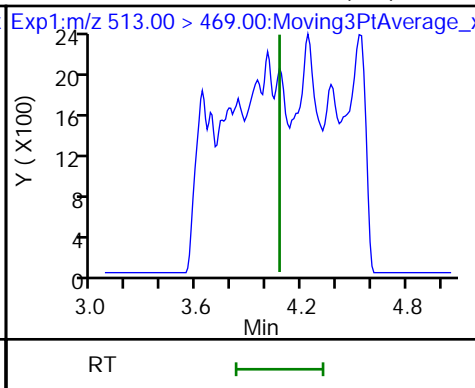
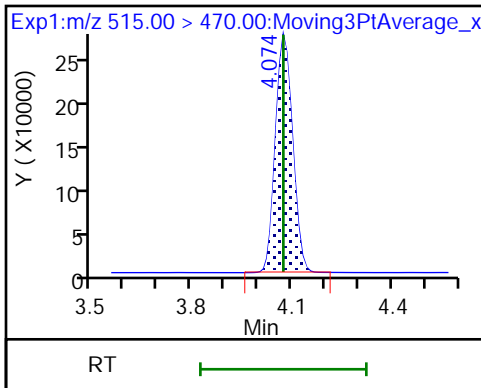
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

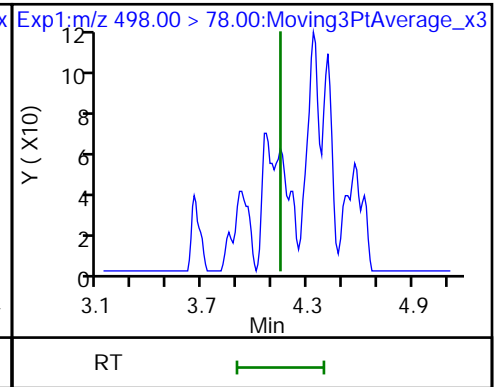
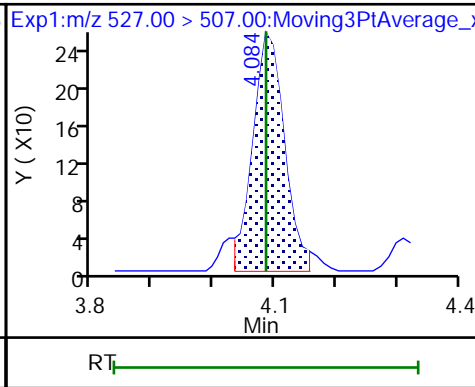
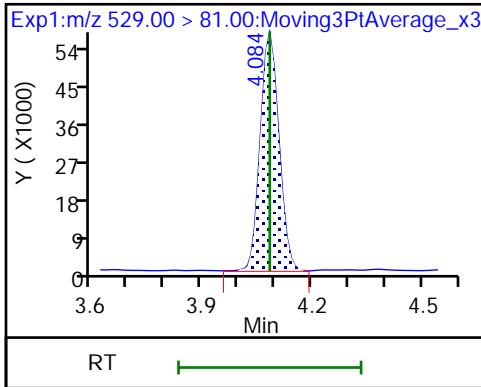
24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (ND)

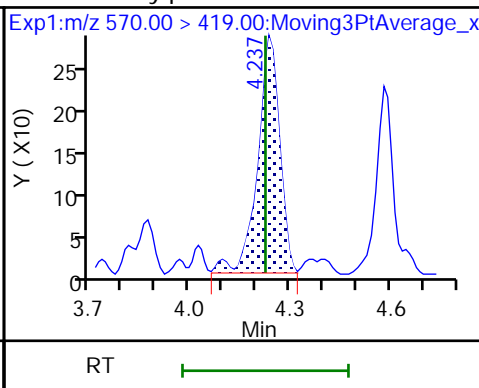
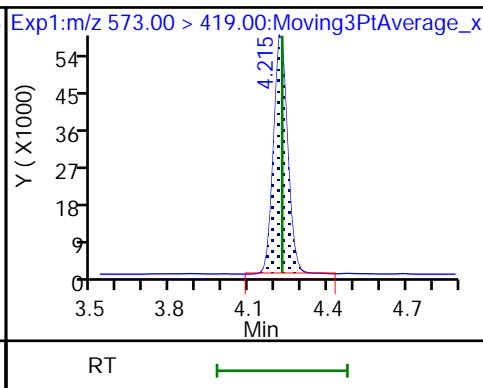
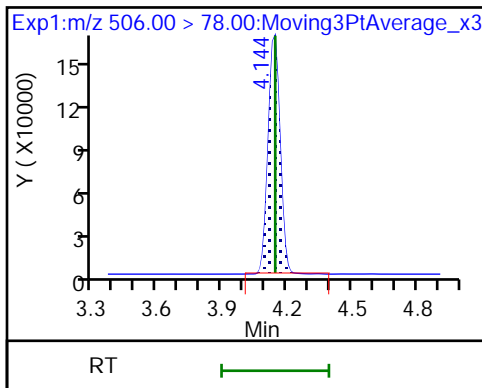
22 Perfluorooctanesulfonamide (ND)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

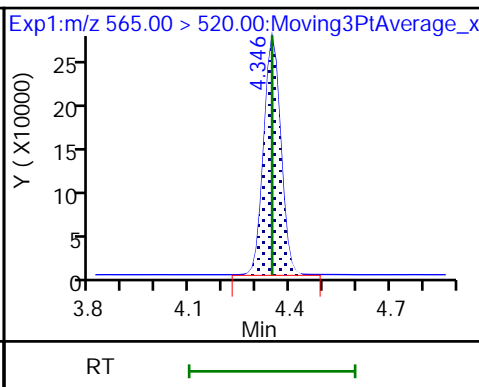
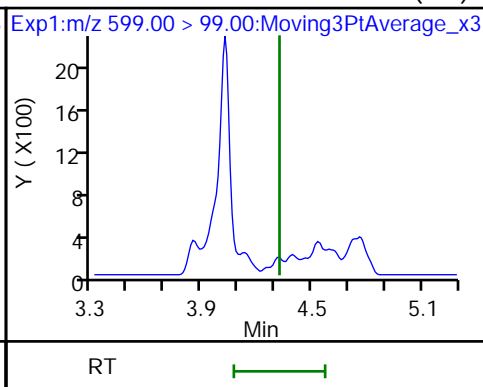
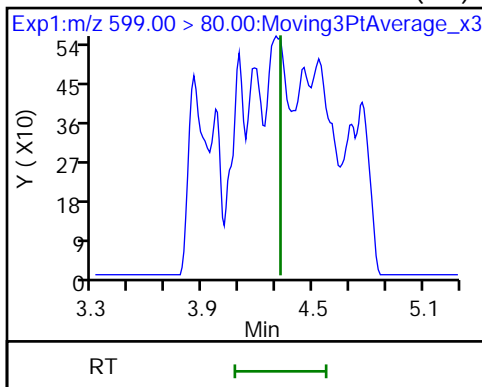
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

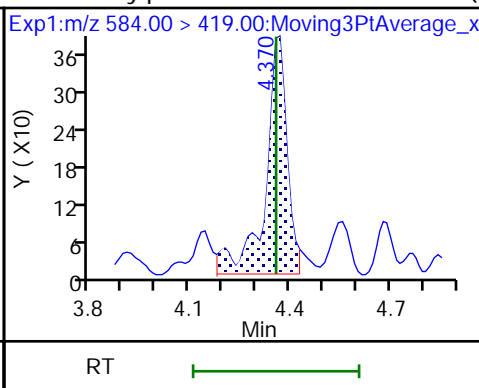
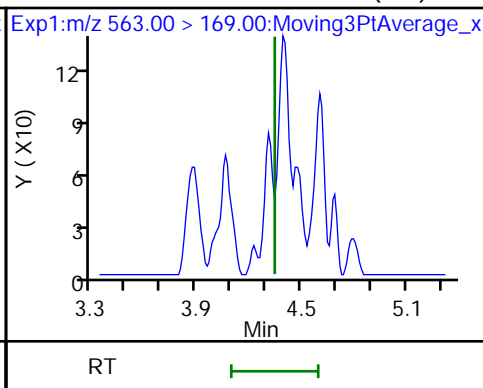
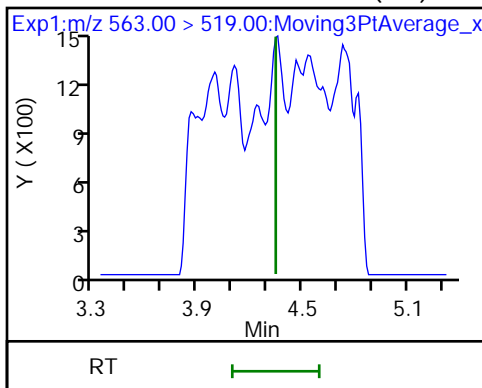
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

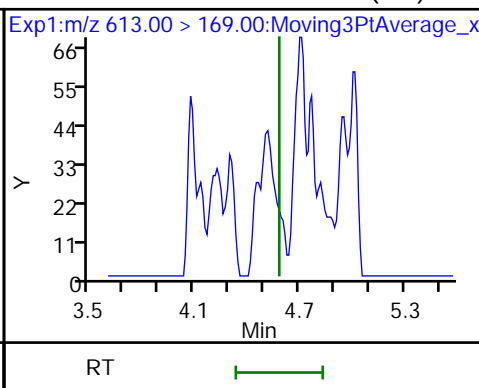
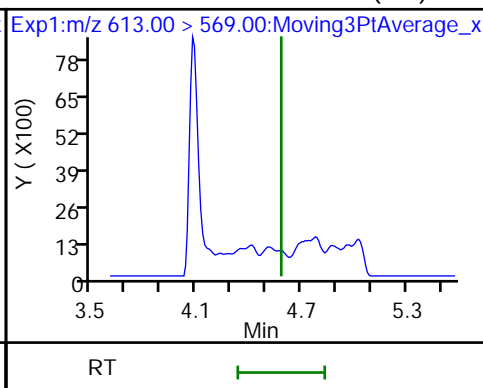
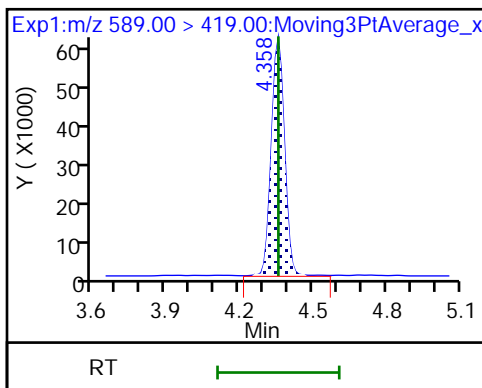
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

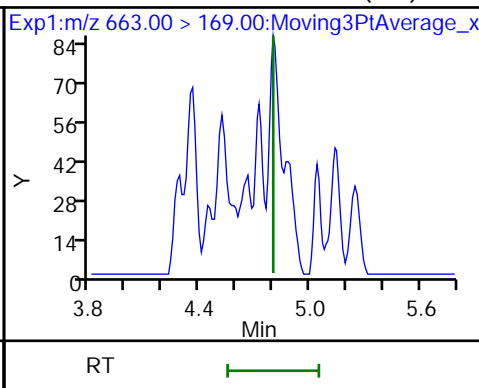
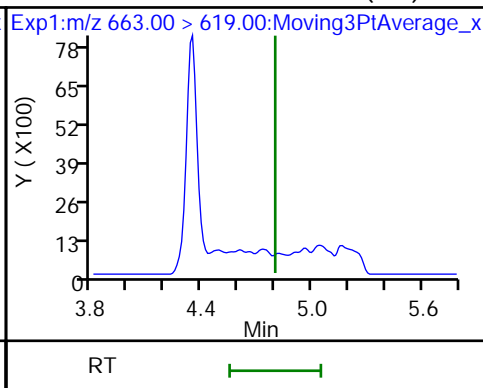
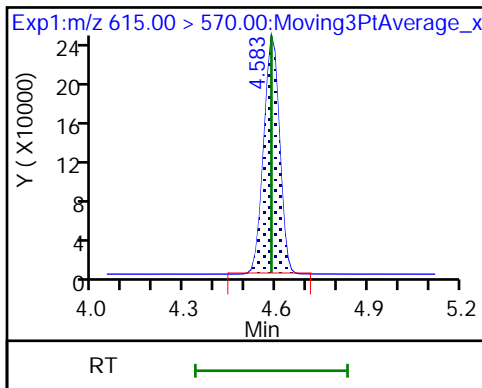
37 Perfluorododecanoic acid (ND)



D 36 13C2 PFDoA

41 Perfluorotridecanoic acid (ND)

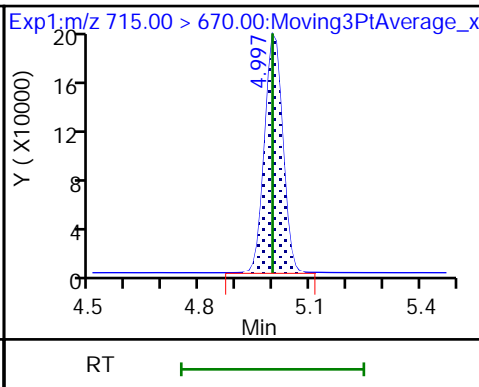
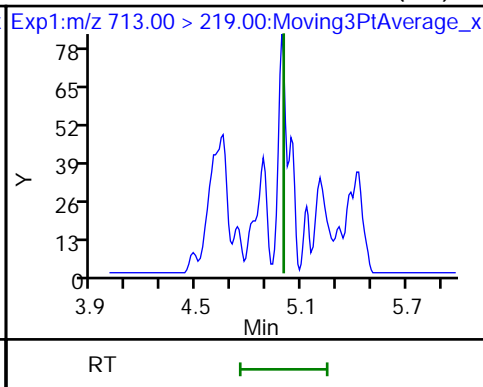
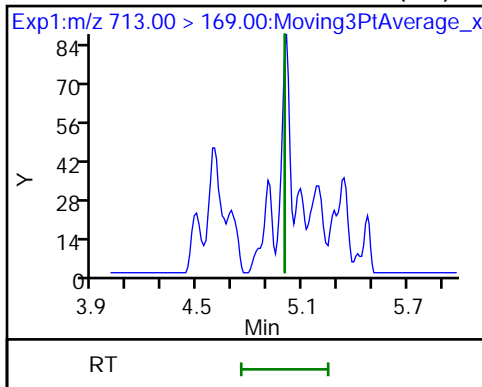
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)

D 43 13C2 PFTeDA



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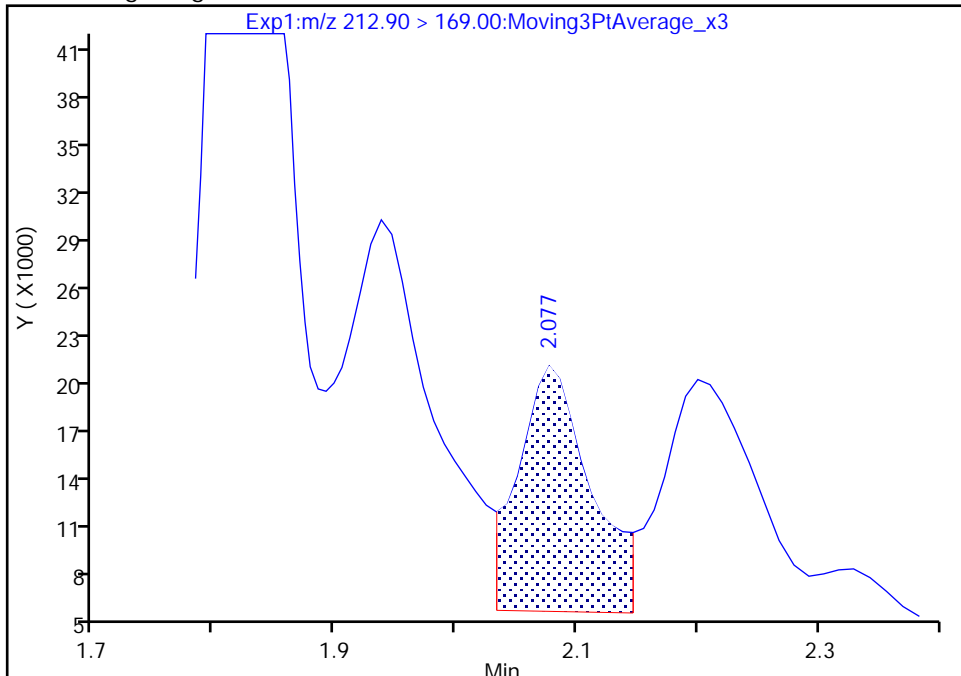
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Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

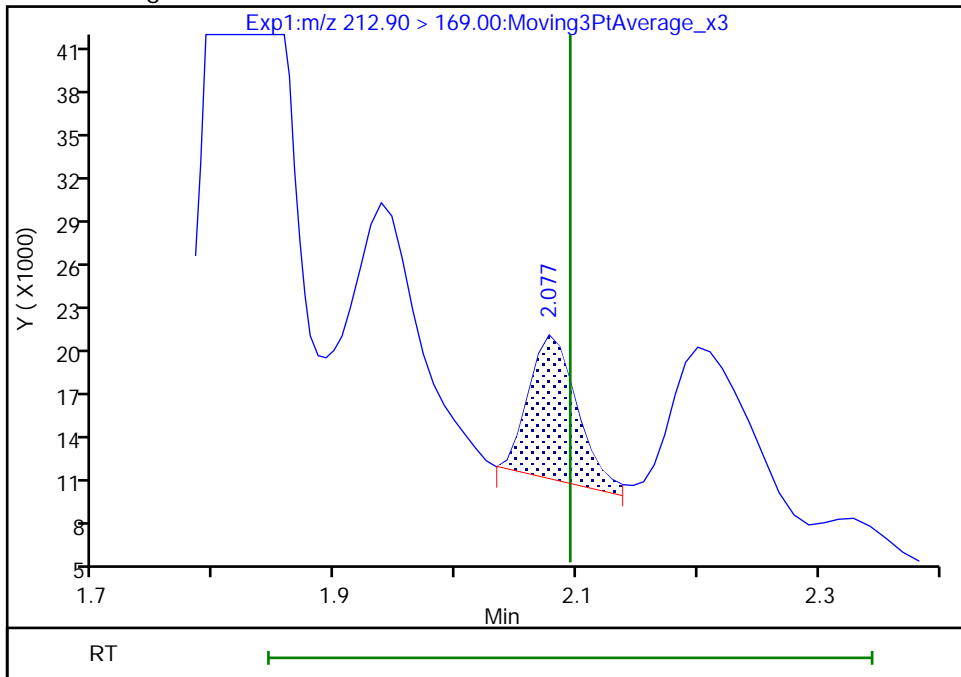
RT: 2.08
Area: 63063
Amount: 0.024740
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 27980
Amount: -0.013164
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:43:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

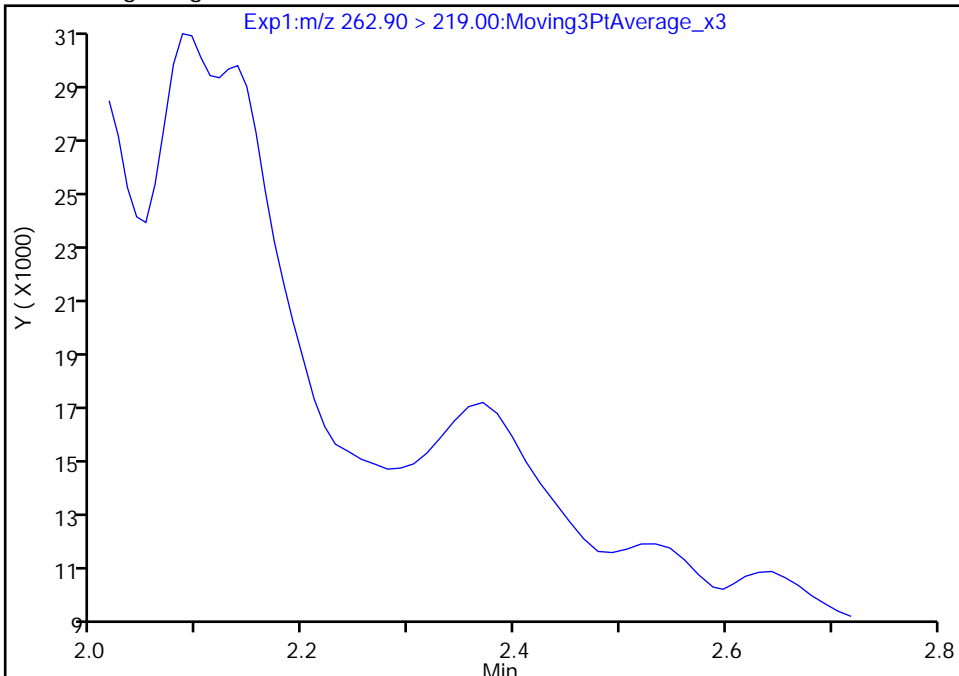
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

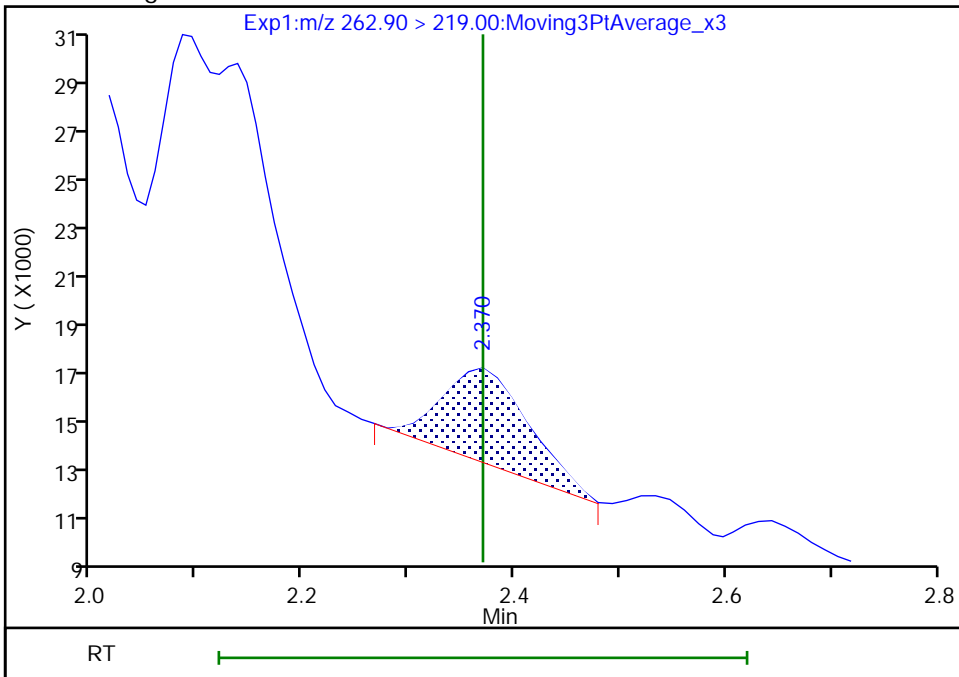
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 21379
Amount: 0.026365
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:44:01
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

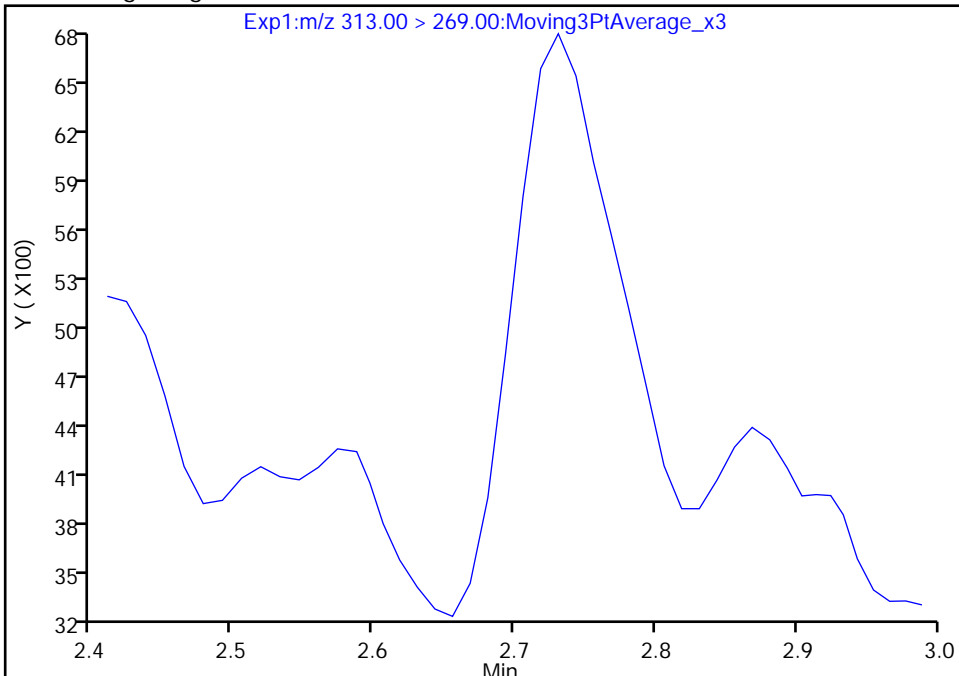
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

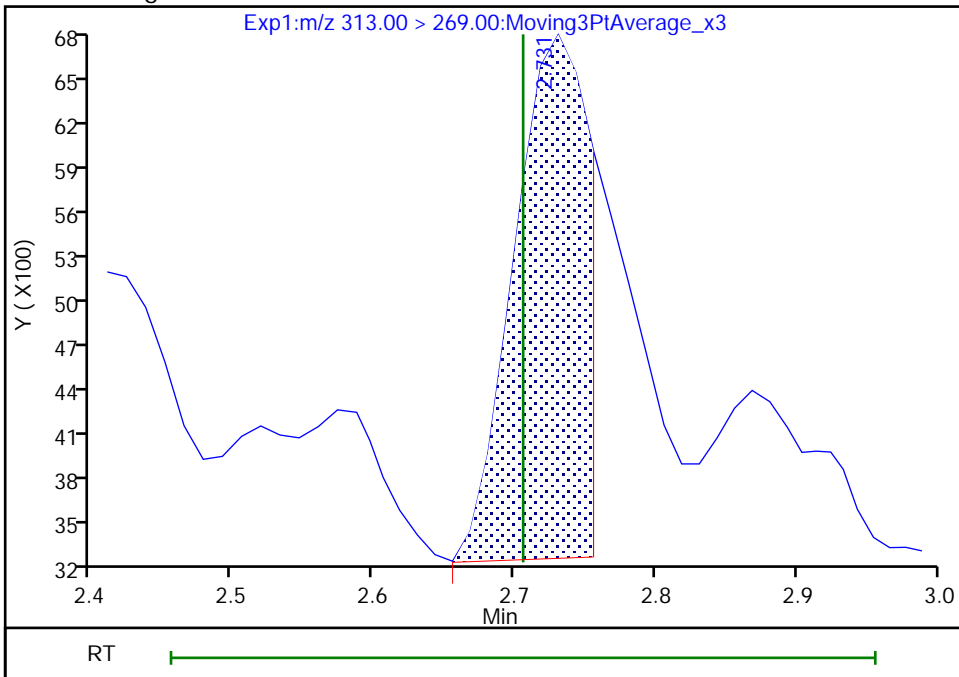
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 12445
Amount: 0.015594
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:44:45
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

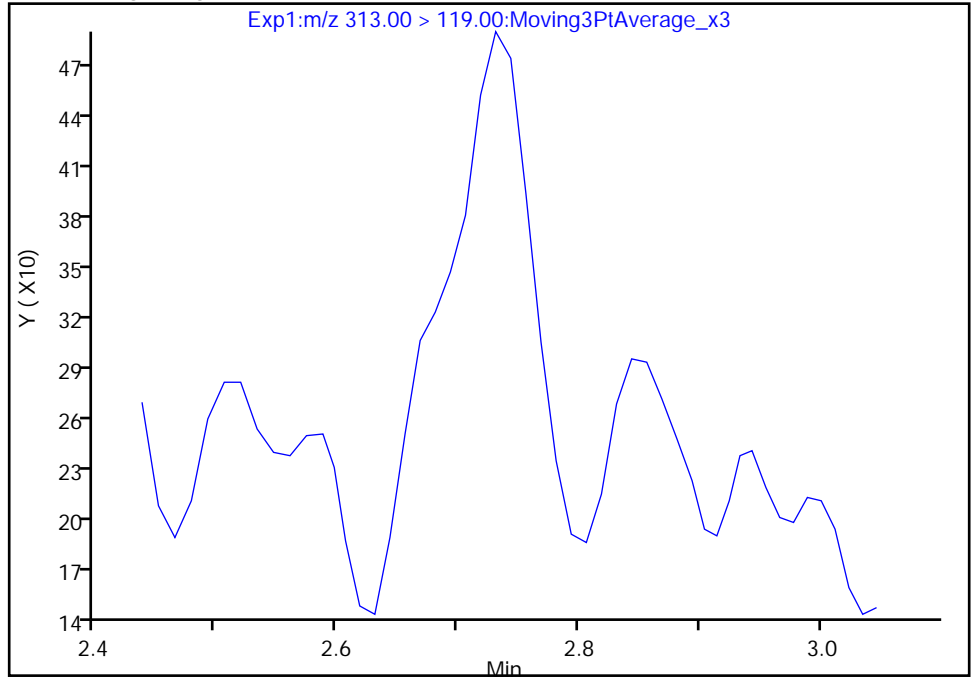
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

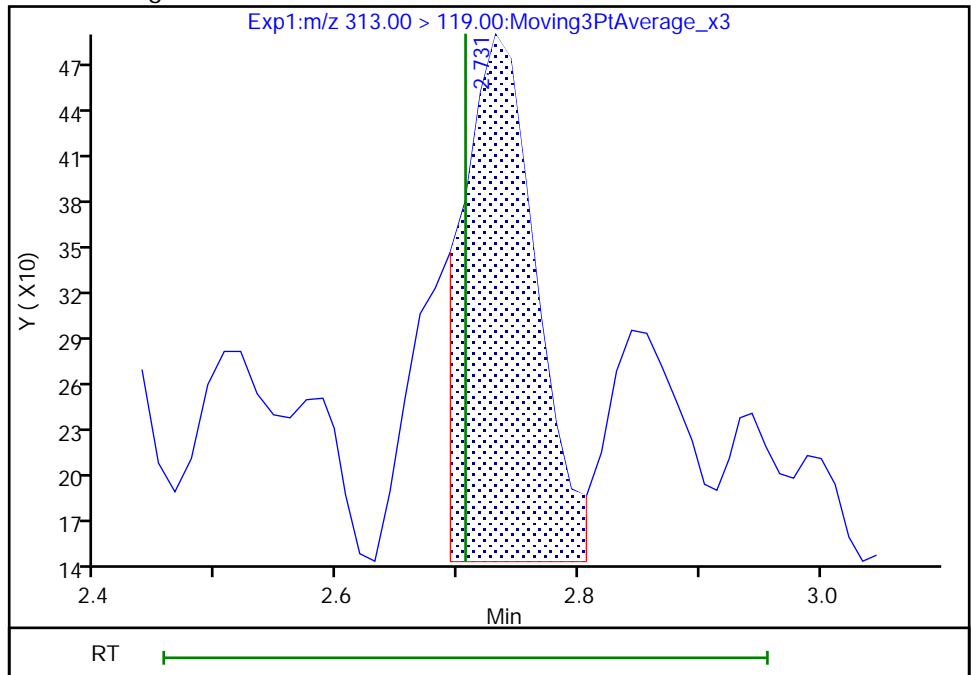
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 1434
Amount: 0.015594
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:44:49

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

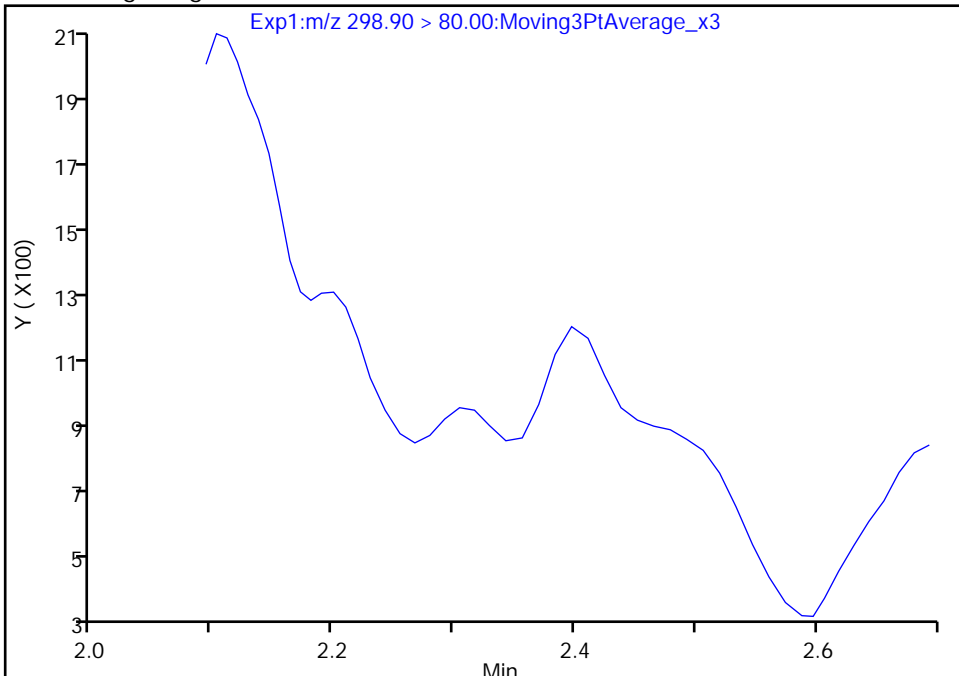
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

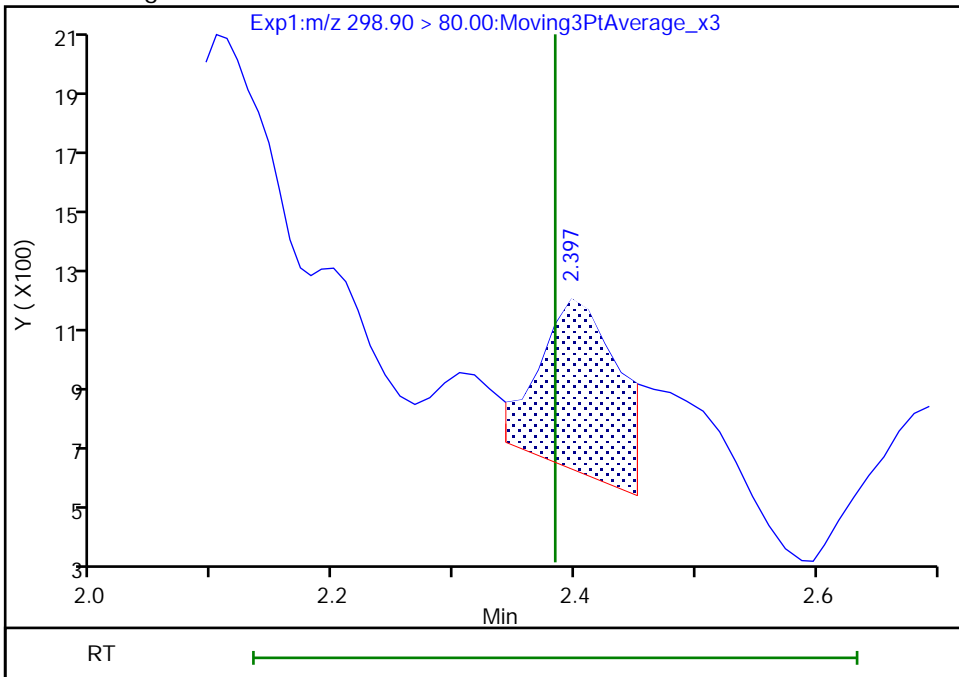
Not Detected
Expected RT: 2.38

Processing Integration Results



RT: 2.40
Area: 2392
Amount: 0.003061
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:44:20
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

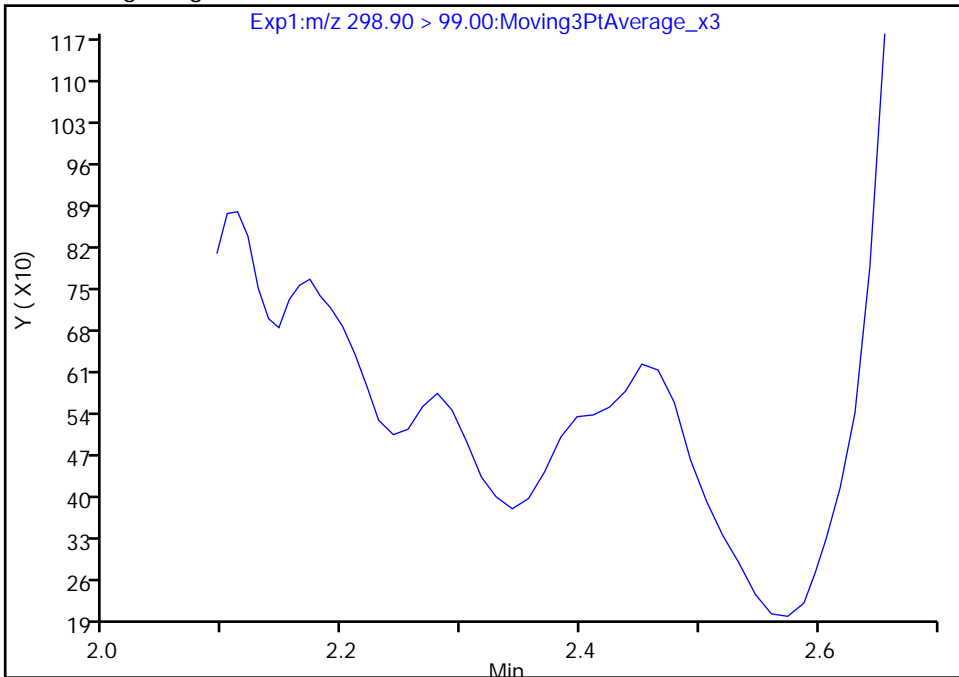
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

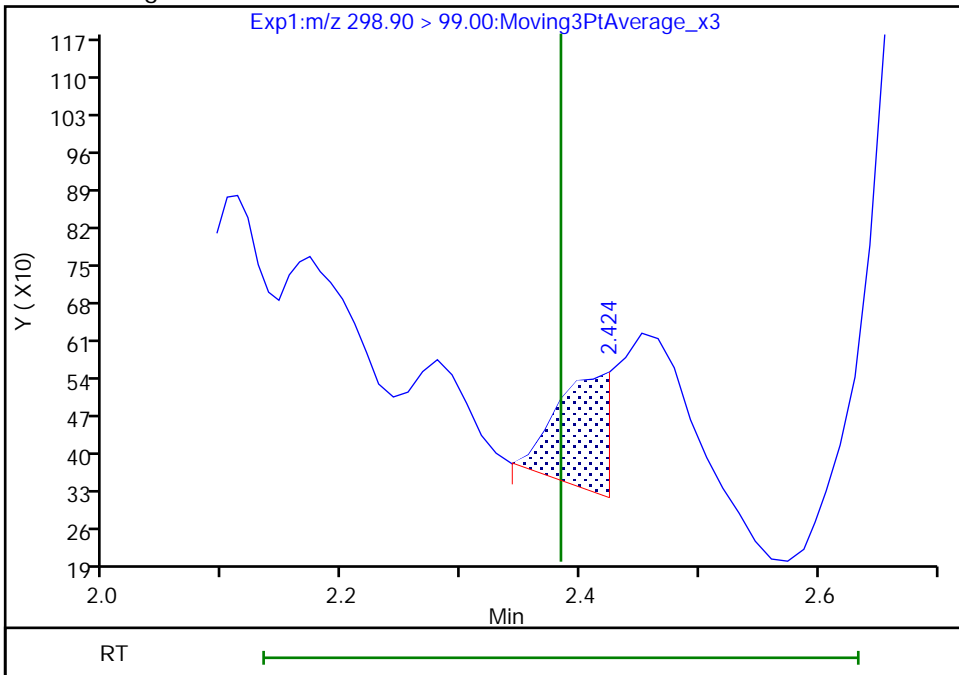
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.42
Area: 640
Amount: 0.003061
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:44:23

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

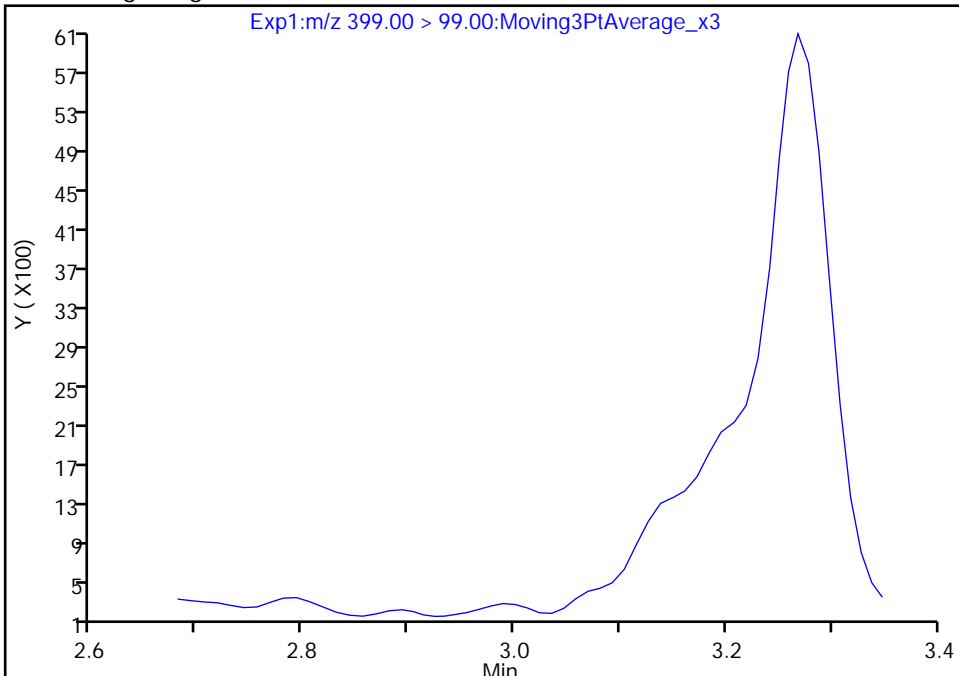
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

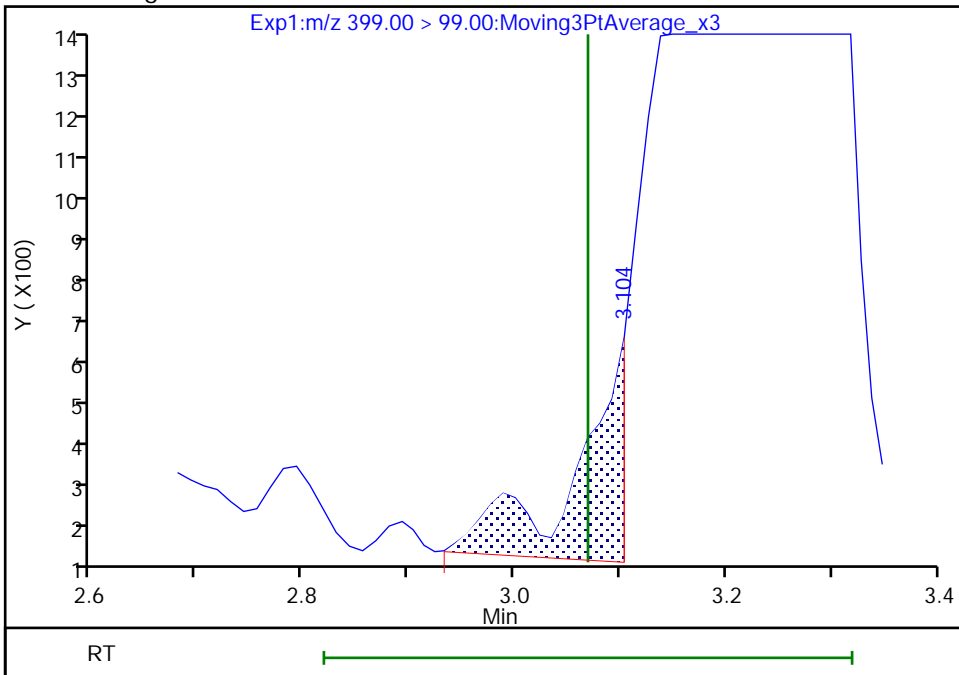
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 1460
Amount: 0.006319
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:45:18
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

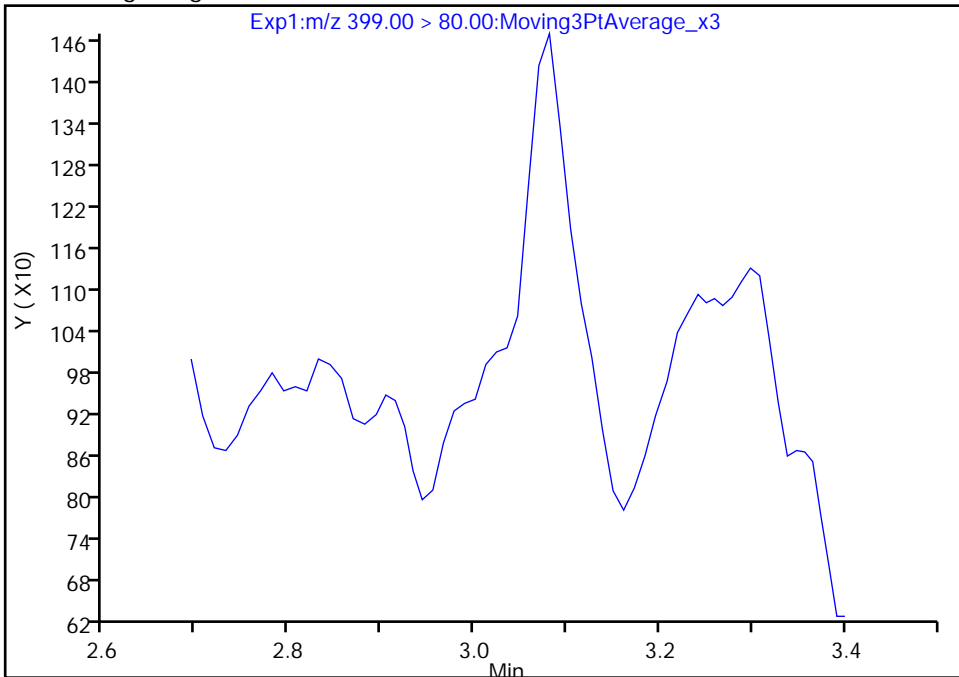
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

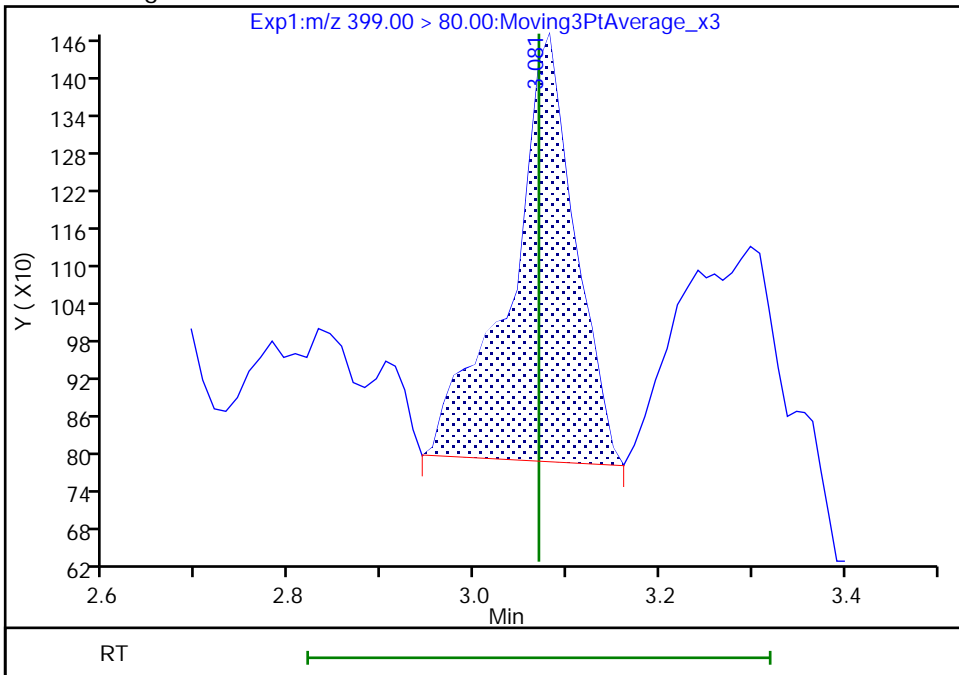
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 3309
Amount: 0.006319
Amount Units: ng/ml



Eurofins Burlington

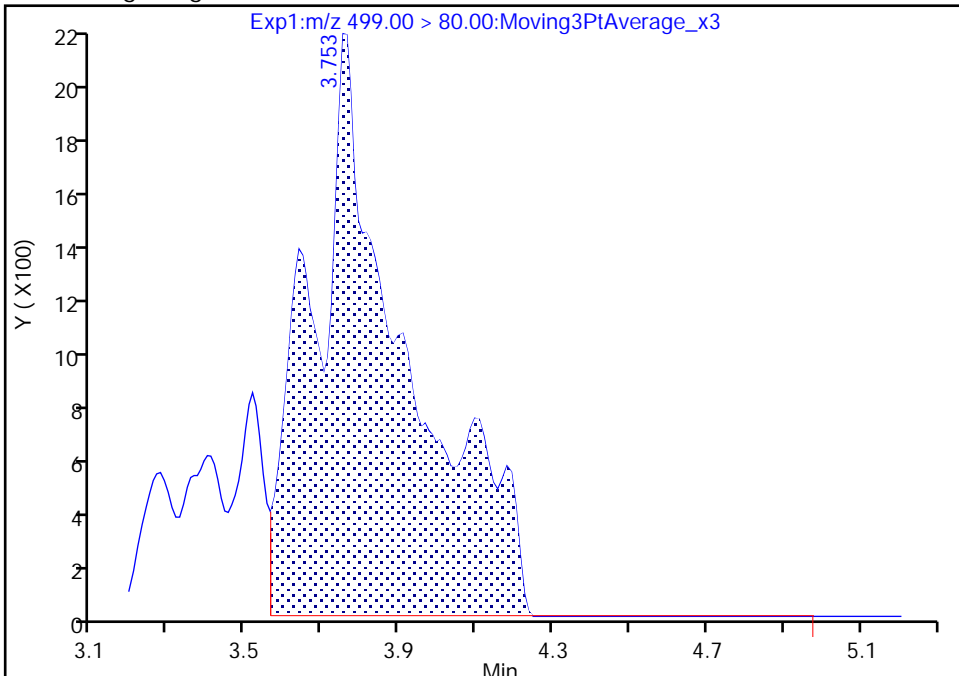
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

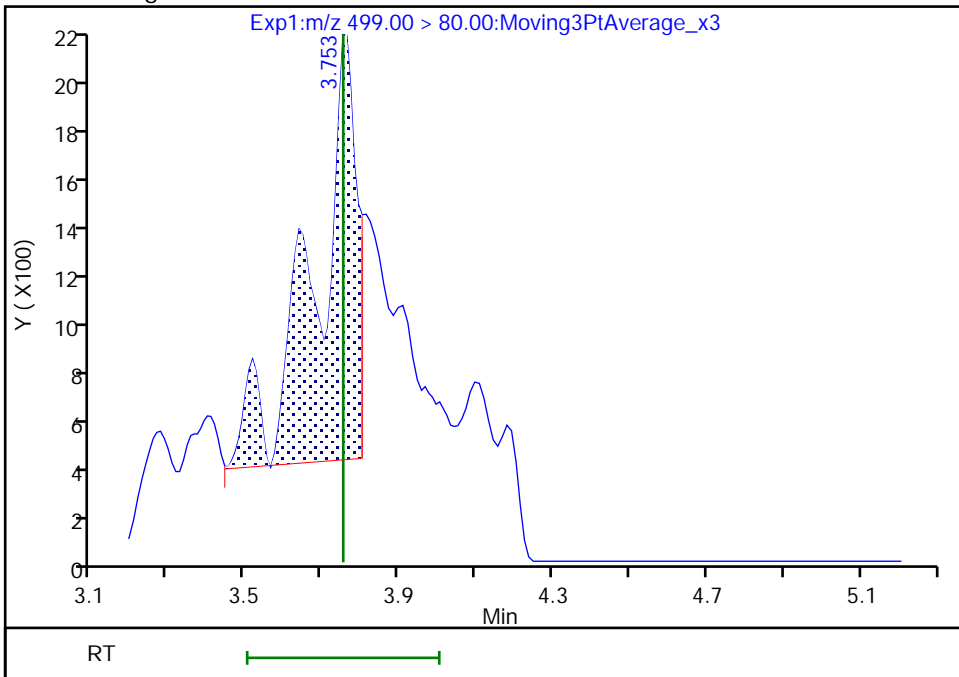
RT: 3.75
Area: 36105
Amount: 0.089417
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 12718
Amount: 0.031497
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:46:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

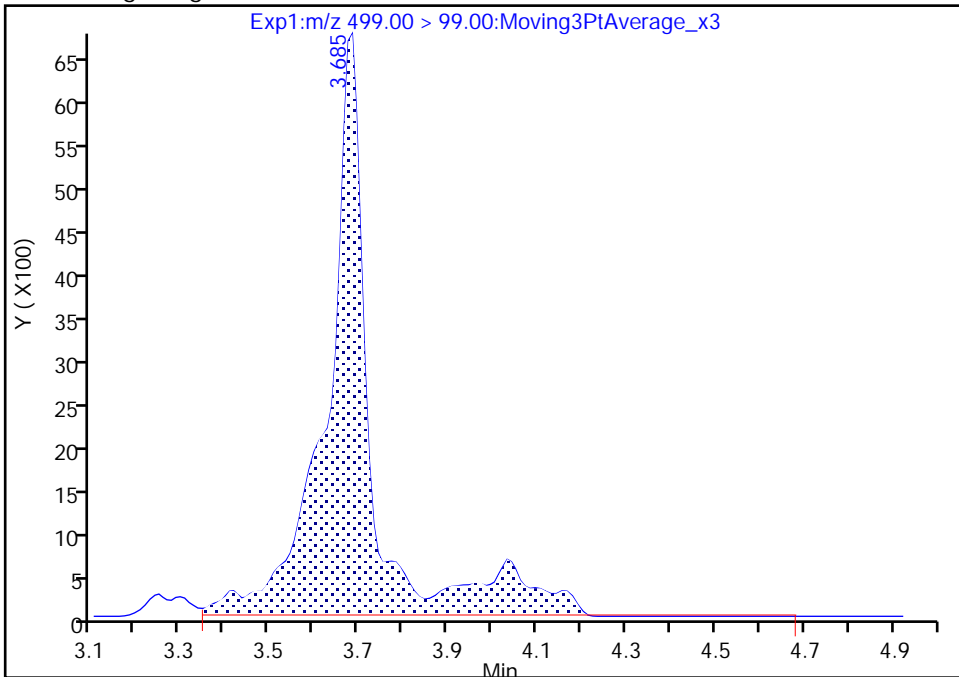
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

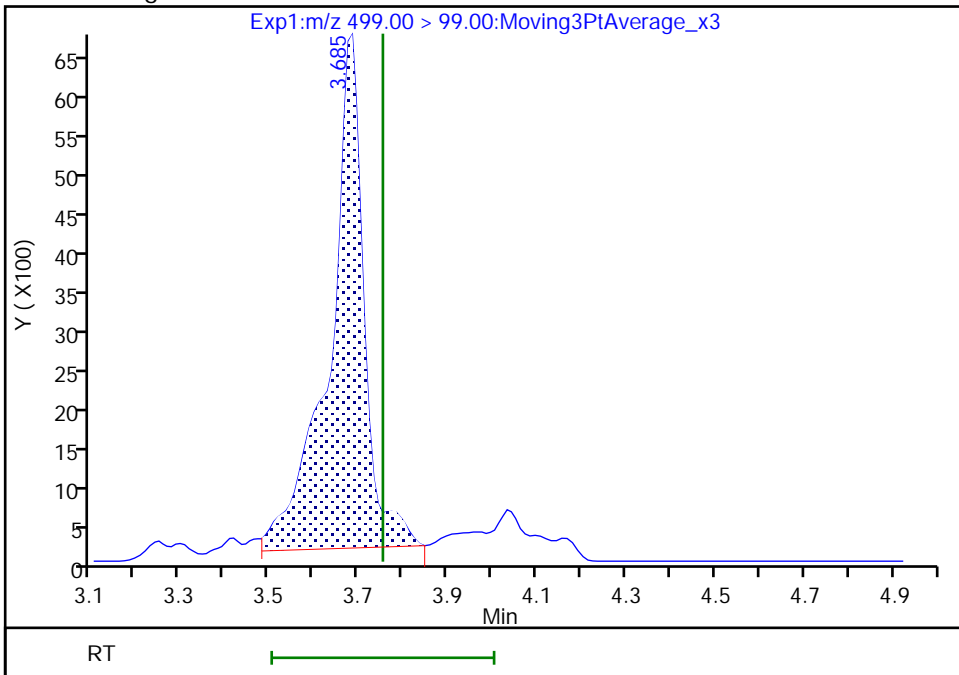
RT: 3.69
Area: 47876
Amount: 0.089417
Amount Units: ng/ml

Processing Integration Results



RT: 3.69
Area: 35346
Amount: 0.031497
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:46:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

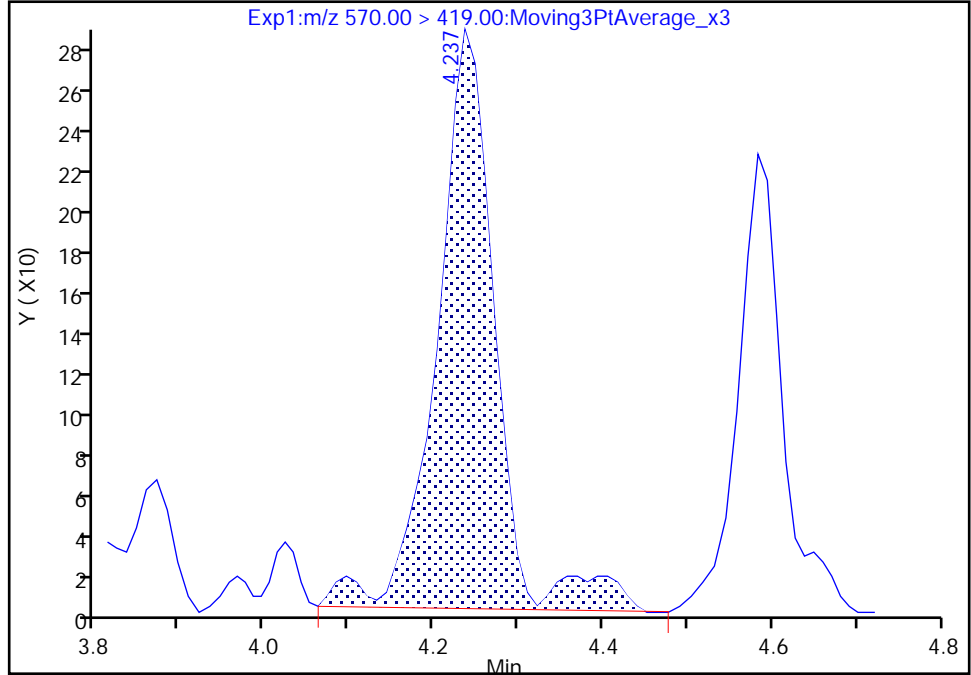
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

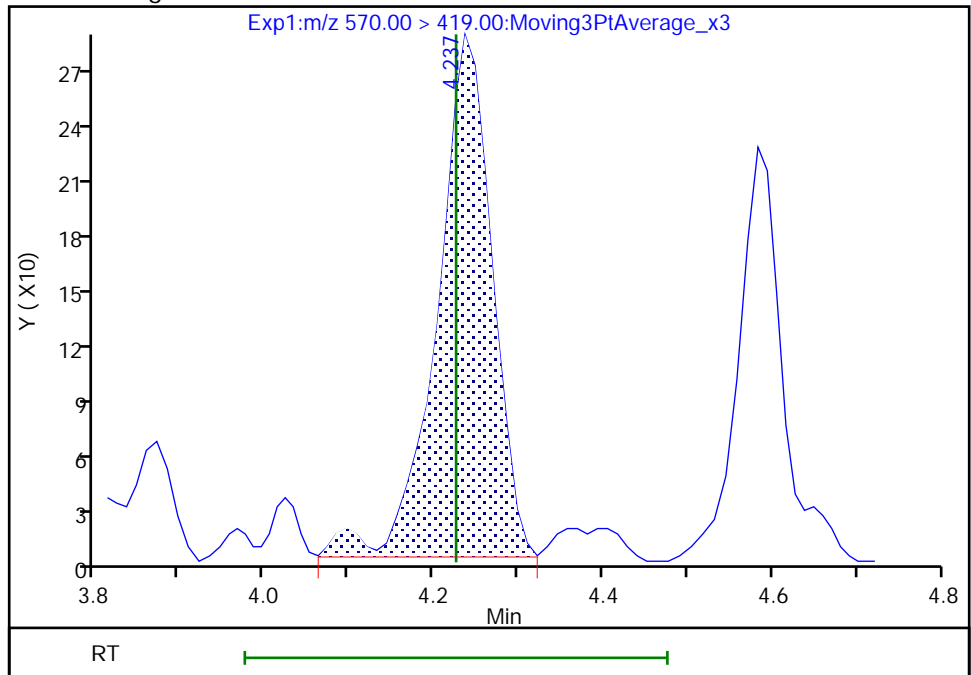
RT: 4.24
Area: 1396
Amount: 0.008798
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 1297
Amount: 0.008174
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:47:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

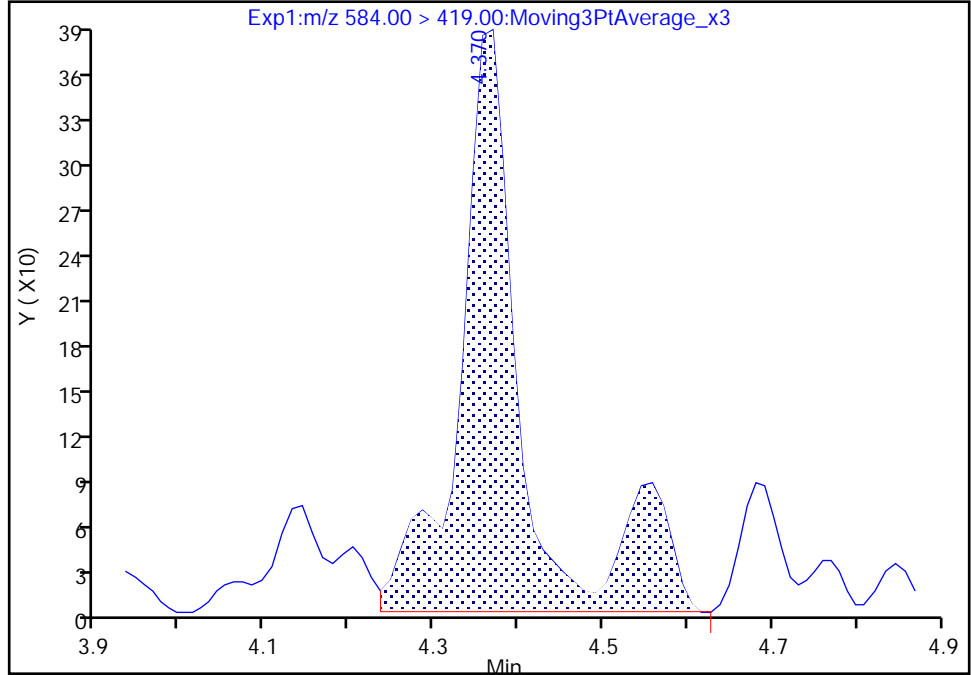
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

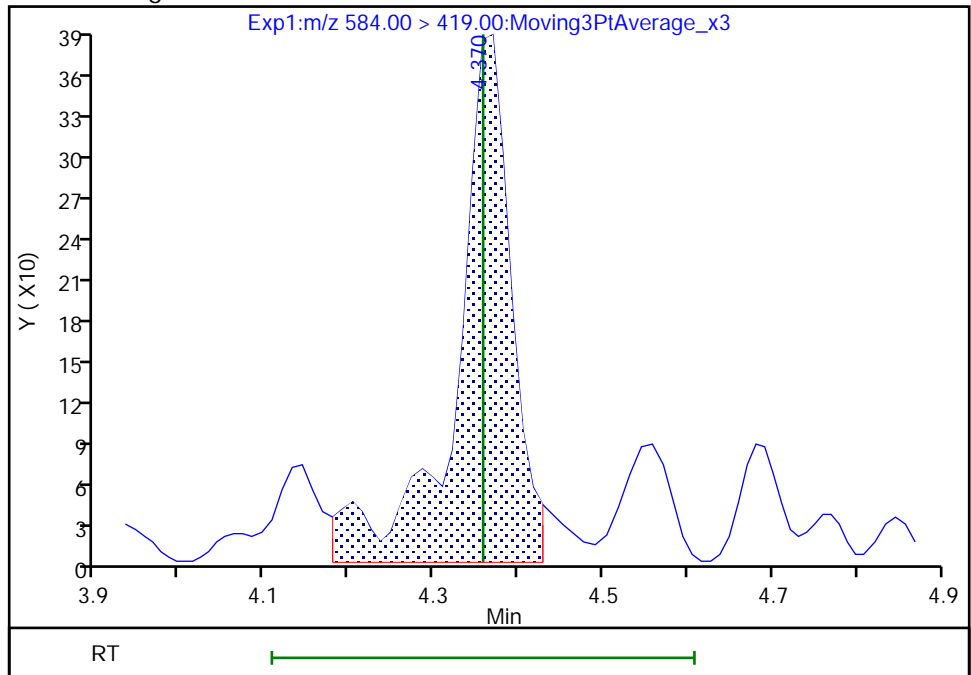
RT: 4.37
Area: 2030
Amount: 0.011674
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 1719
Amount: 0.009886
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:47:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

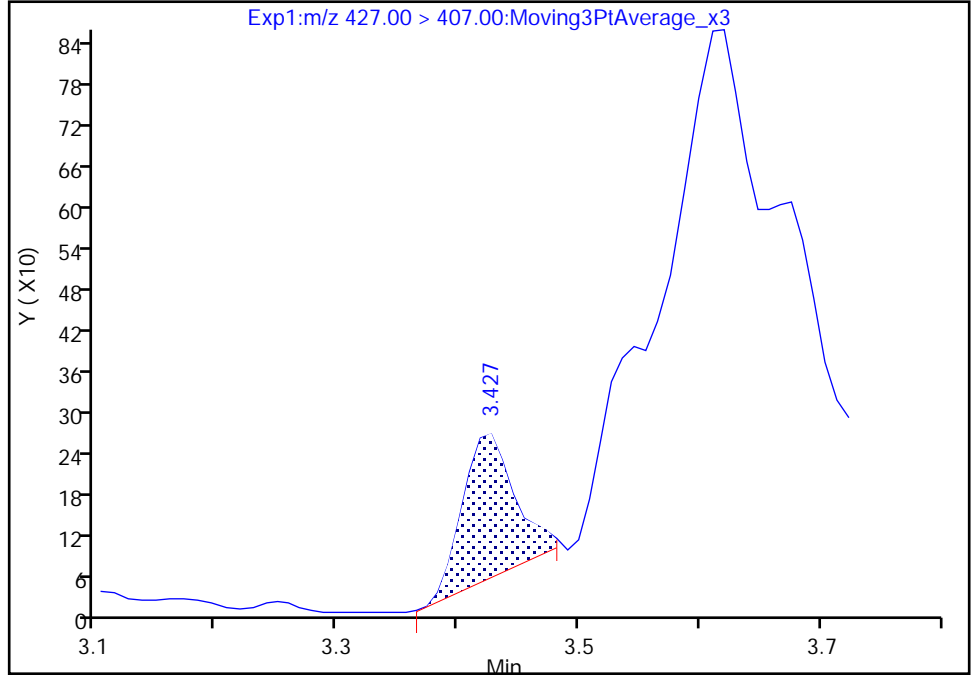
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

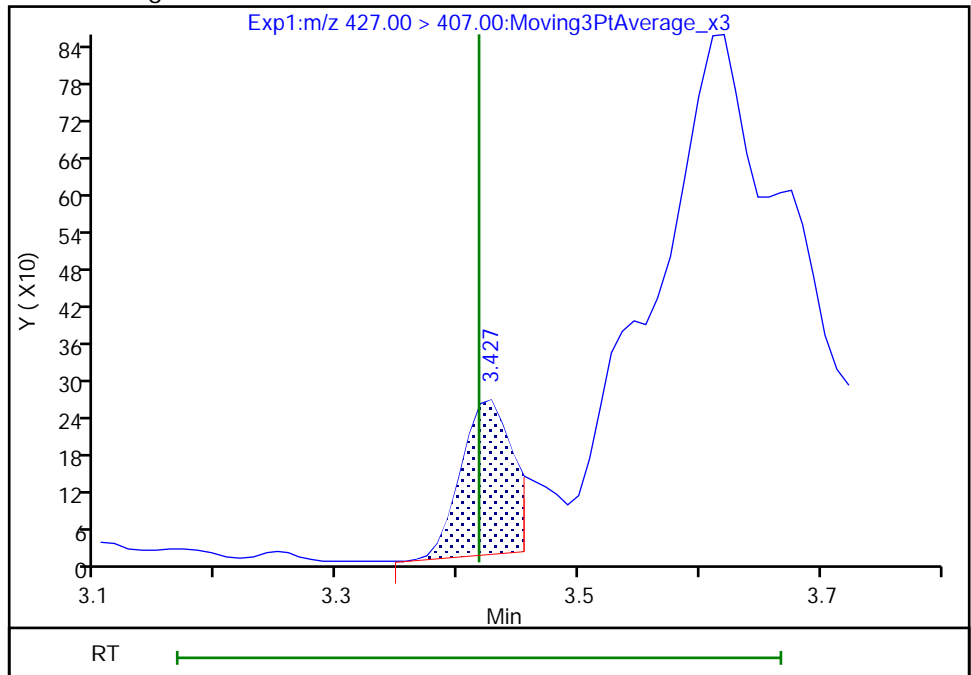
RT: 3.43
Area: 643
Amount: 0.002584
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 733
Amount: 0.002945
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:46:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

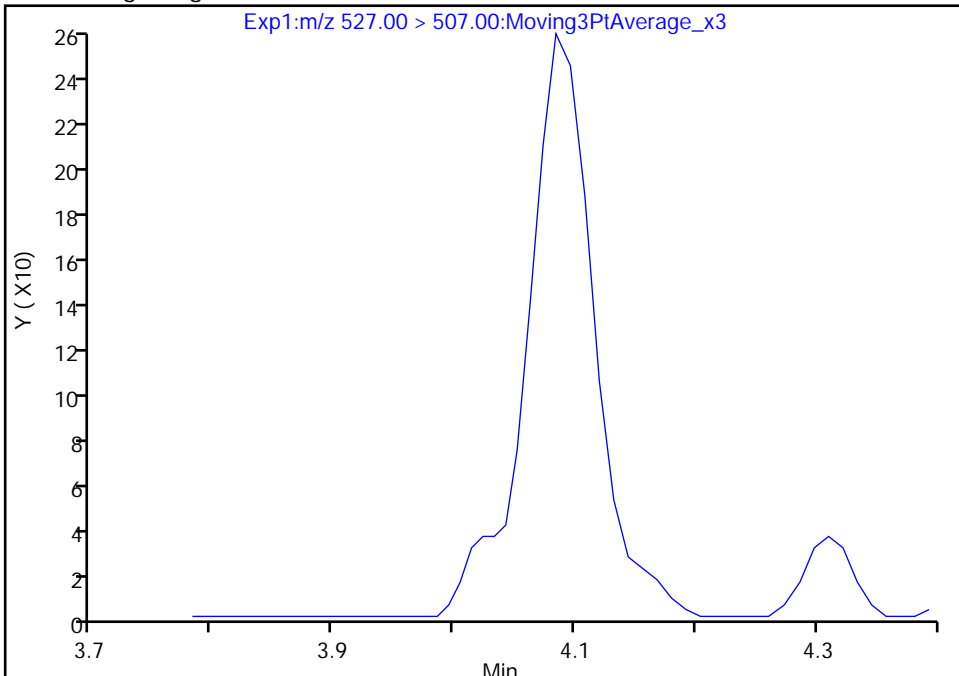
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A18.d
Injection Date: 26-Jan-2023 22:05:13 Instrument ID: LC812
Lims ID: 460-273176-A-2-A Lab Sample ID: 200-273176-2
Client ID: BCS-09-61_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

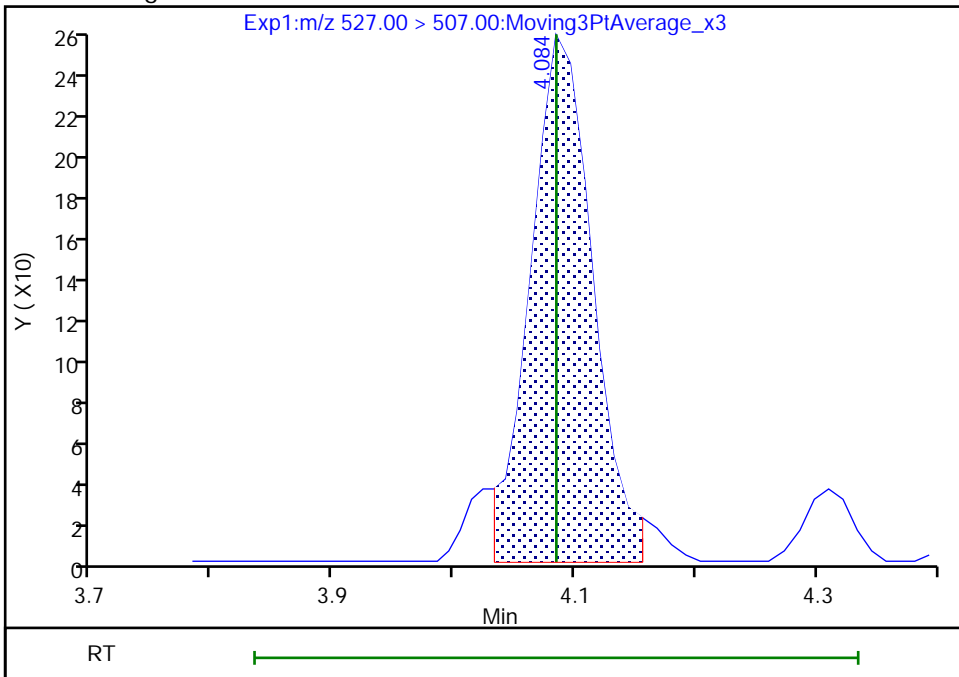
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 912
Amount: 0.002984
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:47:24
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-62_(17-17.5)P Lab Sample ID: 460-273176-3
 Matrix: Solid Lab File ID: PA230126A19.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:25
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.11(g) Date Analyzed: 01/26/2023 22:13
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 50.5 % Solids: 49.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.99	U	0.99	0.65
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.40	U	0.40	0.11
307-24-4	Perfluorohexanoic acid (PFHxA)	0.11	J	0.40	0.091
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.40	U	0.40	0.077
335-67-1	Perfluorooctanoic acid (PFOA)	0.40	U	0.40	0.11
375-95-1	Perfluorononanoic acid (PFNA)	0.40	U	0.40	0.067
335-76-2	Perfluorodecanoic acid (PFDA)	0.40	U	0.40	0.055
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.40	U	0.40	0.053
307-55-1	Perfluorododecanoic acid (PFDoA)	0.40	U	0.40	0.049
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.40	U	0.40	0.049
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.40	U	0.40	0.051
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.40	U	0.40	0.065
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.40	U	0.40	0.081
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.40	U	0.40	0.045
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.40	U	0.40	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.40	U	0.40	0.038
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.40	U	0.40	0.067
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.96	U	3.96	0.22
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.96	U	3.96	0.16
27619-97-2	6:2 FTS	3.96	U	3.96	0.11
39108-34-4	8:2 FTS	3.96	U	3.96	0.073

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-62_(17-17.5)P Lab Sample ID: 460-273176-3
 Matrix: Solid Lab File ID: PA230126A19.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:25
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.11(g) Date Analyzed: 01/26/2023 22:13
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 50.5 % Solids: 49.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	60		50-150
STL01892	13C4 PFHpA	74		50-150
STL00990	13C4 PFOA	82		50-150
STL00991	13C4 PFOS	69		50-150
STL00995	13C5 PFNA	83		50-150
STL00992	13C4 PFBA	74		50-150
STL00993	13C2 PFHxA	78		50-150
STL00996	13C2 PFDA	77		50-150
STL00997	13C2 PFUnA	75		50-150
STL00998	13C2 PFDoA	71		50-150
STL01056	13C8 FOSA	57		50-150
STL01893	13C5 PFPeA	75		50-150
STL02116	13C2 PFTeDA	71		50-150
STL02118	d3-NMeFOSAA	83		50-150
STL02117	d5-NEtFOSAA	104		50-150
STL02279	M2-6:2 FTS	89		50-150
STL02280	M2-8:2 FTS	100		50-150
STL02337	13C3 PFBS	63		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
 Lims ID: 460-273176-A-3-A
 Client ID: BCS-09-62_(17-17.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 22:13:23 ALS Bottle#: 16 Worklist Smp#: 19
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-3-A
 Misc. Info.: 200-0054135-019 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 17:56:49
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.603	1491783	0.9205	73.6	9645	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.017	1.000	57926	0.007837		4.0		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1225860	0.9358	74.9	3147	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	18669	0.0166		0.3		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1051383	0.7311	62.9	58762	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.397	2.384	0.013	1.000	1789	0.001846	Target=2.10	0.5		
298.90 > 99.00	2.410	2.384	0.026	1.006	1299		1.38(1.05-3.15)	0.0		M
D 7 13C2 PFHxA	315.00 > 270.00	2.718	2.694	0.024	0.789	1332654	0.9790	78.3	5819	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.718	2.706	0.012	1.000	30700	0.0273	Target=13.16	2.6		
313.00 > 119.00	2.731	2.706	0.025	1.005	1751		17.53(6.58-19.74)	1.1		M
D 11 18O2 PFHxS	403.00 > 84.00	3.081	3.069	0.012	0.894	736794	0.7041	59.5	3401	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.081	3.069	0.012	1.000	5182	0.007577	Target=3.18	1.3		RM
399.00 > 99.00	3.104	3.069	0.035	1.007	14081		0.37(1.59-4.77)	1.6		M
D 9 13C4 PFHpA	367.00 > 322.00	3.081	3.069	0.012	0.894	1263892	0.9274	74.2	5047	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.092	3.069	0.023	1.004	11793	0.0110	Target=4.10	1.3		RM
363.00 > 169.00	3.081	3.069	0.012	1.000	1275		9.25(2.05-6.16)	3.3		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.436	3.417	0.019	0.997	174447	1.06		89.1	76.9	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.426	3.417	0.009	0.997	1101	0.003273			1.7	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.463	3.417	0.046	0.923	5100	0.007945	Target=4.59	0.8		R
449.00 > 99.00	3.390	3.417	-0.027	0.904	23862		0.21(2.30-6.89)	2.5		R
D 14 13C4 PFOA										
417.00 > 372.00	3.445	3.426	0.019	1.000	1472220	1.02		81.6	9133	
* 62 13C2 PFOA										
415.00 > 370.00	3.445	3.426	0.019		1761877	1.25			5938	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.436	3.426	0.010	0.997	18221	0.0142	Target=2.71	1.2		RM
413.00 > 169.00	3.445	3.426	0.019	1.000	4040		4.51(1.36-4.07)	7.8		M
D 18 13C4 PFOS										
503.00 > 80.00	3.752	3.754	-0.002	1.089	527175	0.8286		69.3	288	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.762	3.754	0.008	1.003	14244	0.0266	Target=4.23	3.2		RM
499.00 > 99.00	3.598	3.754	-0.156	0.959	117411		0.12(2.11-6.34)	35.8		M
D 19 13C5 PFNA										
468.00 > 423.00	3.772	3.774	-0.002	1.095	1457650	1.04		82.9	8398	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.074	-0.003	1.182	1388750	0.9624		77.0	8722	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.082	4.085	-0.003	1.185	247025	1.20		99.8	119	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.130	4.085	0.045	1.012	19	0.00005077				M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.130	4.144	-0.014	1.000	1075	0.001593		8.4		M
D 21 13C8 FOSA										
506.00 > 78.00	4.130	4.144	-0.014	1.199	838805	0.7153		57.2	3053	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.213	4.226	-0.013	1.223	292754	1.03		82.6	2040	
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.346	-0.002	1.261	1173997	0.9426		75.4	7270	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.367	4.358	0.009	1.003	560	0.002127		2.4		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.356	4.358	-0.002	1.264	354281	1.30		104	1184	
D 36 13C2 PFDaA										
615.00 > 570.00	4.582	4.584	-0.002	1.330	1103007	0.8832		70.7	4548	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	278	0.002900	Target=0.83	3.4		M
713.00 > 219.00	4.994	4.998	-0.004	0.998	387		0.72(0.42-1.25)	6.2		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	959611	0.8934		71.5	5336	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d

Injection Date: 26-Jan-2023 22:13:23

Instrument ID: LC812

Lims ID: 460-273176-A-3-A

Lab Sample ID: 200-273176-3

Client ID: BCS-09-62_(17-17.5)P

Operator ID: LC812user

ALS Bottle#: 16

Worklist Smp#: 19

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

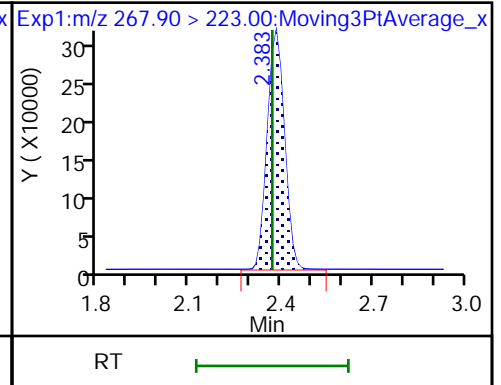
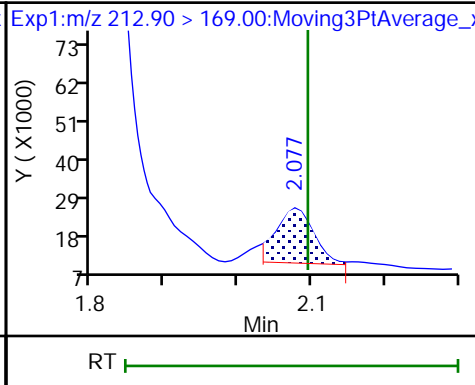
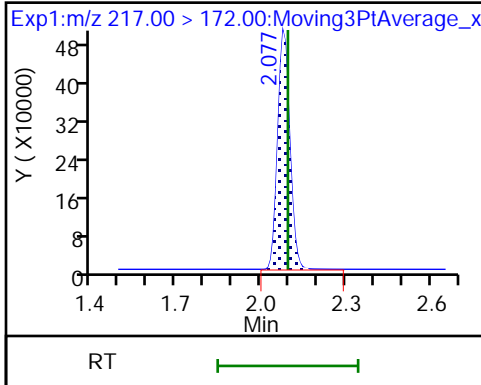
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

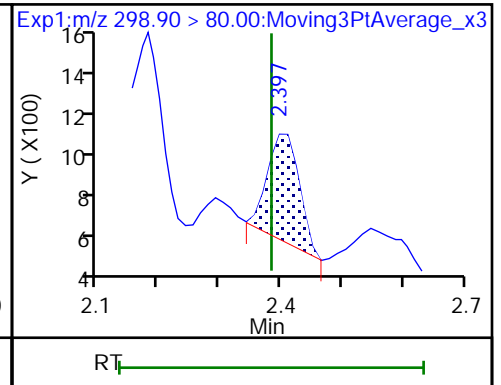
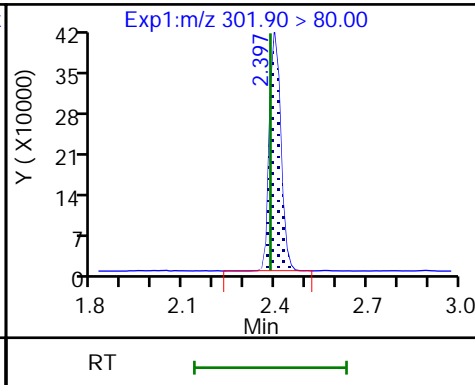
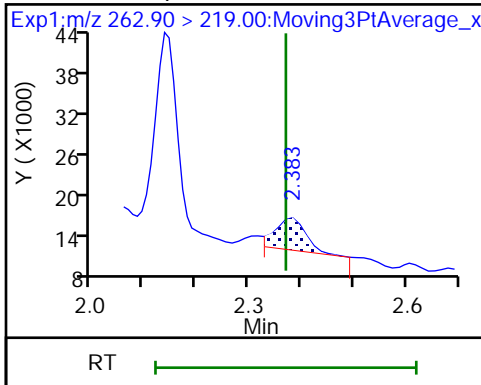
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

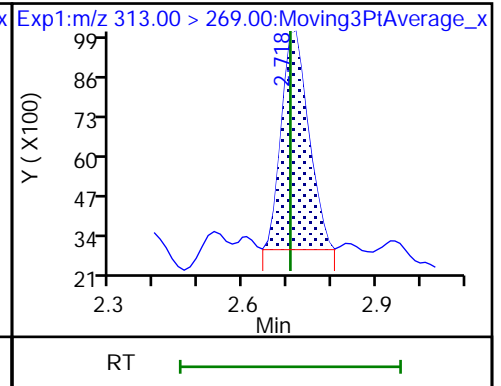
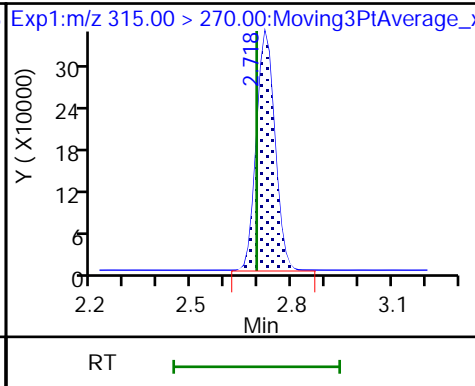
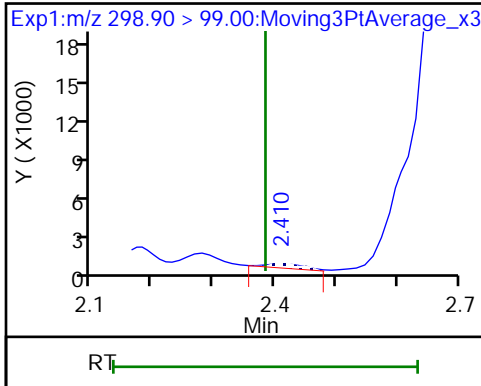
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

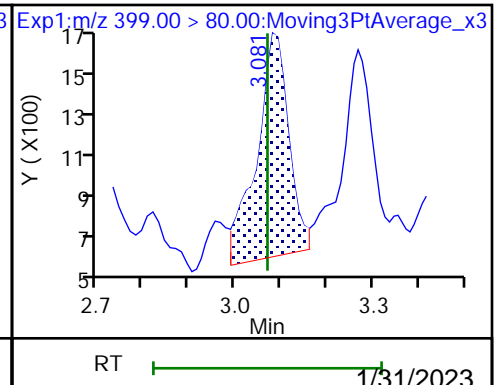
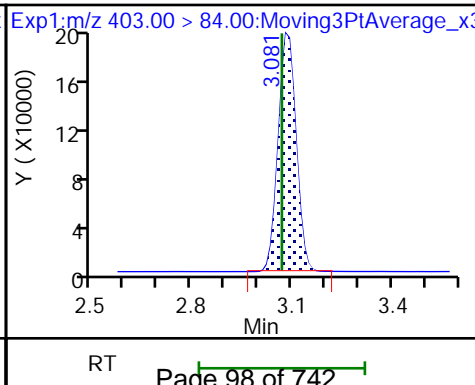
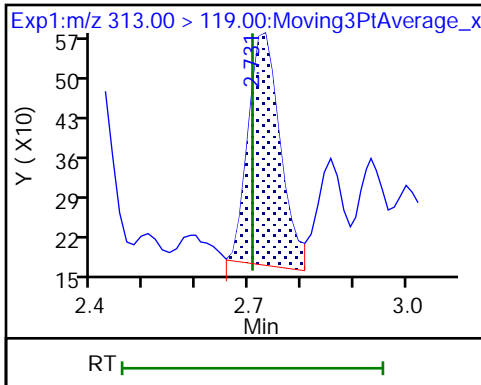
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

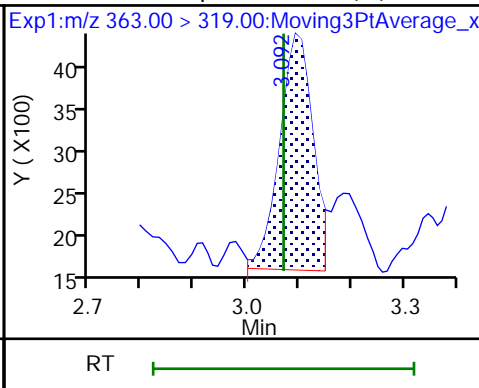
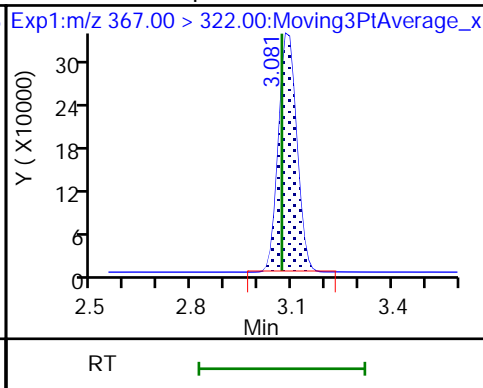
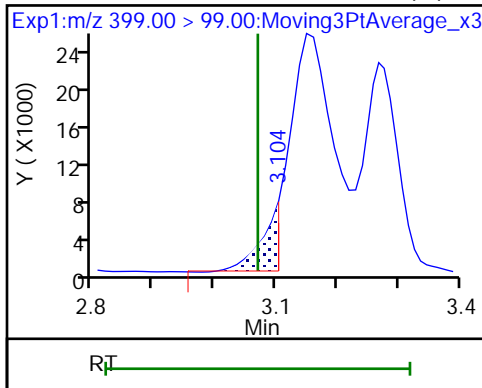
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

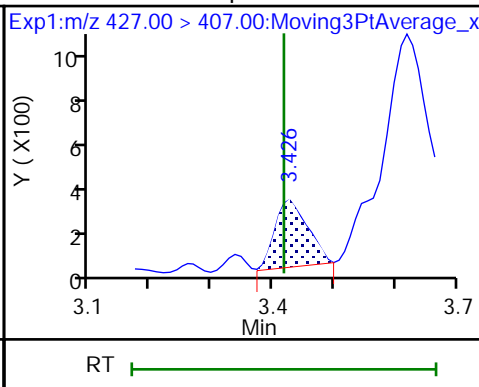
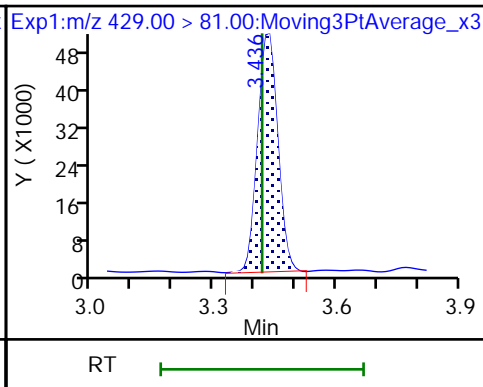
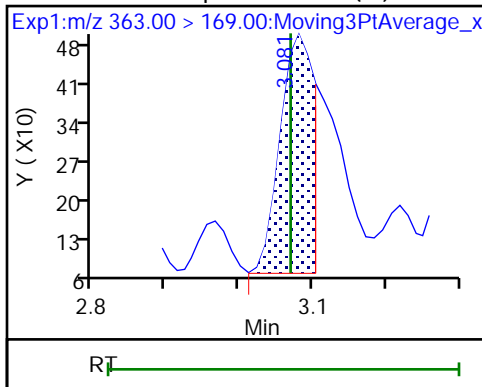
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

D 12 M2-6:2 FTS

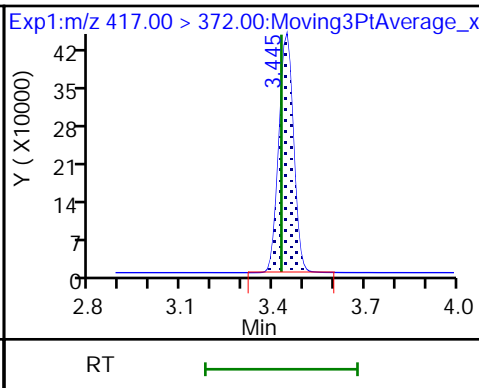
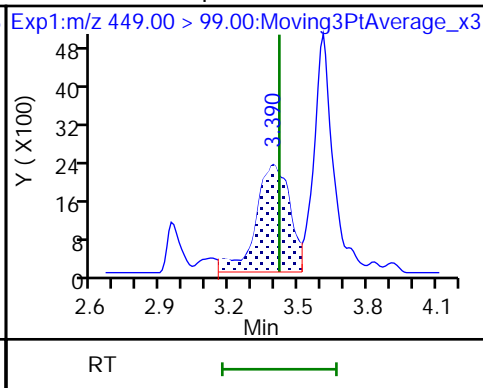
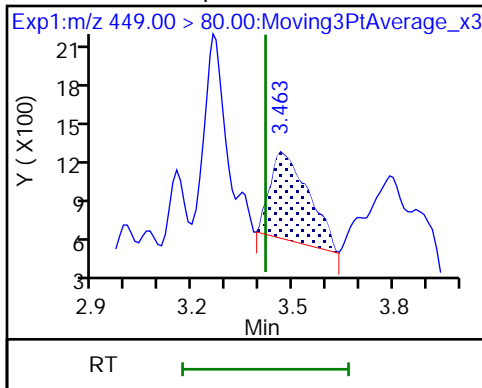
13 1H,1H,2H,2H-perfluorooctanesulfo



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

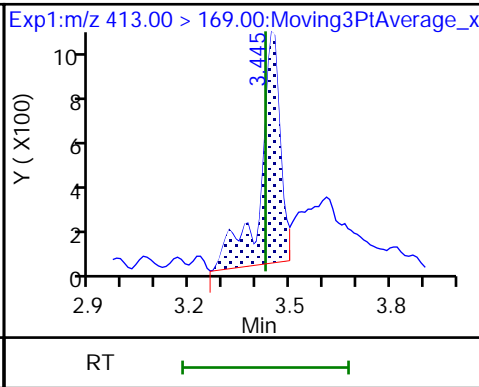
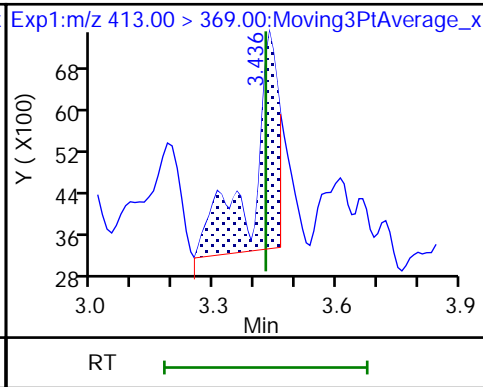
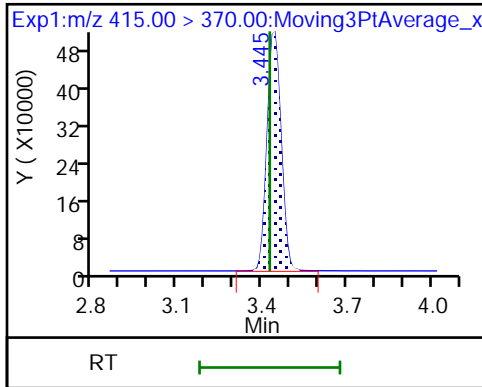
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

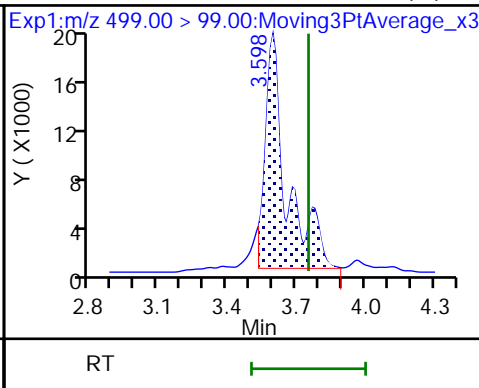
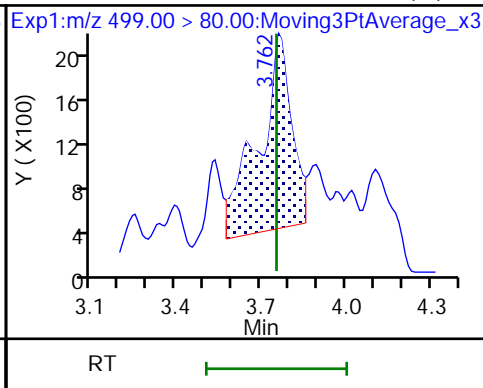
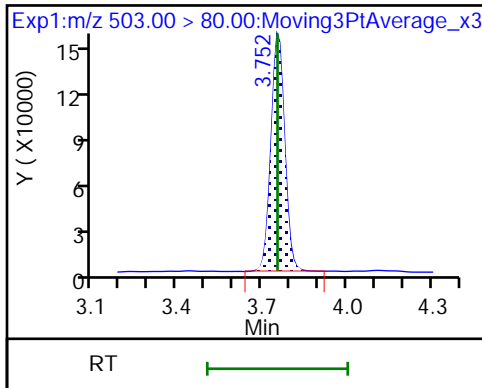
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

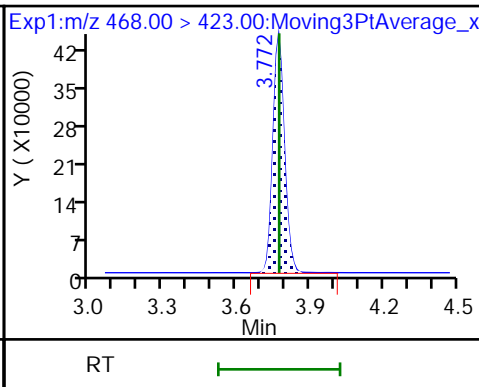
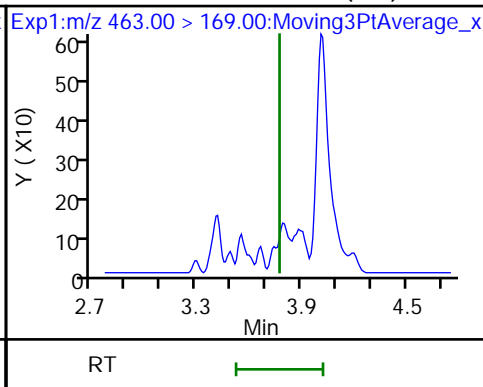
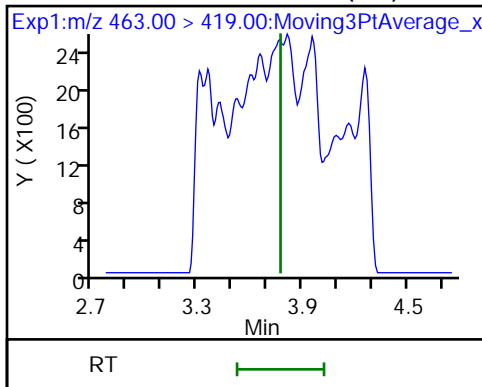
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

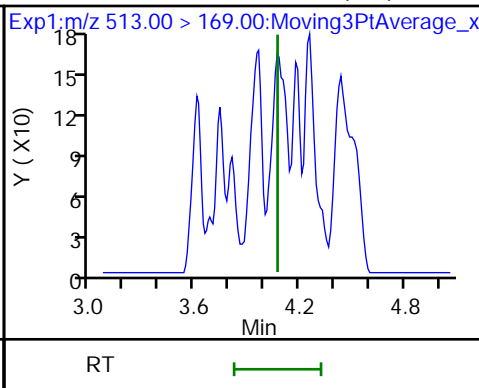
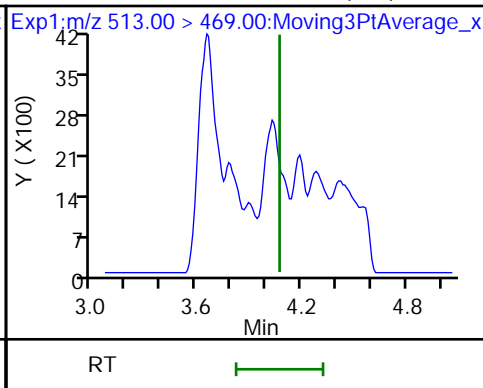
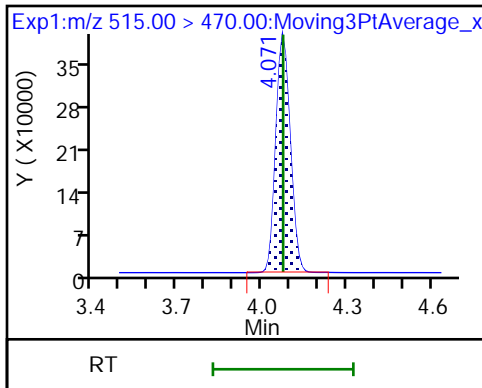
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

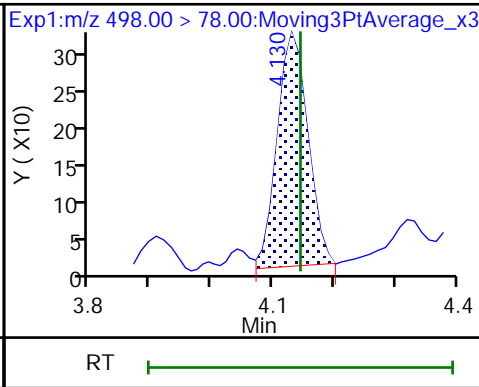
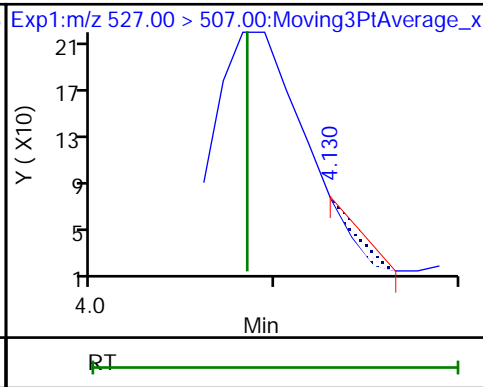
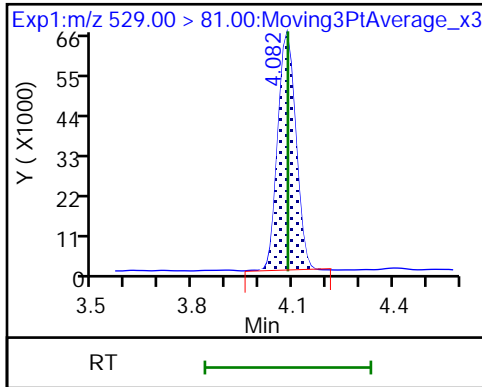
24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

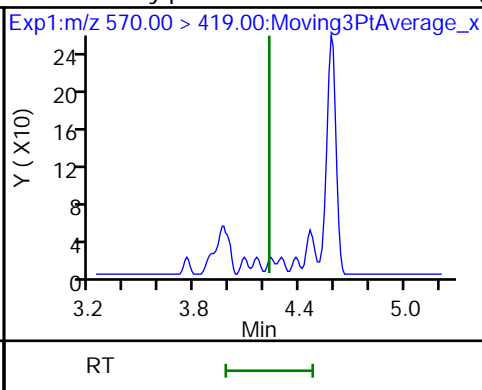
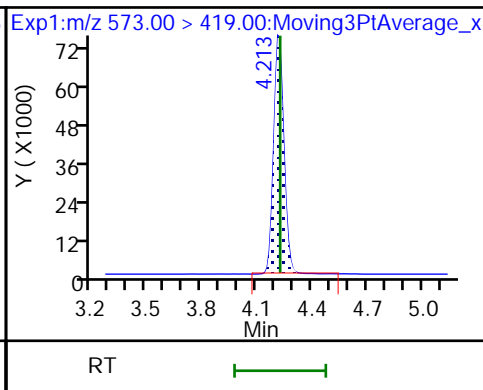
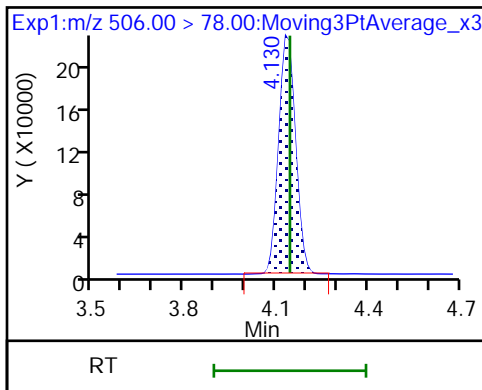
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

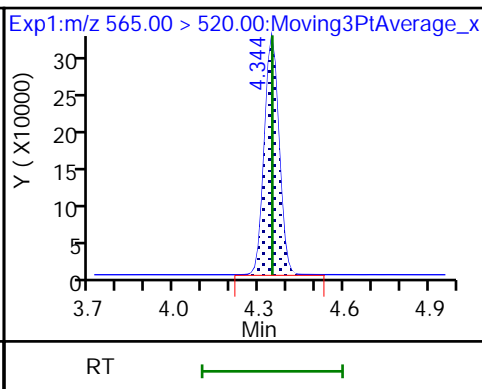
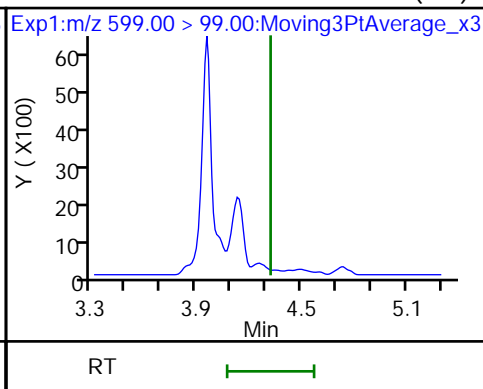
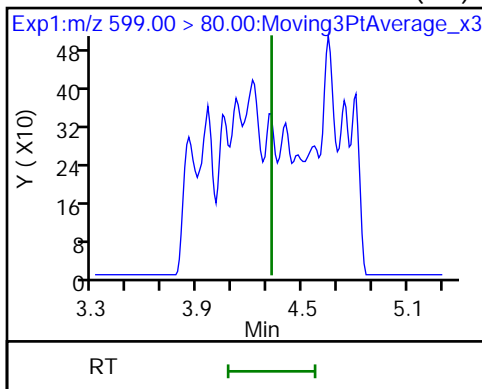
28 N-methylperfluorooctanesulfonami (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

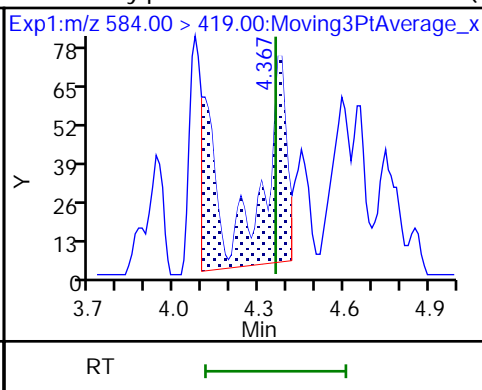
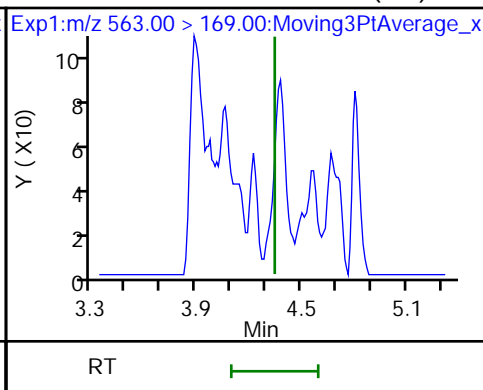
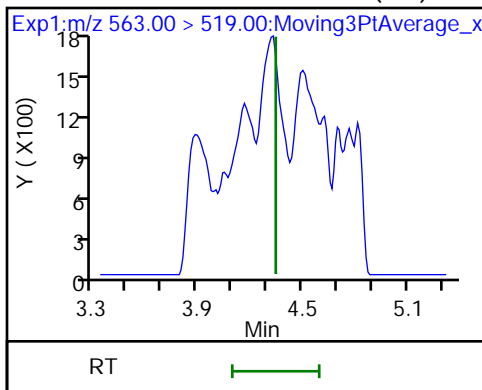
D 30 13C2 PFUa



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

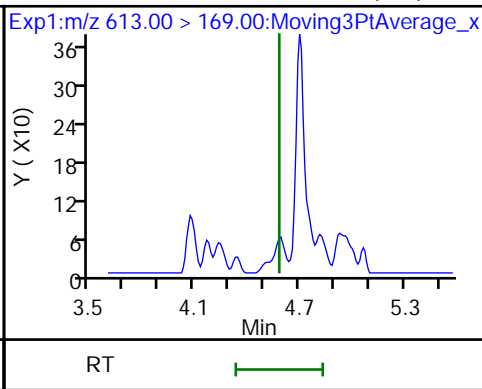
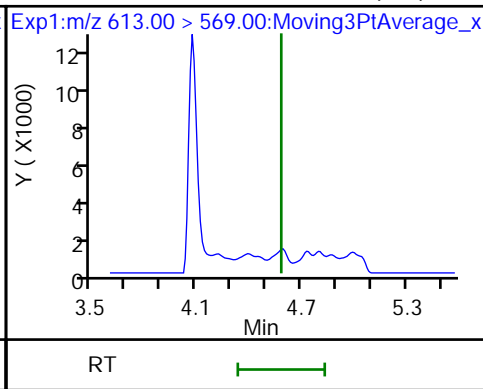
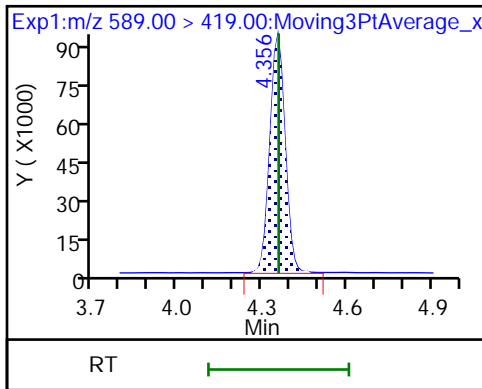
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

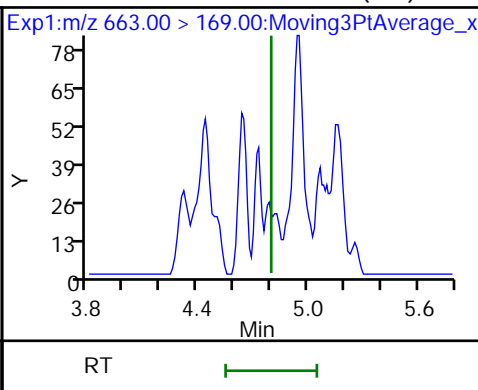
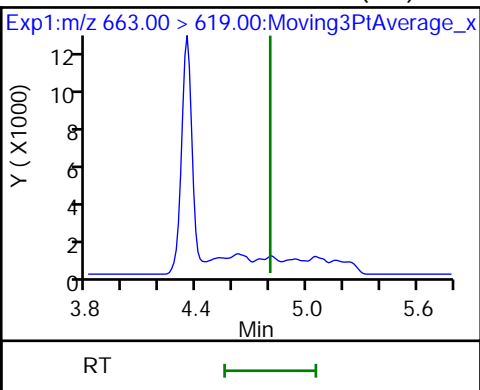
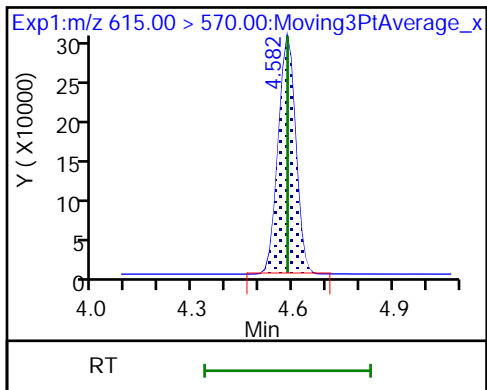
37 Perfluorododecanoic acid (ND)



D 36 13C2 PFDoA

41 Perfluorotridecanoic acid (ND)

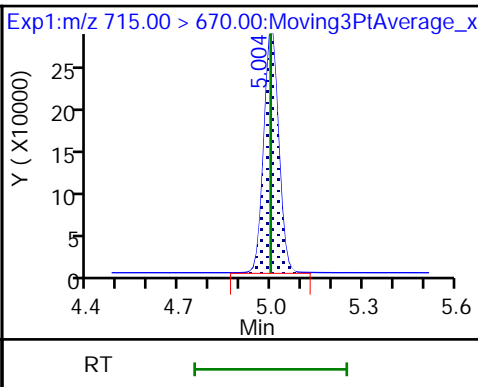
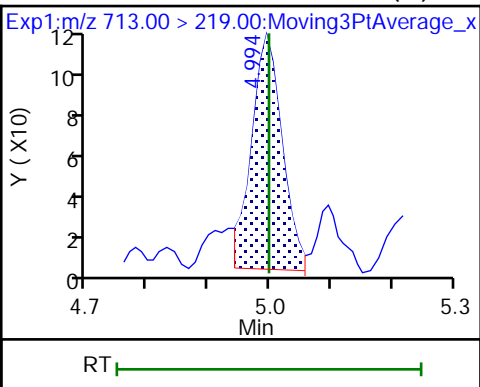
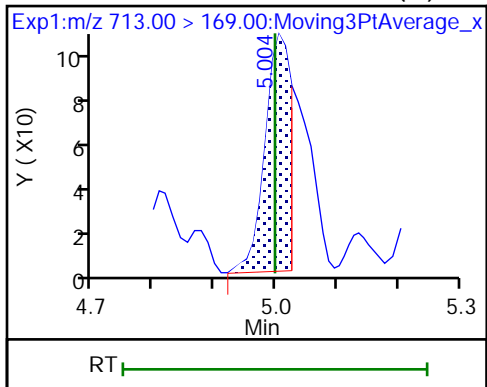
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

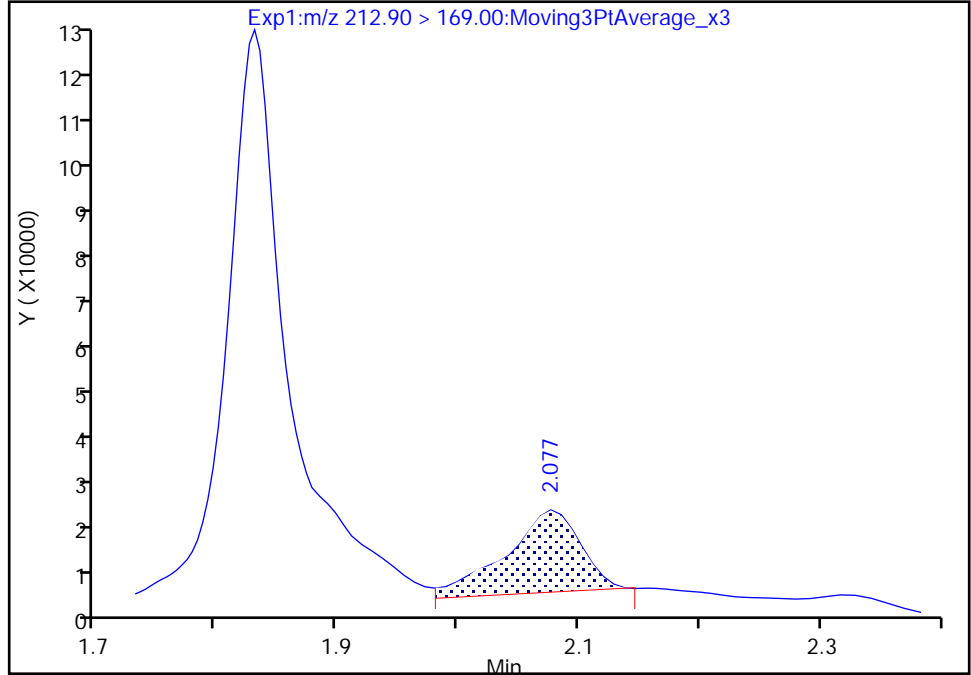
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

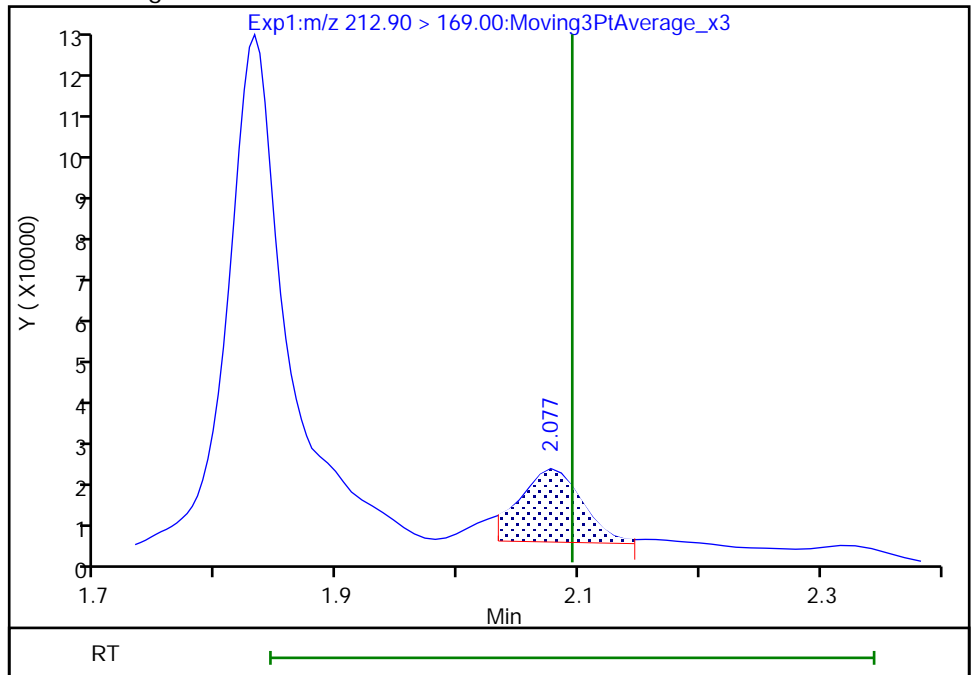
RT: 2.08
Area: 71141
Amount: 0.019525
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 57926
Amount: 0.007837
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:48:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

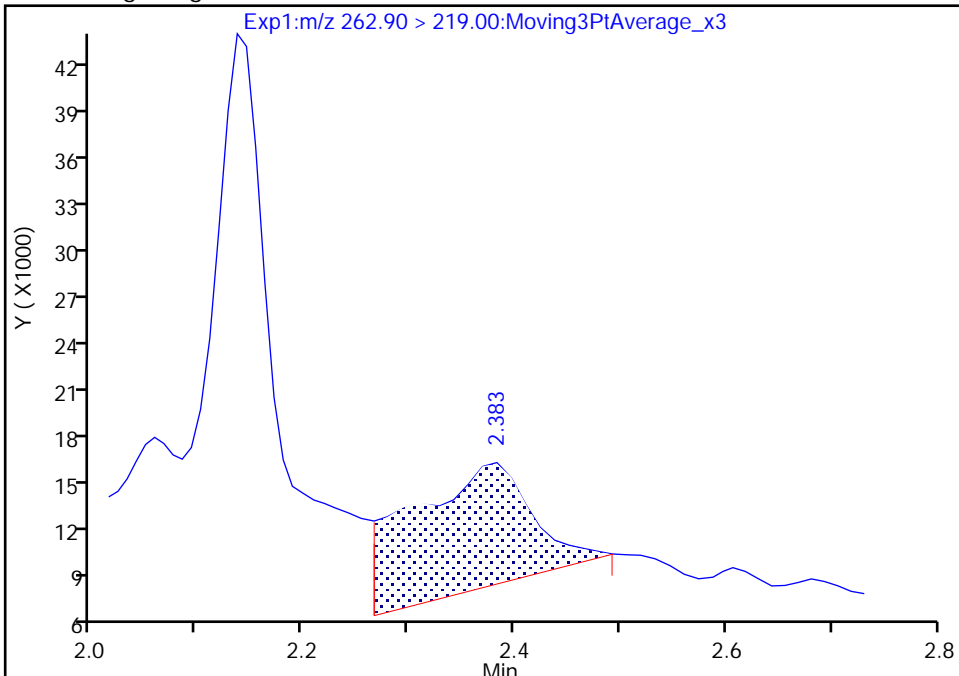
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

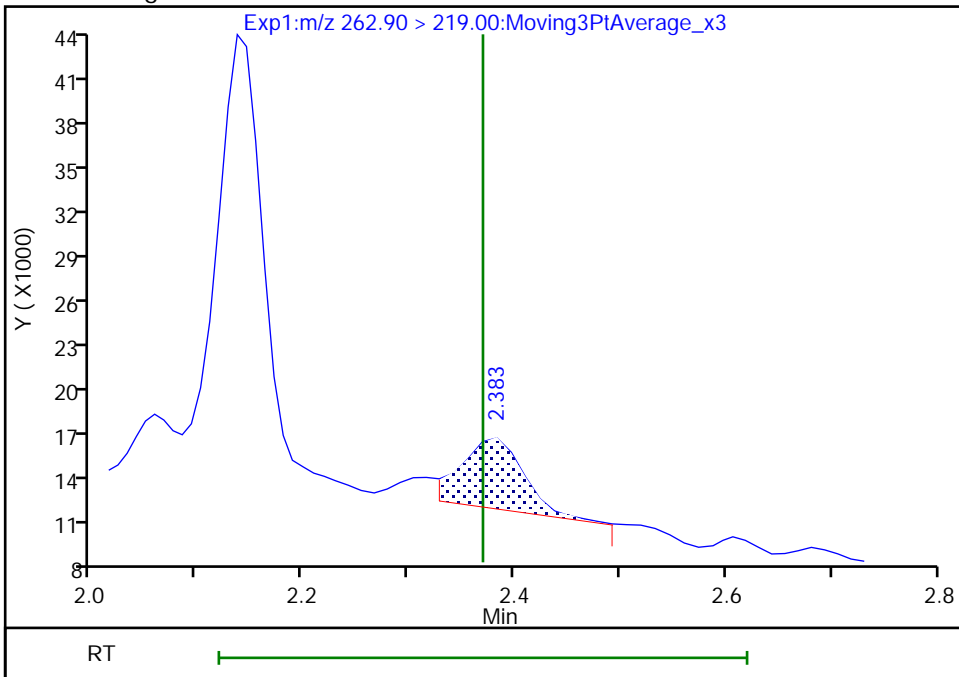
RT: 2.38
Area: 62963
Amount: 0.056059
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 18669
Amount: 0.016622
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:49:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

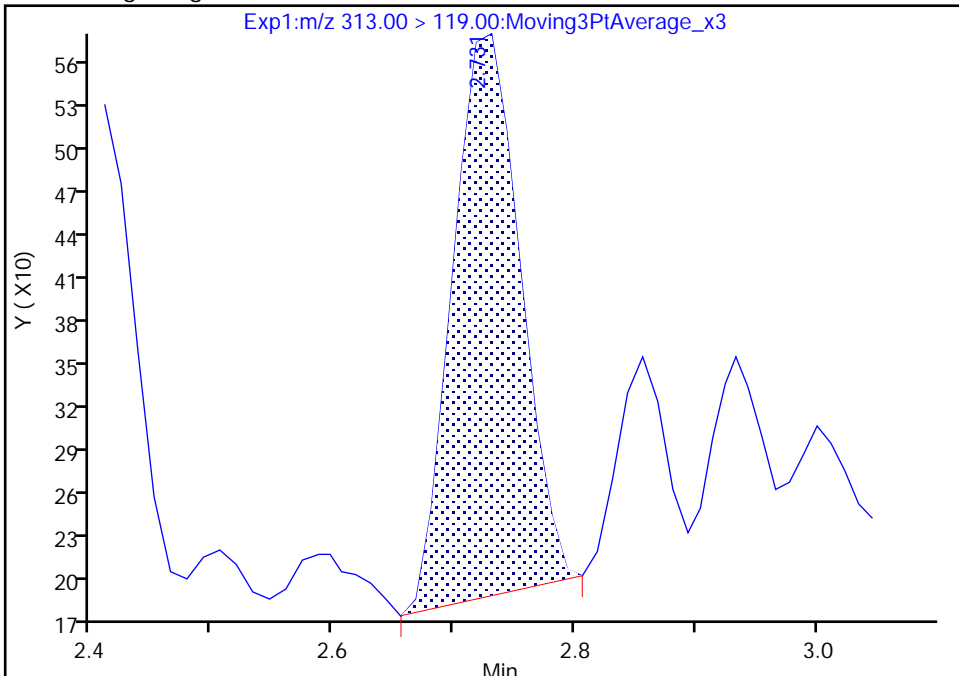
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

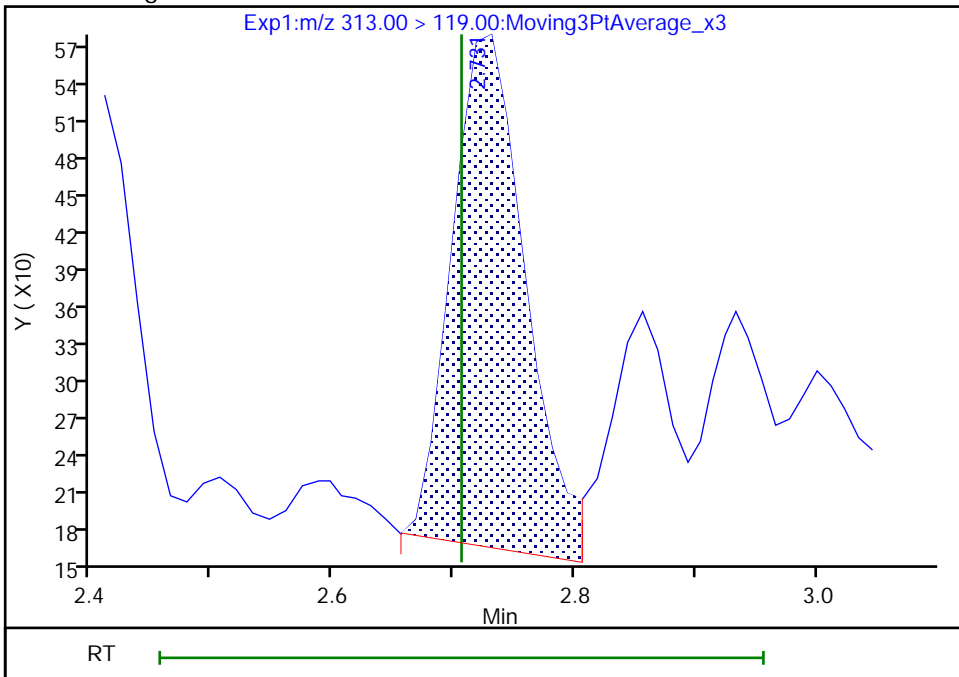
RT: 2.73
Area: 1526
Amount: 0.027333
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1751
Amount: 0.027333
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:49:57
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

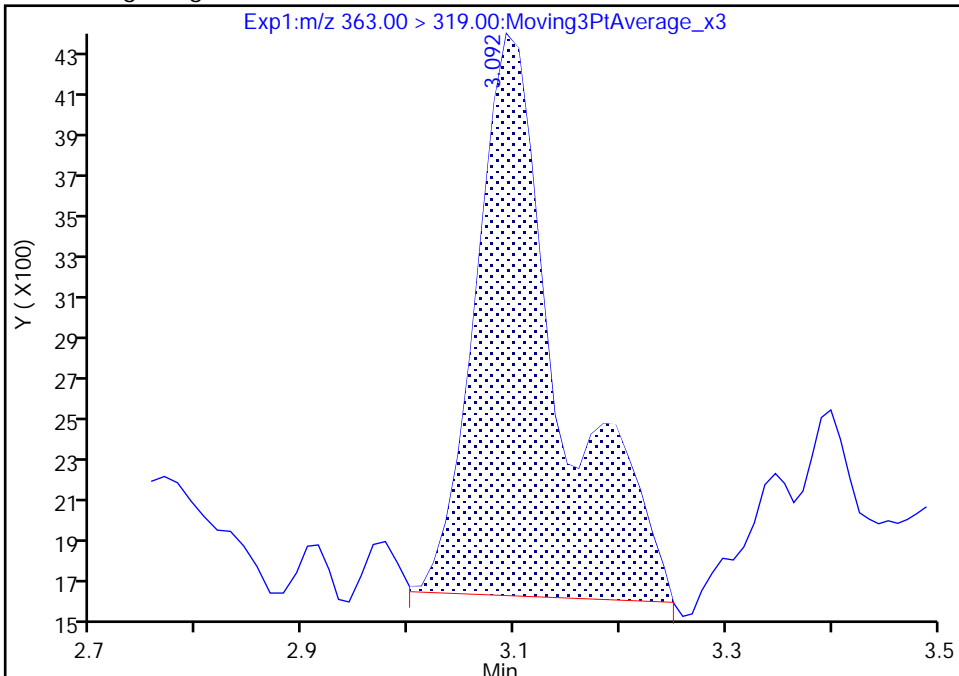
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

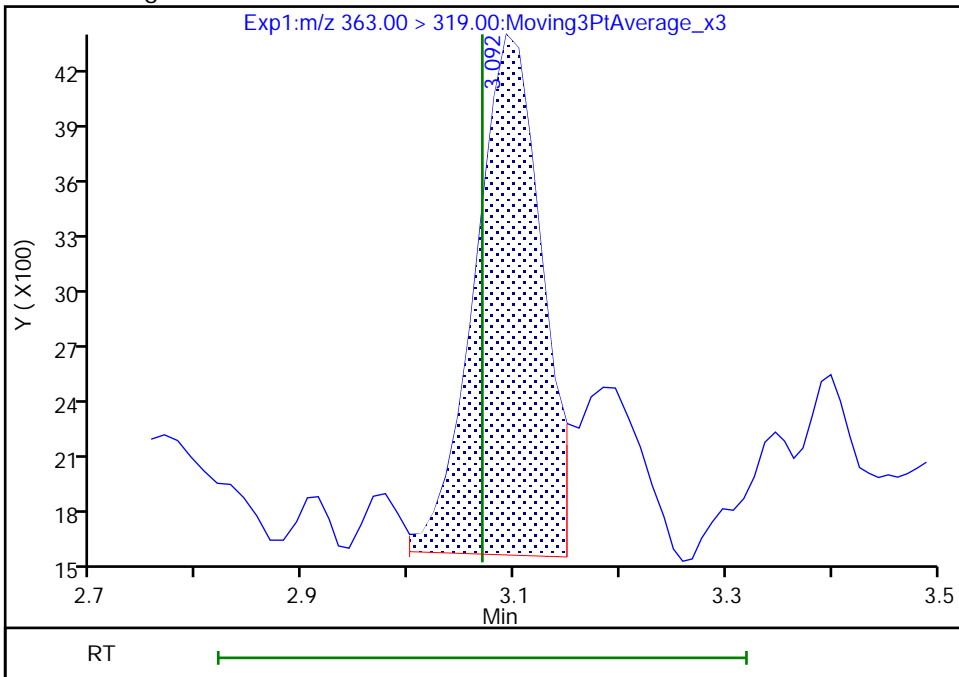
RT: 3.09
Area: 14727
Amount: 0.013677
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 11793
Amount: 0.010952
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:51:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

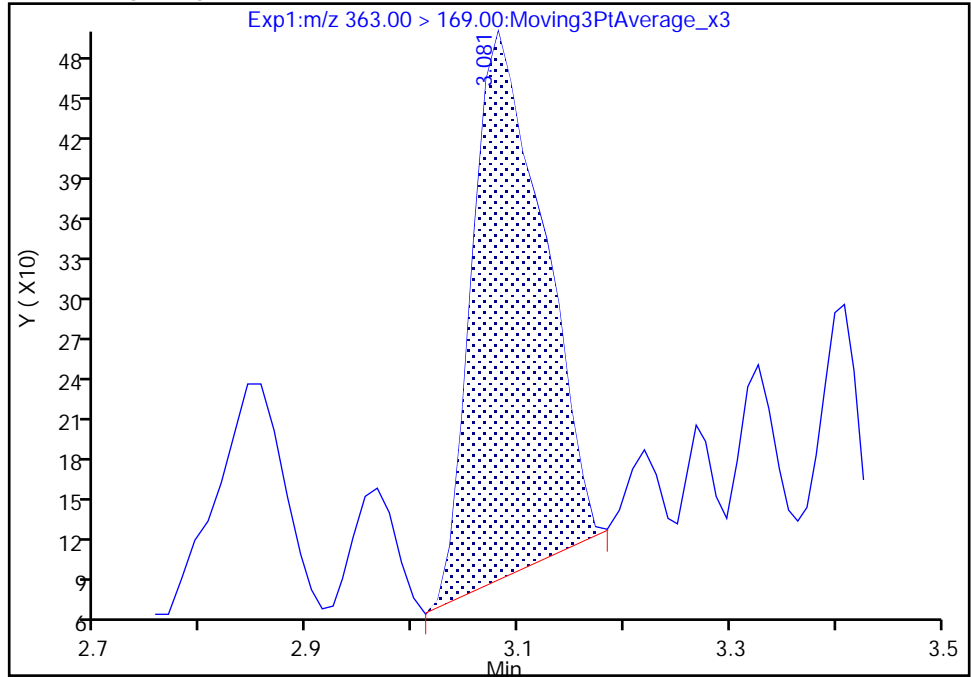
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

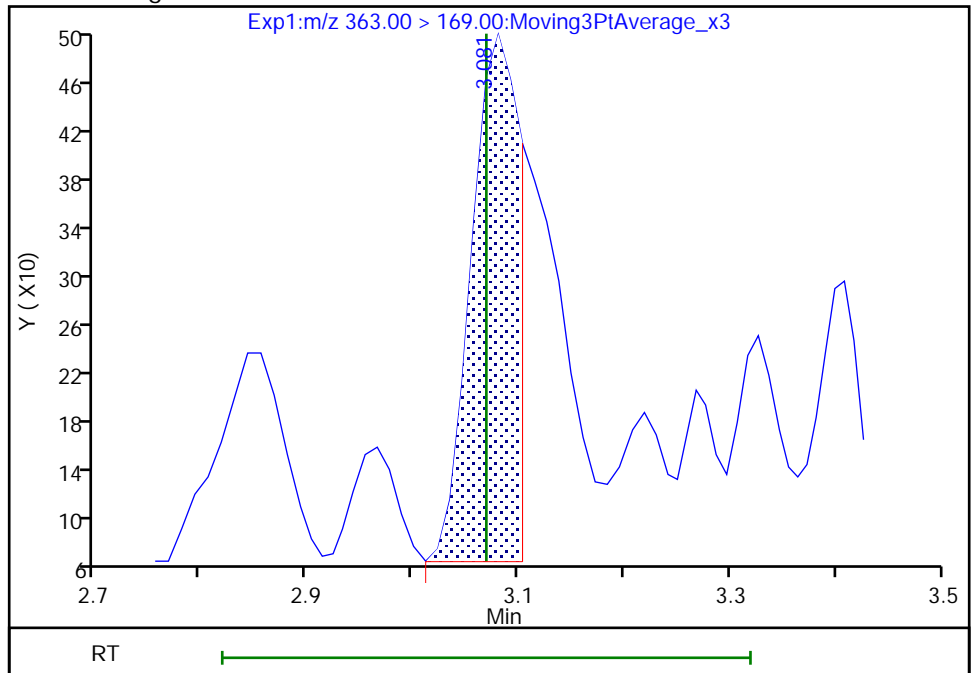
RT: 3.08
Area: 1864
Amount: 0.013677
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 1275
Amount: 0.010952
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:51:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

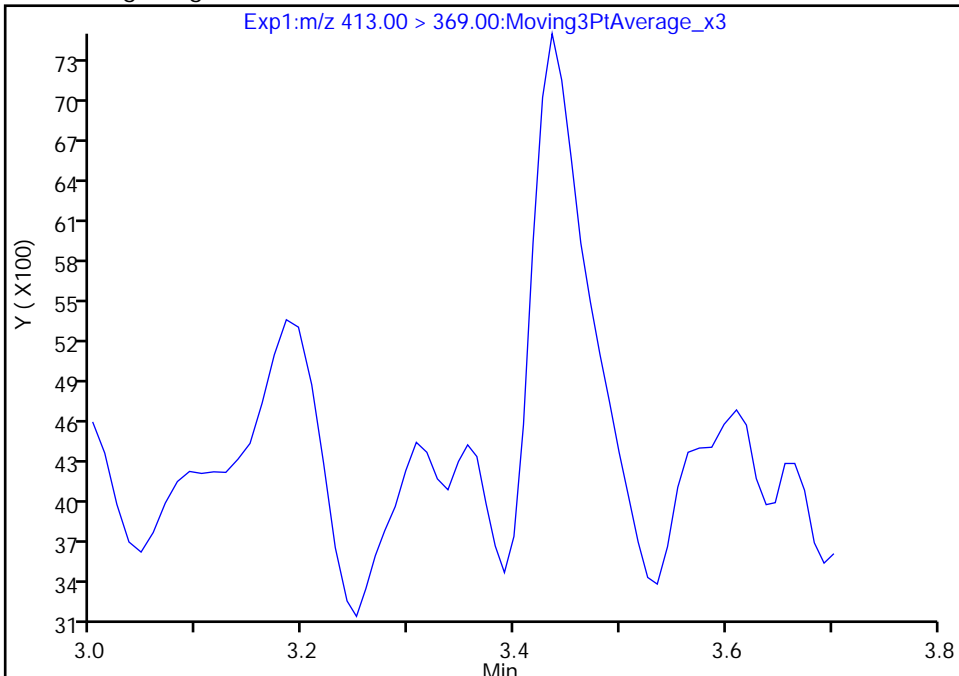
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

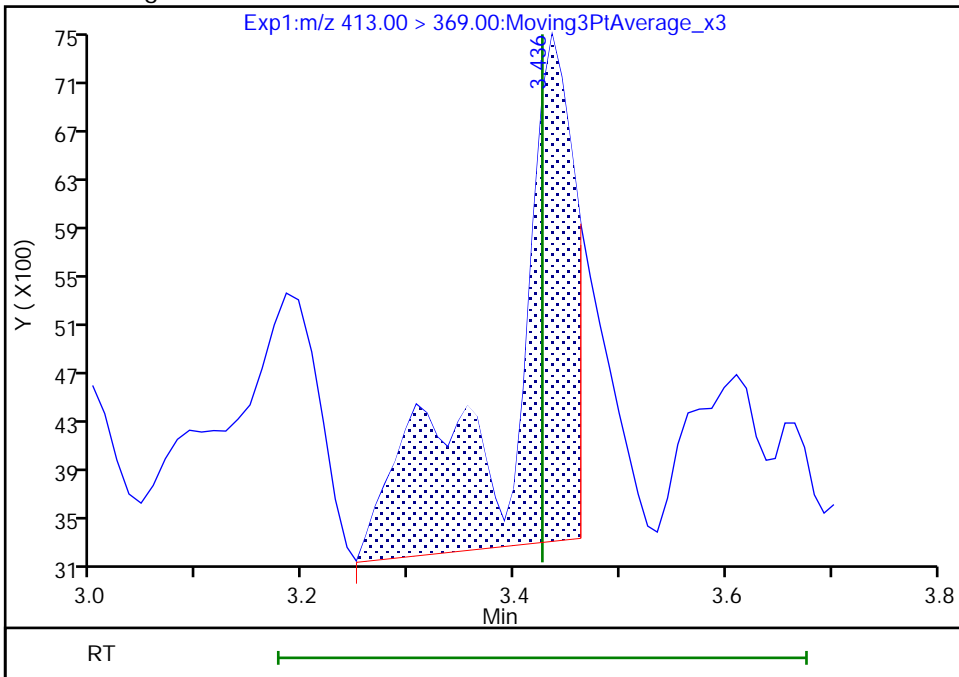
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 18221
Amount: 0.014216
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:51:47
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

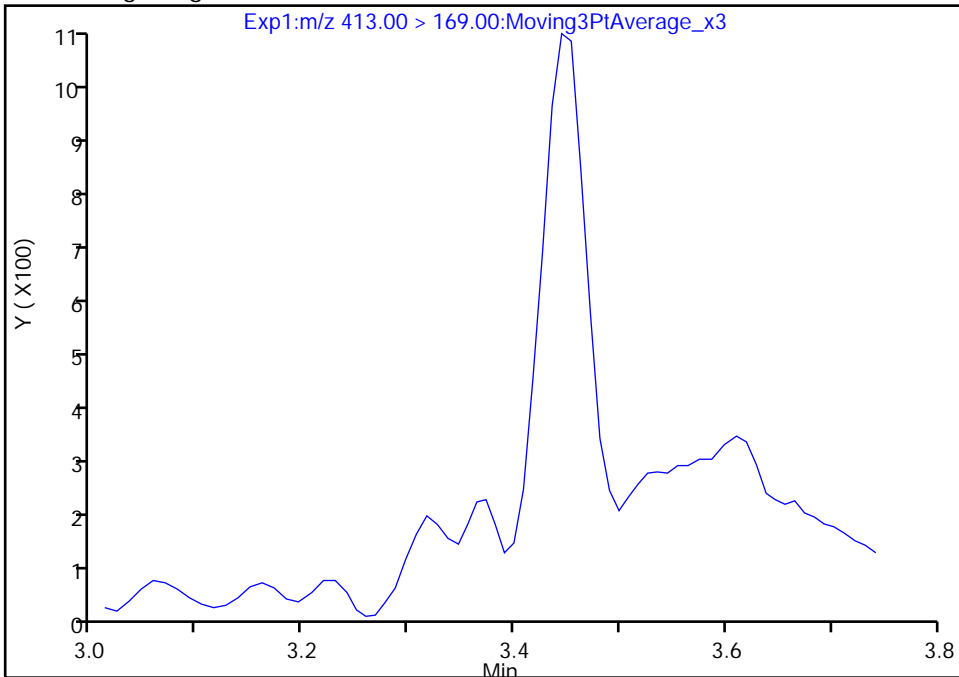
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

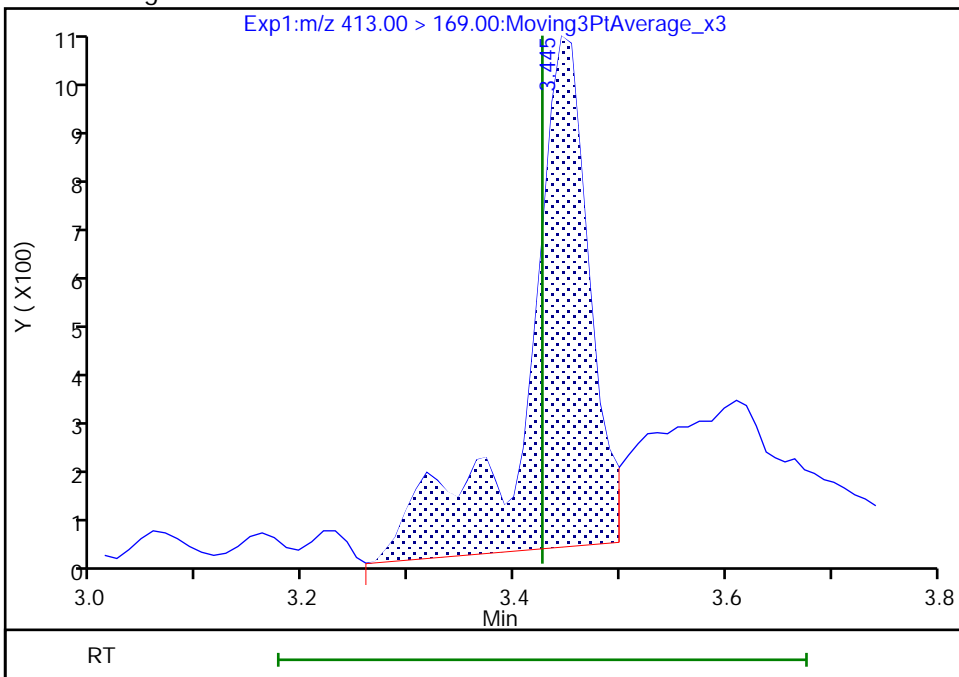
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 4040
Amount: 0.014216
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:51:50

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

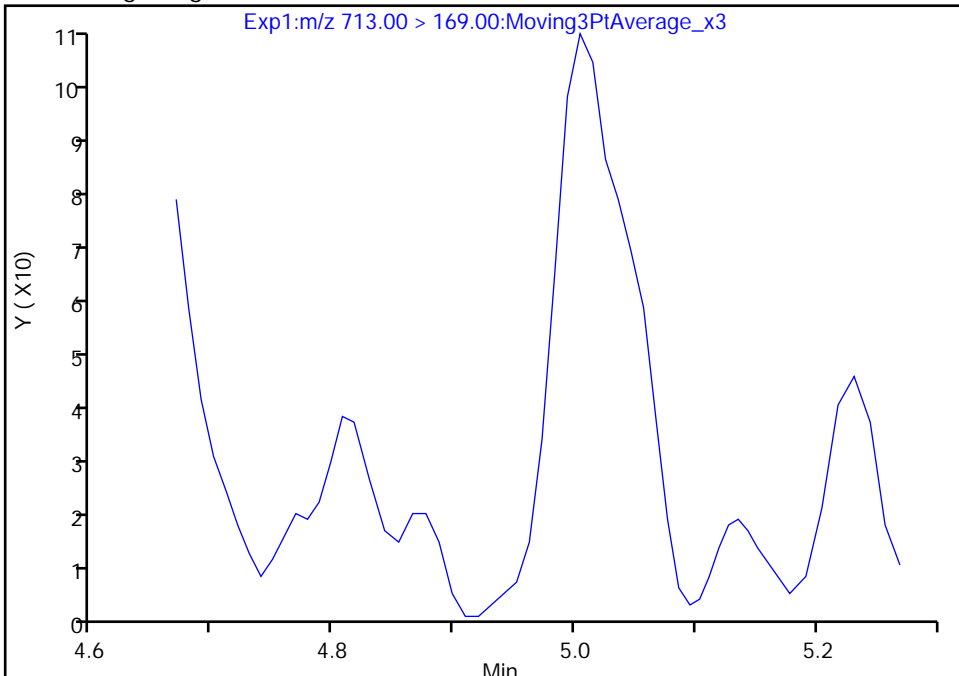
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

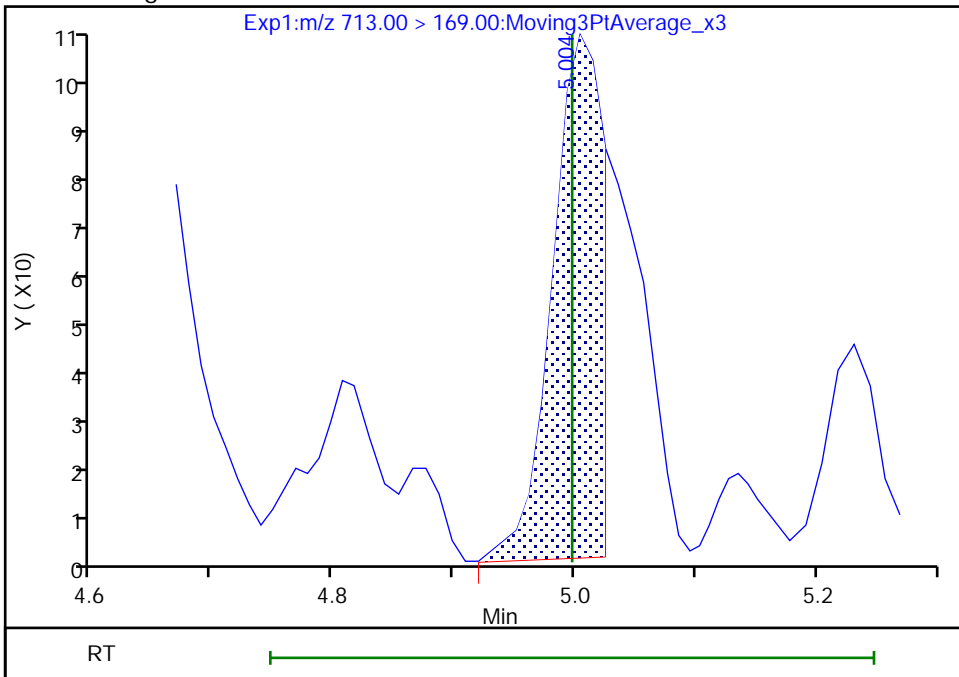
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 278
Amount: 0.002900
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:56:40
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

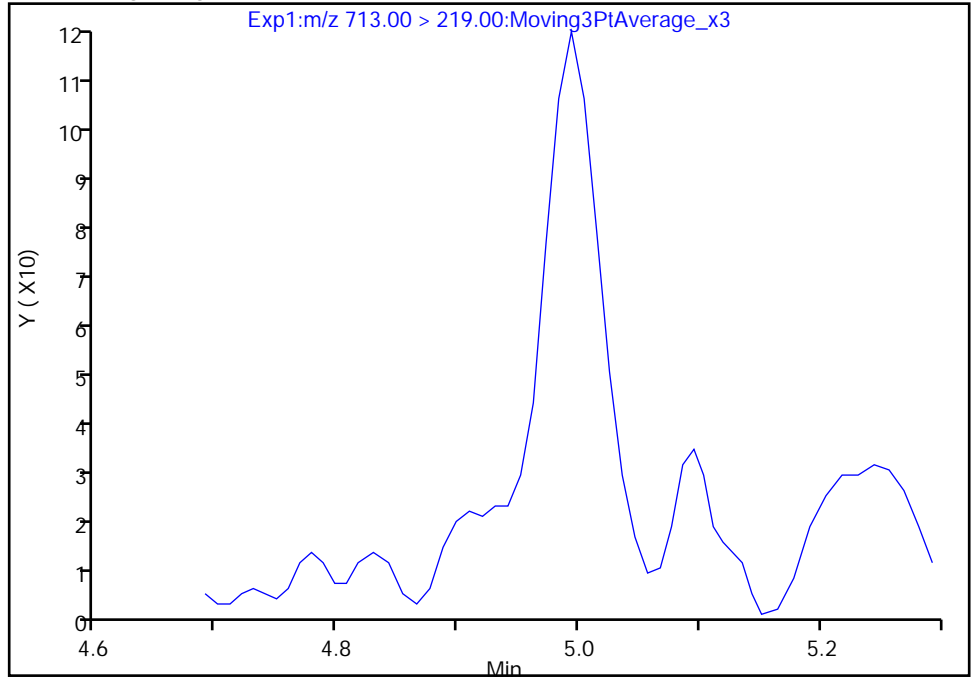
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

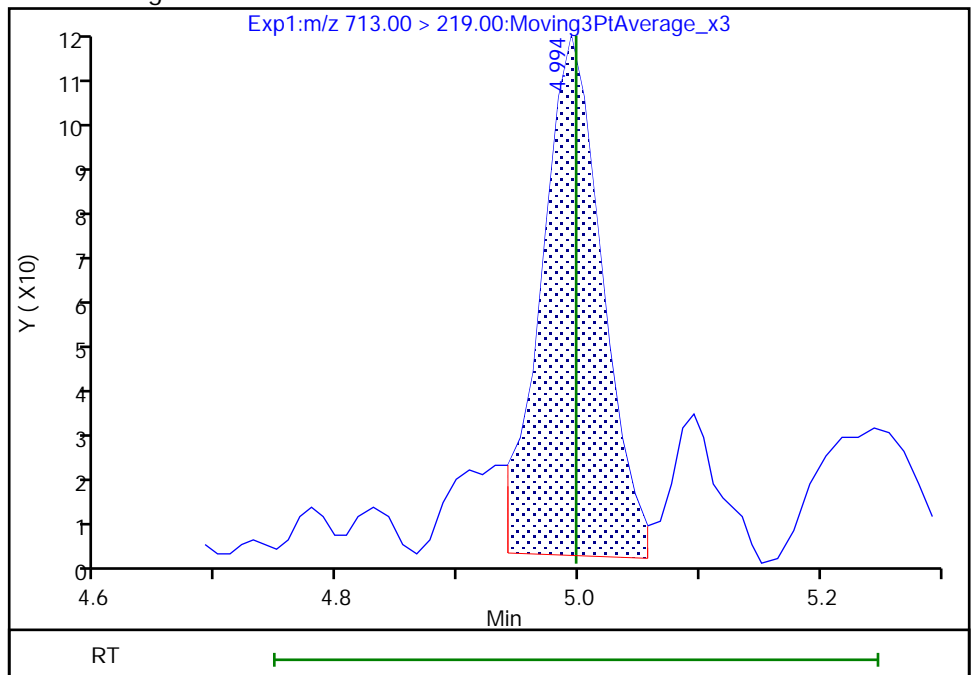
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 387
Amount: 0.002900
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:56:43

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

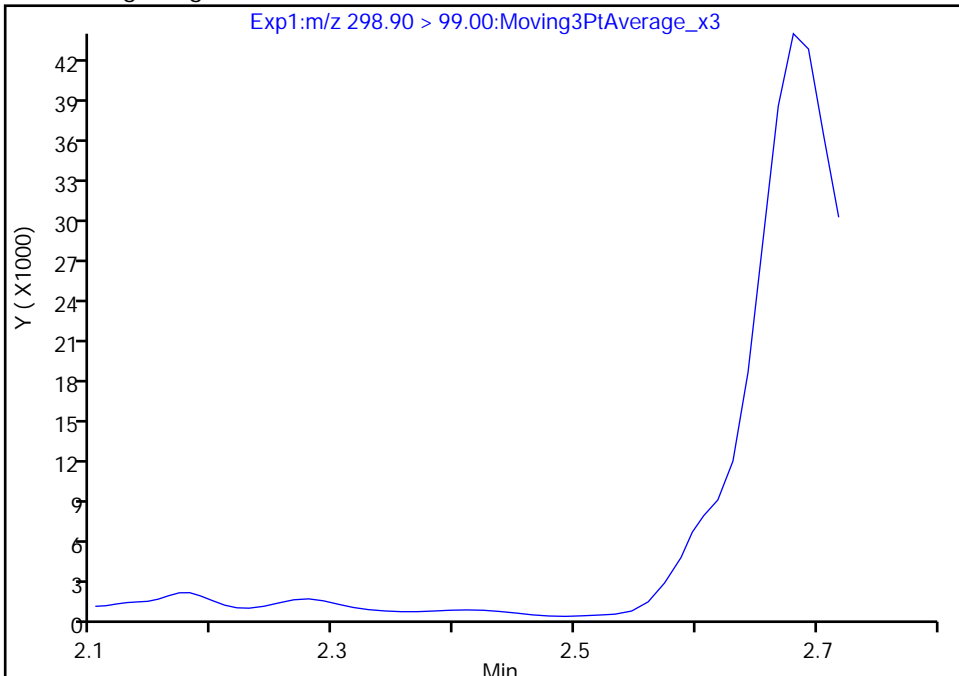
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

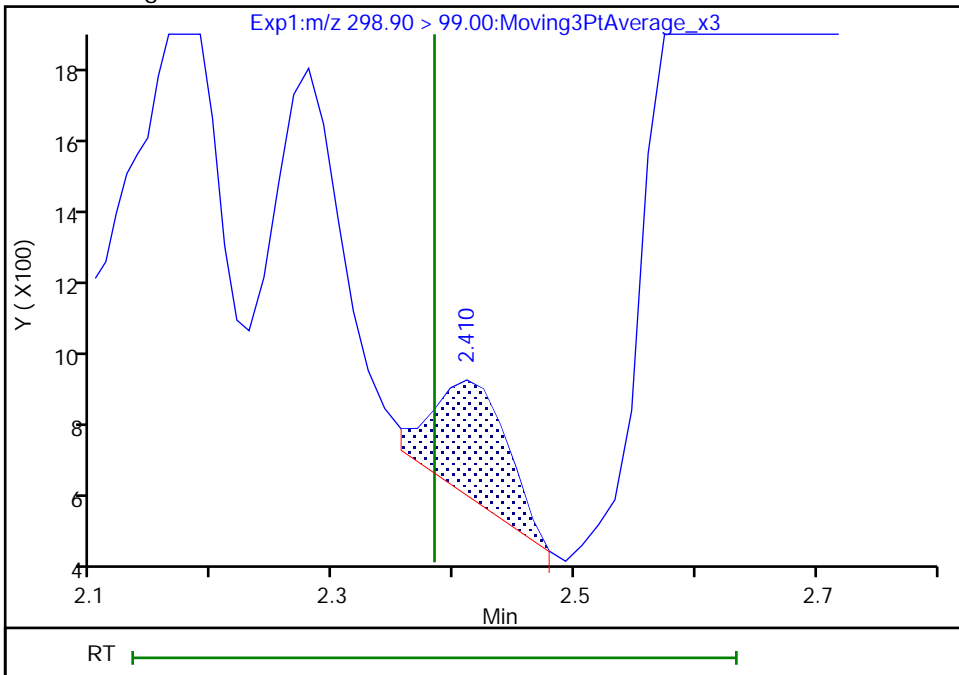
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1299
Amount: 0.001846
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:49:30
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

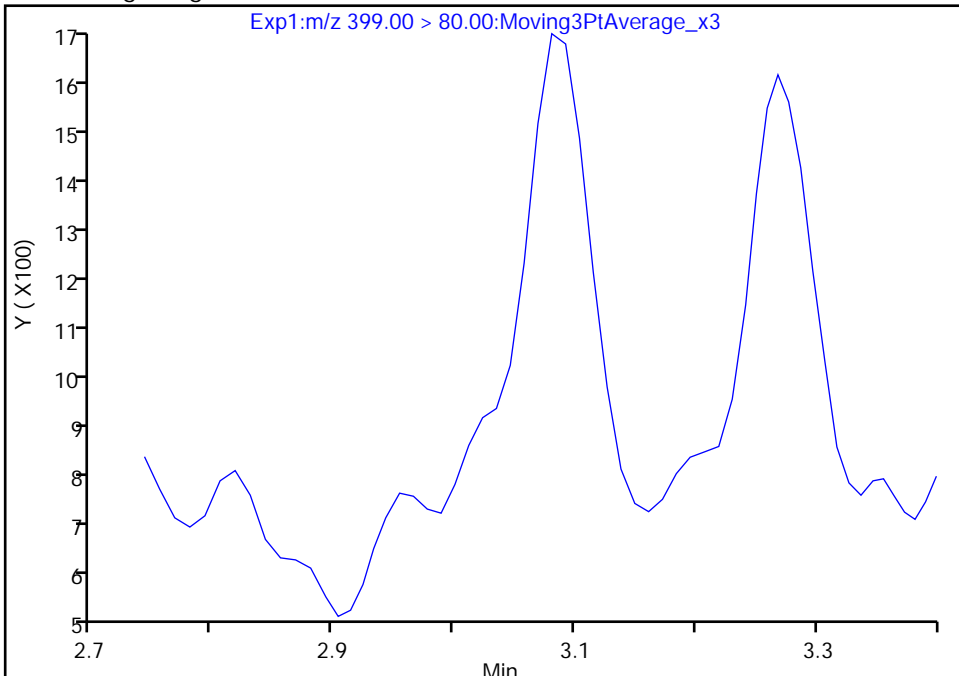
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

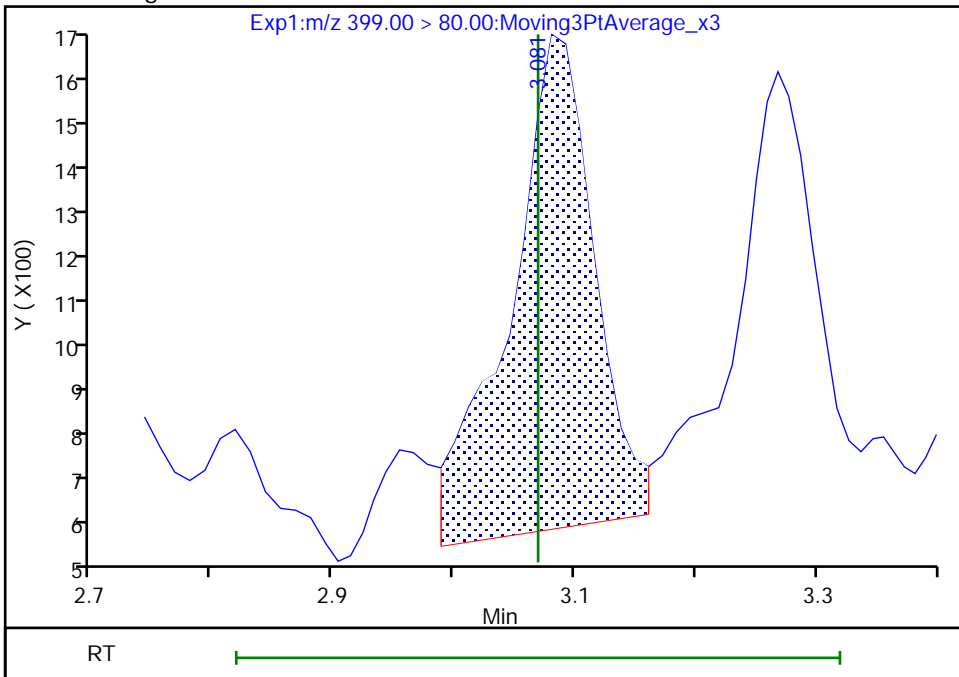
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 5182
Amount: 0.007577
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:50:22
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

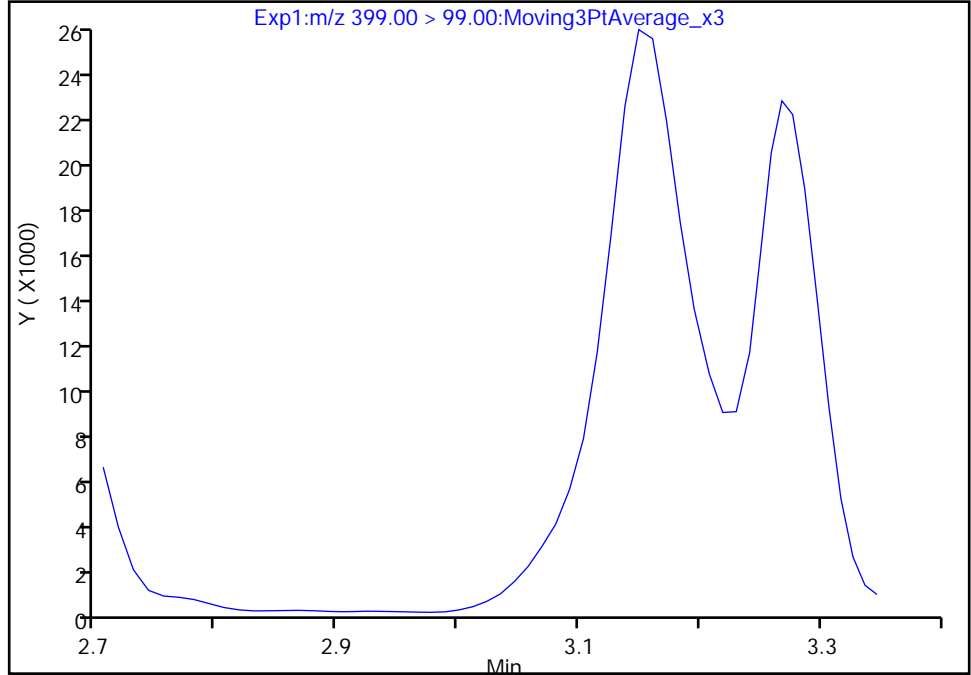
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

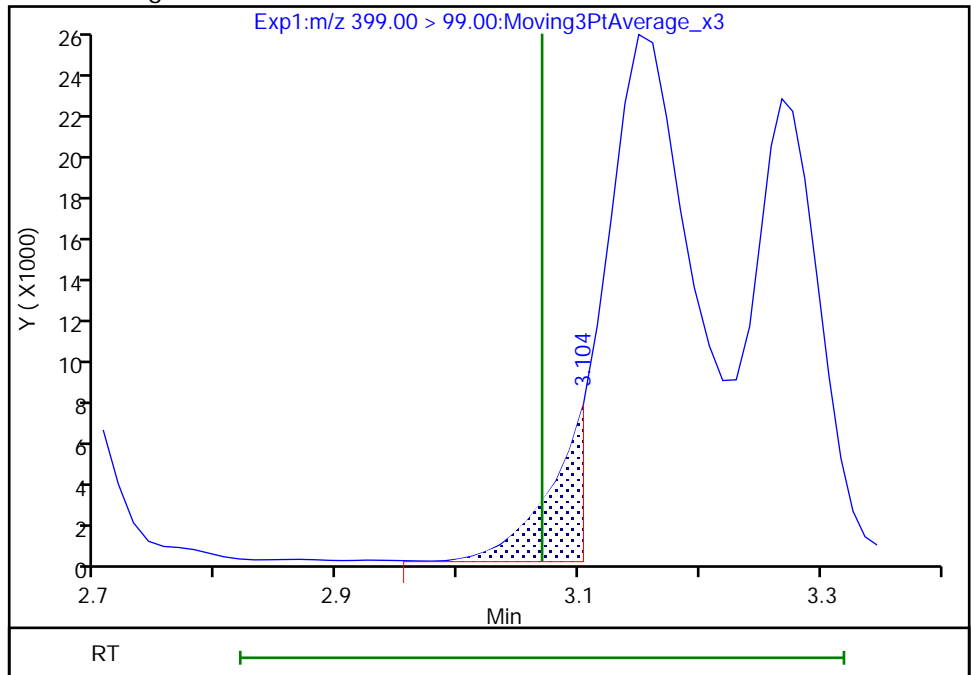
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 14081
Amount: 0.007577
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:50:36

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

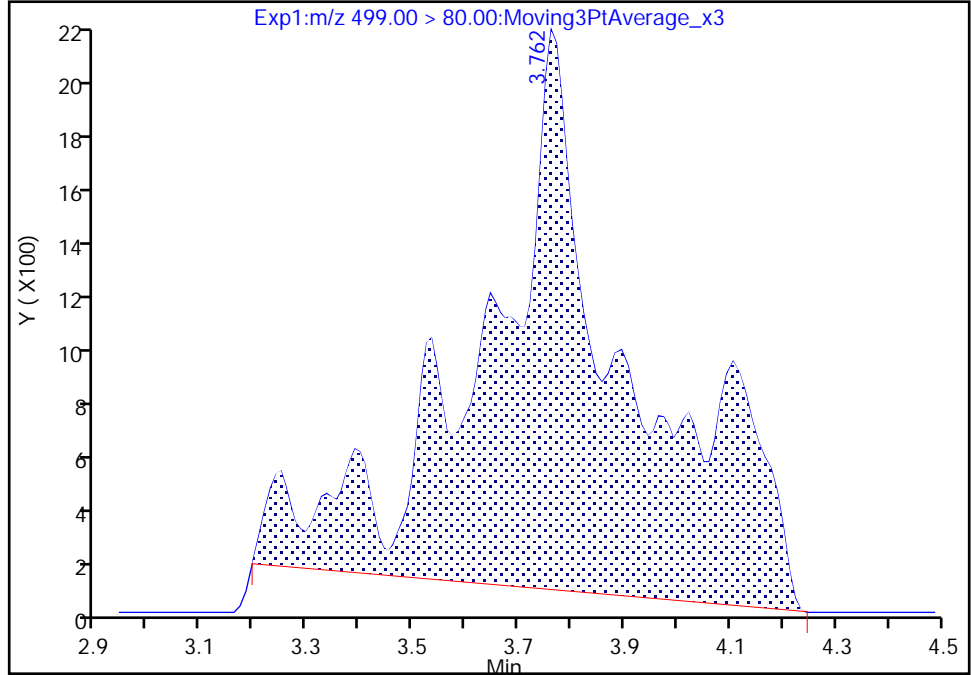
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

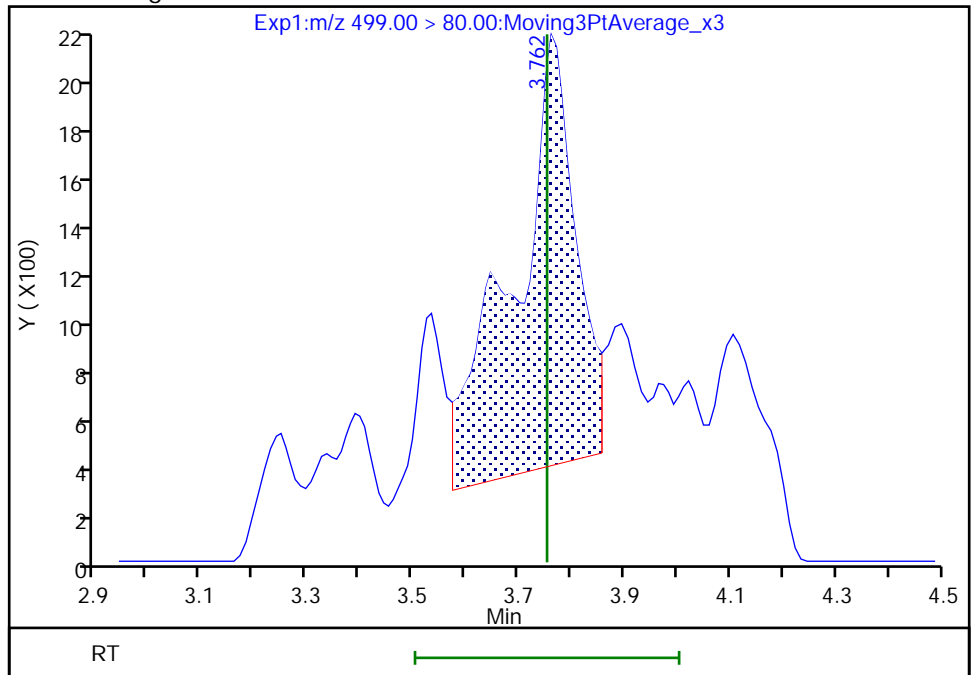
RT: 3.76
Area: 40731
Amount: 0.076002
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 14244
Amount: 0.026579
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:52:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

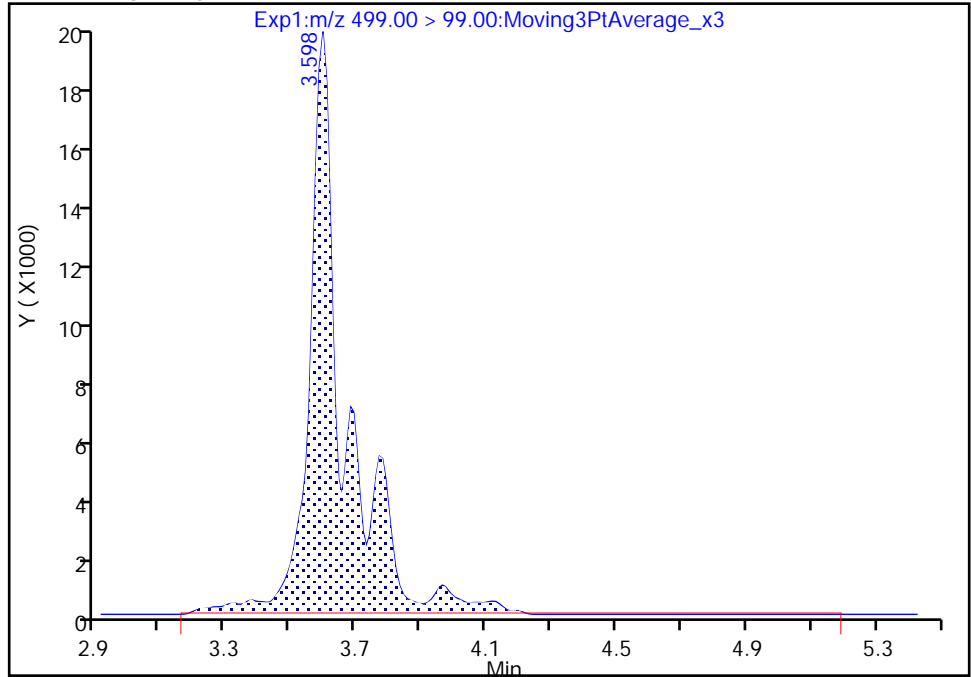
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Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

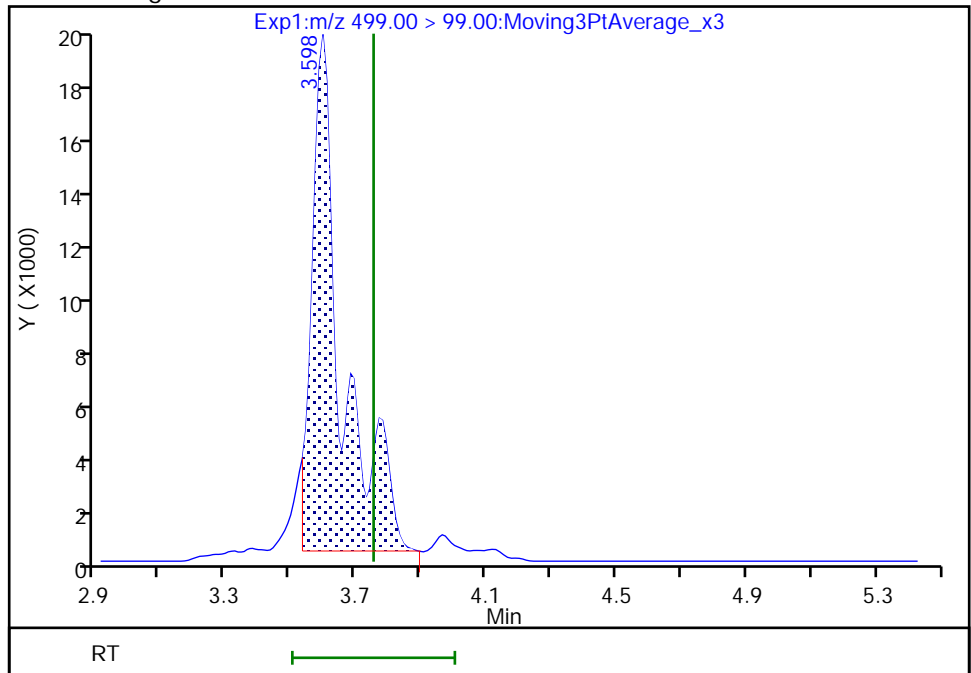
RT: 3.60
Area: 147857
Amount: 0.076002
Amount Units: ng/ml

Processing Integration Results



RT: 3.60
Area: 117411
Amount: 0.026579
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:52:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

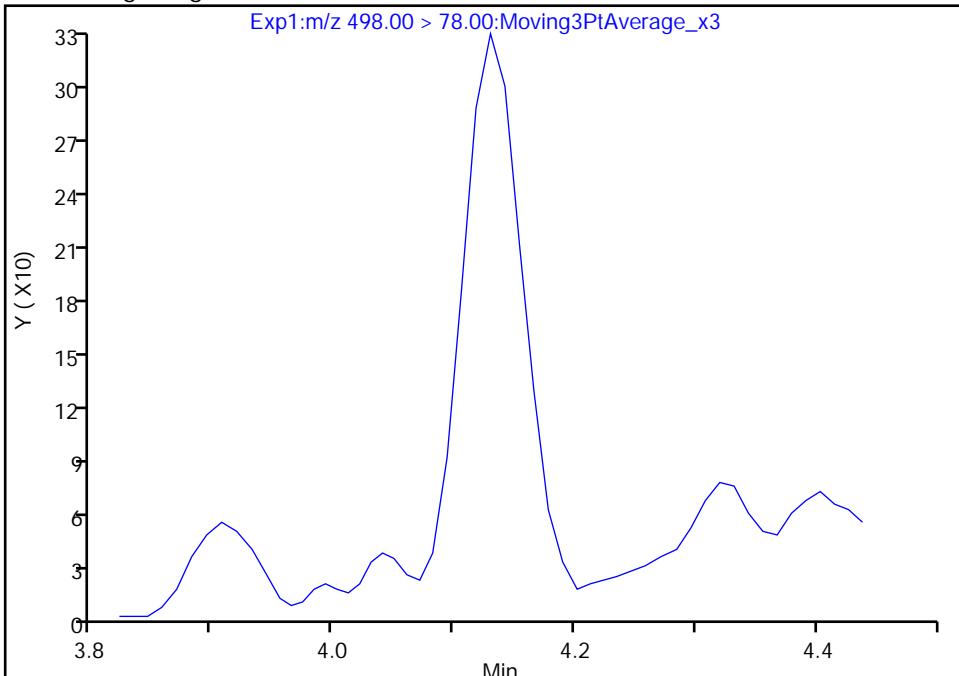
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

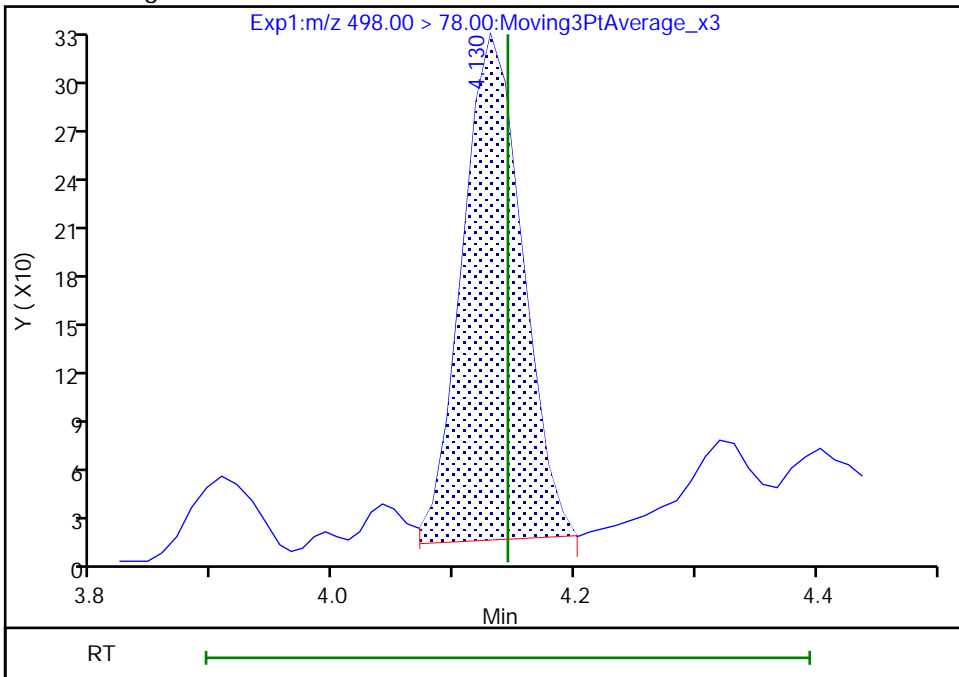
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 1075
Amount: 0.001593
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:53:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

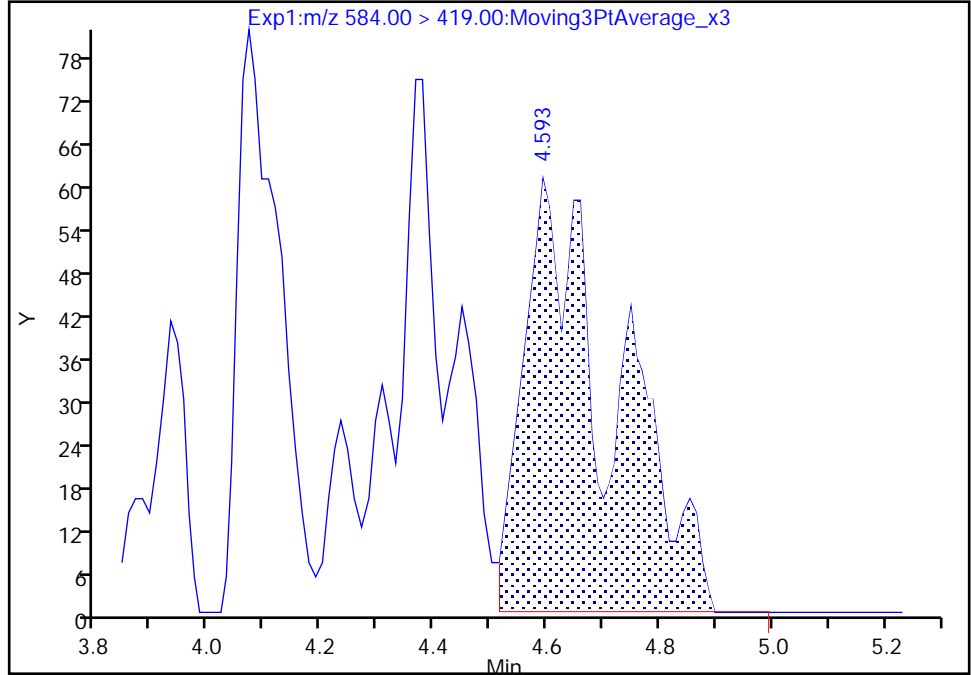
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

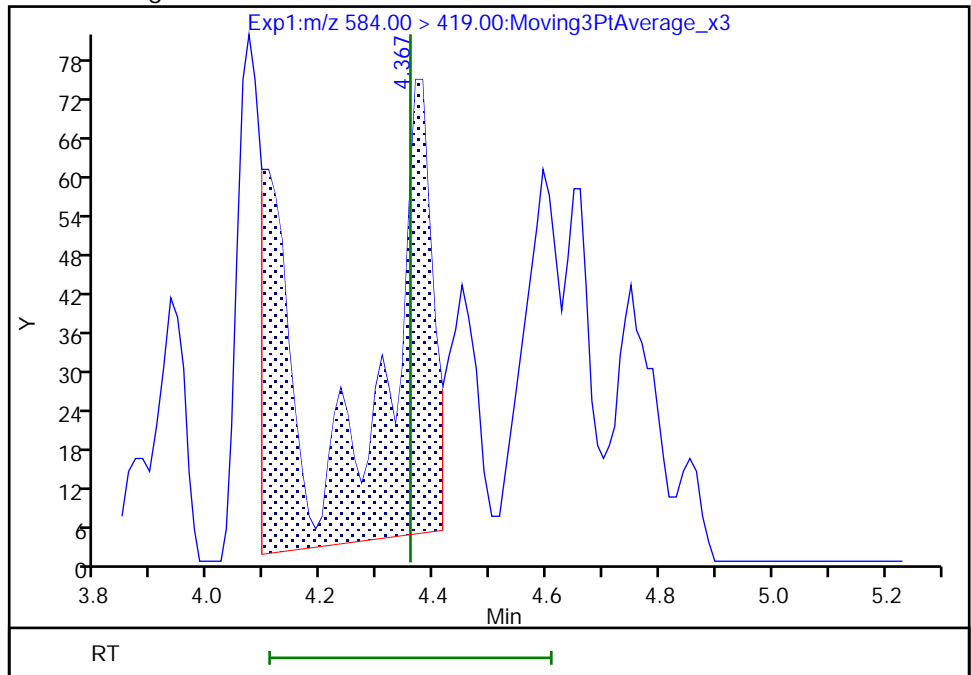
RT: 4.59
Area: 675
Amount: 0.002563
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 560
Amount: 0.002127
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:56:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

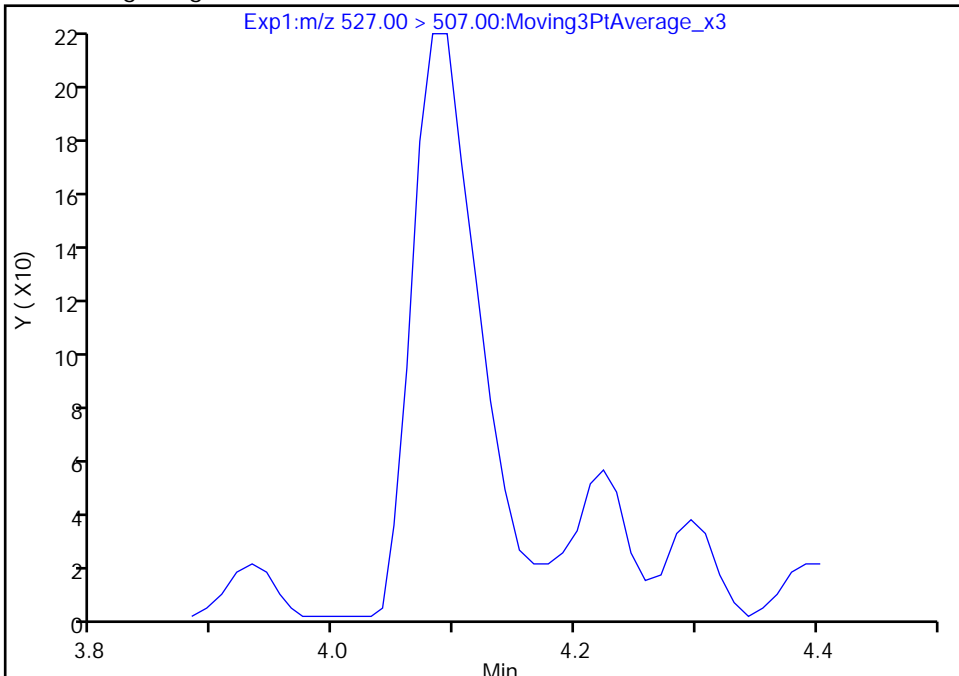
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A19.d
Injection Date: 26-Jan-2023 22:13:23 Instrument ID: LC812
Lims ID: 460-273176-A-3-A Lab Sample ID: 200-273176-3
Client ID: BCS-09-62_(17-17.5)P
Operator ID: LC812user ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

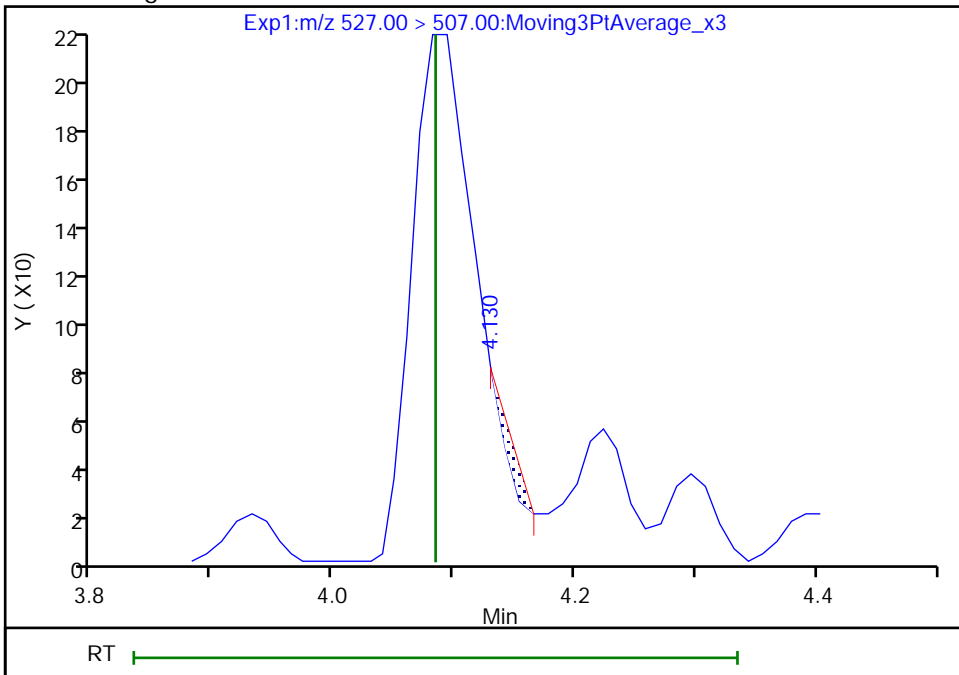
Signal: 1

Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.13
Area: 19
Amount: 0.000051
Amount Units: ng/ml

Reviewer: SJ4N, 27-Jan-2023 17:53:14
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-63_(15-15.5)P Lab Sample ID: 460-273176-4
 Matrix: Solid Lab File ID: PA230126A21.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.28(g) Date Analyzed: 01/26/2023 22:29
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 53.5 % Solids: 46.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.02	U	1.02	0.67
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.41	U	0.41	0.11
307-24-4	Perfluorohexanoic acid (PFHxA)	0.41	U	0.41	0.094
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.41	U	0.41	0.079
335-67-1	Perfluorooctanoic acid (PFOA)	0.41	U	0.41	0.12
375-95-1	Perfluorononanoic acid (PFNA)	0.41	U	0.41	0.069
335-76-2	Perfluorodecanoic acid (PFDA)	0.41	U	0.41	0.057
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.41	U	0.41	0.055
307-55-1	Perfluorododecanoic acid (PFDoA)	0.41	U	0.41	0.051
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.41	U	0.41	0.051
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.41	U	0.41	0.053
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.41	U	0.41	0.067
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.41	U	0.41	0.083
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.41	U	0.41	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.23	J	0.41	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.41	U	0.41	0.039
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.41	U	0.41	0.069
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.07	U	4.07	0.22
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.07	U	4.07	0.17
27619-97-2	6:2 FTS	4.07	U	4.07	0.12
39108-34-4	8:2 FTS	4.07	U	4.07	0.075

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-63_(15-15.5)P Lab Sample ID: 460-273176-4
 Matrix: Solid Lab File ID: PA230126A21.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.28(g) Date Analyzed: 01/26/2023 22:29
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 53.5 % Solids: 46.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	58		50-150
STL01892	13C4 PFHpA	72		50-150
STL00990	13C4 PFOA	76		50-150
STL00991	13C4 PFOS	67		50-150
STL00995	13C5 PFNA	78		50-150
STL00992	13C4 PFBA	73		50-150
STL00993	13C2 PFHxA	75		50-150
STL00996	13C2 PFDA	73		50-150
STL00997	13C2 PFUnA	70		50-150
STL00998	13C2 PFDoA	68		50-150
STL01056	13C8 FOSA	57		50-150
STL01893	13C5 PFPeA	68		50-150
STL02116	13C2 PFTeDA	79		50-150
STL02118	d3-NMeFOSAA	83		50-150
STL02117	d5-NEtFOSAA	93		50-150
STL02279	M2-6:2 FTS	83		50-150
STL02280	M2-8:2 FTS	102		50-150
STL02337	13C3 PFBS	62		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A21.d
 Lims ID: 460-273176-A-4-A
 Client ID: BCS-09-63_(15-15.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 22:29:41 ALS Bottle#: 18 Worklist Smp#: 21
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-4-A
 Misc. Info.: 200-0054135-021 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:40:09 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: khanphomeea Date: 27-Jan-2023 12:00:39
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.603	1450617	0.9113	72.9	9341	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.004	52886	0.004707		4.0		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1092745	0.8492	67.9	2915	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	22756	0.0227		0.4		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1024122	0.7250	62.4	65570	
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.397	2.384	0.013	1.000	1390	0.001473	Target=2.10	0.4		RM
298.90 > 99.00	2.397	2.384	0.013	1.000	2014		0.69(1.05-3.15)	0.1		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.778	112631	0.9861	84.5	48.6	M
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.789	1251314	0.9359	74.9	5377	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.717	2.706	0.011	1.000	23053	0.0219	Target=13.16	2.0		M
313.00 > 119.00	2.717	2.706	0.011	1.000	1330		17.33(6.58-19.74)	1.0		M
D 64 13C3 HFPO-DA	287.00 > 169.00	2.830	2.806	0.024	0.822	208698	0.9009	72.1	2994	
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.895	699477	0.6805	57.5	4226	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.080	3.069	0.011	1.000	5860	0.009025	Target=3.18	2.0		RM
399.00 > 99.00	3.091	3.069	0.022	1.004	7194		0.81(1.59-4.77)			M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 9 13C4 PFHpA										
367.00 > 322.00	3.080	3.069	0.011	0.895	1201159	0.8973		71.8	5889	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.004	6752	0.006598	Target=4.10		0.7	
363.00 > 169.00	3.080	3.069	0.011	1.000	1807		3.74(2.05-6.16)		3.7	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.425	3.417	0.008	0.995	160397	0.9899		83.4	110	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.434	3.417	0.017	1.003	2103	0.006799			2.8	M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1344626	0.9481		75.8	6154	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1730668	1.25			10156	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.443	3.426	0.017	1.000	14473	0.0124	Target=2.71		1.0	M
413.00 > 169.00	3.443	3.426	0.017	1.000	3667		3.95(1.36-4.07)		6.9	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	498165	0.7971		66.7	346	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.753	3.754	-0.001	1.000	28808	0.0569	Target=4.23		9.7	RM
499.00 > 99.00	3.597	3.754	-0.157	0.958	121955		0.24(2.11-6.34)		33.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1344609	0.9731		77.8	5338	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1302060	0.9186		73.5	5986	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	247530	1.22		102	109	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.084	4.085	-0.001	1.000	1318	0.003515			20.1	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.132	4.144	-0.012	1.000	3186	0.004808			21.4	M
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.200	823538	0.7149		57.2	3583	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.215	4.226	-0.011	1.224	289342	1.04		83.1	1525	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.225	4.226	-0.001	1.003	1607	0.007700			8.2	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1066706	0.8719		69.8	4299	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	1217	0.005254			5.9	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	311617	1.16		93.1	690	
D 36 13C2 PFDoA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1041454	0.8490		67.9	5104	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1036016	0.9819		78.6	5713	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.360	5.362	-0.002	1.000	10369	-0.001677	Target=6.74		3.2	
813.00 > 169.00	5.360	5.362	-0.002	1.000	1521		6.82(3.37-10.11)		23.7	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1006881	0.7787		62.3	4787	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A21.d

Injection Date: 26-Jan-2023 22:29:41

Instrument ID: LC812

Lims ID: 460-273176-A-4-A

Lab Sample ID: 200-273176-4

Client ID: BCS-09-63_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 18

Worklist Smp#: 21

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

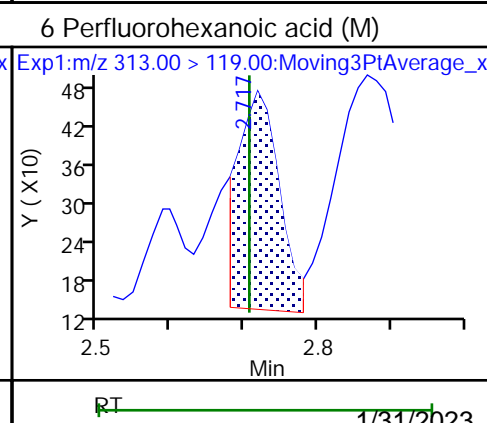
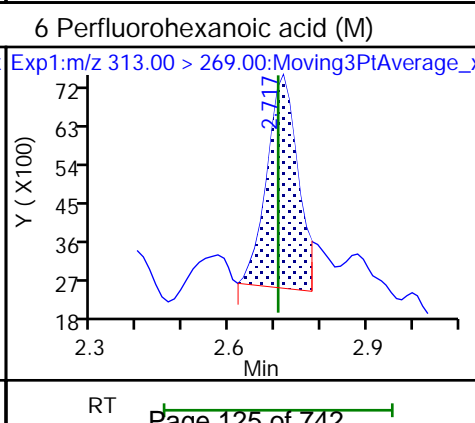
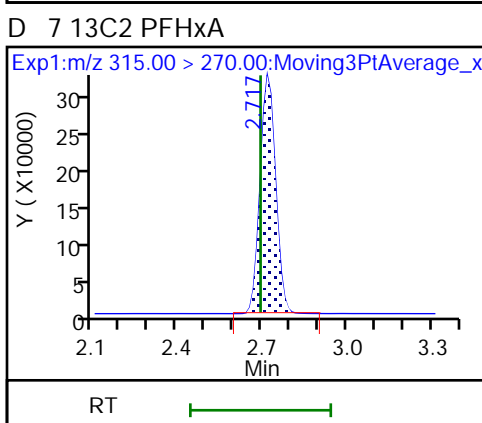
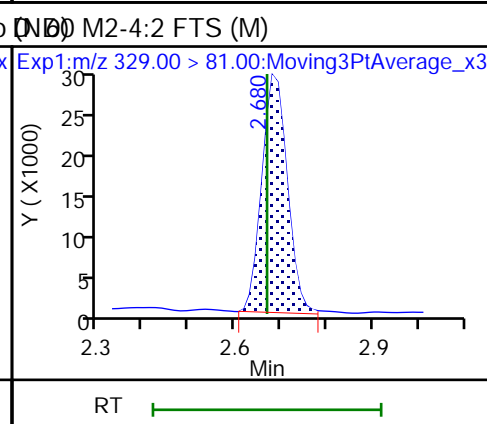
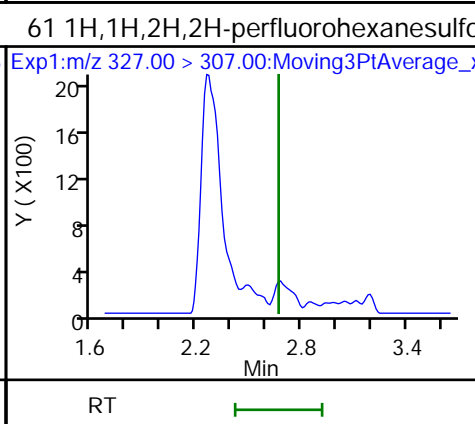
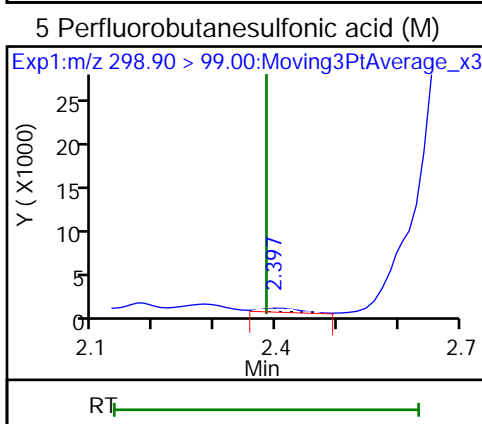
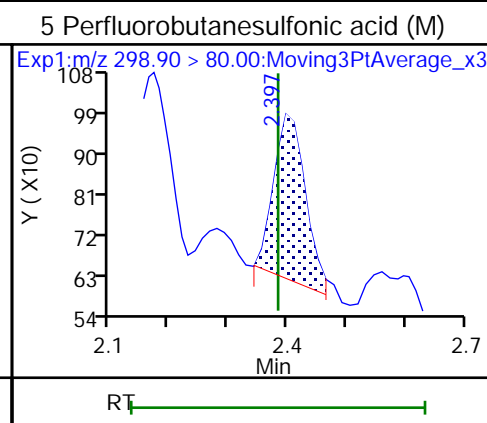
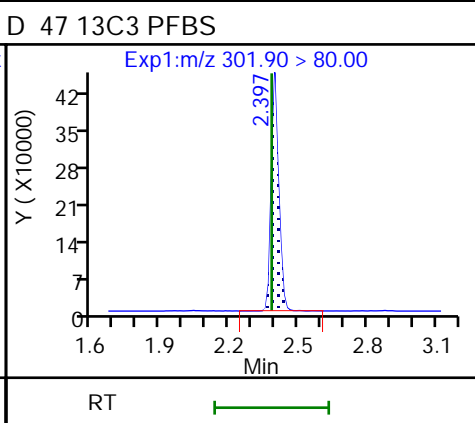
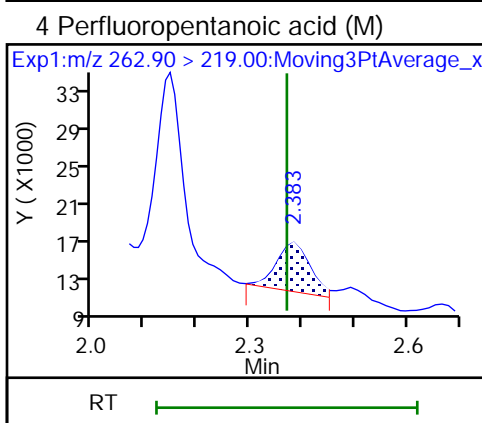
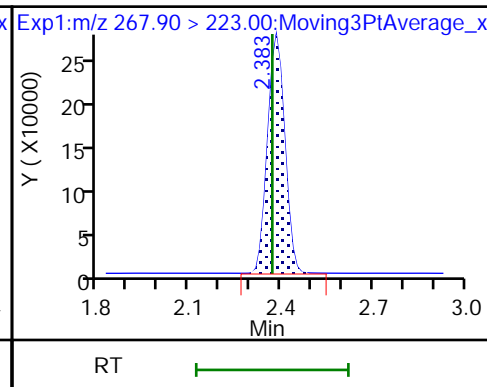
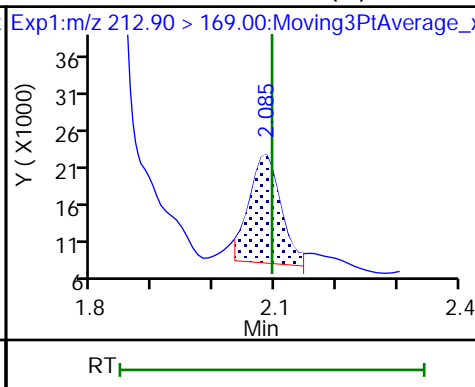
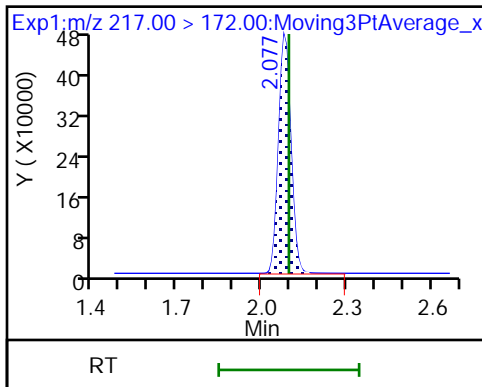
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

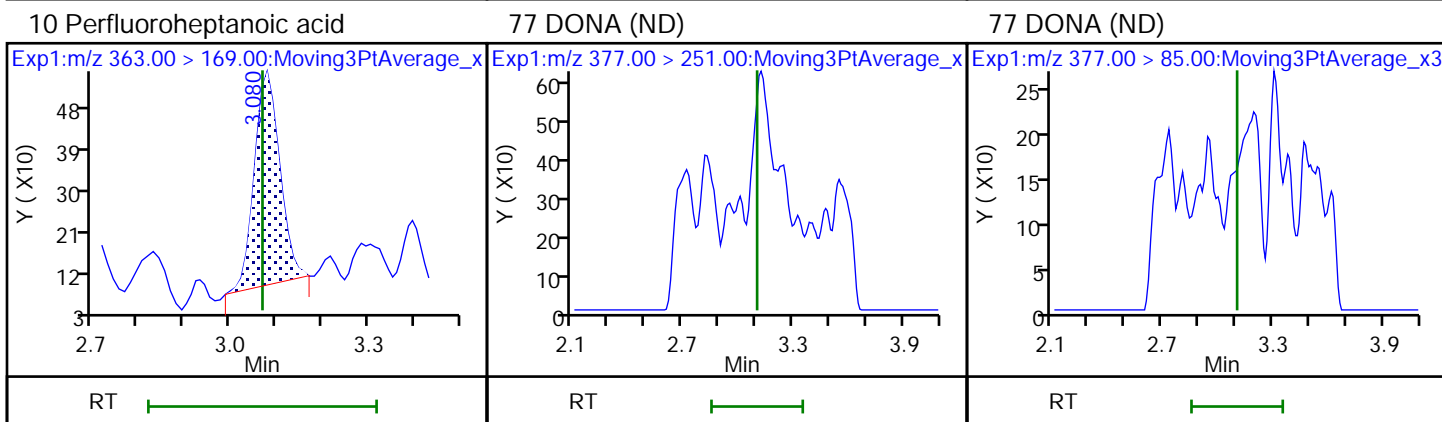
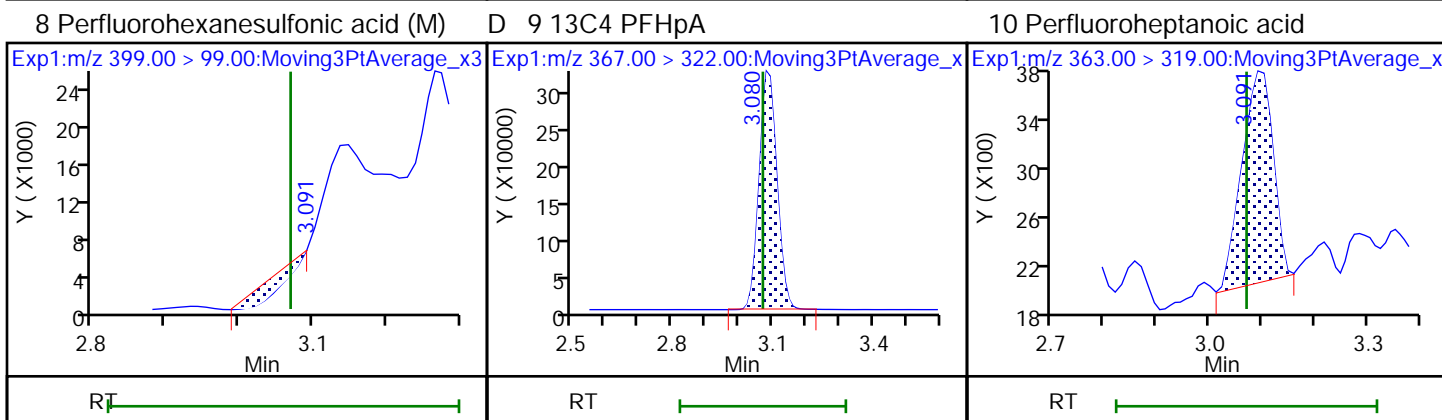
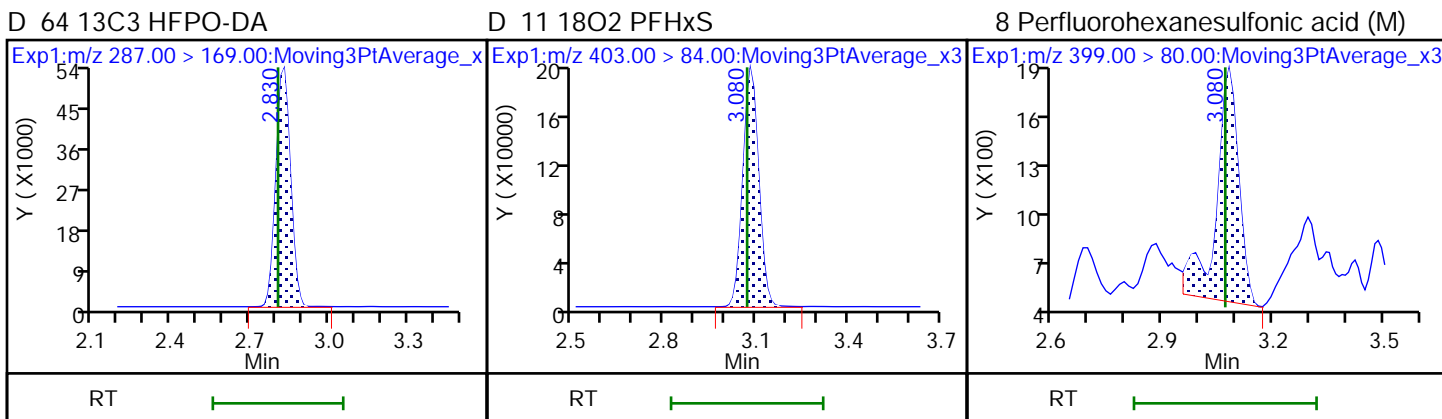
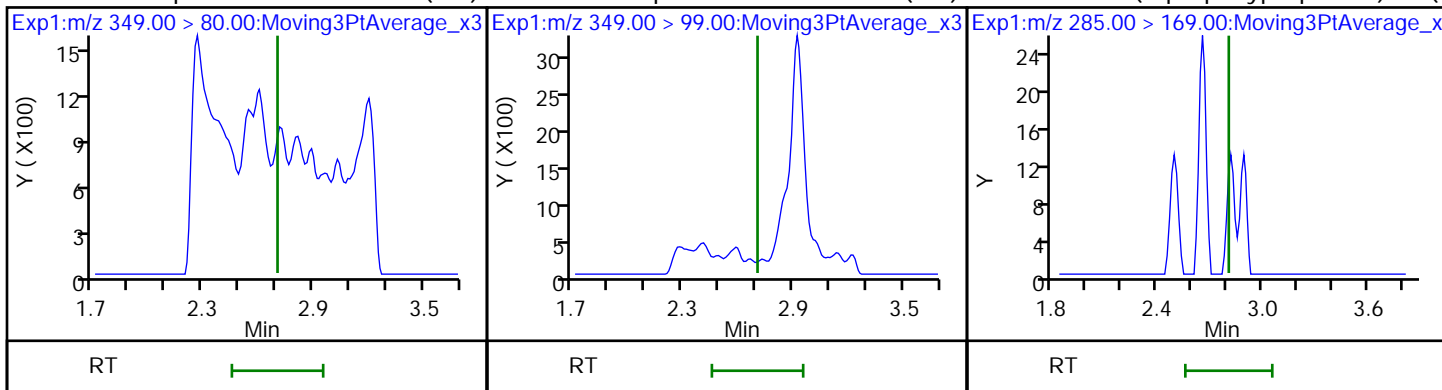
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

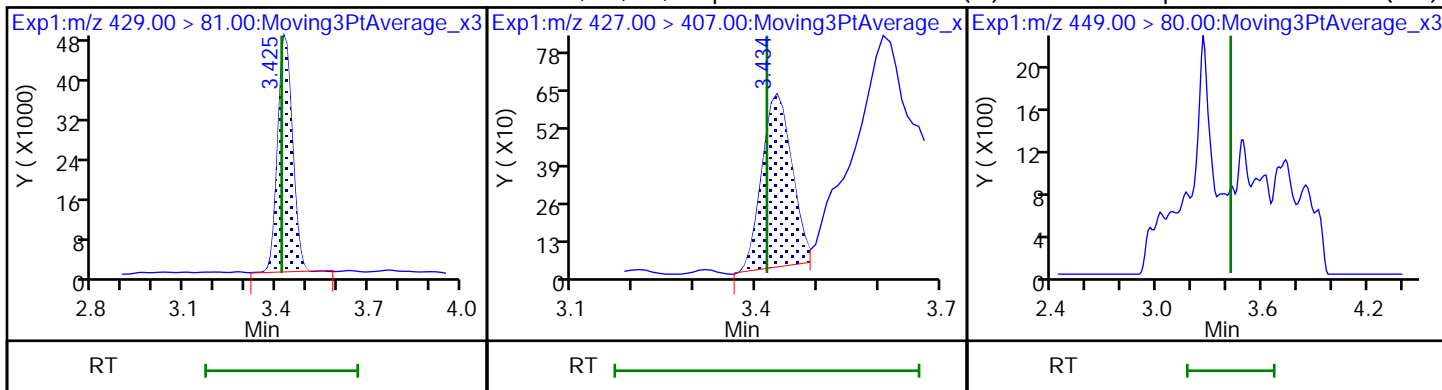


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (ND)



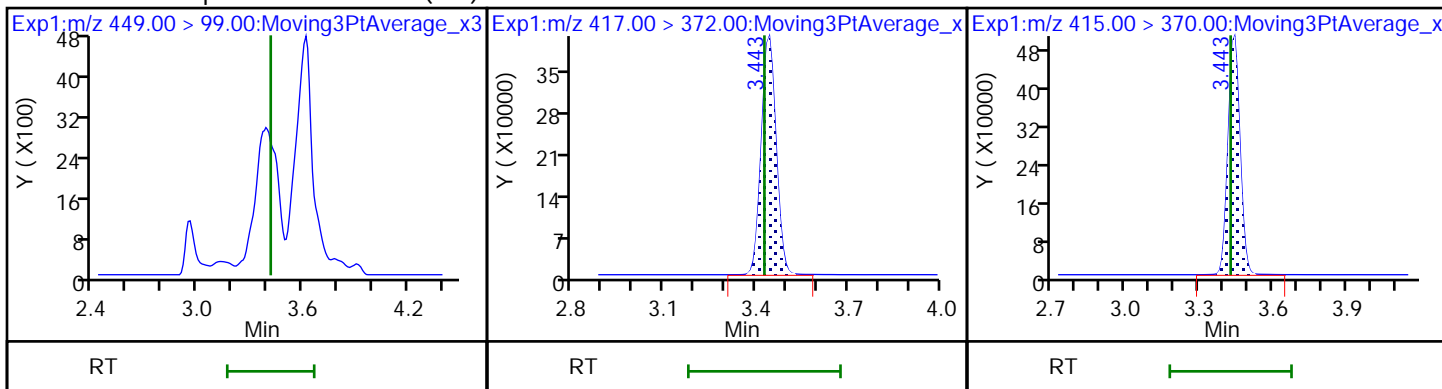
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

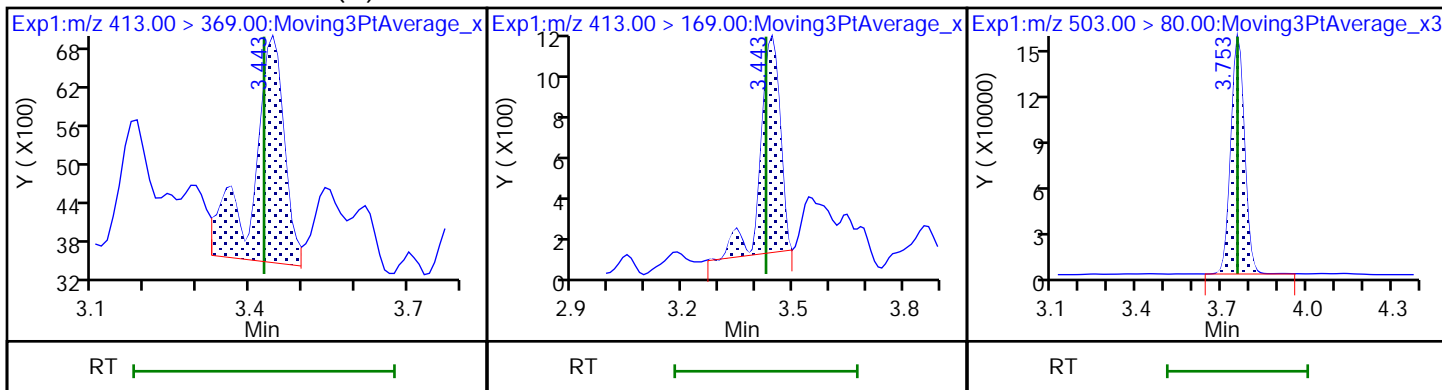
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

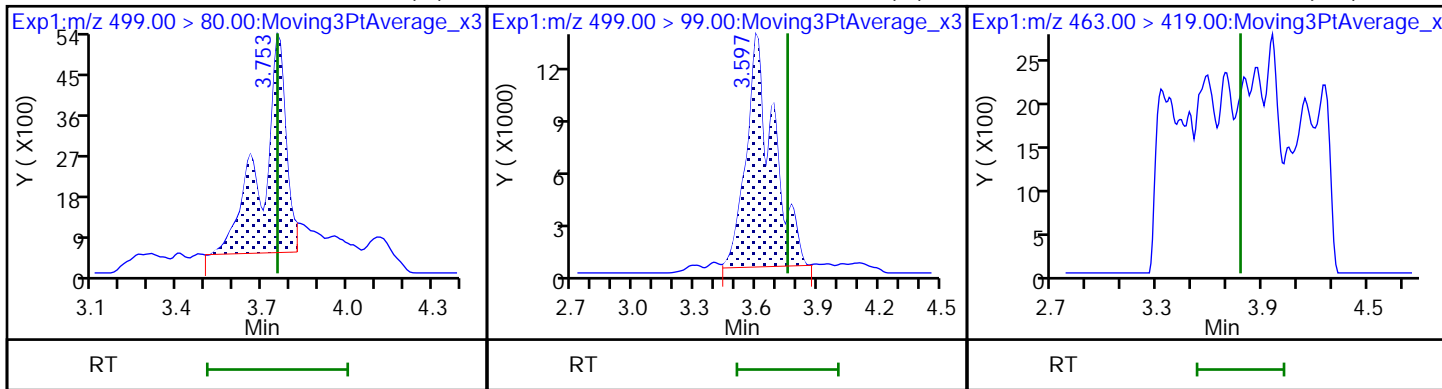
D 18 13C4 PFOS

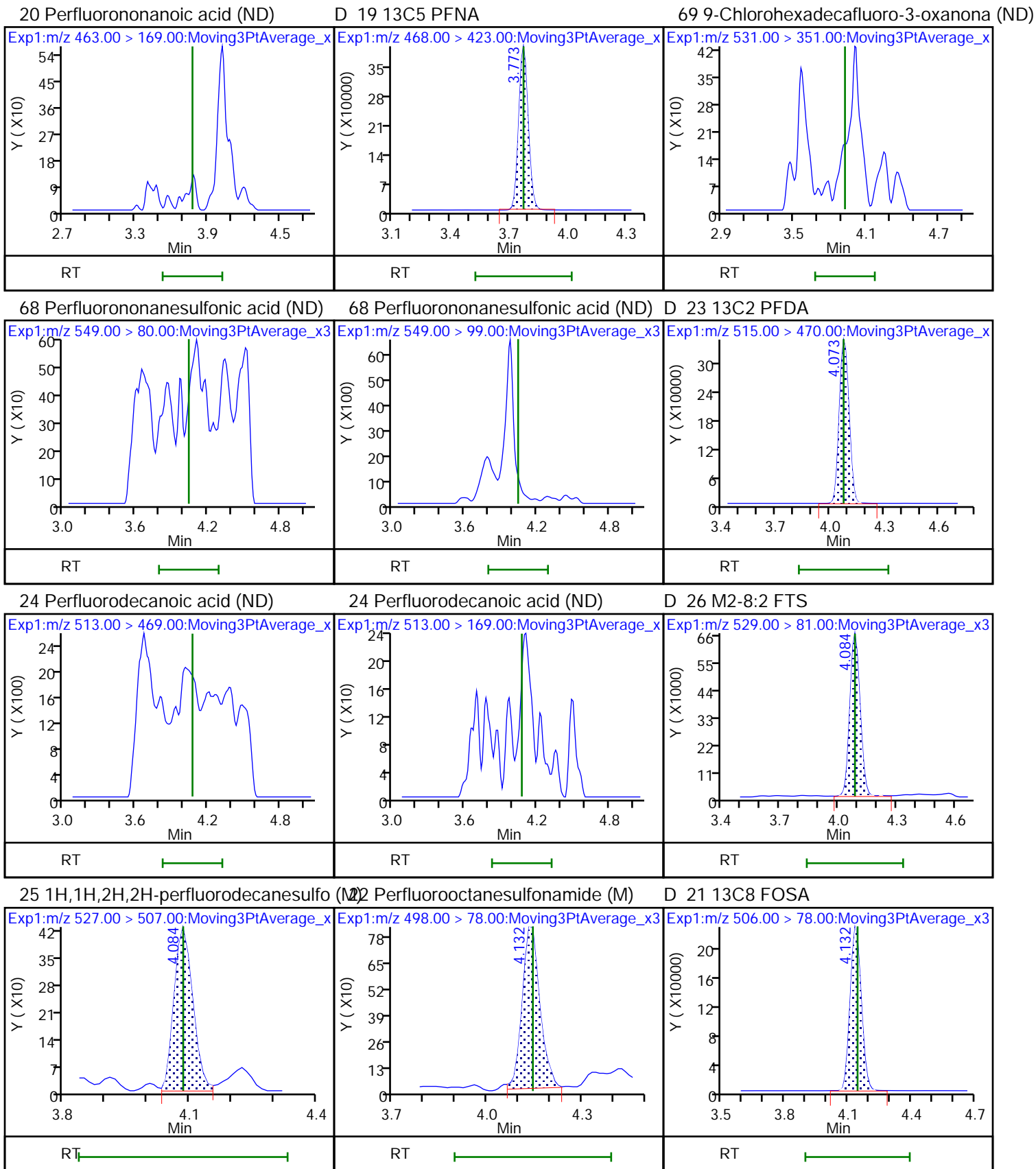


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

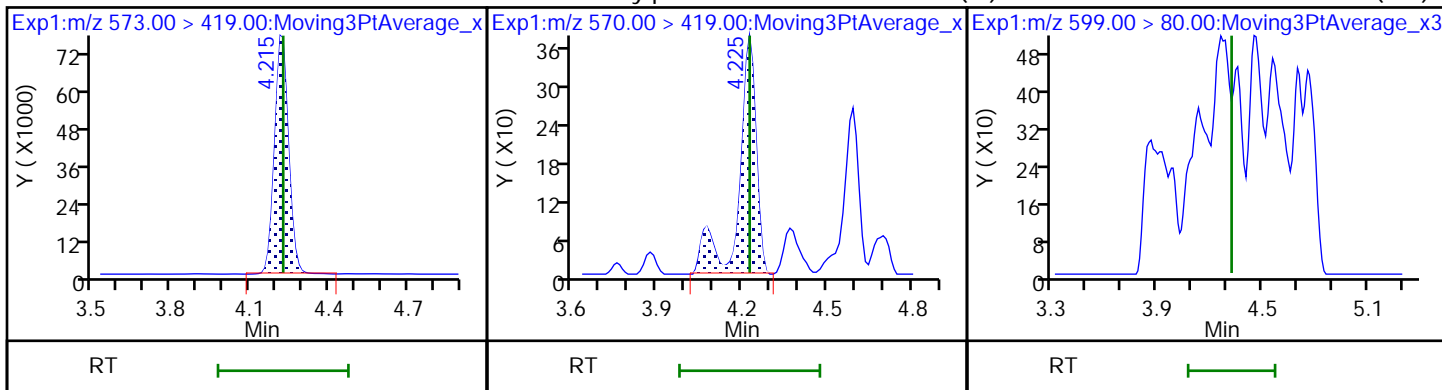
20 Perfluorononanoic acid (ND)





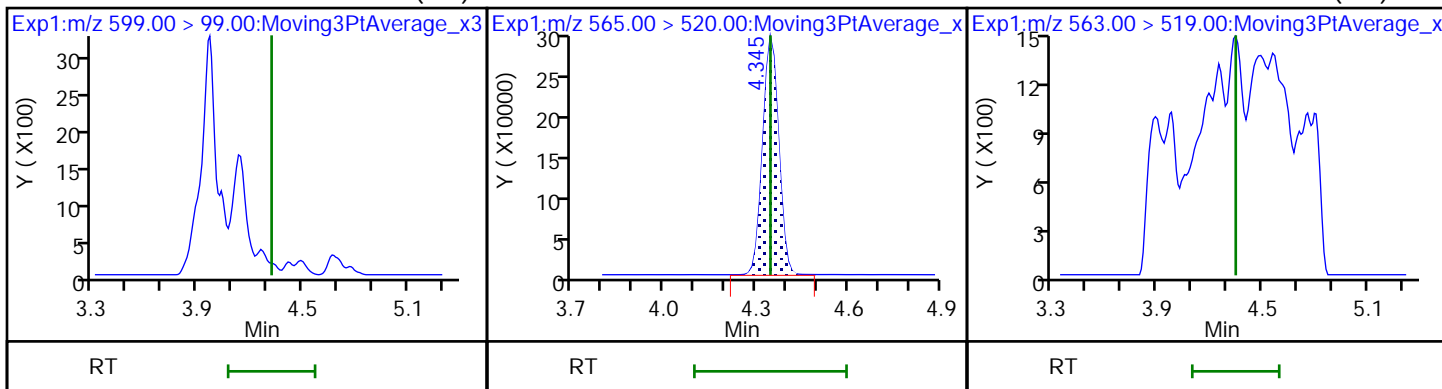
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUoA

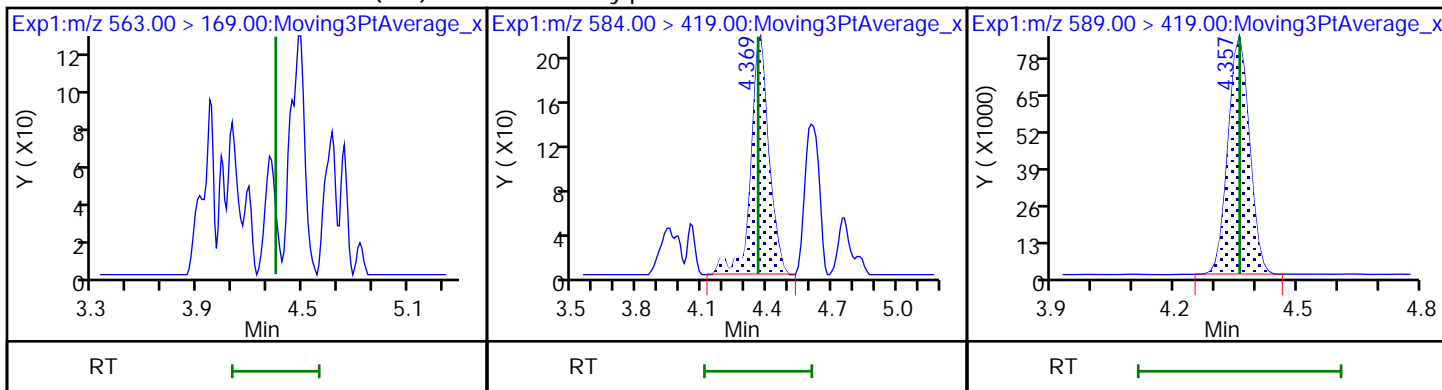
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

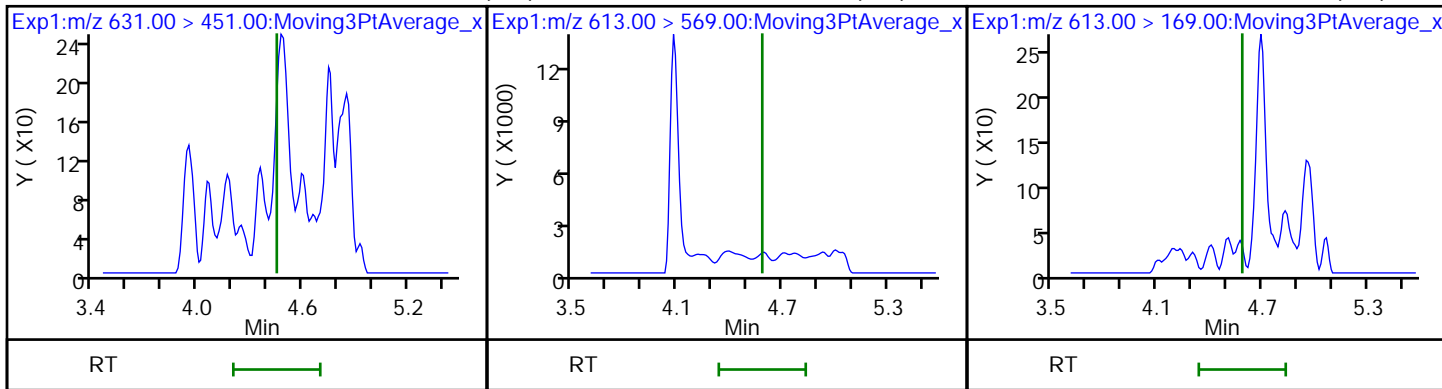
33 N-ethylperfluorooctanesulfonamid

D 32 d5-NEtFOSAA



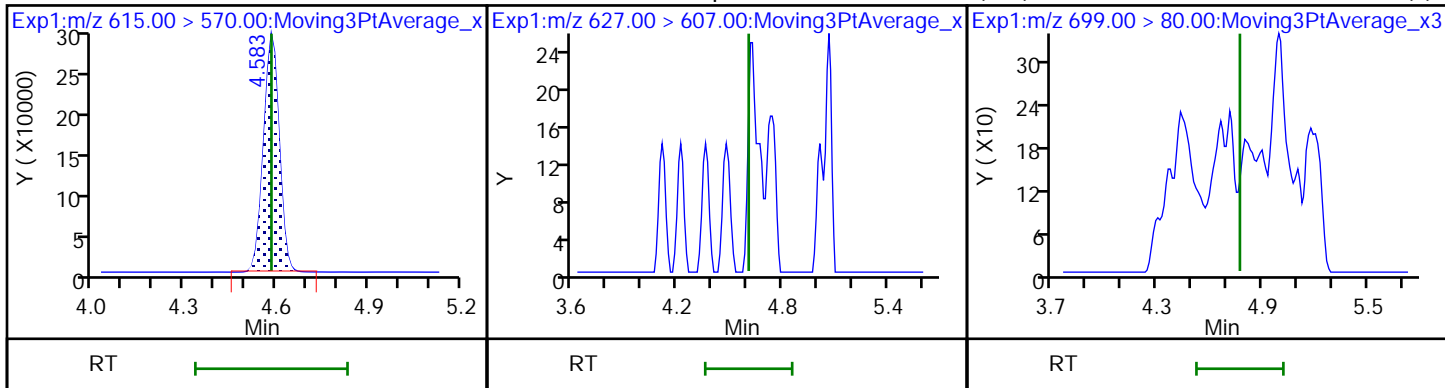
66 11-Chloroeicosafuoro-3-oxaundec (NB) 37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)



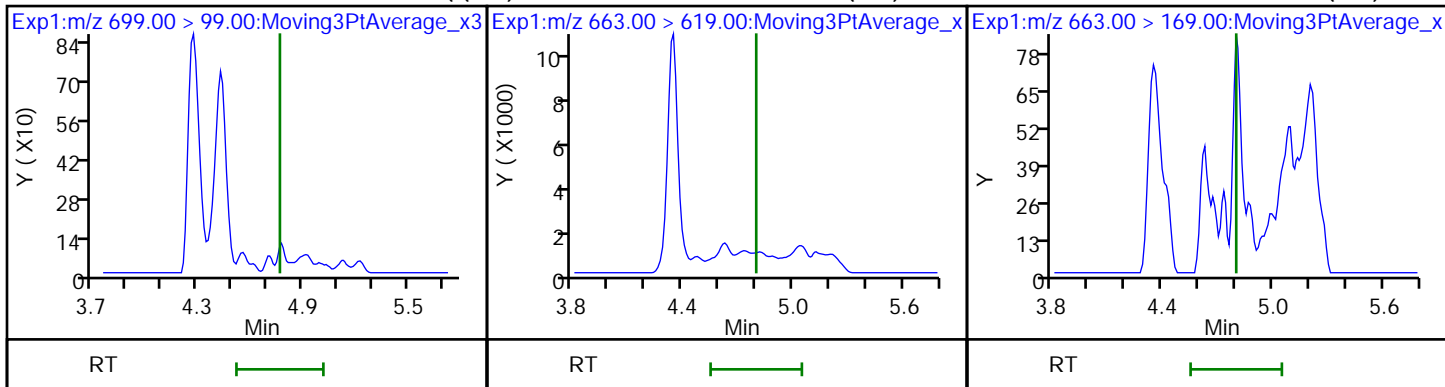
D 36 13C2 PFDa

74 1H,1H,2H,2H-perfluorododecanesul (ND) Perfluorododecanesulfonic acid (ND)



75 Perfluorododecanesulfonic acid (ND) 1 Perfluorotridecanoic acid (ND)

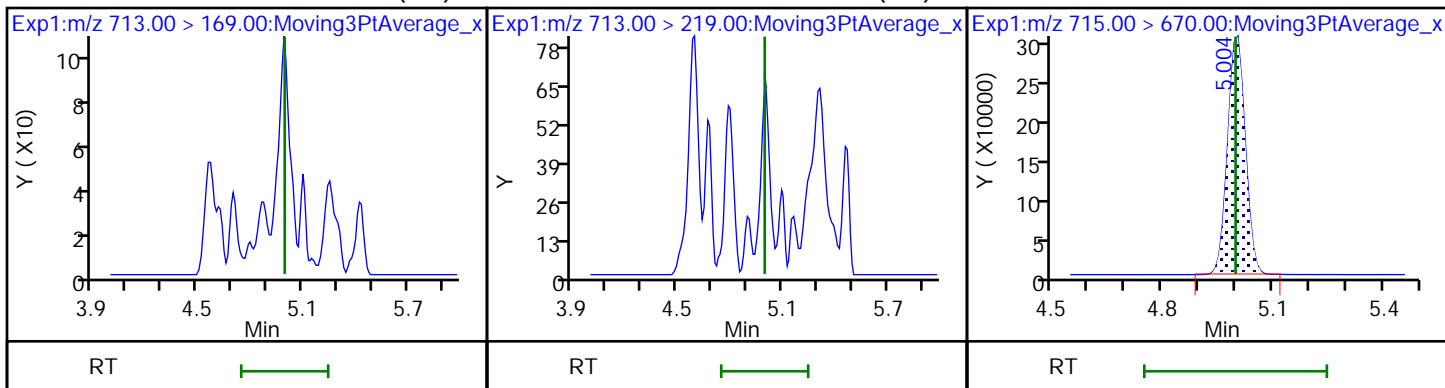
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)

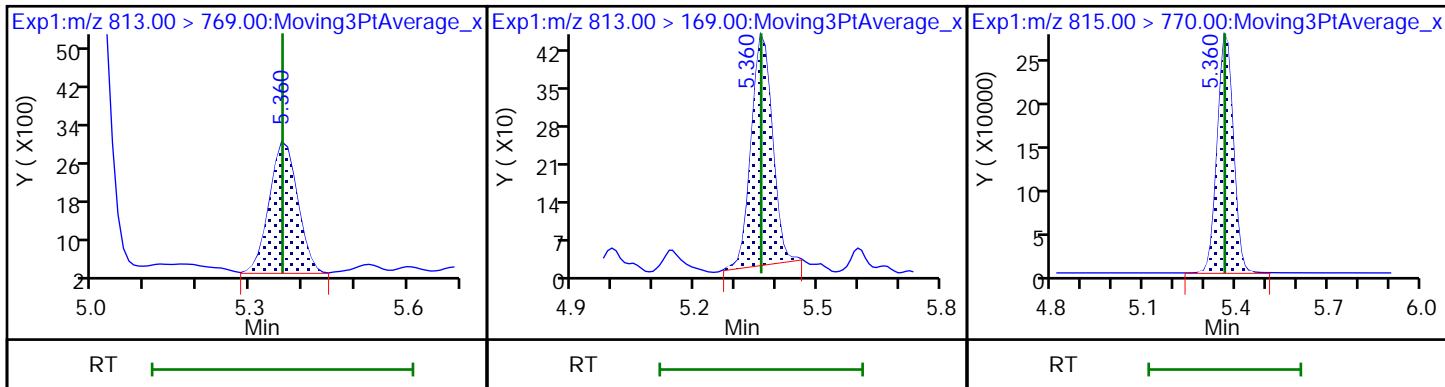
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

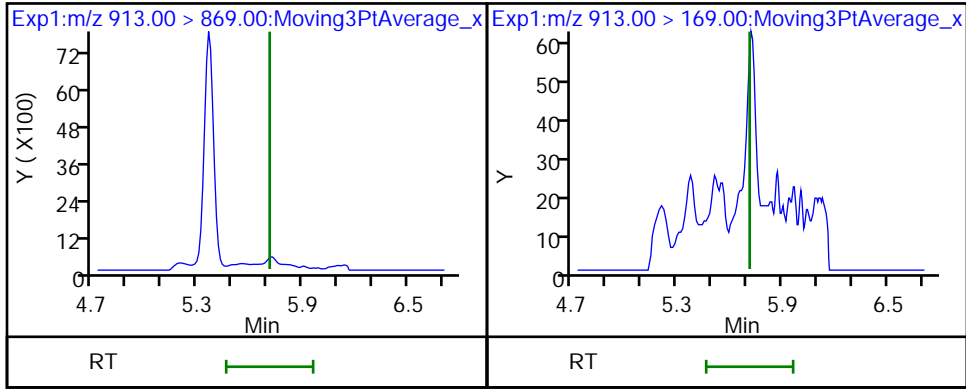
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

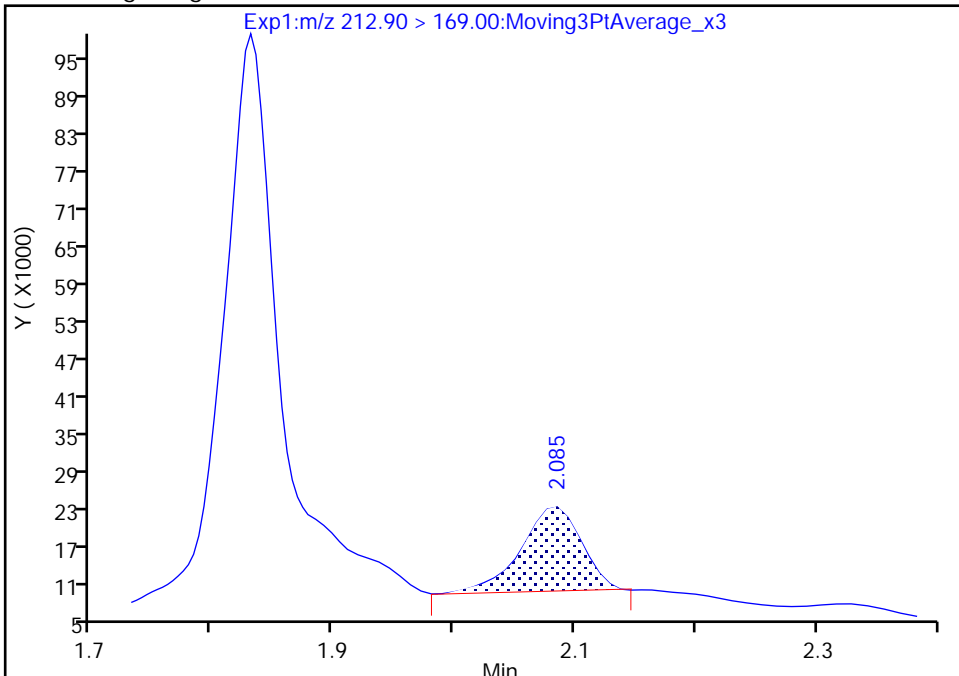
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

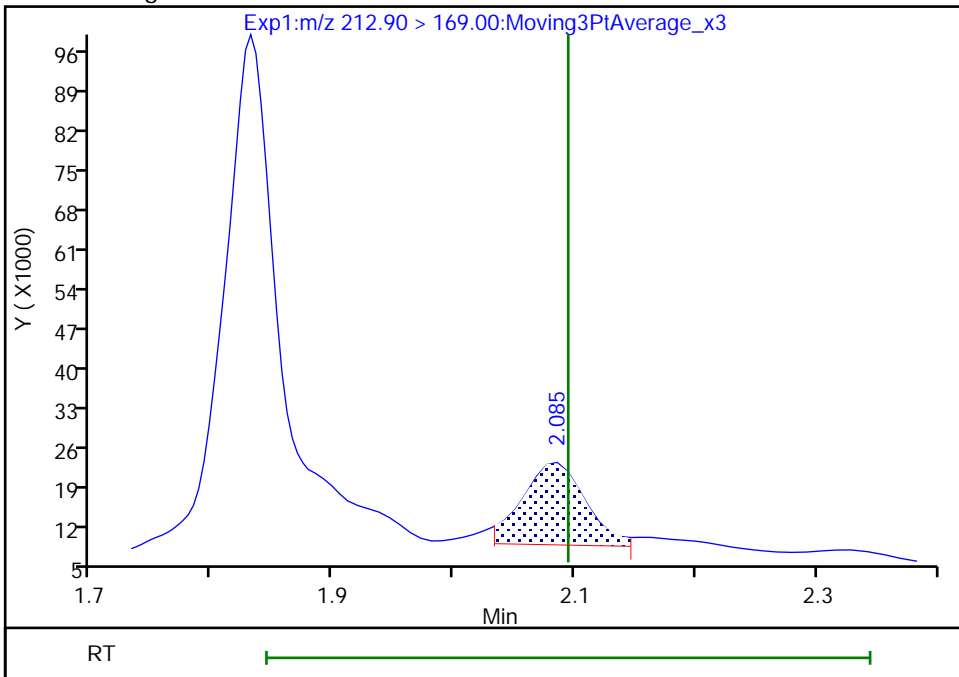
RT: 2.09
Area: 47631
Amount: -0.000073
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 52886
Amount: 0.004707
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:57:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 132 of 742

Eurofins Burlington

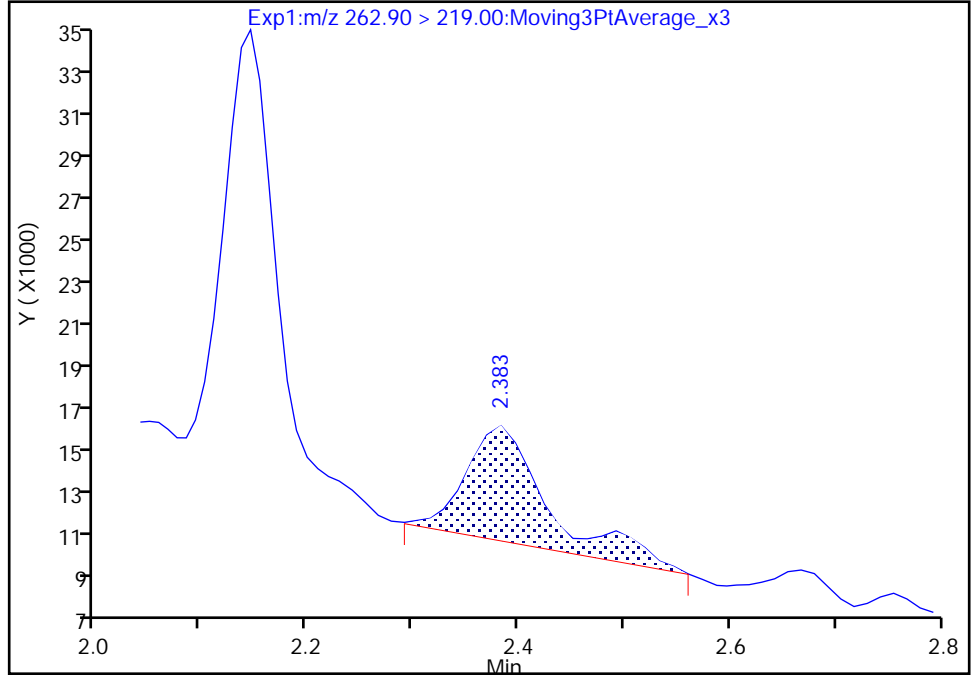
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

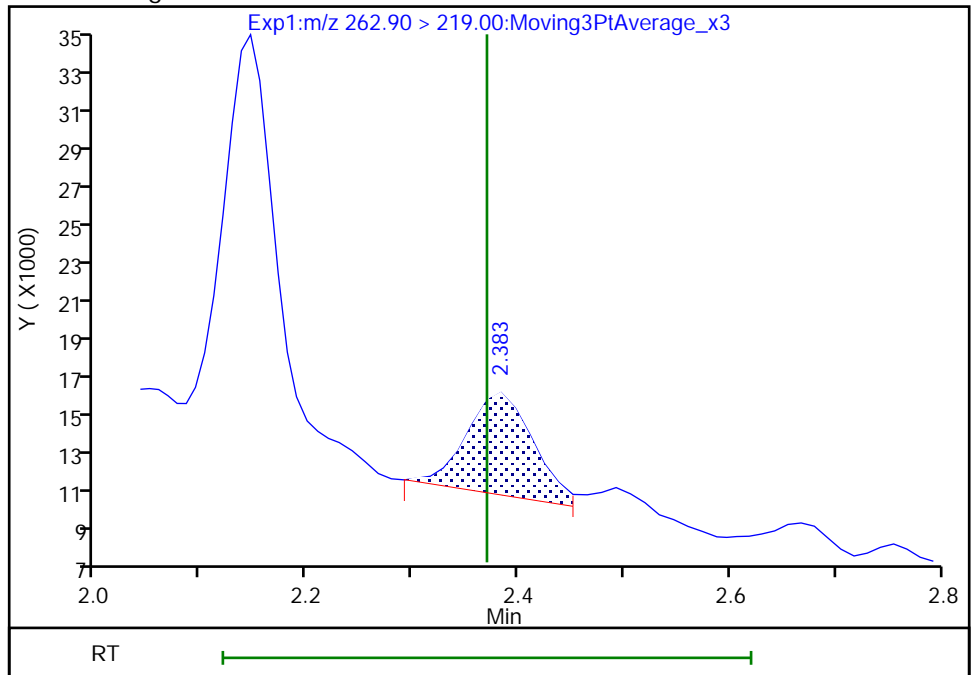
RT: 2.38
Area: 27682
Amount: 0.027649
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 22756
Amount: 0.022729
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:57:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

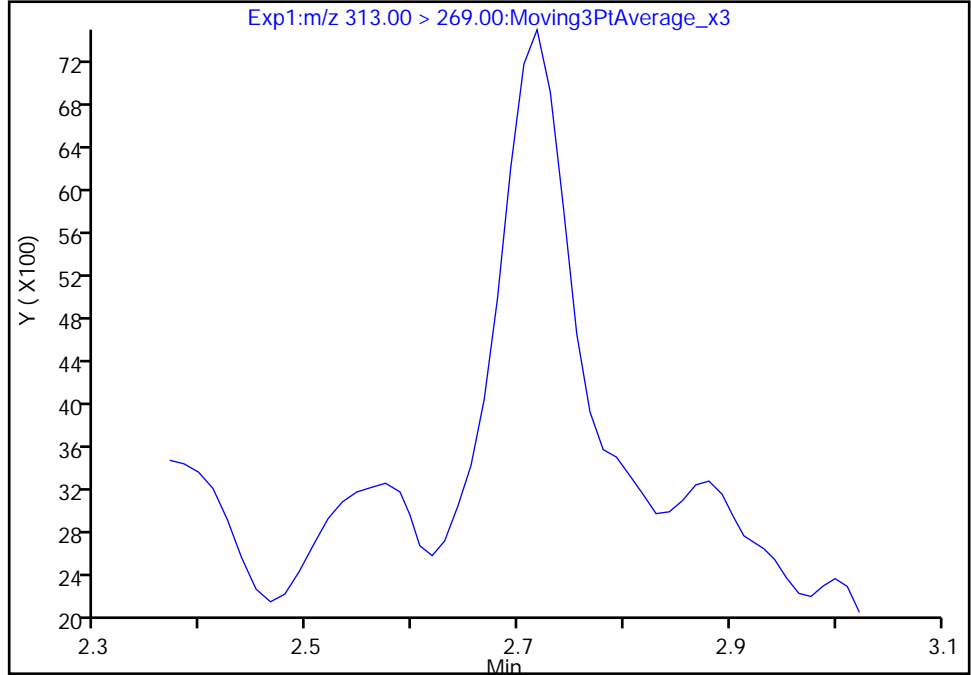
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A21.d
Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

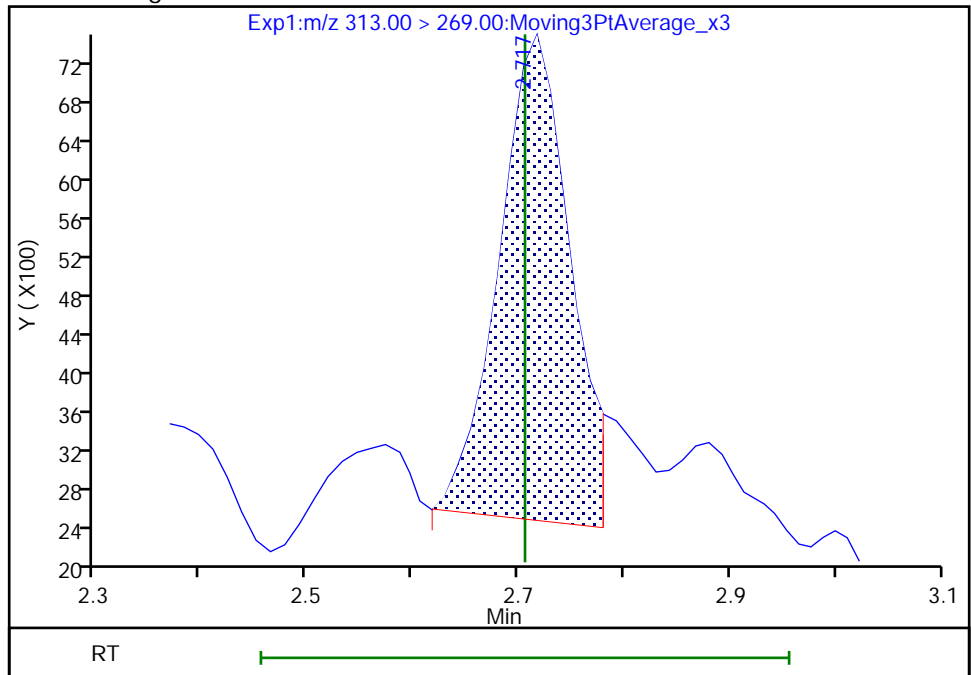
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.72
Area: 23053
Amount: 0.021859
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:59:06
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

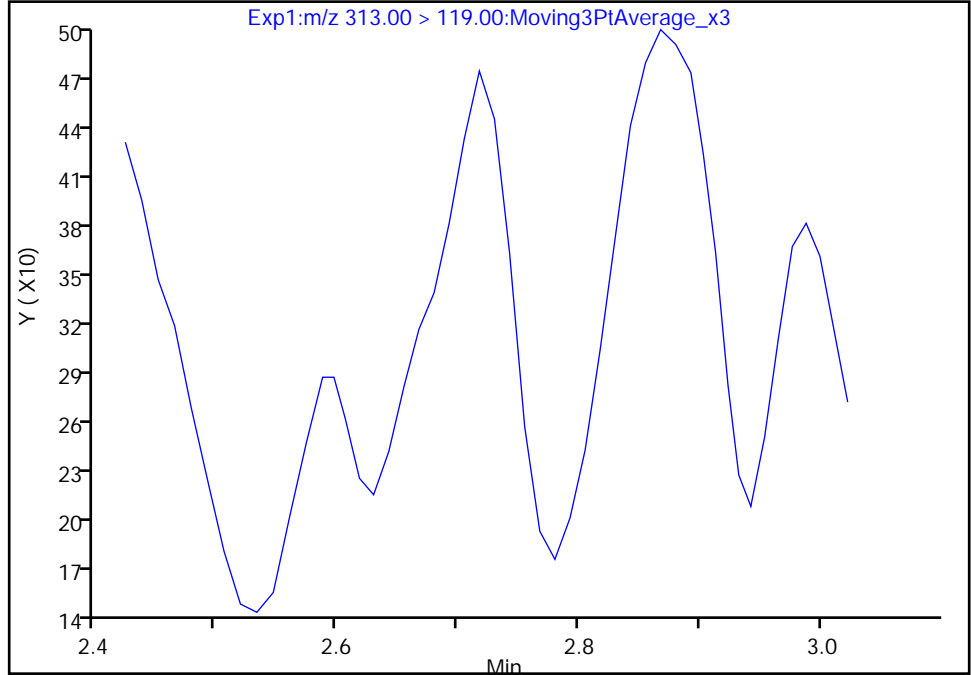
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A21.d
Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

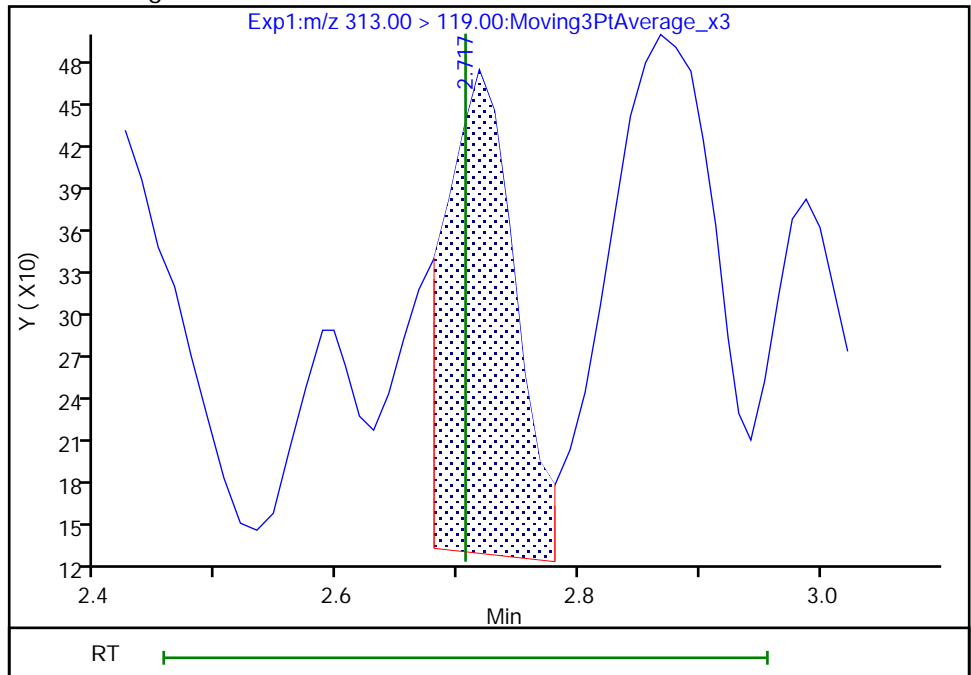
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.72
Area: 1330
Amount: 0.021859
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:59:30

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

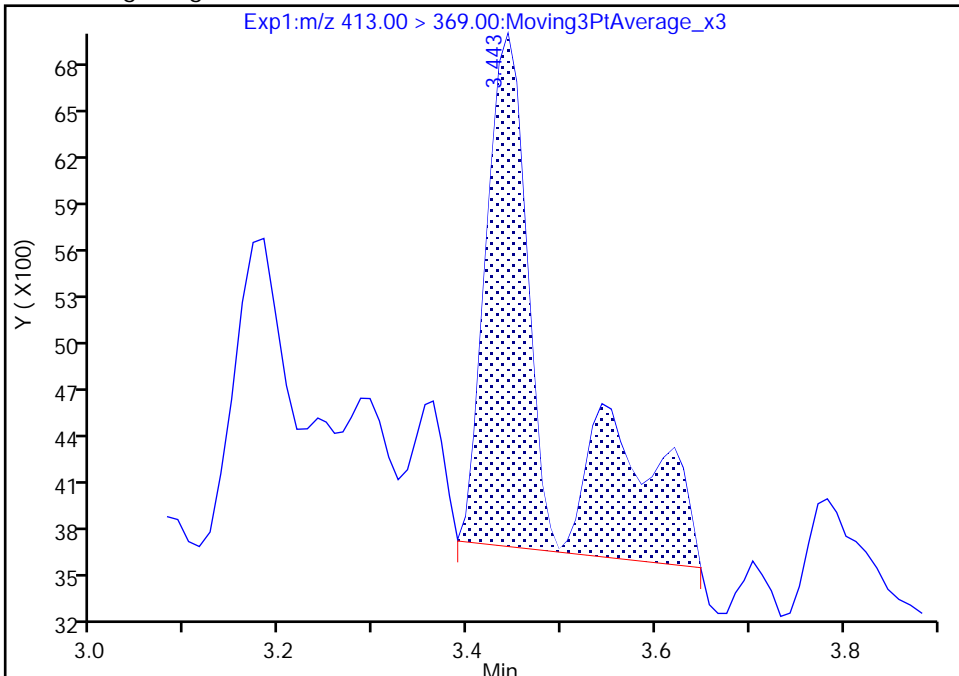
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

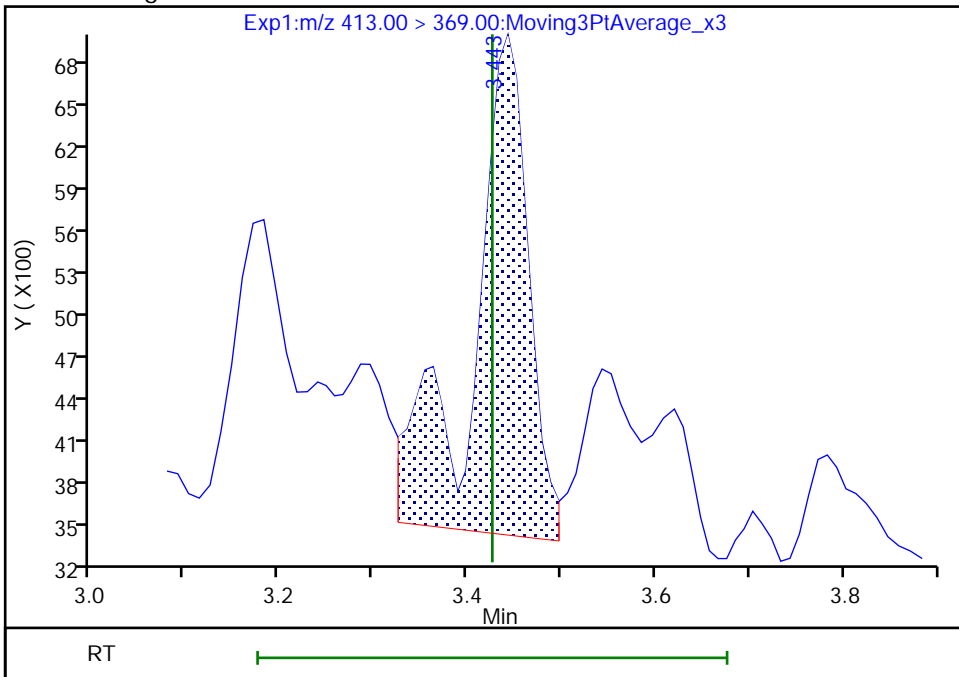
RT: 3.44
Area: 14865
Amount: 0.012698
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 14473
Amount: 0.012363
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:01:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

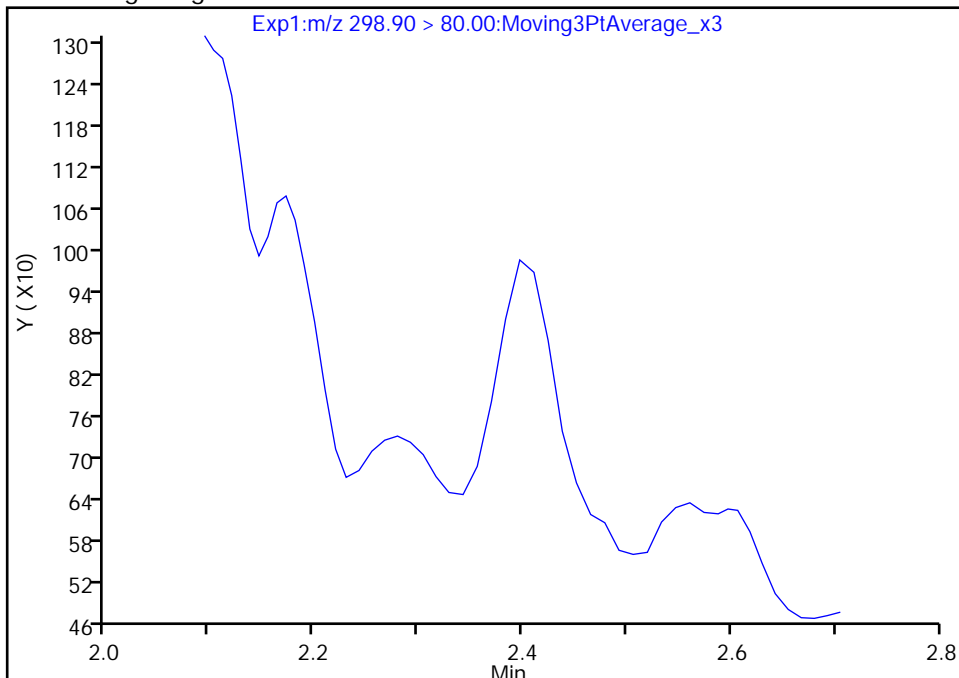
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

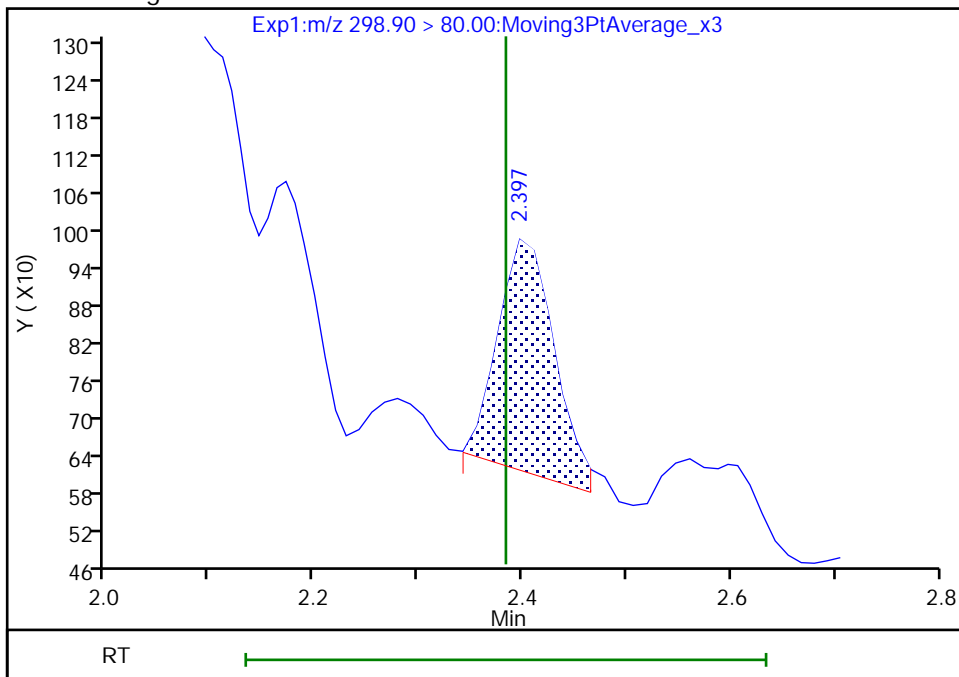
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1390
Amount: 0.001473
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:58:22
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

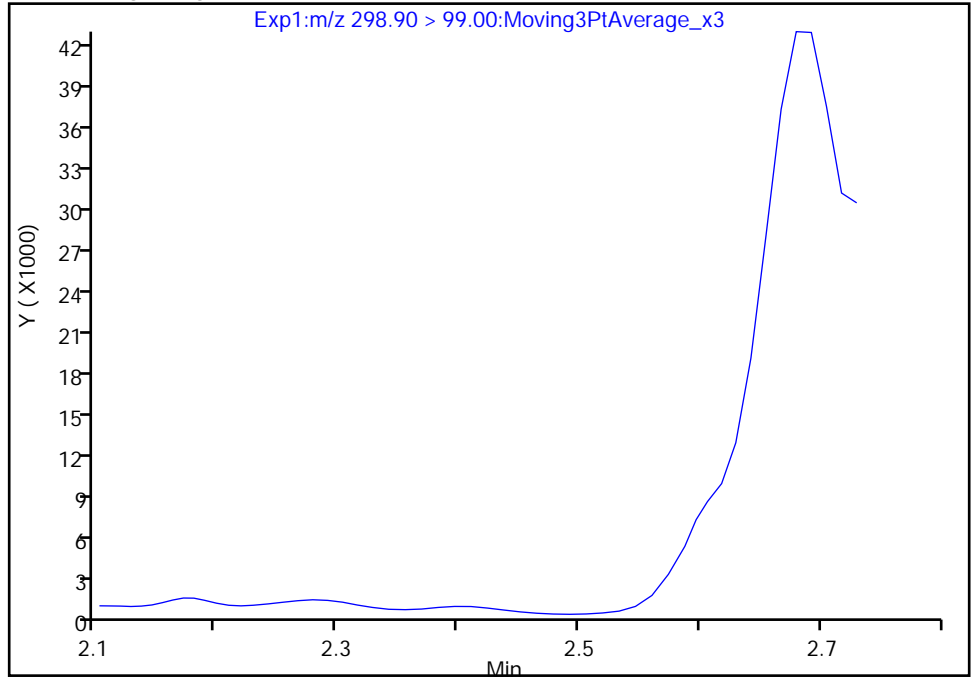
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

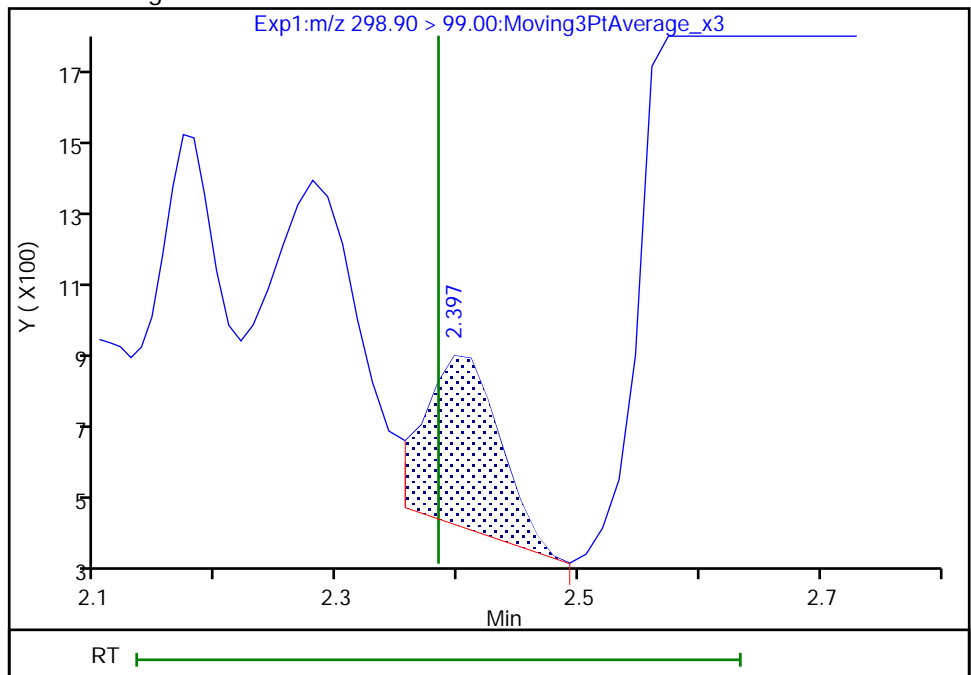
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 2014
Amount: 0.001473
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:58:25

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

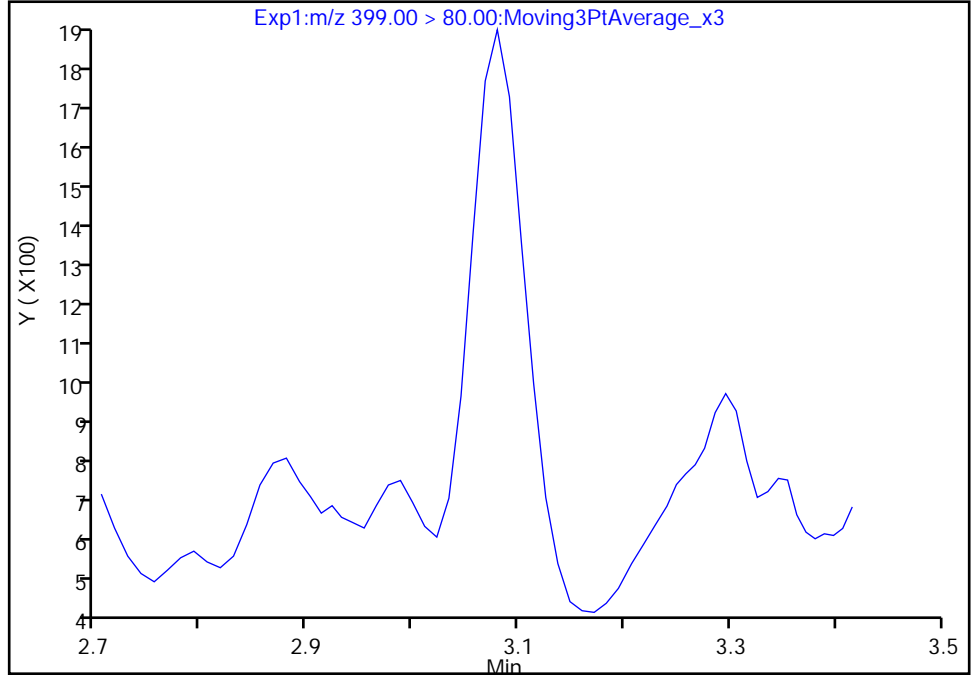
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

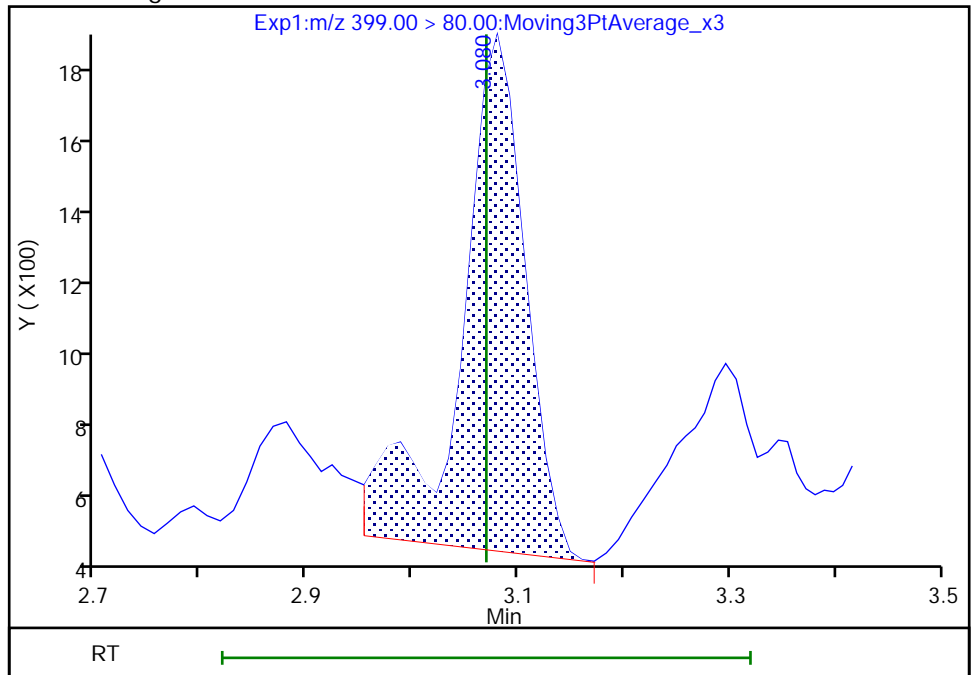
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 5860
Amount: 0.009025
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:59:58
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

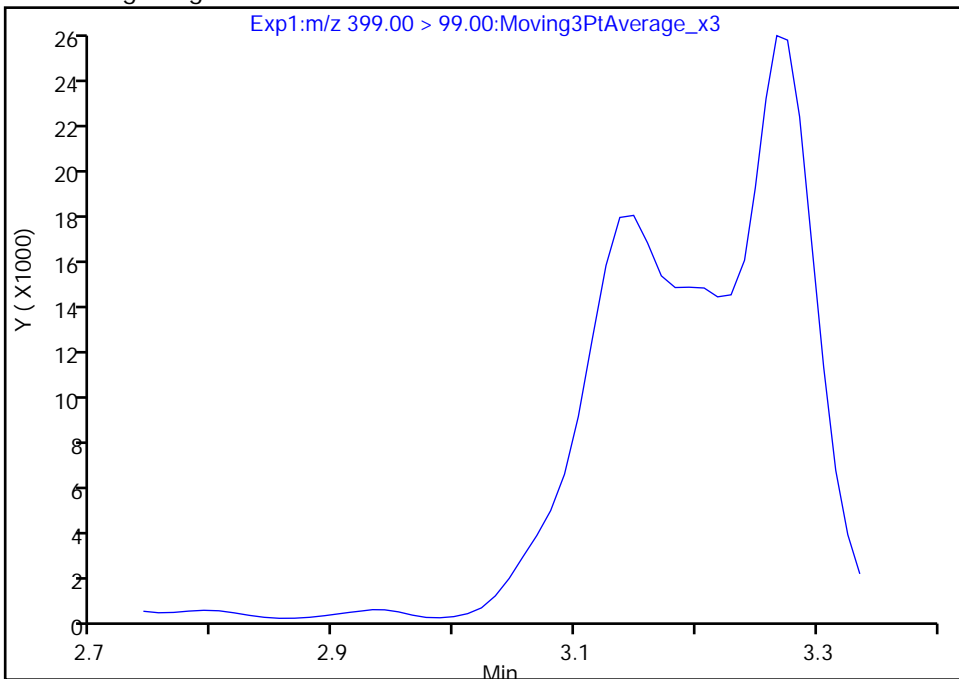
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

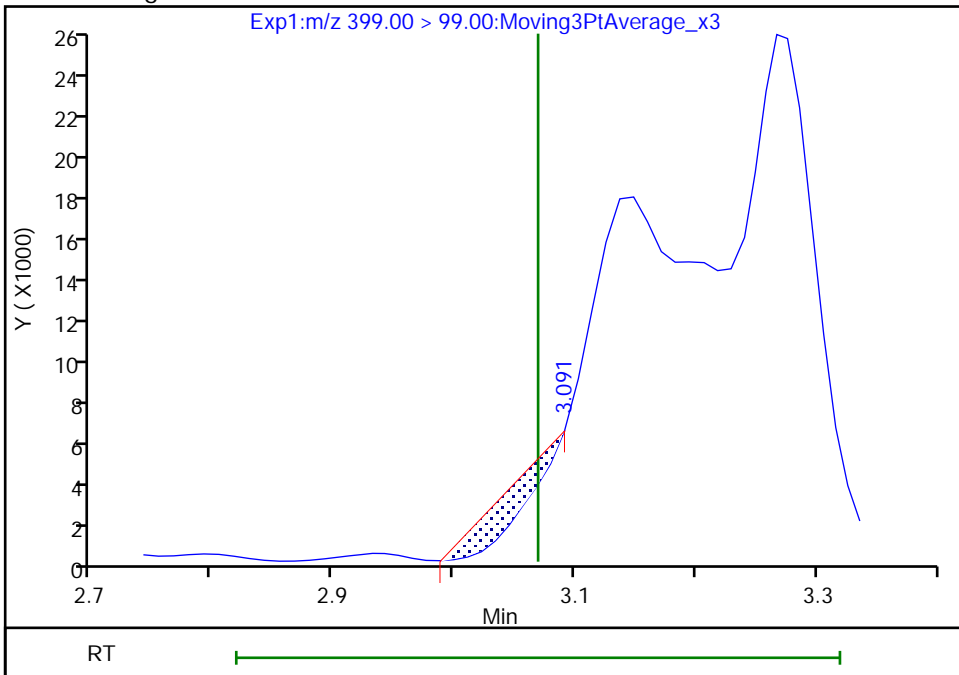
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 7194
Amount: 0.009025
Amount Units: ng/ml



Eurofins Burlington

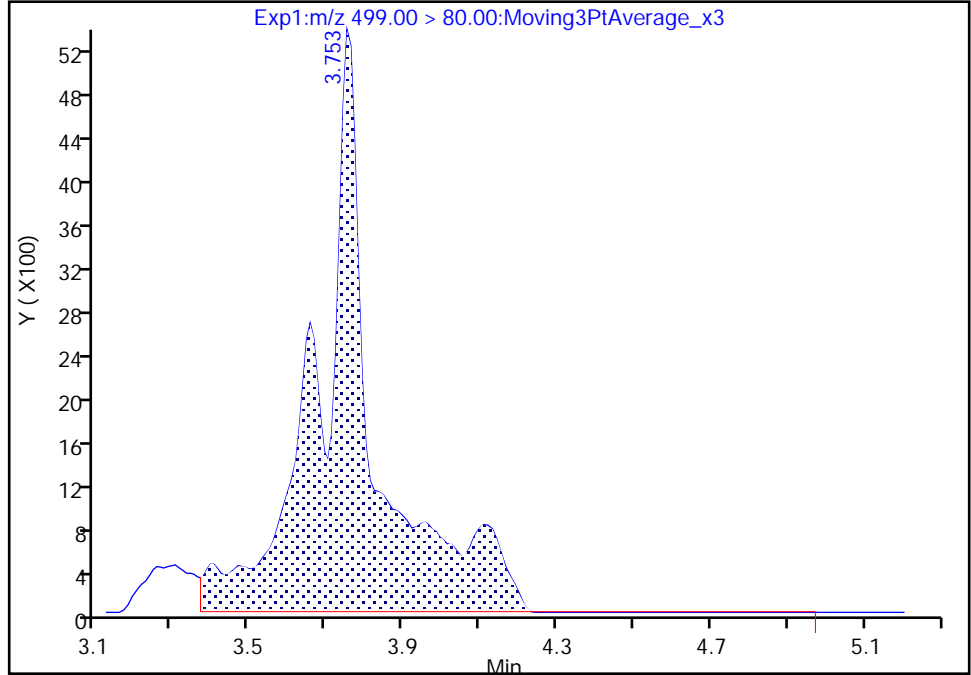
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

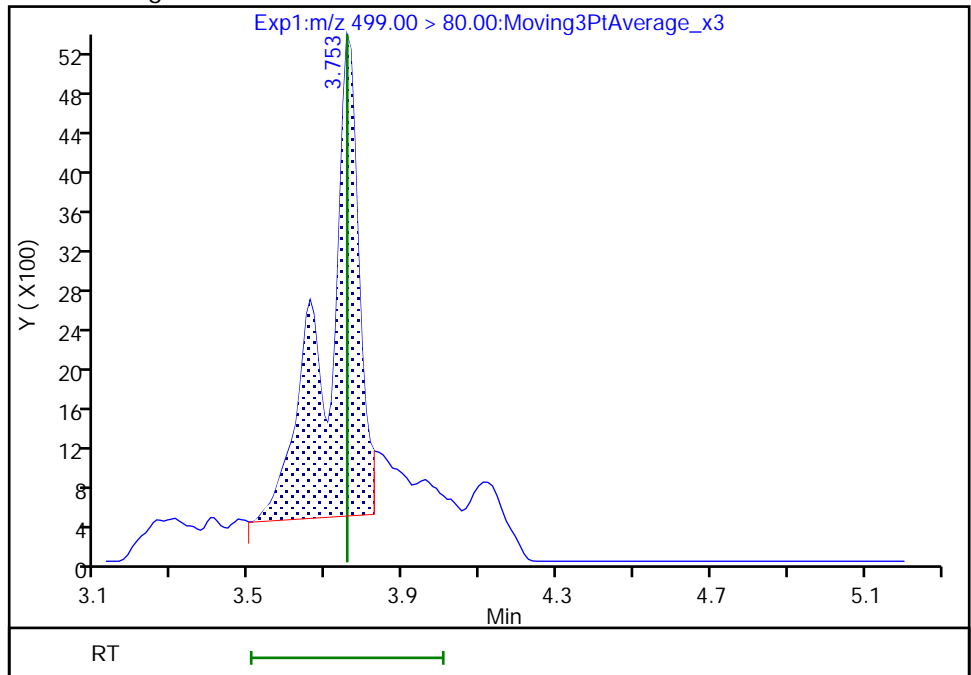
RT: 3.75
Area: 56672
Amount: 0.111905
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 28808
Amount: 0.056885
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:01:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

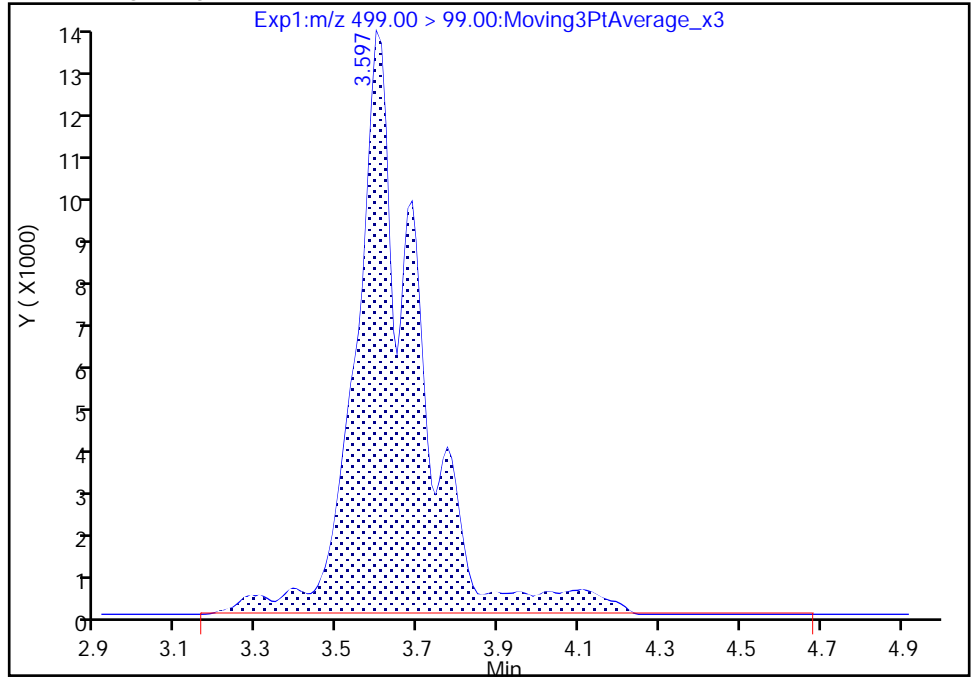
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

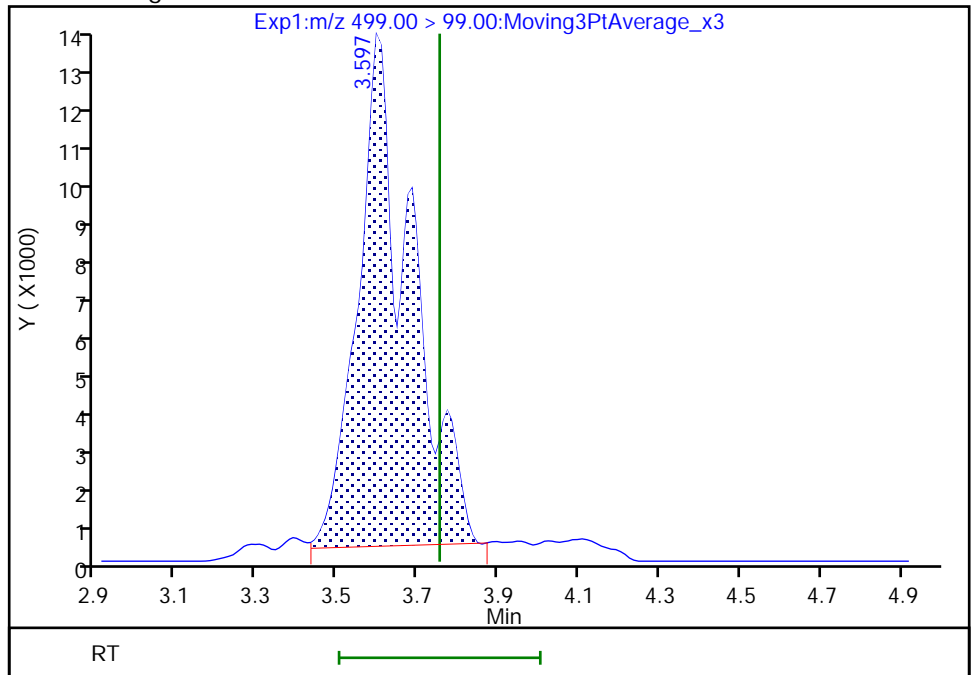
RT: 3.60
Area: 147813
Amount: 0.111905
Amount Units: ng/ml

Processing Integration Results



RT: 3.60
Area: 121955
Amount: 0.056885
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:01:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

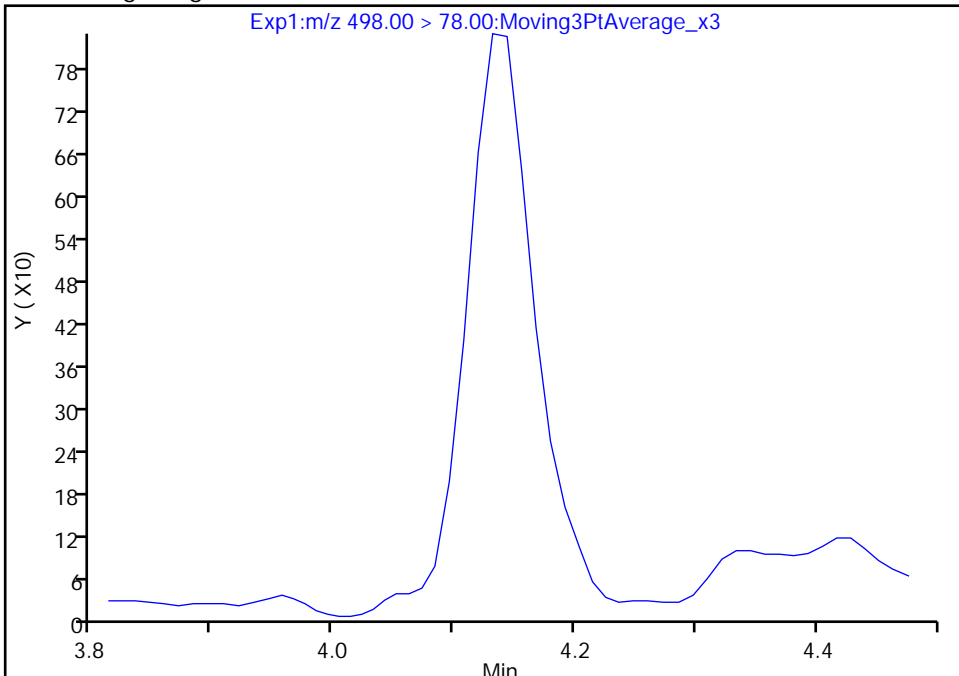
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

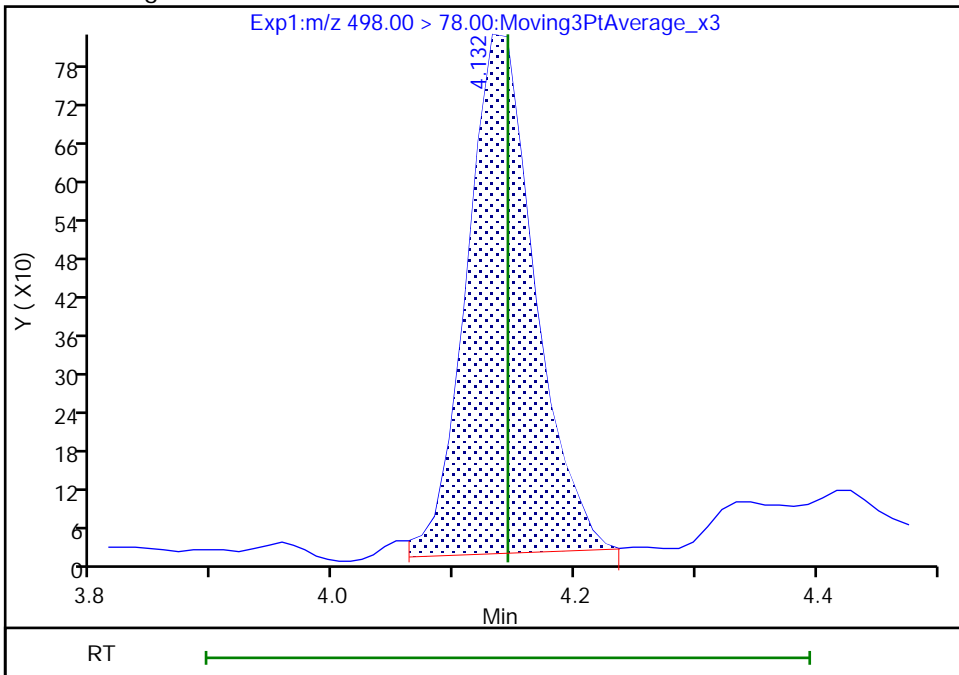
Processing Integration Results

Not Detected
Expected RT: 4.14



Manual Integration Results

RT: 4.13
Area: 3186
Amount: 0.004808
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 18:02:27
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

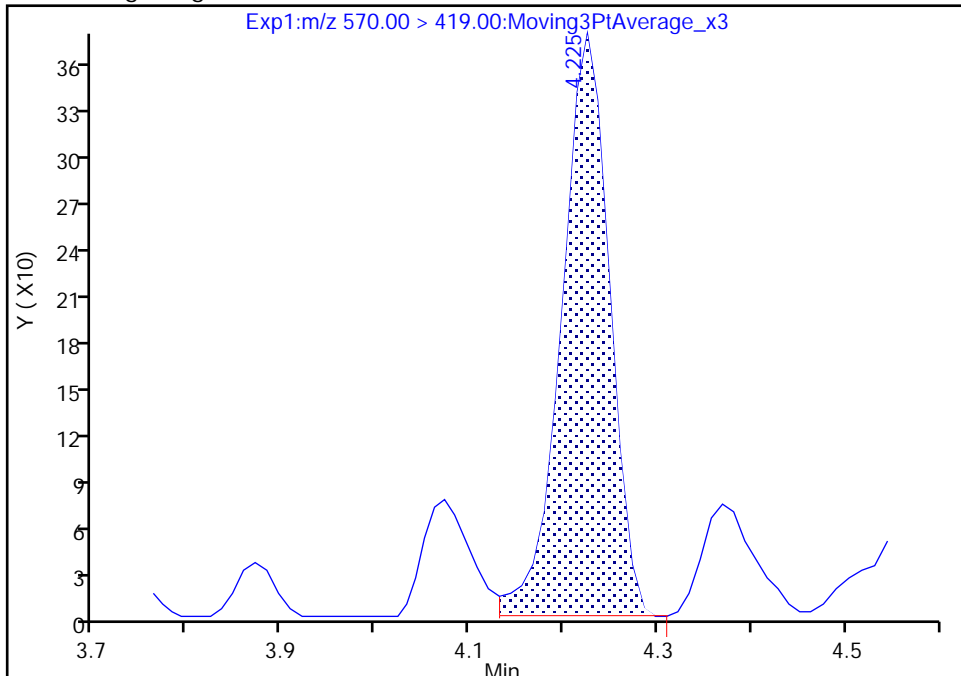
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

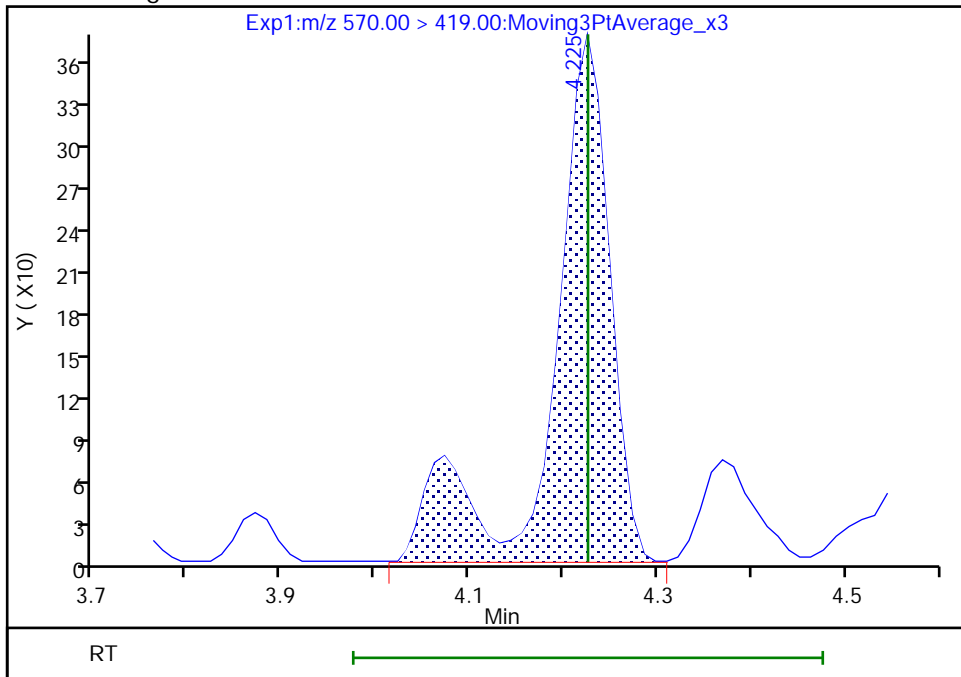
RT: 4.23
Area: 1343
Amount: 0.006435
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 1607
Amount: 0.007700
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:02:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

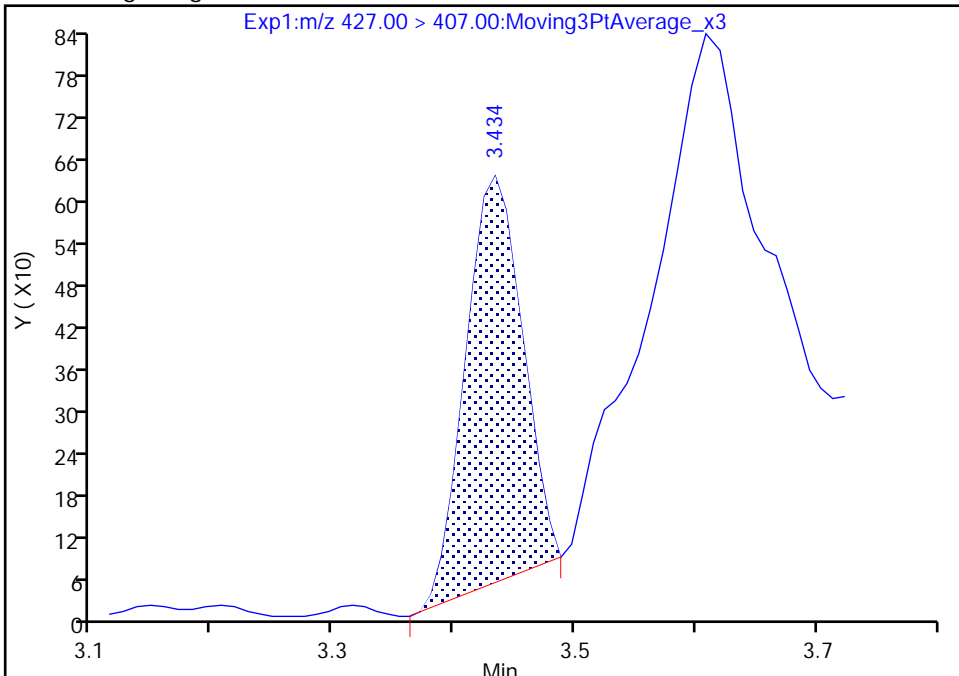
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

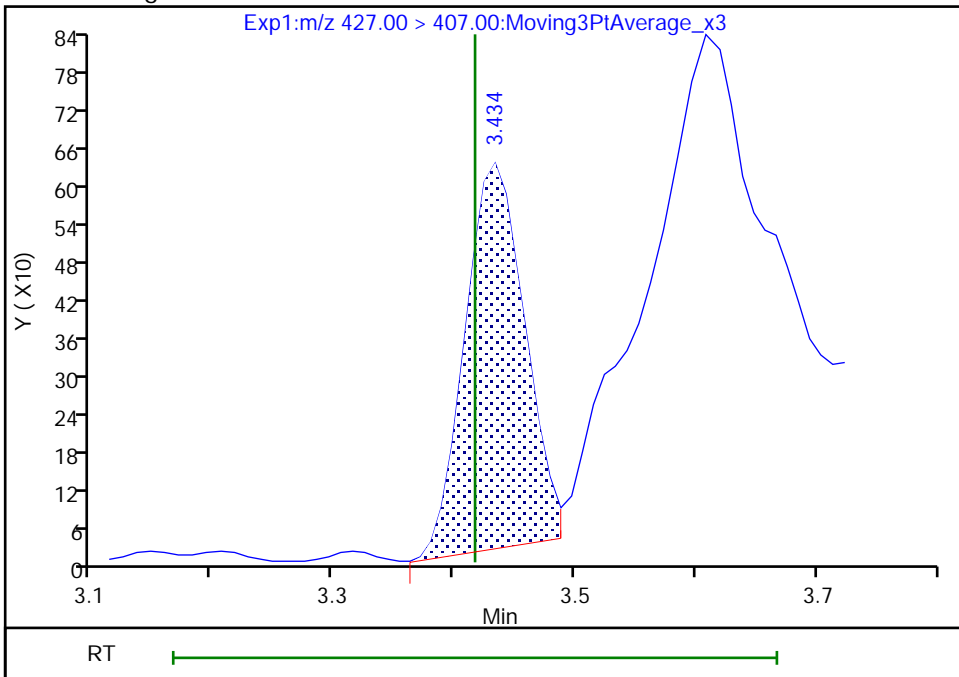
RT: 3.43
Area: 1927
Amount: 0.006230
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 2103
Amount: 0.006799
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:00:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

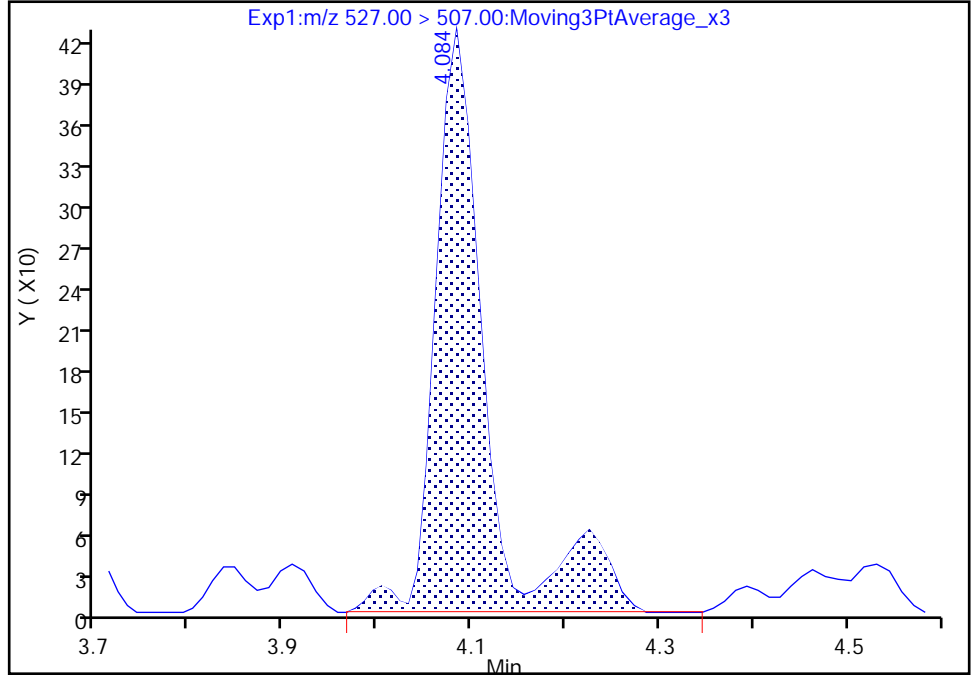
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Injection Date: 26-Jan-2023 22:29:41 Instrument ID: LC812
Lims ID: 460-273176-A-4-A Lab Sample ID: 200-273176-4
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

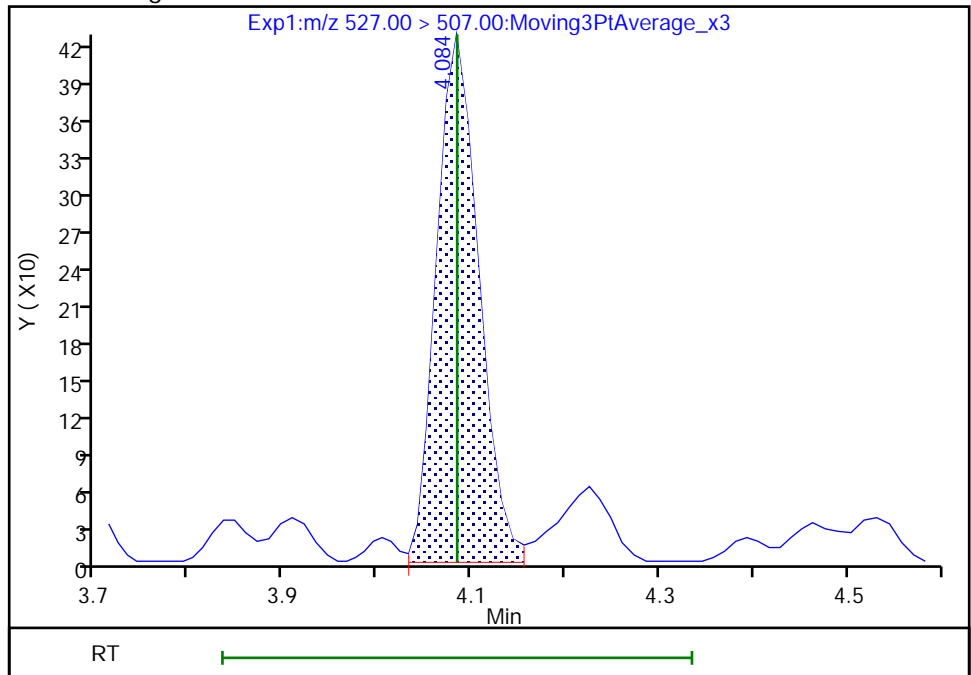
RT: 4.08
Area: 1592
Amount: 0.004246
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 1318
Amount: 0.003515
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:02:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: DUP_09_011823_1P Lab Sample ID: 460-273176-5
 Matrix: Solid Lab File ID: PA230126A24.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:45
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.22(g) Date Analyzed: 01/26/2023 22:54
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 26.6 % Solids: 73.4 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.65	U	0.65	0.43
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.26	U	0.26	0.072
307-24-4	Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.060
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.26	U	0.26	0.051
335-67-1	Perfluorooctanoic acid (PFOA)	0.26	U	0.26	0.076
375-95-1	Perfluorononanoic acid (PFNA)	0.26	U	0.26	0.044
335-76-2	Perfluorodecanoic acid (PFDA)	0.26	U	0.26	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.26	U	0.26	0.035
307-55-1	Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.033
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.034
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.043
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.054
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.26	U	0.26	0.030
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.26	U	0.26	0.14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.26	U	0.26	0.025
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.26	U	0.26	0.044
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.61	U	2.61	0.14
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.61	U	2.61	0.11
27619-97-2	6:2 FTS	2.61	U	2.61	0.074
39108-34-4	8:2 FTS	2.61	U	2.61	0.048

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: DUP_09_011823_1P Lab Sample ID: 460-273176-5
 Matrix: Solid Lab File ID: PA230126A24.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:45
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.22(g) Date Analyzed: 01/26/2023 22:54
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 26.6 % Solids: 73.4 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	55		50-150
STL01892	13C4 PFHpA	69		50-150
STL00990	13C4 PFOA	69		50-150
STL00991	13C4 PFOS	57		50-150
STL00995	13C5 PFNA	71		50-150
STL00992	13C4 PFBA	71		50-150
STL00993	13C2 PFHxA	69		50-150
STL00996	13C2 PFDA	71		50-150
STL00997	13C2 PFUnA	69		50-150
STL00998	13C2 PFDoA	68		50-150
STL01056	13C8 FOSA	53		50-150
STL01893	13C5 PFPeA	64		50-150
STL02116	13C2 PFTeDA	67		50-150
STL02118	d3-NMeFOSAA	76		50-150
STL02117	d5-NEtFOSAA	87		50-150
STL02279	M2-6:2 FTS	70		50-150
STL02280	M2-8:2 FTS	80		50-150
STL02337	13C3 PFBS	54		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
 Lims ID: 460-273176-A-5-A
 Client ID: DUP_09_011823_1P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 22:54:11 ALS Bottle#: 21 Worklist Smp#: 24
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-5-A
 Misc. Info.: 200-0054135-024 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:40:09 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 18:38:46

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	1404171	0.8921	71.4	13785	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.094	0.0	1.004	39031	-0.006721		4.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1012005	0.7954	63.6	3100	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.370	2.370	0.0	0.994	15584	0.0168		0.3		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	870608	0.6233	53.6	127165	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.411	2.384	0.027	1.006	1162	0.001448	Target=2.10	1.0		M
298.90 > 99.00	2.438	2.384	0.054	1.017	435		2.67(1.05-3.15)	0.1		M
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1141085	0.8631	69.0	10933	
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.895	657750	0.6472	54.7	3709	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.091	3.069	0.022	1.004	4218	0.006908	Target=3.18	6.3		RM
399.00 > 99.00	3.103	3.069	0.034	1.007	5717		0.74(1.59-4.77)	2.1		M
D 9 13C4 PFHpA	367.00 > 322.00	3.091	3.069	0.022	0.898	1144087	0.8644	69.1	4705	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.080	3.069	0.011	0.996	4731	0.004854	Target=4.10	0.8		
363.00 > 169.00	3.080	3.069	0.011	0.996	1701		2.78(2.05-6.16)	5.3		M
D 12 M2-6:2 FTS	429.00 > 81.00	3.425	3.417	0.008	0.995	133578	0.8337	70.2	264	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.425	3.417	0.008	1.000	1679	0.006518			3.7	M
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	0.997	1215434	0.8667		69.3	5222	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1711253	1.25			6941	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	417847	0.6762		56.6	672	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.753	3.754	-0.001	1.000	15697	0.0370	Target=4.23		13.5	RM
499.00 > 99.00	3.597	3.754	-0.157	0.958	62461		0.25(2.11-6.34)		45.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1221036	0.8937		71.5	6649	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1242706	0.8867		70.9	4861	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	191648	0.9548		79.7	325	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.073	4.085	-0.012	0.997	997	0.003434			16.1	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.132	4.144	-0.012	1.000	763	0.001256			4.3	M
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.200	755103	0.6629		53.0	2639	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.215	4.226	-0.011	1.224	260561	0.9457		75.7	2088	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.225	4.226	-0.001	1.003	935	0.004975			2.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1040618	0.8603		68.8	6961	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.369	4.358	0.011	1.003	1067	0.004962			7.2	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	289312	1.09		87.4	834	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1035516	0.8537		68.3	4650	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.798	4.799	-0.001	1.047	1017	0.001207	Target=6.06		0.3	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	311		3.27(3.03-9.09)		5.7	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	877986	0.8416		67.3	5045	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfms\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d

Injection Date: 26-Jan-2023 22:54:11

Instrument ID: LC812

Lims ID: 460-273176-A-5-A

Lab Sample ID: 200-273176-5

Client ID: DUP_09_011823_1P

Operator ID: LC812user

ALS Bottle#: 21

Worklist Smp#: 24

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

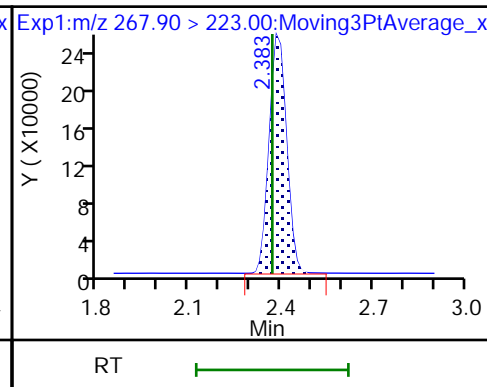
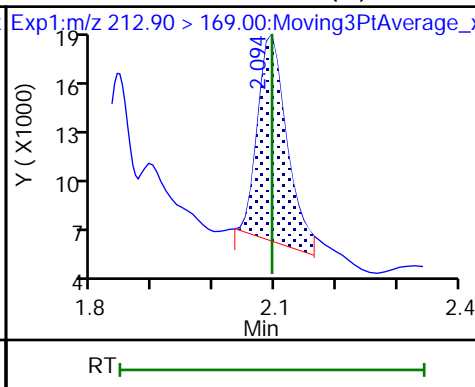
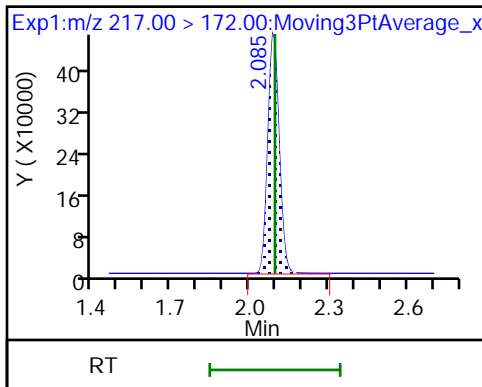
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

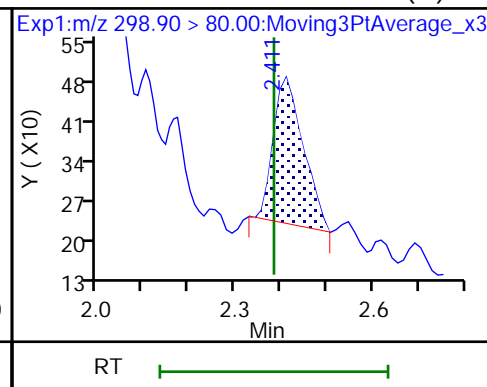
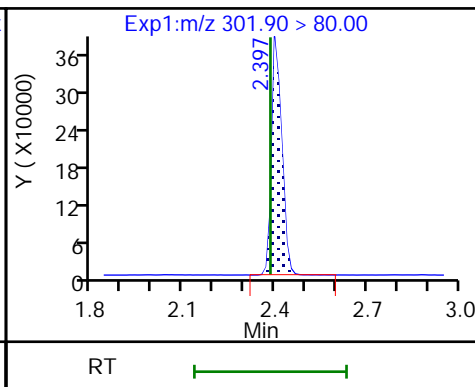
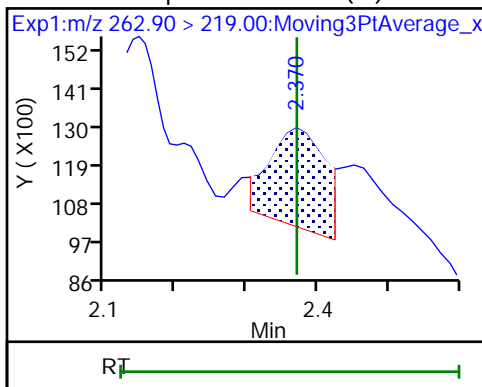
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

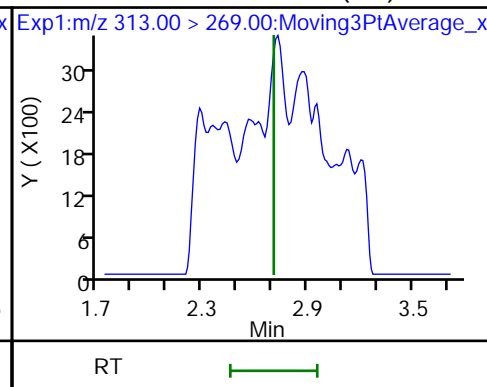
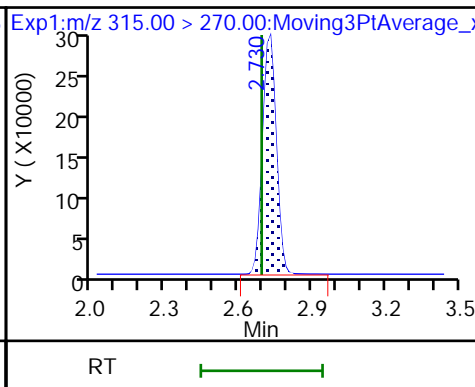
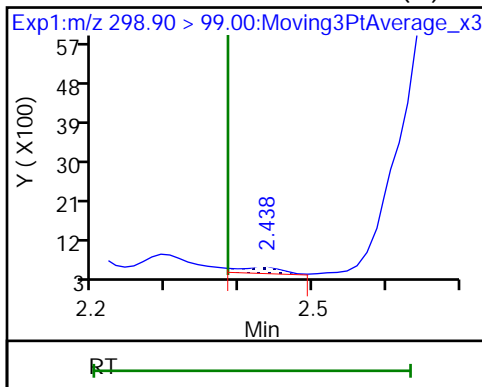
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

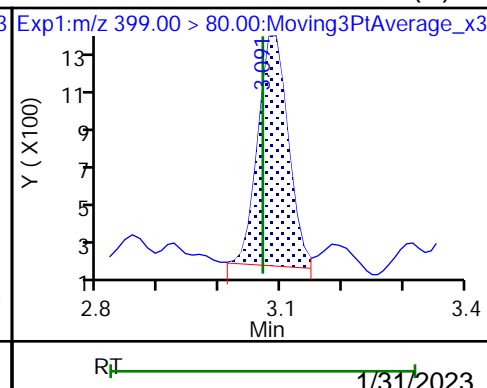
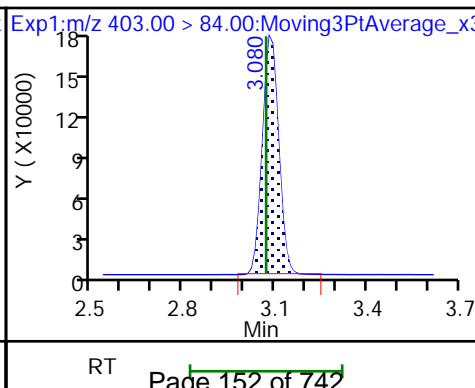
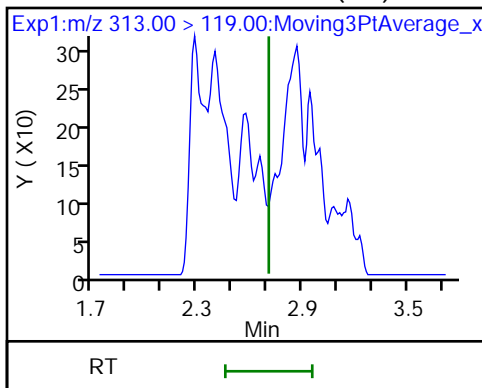
6 Perfluorohexanoic acid (ND)



6 Perfluorohexanoic acid (ND)

D 11 18O2 PFHxS

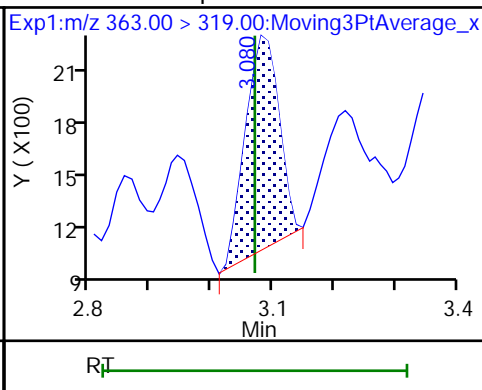
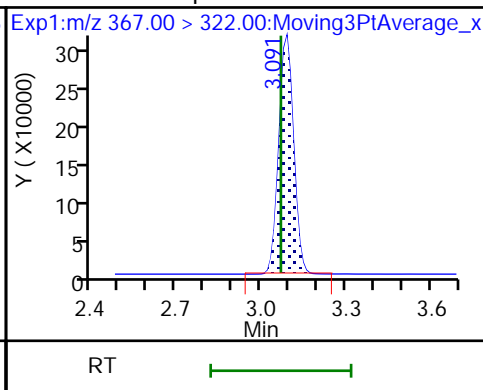
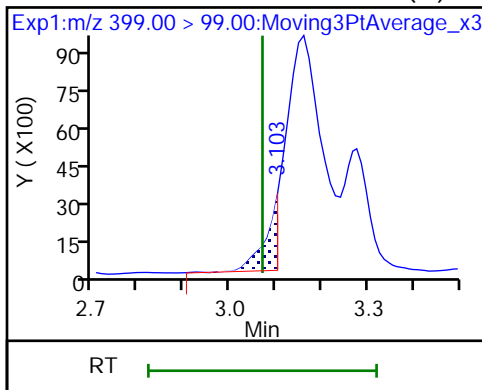
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

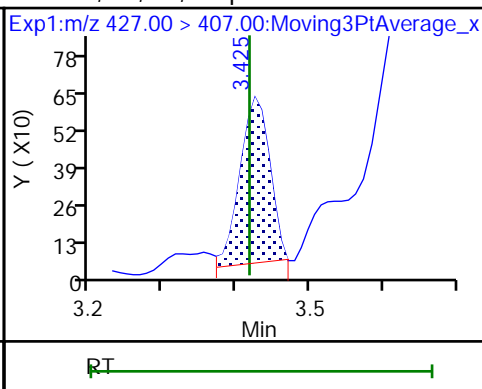
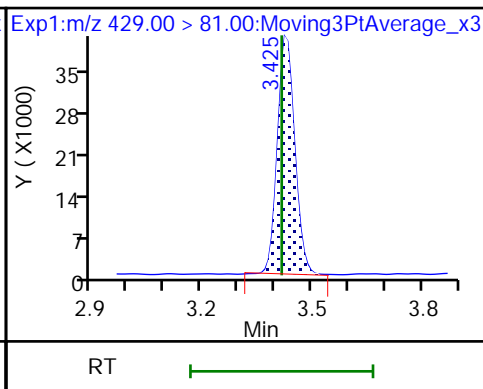
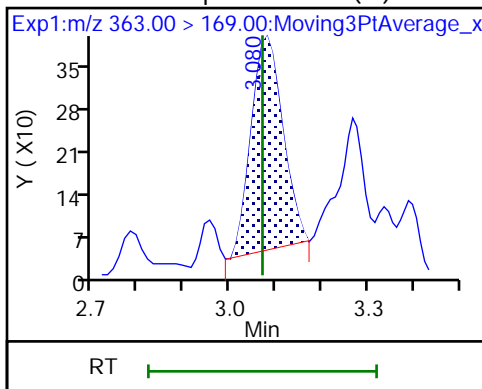
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid (M)

D 12 M2-6:2 FTS

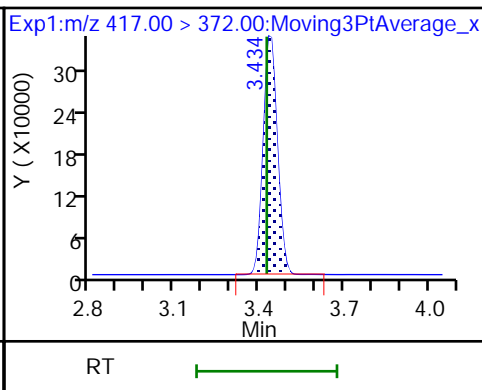
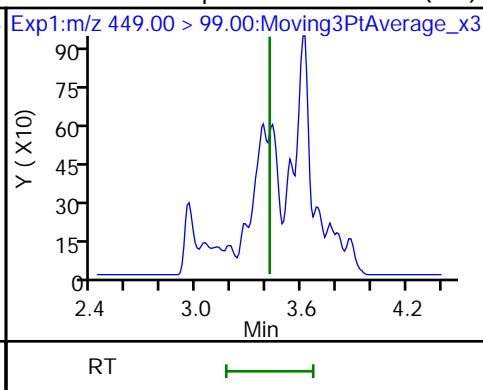
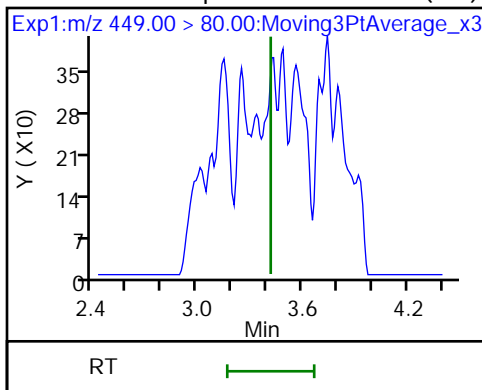
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid (ND)

16 Perfluoroheptanesulfonic acid (ND)

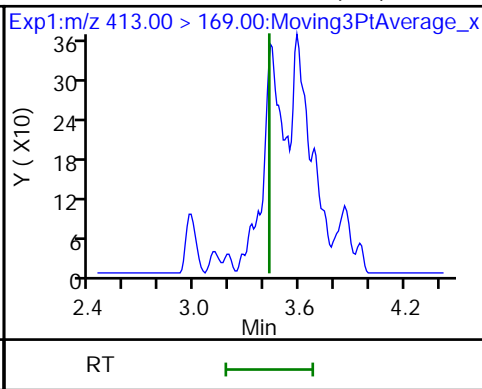
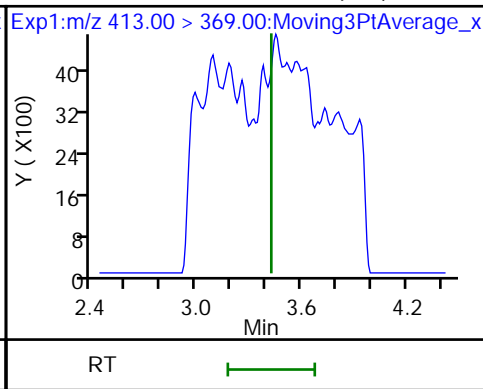
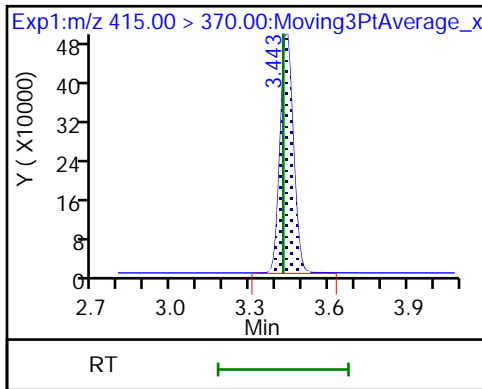
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (ND)

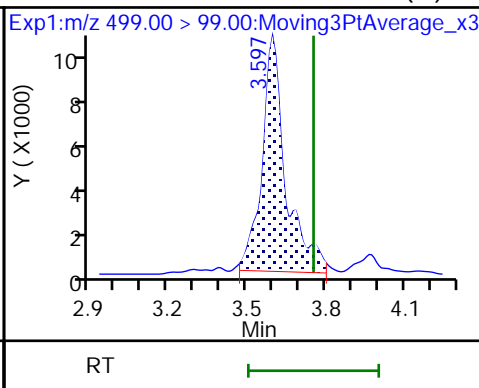
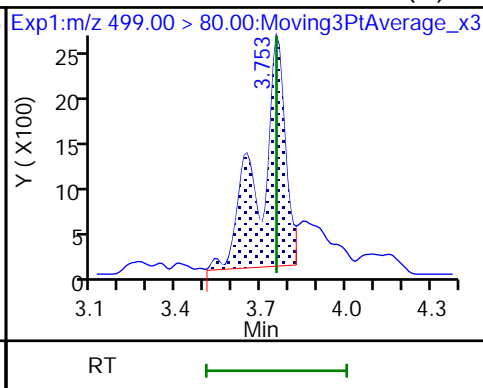
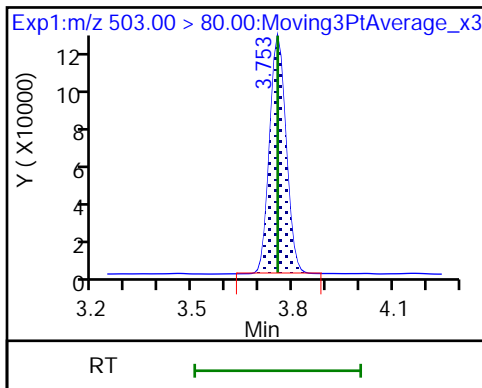
15 Perfluorooctanoic acid (ND)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

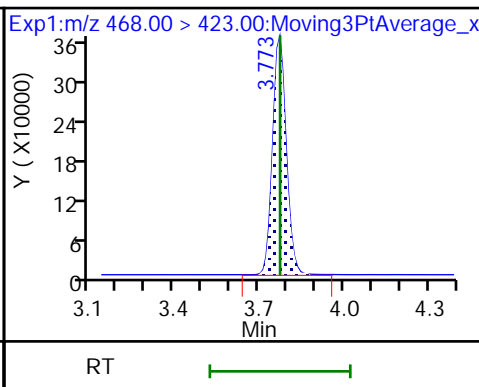
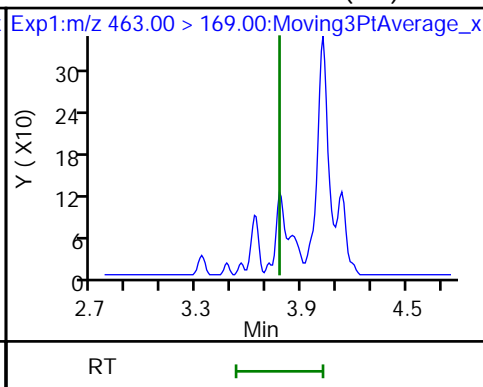
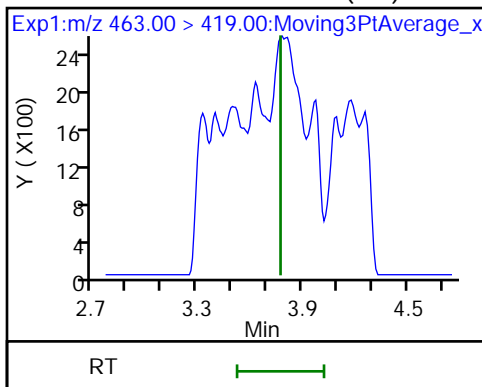
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

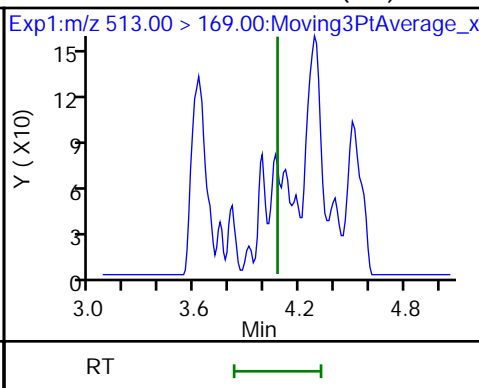
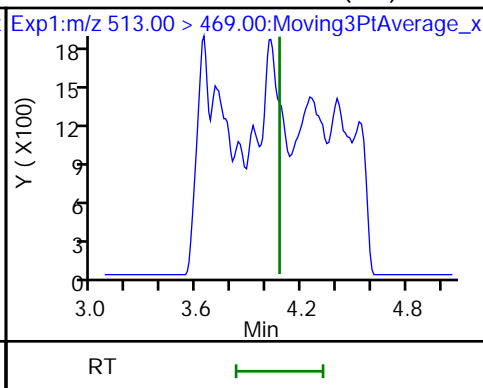
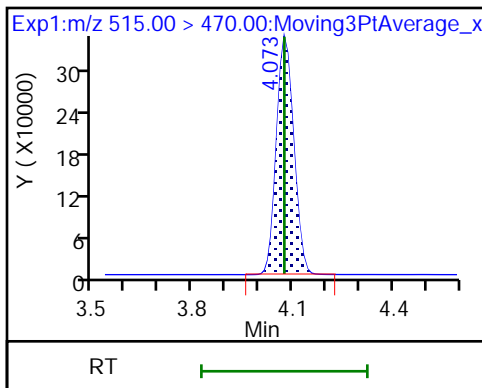
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

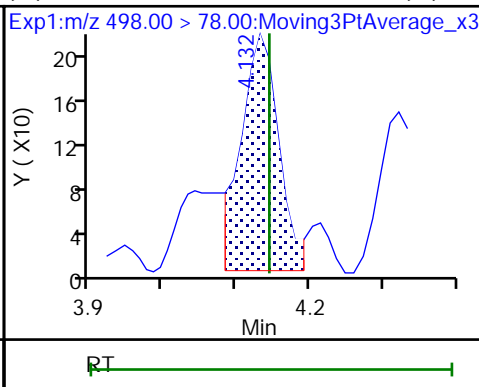
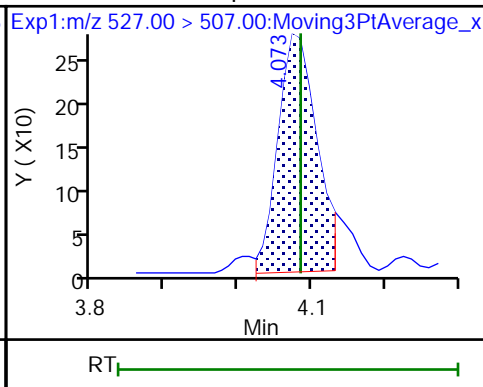
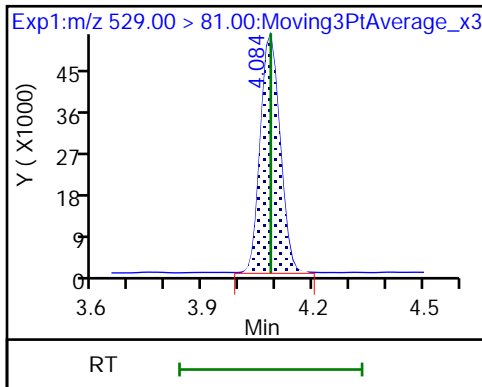
24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

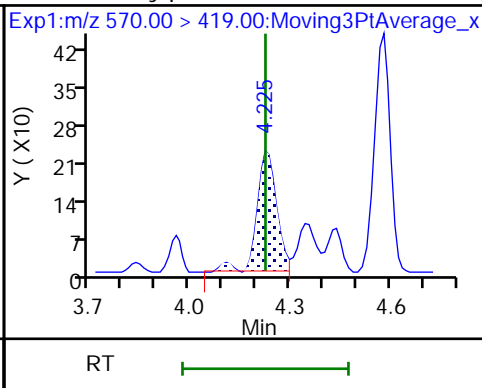
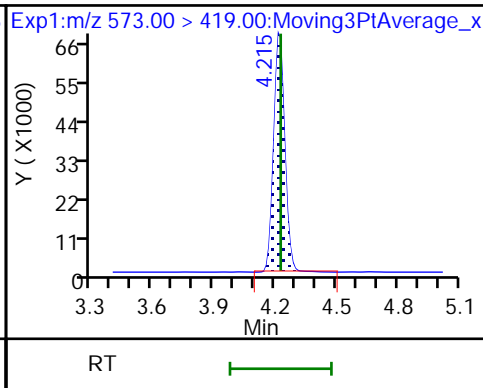
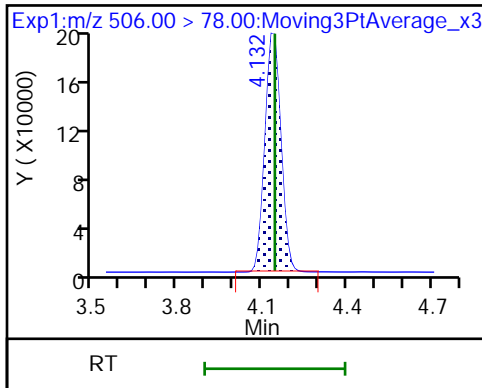
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

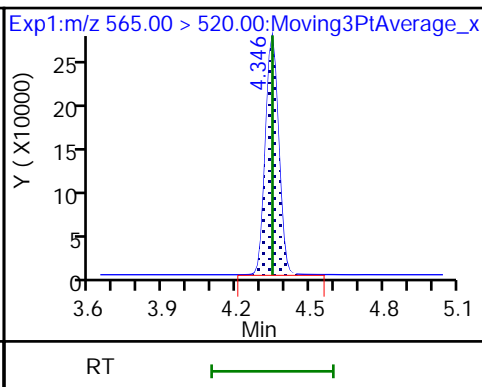
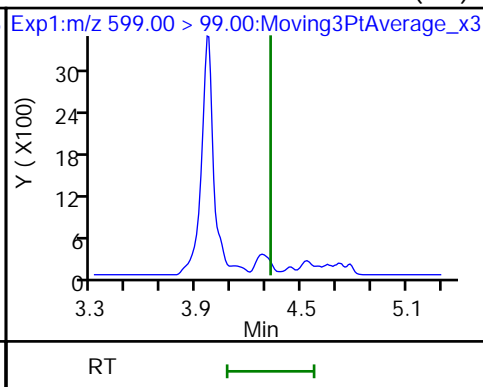
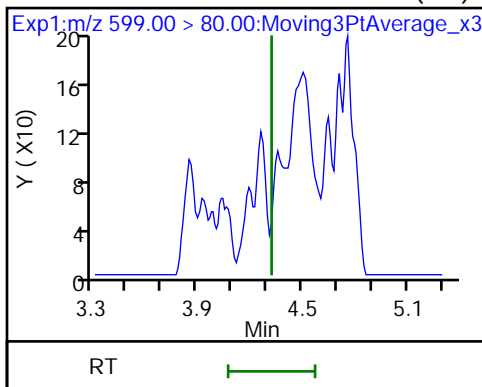
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

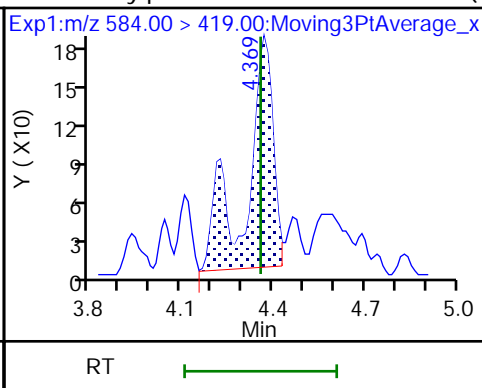
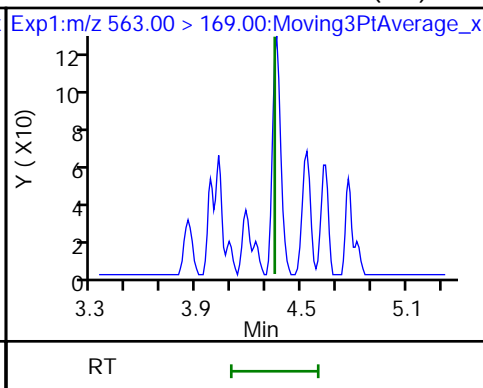
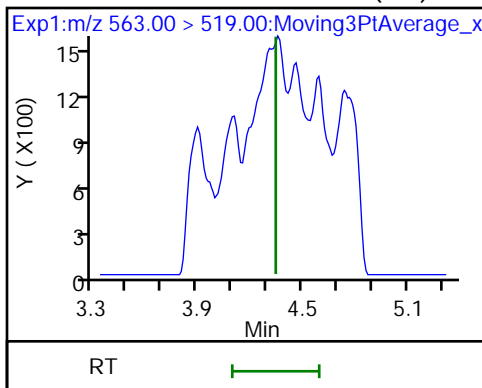
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

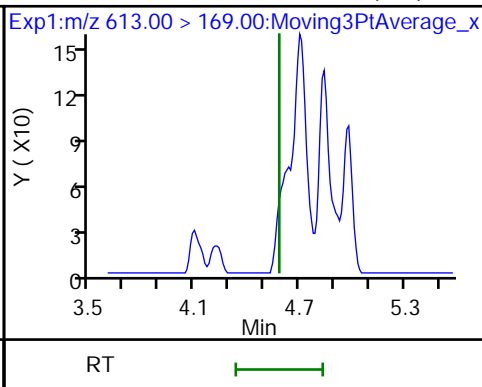
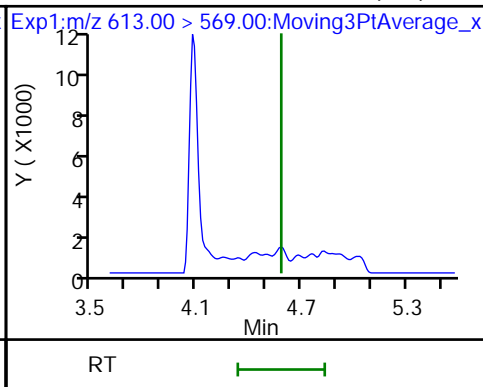
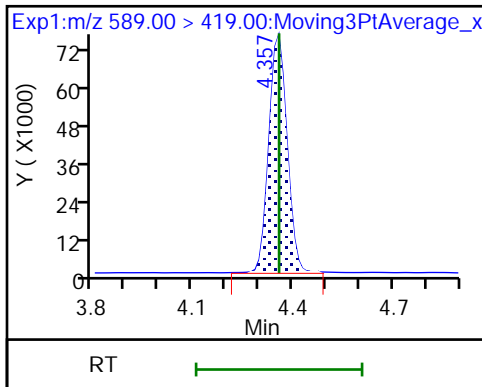
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

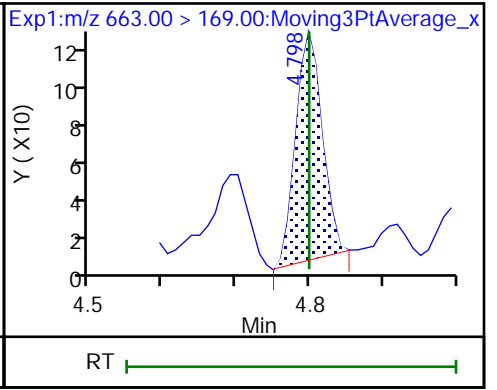
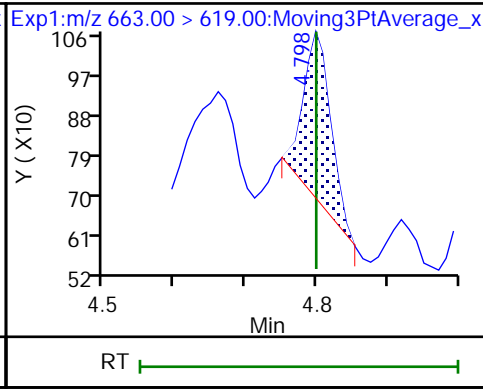
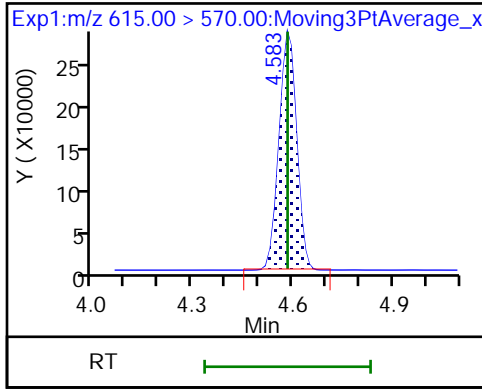
37 Perfluorododecanoic acid (ND)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

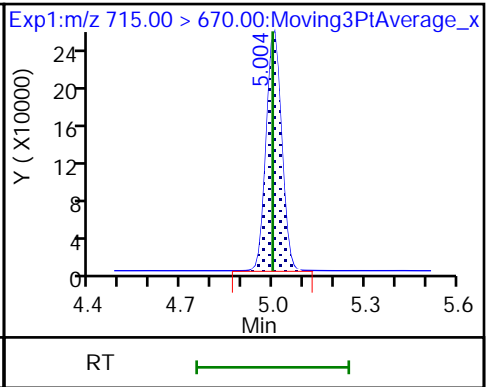
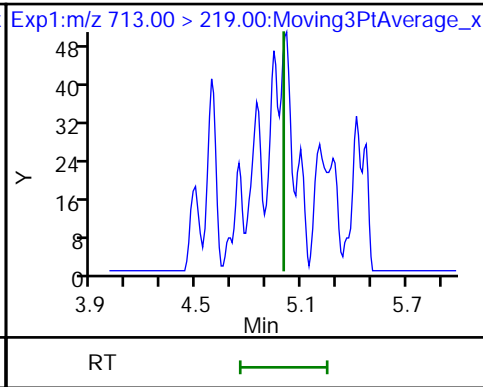
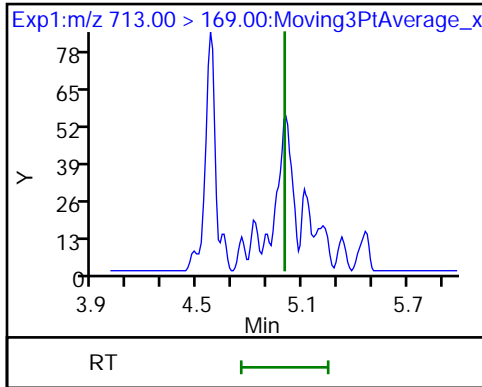
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)

D 43 13C2 PFTeDA



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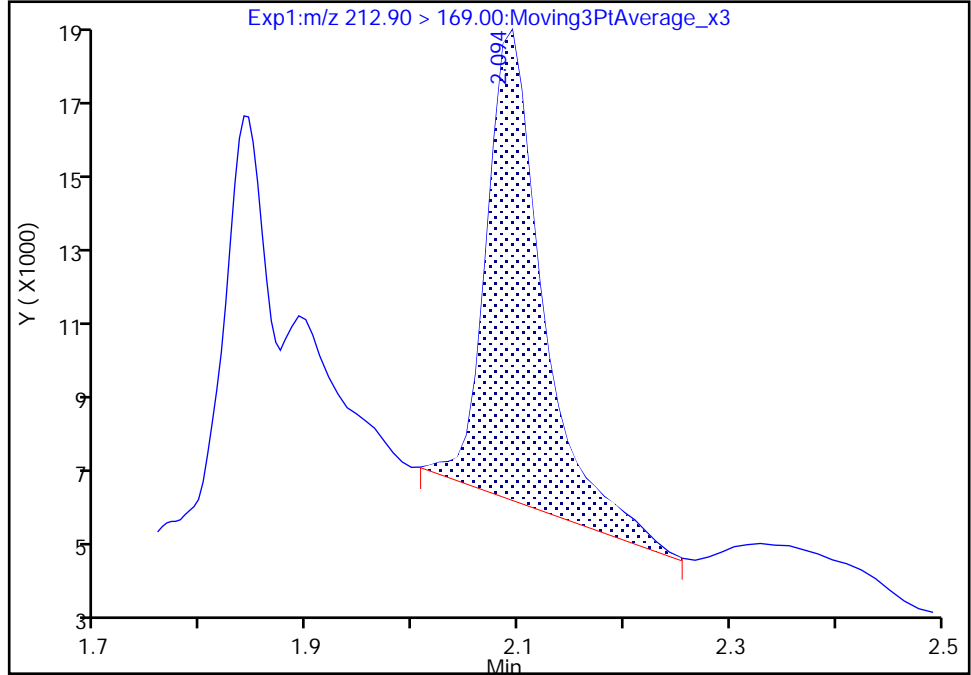
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Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

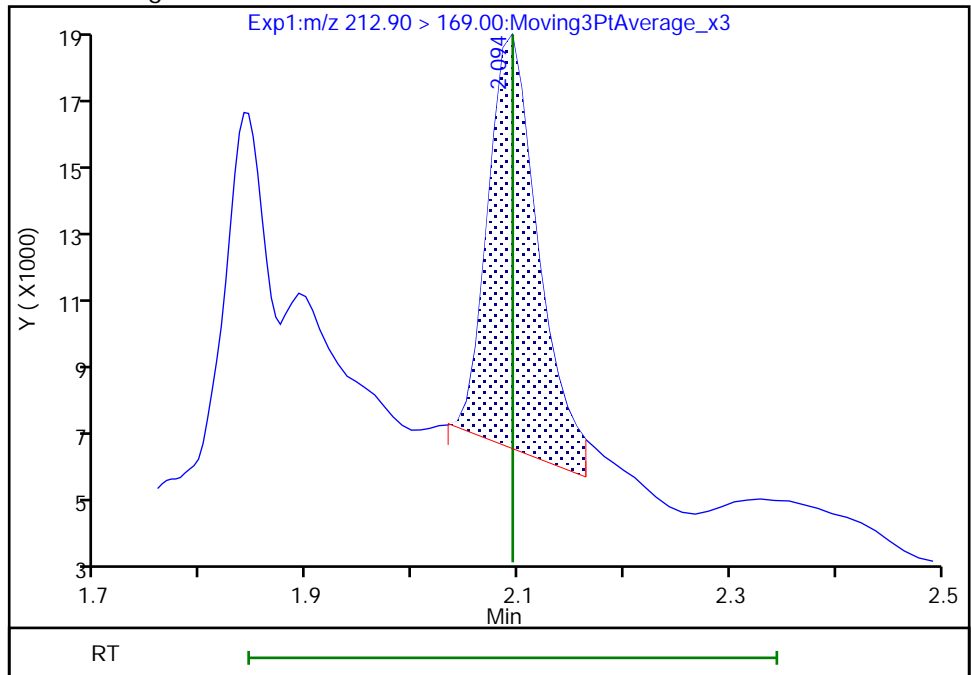
RT: 2.09
Area: 44693
Amount: -0.001401
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 39031
Amount: -0.006721
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:34:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

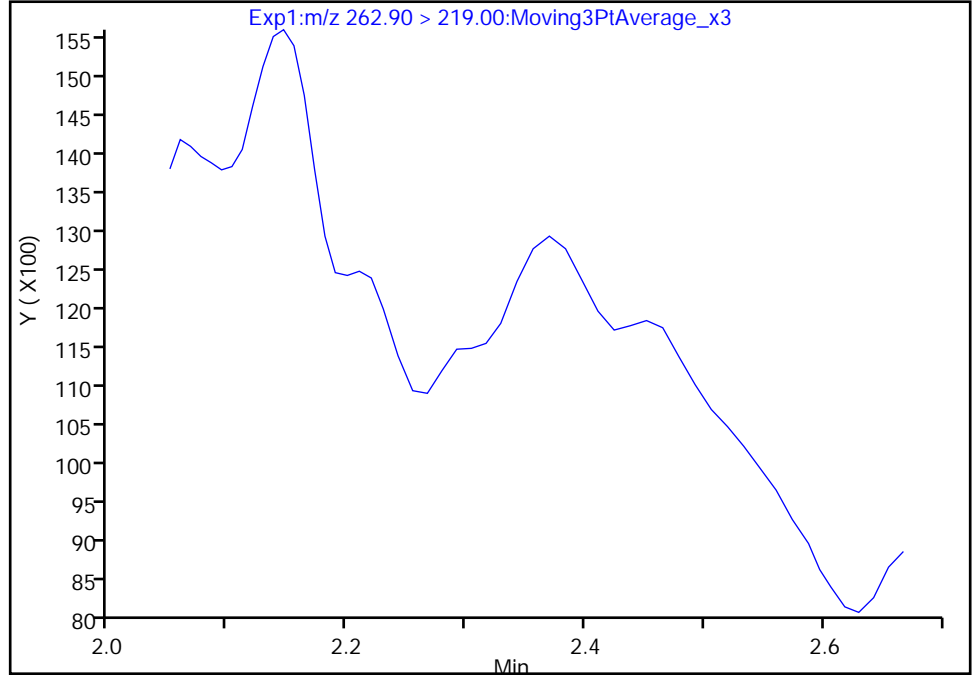
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

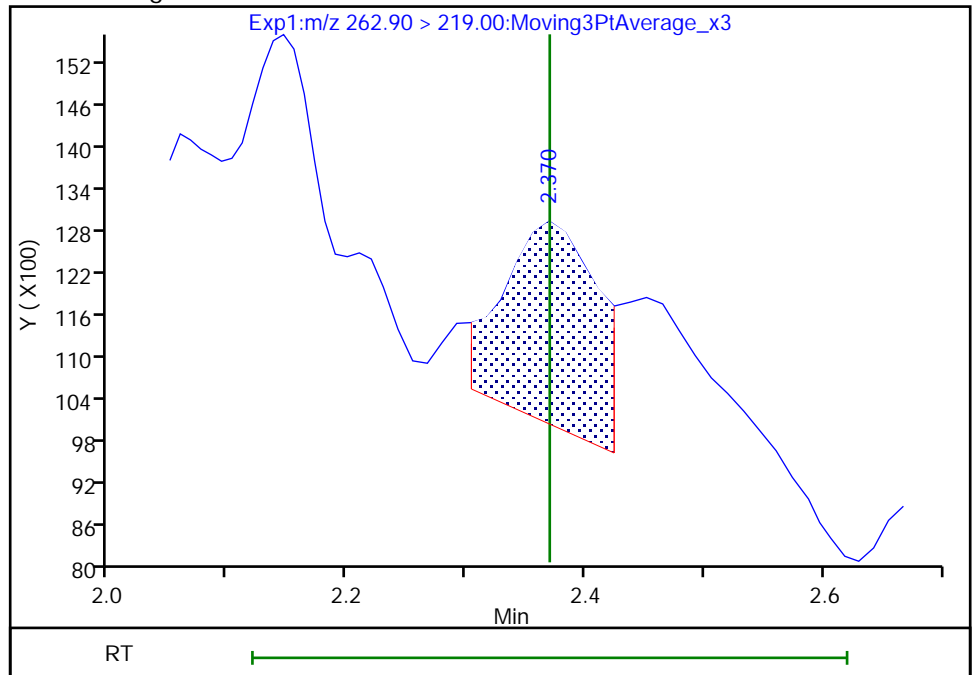
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 15584
Amount: 0.016807
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 18:35:04
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

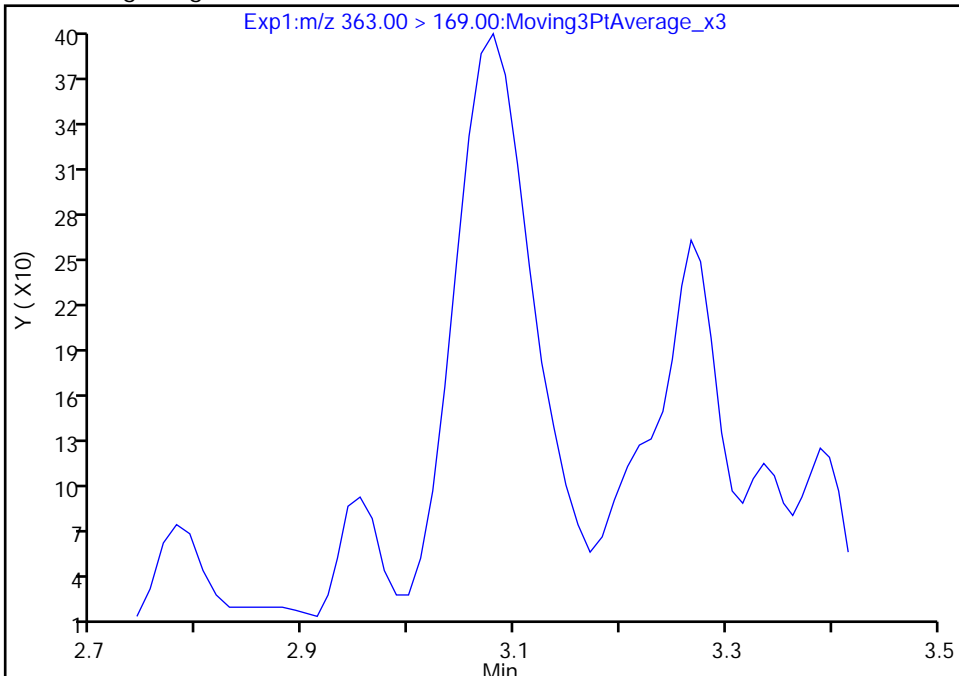
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

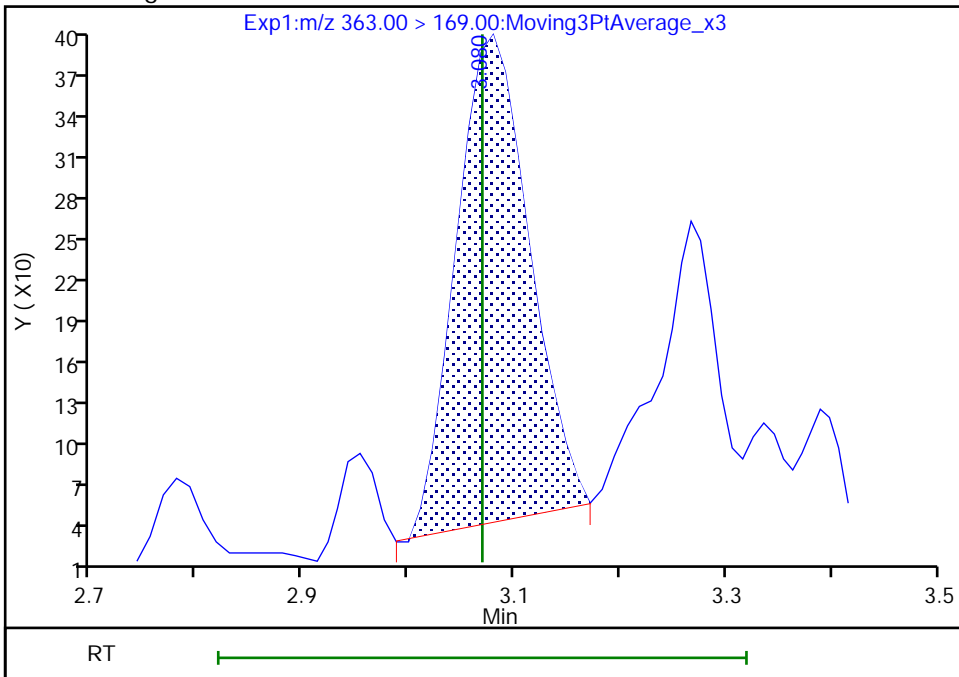
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 1701
Amount: 0.004854
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 18:36:08
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

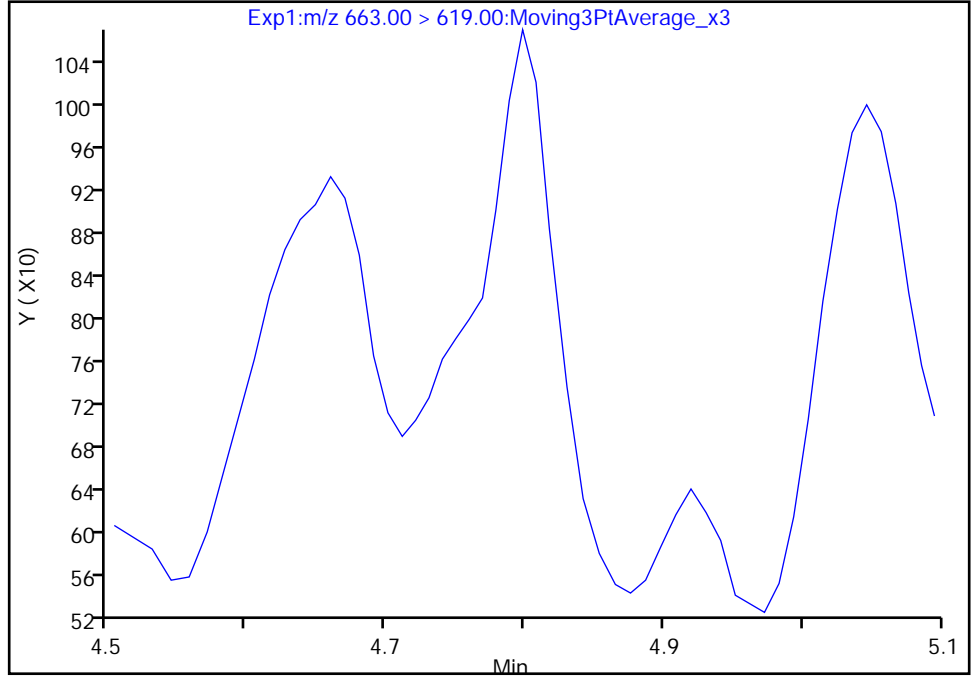
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

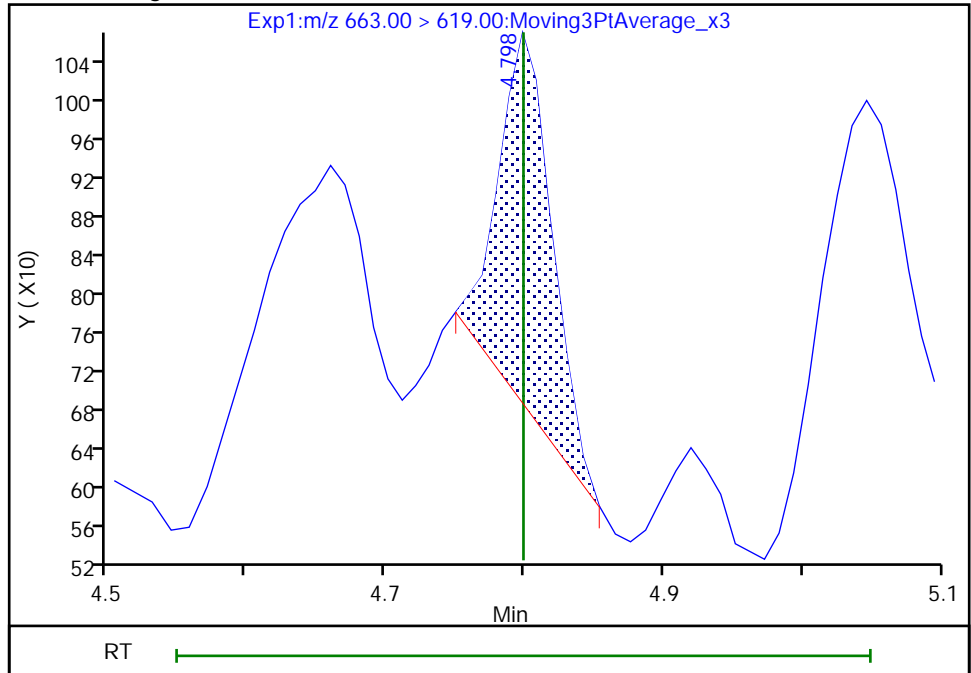
Not Detected
Expected RT: 4.80

Processing Integration Results



RT: 4.80
Area: 1017
Amount: 0.001207
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:38:35
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

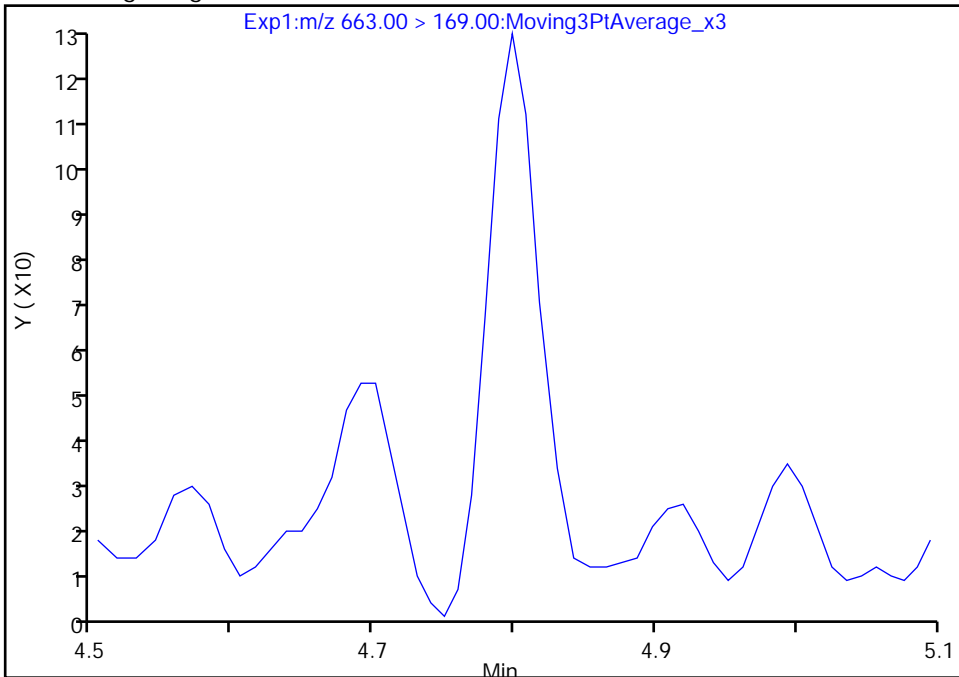
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

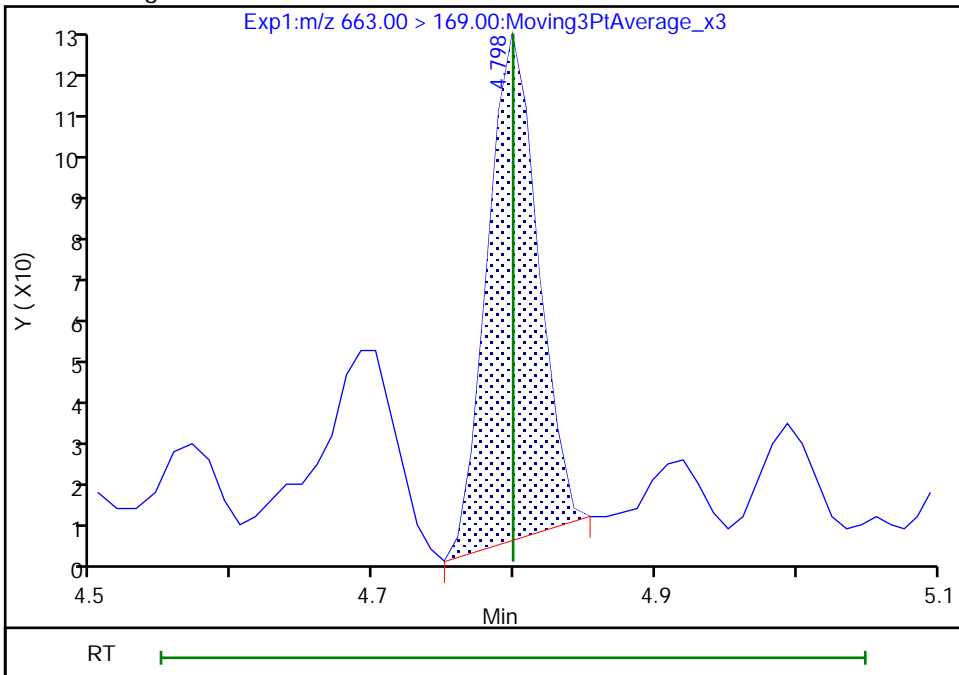
Not Detected
Expected RT: 4.80

Processing Integration Results



RT: 4.80
Area: 311
Amount: 0.001207
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:38:38

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

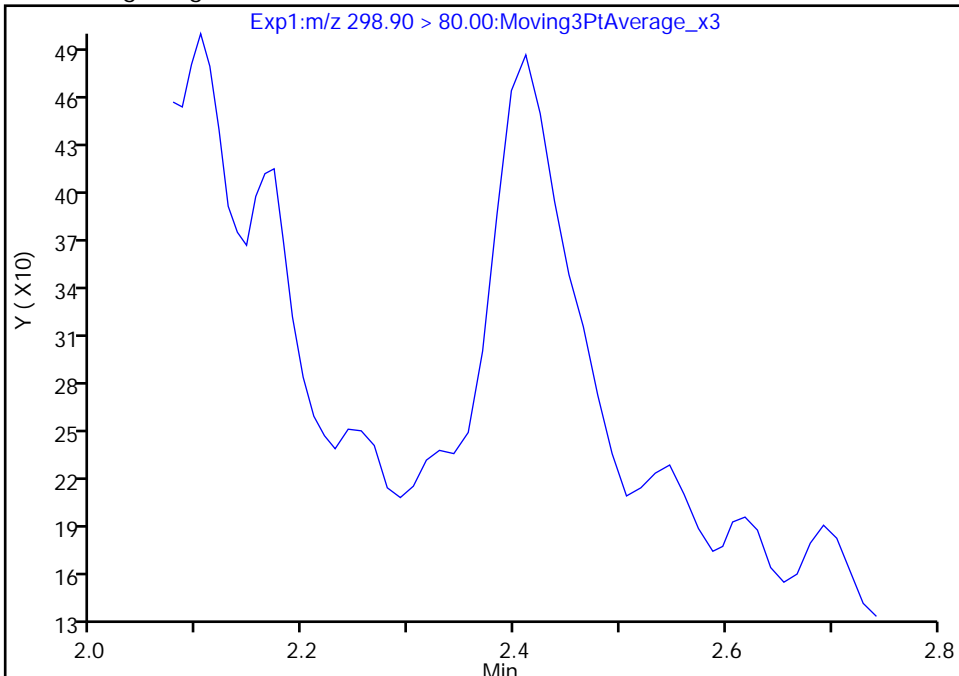
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Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

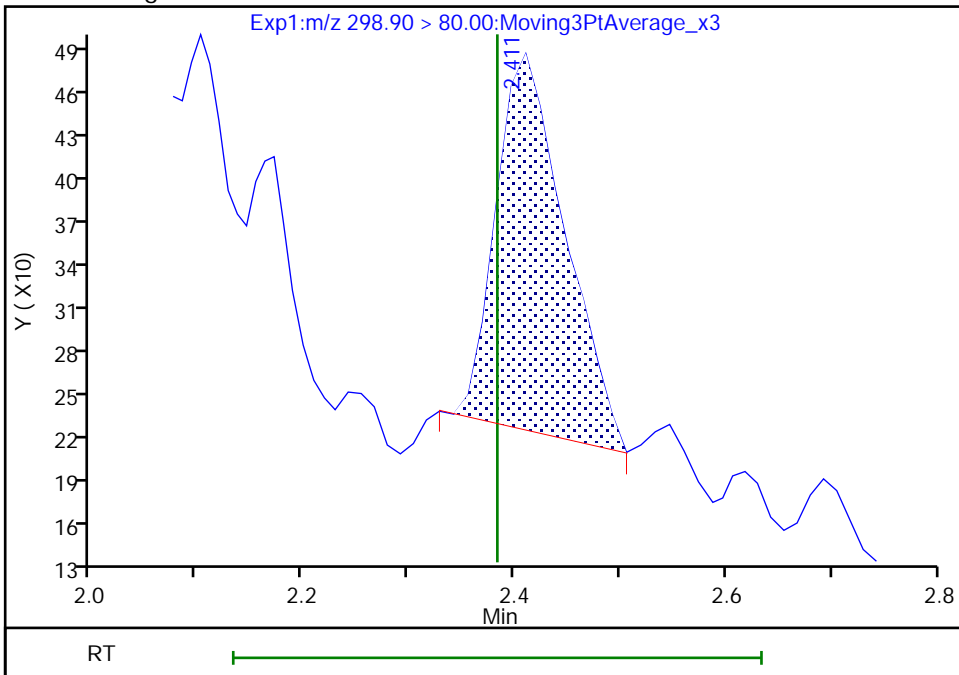
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1162
Amount: 0.001448
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 18:35:18
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

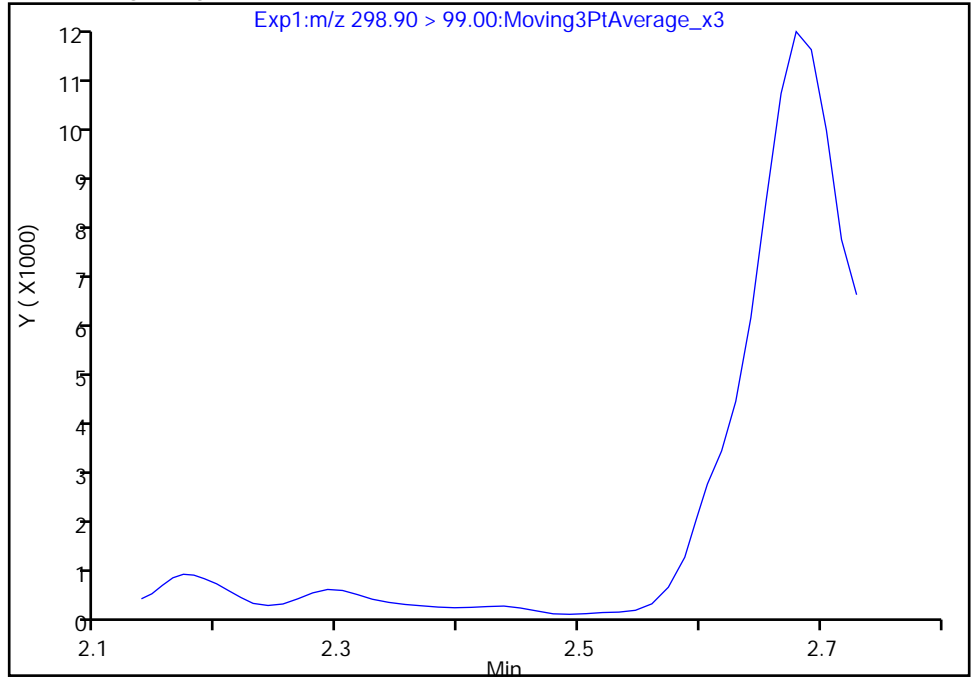
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

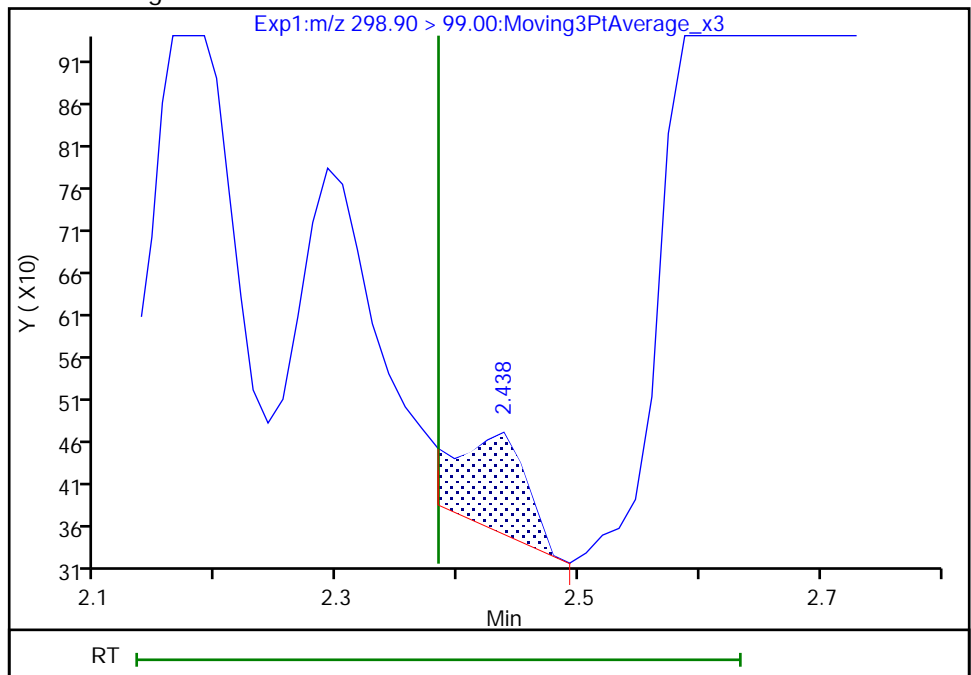
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.44
Area: 435
Amount: 0.001448
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 18:35:29

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

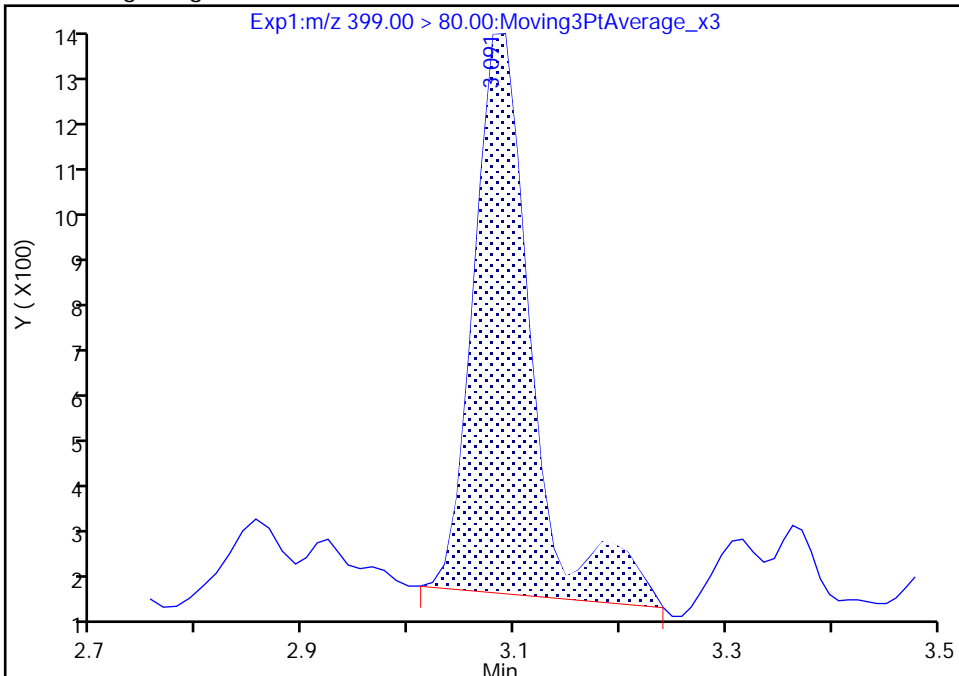
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

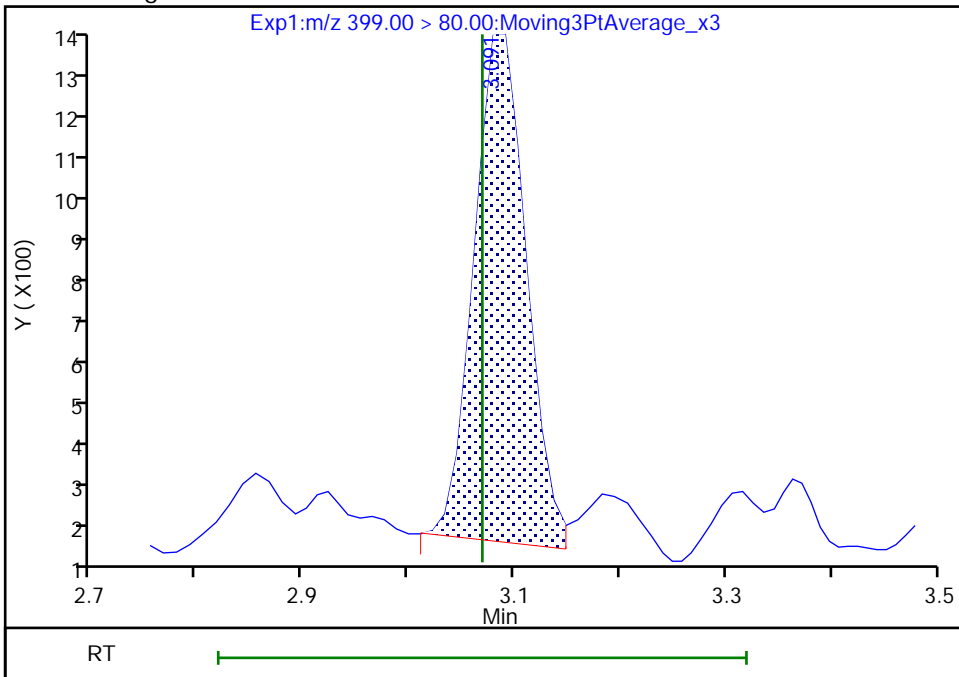
RT: 3.09
Area: 4641
Amount: 0.007601
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 4218
Amount: 0.006908
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:35:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

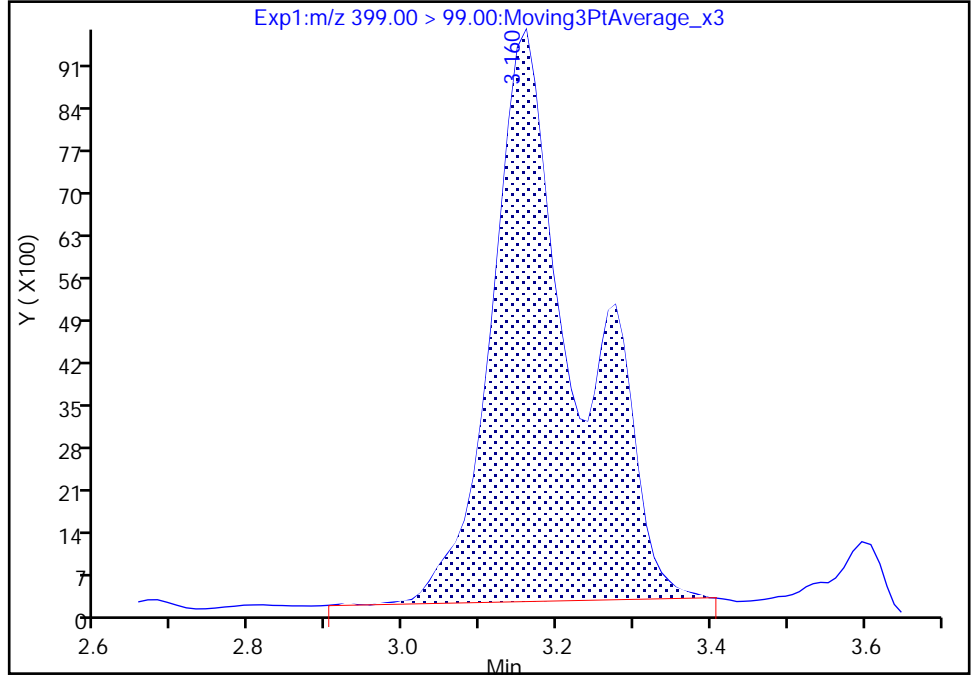
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

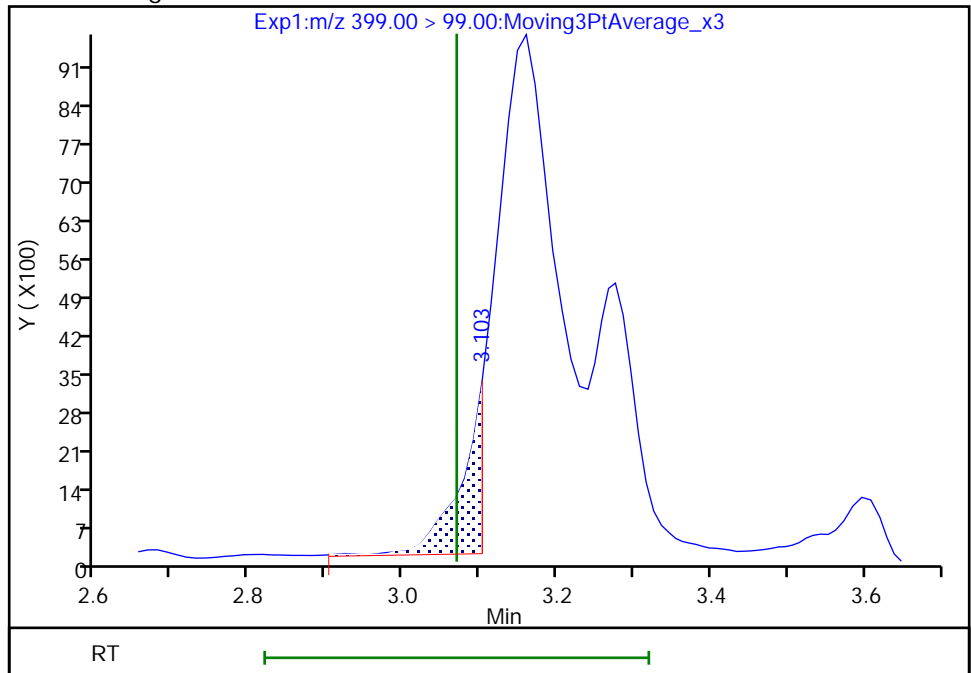
RT: 3.16
Area: 73554
Amount: 0.007601
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 5717
Amount: 0.006908
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:35:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

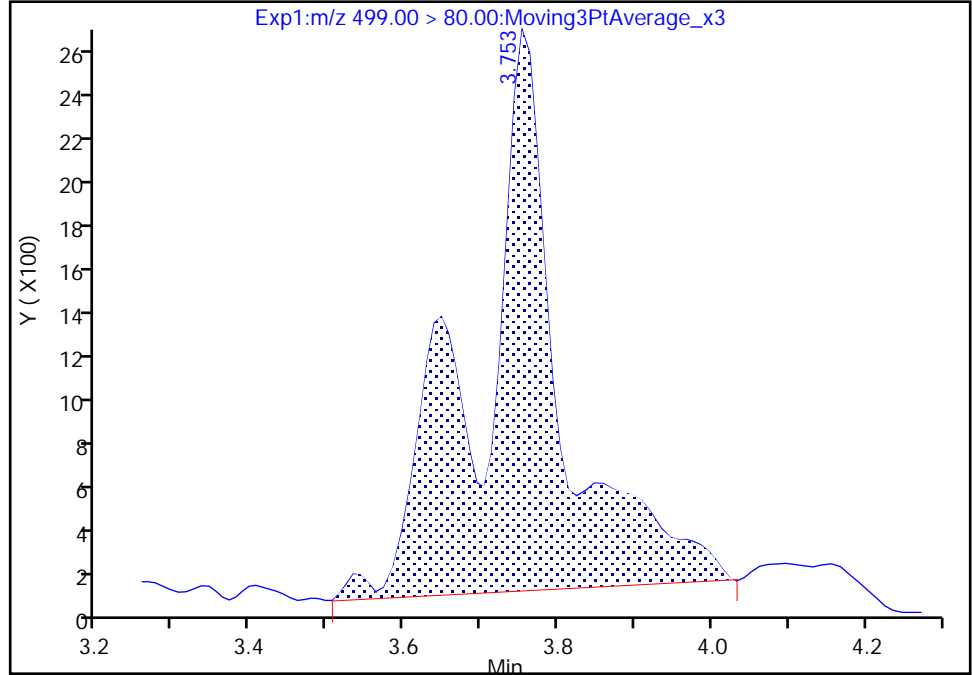
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Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

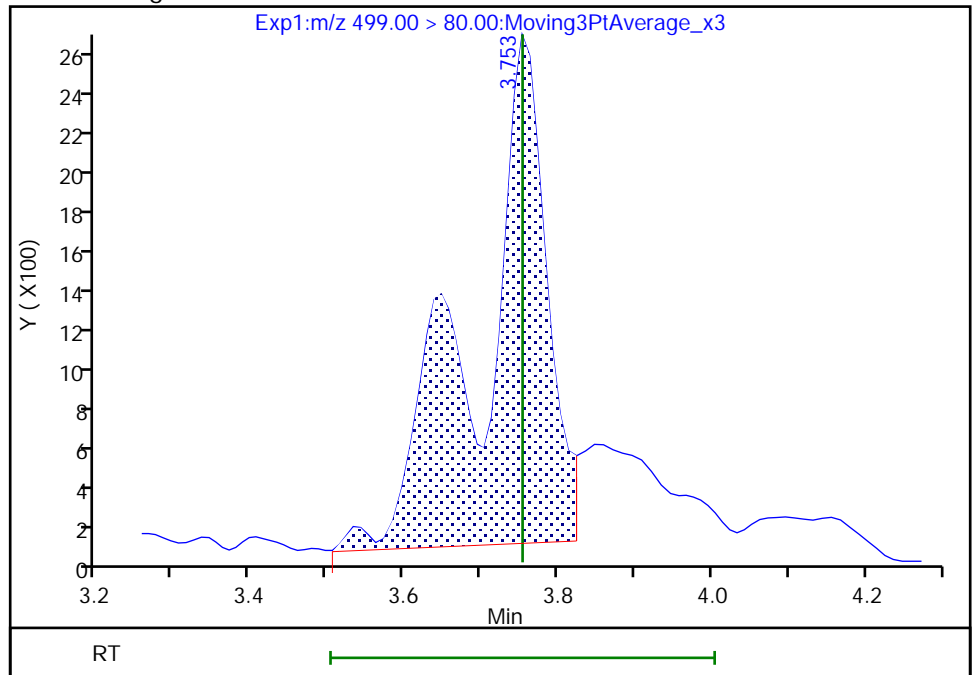
RT: 3.75
Area: 19242
Amount: 0.045299
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 15697
Amount: 0.036953
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:36:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

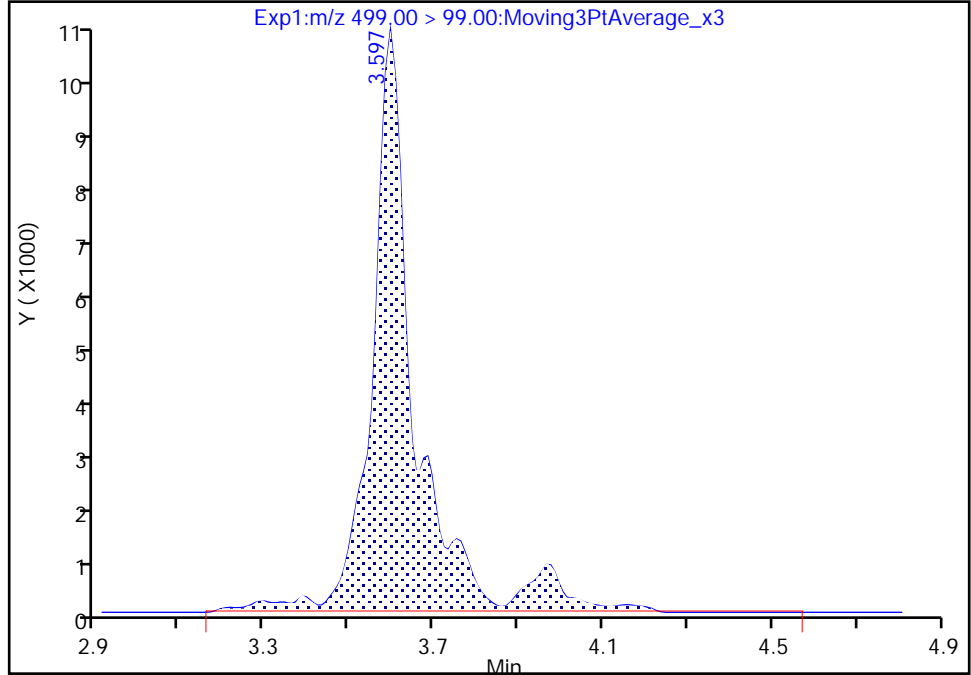
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Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

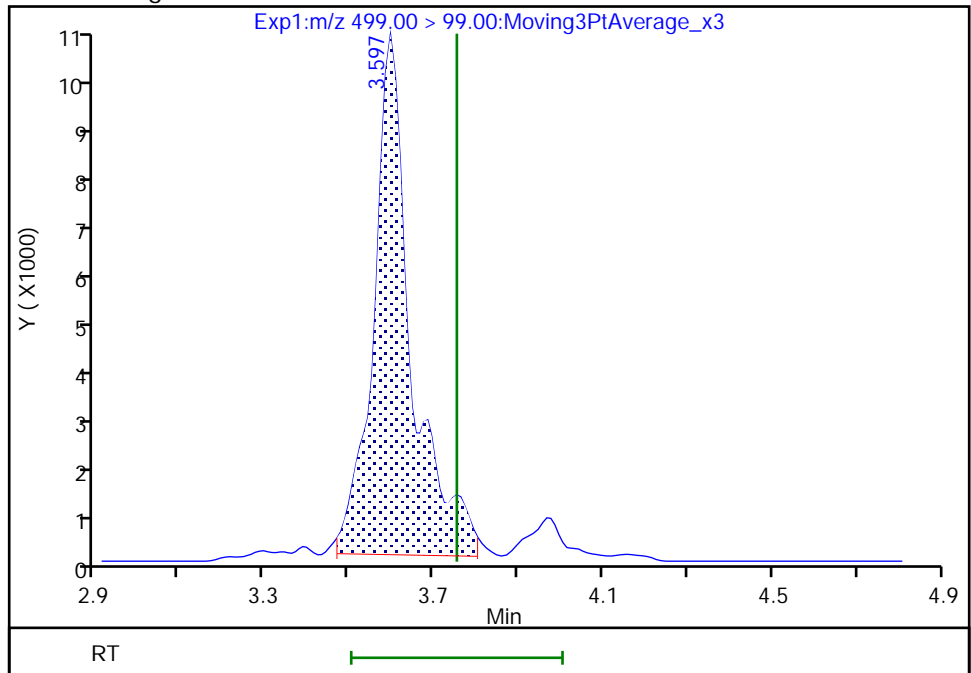
RT: 3.60
Area: 74553
Amount: 0.045299
Amount Units: ng/ml

Processing Integration Results



RT: 3.60
Area: 62461
Amount: 0.036953
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:37:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

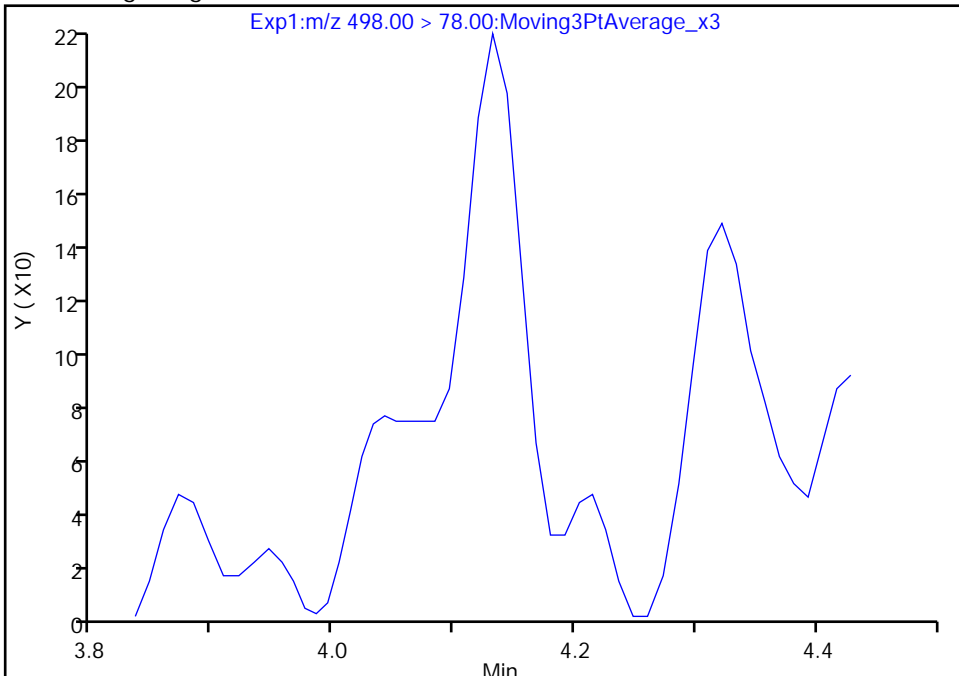
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

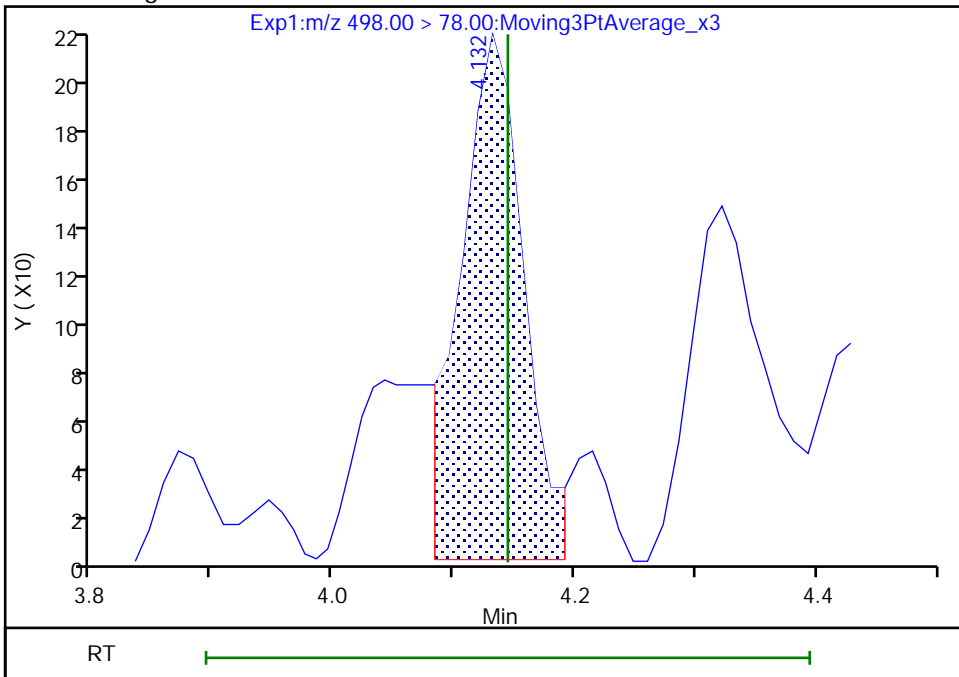
Not Detected
Expected RT: 4.14

Processing Integration Results



RT: 4.13
Area: 763
Amount: 0.001256
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:37:46
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

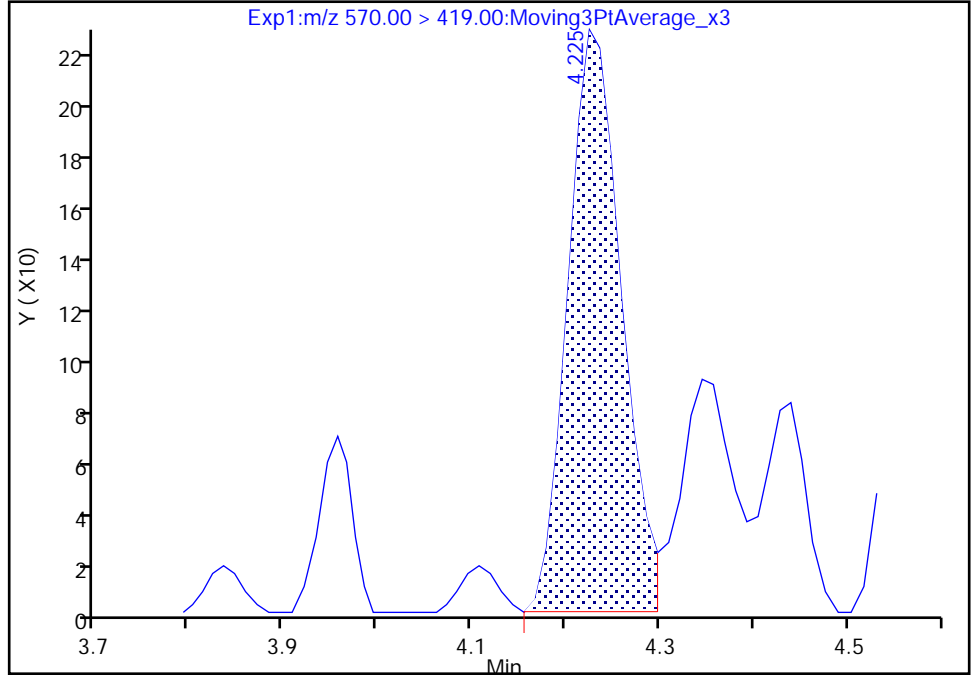
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

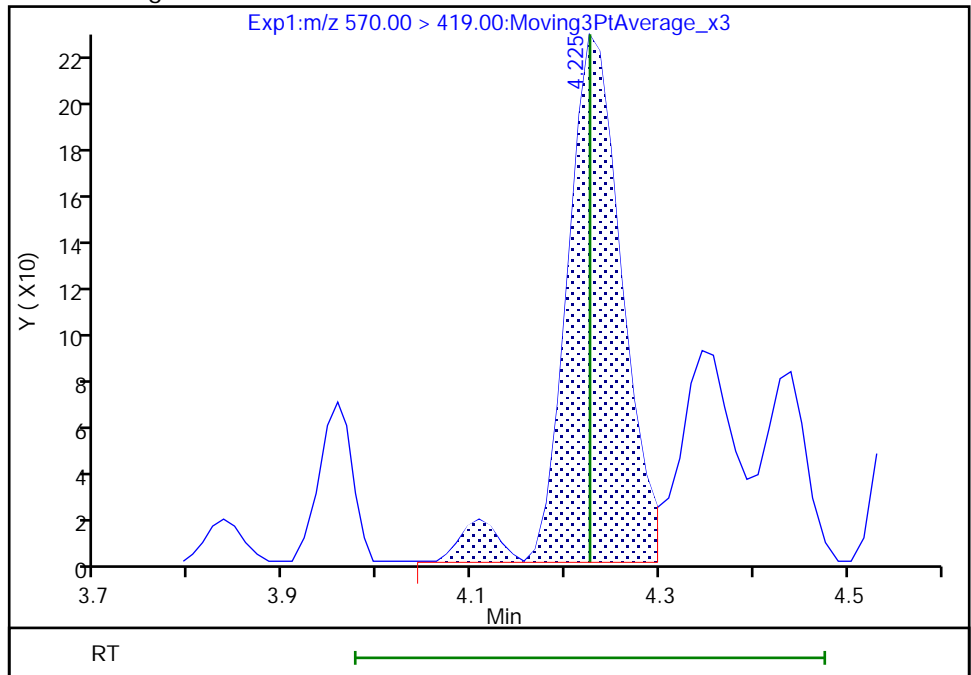
RT: 4.23
Area: 885
Amount: 0.004709
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 935
Amount: 0.004975
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:37:58
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

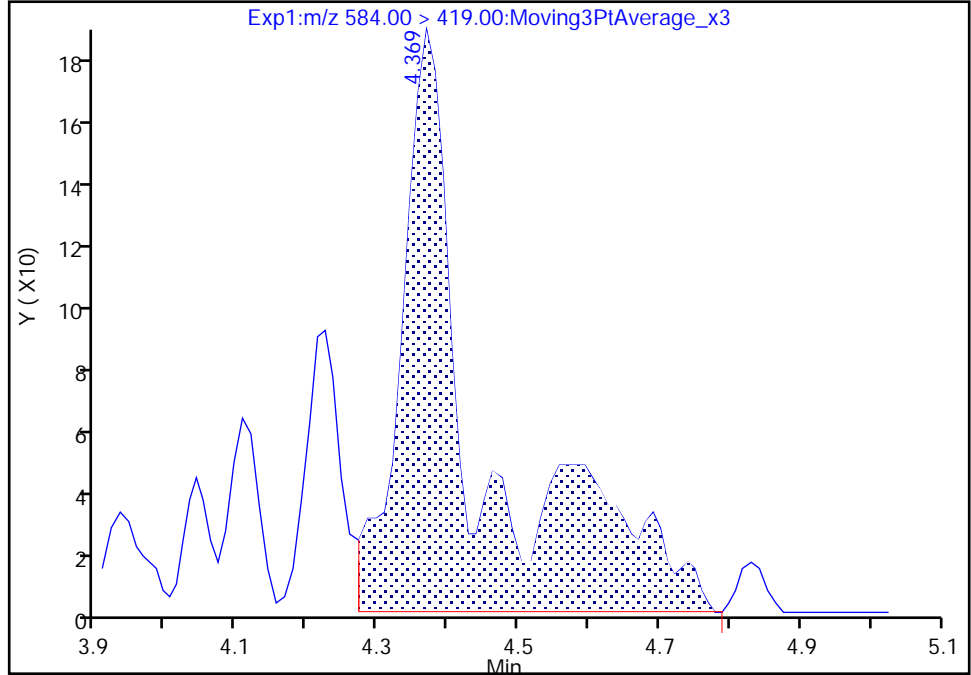
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Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

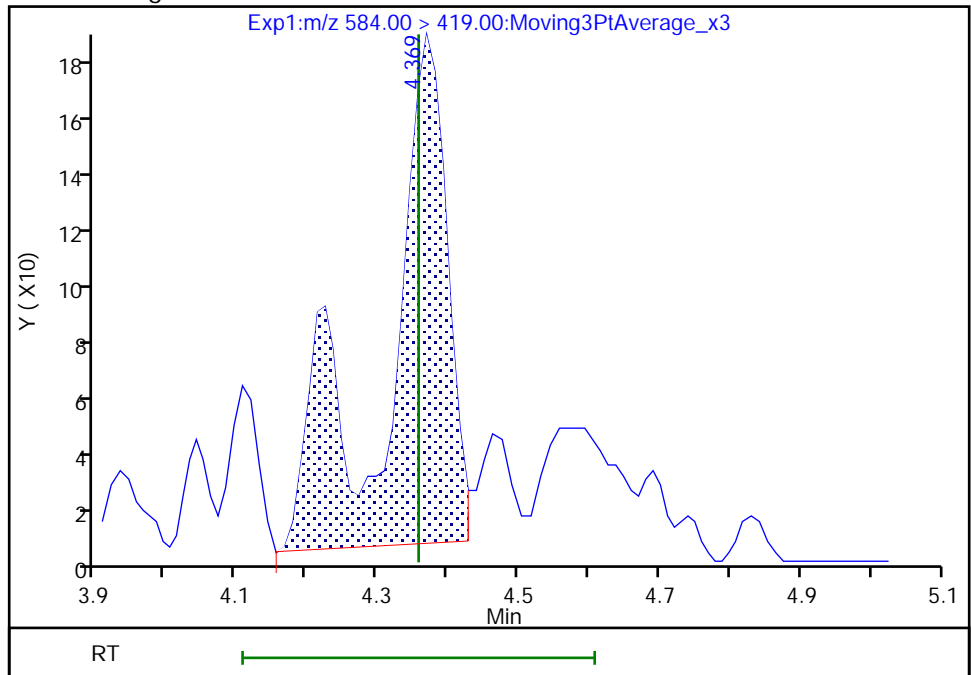
RT: 4.37
Area: 1453
Amount: 0.006757
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 1067
Amount: 0.004962
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:38:20
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

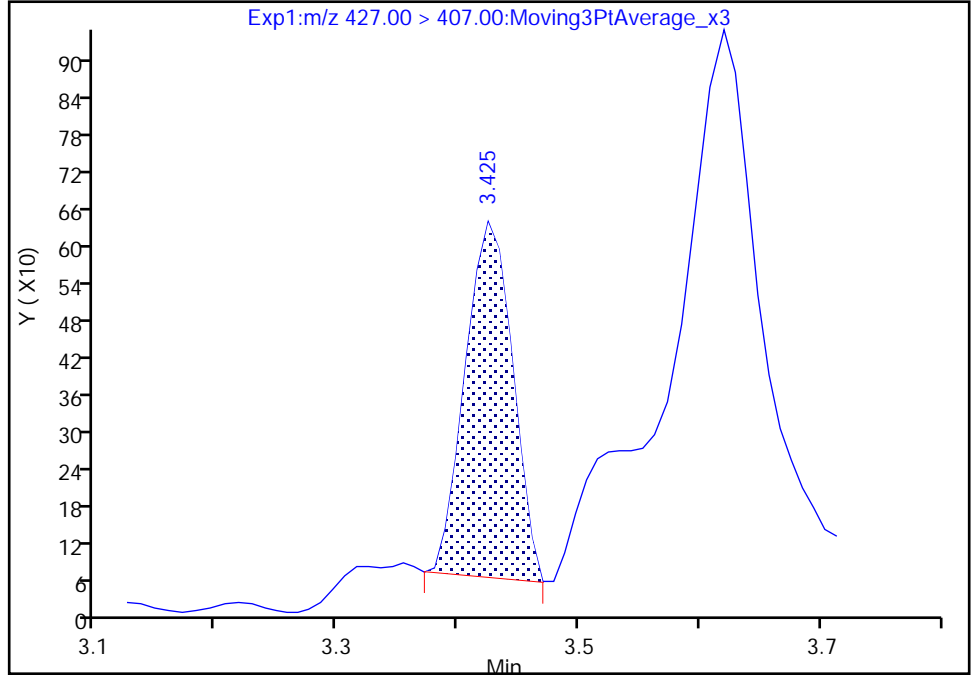
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

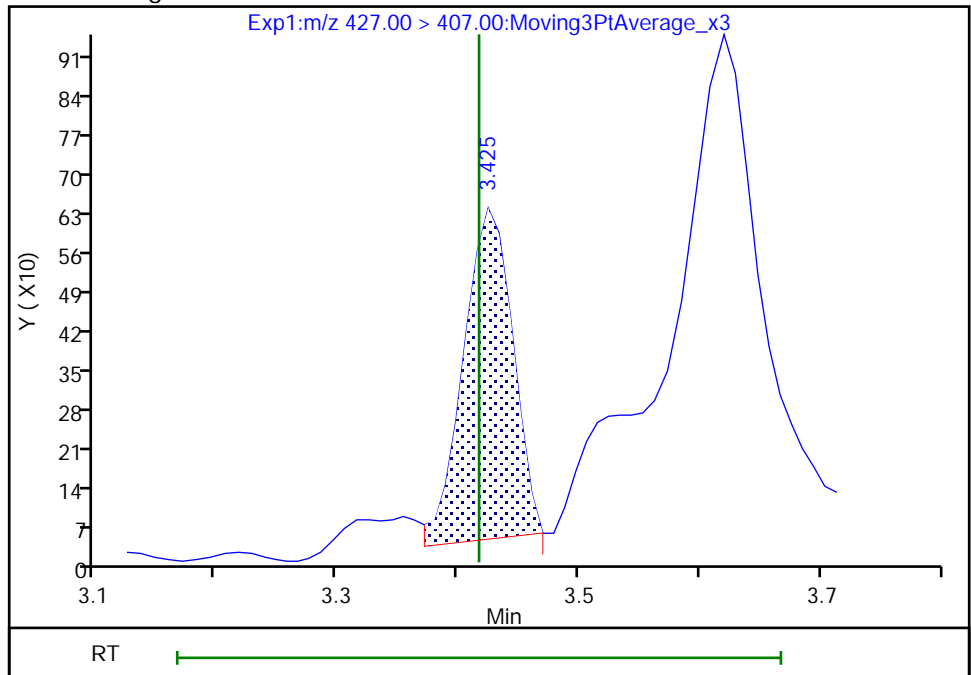
RT: 3.42
Area: 1561
Amount: 0.006060
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 1679
Amount: 0.006518
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:36:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

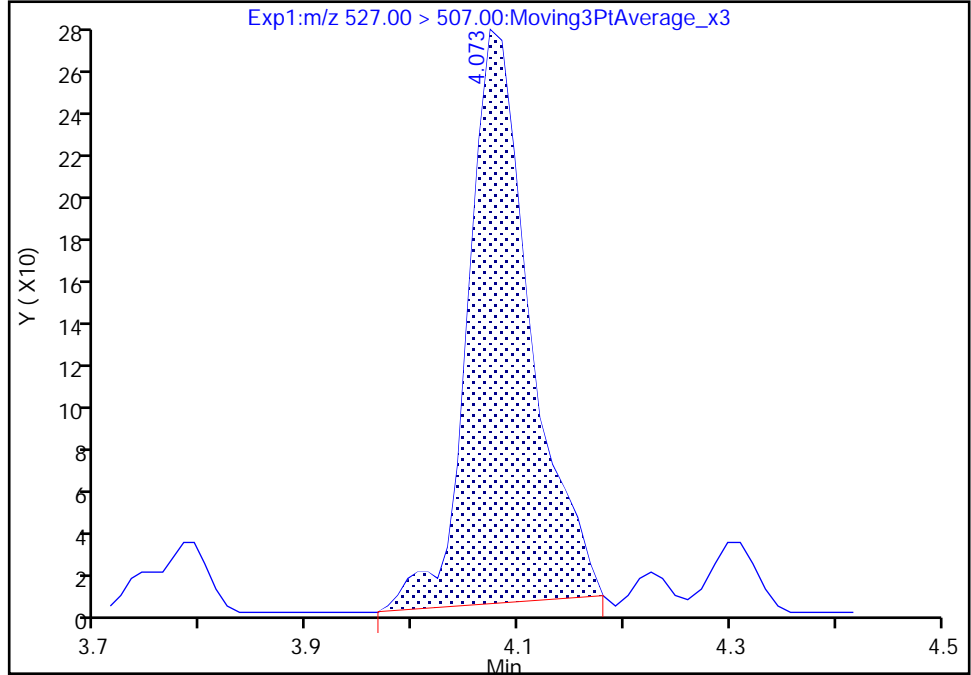
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A24.d
Injection Date: 26-Jan-2023 22:54:11 Instrument ID: LC812
Lims ID: 460-273176-A-5-A Lab Sample ID: 200-273176-5
Client ID: DUP_09_011823_1P
Operator ID: LC812user ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

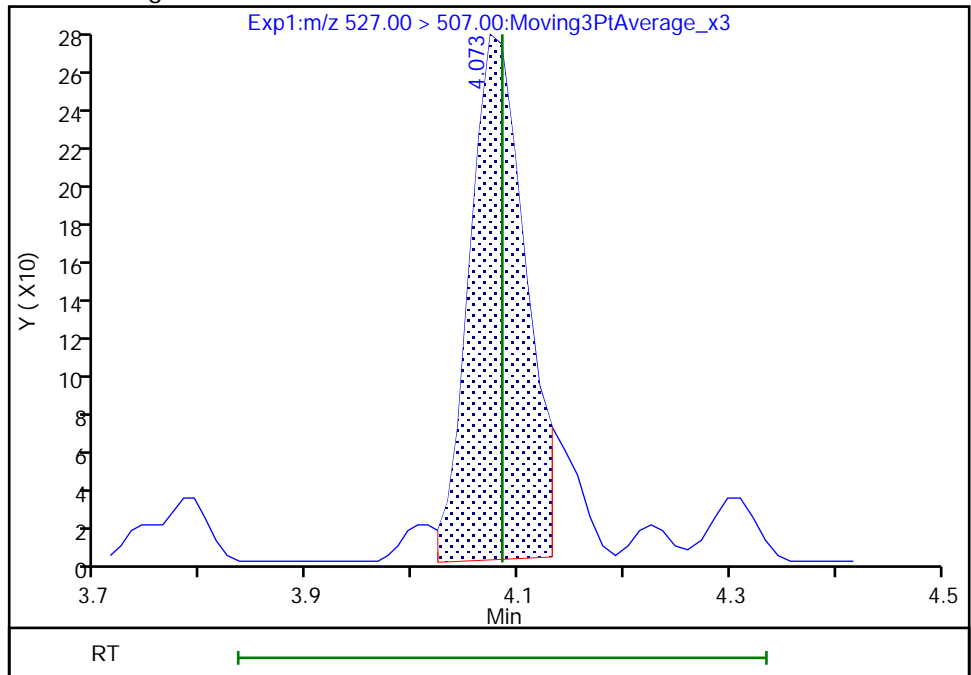
RT: 4.07
Area: 1112
Amount: 0.003830
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 997
Amount: 0.003434
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:37:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: DUP_09_011823_2P Lab Sample ID: 460-273176-6
 Matrix: Solid Lab File ID: PA230126A29.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:55
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.16(g) Date Analyzed: 01/26/2023 23:34
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 36.1 % Solids: 63.9 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.50
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.30	U	0.30	0.083
307-24-4	Perfluorohexanoic acid (PFHxA)	0.092	J	0.30	0.070
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.30	U	0.30	0.059
335-67-1	Perfluorooctanoic acid (PFOA)	0.30	U	0.30	0.088
375-95-1	Perfluorononanoic acid (PFNA)	0.30	U	0.30	0.052
335-76-2	Perfluorodecanoic acid (PFDA)	0.30	U	0.30	0.042
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.30	U	0.30	0.041
307-55-1	Perfluorododecanoic acid (PFDoA)	0.30	U	0.30	0.038
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.30	U	0.30	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.30	U	0.30	0.039
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.30	U	0.30	0.050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.30	U	0.30	0.062
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.30	U	0.30	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.30	U	0.30	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.30	U	0.30	0.029
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.30	U	0.30	0.052
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.03	U	3.03	0.17
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.03	U	3.03	0.13
27619-97-2	6:2 FTS	3.03	U	3.03	0.086
39108-34-4	8:2 FTS	3.03	U	3.03	0.056

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: DUP_09_011823_2P Lab Sample ID: 460-273176-6
 Matrix: Solid Lab File ID: PA230126A29.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:55
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.16(g) Date Analyzed: 01/26/2023 23:34
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 36.1 % Solids: 63.9 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	68		50-150
STL01892	13C4 PFHpA	83		50-150
STL00990	13C4 PFOA	81		50-150
STL00991	13C4 PFOS	72		50-150
STL00995	13C5 PFNA	86		50-150
STL00992	13C4 PFBA	84		50-150
STL00993	13C2 PFHxA	88		50-150
STL00996	13C2 PFDA	80		50-150
STL00997	13C2 PFUnA	81		50-150
STL00998	13C2 PFDoA	81		50-150
STL01056	13C8 FOSA	60		50-150
STL01893	13C5 PFPeA	82		50-150
STL02116	13C2 PFTeDA	73		50-150
STL02118	d3-NMeFOSAA	89		50-150
STL02117	d5-NEtFOSAA	112		50-150
STL02279	M2-6:2 FTS	106		50-150
STL02280	M2-8:2 FTS	116		50-150
STL02337	13C3 PFBS	69		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A29.d
 Lims ID: 460-273176-A-6-A
 Client ID: DUP_09_011823_2P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 23:34:59 ALS Bottle#: 26 Worklist Smp#: 29
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-6-A
 Misc. Info.: 200-0054135-029 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 29-Jan-2023 10:12:49 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1653

First Level Reviewer: SJ4N Date: 27-Jan-2023 11:48:57

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	1554678	1.05	84.2	9199	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.000	61521	0.008815		4.5		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1224611	1.03	82.0	2885	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	28132	0.0251		0.4		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1052499	0.8025	69.0	52919	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.411	2.384	0.027	1.006	3210	0.003309	Target=2.10	0.5		M
298.90 > 99.00	2.397	2.384	0.013	1.000	2015		1.59(1.05-3.15)	0.0		M
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1357869	1.09	87.5	6149	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.730	2.706	0.024	1.000	34812	0.0304	Target=13.16	2.5		RM
313.00 > 119.00	2.717	2.706	0.011	0.995	1036		33.60(6.58-19.74)	0.6		M
D 11 18O2 PFHxS	403.00 > 84.00	3.091	3.069	0.022	0.898	768790	0.8056	68.1	4556	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.091	3.069	0.022	1.000	4848	0.006793	Target=3.18	0.7		RM
399.00 > 99.00	3.080	3.069	0.011	0.996	7183		0.67(1.59-4.77)	0.5		M
D 9 13C4 PFHpA	367.00 > 322.00	3.091	3.069	0.022	0.898	1296123	1.04	83.4	6259	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.103	3.069	0.034	1.004	8551	0.007744	Target=4.10	1.0		M
363.00 > 169.00	3.091	3.069	0.022	1.000	2623		3.26(2.05-6.16)	5.5		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	189749	1.26		106	74.2	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.416	3.417	-0.001	0.995	481	0.001315		1.0		M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.416	3.417	-0.001	0.910	663	0.001089	Target=4.59	0.2		RM
449.00 > 99.00	3.434	3.417	0.017	0.915	13735		0.05(2.30-6.89)	3.0		M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1326985	1.01		80.6	4222	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1606772	1.25			7580	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	500182	0.8621		72.1	139	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.533	3.754	-0.221	0.941	22782	0.0448	Target=4.23	3.6		RM
499.00 > 99.00	3.694	3.754	-0.060	0.984	145024		0.16(2.11-6.34)	38.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.774	0.009	1.099	1384155	1.08		86.3	3933	
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.186	1309401	1.00		79.6	5963	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	260777	1.38		116	82.7	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	806788	0.7544		60.3	5017	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.227	288707	1.12		89.3	1801	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.043	4.226	-0.183	0.957	420	0.002017		1.8		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1146168	1.01		80.7	5816	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.393	4.358	0.035	1.008	394	0.001521		3.0		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.266	348599	1.40		112	832	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	0.998	3432	0.003657	Target=8.10	0.5		RM
613.00 > 169.00	4.571	4.584	-0.013	0.995	198		17.33(4.05-12.15)	1.3		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.594	4.584	0.010	1.334	1152321	1.01		80.9	5866	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.047	1316	0.001404	Target=6.06	0.3		M
663.00 > 169.00	4.808	4.799	0.009	1.047	292		4.51(3.03-9.09)	2.1		M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.015	4.998	0.017	1.002	338	0.003762	Target=0.83	4.4		RM
713.00 > 219.00	4.994	4.998	-0.004	0.998	179		1.89(0.42-1.25)	3.4		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.454	899467	0.9183		73.5	4412	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A29.d

Injection Date: 26-Jan-2023 23:34:59

Instrument ID: LC812

Lims ID: 460-273176-A-6-A

Lab Sample ID: 200-273176-6

Client ID: DUP_09_011823_2P

Operator ID: LC812user

ALS Bottle#: 26

Worklist Smp#: 29

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

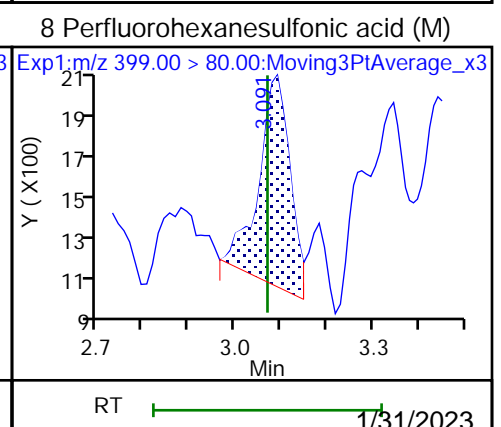
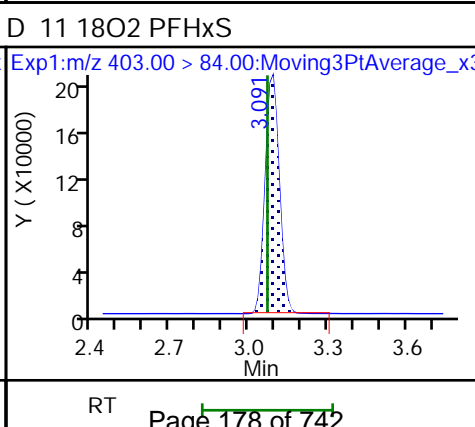
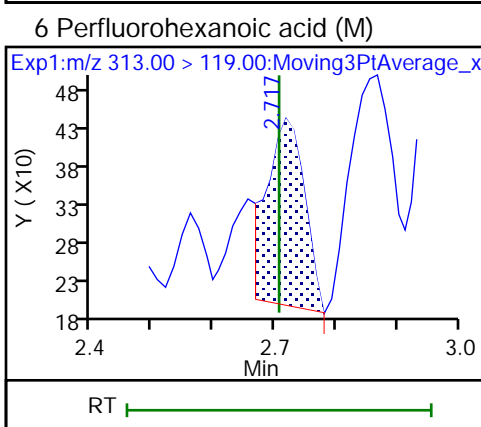
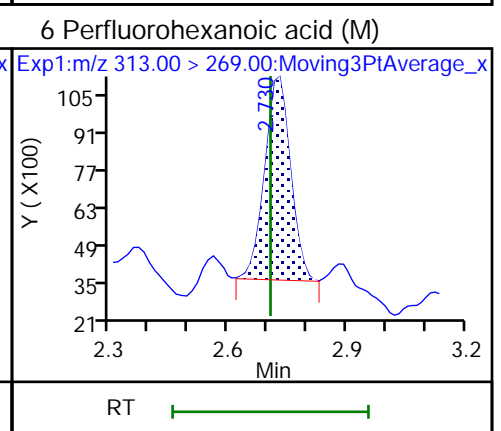
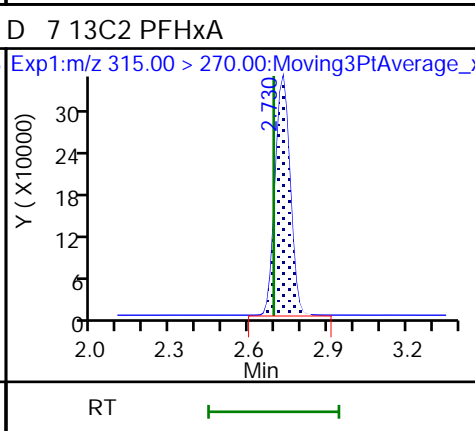
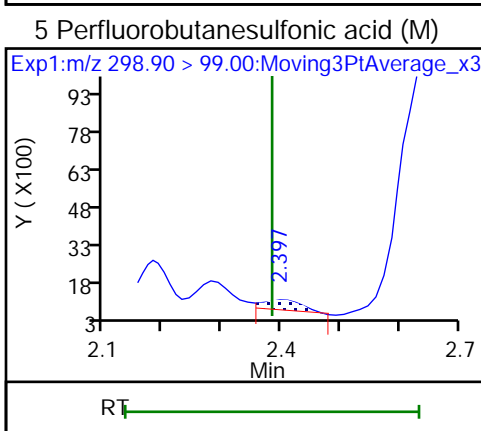
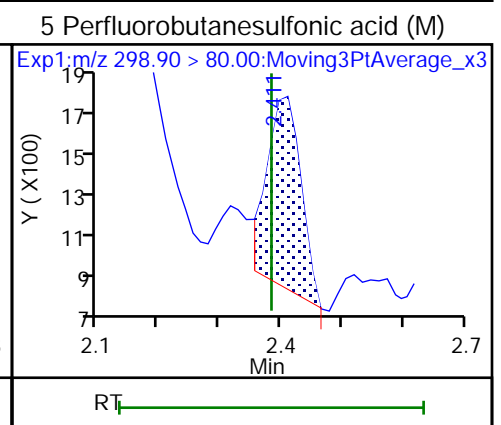
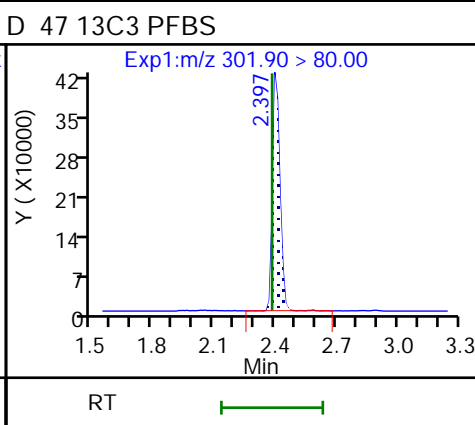
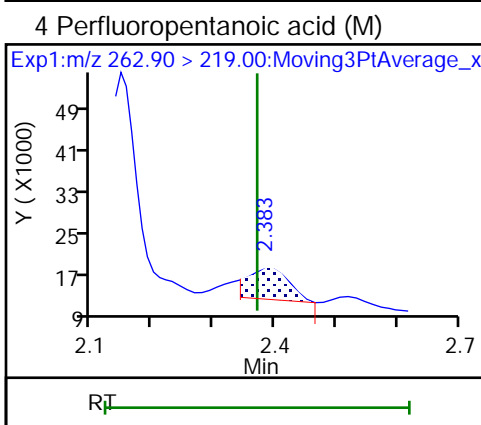
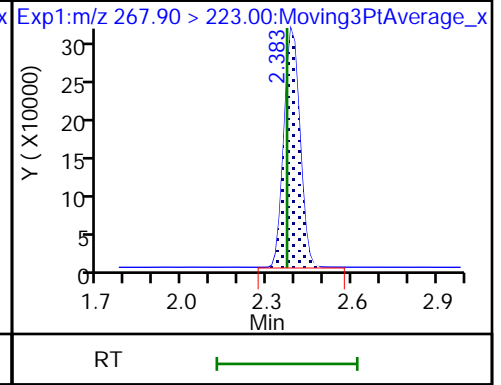
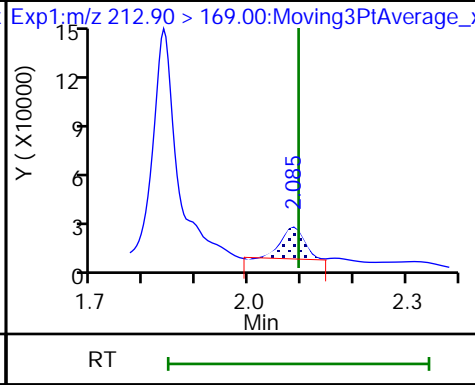
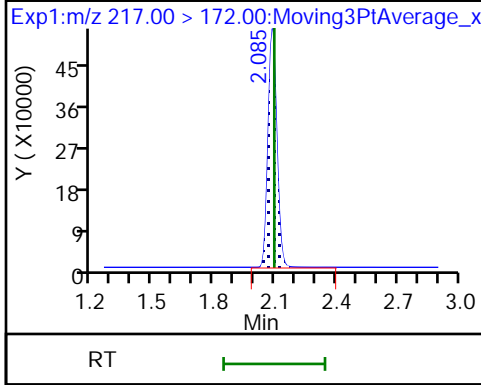
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

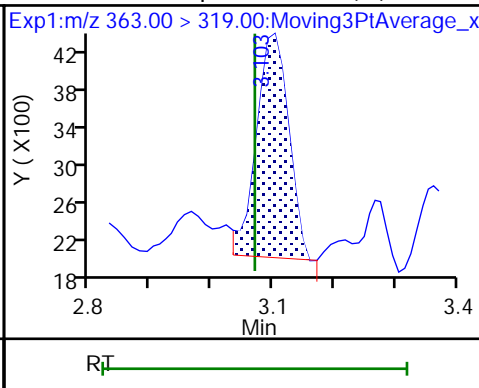
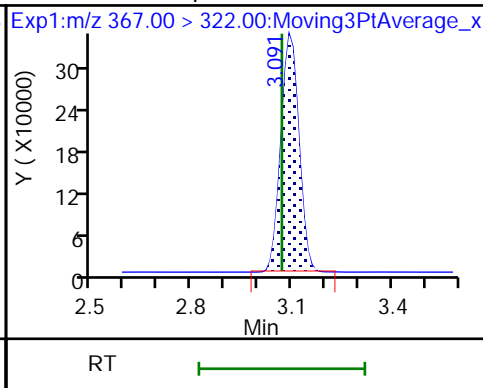
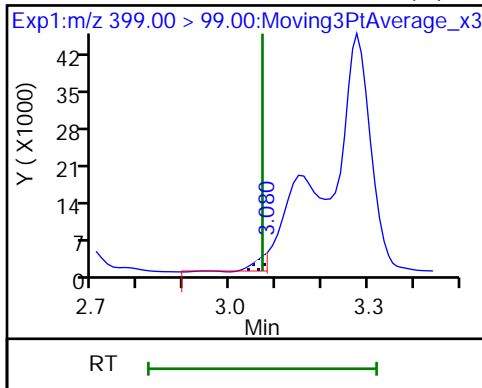
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

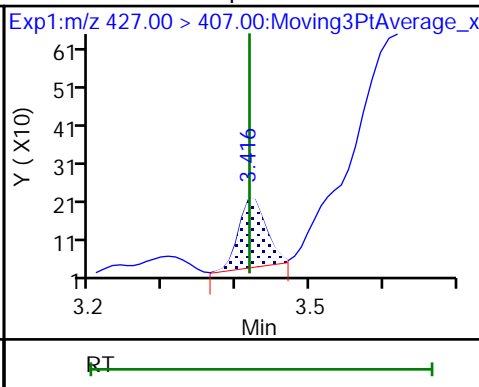
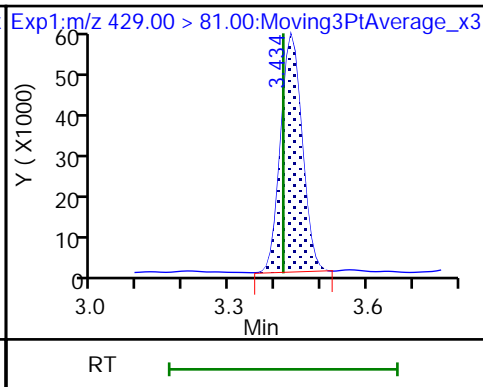
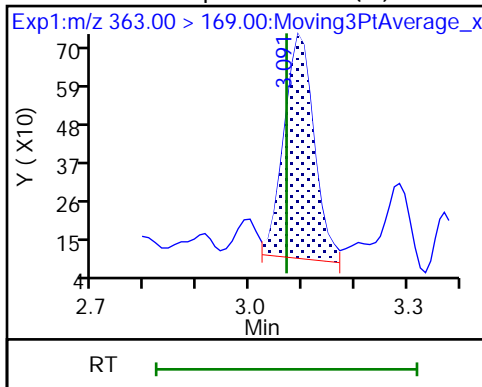
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

D 12 M2-6:2 FTS

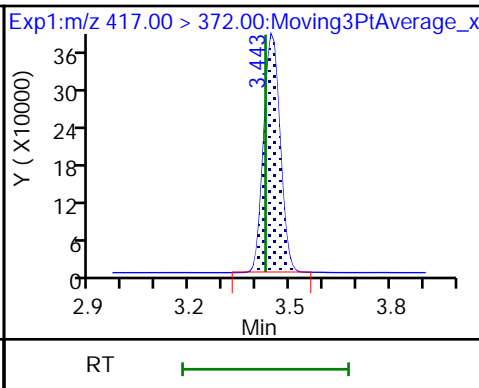
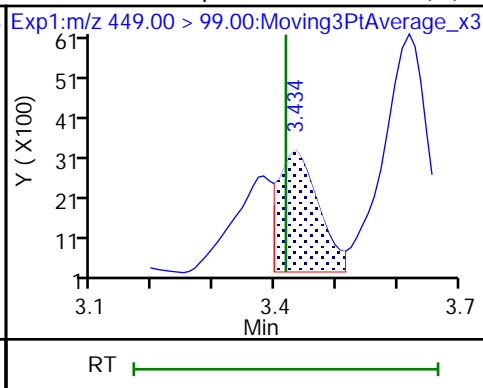
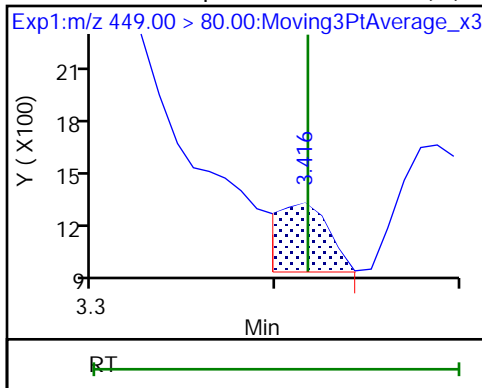
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

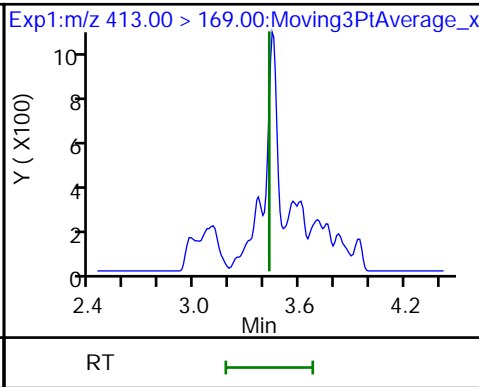
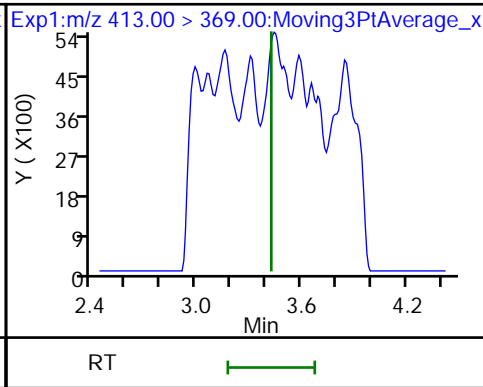
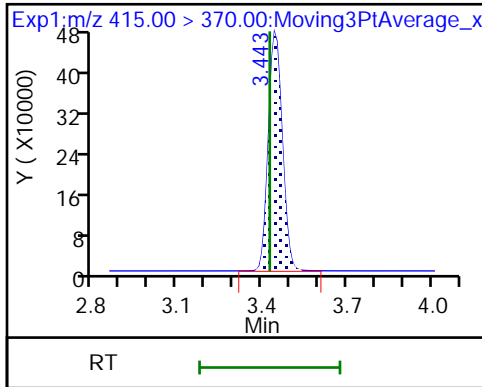
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (ND)

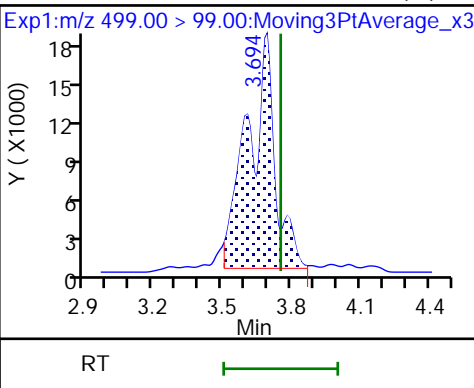
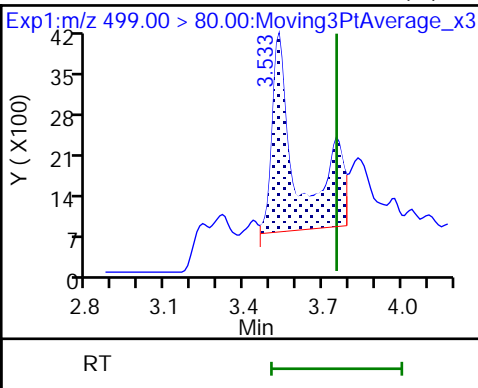
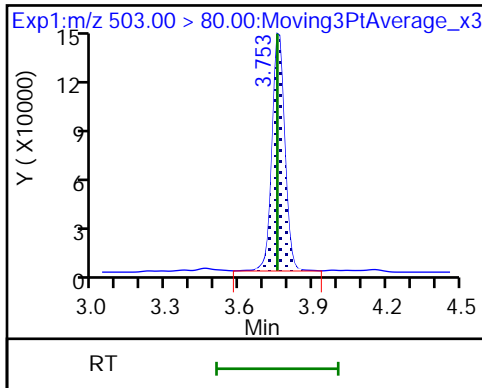
15 Perfluorooctanoic acid (ND)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

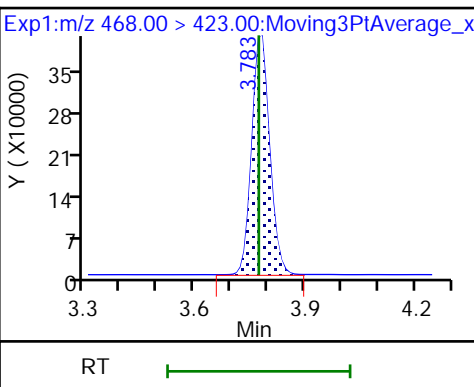
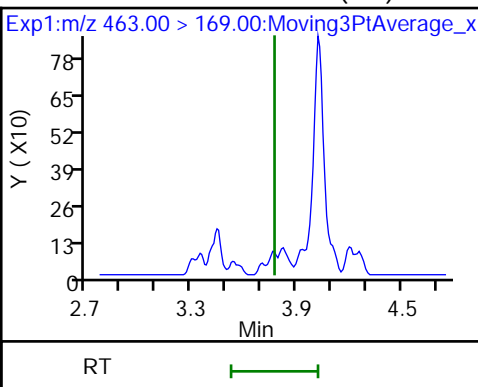
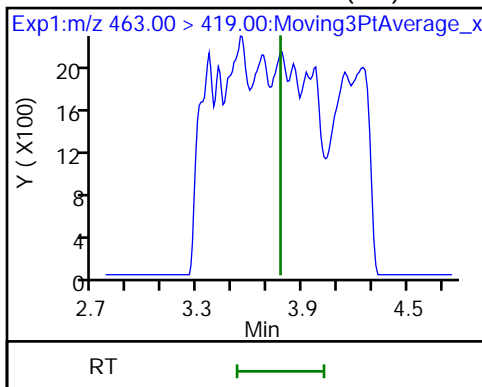
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

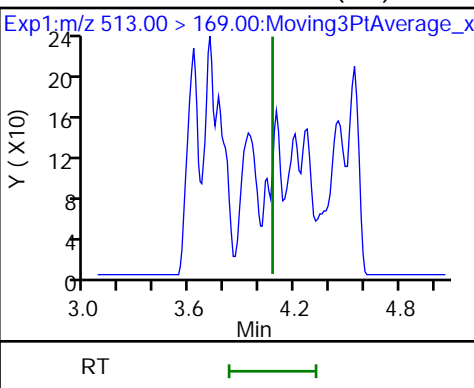
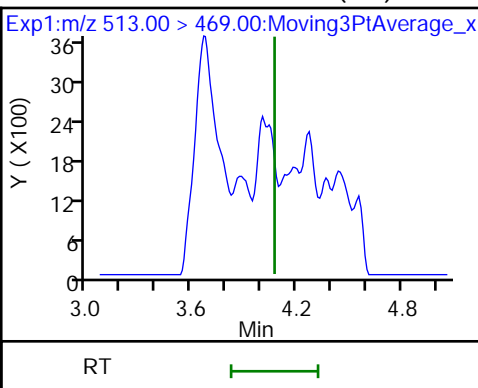
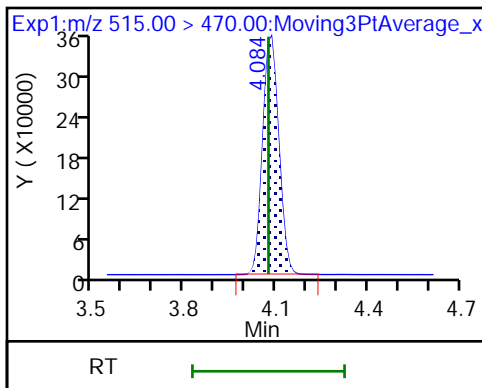
D 19 13C5 PFNA



D 23 13C2 PFDA

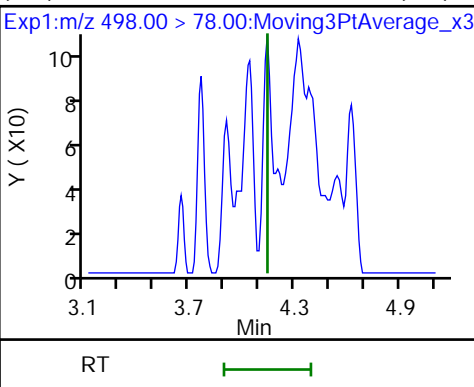
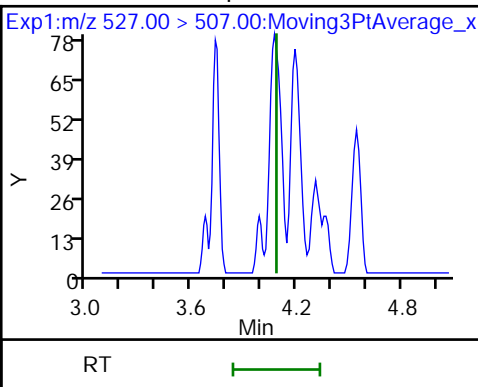
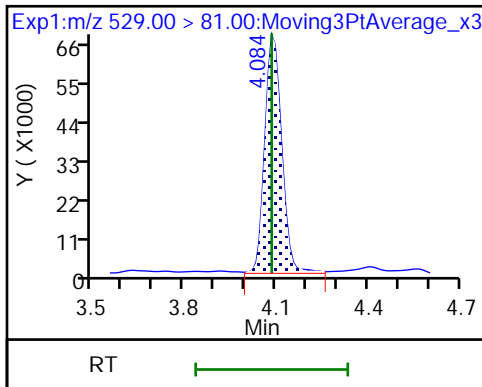
24 Perfluorodecanoic acid (ND)

24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

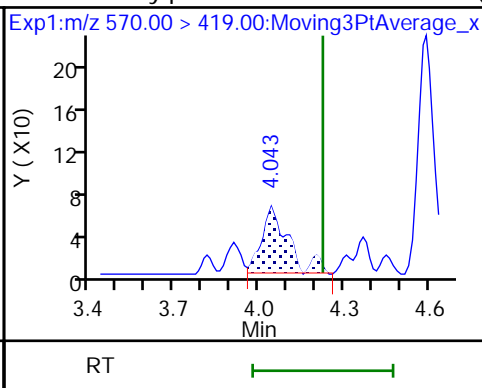
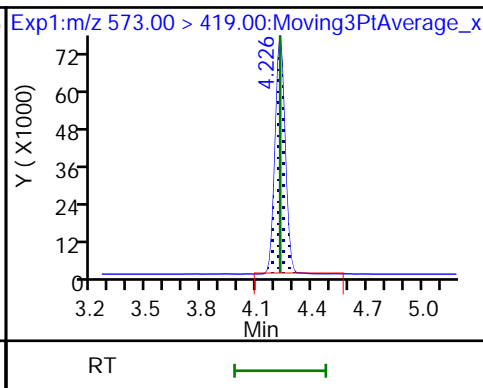
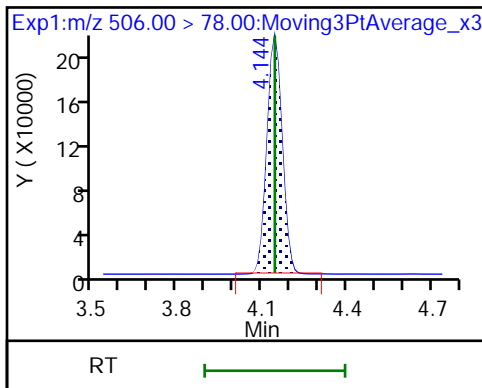
25 1H,1H,2H,2H-perfluorodecanesulfo (ND) Perfluorooctanesulfonamide (ND)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

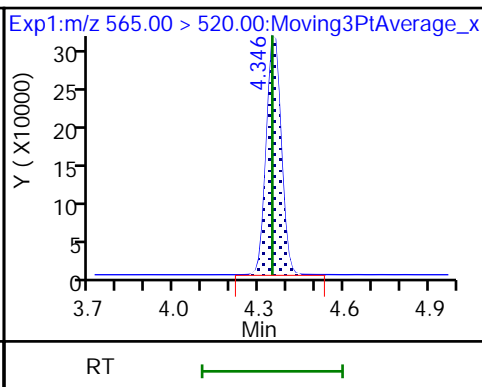
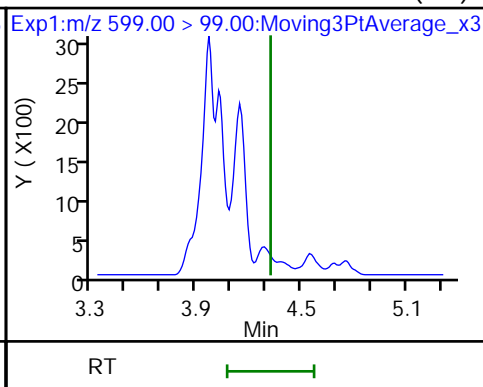
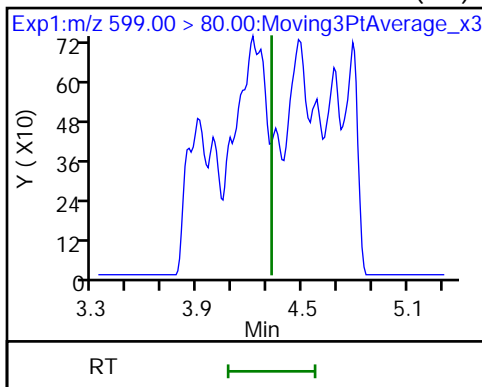
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

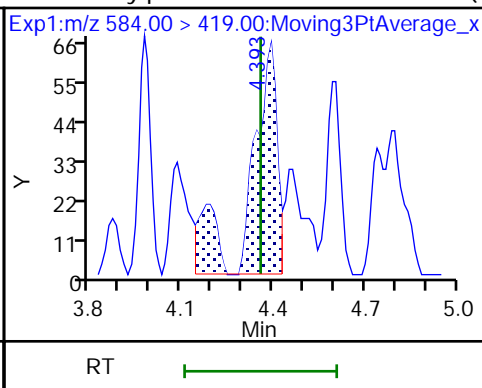
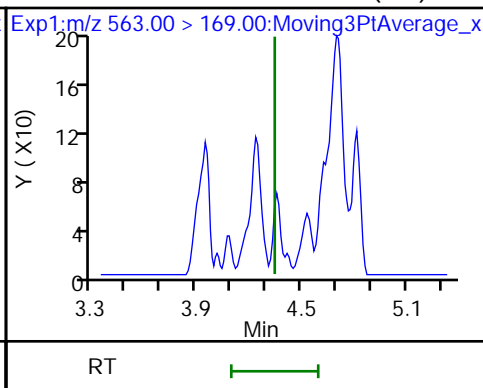
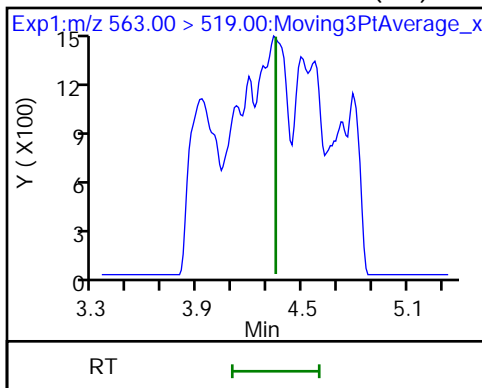
D 30 13C2 PFUa



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

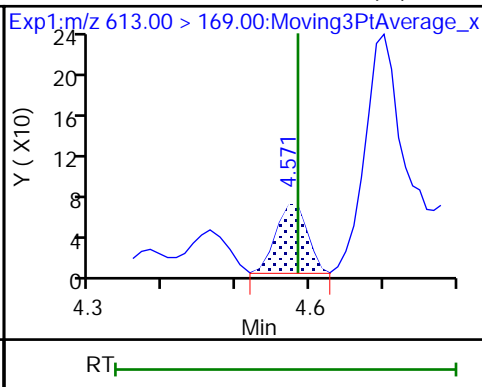
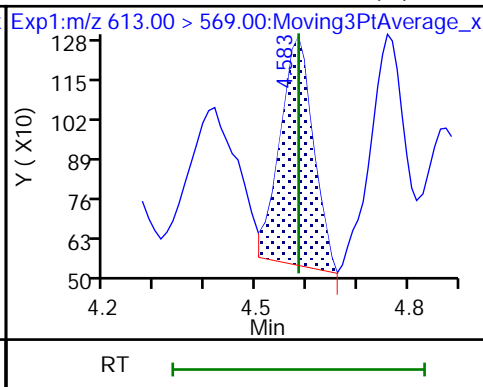
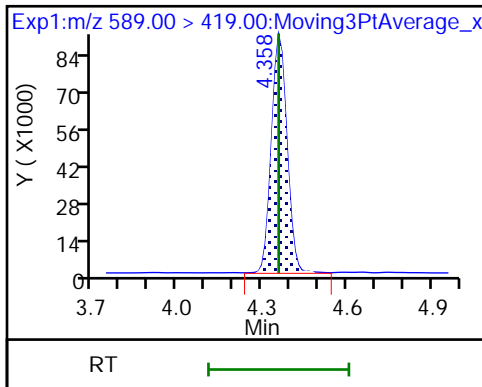
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

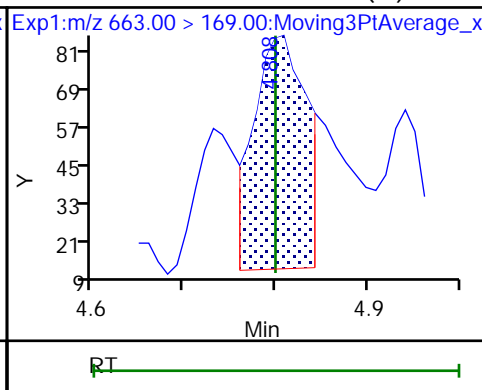
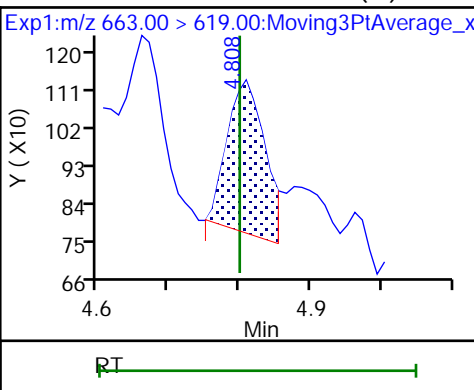
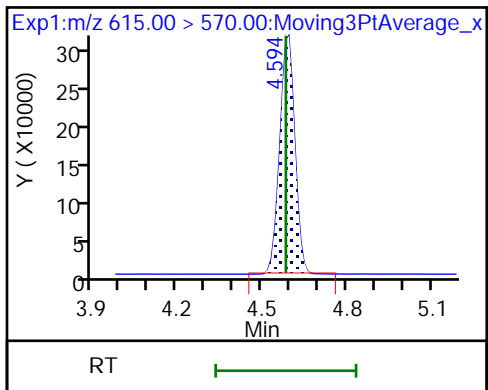
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

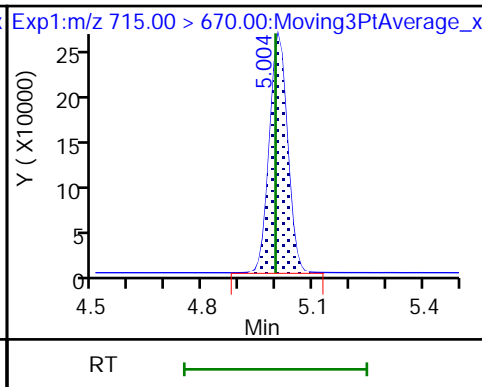
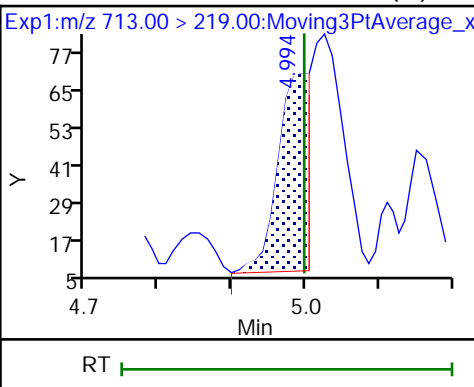
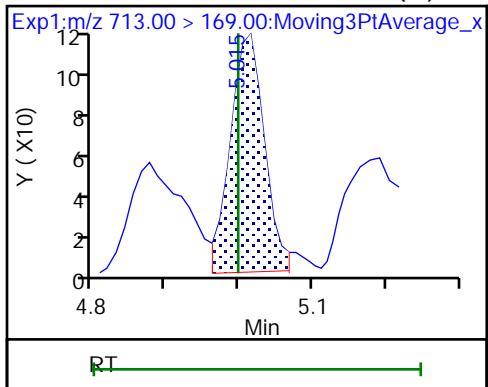
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

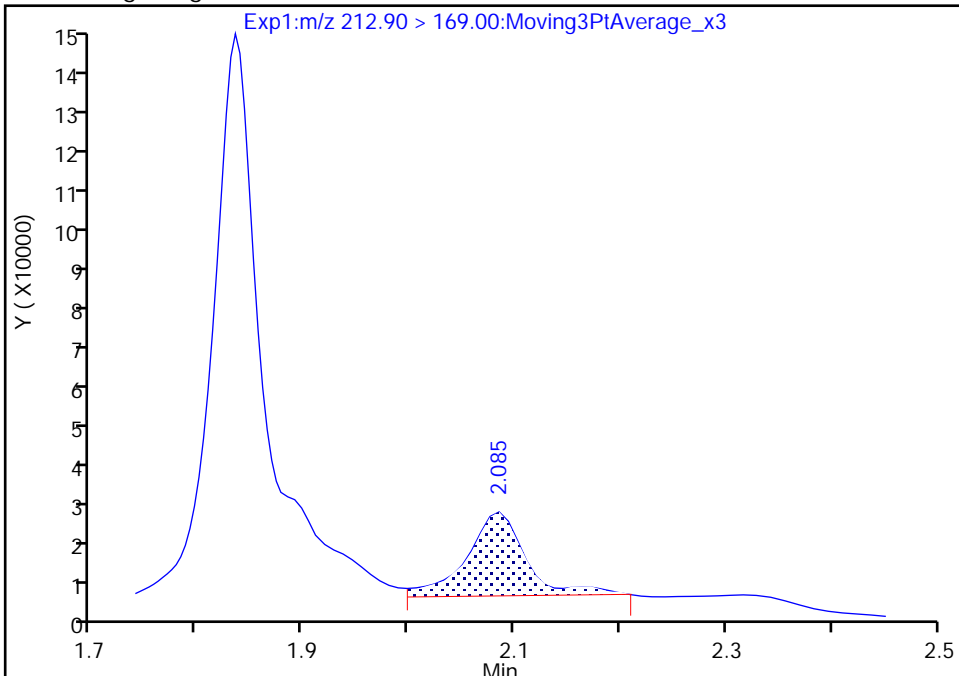
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

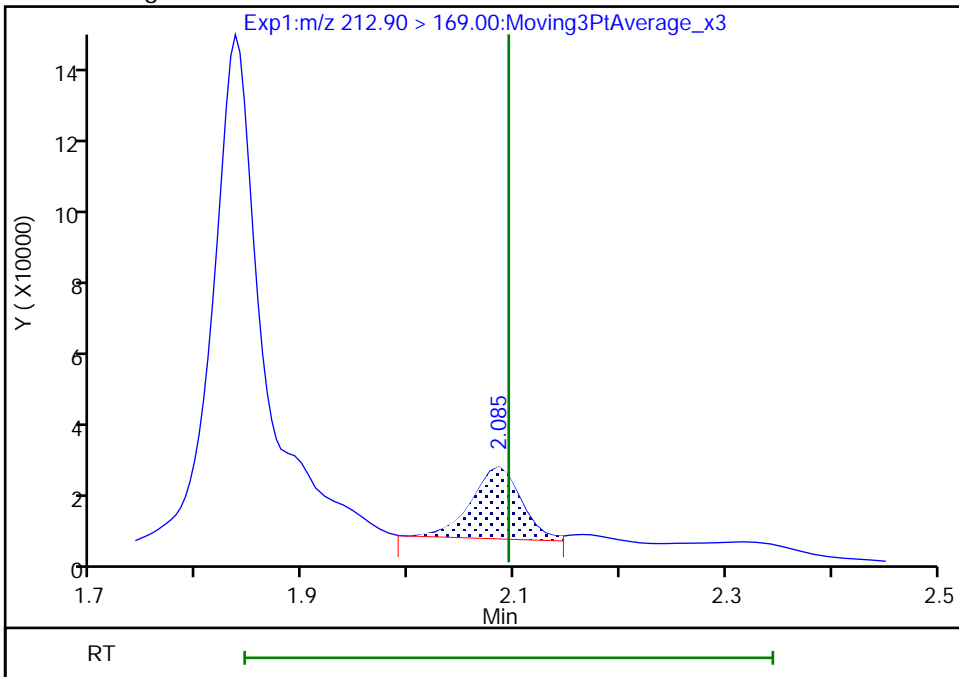
RT: 2.09
Area: 76842
Amount: 0.021817
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 61521
Amount: 0.008815
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:41:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

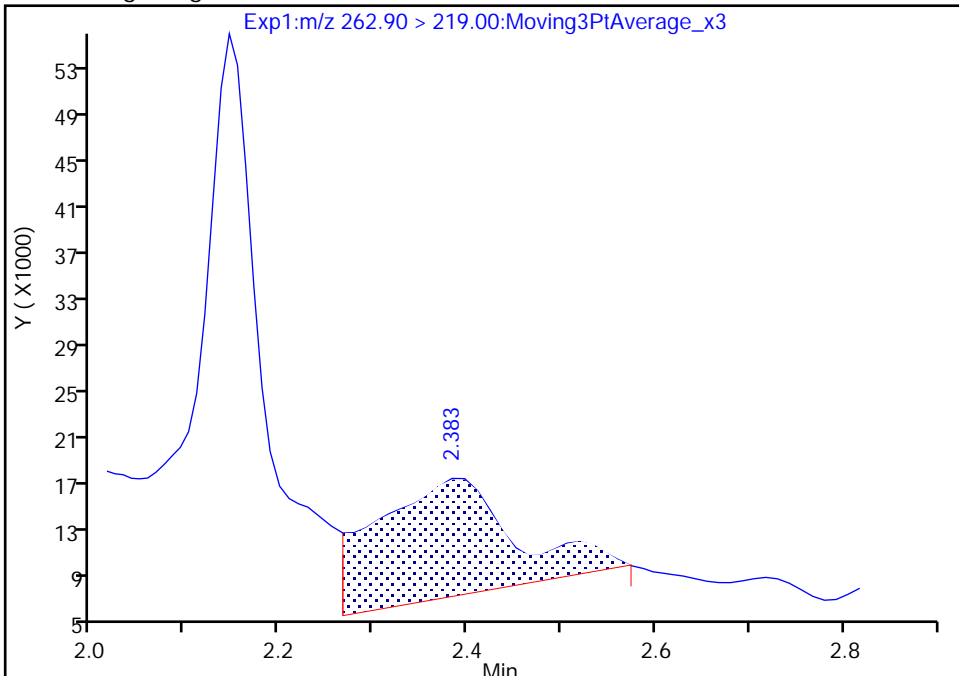
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

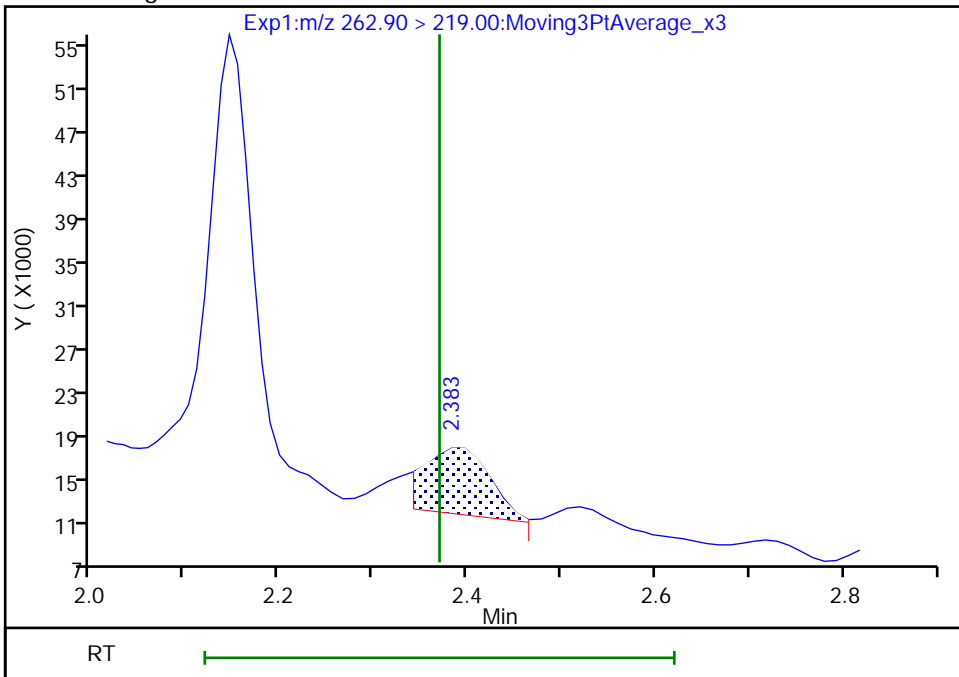
RT: 2.38
Area: 103608
Amount: 0.092342
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 28132
Amount: 0.025073
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:42:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

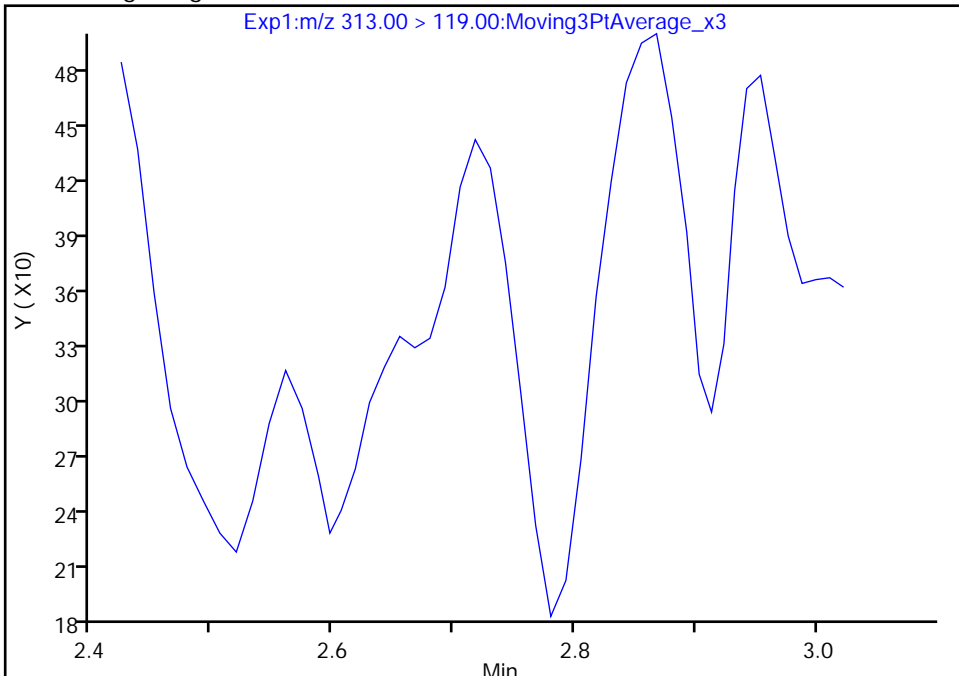
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

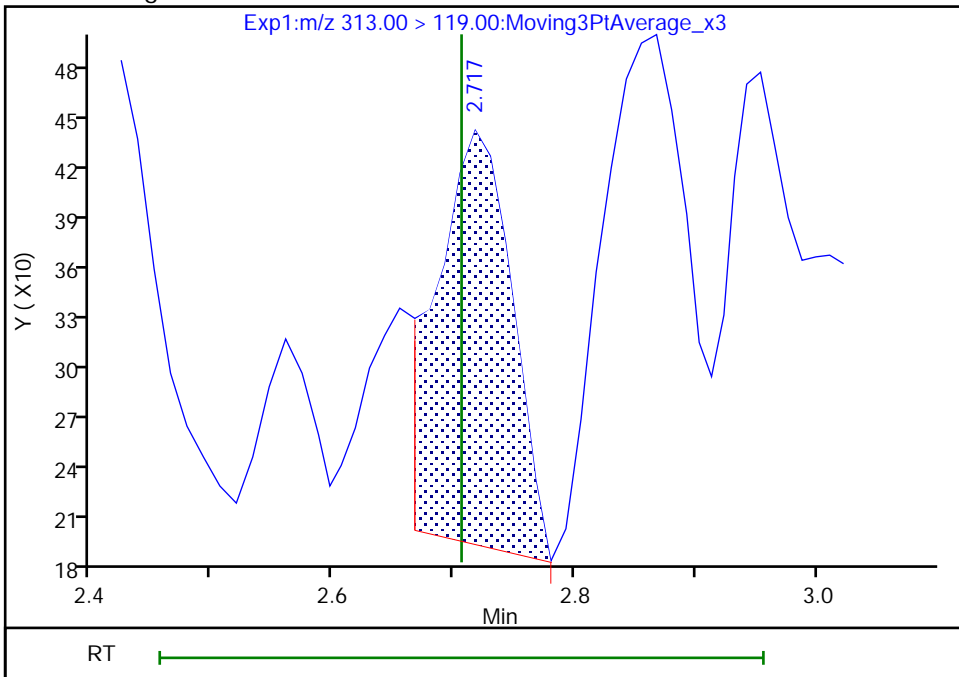
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.72
Area: 1036
Amount: 0.030418
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:43:24
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

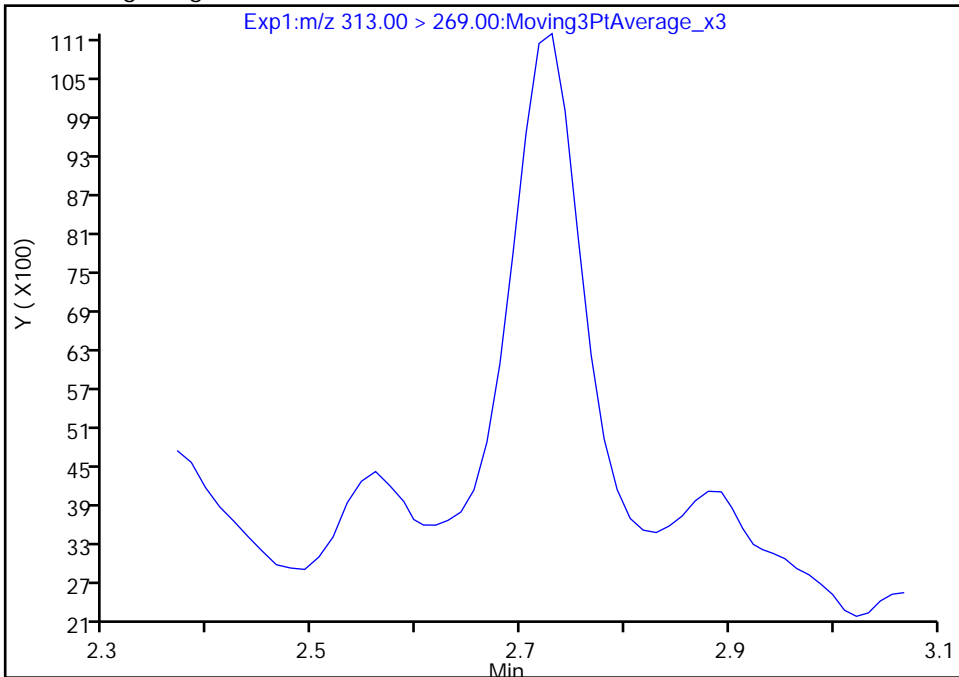
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

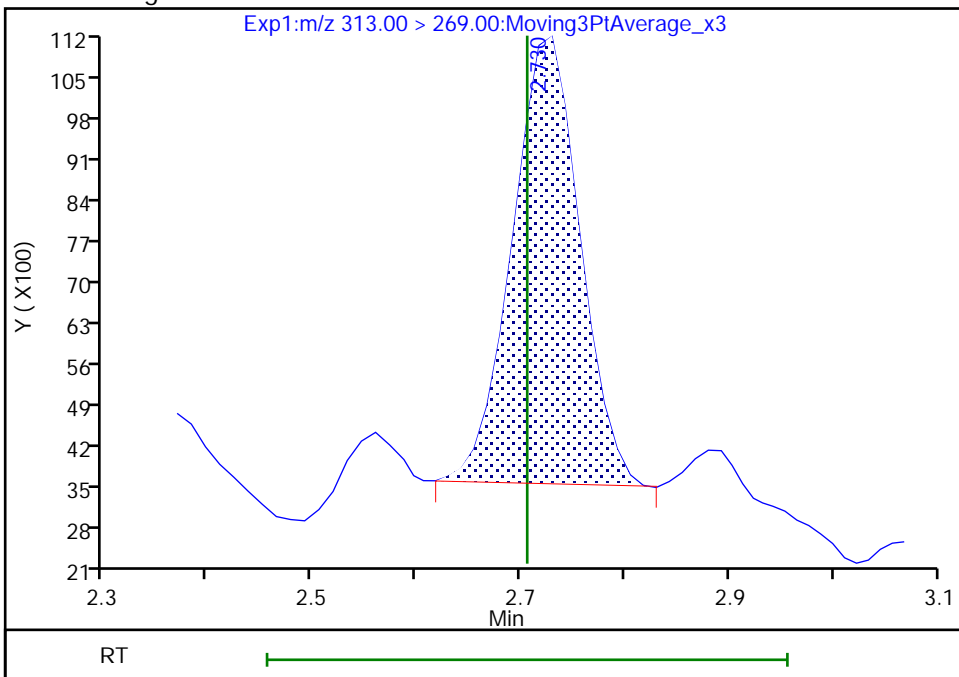
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 34812
Amount: 0.030418
Amount Units: ng/ml



Reviewer: SJ4N, 29-Jan-2023 10:12:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 186 of 742

Eurofins Burlington

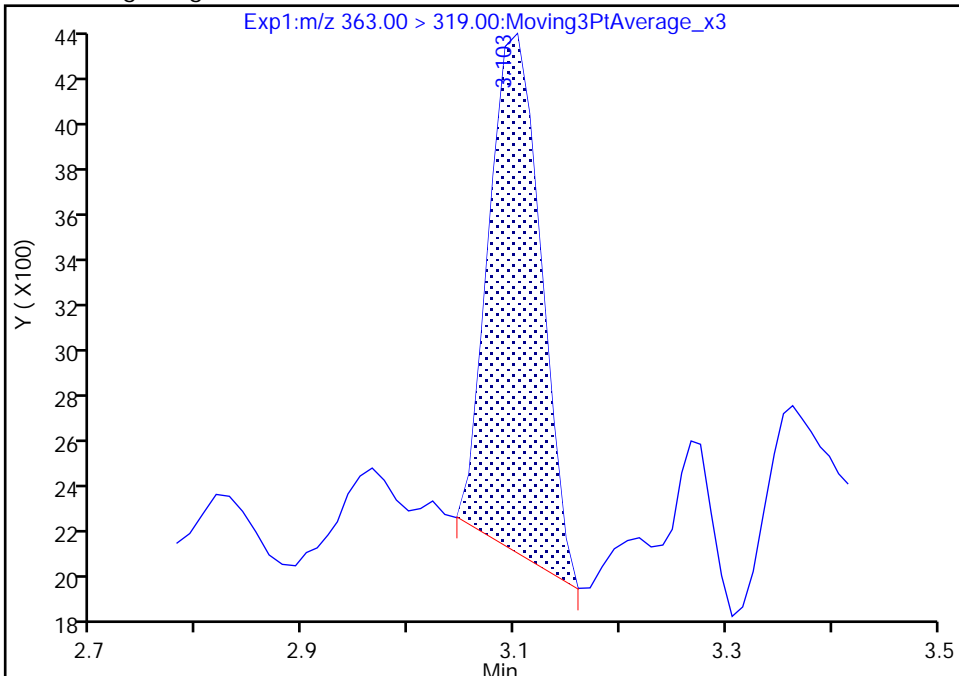
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Injection Date:	26-Jan-2023 23:34:59	Instrument ID:	LC812
Lims ID:	460-273176-A-6-A	Lab Sample ID:	200-273176-6
Client ID:	DUP_09_011823_2P		
Operator ID:	LC812user	ALS Bottle#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	29

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

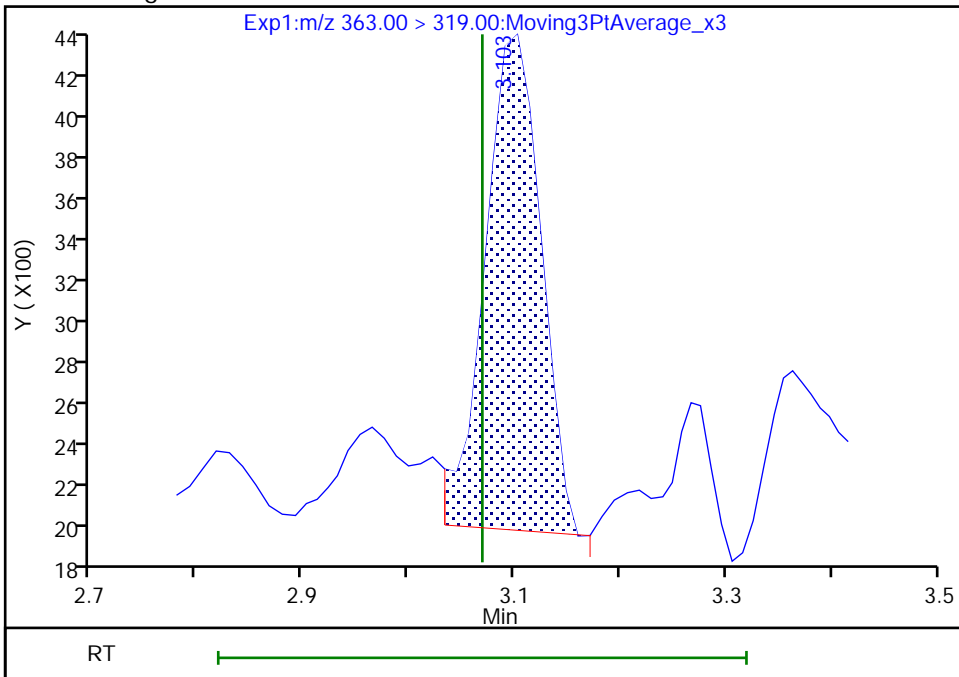
RT: 3.10
 Area: 7514
 Amount: 0.006805
 Amount Units: ng/ml

Processing Integration Results



RT: 3.10
 Area: 8551
 Amount: 0.007744
 Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:44:42
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

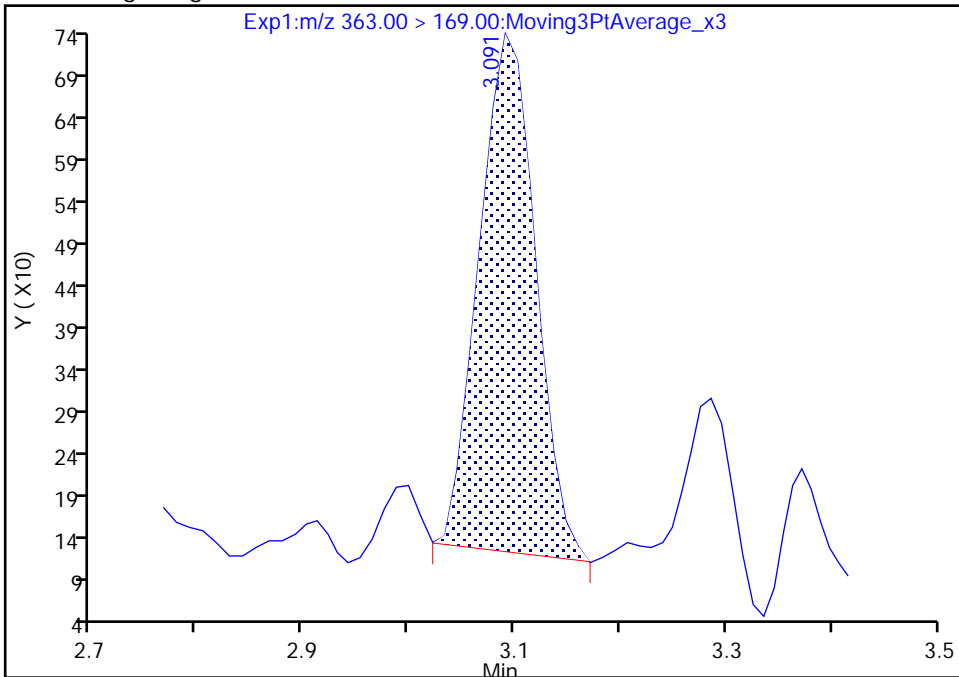
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A29.d
Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

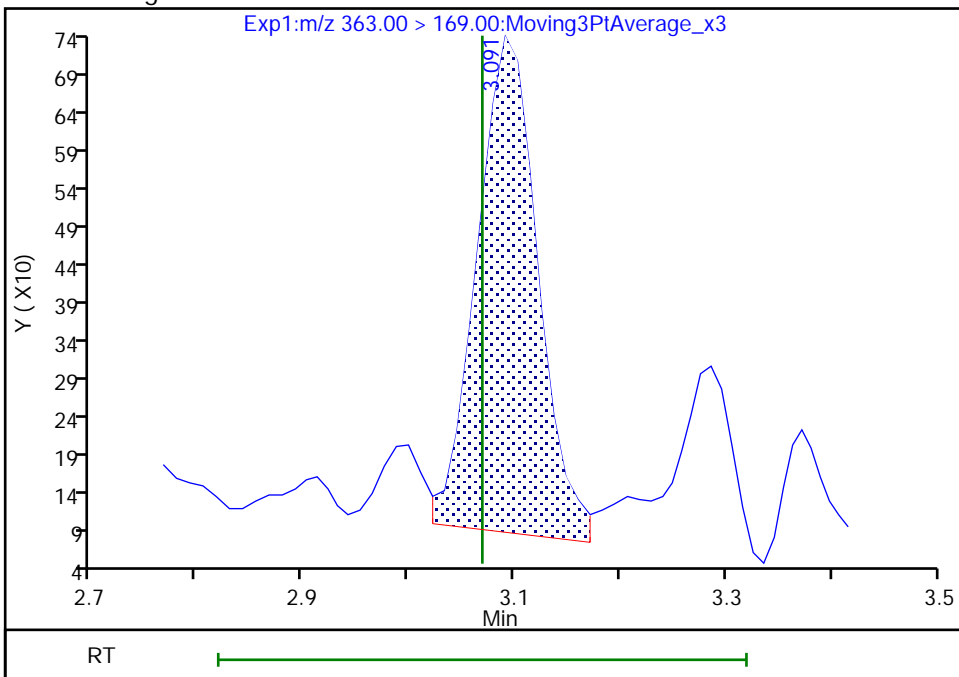
RT: 3.09
Area: 2292
Amount: 0.006805
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2623
Amount: 0.007744
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:44:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

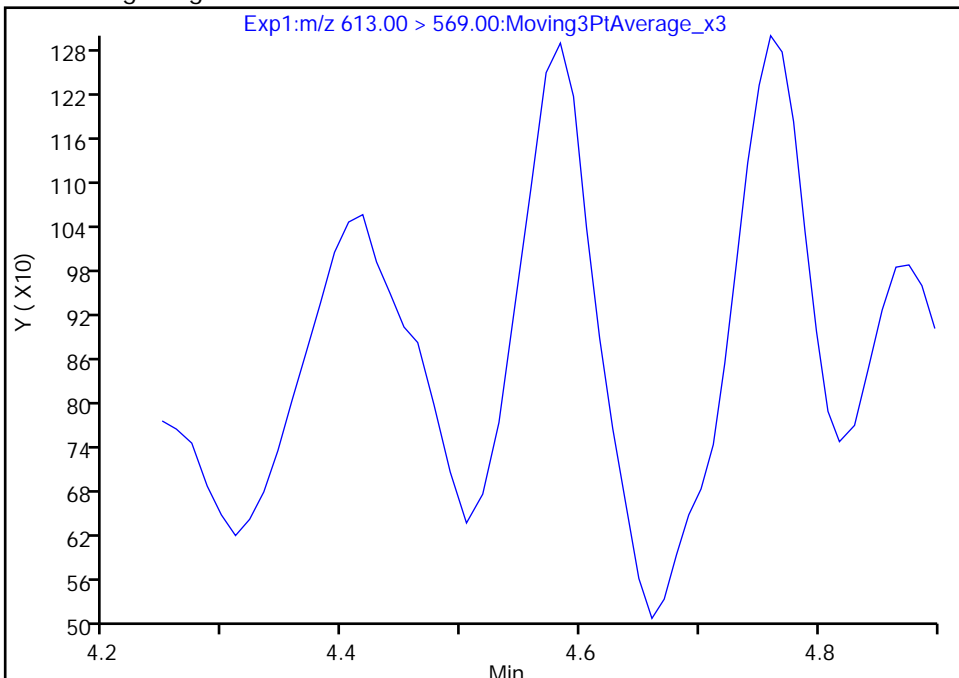
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

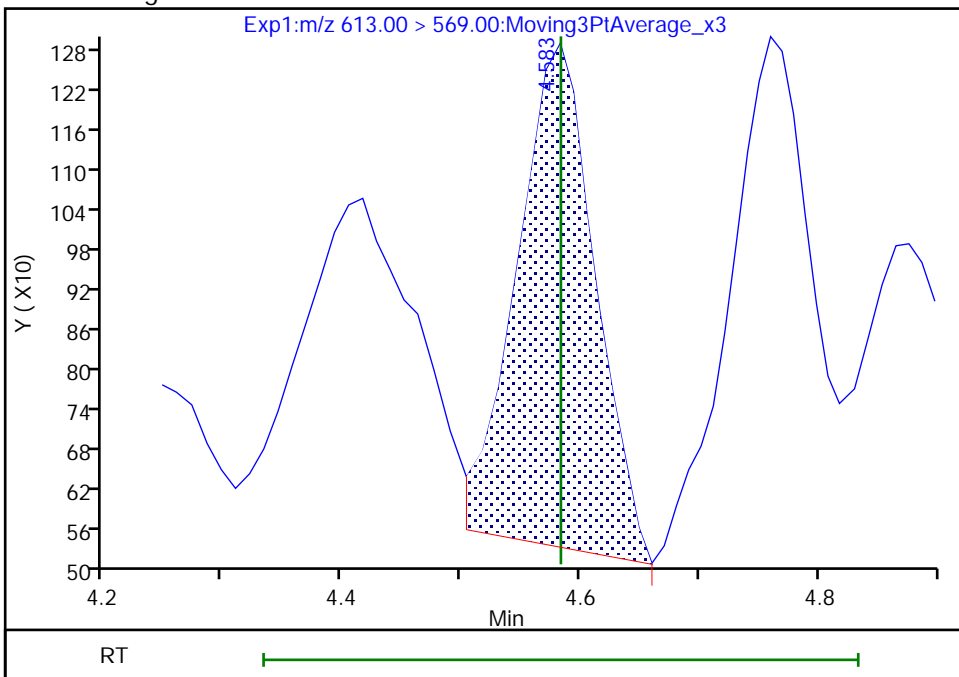
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 3432
Amount: 0.003657
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:47:41
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

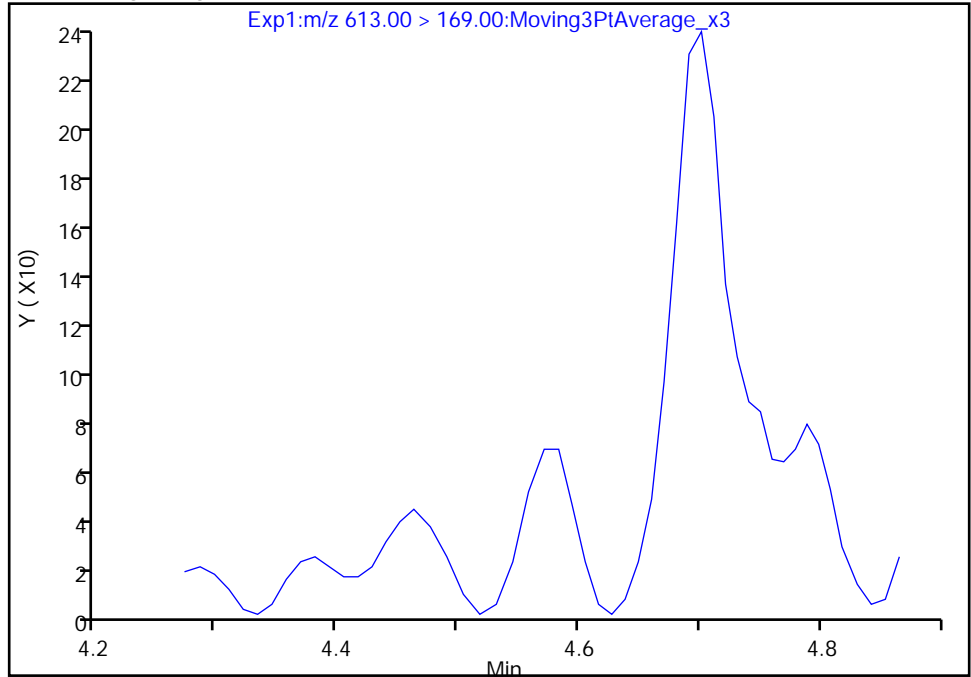
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

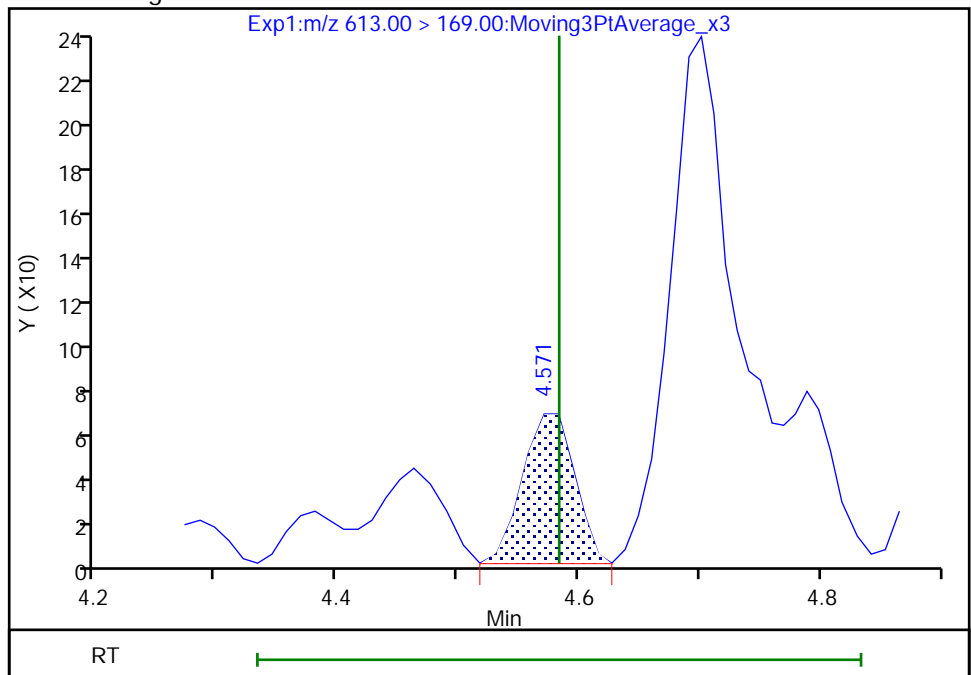
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.57
Area: 198
Amount: 0.003657
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:47:43

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

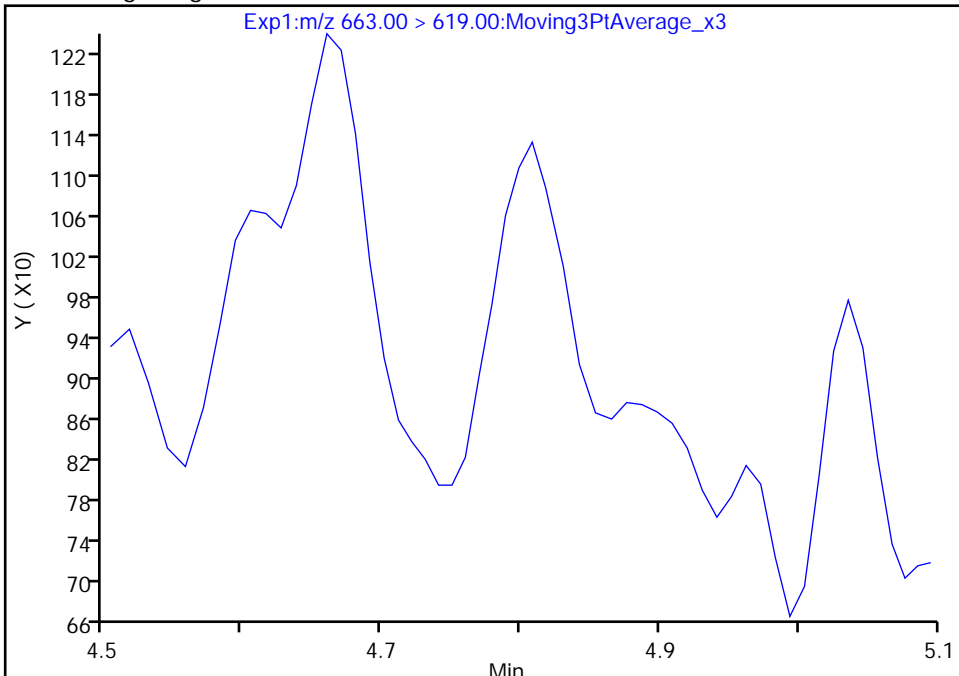
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

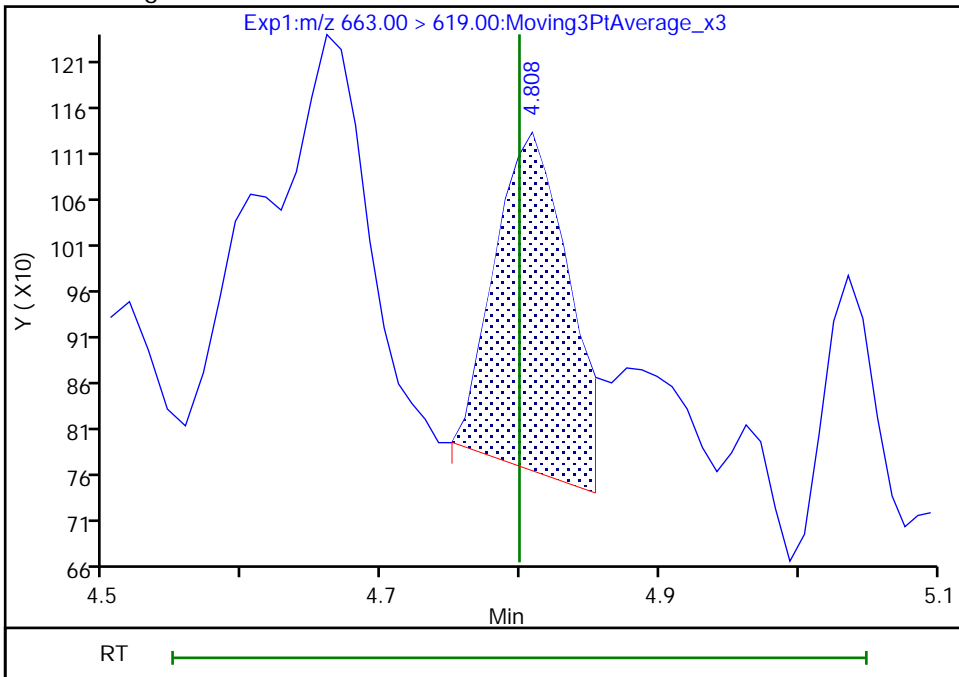
Signal: 1

Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results



RT: 4.81
Area: 1316
Amount: 0.001404
Amount Units: ng/ml

Reviewer: SJ4N, 27-Jan-2023 11:48:03
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

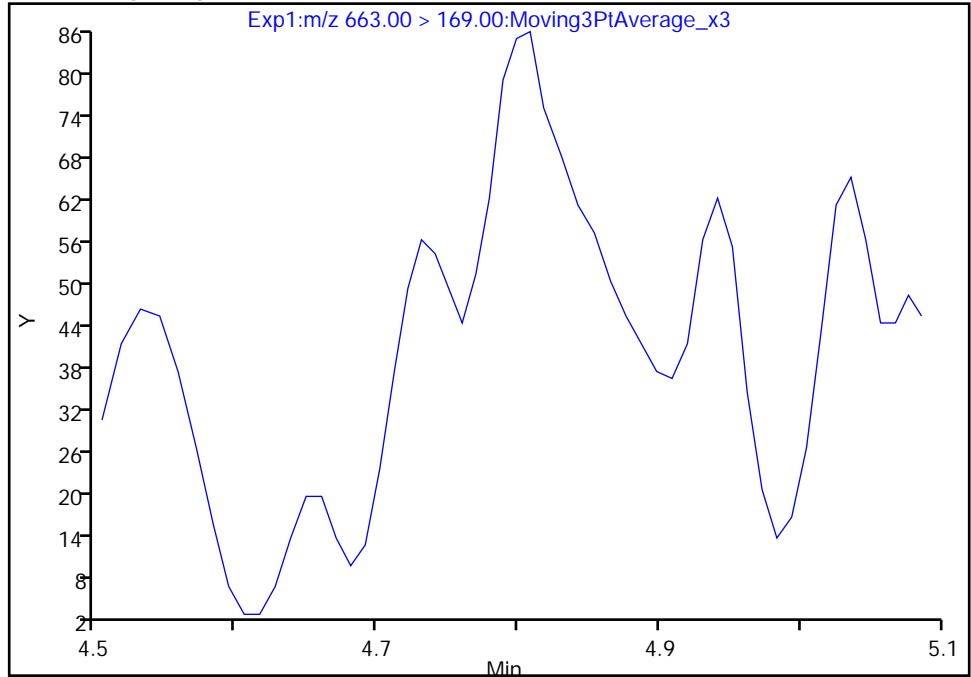
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

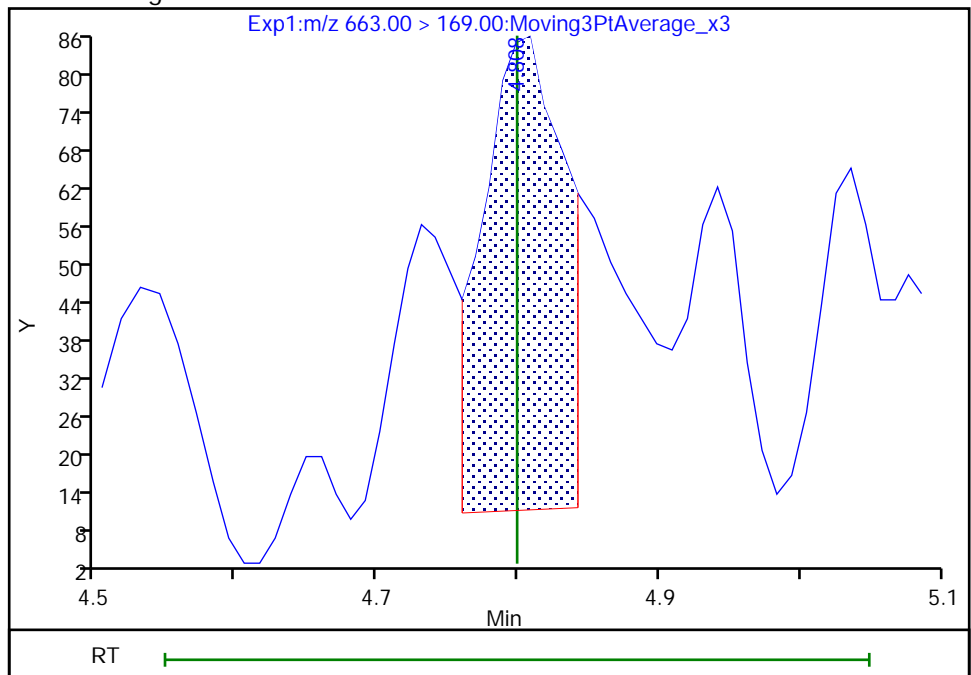
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.81
Area: 292
Amount: 0.001404
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:48:09

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

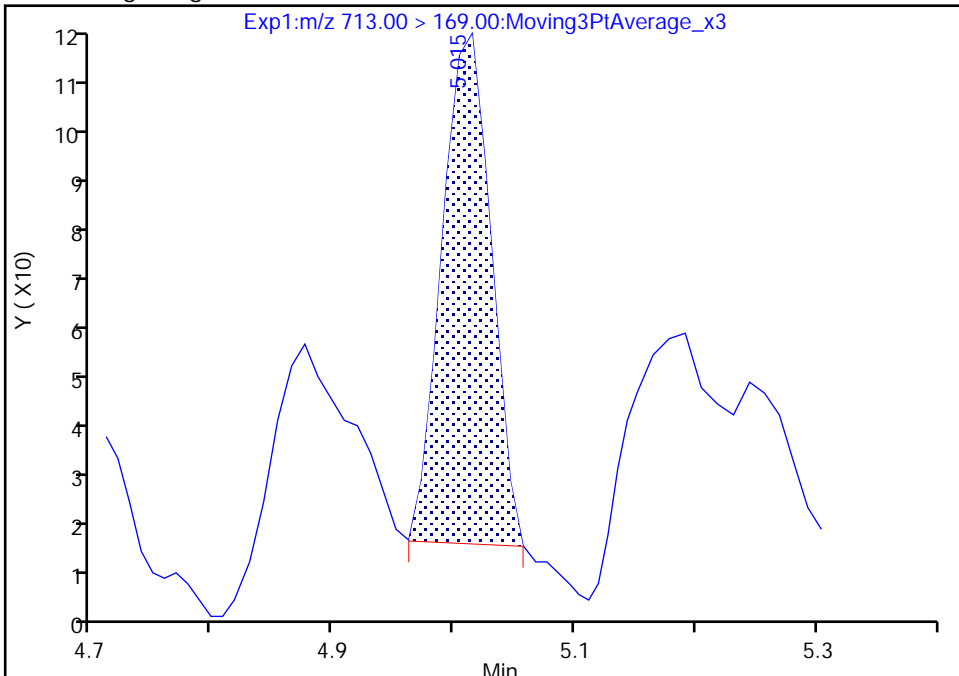
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

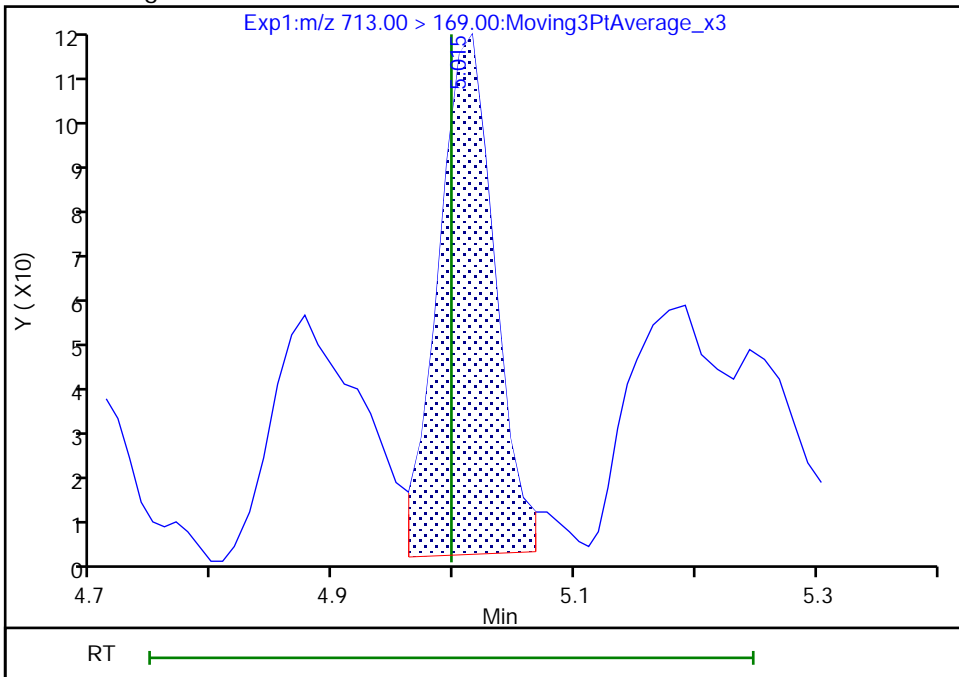
RT: 5.01
Area: 263
Amount: 0.002927
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 338
Amount: 0.003762
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:48:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

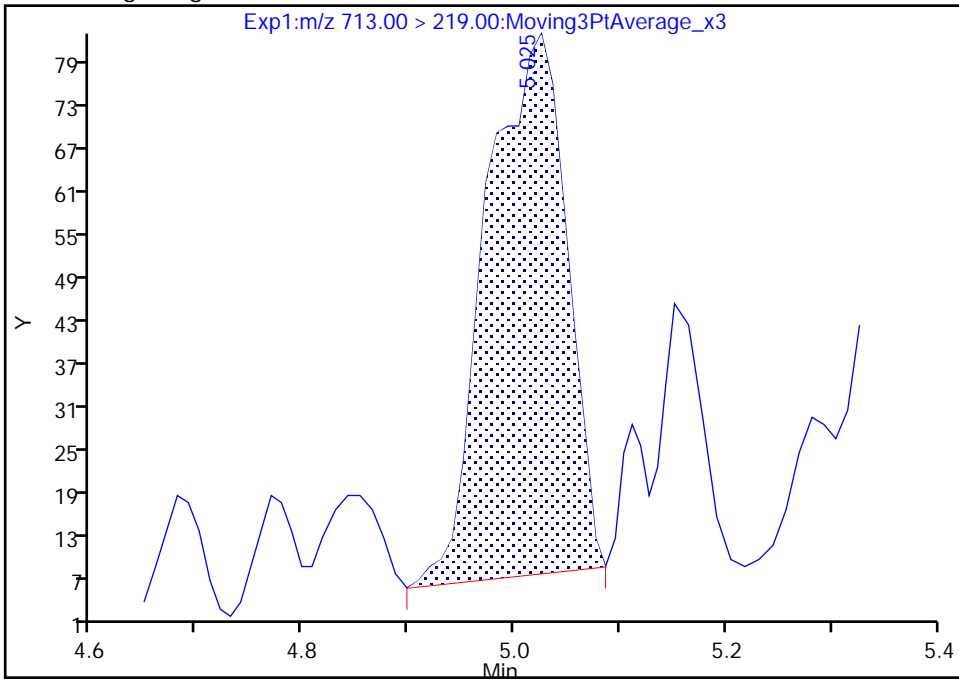
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A29.d
Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

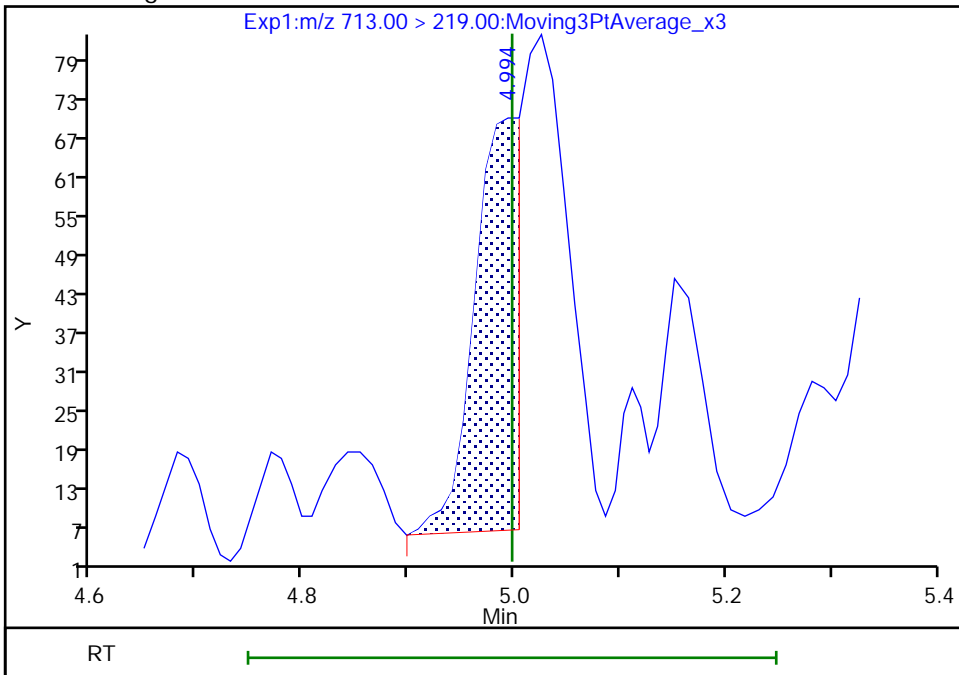
RT: 5.03
Area: 401
Amount: 0.002927
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 179
Amount: 0.003762
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:48:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

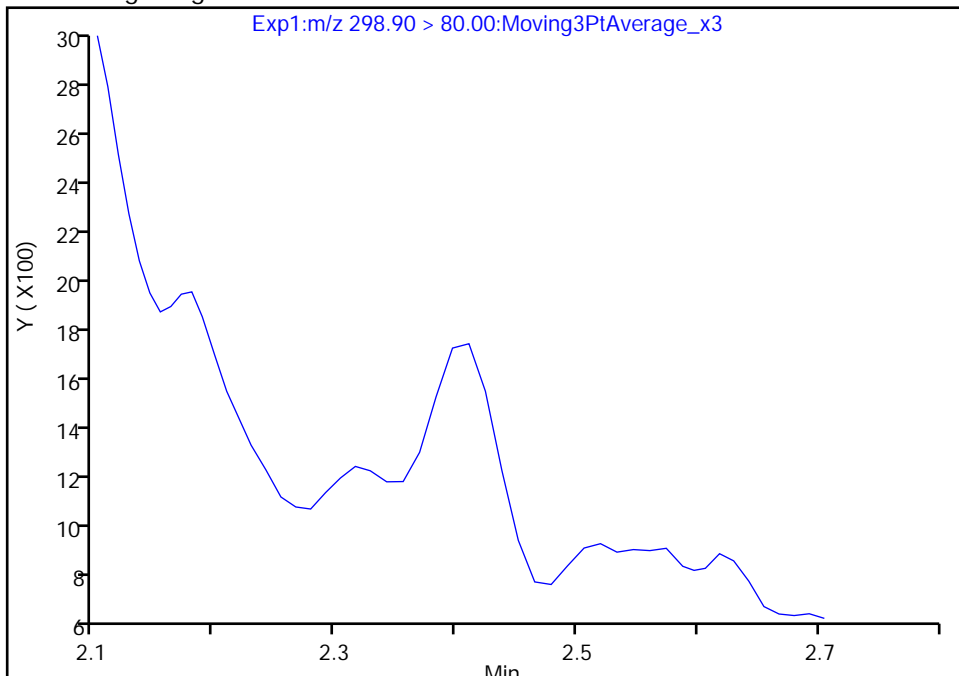
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

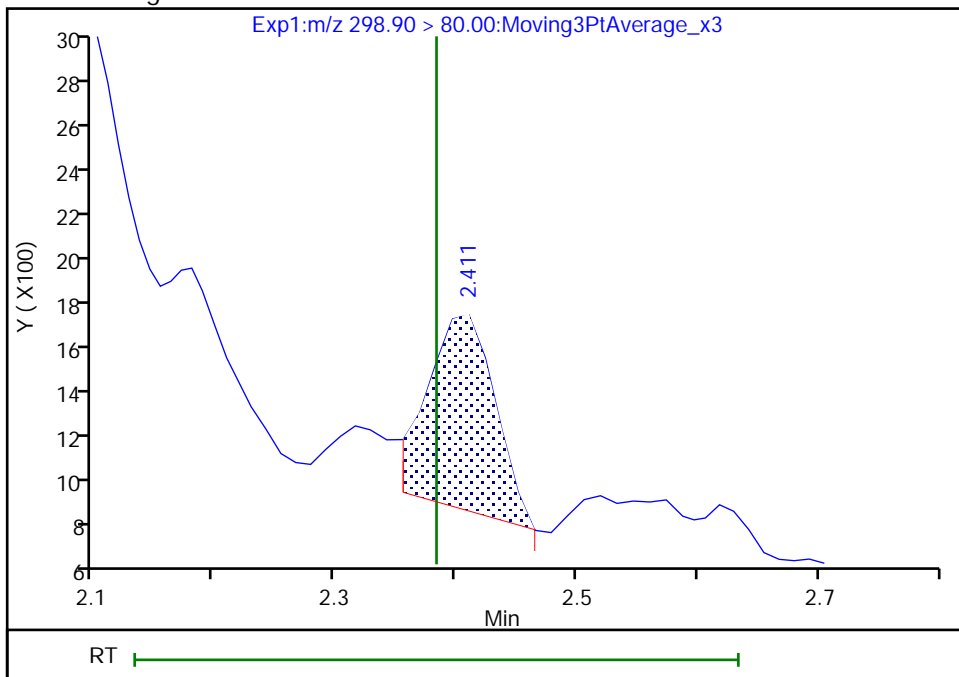
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 3210
Amount: 0.003309
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:42:35
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

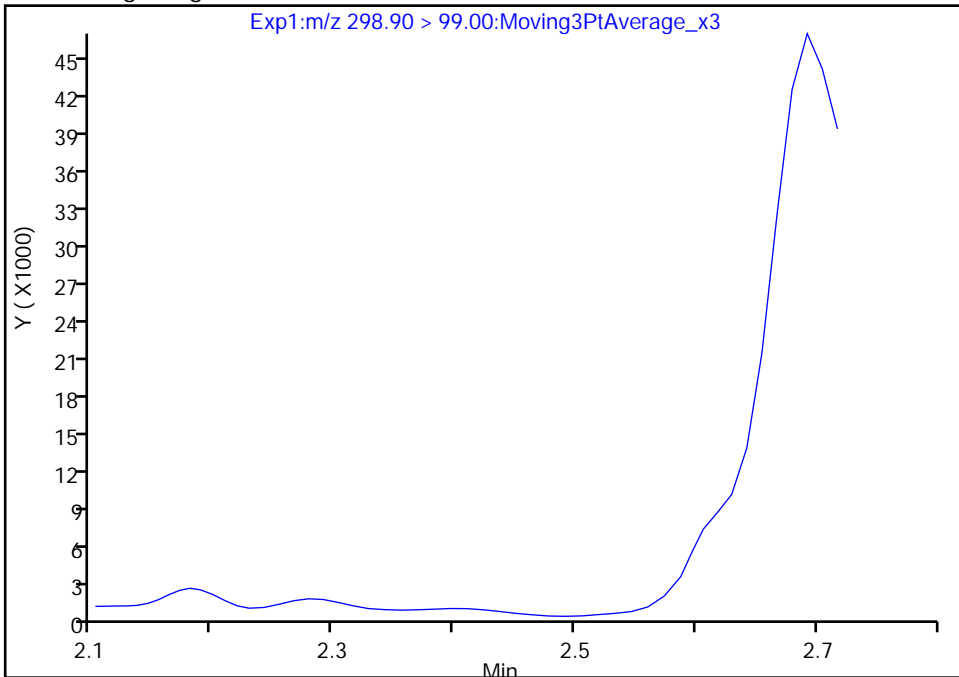
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A29.d
Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

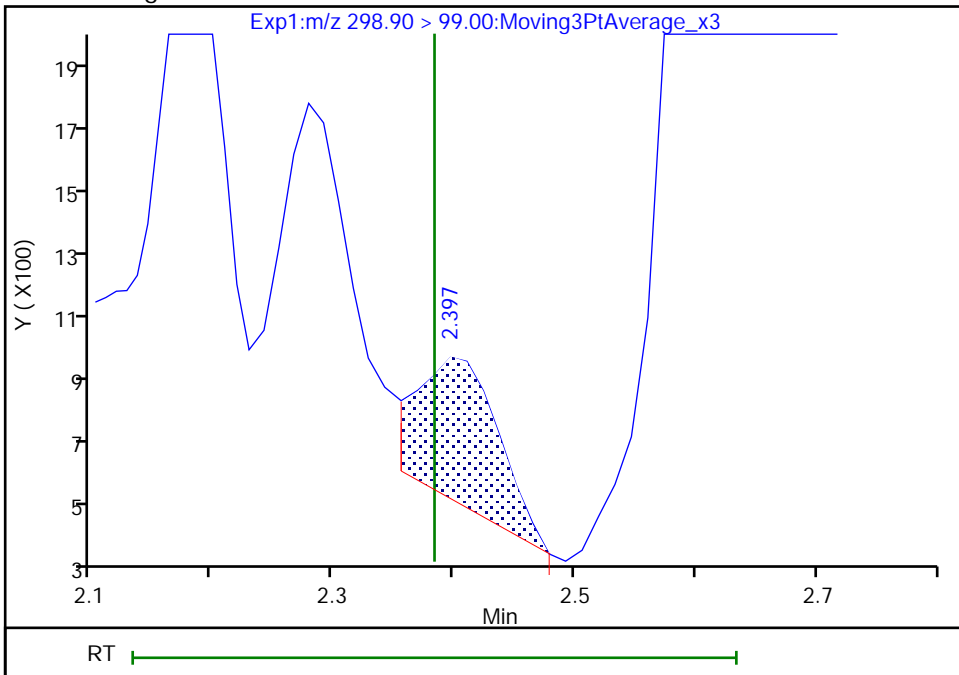
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 2015
Amount: 0.003309
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:42:56

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

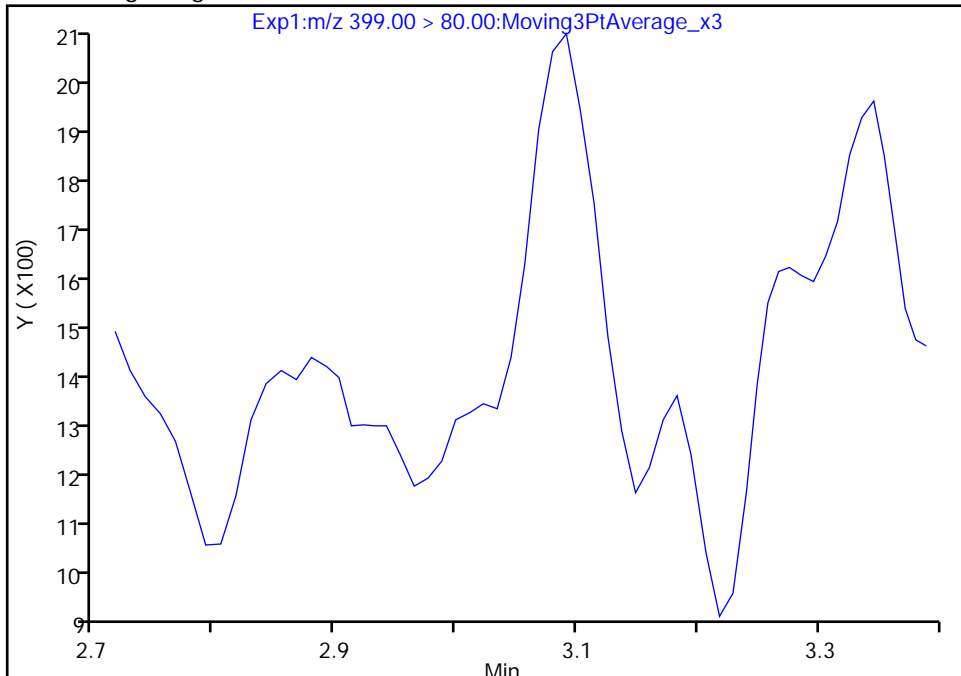
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

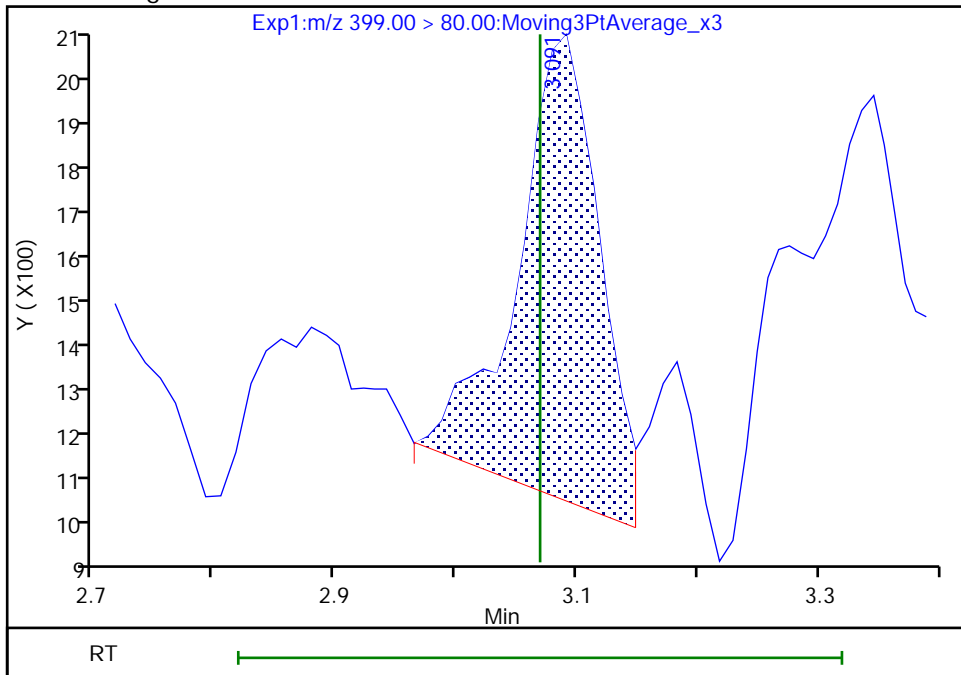
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 4848
Amount: 0.006793
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:44:15
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

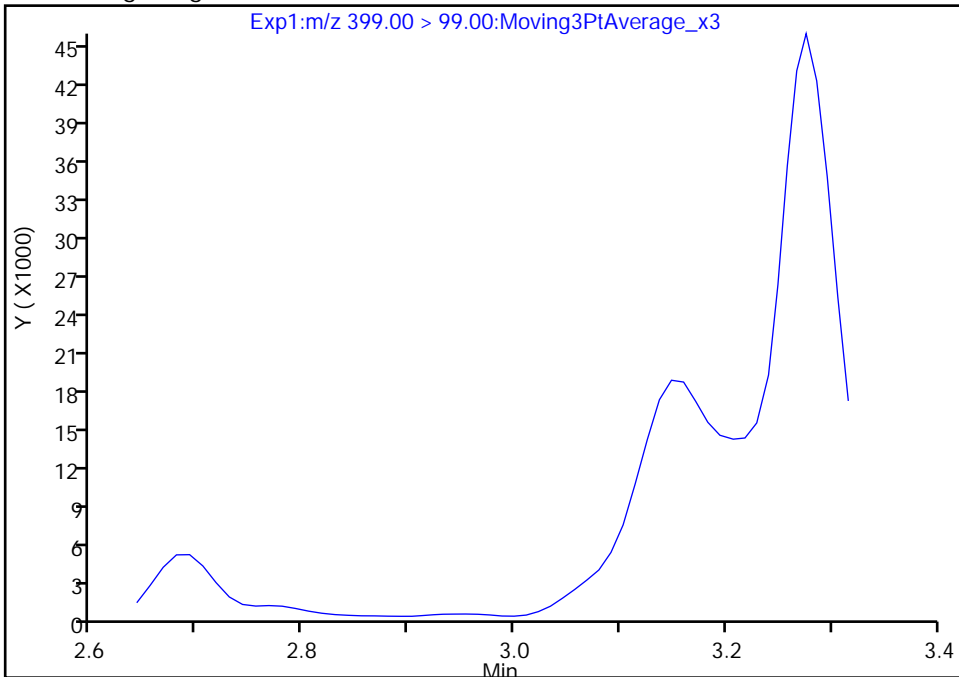
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

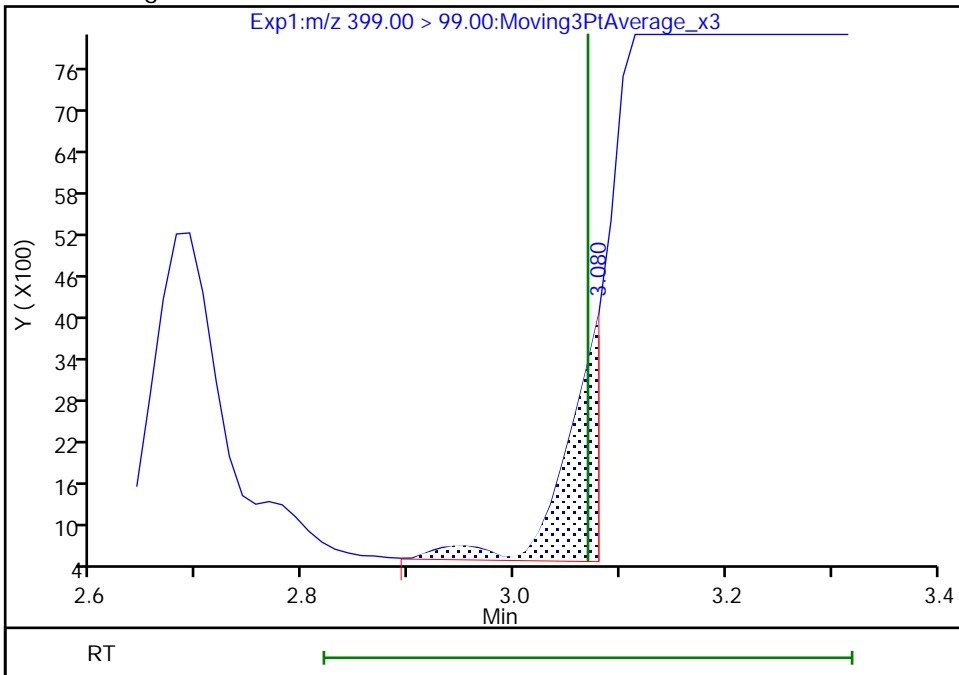
Not Detected
Expected RT: 3.07

Processing Integration Results



RT: 3.08
Area: 7183
Amount: 0.006793
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:44:21

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

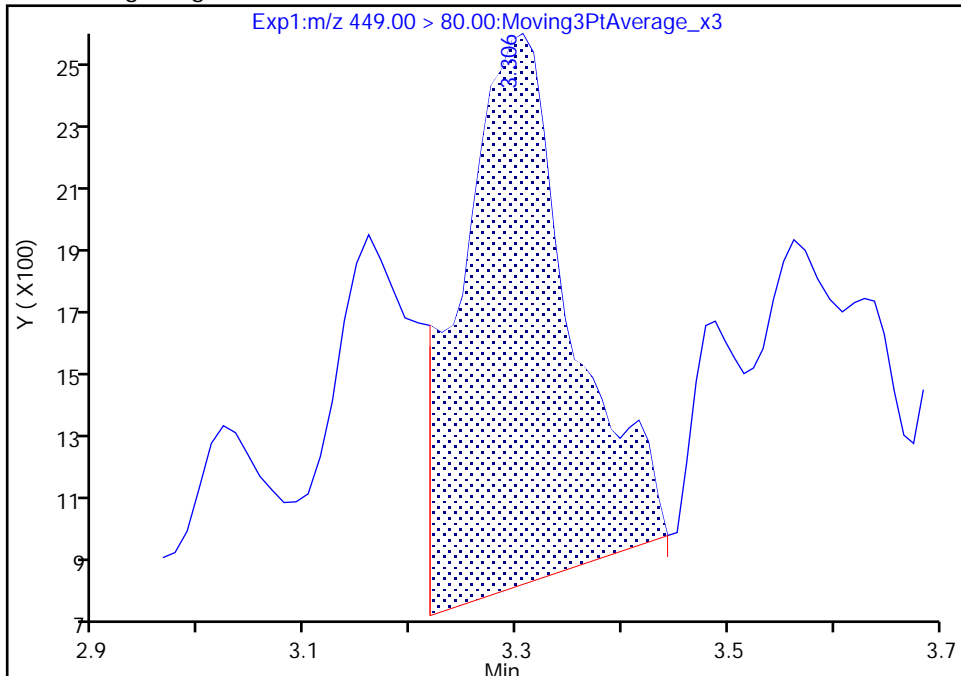
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A29.d
Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

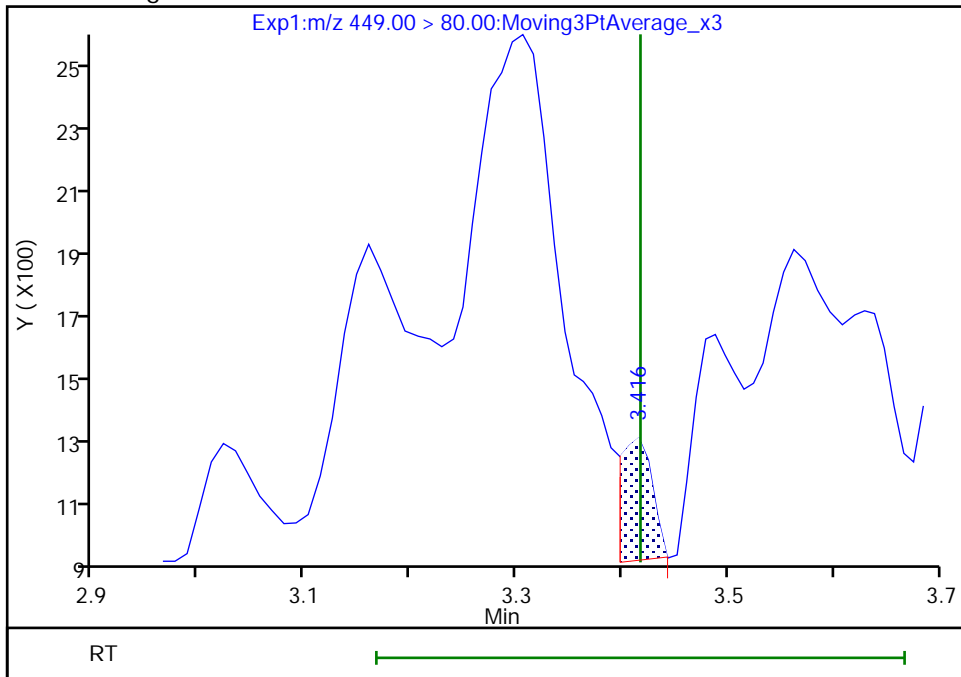
RT: 3.31
Area: 11915
Amount: 0.019563
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 663
Amount: 0.001089
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:45:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

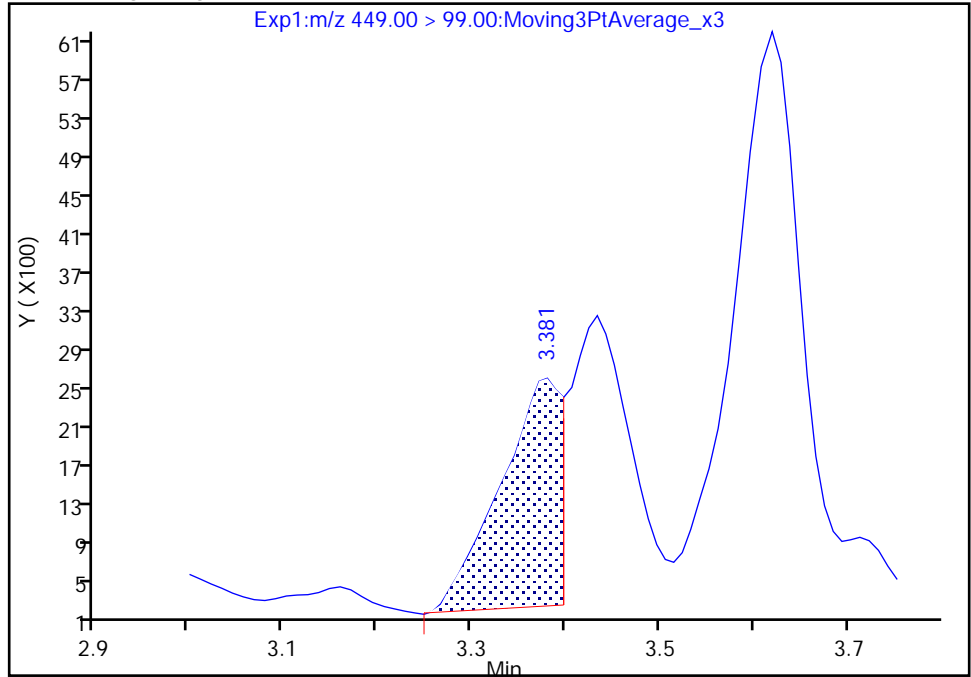
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

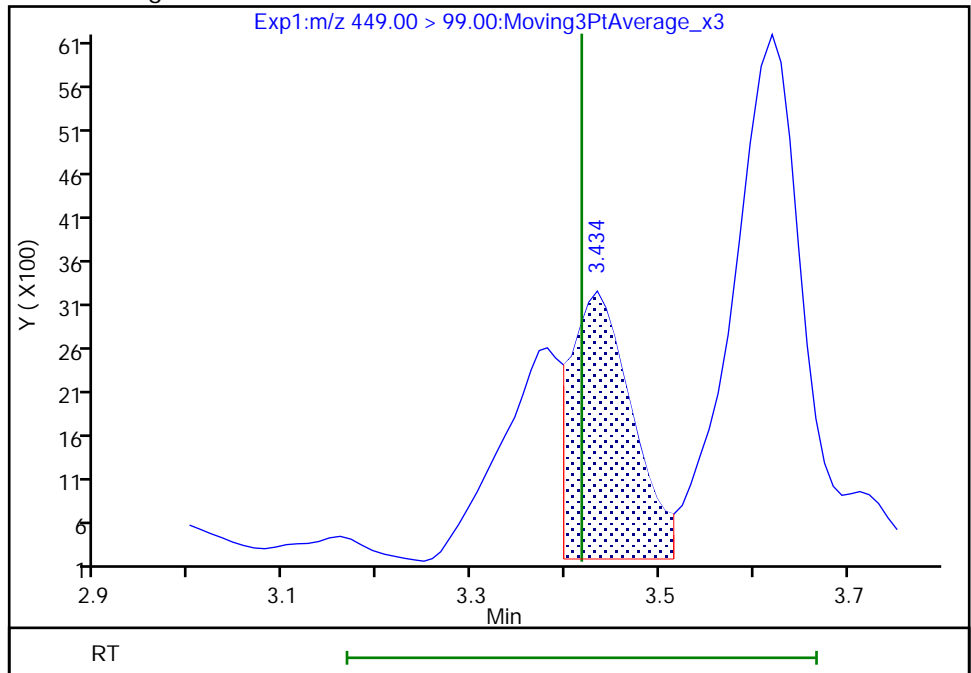
RT: 3.38
Area: 10580
Amount: 0.019563
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 13735
Amount: 0.001089
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:45:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

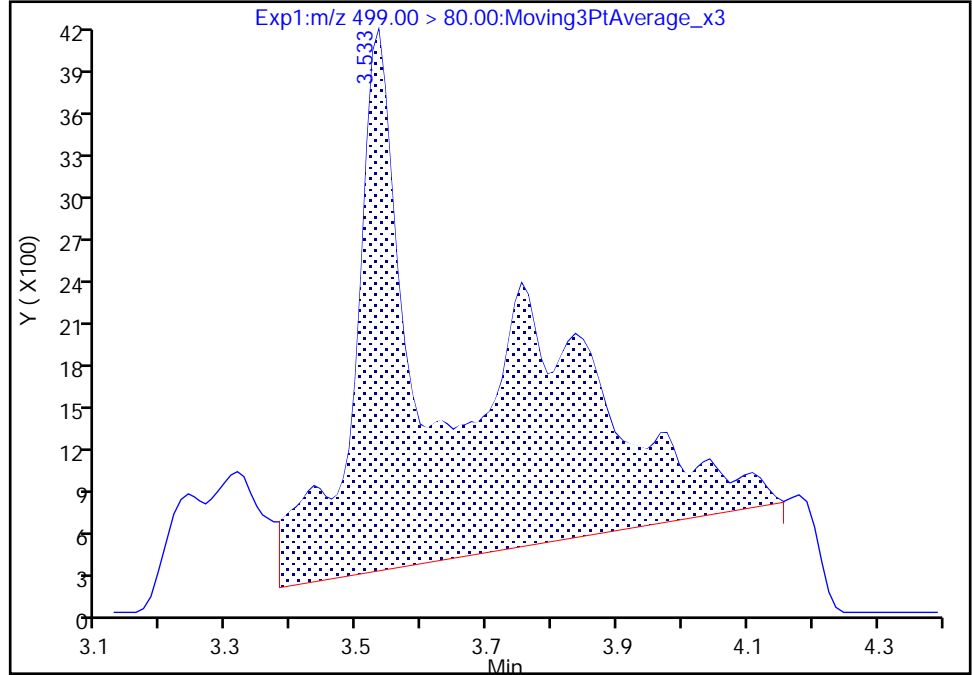
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

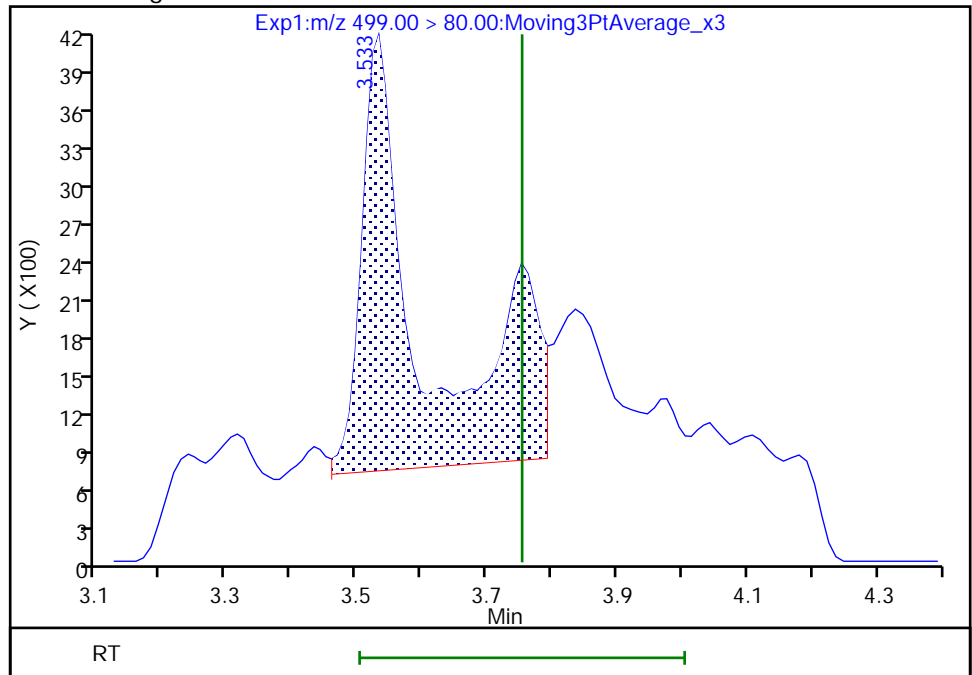
RT: 3.53
Area: 46404
Amount: 0.091261
Amount Units: ng/ml

Processing Integration Results



RT: 3.53
Area: 22782
Amount: 0.044804
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:46:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 201 of 742

Eurofins Burlington

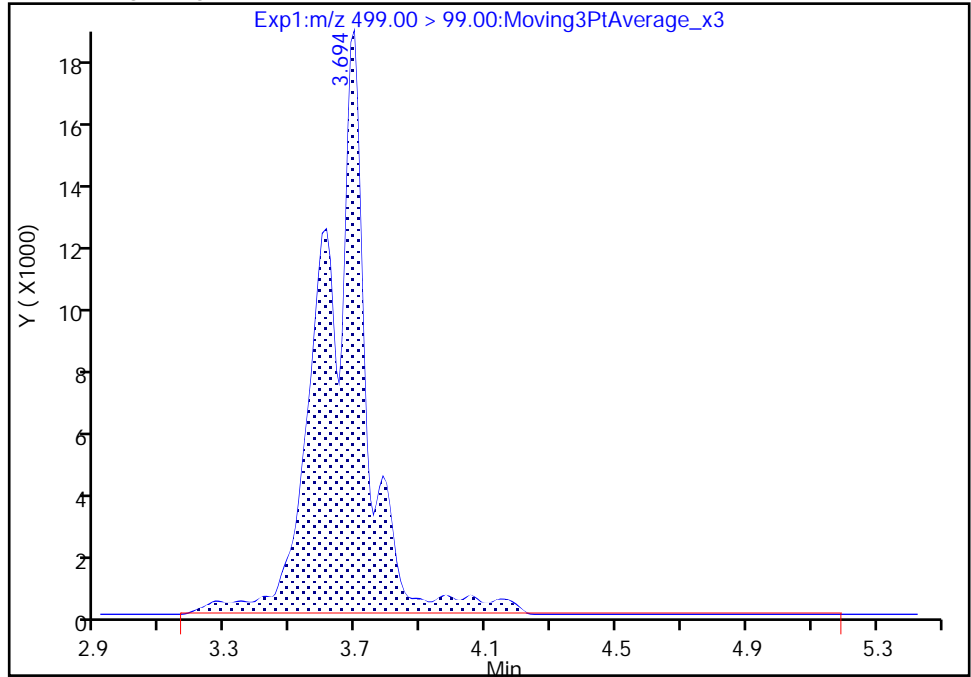
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

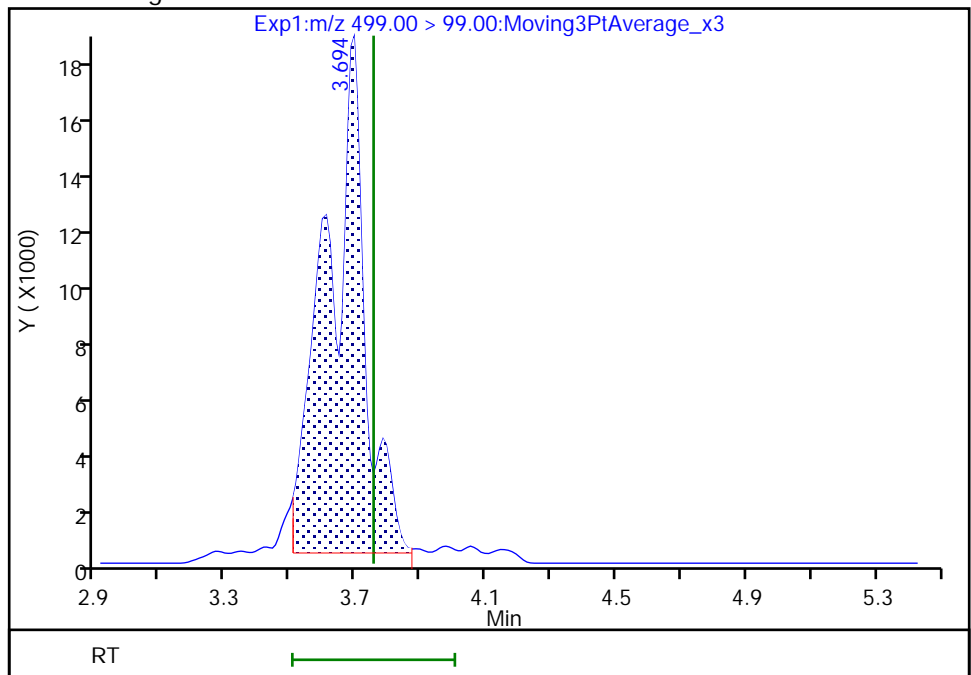
RT: 3.69
Area: 172748
Amount: 0.091261
Amount Units: ng/ml

Processing Integration Results



RT: 3.69
Area: 145024
Amount: 0.044804
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:46:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

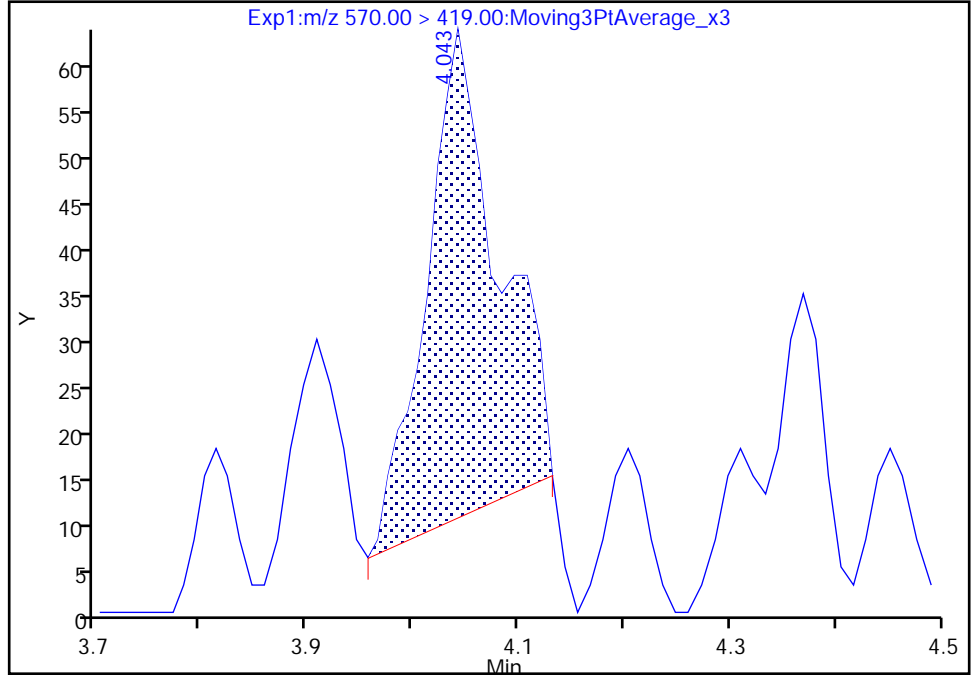
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Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

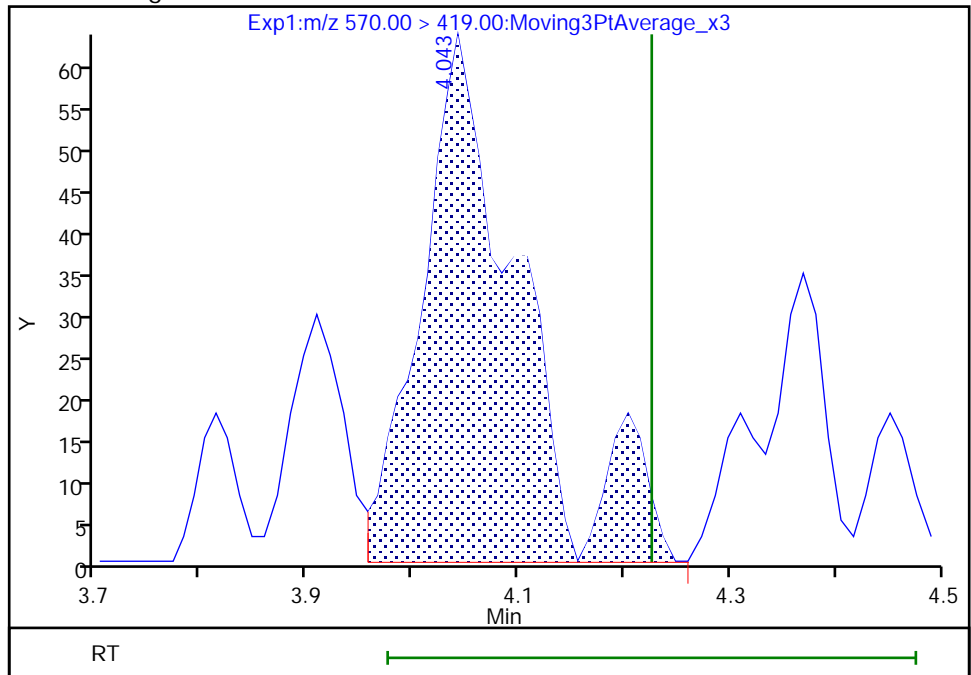
RT: 4.04
Area: 253
Amount: 0.001215
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 420
Amount: 0.002017
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:46:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

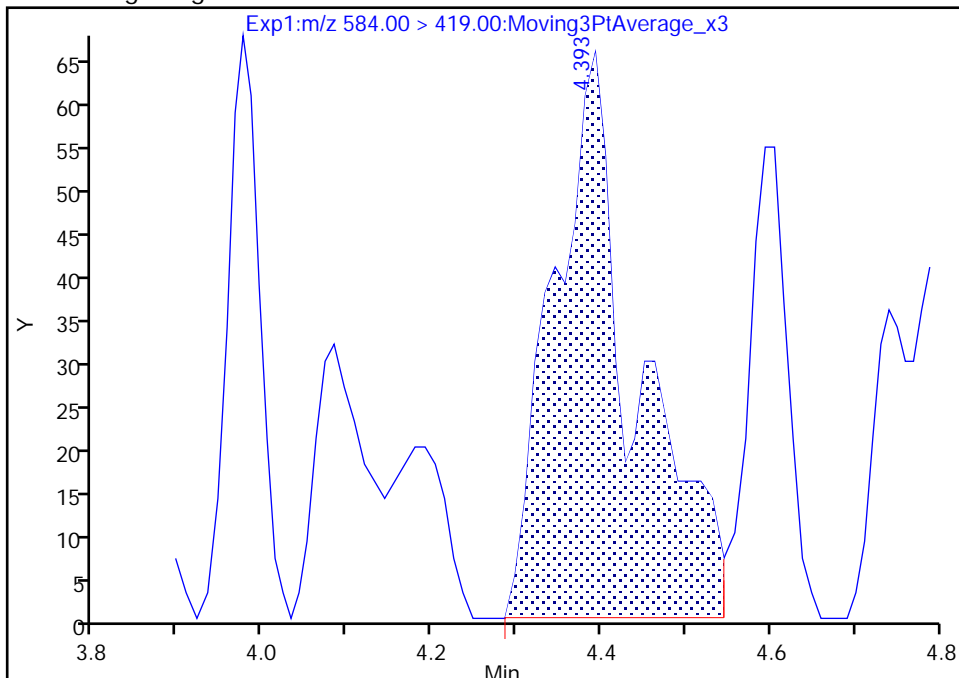
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A29.d
Injection Date: 26-Jan-2023 23:34:59 Instrument ID: LC812
Lims ID: 460-273176-A-6-A Lab Sample ID: 200-273176-6
Client ID: DUP_09_011823_2P
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

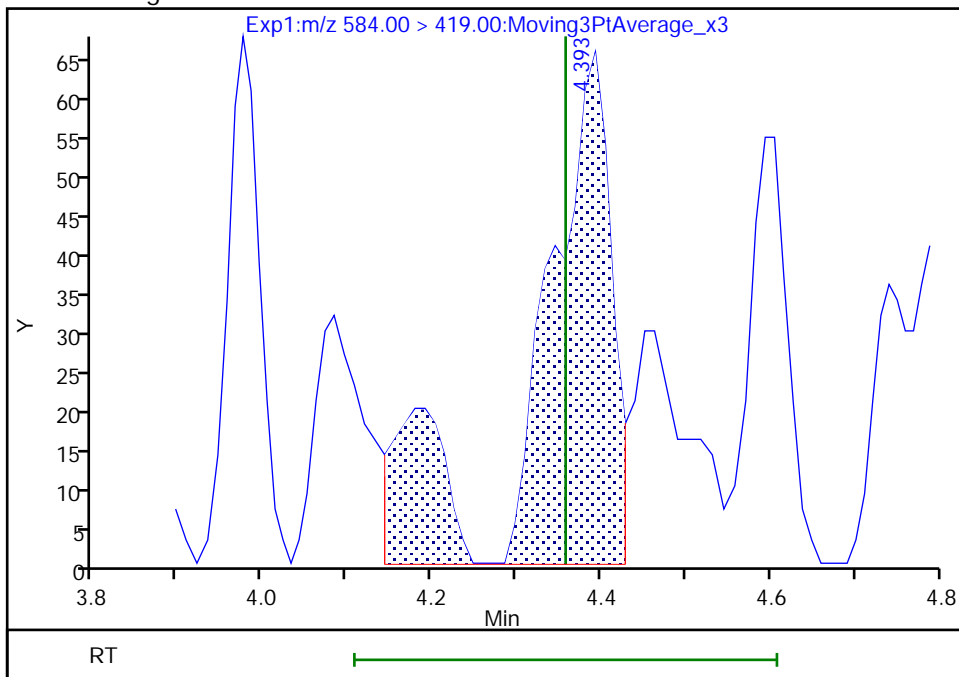
RT: 4.39
Area: 445
Amount: 0.001717
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 394
Amount: 0.001521
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:47:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

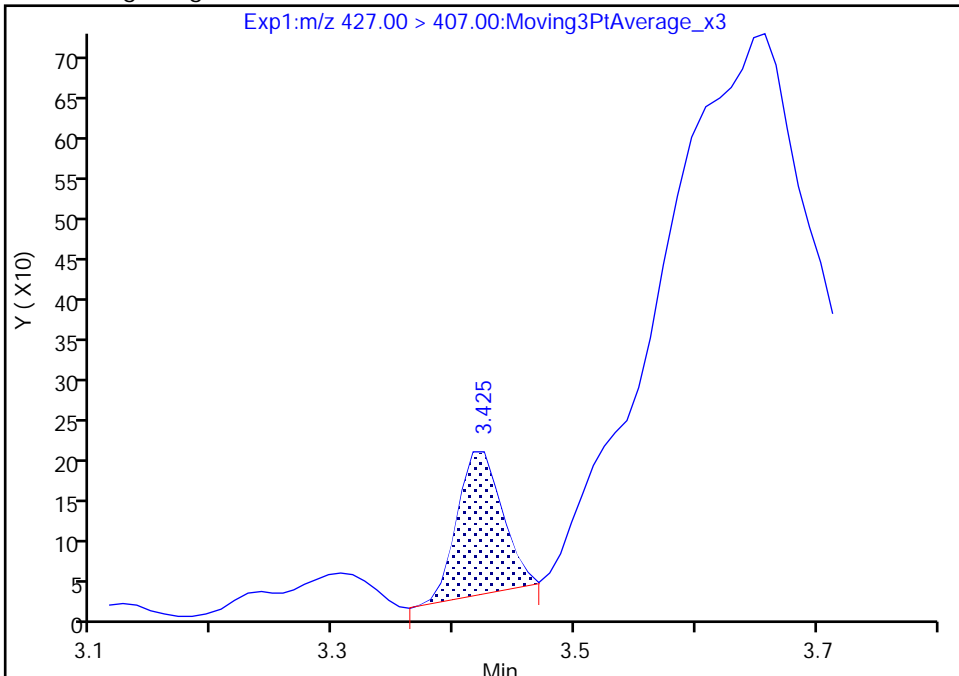
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Injection Date:	26-Jan-2023 23:34:59	Instrument ID:	LC812
Lims ID:	460-273176-A-6-A	Lab Sample ID:	200-273176-6
Client ID:	DUP_09_011823_2P		
Operator ID:	LC812user	ALS Bottle#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	29

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

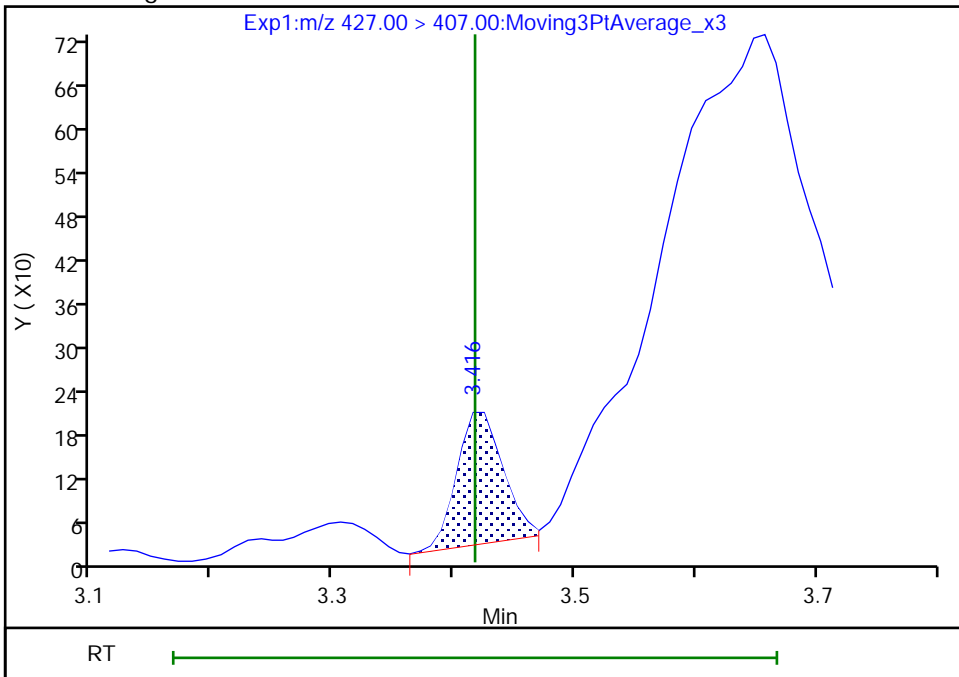
RT: 3.42
 Area: 461
 Amount: 0.001260
 Amount Units: ng/ml

Processing Integration Results



RT: 3.42
 Area: 481
 Amount: 0.001315
 Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:45:04
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-187441/5	PA230111ICAL05.d
Level 2	IC 200-187441/6	PA230111ICAL06.d
Level 3	IC 200-187441/7	PA230111ICAL07.d
Level 4	ICISAV 200-187441/8	PA230111ICAL08.d
Level 5	IC 200-187441/9	PA230111ICAL09.d
Level 6	IC 200-187441/10	PA230111ICAL10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.7462 0.9164	1.3967	1.0848	0.9793	0.9383	L2ID	0.041 1	0.947 4						0.9980		0.9900	
Perfluoropentanoic acid (PFPeA)	1.2953 0.9746	1.2916	1.2083	1.0470	1.0548	AveI D		1.145 3			12.0	20.0					
Perfluorobutanesulfonic acid (PFBS)	1.0949 1.0289	1.2502	1.0731	1.0180	0.9626	AveI D		1.071 3			9.2	20.0					
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.3635 2.9454	3.0110	3.2050	2.6887	2.5422	AveI D		2.959 3			10.4	20.0					
Perfluorohexanoic acid (PFHxA)	1.0915 0.9166	1.1430	1.2102	0.9379	1.0222	AveI D		1.053 5			11.0	20.0					
Perfluoropentanesulfonic acid (PFPeS)	1.4203 1.2303	1.2338	1.2737	1.1641	1.0992	AveI D		1.236 9			8.8	20.0					
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.0561 0.9532	1.0921	0.9722	0.9665	0.9572	AveI D		0.999 5			5.9	20.0					
Perfluorohexanesulfonic acid (PFHxS)	1.2228 1.1503	1.1678	1.1955	0.9523	0.8973	AveI D		1.097 7			12.5	20.0					
Perfluoroheptanoic acid (PFHpA)	1.1744 0.9428	1.1272	1.1408	1.0486	0.9556	AveI D		1.064 9			9.3	20.0					
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.3005 5.0127	5.9896	6.1710	5.4476	5.4851	AveI D		5.734 4			8.7	20.0					
Perfluoroheptanesulfonic acid (PFHpS)	1.6276 1.3686	1.4100	1.7300	1.2952	1.2993	AveI D		1.455 1			12.5	20.0					
6:2 FTS	2.4770 2.1419	2.3363	2.4217	2.2093	2.1534	AveI D		2.289 9			6.2	20.0					
Perfluorooctanoic acid (PFOA)	1.1430 0.9781	1.2734	1.1152	0.9189	1.1011	AveI D		1.088 3			11.6	20.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorooctanesulfonic acid (PFOS)	1.3930 1.1653	1.2870	1.2863	1.0861	1.0713	AveI n		1.214 8			10.5		20.0				
Perfluorononanoic acid (PFNA)	1.0459 0.9908	1.1058	1.1325	0.9352	0.9191	AveI n		1.021 5			8.6		20.0				
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF30)	3.0182 2.8462	3.1746	3.1293	2.5005	2.7305	AveI n		2.899 9			8.9		20.0				
Perfluorononanesulfonic acid (PFNS)	1.0299 0.8967	1.0105	1.2158	0.9723	0.9286	AveI n		1.009 0			11.2		20.0				
Perfluorodecanoic acid (PFDA)	1.0820 0.9990	1.1363	1.0525	1.0508	1.0948	AveI n		1.069 2			4.4		20.0				
8:2 FTS	2.1264 1.6028	1.9033	1.9345	1.6572	1.6603	AveI n		1.814 1			11.4		20.0				
Perfluorooctanesulfonamide (FOSA)	1.1087 0.9591	1.0932	0.9734	0.9296	0.9703	AveI n		1.005 7			7.5		20.0				
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.9615 0.8881	0.9980	0.8582	0.8312	0.8729	AveI n		0.901 6			7.1		20.0				
Perfluorodecanesulfonic acid (PFDS)	0.7319 0.7244	0.7810	0.8410	0.7337	0.7007	AveI n		0.752 1			6.7		20.0				
Perfluoroundecanoic acid (PFUnA)	1.2425 1.0122	1.1459	1.2529	0.8683	1.0282	AveI n		1.091 7			13.7		20.0				
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.9598 0.9177	0.9727	0.9740	0.8421	0.9082	AveI n		0.929 1			5.5		20.0				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	4.5751 4.0106	4.1242	5.4154	4.3843	4.4172	AveI n		4.487 8			11.1		20.0				
Perfluorododecanoic acid (PFDoA)	1.0541 0.9120	1.0771	1.1194	0.9853	0.9608	AveI n		1.018 1			7.7		20.0				
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	1.2333 1.0073	1.0844	1.2588	1.2126	1.0858	AveI n		1.147 0			8.8		20.0				
Perfluorododecanesulfonic acid (PFDoS)	0.3232 0.2742	0.3215	0.3297	0.2914	0.2932	AveI n		0.305 5			7.3		20.0				
Perfluorotridecanoic acid (PFTriA)	1.0219 0.9504	1.0710	1.0517	1.0342	0.9721	AveI n		1.016 9			4.6		20.0				
Perfluorotetradecanoic acid (PFTeA)	0.1340 0.1189	0.1223	0.1464	0.1102	0.1173	AveI n		0.124 9			10.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.1782 0.8995	1.1022	0.9409	0.9076	0.9276	L2ID	0.014 4	0.912 3						0.9990		0.9900	
Perfluoro-n-octadecanoic acid (PFODA)	0.8958 0.7814	0.8744	0.7577	0.7583	0.7853	AveI D		0.808 8			7.5		20.0				
13C4 PFBA	1.1237 1.1900	1.1258	1.1950	1.0721	1.1919	Ave		1.149 8			4.4		50.0				
13C5 PFPeA	0.8509 0.9981	1.0241	0.8906	0.9149	0.8979	Ave		0.929 4			7.2		50.0				
13C3 PFBS	1.0626 1.0296	1.0235	1.0538	0.9716	0.9807	Ave		1.020 3			3.7		50.0				
M2-4:2 FTS	0.0749 0.0835	0.0810	0.0815	0.0816	0.0925	Ave		0.082 5			6.9		50.0				
13C2 PFHxA	1.0061 0.9721	0.9762	0.9575	0.9547	0.9277	Ave		0.965 7			2.7		50.0				
13C3 HFPO-DA	0.1622 0.1889	0.1542	0.1749	0.1576	0.1661	Ave		0.167 3			7.6		50.0				
18O2 PFHxS	0.6899 0.6979	0.8203	0.7425	0.6908	0.8130	Ave		0.742 4			8.2		50.0				
13C4 PFHpA	0.9184 0.9886	1.0795	0.9898	0.8939	0.9309	Ave		0.966 9			7.0		50.0				
M2-6:2 FTS	0.1209 0.1124	0.1174	0.1291	0.1098	0.1126	Ave		0.117 0			6.1		50.0				
13C4 PFOA	1.0285 0.9974	1.0458	1.0585	1.0085	1.0074	Ave		1.024 4			2.4		50.0				
13C4 PFOS	0.4435 0.4597	0.4913	0.4397	0.4255	0.4487	Ave		0.451 4			5.0		50.0				
13C5 PFNA	1.0107 1.0468	1.0002	1.0023	0.9537	0.9743	Ave		0.998 0			3.2		50.0				
13C2 PFDA	1.0367 1.0250	1.0671	1.1073	0.8970	1.0092	Ave		1.023 7			6.9		50.0				
M2-8:2 FTS	0.1457 0.1574	0.1581	0.1542	0.1274	0.1370	Ave		0.146 6			8.5		50.0				
13C8 FOSA	0.8253 0.8728	0.8357	0.8719	0.7704	0.8161	Ave		0.832 0			4.6		50.0				
d3-NMeFOSAA	0.1876 0.2078	0.2012	0.2152	0.1958	0.1999	Ave		0.201 3			4.7		50.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFUnA	0.8359 0.8672	0.9224	0.9189	0.9007	0.8564	Ave		0.883 6			4.0		50.0				
d5-NEtFOSAA	0.1902 0.1885	0.1829	0.2121	0.2002	0.1862	Ave		0.193 4			5.6		50.0				
13C2 PFDoA	0.9534 0.9050	0.9051	0.9009	0.7556	0.8960	Ave		0.886 0			7.6		50.0				
13C2 PFTeDA	0.7511 0.7474	0.8509	0.7284	0.7392	0.7552	Ave		0.762 0			5.8		50.0				
13C2 PFHxDA	0.9033 0.9251	0.9460	0.9942	0.9115	0.9235	Ave		0.933 9			3.5		50.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-187441/5	PA230111ICAL05.d
Level 2	IC 200-187441/6	PA230111ICAL06.d
Level 3	IC 200-187441/7	PA230111ICAL07.d
Level 4	ICISAV 200-187441/8	PA230111ICAL08.d
Level 5	IC 200-187441/9	PA230111ICAL09.d
Level 6	IC 200-187441/10	PA230111ICAL10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		L2ID	142103 14409984	216064	904017	1680686	4203191	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveI D	79825 12853538	181764	750439	1533220	3559403	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveI D	74489 12374636	155428	697170	1399644	3136677	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveI D	17042 3035667	31295	170052	328155	825329	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveI D	79528 11773517	153319	808024	1433323	3563945	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveI D	66568 10642645	130444	618646	1207423	3150424	0.0469 9.38	0.0938	0.469	0.938	2.35
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveI D	12408 2379250	23137	118554	243821	597481	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveI D	55602 9653257	119784	563340	958204	2494896	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveI D	78112 12316130	167208	787489	1500383	3343362	0.0500 10.0	0.100	0.500	1.00	2.50

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveI D	190620	380912	1782286	3494924	8713801	0.0471	0.0942	0.471	0.942	2.36
			28682102					9.42				
Perfluoroheptanesulfonic acid (PFHpS)		AveI D	49766	90625	504952	839730	2085994	0.0476	0.0952	0.476	0.952	2.38
			7913887					9.52				
6:2 FTS		AveI D	20558	35721	206634	368264	864239	0.0474	0.0948	0.474	0.948	2.37
			3014732					9.48				
Perfluorooctanoic acid (PFOA)		AveI D	85138	183000	823197	1483412	4169314	0.0500	0.100	0.500	1.00	2.50
			12889938					10.0				
Perfluorooctanesulfonic acid (PFOS)		AveI D	41517	80631	365984	686438	1676540	0.0464	0.0928	0.464	0.928	2.32
			6568603					9.28				
Perfluorononanoic acid (PFNA)		AveI D	76554	151976	791576	1427691	3365289	0.0500	0.100	0.500	1.00	2.50
			13704243					10.0				
9-Chlorohexadecafluoro-3-oxanona ne-1-sulfonic acid (9Cl-PF3O)		AveI D	90345	199750	894206	1587156	4291748	0.0466	0.0932	0.466	0.932	2.33
			16112575					9.32				
Perfluorononanesulfonic acid (PFNS)		AveI D	31754	65489	357862	635724	1503391	0.0480	0.0960	0.480	0.960	2.40
			5228531					9.60				
Perfluorodecanoic acid (PFDA)		AveI D	81234	166612	812767	1508795	4152457	0.0500	0.100	0.500	1.00	2.50
			13531217					10.0				
8:2 FTS		AveI D	21496	39610	199244	323636	818892	0.0479	0.0958	0.479	0.958	2.40
			3193567					9.58				
Perfluorooctanesulfonamide (FOSA)		AveI D	66264	125528	591874	1146375	2976080	0.0500	0.100	0.500	1.00	2.50
			11060932					10.0				
N-methylperfluorooctanesulfonami doacetic acid (NMeFOSAA)		AveI D	13064	27592	128807	260489	655768	0.0500	0.100	0.500	1.00	2.50
			2439119					10.0				

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorodecanesulfonic acid (PFDS)		AveI D	22662	50826	248562	481722	1139225	0.0482	0.0964	0.482	0.964	2.41
			4241647					9.64				
Perfluoroundecanoic acid (PFUnA)		AveI D	75220	145234	802887	1251894	3309497	0.0500	0.100	0.500	1.00	2.50
			11599574					10.0				
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)		AveI D	13222	24452	144069	269901	635414	0.0500	0.100	0.500	1.00	2.50
			2286410					10.0				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)		AveI D	138419	262279	1564055	2812735	7017264	0.0471	0.0942	0.471	0.942	2.36
			22948092					9.42				
Perfluorododecanoic acid (PFDoA)		AveI D	72778	133951	703268	1191739	3235379	0.0500	0.100	0.500	1.00	2.50
			10906213					10.0				
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)		AveI D	12546	22709	130458	238306	538890	0.0482	0.0964	0.482	0.964	2.41
			2019665					9.64				
Perfluorododecanesulfonic acid (PFDoS)		AveI D	10049	21013	97843	192076	478683	0.0484	0.0968	0.484	0.968	2.42
			1612015					9.68				
Perfluorotridecanoic acid (PFTriA)		AveI D	70556	133190	660761	1250877	3273521	0.0500	0.100	0.500	1.00	2.50
			11366065					10.0				
Perfluorotetradecanoic acid (PFTeA)		AveI D	7288	14302	74373	130430	332815	0.0500	0.100	0.500	1.00	2.50
			1174671					10.0				
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	77078	143274	652349	1324223	3219693	0.0500	0.100	0.500	1.00	2.50
			10994952					10.0				
Perfluoro-n-octadecanoic acid (PFODA)		AveI D	58602	113666	525342	1106340	2725859	0.0500	0.100	0.500	1.00	2.50
			9551474					10.0				
13C4 PFBA	13PF OA	Ave	2034465	1933662	2083329	2145155	2239855	1.25	1.25	1.25	1.25	1.25
			1965657					1.25				

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
13C5 PFPeA	13PF OA	Ave	1540644 1648533	1759059	1552712	1830527	1687291	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	1789240 1581618	1634896	1708666	1807983	1713984	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	126667 128831	129921	132646	152562	162324	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	1821594 1605635	1676752	1669242	1910330	1743329	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PF OA	Ave	293722 311994	264830	304873	315350	312102	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	1181711 1090521	1332857	1224605	1307522	1445292	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	1662871 1632836	1854236	1725691	1788525	1749350	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	207925 176307	191525	213768	208801	201091	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	1862193 1647382	1796317	1845411	2017935	1893164	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	767609 725859	806762	732775	813855	806118	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	1829843 1728974	1717986	1747438	1908294	1830847	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	1876926 1693037	1832892	1930492	1794868	1896398	1.25 1.25	1.25	1.25	1.25	1.25

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

Lab Name: Eurofins Burlington Job No.: 460-273176-1 Analy Batch No.: 187441

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 17:43 Calibration End Date: 01/11/2023 18:23 Calibration ID: 49712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
M2-8:2 FTS	13PF OA	Ave	252732 249058	260139	257487	244119	246611	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PF OA	Ave	1494202 1441602	1435323	1520143	1541478	1533594	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PF OA	Ave	339683 343314	345587	375217	391757	375639	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PF OA	Ave	1513495 1432402	1584296	1602066	1802127	1609362	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PF OA	Ave	344409 311422	314232	369795	400616	349833	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PF OA	Ave	1726095 1494839	1554552	1570634	1511917	1683692	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PF OA	Ave	1359960 1234482	1461569	1269926	1479086	1419059	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PF OA	Ave	1635507 1527972	1624889	1733261	1823724	1735459	1.25 1.25	1.25	1.25	1.25	1.25

Curve Type Legend
 Ave = Average ISTD
 AveID = Average isotope dilution
 L2ID = Linear 1/conc^2 IsoDil

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Jan-2023 17:43:06 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-005 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:10 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 13:16:44

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.604	2034465	1.22	97.7	13285	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.095	2.094	0.001	1.004	142103	0.0488		97.5	10.2	M
D 3 13C5 PFPeA	267.90 > 223.00	2.397	2.370	0.027	0.694	1540644	1.14	91.6	6444	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.397	2.370	0.027	1.000	79825	0.0566		113	2.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.411	2.384	0.027	0.698	1789240	1.21	104	150674	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.411	2.384	0.027	1.000	74489	0.0452	Target=1.99	102	148	M
298.90 > 99.00	2.411	2.384	0.027	1.000	39467		1.89(0.99-2.98)	102	34.5	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.706	2.669	0.037	1.000	17042	0.0531	114	267	
D 60 M2-4:2 FTS	329.00 > 81.00	2.706	2.669	0.037	0.783	126667	1.06	90.8	194	
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.791	1821594	1.30	104	8873	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.744	2.706	0.038	1.005	79528	0.0518	Target=13.02	104	11.7	M
313.00 > 119.00	2.744	2.706	0.038	1.005	7764		10.24(6.51-19.53)	104	12.6	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.744	2.706	0.038	0.887	66568	0.0539	Target=2.73	115	123
349.00 > 99.00	2.744	2.706	0.038	0.887	23897		2.79(1.37-4.10)	115	84.6	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.844	2.806	0.038	1.000	12408	0.0528		106	106	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.844	2.806	0.038	0.823	293722	1.21		97.0	2770	
D 11 18O2 PFHxS										
403.00 > 84.00	3.093	3.069	0.024	0.895	1181711	1.10		92.9	6081	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.093	3.069	0.024	1.000	55602	0.0507	Target=3.13	111	187	M
399.00 > 99.00	3.104	3.069	0.035	1.004	19217		2.89(1.57-4.70)	111	35.2	
D 9 13C4 PFHpA										
367.00 > 322.00	3.104	3.069	0.035	0.898	1662871	1.19		95.0	7848	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.104	3.069	0.035	1.000	78112	0.0551	Target=3.92	110	15.7	
363.00 > 169.00	3.104	3.069	0.035	1.000	18951		4.12(1.96-5.88)	110	26.2	
77 DONA										
377.00 > 251.00	3.139	3.104	0.035	0.834	190620	0.0517	Target=3.04	110	181	
377.00 > 85.00	3.139	3.104	0.035	0.834	60497		3.15(1.52-4.56)	110	136	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.446	3.417	0.029	0.997	207925	1.23		103	1092	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.446	3.417	0.029	1.000	20558	0.0513		108	32.4	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.437	3.417	0.020	0.913	49766	0.0532	Target=4.66	112	355	
449.00 > 99.00	3.437	3.417	0.020	0.913	11767		4.23(2.33-6.99)	112	91.2	
D 14 13C4 PFOA										
417.00 > 372.00	3.455	3.426	0.029	1.000	1862193	1.26		100	6975	
* 62 13C2 PFOA										
415.00 > 370.00	3.455	3.426	0.029		1810520	1.25			7860	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.455	3.426	0.029	1.000	85138	0.0525	Target=3.01	105	7.0	
413.00 > 169.00	3.455	3.426	0.029	1.000	28641		2.97(1.50-4.51)	105	42.5	
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.089	767609	1.17		98.2	6574	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.000	41517	0.0532	Target=4.13	115	60.9	M
499.00 > 99.00	3.763	3.754	0.009	1.000	10540		3.94(2.07-6.20)	115	50.9	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.774	0.009	1.000	76554	0.0512	Target=8.58	102	11.6	
463.00 > 169.00	3.783	3.774	0.009	1.000	8391		9.12(4.29-12.87)	102	71.3	
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.774	0.009	1.095	1829843	1.27		101	6651	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.934	3.922	0.012	1.046	90345	0.0485		104	354	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	31754	0.0490	Target=2.32	102	305	
549.00 > 99.00	4.052	4.043	0.009	1.077	14668		2.16(1.16-3.48)	102	102	
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.182	1876926	1.27		101	7288	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.000	81234	0.0506	Target=10.61	101	27.4	
513.00 > 169.00	4.084	4.074	0.010	1.000	8052		10.09(5.30-15.91)	101	37.2	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.096	4.085	0.011	1.185	252732	1.19		99.4	1538	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.096	4.085	0.011	1.000	21496	0.0561		117	348	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.156	4.144	0.012	1.000	66264	0.0551		110	193	
D 21 13C8 FOSA										
506.00 > 78.00	4.156	4.144	0.012	1.203	1494202	1.24		99.2	6042	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.236	4.226	0.010	1.226	339683	1.17		93.2	2373	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.236	4.226	0.010	1.000	13064	0.0533		107	74.5	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.334	4.322	0.012	1.152	22662	0.0469	Target=2.46	97.3	318	
599.00 > 99.00	4.322	4.322	0.0	1.148	10350		2.19(1.23-3.69)	97.3	111	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.357	4.346	0.011	1.261	1513495	1.18		94.6	4452	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.357	4.346	0.011	1.000	75220	0.0569	Target=11.25	114	23.1	M
563.00 > 169.00	4.357	4.346	0.011	1.000	6710		11.21(5.62-16.87)	114	149	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.000	13222	0.0517		103	81.0	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.369	4.358	0.011	1.265	344409	1.23		98.4	716	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.451	4.452	-0.001	1.183	138419	0.0480		102	371	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.594	4.584	0.010	1.000	72778	0.0518	Target=8.15	104	9.6	
613.00 > 169.00	4.594	4.584	0.010	1.000	9583		7.59(4.08-12.23)	104	130	
D 36 13C2 PFDaA										
615.00 > 570.00	4.594	4.584	0.010	1.330	1726095	1.35		108	5820	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.616	4.606	0.010	1.127	12546	0.0518		108	256	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.267	10049	0.0512	Target=0.53	106	283	
699.00 > 99.00	4.769	4.770	-0.001	1.267	18326		0.55(0.26-0.79)	106	447	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.047	70556	0.0502	Target=6.29	100	8.7	M
663.00 > 169.00	4.808	4.799	0.009	1.047	11817		5.97(3.14-9.43)	100	133	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	7288	0.0537	Target=0.93	107	127	
713.00 > 219.00	5.004	4.998	0.006	1.000	7931		0.92(0.46-1.39)	107	201	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.448	1359960	1.23		98.6	7449	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.360	5.362	-0.002	1.000	77078	0.0488	Target=6.52	97.6	11.8	M
813.00 > 169.00	5.360	5.362	-0.002	1.000	12241		6.30(3.26-9.77)	97.6	190	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.551	1635507	1.21		96.7	4516	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.711	0.008	1.067	58602	0.0554	Target=7.39	111	11.4	
913.00 > 169.00	5.709	5.711	-0.002	1.065	7310		8.02(3.69-11.08)	111	146	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC1_00014

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d

Injection Date: 11-Jan-2023 17:43:06

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

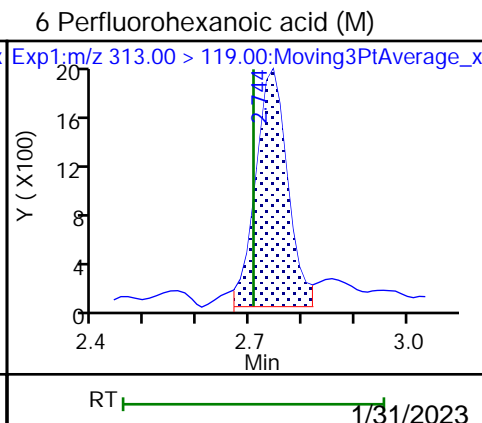
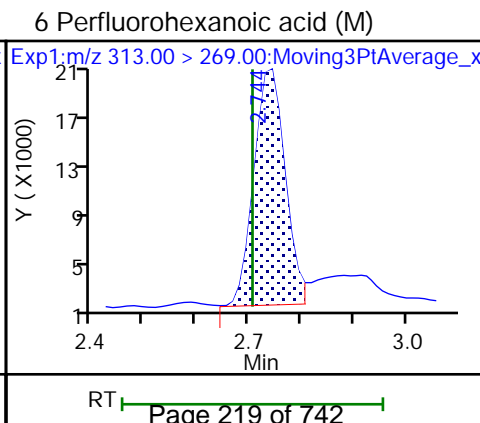
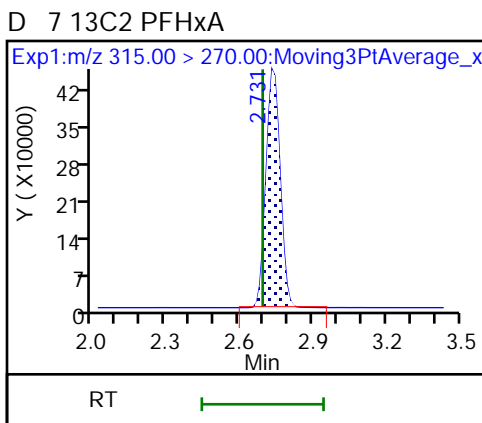
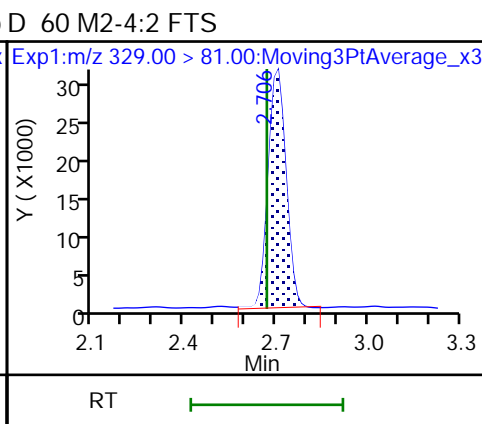
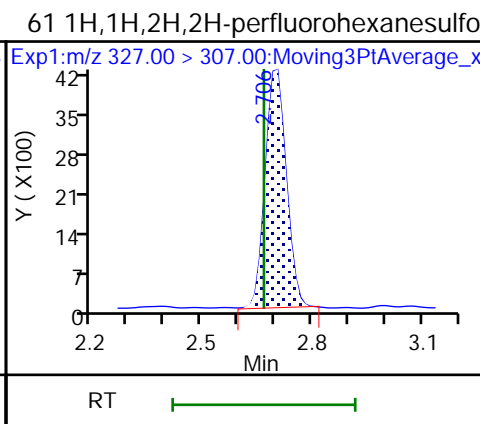
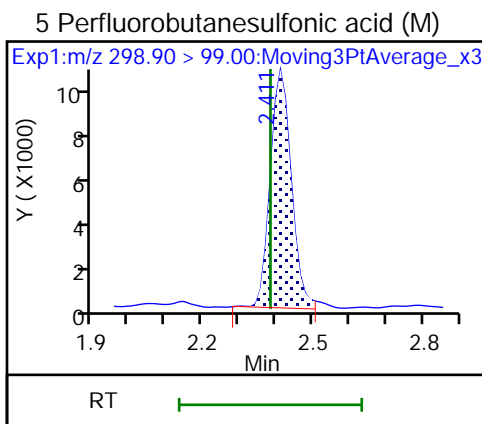
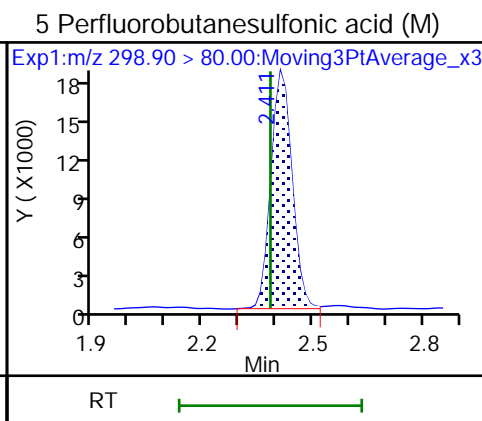
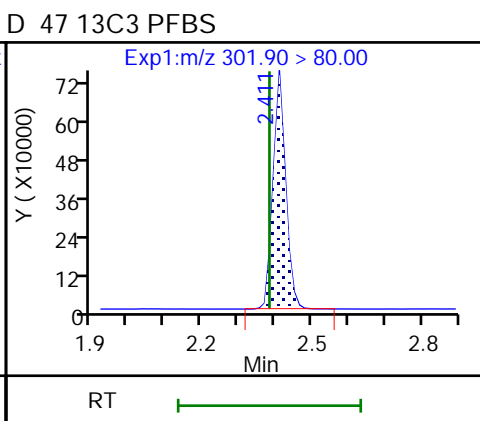
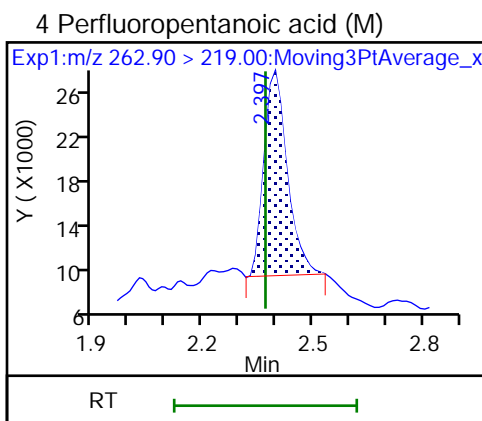
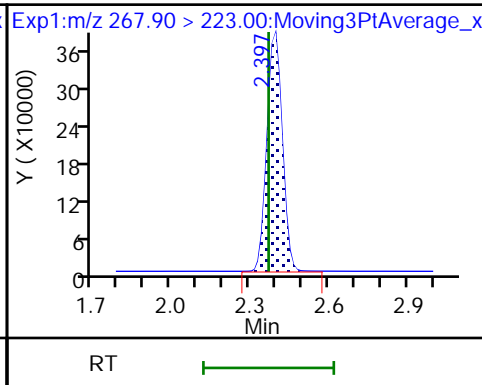
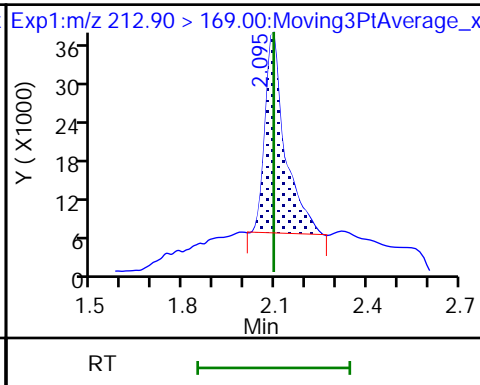
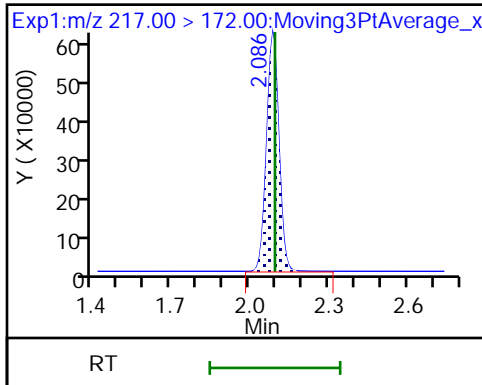
Method: PFC_LC812

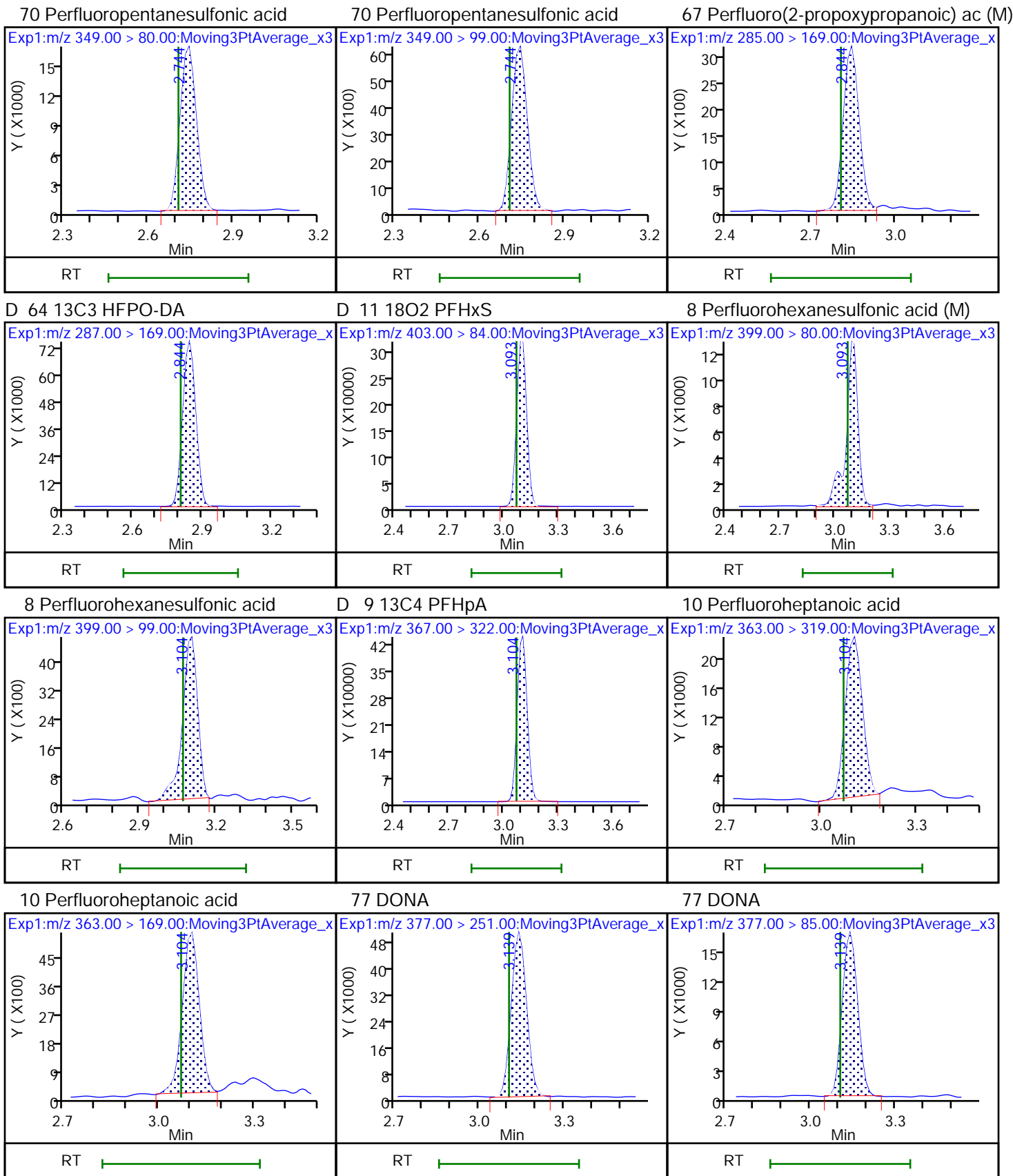
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

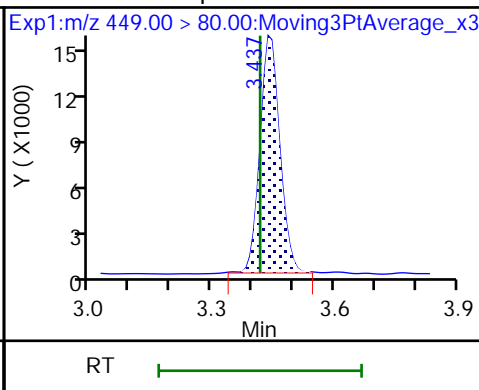
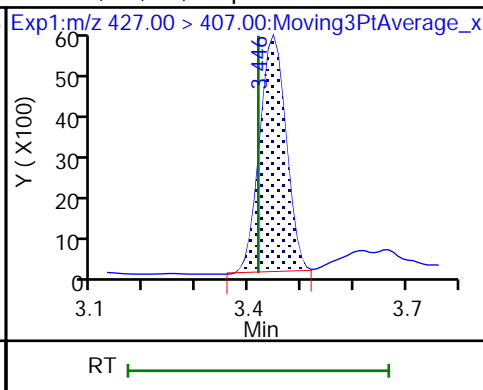
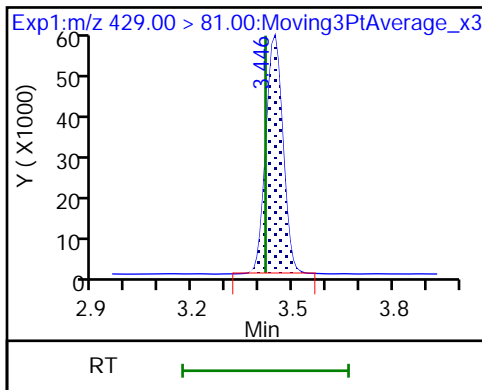




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

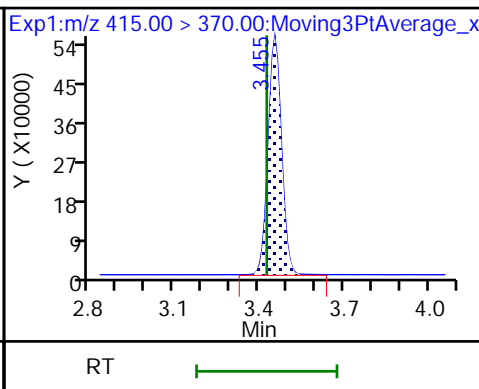
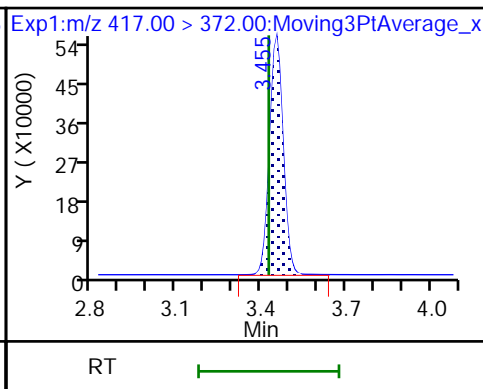
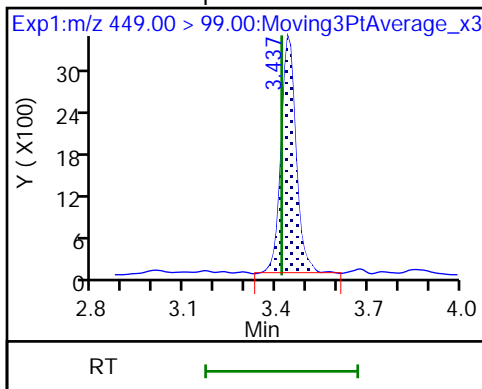
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

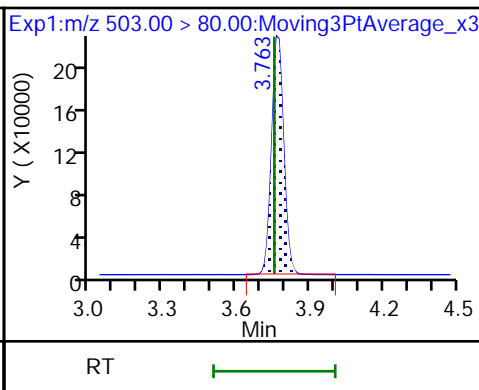
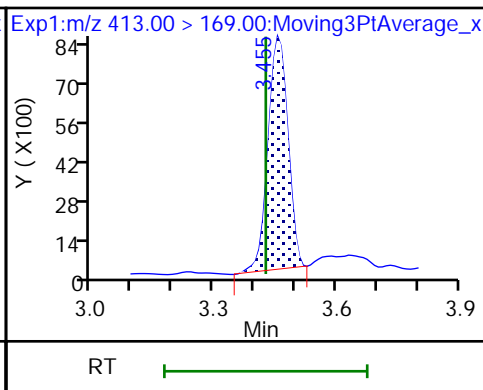
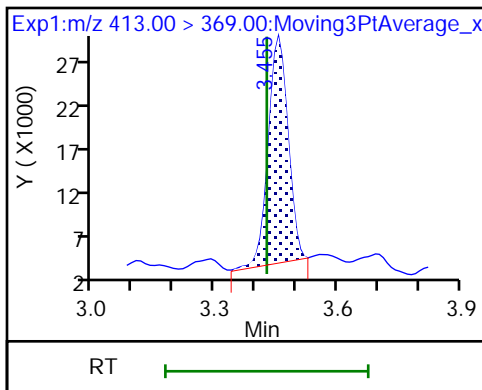
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

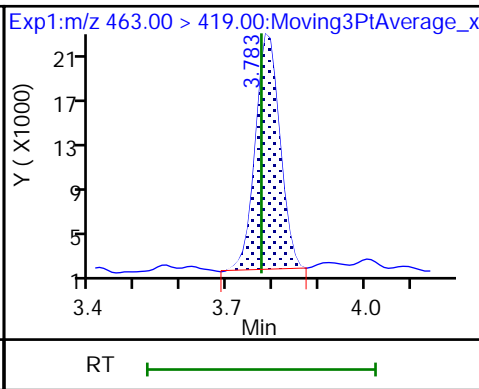
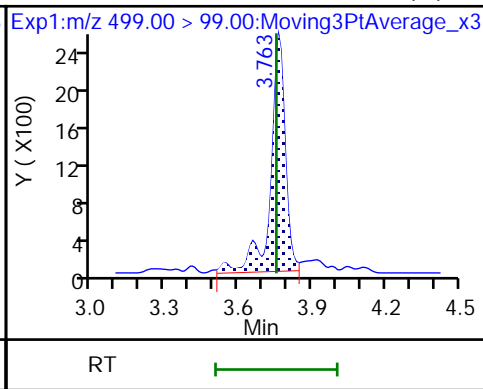
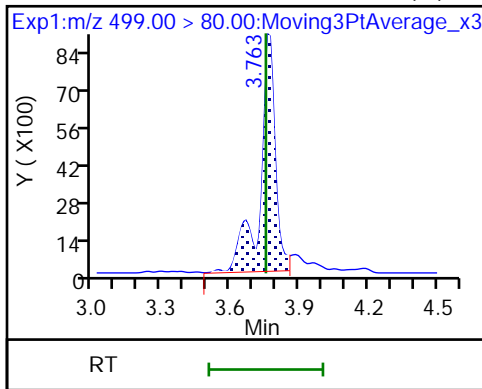
D 18 13C4 PFOS

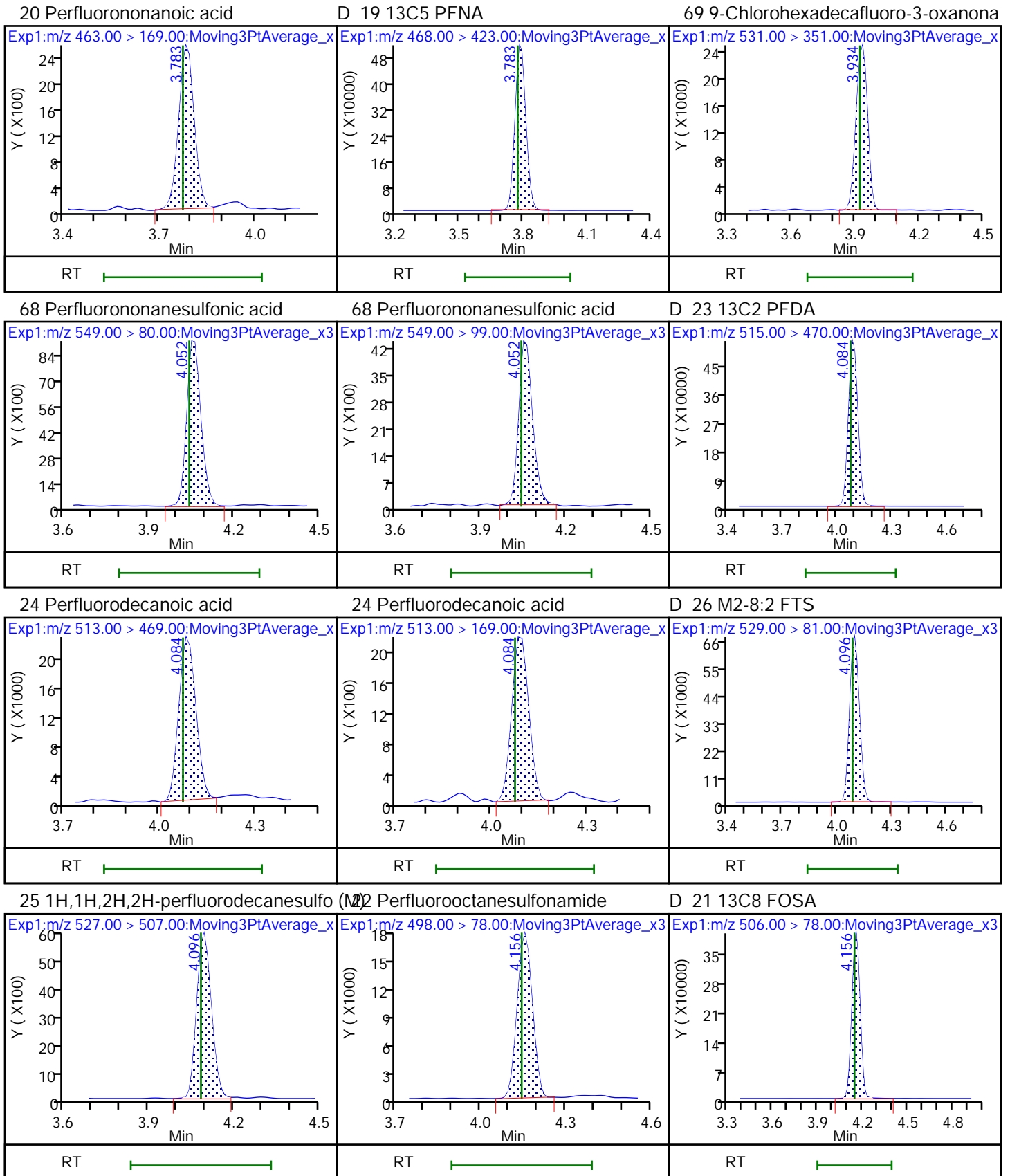


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

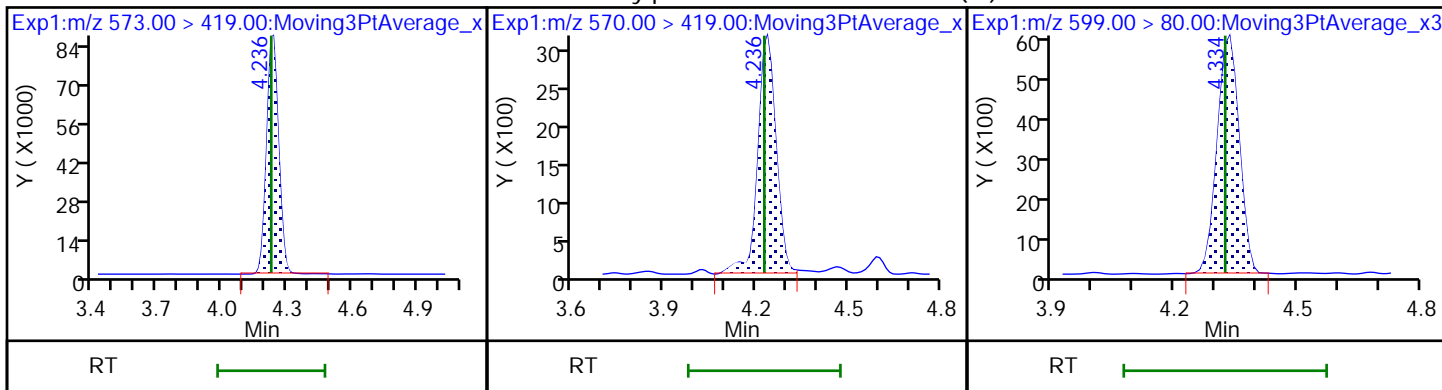
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

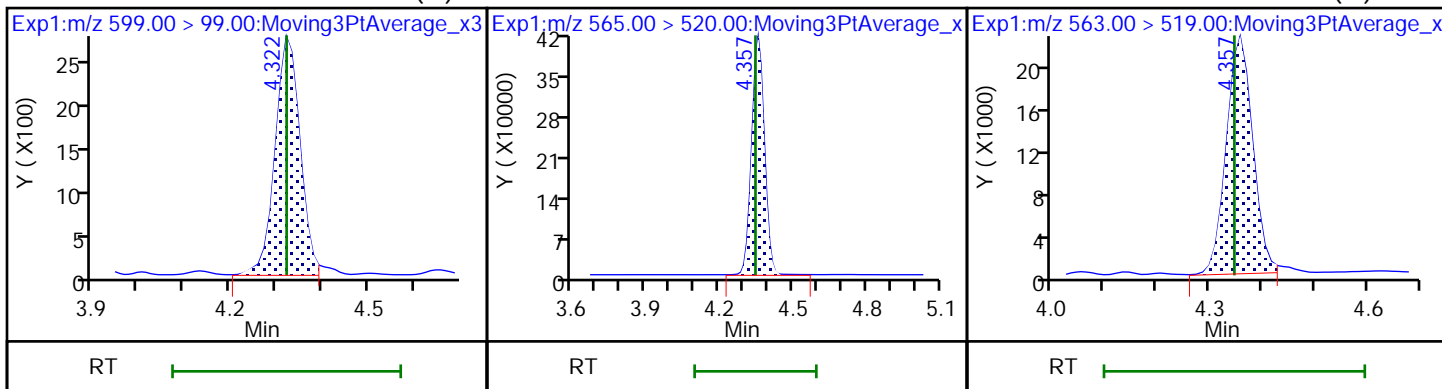
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

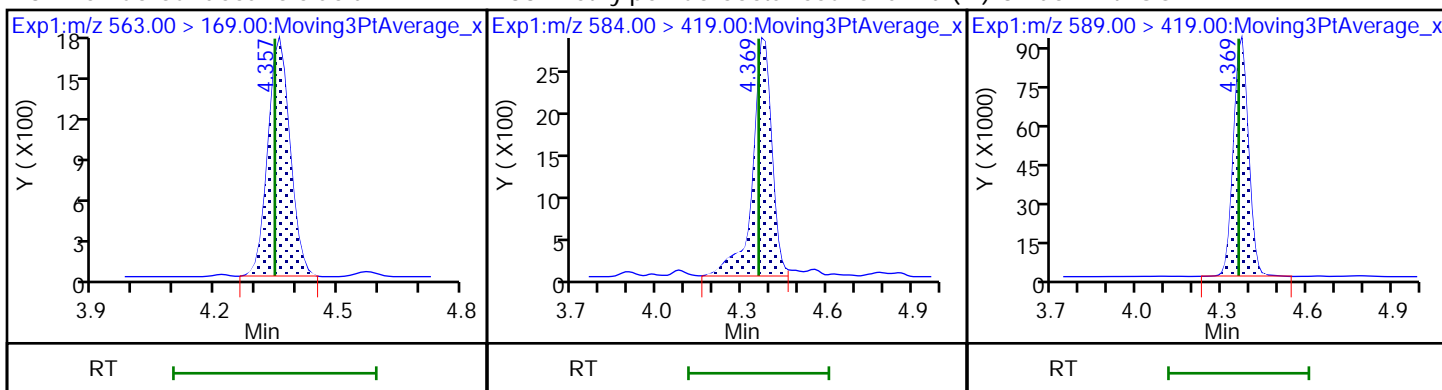
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (N)

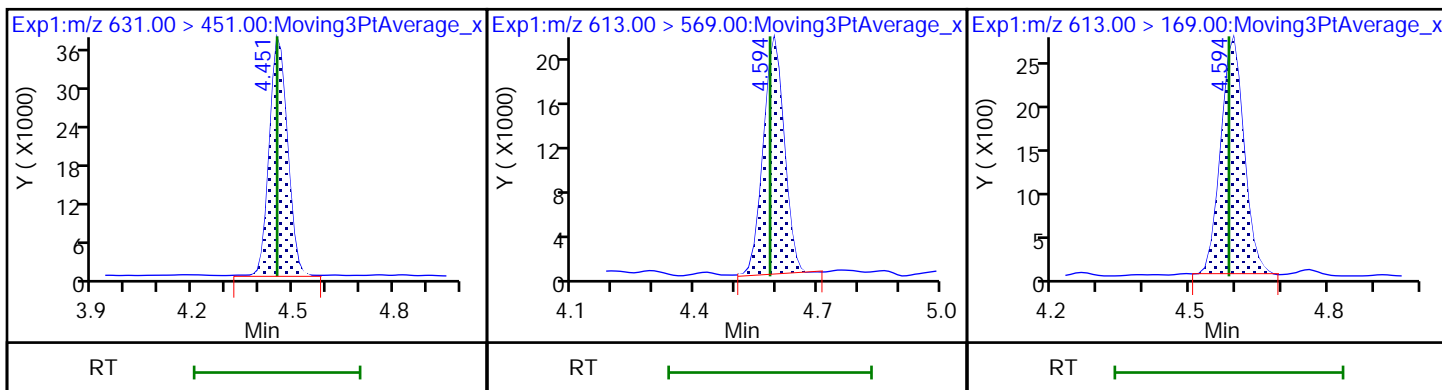
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

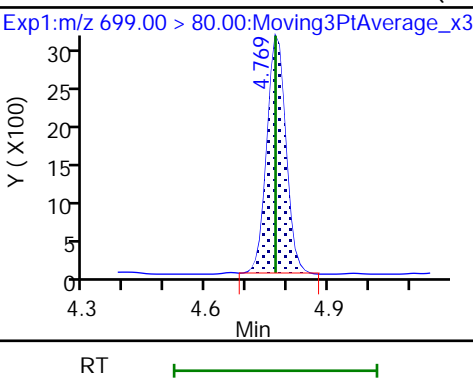
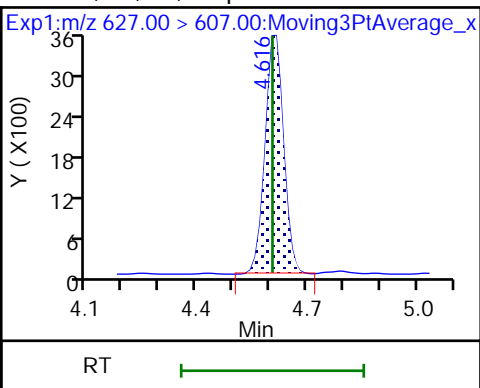
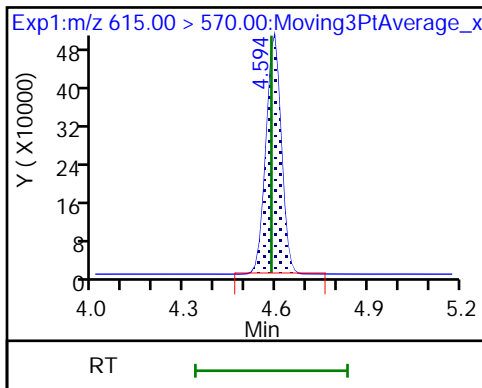
37 Perfluorododecanoic acid



D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul

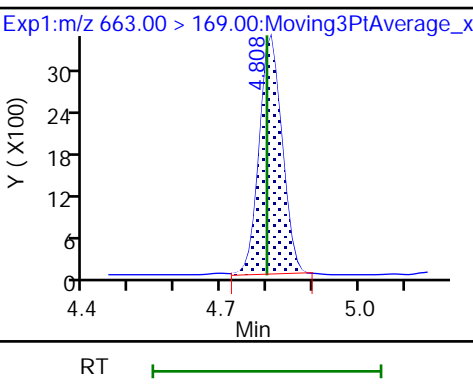
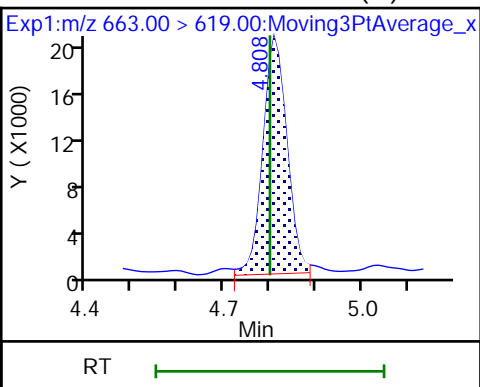
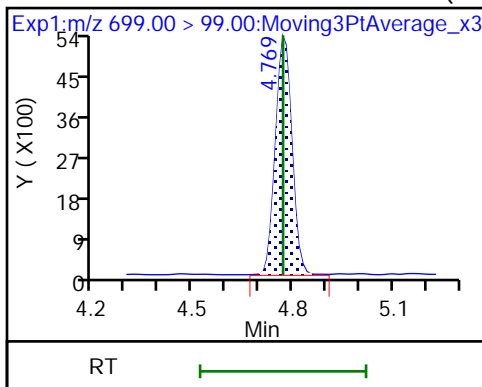
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

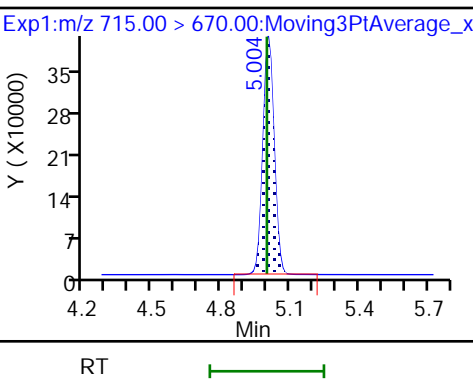
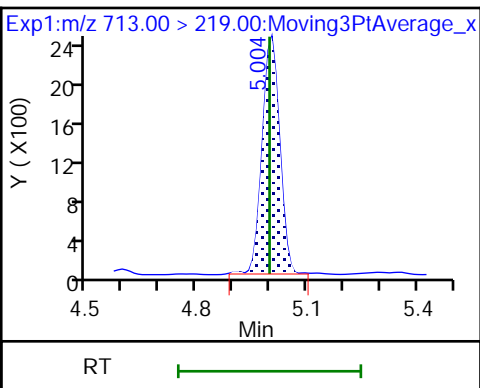
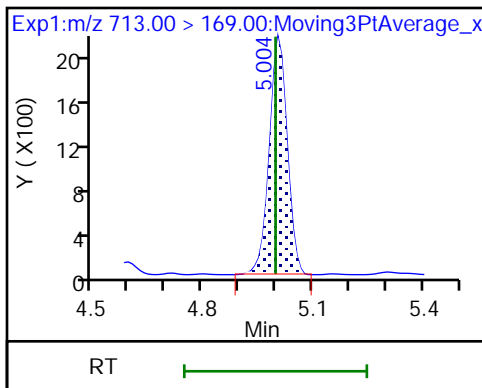
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

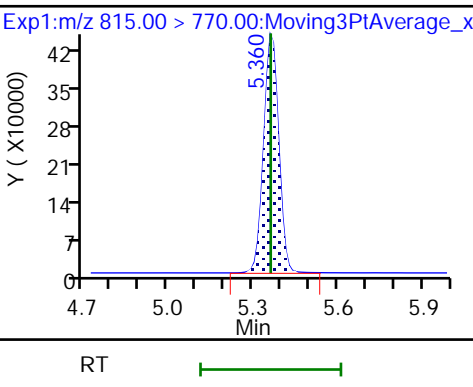
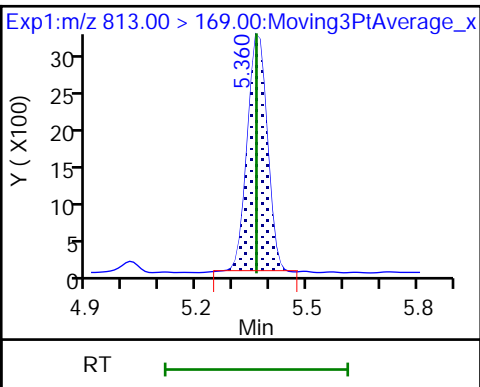
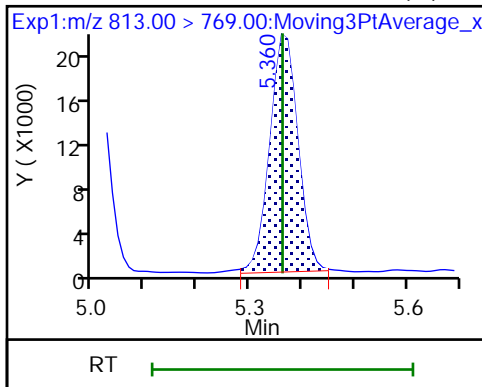
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

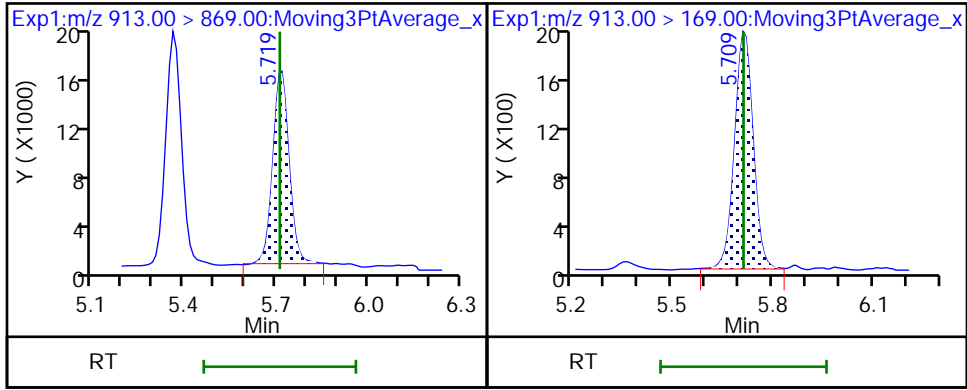
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

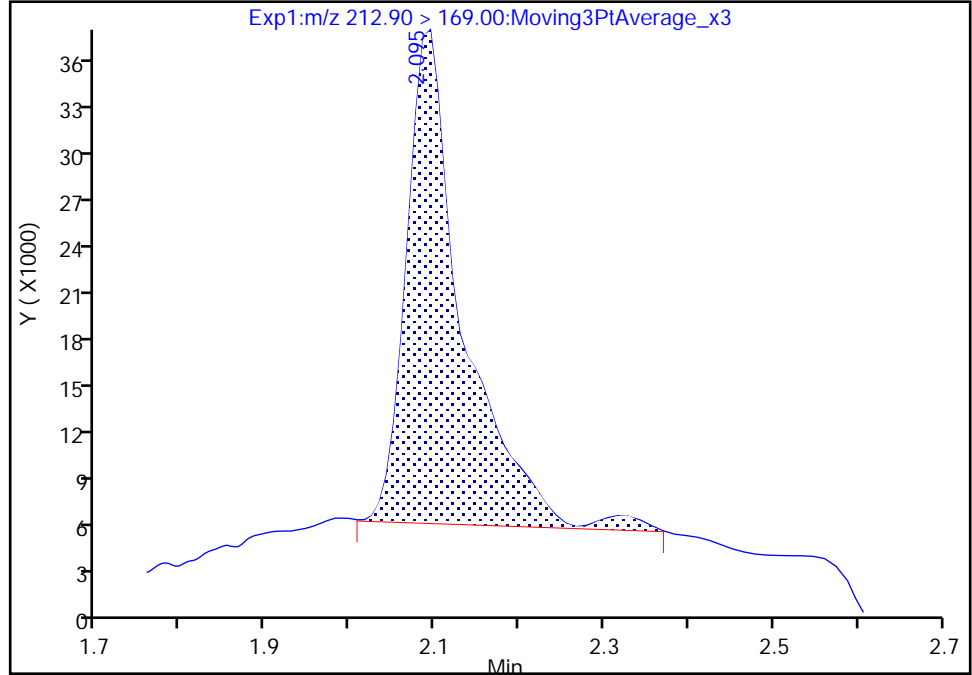
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Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

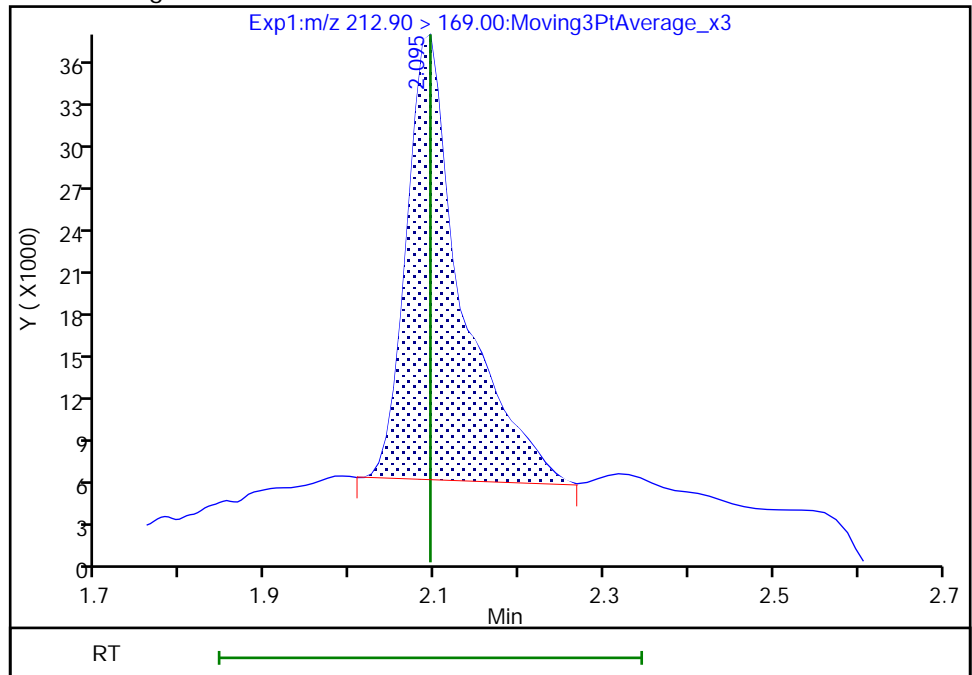
RT: 2.09
Area: 145714
Amount: 0.049247
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 142103
Amount: 0.048761
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:27:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 226 of 742

Eurofins Burlington

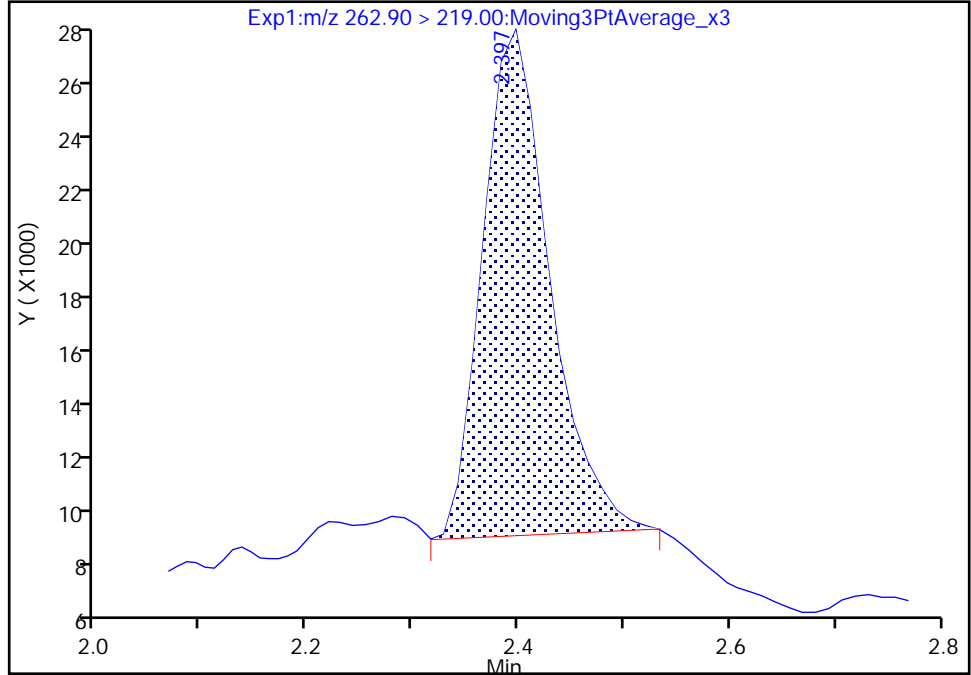
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Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

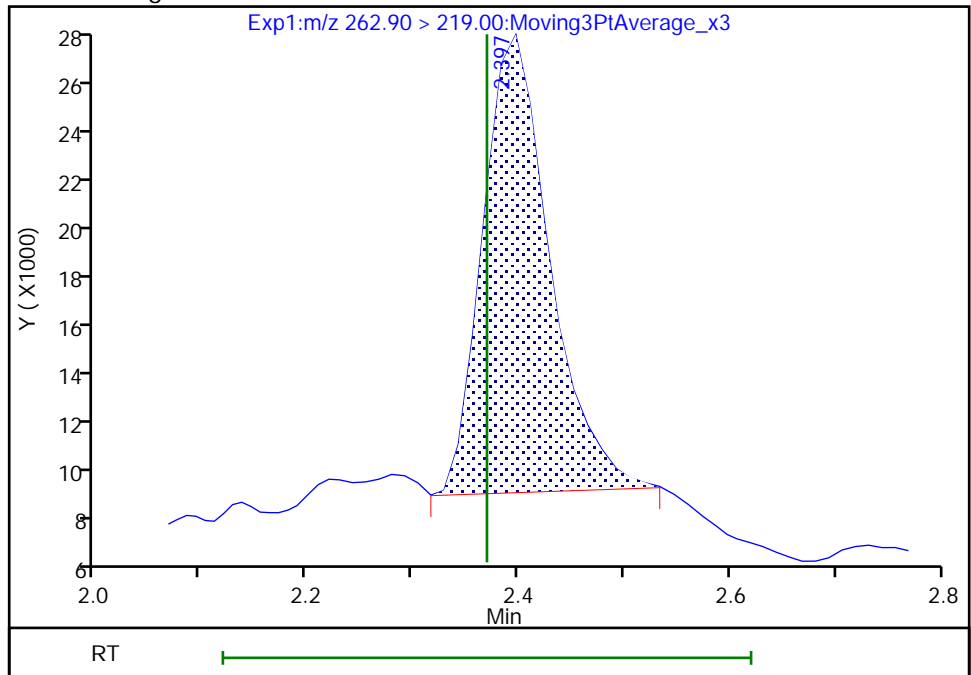
RT: 2.40
Area: 79825
Amount: 0.056114
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 79825
Amount: 0.056551
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:32:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

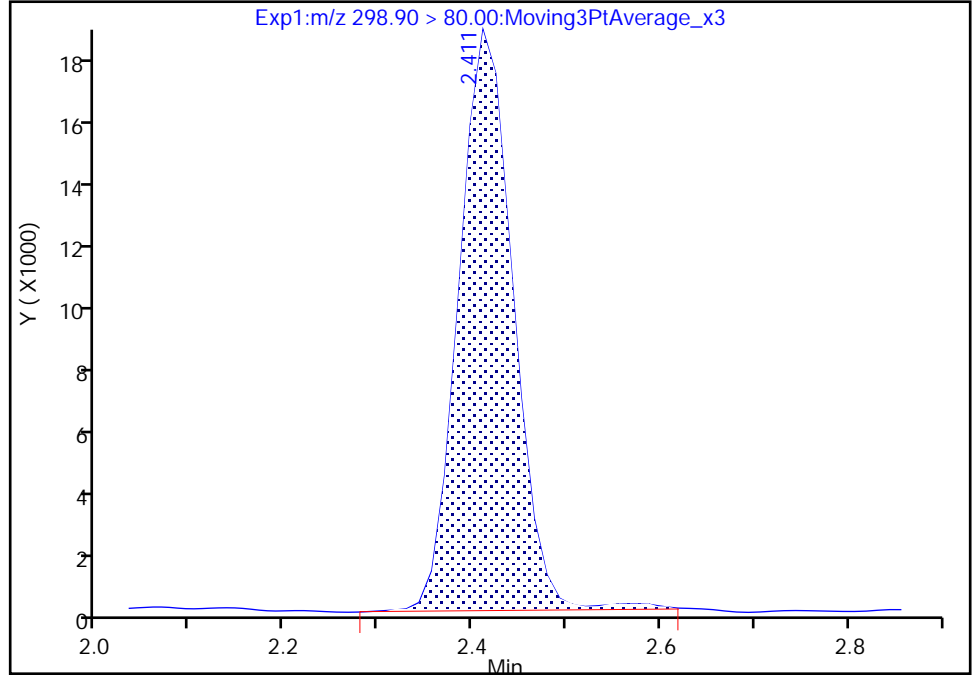
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Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

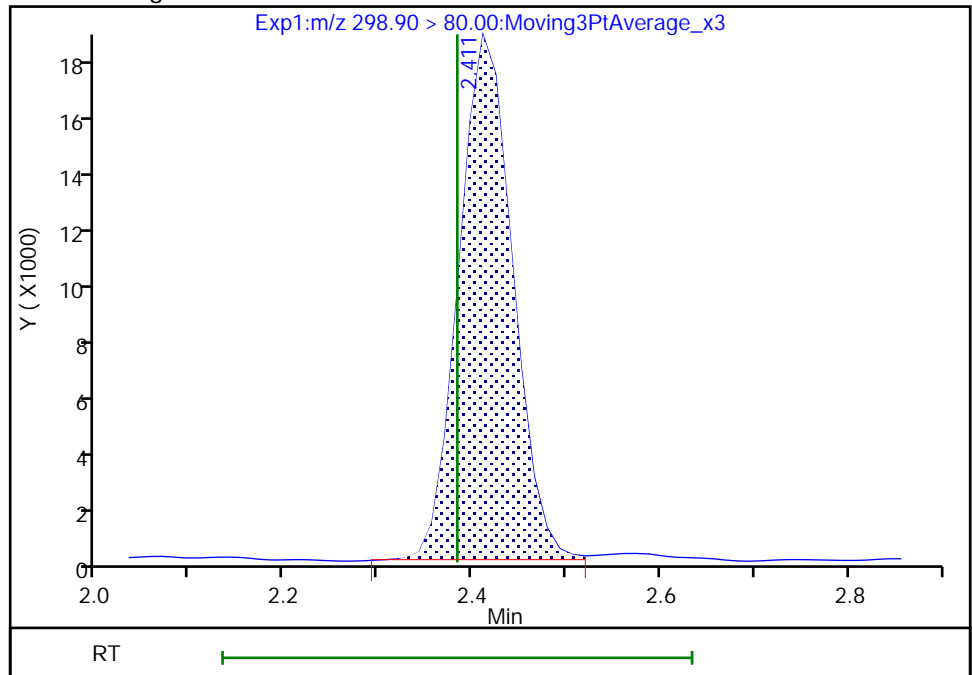
RT: 2.41
Area: 74663
Amount: 0.045263
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 74489
Amount: 0.045175
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:34:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

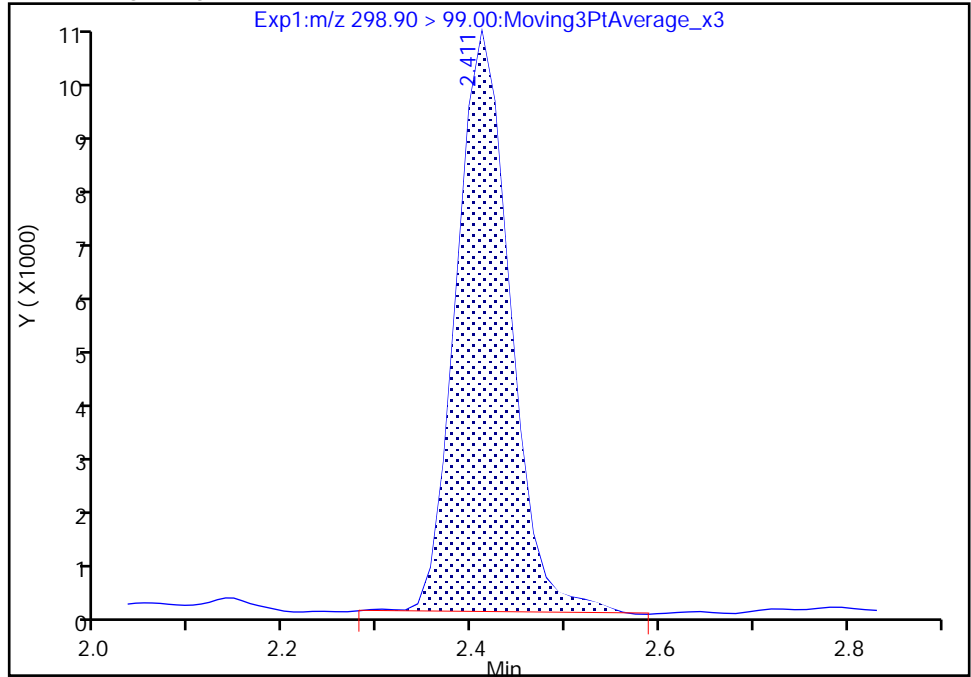
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Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

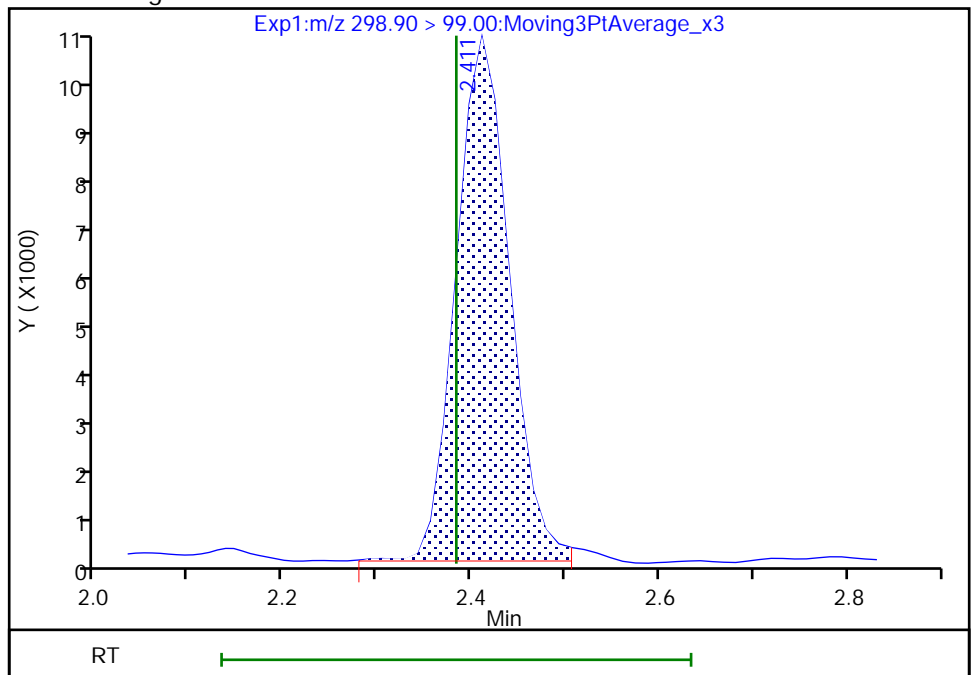
RT: 2.41
Area: 40048
Amount: 0.045263
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 39467
Amount: 0.045175
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:34:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

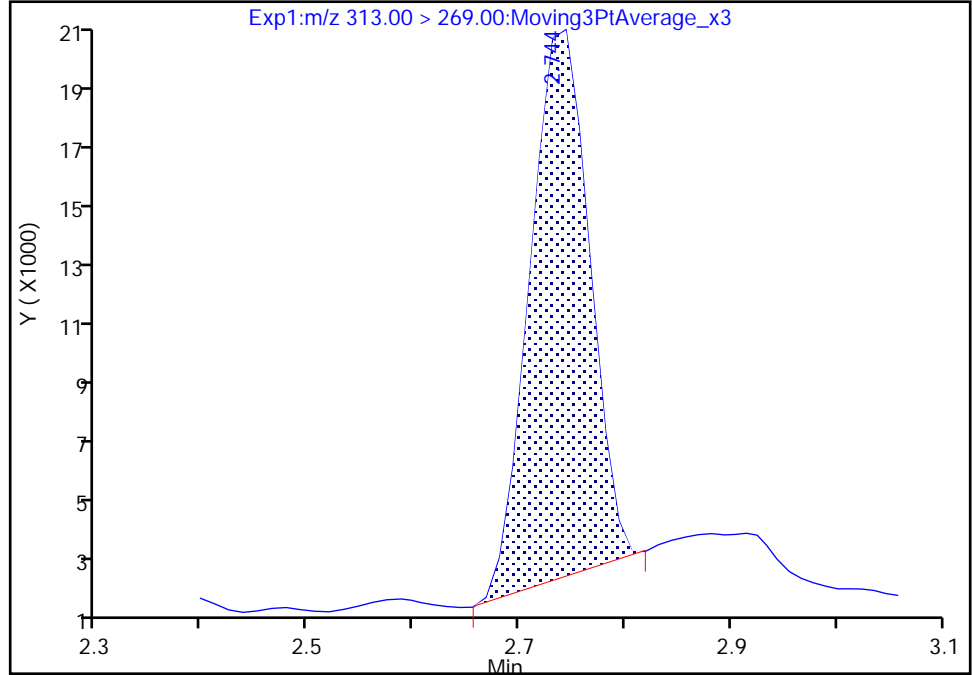
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

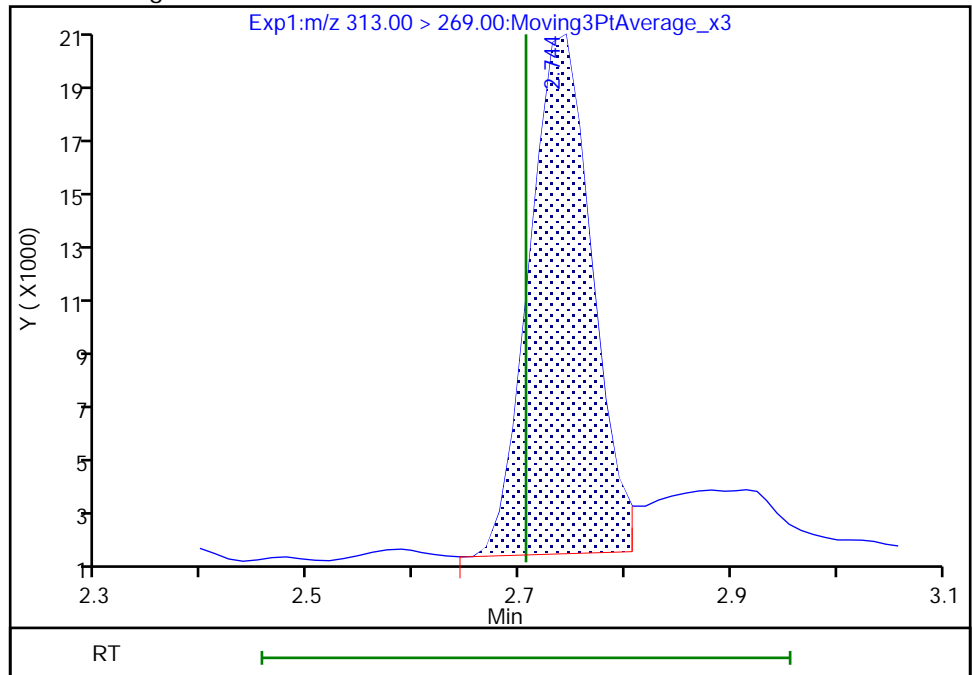
RT: 2.74
Area: 72458
Amount: 0.048221
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 79528
Amount: 0.051800
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:35:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

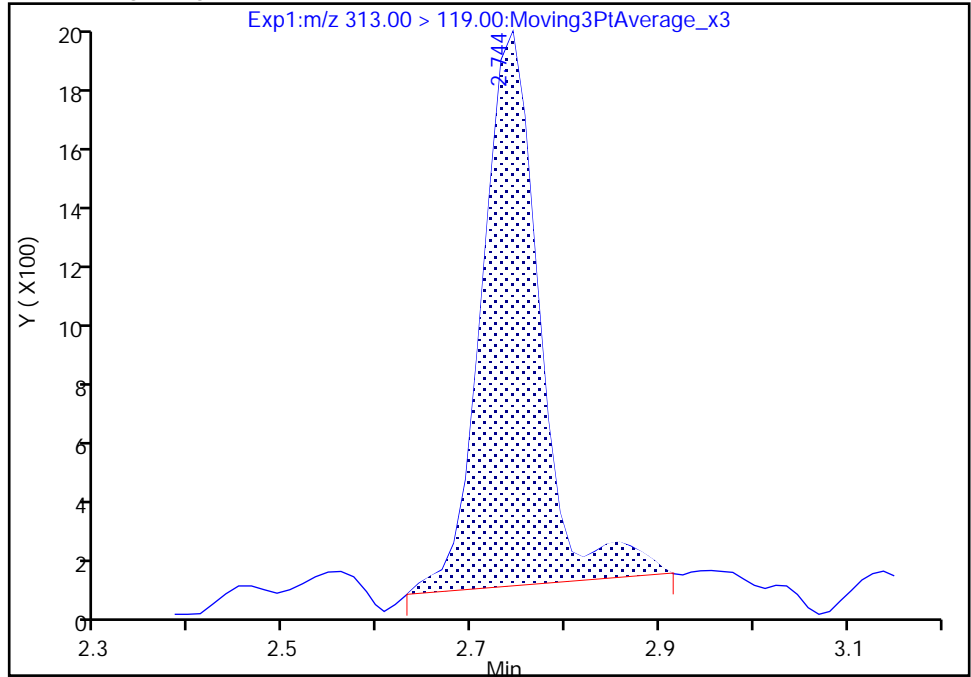
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Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

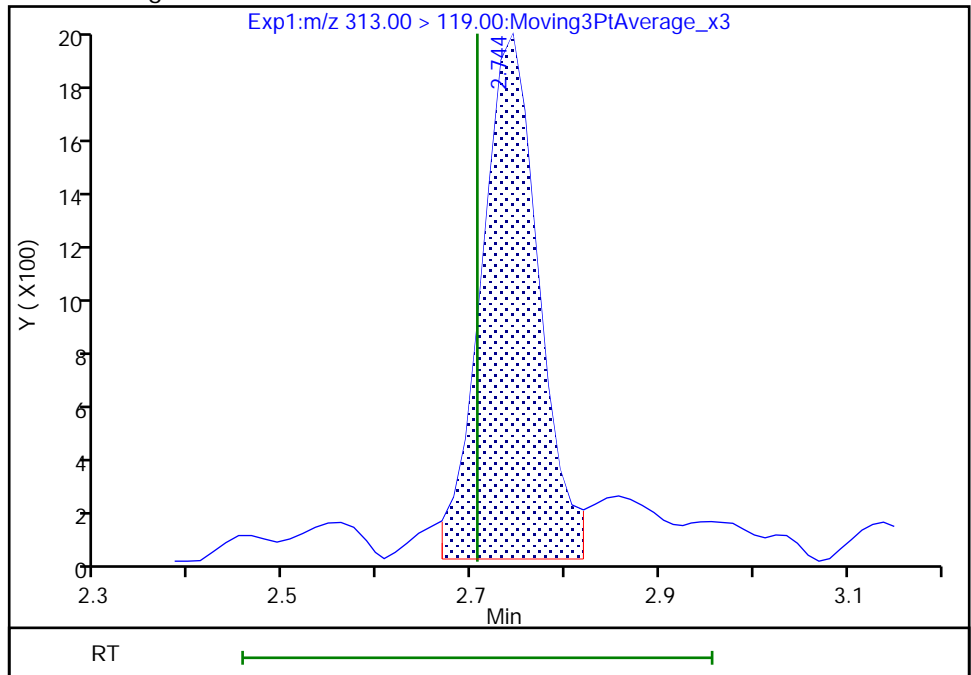
RT: 2.74
Area: 7542
Amount: 0.048221
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 7764
Amount: 0.051800
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:35:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

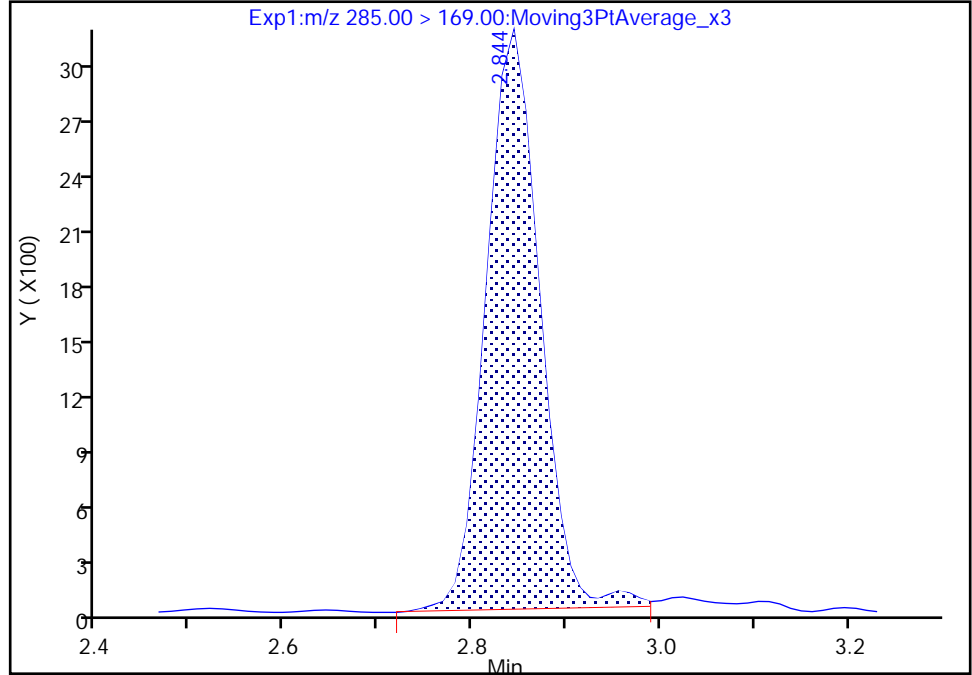
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

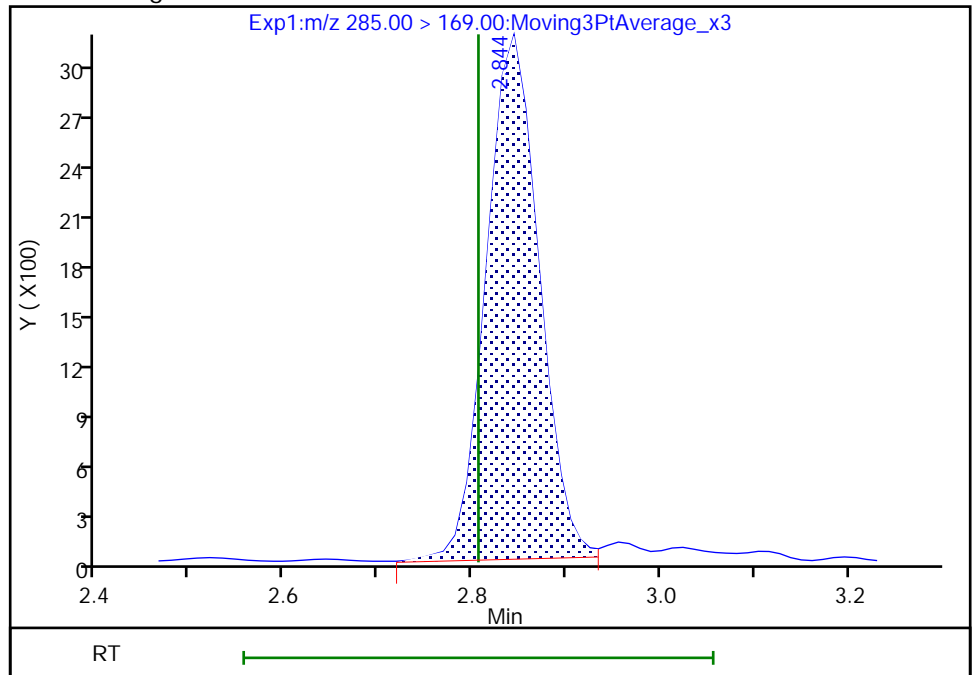
RT: 2.84
Area: 12599
Amount: 0.053498
Amount Units: ng/ml

Processing Integration Results



RT: 2.84
Area: 12408
Amount: 0.052829
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:35:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

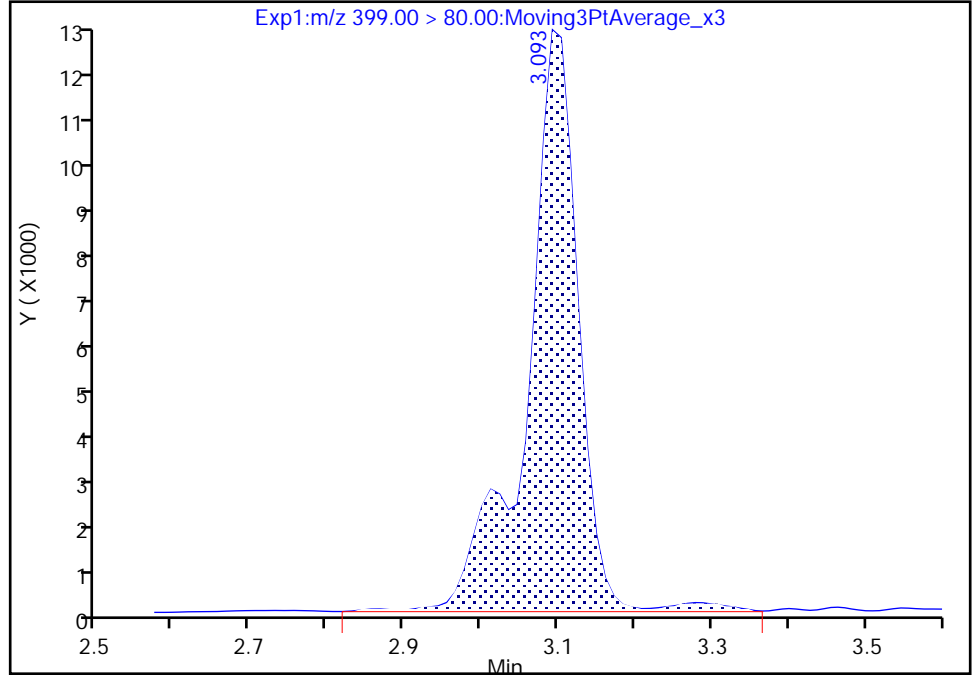
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

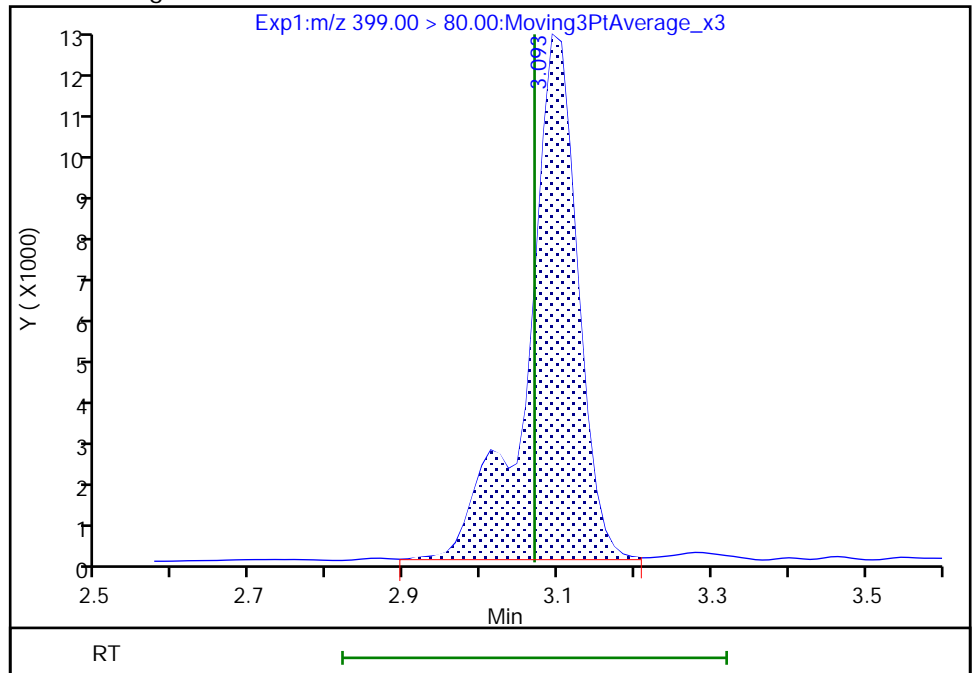
RT: 3.09
Area: 56671
Amount: 0.051477
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 55602
Amount: 0.050688
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:35:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

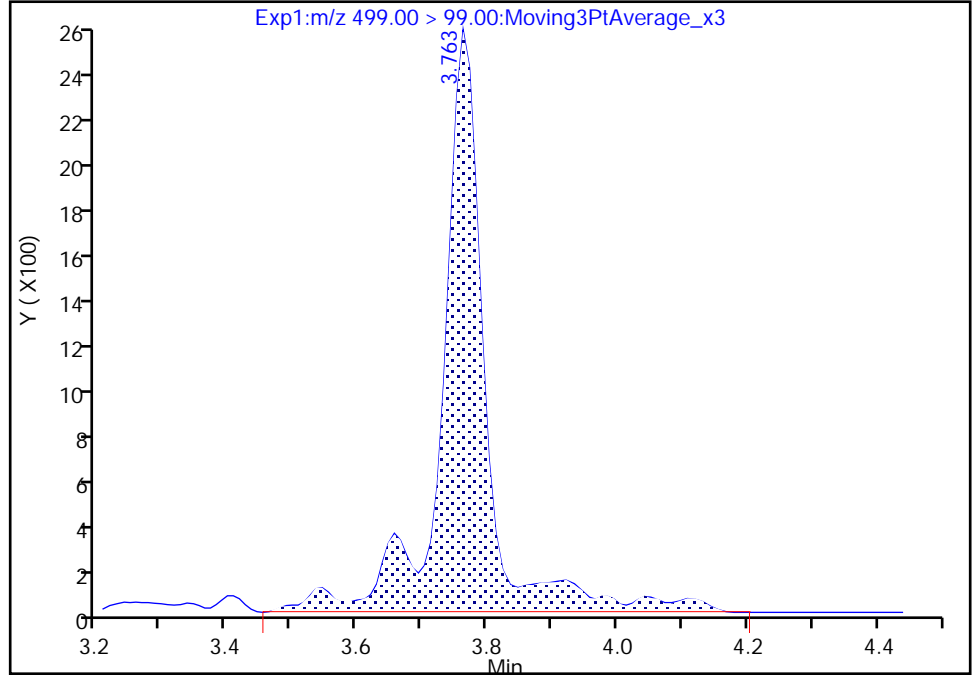
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

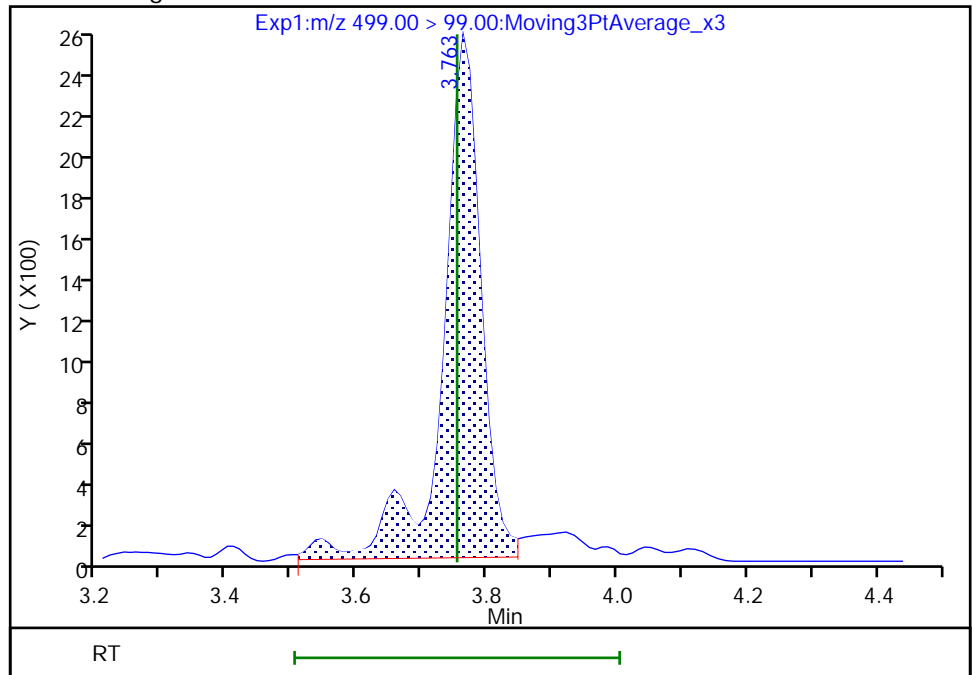
RT: 3.76
Area: 12263
Amount: 0.058426
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 10540
Amount: 0.053204
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:36:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

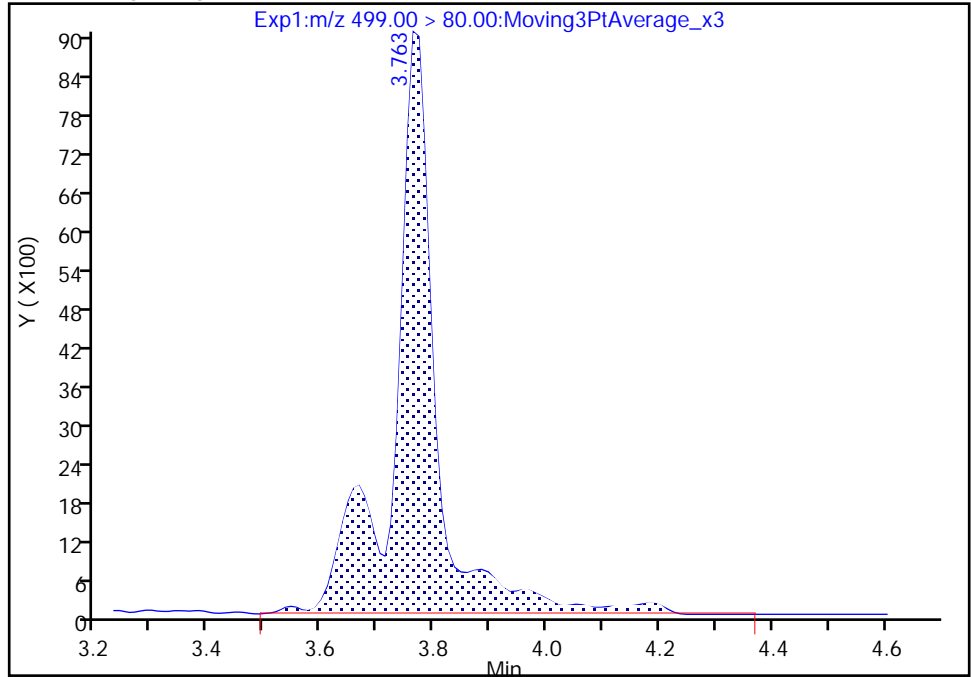
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

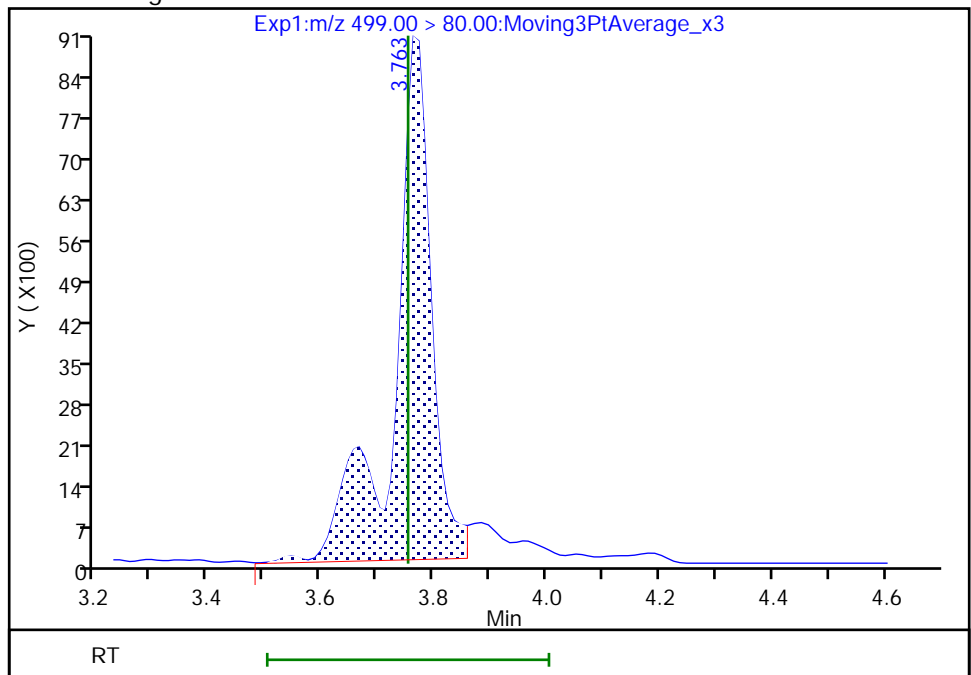
RT: 3.76
Area: 48039
Amount: 0.058426
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 41517
Amount: 0.053204
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:36:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

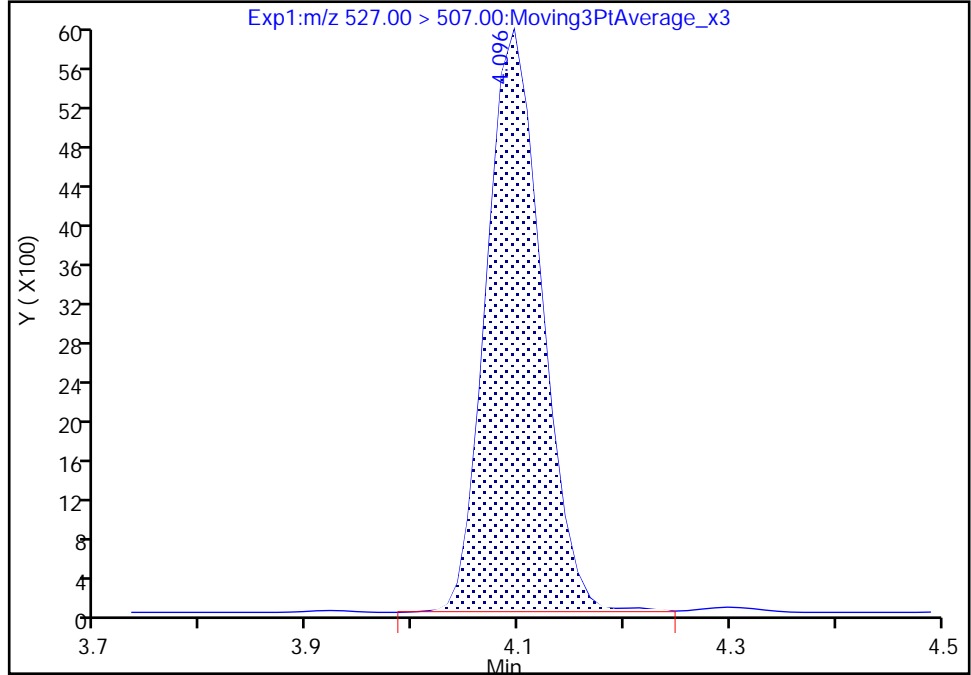
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

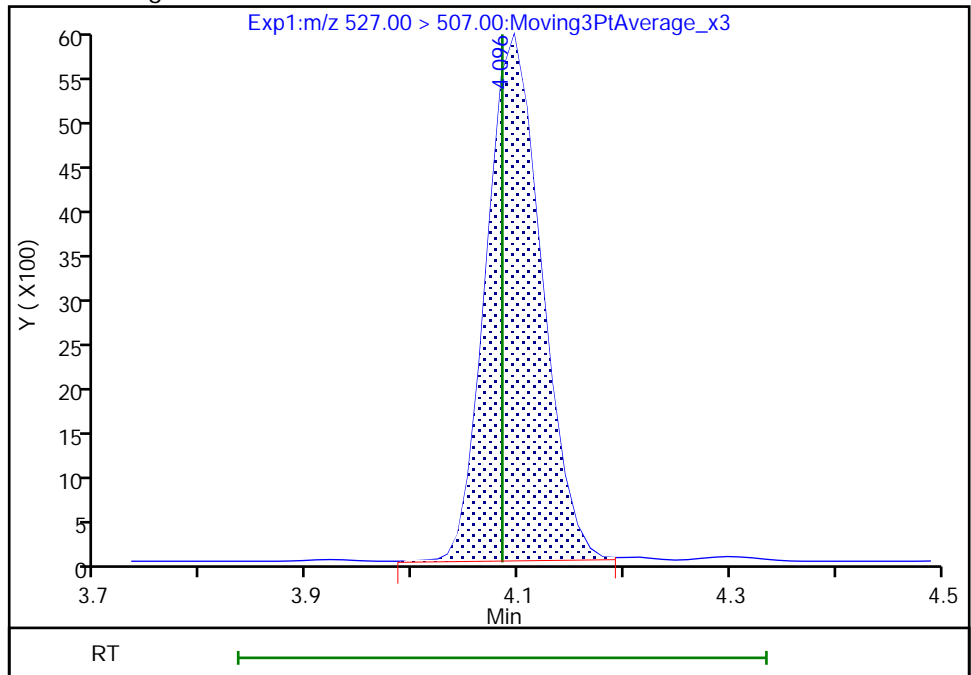
RT: 4.10
Area: 21570
Amount: 0.056301
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 21496
Amount: 0.056146
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:36:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

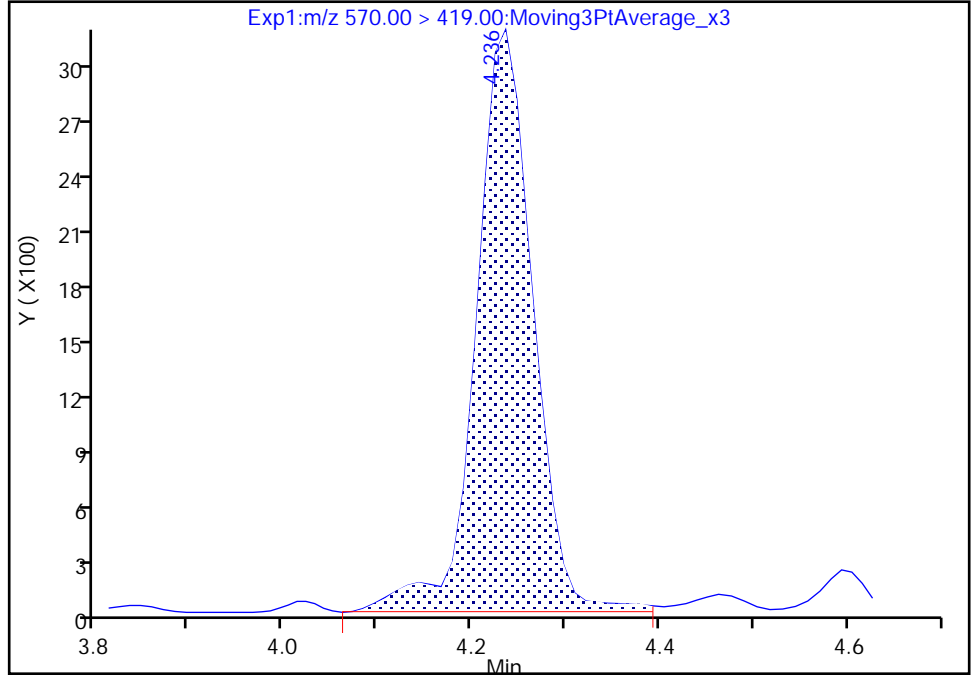
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

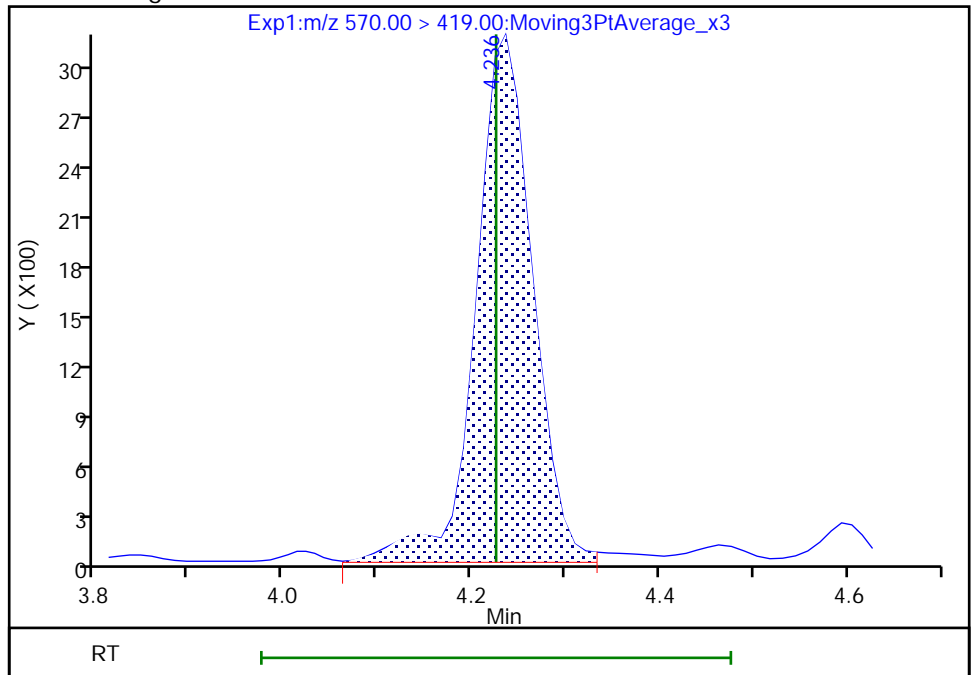
RT: 4.24
Area: 13224
Amount: 0.053606
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 13064
Amount: 0.053319
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:36:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

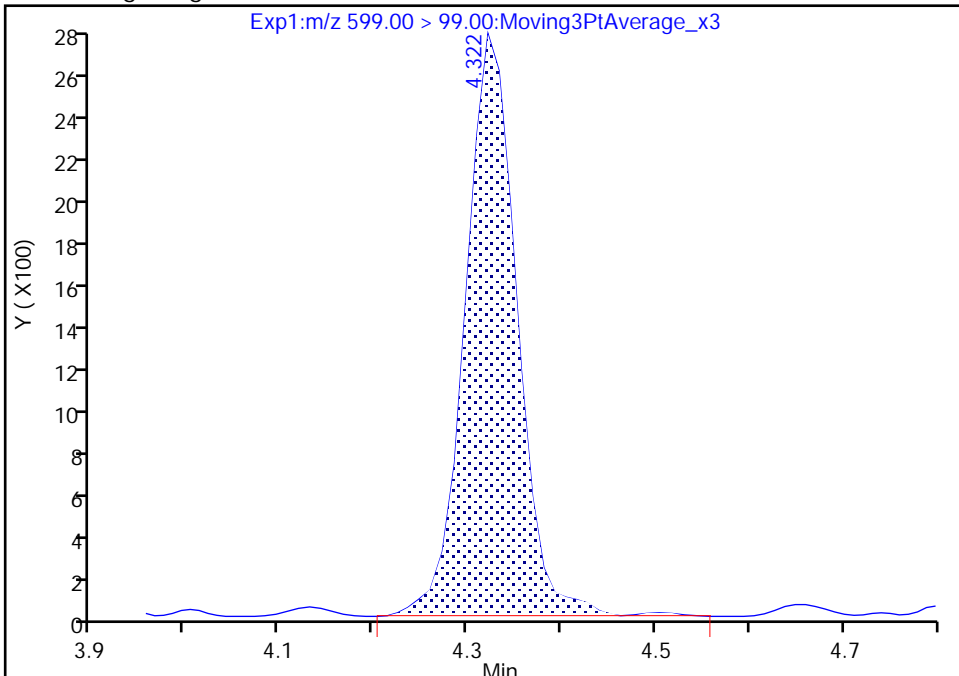
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

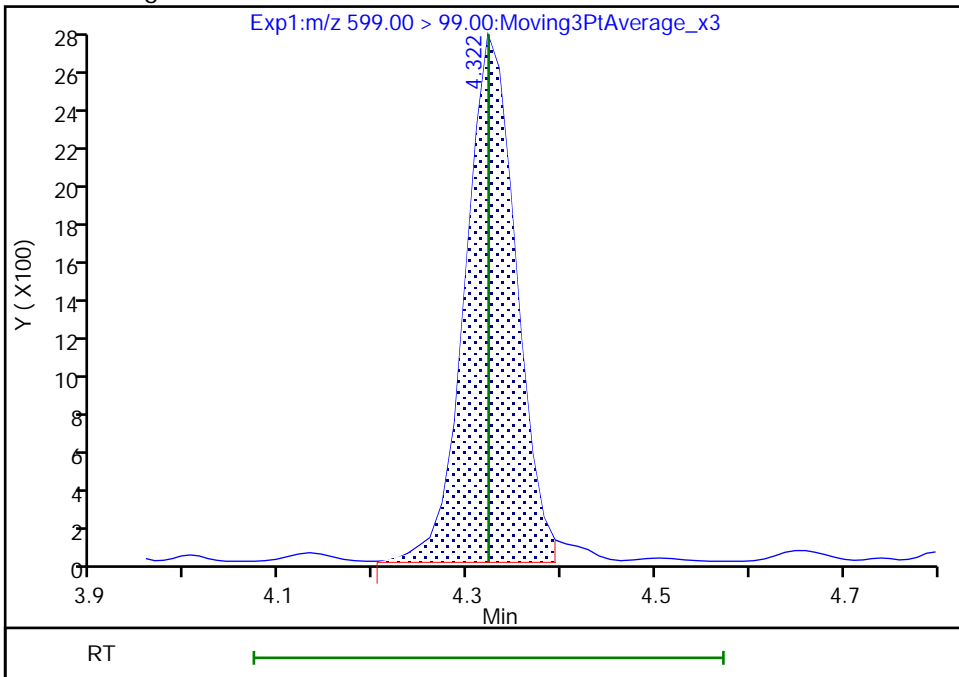
RT: 4.32
Area: 10632
Amount: 0.046907
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 10350
Amount: 0.046907
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:37:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

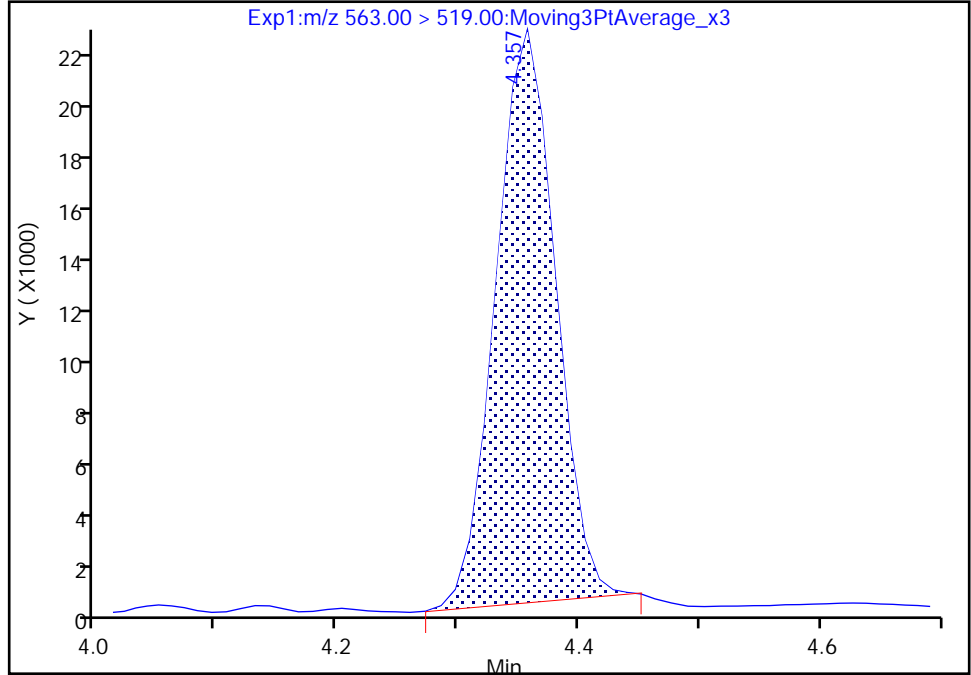
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

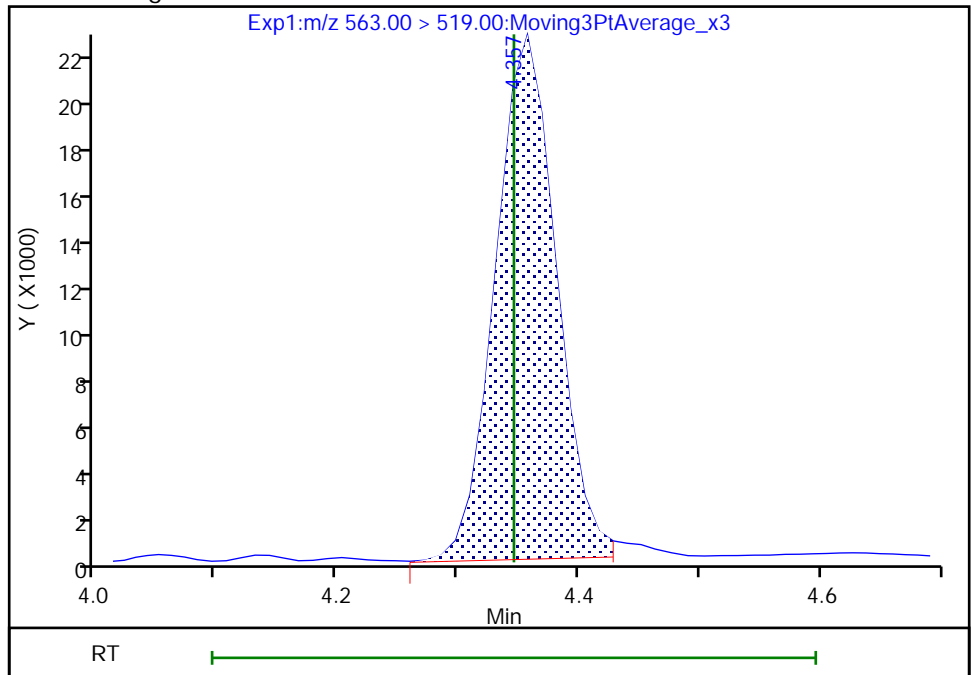
RT: 4.36
Area: 73356
Amount: 0.055770
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 75220
Amount: 0.056907
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:37:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

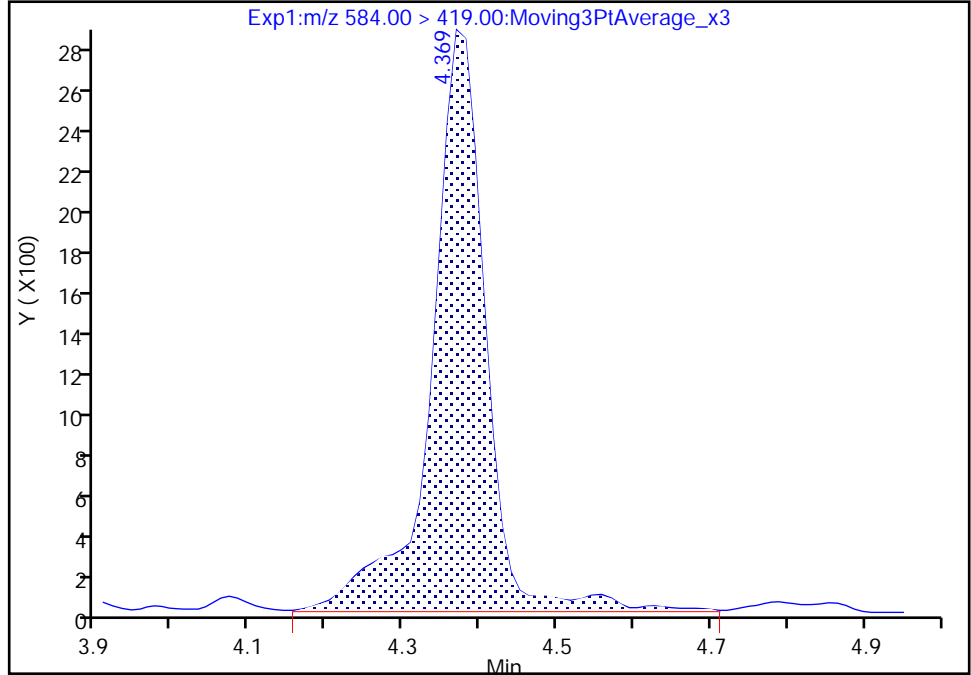
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

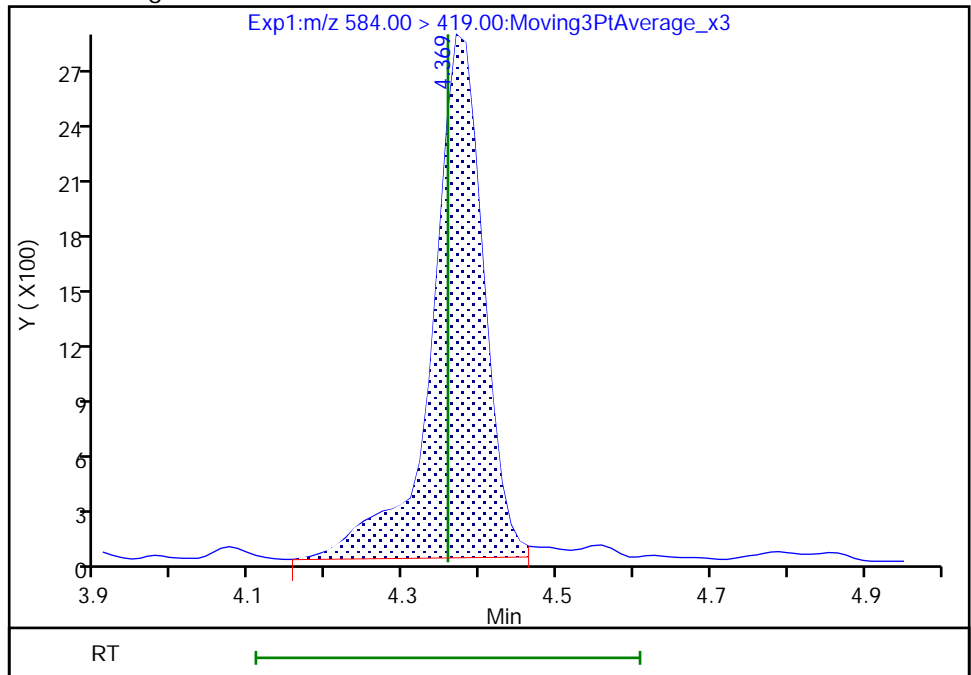
RT: 4.37
Area: 14182
Amount: 0.054349
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 13222
Amount: 0.051651
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:37:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

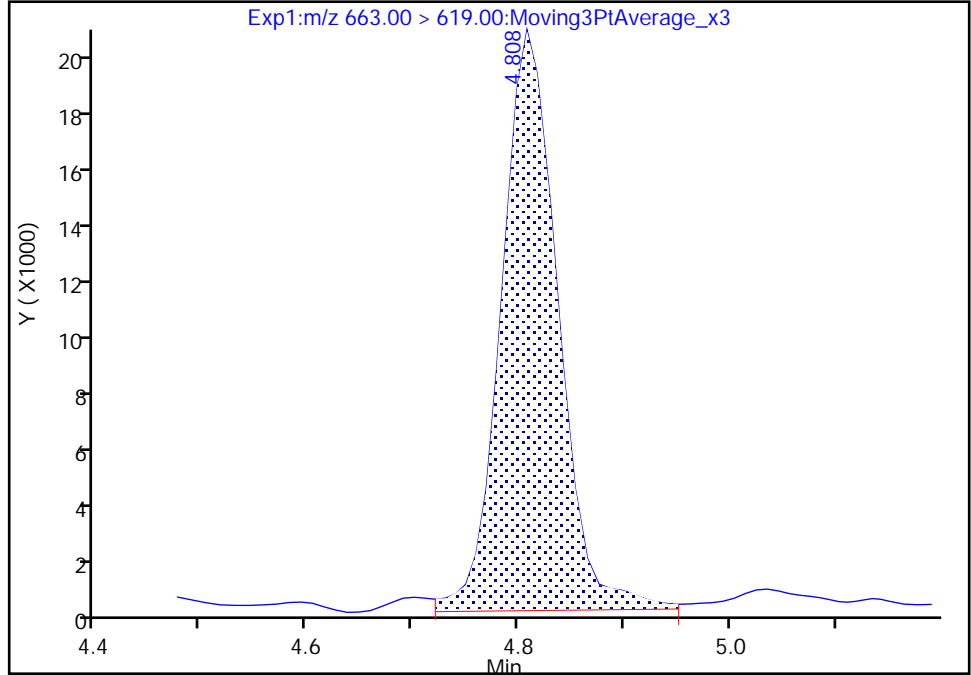
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

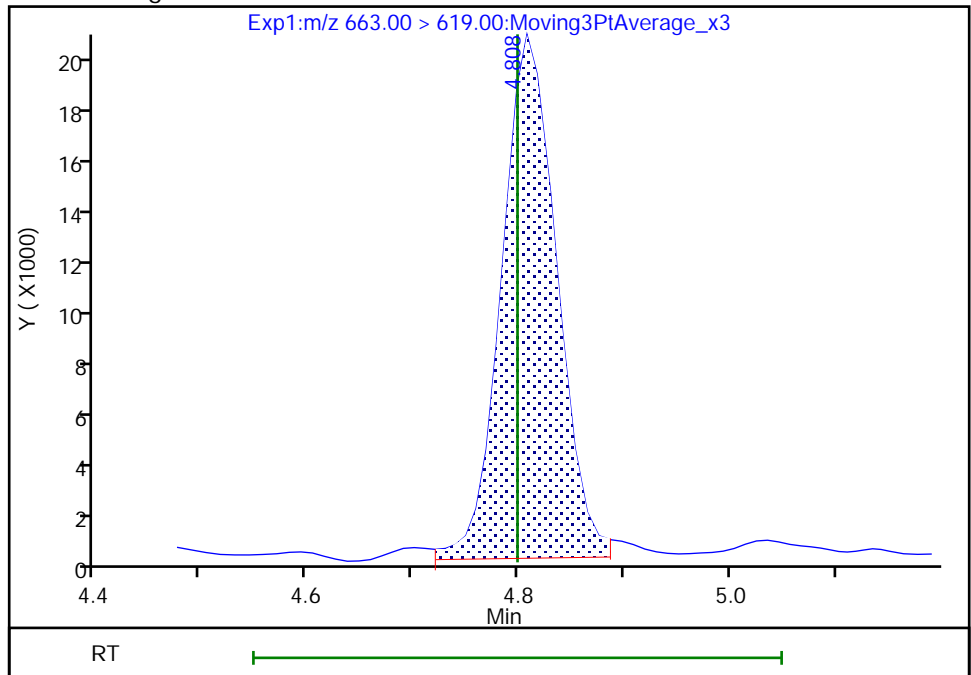
RT: 4.81
Area: 71961
Amount: 0.051076
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 70556
Amount: 0.050246
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:37:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

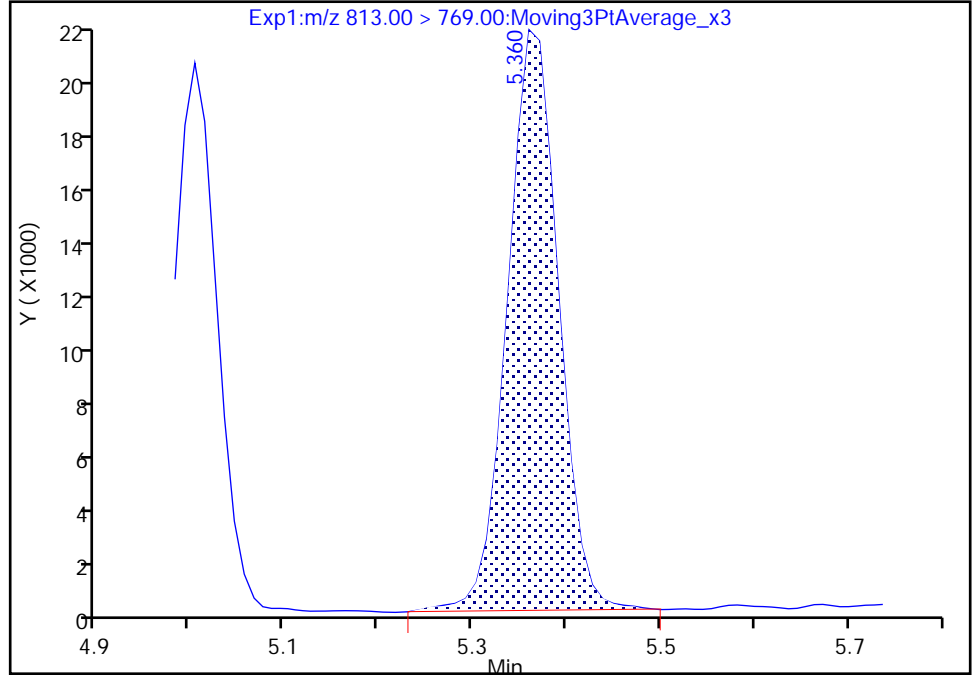
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

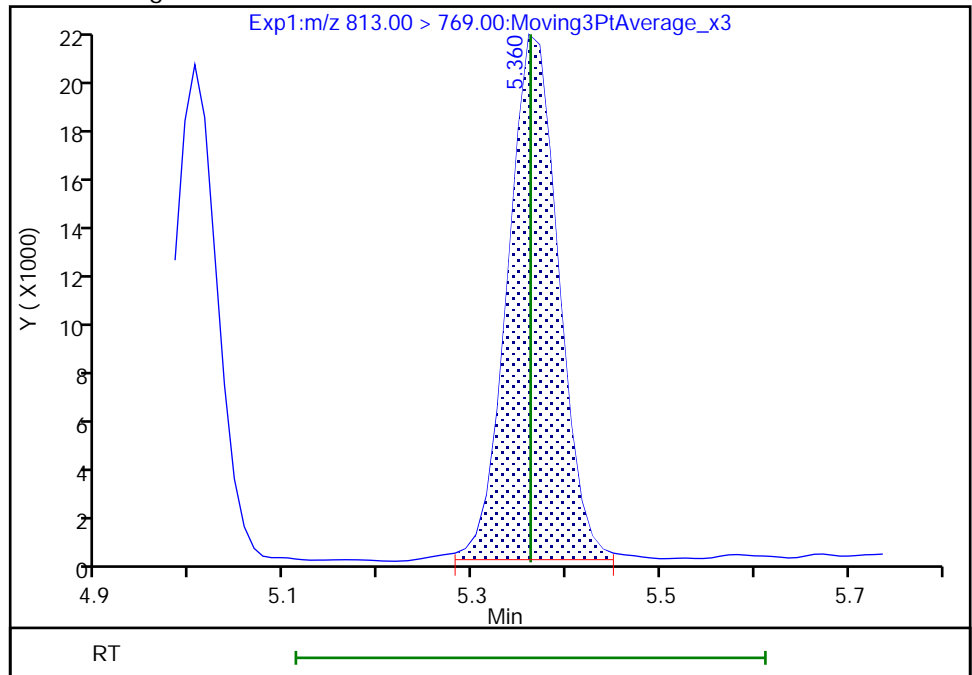
RT: 5.36
Area: 77828
Amount: 0.059807
Amount Units: ng/ml

Processing Integration Results



RT: 5.36
Area: 77078
Amount: 0.048788
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:38:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Jan-2023 17:51:16 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-006 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:18 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 12:24:27

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.603	1933662	1.22	97.9	12316	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.017	1.000	216064	0.1040		104	17.4	M
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1759059	1.38	110	6964	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.384	2.370	0.014	1.000	181764	0.1128		113	5.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1634896	1.17	100	134151	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.411	2.384	0.027	1.006	155428	0.1032	Target=1.99	117	313	
298.90 > 99.00	2.411	2.384	0.027	1.006	78157		1.99(0.99-2.98)	117	64.5	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.693	2.669	0.024	1.000	31295	0.0950	102	374	
D 60 M2-4:2 FTS	329.00 > 81.00	2.693	2.669	0.024	0.782	129921	1.15	98.2	185	M
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.793	1676752	1.26	101	8653	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.731	2.706	0.025	1.000	153319	0.1085	Target=13.02	108	24.6	M
313.00 > 119.00	2.731	2.706	0.025	1.000	11952		12.83(6.51-19.53)	108	21.5	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.883	130444	0.0936	Target=2.73	99.7	267
349.00 > 99.00	2.731	2.706	0.025	0.883	47974		2.72(1.37-4.10)	99.7	133	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.831	2.806	0.025	1.000	23137	0.1093		109	352

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.831	2.806	0.025	0.822	264830	1.15		92.2	1694	
D 11 18O2 PFHxS										
403.00 > 84.00	3.092	3.069	0.023	0.898	1332857	1.31		110	6636	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.092	3.069	0.023	1.000	119784	0.0968	Target=3.13	106	433	M
399.00 > 99.00	3.092	3.069	0.023	1.000	39396		3.04(1.57-4.70)	106	81.9	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.092	3.069	0.023	0.898	1854236	1.40		112	8406	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.092	3.069	0.023	1.000	167208	0.1058	Target=3.92	106	34.5	M
363.00 > 169.00	3.092	3.069	0.023	1.000	43642		3.83(1.96-5.88)	106	64.8	M
77 DONA										
377.00 > 251.00	3.127	3.104	0.023	0.833	380912	0.0984	Target=3.04	104	355	
377.00 > 85.00	3.127	3.104	0.023	0.833	123269		3.09(1.52-4.56)	104	364	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.435	3.417	0.018	0.997	191525	1.19		100	879	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.435	3.417	0.018	1.000	35721	0.0967		102	42.9	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.435	3.417	0.018	0.915	90625	0.0923	Target=4.66	96.9	436	
449.00 > 99.00	3.426	3.417	0.009	0.913	17210		5.27(2.33-6.99)	96.9	113	
D 14 13C4 PFOA										
417.00 > 372.00	3.444	3.426	0.018	1.000	1796317	1.28		102	5966	
* 62 13C2 PFOA										
415.00 > 370.00	3.444	3.426	0.018		1717604	1.25			6636	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.444	3.426	0.018	1.000	183000	0.1170	Target=3.01	117	14.5	M
413.00 > 169.00	3.444	3.426	0.018	1.000	52709		3.47(1.50-4.51)	117	81.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.090	806762	1.30		109	4226	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	80631	0.0983	Target=4.13	106	97.9	M
499.00 > 99.00	3.754	3.754	0.0	1.000	20236		3.98(2.07-6.20)	106	89.5	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.774	0.0	1.000	151976	0.1082	Target=8.58	108	26.3	
463.00 > 169.00	3.774	3.774	0.0	1.000	18613		8.17(4.29-12.87)	108	165	
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.774	0.0	1.096	1717986	1.25		100	8089	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	199750	0.1020		109	852	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	65489	0.0961	Target=2.32	100	709	
549.00 > 99.00	4.043	4.043	0.0	1.077	27599		2.37(1.16-3.48)	100	232	
D 23 13C2 PFDA										
515.00 > 470.00	4.074	4.074	0.0	1.183	1832892	1.30		104	8852	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.074	4.074	0.0	1.000	166612	0.1063	Target=10.61	106	53.3	
513.00 > 169.00	4.085	4.074	0.011	1.003	15244		10.93(5.30-15.91)	106	94.9	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.085	4.085	0.0	1.186	260139	1.29		108	1524	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.085	4.085	0.0	1.000	39610	0.1005		105	536	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	125528	0.1087		109	342	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	1435323	1.26		100	3740	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.227	345587	1.25		100.0	2462	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.226	4.226	0.0	1.000	27592	0.1107		111	147	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	50826	0.1001	Target=2.46	104	558	
599.00 > 99.00	4.322	4.322	0.0	1.151	18641		2.73(1.23-3.69)	104	261	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1584296	1.30		104	4370	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	145234	0.1050	Target=11.25	105	44.5	
563.00 > 169.00	4.346	4.346	0.0	1.000	12652		11.48(5.62-16.87)	105	273	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.358	4.358	0.0	1.000	24452	0.1047		105	160	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.265	314232	1.18		94.6	628	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	262279	0.0866		91.9	887	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.584	4.584	0.0	1.000	133951	0.1058	Target=8.15	106	17.1	
613.00 > 169.00	4.584	4.584	0.0	1.000	18038		7.43(4.08-12.23)	106	345	
D 36 13C2 PFDaA										
615.00 > 570.00	4.584	4.584	0.0	1.331	1554552	1.28		102	4840	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.595	4.606	-0.011	1.125	22709	0.0911		94.5	536	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.268	21013	0.1019	Target=0.53	105	811	
699.00 > 99.00	4.760	4.770	-0.010	1.268	39867		0.53(0.26-0.79)	105	1137	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.799	4.799	0.0	1.047	133190	0.1053	Target=6.29	105	17.8	
663.00 > 169.00	4.799	4.799	0.0	1.047	20400		6.53(3.14-9.43)	105	309	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	14302	0.0980	Target=0.93	98.0	305	
713.00 > 219.00	4.987	4.998	-0.011	0.998	16542		0.86(0.46-1.39)	98.0	325	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.451	1461569	1.40		112	4402	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.362	-0.012	1.000	143274	0.1050	Target=6.52	105	20.4	
813.00 > 169.00	5.350	5.362	-0.012	1.000	24518		5.84(3.26-9.77)	105	403	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.362	-0.012	1.553	1624889	1.27		101	4750	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.702	5.711	-0.009	1.066	113666	0.1081	Target=7.39	108	21.4	M
913.00 > 169.00	5.702	5.711	-0.009	1.066	14983		7.59(3.69-11.08)	108	278	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d

Injection Date: 11-Jan-2023 17:51:16

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

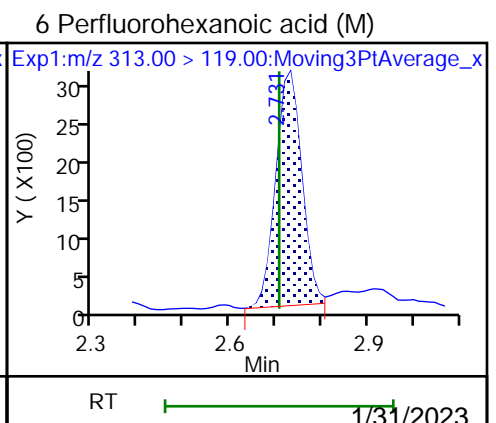
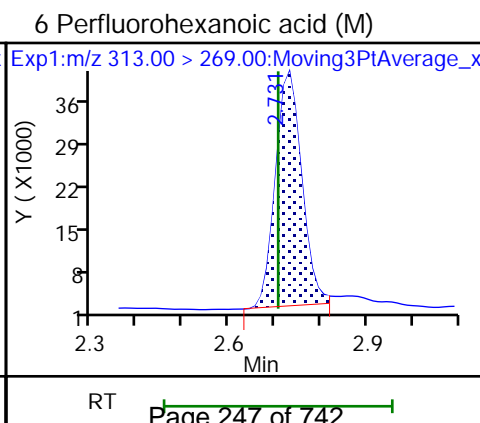
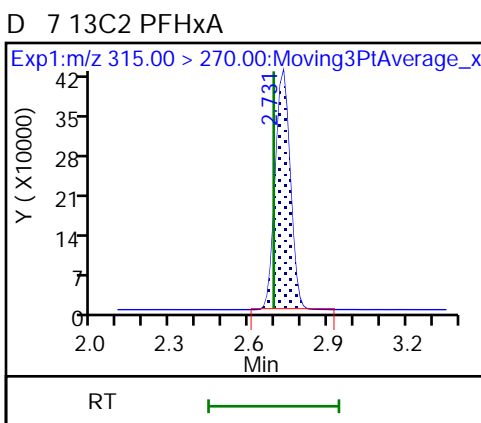
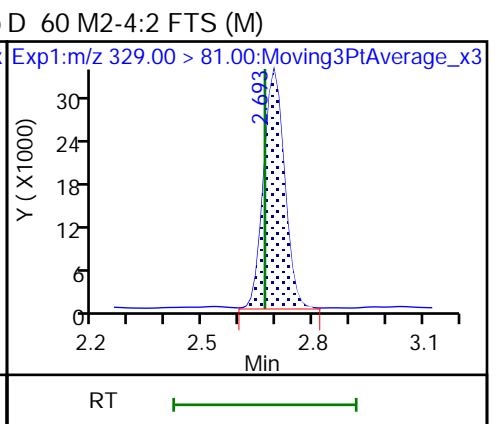
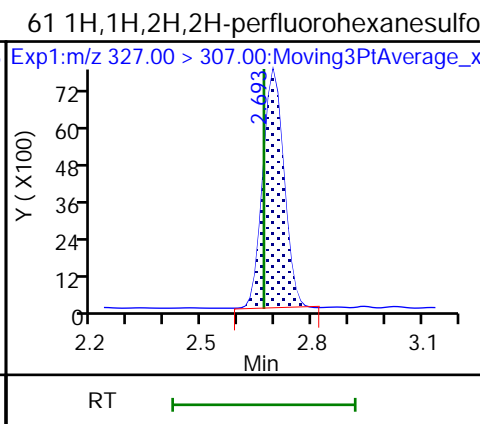
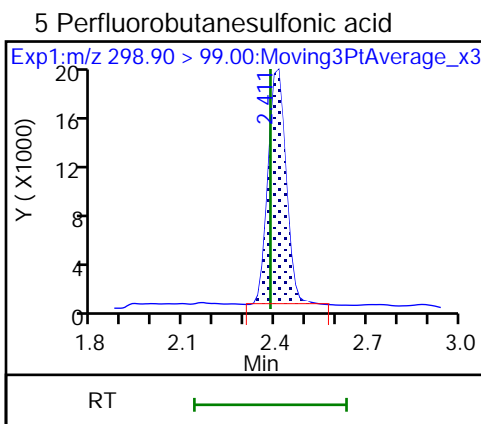
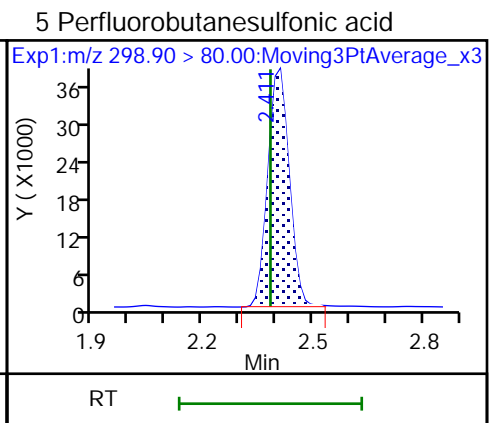
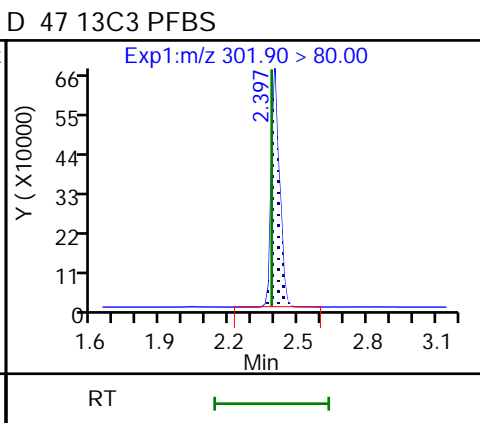
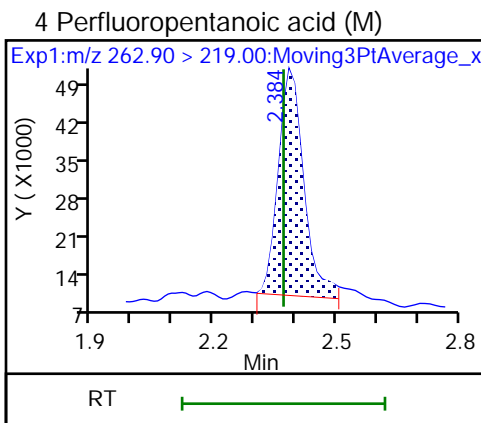
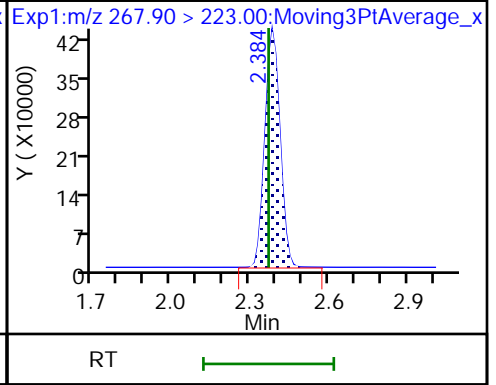
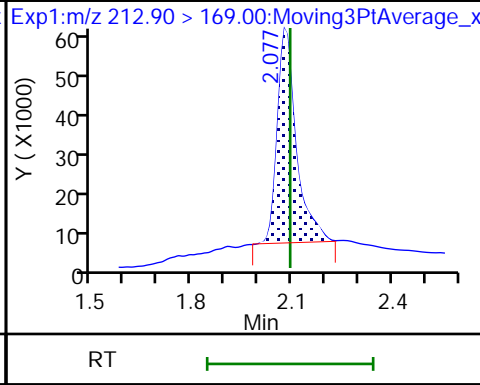
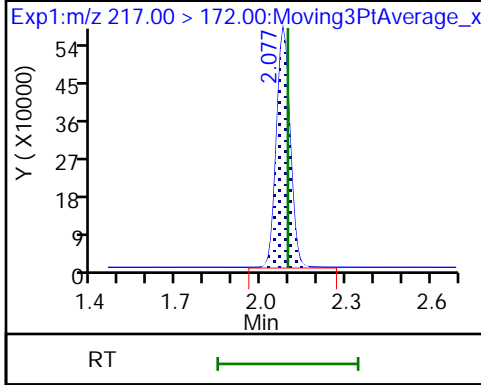
Method: PFC_LC812

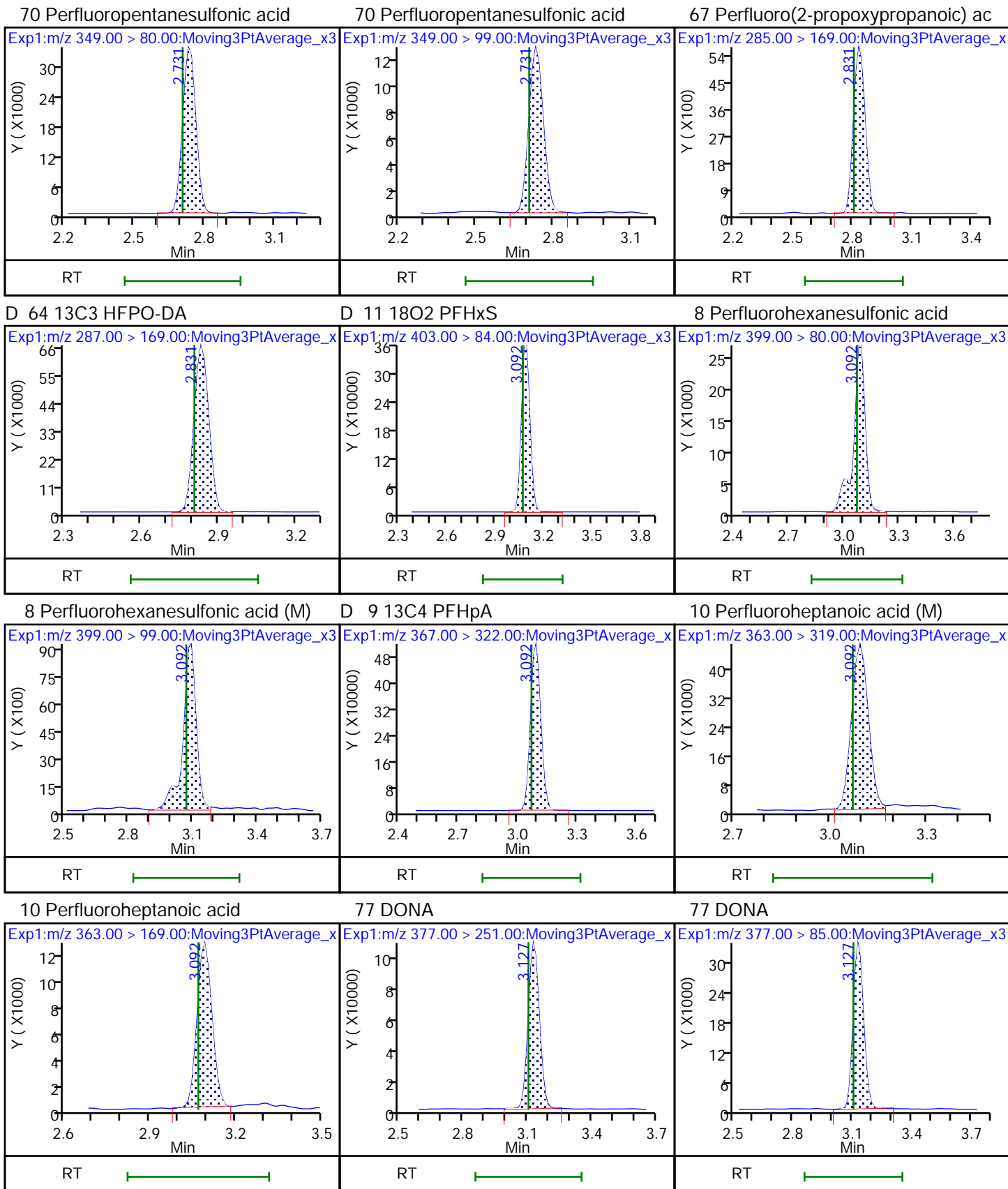
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

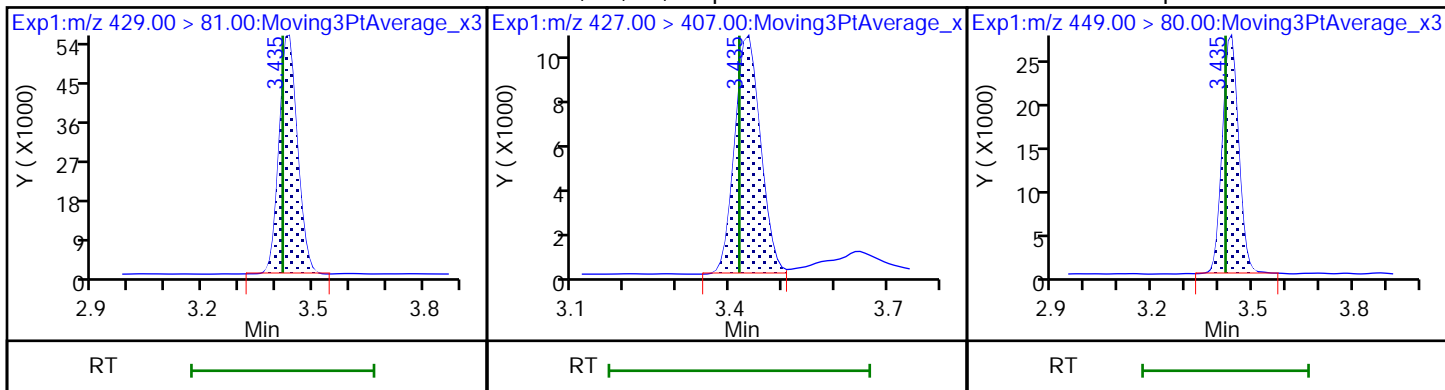




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

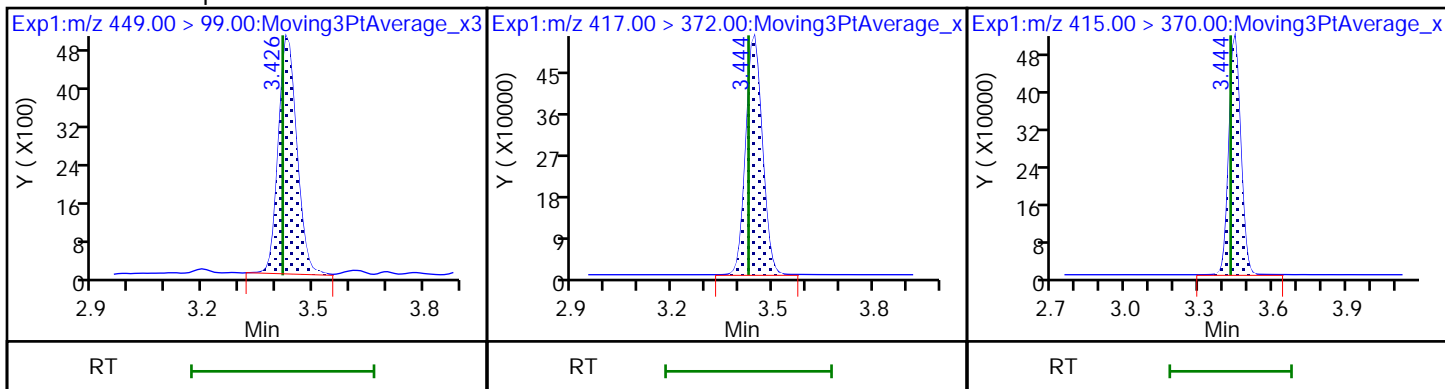
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

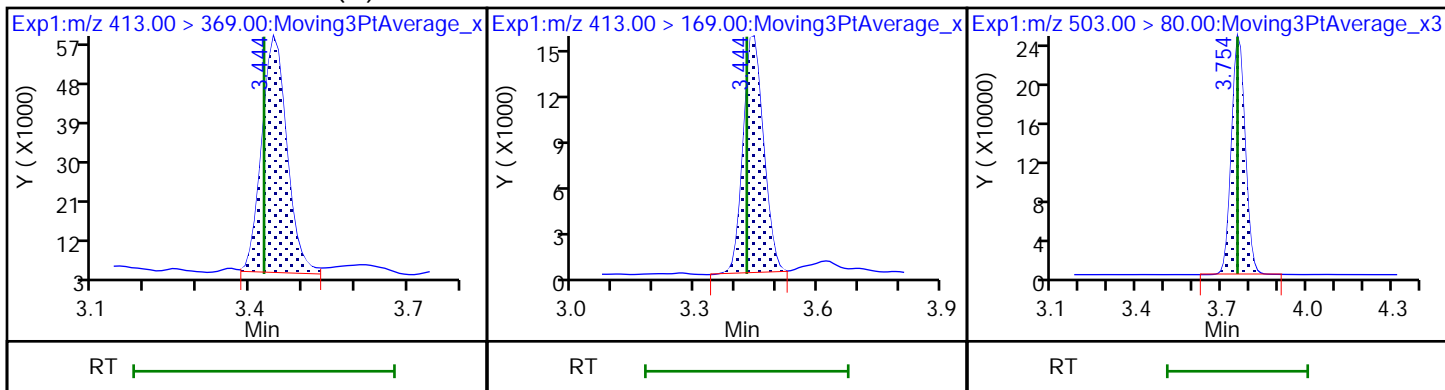
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

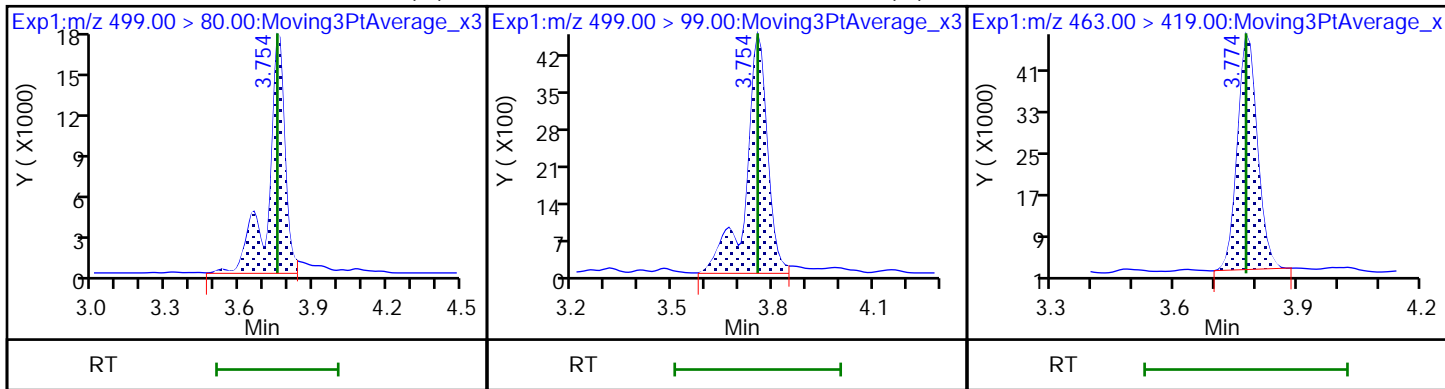
D 18 13C4 PFOS

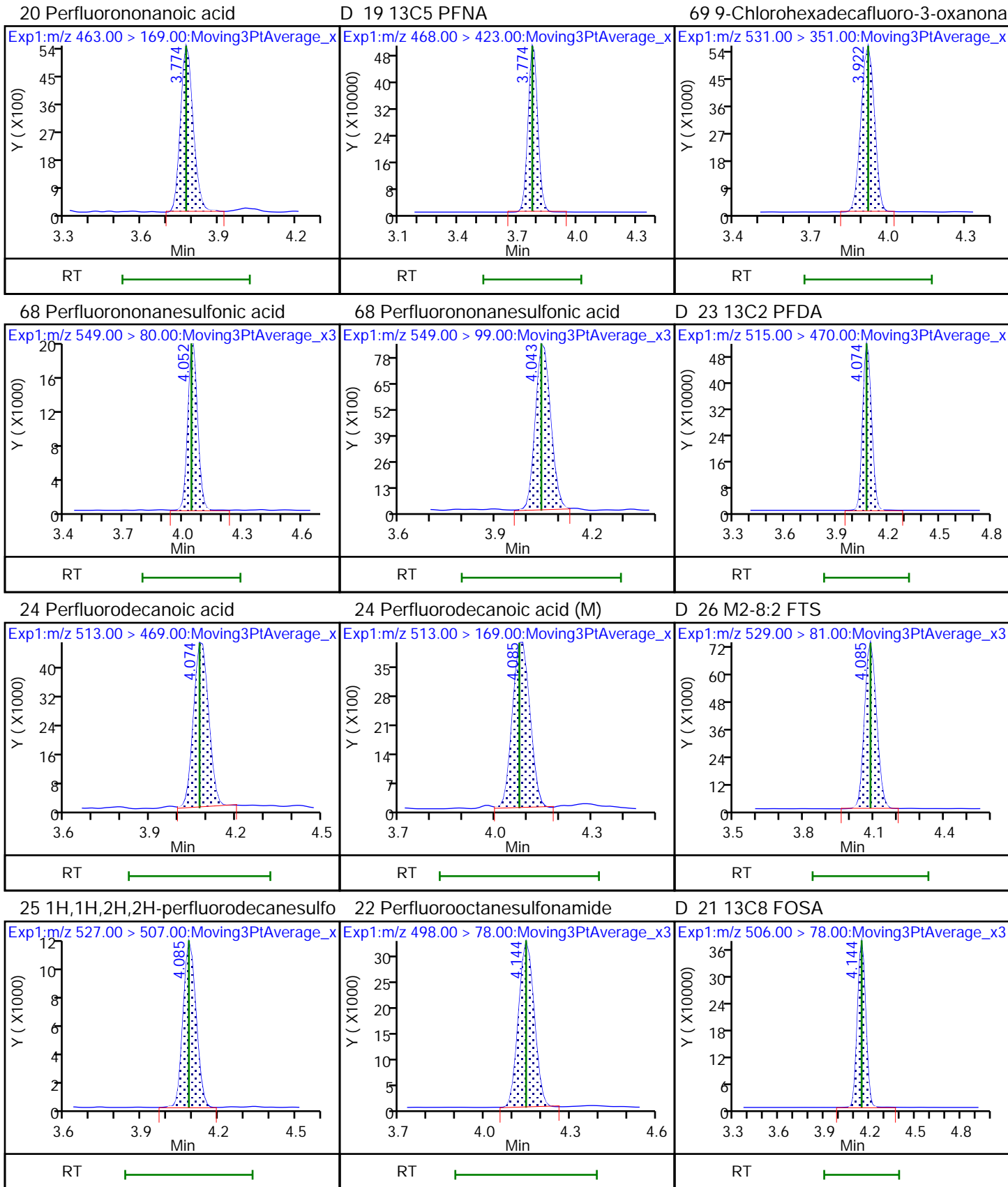


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

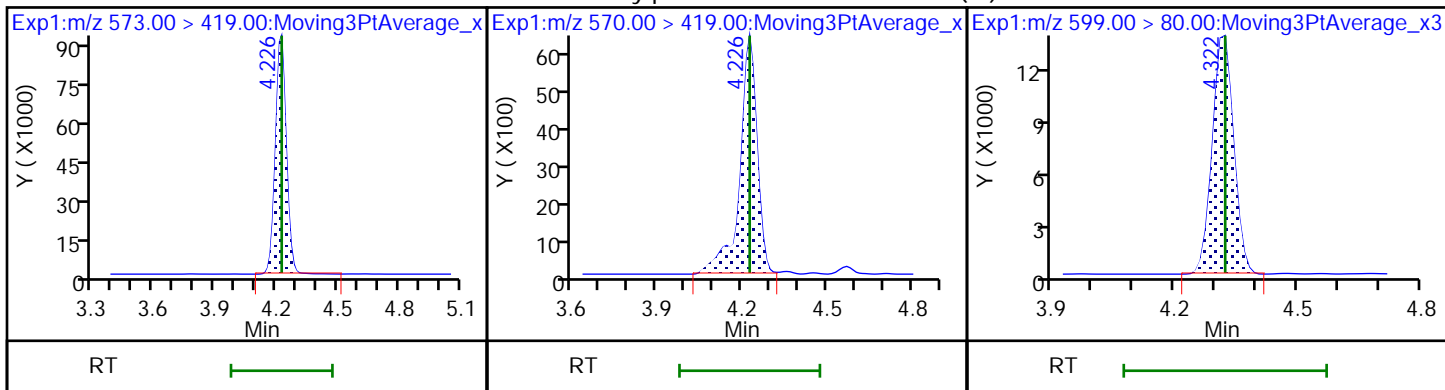
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

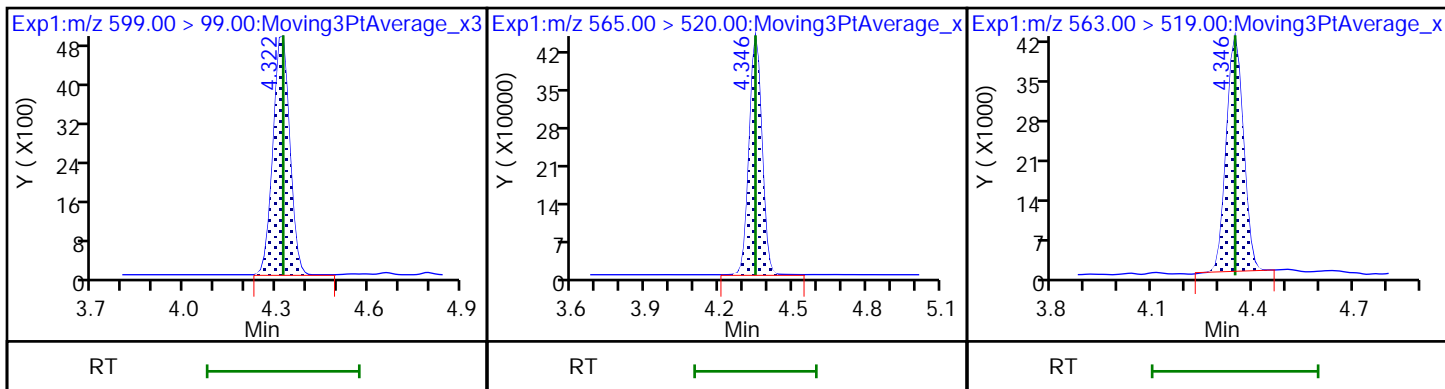
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

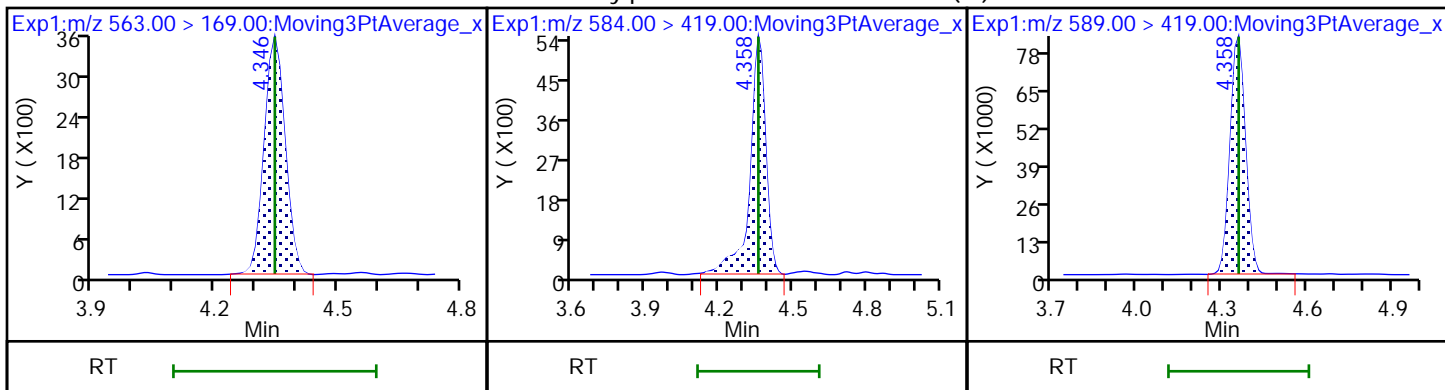
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

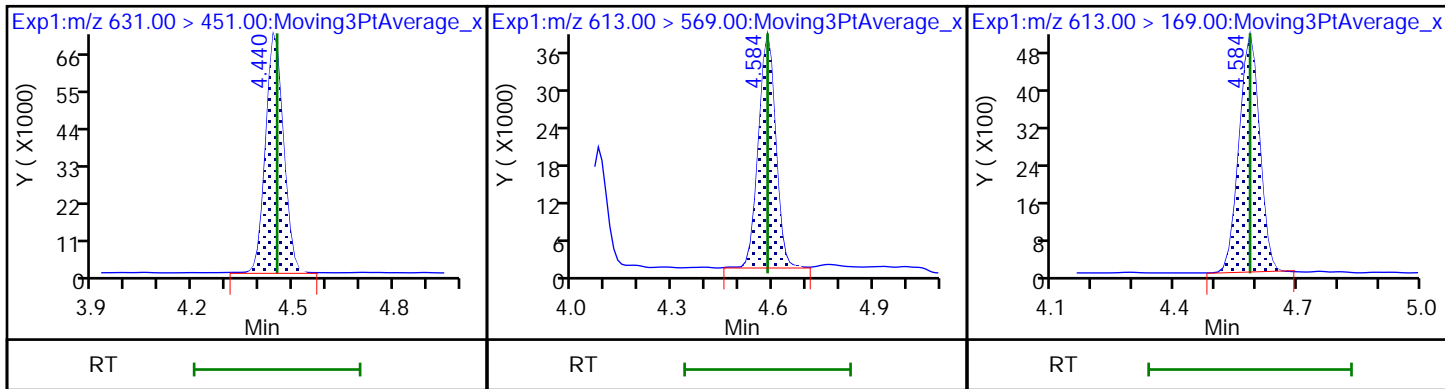
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

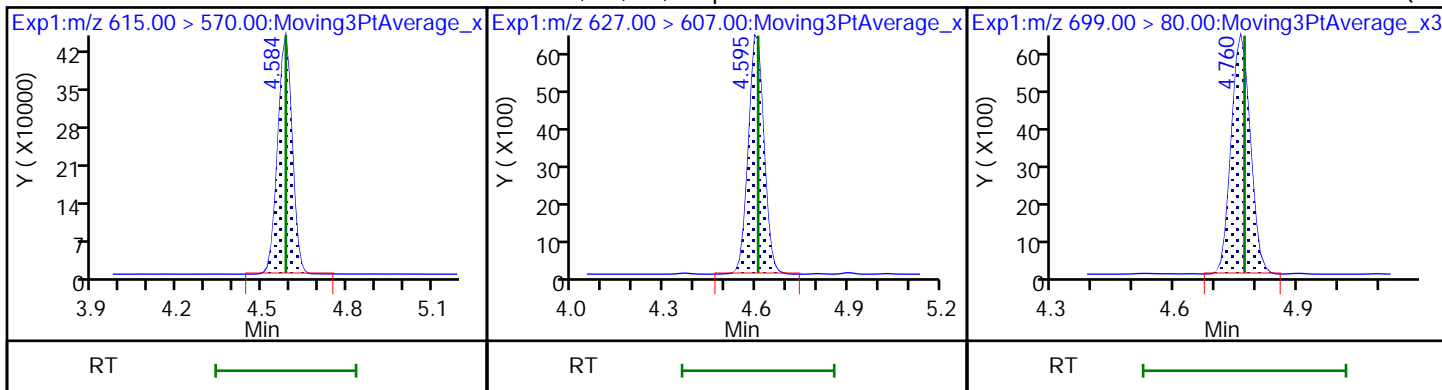
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

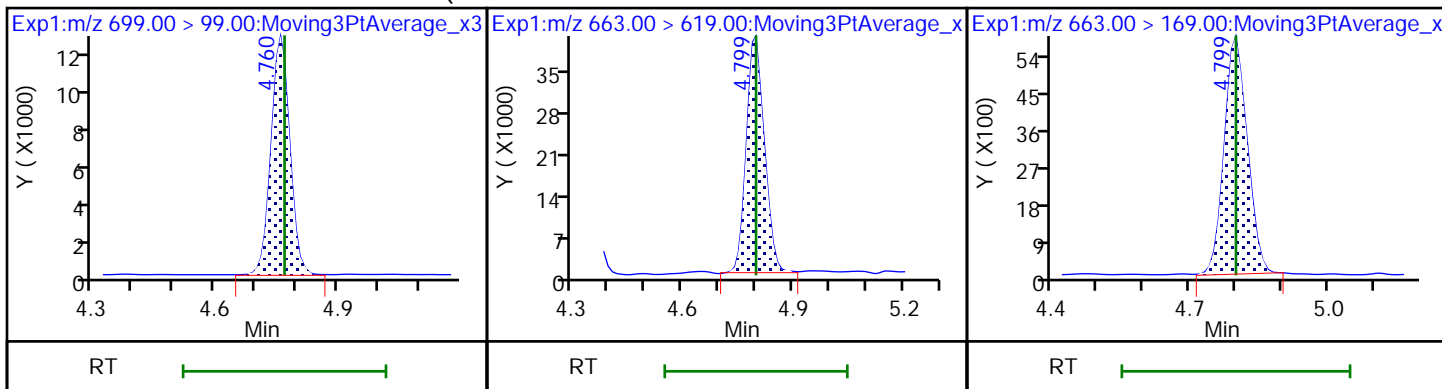
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

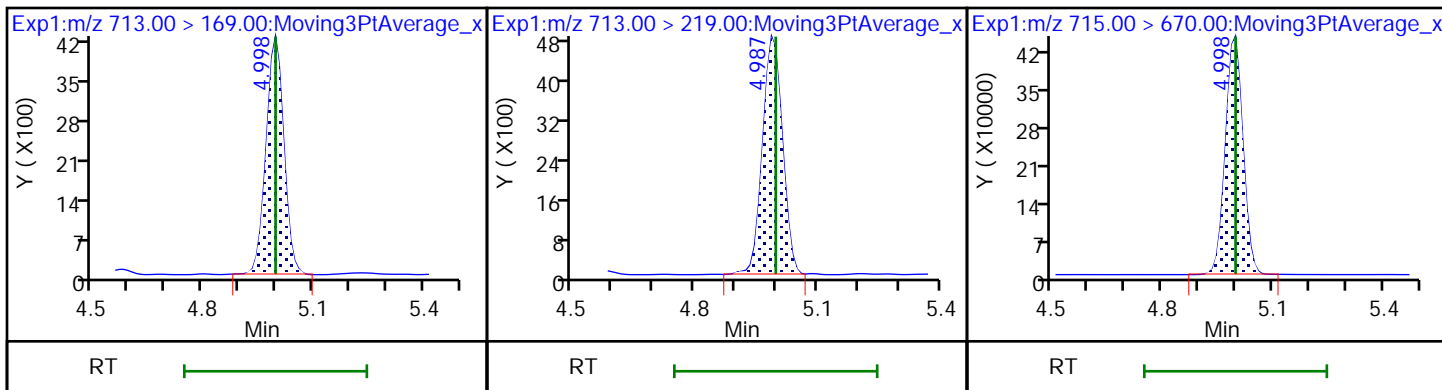
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

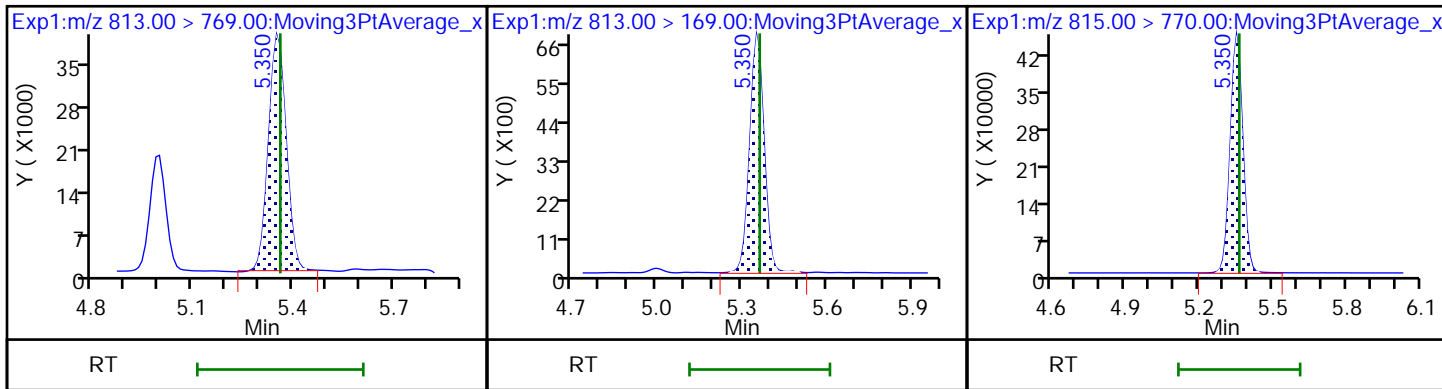
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

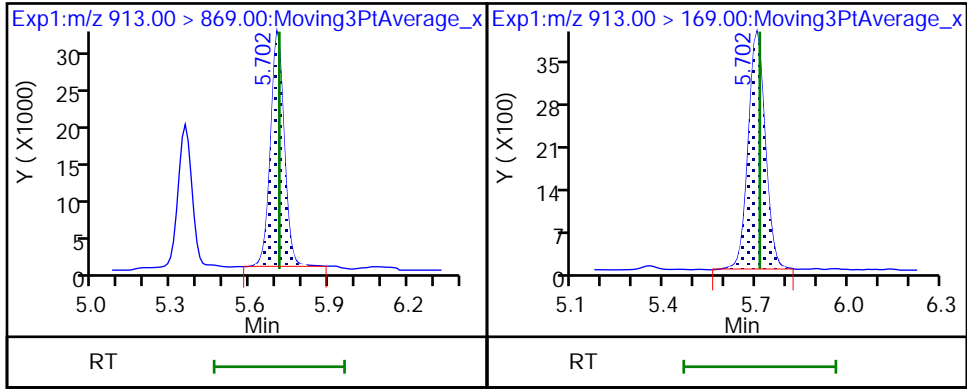
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

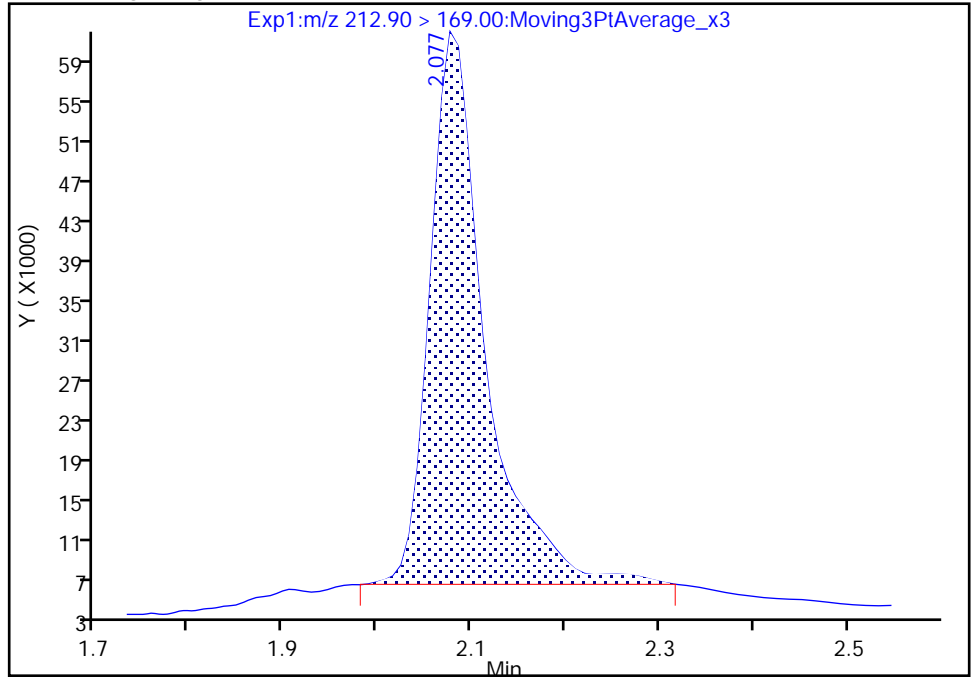
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

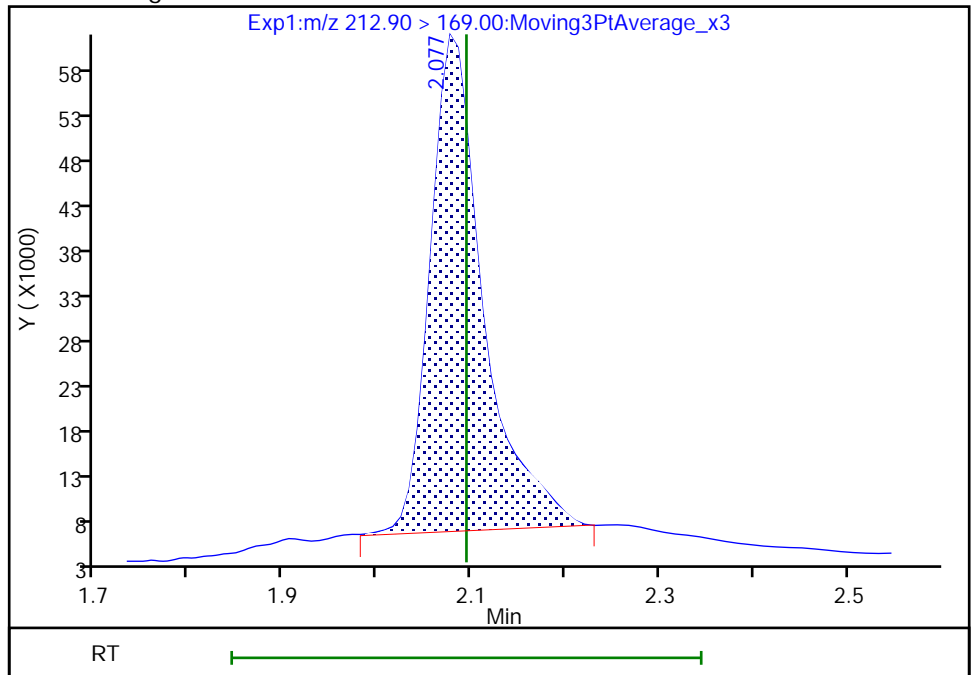
RT: 2.08
Area: 226890
Amount: 0.119875
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 216064
Amount: 0.104031
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:26:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 254 of 742

Eurofins Burlington

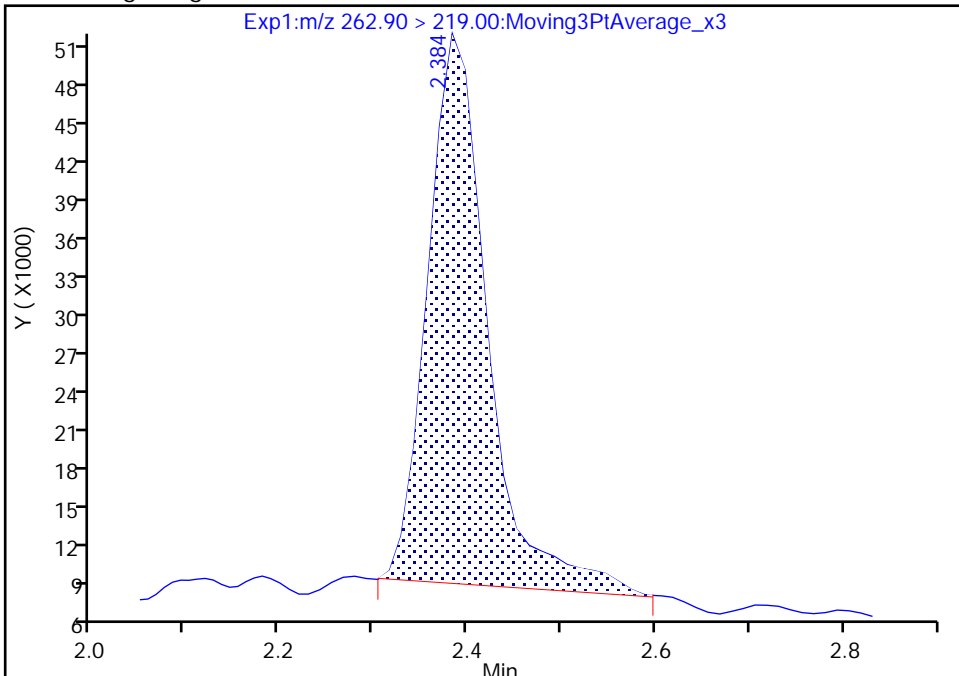
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

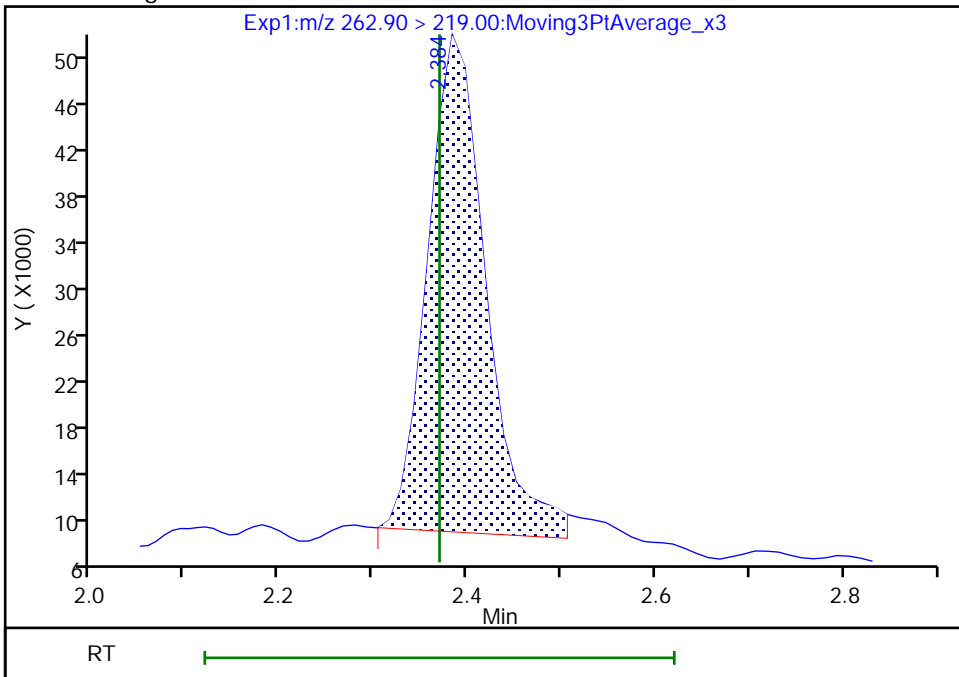
RT: 2.38
Area: 187650
Amount: 0.113061
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 181764
Amount: 0.112780
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:30:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

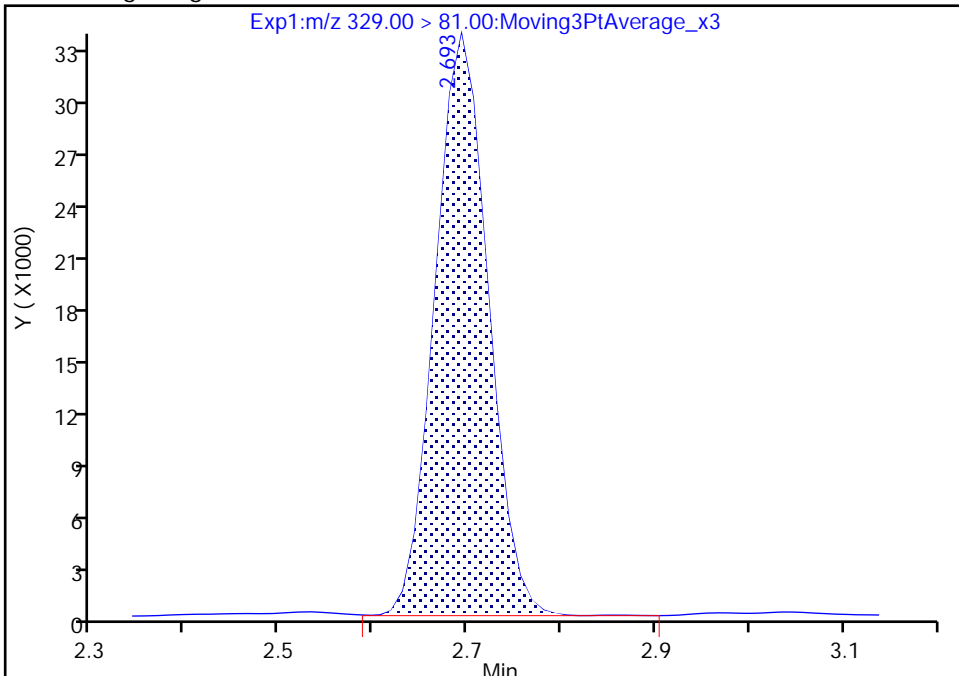
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

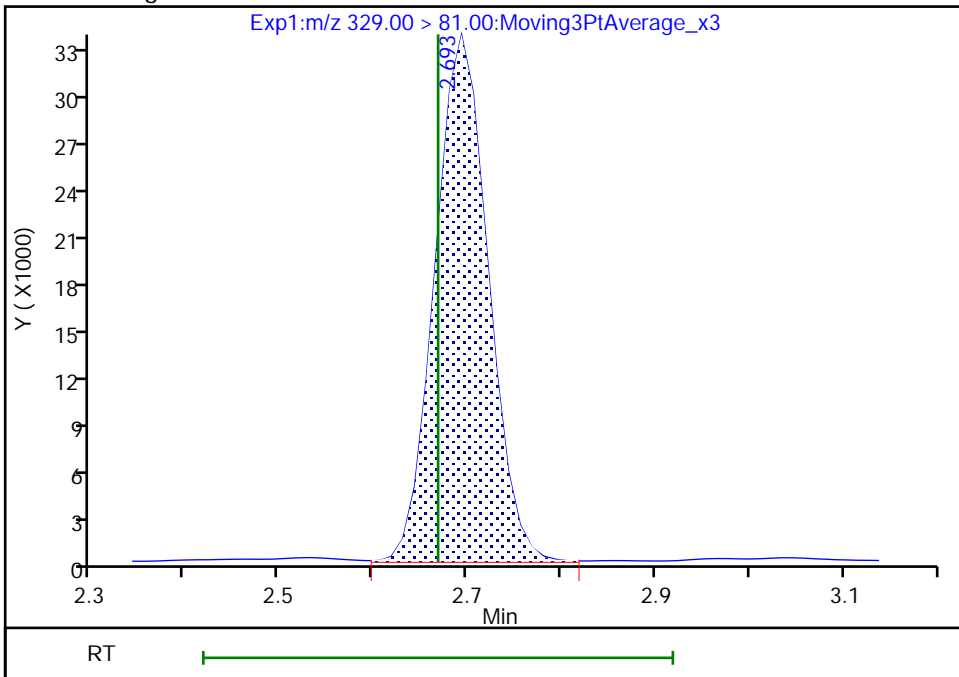
RT: 2.69
Area: 130297
Amount: 1.148888
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 129921
Amount: 1.146118
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:38:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

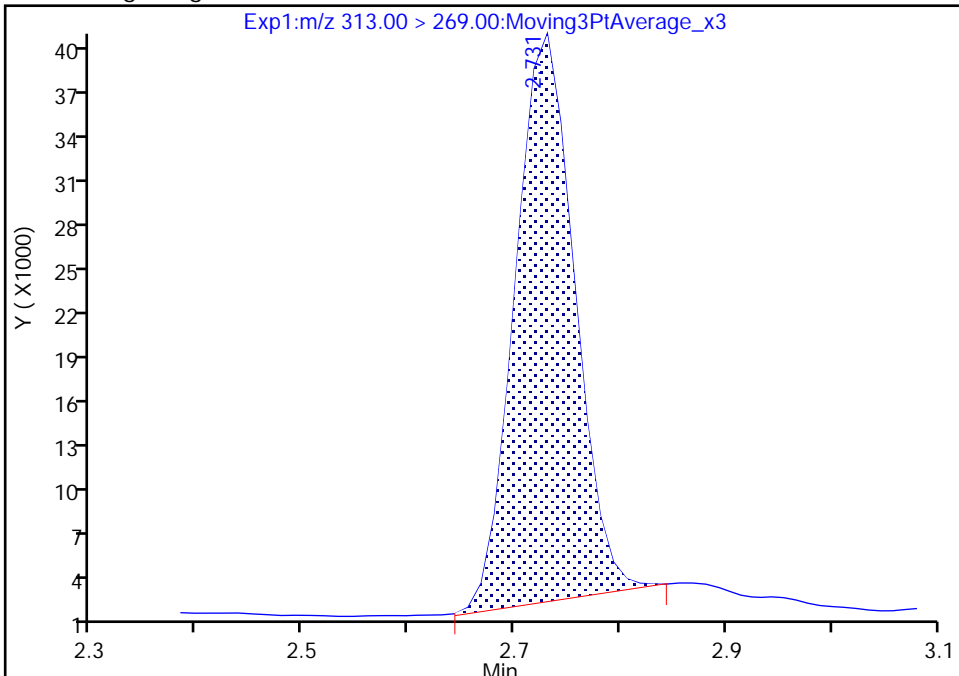
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

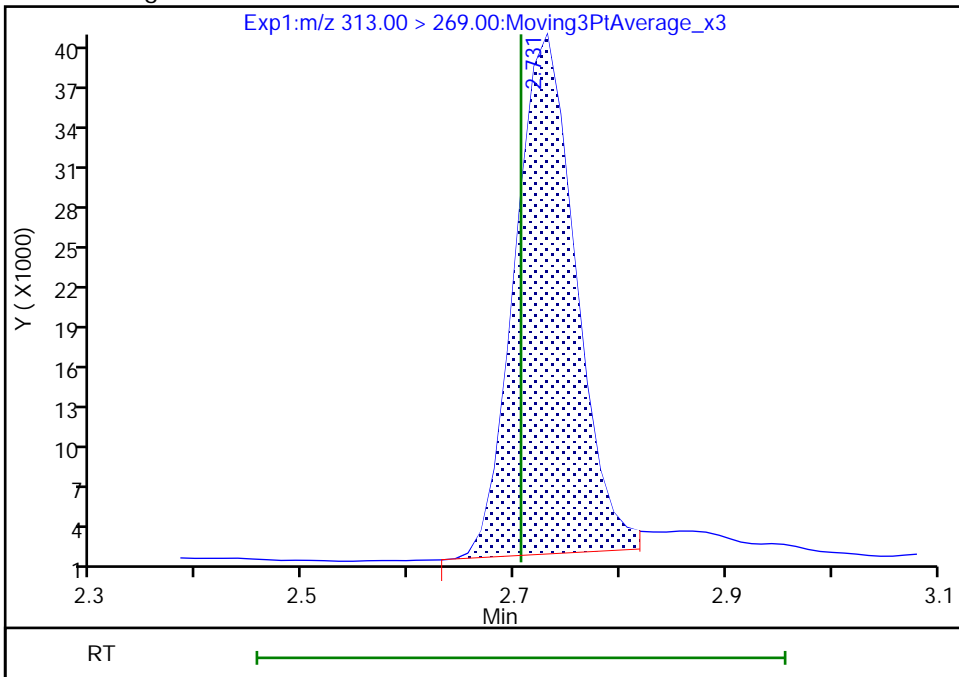
RT: 2.73
Area: 148290
Amount: 0.105557
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 153319
Amount: 0.108489
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:39:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

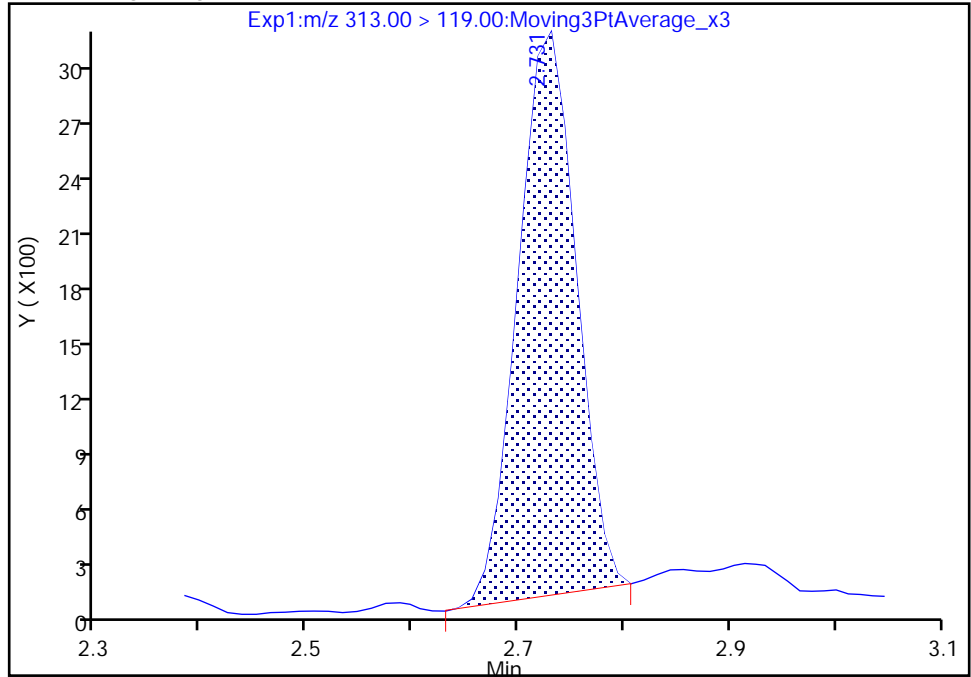
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

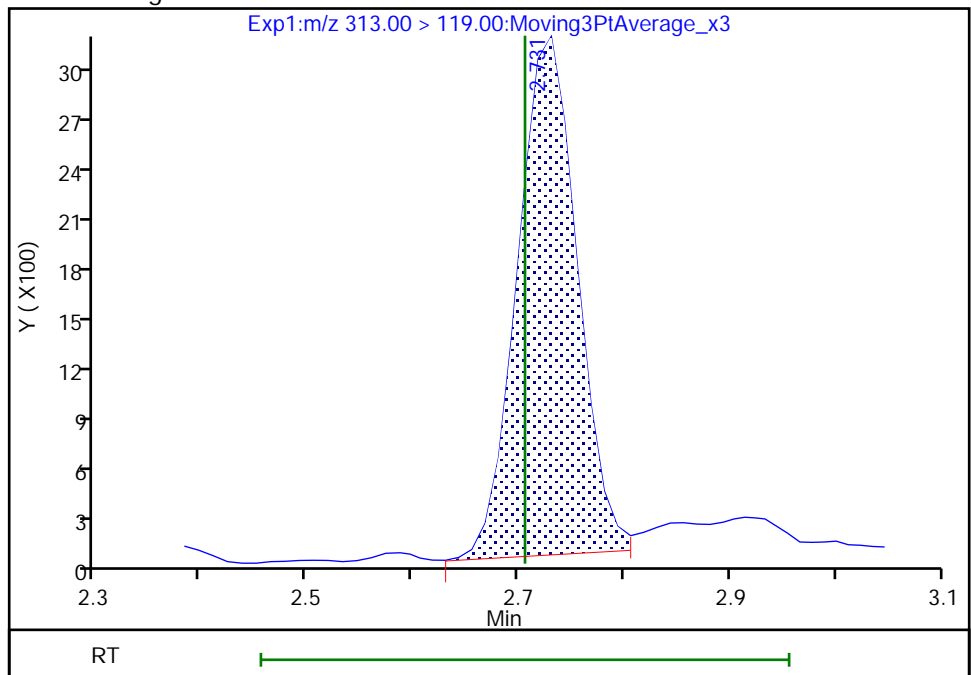
RT: 2.73
Area: 11474
Amount: 0.105557
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 11952
Amount: 0.108489
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:39:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

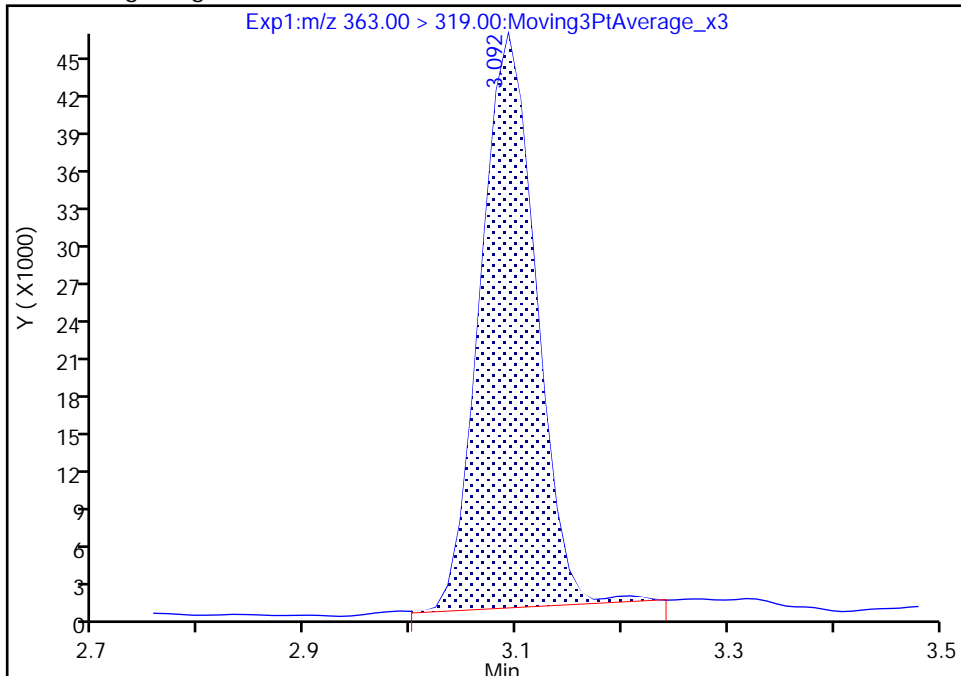
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

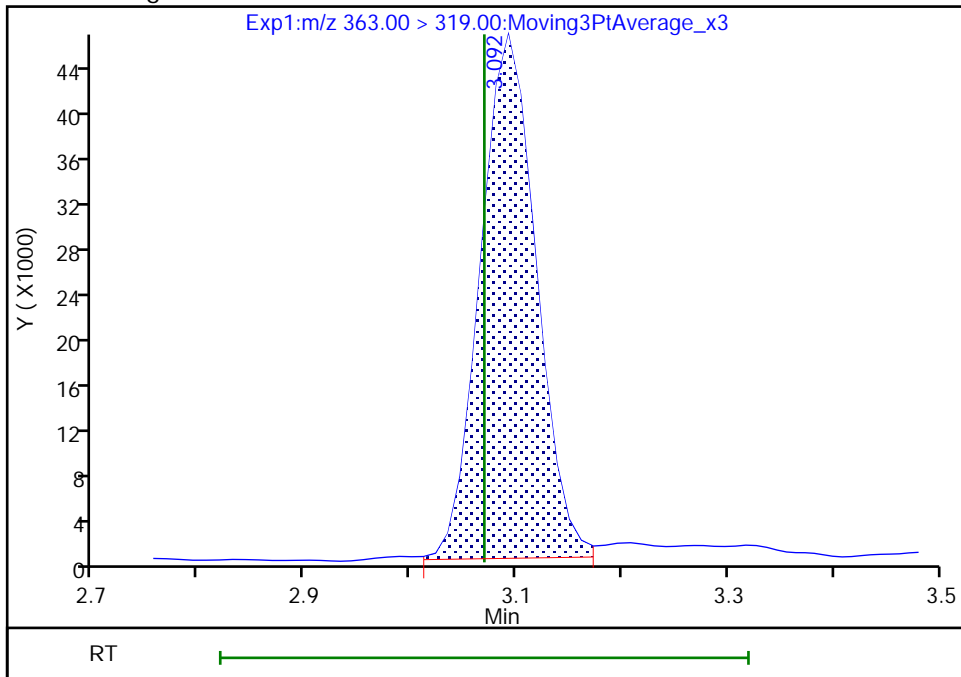
RT: 3.09
Area: 164975
Amount: 0.104683
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 167208
Amount: 0.105850
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:39:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

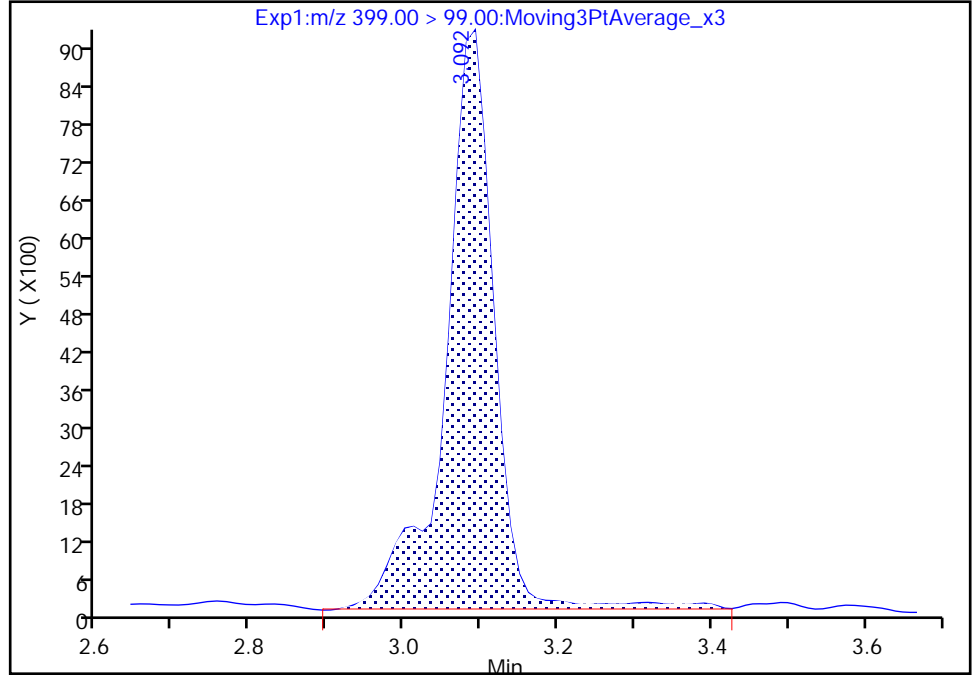
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

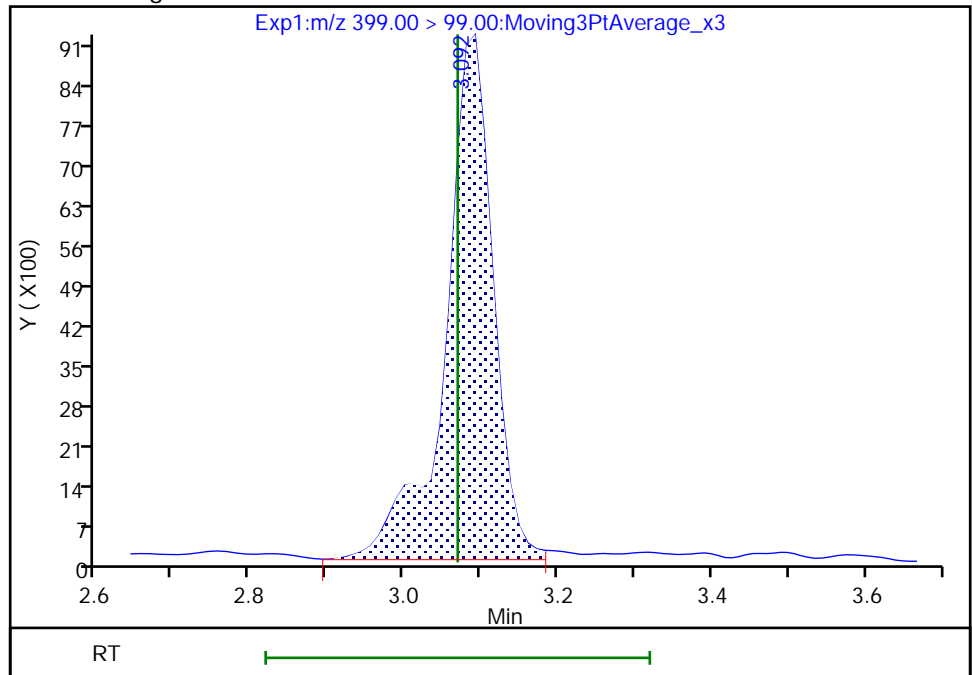
RT: 3.09
Area: 40551
Amount: 0.096810
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 39396
Amount: 0.096816
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:39:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

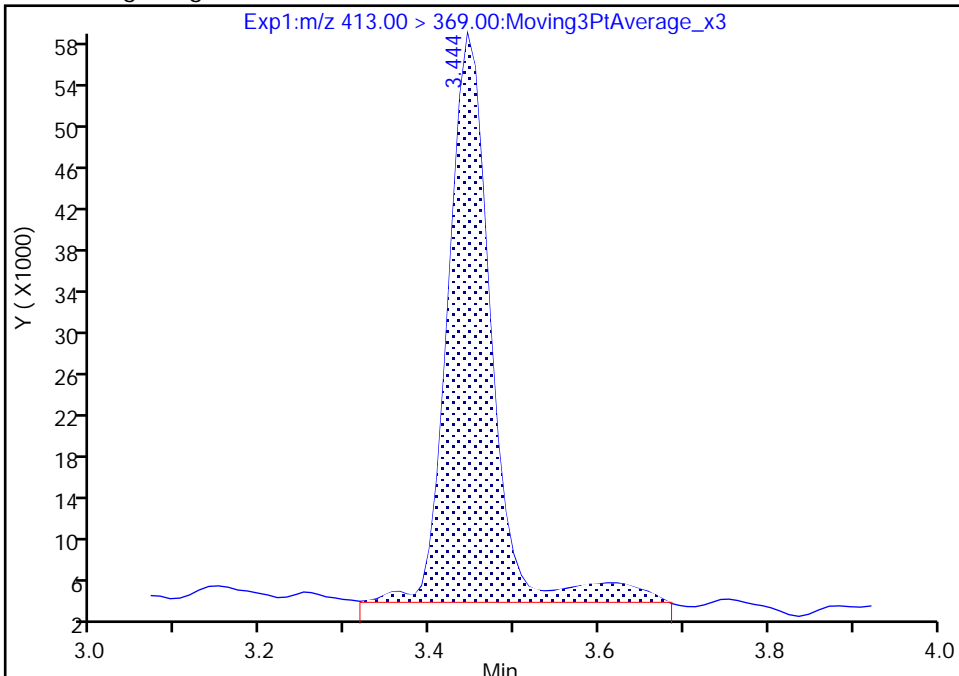
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

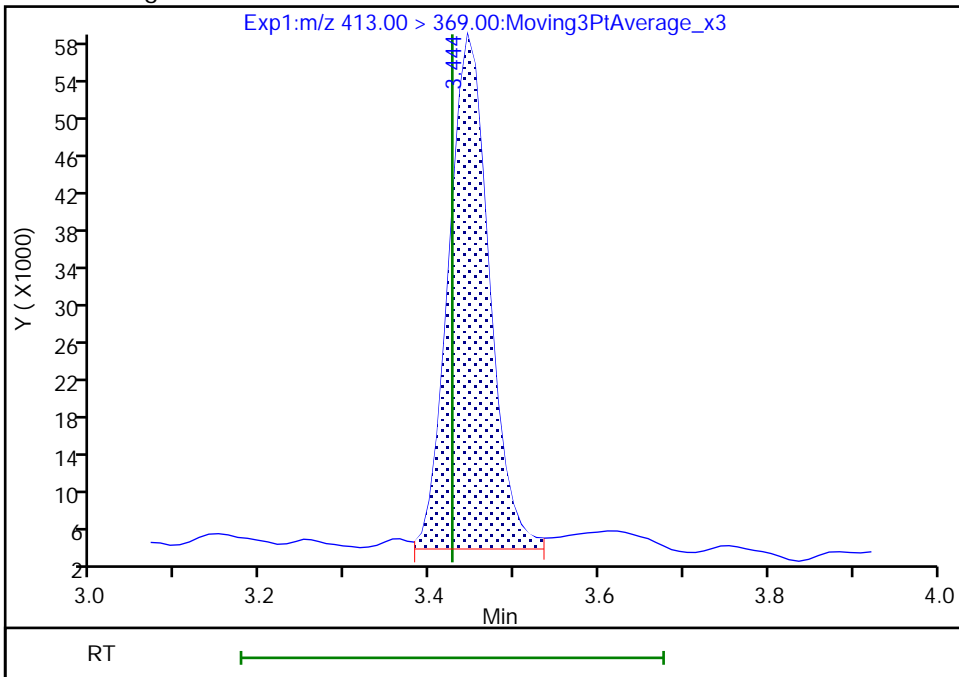
RT: 3.44
Area: 197807
Amount: 0.124647
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 183000
Amount: 0.117013
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:39:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

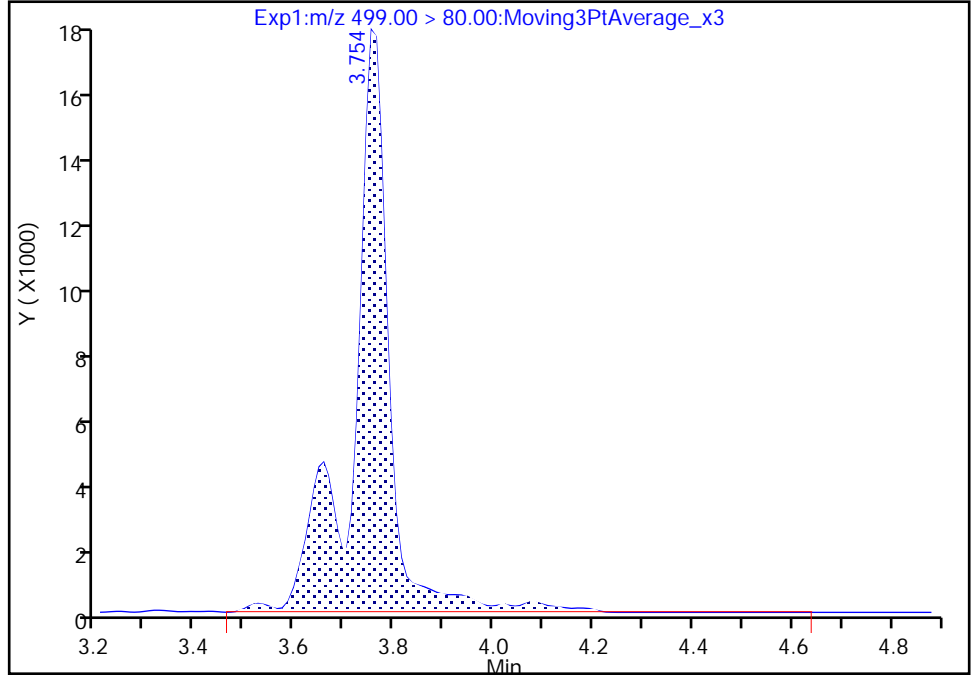
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

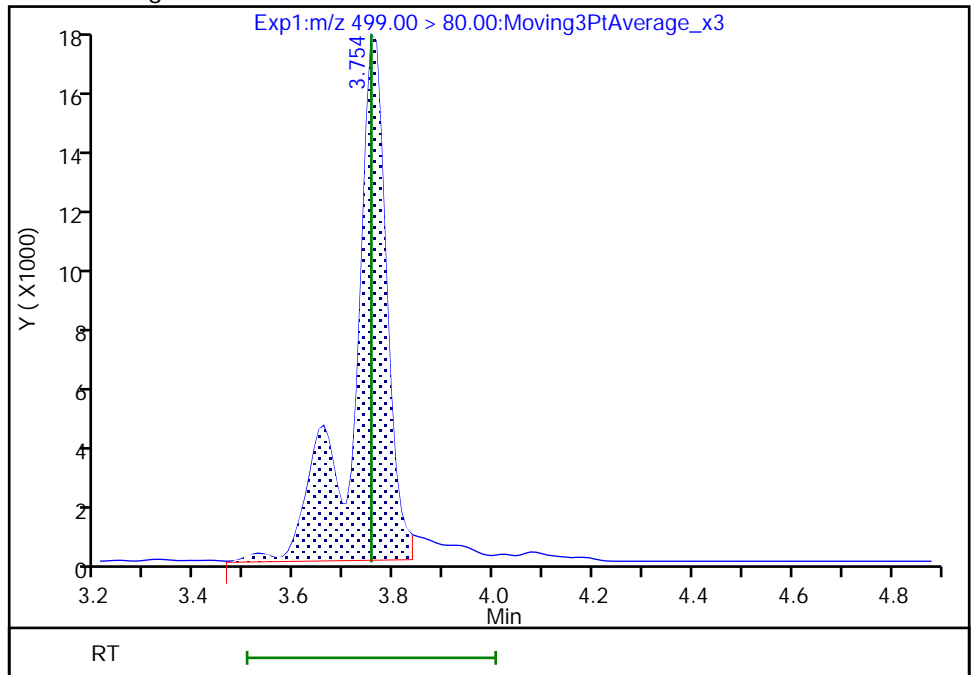
RT: 3.75
Area: 88679
Amount: 0.105628
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 80631
Amount: 0.098313
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

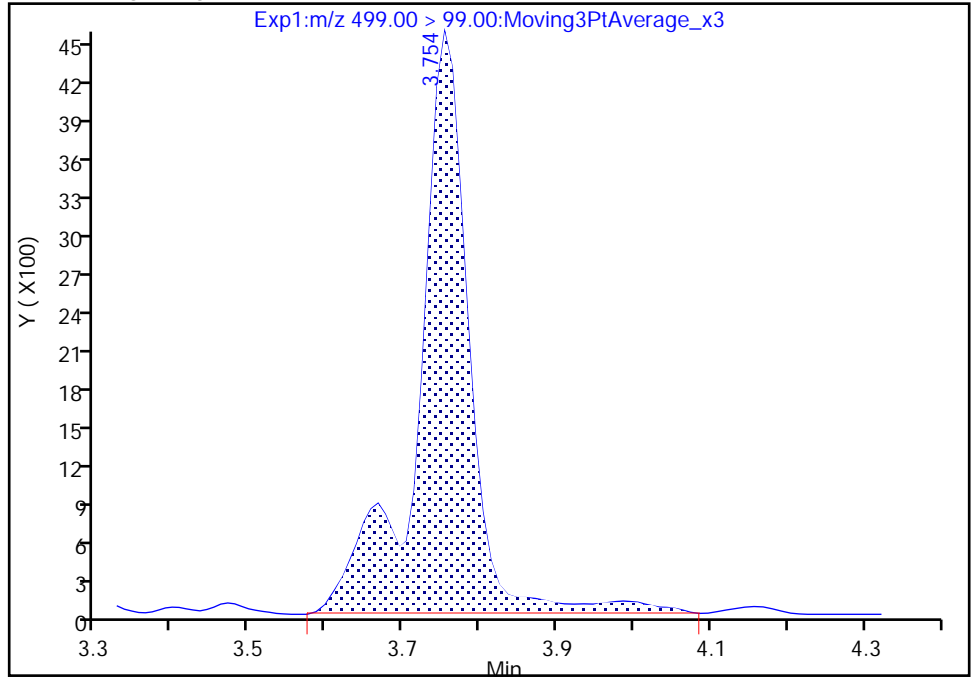
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

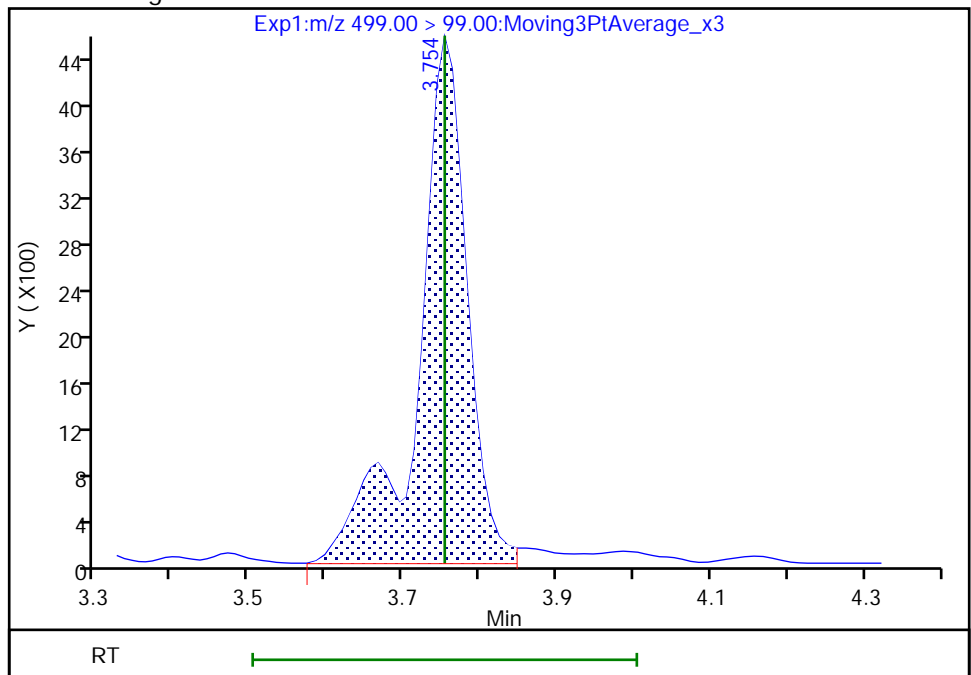
RT: 3.75
Area: 21314
Amount: 0.105628
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 20236
Amount: 0.098313
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

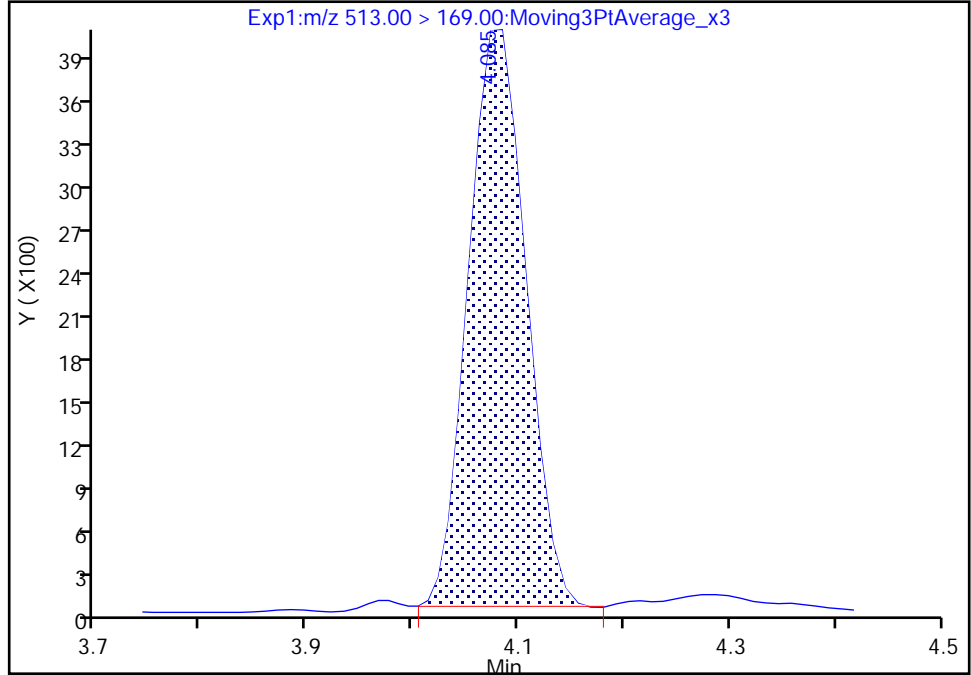
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

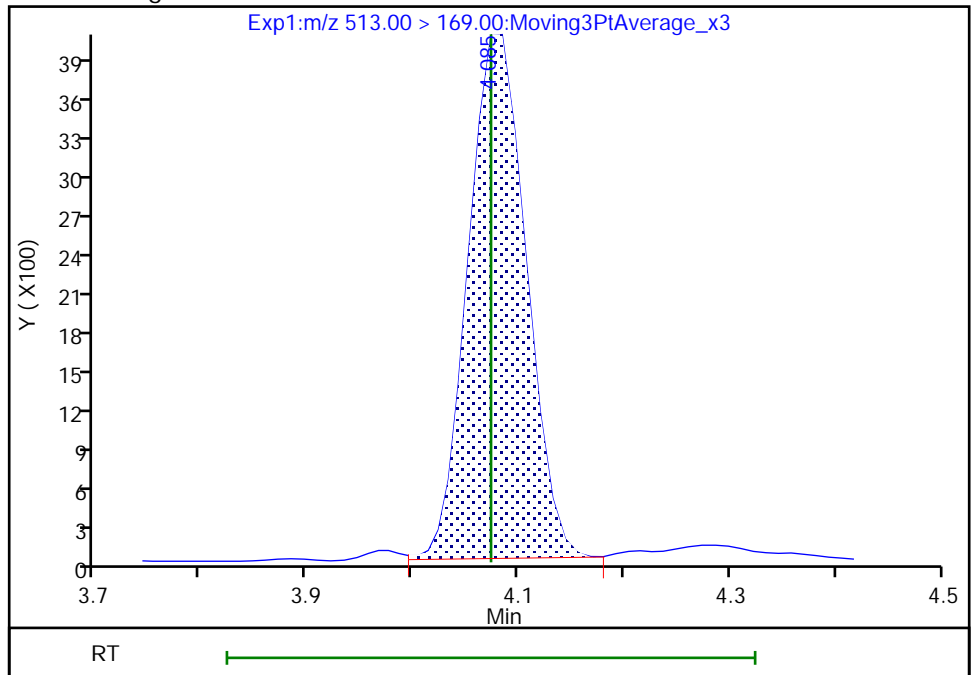
RT: 4.08
Area: 15070
Amount: 0.106268
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 15244
Amount: 0.106268
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 264 of 742

Eurofins Burlington

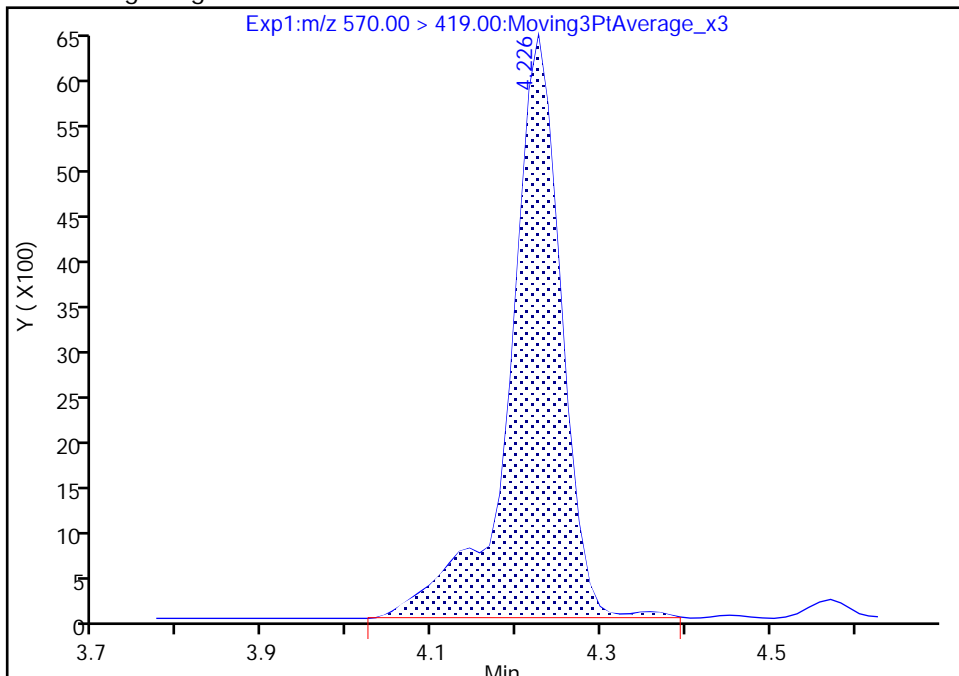
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

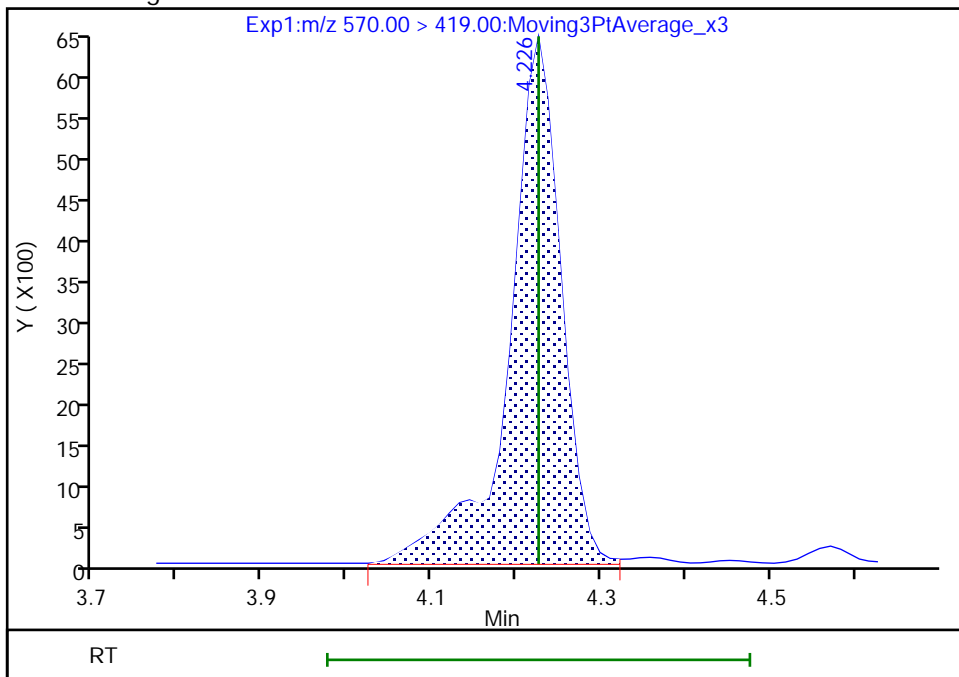
RT: 4.23
Area: 27825
Amount: 0.111107
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 27592
Amount: 0.110689
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

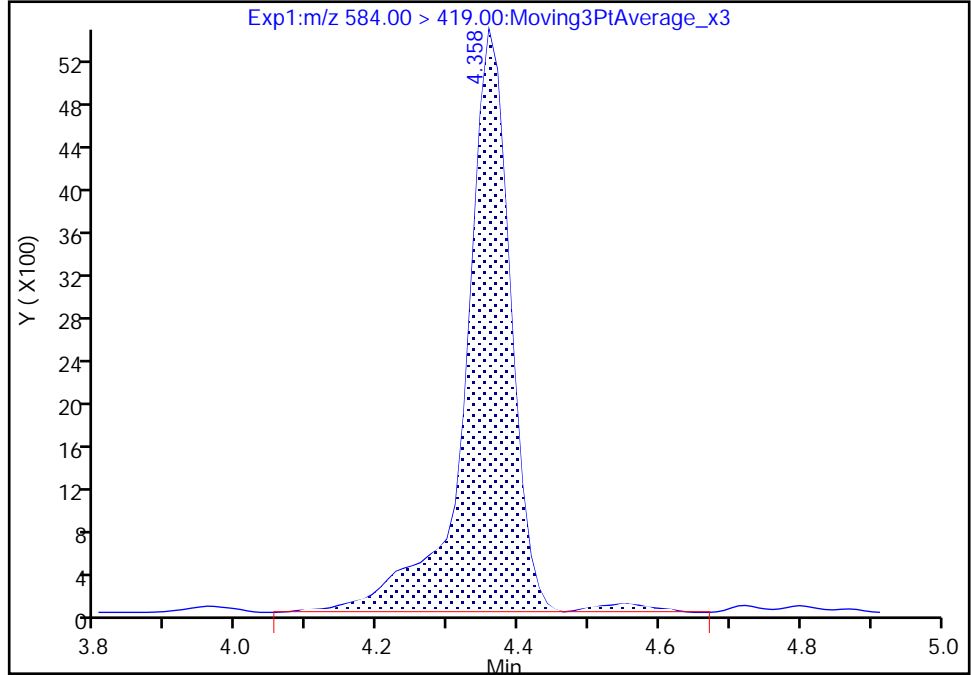
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

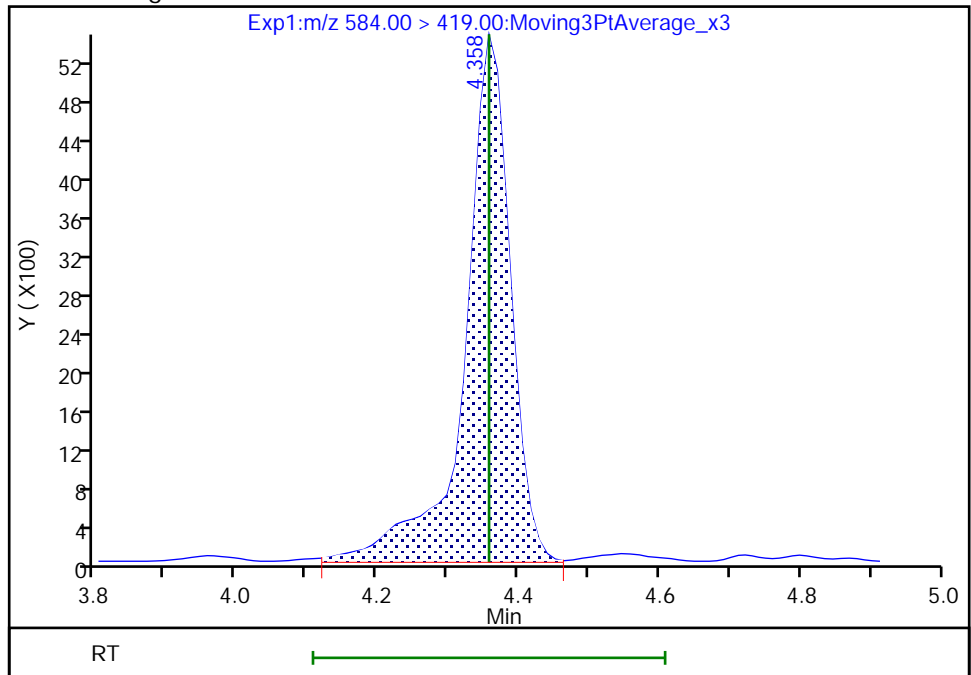
RT: 4.36
Area: 24983
Amount: 0.106238
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 24452
Amount: 0.104694
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:41:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

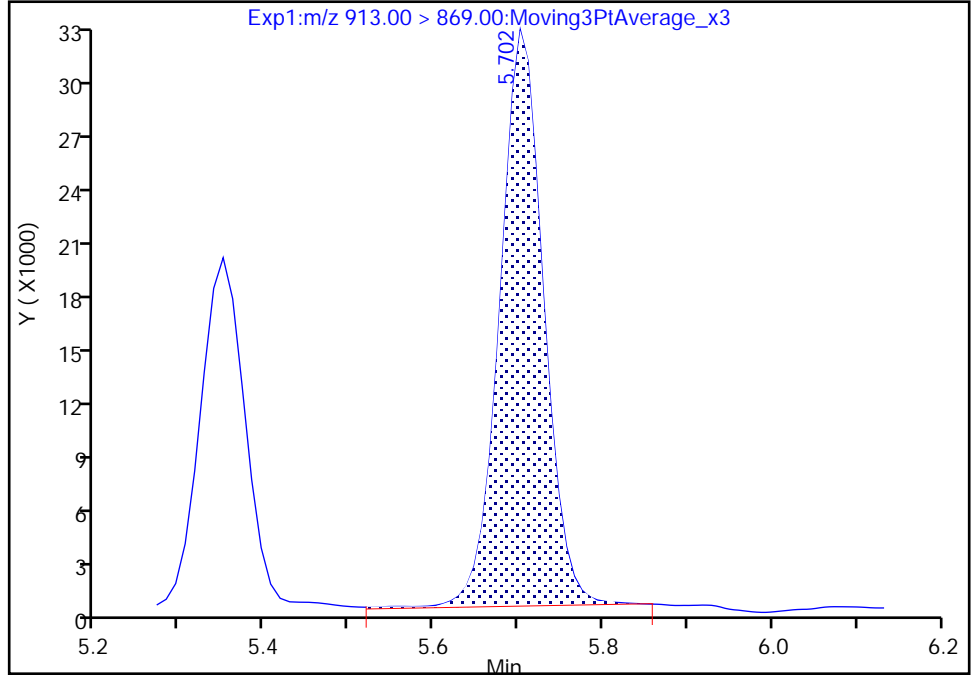
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

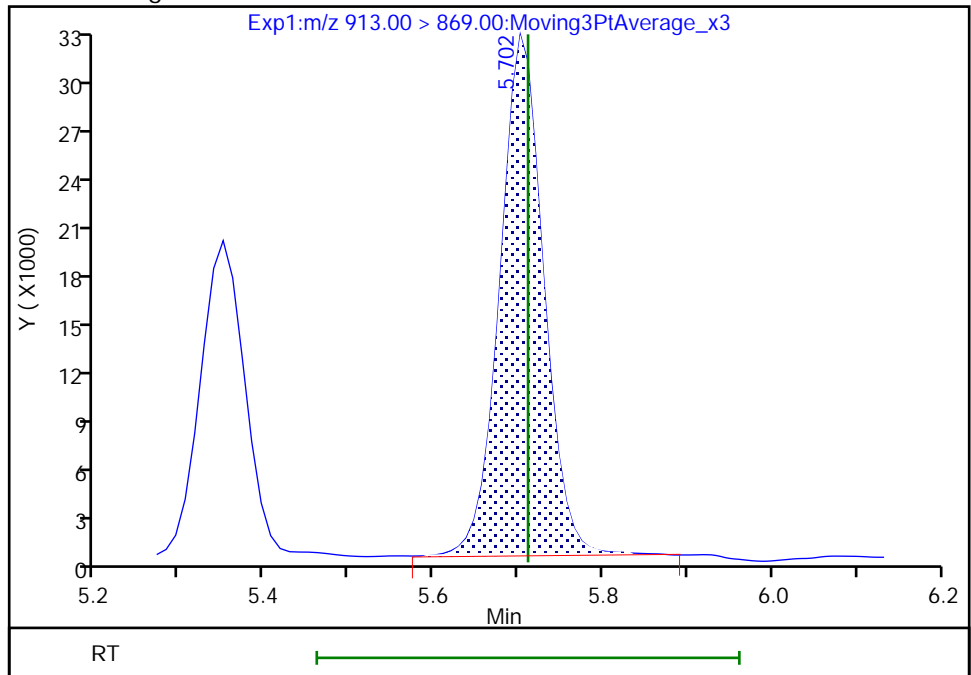
RT: 5.70
Area: 114107
Amount: 0.108145
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 113666
Amount: 0.108109
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:44:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Jan-2023 17:59:25 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-007 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:26 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 12:24:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.603	2083329	1.30	104	15616	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.094	-0.008	1.004	904017	0.5291		106	81.6	M
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1552712	1.20	95.8	6371	
4 Perfluoropentanoic acid	262.90 > 219.00	2.384	2.370	0.014	1.000	750439	0.5275	106	24.0	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1708666	1.20	103	174978	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.397	2.384	0.013	1.000	697170	0.4428	Target=1.99	100	1172
298.90 > 99.00	2.397	2.384	0.013	1.000	339569		2.05(0.99-2.98)	100	277	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.694	2.669	0.025	1.000	170052	0.5058	108	2133	
D 60 M2-4:2 FTS	329.00 > 81.00	2.694	2.669	0.025	0.782	132646	1.15	98.7	199	M
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.793	1669242	1.24	99.1	9627	
6 Perfluorohexanoic acid	313.00 > 269.00	2.731	2.706	0.025	1.000	808024	0.5743	Target=13.02	115	137
313.00 > 119.00	2.731	2.706	0.025	1.000	53873		15.00(6.51-19.53)	115	99.7	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.883	618646	0.4830	Target=2.73	103	1116
349.00 > 99.00	2.731	2.706	0.025	0.883	238386		2.60(1.37-4.10)	103	744	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.831	2.806	0.025	1.000	118554	0.4863	97.3	2921	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.831	2.806	0.025	0.822	304873	1.31		105	3214	
D 11 18O2 PFHxS										
403.00 > 84.00	3.092	3.069	0.023	0.898	1224605	1.18		100	4785	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.092	3.069	0.023	1.000	563340	0.4956	Target=3.13	109	1835	
399.00 > 99.00	3.092	3.069	0.023	1.000	170394		3.31(1.57-4.70)	109	318	
D 9 13C4 PFHpA										
367.00 > 322.00	3.092	3.069	0.023	0.898	1725691	1.28		102	6390	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.092	3.069	0.023	1.000	787489	0.5356	Target=3.92	107	149	
363.00 > 169.00	3.092	3.069	0.023	1.000	207674		3.79(1.96-5.88)	107	400	
77 DONA										
377.00 > 251.00	3.138	3.104	0.034	0.834	1782286	0.5069	Target=3.04	108	1266	
377.00 > 85.00	3.138	3.104	0.034	0.834	570975		3.12(1.52-4.56)	108	1182	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.435	3.417	0.018	0.997	213768	1.31		110	1186	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.435	3.417	0.018	1.000	206634	0.5013		106	338	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.435	3.417	0.018	0.913	504952	0.5659	Target=4.66	119	2127	
449.00 > 99.00	3.435	3.417	0.018	0.913	108825		4.64(2.33-6.99)	119	688	
D 14 13C4 PFOA										
417.00 > 372.00	3.453	3.426	0.027	1.003	1845411	1.29		103	14525	
* 62 13C2 PFOA										
415.00 > 370.00	3.444	3.426	0.018		1743405	1.25			12198	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.453	3.426	0.027	1.000	823197	0.5124	Target=3.01	102	61.1	
413.00 > 169.00	3.453	3.426	0.027	1.000	283575		2.90(1.50-4.51)	102	639	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.754	0.010	1.093	732775	1.16		97.4	4661	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.754	0.010	1.000	365984	0.4913	Target=4.13	106	491	M
499.00 > 99.00	3.764	3.754	0.010	1.000	88101		4.15(2.07-6.20)	106	389	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.784	3.774	0.010	1.000	791576	0.5543	Target=8.58	111	128	
463.00 > 169.00	3.784	3.774	0.010	1.000	87950		9.00(4.29-12.87)	111	780	
D 19 13C5 PFNA										
468.00 > 423.00	3.784	3.774	0.010	1.098	1747438	1.26		100	5530	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.935	3.922	0.013	1.045	894206	0.5029		108	5297	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	357862	0.5784	Target=2.32	121	2103	
549.00 > 99.00	4.052	4.043	0.009	1.077	148770		2.41(1.16-3.48)	121	848	
D 23 13C2 PFDA										
515.00 > 470.00	4.085	4.074	0.011	1.186	1930492	1.35		108	10784	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.085	4.074	0.011	1.000	812767	0.4922	Target=10.61	98.4	253	
513.00 > 169.00	4.085	4.074	0.011	1.000	81691		9.95(5.30-15.91)	98.4	326	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.097	4.085	0.012	1.189	257487	1.26		105	1281	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.097	4.085	0.012	1.000	199244	0.5108		107	3285	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.156	4.144	0.012	1.003	591874	0.4839		96.8	1196	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	1520143	1.31		105	2711	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.227	375217	1.34		107	1565	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	128807	0.4759		95.2	504	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.322	-0.012	1.145	248562	0.5389	Target=2.46	112	2205	
599.00 > 99.00	4.310	4.322	-0.012	1.145	99857		2.49(1.23-3.69)	112	1191	
D 30 13C2 PFUnA										
565.00 > 520.00	4.334	4.346	-0.012	1.258	1602066	1.30		104	9898	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.334	4.346	-0.012	1.000	802887	0.5738	Target=11.25	115	244	
563.00 > 169.00	4.334	4.346	-0.012	1.000	66843		12.01(5.62-16.87)	115	751	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.003	144069	0.5242		105	778	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.346	4.358	-0.012	1.262	369795	1.37		110	831	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.429	4.452	-0.023	1.177	1564055	0.5684		121	3627	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.546	4.584	-0.038	1.000	703268	0.5497	Target=8.15	110	80.7	
613.00 > 169.00	4.546	4.584	-0.038	1.000	75480		9.32(4.08-12.23)	110	950	
D 36 13C2 PFDaA										
615.00 > 570.00	4.546	4.584	-0.038	1.320	1570634	1.27		102	3573	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.572	4.606	-0.034	1.116	130458	0.5289		110	2243	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.722	4.770	-0.048	1.255	97843	0.5222	Target=0.53	108	1637	
699.00 > 99.00	4.712	4.770	-0.058	1.252	186705		0.52(0.26-0.79)	108	2630	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.751	4.799	-0.048	1.045	660761	0.5171	Target=6.29	103	82.6	
663.00 > 169.00	4.751	4.799	-0.048	1.045	105353		6.27(3.14-9.43)	103	1247	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.945	4.998	-0.053	1.000	74373	0.5863	Target=0.93	117	1482	
713.00 > 219.00	4.945	4.998	-0.053	1.000	68077		1.09(0.46-1.39)	117	1217	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.945	4.998	-0.053	1.436	1269926	1.19		95.6	4621	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.306	5.362	-0.056	1.000	652349	0.4999	Target=6.52	100.0	103	
813.00 > 169.00	5.306	5.362	-0.056	1.000	98632		6.61(3.26-9.77)	100.0	1391	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.306	5.362	-0.056	1.540	1733261	1.33		106	5750	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.657	5.711	-0.054	1.066	525342	0.4684	Target=7.39	93.7	96.5	M
913.00 > 169.00	5.657	5.711	-0.054	1.066	71215		7.38(3.69-11.08)	93.7	646	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00015

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d

Injection Date: 11-Jan-2023 17:59:25

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

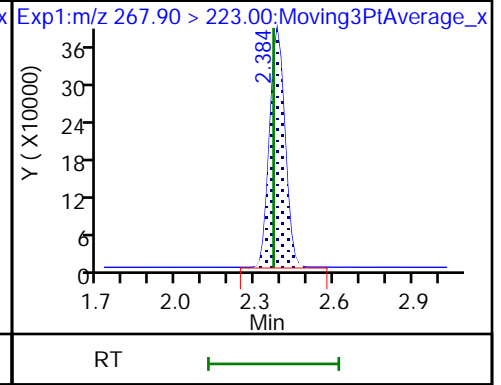
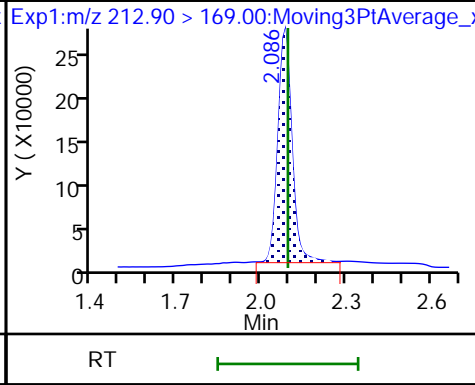
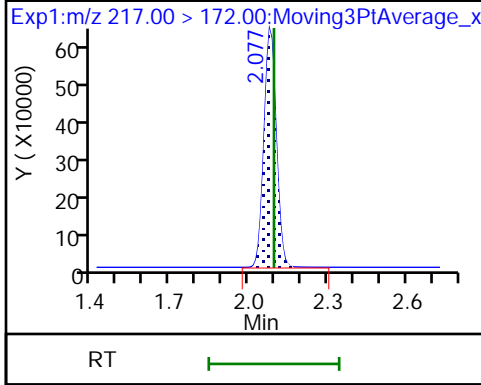
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

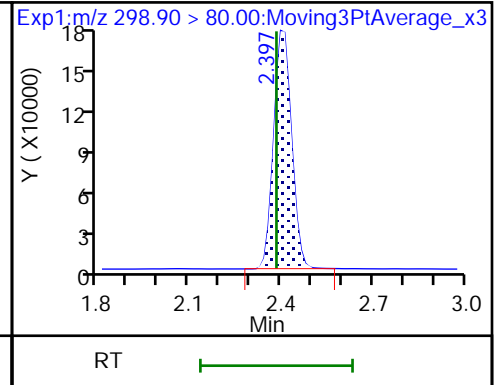
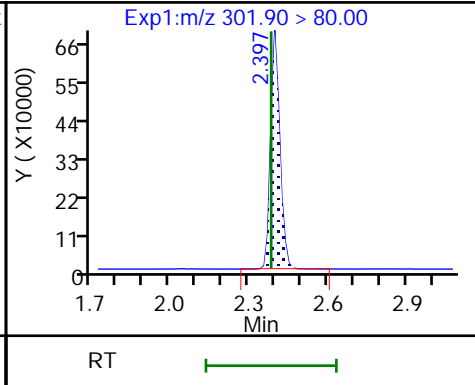
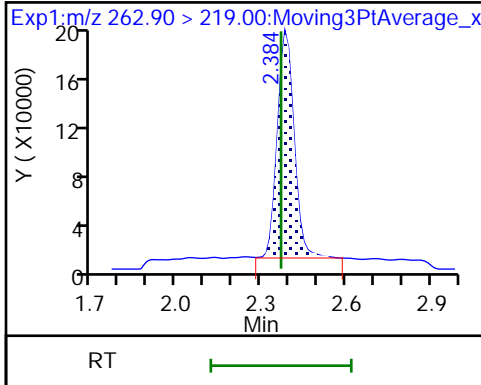
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

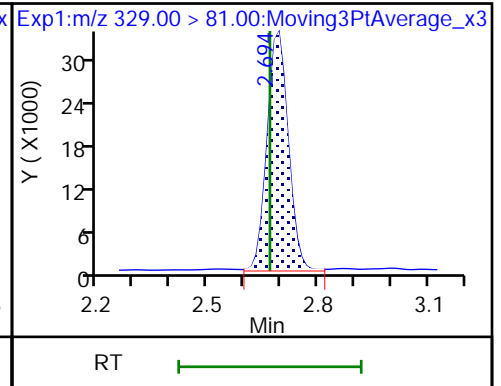
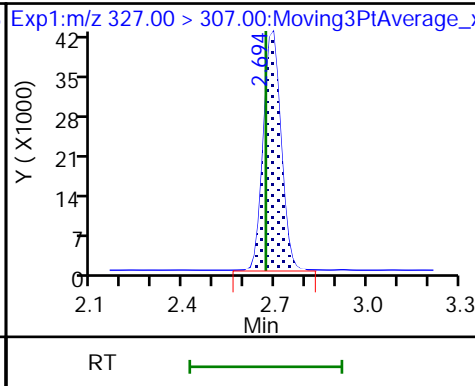
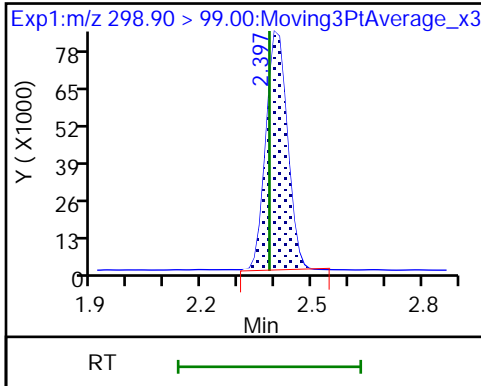
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

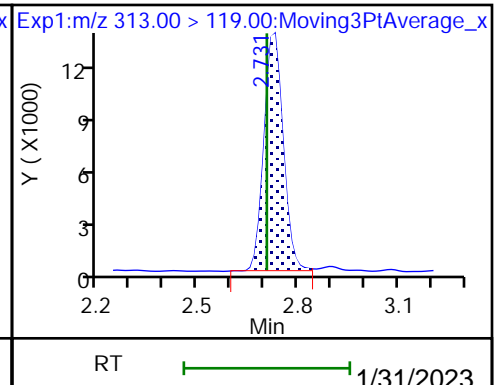
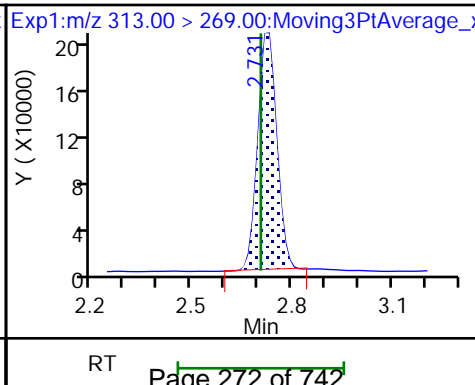
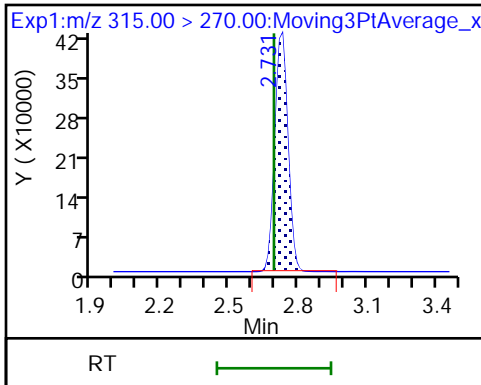
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

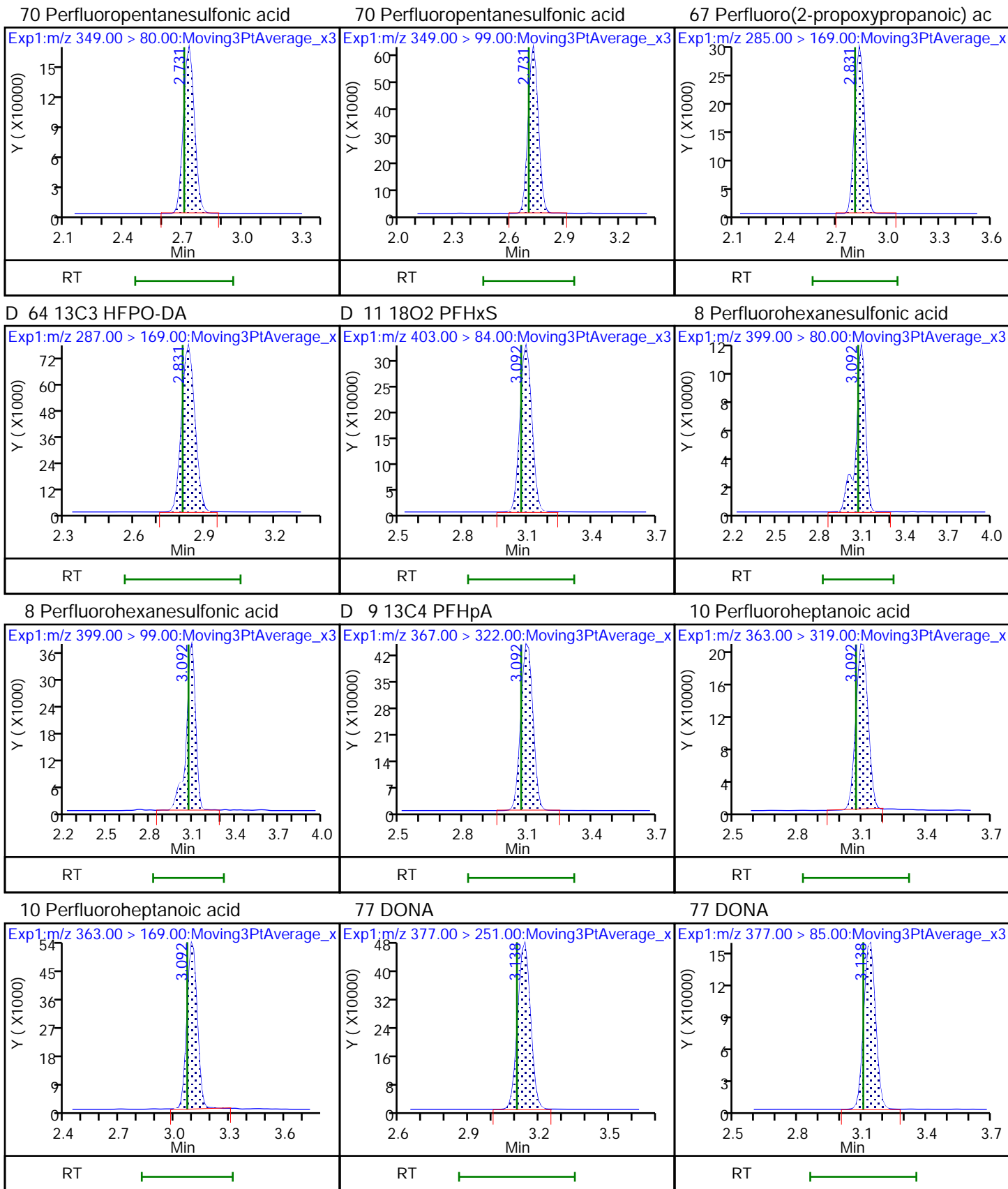


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid (M)

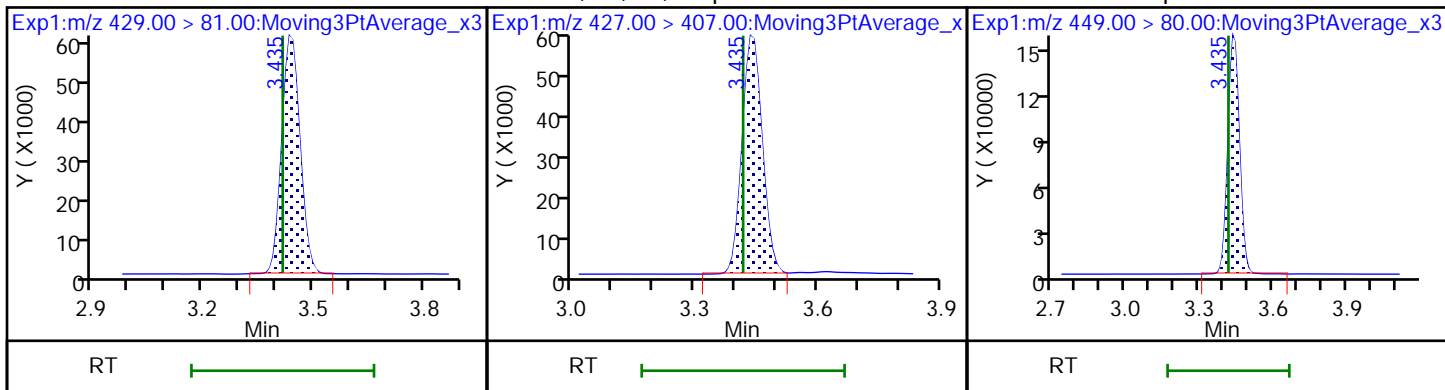




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

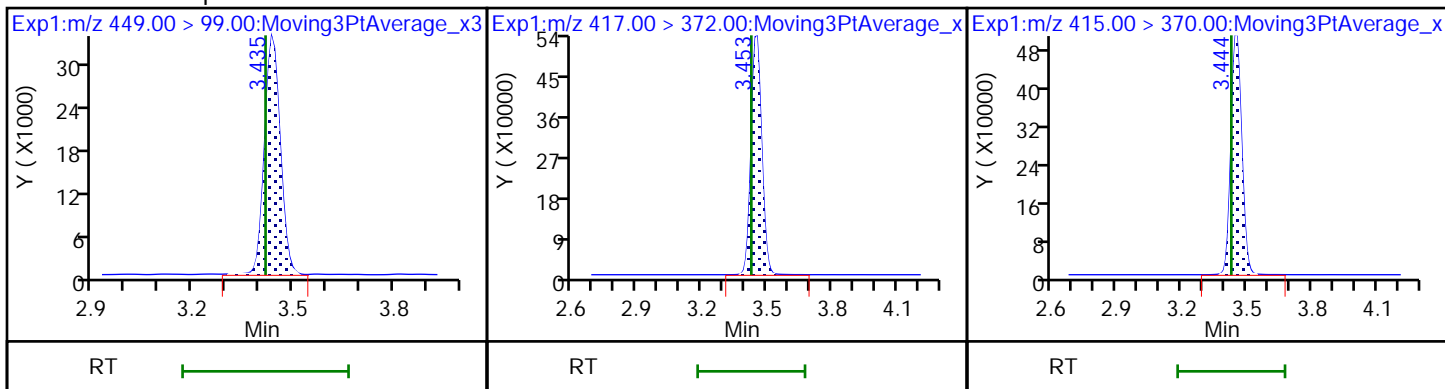
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

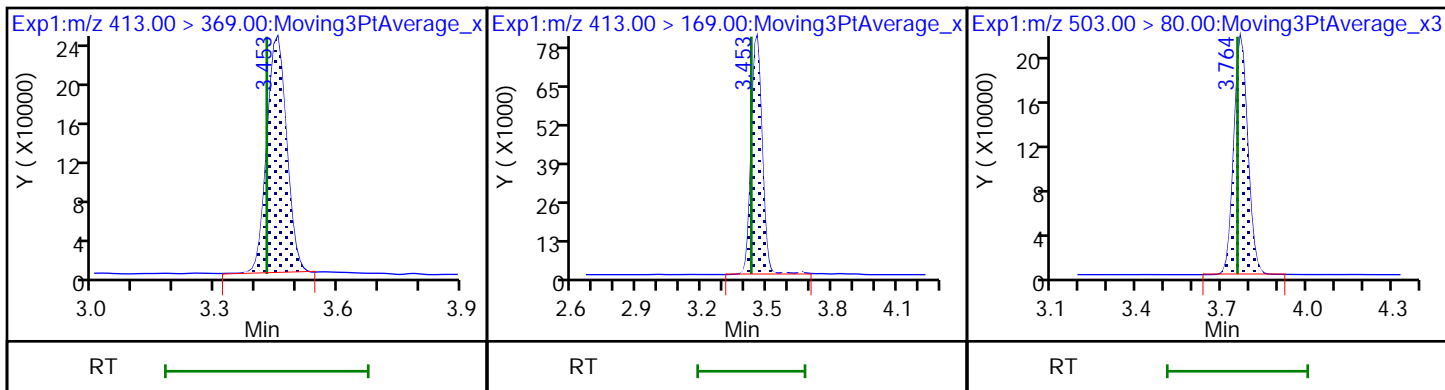
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

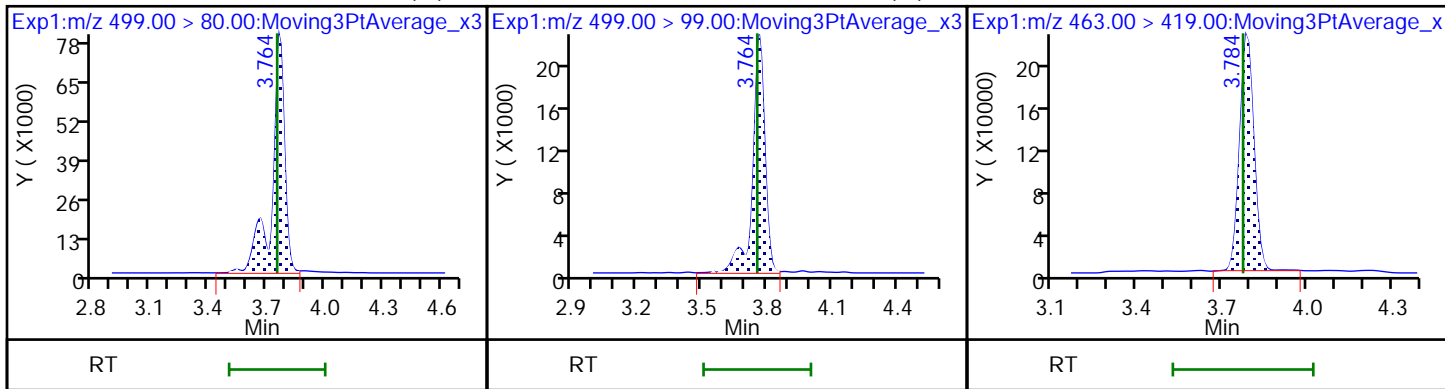
D 18 13C4 PFOS

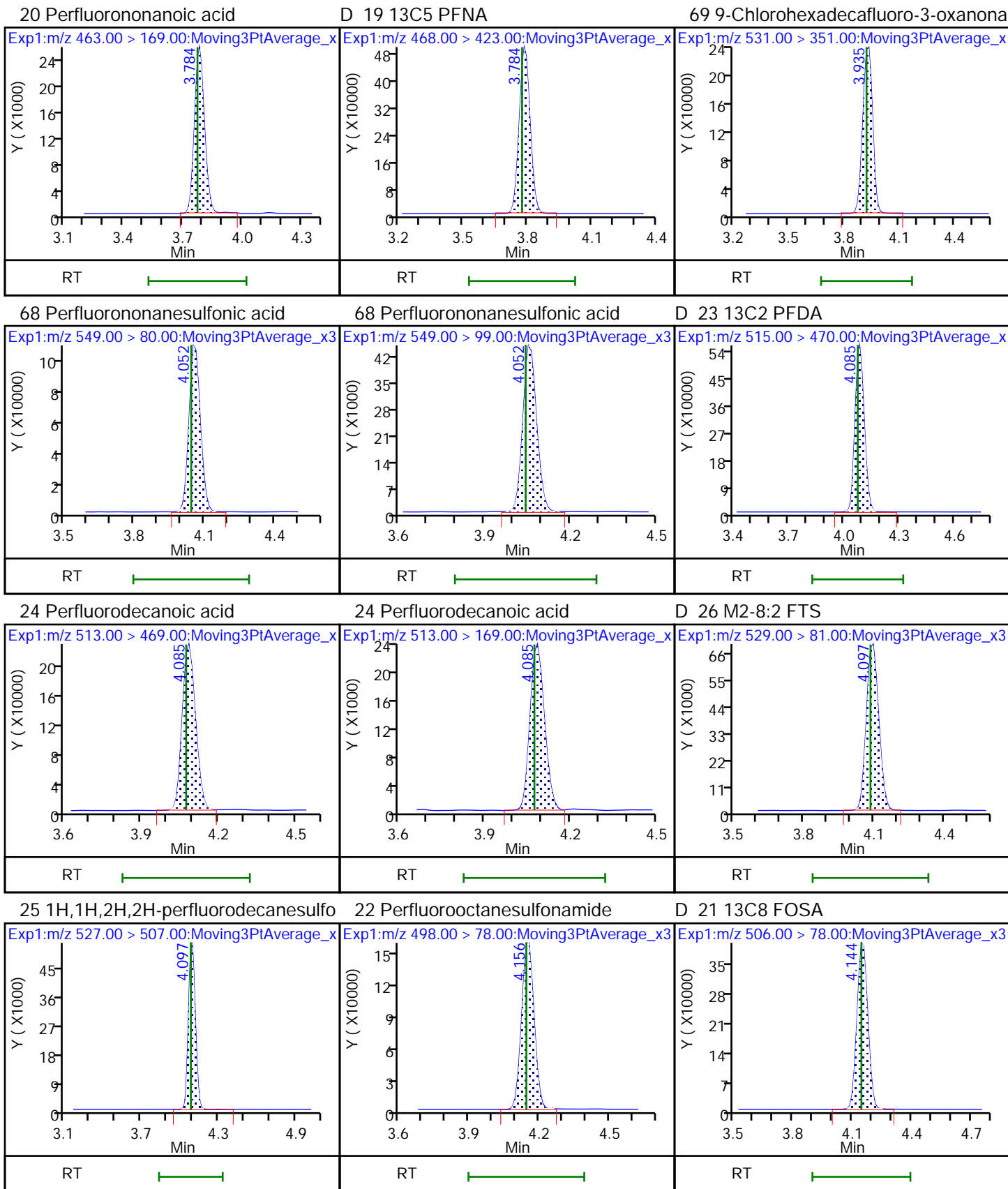


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

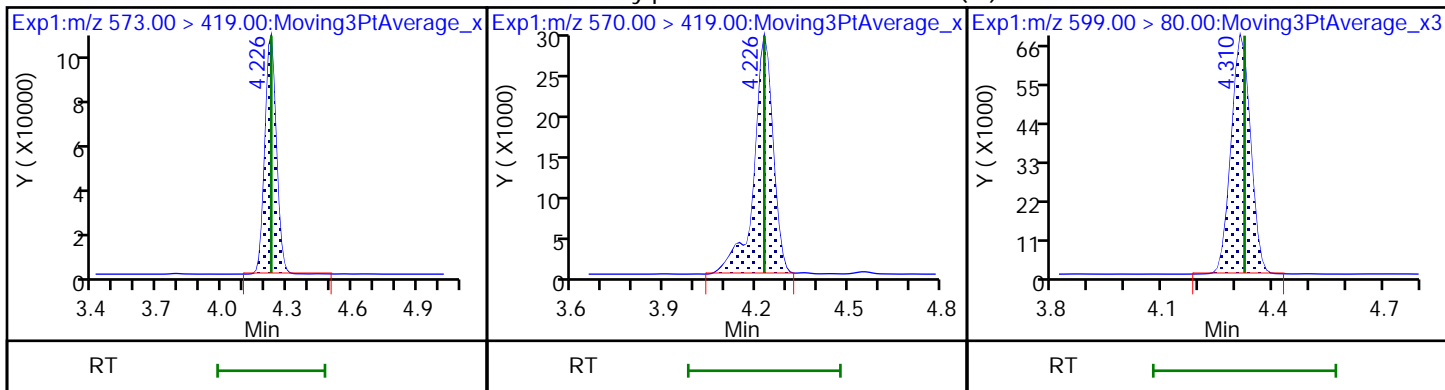
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

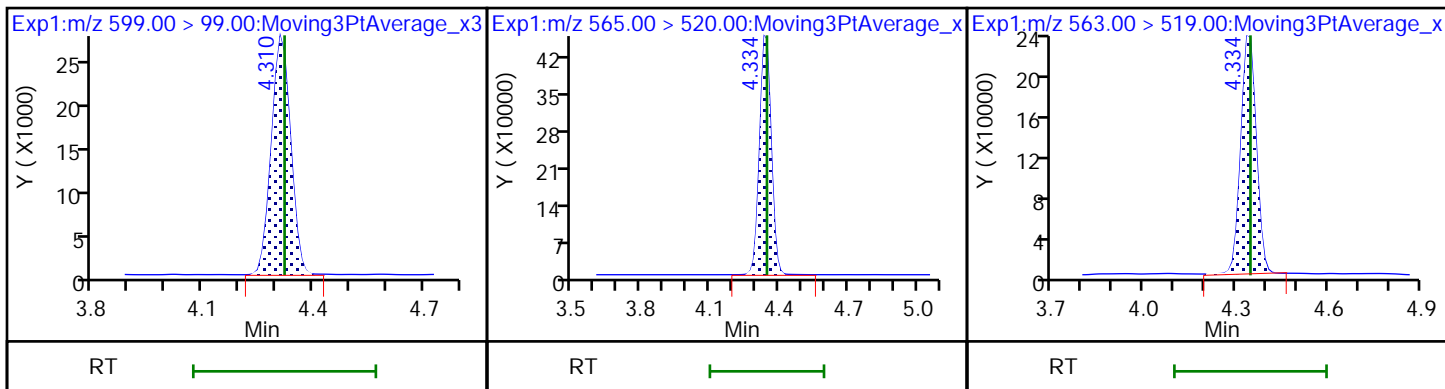
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

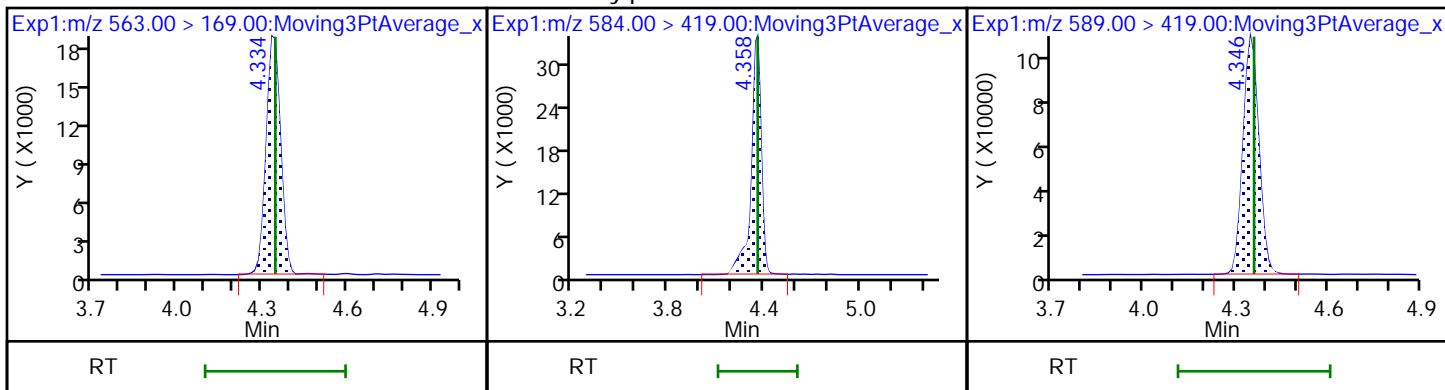
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid

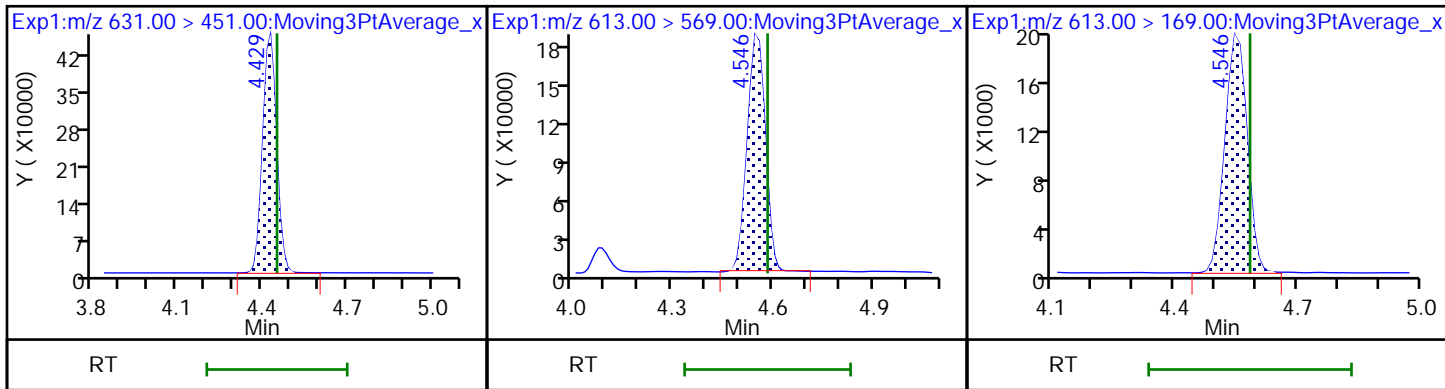
D 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

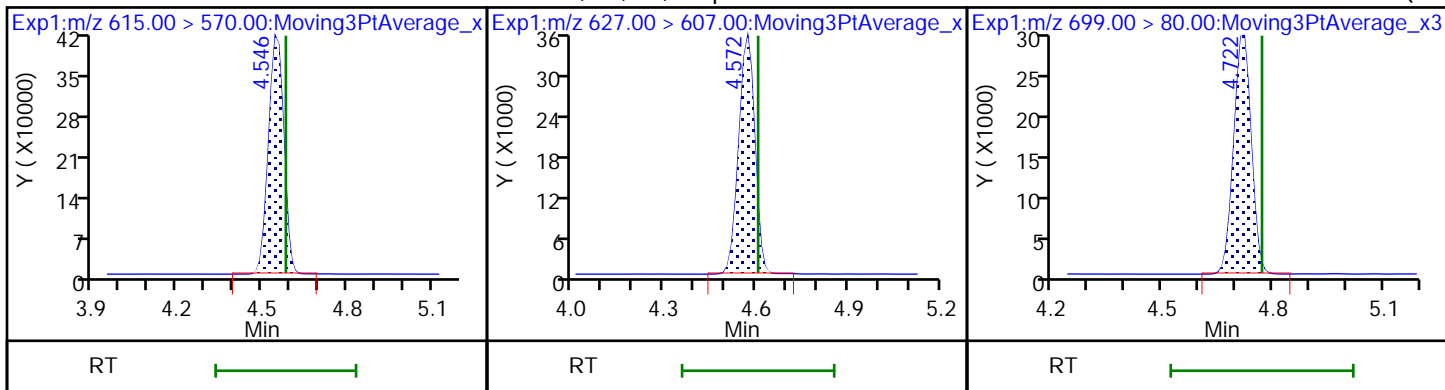
37 Perfluorododecanoic acid



D 36 13C2 PFD0A

74 1H,1H,2H,2H-perfluorododecanesul

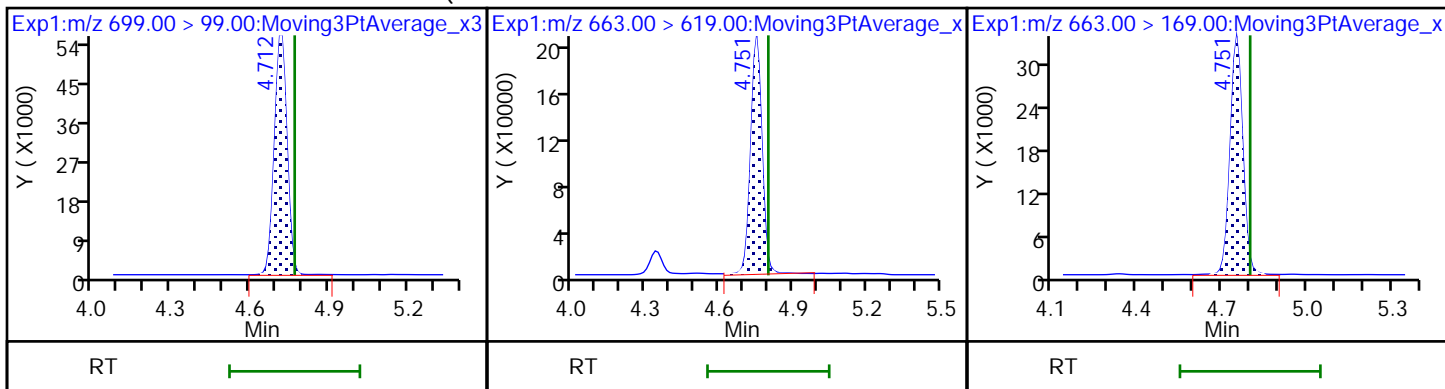
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

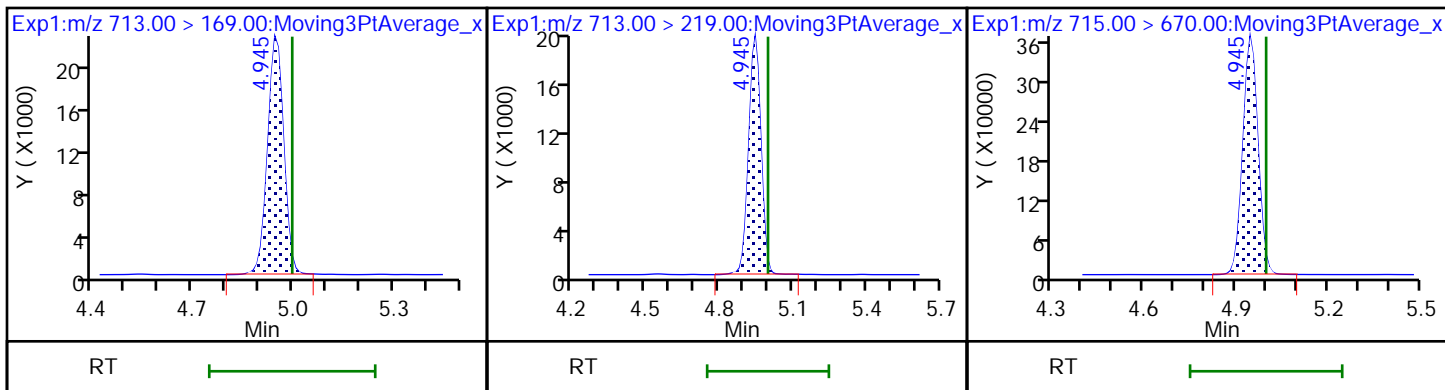
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

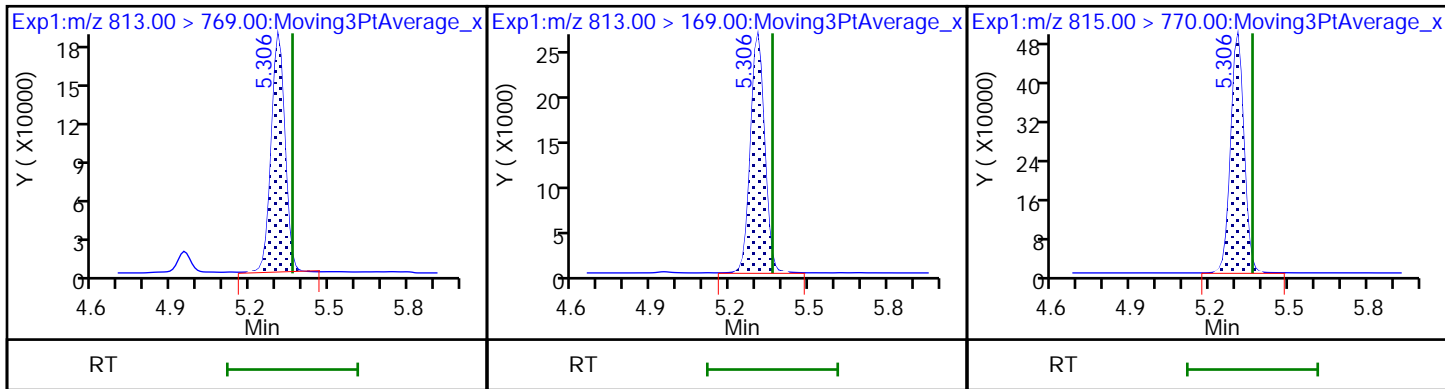
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

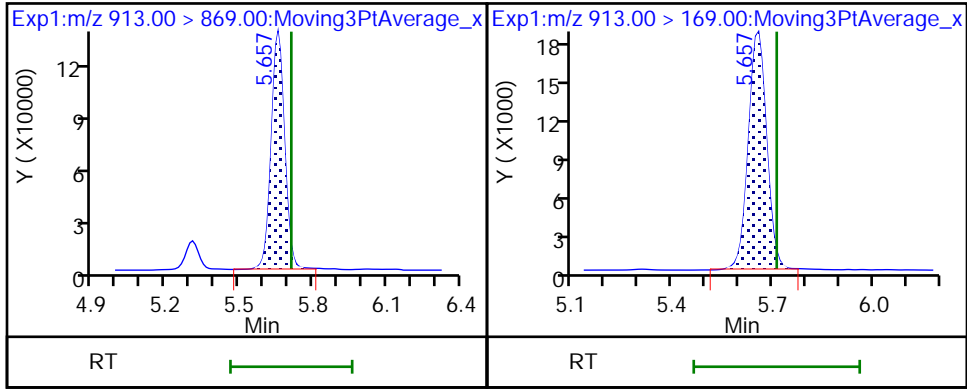
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



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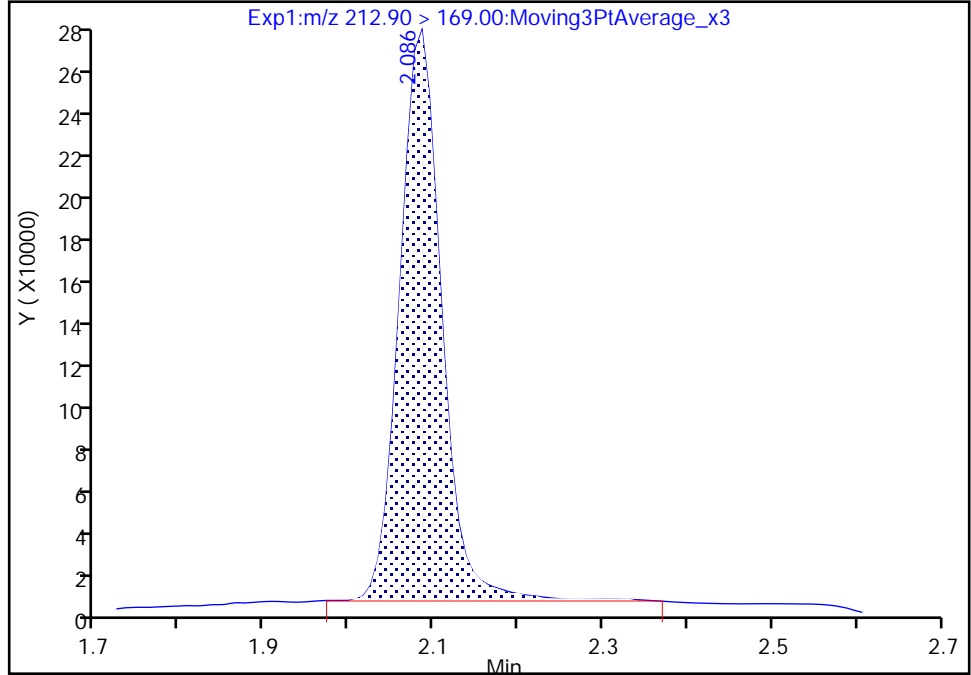
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

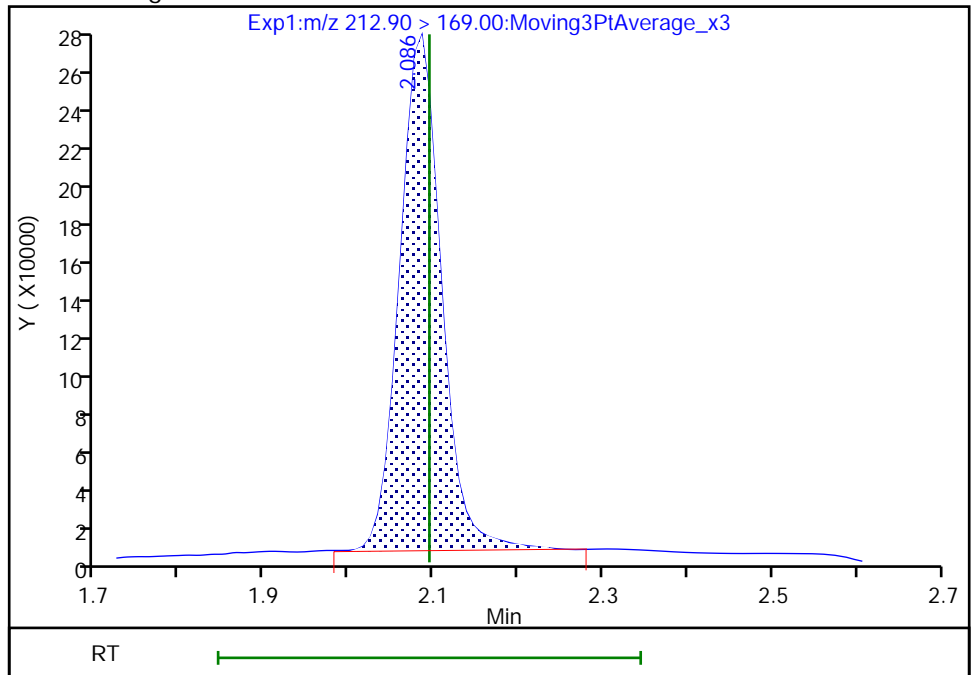
RT: 2.09
Area: 915516
Amount: 0.498775
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 904017
Amount: 0.529126
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:25:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

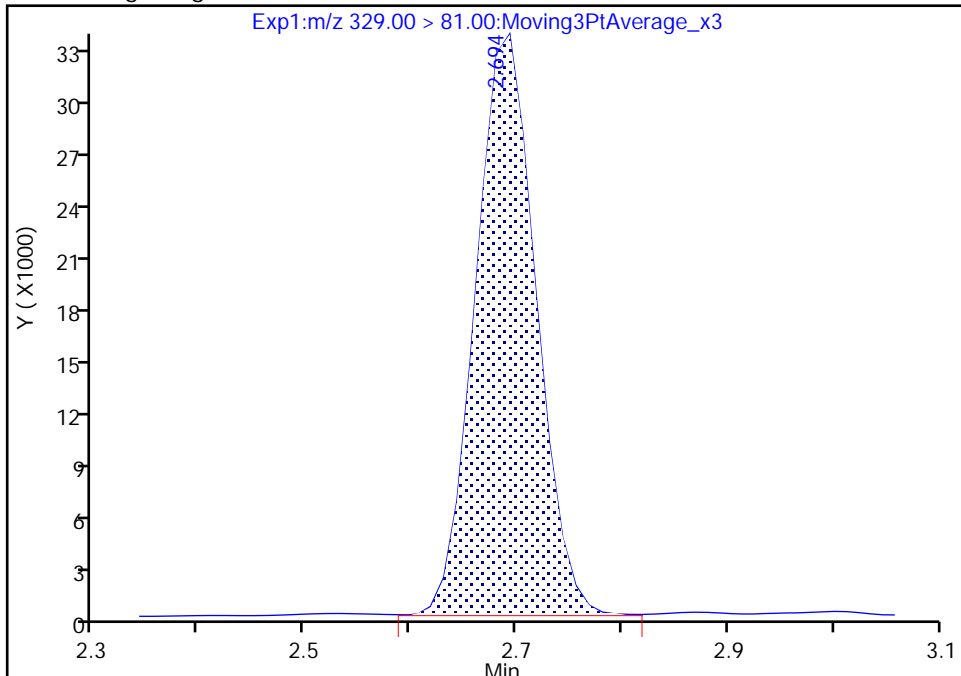
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

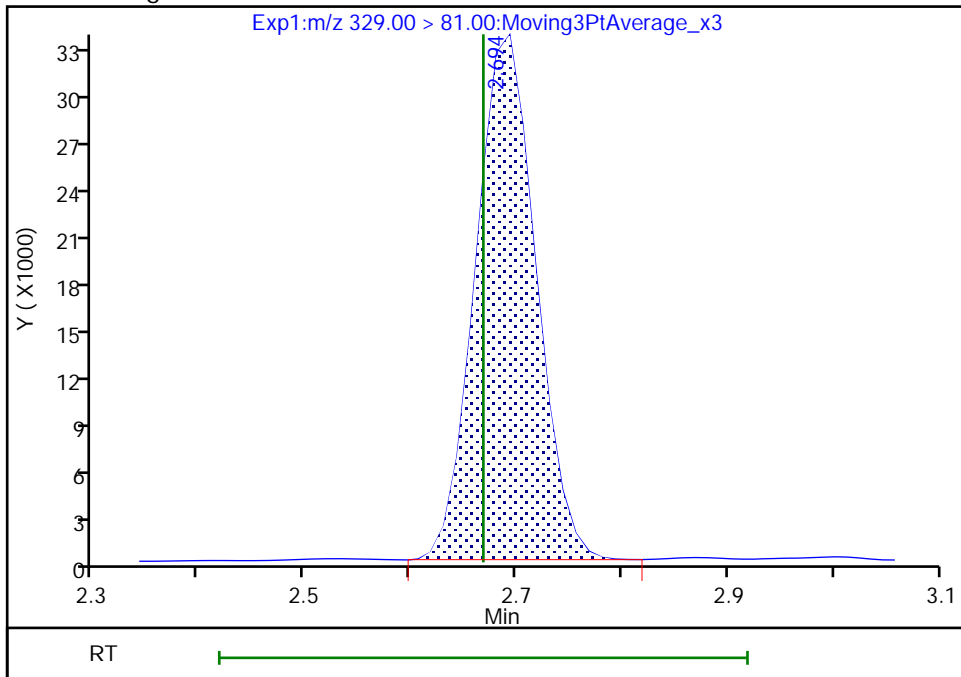
RT: 2.69
Area: 133245
Amount: 1.158042
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 132646
Amount: 1.152840
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:41:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

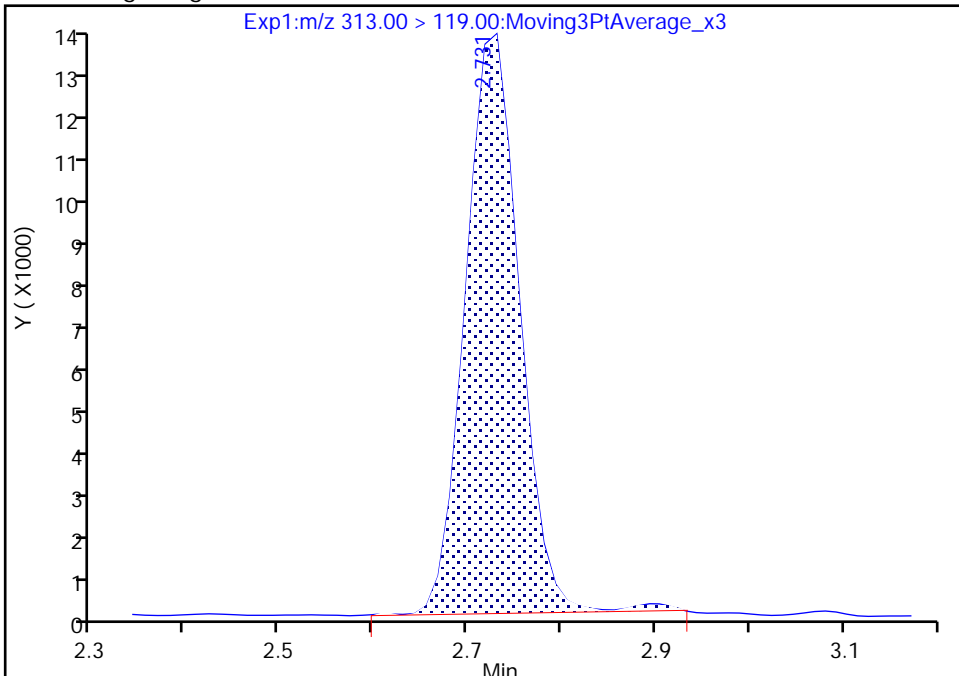
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

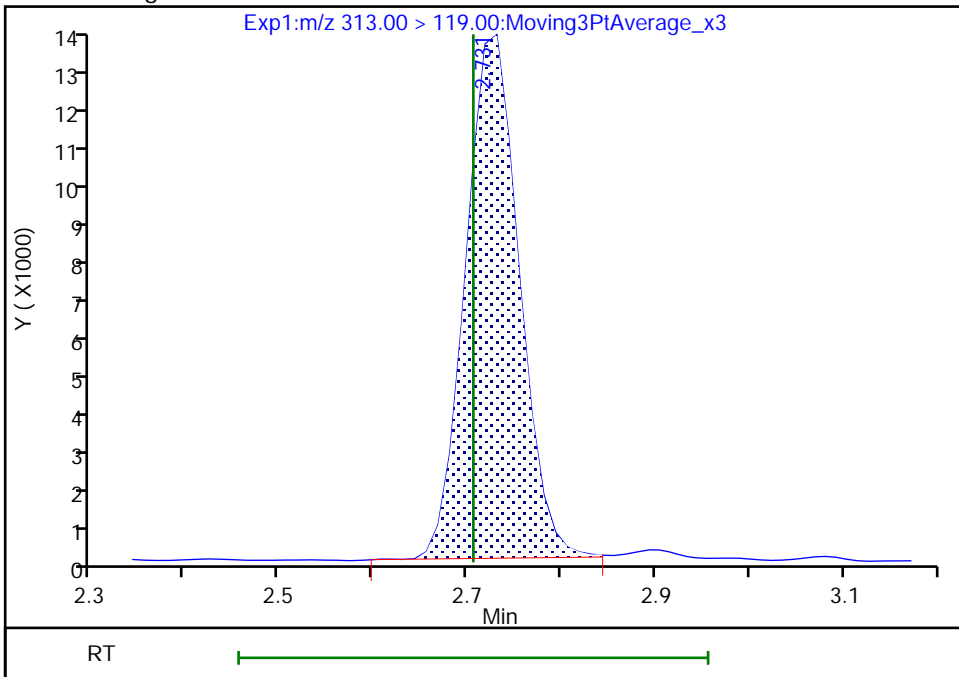
RT: 2.73
Area: 54440
Amount: 0.574335
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 53873
Amount: 0.574335
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:42:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

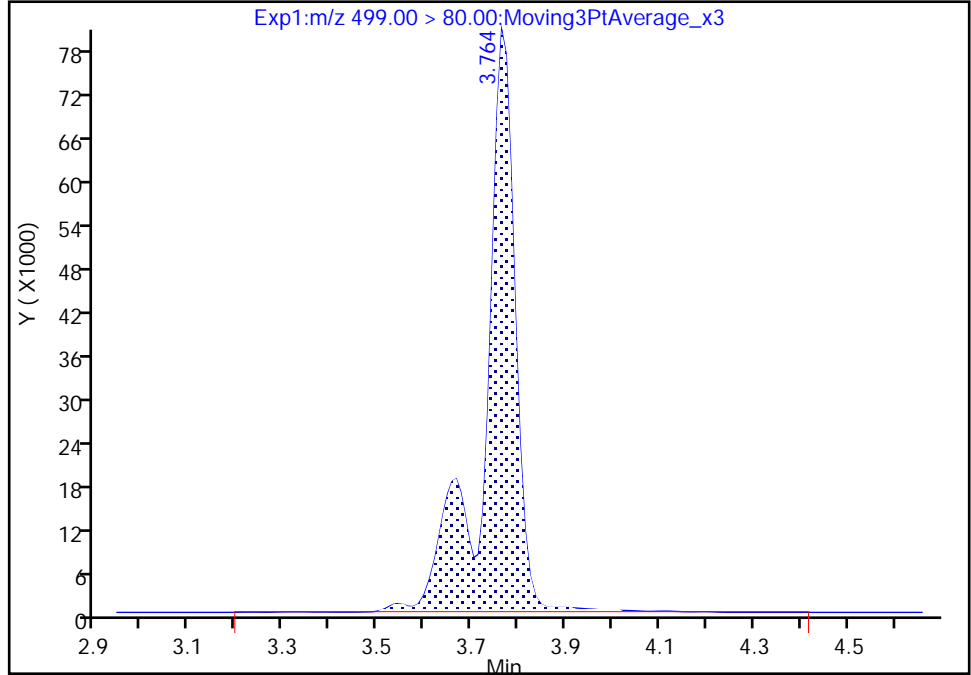
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

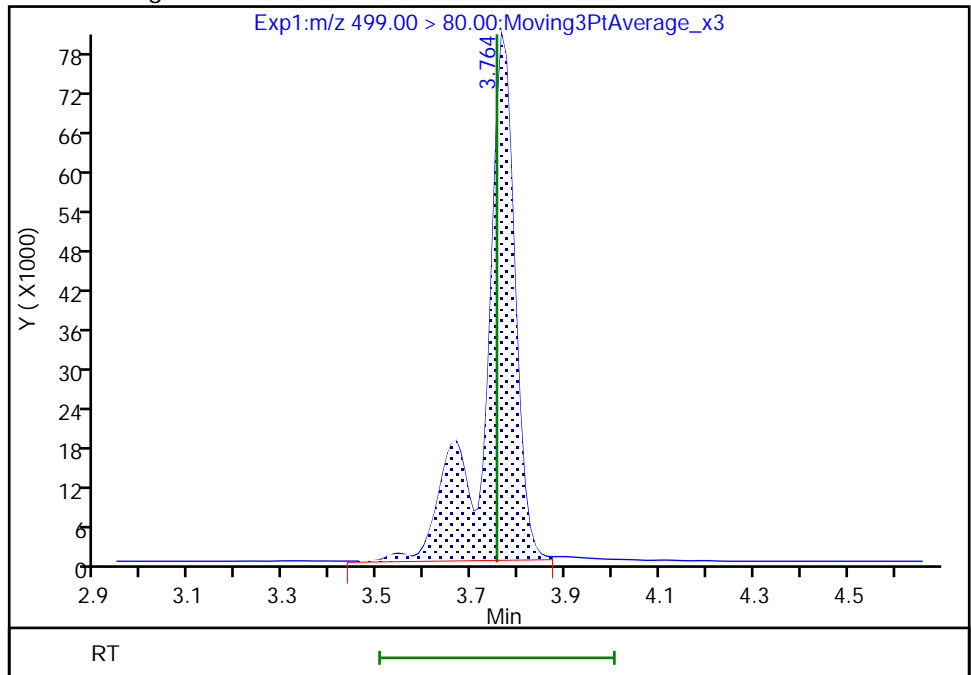
RT: 3.76
Area: 373514
Amount: 0.498406
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 365984
Amount: 0.491301
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:42:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

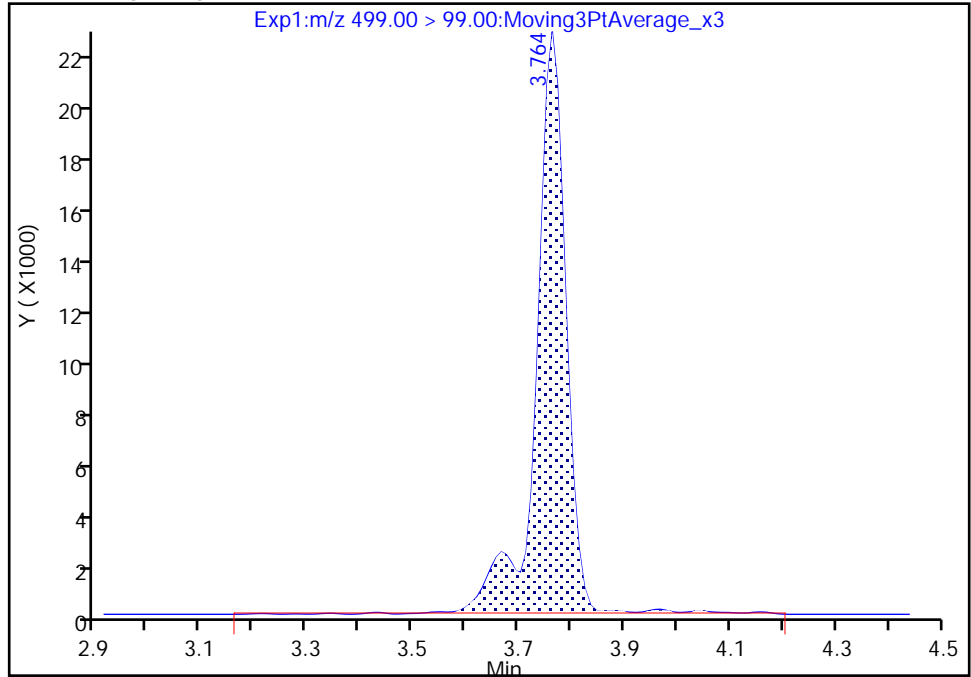
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

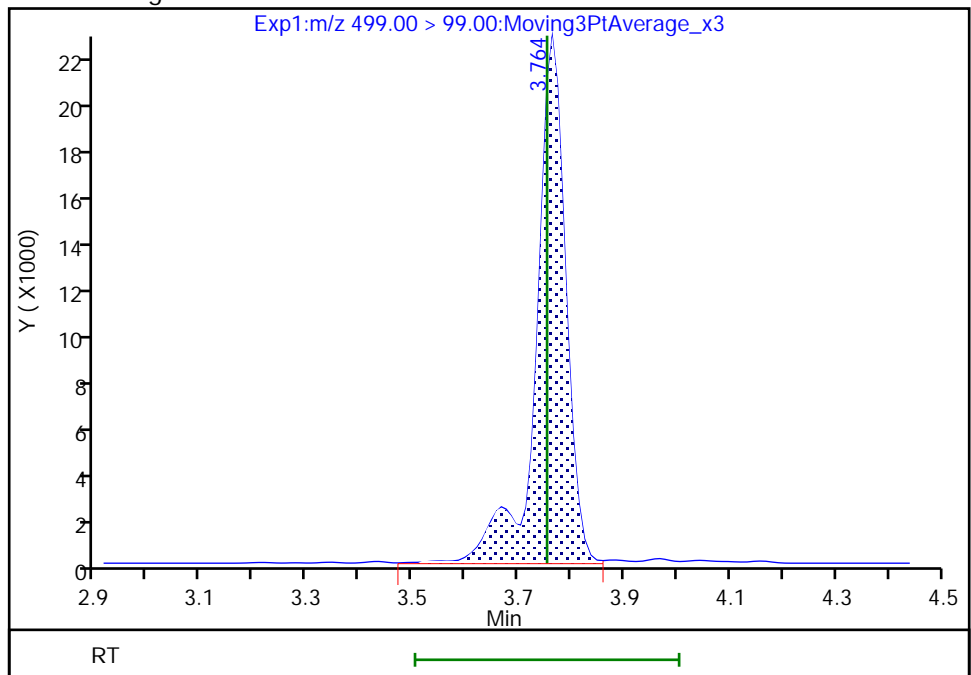
RT: 3.76
Area: 90910
Amount: 0.498406
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 88101
Amount: 0.491301
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:42:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

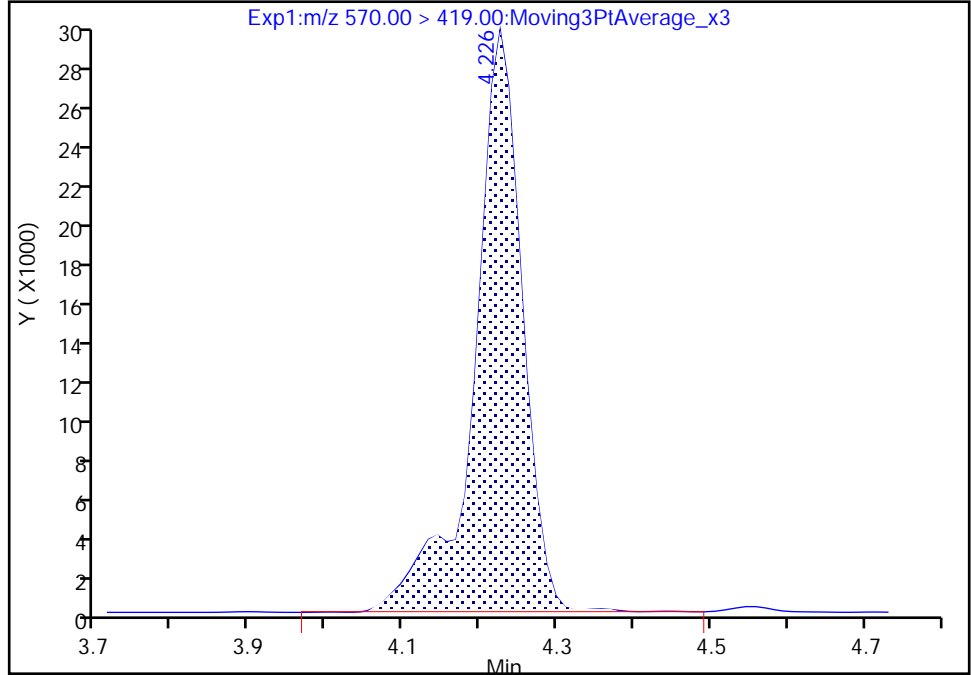
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

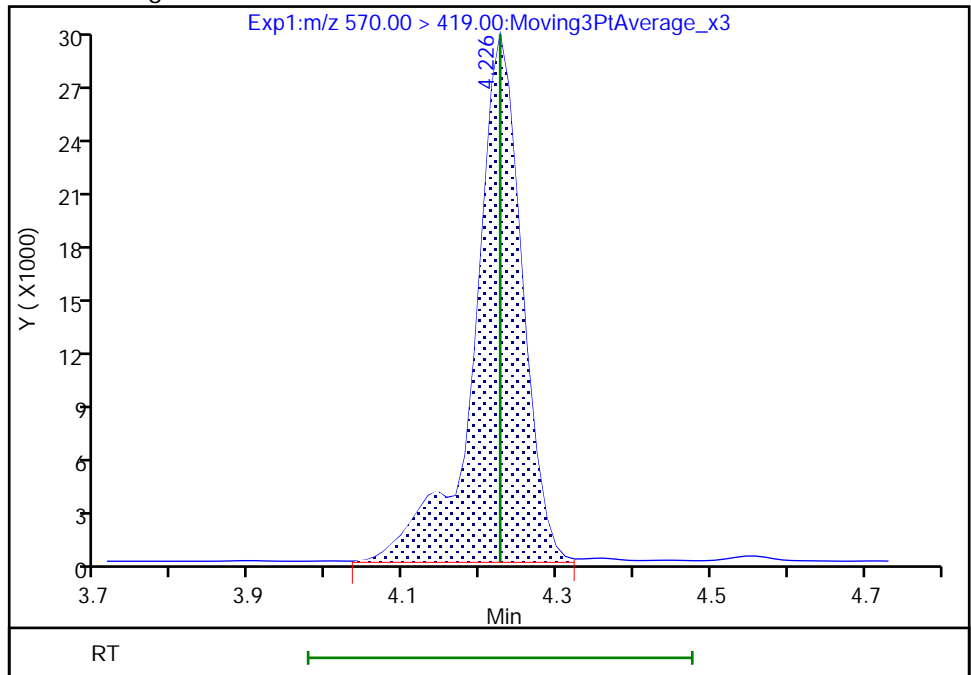
RT: 4.23
Area: 129571
Amount: 0.477269
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 128807
Amount: 0.475922
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:43:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

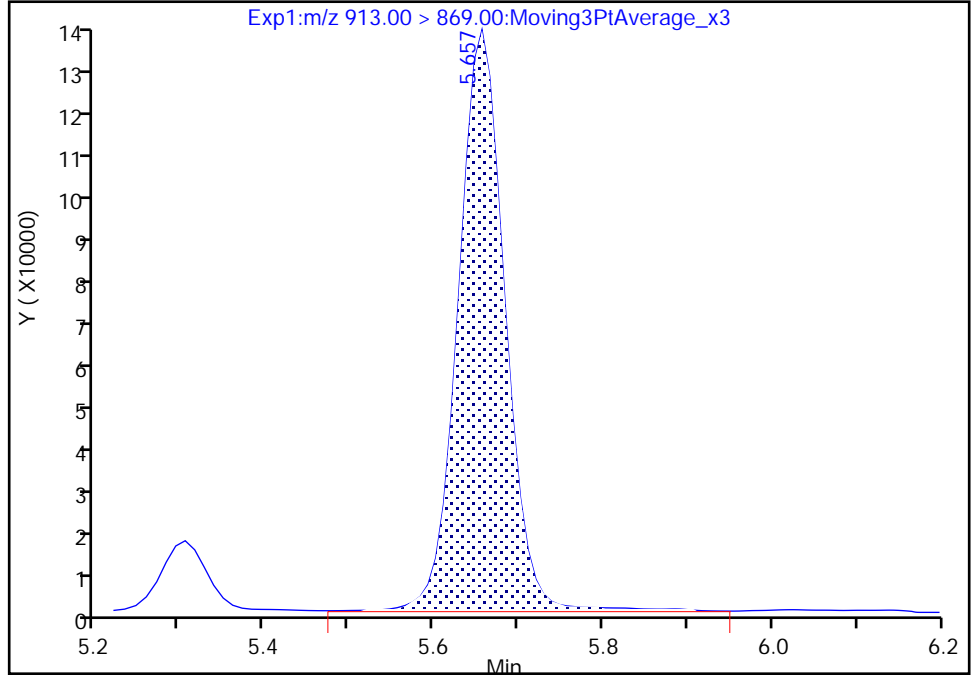
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

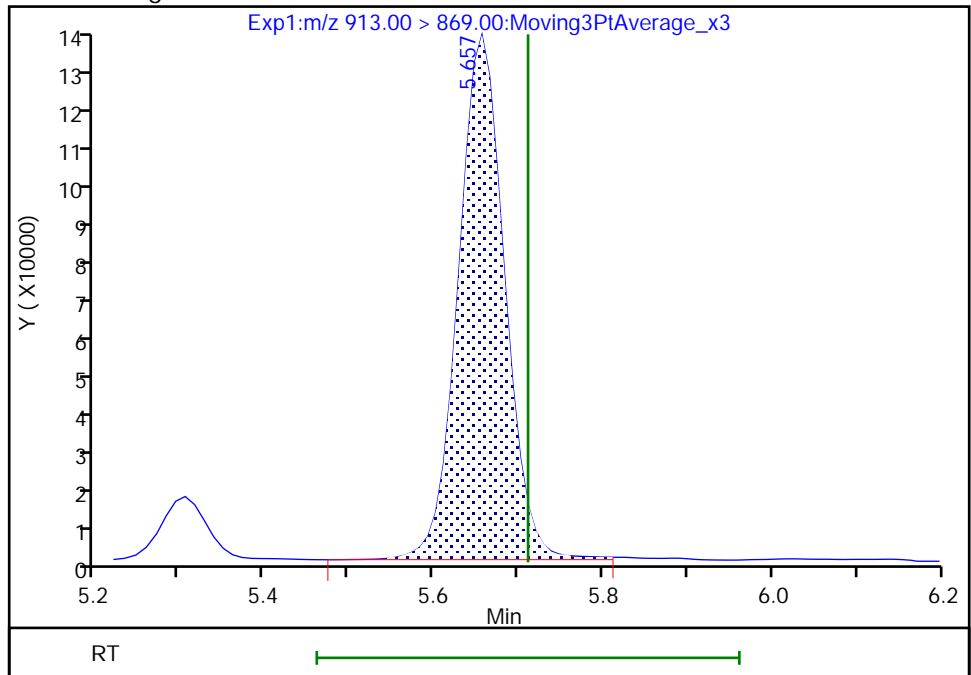
RT: 5.66
Area: 531403
Amount: 0.471300
Amount Units: ng/ml

Processing Integration Results



RT: 5.66
Area: 525342
Amount: 0.468418
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:43:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
 Lims ID: ICISAV
 Client ID:
 Sample Type: ICISAV Calib Level: 4
 Inject. Date: 11-Jan-2023 18:07:34 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0053969-008 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: Z1IP Date: 13-Jan-2023 12:16:50

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.094	2.094	0.0	0.611	2145155	1.17	93.2	14373	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.094	0.0	1.000	1680686	0.99		99.0	157	M
D 3 13C5 PFPeA	267.90 > 223.00	2.370	2.370	0.0	0.692	1830527	1.23	98.4	7042	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.370	2.370	0.0	1.000	1533220	0.9142		91.4	50.9	M
D 47 13C3 PFBS	301.90 > 80.00	2.384	2.384	0.0	0.696	1807983	1.11	95.2	160775	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.384	2.384	0.0	1.000	1399644	0.8400	Target=1.99	95.0	2299	
298.90 > 99.00	2.384	2.384	0.0	1.000	666430		2.10(0.99-2.98)	95.0	533	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.669	2.669	0.0	1.000	328155	0.8486	90.9	2543	
D 60 M2-4:2 FTS	329.00 > 81.00	2.669	2.669	0.0	0.779	152562	1.16	99.0	215	
D 7 13C2 PFHxA	315.00 > 270.00	2.694	2.694	0.0	0.786	1910330	1.24	98.9	13131	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.706	2.706	0.0	1.005	1433323	0.8902	Target=13.02	89.0	287	
313.00 > 119.00	2.694	2.706	-0.012	1.000	108894		13.16(6.51-19.53)	89.0	193	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.706	2.706	0.0	0.882	1207423	0.8828	Target=2.73	94.1	1620	
349.00 > 99.00	2.706	2.706	0.0	0.882	416005		2.90(1.37-4.10)	94.1	1317	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.806	2.806	0.0	1.000	243821	0.9669		96.7	3303	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.806	2.806	0.0	0.819	315350	1.18		94.2	3089	
D 11 18O2 PFHxS										
403.00 > 84.00	3.069	3.069	0.0	0.896	1307522	1.10		93.0	6642	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.069	3.069	0.0	1.000	958204	0.7895	Target=3.13	86.8	2085	
399.00 > 99.00	3.069	3.069	0.0	1.000	301335		3.18(1.57-4.70)	86.8	548	
D 9 13C4 PFHpA										
367.00 > 322.00	3.069	3.069	0.0	0.896	1788525	1.16		92.5	8986	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.069	3.069	0.0	1.000	1500383	0.9847	Target=3.92	98.5	272	
363.00 > 169.00	3.069	3.069	0.0	1.000	365521		4.10(1.96-5.88)	98.5	668	
77 DONA										
377.00 > 251.00	3.104	3.104	0.0	0.827	3494924	0.8949	Target=3.04	95.0	2370	
377.00 > 85.00	3.104	3.104	0.0	0.827	1180453		2.96(1.52-4.56)	95.0	2132	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.417	3.417	0.0	0.997	208801	1.11		93.9	970	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.417	3.417	0.0	1.000	368264	0.9146		96.5	512	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.417	3.417	0.0	0.910	839730	0.8474	Target=4.66	89.0	3638	
449.00 > 99.00	3.417	3.417	0.0	0.910	182774		4.59(2.33-6.99)	89.0	1145	
D 14 13C4 PFOA										
417.00 > 372.00	3.426	3.426	0.0	1.000	2017935	1.23		98.5	13600	
* 62 13C2 PFOA										
415.00 > 370.00	3.426	3.426	0.0		2000878	1.25			6249	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.426	3.426	0.0	1.000	1483412	0.8443	Target=3.01	84.4	105	M
413.00 > 169.00	3.426	3.426	0.0	1.000	547243		2.71(1.50-4.51)	84.4	1098	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.096	813855	1.13		94.3	3970	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	686438	0.8297	Target=4.13	89.4	746	M
499.00 > 99.00	3.754	3.754	0.0	1.000	162303		4.23(2.07-6.20)	89.4	543	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.774	0.0	1.000	1427691	0.9155	Target=8.58	91.5	252	
463.00 > 169.00	3.774	3.774	0.0	1.000	162574		8.78(4.29-12.87)	91.5	1778	
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.774	0.0	1.101	1908294	1.19		95.6	7856	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	1587156	0.8036		86.2	4936	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.043	4.043	0.0	1.077	635724	0.9252	Target=2.32	96.4	5246	
549.00 > 99.00	4.043	4.043	0.0	1.077	268638		2.37(1.16-3.48)	96.4	1553	
D 23 13C2 PFDA										
515.00 > 470.00	4.074	4.074	0.0	1.189	1794868	1.10		87.6	5242	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.074	4.074	0.0	1.000	1508795	0.9827	Target=10.61	98.3	518	
513.00 > 169.00	4.074	4.074	0.0	1.000	135593		11.13(5.30-15.91)	98.3	520	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.085	4.085	0.0	1.192	244119	1.04		86.9	1360	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.085	4.085	0.0	1.000	323636	0.8751		91.4	3421	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	1146375	0.9243		92.4	1853	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.210	1541478	1.16		92.6	3219	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.233	391757	1.22		97.3	1072	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	260489	0.9218		92.2	646	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	481722	0.9404	Target=2.46	97.6	6608	
599.00 > 99.00	4.322	4.322	0.0	1.151	196615		2.45(1.23-3.69)	97.6	2018	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.268	1802127	1.27		102	10311	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	1251894	0.7954	Target=11.25	79.5	354	M
563.00 > 169.00	4.346	4.346	0.0	1.000	121162		10.33(5.62-16.87)	79.5	1264	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.000	269901	0.9064		90.6	1203	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.272	400616	1.29		104	891	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.186	2812735	0.9203		97.7	4325	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.584	4.584	0.0	1.000	1191739	0.9678	Target=8.15	96.8	146	
613.00 > 169.00	4.584	4.584	0.0	1.000	147104		8.10(4.08-12.23)	96.8	1444	
D 36 13C2 PFDaA										
615.00 > 570.00	4.584	4.584	0.0	1.338	1511917	1.07		85.3	2889	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.606	4.606	0.0	1.128	238306	1.02		106	2371	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.770	4.770	0.0	1.271	192076	0.9231	Target=0.53	95.4	2283	
699.00 > 99.00	4.760	4.770	-0.010	1.268	373263		0.51(0.26-0.79)	95.4	3920	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.799	4.799	0.0	1.047	1250877	1.02	Target=6.29	102	137	
663.00 > 169.00	4.799	4.799	0.0	1.047	206340		6.06(3.14-9.43)	102	1485	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	130430	0.8828	Target=0.93	88.3	1825	
713.00 > 219.00	4.998	4.998	0.0	1.000	156673		0.83(0.46-1.39)	88.3	3090	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.459	1479086	1.21		97.0	6332	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.362	5.362	0.0	1.000	1324223	0.9791	Target=6.52	97.9	173	
813.00 > 169.00	5.362	5.362	0.0	1.000	196562		6.74(3.26-9.77)	97.9	2042	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.362	5.362	0.0	1.565	1823724	1.22		97.6	5256	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.711	0.0	1.065	1106340	0.9375	Target=7.39	93.8	164	M
913.00 > 169.00	5.702	5.711	-0.009	1.063	158248		6.99(3.69-11.08)	93.8	958	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00036

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d

Injection Date: 11-Jan-2023 18:07:34

Instrument ID: LC812

Lims ID: ICISAV

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

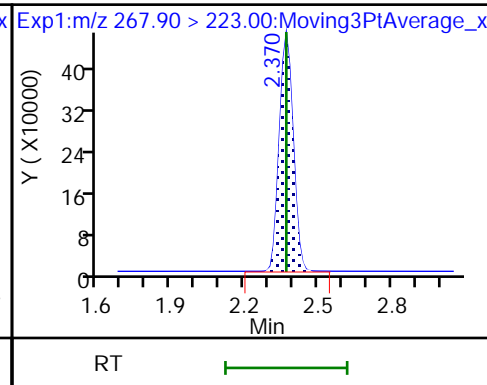
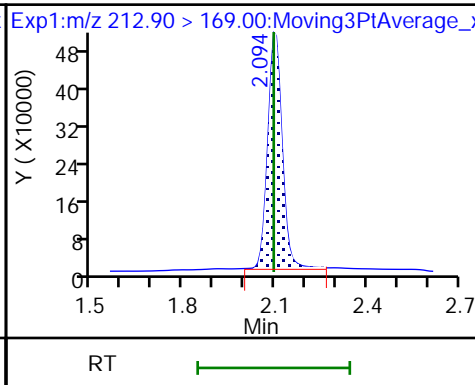
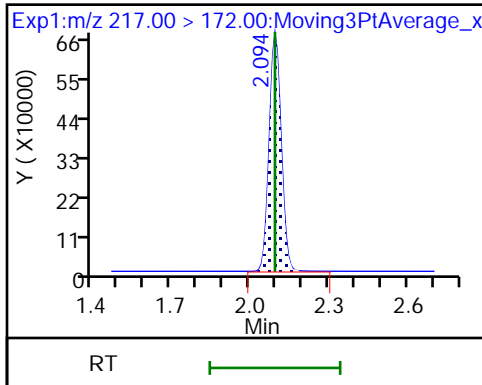
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

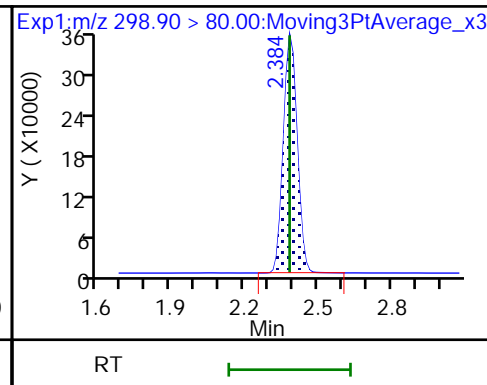
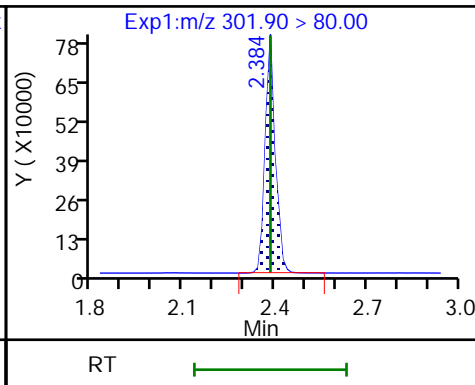
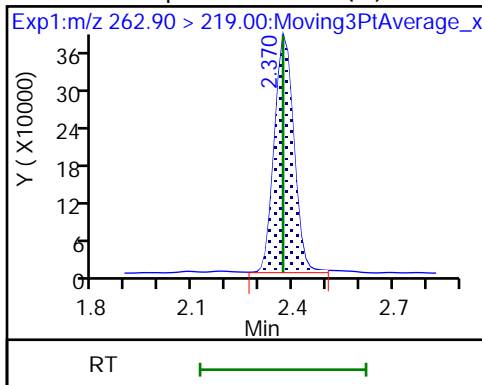
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

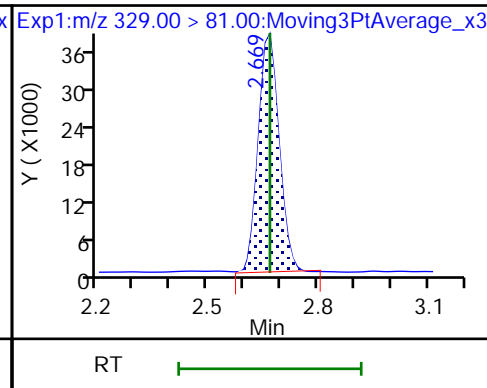
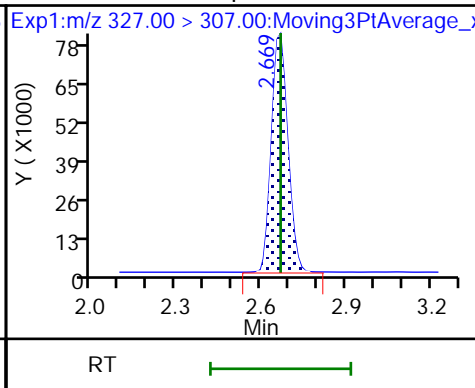
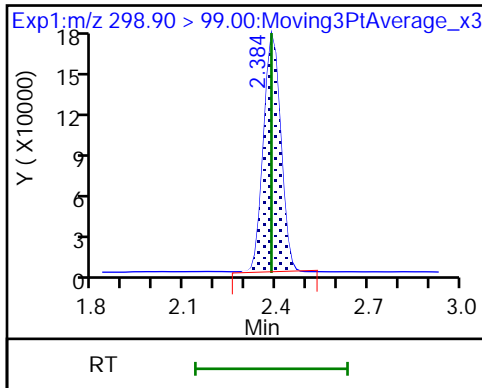
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

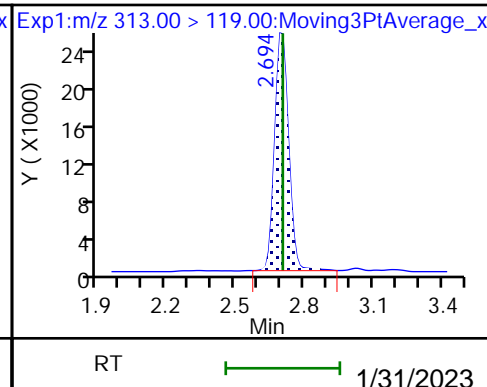
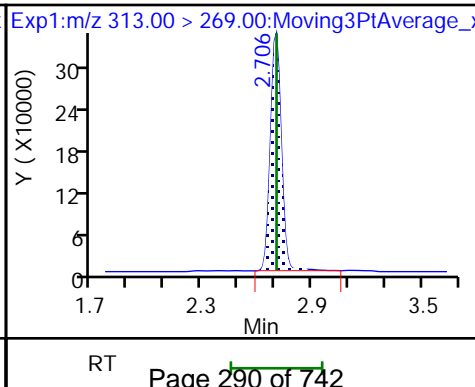
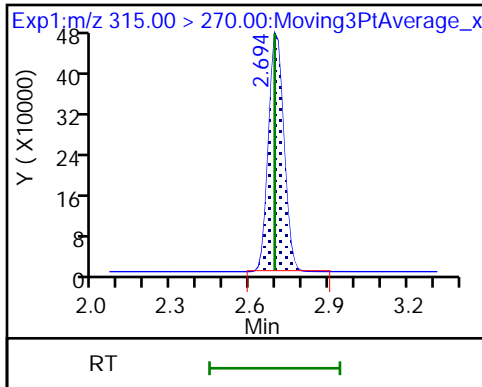
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

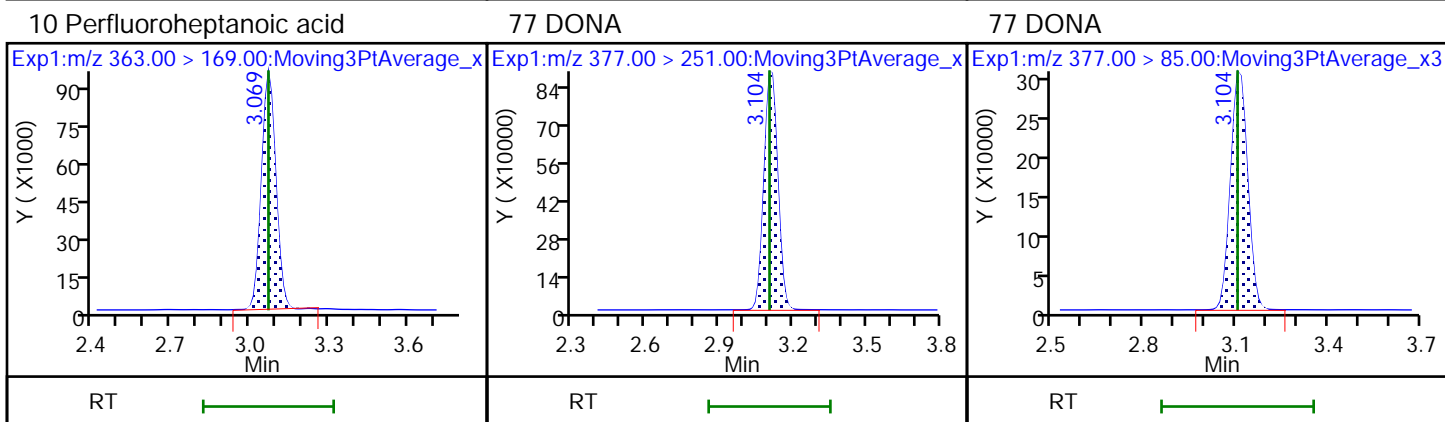
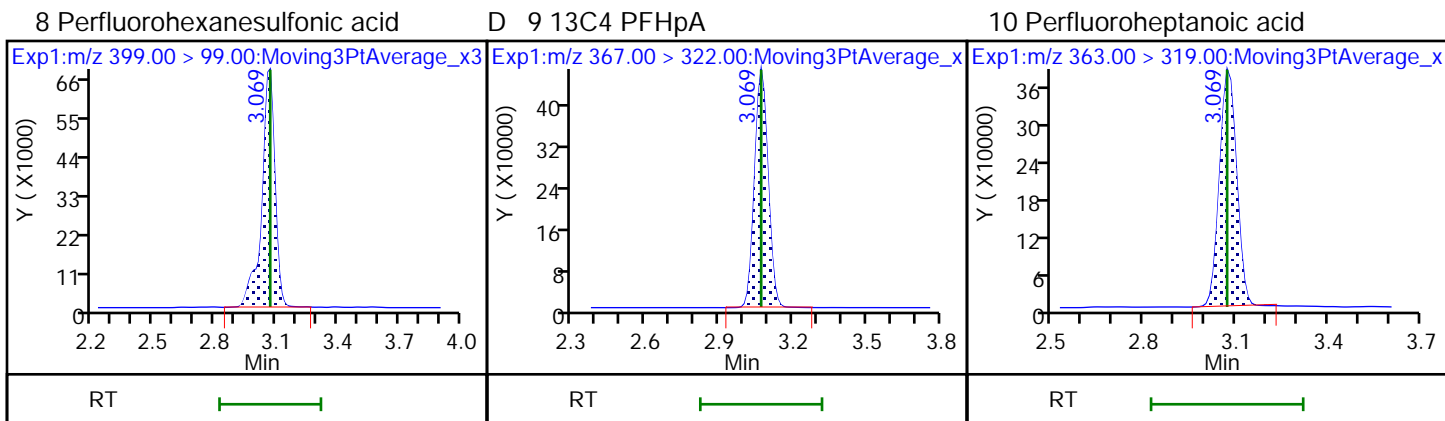
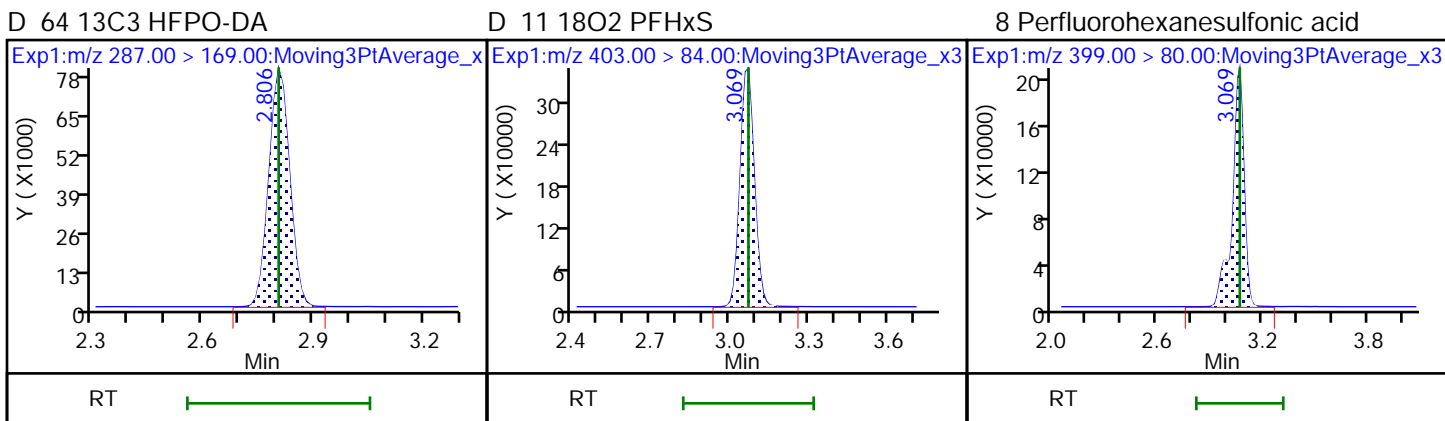
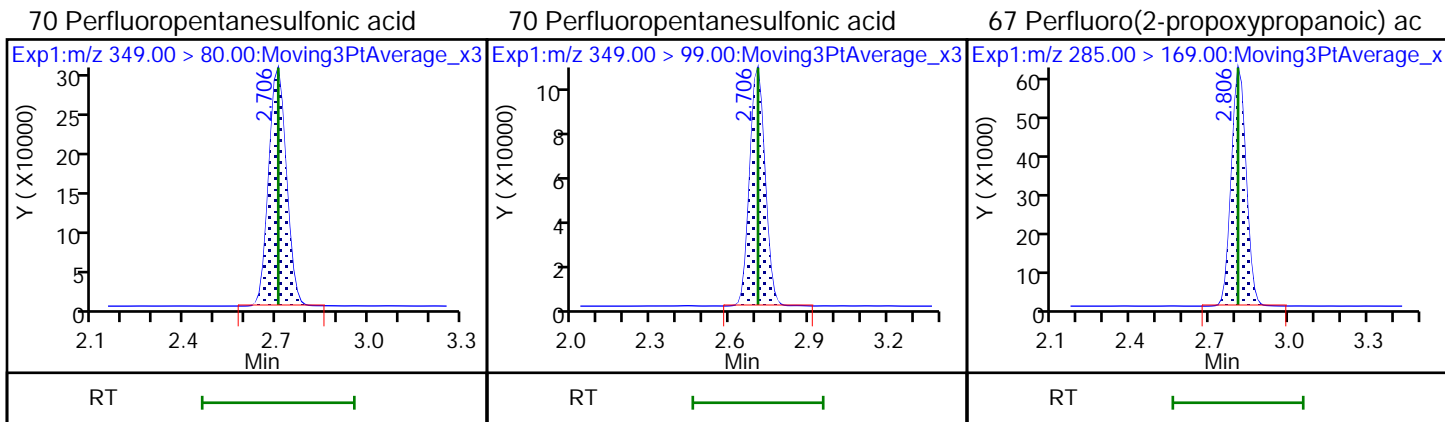


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

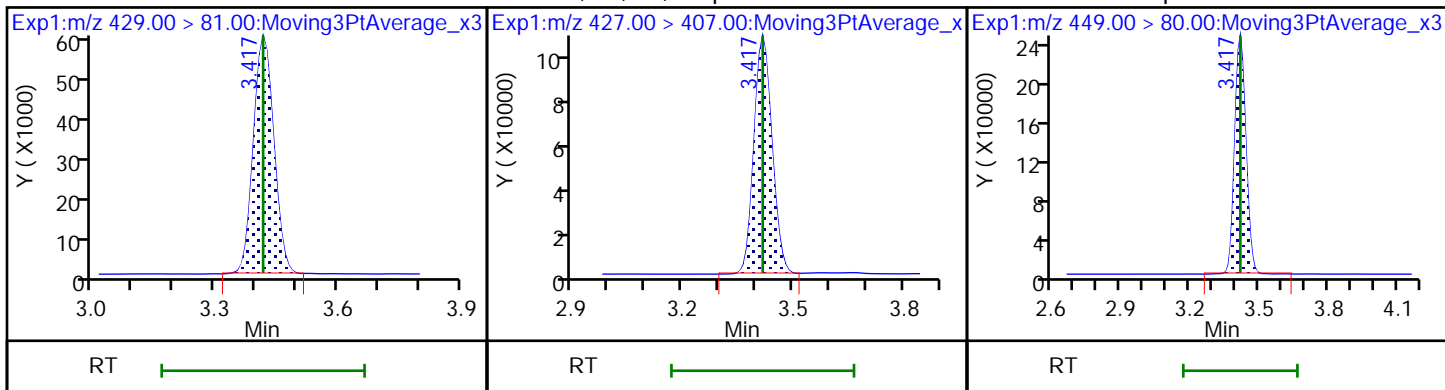




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

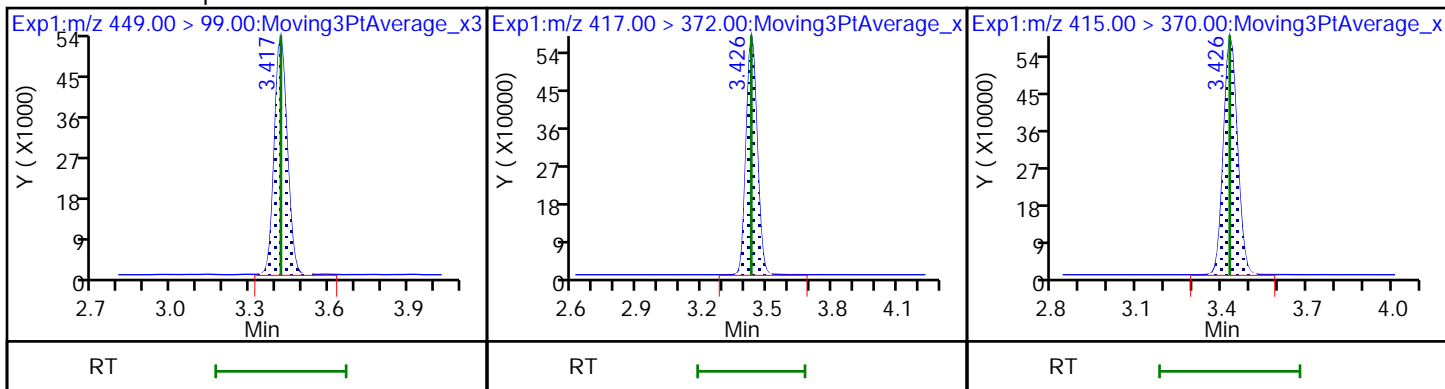
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

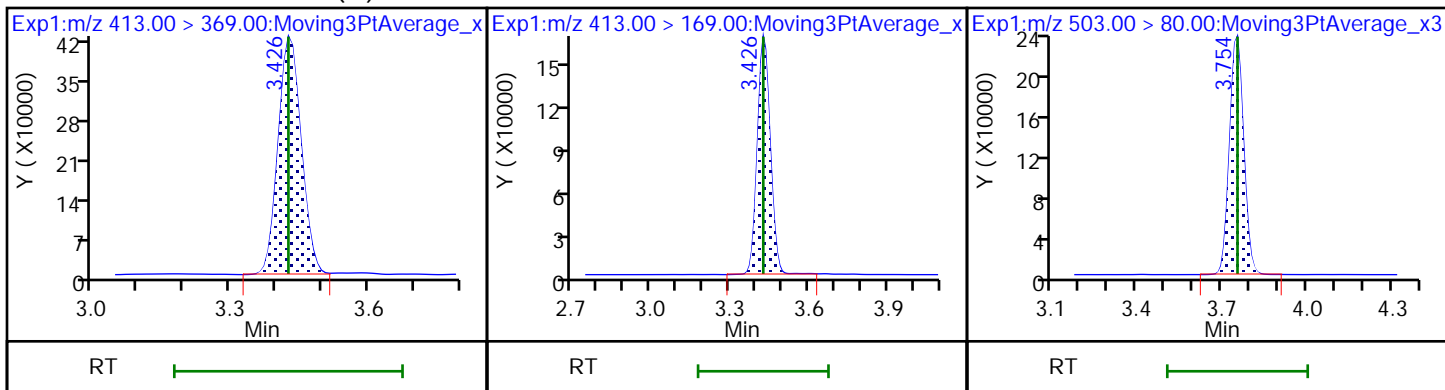
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

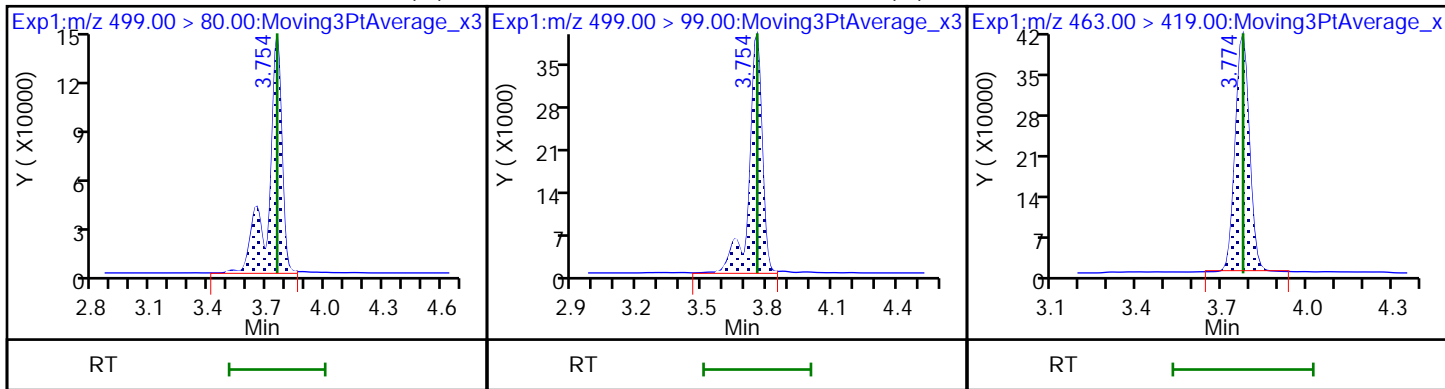
D 18 13C4 PFOS

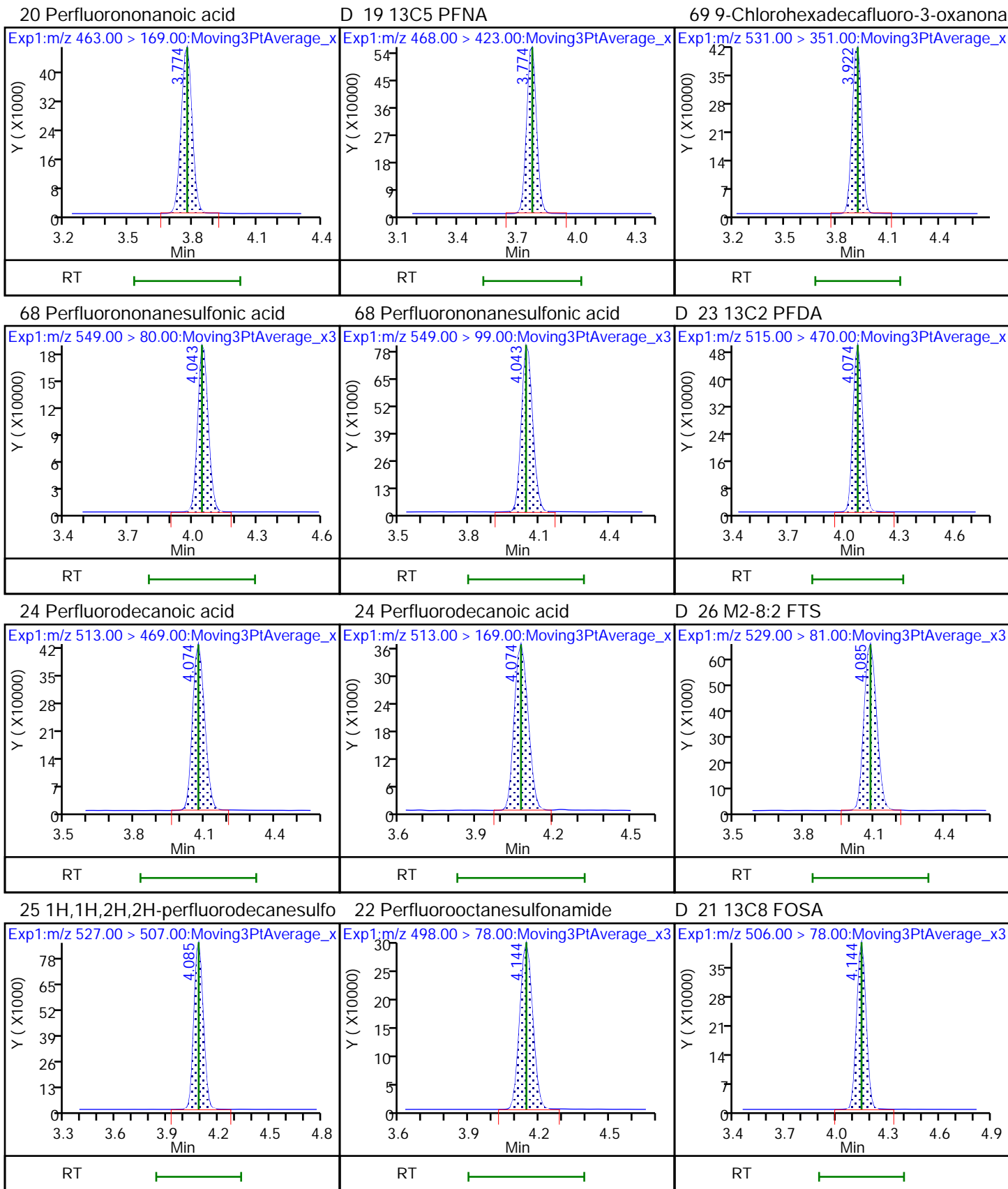


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

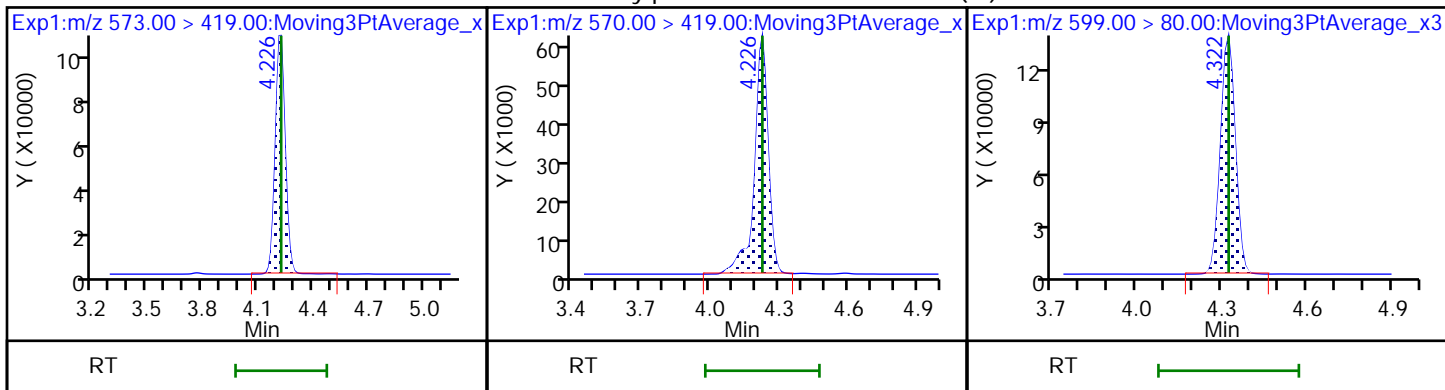
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

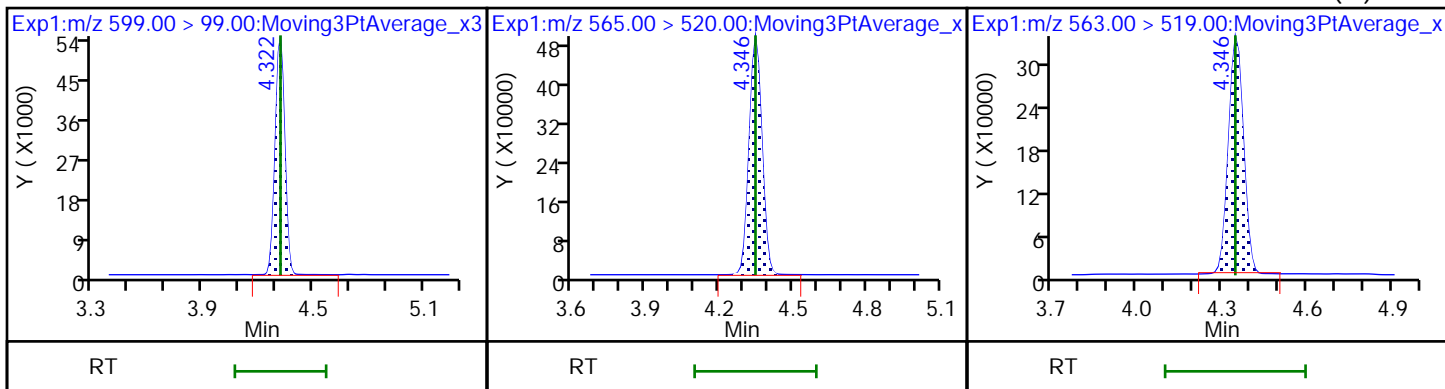
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

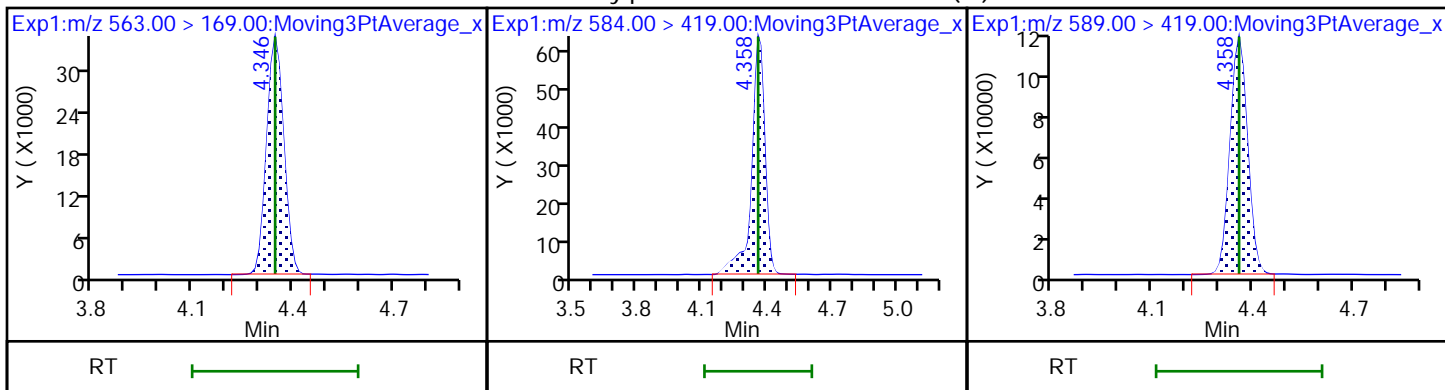
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

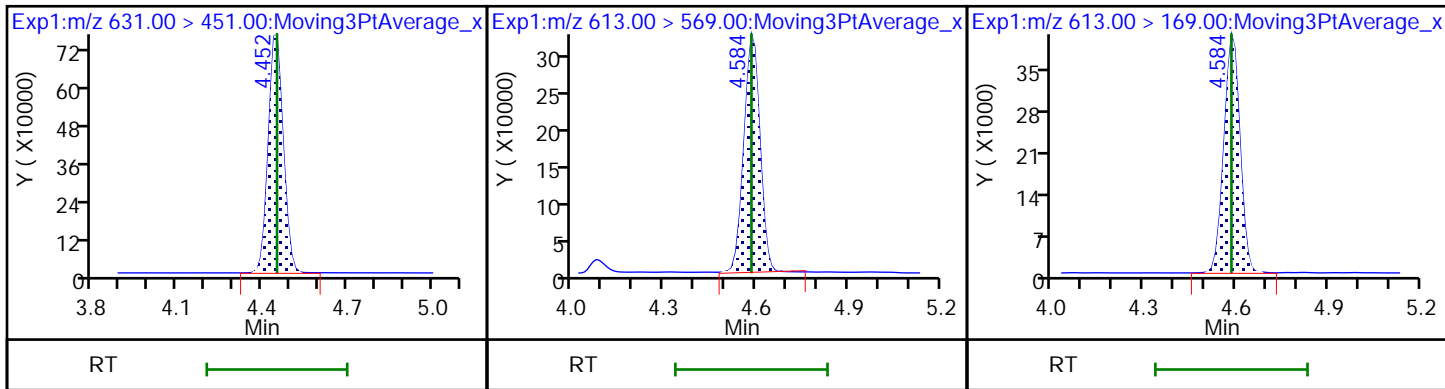
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

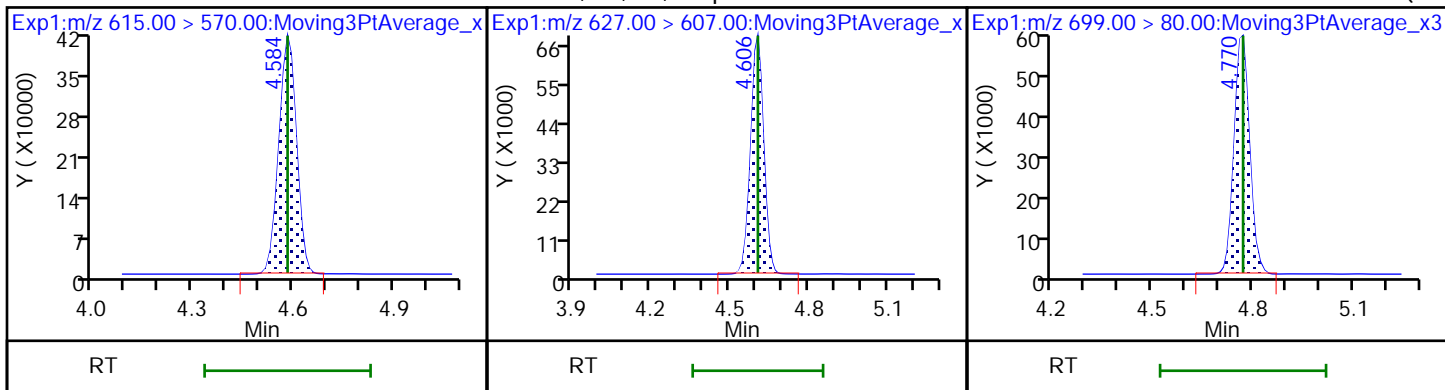
37 Perfluorododecanoic acid



D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul

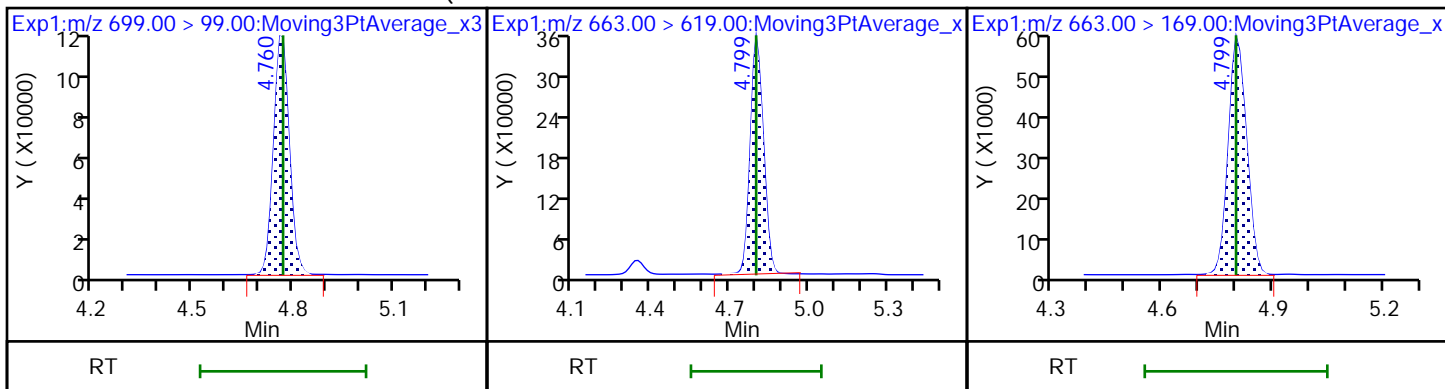
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

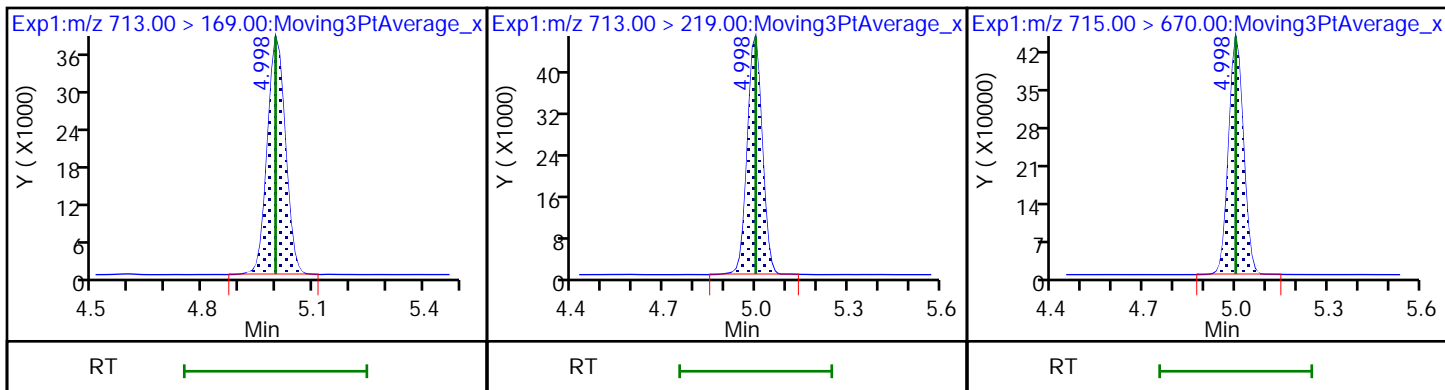
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

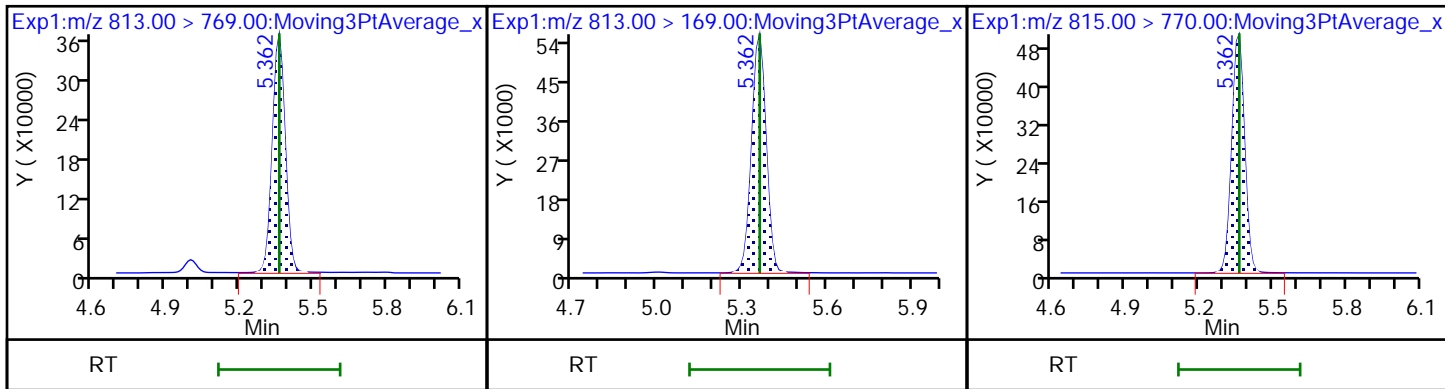
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

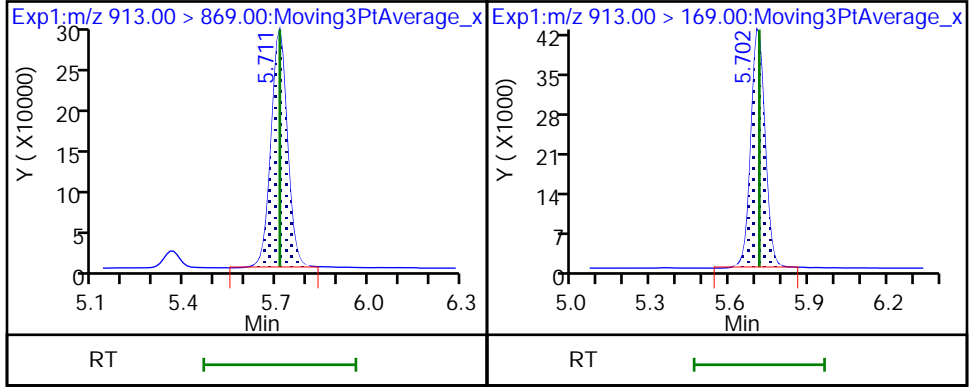
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



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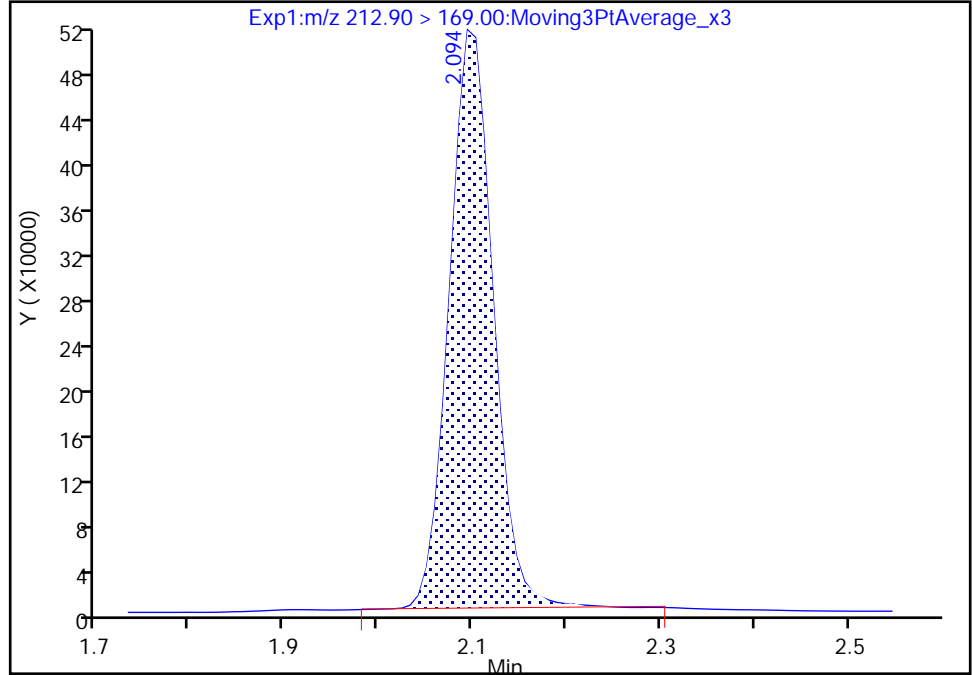
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Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

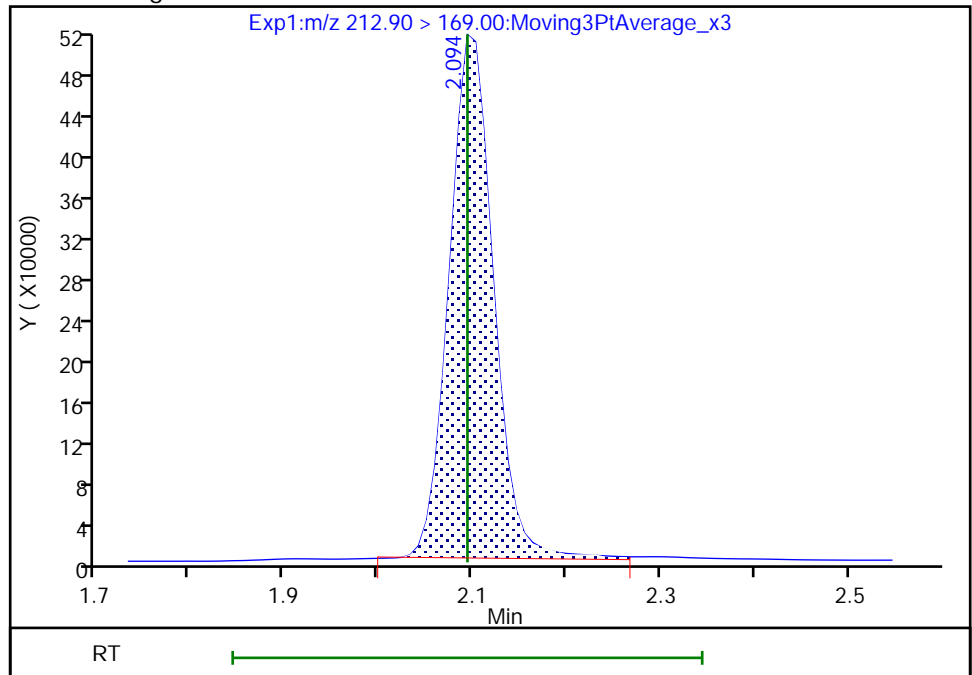
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Area: 1669844
Amount: 0.885364
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1680686
Amount: 0.990320
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:26:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 297 of 742

Eurofins Burlington

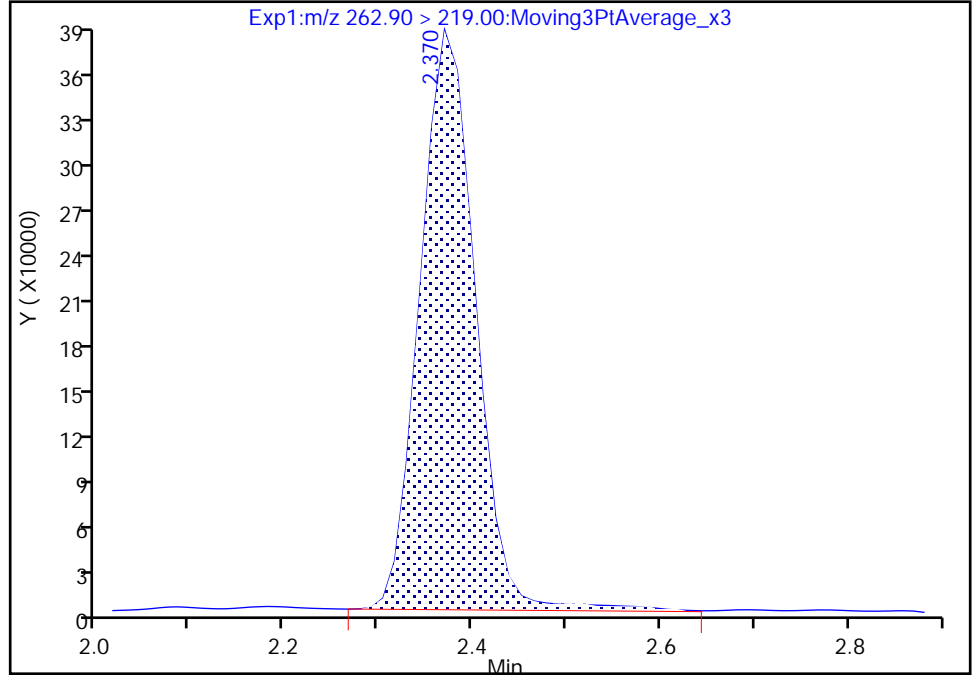
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Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

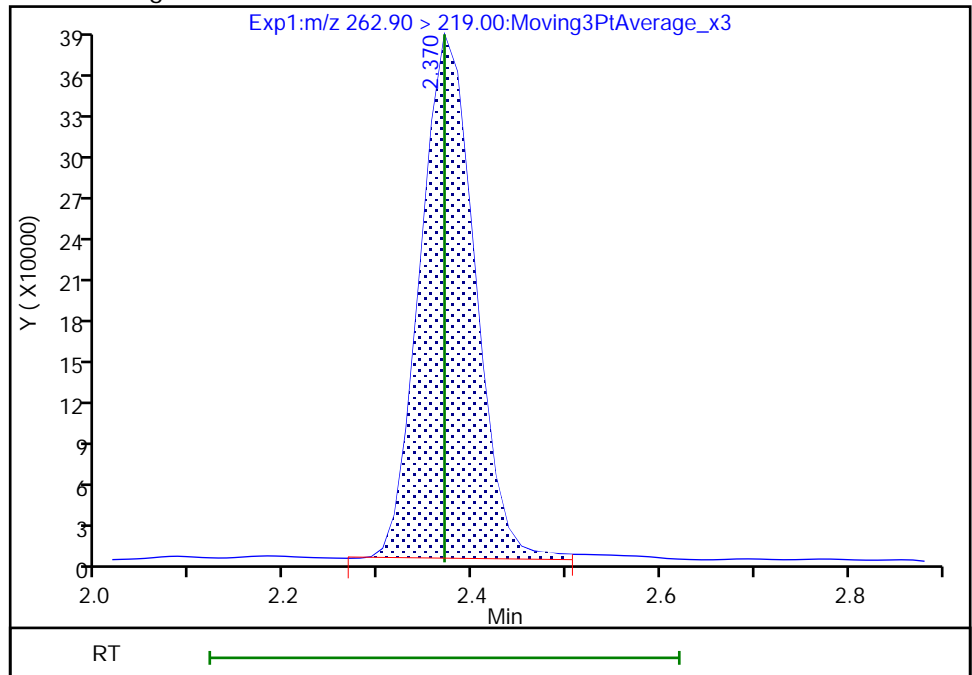
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Area: 1550411
Amount: 0.903005
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 1533220
Amount: 0.914182
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:31:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

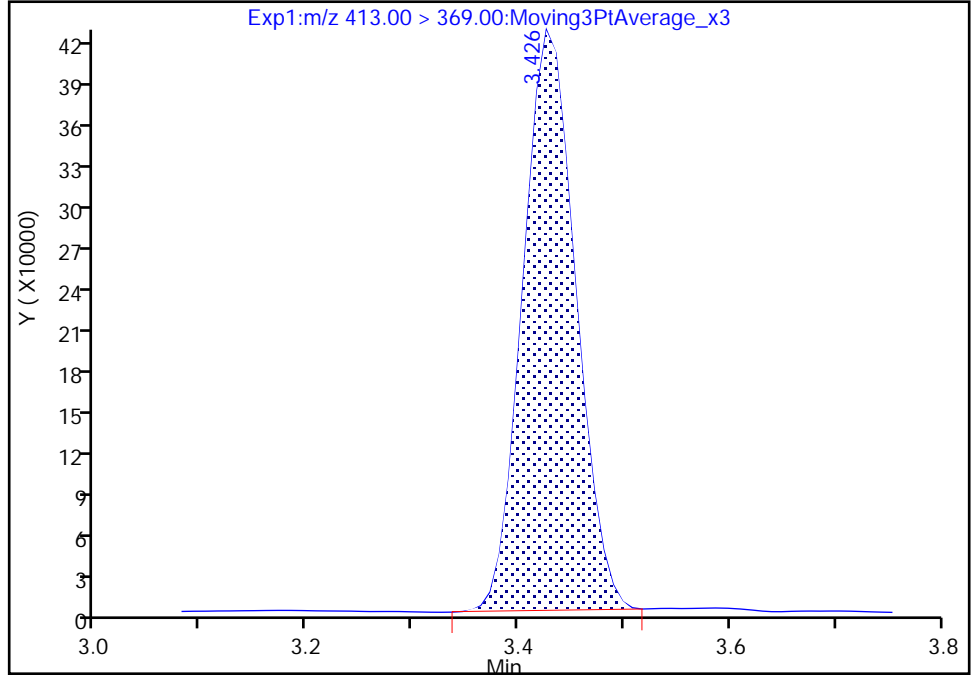
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Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

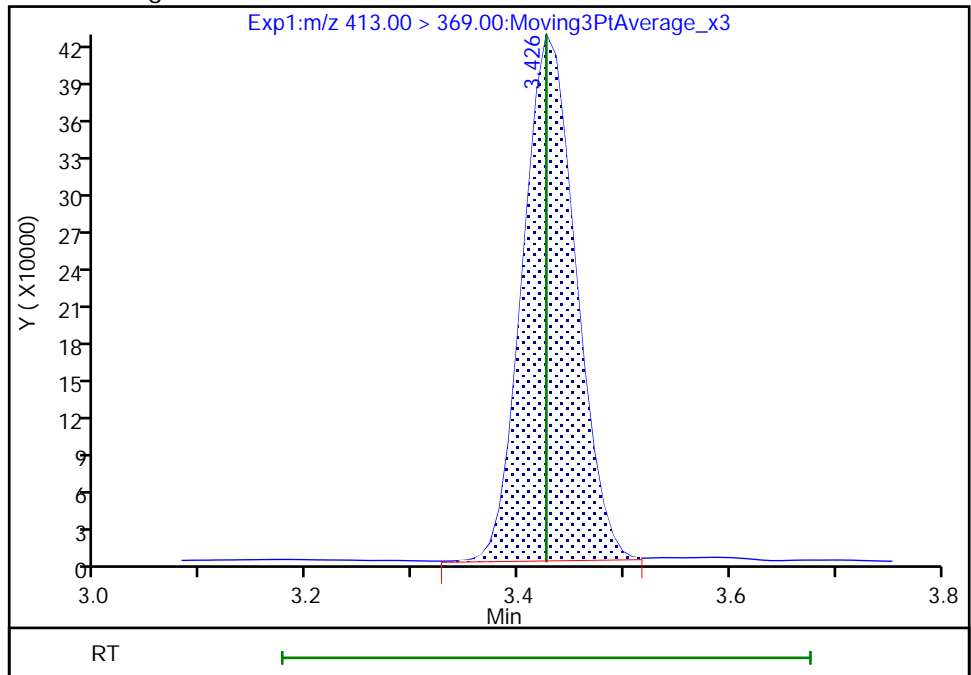
RT: 3.43
Area: 1472148
Amount: 0.838833
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1483412
Amount: 0.844348
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:05:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

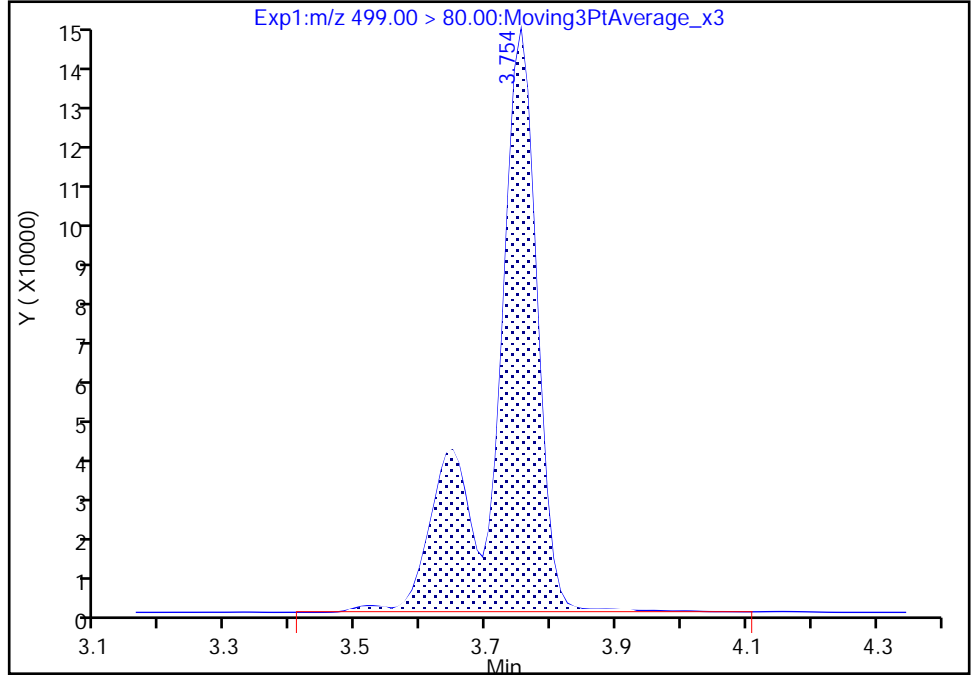
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Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

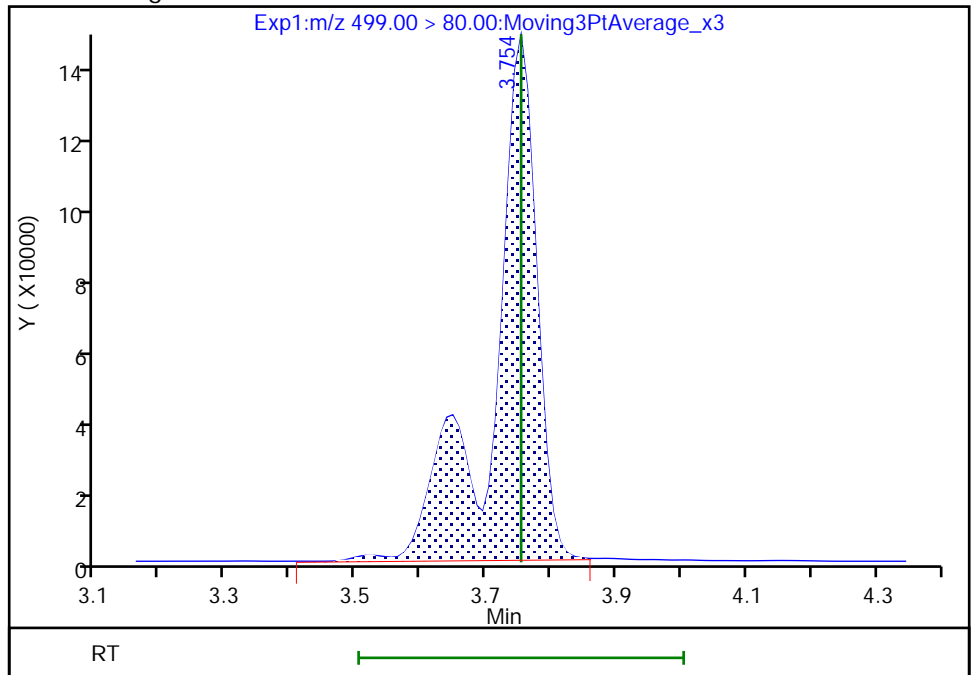
RT: 3.75
Area: 690826
Amount: 0.834188
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 686438
Amount: 0.829679
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:51:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

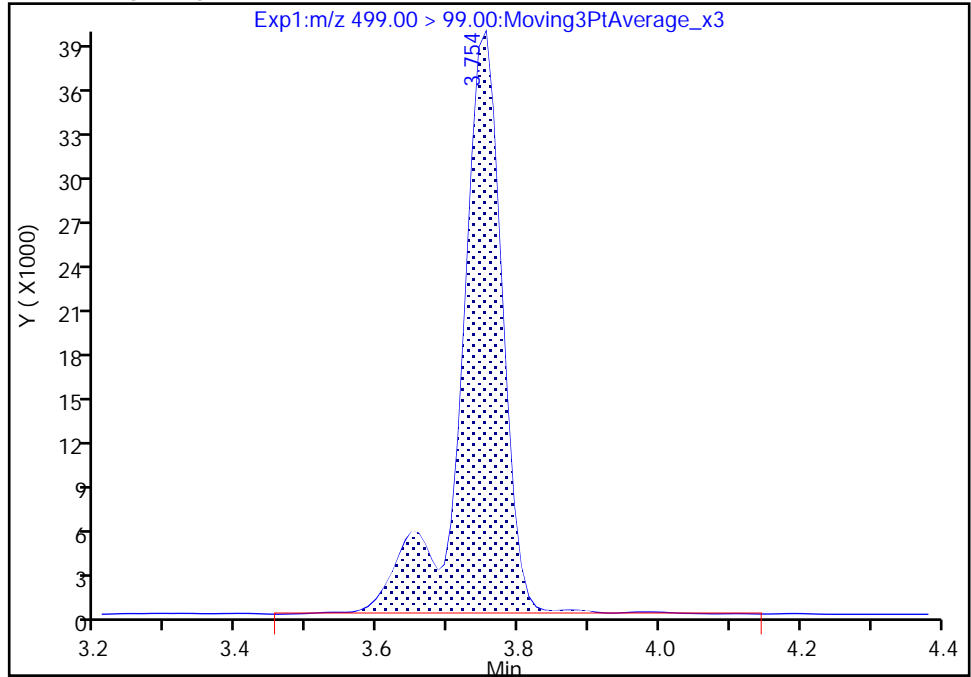
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Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

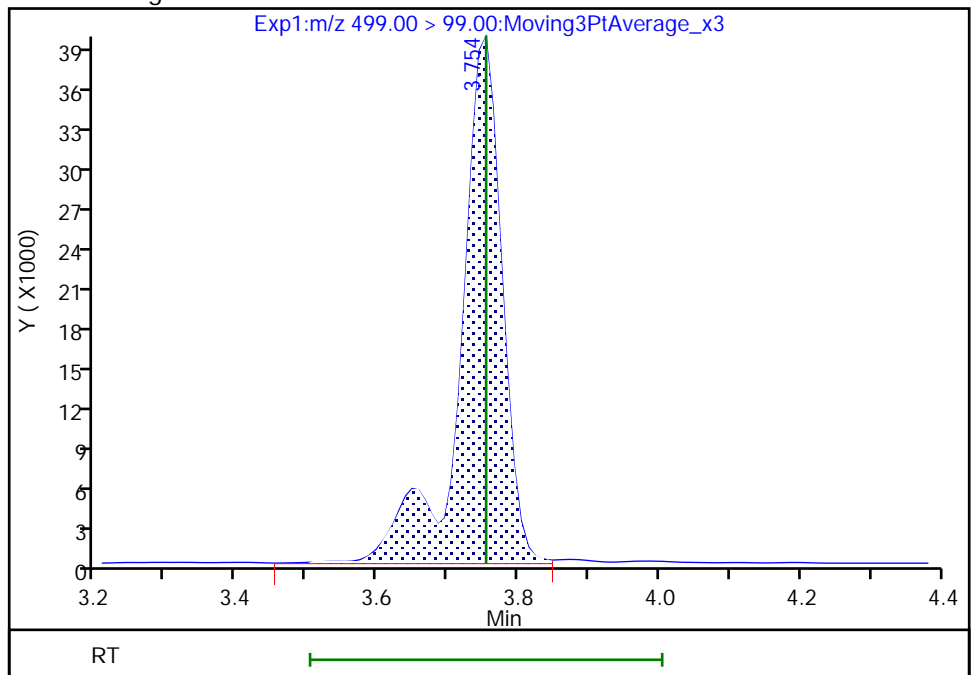
RT: 3.75
Area: 164064
Amount: 0.834188
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 162303
Amount: 0.829679
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:51:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

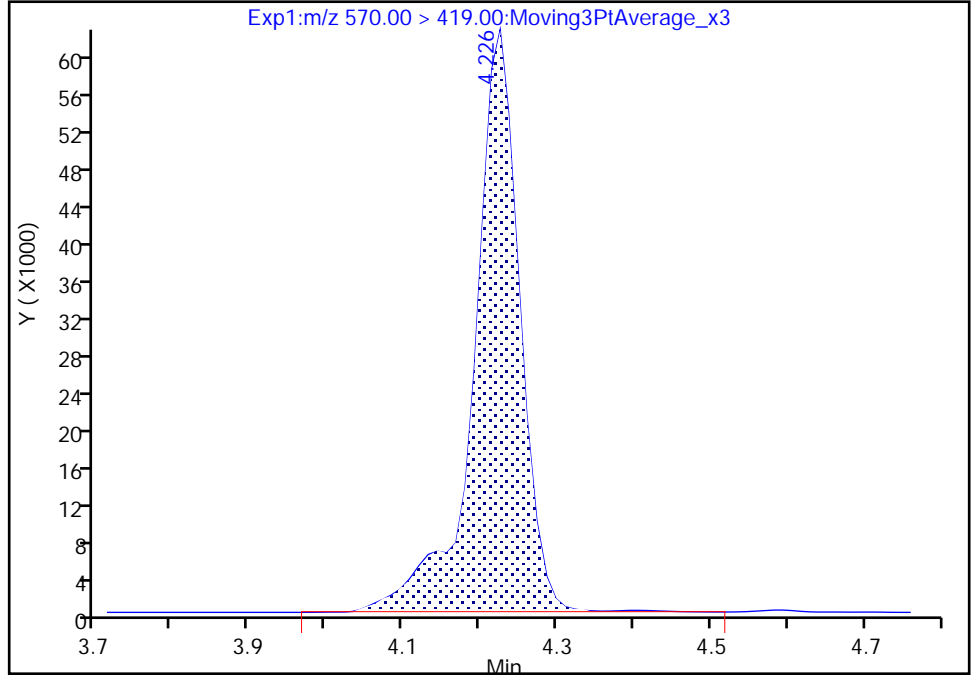
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

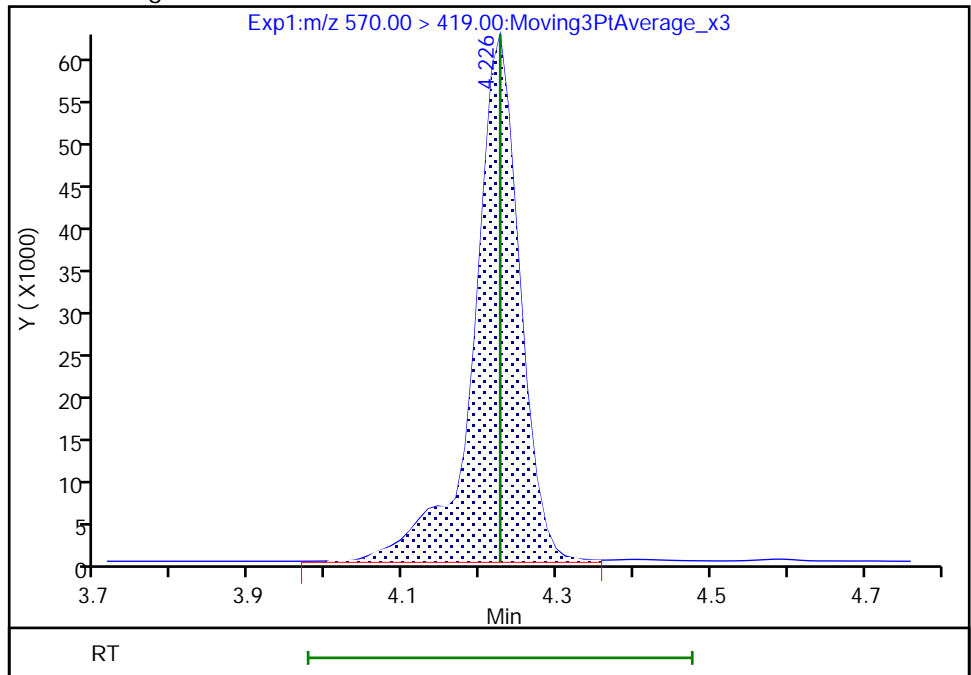
RT: 4.23
Area: 261522
Amount: 0.924923
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 260489
Amount: 0.921831
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:52:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

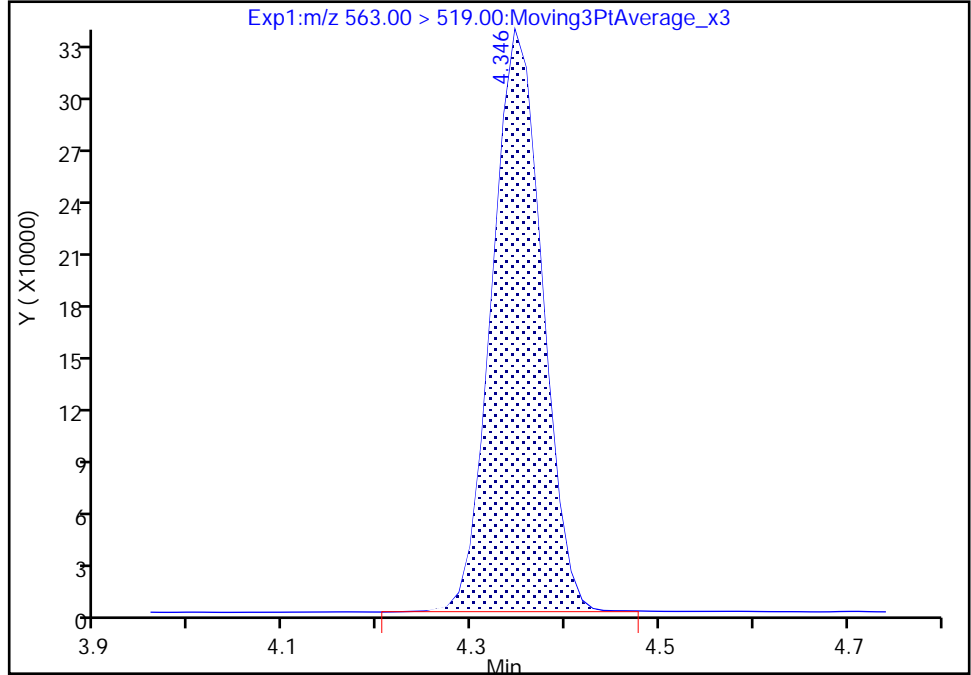
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

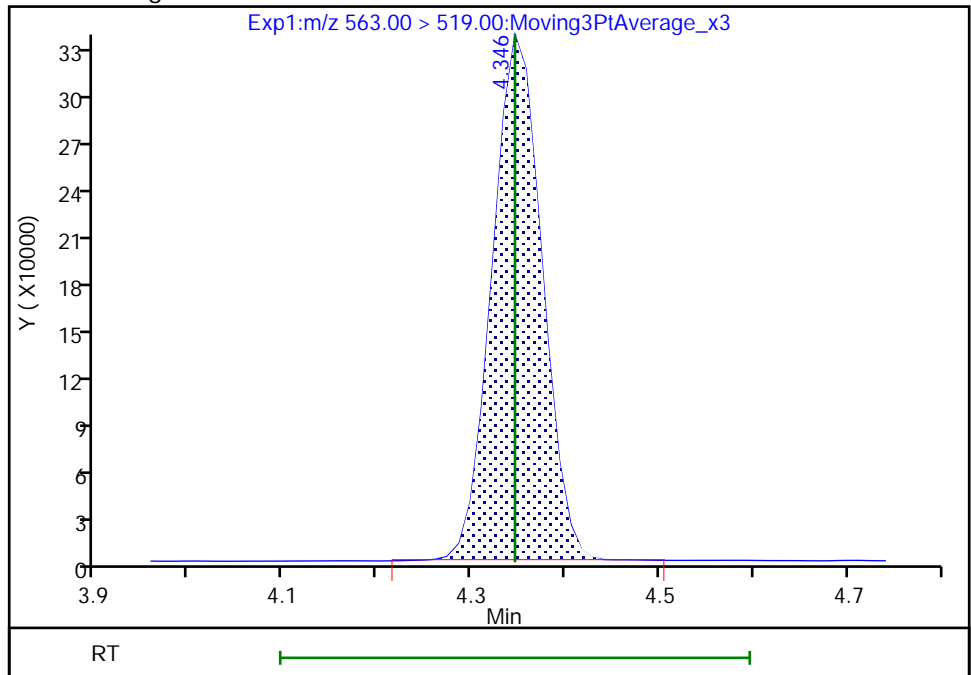
RT: 4.35
Area: 1249996
Amount: 0.794376
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1251894
Amount: 0.795423
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:05:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

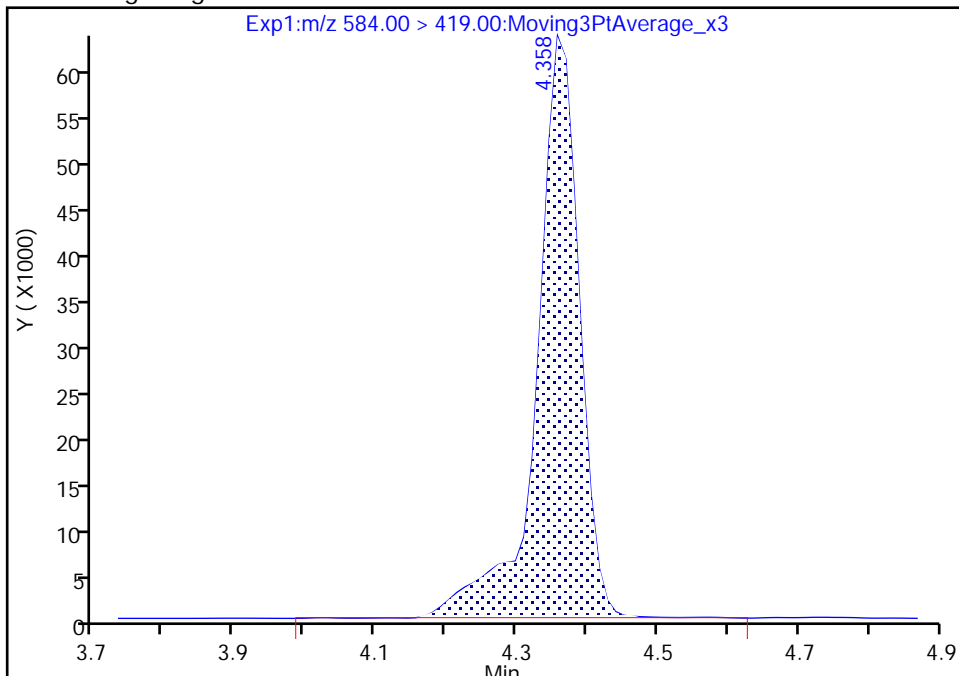
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Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

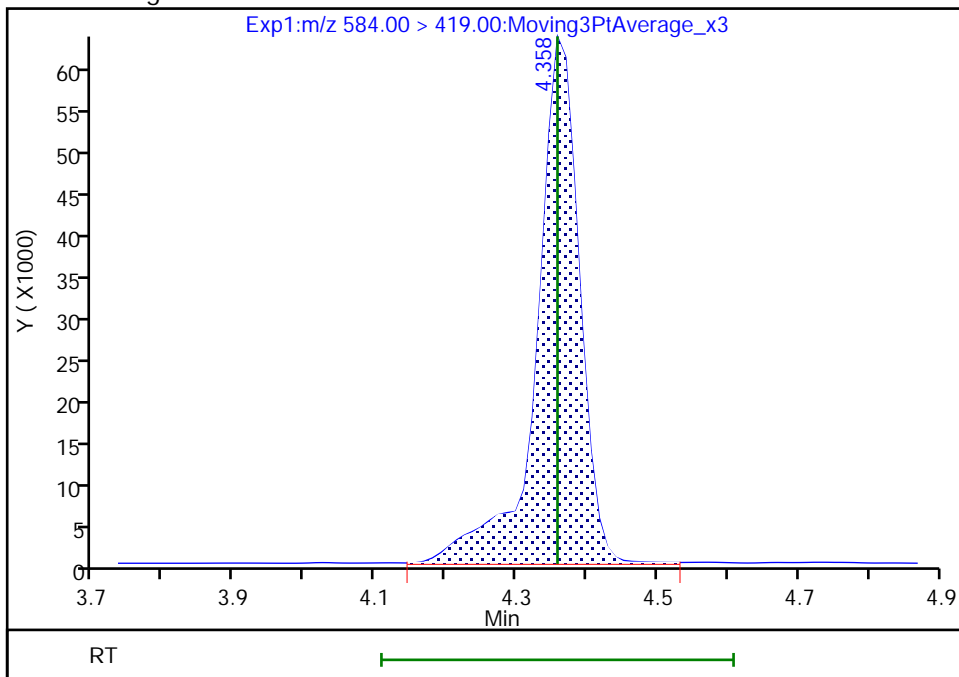
RT: 4.36
Area: 270996
Amount: 0.909549
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 269901
Amount: 0.906429
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:52:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 304 of 742

Eurofins Burlington

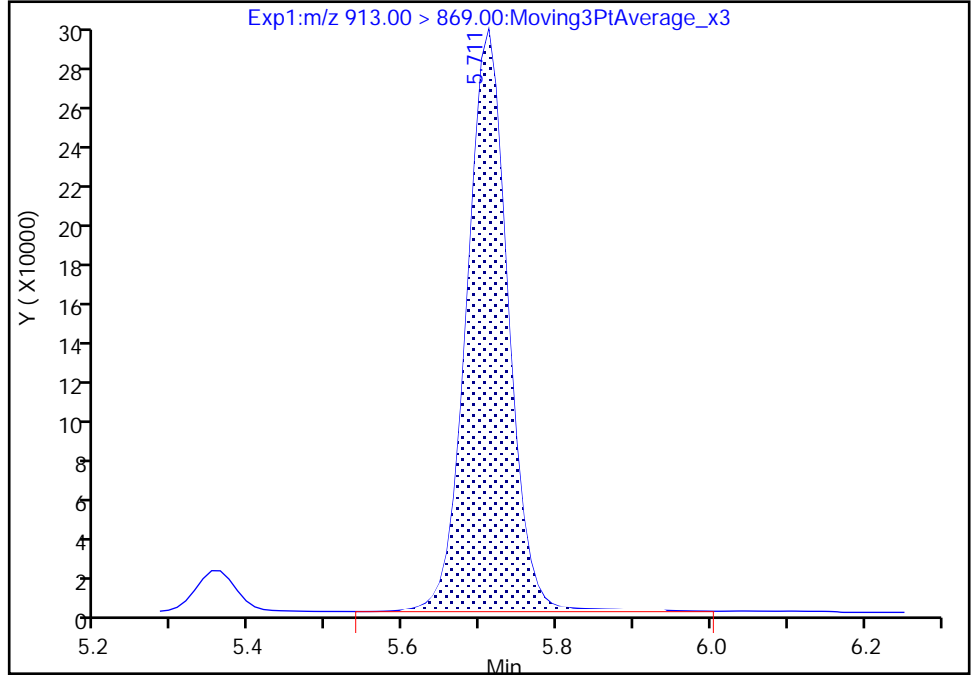
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Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

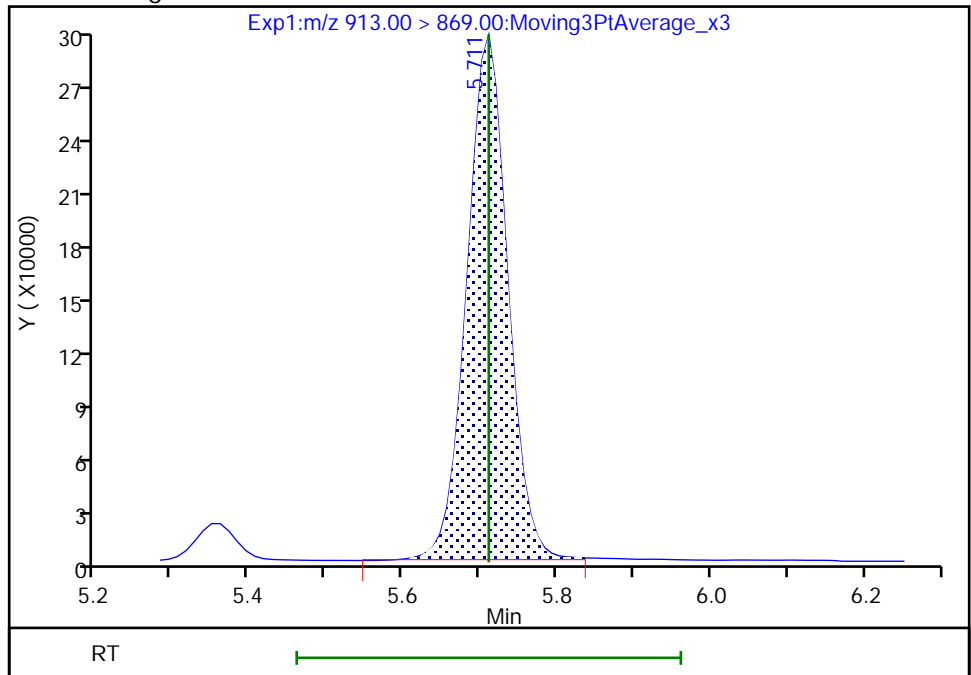
RT: 5.71
Area: 1116408
Amount: 0.944718
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 1106340
Amount: 0.937529
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:53:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

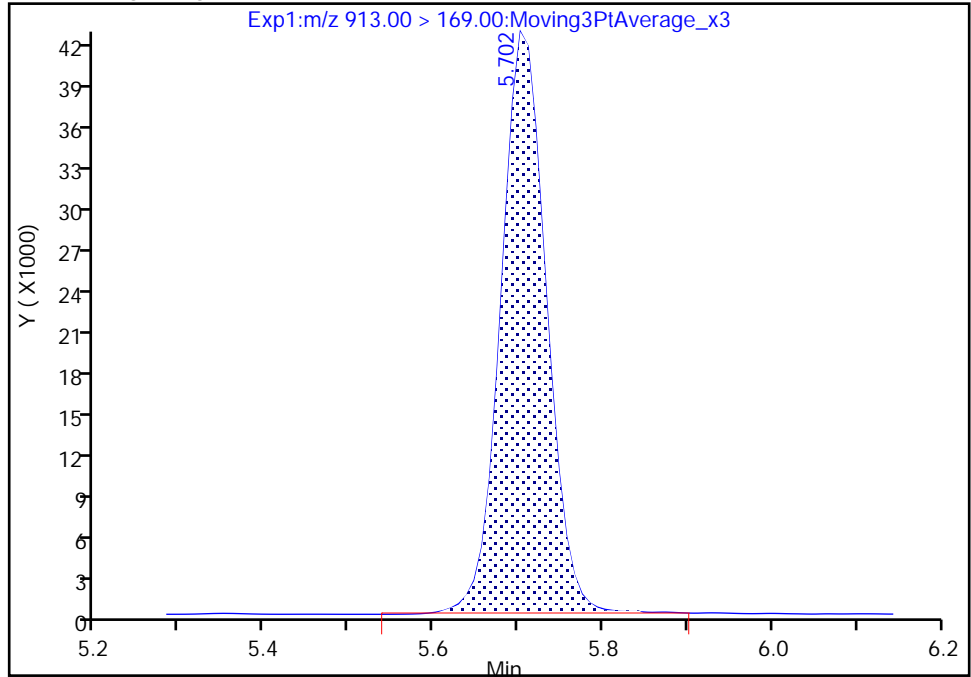
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

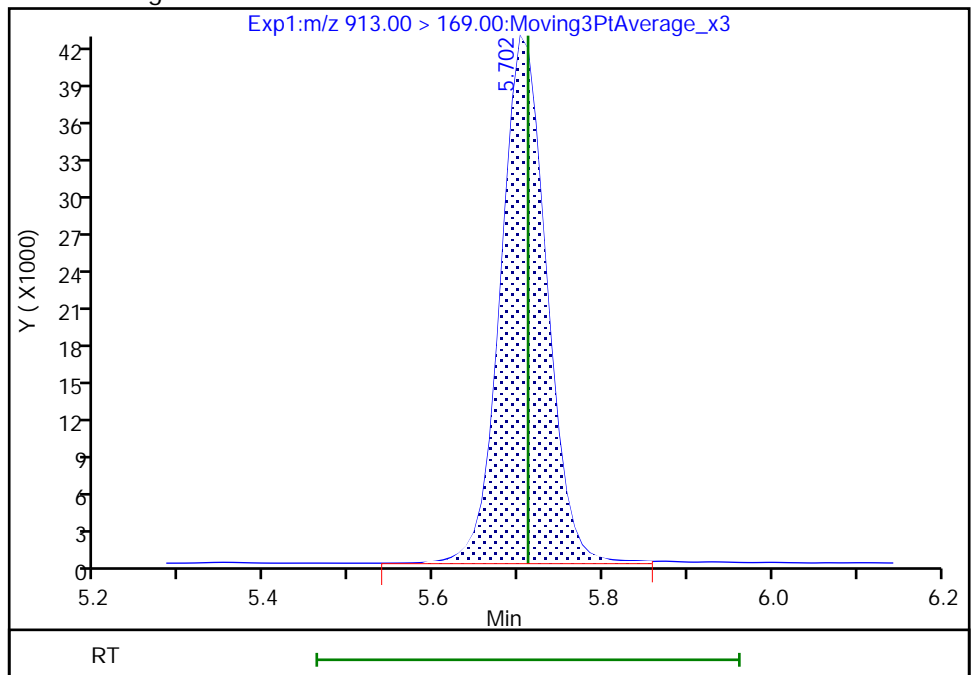
RT: 5.70
Area: 158059
Amount: 0.944718
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 158248
Amount: 0.937529
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:53:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Jan-2023 18:15:43 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-009 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:41 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 12:27:42

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.605	2239855	1.30	104	16275	
2 Perfluorobutanoic acid	212.90 > 169.00	2.086	2.094	-0.008	1.000	4203191	2.43	97.3	388	
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1687291	1.21	96.6	6129	
4 Perfluoropentanoic acid	262.90 > 219.00	2.384	2.370	0.014	1.000	3559403	2.30	92.1	113	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1713984	1.12	96.1	166314	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.006	3136677	1.99	Target=1.99	89.9	4257
	298.90 > 99.00	2.411	2.384	0.027	1.006	1652928	1.90(0.99-2.98)	89.9	1155	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.694	2.669	0.025	1.000	825329	2.01	85.9	5444	
D 60 M2-4:2 FTS	329.00 > 81.00	2.694	2.669	0.025	0.782	162324	1.31	112	251	M
D 7 13C2 PFHxA	315.00 > 270.00	2.719	2.694	0.025	0.789	1743329	1.20	96.1	4873	
6 Perfluorohexanoic acid	313.00 > 269.00	2.731	2.706	0.025	1.005	3563945	2.43	Target=13.02	97.0	520
	313.00 > 119.00	2.719	2.706	0.013	1.000	257895	13.82(6.51-19.53)	97.0	596	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.883	3150424	2.08	Target=2.73	88.9	4523
	349.00 > 99.00	2.731	2.706	0.025	0.883	1142587	2.76(1.37-4.10)	88.9	2976	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.831	2.806	0.025	1.000	597481	2.39	95.8	6711	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.831	2.806	0.025	0.822	312102	1.24		99.3	3975	
D 11 18O2 PFHxS										
403.00 > 84.00	3.093	3.069	0.024	0.898	1445292	1.29		110	5293	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.081	3.069	0.012	0.996	2494896	1.86	Target=3.13	81.7	5511	M
399.00 > 99.00	3.081	3.069	0.012	0.996	822663		3.03(1.57-4.70)	81.7	1393	
D 9 13C4 PFHpA										
367.00 > 322.00	3.093	3.069	0.024	0.898	1749350	1.20		96.3	7734	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.093	3.069	0.024	1.000	3343362	2.24	Target=3.92	89.7	571	
363.00 > 169.00	3.093	3.069	0.024	1.000	888324		3.76(1.96-5.88)	89.7	2461	
77 DONA										
377.00 > 251.00	3.127	3.104	0.023	0.833	8713801	2.25	Target=3.04	95.7	7140	
377.00 > 85.00	3.127	3.104	0.023	0.833	2802770		3.11(1.52-4.56)	95.7	5948	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.428	3.417	0.011	0.995	201091	1.14		96.3	789	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.437	3.417	0.020	1.003	864239	2.23		94.0	851	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.428	3.417	0.011	0.913	2085994	2.13	Target=4.66	89.3	5912	
449.00 > 99.00	3.428	3.417	0.011	0.913	465081		4.49(2.33-6.99)	89.3	2692	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.426	0.020	1.000	1893164	1.23		98.3	7217	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.426	0.020		1879172	1.25			7277	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.426	0.020	1.000	4169314	2.53	Target=3.01	101	328	
413.00 > 169.00	3.446	3.426	0.020	1.000	1363281		3.06(1.50-4.51)	101	2254	
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.089	806118	1.19		99.4	3032	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	1676540	2.05	Target=4.13	88.2	1486	M
499.00 > 99.00	3.754	3.754	0.0	1.000	395367		4.24(2.07-6.20)	88.2	1291	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.774	0.0	1.000	3365289	2.25	Target=8.58	90.0	524	
463.00 > 169.00	3.774	3.774	0.0	1.000	431092		7.81(4.29-12.87)	90.0	3274	
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.774	0.0	1.095	1830847	1.22		97.6	7537	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	4291748	2.19		94.2	12660	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	1503391	2.21	Target=2.32	92.0	9738	
549.00 > 99.00	4.052	4.043	0.009	1.080	668788		2.25(1.16-3.48)	92.0	4092	
D 23 13C2 PFDA										
515.00 > 470.00	4.074	4.074	0.0	1.182	1896398	1.23		98.6	8896	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.074	4.074	0.0	1.000	4152457	2.56	Target=10.61	102	1120	
513.00 > 169.00	4.074	4.074	0.0	1.000	387780		10.71(5.30-15.91)	102	1104	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.185	246611	1.12		93.4	1061	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	818892	2.19		91.5	7589	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	2976080	2.41		96.5	3760	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	1533594	1.23		98.1	4948	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.226	375639	1.24		99.3	584	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	655768	2.42		96.8	880	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	1139225	2.25	Target=2.46	93.2	5764	
599.00 > 99.00	4.322	4.322	0.0	1.151	479836		2.37(1.23-3.69)	93.2	2000	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.261	1609362	1.21		96.9	8809	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	3309497	2.35	Target=11.25	94.2	866	
563.00 > 169.00	4.346	4.346	0.0	1.000	290959		11.37(5.62-16.87)	94.2	1655	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.000	635414	2.44		97.7	1779	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.265	349833	1.20		96.3	793	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	7017264	2.32		98.4	7207	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.584	4.584	0.0	1.000	3235379	2.36	Target=8.15	94.4	384	
613.00 > 169.00	4.584	4.584	0.0	1.000	400204		8.08(4.08-12.23)	94.4	3992	
D 36 13C2 PFDaA										
615.00 > 570.00	4.584	4.584	0.0	1.330	1683692	1.26		101	4140	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.606	4.606	0.0	1.128	538890	2.28		94.7	4403	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.268	478683	2.32	Target=0.53	96.0	5477	
699.00 > 99.00	4.760	4.770	-0.010	1.268	886233		0.54(0.26-0.79)	96.0	5677	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.799	4.799	0.0	1.047	3273521	2.39	Target=6.29	95.6	330	
663.00 > 169.00	4.799	4.799	0.0	1.047	496384		6.59(3.14-9.43)	95.6	3260	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	332815	2.35	Target=0.93	93.9	3674	
713.00 > 219.00	4.987	4.998	-0.011	0.998	336894		0.99(0.46-1.39)	93.9	3054	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.450	1419059	1.24		99.1	5048	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.362	-0.012	1.000	3219693	2.53	Target=6.52	101	425	
813.00 > 169.00	5.350	5.362	-0.012	1.000	458834		7.02(3.26-9.77)	101	4187	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.362	-0.012	1.553	1735459	1.24		98.9	6720	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.702	5.711	-0.009	1.066	2725859	2.43	Target=7.39	97.1	336	M
913.00 > 169.00	5.702	5.711	-0.009	1.066	377341		7.22(3.69-11.08)	97.1	1246	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00030

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d

Injection Date: 11-Jan-2023 18:15:43

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

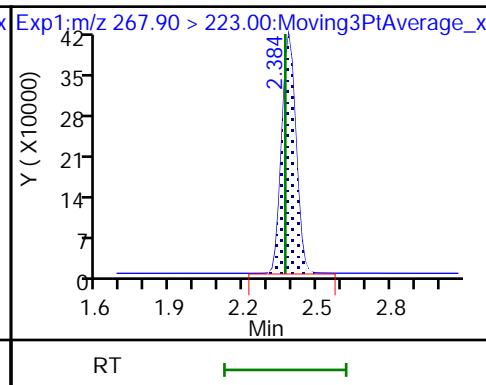
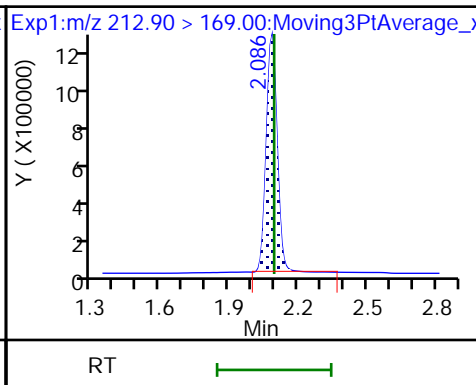
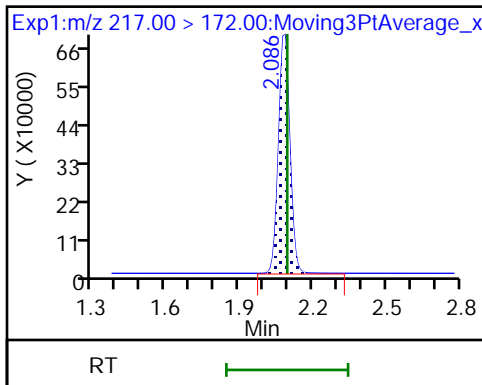
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

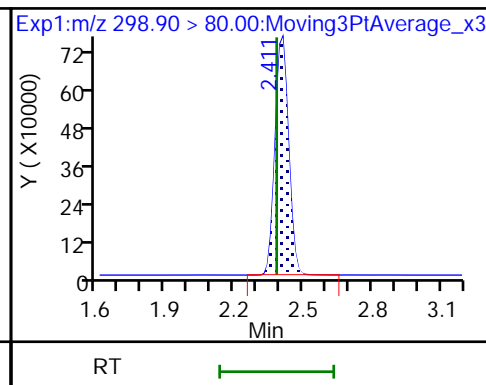
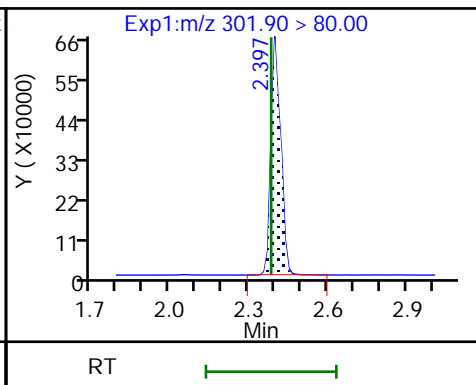
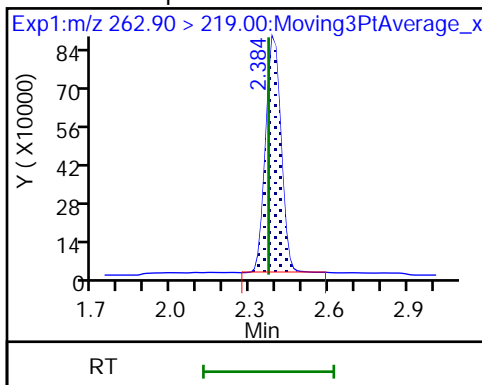
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

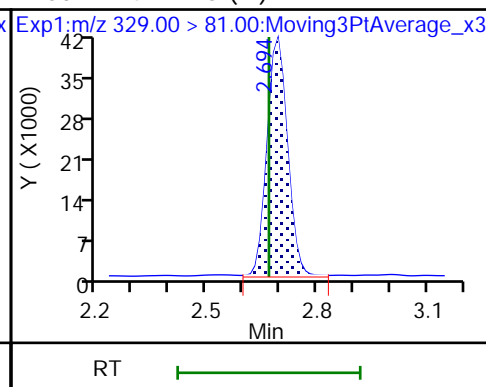
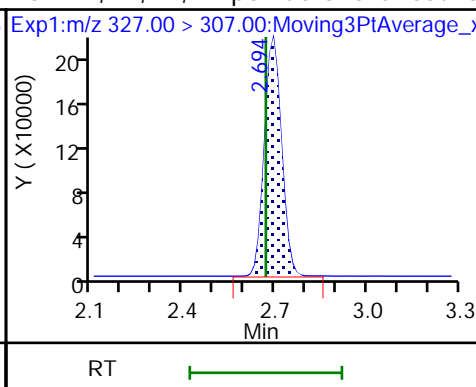
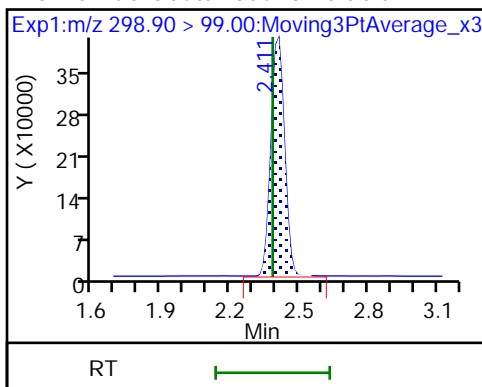
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

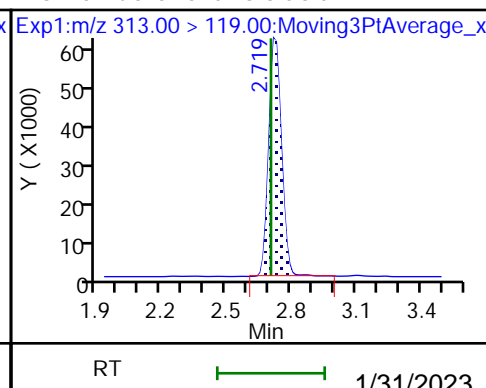
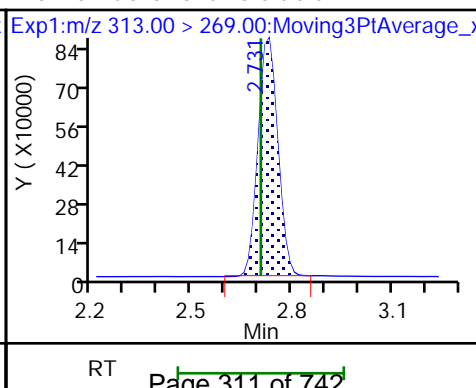
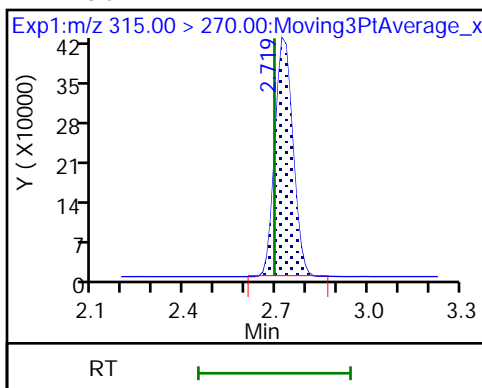
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

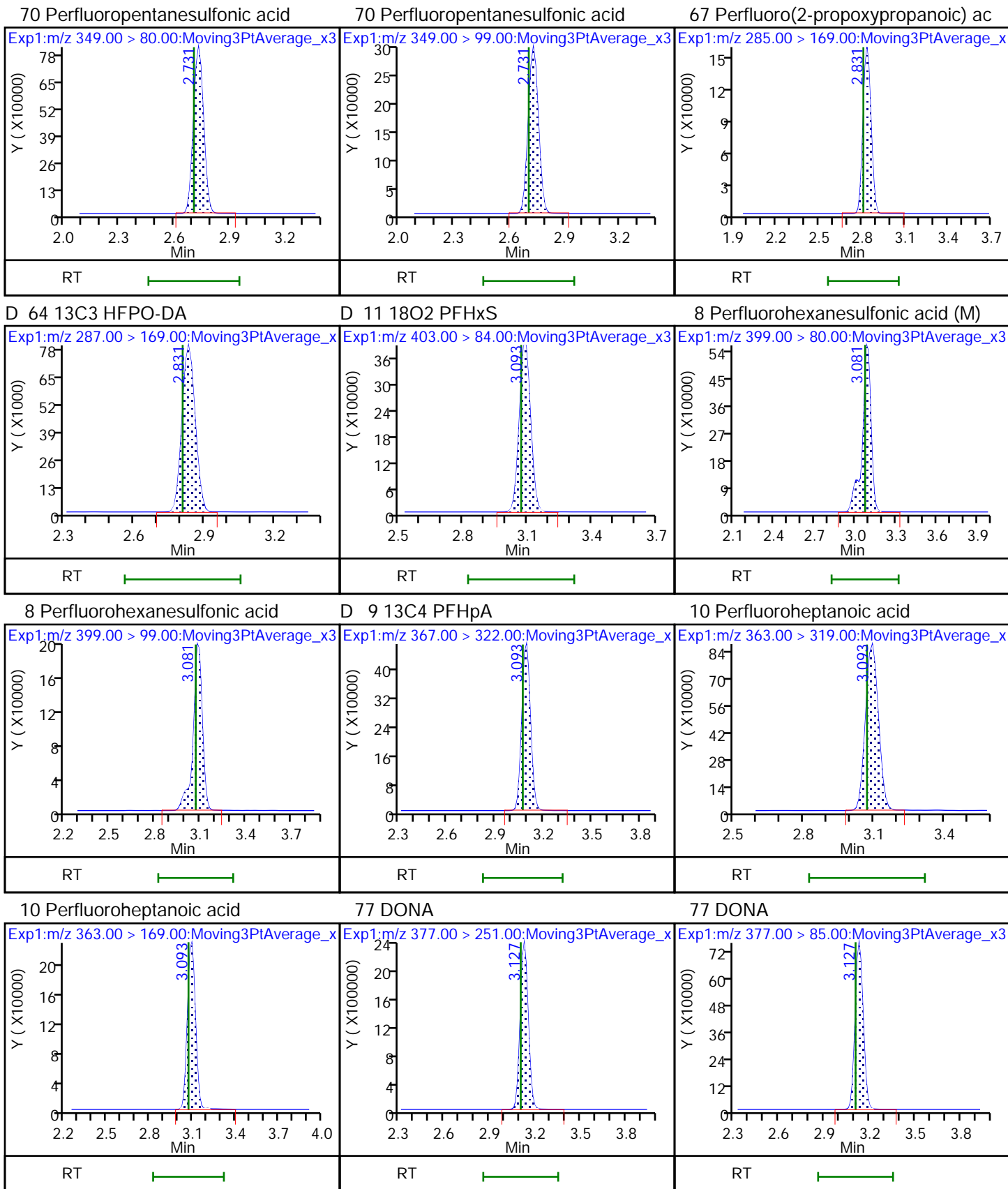


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

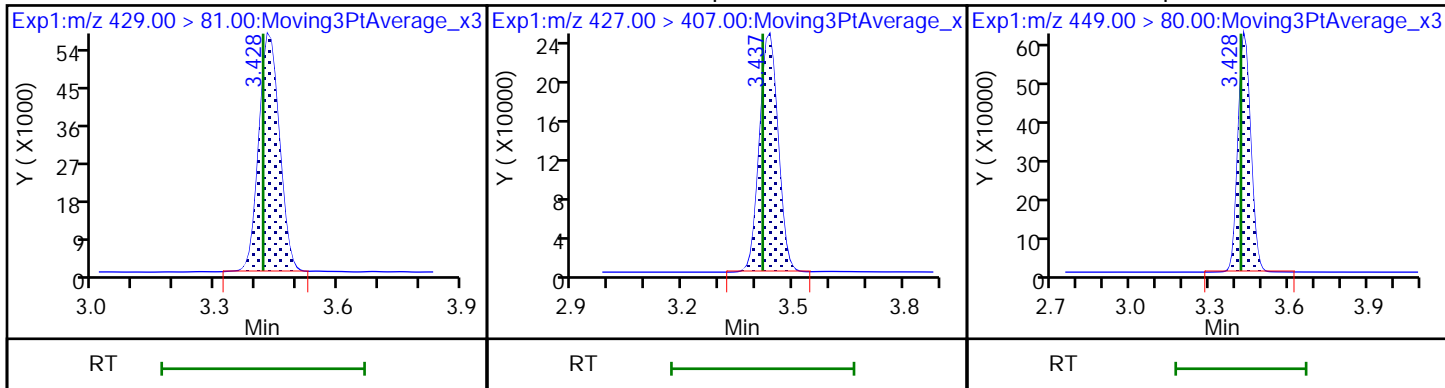




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

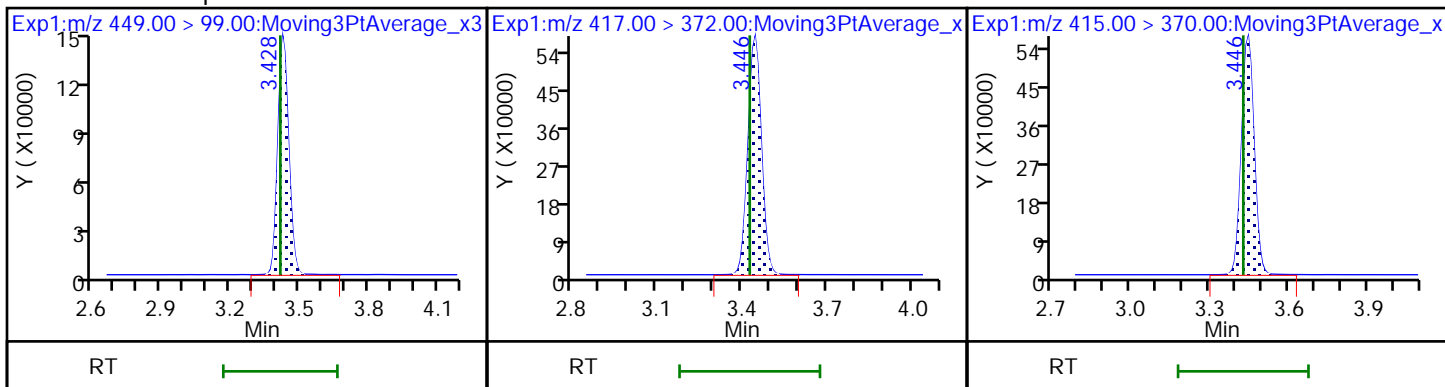
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

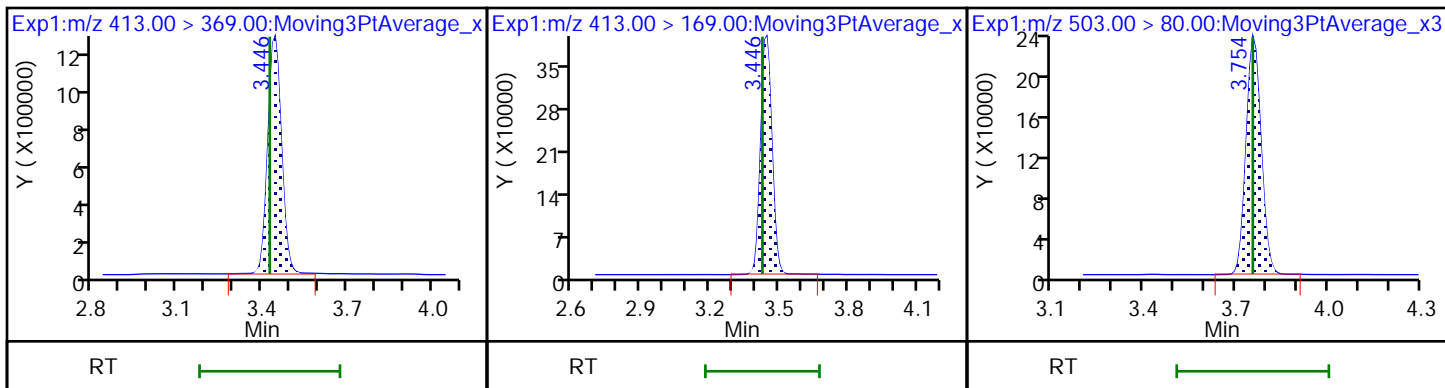
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

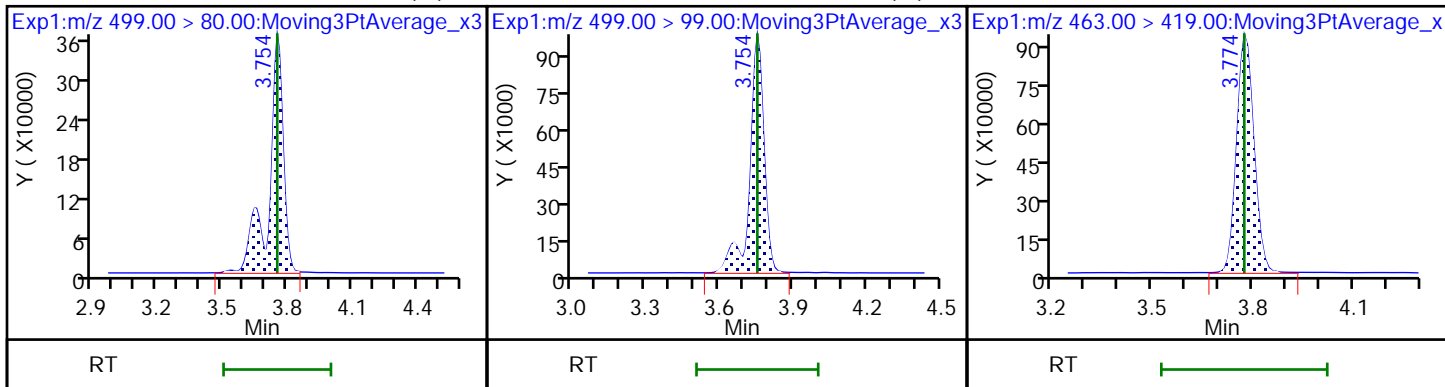
D 18 13C4 PFOS

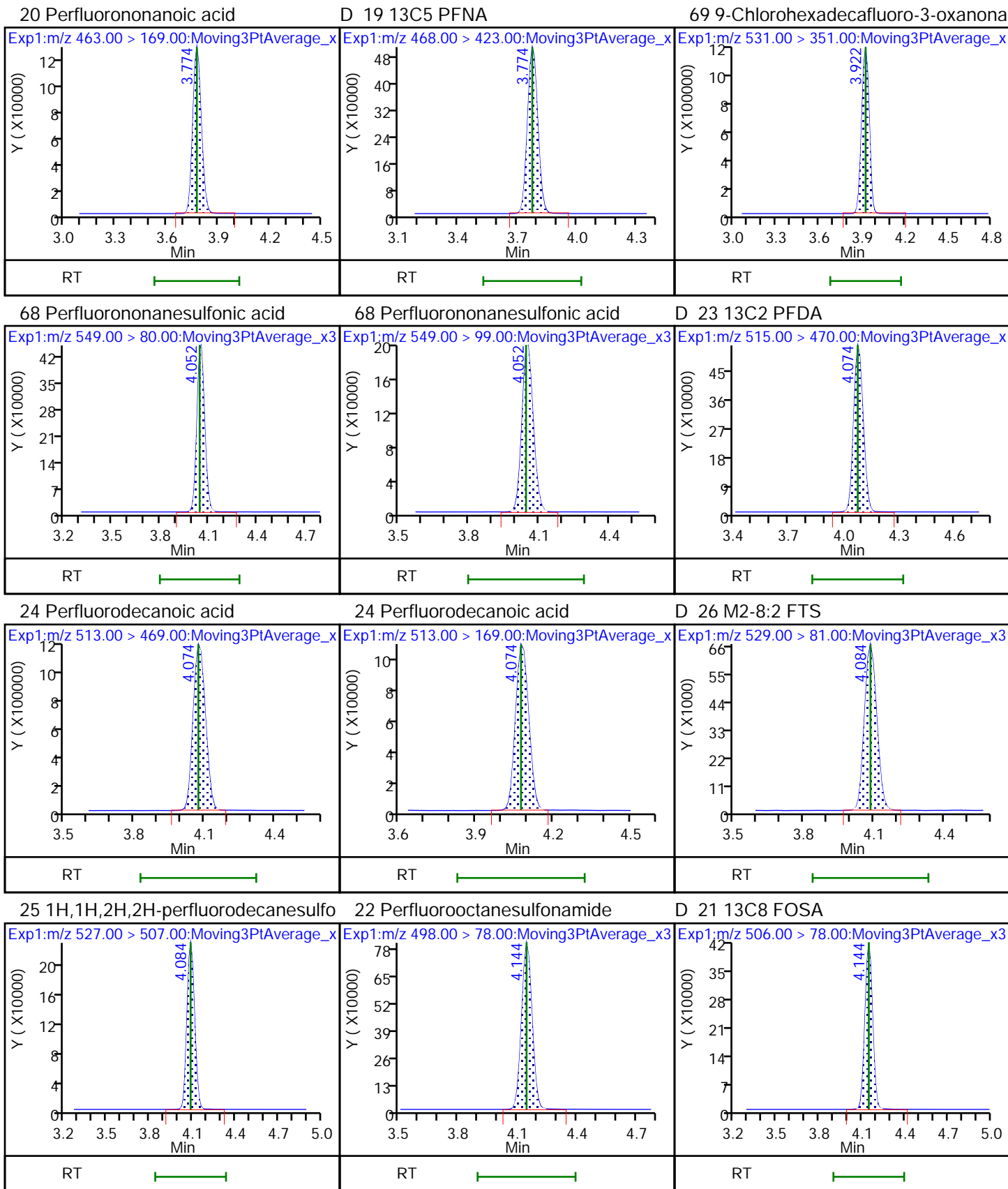


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

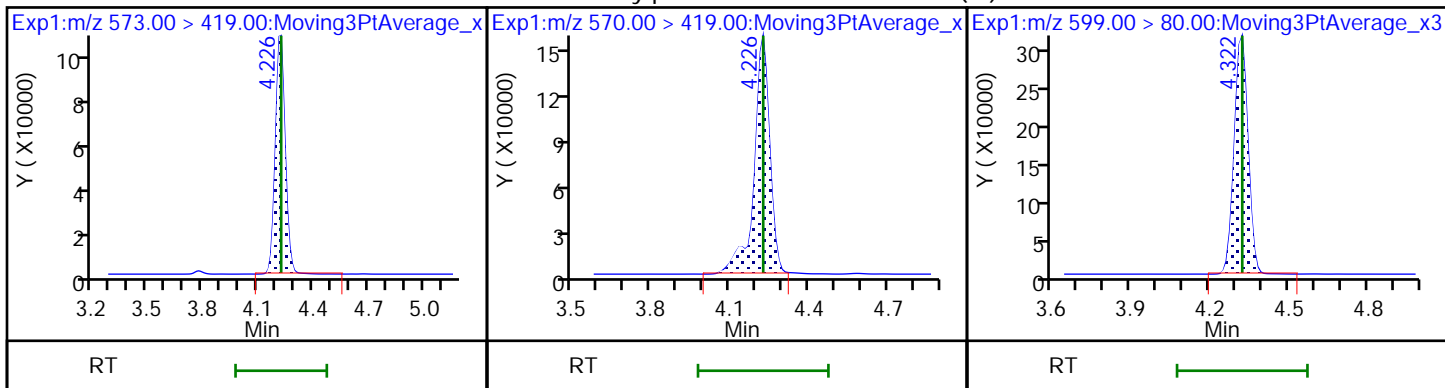
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

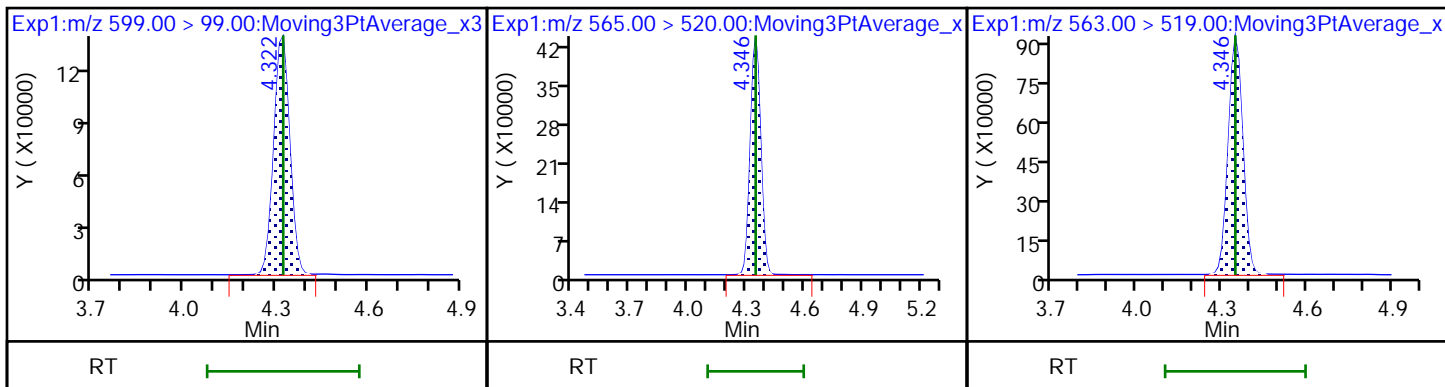
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

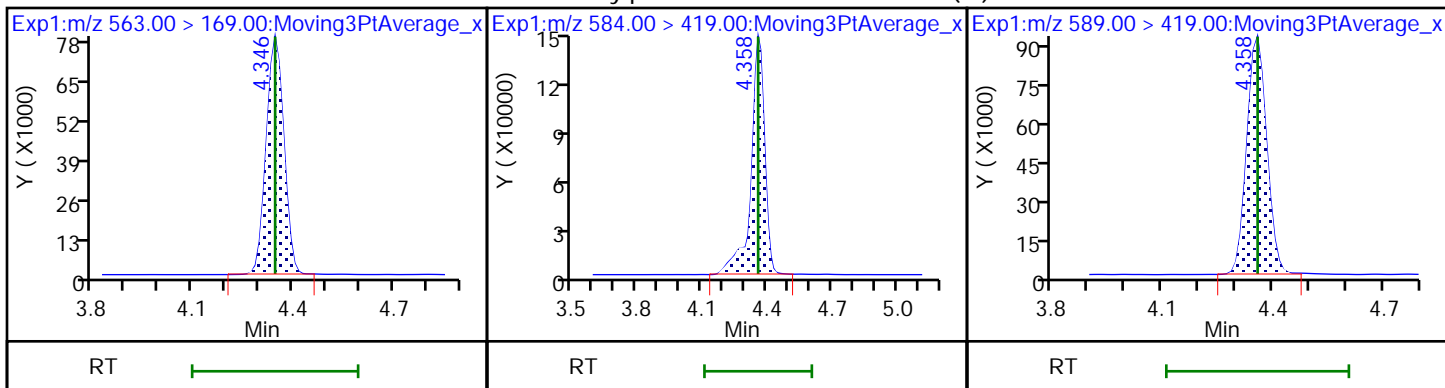
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

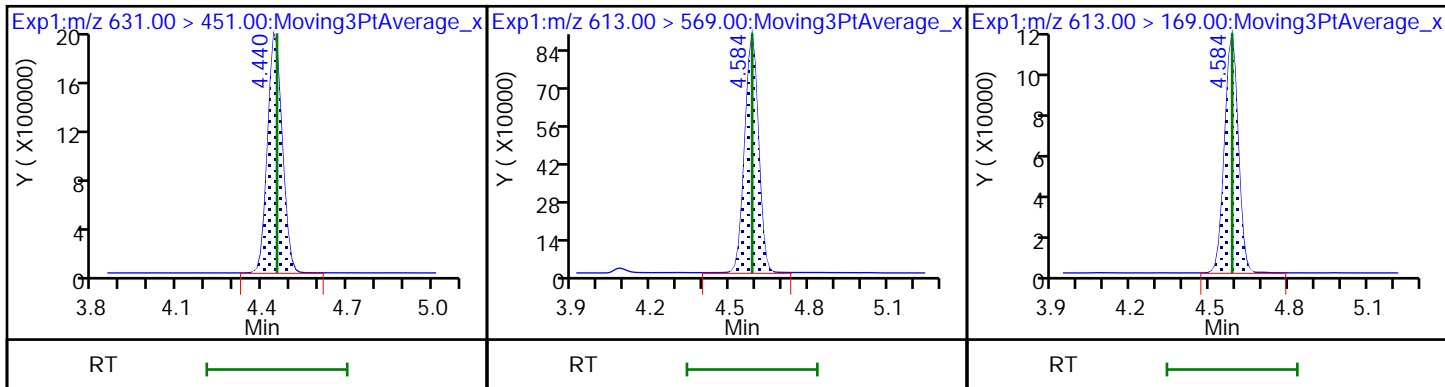
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

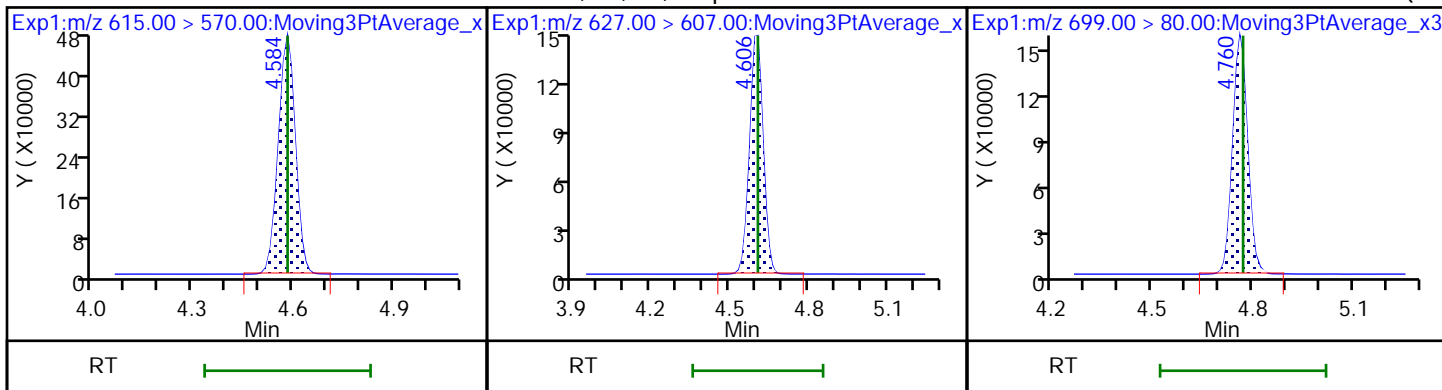
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

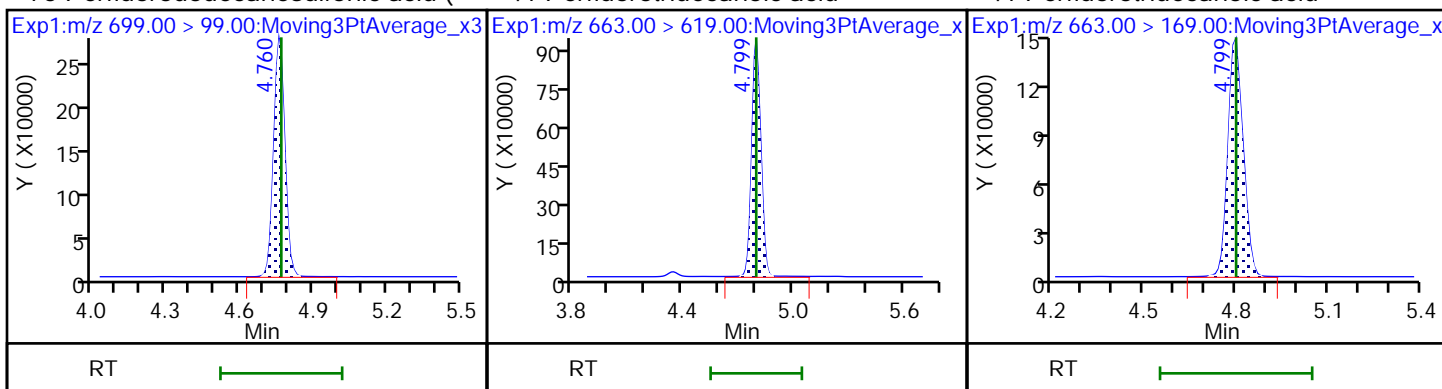
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

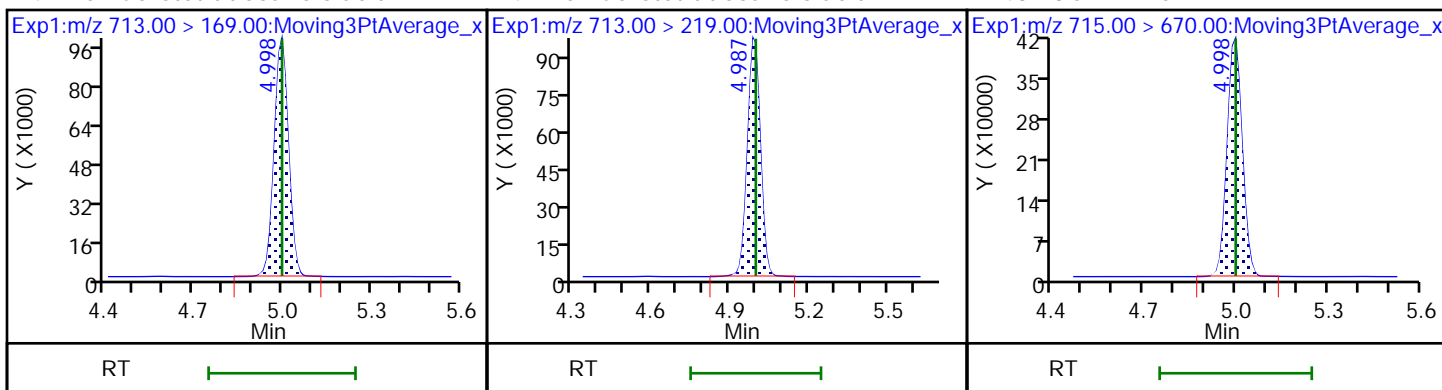
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

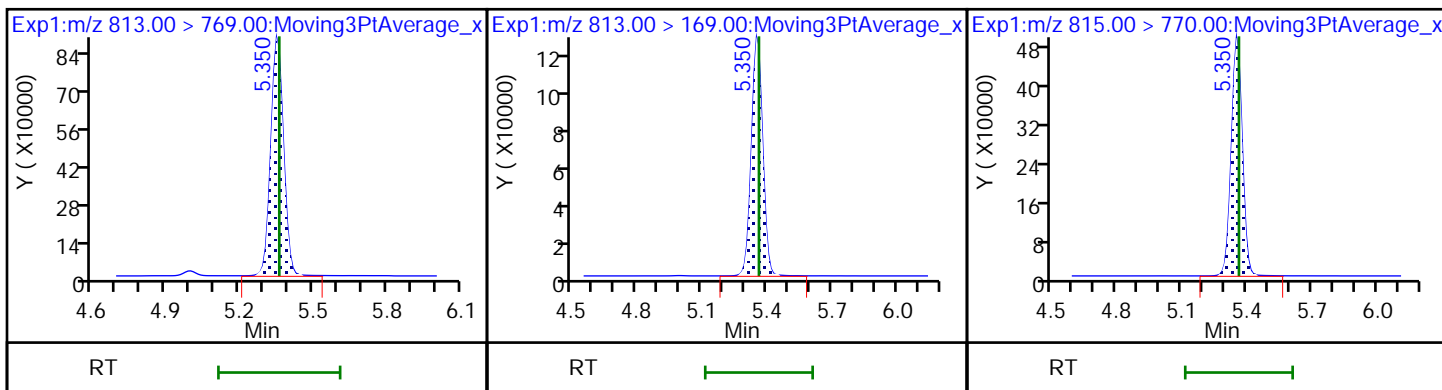
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

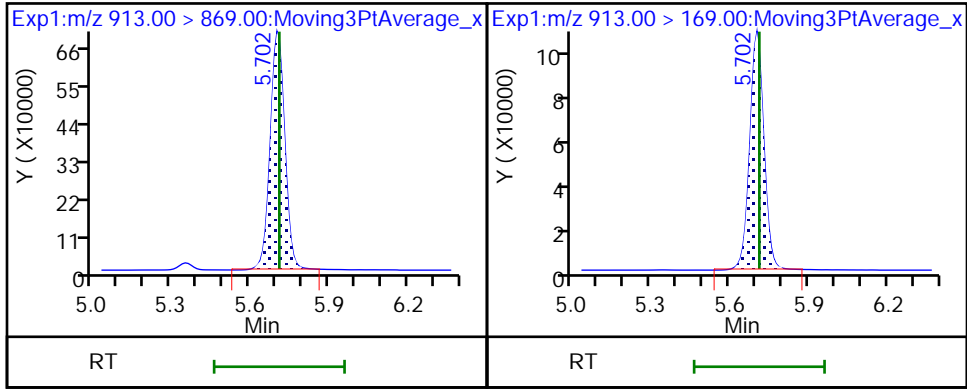
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



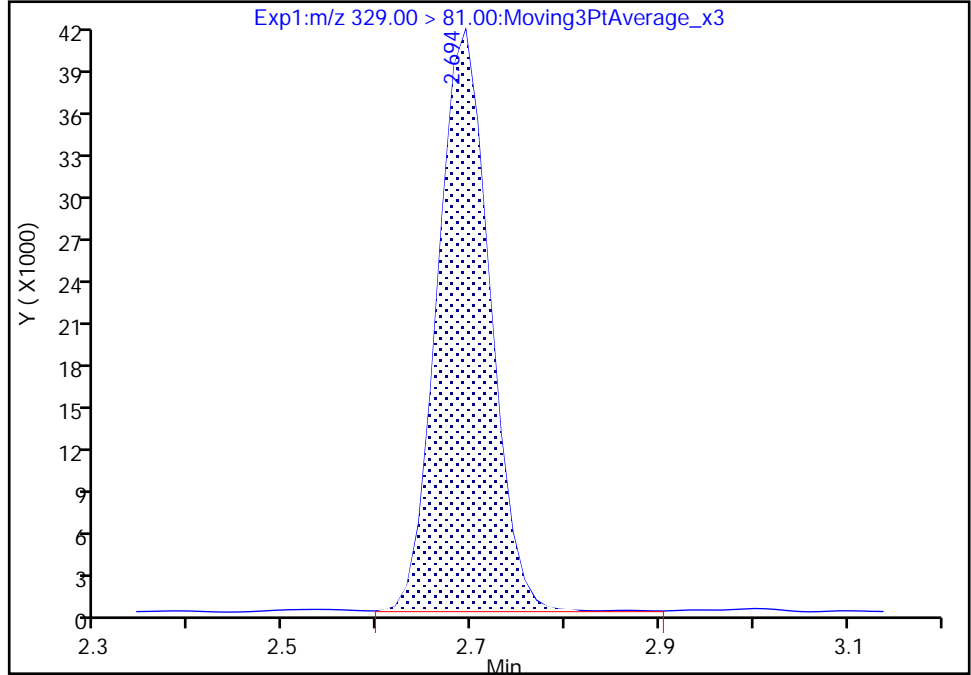
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395
Signal: 1

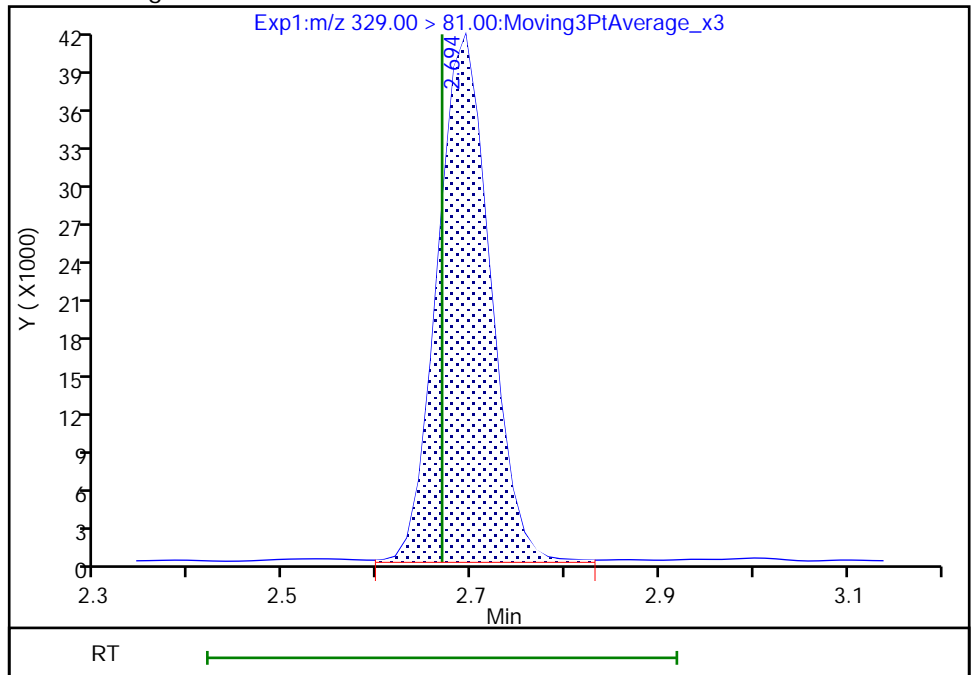
RT: 2.69
Area: 163019
Amount: 1.315426
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 162324
Amount: 1.308848
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:45:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

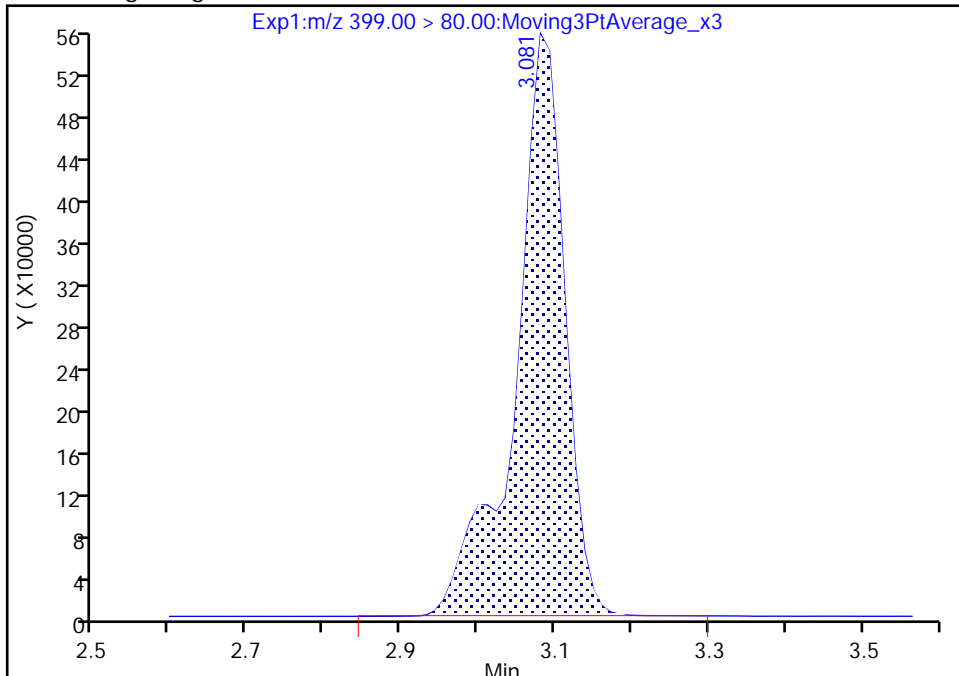
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

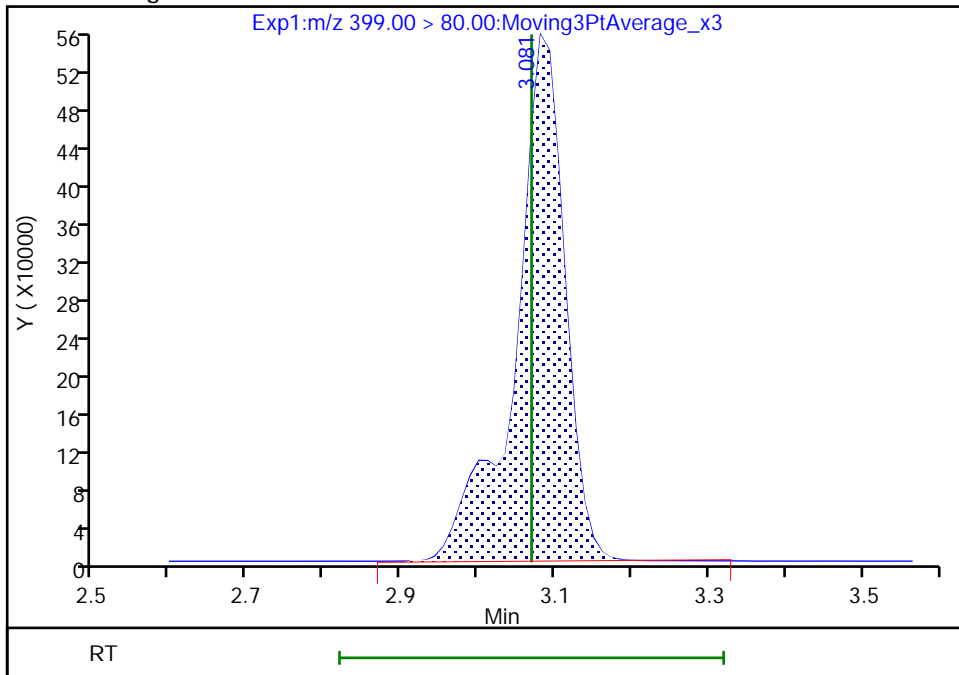
RT: 3.08
Area: 2493734
Amount: 1.858667
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 2494896
Amount: 1.859631
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:07:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 319 of 742

Eurofins Burlington

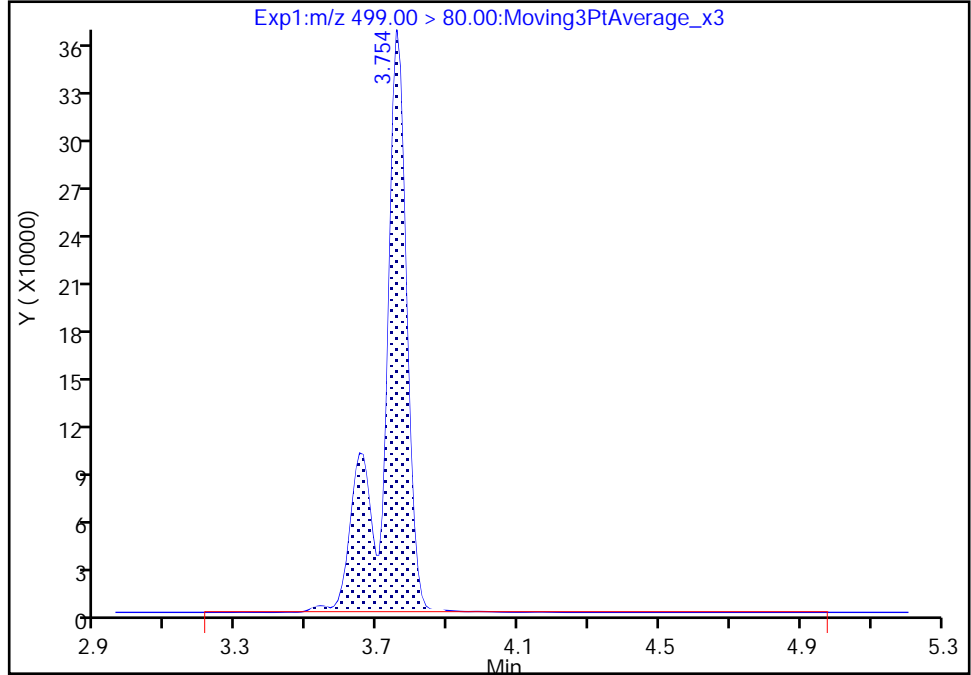
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

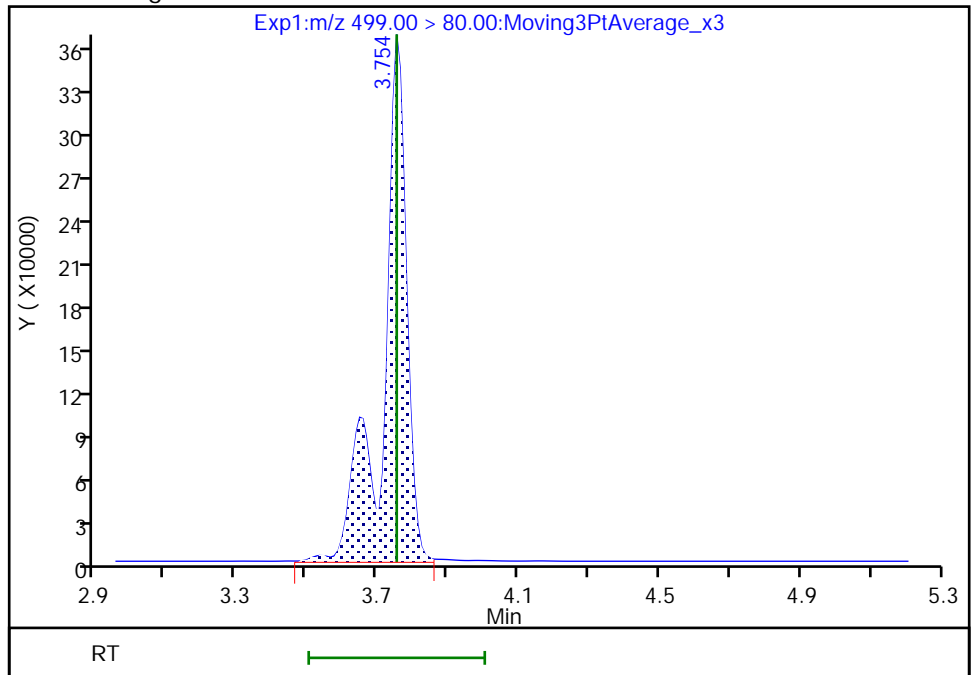
RT: 3.75
Area: 1687892
Amount: 2.054771
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1676540
Amount: 2.045838
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:45:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

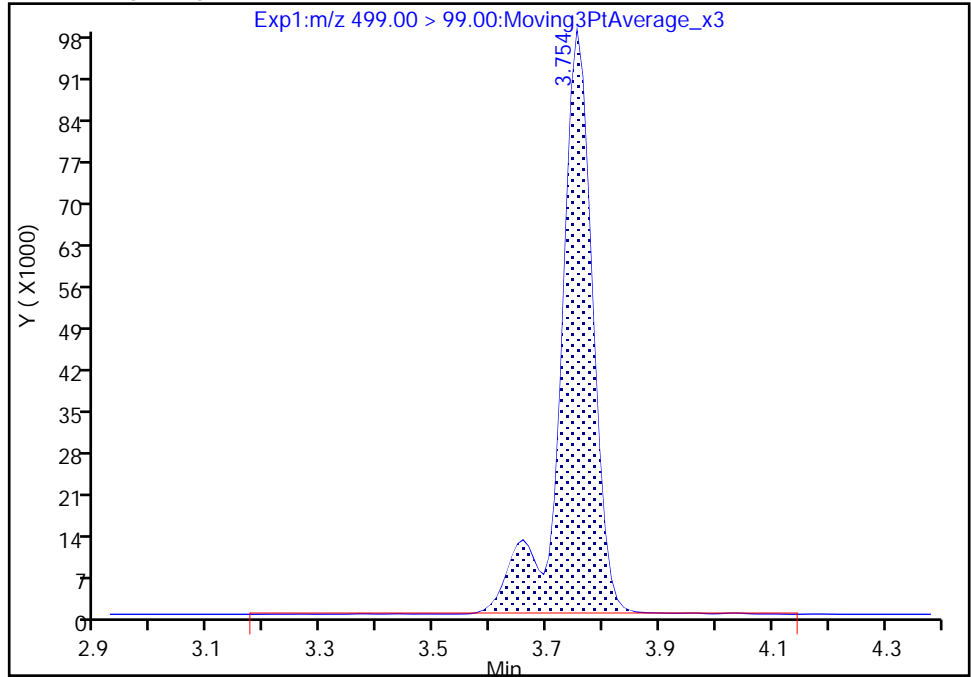
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

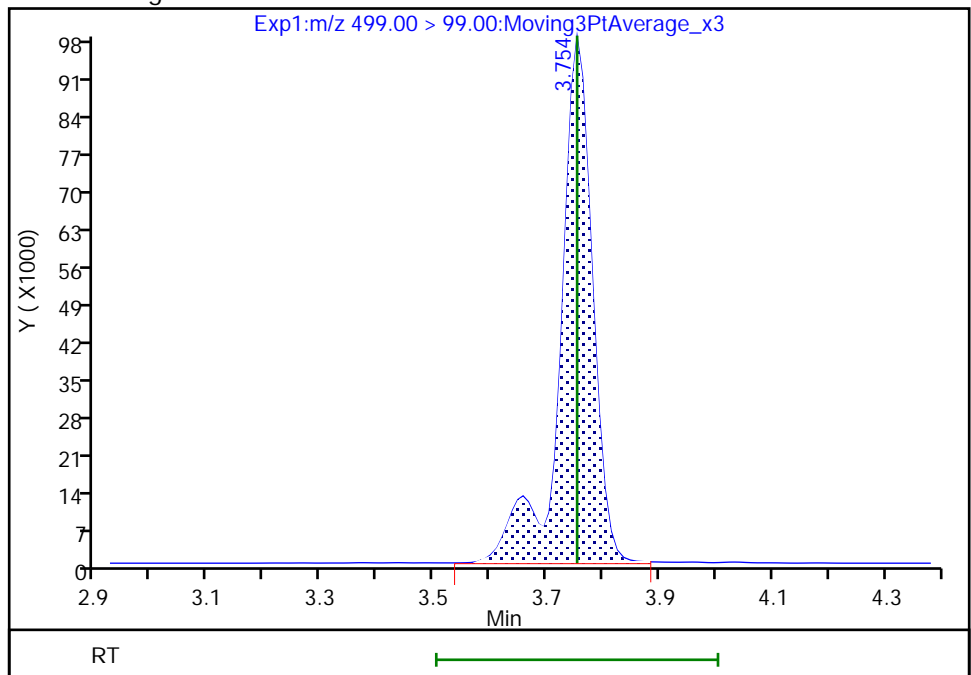
RT: 3.75
Area: 398560
Amount: 2.054771
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 395367
Amount: 2.045838
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:45:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

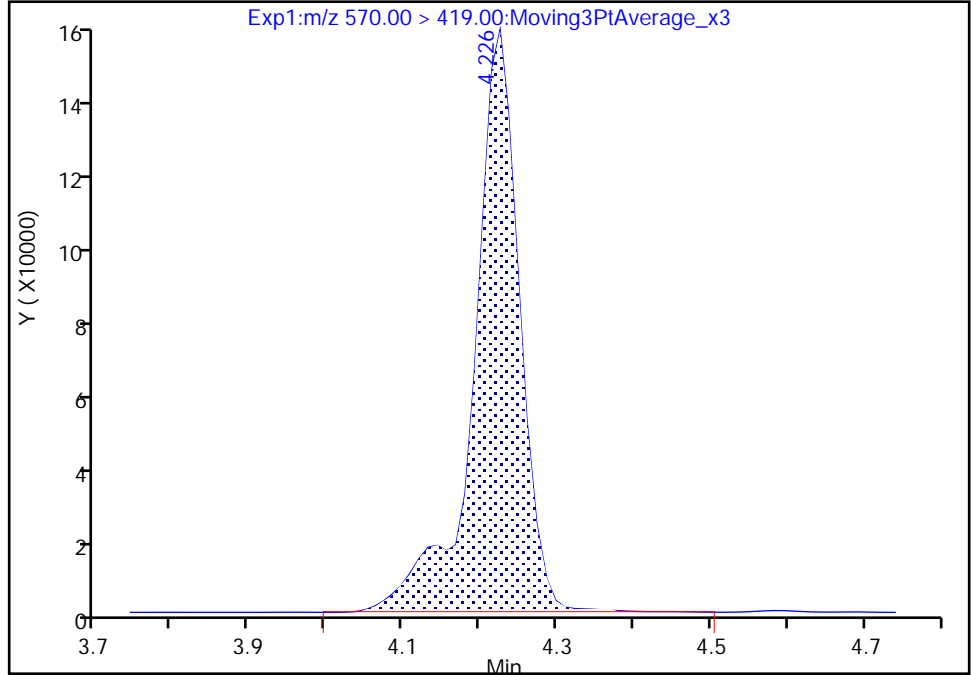
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

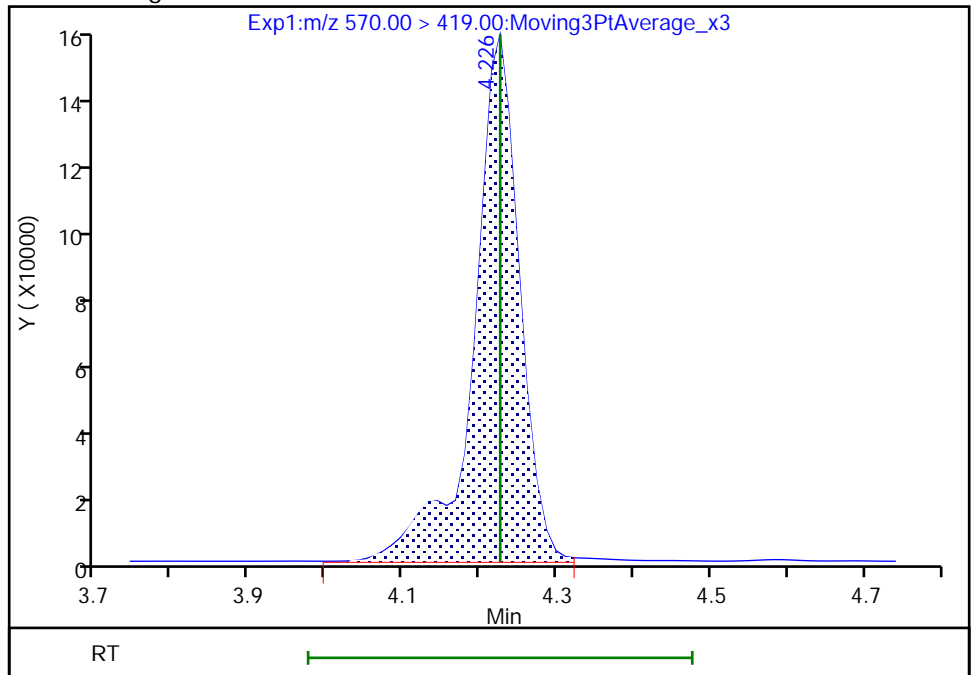
RT: 4.23
Area: 659942
Amount: 2.430418
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 655768
Amount: 2.420238
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:46:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

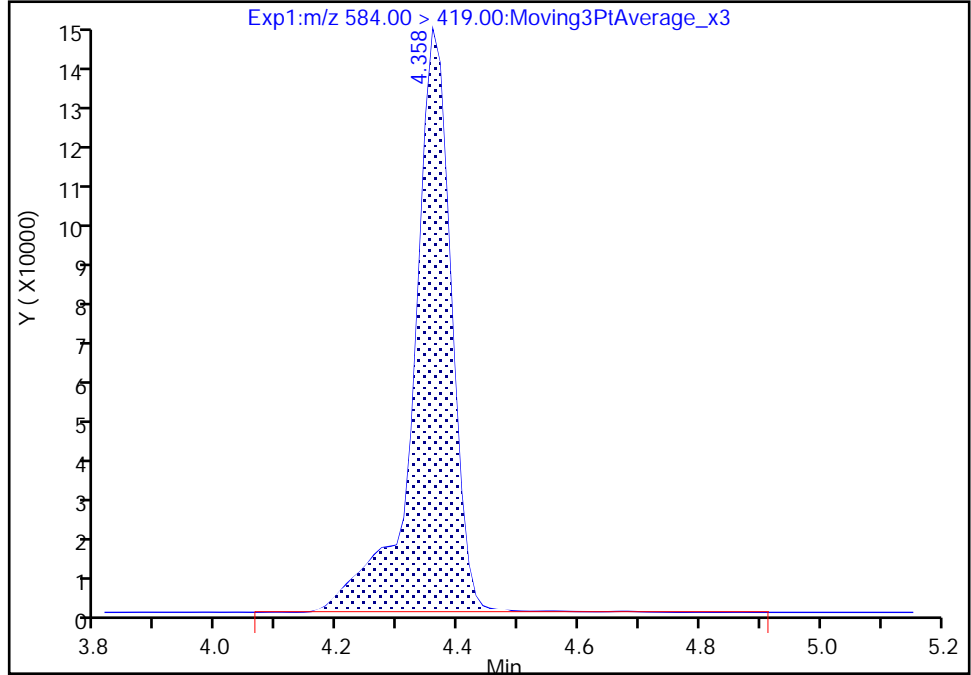
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

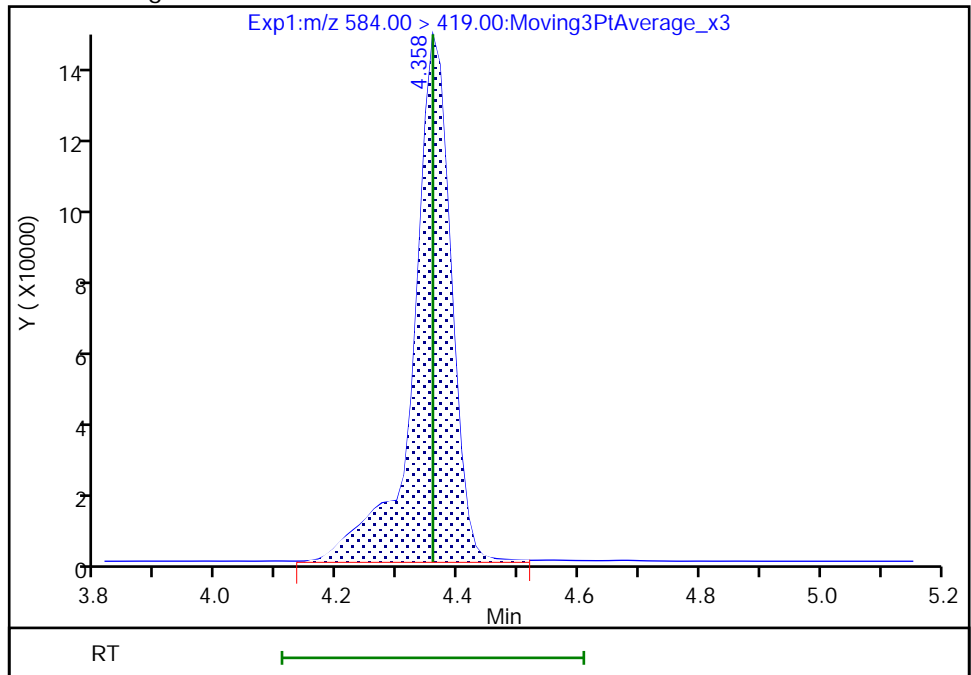
RT: 4.36
Area: 639205
Amount: 2.450773
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 635414
Amount: 2.443733
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:46:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

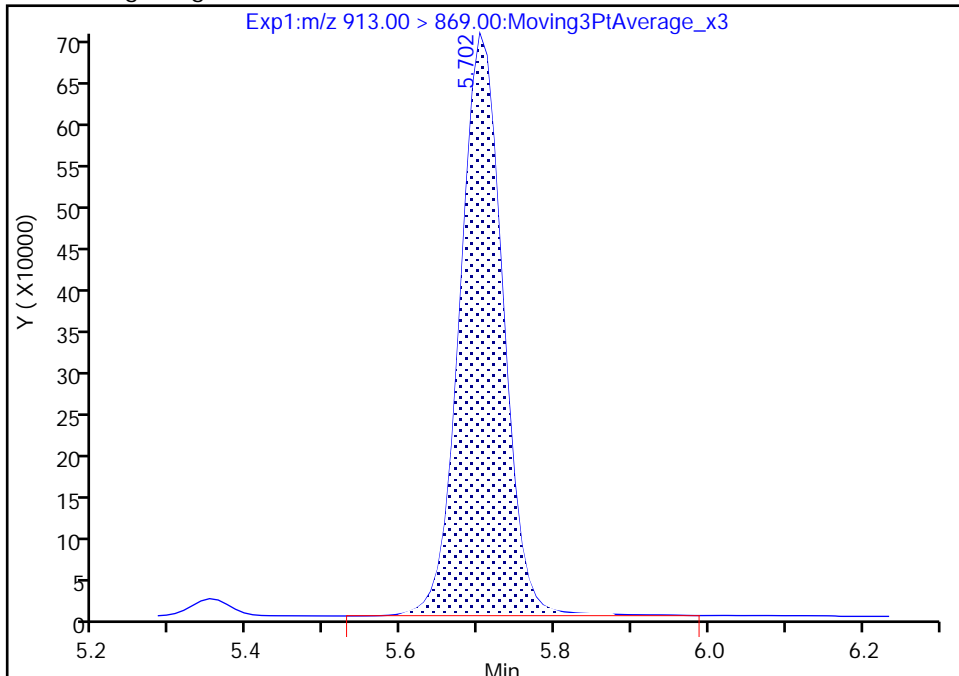
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

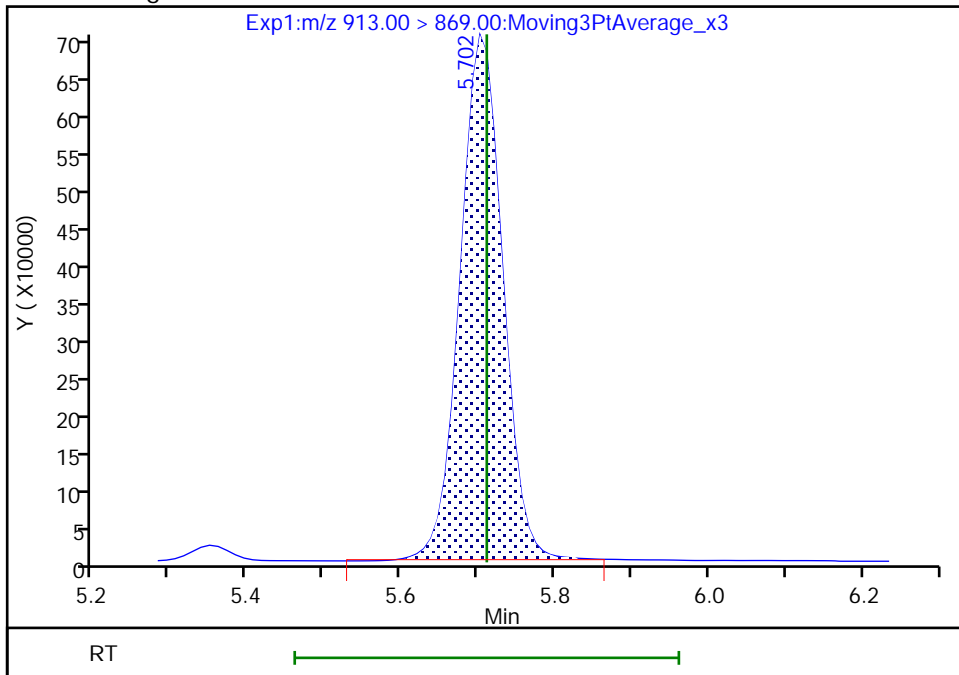
RT: 5.70
Area: 2733159
Amount: 2.426996
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 2725859
Amount: 2.427417
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:47:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Jan-2023 18:23:53 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-010 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:49 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 12:27:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.605	1965657	1.29	104	14395	
2 Perfluorobutanoic acid	212.90 > 169.00	2.086	2.094	-0.008	1.000	14409984	9.63	96.3	1354	
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1648533	1.34	107	7918	
4 Perfluoropentanoic acid	262.90 > 219.00	2.384	2.370	0.014	1.000	12853538	8.51	85.1	428	
D 47 13C3 PFBS	301.90 > 80.00	2.411	2.384	0.027	0.700	1581618	1.17	101	153537	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.000	12374636	8.49	Target=1.99	96.0	18435
	298.90 > 99.00	2.411	2.384	0.027	1.000	6207197		1.99(0.99-2.98)	96.0	4301
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.694	2.669	0.025	1.000	3035667	9.30	99.5	24016	
D 60 M2-4:2 FTS	329.00 > 81.00	2.694	2.669	0.025	0.782	128831	1.18	101	217	M
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.793	1605635	1.26	101	7687	
6 Perfluorohexanoic acid	313.00 > 269.00	2.731	2.706	0.025	1.000	11773517	8.70	Target=13.02	87.0	2296
	313.00 > 119.00	2.731	2.706	0.025	1.000	899999		13.08(6.51-19.53)	87.0	1364
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.883	10642645	9.33	Target=2.73	99.5	8786
	349.00 > 99.00	2.731	2.706	0.025	0.883	4035274		2.64(1.37-4.10)	99.5	7310
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.844	2.806	0.038	1.000	2379250	9.54	95.4	25972	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.844	2.806	0.038	0.825	311994	1.41		113	1631	
D 11 18O2 PFHxS										
403.00 > 84.00	3.093	3.069	0.024	0.898	1090521	1.11		94.0	8419	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.093	3.069	0.024	1.000	9653257	9.54	Target=3.13	105	5437	M
399.00 > 99.00	3.093	3.069	0.024	1.000	2880270		3.35(1.57-4.70)	105	3359	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.093	3.069	0.024	0.898	1632836	1.28		102	9937	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.093	3.069	0.024	1.000	12316130	8.85	Target=3.92	88.5	2253	
363.00 > 169.00	3.093	3.069	0.024	1.000	3167230		3.89(1.96-5.88)	88.5	5815	
77 DONA										
377.00 > 251.00	3.138	3.104	0.034	0.834	28682102	8.23	Target=3.04	87.4	16289	
377.00 > 85.00	3.127	3.104	0.023	0.831	10167455		2.82(1.52-4.56)	87.4	8740	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.437	3.417	0.020	0.997	176307	1.14		96.0	618	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.437	3.417	0.020	1.000	3014732	8.87		93.5	2195	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.437	3.417	0.020	0.913	7913887	8.95	Target=4.66	94.1	11851	
449.00 > 99.00	3.437	3.417	0.020	0.913	1664130		4.76(2.33-6.99)	94.1	4721	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.426	0.020	1.000	1647382	1.22		97.4	8329	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.426	0.020		1651748	1.25			7227	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.426	0.020	1.000	12889938	8.99	Target=3.01	89.9	978	
413.00 > 169.00	3.446	3.426	0.020	1.000	4428645		2.91(1.50-4.51)	89.9	10798	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.754	0.010	1.092	725859	1.22		102	1638	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.754	0.010	1.000	6568603	8.90	Target=4.13	95.9	3898	M
499.00 > 99.00	3.764	3.754	0.010	1.000	1542453		4.26(2.07-6.20)	95.9	2819	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.774	0.009	1.000	13704243	9.70	Target=8.58	97.0	2279	
463.00 > 169.00	3.783	3.774	0.009	1.000	1591136		8.61(4.29-12.87)	97.0	11153	
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.774	0.009	1.098	1728974	1.31		105	6961	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	16112575	9.15		98.1	14586	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	5228531	8.53	Target=2.32	88.9	9580	
549.00 > 99.00	4.052	4.043	0.009	1.077	2211833		2.36(1.16-3.48)	88.9	14841	
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.185	1693037	1.25		100	10311	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.000	13531217	9.34	Target=10.61	93.4	4280	
513.00 > 169.00	4.084	4.074	0.010	1.000	1249373		10.83(5.30-15.91)	93.4	4066	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.185	249058	1.29		107	942	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	3193567	8.46		88.4	22417	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	11060932	9.54		95.4	6384	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	1441602	1.31		105	4351	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.226	343314	1.29		103	203	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	2439119	9.85		98.5	1766	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.148	4241647	9.28	Target=2.46	96.3	5498	
599.00 > 99.00	4.322	4.322	0.0	1.148	1675030		2.53(1.23-3.69)	96.3	3863	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.261	1432402	1.23		98.1	4841	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	11599574	9.27	Target=11.25	92.7	2967	
563.00 > 169.00	4.346	4.346	0.0	1.000	1048701		11.06(5.62-16.87)	92.7	5498	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.370	4.358	0.012	1.003	2286410	9.88		98.8	1292	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.265	311422	1.22		97.5	656	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.180	22948092	8.42		89.4	10969	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	10906213	8.96	Target=8.15	89.6	1030	
613.00 > 169.00	4.583	4.584	-0.001	1.000	1298890		8.40(4.08-12.23)	89.6	4738	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.330	1494839	1.28		102	5082	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	2019665	8.47		87.8	7740	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.265	1612015	8.69	Target=0.53	89.7	9271	
699.00 > 99.00	4.760	4.770	-0.010	1.265	3182306		0.51(0.26-0.79)	89.7	16291	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.799	4.799	0.0	1.047	11366065	9.35	Target=6.29	93.5	1139	
663.00 > 169.00	4.799	4.799	0.0	1.047	1804481		6.30(3.14-9.43)	93.5	5348	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.997	4.998	-0.001	1.000	1174671	9.53	Target=0.93	95.3	4564	
713.00 > 219.00	4.997	4.998	-0.001	1.000	1380504		0.85(0.46-1.39)	95.3	10672	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.450	1234482	1.23		98.1	4400	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.362	5.362	0.0	1.002	10994952	9.84	Target=6.52	98.4	1295	
813.00 > 169.00	5.350	5.362	-0.012	1.000	1671568		6.58(3.26-9.77)	98.4	9124	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.362	-0.012	1.553	1527972	1.24		99.1	6090	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.711	0.0	1.067	9551474	9.66	Target=7.39	96.6	651	M
913.00 > 169.00	5.702	5.711	-0.009	1.066	1338542		7.14(3.69-11.08)	96.6	1211	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d

Injection Date: 11-Jan-2023 18:23:53

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

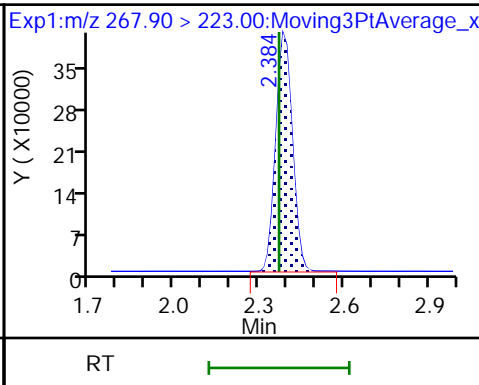
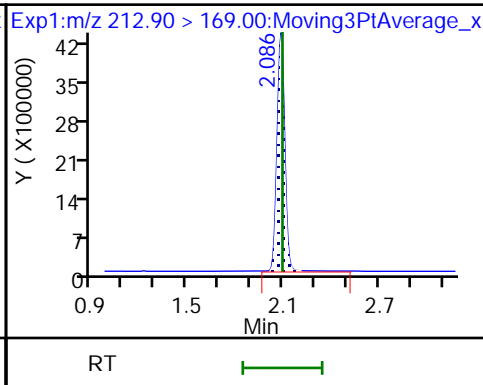
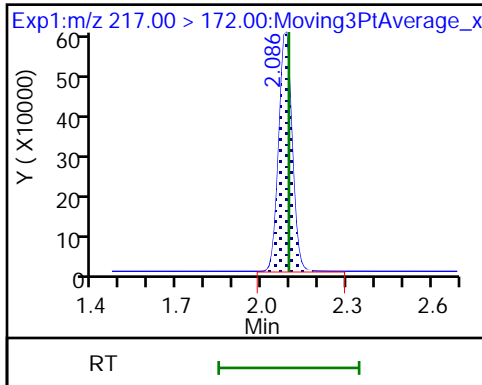
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

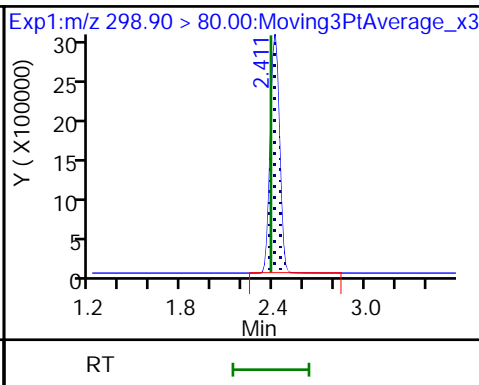
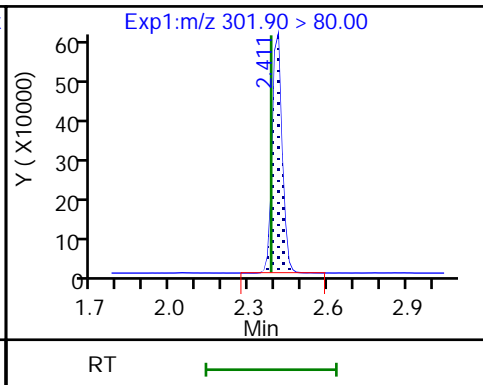
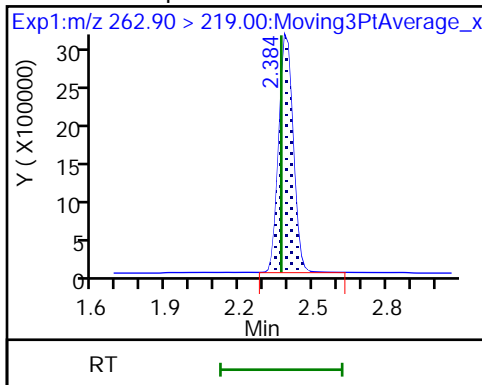
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

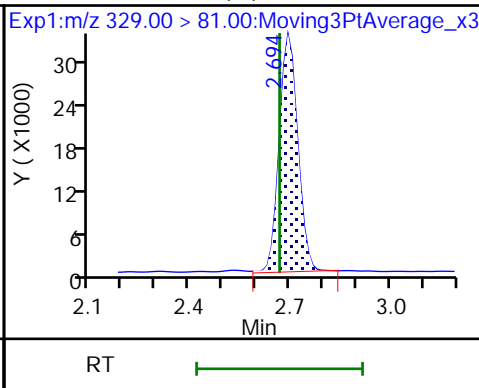
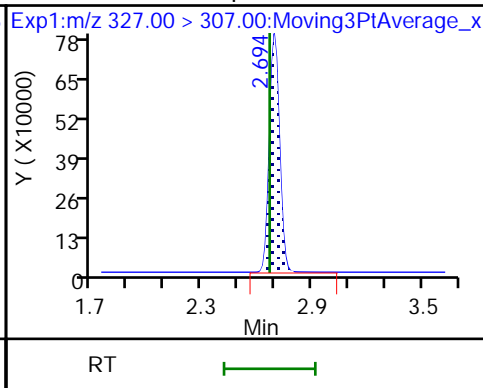
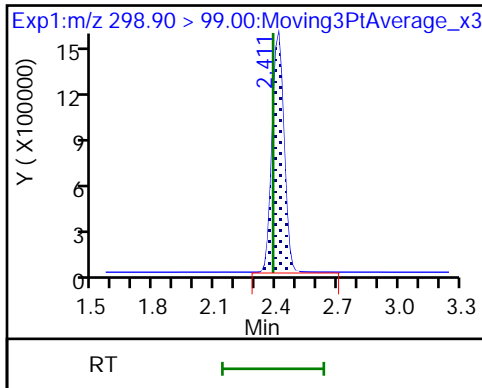
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

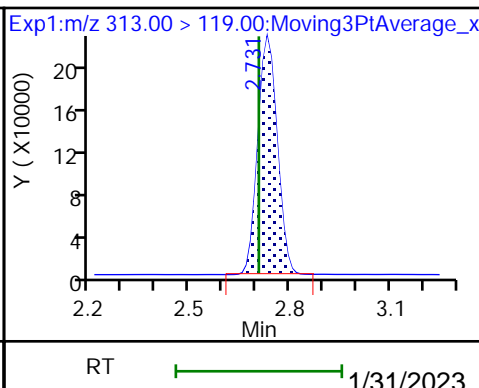
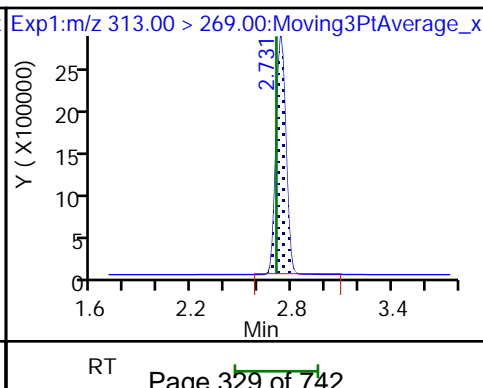
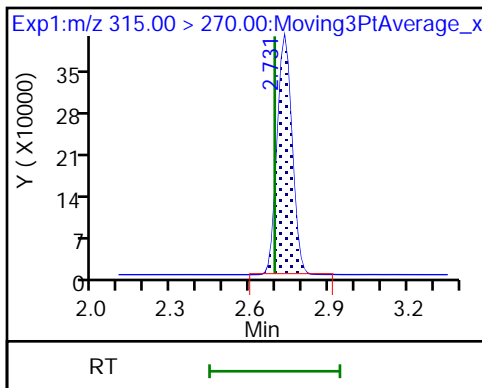
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

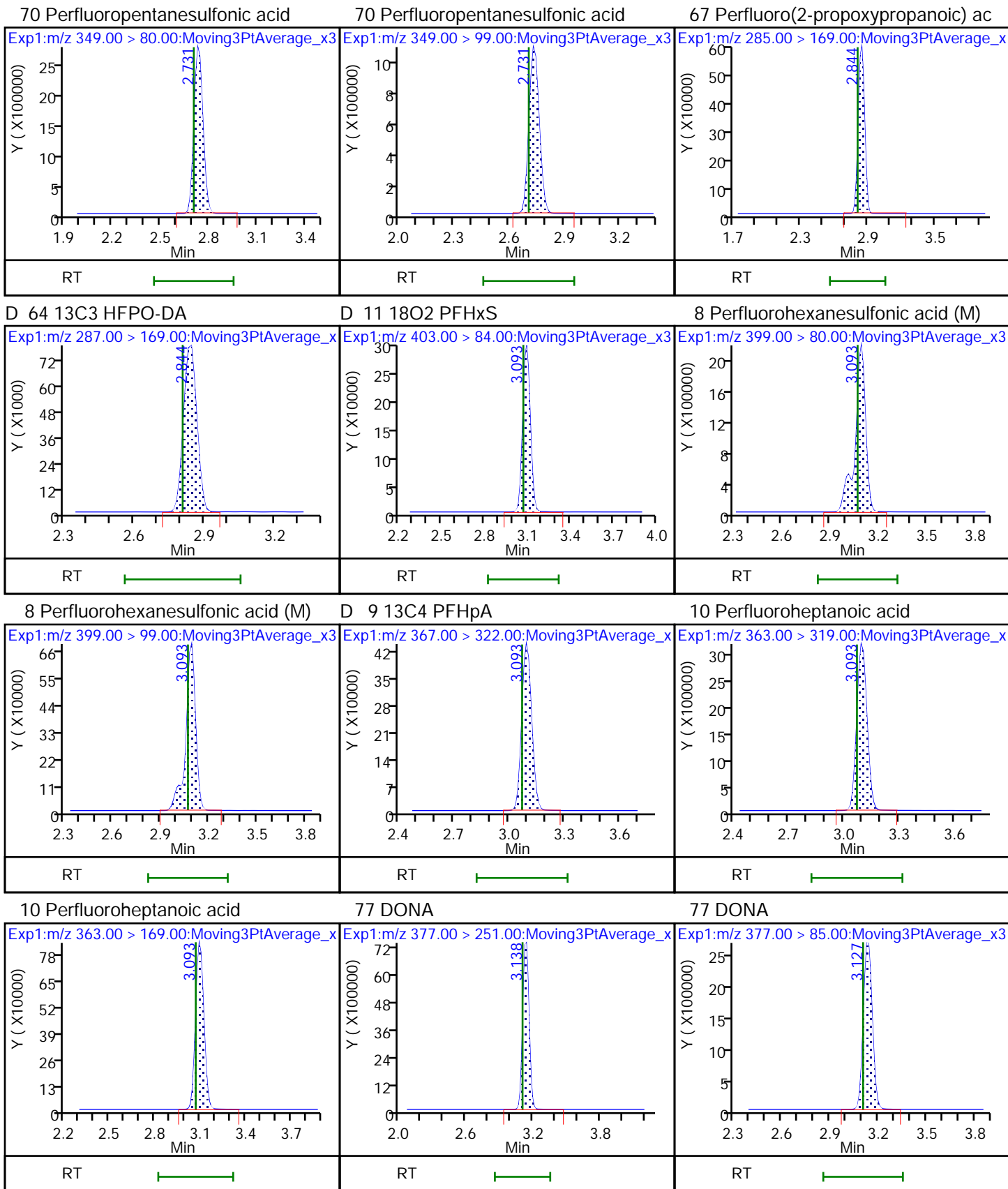


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

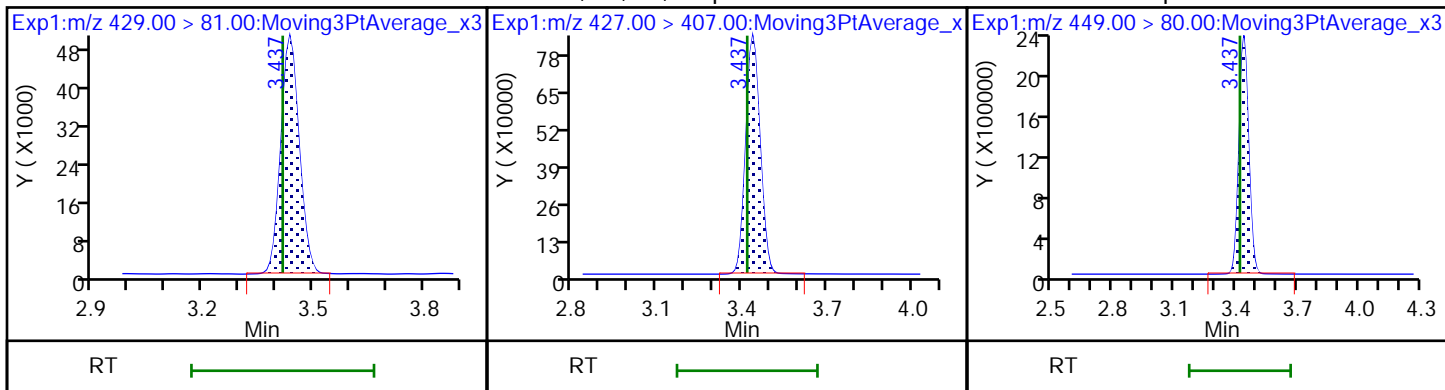




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

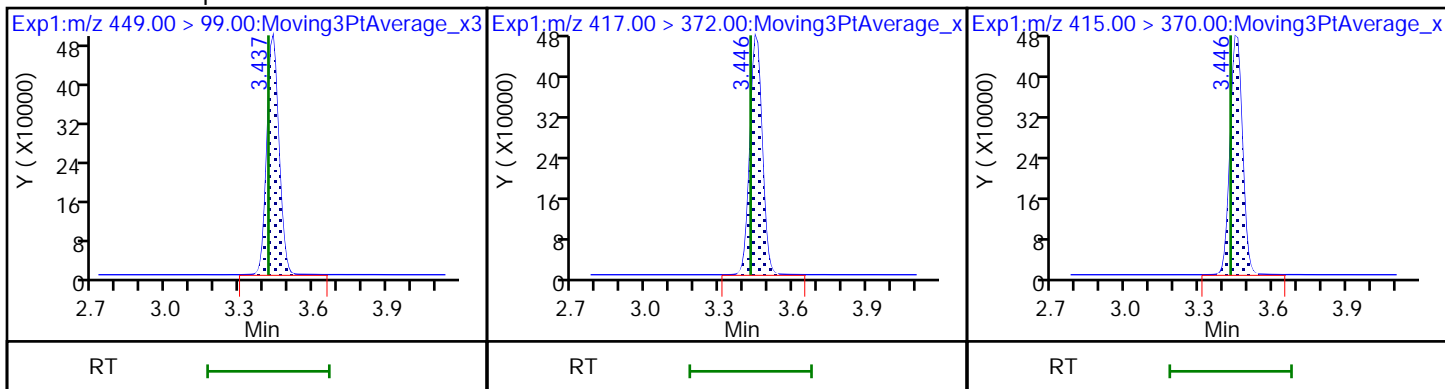
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

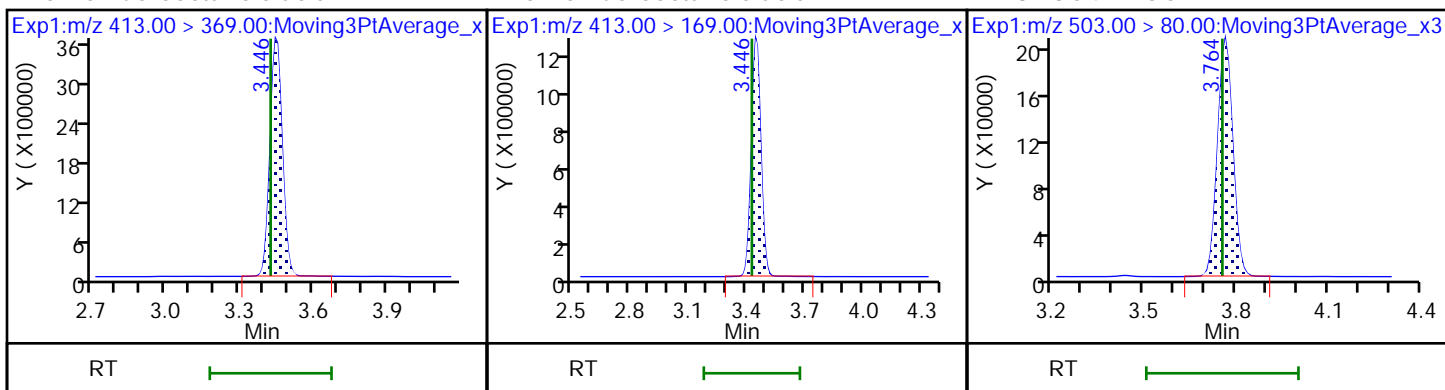
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

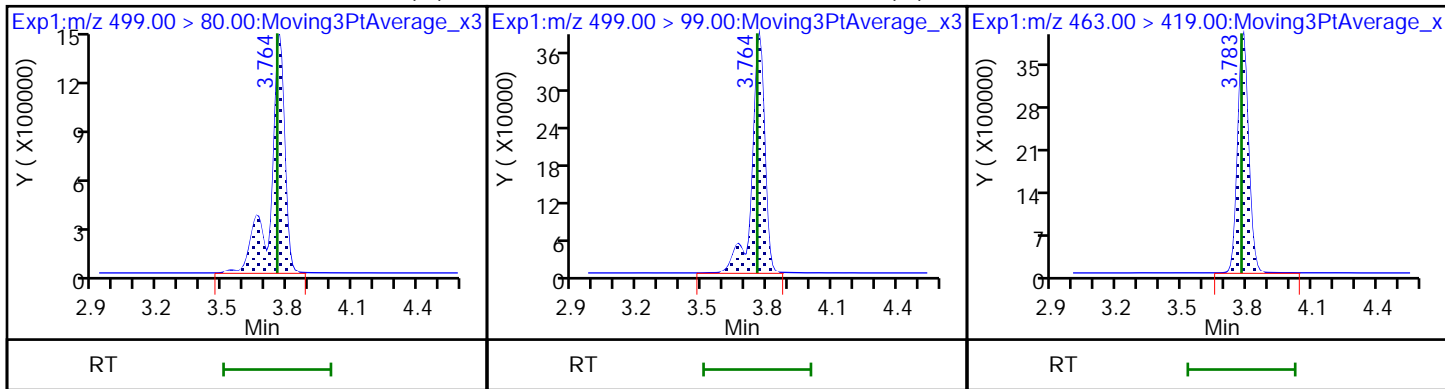
D 18 13C4 PFOS

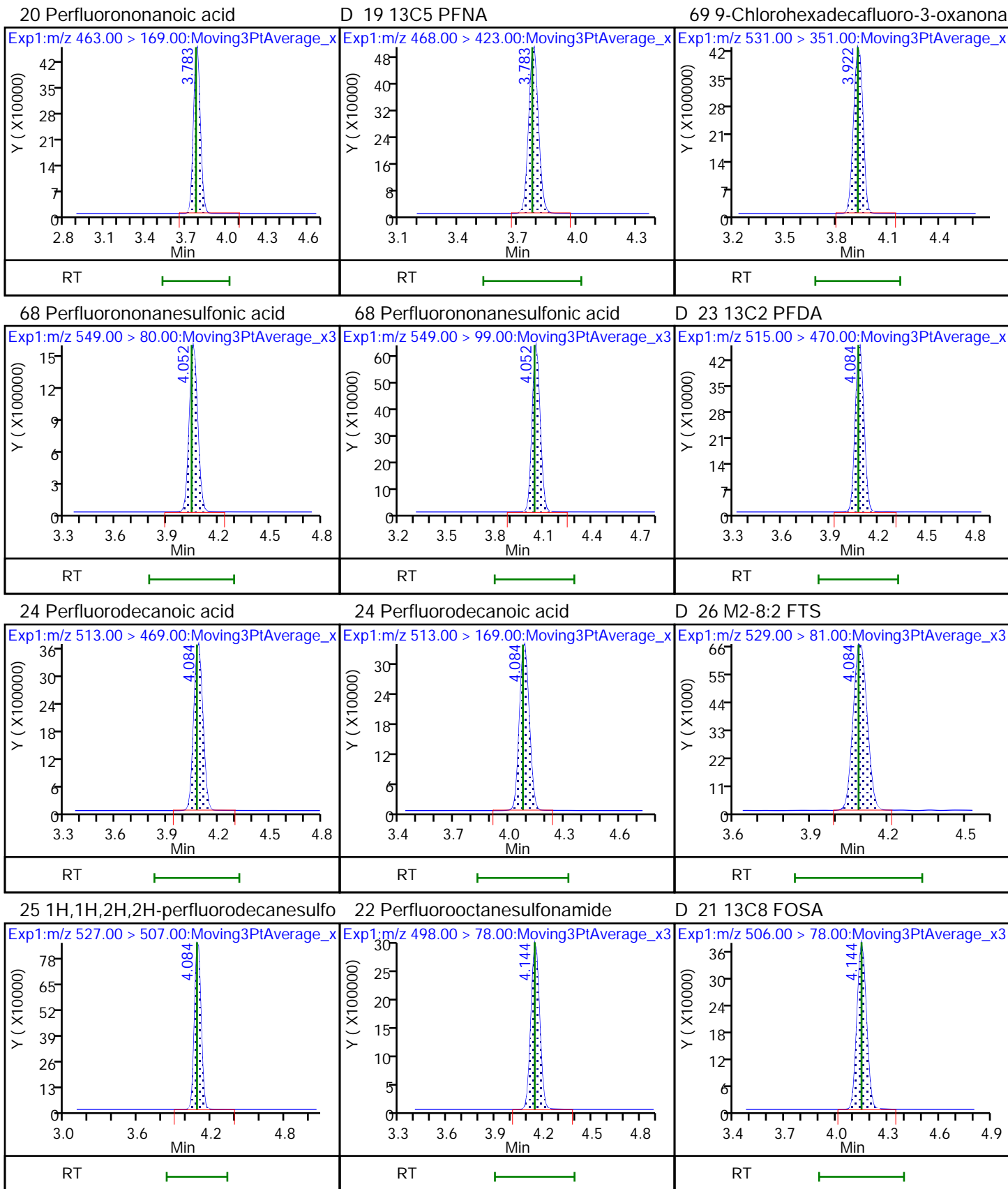


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

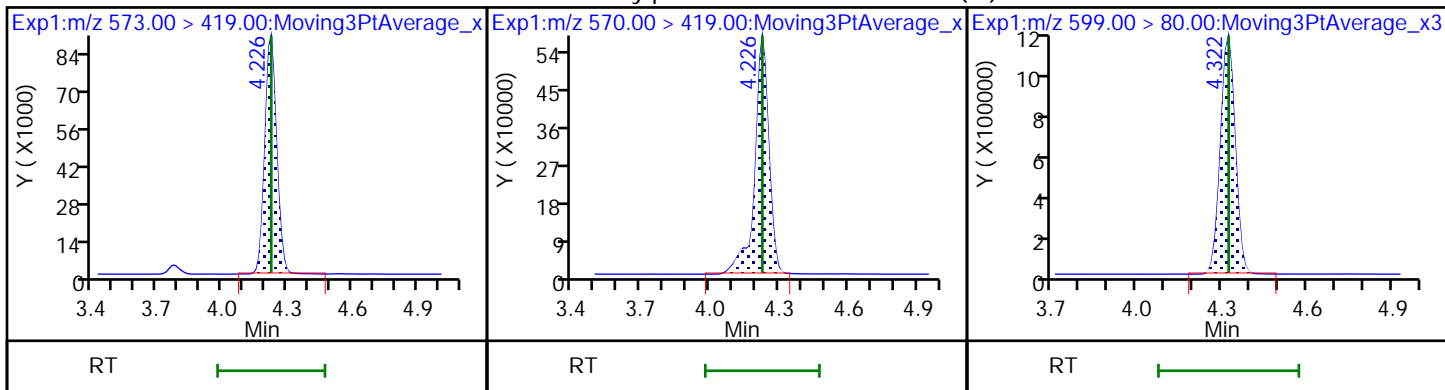
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

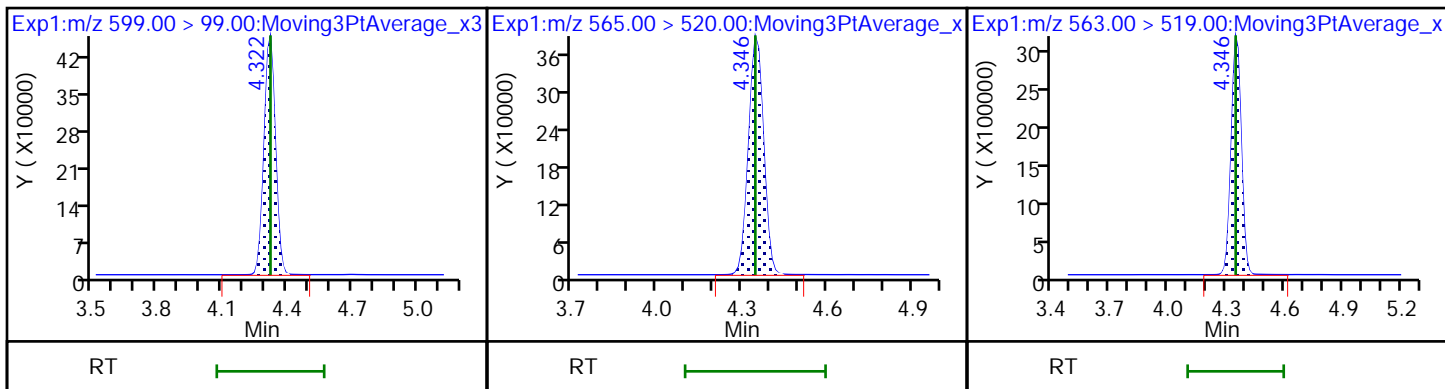
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

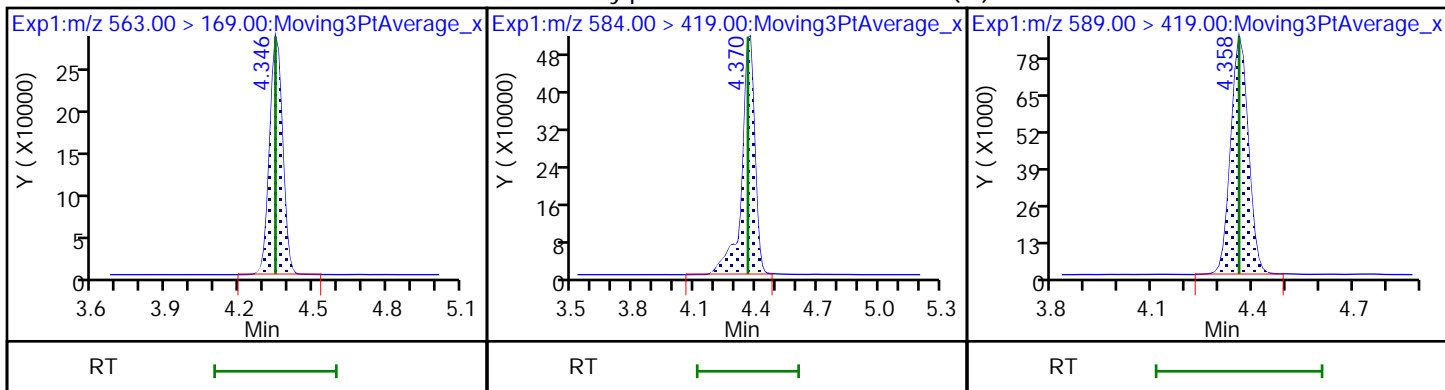
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

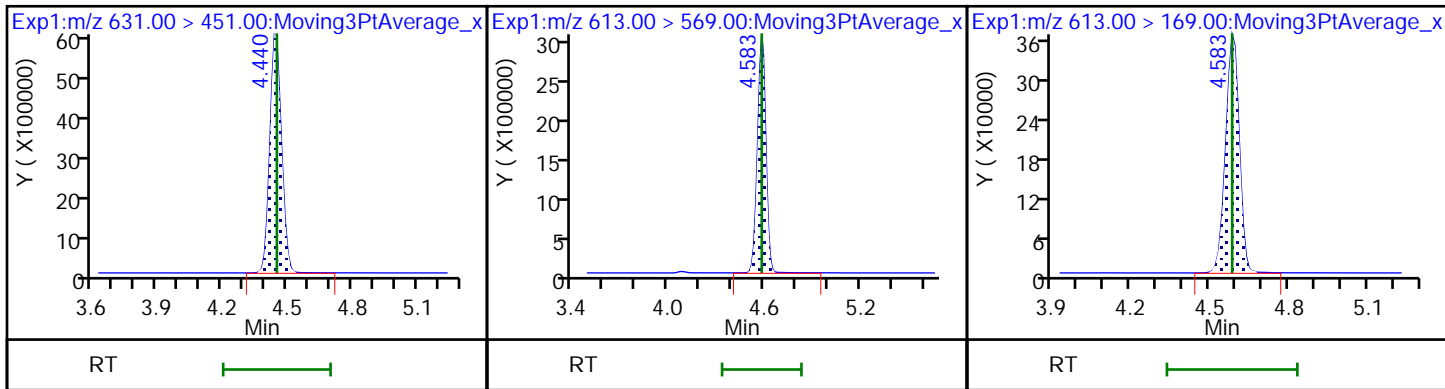
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

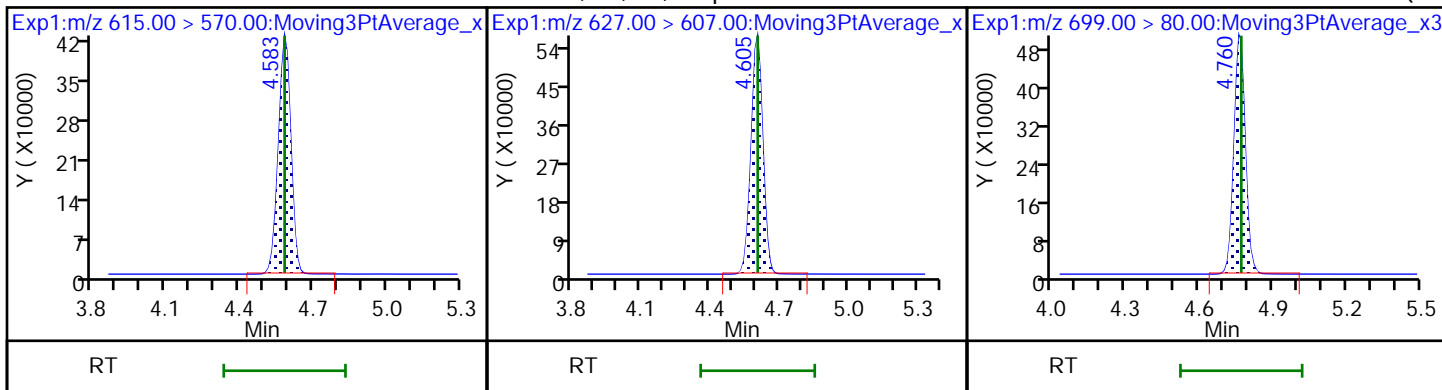
37 Perfluorododecanoic acid



D 36 13C2 PFDoA

74 1H,1H,2H,2H-perfluorododecanesul

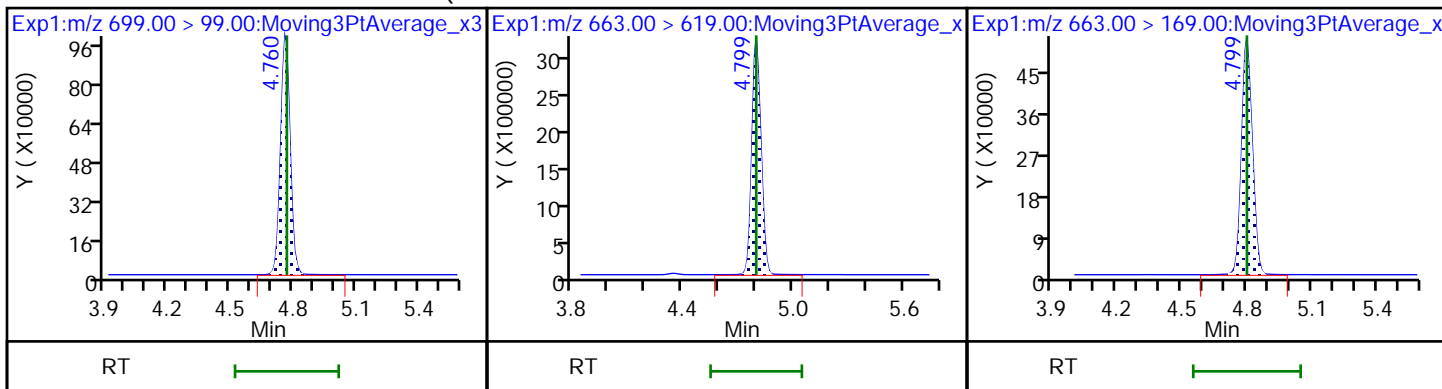
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

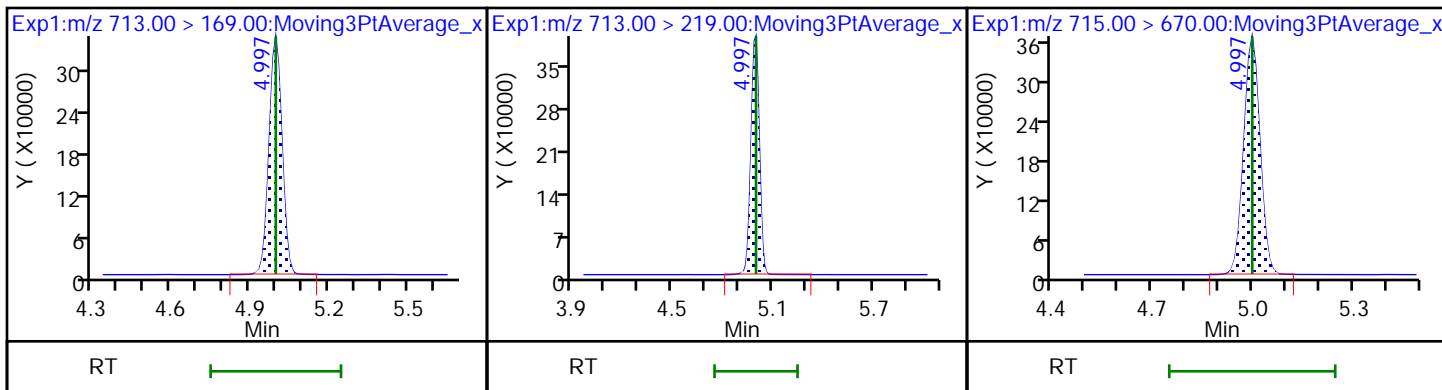
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

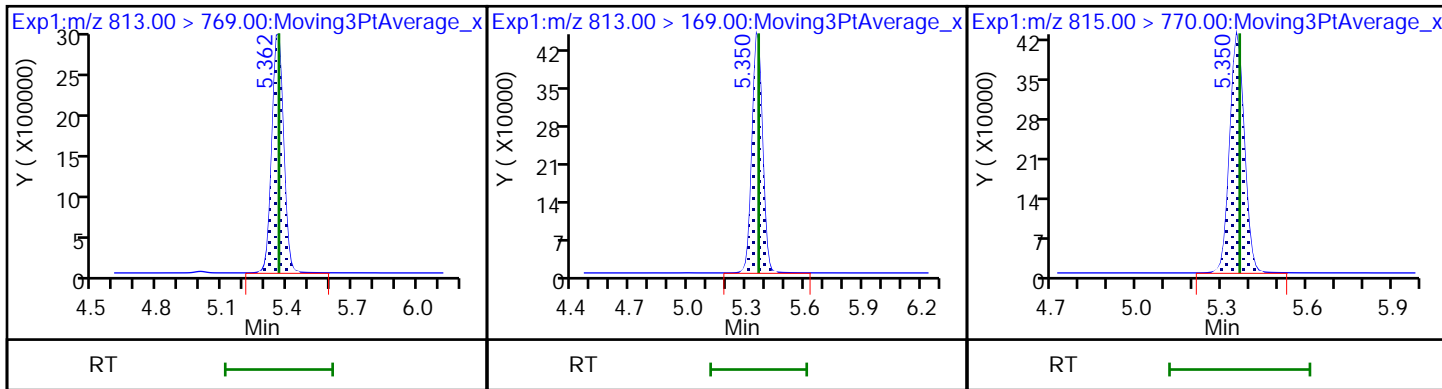
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

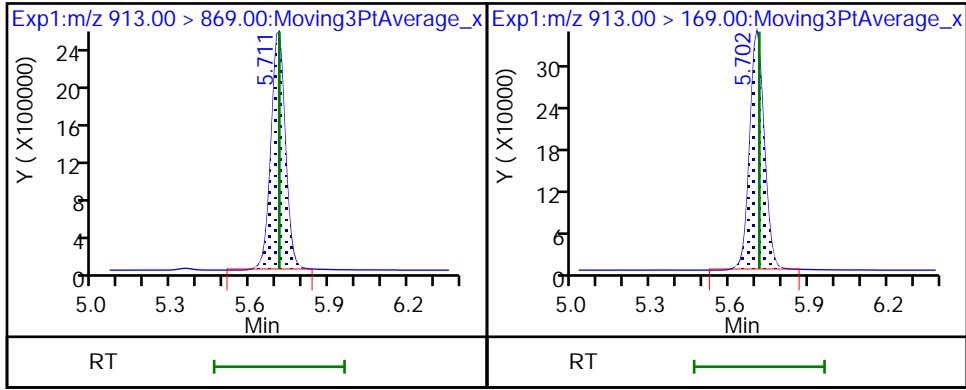
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



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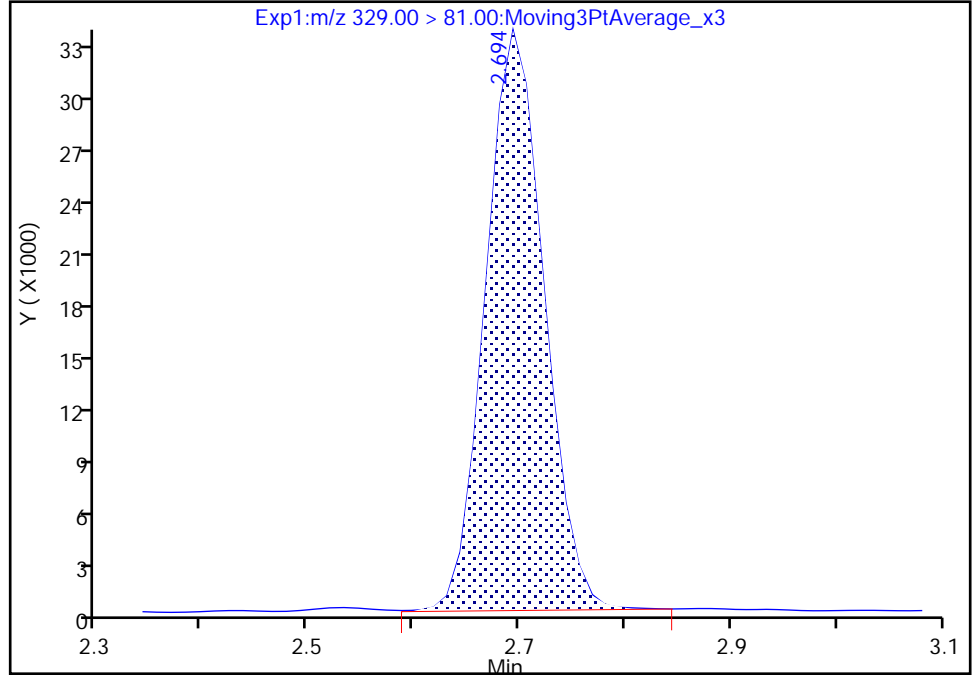
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Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

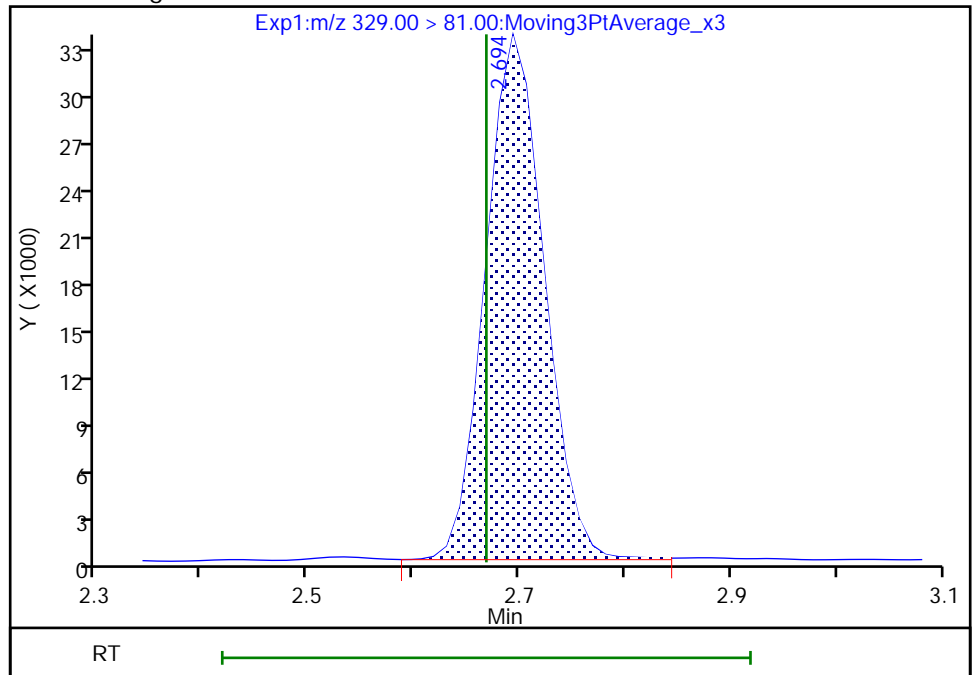
RT: 2.69
Area: 127655
Amount: 1.172834
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 128831
Amount: 1.181816
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:47:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

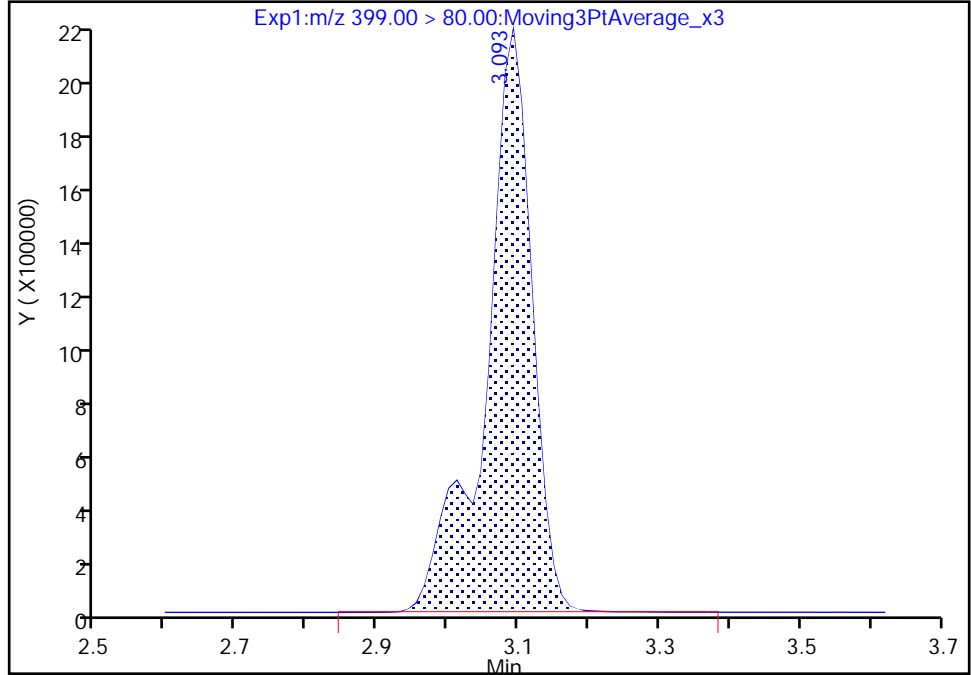
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

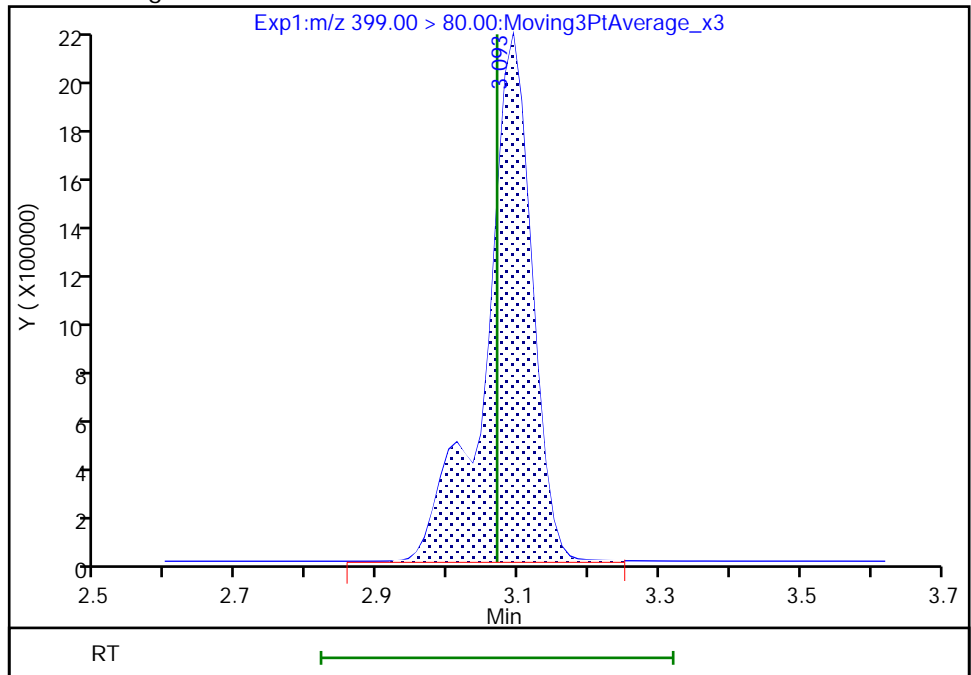
RT: 3.09
Area: 9659677
Amount: 9.541312
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 9653257
Amount: 9.536078
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:08:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

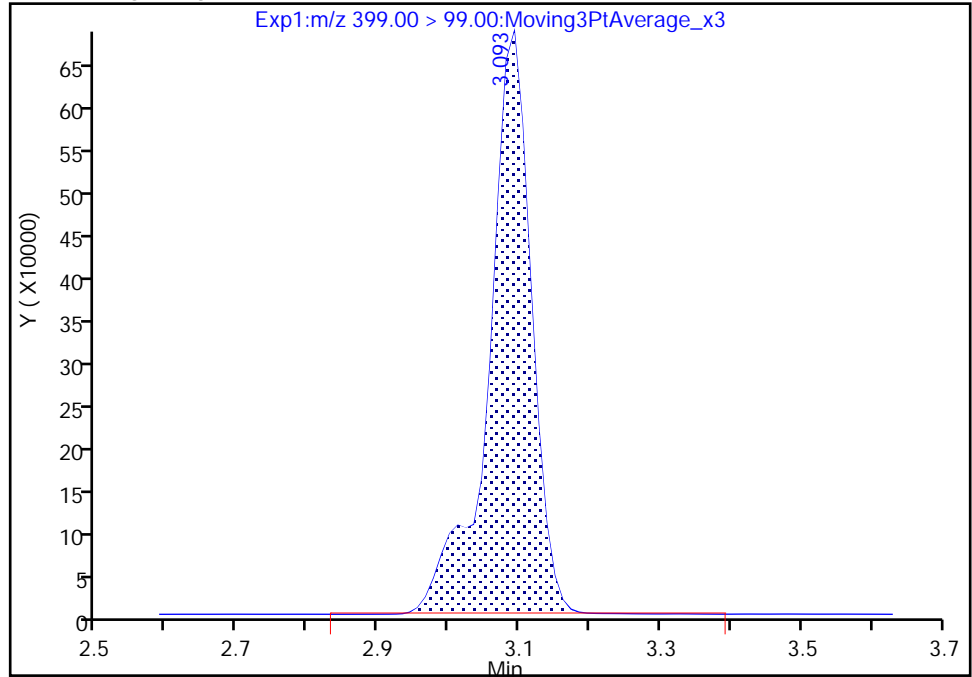
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Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

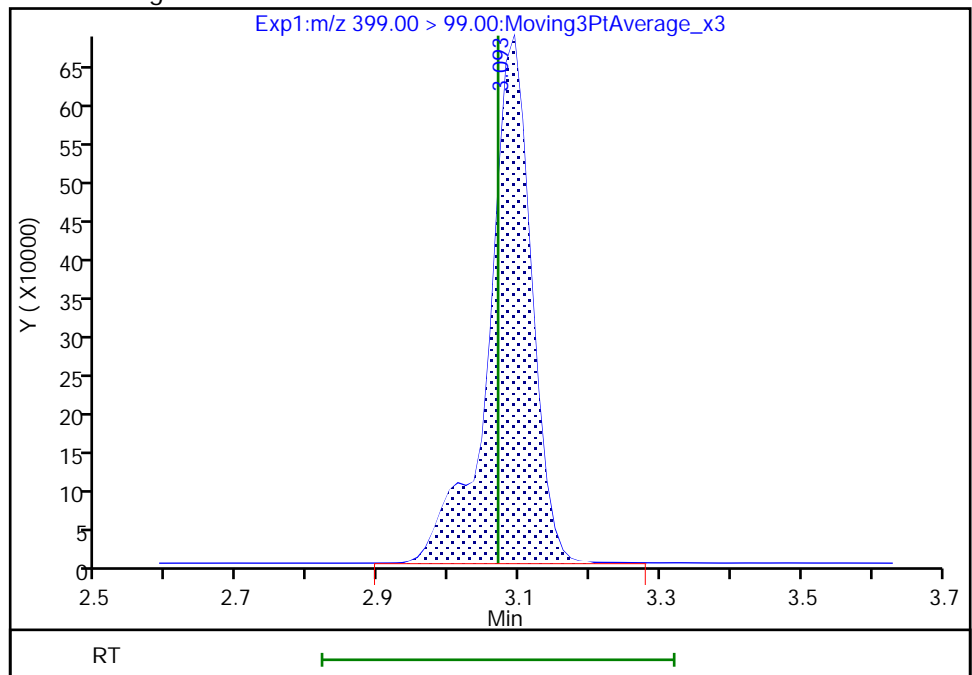
RT: 3.09
Area: 2887937
Amount: 9.541312
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2880270
Amount: 9.536078
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:08:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

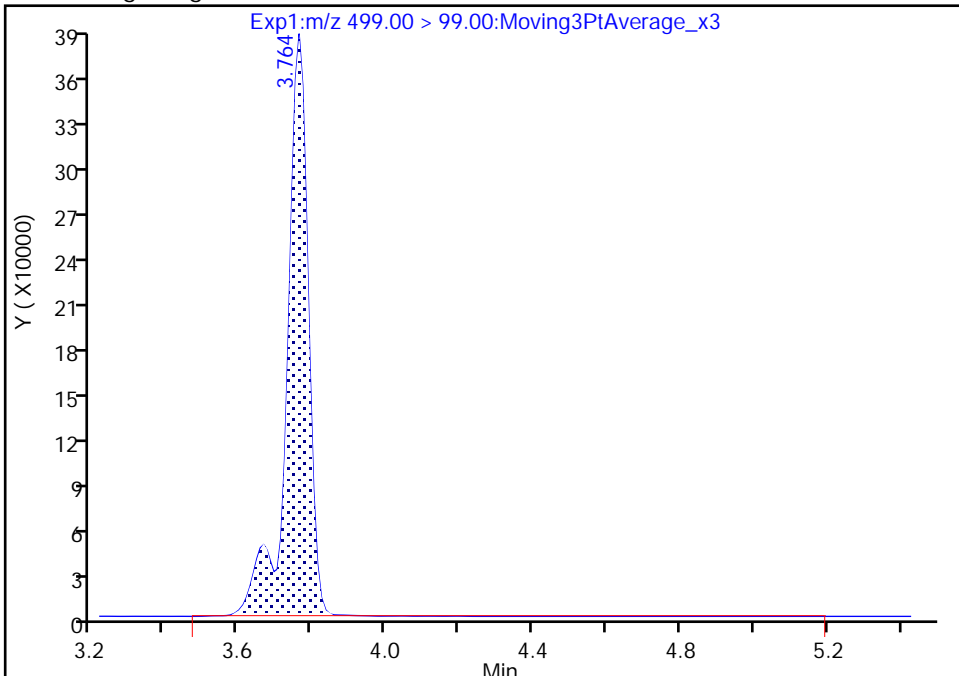
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Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

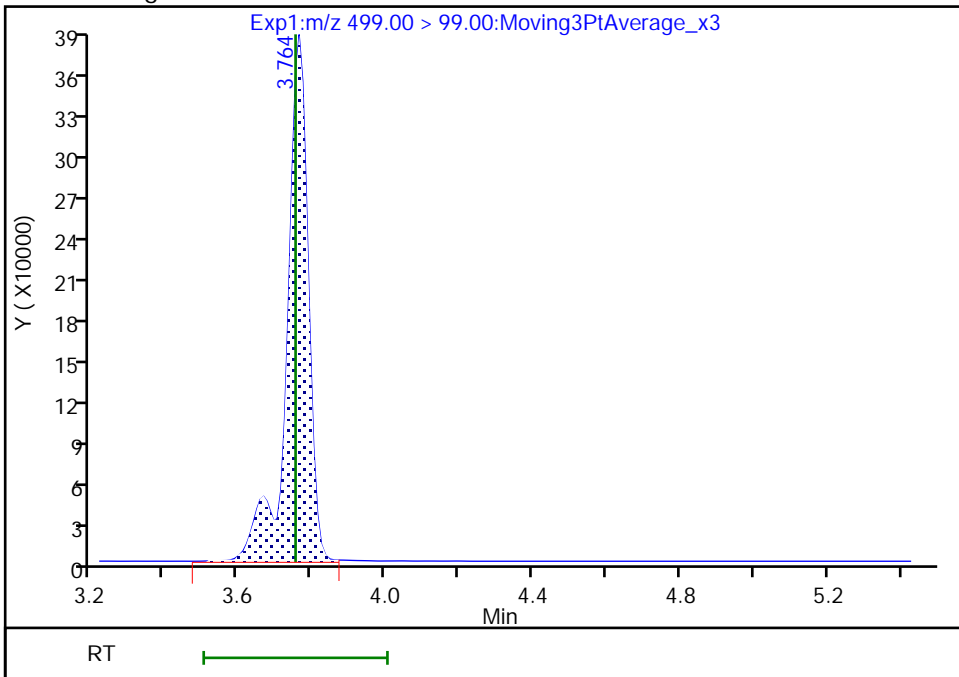
RT: 3.76
Area: 1548982
Amount: 8.914164
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1542453
Amount: 8.901775
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:48:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

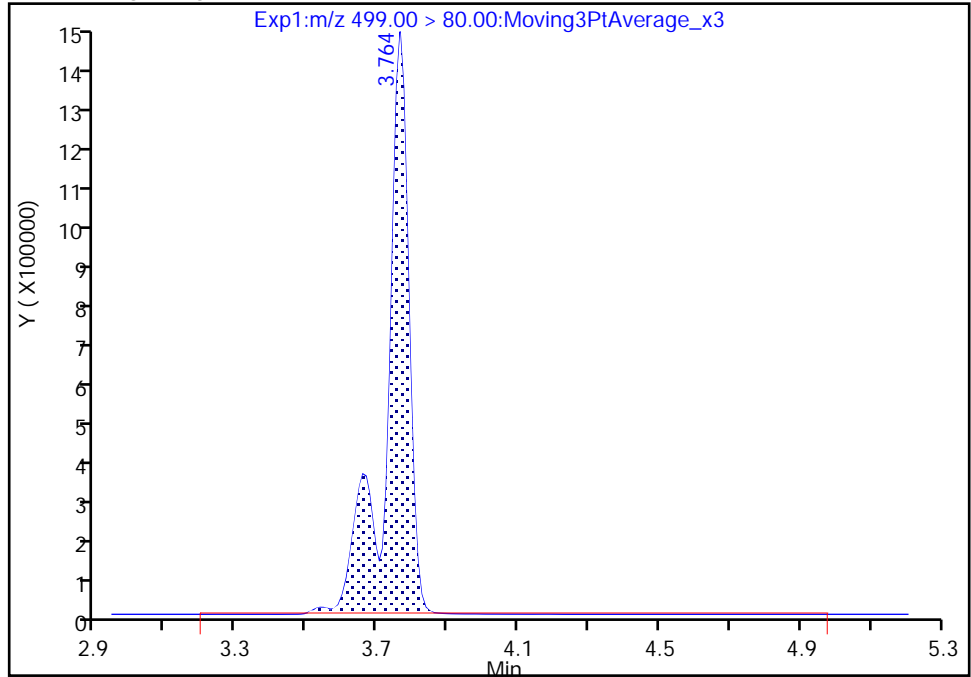
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Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

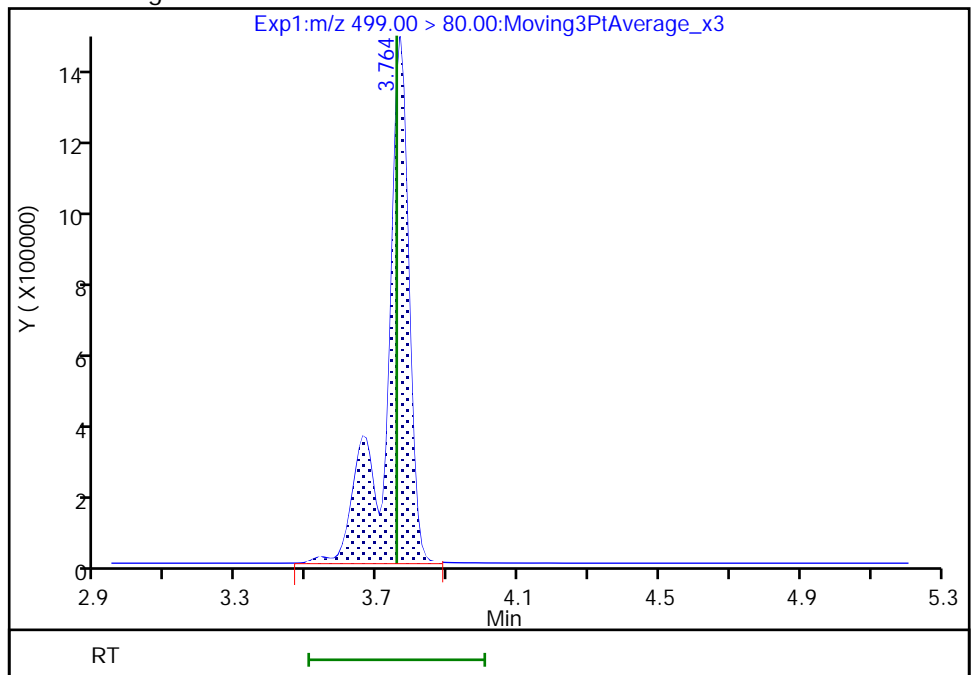
RT: 3.76
Area: 6586947
Amount: 8.914164
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 6568603
Amount: 8.901775
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:49:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

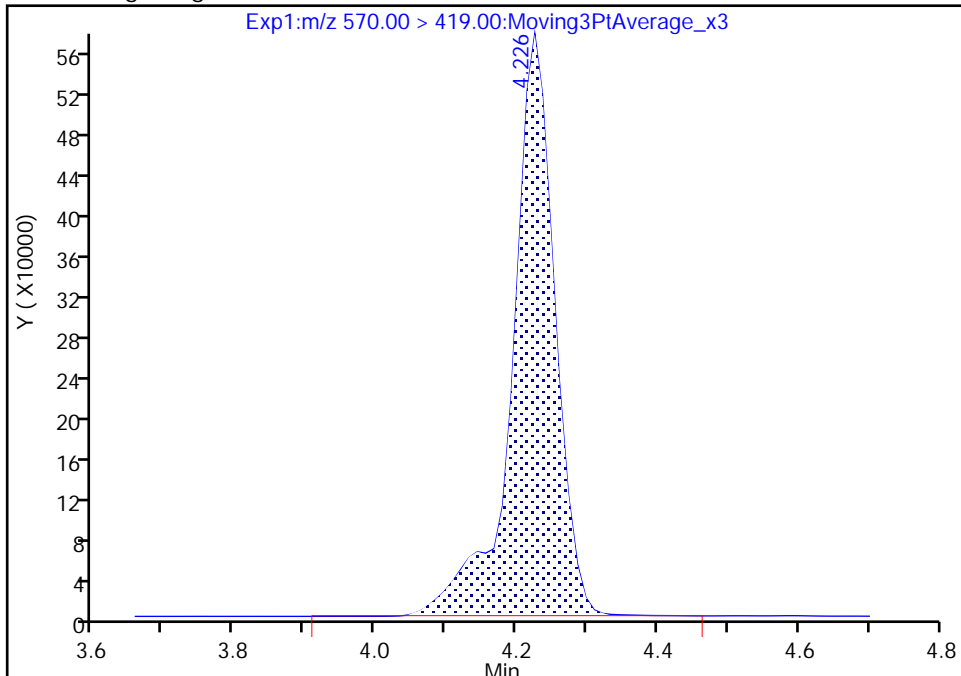
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Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

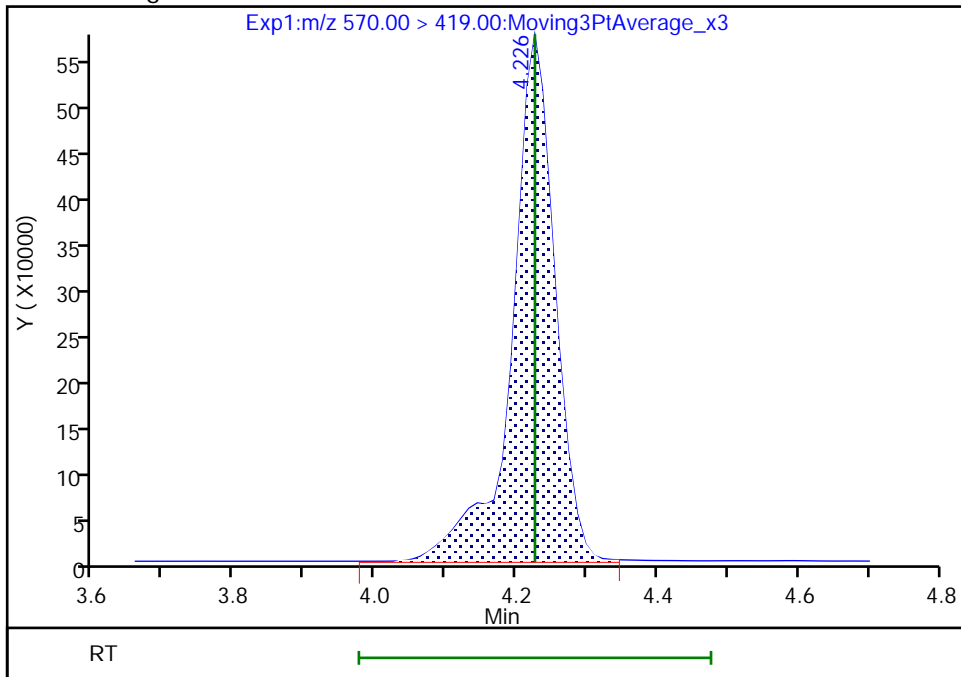
RT: 4.23
Area: 2446753
Amount: 9.869377
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 2439119
Amount: 9.849633
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:49:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 341 of 742

Eurofins Burlington

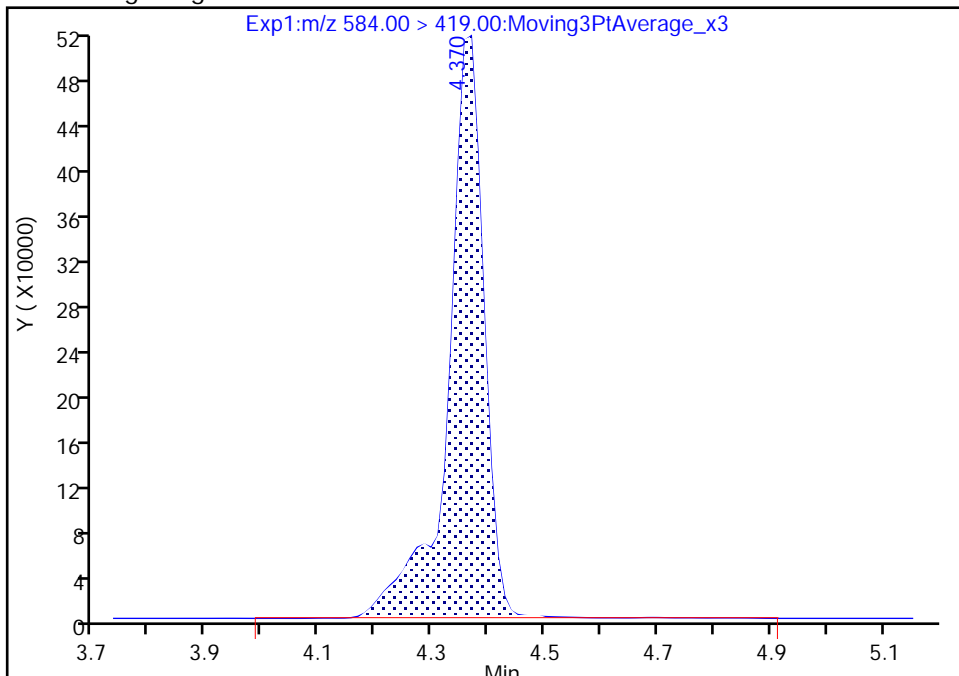
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Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

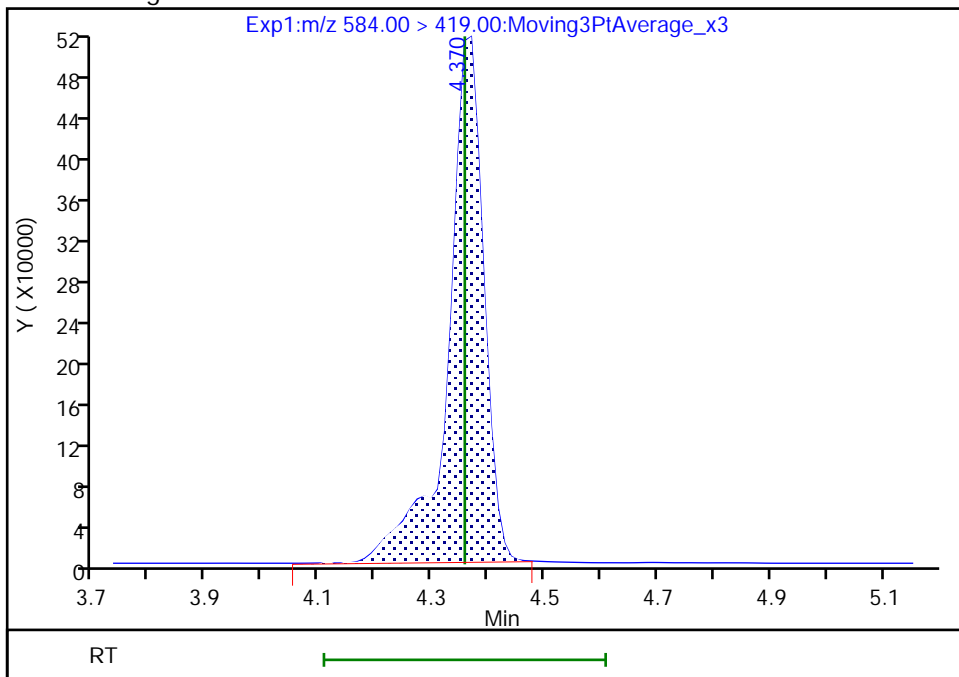
RT: 4.37
Area: 2307123
Amount: 9.946408
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 2286410
Amount: 9.877854
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:49:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

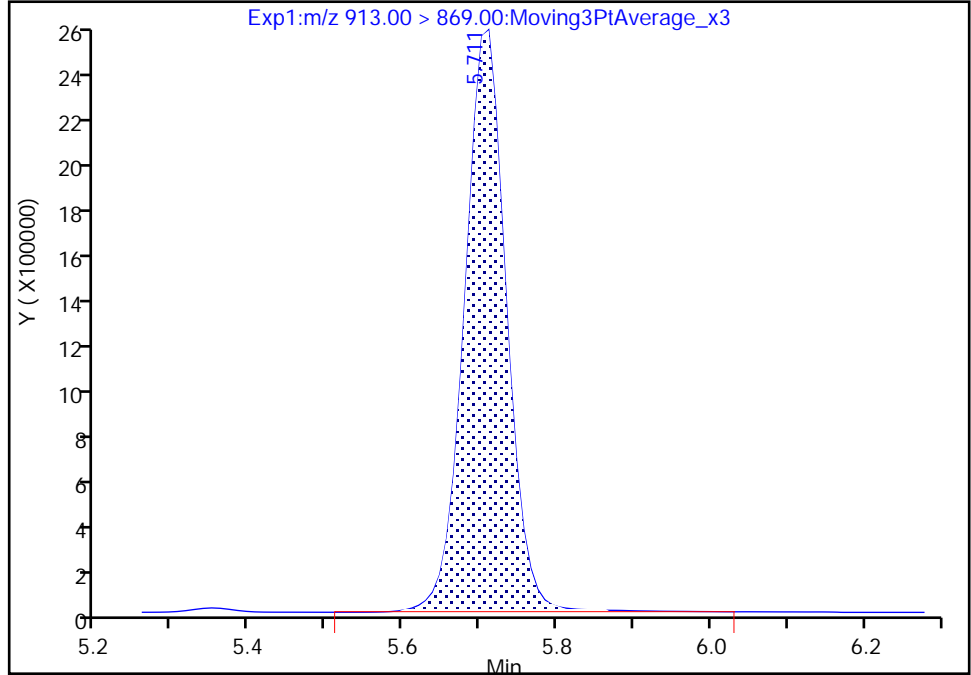
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

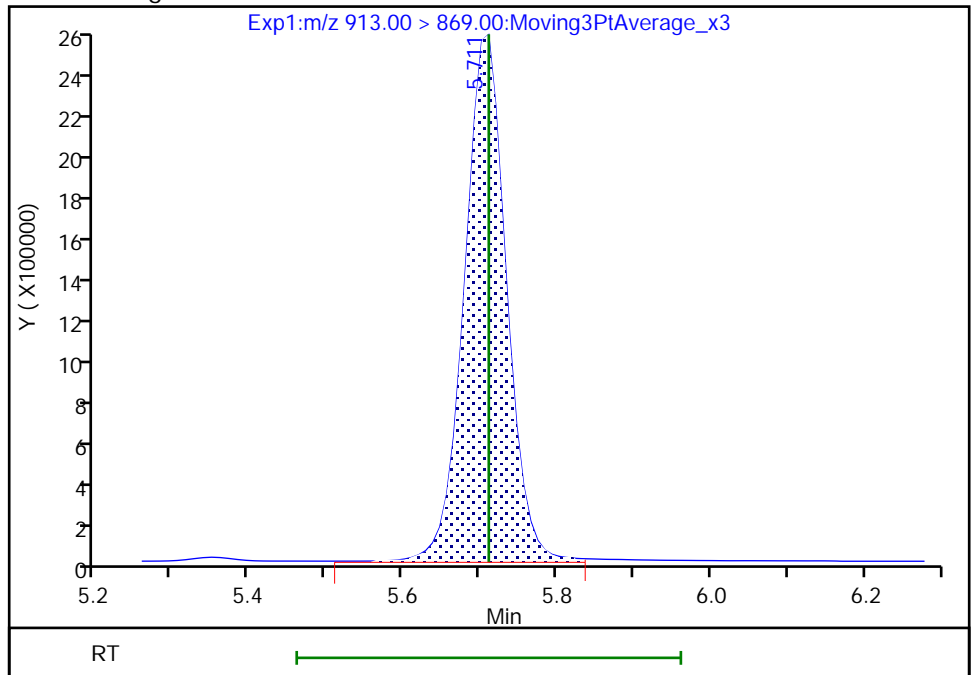
RT: 5.71
Area: 9610579
Amount: 9.697068
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 9551474
Amount: 9.660737
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:50:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

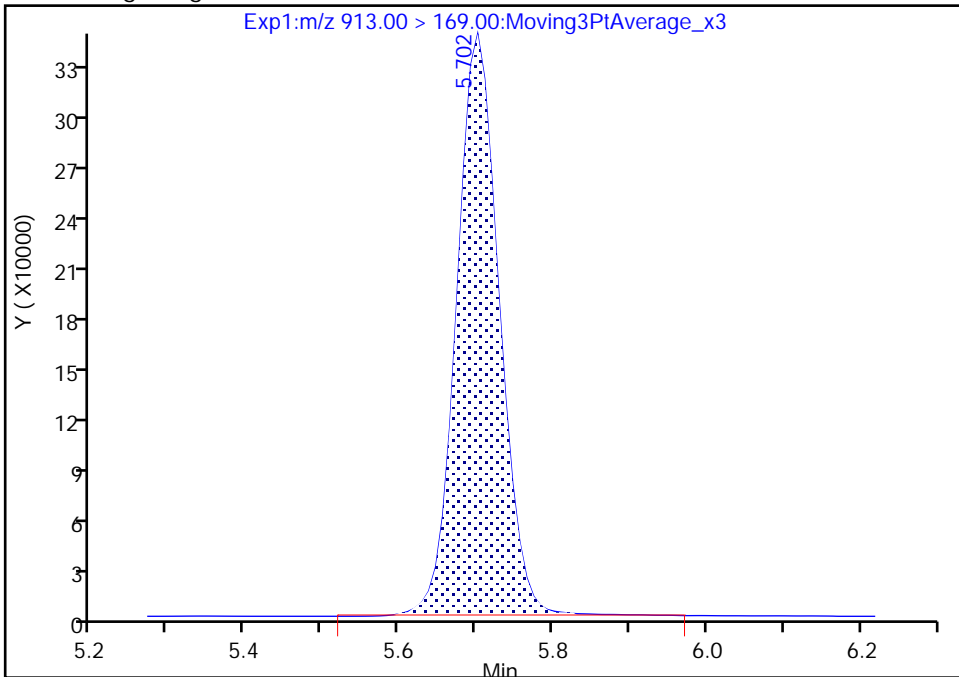
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

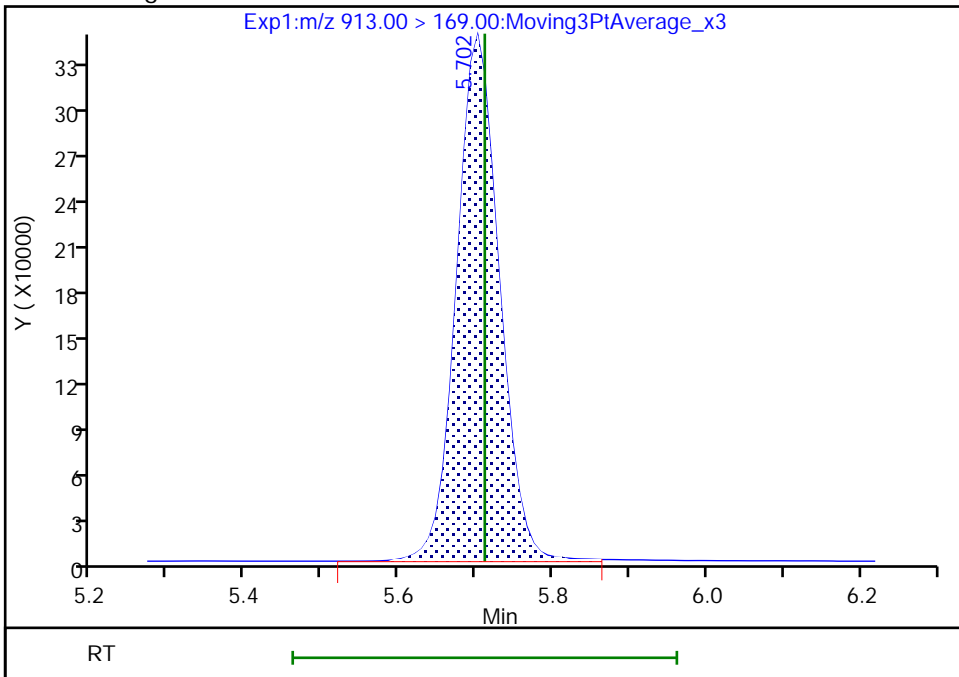
RT: 5.70
Area: 1342081
Amount: 9.697068
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 1338542
Amount: 9.660737
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:50:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Calibration

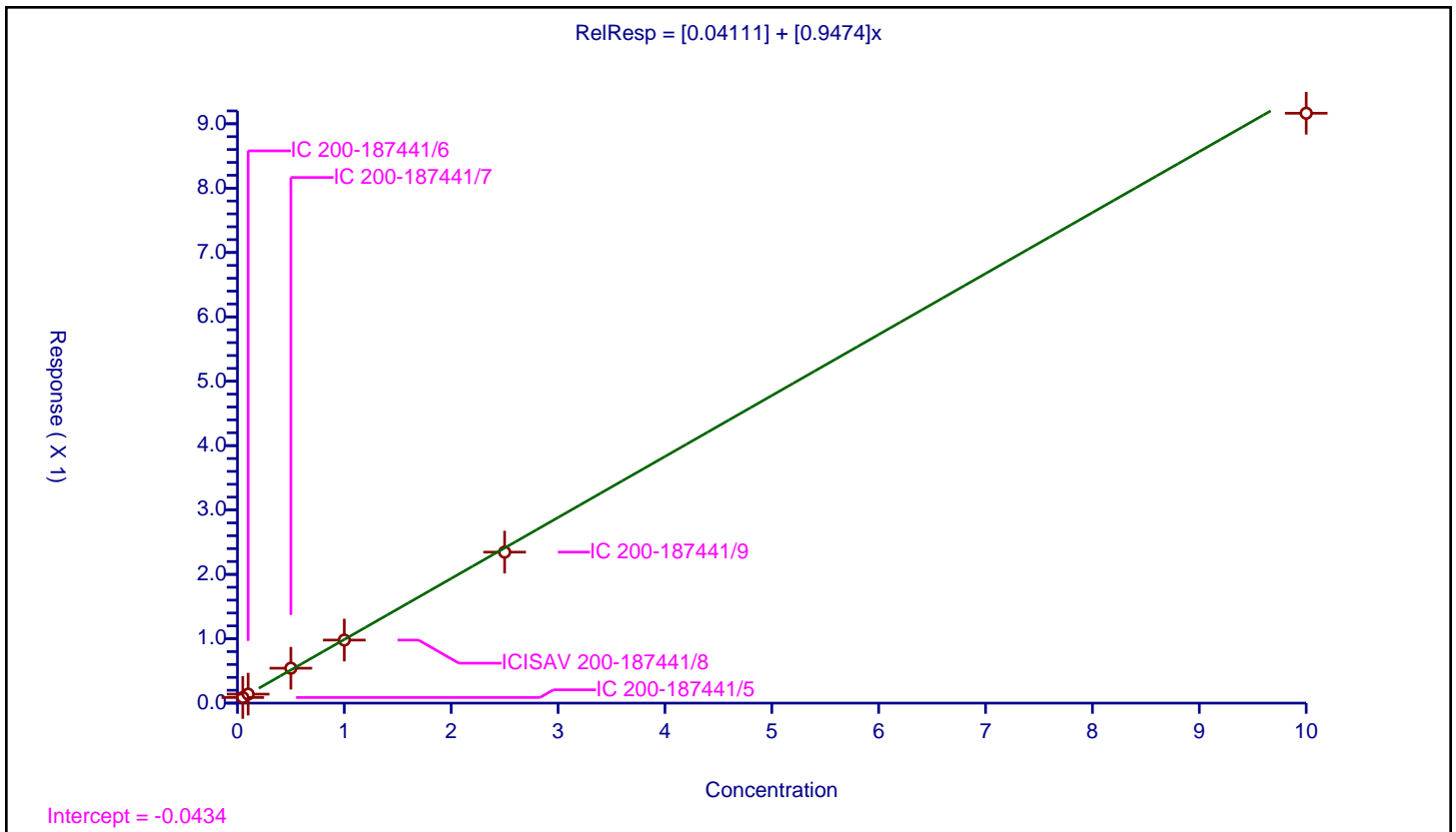
/ Perfluorobutanoic acid

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.04111
Slope:	0.9474

Error Coefficients	
Standard Error:	7570000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.08731	1.25	2034465.0	1.746196	Y
2	IC 200-187441/6	0.1	0.139673	1.25	1933662.0	1.396728	Y
3	IC 200-187441/7	0.5	0.542411	1.25	2083329.0	1.084823	Y
4	ICISAV 200-187441/8	1.0	0.97935	1.25	2145155.0	0.97935	Y
5	IC 200-187441/9	2.5	2.345683	1.25	2239855.0	0.938273	Y
6	IC 200-187441/10	10.0	9.163593	1.25	1965657.0	0.916359	Y



Calibration

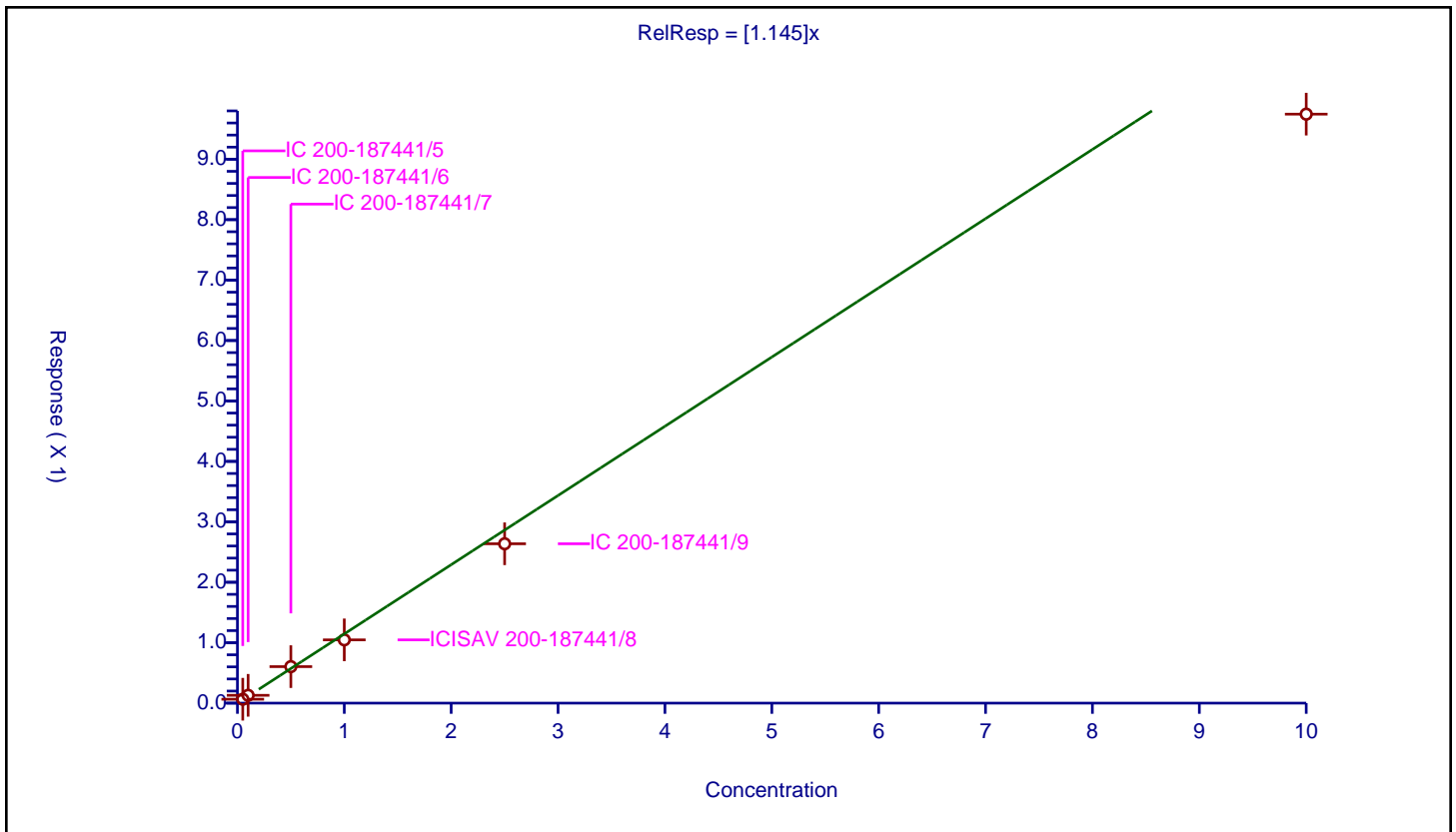
/ Perfluoropentanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.145

Error Coefficients	
Standard Error:	6010000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.064766	1.25	1540644.0	1.295319	Y
2	IC 200-187441/6	0.1	0.129163	1.25	1759059.0	1.291628	Y
3	IC 200-187441/7	0.5	0.604136	1.25	1552712.0	1.208271	Y
4	ICISAV 200-187441/8	1.0	1.04698	1.25	1830527.0	1.04698	Y
5	IC 200-187441/9	2.5	2.636921	1.25	1687291.0	1.054769	Y
6	IC 200-187441/10	10.0	9.746194	1.25	1648533.0	0.974619	Y



Calibration

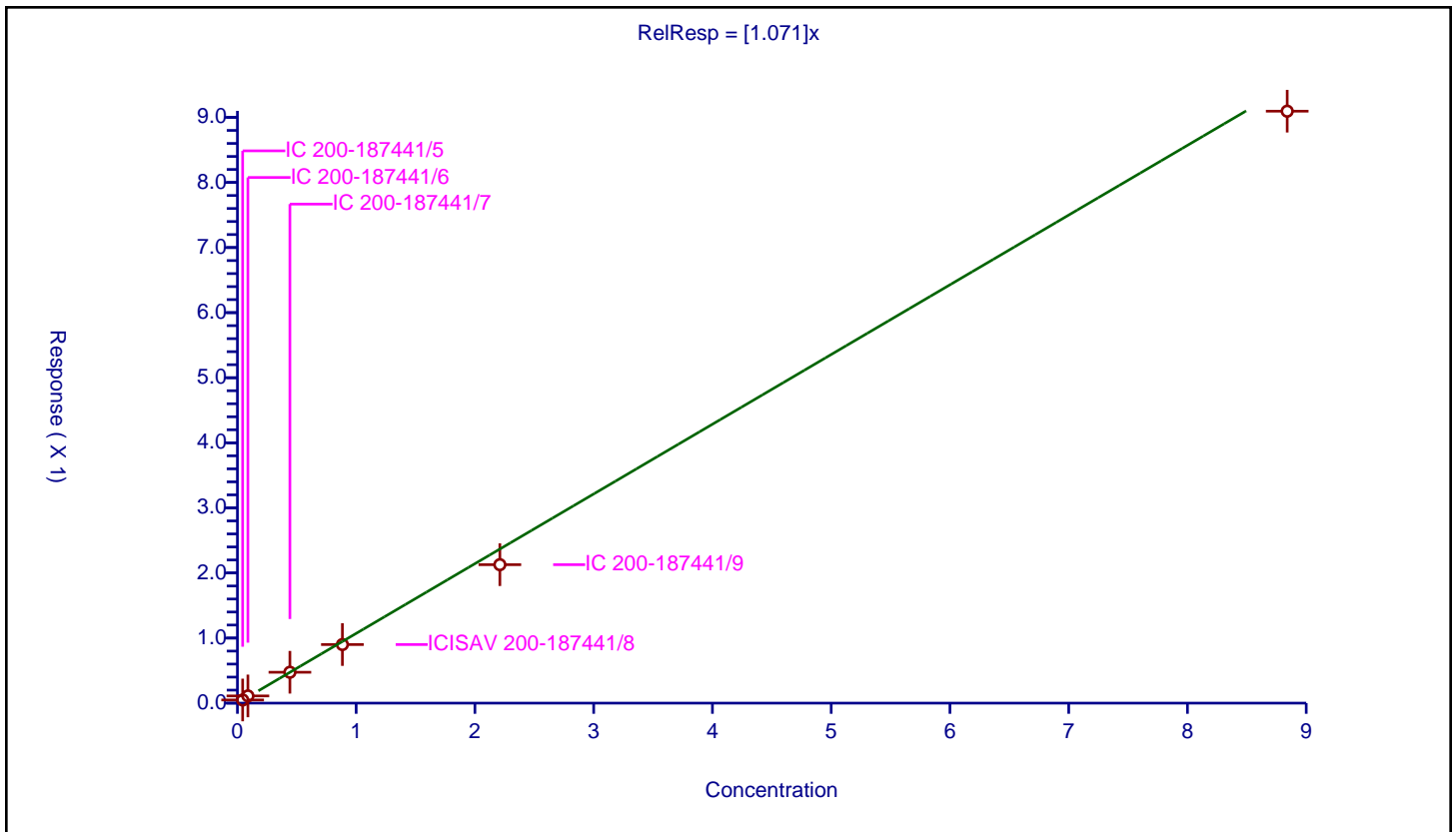
/ Perfluorobutanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.071

Error Coefficients	
Standard Error:	5750000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0442	0.048397	1.1625	1789240.0	1.09495	Y
2	IC 200-187441/6	0.0884	0.110518	1.1625	1634896.0	1.250201	Y
3	IC 200-187441/7	0.442	0.474323	1.1625	1708666.0	1.07313	Y
4	ICISAV 200-187441/8	0.884	0.899945	1.1625	1807983.0	1.018038	Y
5	IC 200-187441/9	2.21	2.127434	1.1625	1713984.0	0.96264	Y
6	IC 200-187441/10	8.84	9.095442	1.1625	1581618.0	1.028896	Y



Calibration

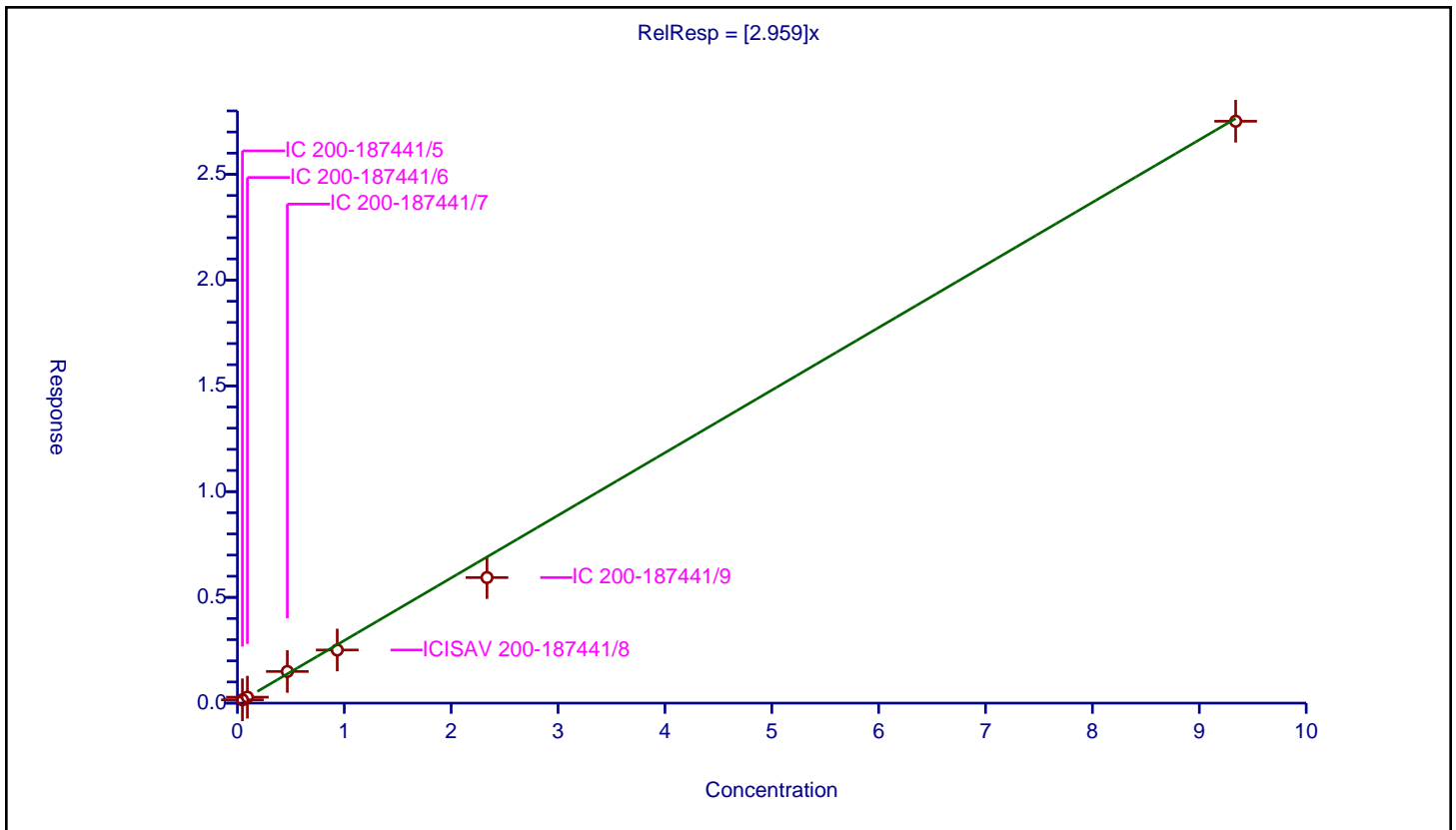
/ 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.959

Error Coefficients	
Standard Error:	1420000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0467	0.157077	1.1675	126667.0	3.363544	Y
2	IC 200-187441/6	0.0934	0.281224	1.1675	129921.0	3.010964	Y
3	IC 200-187441/7	0.467	1.496733	1.1675	132646.0	3.204997	Y
4	ICISAV 200-187441/8	0.934	2.511248	1.1675	152562.0	2.688702	Y
5	IC 200-187441/9	2.335	5.936101	1.1675	162324.0	2.542227	Y
6	IC 200-187441/10	9.34	27.510003	1.1675	128831.0	2.945396	Y



Calibration

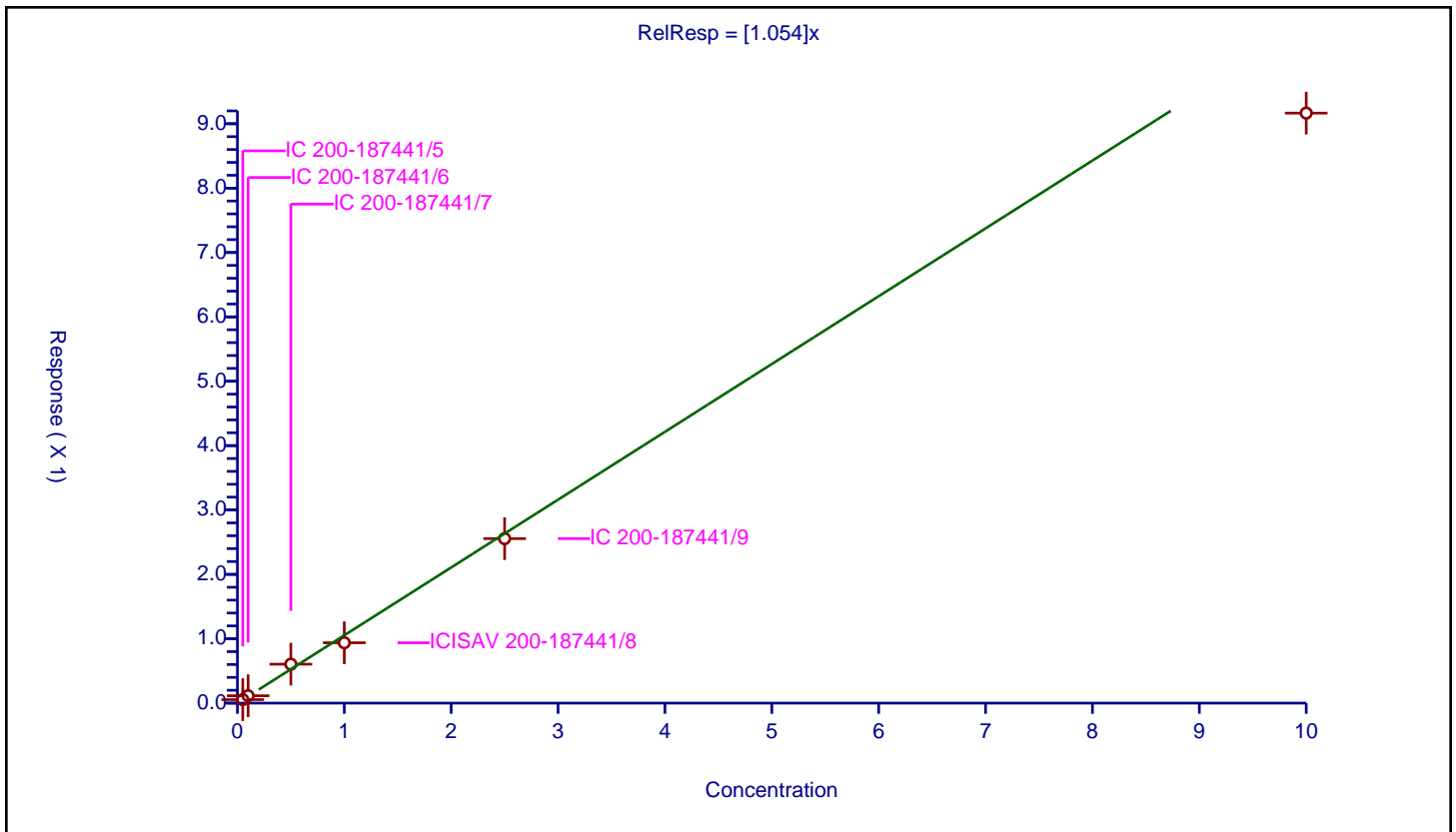
/ Perfluorohexanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.054

Error Coefficients	
Standard Error:	5550000
Relative Standard Error:	11.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.054573	1.25	1821594.0	1.091462	Y
2	IC 200-187441/6	0.1	0.114298	1.25	1676752.0	1.142976	Y
3	IC 200-187441/7	0.5	0.605083	1.25	1669242.0	1.210166	Y
4	ICISAV 200-187441/8	1.0	0.937877	1.25	1910330.0	0.937877	Y
5	IC 200-187441/9	2.5	2.555416	1.25	1743329.0	1.022166	Y
6	IC 200-187441/10	10.0	9.165779	1.25	1605635.0	0.916578	Y



Calibration

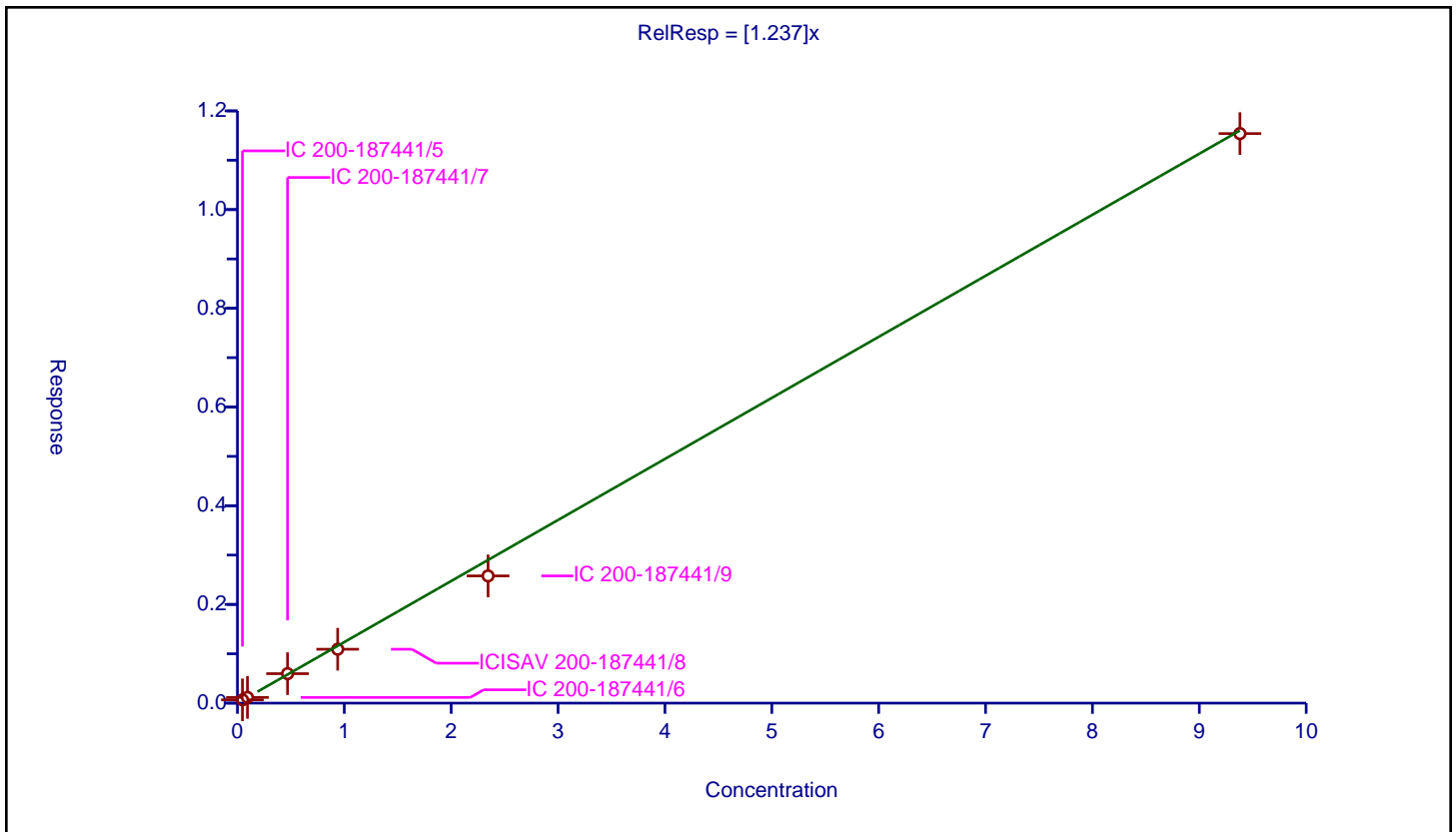
/ Perfluoropentanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.237

Error Coefficients	
Standard Error:	5000000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0469	0.066612	1.1825	1181711.0	1.420308	Y
2	IC 200-187441/6	0.0938	0.115729	1.1825	1332857.0	1.233783	Y
3	IC 200-187441/7	0.469	0.597375	1.1825	1224605.0	1.273722	Y
4	ICISAV 200-187441/8	0.938	1.091972	1.1825	1307522.0	1.164149	Y
5	IC 200-187441/9	2.345	2.577594	1.1825	1445292.0	1.099187	Y
6	IC 200-187441/10	9.38	11.540289	1.1825	1090521.0	1.230308	Y



Calibration

/ Perfluoro(2-propoxypropanoic) acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

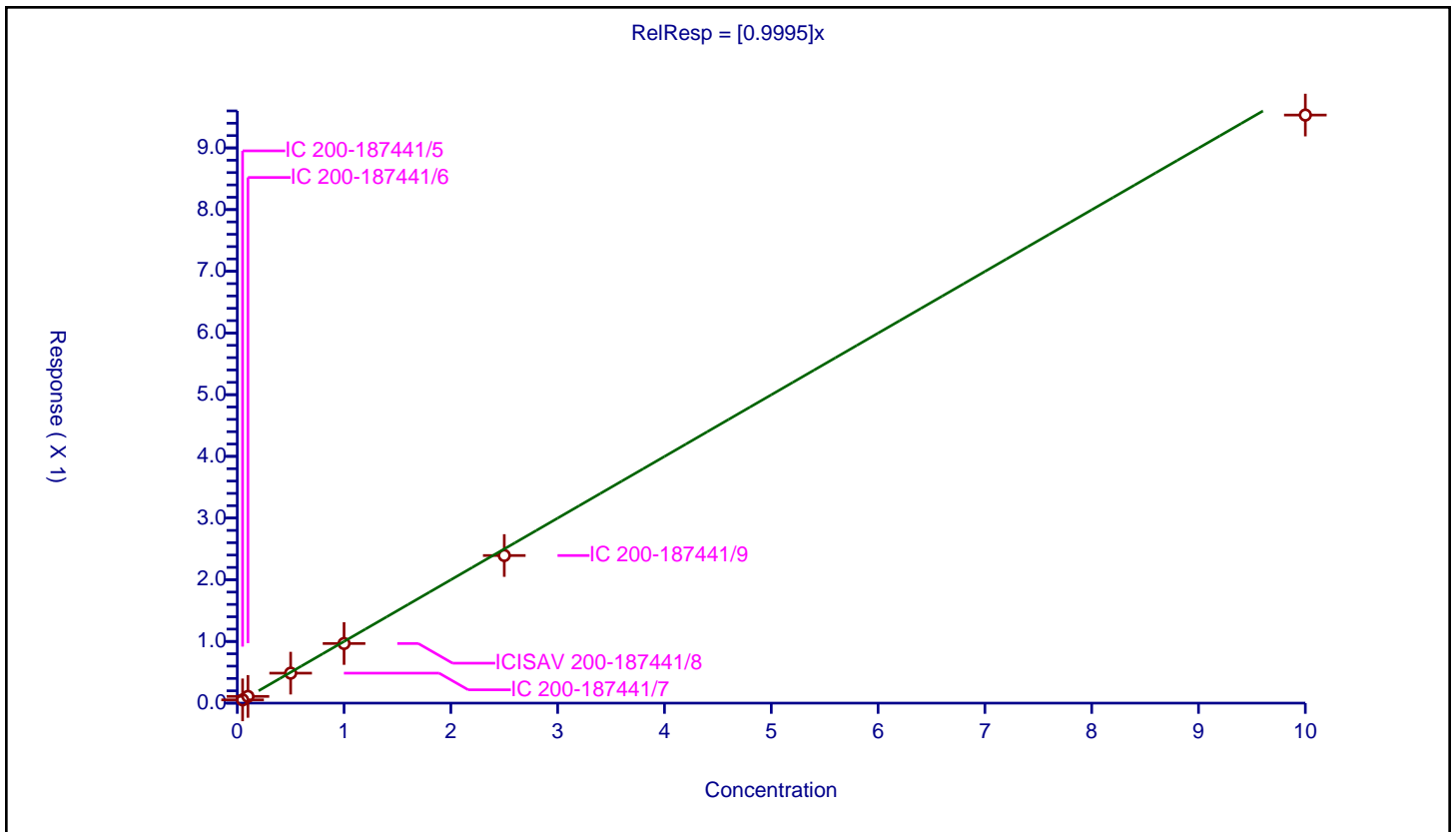
Curve Coefficients

Intercept: 0
 Slope: 0.9995

Error Coefficients

Standard Error: 1100000
 Relative Standard Error: 5.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.052805	1.25	293722.0	1.056101	Y
2	IC 200-187441/6	0.1	0.109207	1.25	264830.0	1.092068	Y
3	IC 200-187441/7	0.5	0.486079	1.25	304873.0	0.972159	Y
4	ICISAV 200-187441/8	1.0	0.96647	1.25	315350.0	0.96647	Y
5	IC 200-187441/9	2.5	2.392972	1.25	312102.0	0.957189	Y
6	IC 200-187441/10	10.0	9.532435	1.25	311994.0	0.953243	Y



Calibration

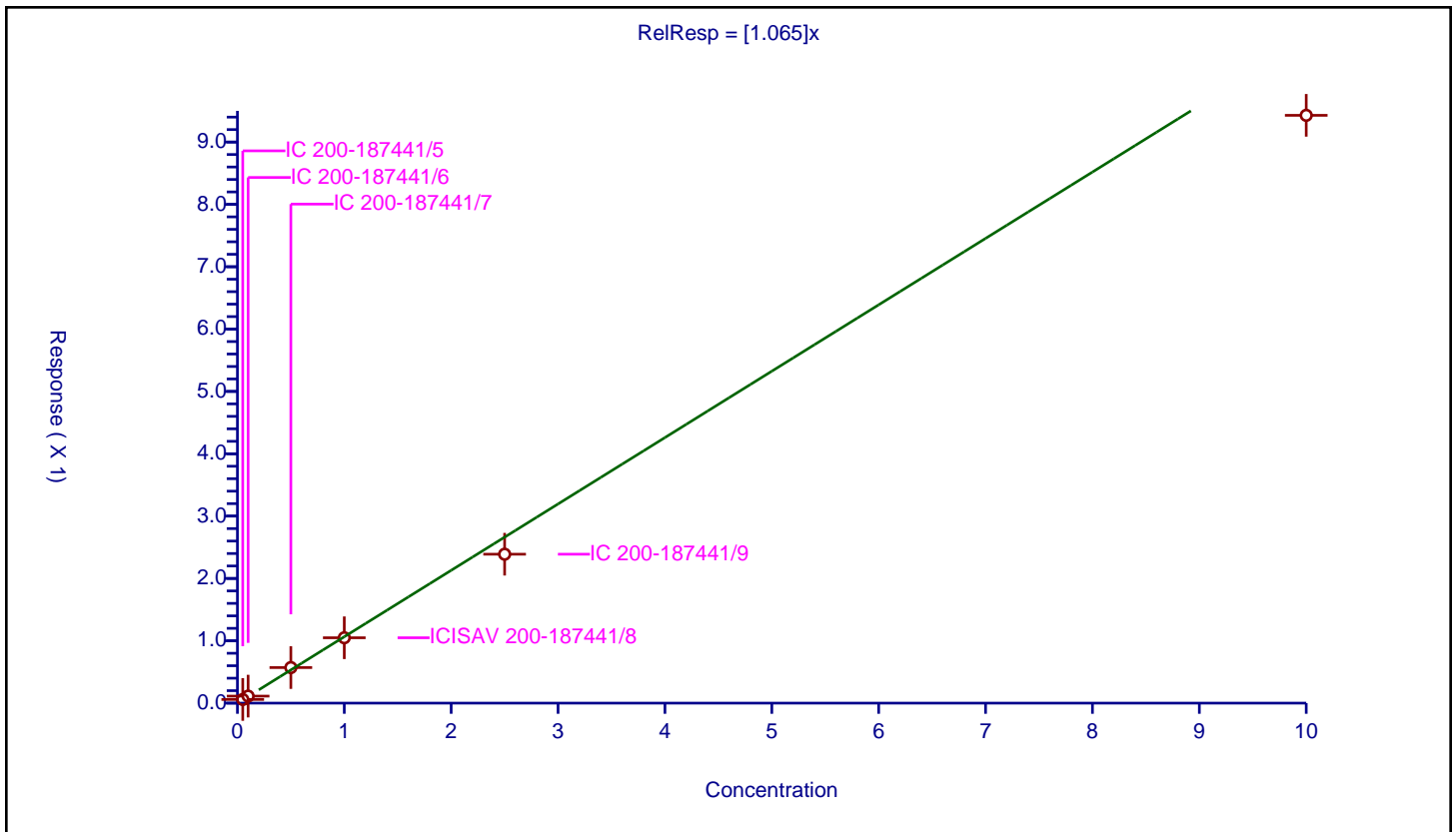
/ Perfluoroheptanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.065

Error Coefficients	
Standard Error:	5760000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.058718	1.25	1662871.0	1.174354	Y
2	IC 200-187441/6	0.1	0.11272	1.25	1854236.0	1.127203	Y
3	IC 200-187441/7	0.5	0.570416	1.25	1725691.0	1.140831	Y
4	ICISAV 200-187441/8	1.0	1.048618	1.25	1788525.0	1.048618	Y
5	IC 200-187441/9	2.5	2.389003	1.25	1749350.0	0.955601	Y
6	IC 200-187441/10	10.0	9.428481	1.25	1632836.0	0.942848	Y



Calibration

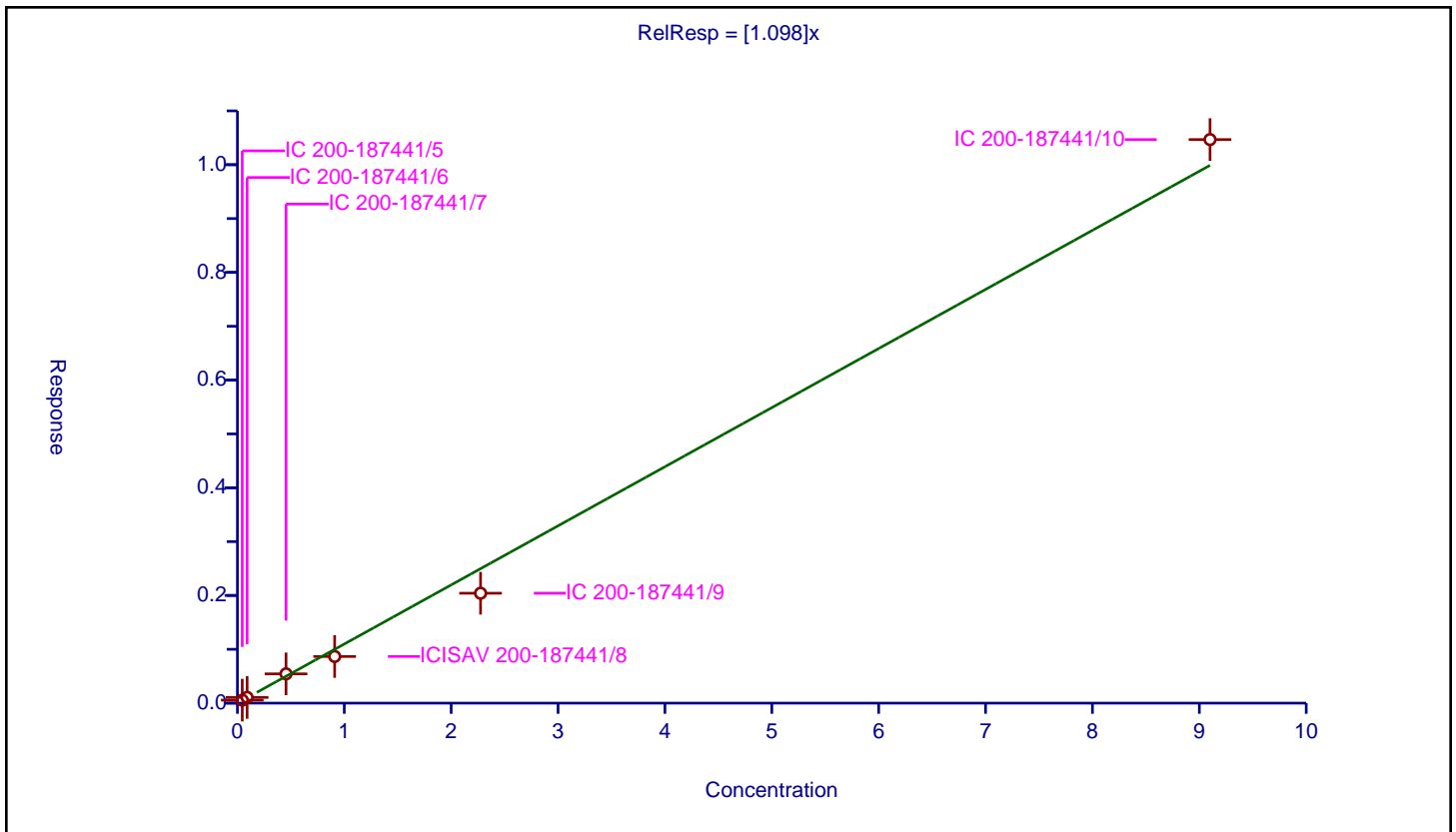
/ Perfluorohexanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.098

Error Coefficients	
Standard Error:	4490000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0455	0.055639	1.1825	1181711.0	1.222838	Y
2	IC 200-187441/6	0.091	0.106271	1.1825	1332857.0	1.167818	Y
3	IC 200-187441/7	0.455	0.543971	1.1825	1224605.0	1.195541	Y
4	ICISAV 200-187441/8	0.91	0.866583	1.1825	1307522.0	0.952289	Y
5	IC 200-187441/9	2.275	2.041258	1.1825	1445292.0	0.897256	Y
6	IC 200-187441/10	9.1	10.467452	1.1825	1090521.0	1.150269	Y



Calibration

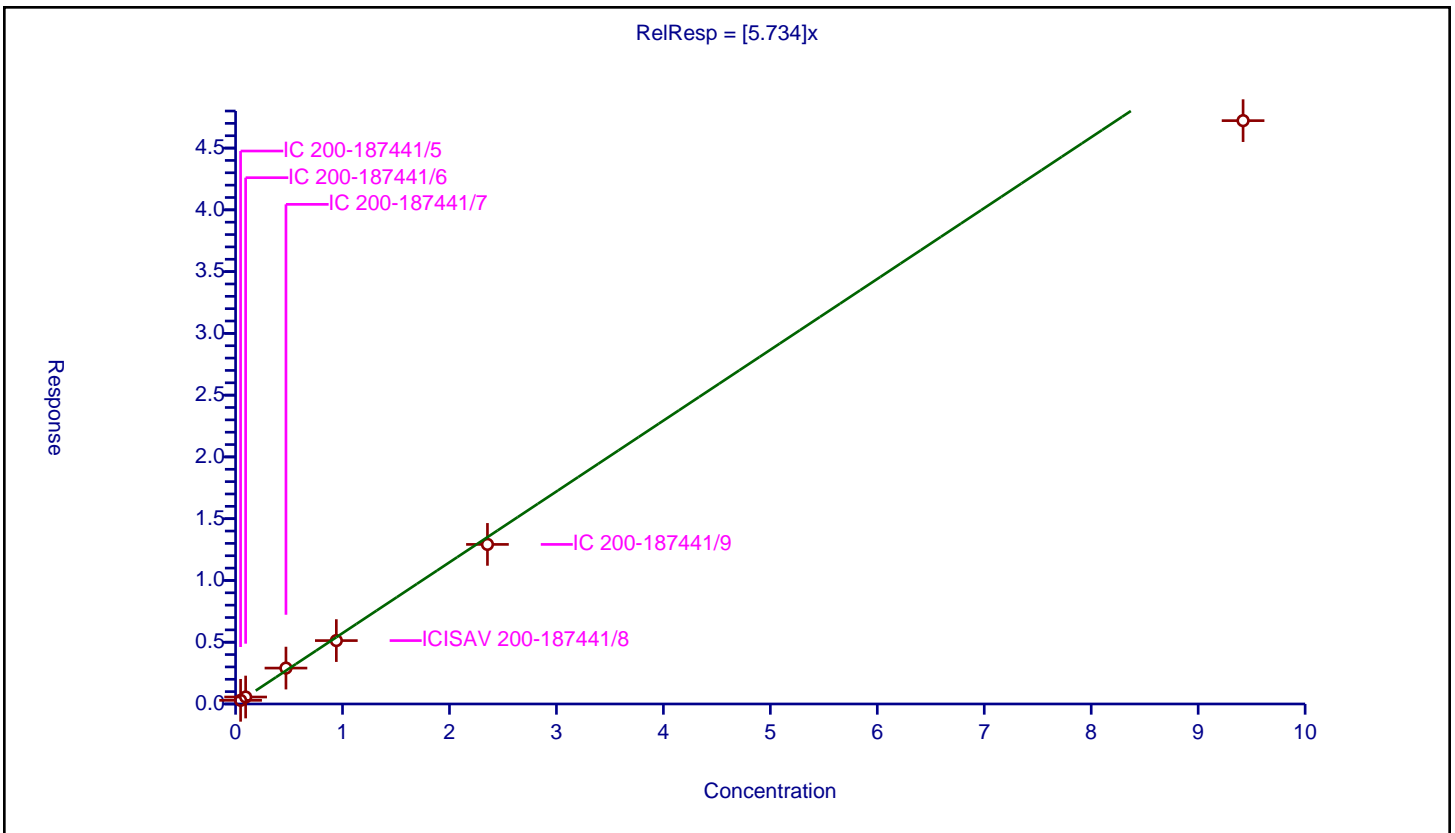
/ DONA

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.734

Error Coefficients	
Standard Error:	13500000
Relative Standard Error:	8.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0471	0.296754	1.195	767609.0	6.300506	Y
2	IC 200-187441/6	0.0942	0.564218	1.195	806762.0	5.989578	Y
3	IC 200-187441/7	0.471	2.906529	1.195	732775.0	6.170974	Y
4	ICISAV 200-187441/8	0.942	5.131669	1.195	813855.0	5.447631	Y
5	IC 200-187441/9	2.355	12.917454	1.195	806118.0	5.485118	Y
6	IC 200-187441/10	9.42	47.220069	1.195	725859.0	5.012746	Y



Calibration

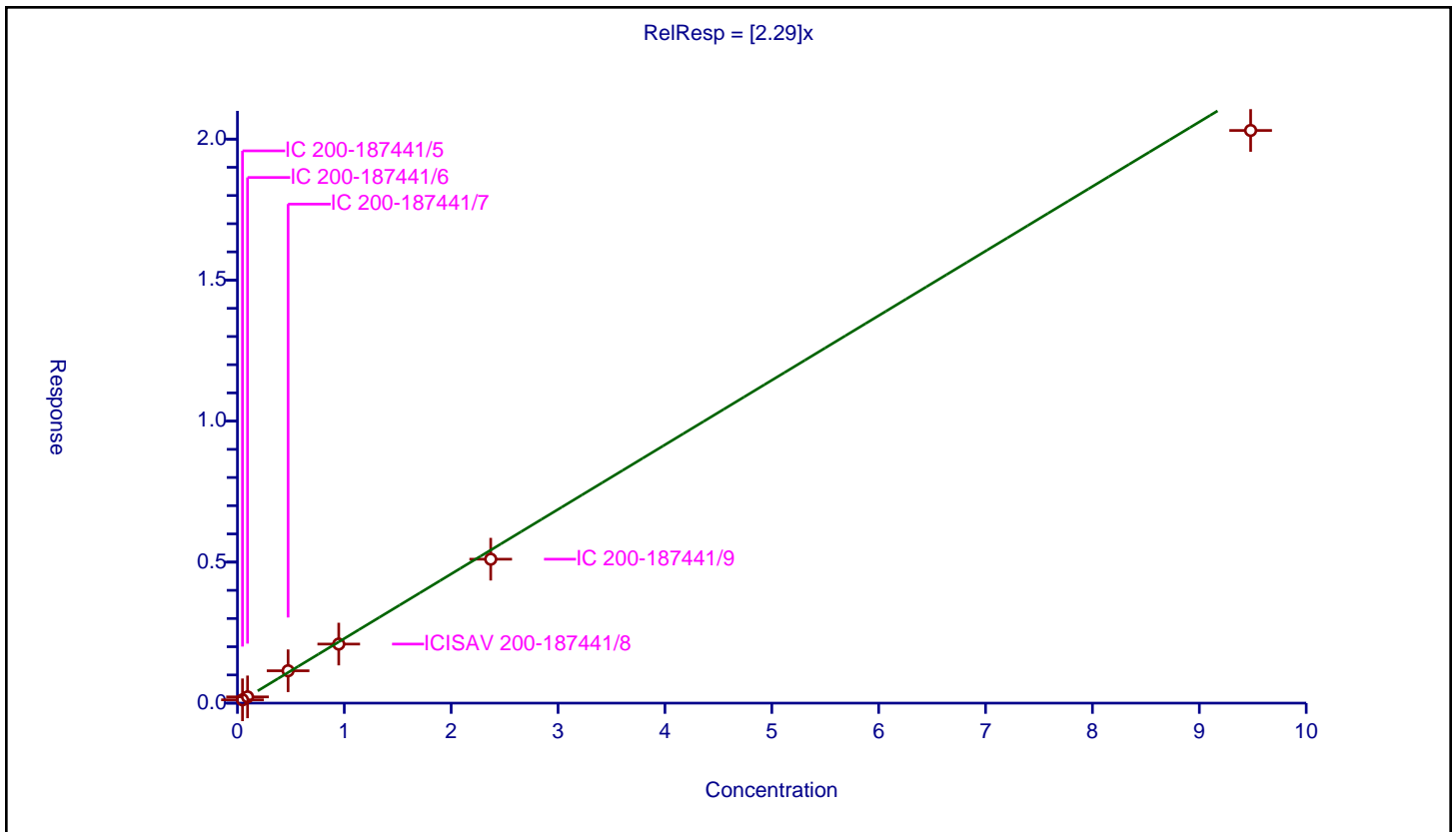
/ 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.29

Error Coefficients	
Standard Error:	1420000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0474	0.117411	1.1875	207925.0	2.47702	Y
2	IC 200-187441/6	0.0948	0.221479	1.1875	191525.0	2.336272	Y
3	IC 200-187441/7	0.474	1.14787	1.1875	213768.0	2.421667	Y
4	ICISAV 200-187441/8	0.948	2.094403	1.1875	208801.0	2.209286	Y
5	IC 200-187441/9	2.37	5.103579	1.1875	201091.0	2.153409	Y
6	IC 200-187441/10	9.48	20.305457	1.1875	176307.0	2.141926	Y



Calibration

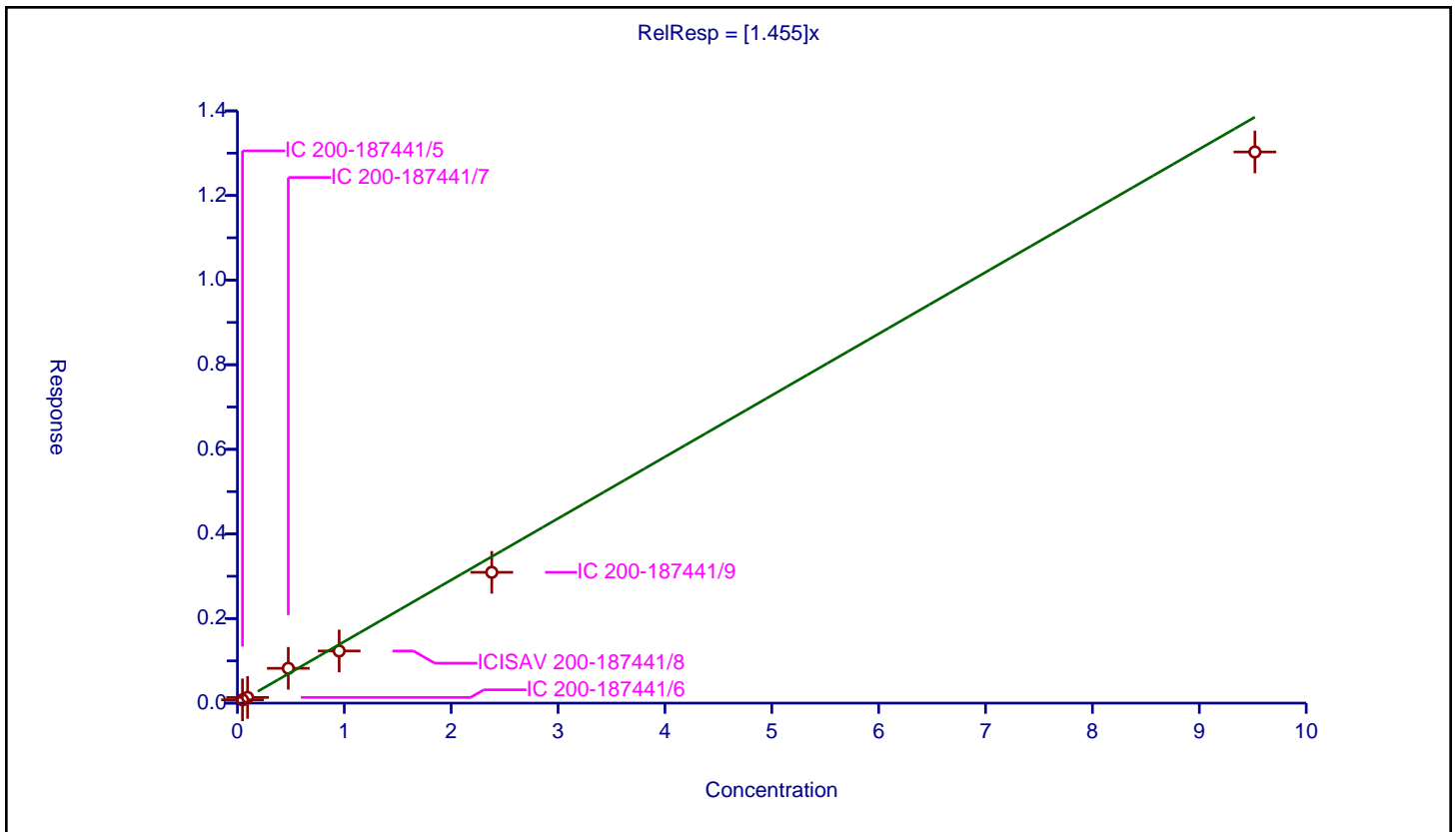
/ Perfluoroheptanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.455

Error Coefficients	
Standard Error:	3690000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0476	0.077475	1.195	767609.0	1.627622	Y
2	IC 200-187441/6	0.0952	0.134236	1.195	806762.0	1.410047	Y
3	IC 200-187441/7	0.476	0.823469	1.195	732775.0	1.729977	Y
4	ICISAV 200-187441/8	0.952	1.232993	1.195	813855.0	1.29516	Y
5	IC 200-187441/9	2.38	3.092305	1.195	806118.0	1.299288	Y
6	IC 200-187441/10	9.52	13.028832	1.195	725859.0	1.368575	Y



Calibration

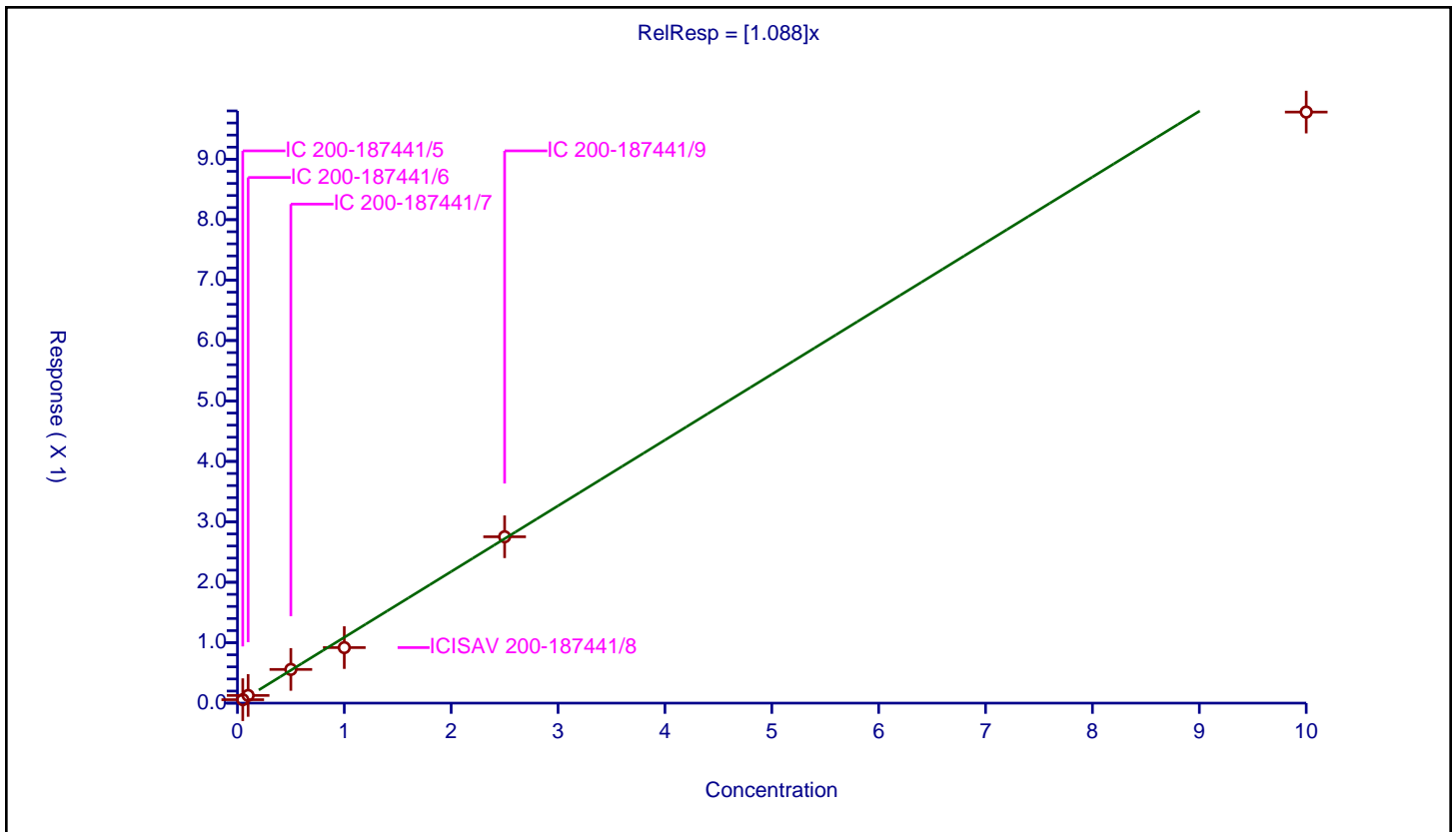
/ Perfluorooctanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.088

Error Coefficients	
Standard Error:	6110000
Relative Standard Error:	11.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.057149	1.25	1862193.0	1.14298	Y
2	IC 200-187441/6	0.1	0.127344	1.25	1796317.0	1.273439	Y
3	IC 200-187441/7	0.5	0.557597	1.25	1845411.0	1.115195	Y
4	ICISAV 200-187441/8	1.0	0.918892	1.25	2017935.0	0.918892	Y
5	IC 200-187441/9	2.5	2.752874	1.25	1893164.0	1.10115	Y
6	IC 200-187441/10	10.0	9.780623	1.25	1647382.0	0.978062	Y



Calibration

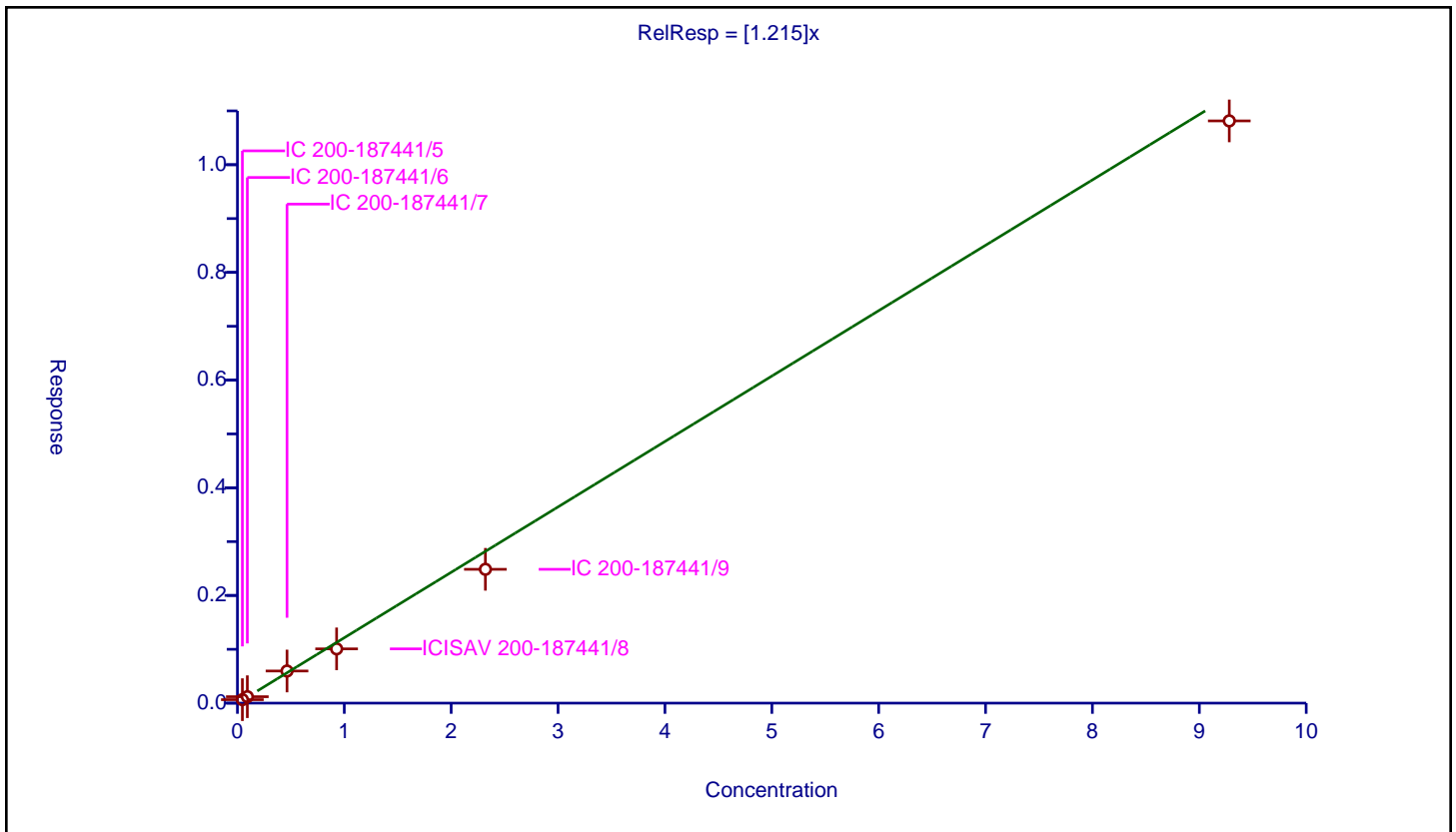
/ Perfluorooctanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.215

Error Coefficients	
Standard Error:	3050000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0464	0.064633	1.195	767609.0	1.392951	Y
2	IC 200-187441/6	0.0928	0.119433	1.195	806762.0	1.286994	Y
3	IC 200-187441/7	0.464	0.596842	1.195	732775.0	1.286297	Y
4	ICISAV 200-187441/8	0.928	1.007911	1.195	813855.0	1.086111	Y
5	IC 200-187441/9	2.32	2.485325	1.195	806118.0	1.071261	Y
6	IC 200-187441/10	9.28	10.814057	1.195	725859.0	1.165308	Y



Calibration

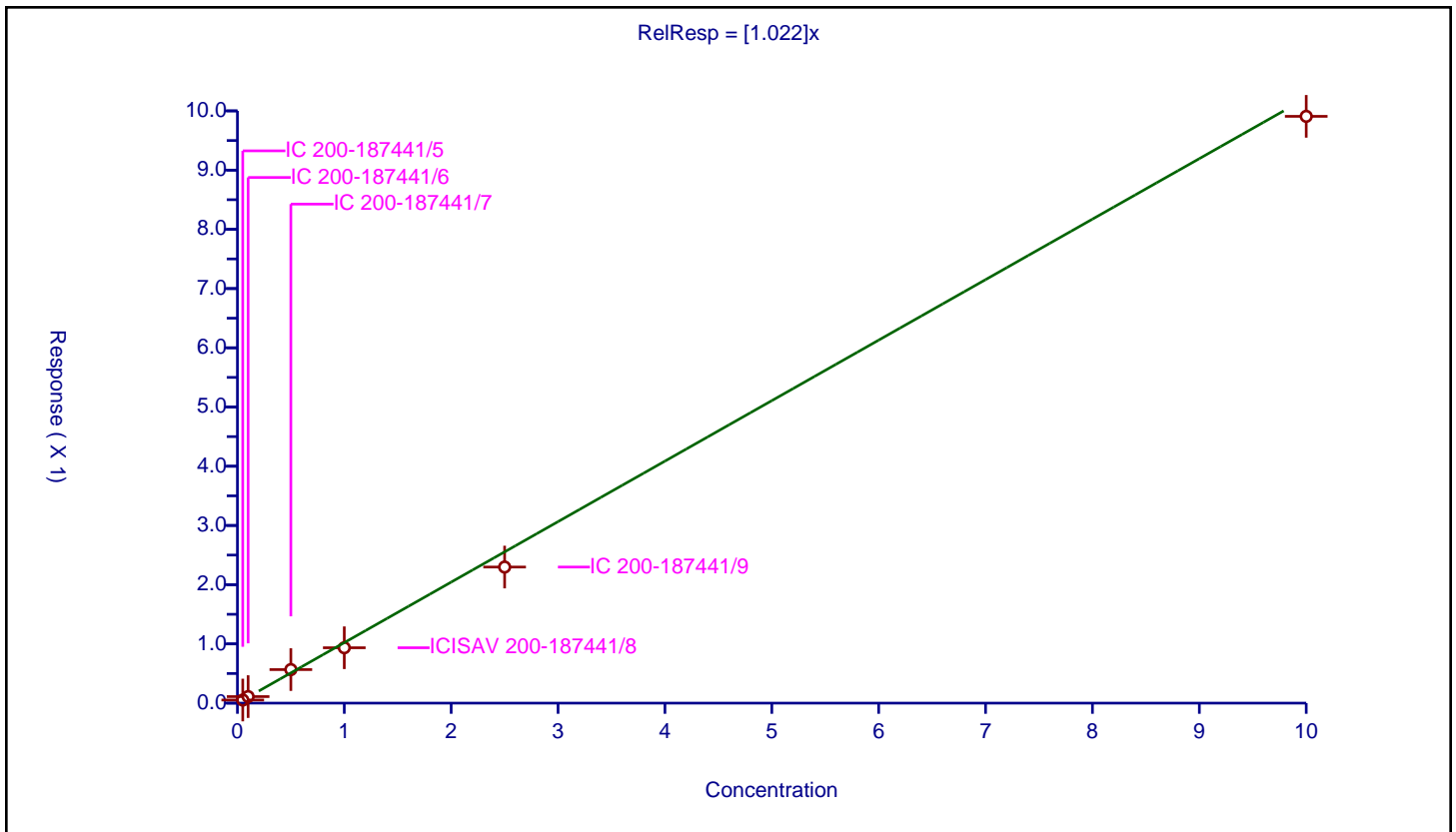
/ Perfluorononanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.022

Error Coefficients	
Standard Error:	6350000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.052295	1.25	1829843.0	1.045909	Y
2	IC 200-187441/6	0.1	0.110577	1.25	1717986.0	1.105772	Y
3	IC 200-187441/7	0.5	0.56624	1.25	1747438.0	1.132481	Y
4	ICISAV 200-187441/8	1.0	0.935188	1.25	1908294.0	0.935188	Y
5	IC 200-187441/9	2.5	2.297631	1.25	1830847.0	0.919052	Y
6	IC 200-187441/10	10.0	9.907786	1.25	1728974.0	0.990779	Y



Calibration

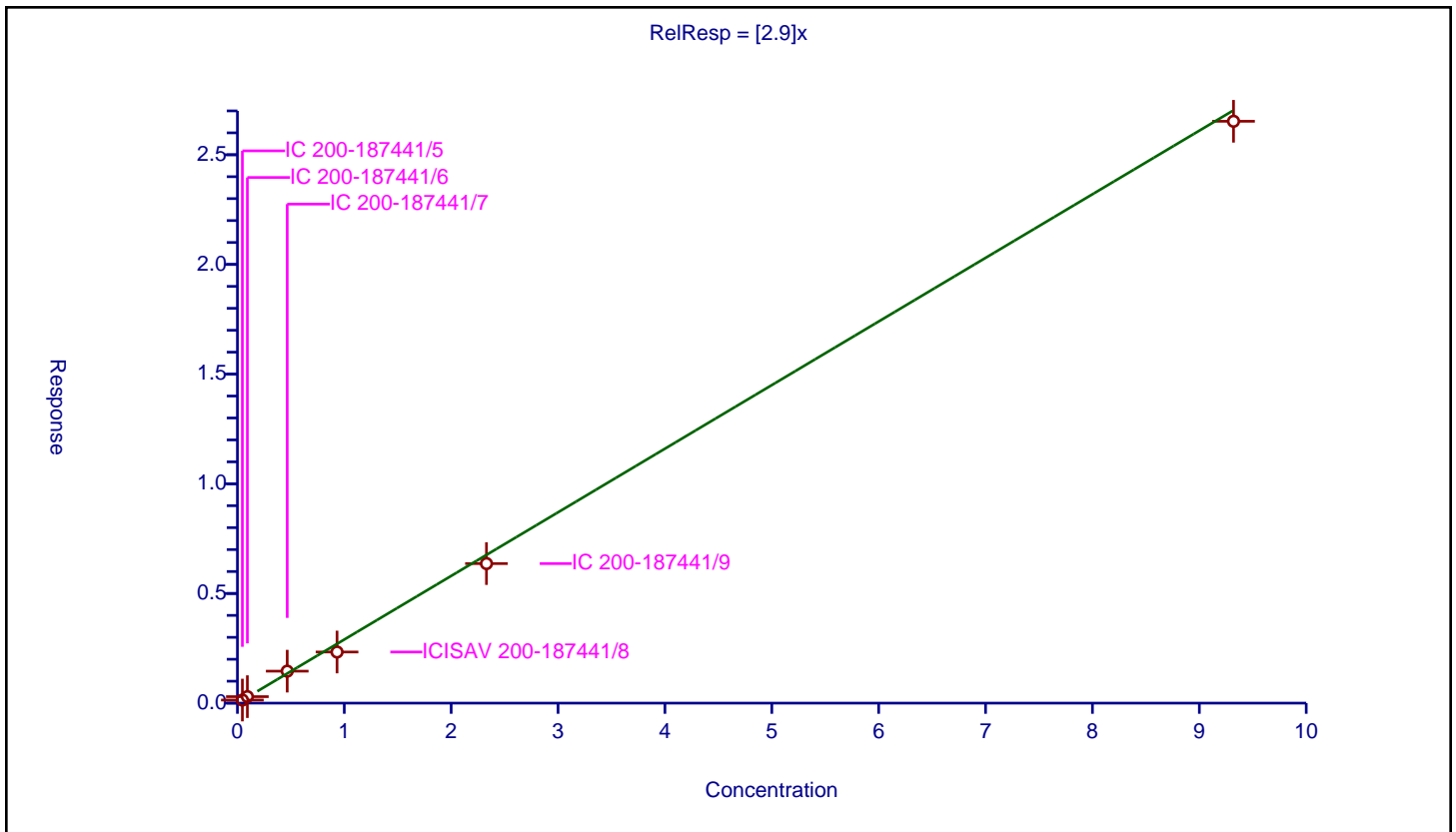
/ 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.9

Error Coefficients	
Standard Error:	750000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0466	0.140647	1.195	767609.0	3.018186	Y
2	IC 200-187441/6	0.0932	0.295876	1.195	806762.0	3.174632	Y
3	IC 200-187441/7	0.466	1.45826	1.195	732775.0	3.129312	Y
4	ICISAV 200-187441/8	0.932	2.330454	1.195	813855.0	2.500487	Y
5	IC 200-187441/9	2.33	6.362144	1.195	806118.0	2.730534	Y
6	IC 200-187441/10	9.32	26.526539	1.195	725859.0	2.846195	Y



Calibration

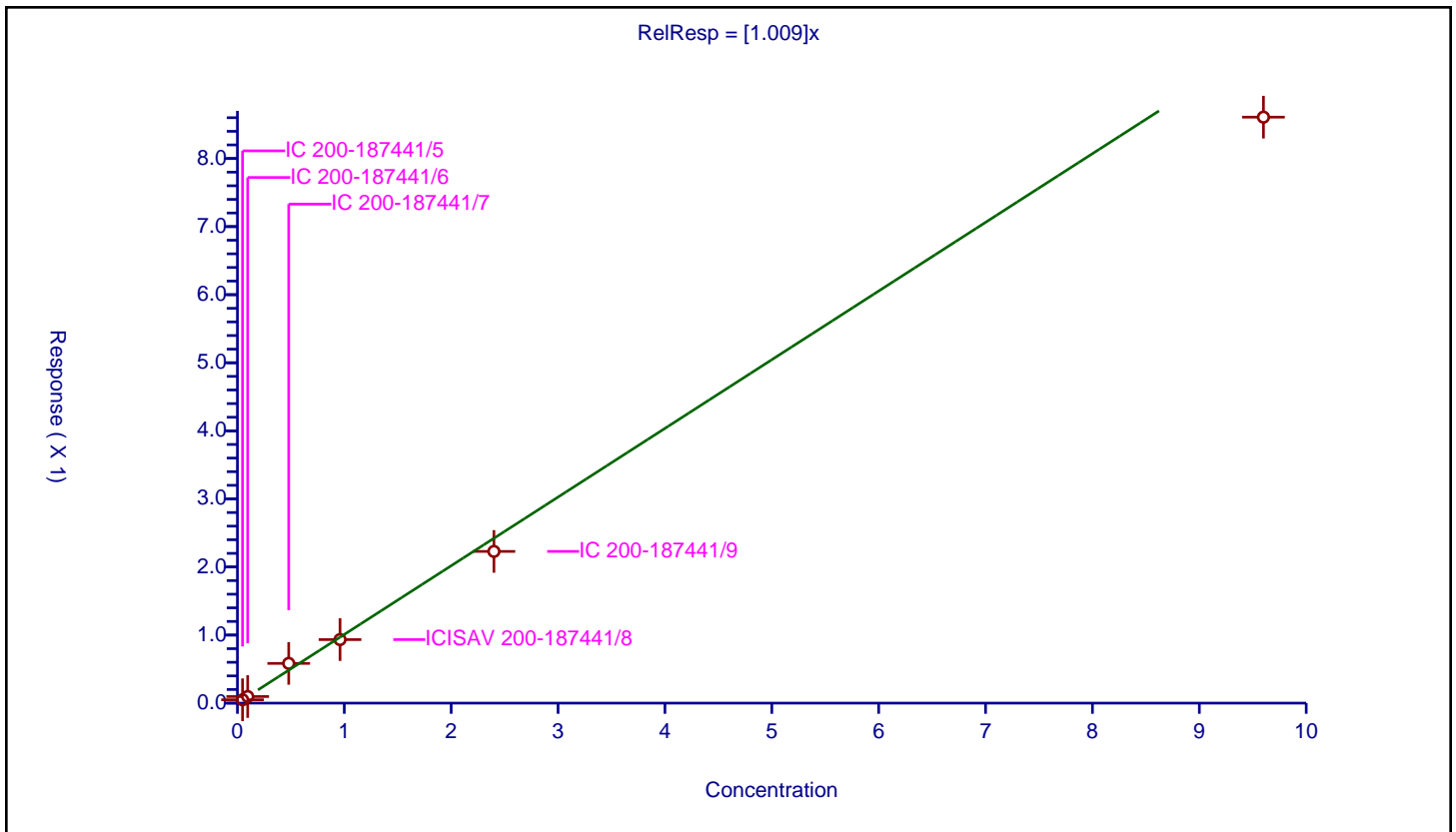
/ Perfluorononanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.009

Error Coefficients	
Standard Error:	2450000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.048	0.049434	1.195	767609.0	1.029876	Y
2	IC 200-187441/6	0.096	0.097004	1.195	806762.0	1.010461	Y
3	IC 200-187441/7	0.48	0.583597	1.195	732775.0	1.215827	Y
4	ICISAV 200-187441/8	0.96	0.933447	1.195	813855.0	0.97234	Y
5	IC 200-187441/9	2.4	2.228647	1.195	806118.0	0.928603	Y
6	IC 200-187441/10	9.6	8.607863	1.195	725859.0	0.896652	Y



Calibration

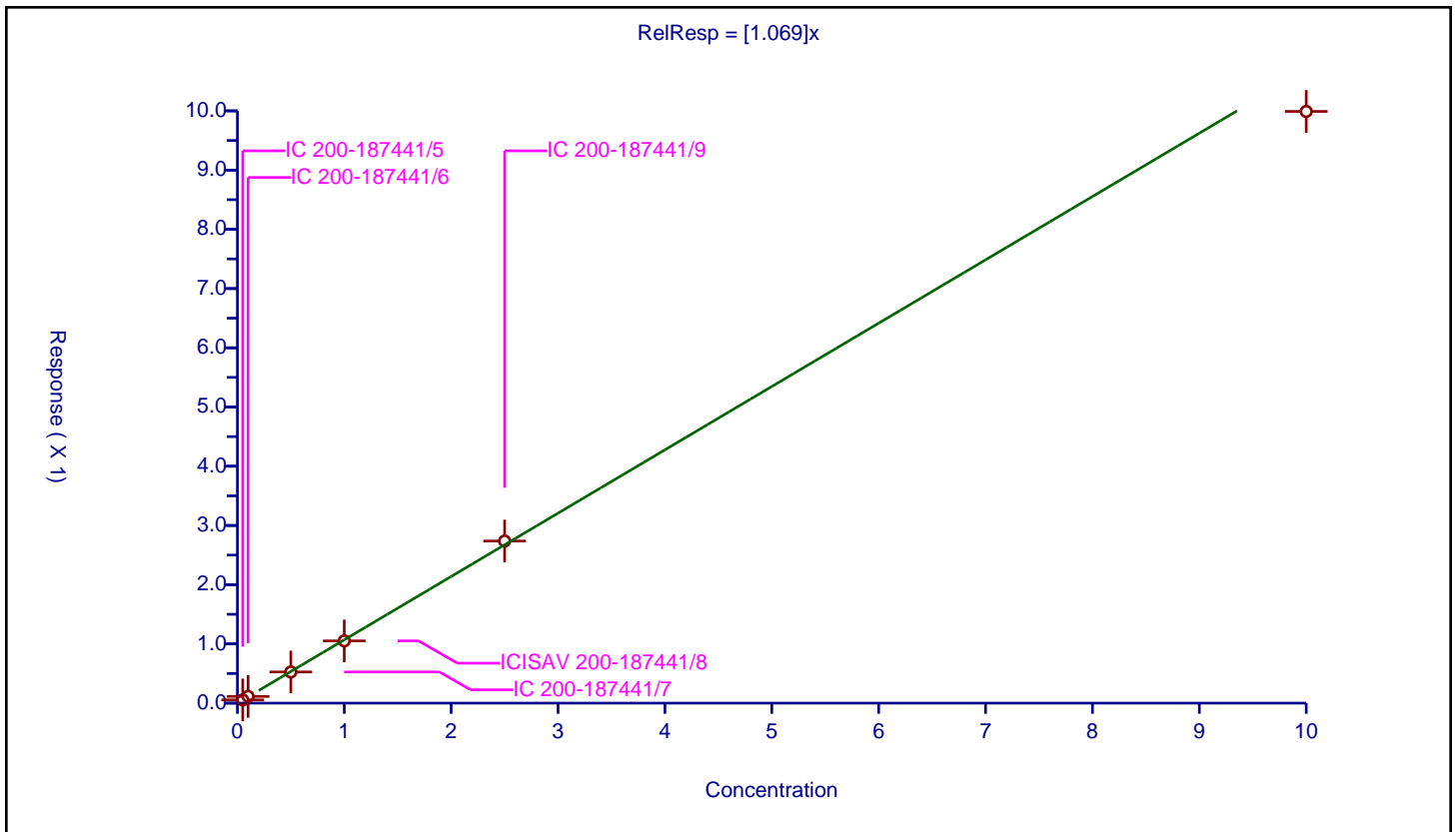
/ Perfluorodecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.069

Error Coefficients	
Standard Error:	6380000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.0541	1.25	1876926.0	1.082009	Y
2	IC 200-187441/6	0.1	0.113626	1.25	1832892.0	1.136264	Y
3	IC 200-187441/7	0.5	0.526269	1.25	1930492.0	1.052539	Y
4	ICISAV 200-187441/8	1.0	1.05077	1.25	1794868.0	1.05077	Y
5	IC 200-187441/9	2.5	2.737069	1.25	1896398.0	1.094827	Y
6	IC 200-187441/10	10.0	9.990344	1.25	1693037.0	0.999034	Y



Calibration

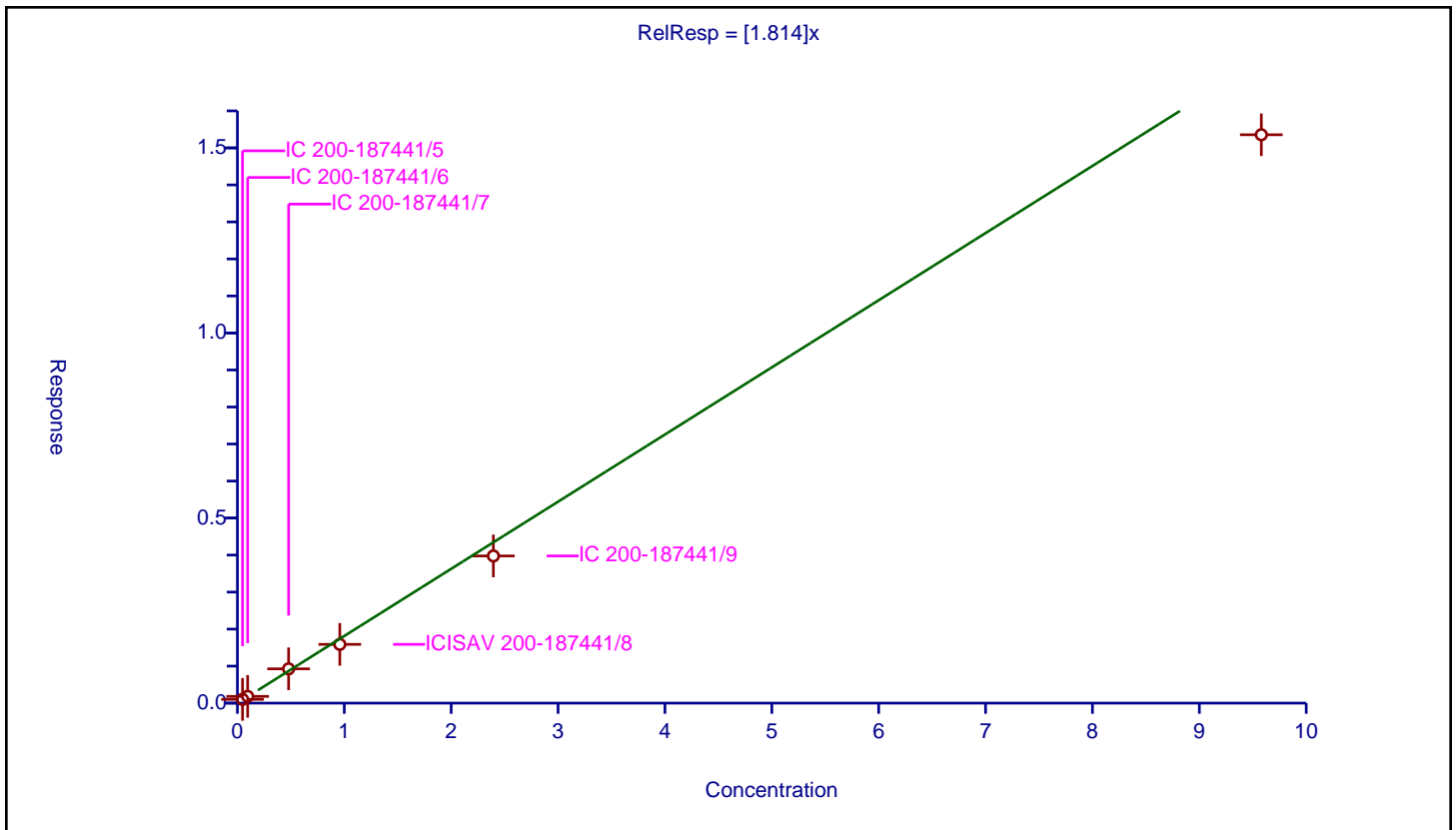
/ 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.814

Error Coefficients	
Standard Error:	1480000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0479	0.101853	1.1975	252732.0	2.126363	Y
2	IC 200-187441/6	0.0958	0.182337	1.1975	260139.0	1.903309	Y
3	IC 200-187441/7	0.479	0.926628	1.1975	257487.0	1.934505	Y
4	ICISAV 200-187441/8	0.958	1.587562	1.1975	244119.0	1.657163	Y
5	IC 200-187441/9	2.395	3.976397	1.1975	246611.0	1.660291	Y
6	IC 200-187441/10	9.58	15.355044	1.1975	249058.0	1.602823	Y



Calibration

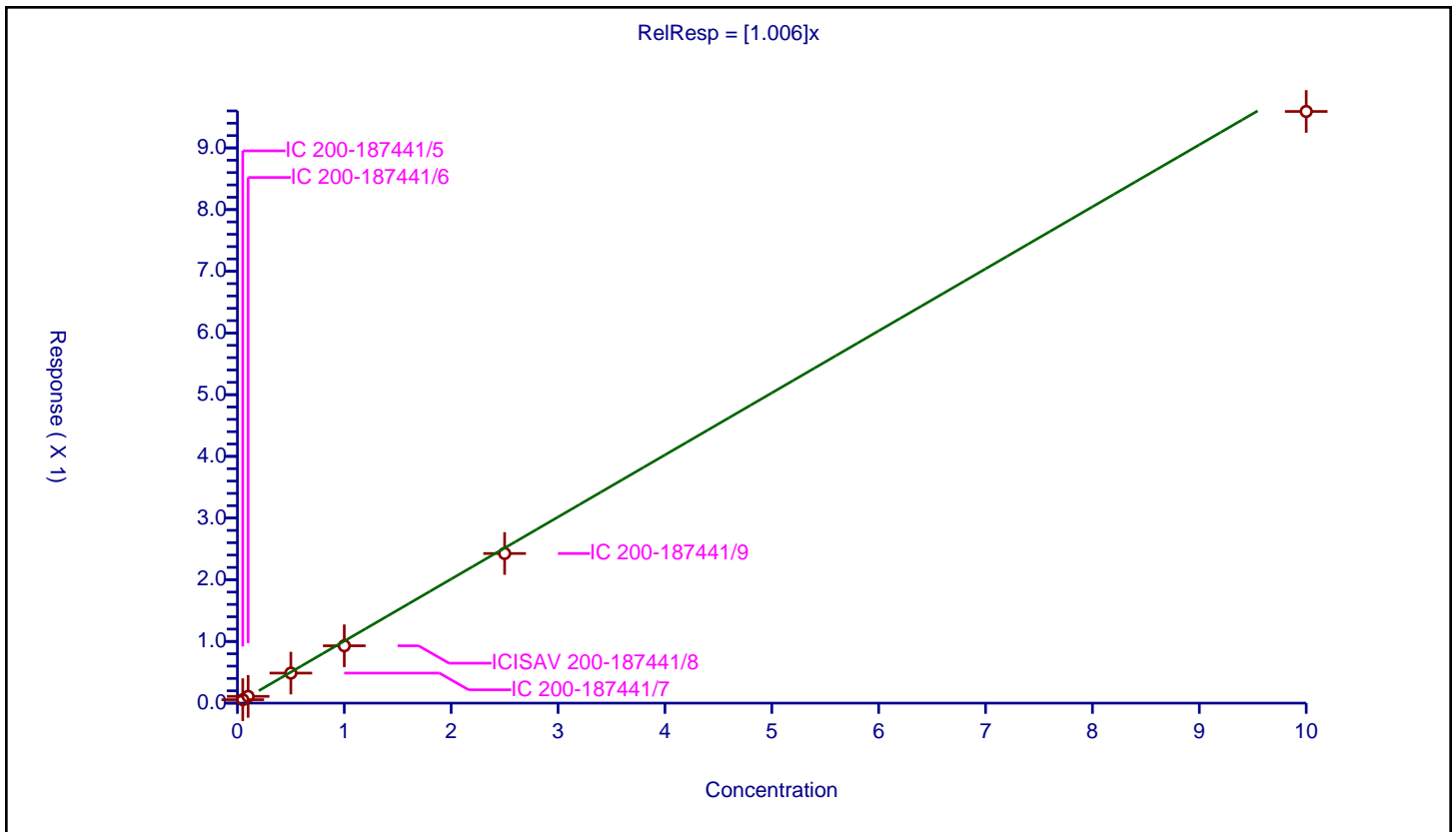
/ Perfluorooctanesulfonamide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.006

Error Coefficients	
Standard Error:	5160000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.055434	1.25	1494202.0	1.108685	Y
2	IC 200-187441/6	0.1	0.10932	1.25	1435323.0	1.093203	Y
3	IC 200-187441/7	0.5	0.486693	1.25	1520143.0	0.973385	Y
4	ICISAV 200-187441/8	1.0	0.929607	1.25	1541478.0	0.929607	Y
5	IC 200-187441/9	2.5	2.42574	1.25	1533594.0	0.970296	Y
6	IC 200-187441/10	10.0	9.590834	1.25	1441602.0	0.959083	Y



Calibration

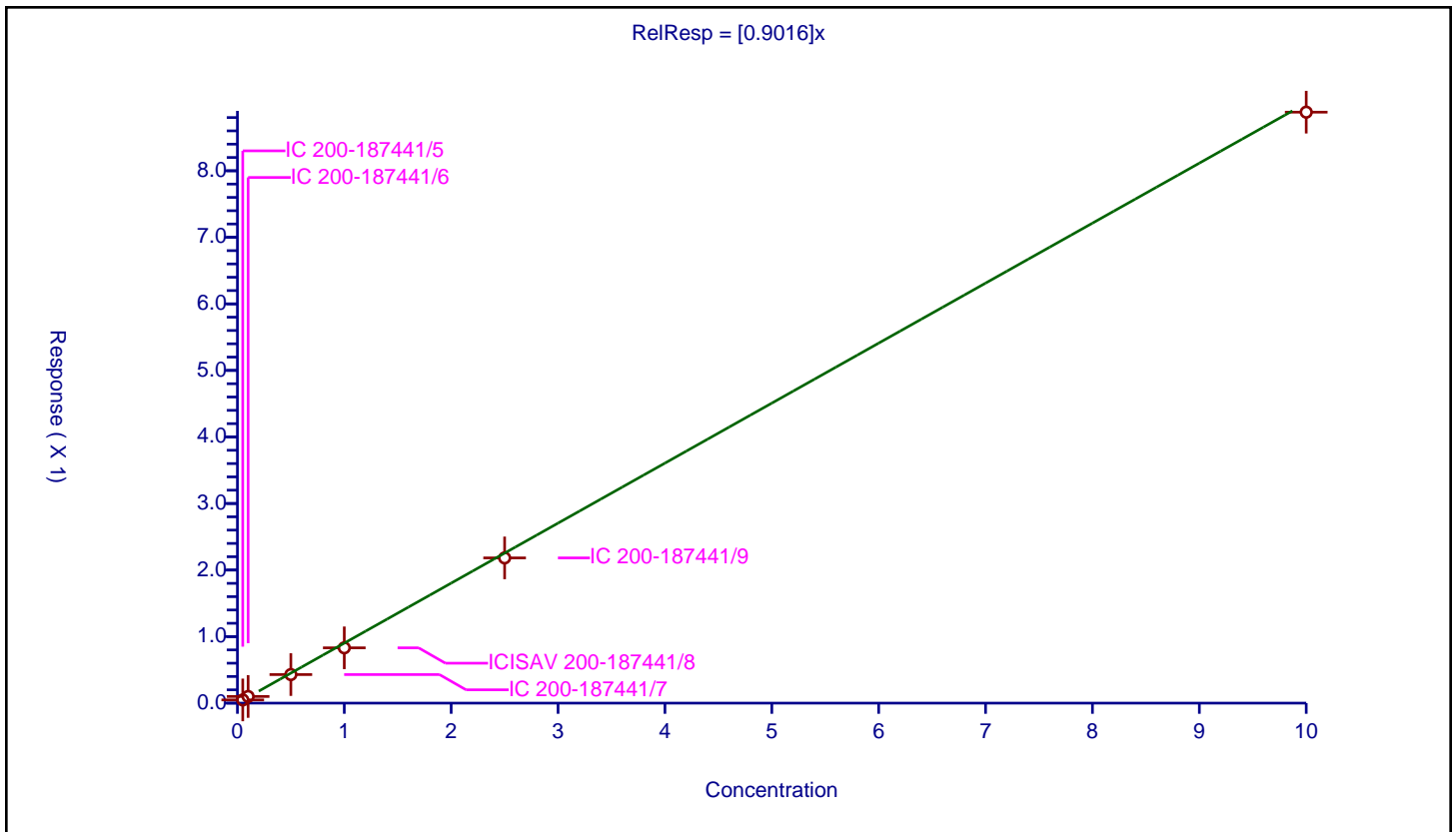
/ N-methylperfluorooctanesulfonamidoacetic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9016

Error Coefficients	
Standard Error:	1140000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.048074	1.25	339683.0	0.961485	Y
2	IC 200-187441/6	0.1	0.099801	1.25	345587.0	0.998012	Y
3	IC 200-187441/7	0.5	0.429108	1.25	375217.0	0.858217	Y
4	ICISAV 200-187441/8	1.0	0.831156	1.25	391757.0	0.831156	Y
5	IC 200-187441/9	2.5	2.182175	1.25	375639.0	0.87287	Y
6	IC 200-187441/10	10.0	8.880788	1.25	343314.0	0.888079	Y



Calibration

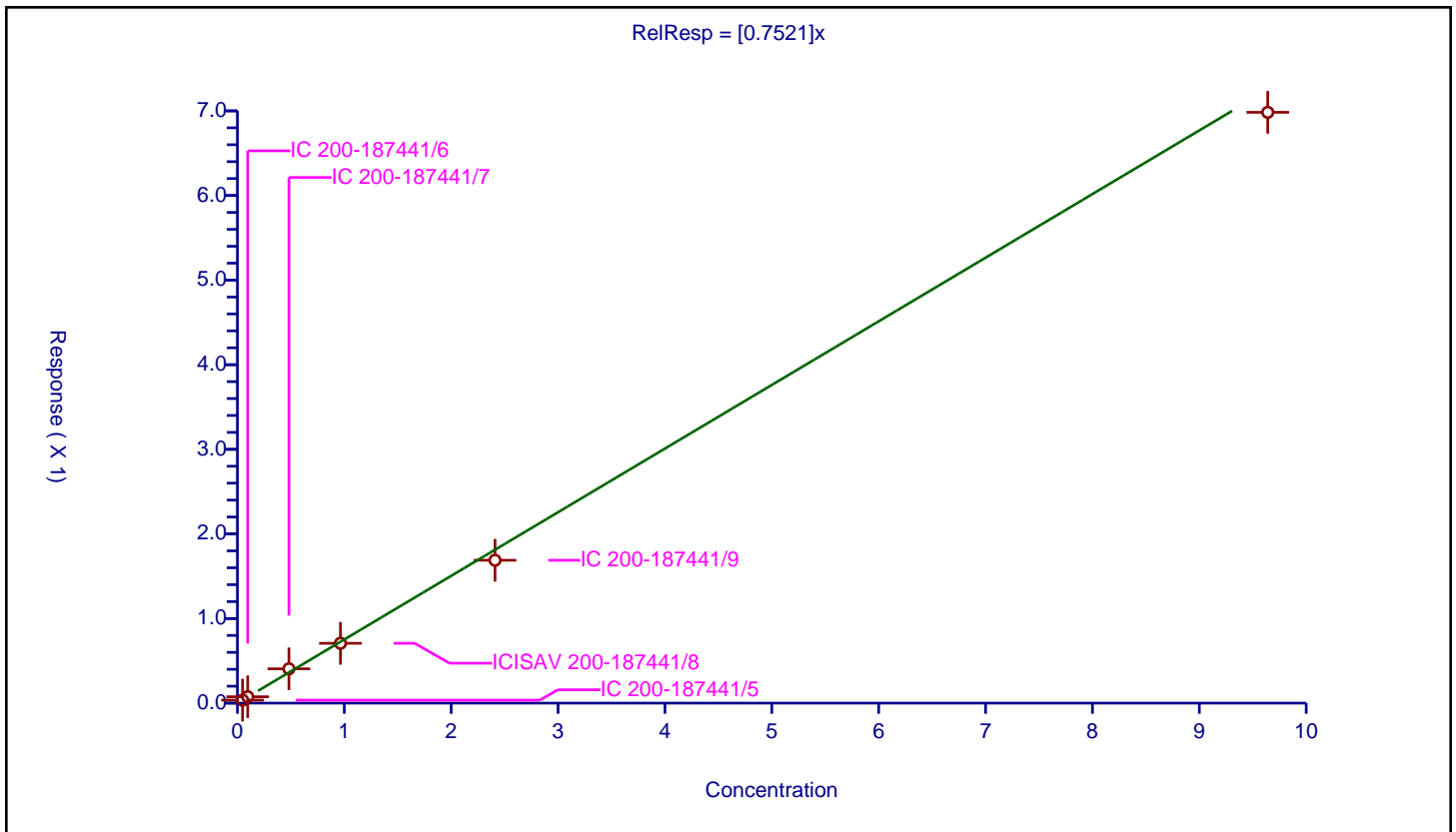
/ Perfluorodecanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7521

Error Coefficients	
Standard Error:	1980000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0482	0.03528	1.195	767609.0	0.731946	Y
2	IC 200-187441/6	0.0964	0.075285	1.195	806762.0	0.780965	Y
3	IC 200-187441/7	0.482	0.405352	1.195	732775.0	0.840979	Y
4	ICISAV 200-187441/8	0.964	0.707322	1.195	813855.0	0.733737	Y
5	IC 200-187441/9	2.41	1.688802	1.195	806118.0	0.700748	Y
6	IC 200-187441/10	9.64	6.983131	1.195	725859.0	0.724391	Y



Calibration

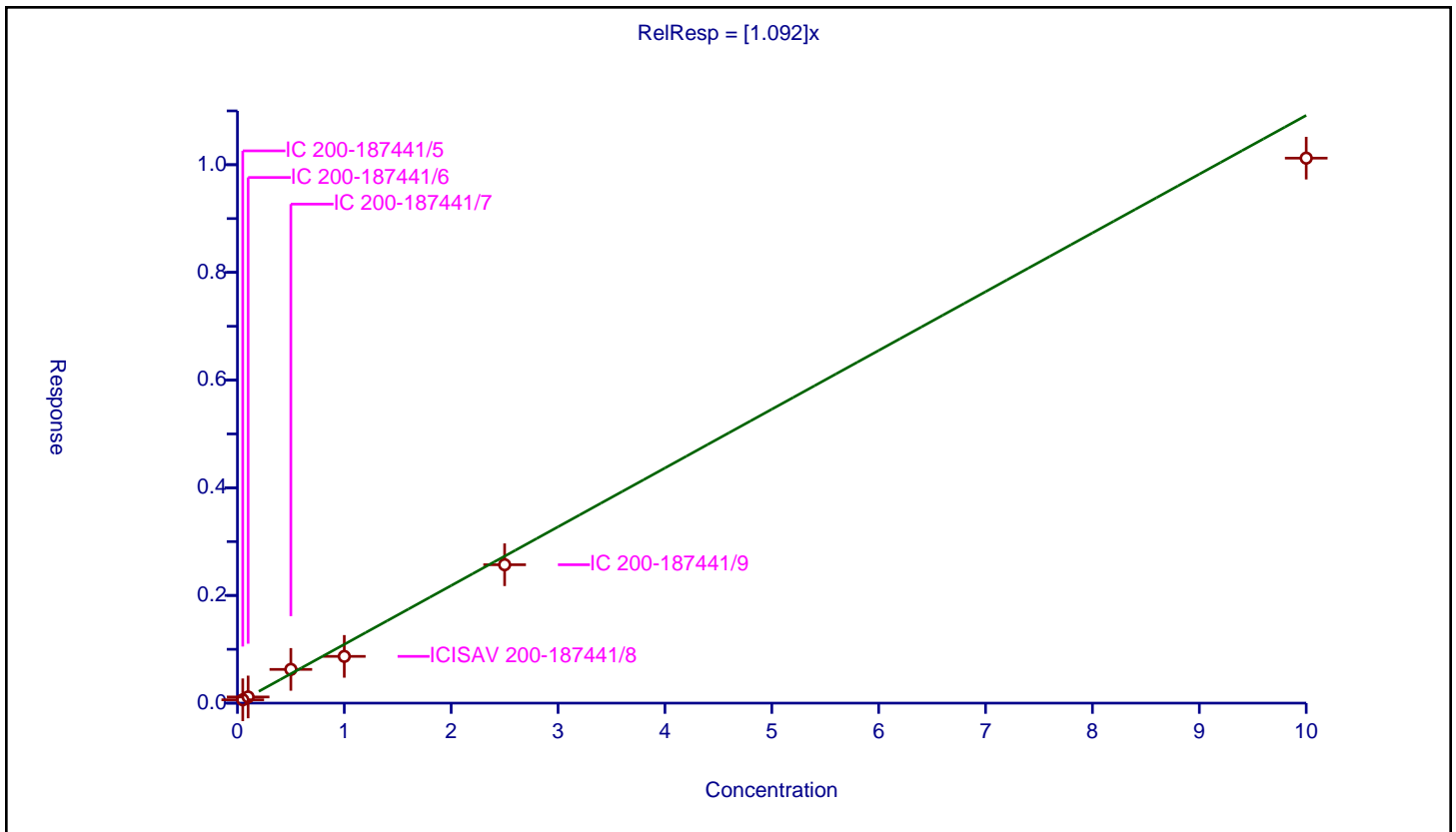
/ Perfluoroundecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.092

Error Coefficients	
Standard Error:	5440000
Relative Standard Error:	13.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.062124	1.25	1513495.0	1.242488	Y
2	IC 200-187441/6	0.1	0.114589	1.25	1584296.0	1.145888	Y
3	IC 200-187441/7	0.5	0.626447	1.25	1602066.0	1.252893	Y
4	ICISAV 200-187441/8	1.0	0.868345	1.25	1802127.0	0.868345	Y
5	IC 200-187441/9	2.5	2.570504	1.25	1609362.0	1.028202	Y
6	IC 200-187441/10	10.0	10.122485	1.25	1432402.0	1.012248	Y



Calibration

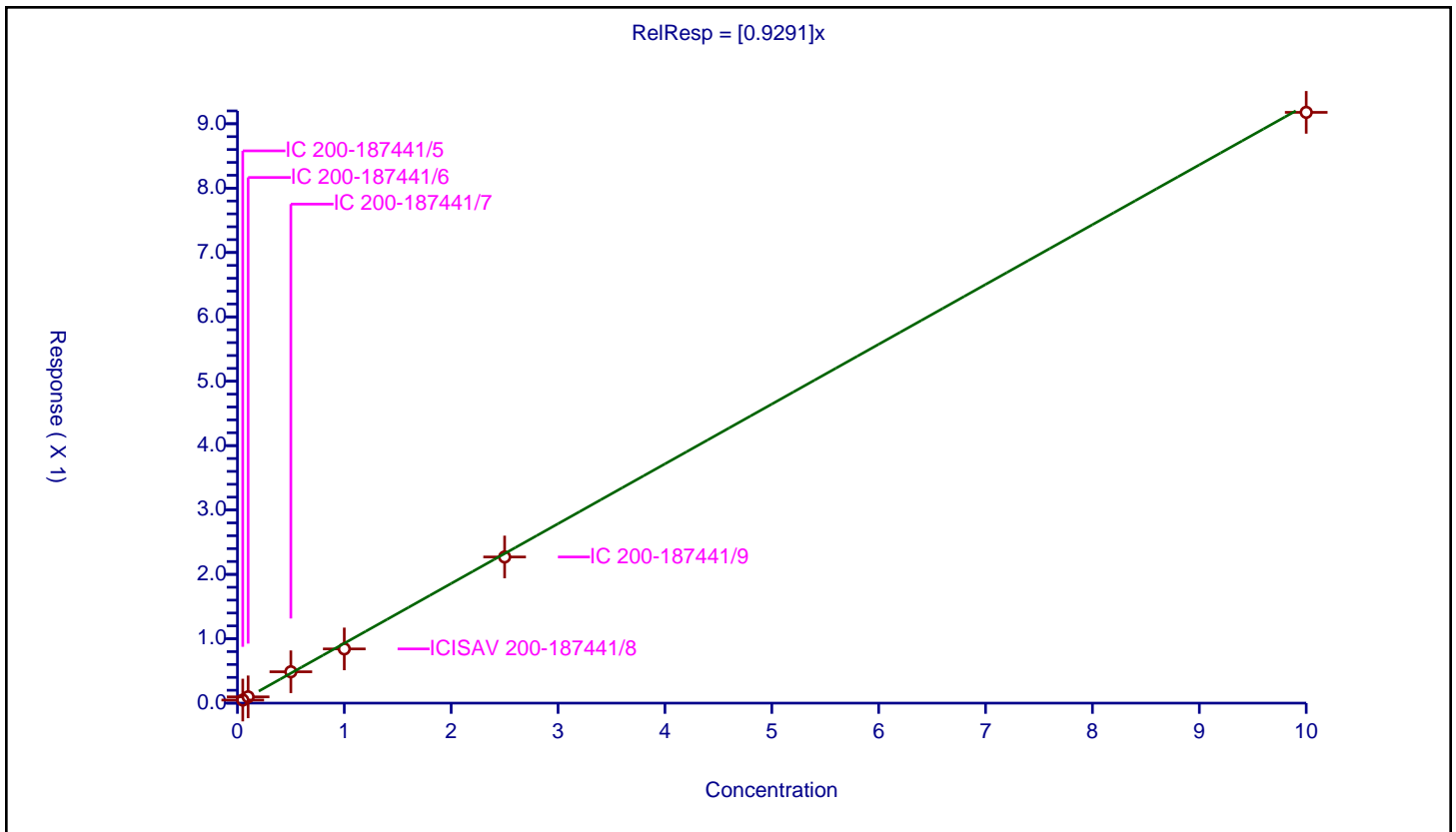
/ N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9291

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.047988	1.25	344409.0	0.95976	Y
2	IC 200-187441/6	0.1	0.097269	1.25	314232.0	0.972689	Y
3	IC 200-187441/7	0.5	0.486989	1.25	369795.0	0.973979	Y
4	ICISAV 200-187441/8	1.0	0.842144	1.25	400616.0	0.842144	Y
5	IC 200-187441/9	2.5	2.270419	1.25	349833.0	0.908168	Y
6	IC 200-187441/10	10.0	9.177298	1.25	311422.0	0.91773	Y



Calibration

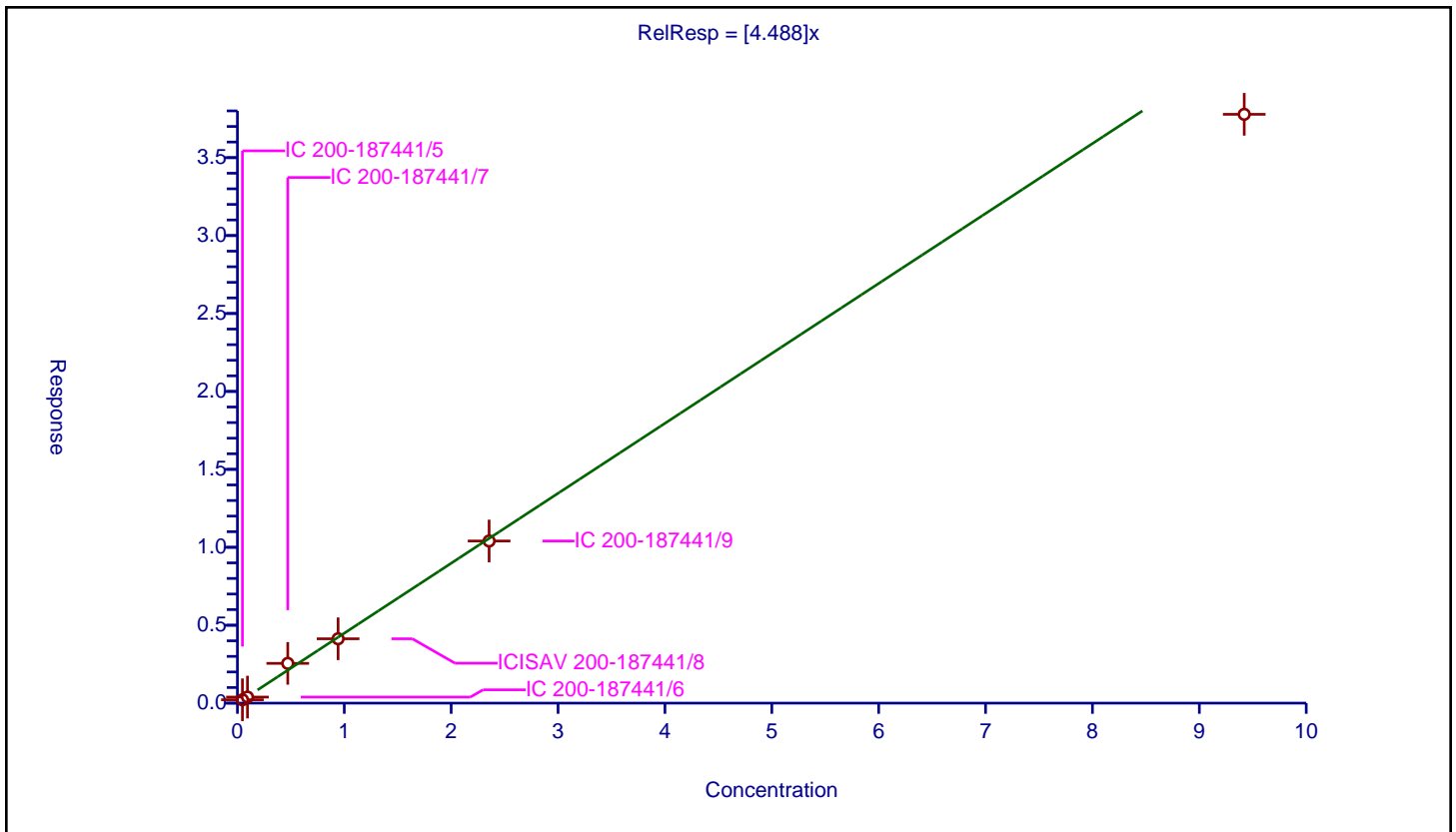
/ 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.488

Error Coefficients	
Standard Error:	10800000
Relative Standard Error:	11.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0471	0.215488	1.195	767609.0	4.575122	Y
2	IC 200-187441/6	0.0942	0.388495	1.195	806762.0	4.124156	Y
3	IC 200-187441/7	0.471	2.550641	1.195	732775.0	5.415373	Y
4	ICISAV 200-187441/8	0.942	4.129997	1.195	813855.0	4.384285	Y
5	IC 200-187441/9	2.355	10.402485	1.195	806118.0	4.417191	Y
6	IC 200-187441/10	9.42	37.780023	1.195	725859.0	4.010618	Y



Calibration

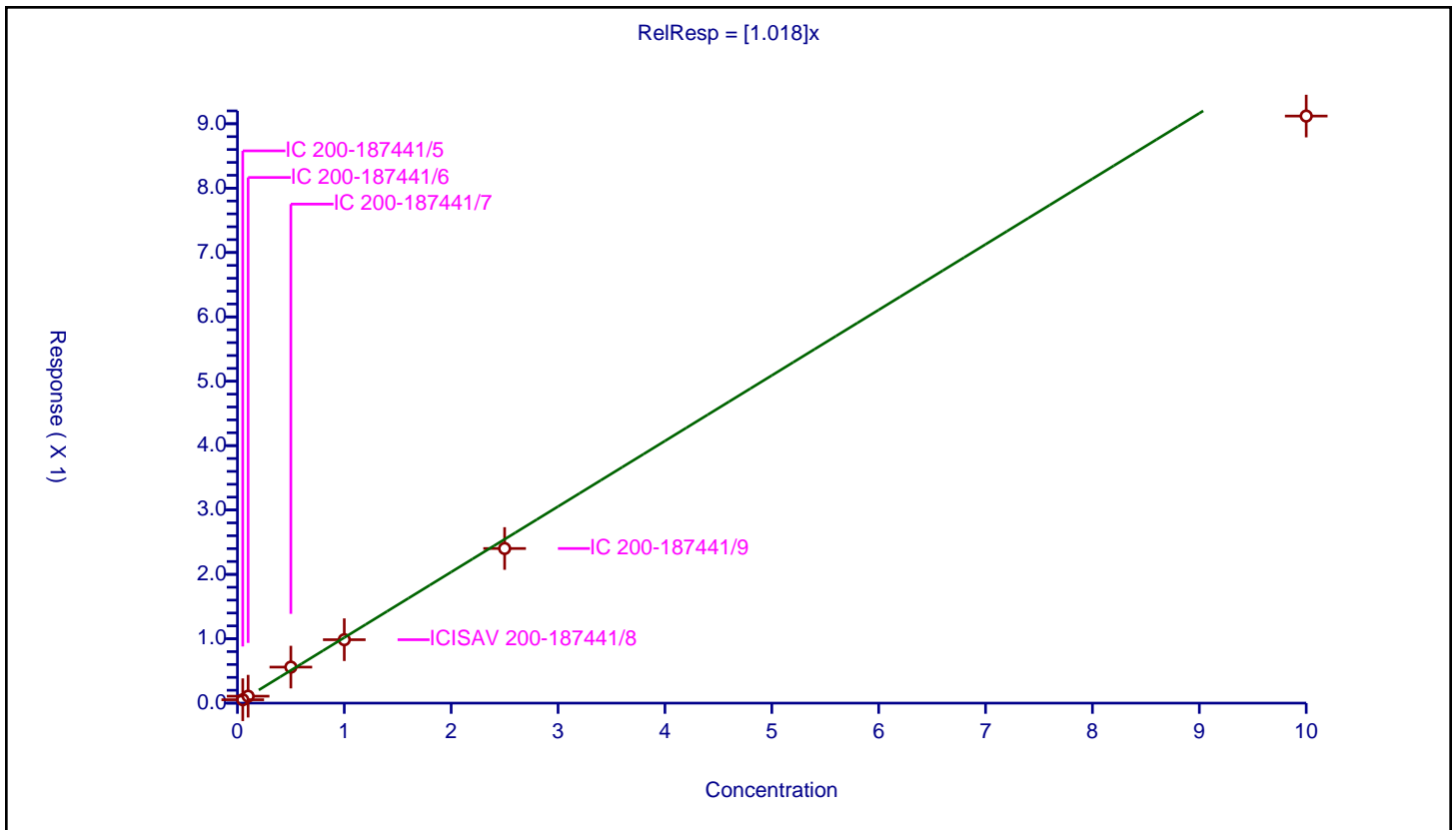
/ Perfluorododecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.018

Error Coefficients	
Standard Error:	5130000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.052704	1.25	1726095.0	1.054085	Y
2	IC 200-187441/6	0.1	0.107709	1.25	1554552.0	1.077087	Y
3	IC 200-187441/7	0.5	0.559701	1.25	1570634.0	1.119401	Y
4	ICISAV 200-187441/8	1.0	0.985288	1.25	1511917.0	0.985288	Y
5	IC 200-187441/9	2.5	2.401997	1.25	1683692.0	0.960799	Y
6	IC 200-187441/10	10.0	9.119889	1.25	1494839.0	0.911989	Y



Calibration

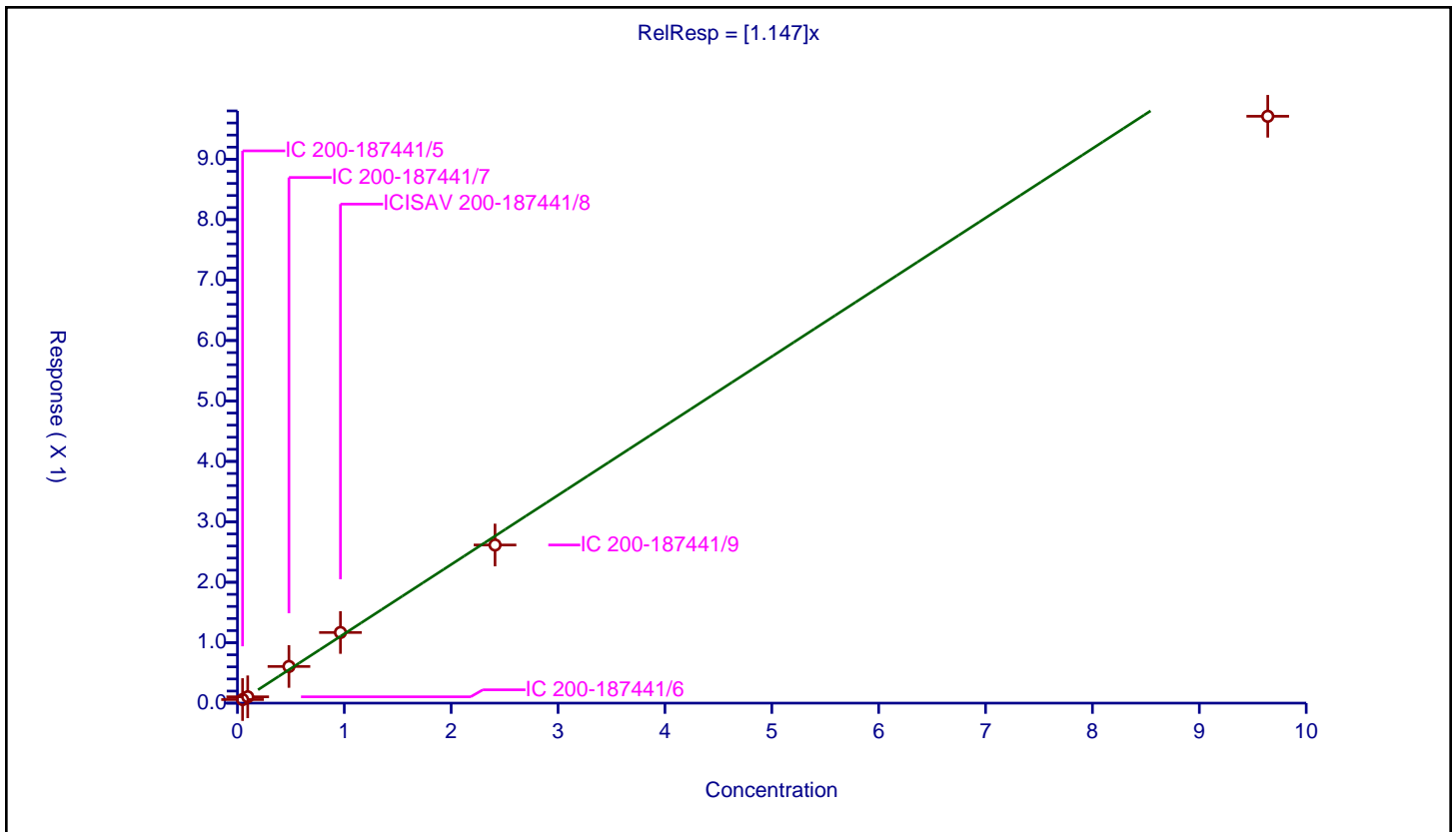
/ 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.147

Error Coefficients	
Standard Error:	943000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0482	0.059446	1.1975	252732.0	1.233314	Y
2	IC 200-187441/6	0.0964	0.104537	1.1975	260139.0	1.084404	Y
3	IC 200-187441/7	0.482	0.606724	1.1975	257487.0	1.258763	Y
4	ICISAV 200-187441/8	0.964	1.168985	1.1975	244119.0	1.21264	Y
5	IC 200-187441/9	2.41	2.616756	1.1975	246611.0	1.085791	Y
6	IC 200-187441/10	9.64	9.710786	1.1975	249058.0	1.007343	Y



Calibration

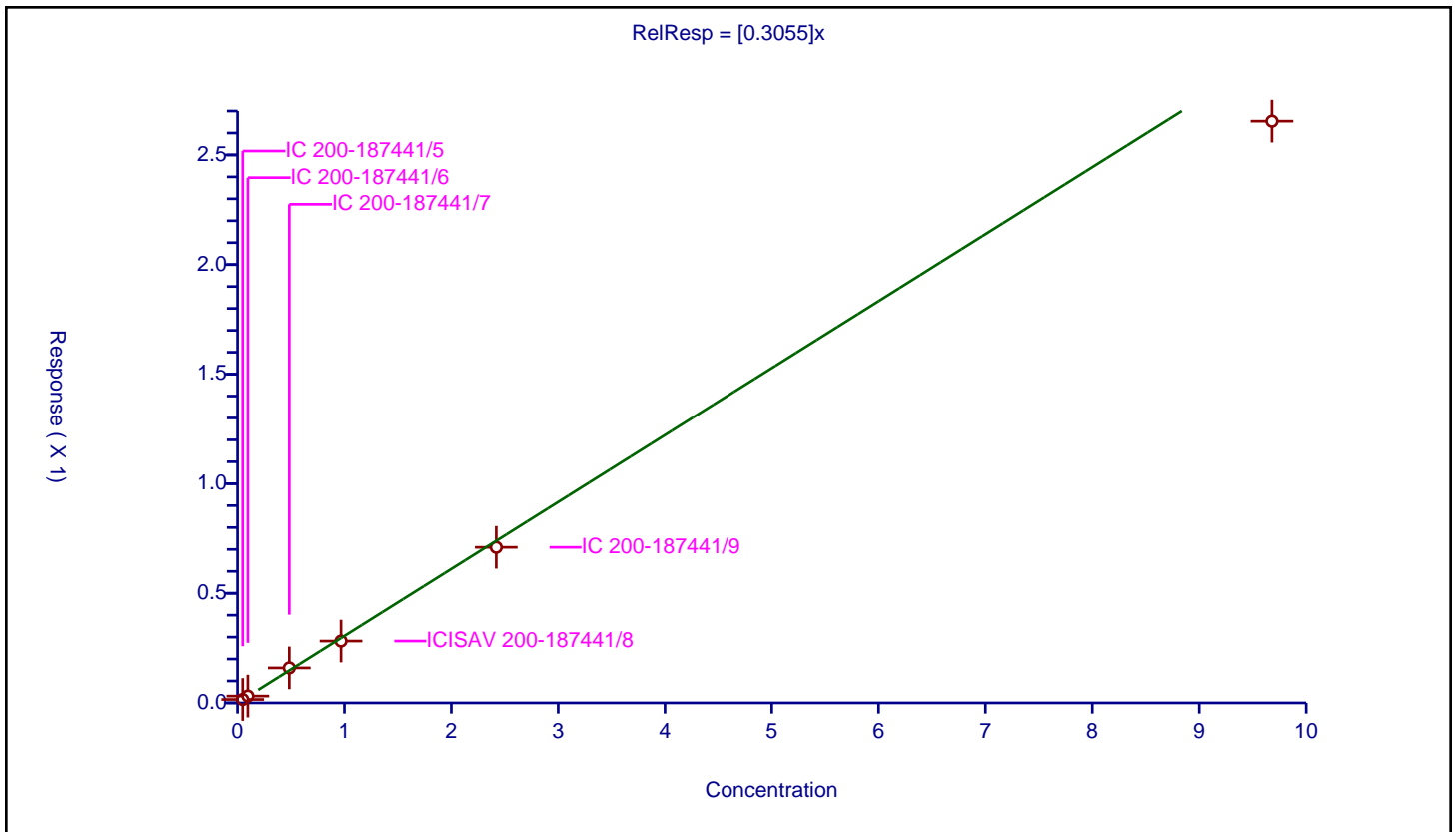
/ Perfluorododecanesulfonic acid (PFDoS)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3055

Error Coefficients	
Standard Error:	758000
Relative Standard Error:	7.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0484	0.015644	1.195	767609.0	0.323225	Y
2	IC 200-187441/6	0.0968	0.031125	1.195	806762.0	0.32154	Y
3	IC 200-187441/7	0.484	0.159561	1.195	732775.0	0.329672	Y
4	ICISAV 200-187441/8	0.968	0.282029	1.195	813855.0	0.291352	Y
5	IC 200-187441/9	2.42	0.709606	1.195	806118.0	0.293226	Y
6	IC 200-187441/10	9.68	2.653901	1.195	725859.0	0.274163	Y



Calibration

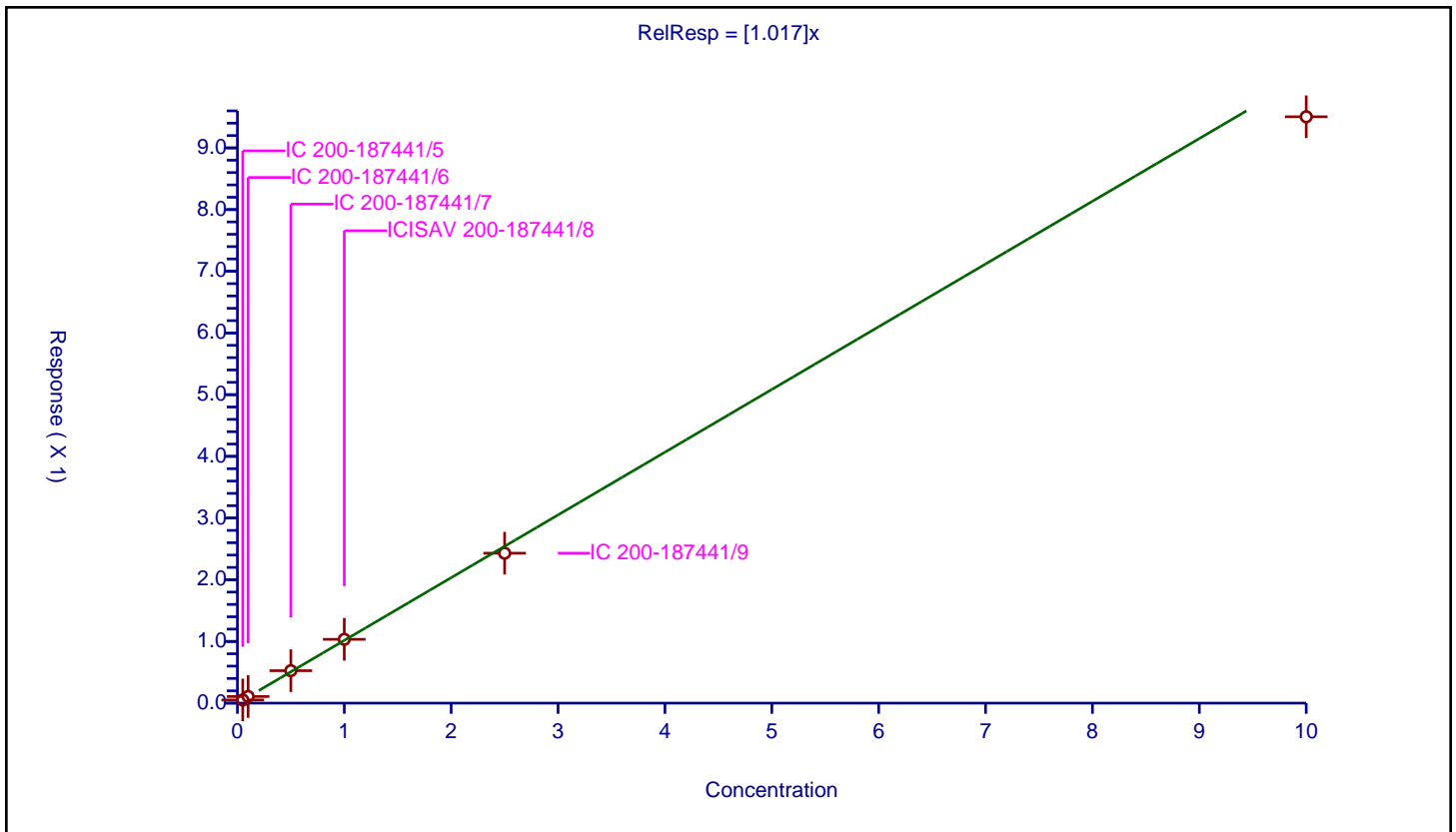
/ Perfluorotridecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.017

Error Coefficients	
Standard Error:	5330000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.051095	1.25	1726095.0	1.021902	Y
2	IC 200-187441/6	0.1	0.107097	1.25	1554552.0	1.070968	Y
3	IC 200-187441/7	0.5	0.525871	1.25	1570634.0	1.051742	Y
4	ICISAV 200-187441/8	1.0	1.034181	1.25	1511917.0	1.034181	Y
5	IC 200-187441/9	2.5	2.430315	1.25	1683692.0	0.972126	Y
6	IC 200-187441/10	10.0	9.504422	1.25	1494839.0	0.950442	Y



Calibration

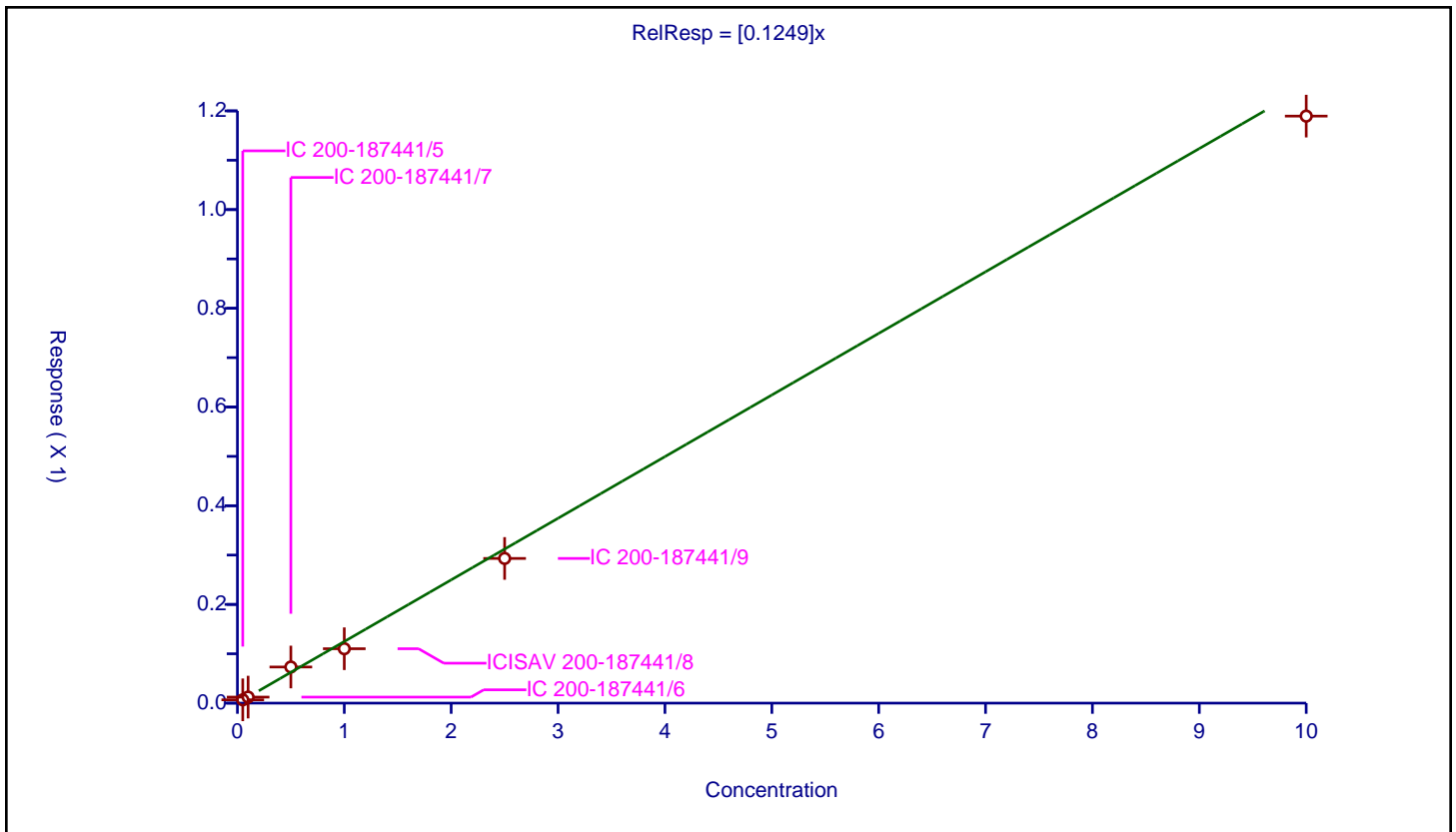
/ Perfluorotetradecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1249

Error Coefficients	
Standard Error:	550000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.006699	1.25	1359960.0	0.133975	Y
2	IC 200-187441/6	0.1	0.012232	1.25	1461569.0	0.122317	Y
3	IC 200-187441/7	0.5	0.073206	1.25	1269926.0	0.146412	Y
4	ICISAV 200-187441/8	1.0	0.110229	1.25	1479086.0	0.110229	Y
5	IC 200-187441/9	2.5	0.293165	1.25	1419059.0	0.117266	Y
6	IC 200-187441/10	10.0	1.189437	1.25	1234482.0	0.118944	Y



Calibration

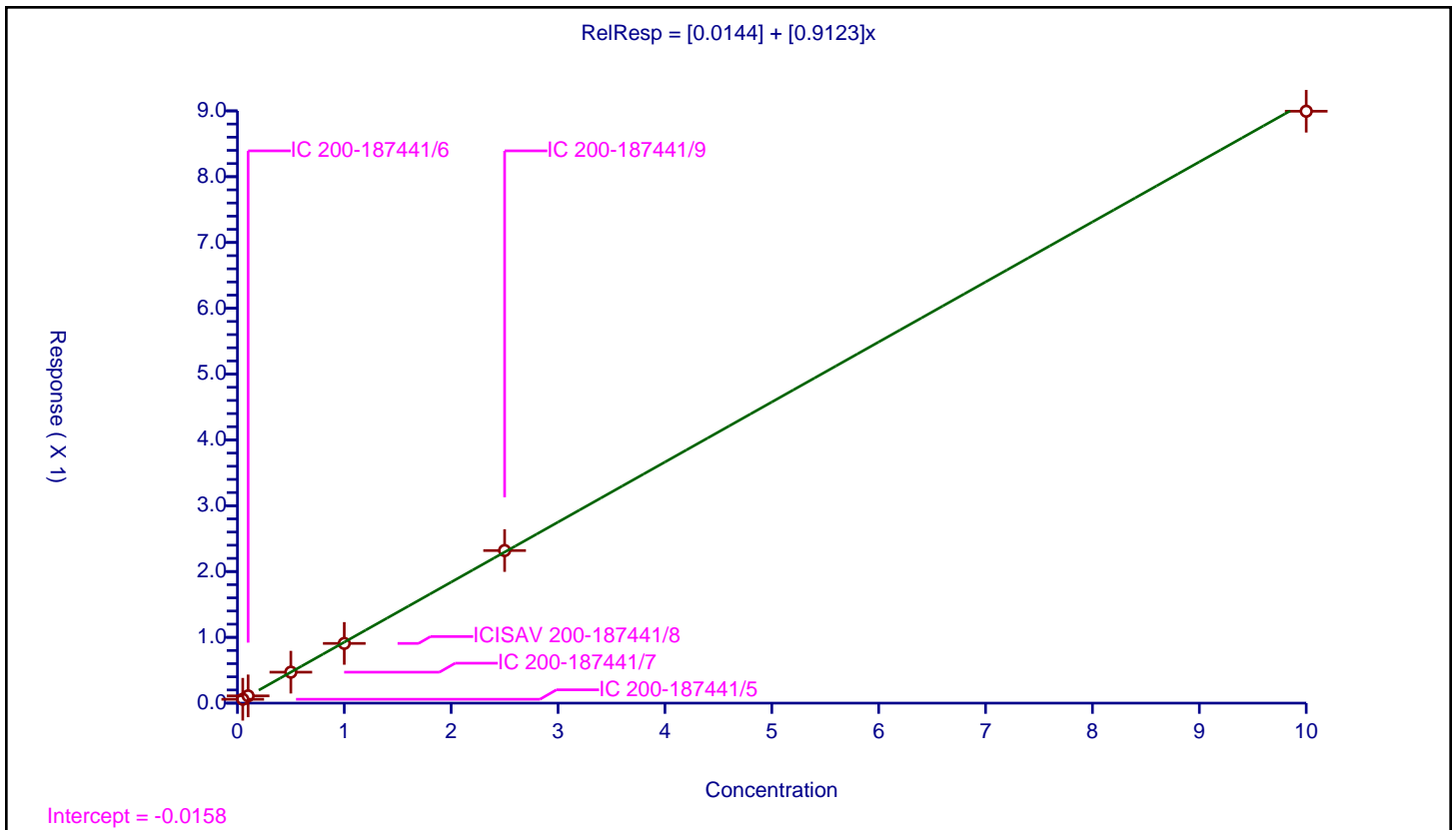
/ Perfluorohexadecanoic acid

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0144
Slope:	0.9123

Error Coefficients	
Standard Error:	5780000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.05891	1.25	1635507.0	1.178197	Y
2	IC 200-187441/6	0.1	0.110218	1.25	1624889.0	1.102183	Y
3	IC 200-187441/7	0.5	0.470464	1.25	1733261.0	0.940927	Y
4	ICISAV 200-187441/8	1.0	0.907637	1.25	1823724.0	0.907637	Y
5	IC 200-187441/9	2.5	2.31905	1.25	1735459.0	0.92762	Y
6	IC 200-187441/10	10.0	8.994726	1.25	1527972.0	0.899473	Y



Calibration

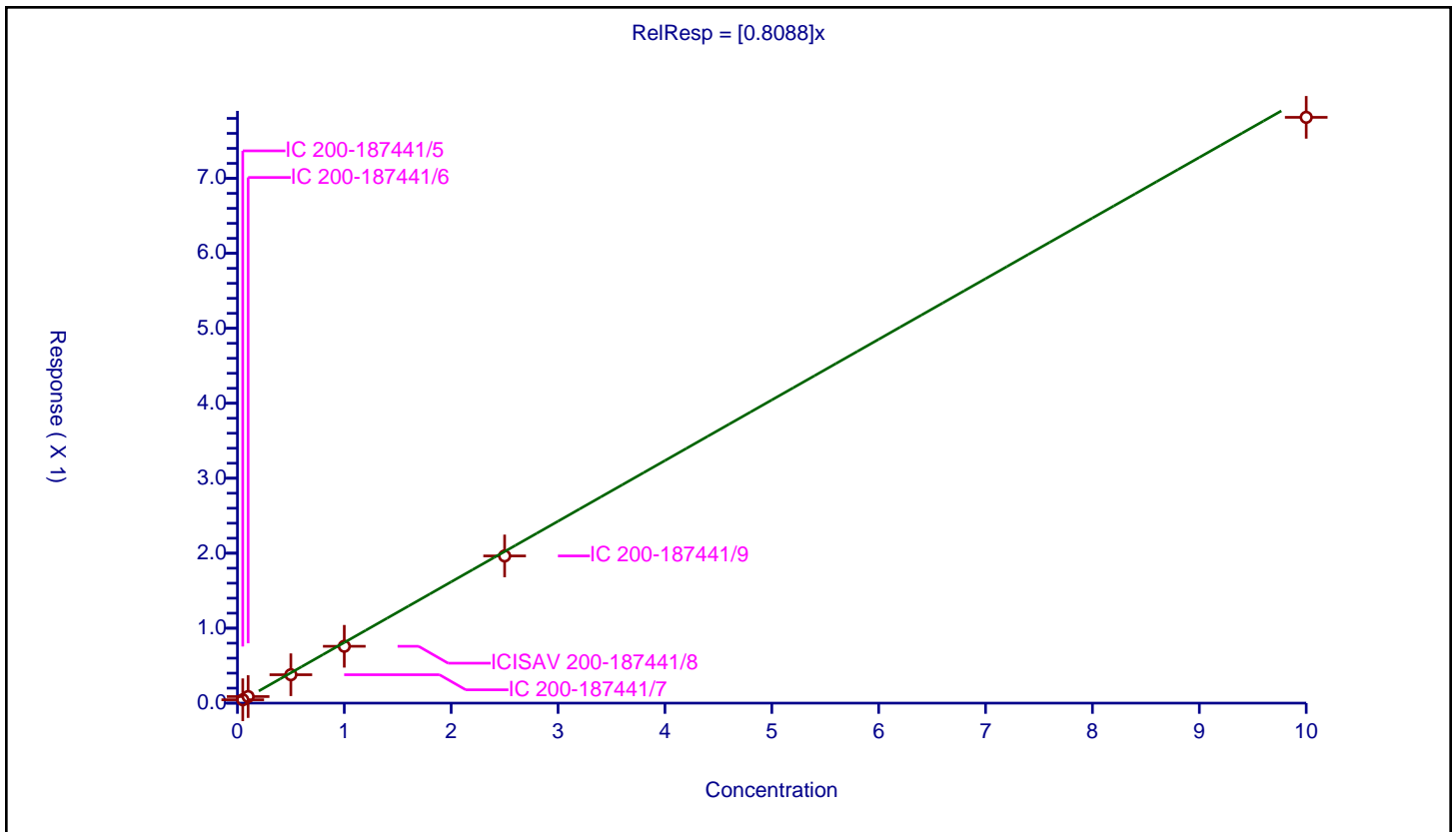
/ Perfluorooctadecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8088

Error Coefficients	
Standard Error:	4480000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.044789	1.25	1635507.0	0.895777	Y
2	IC 200-187441/6	0.1	0.087441	1.25	1624889.0	0.874414	Y
3	IC 200-187441/7	0.5	0.378868	1.25	1733261.0	0.757736	Y
4	ICISAV 200-187441/8	1.0	0.758297	1.25	1823724.0	0.758297	Y
5	IC 200-187441/9	2.5	1.963356	1.25	1735459.0	0.785342	Y
6	IC 200-187441/10	10.0	7.813849	1.25	1527972.0	0.781385	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: ICV 200-187441/12 Calibration Date: 01/11/2023 18:40
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230111ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		1.092		1.11	1.00	11.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.069		0.943	1.01	-6.7	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.041		0.972	1.00	-2.8	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	3.189		1.08	1.00	7.8	30.0
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.139		1.09	1.01	8.1	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.361		1.10	1.00	10.1	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.9531		0.963	1.01	-4.7	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	1.134		1.07	1.00	6.5	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.109		1.02	1.01	1.1	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	6.248		1.09	1.00	8.9	30.0
6:2 FTS	AveID	2.290	2.159		0.943	1.00	-5.7	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.544		1.06	1.00	6.1	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.084		0.996	1.00	-0.4	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.107		0.921	1.01	-8.8	30.0
Perfluorononanoic acid (PFNA)	AveID	1.022	1.118		1.10	1.00	9.5	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	3.291		1.14	1.00	13.5	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.9180		0.919	1.01	-9.0	30.0
Perfluorodecanoic acid (PFDA)	AveID	1.069	1.022		0.955	1.00	-4.5	30.0
8:2 FTS	AveID	1.814	2.035		1.13	1.01	12.2	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.9863		0.981	1.00	-1.9	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.9673		1.07	1.00	7.3	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7903		1.06	1.01	5.1	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.029		0.943	1.00	-5.7	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.8865		0.954	1.00	-4.6	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	4.700		1.05	1.00	4.7	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.018	1.007		0.989	1.00	-1.1	30.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	0.9476		0.796	0.964	-17.4	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2879		0.912	0.968	-5.8	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: ICV 200-187441/12 Calibration Date: 01/11/2023 18:40
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230111ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	0.8937		0.879	1.00	-12.1	30.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1407		1.13	1.00	12.7	30.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8121		0.874	1.00	-12.6	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.7640		0.945	1.00	-5.5	30.0
13C4 PFBA	Ave	1.150	0.8237		0.895	1.25	-28.4	50.0
13C5 PFPeA	Ave	0.9294	0.6976		0.938	1.25	-24.9	50.0
13C3 PFBS	Ave	1.020	0.7495		0.854	1.16	-26.5	50.0
M2-4:2 FTS	Ave	0.0825	0.0569		0.805	1.17	-31.0	50.0
13C2 PFHxA	Ave	0.9657	0.7273		0.941	1.25	-24.7	50.0
13C3 HFPO-DA	Ave	0.1673	0.1220		0.912	1.25	-27.1	50.0
13C4 PFHpA	Ave	0.9669	0.6859		0.887	1.25	-29.1	50.0
18O2 PFHxS	Ave	0.7424	0.5259		0.838	1.18	-29.2	50.0
M2-6:2 FTS	Ave	0.1170	0.0981		0.995	1.19	-16.2	50.0
13C4 PFOA	Ave	1.024	0.7927		0.967	1.25	-22.6	50.0
13C4 PFOS	Ave	0.4514	0.3236		0.857	1.20	-28.3	50.0
13C5 PFNA	Ave	0.998	0.7365		0.923	1.25	-26.2	50.0
13C2 PFDA	Ave	1.024	0.8506		1.04	1.25	-16.9	50.0
M2-8:2 FTS	Ave	0.1466	0.1061		0.867	1.20	-27.6	50.0
13C8 FOSA	Ave	0.8320	0.5577		0.838	1.25	-33.0	50.0
d3-NMeFOSAA	Ave	0.2013	0.1476		0.917	1.25	-26.6	50.0
13C2 PFUnA	Ave	0.8836	0.6801		0.962	1.25	-23.0	50.0
d5-NEtFOSAA	Ave	0.1934	0.1416		0.915	1.25	-26.8	50.0
13C2 PFDoA	Ave	0.8860	0.6778		0.956	1.25	-23.5	50.0
13C2 PFTeDA	Ave	0.7620	0.5637		0.925	1.25	-26.0	50.0
13C2 PFHxDA	Ave	0.9339	0.6753		0.904	1.25	-27.7	50.0

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Jan-2023 18:40:11 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0053969-012 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:27:07 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 13:12:12

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.604	2124343	0.8955	71.6	14777	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.094	-0.008	1.000	1856636	1.11		169		M
D 3 13C5 PFPeA	267.90 > 223.00	2.398	2.370	0.028	0.694	1799214	0.9382	75.1	7923	
4 Perfluoropentanoic acid	262.90 > 219.00	2.398	2.370	0.028	1.000	1553802	0.9426		49.4	
D 47 13C3 PFBS	301.90 > 80.00	2.425	2.384	0.041	0.702	1797673	0.8539	73.5	168027	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.425	2.384	0.041	1.000	1610147	0.9719	Target=2.10	2514	
298.90 > 99.00	2.425	2.384	0.041	1.000	800179		2.01(1.05-3.15)	636		
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.706	2.669	0.037	1.000	374296	1.08		3882	
D 60 M2-4:2 FTS	329.00 > 81.00	2.706	2.669	0.037	0.783	137028	0.8050	69.0	179	
D 7 13C2 PFHxA	315.00 > 270.00	2.744	2.694	0.050	0.794	1875744	0.9414	75.3	8233	
6 Perfluorohexanoic acid	313.00 > 269.00	2.744	2.706	0.038	1.000	1725561	1.09	Target=13.16	371	
313.00 > 119.00	2.744	2.706	0.038	1.000	123654		13.95(6.58-19.74)	226		
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.756	2.706	0.050	0.885	1477031	1.10	Target=2.90	2315	
349.00 > 99.00	2.744	2.706	0.038	0.881	513028		2.88(1.45-4.35)	1193		
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.856	2.806	0.050	1.000	242361	0.9630		3926	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.856	2.806	0.050	0.827	314726	0.9117		72.9	5937	
D 11 18O2 PFHxS										
403.00 > 84.00	3.116	3.069	0.047	0.902	1283023	0.8376		70.8	6522	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.116	3.069	0.047	1.000	1215738	1.02	Target=3.18		3421	
399.00 > 99.00	3.116	3.069	0.047	1.000	353714		3.44(1.59-4.77)		721	
D 9 13C4 PFHpA										
367.00 > 322.00	3.116	3.069	0.047	0.902	1768988	0.8867		70.9	5323	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.116	3.069	0.047	1.000	1605070	1.07	Target=4.10		302	
363.00 > 169.00	3.116	3.069	0.047	1.000	401031		4.00(2.05-6.16)		759	
77 DONA										
377.00 > 251.00	3.150	3.104	0.046	0.839	4171768	1.09	Target=2.96		3141	
377.00 > 85.00	3.150	3.104	0.046	0.839	1334944		3.13(1.48-4.44)		2386	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.446	3.417	0.029	0.997	240260	0.99		83.8	988	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.446	3.417	0.029	1.000	436896	0.9430			499	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.446	3.417	0.029	0.918	1031170	1.06	Target=4.59		3914	
449.00 > 99.00	3.446	3.417	0.029	0.918	212971		4.84(2.30-6.89)		1629	
D 14 13C4 PFOA										
417.00 > 372.00	3.455	3.426	0.029	1.000	2044526	0.9673		77.4	7334	
* 62 13C2 PFOA										
415.00 > 370.00	3.455	3.426	0.029		2579133	1.25			11859	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.455	3.426	0.029	1.000	1773585	1.00	Target=2.71		126	M
413.00 > 169.00	3.455	3.426	0.029	1.000	662331		2.68(1.36-4.07)		424	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.087	797952	0.8568		71.7	3558	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	746905	0.9208	Target=4.23		782	M
499.00 > 99.00	3.754	3.754	0.0	1.000	178571		4.18(2.11-6.34)		729	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	1699352	1.09	Target=8.78		287	
463.00 > 169.00	3.773	3.774	-0.001	1.000	207021		8.21(4.39-13.17)		2487	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.092	1899659	0.9225		73.8	11934	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.909	3.922	-0.013	1.041	2197752	1.13			7837	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.043	4.043	0.0	1.077	619115	0.9189	Target=2.37		5805	
549.00 > 99.00	4.033	4.043	-0.010	1.075	261682		2.37(1.18-3.55)		2148	
D 23 13C2 PFDA										
515.00 > 470.00	4.063	4.074	-0.011	1.176	2193699	1.04		83.1	7828	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.063	4.074	-0.011	1.000	1792781	0.9554	Target=11.13		714	
513.00 > 169.00	4.063	4.074	-0.011	1.000	182940		9.80(5.56-16.69)		863	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.074	4.085	-0.011	1.179	262237	0.8668		72.4	1402	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.074	4.085	-0.011	1.000	450024	1.13			5118	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.132	4.144	-0.012	1.000	1135031	0.9807			1965	
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.196	1438431	0.8379		67.0	3641	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.204	4.226	-0.022	1.217	380791	0.9170		73.4	943	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.204	4.226	-0.022	1.000	294671	1.07			755	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.298	4.322	-0.024	1.145	532971	1.06	Target=2.45		2863	
599.00 > 99.00	4.298	4.322	-0.024	1.145	218872		2.44(1.23-3.68)		2722	
D 30 13C2 PFUnA										
565.00 > 520.00	4.322	4.346	-0.024	1.251	1754108	0.9621		77.0	5675	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.322	4.346	-0.024	1.000	1443987	0.9426	Target=10.33		381	M
563.00 > 169.00	4.322	4.346	-0.024	1.000	133863		10.79(5.17-15.50)		393	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.334	4.358	-0.024	1.000	258925	0.9541			1017	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.334	4.358	-0.024	1.254	365113	0.9151		73.2	832	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.417	4.452	-0.035	1.177	3138321	1.05			5872	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.558	4.584	-0.026	1.000	1408027	0.9889	Target=8.10		177	
613.00 > 169.00	4.558	4.584	-0.026	1.000	167645		8.40(4.05-12.15)		1941	
D 36 13C2 PFDaA										
615.00 > 570.00	4.558	4.584	-0.026	1.319	1748210	0.9563		76.5	4881	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.571	4.606	-0.035	1.122	200052	0.7964			2482	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.731	4.770	-0.039	1.260	186102	0.9122	Target=0.51		3434	
699.00 > 99.00	4.731	4.770	-0.039	1.260	355732		0.52(0.26-0.77)		3870	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.760	4.799	-0.039	1.044	1249893	0.8788	Target=6.06		156	M
663.00 > 169.00	4.760	4.799	-0.039	1.044	207450		6.03(3.03-9.09)		540	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.955	4.998	-0.043	1.000	163657	1.13	Target=0.83		1130	M
713.00 > 219.00	4.955	4.998	-0.043	1.000	158305		1.03(0.42-1.25)		461	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.955	4.998	-0.043	1.434	1453857	0.9247		74.0	5475	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.316	5.362	-0.046	1.000	1131433	0.8744	Target=6.74		160	
813.00 > 169.00	5.316	5.362	-0.046	1.000	173915		6.51(3.37-10.11)		1931	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.316	5.362	-0.046	1.539	1741575	0.9038		72.3	5764	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.674	5.711	-0.037	1.067	1064474	0.9446	Target=6.99		152	
913.00 > 169.00	5.665	5.711	-0.046	1.066	148969		7.15(3.50-10.49)		1085	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00012

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d

Injection Date: 11-Jan-2023 18:40:11

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

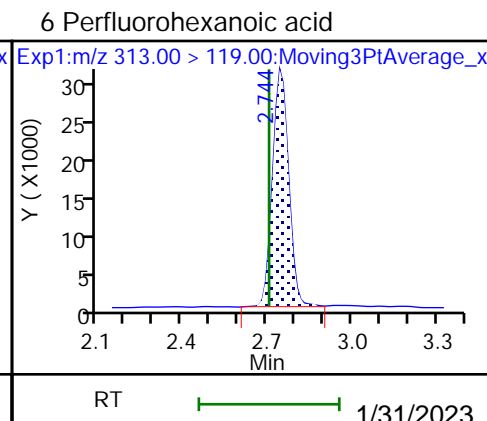
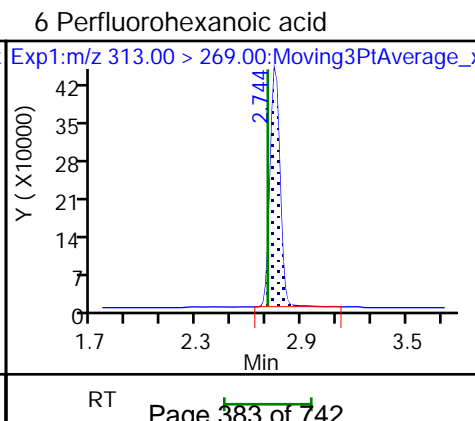
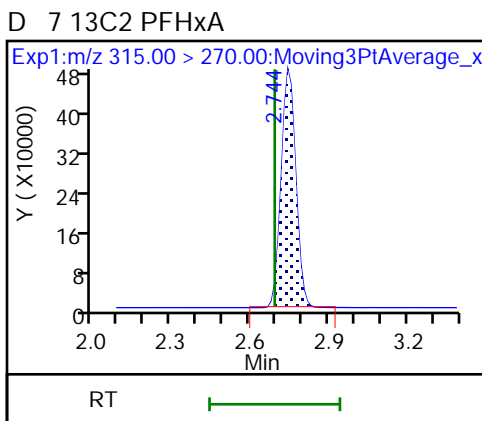
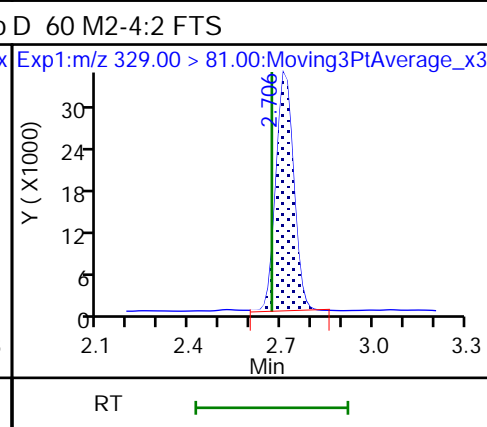
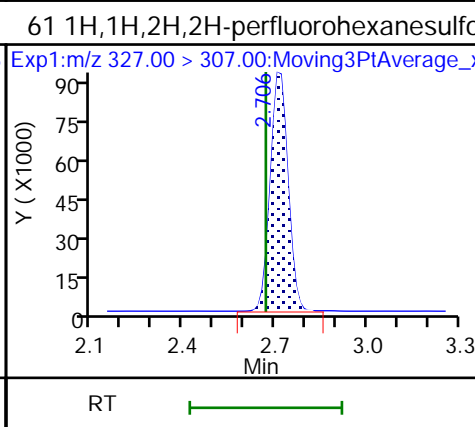
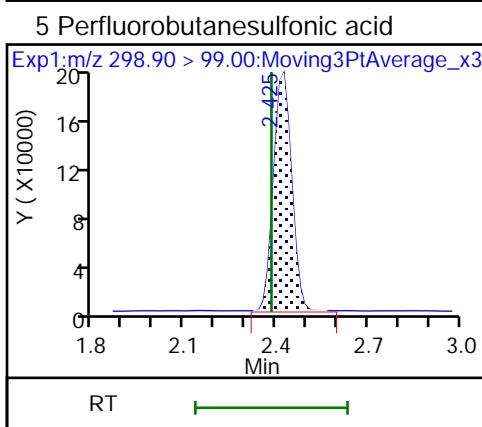
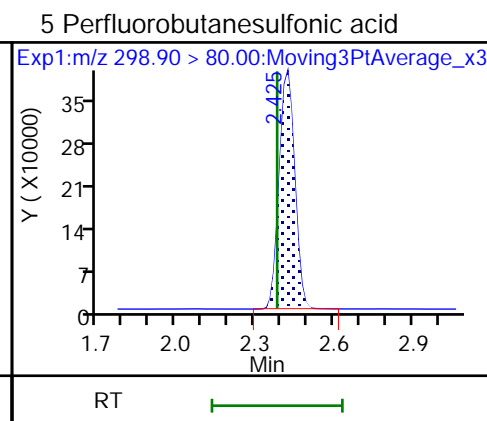
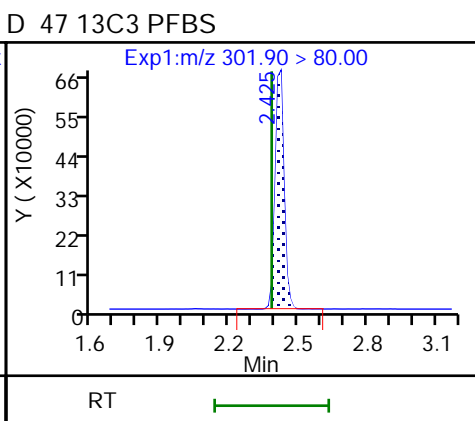
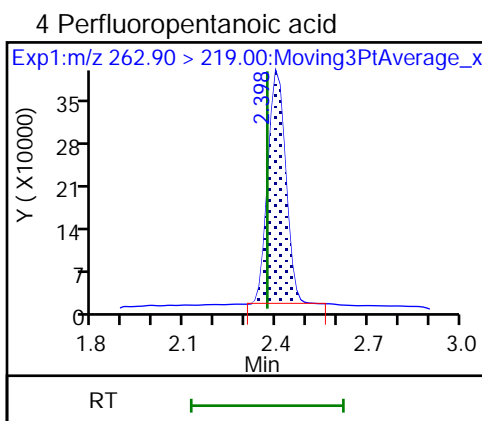
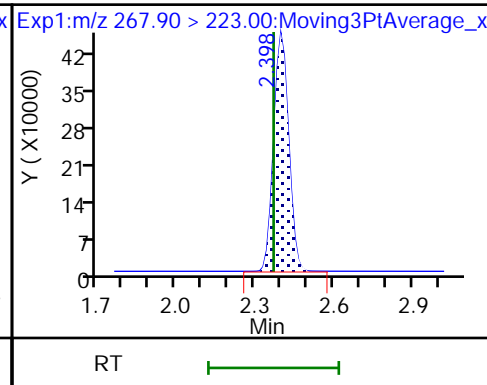
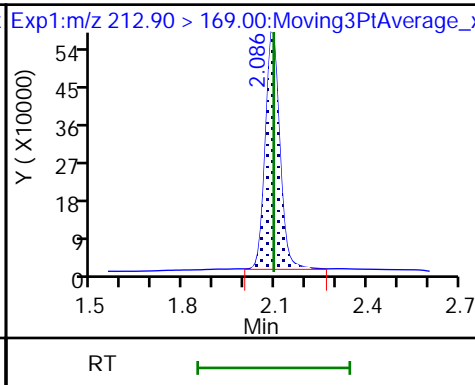
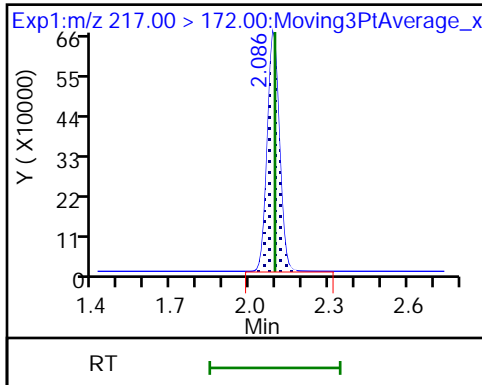
Method: PFC_LC812

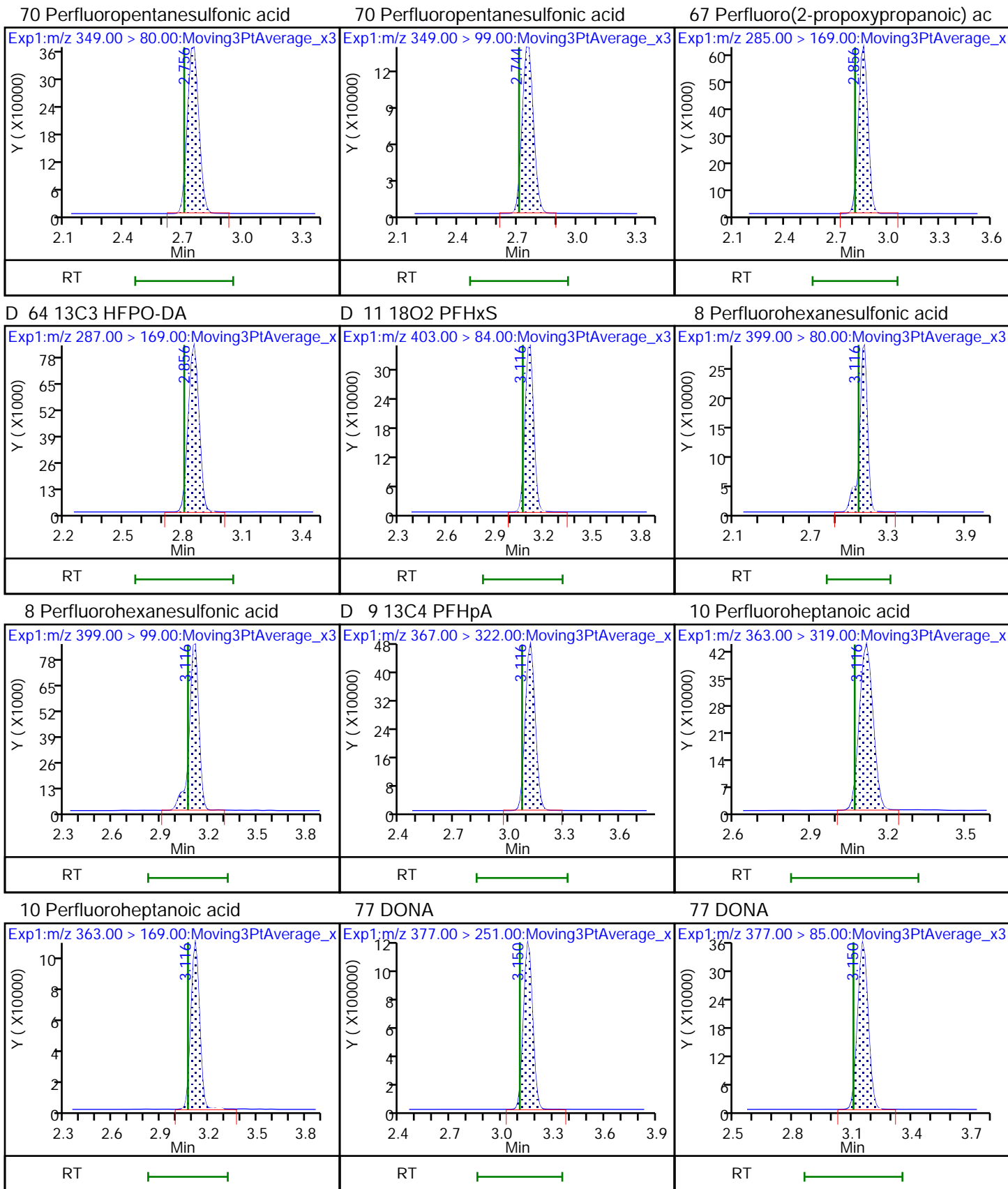
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

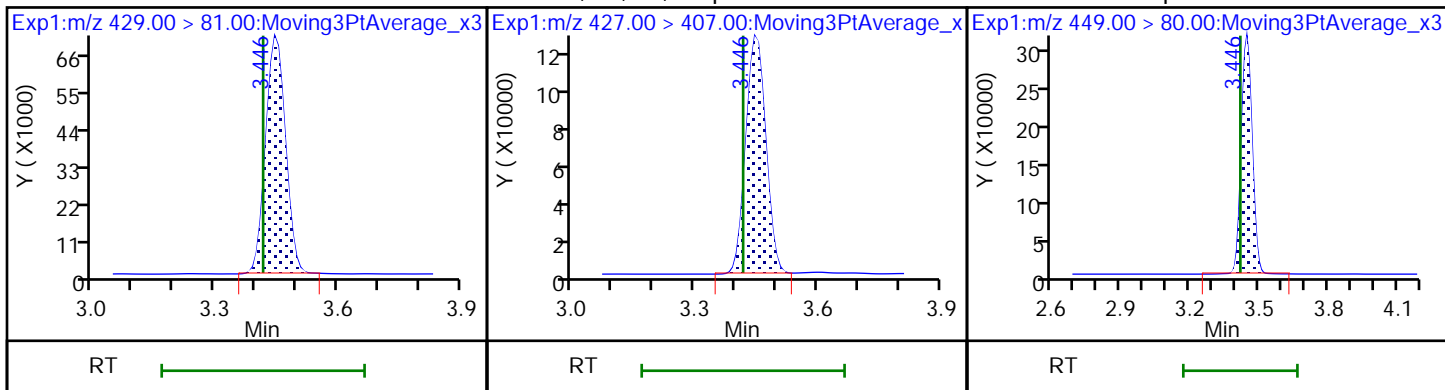




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

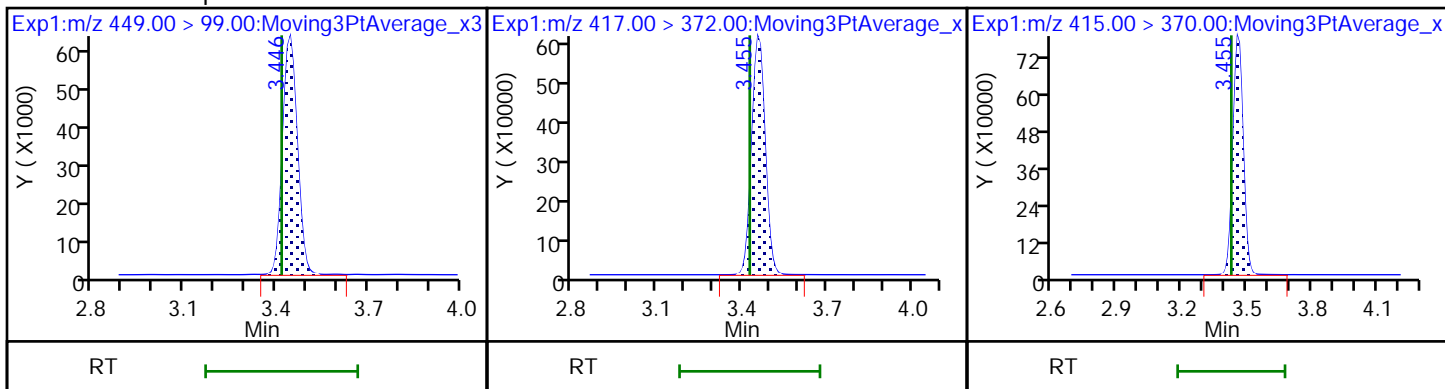
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

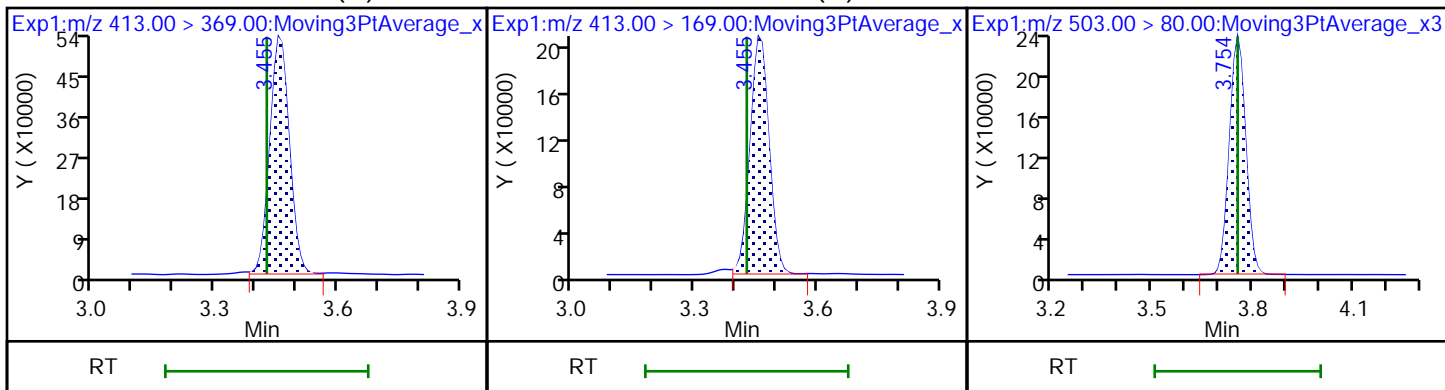
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

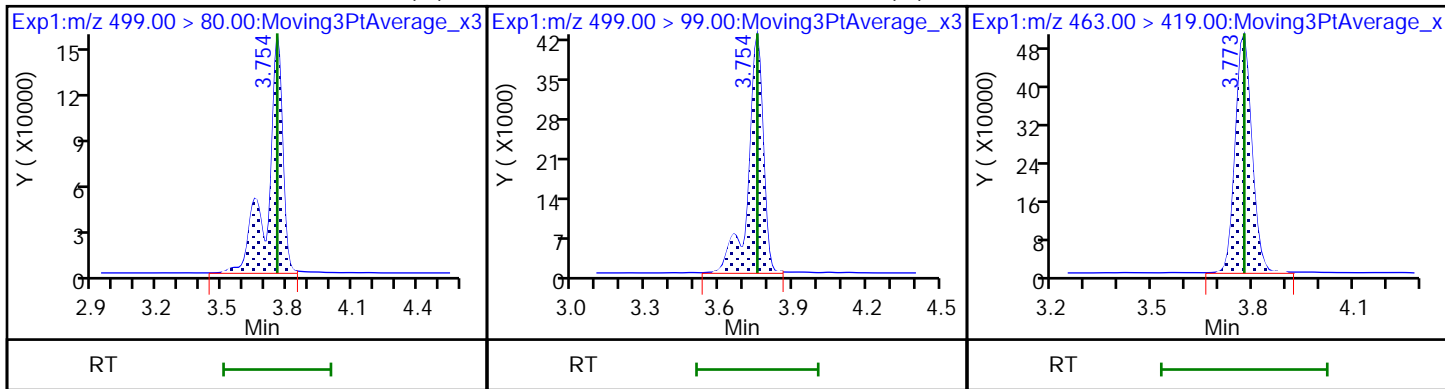
D 18 13C4 PFOS

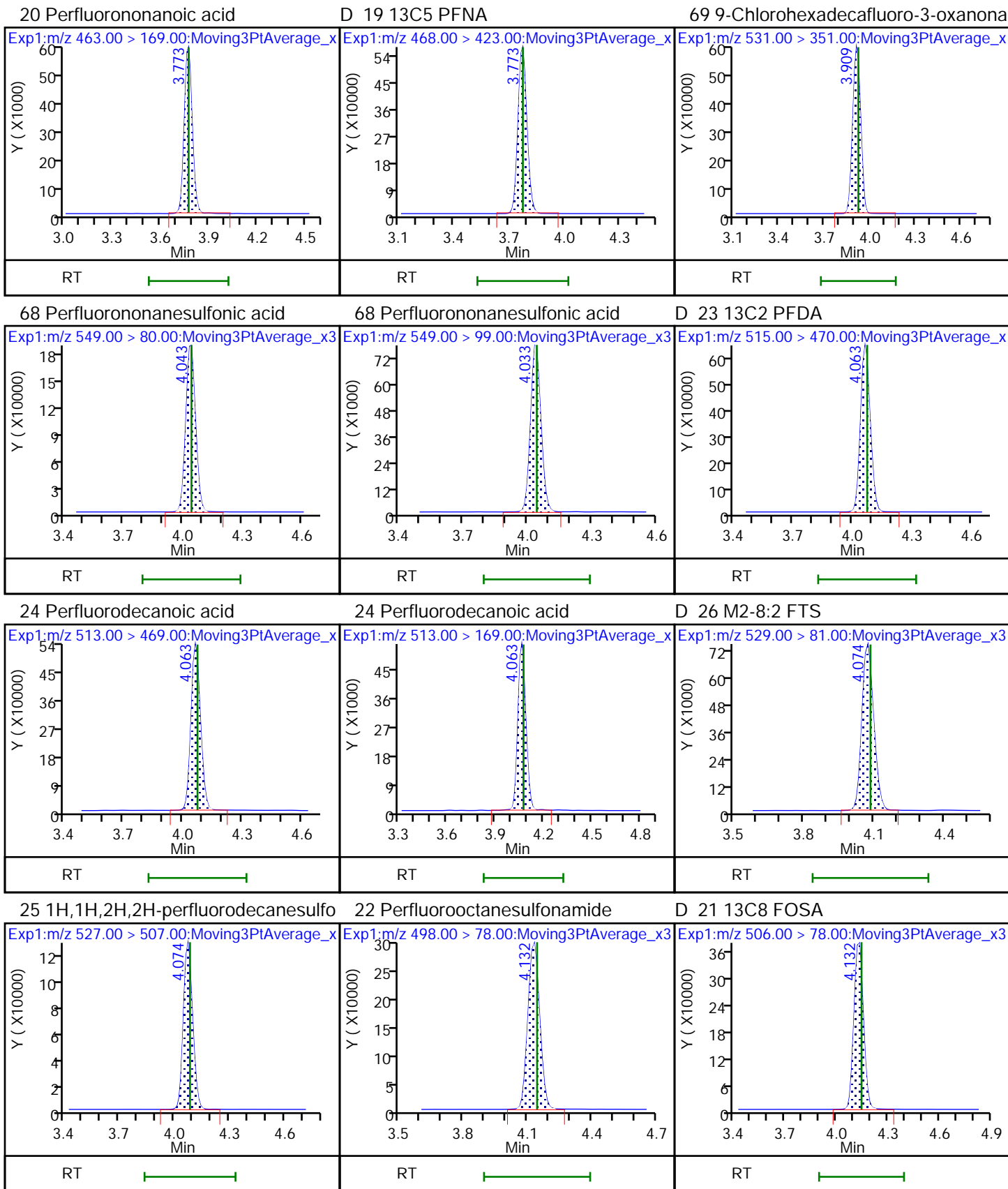


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

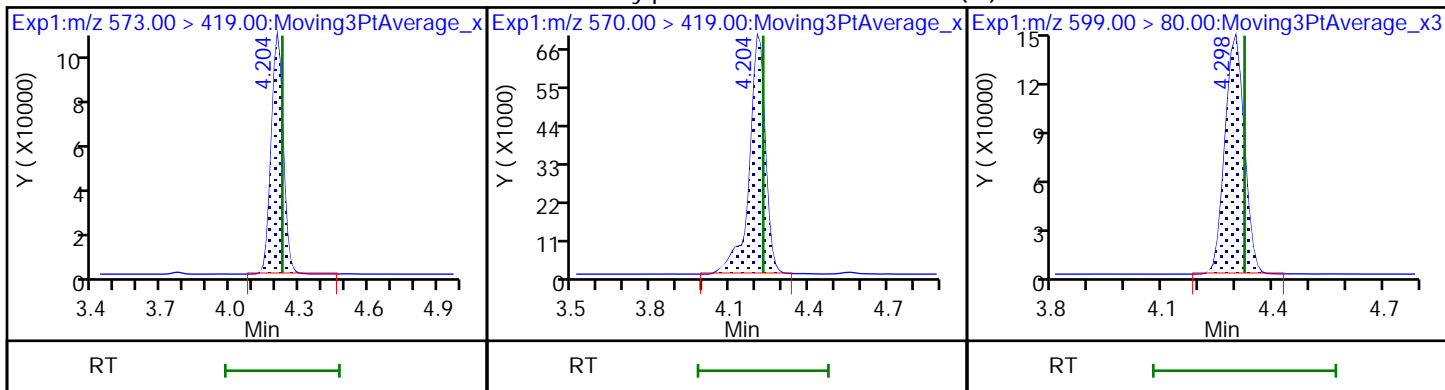
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

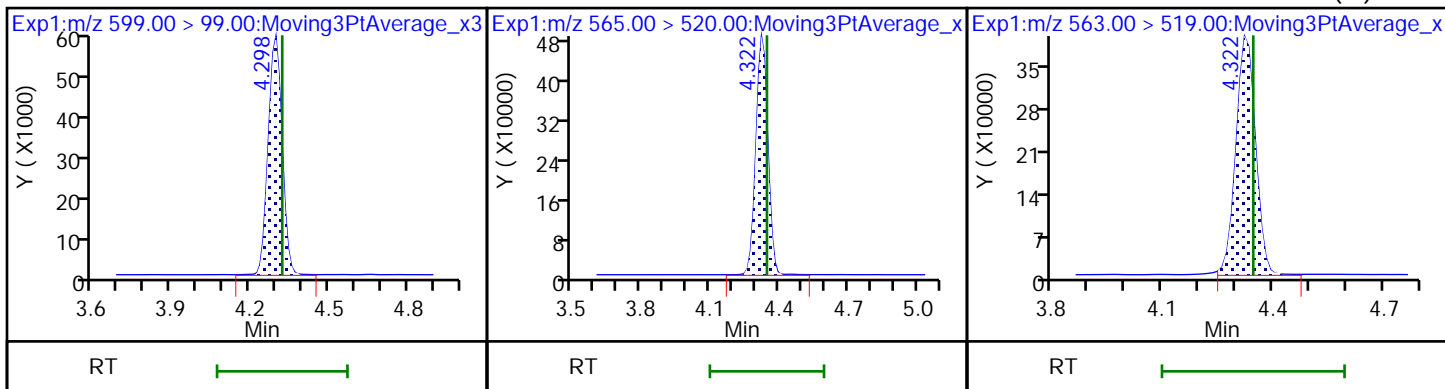
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

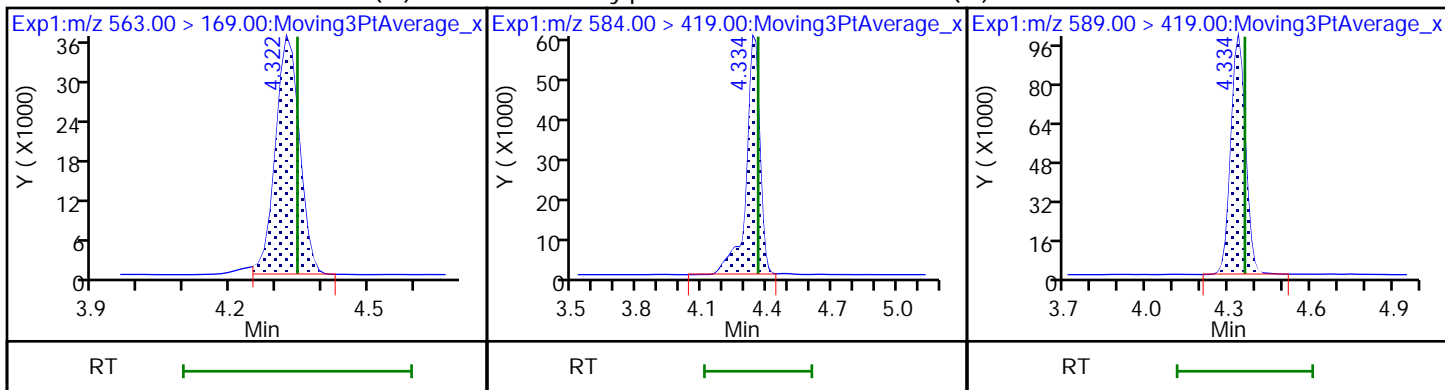
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

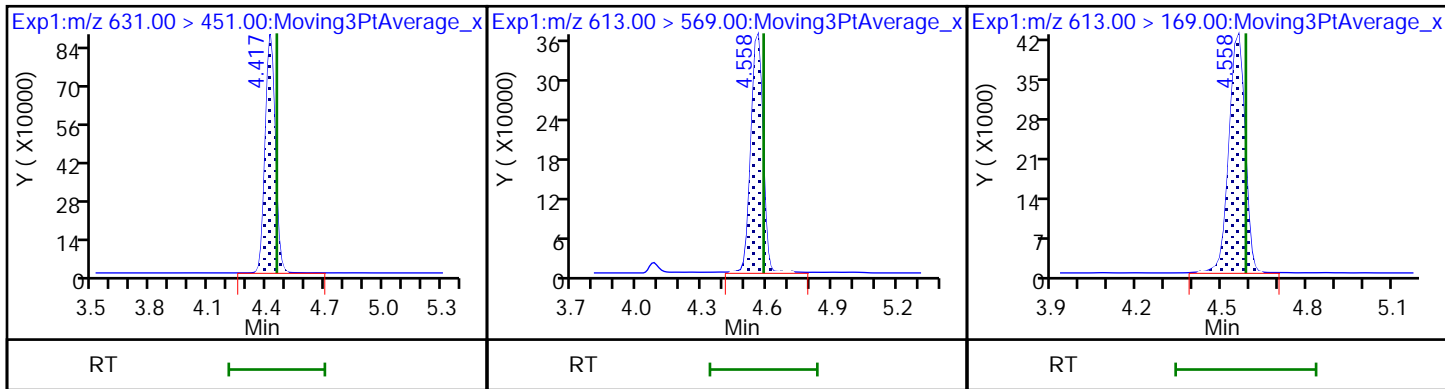
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

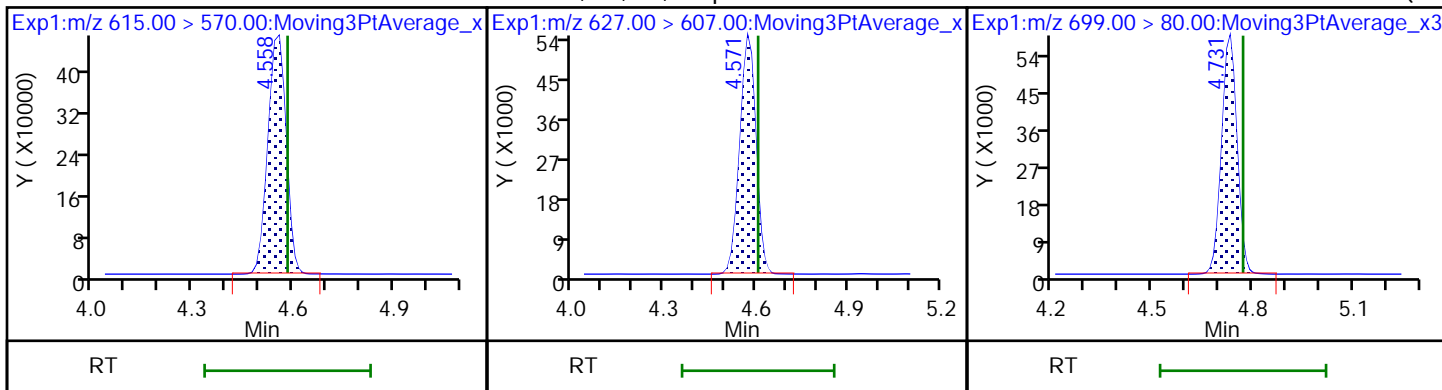
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

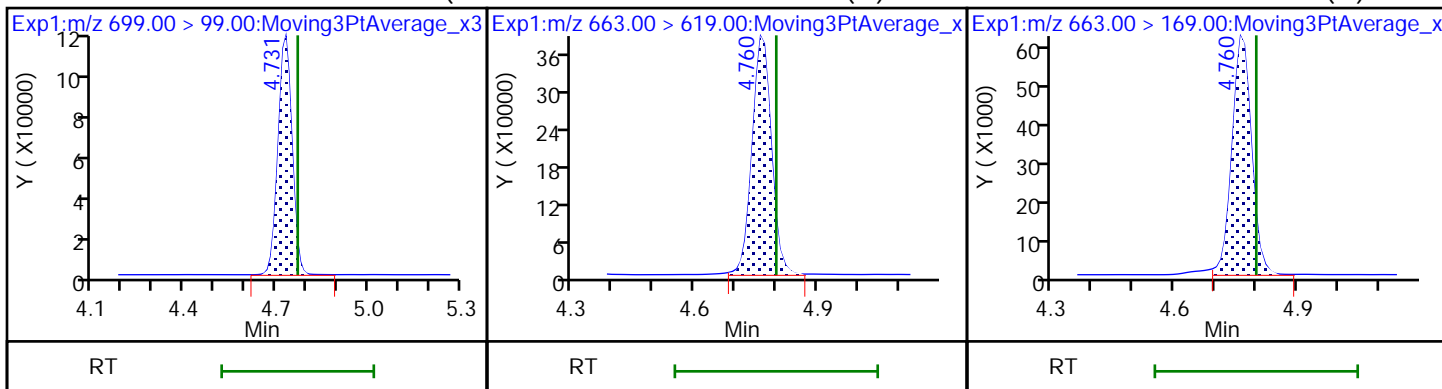
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

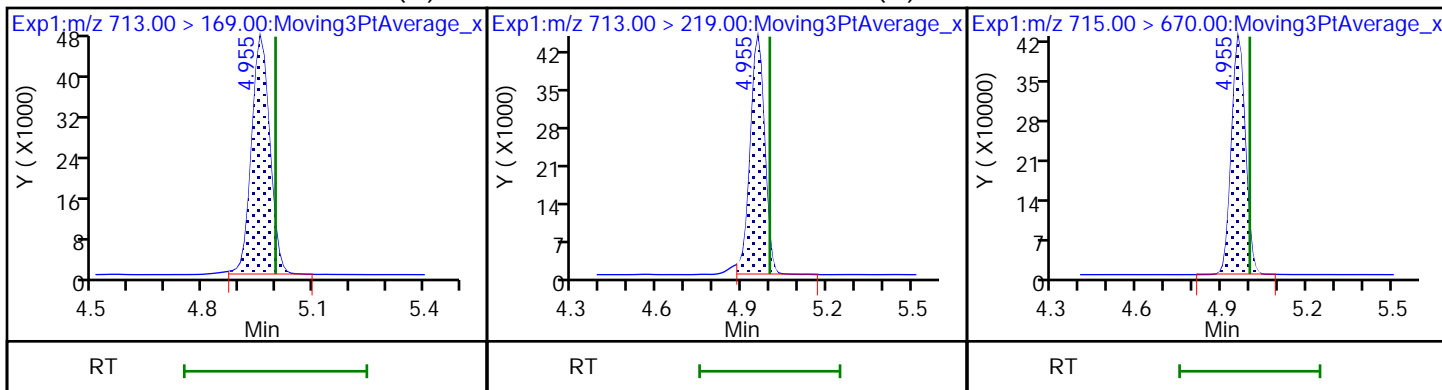
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

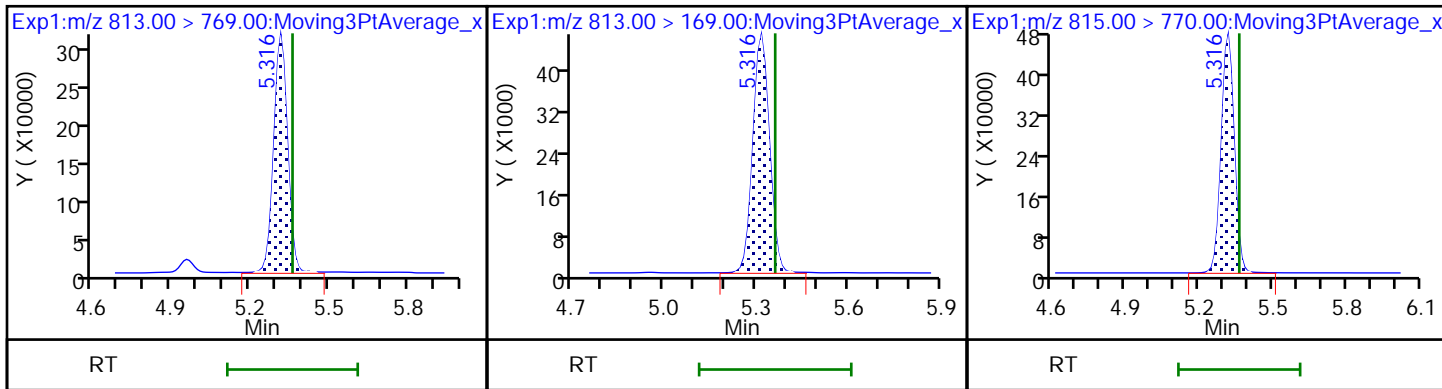
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

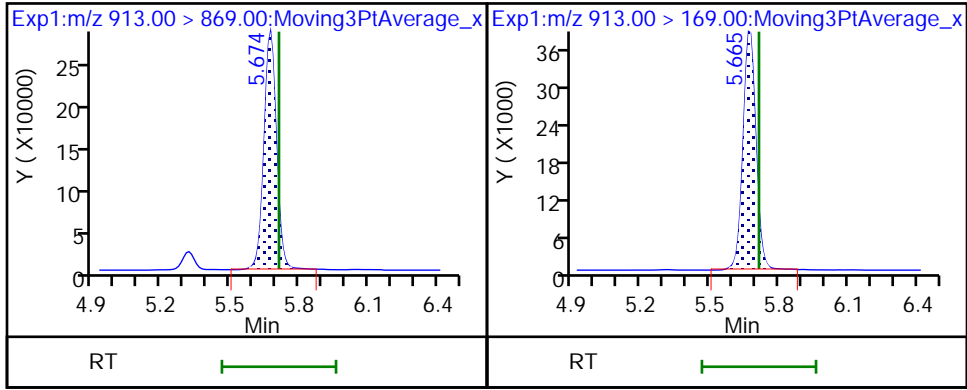
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

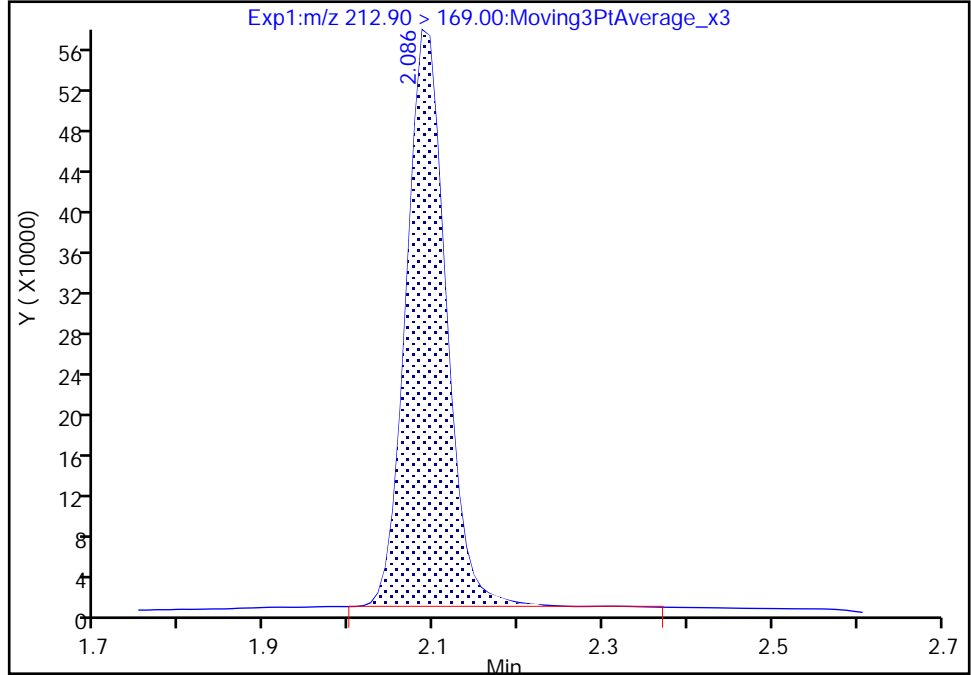
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Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

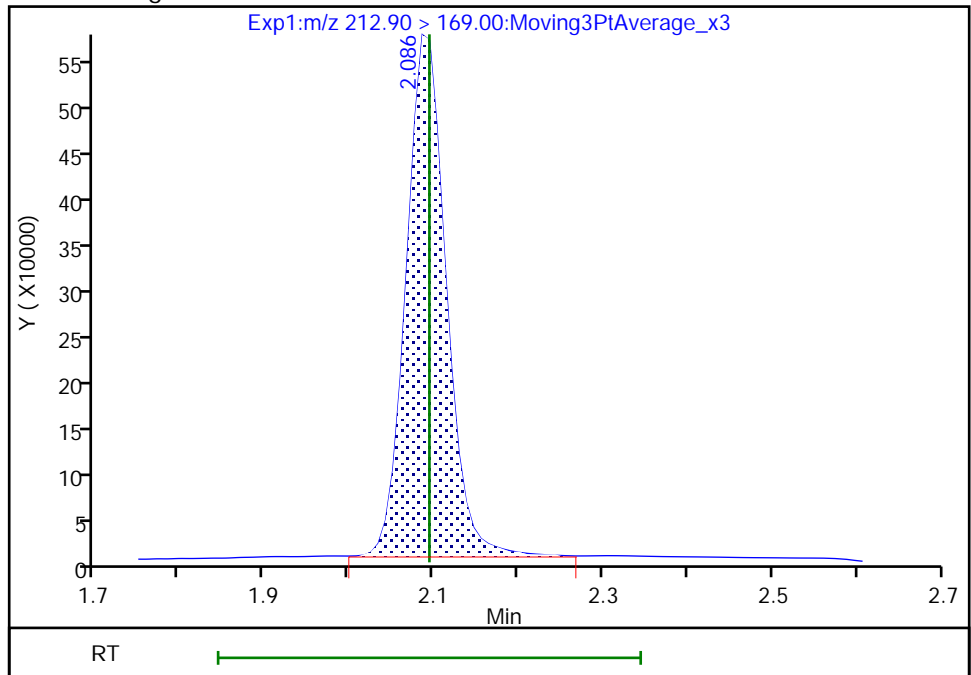
RT: 2.09
Area: 1864342
Amount: 1.114512
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1856636
Amount: 1.109726
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:09:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

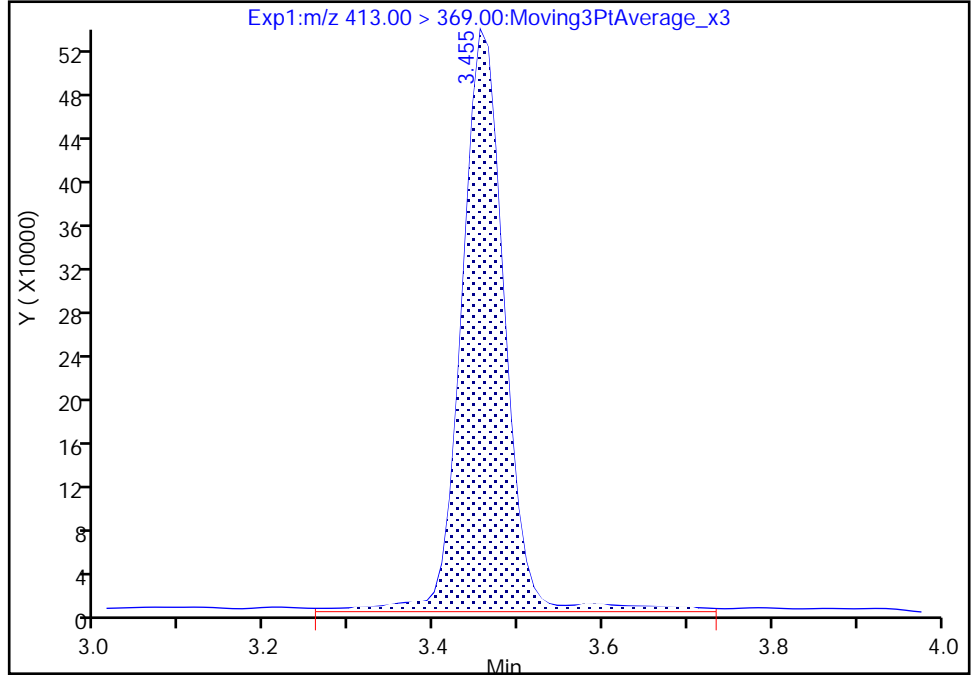
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

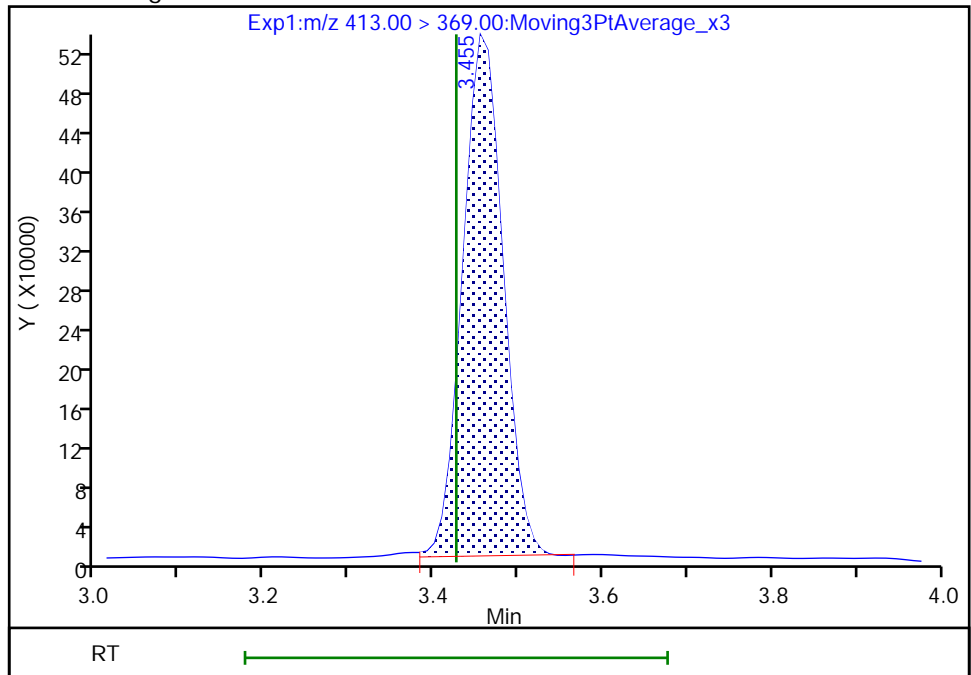
RT: 3.45
Area: 1936680
Amount: 1.088008
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1773585
Amount: 0.996383
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:10:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

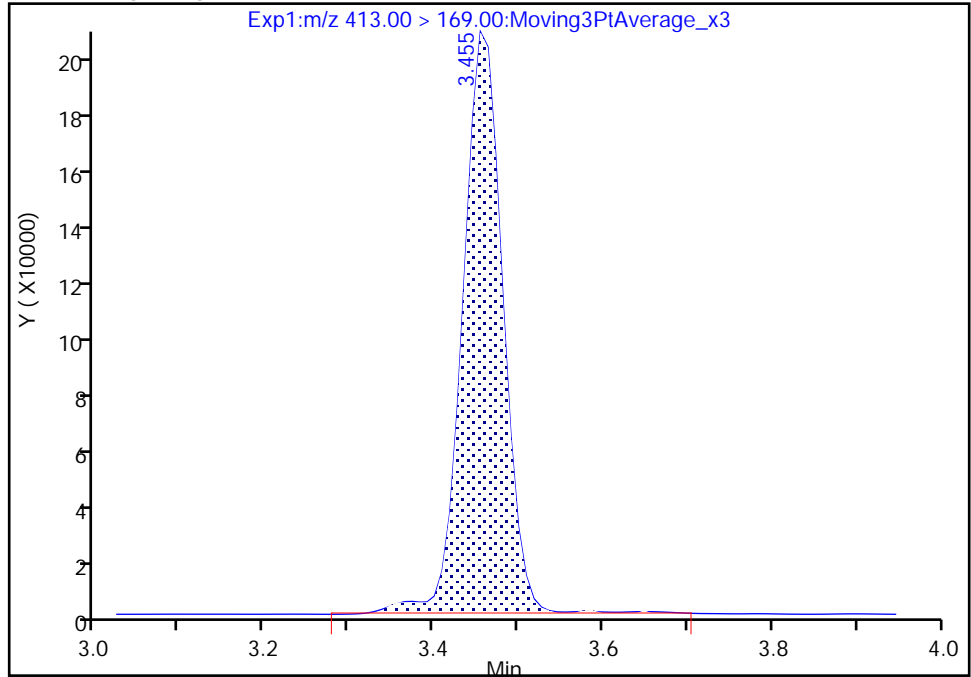
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

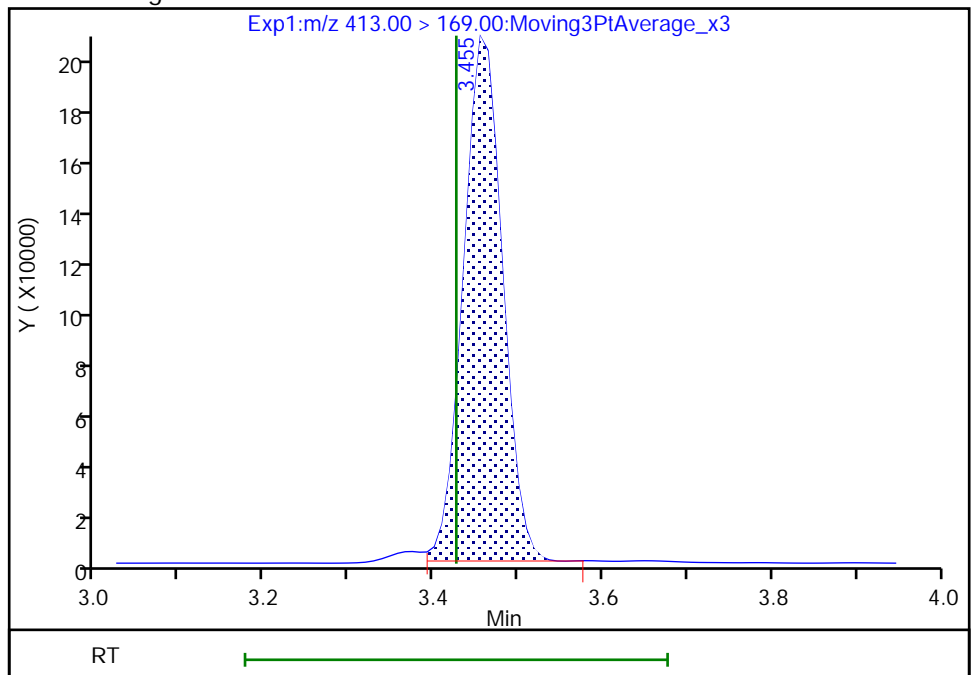
RT: 3.45
Area: 684959
Amount: 1.088008
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 662331
Amount: 0.996383
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:10:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

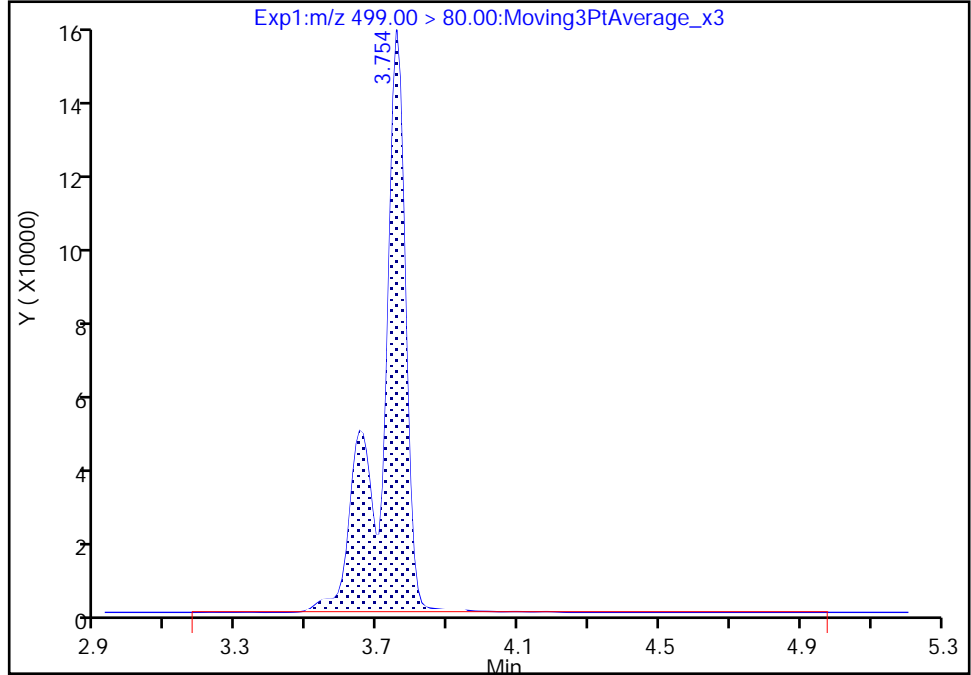
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

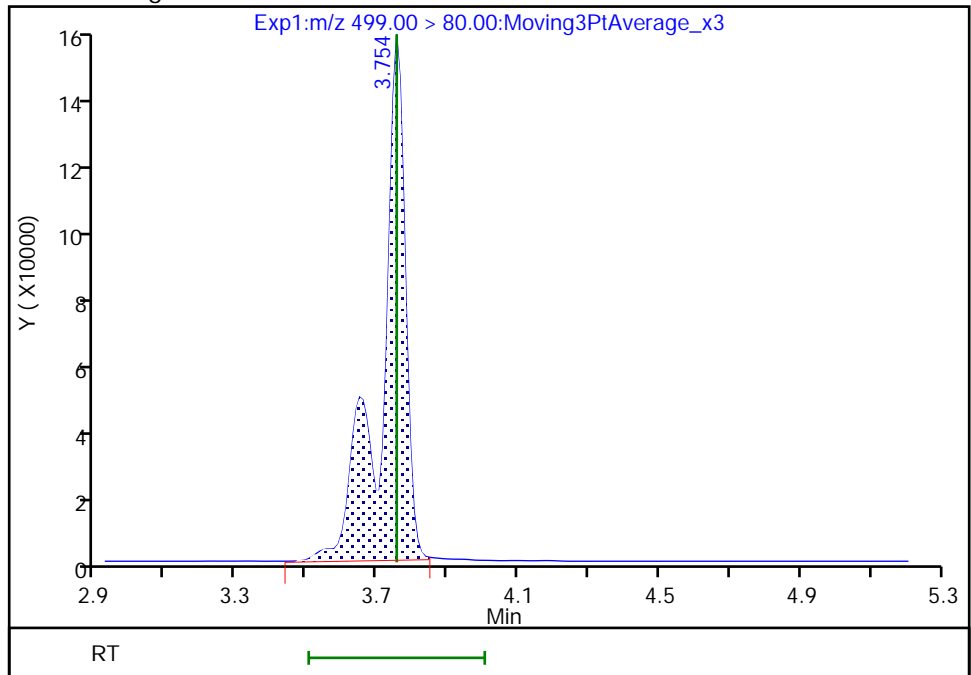
RT: 3.75
Area: 757260
Amount: 0.933521
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 746905
Amount: 0.920756
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

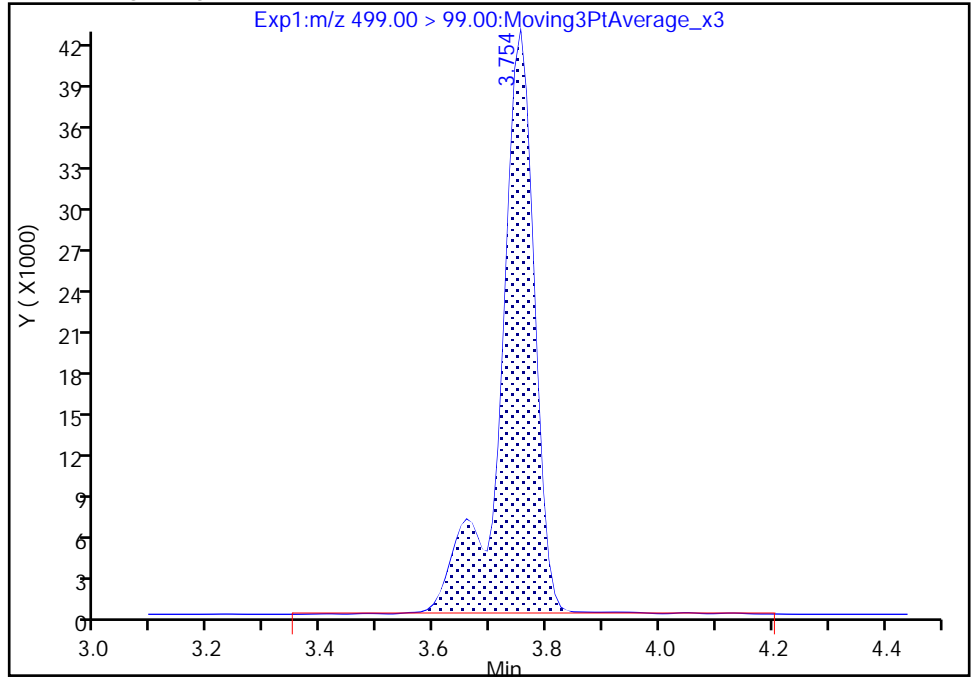
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

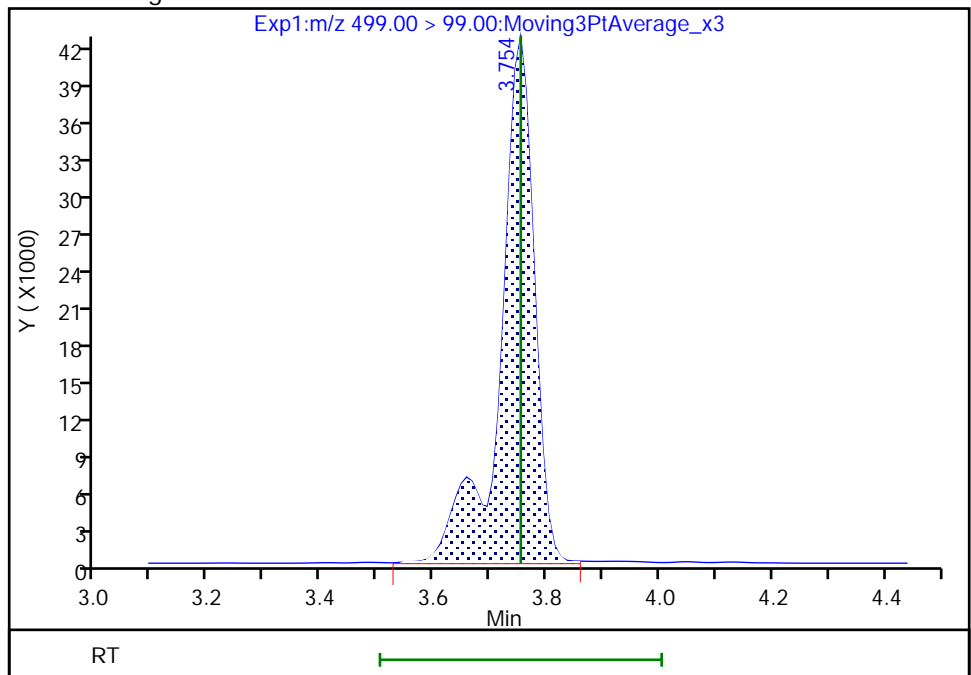
RT: 3.75
Area: 180459
Amount: 0.933521
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 178571
Amount: 0.920756
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

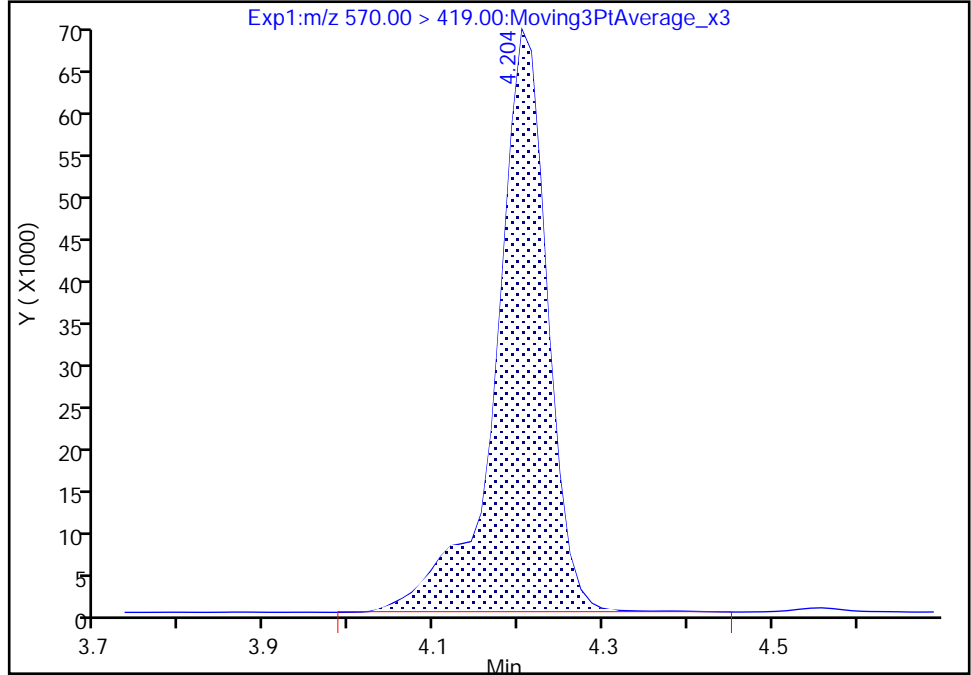
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

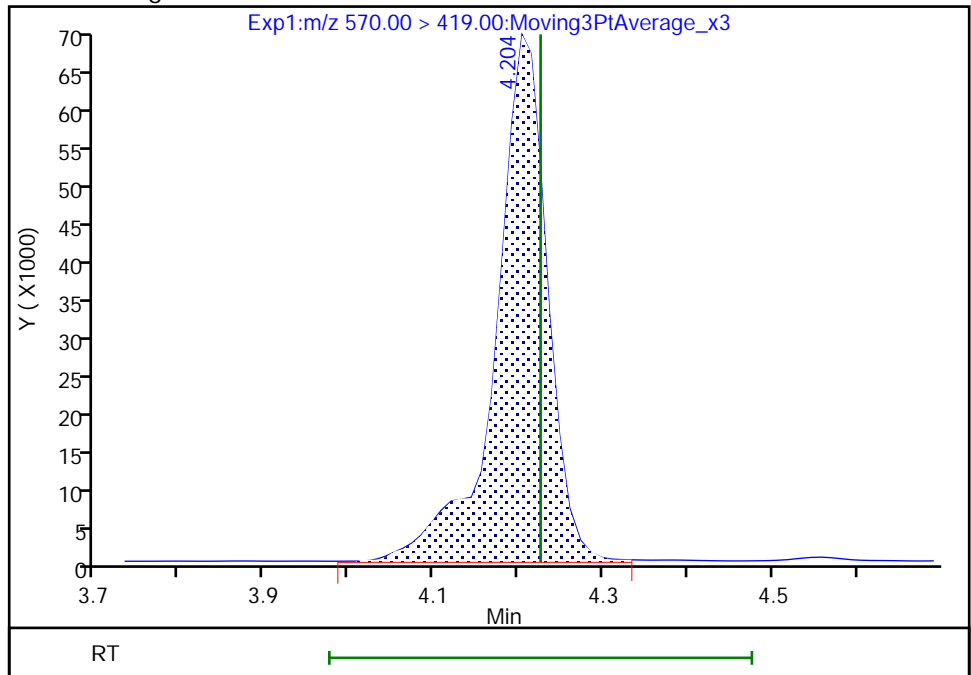
RT: 4.20
Area: 295336
Amount: 1.075247
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 294671
Amount: 1.072826
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

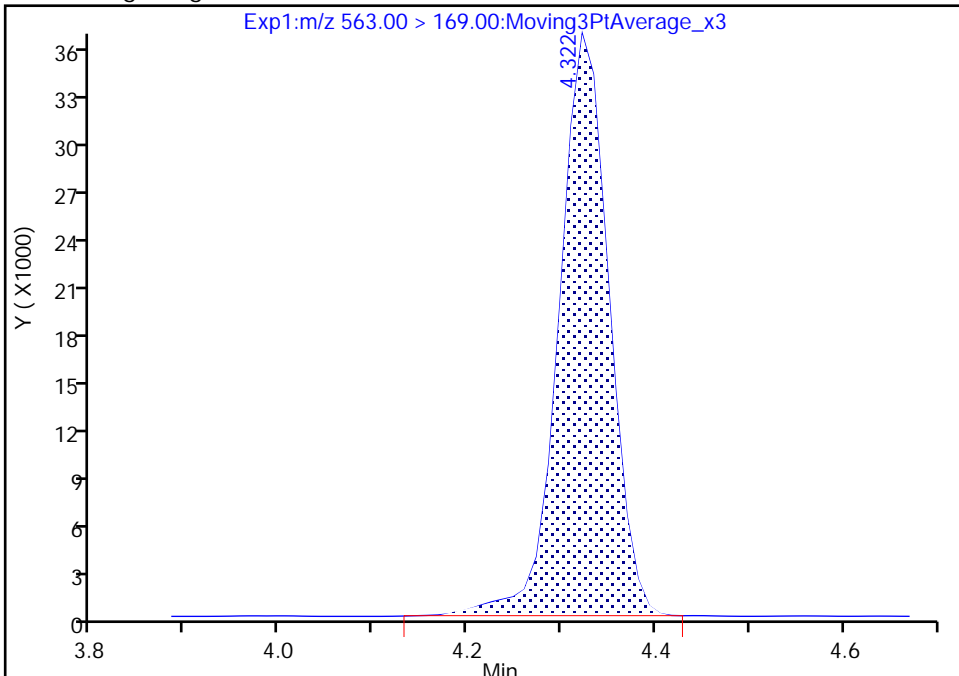
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

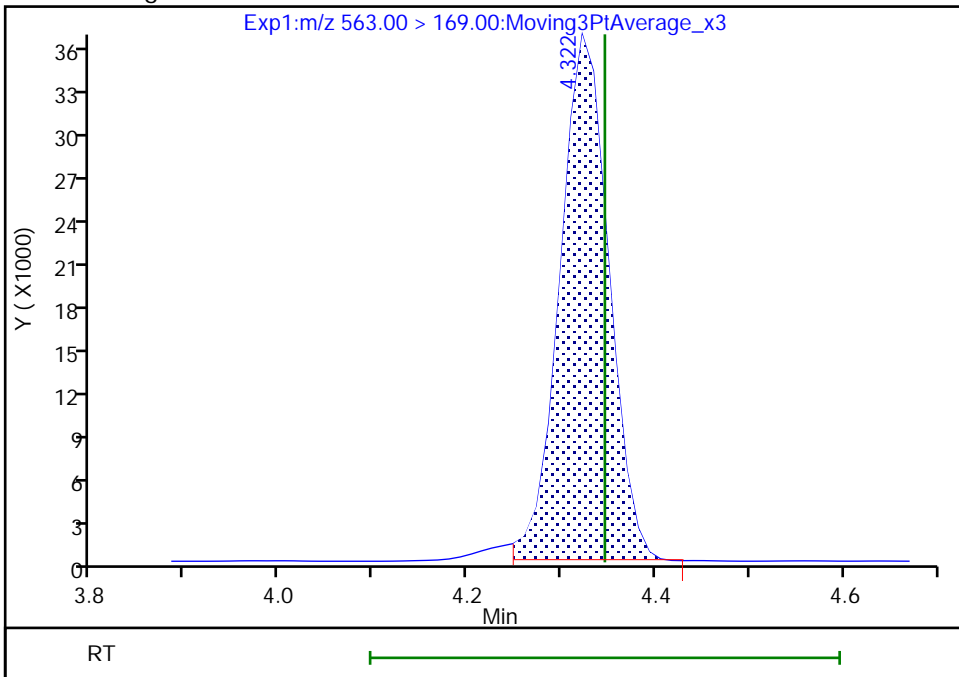
RT: 4.32
Area: 136768
Amount: 0.947932
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 133863
Amount: 0.942590
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

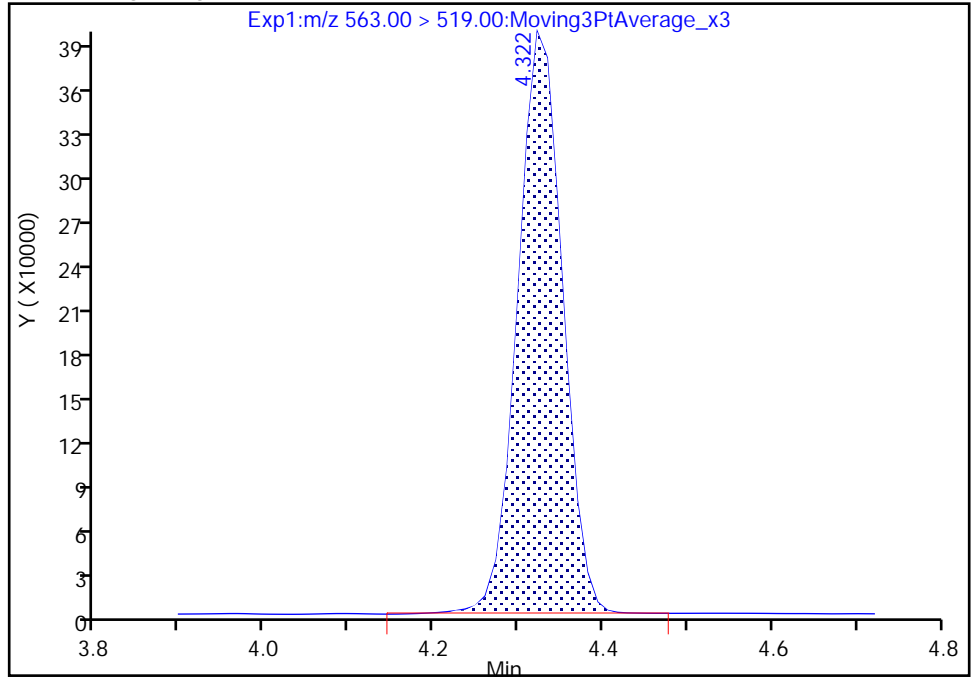
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

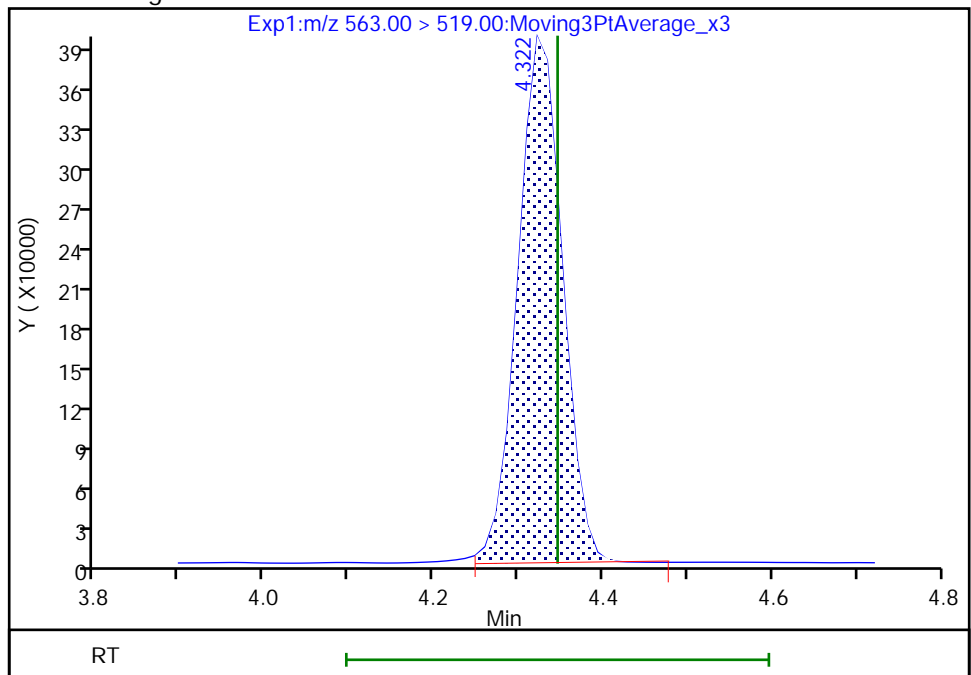
RT: 4.32
Area: 1452171
Amount: 0.947932
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 1443987
Amount: 0.942590
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

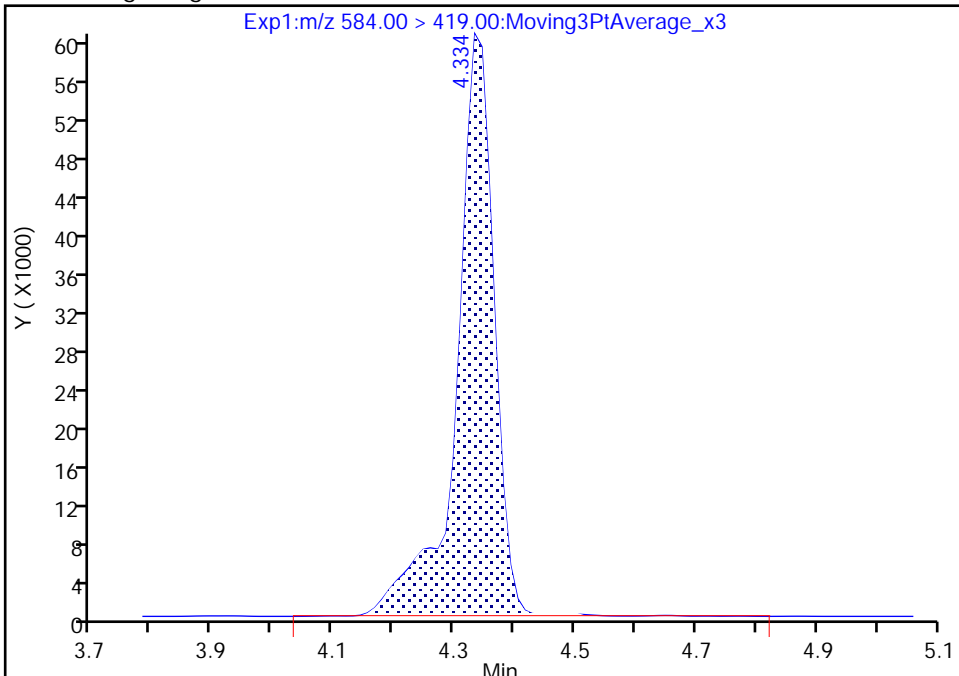
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

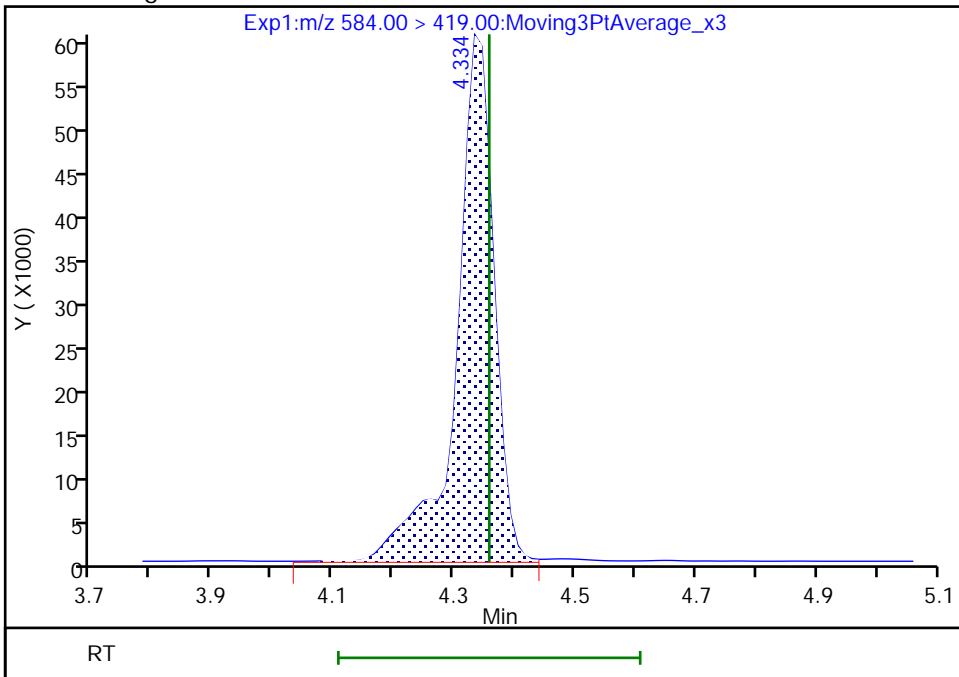
RT: 4.33
Area: 260917
Amount: 0.961464
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 258925
Amount: 0.954123
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

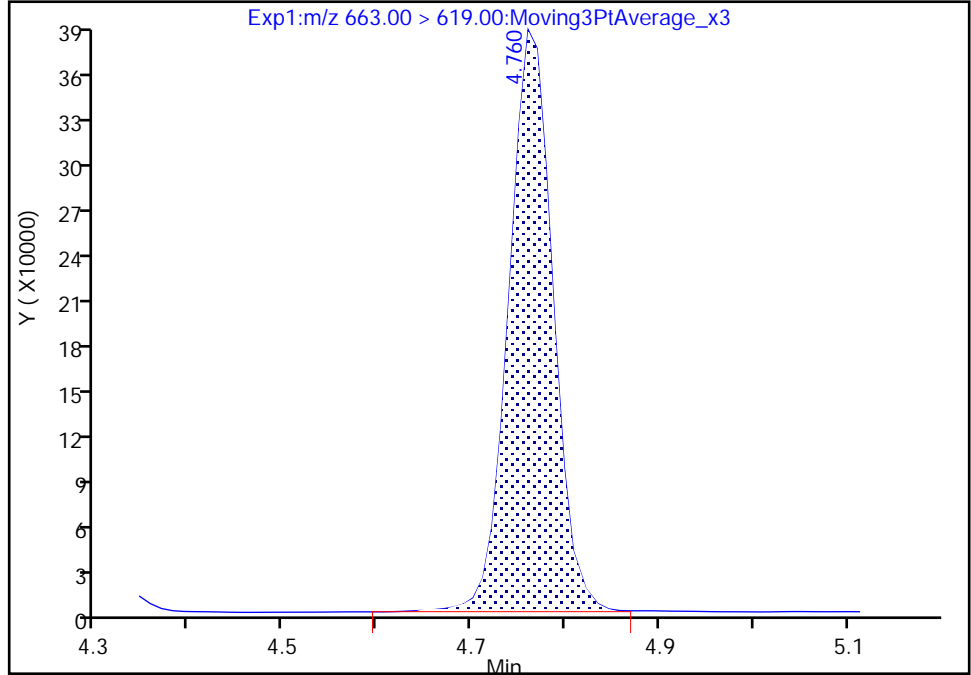
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

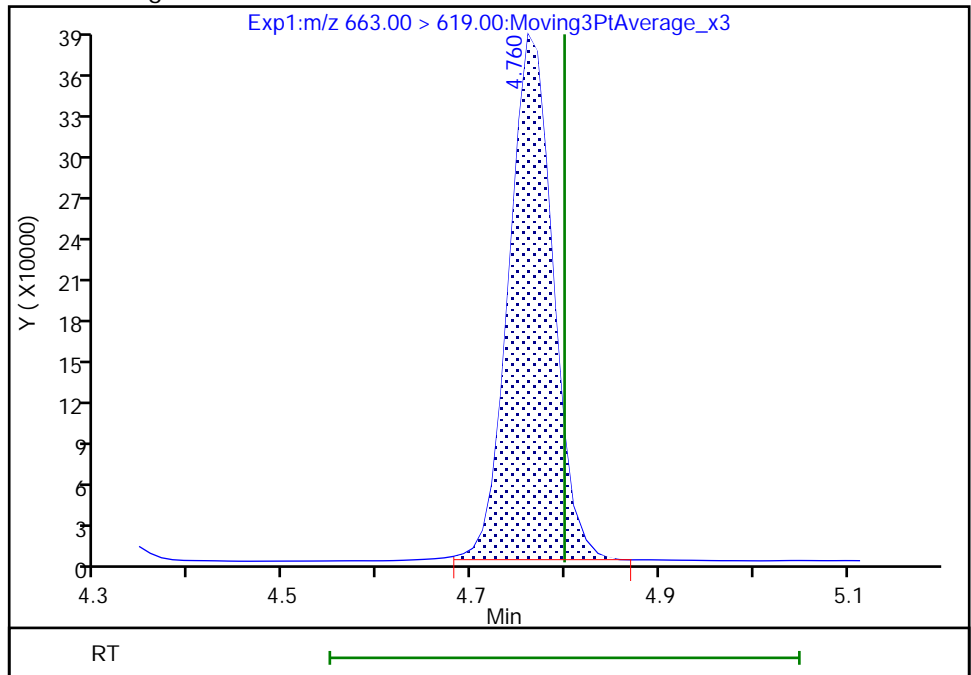
RT: 4.76
Area: 1254248
Amount: 0.881910
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 1249893
Amount: 0.878848
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

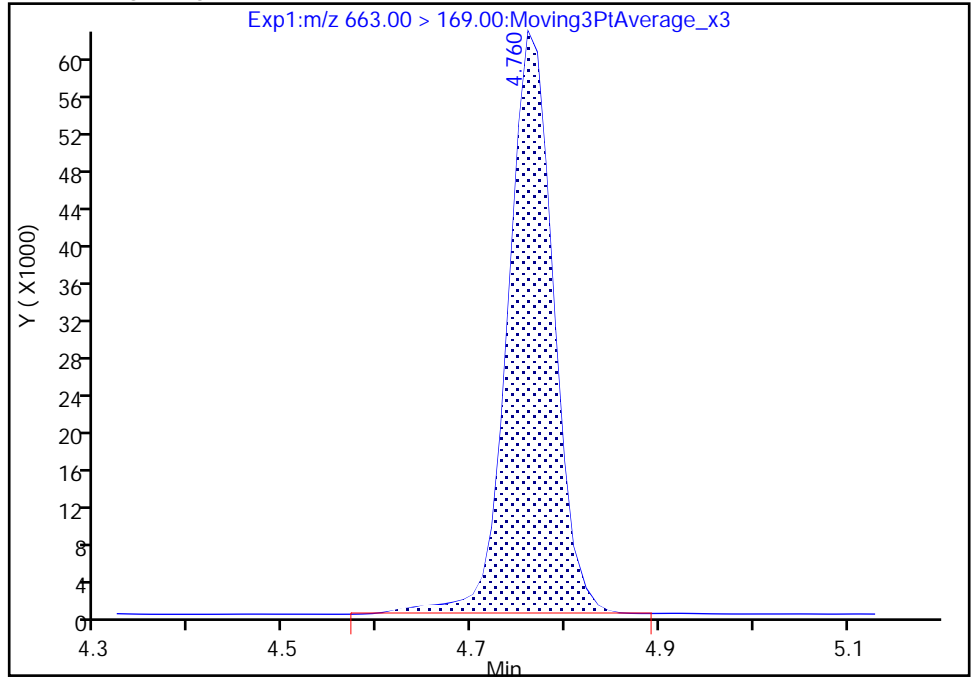
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Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

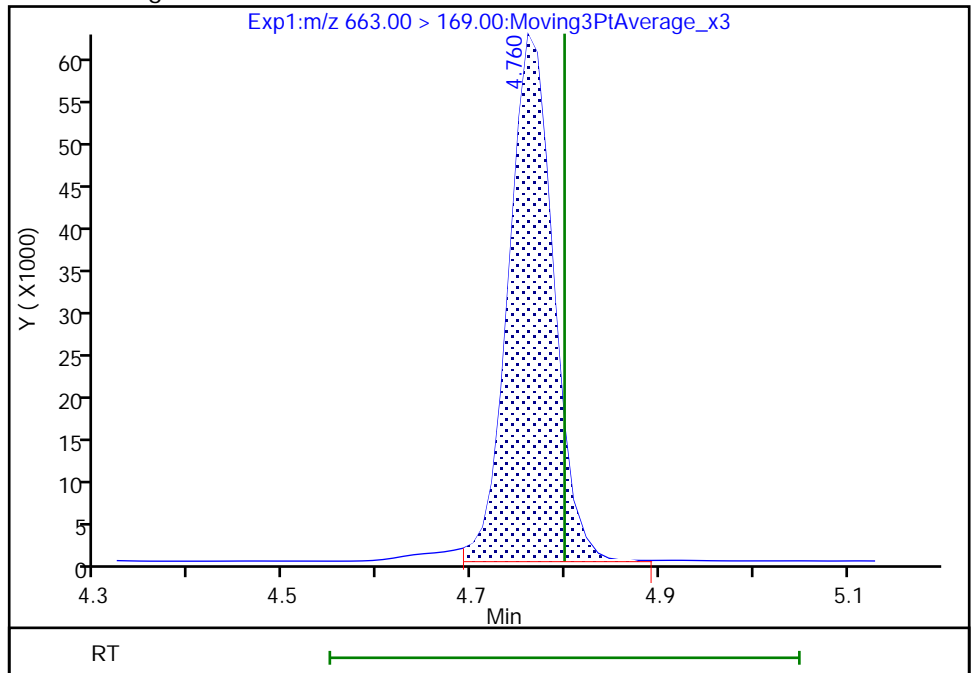
RT: 4.76
Area: 211868
Amount: 0.881910
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 207450
Amount: 0.878848
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

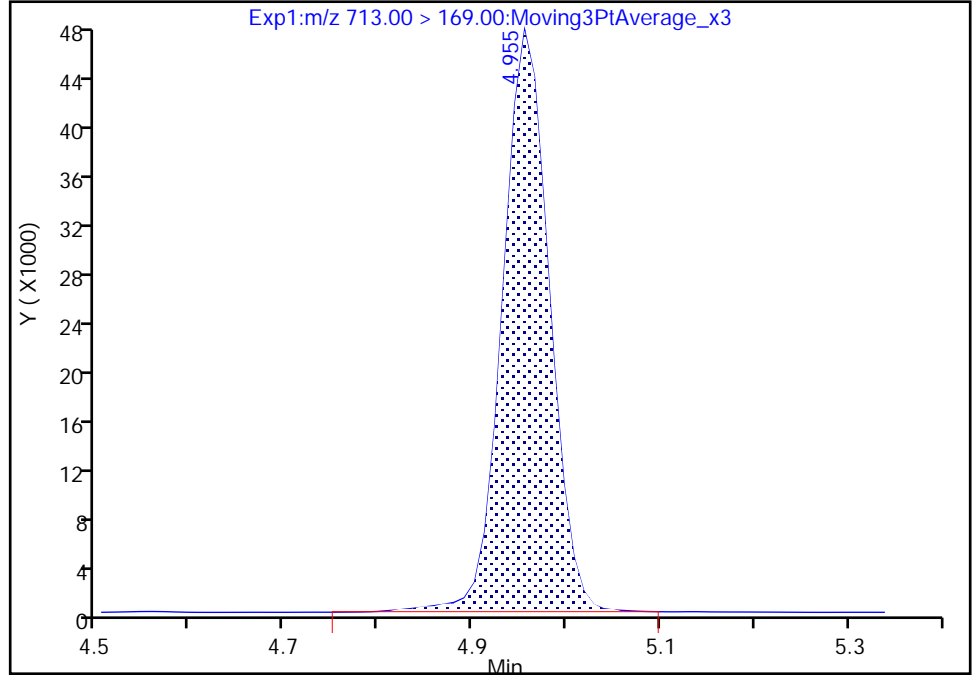
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

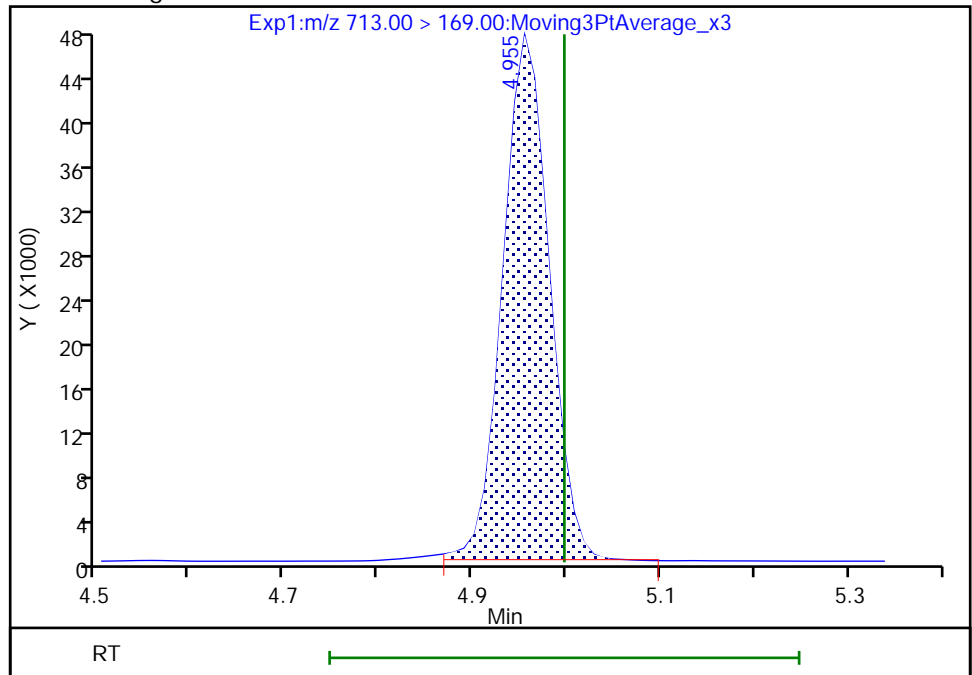
RT: 4.96
Area: 164994
Amount: 1.136170
Amount Units: ng/ml

Processing Integration Results



RT: 4.96
Area: 163657
Amount: 1.126964
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

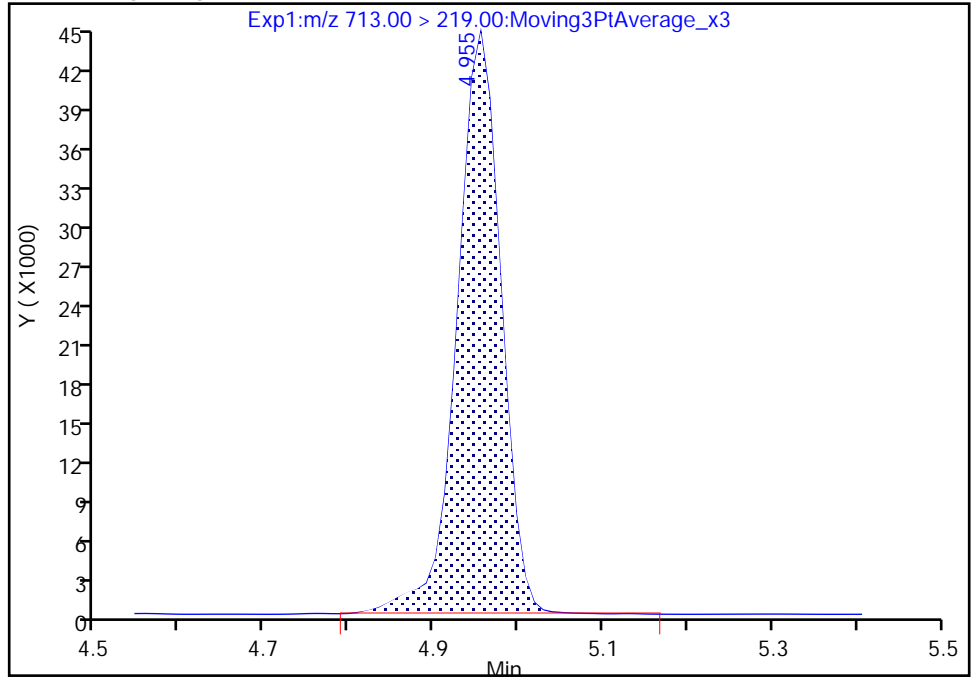
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

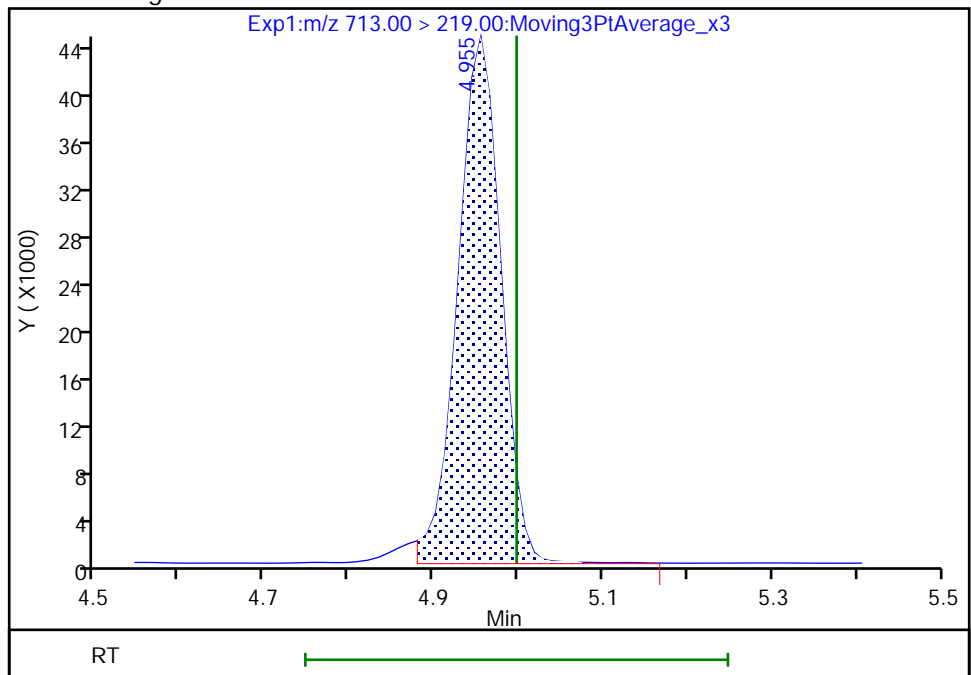
RT: 4.96
Area: 162231
Amount: 1.136170
Amount Units: ng/ml

Processing Integration Results



RT: 4.96
Area: 158305
Amount: 1.126964
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:12:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187884/5 Calibration Date: 01/26/2023 20:19
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.9867		0.0868	0.125	-30.6	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.064		0.0464	0.0500	-7.1	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.084		0.0447	0.0442	1.2	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	2.821		0.0445	0.0467	-4.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.084		0.0514	0.0500	2.8	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.188		0.0450	0.0469	-4.0	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	1.031		0.103	0.100	3.1	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	1.222		0.0574	0.0500	14.8	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.097		0.0455	0.0455	-0.0	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	6.571		0.0540	0.0471	14.6	50.0
6:2 FTS	AveID	2.290	2.282		0.118	0.119	-0.4	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.534		0.0502	0.0476	5.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.251		0.0575	0.0500	14.9	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.412		0.0539	0.0464	16.2	50.0
Perfluorononanoic acid (PFNA)	AveID	1.022	0.9727		0.0476	0.0500	-4.8	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.978		0.0479	0.0466	2.7	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.9394		0.0447	0.0480	-6.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.069	1.016		0.0475	0.0500	-5.0	50.0
8:2 FTS	AveID	1.814	1.871		0.0494	0.0479	3.1	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	1.155		0.0574	0.0500	14.8	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.9596		0.133	0.125	6.4	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7410		0.0475	0.0482	-1.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.069		0.0490	0.0500	-2.0	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.8179		0.110	0.125	-12.0	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	5.724		0.0601	0.0471	27.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.018	1.179		0.0579	0.0500	15.8	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.077		0.0452	0.0482	-6.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.3357		0.0532	0.0484	9.9	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187884/5 Calibration Date: 01/26/2023 20:19
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	1.130		0.0555	0.0500	11.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1186		0.0475	0.0500	-5.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.219		0.0510	0.0500	2.0	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.8081		0.0500	0.0500	-0.0	50.0
13C4 PFBA	Ave	1.150	1.060		1.15	1.25	-7.8	
13C5 PFPeA	Ave	0.9294	0.8928		1.20	1.25	-3.9	
13C3 PFBS	Ave	1.020	0.8202		0.935	1.16	-19.6	
M2-4:2 FTS	Ave	0.0825	0.0752		1.06	1.17	-8.9	
13C2 PFHxA	Ave	0.9657	1.023		1.32	1.25	5.9	
13C3 HFPO-DA	Ave	0.1673	0.1397		1.04	1.25	-16.5	
13C4 PFHpA	Ave	0.9669	0.8334		1.08	1.25	-13.8	
18O2 PFHxS	Ave	0.7424	0.6202		0.988	1.18	-16.5	
M2-6:2 FTS	Ave	0.1170	0.1014		1.03	1.19	-13.3	
13C4 PFOA	Ave	1.024	1.005		1.23	1.25	-1.9	
13C4 PFOS	Ave	0.4514	0.3753		0.994	1.20	-16.8	
13C5 PFNA	Ave	0.998	1.016		1.27	1.25	1.8	
13C2 PFDA	Ave	1.024	0.998		1.22	1.25	-2.5	
M2-8:2 FTS	Ave	0.1466	0.1367		1.12	1.20	-6.8	
13C8 FOSA	Ave	0.8320	0.6823		1.03	1.25	-18.0	
d3-NMeFOSAA	Ave	0.2013	0.2042		1.27	1.25	1.5	
13C2 PFUnA	Ave	0.8836	0.8492		1.20	1.25	-3.9	
d5-NEtFOSAA	Ave	0.1934	0.2298		1.49	1.25	18.8	
13C2 PFDoA	Ave	0.8860	0.8177		1.15	1.25	-7.7	
13C2 PFTeDA	Ave	0.7620	0.8056		1.32	1.25	5.7	
13C2 PFHxDA	Ave	0.9339	0.8500		1.14	1.25	-9.0	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 26-Jan-2023 20:19:10 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0054135-005 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620
 First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:17:13
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.076	2.094	-0.018	0.603	1900194	1.15	92.2	21357	
2 Perfluorobutanoic acid	212.90 > 169.00	2.085	2.094	-0.009	1.004	187498	0.0868	69.4	21.9	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1599719	1.20	96.1	9237	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	68064	0.0464	92.9	2.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.410	2.384	0.026	0.700	1366787	0.9345	80.4	262603	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.410	2.384	0.026	1.000	56323	0.0447	Target=2.10	101	174
	298.90 > 99.00	2.410	2.384	0.026	1.000	25634		2.20(1.05-3.15)	33.3	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.000	14194	0.0445	95.3	142	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	125784	1.06	91.1	254	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1832466	1.32	106	7014	
6 Perfluorohexanoic acid	313.00 > 269.00	2.730	2.706	0.024	1.000	79420	0.0514	Target=13.16	103	21.9
	313.00 > 119.00	2.730	2.706	0.024	1.000	6149		12.92(6.58-19.74)	18.2	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.883	49534	0.0450	Target=2.90	96.0	175
	349.00 > 99.00	2.730	2.706	0.024	0.883	19083		2.60(1.45-4.35)	87.5	M
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	20650	0.1031	103	344	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	250388	1.04		83.5	4497	
D 11 18O2 PFHxS										
403.00 > 84.00	3.091	3.069	0.022	0.898	1051316	0.9879		83.5	3874	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.091	3.069	0.022	1.000	44393	0.0455	Target=3.18	100.0	195	M
399.00 > 99.00	3.080	3.069	0.011	0.996	14561		3.05(1.59-4.77)		49.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1493357	1.08		86.2	4458	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	73023	0.0574	Target=4.10	115	20.5	
363.00 > 169.00	3.091	3.069	0.022	1.000	17239		4.24(2.05-6.16)		80.9	
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.833	166510	0.0540	Target=2.96	115	199	
377.00 > 85.00	3.126	3.104	0.022	0.833	54970		3.03(1.48-4.44)		216	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	172669	1.03		86.7	1055	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	39313	0.1181		99.6	87.1	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.915	39288	0.0502	Target=4.59	105	331	
449.00 > 99.00	3.434	3.417	0.017	0.915	8935		4.40(2.30-6.89)		116	
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1801277	1.23		98.1	8511	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1791794	1.25			6231	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	90132	0.0575	Target=2.71	115	9.5	M
413.00 > 169.00	3.443	3.426	0.017	1.000	28893		3.12(1.36-4.07)		103	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	642937	0.99		83.2	5903	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.003	35243	0.0539	Target=4.23	116	53.8	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	7426		4.75(2.11-6.34)		40.0	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	70798	0.0476	Target=8.78	95.2	14.3	
463.00 > 169.00	3.773	3.774	-0.001	1.000	8643		8.19(4.39-13.17)		172	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1819567	1.27		102	8720	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.045	74669	0.0479		103	370	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	24261	0.0447	Target=2.37	93.1	234	
549.00 > 99.00	4.052	4.043	0.009	1.080	11082		2.19(1.18-3.55)		135	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1788789	1.22		97.5	6459	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	72677	0.0475	Target=11.13	95.0	27.8	
513.00 > 169.00	4.084	4.074	0.010	1.003	6811		10.67(5.56-16.69)		71.4	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	234573	1.12		93.2	2049	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	17553	0.0494		103	255	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	56480	0.0574		115	357	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1222518	1.03		82.0	5467	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	365971	1.27		101	1146	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	35118	0.1330		106	107	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.152	19215	0.0475	Target=2.45	98.5	337	
599.00 > 99.00	4.322	4.322	0.0	1.152	9220		2.08(1.23-3.68)		169	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1521550	1.20		96.1	9167	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	65085	0.0490	Target=10.33	98.0	23.2	
563.00 > 169.00	4.346	4.346	0.0	1.000	4563		14.26(5.17-15.50)		50.3	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.357	4.358	-0.001	1.000	33675	0.1100		88.0	285	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	411731	1.49		119	889	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.451	4.452	-0.001	1.186	145044	0.0601		128	586	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	69073	0.0579	Target=8.10	116	9.6	M
613.00 > 169.00	4.583	4.584	-0.001	1.000	7747		8.92(4.05-12.15)		118	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1465220	1.15		92.3	5244	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	10164	0.0452		93.9	258	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.271	8741	0.0532	Target=0.51	110	263	M
699.00 > 99.00	4.769	4.770	-0.001	1.271	14393		0.61(0.26-0.77)		268	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.049	66208	0.0555	Target=6.06	111	9.3	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	10245		6.46(3.03-9.09)		94.3	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	6846	0.0475	Target=0.83	95.0	104	
713.00 > 219.00	5.004	4.998	0.006	1.000	8266		0.83(0.42-1.25)		126	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1443554	1.32		106	7402	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.371	5.362	0.009	1.002	74259	0.0510	Target=6.74	102	11.6	M
813.00 > 169.00	5.371	5.362	0.009	1.002	10493		7.08(3.37-10.11)		158	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1522972	1.14		91.0	6426	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.719	5.711	0.008	1.067	49228	0.0500	Target=6.99	99.9	9.4	M
913.00 > 169.00	5.719	5.711	0.008	1.067	6332		7.77(3.50-10.49)		186	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00024

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d

Injection Date: 26-Jan-2023 20:19:10

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: LC812user

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

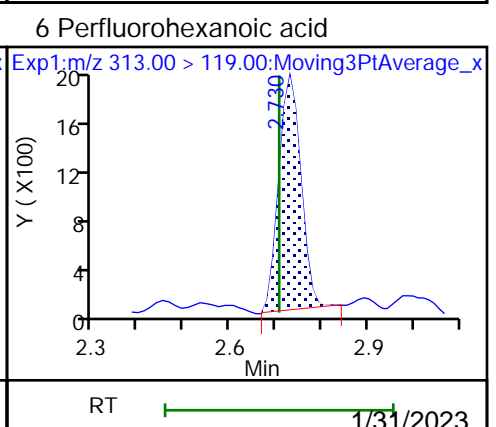
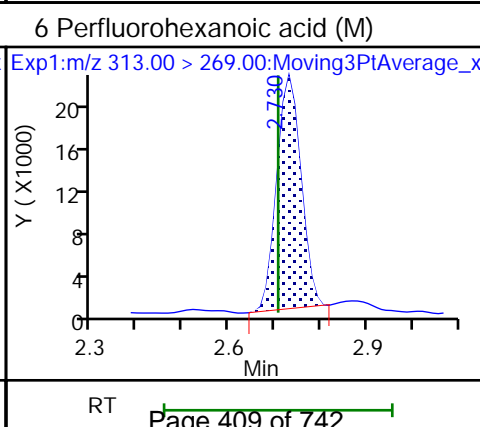
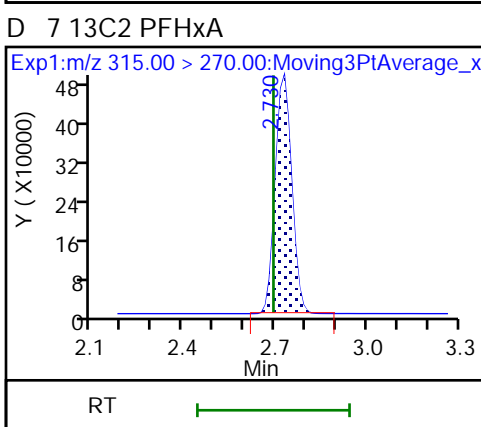
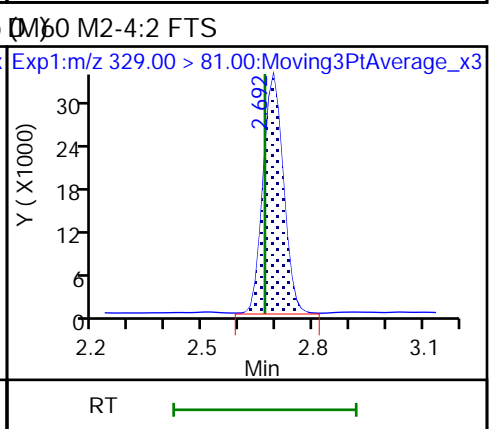
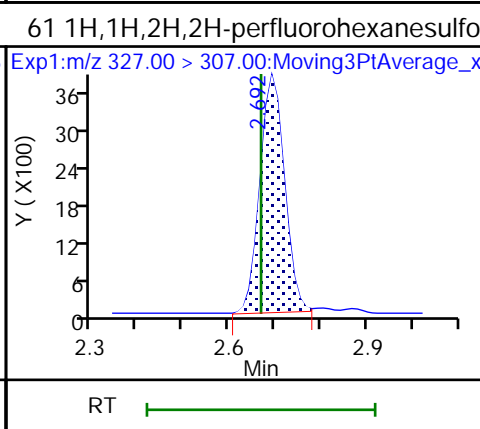
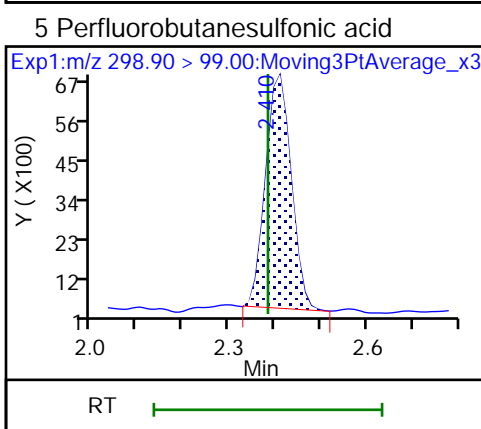
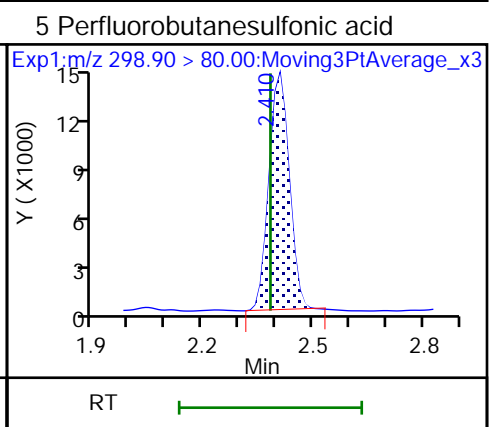
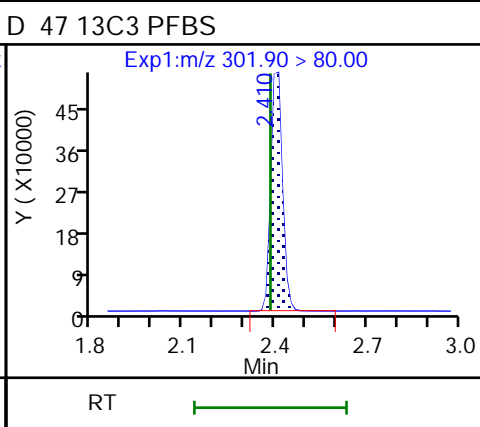
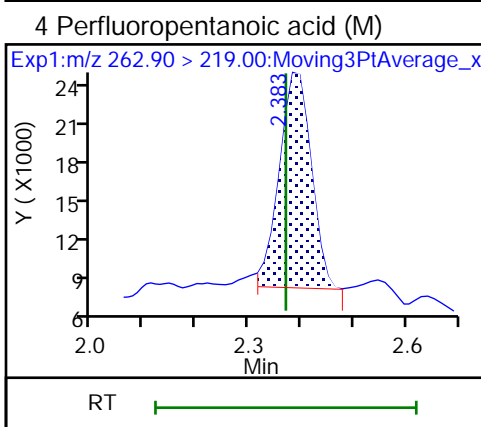
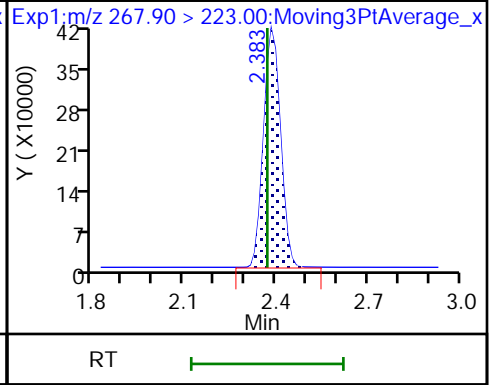
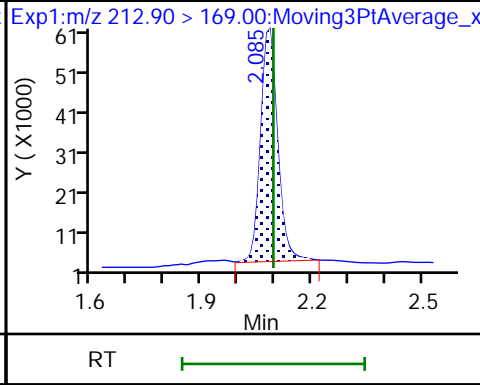
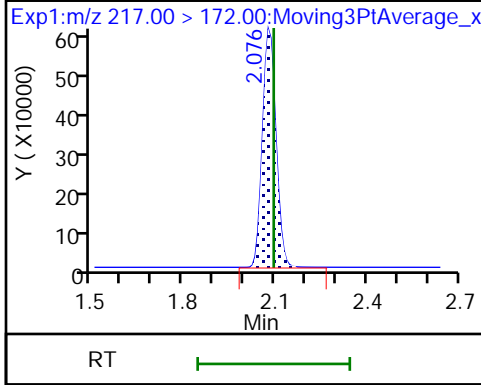
Method: PFC_LC812

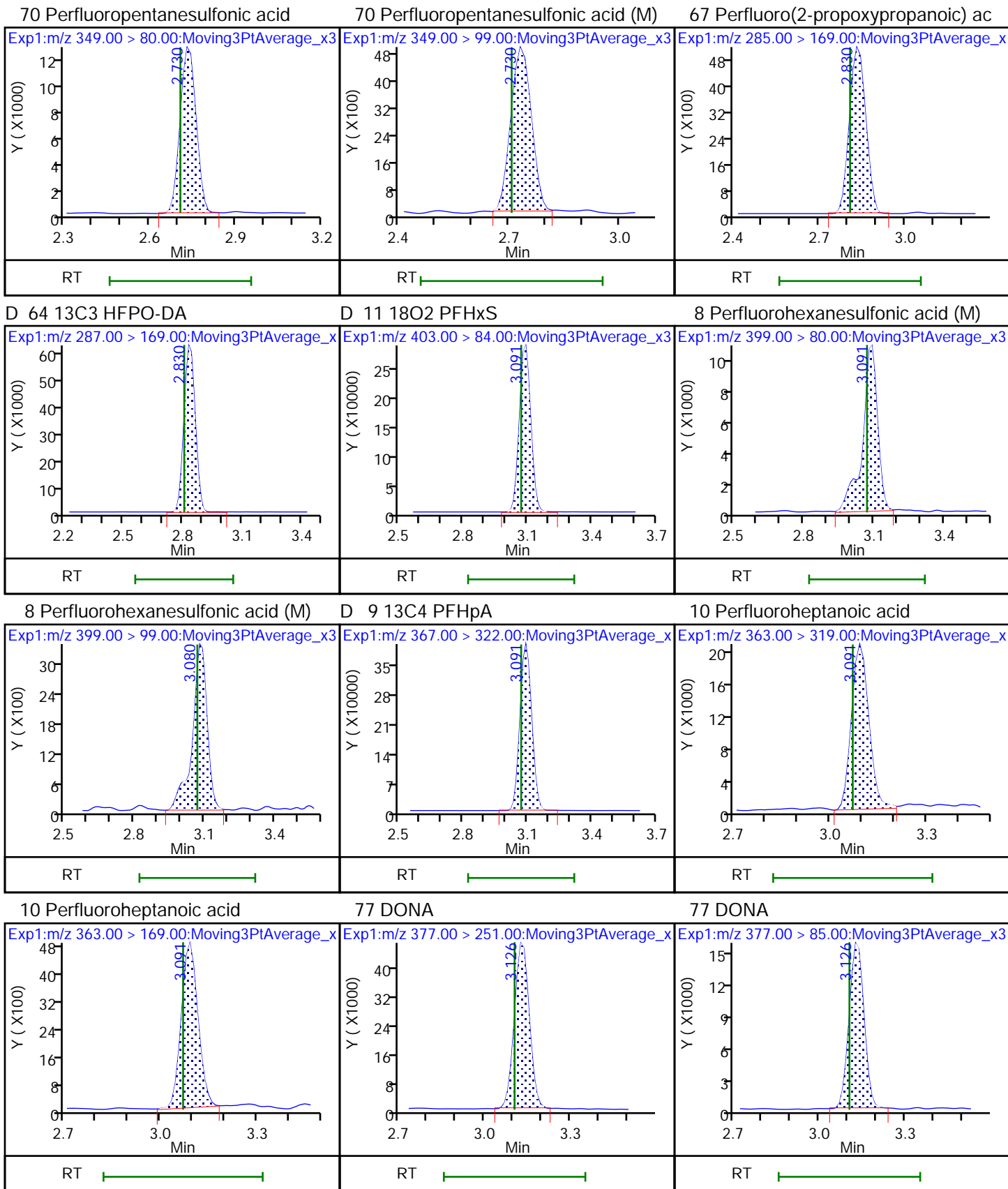
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

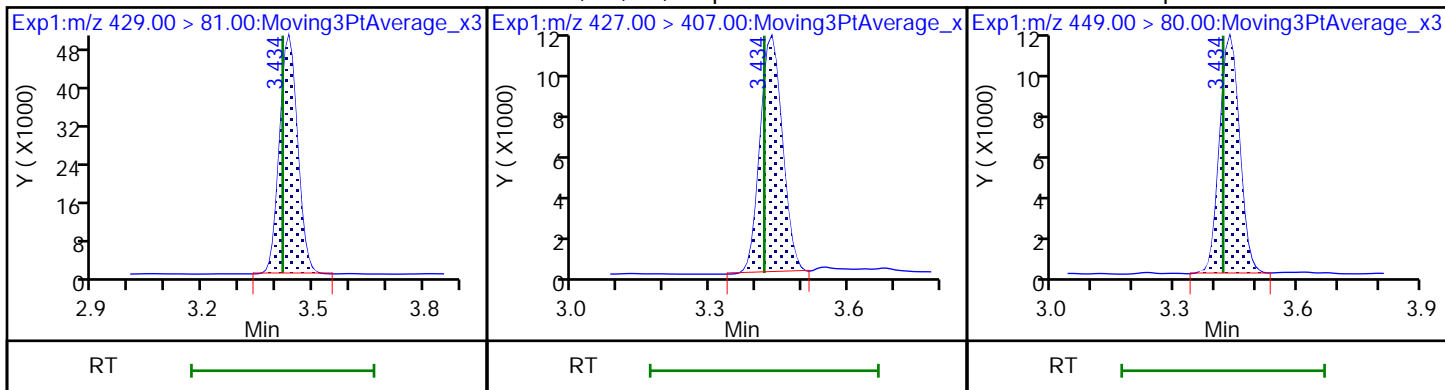




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

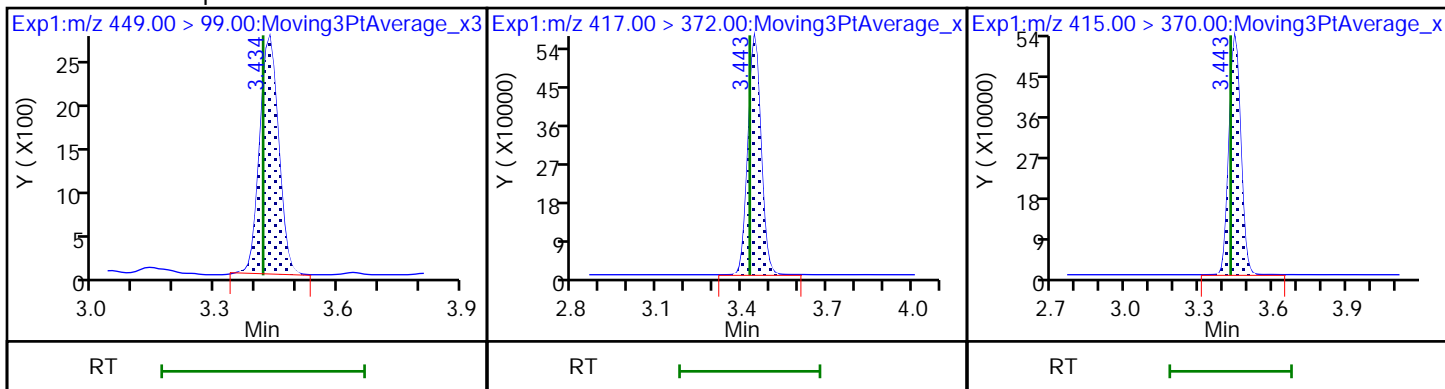
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

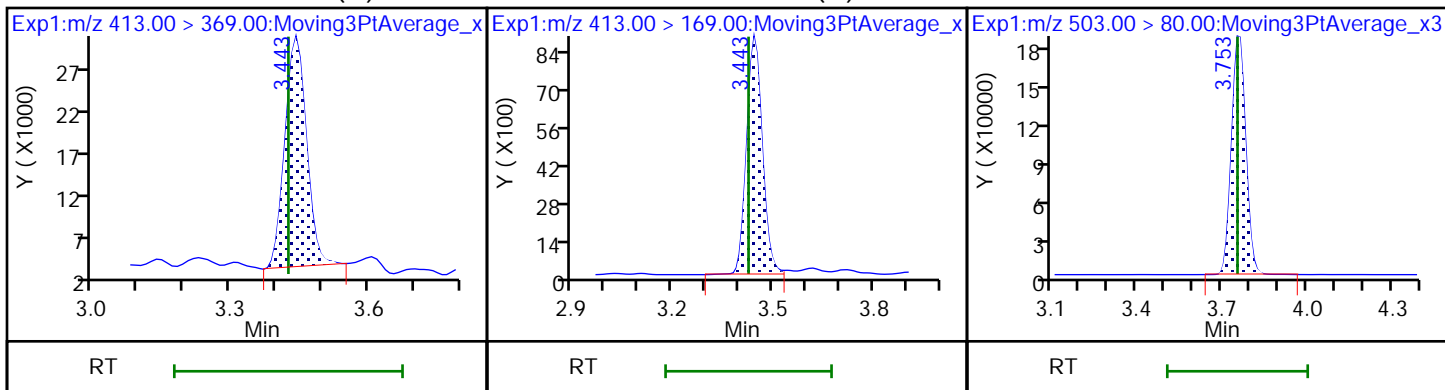
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

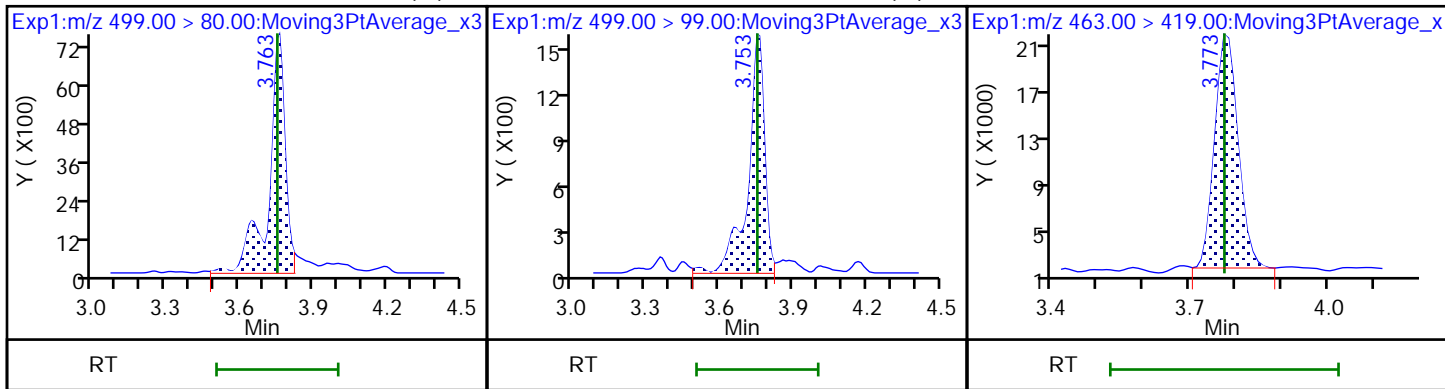
D 18 13C4 PFOS

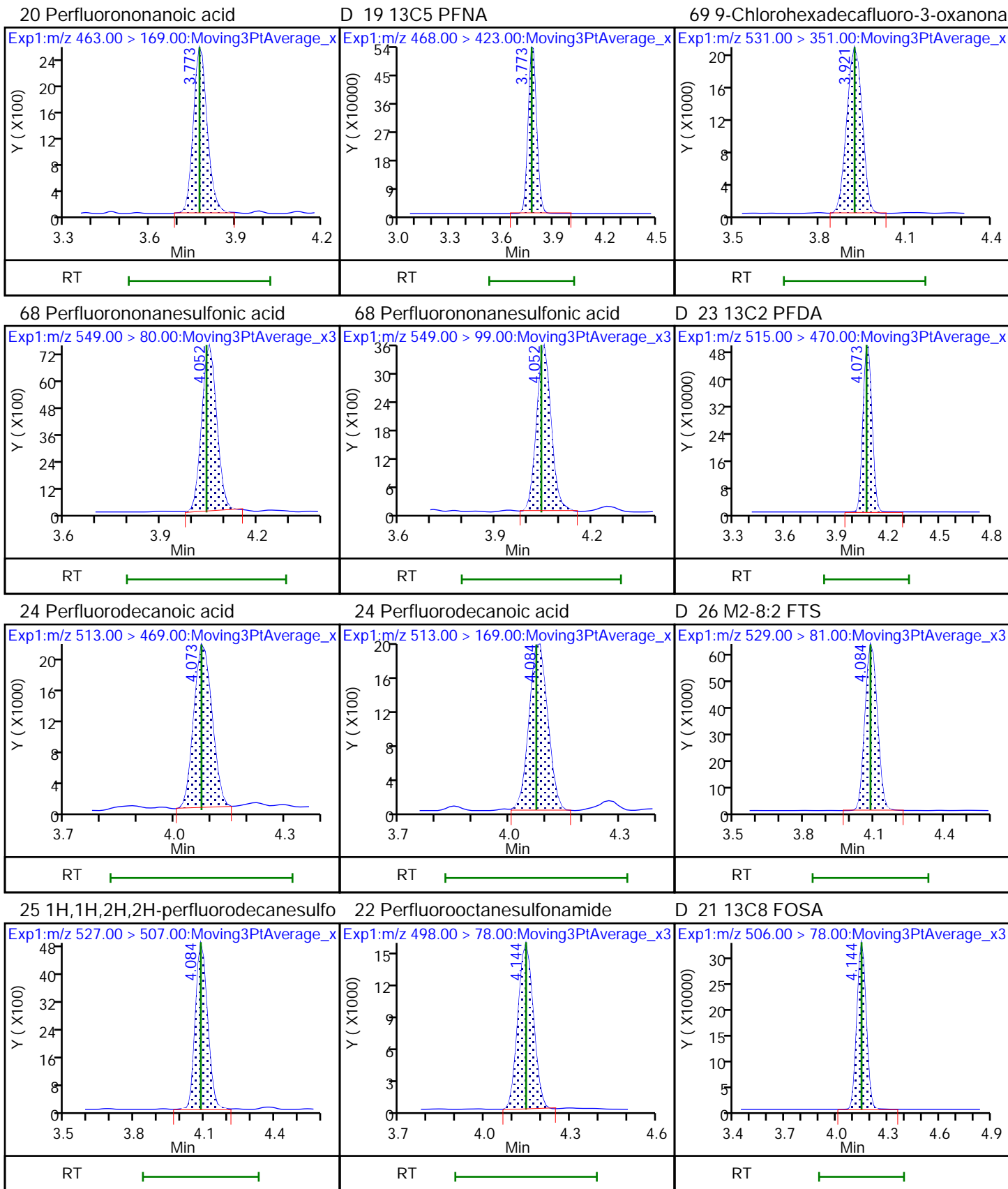


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

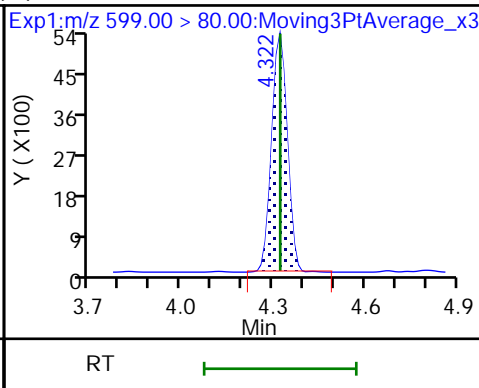
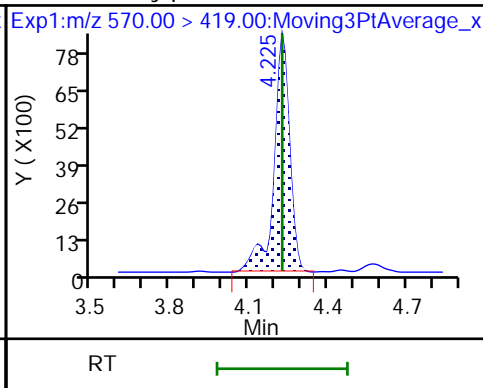
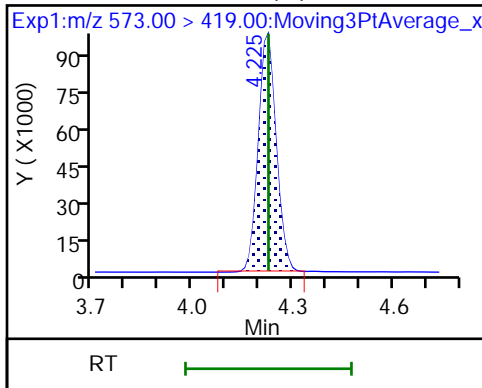




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

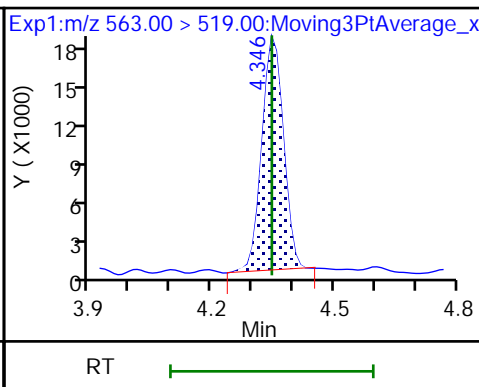
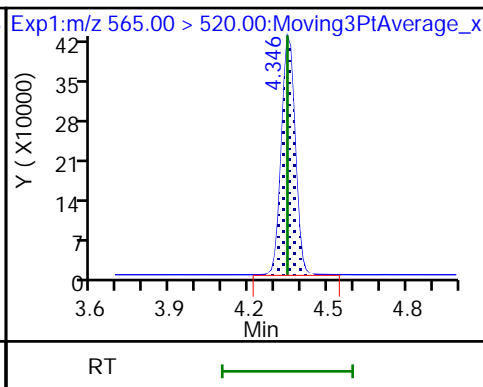
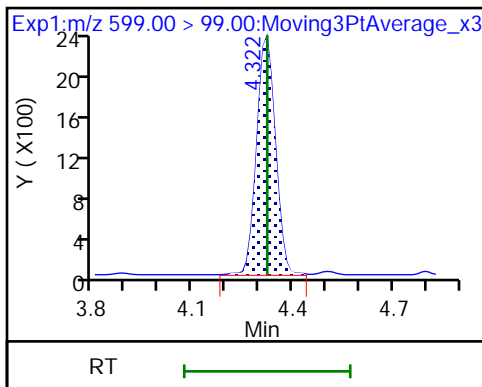
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

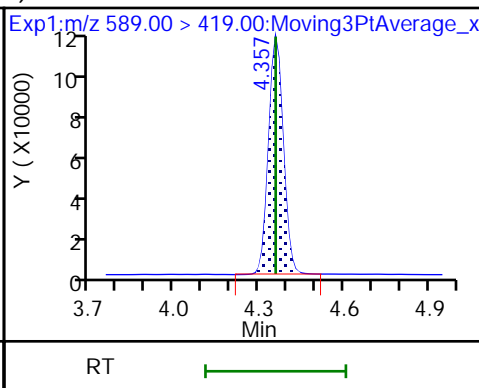
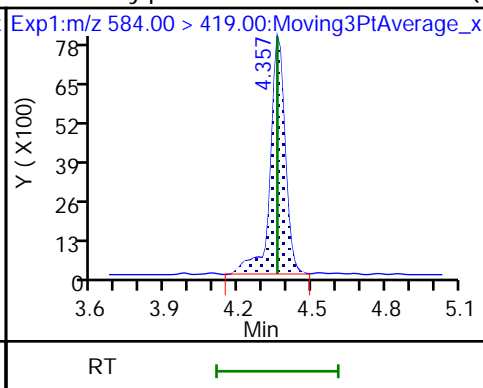
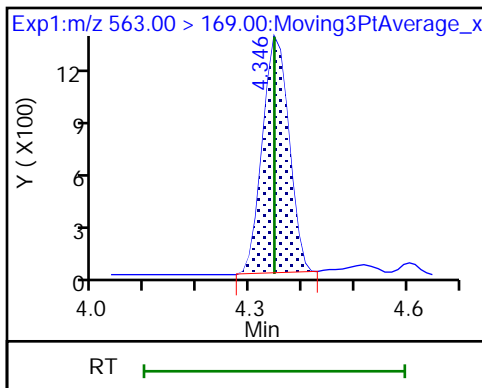
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

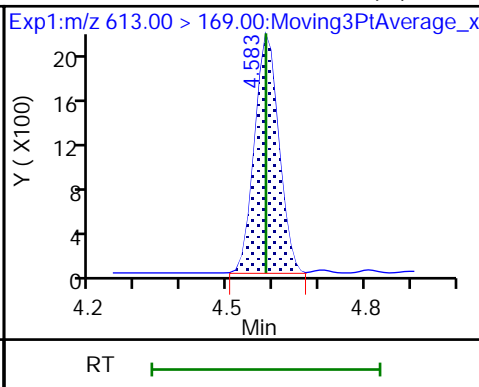
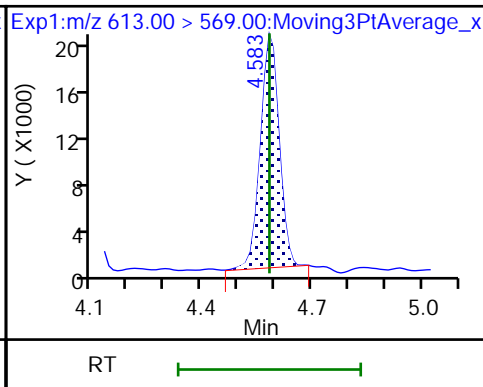
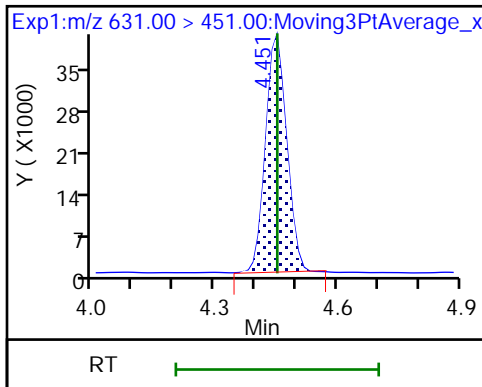
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

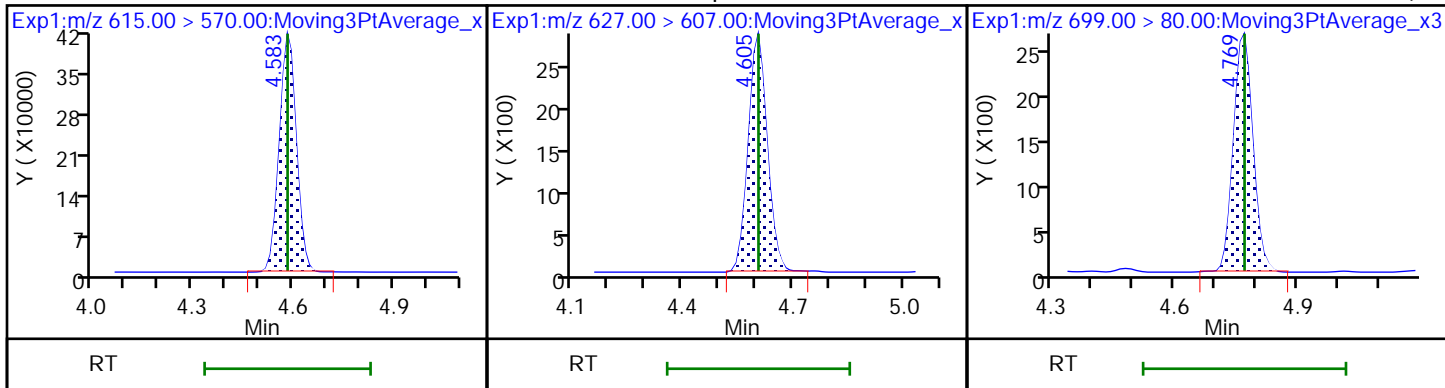
37 Perfluorododecanoic acid (M)



D 36 13C2 PFD0A

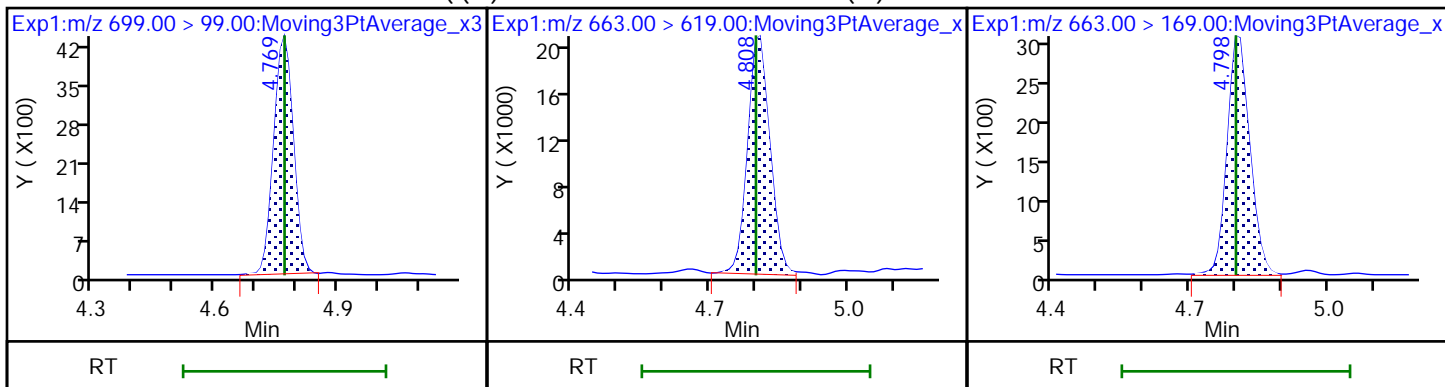
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

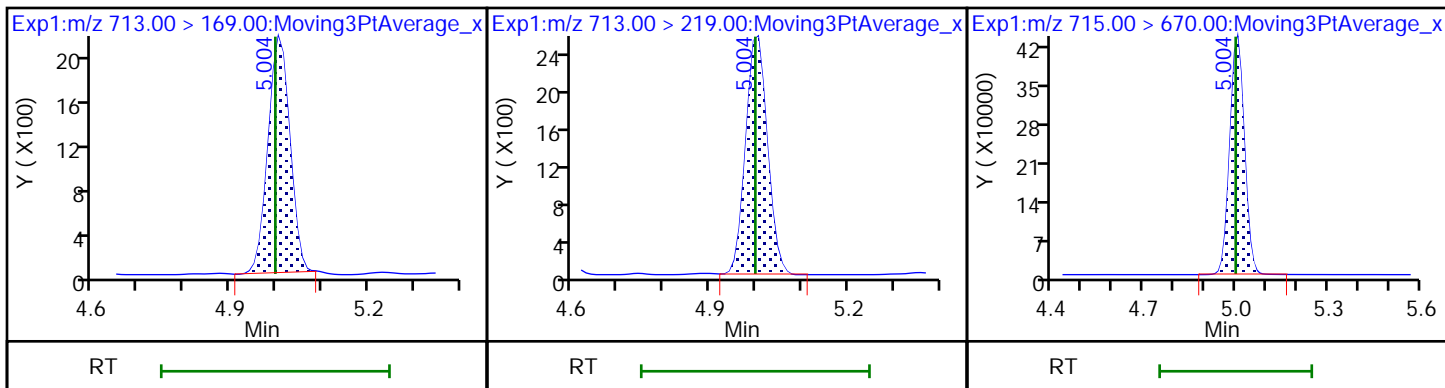
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

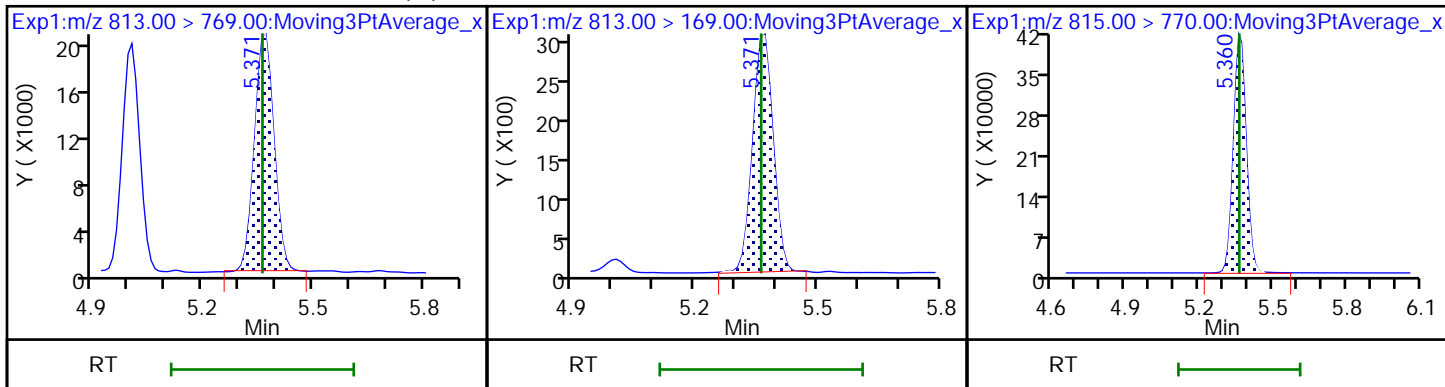
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

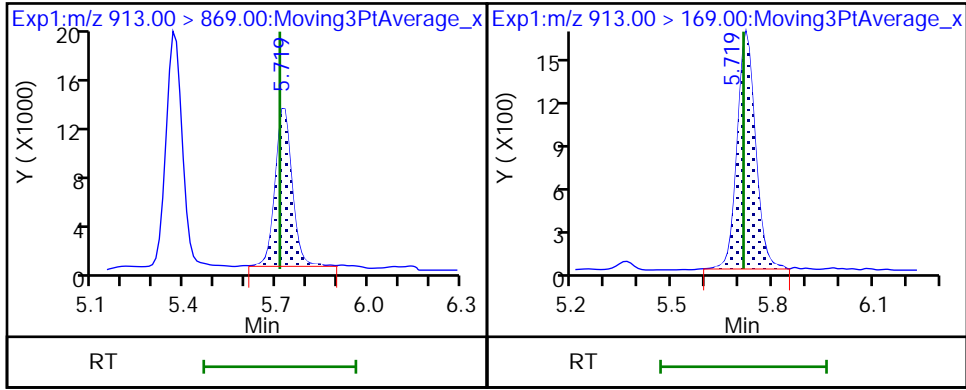
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

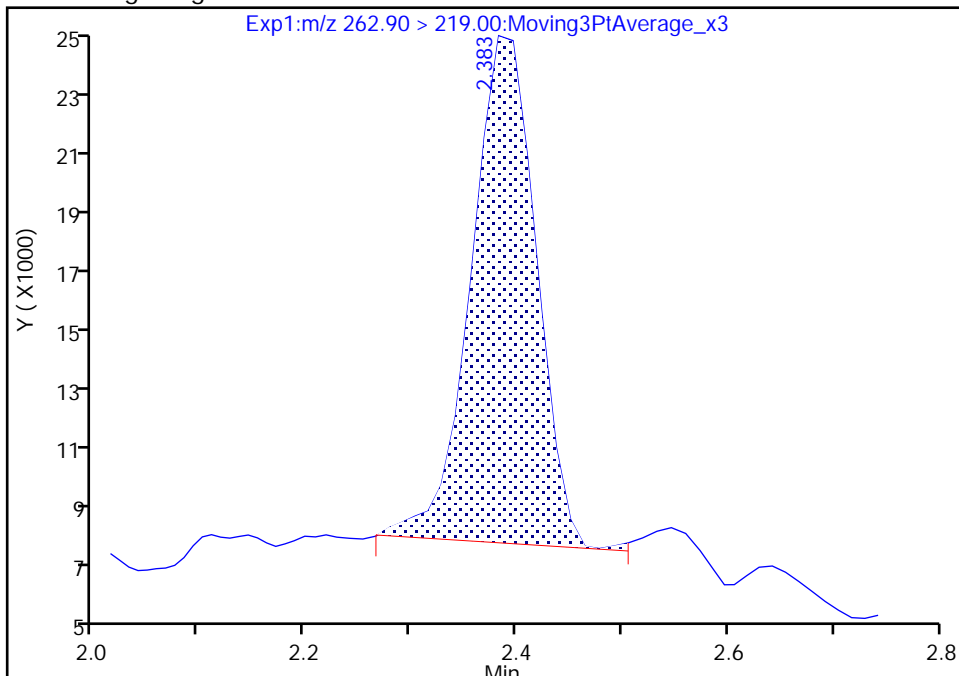
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Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

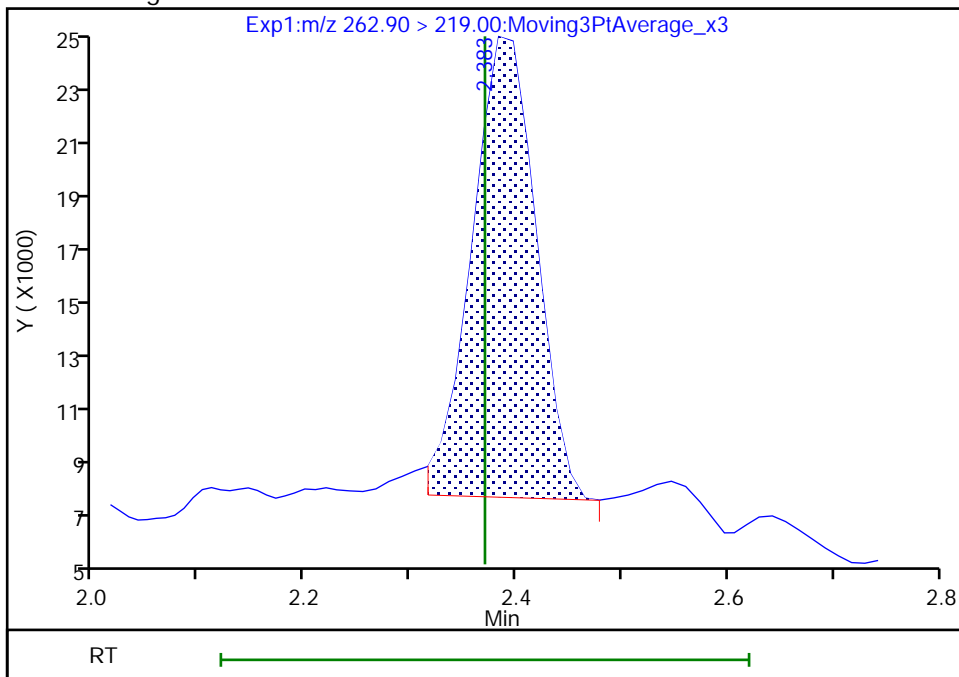
RT: 2.38
Area: 69351
Amount: 0.047317
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 68064
Amount: 0.046438
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:13:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

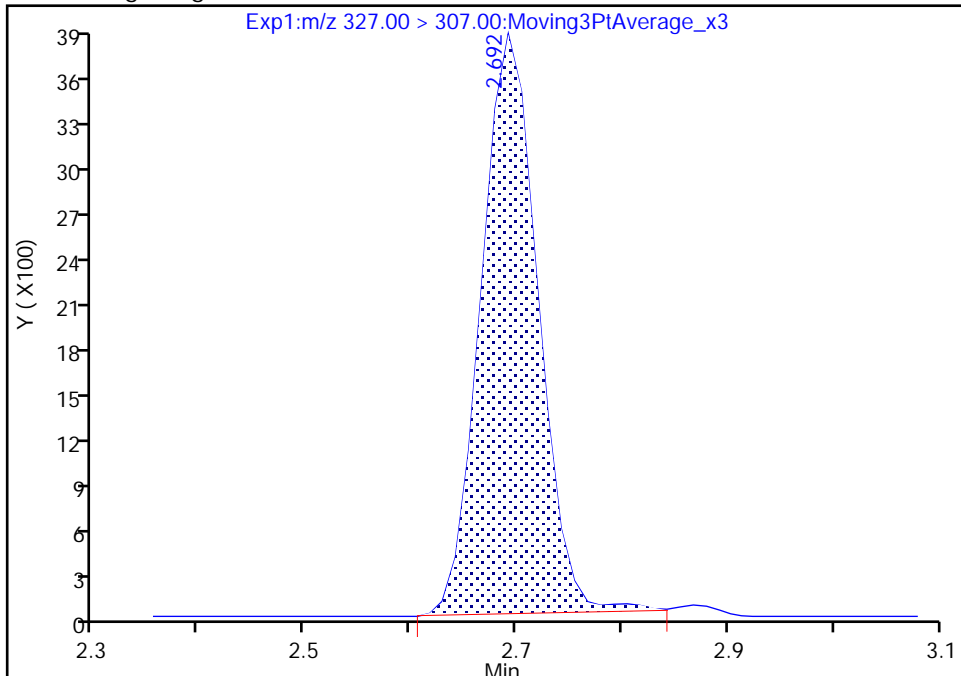
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

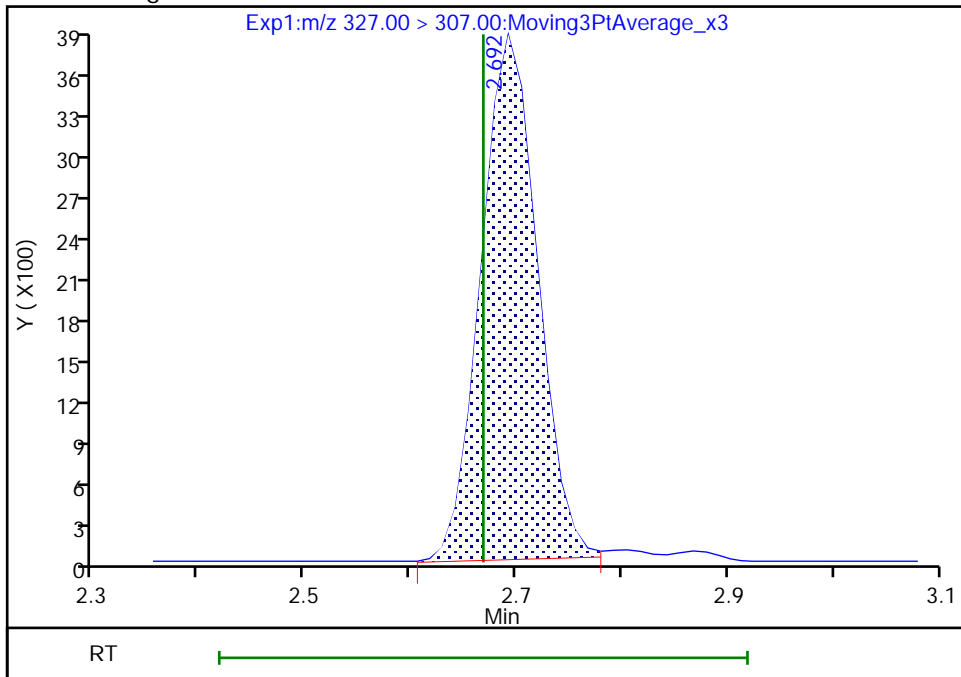
RT: 2.69
Area: 14298
Amount: 0.044845
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 14194
Amount: 0.044519
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

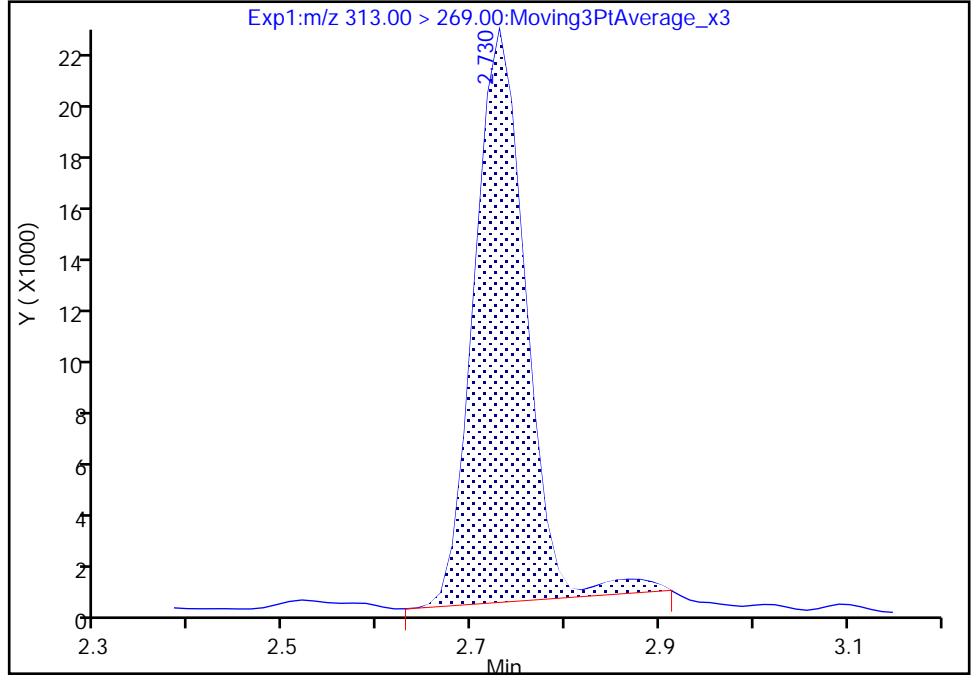
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

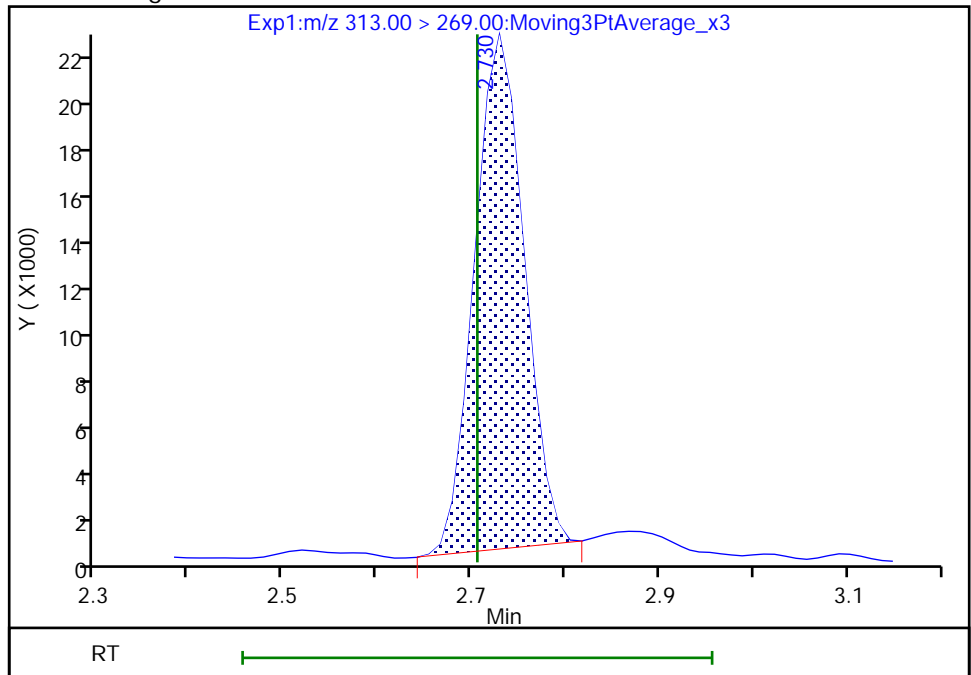
RT: 2.73
Area: 83137
Amount: 0.053829
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 79420
Amount: 0.051423
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

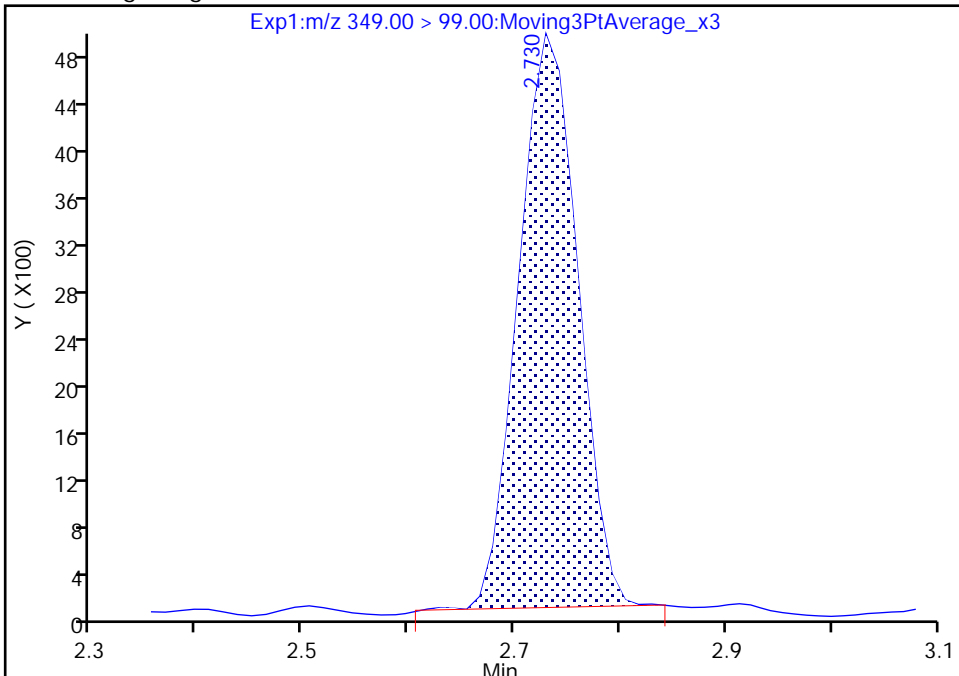
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Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

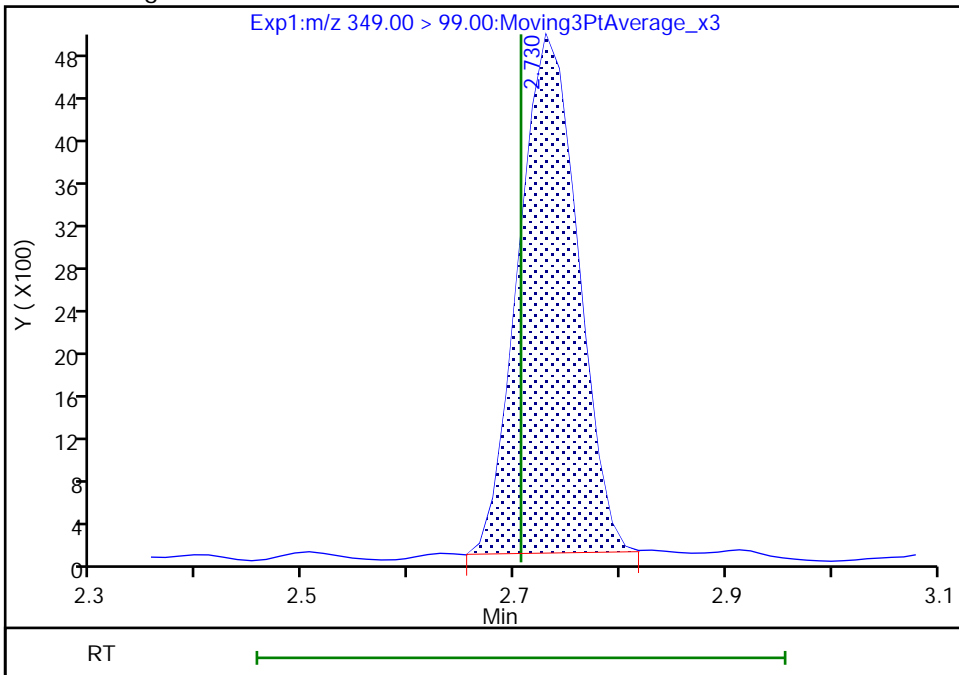
RT: 2.73
Area: 19245
Amount: 0.045044
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 19083
Amount: 0.045044
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

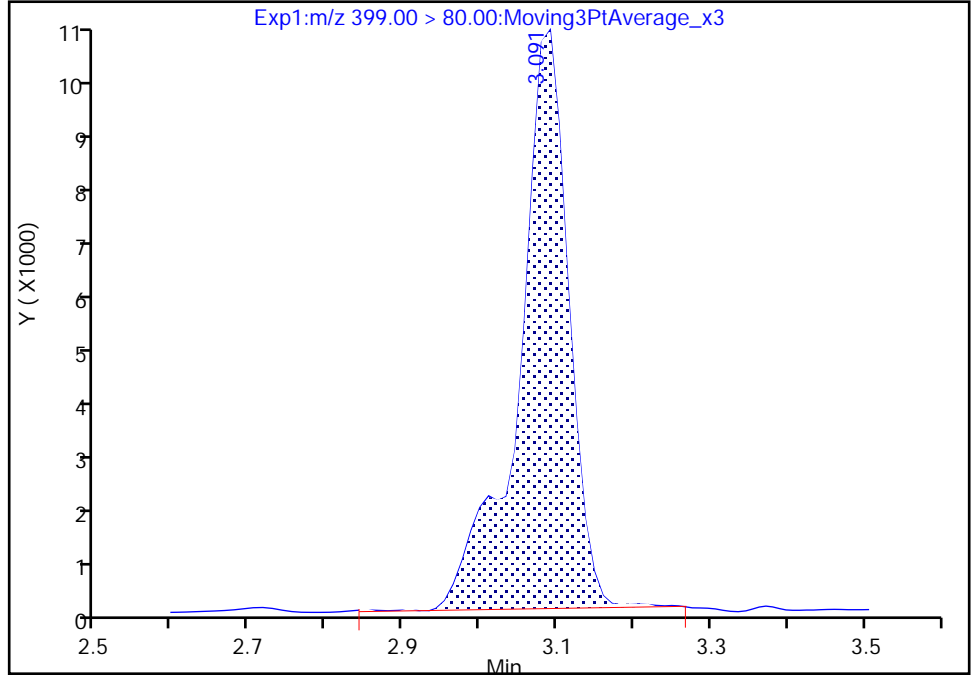
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

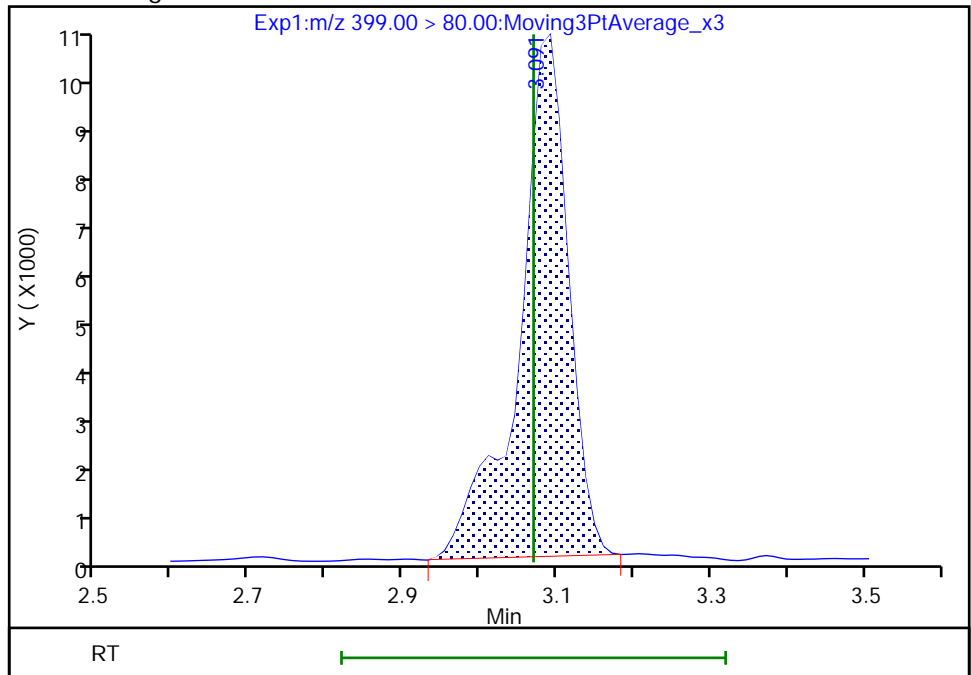
RT: 3.09
Area: 45084
Amount: 0.046198
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 44393
Amount: 0.045490
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

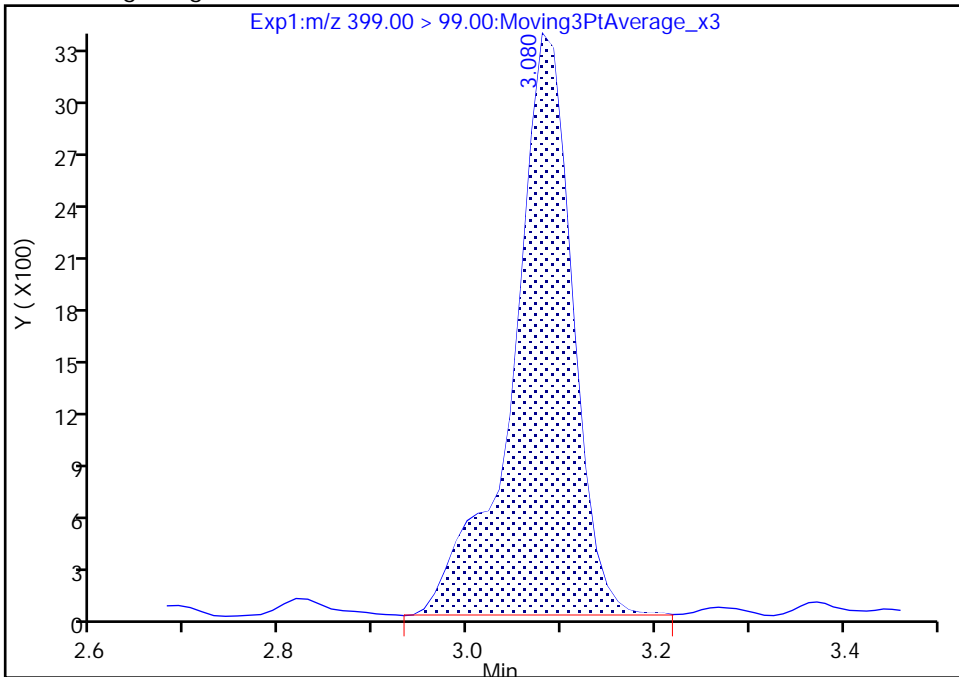
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

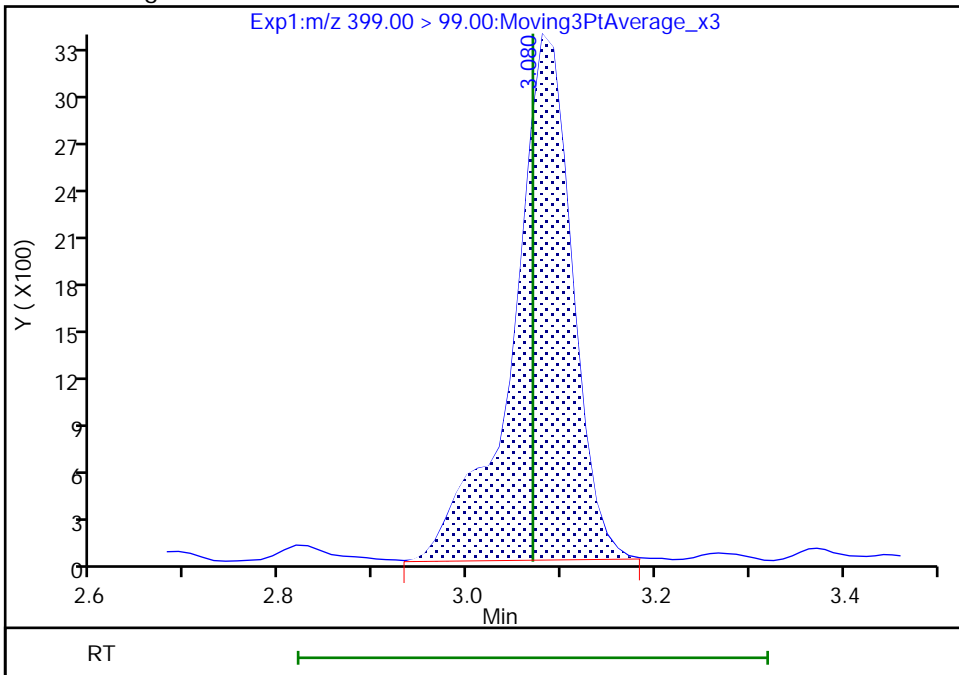
RT: 3.08
Area: 14673
Amount: 0.046198
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 14561
Amount: 0.045490
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

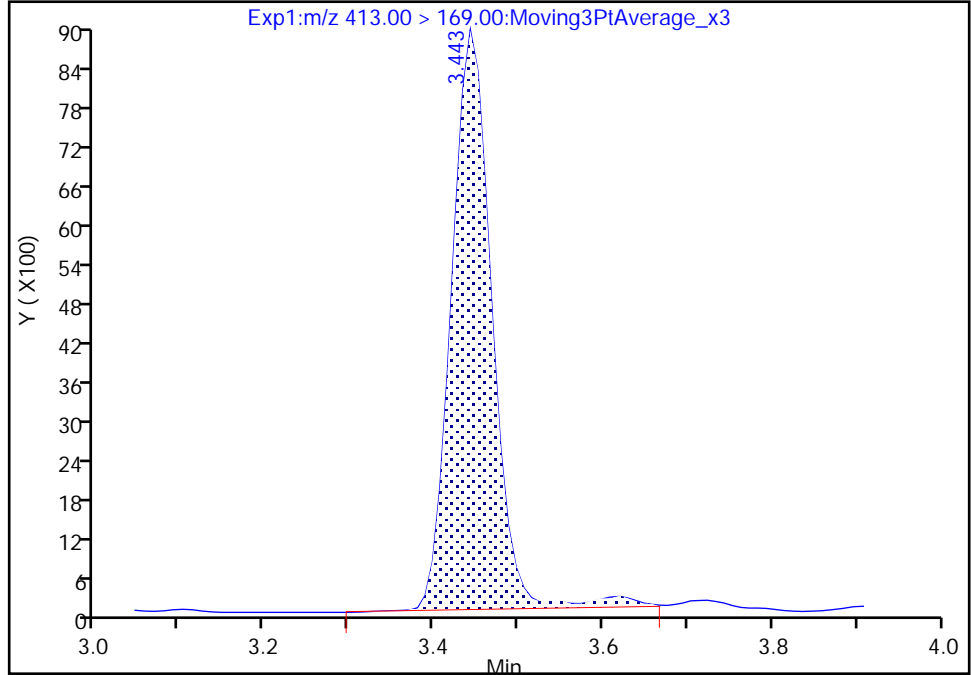
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

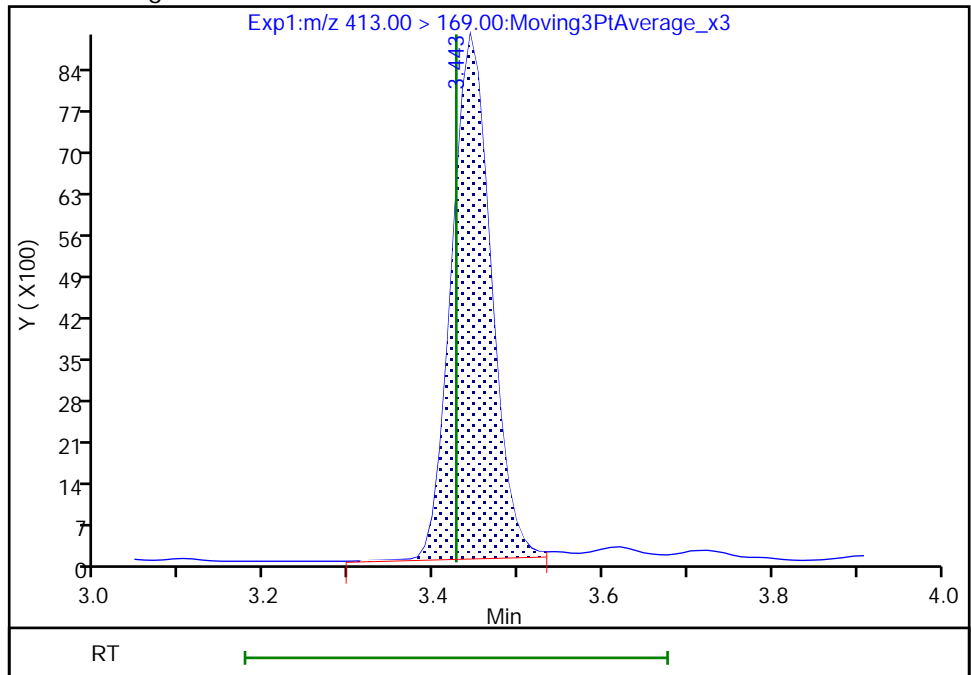
RT: 3.44
Area: 29538
Amount: 0.058188
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 28893
Amount: 0.057473
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

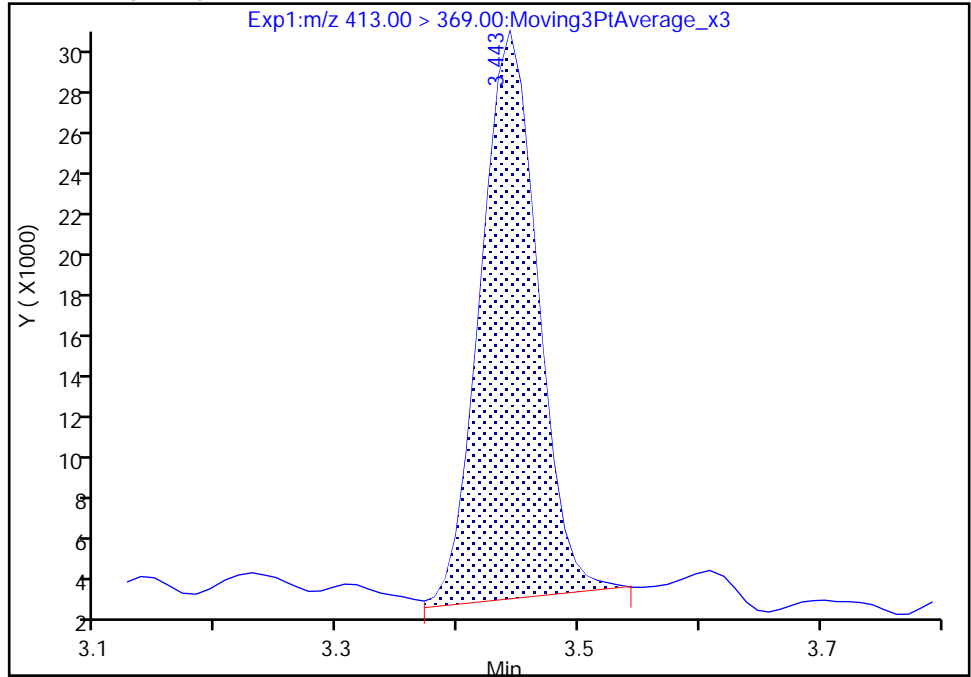
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

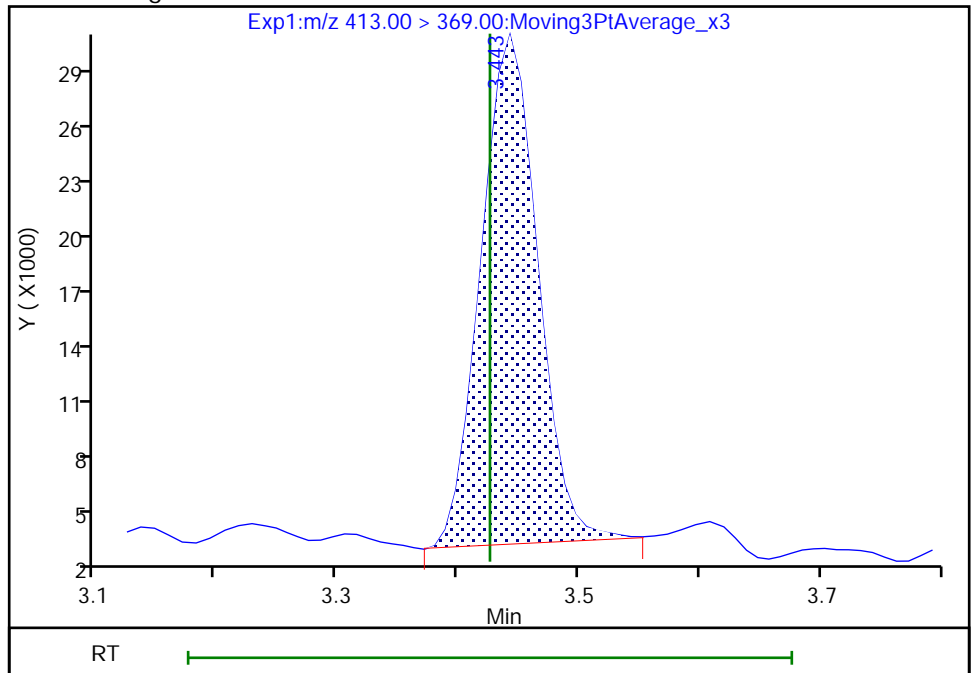
RT: 3.44
Area: 91253
Amount: 0.058188
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 90132
Amount: 0.057473
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

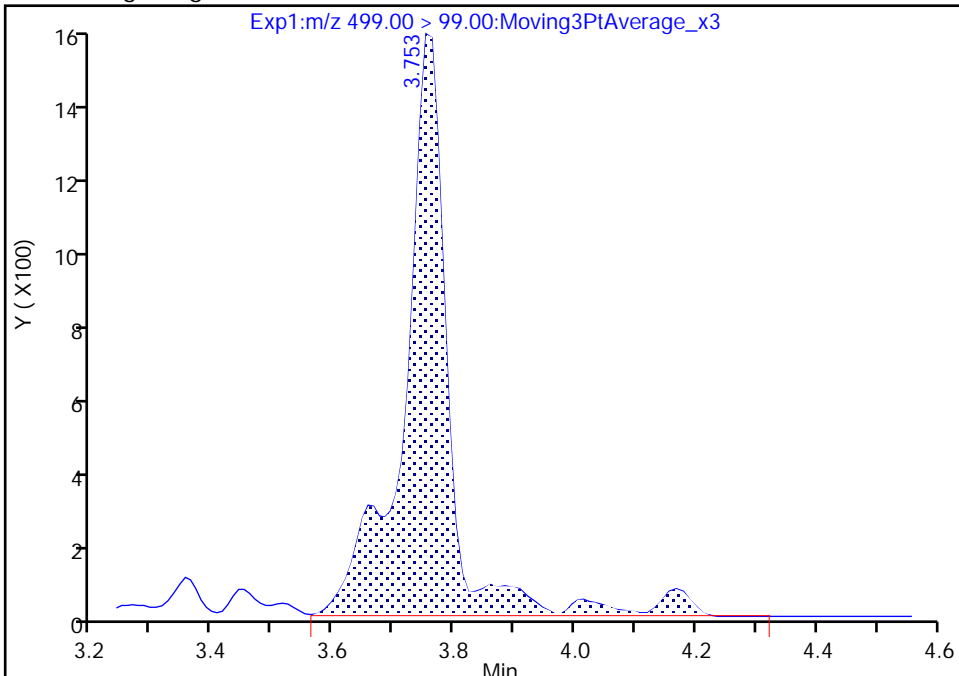
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

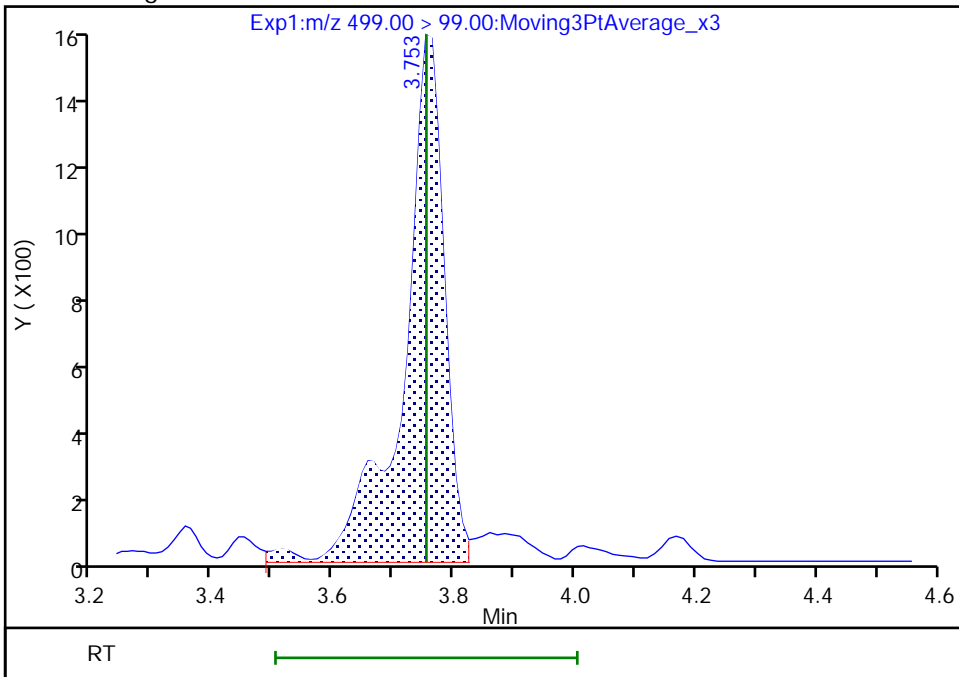
RT: 3.75
Area: 8326
Amount: 0.063008
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 7426
Amount: 0.053921
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

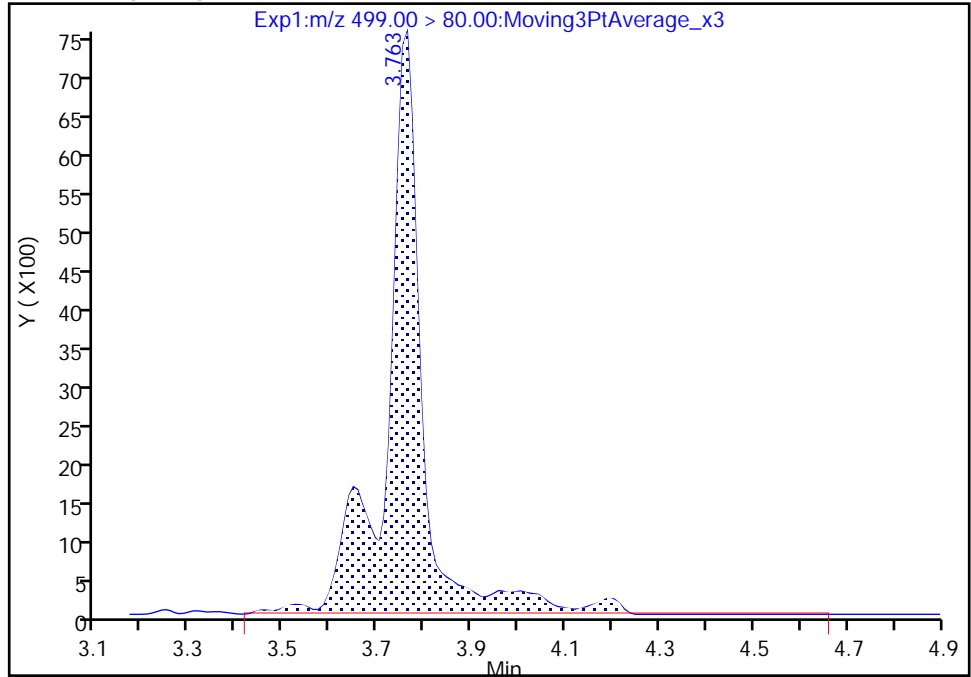
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

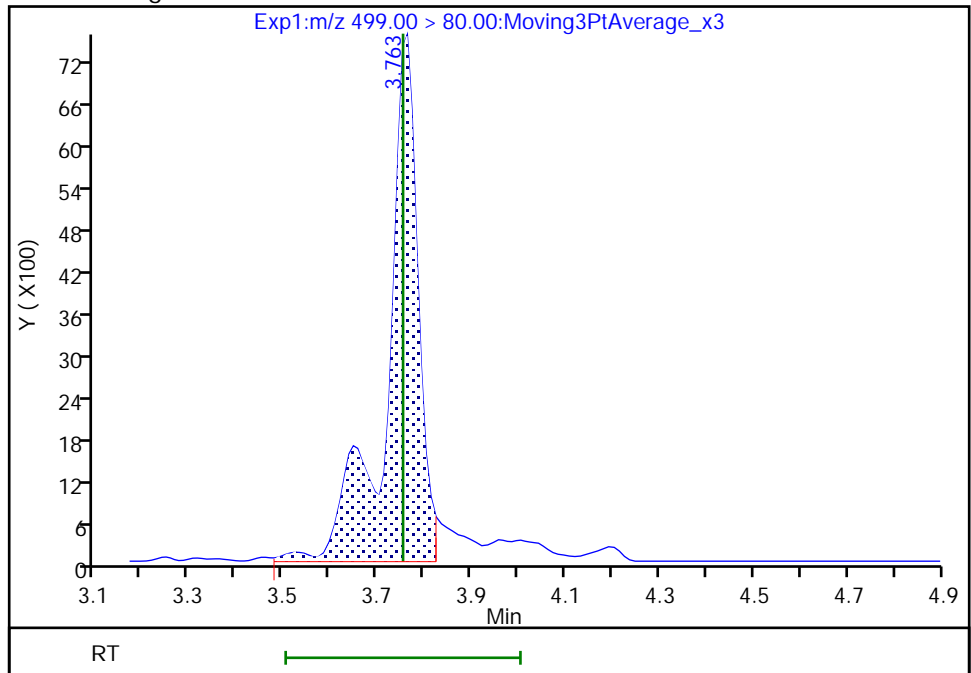
RT: 3.76
Area: 41182
Amount: 0.063008
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 35243
Amount: 0.053921
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

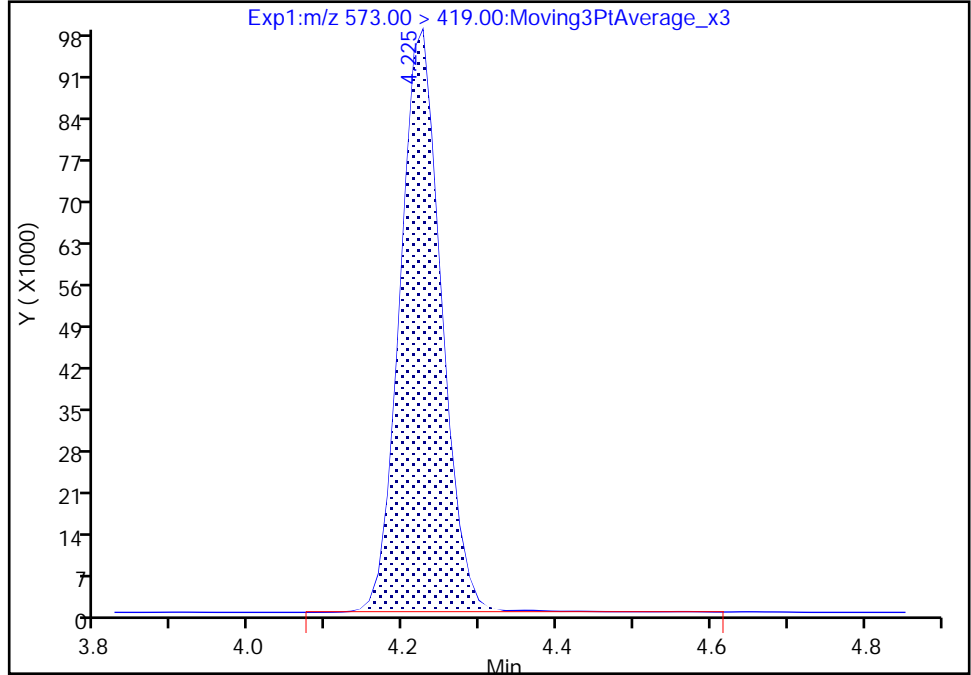
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

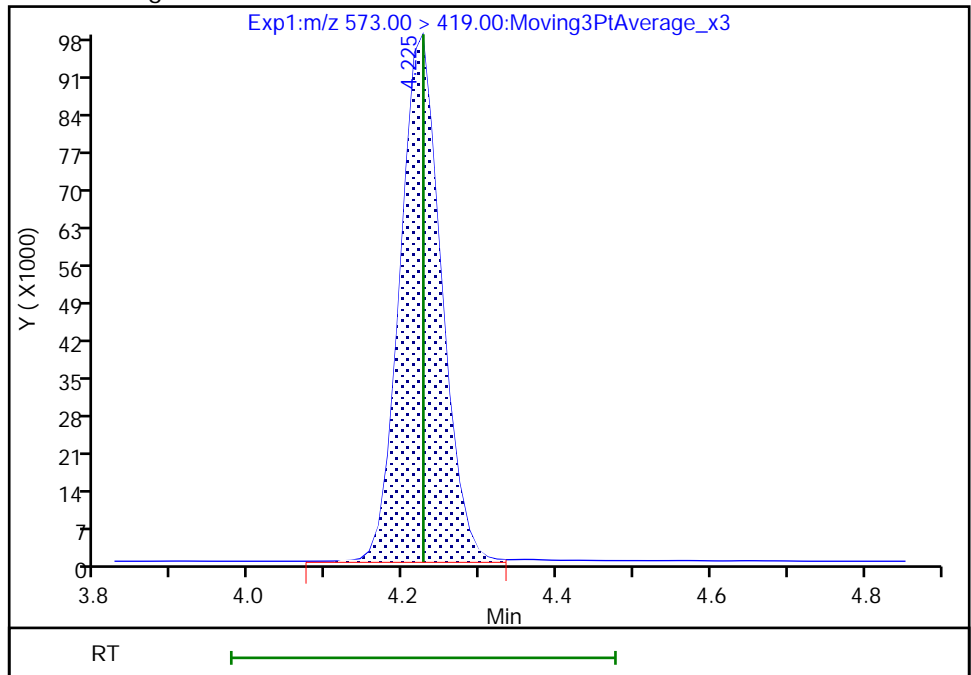
RT: 4.23
Area: 367991
Amount: 1.275544
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 365971
Amount: 1.268542
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:11:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

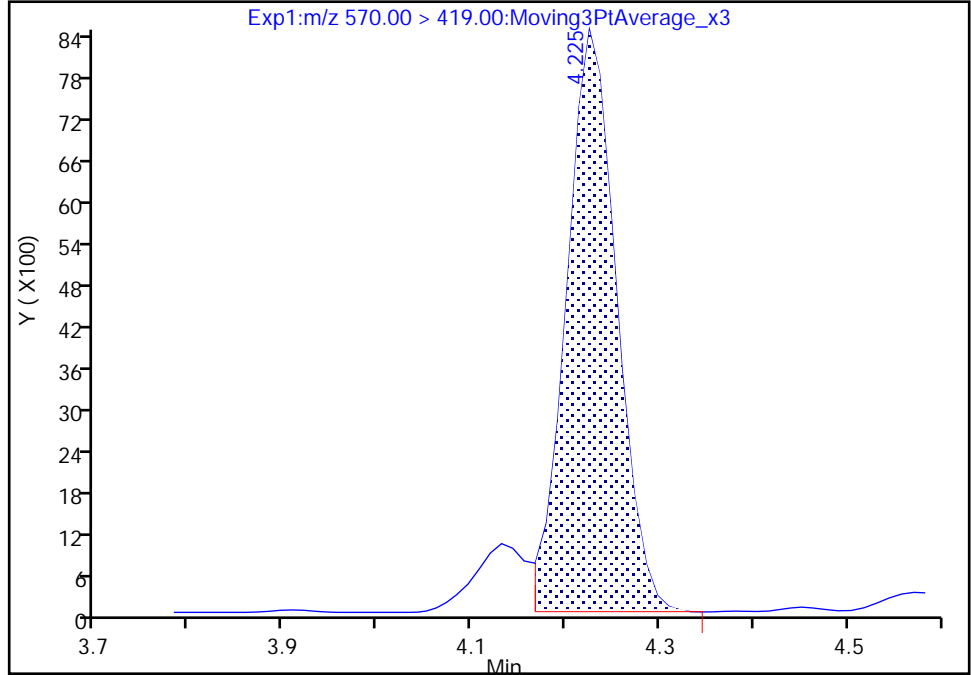
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

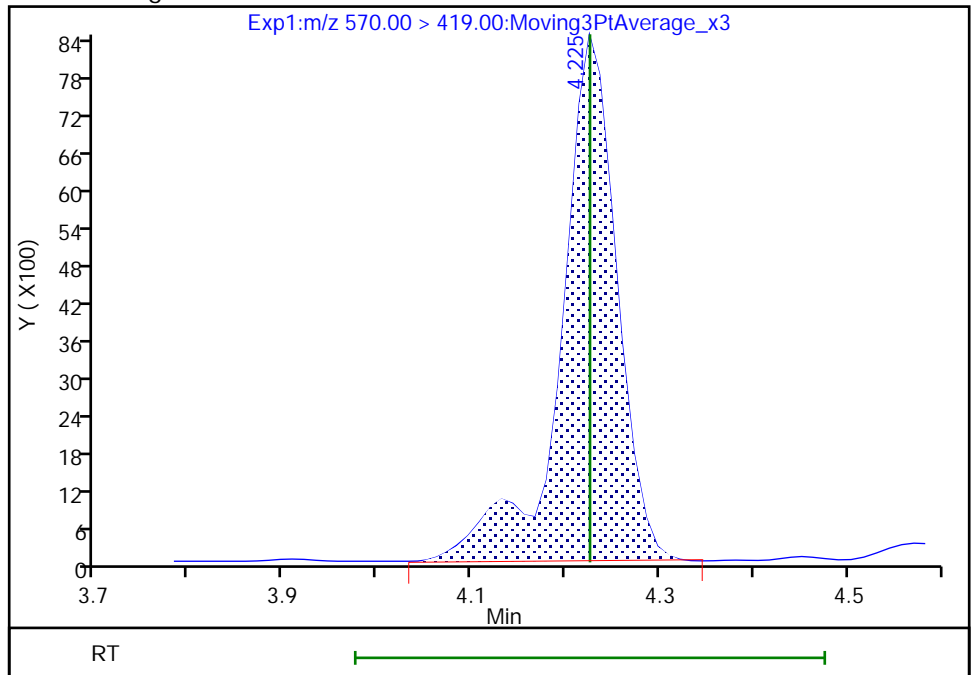
RT: 4.23
Area: 31317
Amount: 0.118635
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 35118
Amount: 0.133034
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

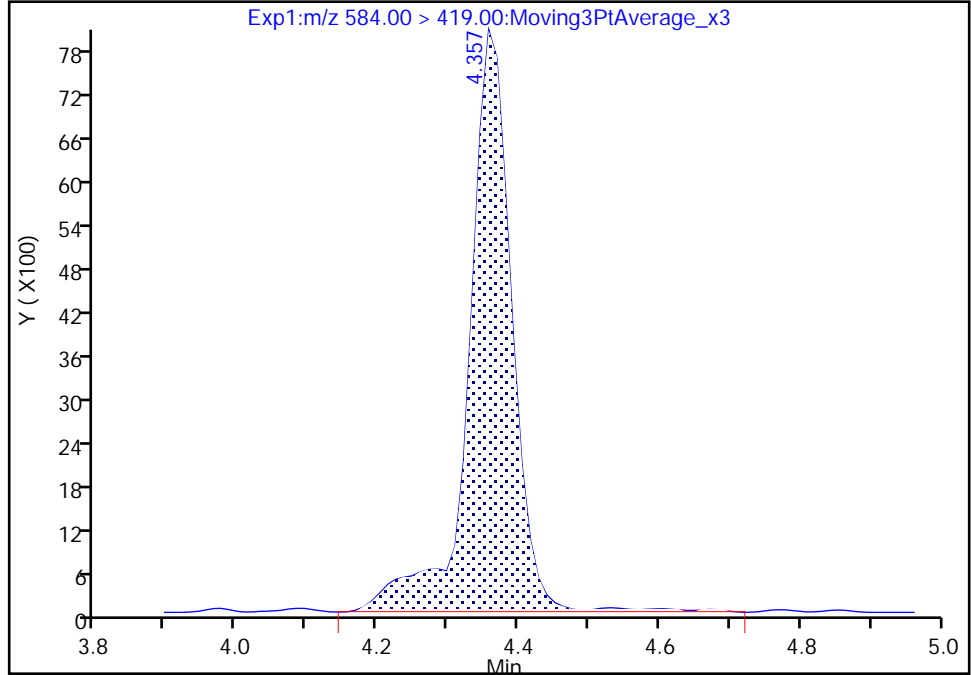
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

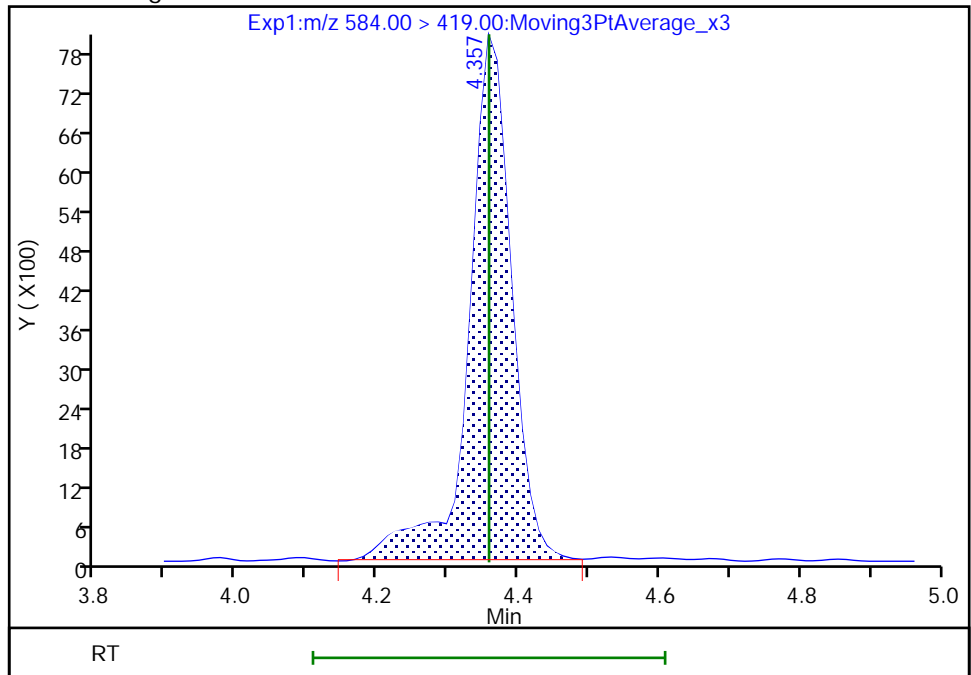
RT: 4.36
Area: 34564
Amount: 0.112945
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 33675
Amount: 0.110040
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

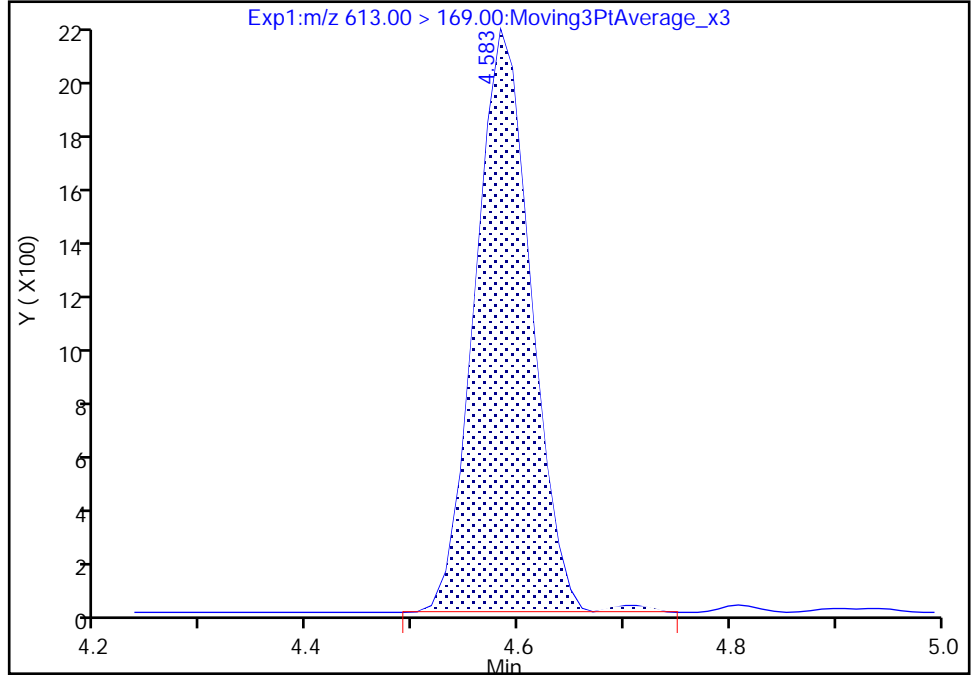
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Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

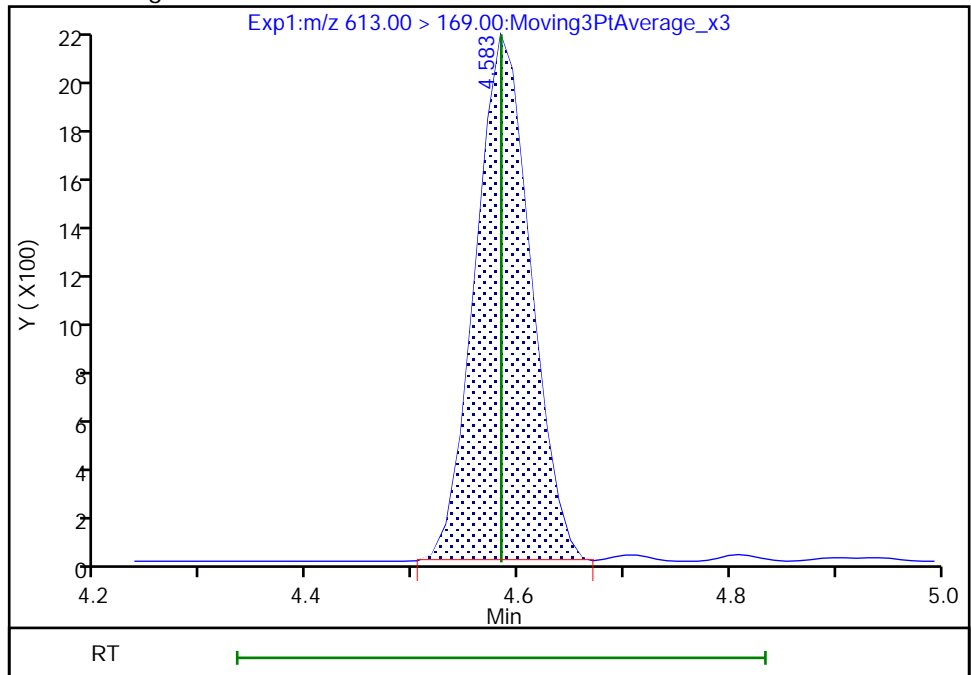
RT: 4.58
Area: 7831
Amount: 0.057879
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 7747
Amount: 0.057879
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

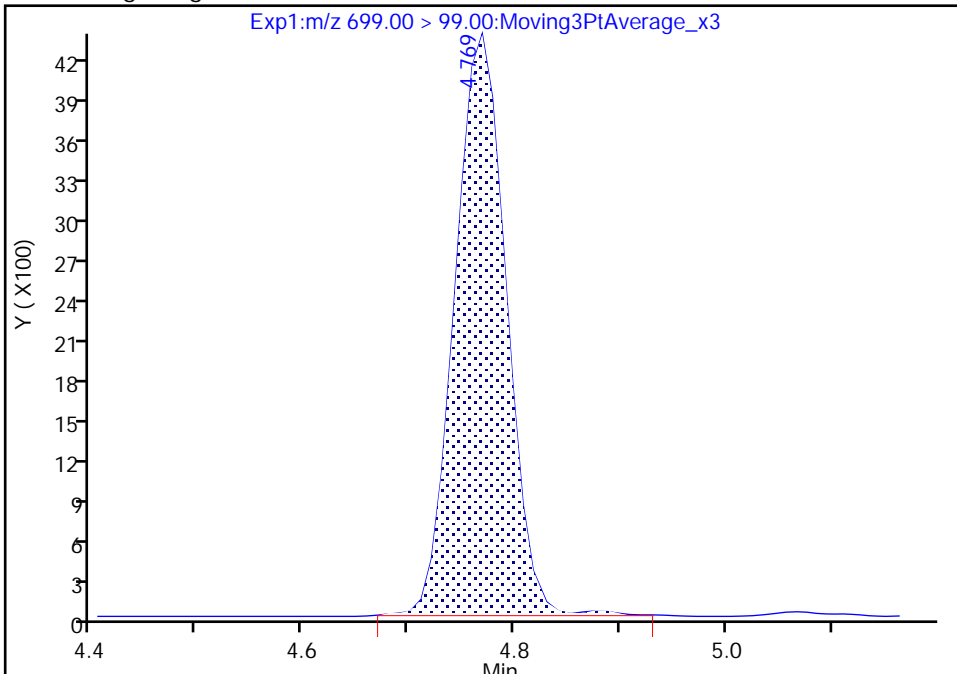
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Injection Date:	26-Jan-2023 20:19:10	Instrument ID:	LC812
Lims ID:	CCVLIS		
Client ID:			
Operator ID:	LC812user	ALS Bottle#:	2
		Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

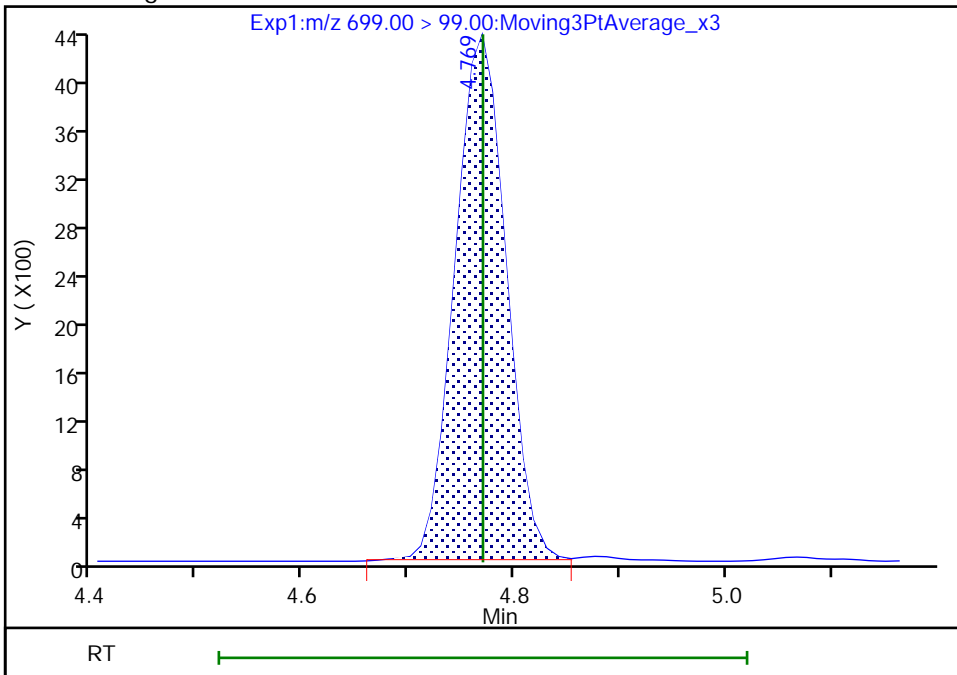
RT: 4.77
 Area: 14488
 Amount: 0.053175
 Amount Units: ng/ml

Processing Integration Results



RT: 4.77
 Area: 14393
 Amount: 0.053175
 Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:38
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

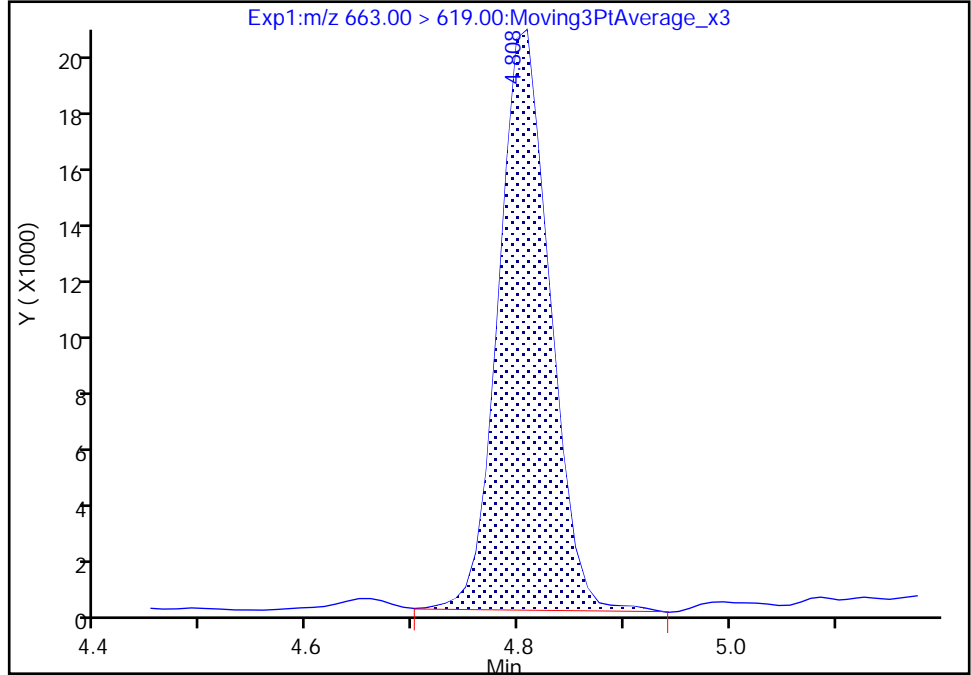
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

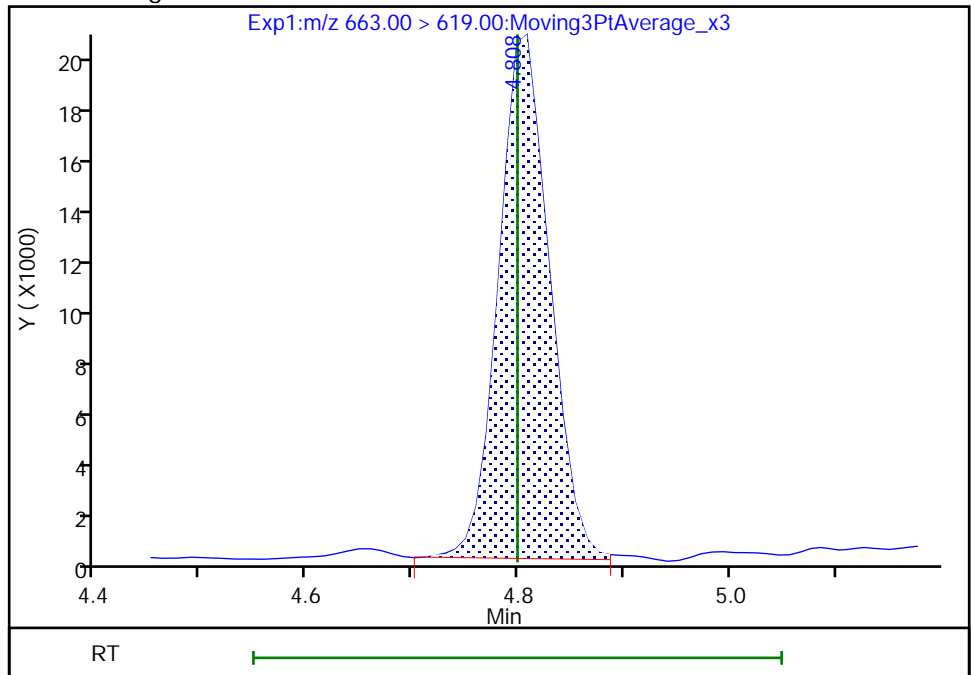
RT: 4.81
Area: 66657
Amount: 0.055921
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 66208
Amount: 0.055545
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

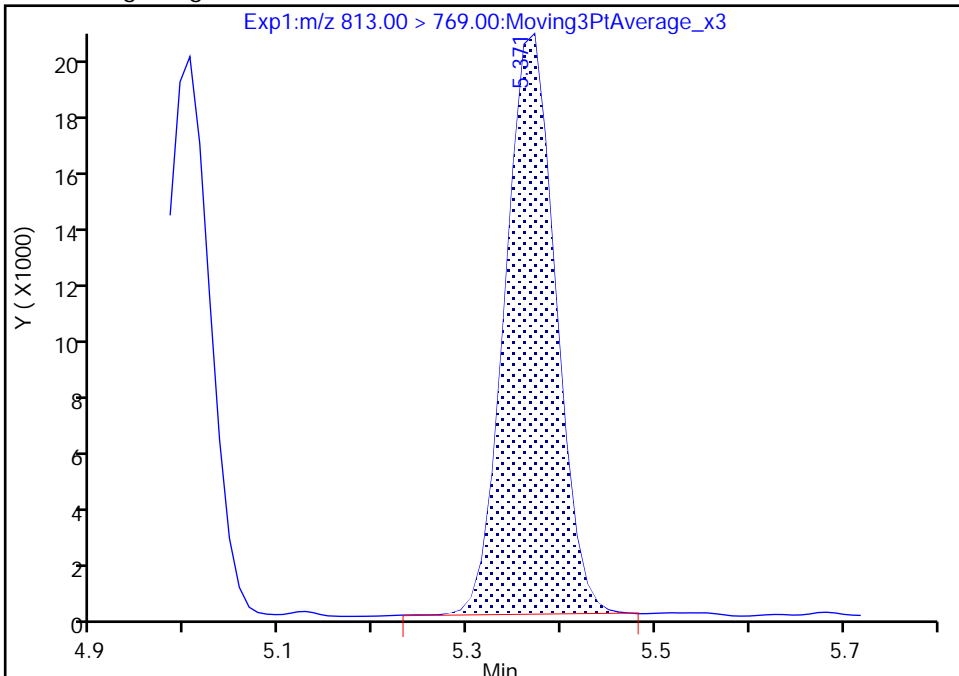
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

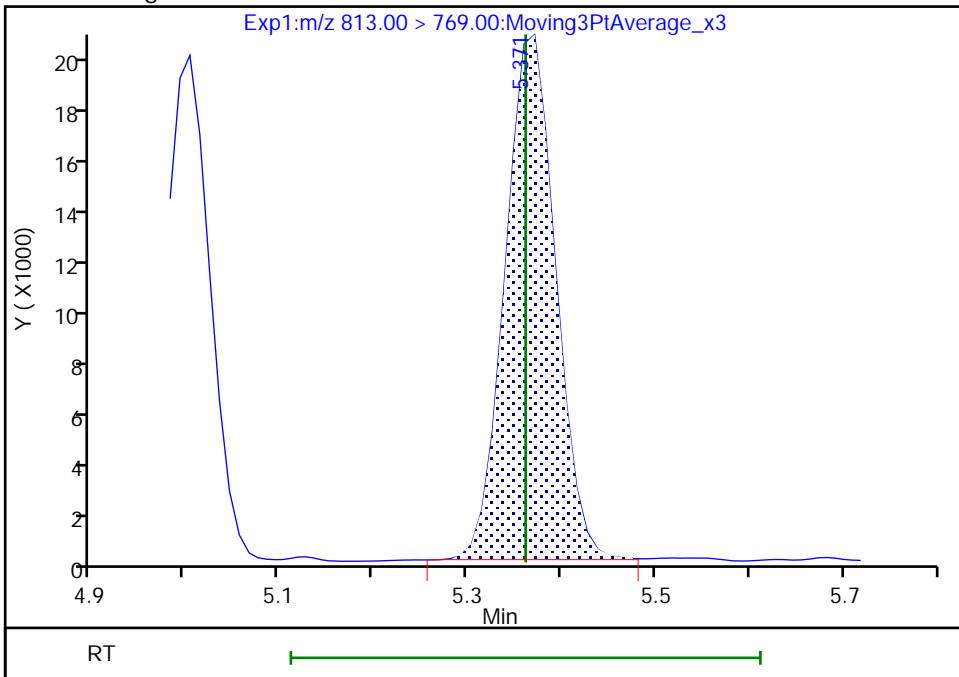
RT: 5.37
Area: 74261
Amount: 0.051026
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 74259
Amount: 0.051024
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:17:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

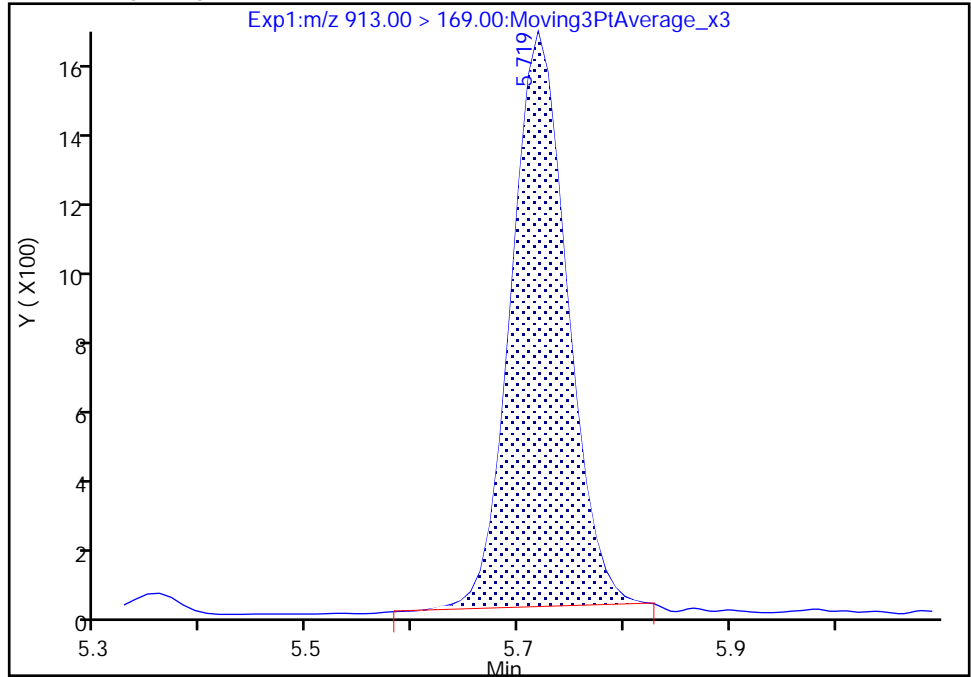
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Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

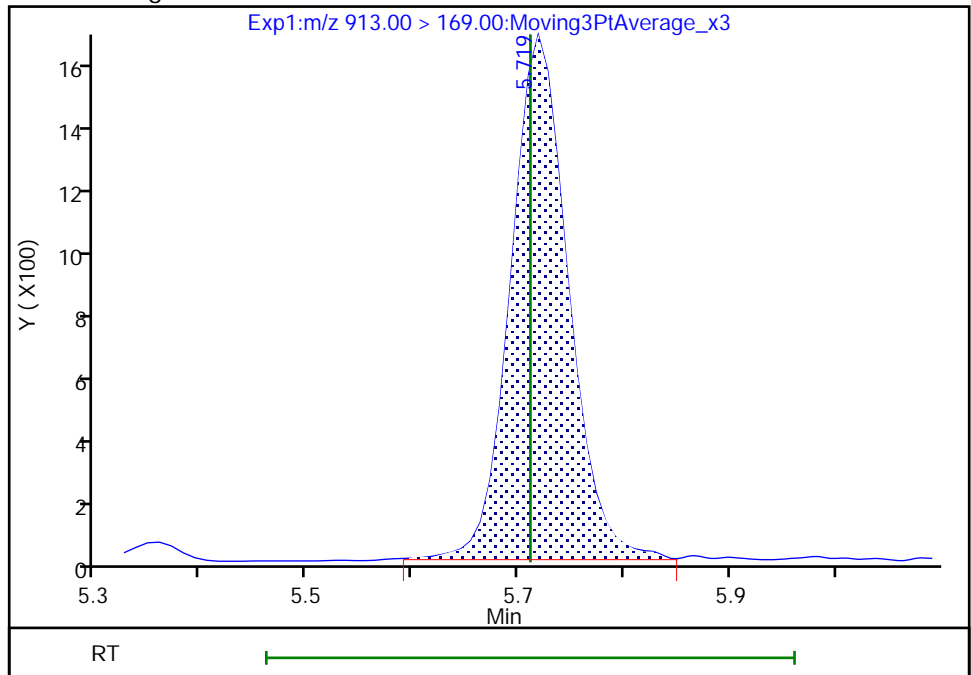
RT: 5.72
Area: 6159
Amount: 0.049448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 6332
Amount: 0.049955
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:33:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

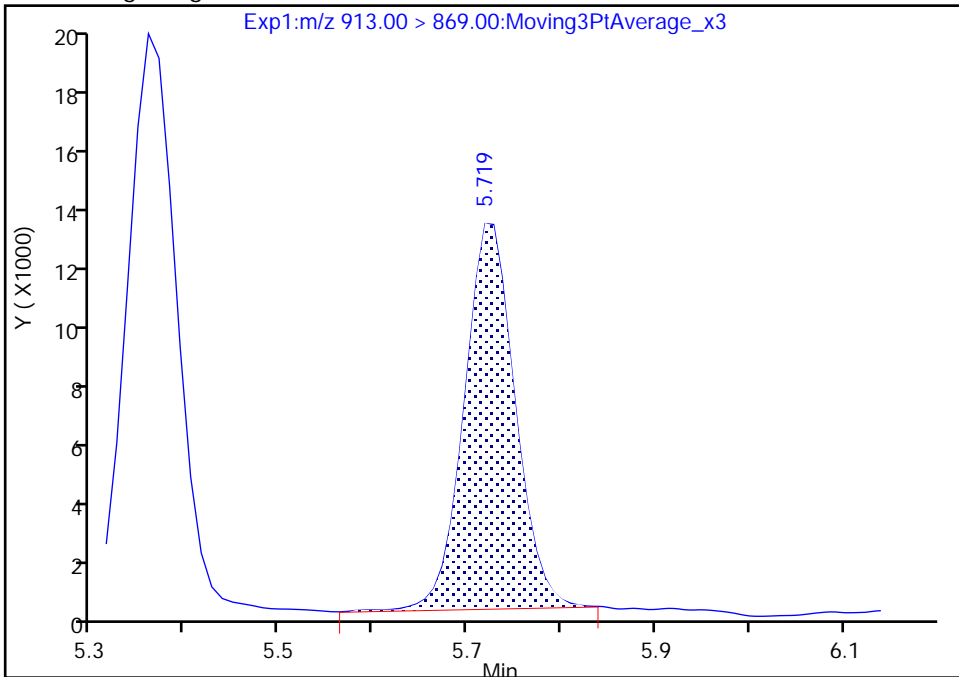
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

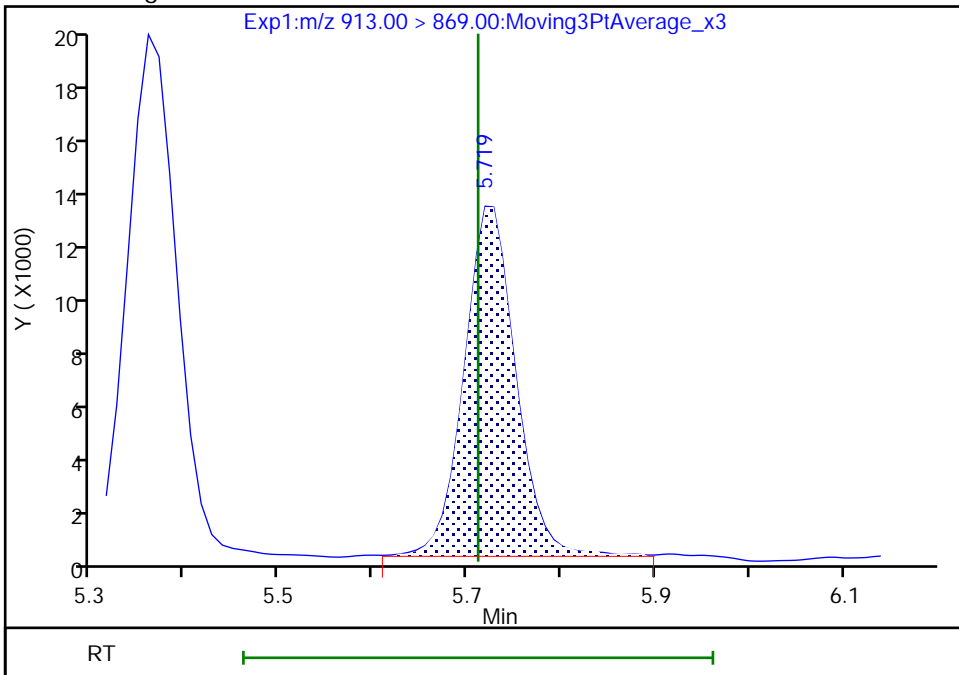
RT: 5.72
Area: 48729
Amount: 0.049448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 49228
Amount: 0.049955
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:33:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187884/20 Calibration Date: 01/26/2023 22:21
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.8373		0.840	1.00	-16.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	0.9227		0.806	1.00	-19.4	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	0.9553		0.788	0.884	-10.8	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	2.764		0.872	0.934	-6.6	
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.014		0.962	1.00	-3.8	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.260		0.956	0.938	1.9	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.8319		0.832	1.00	-16.8	
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	0.9455		0.888	1.00	-11.2	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	0.9784		0.811	0.910	-10.9	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	5.942		0.976	0.942	3.6	
6:2 FTS	AveID	2.290	2.278		0.943	0.948	-0.5	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.346		0.880	0.952	-7.5	
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.089		1.00	1.00	0.0	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.138		0.870	0.928	-6.3	
Perfluorononanoic acid (PFNA)	AveID	1.022	1.009		0.988	1.00	-1.2	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.939		0.945	0.932	1.3	
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.8653		0.823	0.960	-14.2	
Perfluorodecanoic acid (PFDA)	AveID	1.069	0.9342		0.874	1.00	-12.6	
8:2 FTS	AveID	1.814	1.864		0.984	0.958	2.7	
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.8838		0.879	1.00	-12.1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.9271		1.03	1.00	2.8	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7118		0.912	0.964	-5.4	
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	0.8859		0.812	1.00	-18.8	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.8442		0.909	1.00	-9.1	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	5.017		1.05	0.942	11.8	
Perfluorododecanoic acid (PFDoA)	AveID	1.018	0.9218		0.905	1.00	-9.5	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.267		1.07	0.964	10.5	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2824		0.895	0.968	-7.6	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187884/20 Calibration Date: 01/26/2023 22:21
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	1.050		1.03	1.00	3.3	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1073		0.860	1.00	-14.0	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9124		0.984	1.00	-1.6	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.7896		0.976	1.00	-2.4	
13C4 PFBA	Ave	1.150	1.270		1.38	1.25	10.4	
13C5 PFPeA	Ave	0.9294	1.022		1.37	1.25	9.9	
13C3 PFBS	Ave	1.020	1.009		1.15	1.16	-1.1	
M2-4:2 FTS	Ave	0.0825	0.0814		1.15	1.17	-1.3	
13C2 PFHxA	Ave	0.9657	1.008		1.31	1.25	4.4	
13C3 HFPO-DA	Ave	0.1673	0.1638		1.22	1.25	-2.1	
13C4 PFHpA	Ave	0.9669	0.9932		1.28	1.25	2.7	50.0
18O2 PFHxS	Ave	0.7424	0.6417		1.02	1.18	-13.6	50.0
M2-6:2 FTS	Ave	0.1170	0.1238		1.26	1.19	5.7	
13C4 PFOA	Ave	1.024	1.031		1.26	1.25	0.7	50.0
13C4 PFOS	Ave	0.4514	0.4160		1.10	1.20	-7.8	50.0
13C5 PFNA	Ave	0.998	1.057		1.32	1.25	6.0	50.0
13C2 PFDA	Ave	1.024	1.135		1.39	1.25	10.9	
M2-8:2 FTS	Ave	0.1466	0.1553		1.27	1.20	5.9	
13C8 FOSA	Ave	0.8320	0.8688		1.31	1.25	4.4	
d3-NMeFOSAA	Ave	0.2013	0.2364		1.47	1.25	17.5	
13C2 PFUnA	Ave	0.8836	0.9691		1.37	1.25	9.7	
d5-NEtFOSAA	Ave	0.1934	0.2392		1.55	1.25	23.7	
13C2 PFDoA	Ave	0.8860	0.9299		1.31	1.25	5.0	
13C2 PFTeDA	Ave	0.7620	0.9411		1.54	1.25	23.5	
13C2 PFHxDA	Ave	0.9339	0.9147		1.22	1.25	-2.1	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Jan-2023 22:21:31 ALS Bottle#: 17 Worklist Smp#: 20
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0054135-020 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:40:09 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620
 First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:48:46
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.074	2.094	-0.020	0.603	2092396	1.38	110	23048	
2 Perfluorobutanoic acid	212.90 > 169.00	2.083	2.094	-0.011	1.004	1401566	0.8404	84.0	184	
D 3 13C5 PFPeA	267.90 > 223.00	2.390	2.370	0.020	0.694	1683860	1.37	110	8158	
4 Perfluoropentanoic acid	262.90 > 219.00	2.390	2.370	0.020	1.000	1242960	0.8057	80.6	42.9	M
D 47 13C3 PFBS	301.90 > 80.00	2.403	2.384	0.019	0.698	1546829	1.15	98.9	178911	M
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.403	2.384	0.019	1.000	1123685	0.7883	Target=2.10	89.2	2771
	298.90 > 99.00	2.403	2.384	0.019	1.000	515993	2.18(1.05-3.15)		668	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.698	2.669	0.029	1.005	277024	0.8723	93.4	3634	
D 60 M2-4:2 FTS	329.00 > 81.00	2.685	2.669	0.016	0.780	125295	1.15	98.7	224	M
D 7 13C2 PFHxA	315.00 > 270.00	2.735	2.694	0.041	0.795	1661743	1.31	104	5763	
6 Perfluorohexanoic acid	313.00 > 269.00	2.723	2.706	0.017	0.995	1347548	0.9621	Target=13.16	96.2	317
	313.00 > 119.00	2.735	2.706	0.029	1.000	95958	14.04(6.58-19.74)		235	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.735	2.706	0.029	0.886	999995	0.9555	Target=2.90	102	2126
	349.00 > 99.00	2.735	2.706	0.029	0.886	350196	2.86(1.45-4.35)		1281	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.835	2.806	0.029	1.000	179678	0.8322	83.2	5739	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.806	0.029	0.824	269993	1.22		97.9	4534	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.069	0.018	0.897	1000506	1.02		86.4	3711	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.087	3.069	0.018	1.000	753351	0.8112	Target=3.18	89.1	1790	M
399.00 > 99.00	3.087	3.069	0.018	1.000	246157		3.06(1.59-4.77)		677	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.069	0.018	0.897	1636867	1.28		103	8654	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.087	3.069	0.018	1.000	1238099	0.8878	Target=4.10	88.8	286	M
363.00 > 169.00	3.087	3.069	0.018	1.000	344469		3.59(2.05-6.16)		1374	
77 DONA										
377.00 > 251.00	3.122	3.104	0.018	0.832	3069721	0.9760	Target=2.96	104	2766	
377.00 > 85.00	3.122	3.104	0.018	0.832	961466		3.19(1.48-4.44)		2512	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.417	0.015	0.997	193771	1.26		106	995	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.432	3.417	0.015	1.000	352424	0.9432		99.5	807	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.432	3.417	0.015	0.915	702671	0.8805	Target=4.59	92.5	2313	M
449.00 > 99.00	3.432	3.417	0.015	0.915	156228		4.50(2.30-6.89)		1276	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.426	0.015	1.000	1699345	1.26		101	7715	
* 62 13C2 PFOA										
415.00 > 370.00	3.441	3.426	0.015		1648139	1.25			3746	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.441	3.426	0.015	1.000	1480024	1.00	Target=2.71	100	135	M
413.00 > 169.00	3.441	3.426	0.015	1.000	469635		3.15(1.36-4.07)		1214	M
D 18 13C4 PFOS										
503.00 > 80.00	3.751	3.754	-0.003	1.090	655404	1.10		92.2	2575	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.751	3.754	-0.003	1.000	579350	0.8695	Target=4.23	93.7	727	M
499.00 > 99.00	3.751	3.754	-0.003	1.000	129723		4.47(2.11-6.34)		730	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.771	3.774	-0.003	1.000	1406871	0.9878	Target=8.78	98.8	305	
463.00 > 169.00	3.771	3.774	-0.003	1.000	159038		8.85(4.39-13.17)		2585	
D 19 13C5 PFNA										
468.00 > 423.00	3.771	3.774	-0.003	1.096	1742732	1.32		106	7111	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.919	3.922	-0.003	1.045	1502310	0.9446		101	6856	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.049	4.043	0.006	1.080	455588	0.8233	Target=2.37	85.8	2951	
549.00 > 99.00	4.040	4.043	-0.003	1.077	198339		2.30(1.18-3.55)		1443	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.074	-0.003	1.183	1871122	1.39		111	9752	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.071	4.074	-0.003	1.000	1398344	0.8737	Target=11.13	87.4	523	
513.00 > 169.00	4.071	4.074	-0.003	1.000	132982		10.52(5.56-16.69)		797	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.085	-0.004	1.186	245242	1.27		106	1148	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.085	-0.004	1.000	365678	0.9843		103	6238	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.141	4.144	-0.003	1.000	1012486	0.8788		87.9	3131	
D 21 13C8 FOSA										
506.00 > 78.00	4.141	4.144	-0.003	1.203	1431943	1.31		104	3908	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.223	4.226	-0.003	1.227	389634	1.47		117	1027	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.223	4.226	-0.003	1.000	288974	1.03		103	690	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.318	4.322	-0.004	1.151	376315	0.9123	Target=2.45	94.6	2284	
599.00 > 99.00	4.318	4.322	-0.004	1.151	149411		2.52(1.23-3.68)		1335	
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.346	-0.004	1.262	1597144	1.37		110	7425	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.346	-0.004	1.000	1131928	0.8115	Target=10.33	81.2	356	
563.00 > 169.00	4.342	4.346	-0.004	1.000	105363		10.74(5.17-15.50)		768	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.354	4.358	-0.004	1.000	266245	0.9087		90.9	725	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.354	4.358	-0.004	1.265	394216	1.55		124	872	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.448	4.452	-0.004	1.186	2591950	1.05		112	5962	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.584	-0.004	1.000	1130270	0.9054	Target=8.10	90.5	152	M
613.00 > 169.00	4.580	4.584	-0.004	1.000	143962		7.85(4.05-12.15)		1837	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.584	-0.004	1.331	1532653	1.31		105	6224	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.602	4.606	-0.004	1.128	250171	1.06		110	3102	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.767	4.770	-0.003	1.271	149939	0.8948	Target=0.51	92.4	2040	
699.00 > 99.00	4.758	4.770	-0.012	1.268	277968		0.54(0.26-0.77)		3514	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.796	4.799	-0.003	1.047	1287990	1.03	Target=6.06	103	175	M
663.00 > 169.00	4.796	4.799	-0.003	1.047	202250		6.37(3.03-9.09)		1940	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.993	4.998	-0.005	1.000	133179	0.8596	Target=0.83	86.0	2192	
713.00 > 219.00	4.993	4.998	-0.005	1.000	145398		0.92(0.42-1.25)		1576	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.993	4.998	-0.005	1.451	1551108	1.54		124	6462	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.359	5.362	-0.003	1.000	1100490	0.9844	Target=6.74	98.4	169	
813.00 > 169.00	5.359	5.362	-0.003	1.000	153321		7.18(3.37-10.11)		2166	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.359	5.362	-0.003	1.557	1507631	1.22		97.9	6927	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.727	5.711	0.016	1.069	952353	0.9762	Target=6.99	97.6	186	M
913.00 > 169.00	5.718	5.711	0.007	1.067	122485		7.78(3.50-10.49)		784	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00037

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d

Injection Date: 26-Jan-2023 22:21:31

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: LC812user

ALS Bottle#: 17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

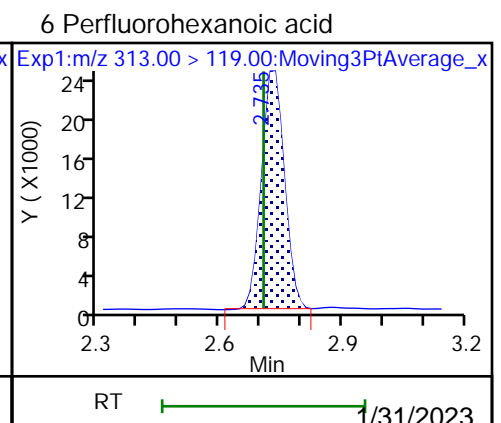
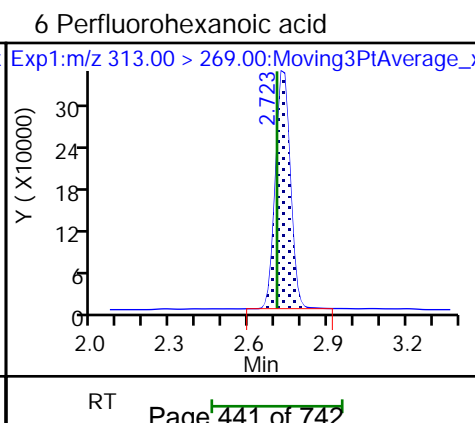
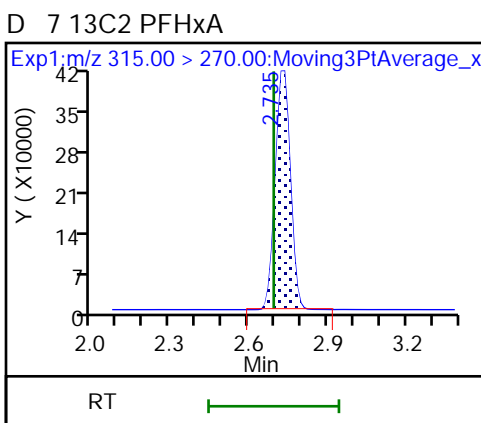
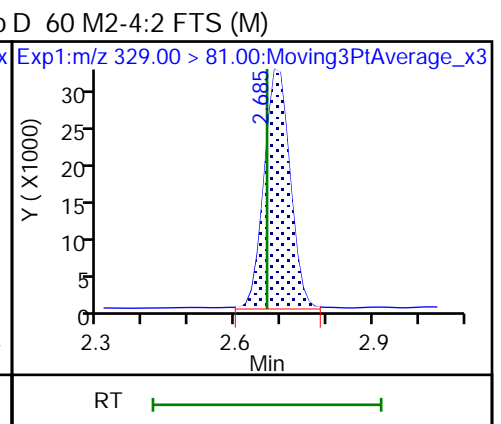
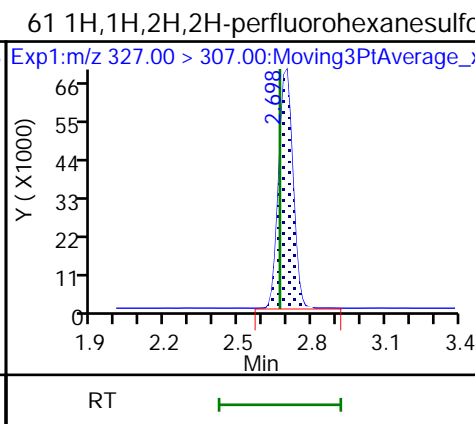
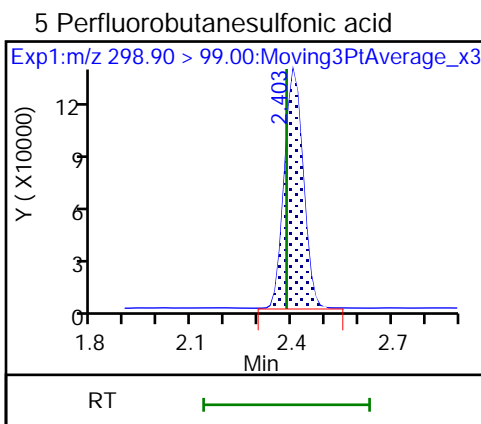
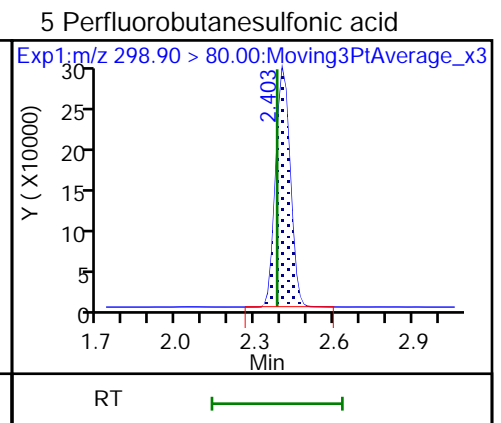
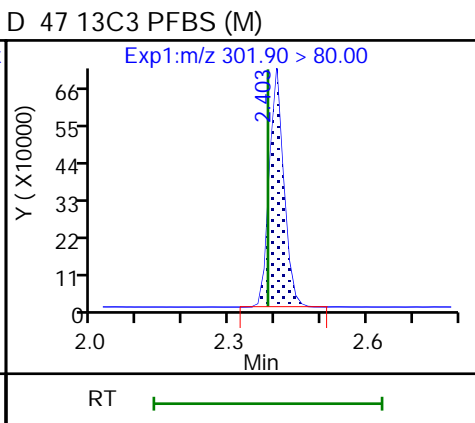
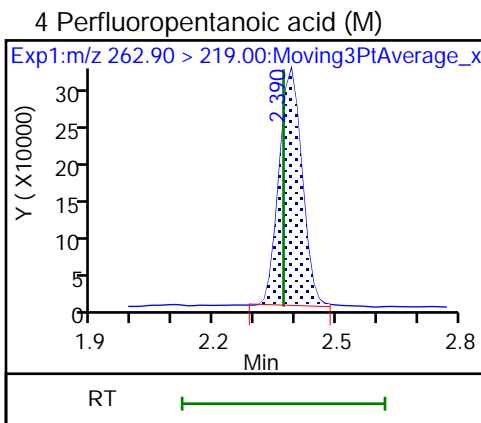
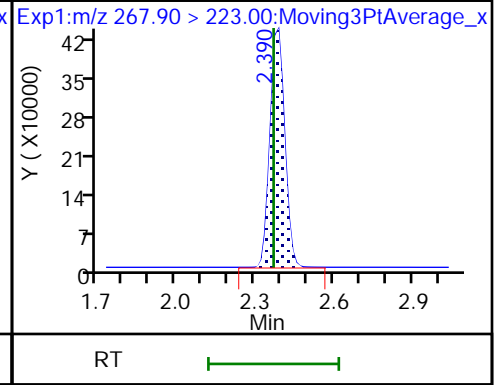
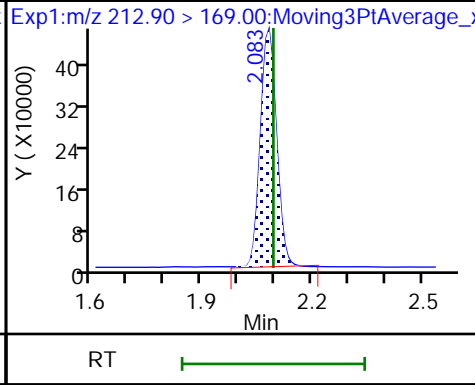
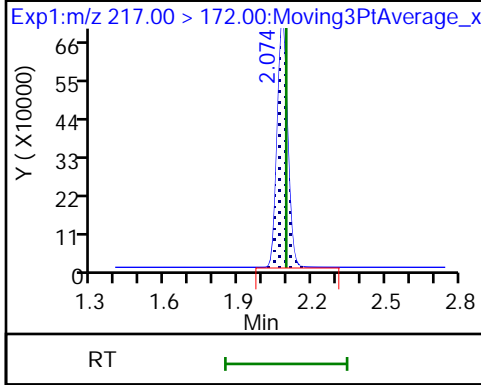
Method: PFC_LC812

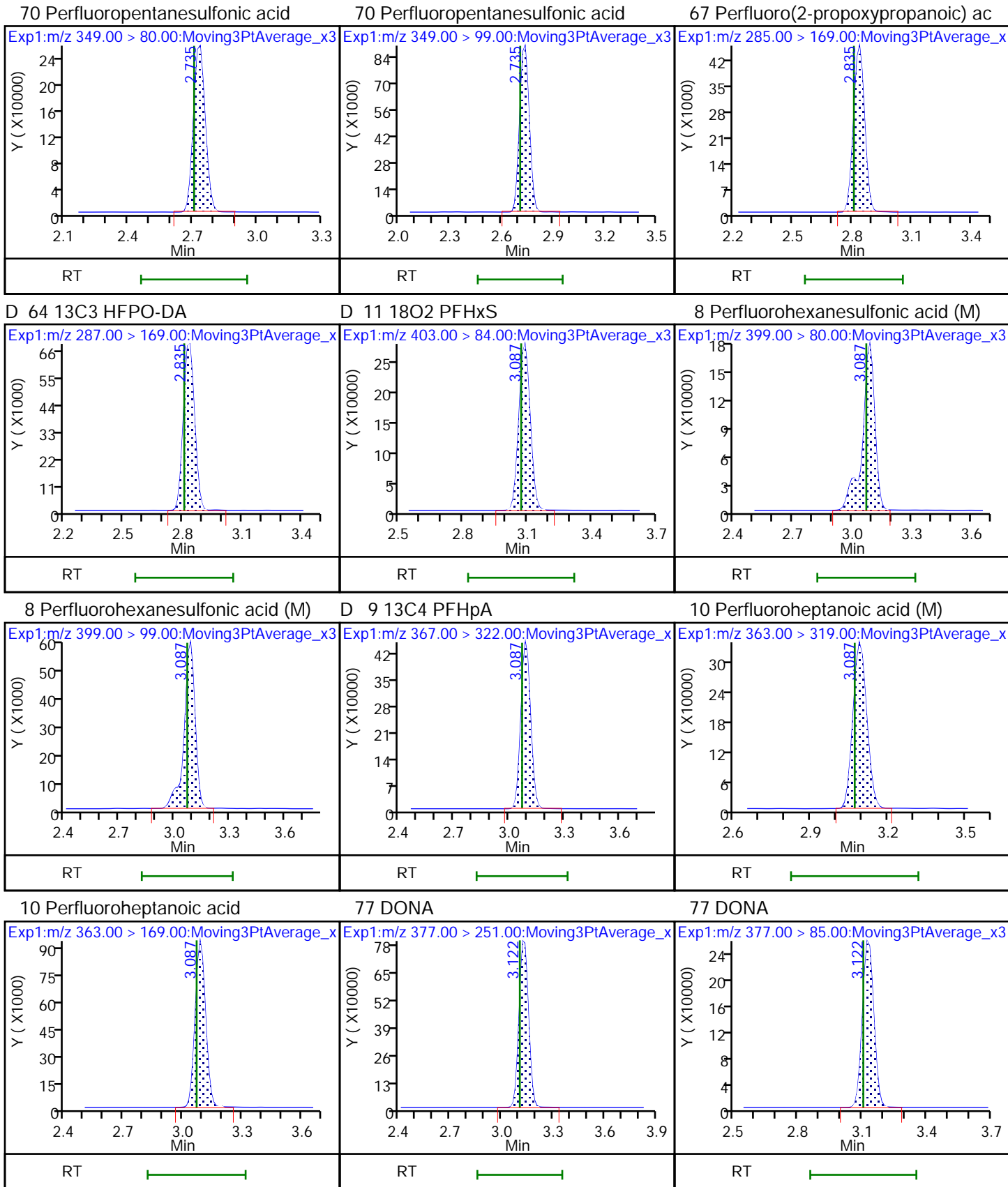
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D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

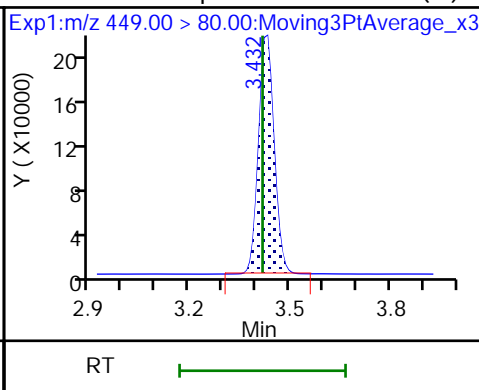
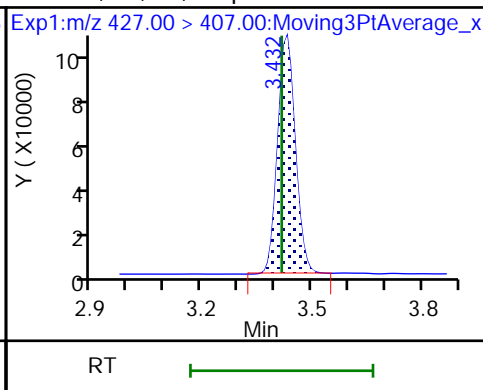
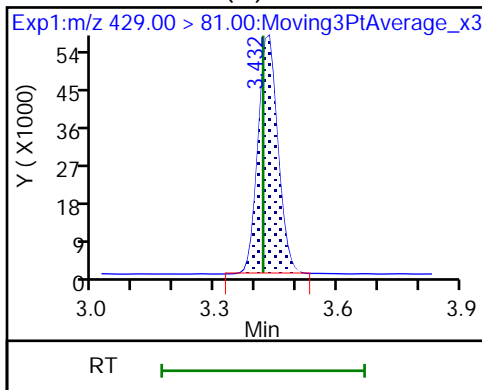




D 12 M2-6:2 FTS (M)

13 1H,1H,2H,2H-perfluorooctanesulfo

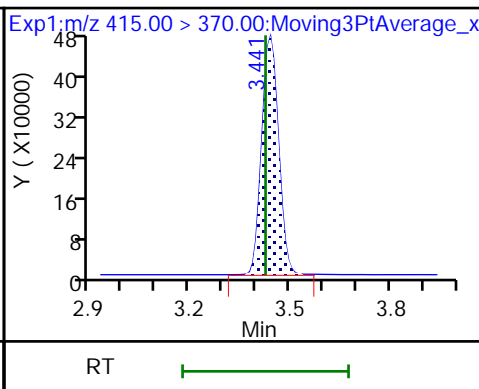
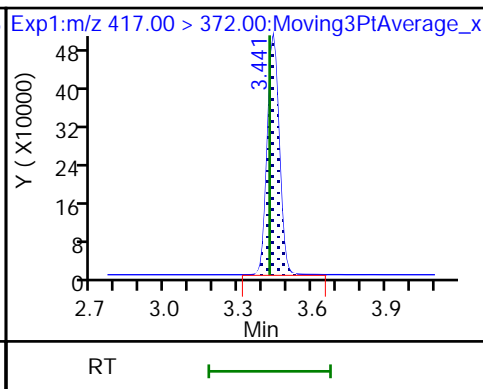
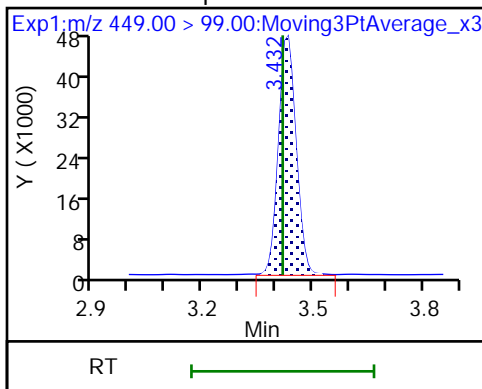
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

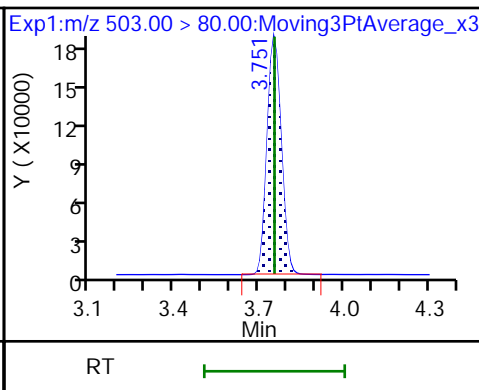
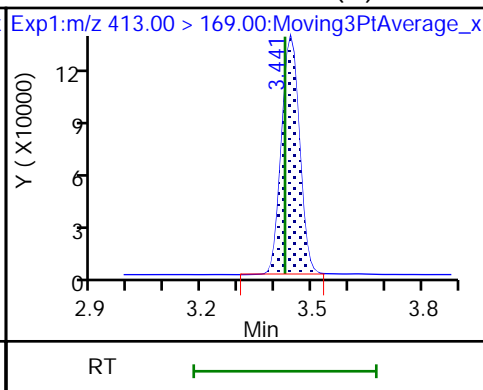
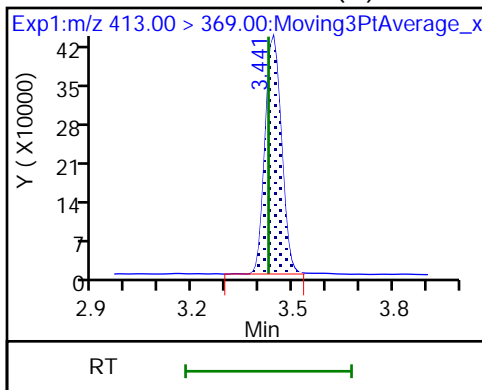
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

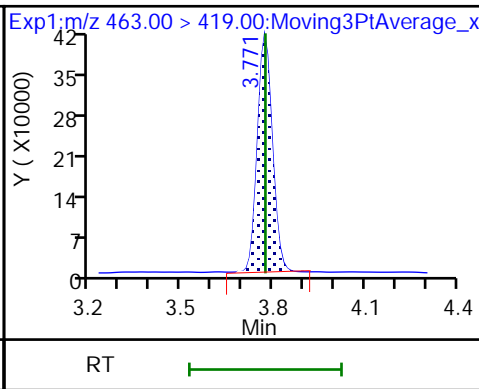
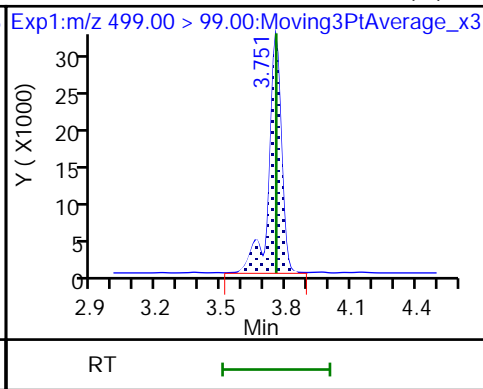
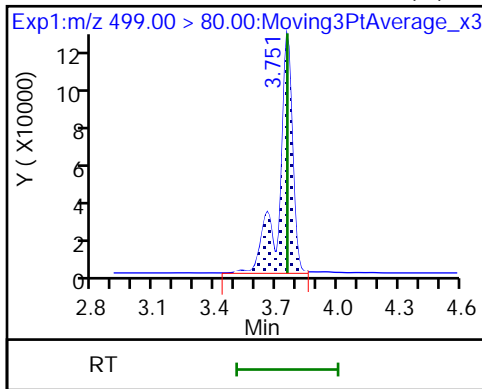
D 18 13C4 PFOS

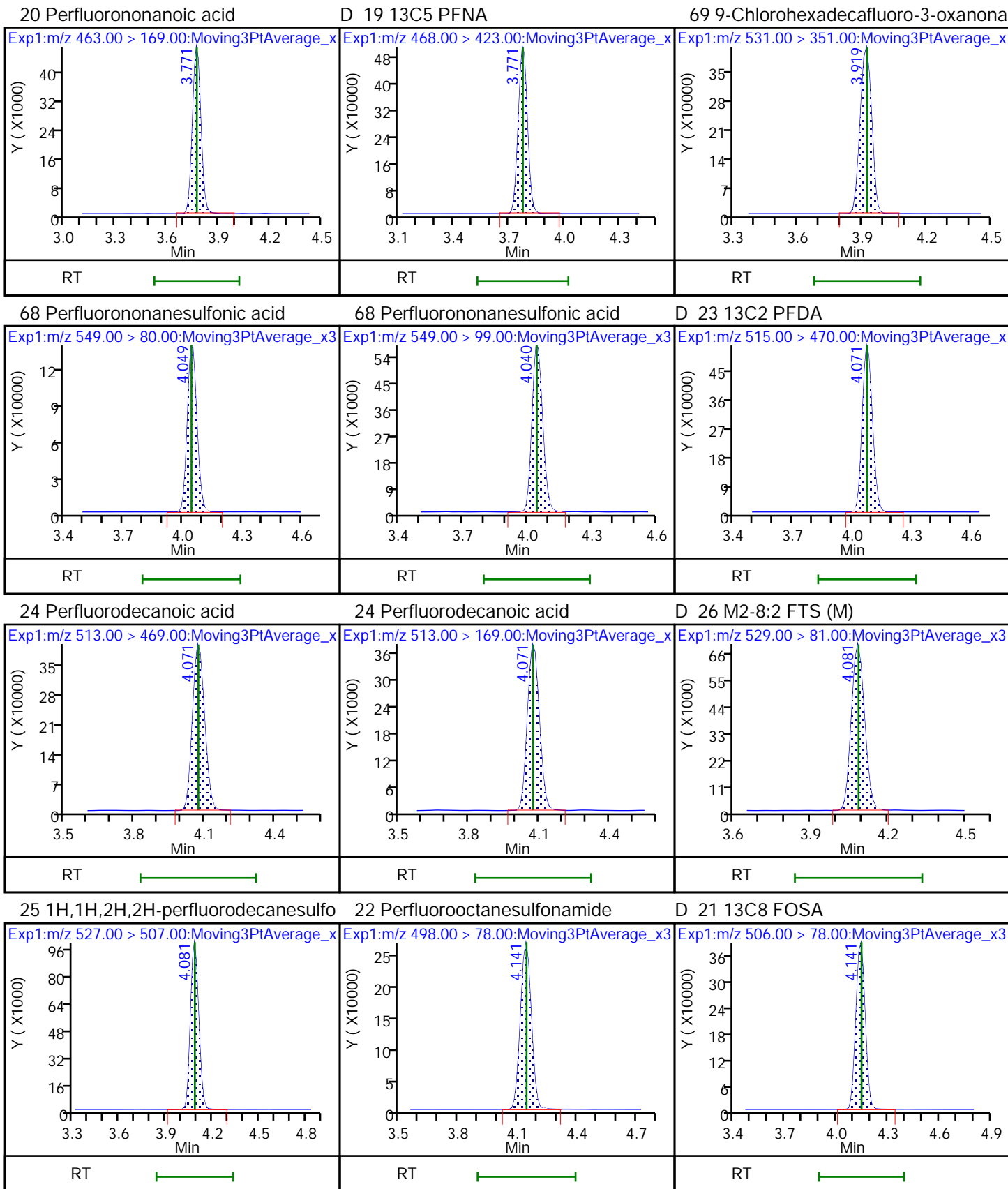


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

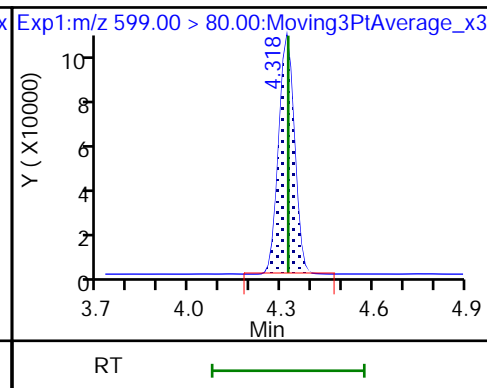
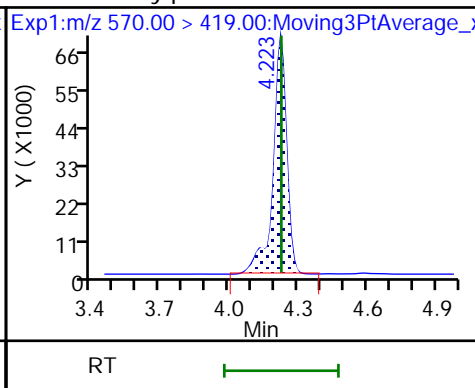
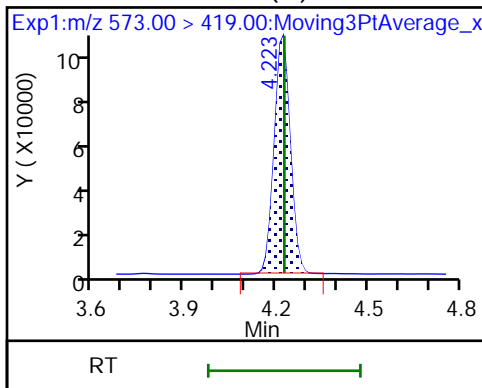




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

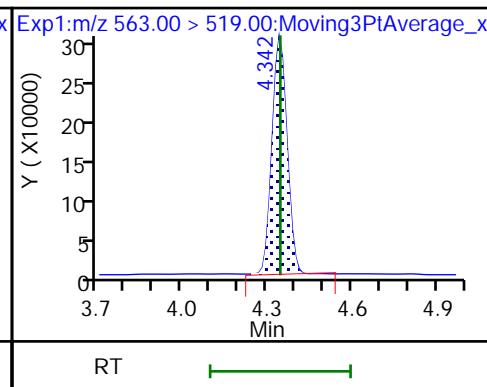
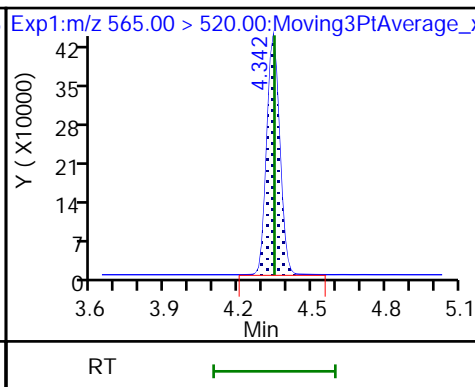
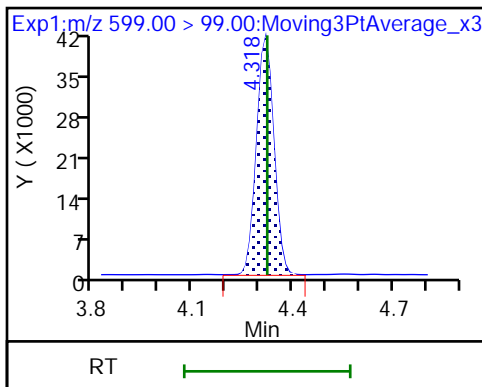
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

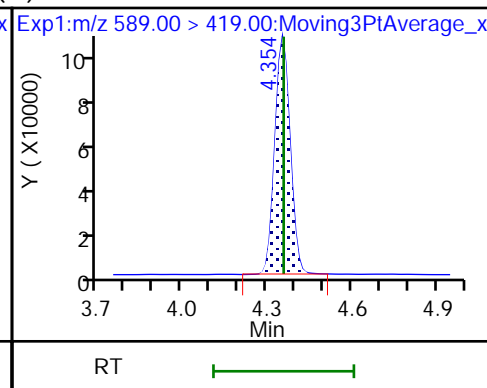
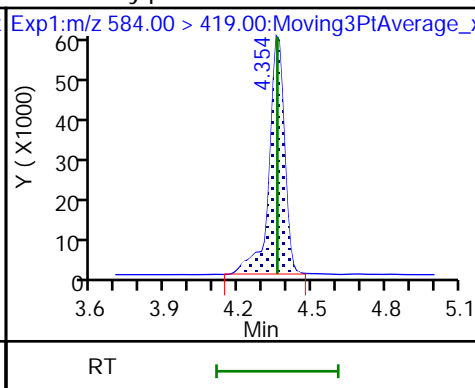
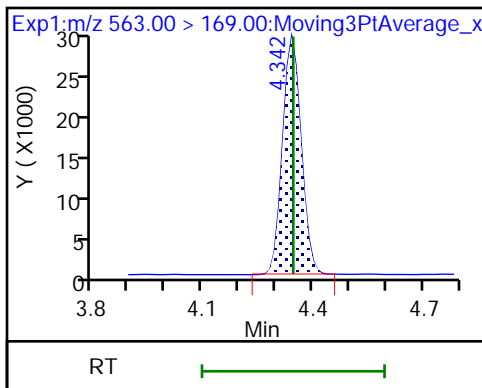
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

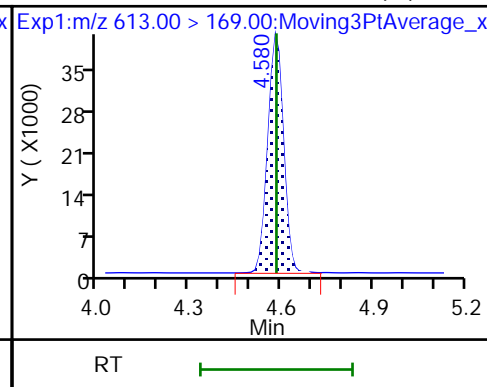
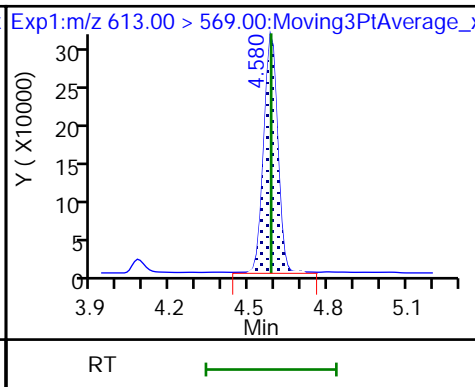
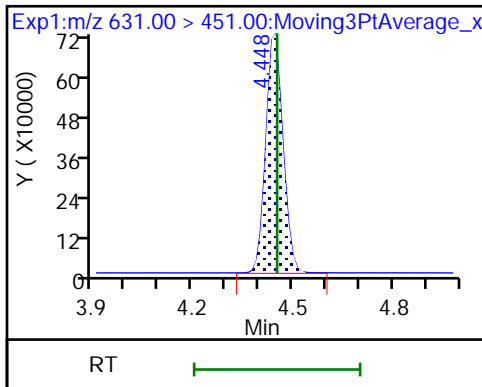
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

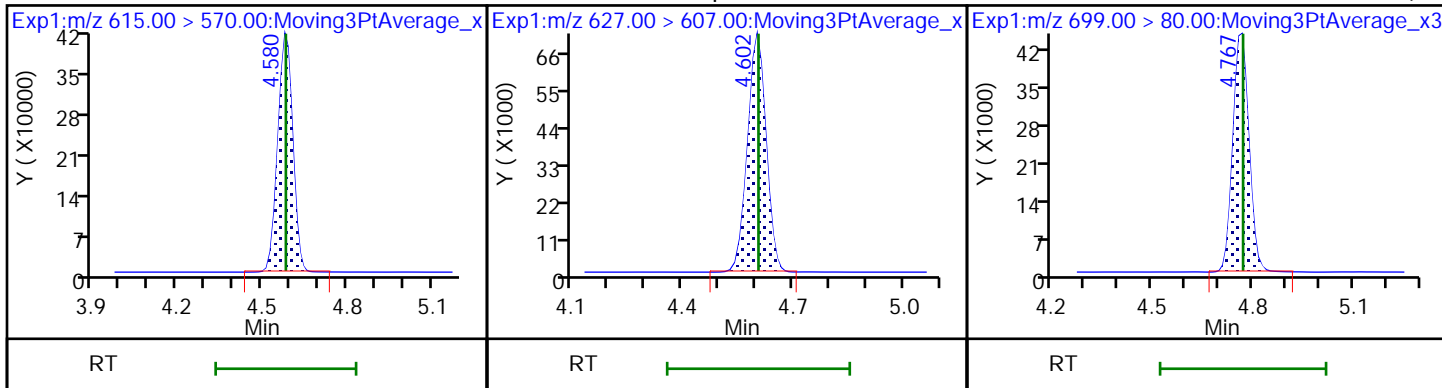
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDoA

74 1H,1H,2H,2H-perfluorododecanesul

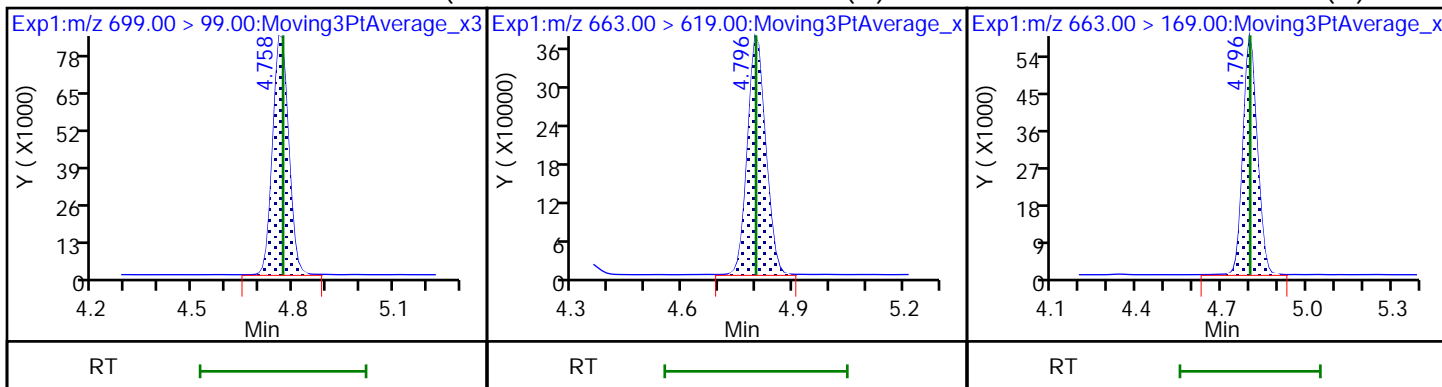
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

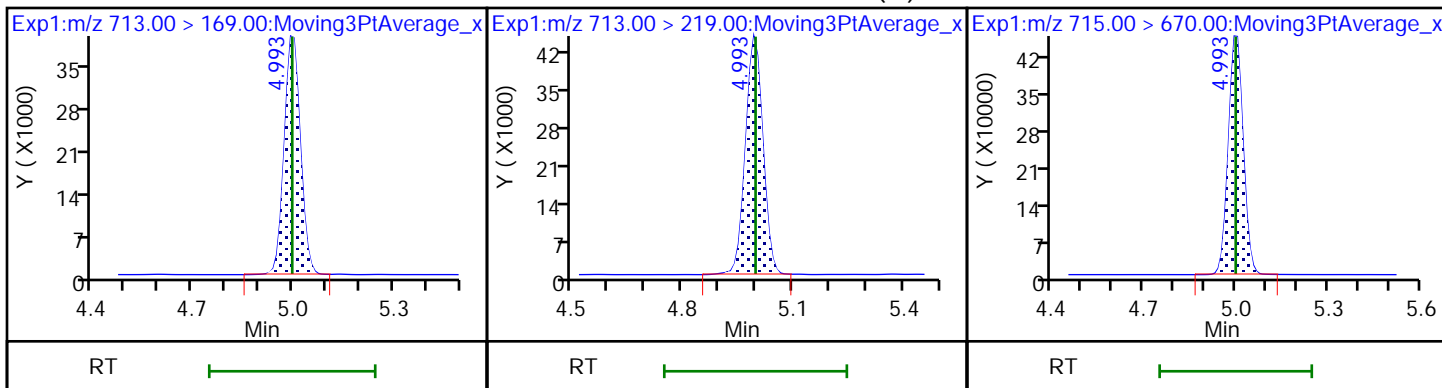
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

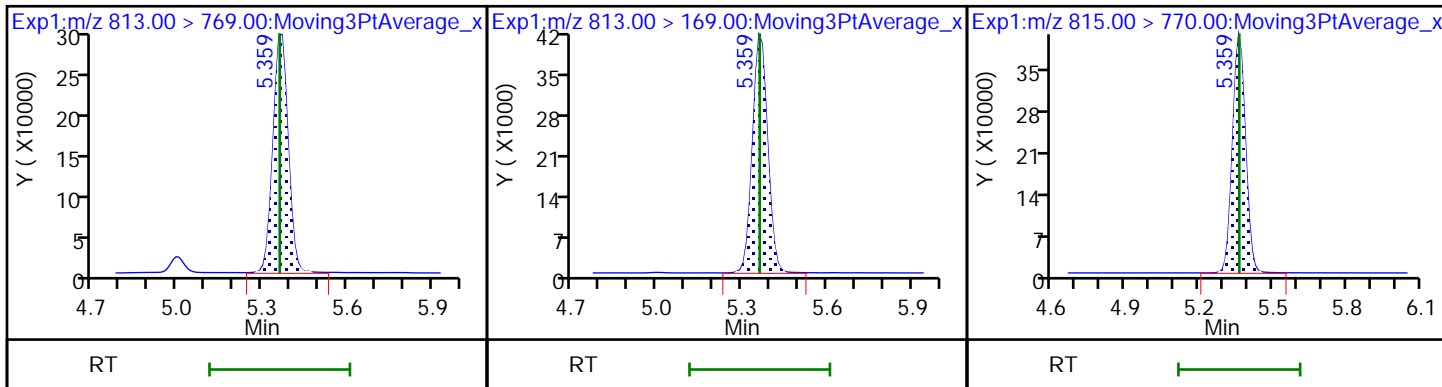
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

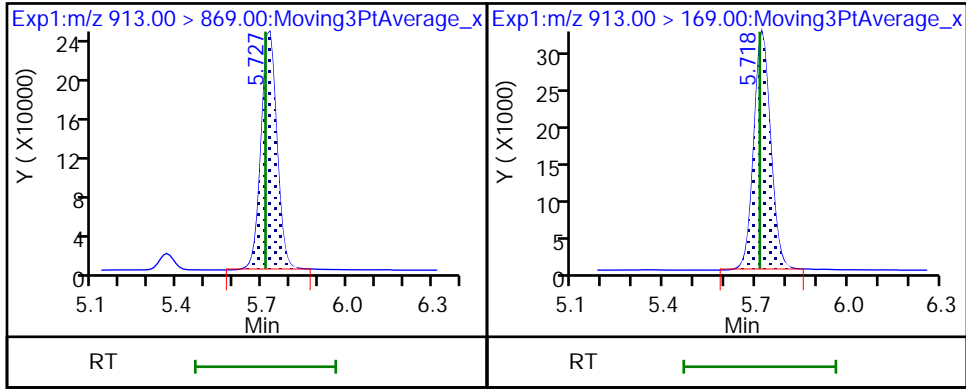
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

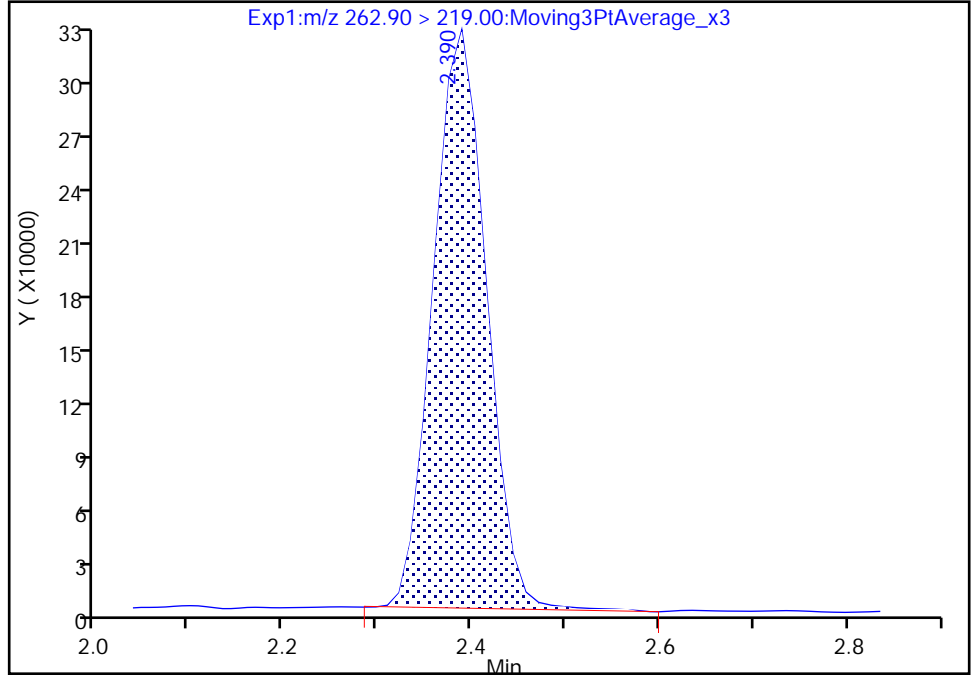
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Injection Date:	26-Jan-2023 22:21:31	Instrument ID:	LC812
Lims ID:	CCV L4		
Client ID:			
Operator ID:	LC812user	ALS Bottle#:	17
		Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

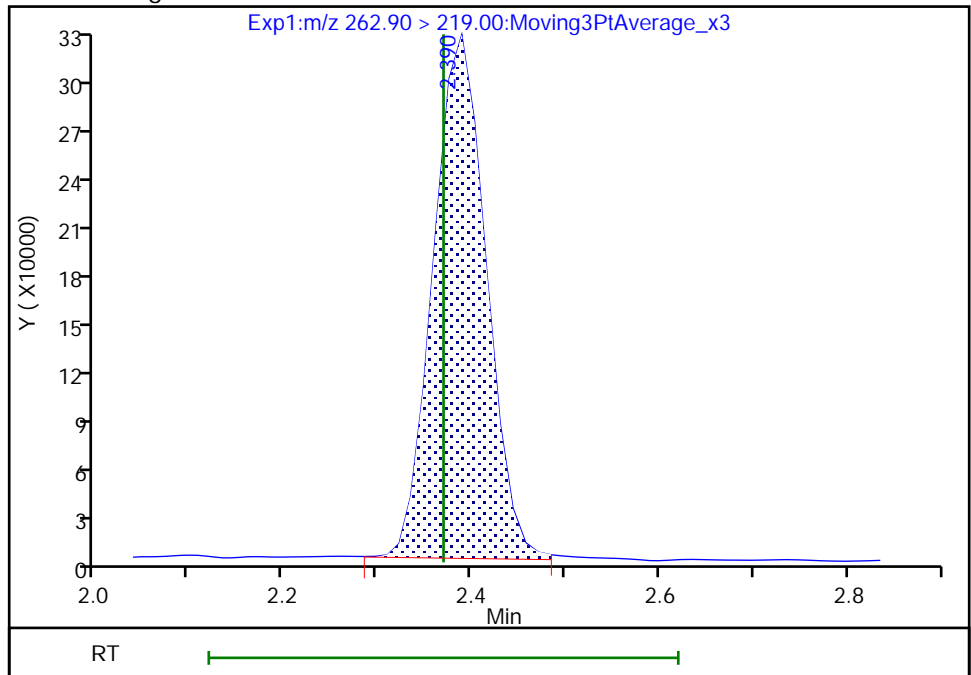
RT: 2.39
 Area: 1250757
 Amount: 0.810721
 Amount Units: ng/ml

Processing Integration Results



RT: 2.39
 Area: 1242960
 Amount: 0.805667
 Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:02:46
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

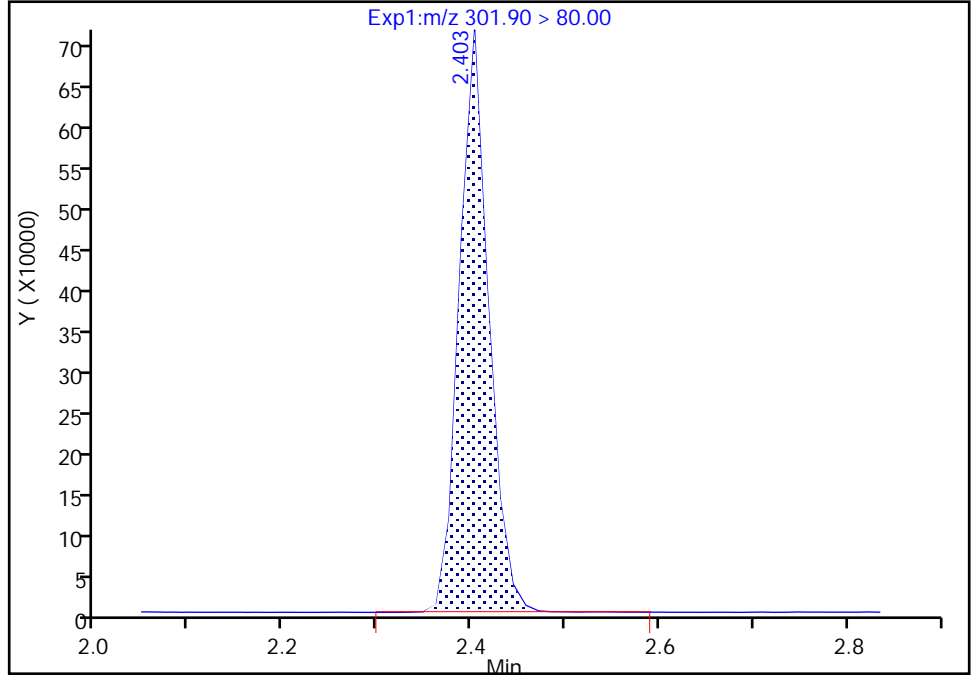
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337
Signal: 1

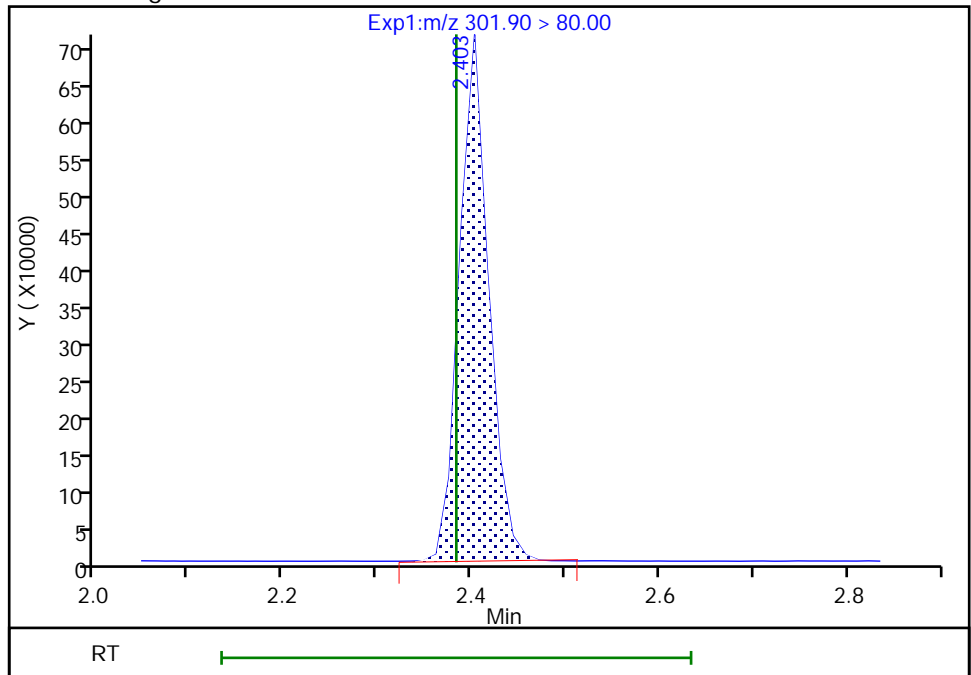
Processing Integration Results

RT: 2.40
Area: 1549638
Amount: 1.151885
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 1546829
Amount: 1.149797
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:36:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

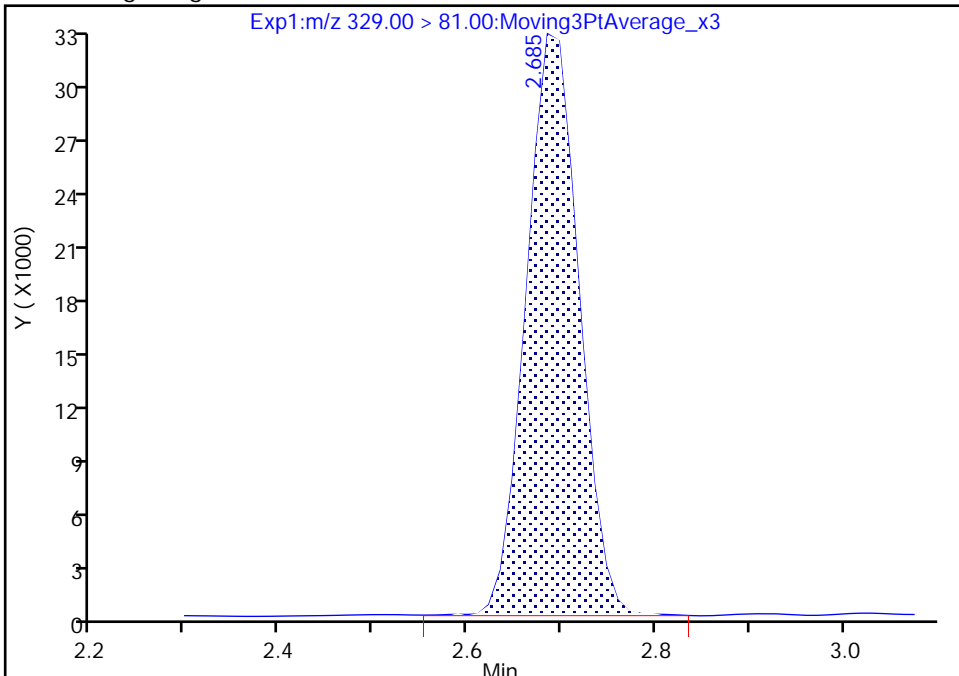
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

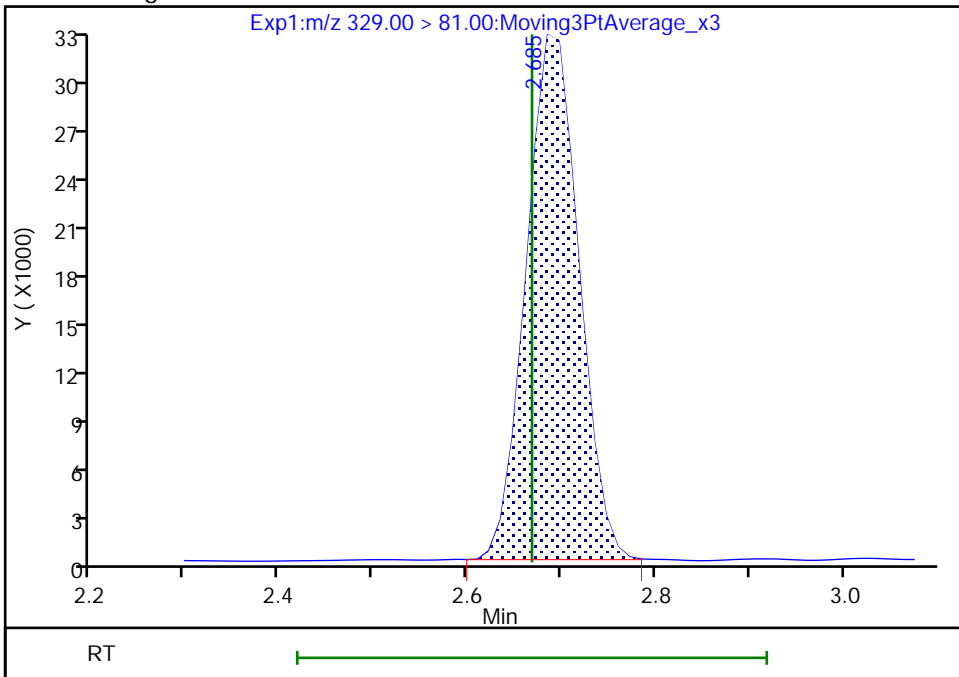
RT: 2.68
Area: 125446
Amount: 1.153284
Amount Units: ng/ml

Processing Integration Results



RT: 2.68
Area: 125295
Amount: 1.151895
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

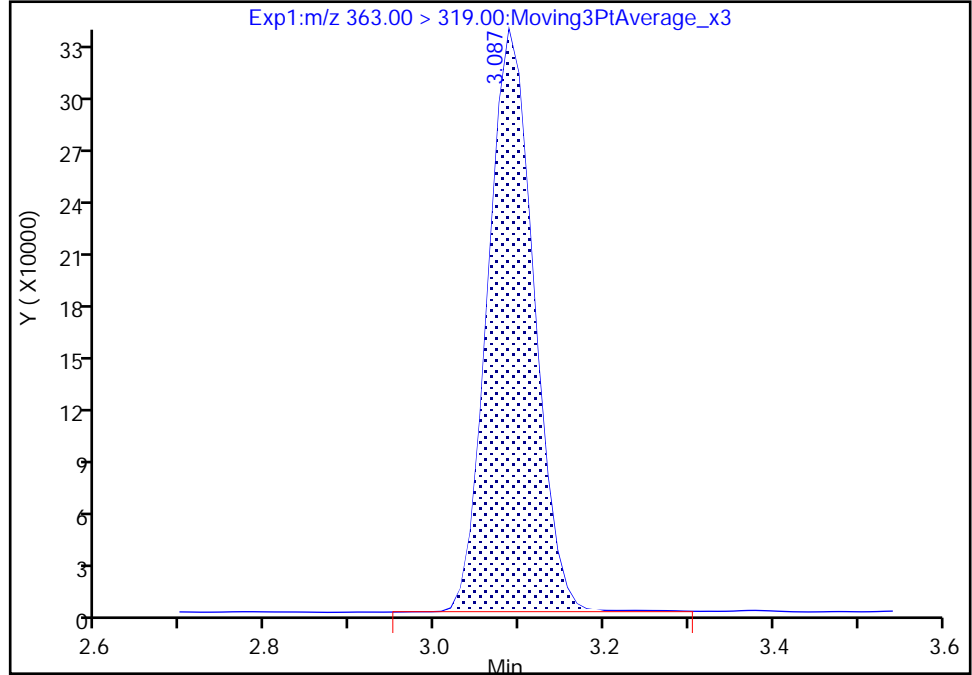
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

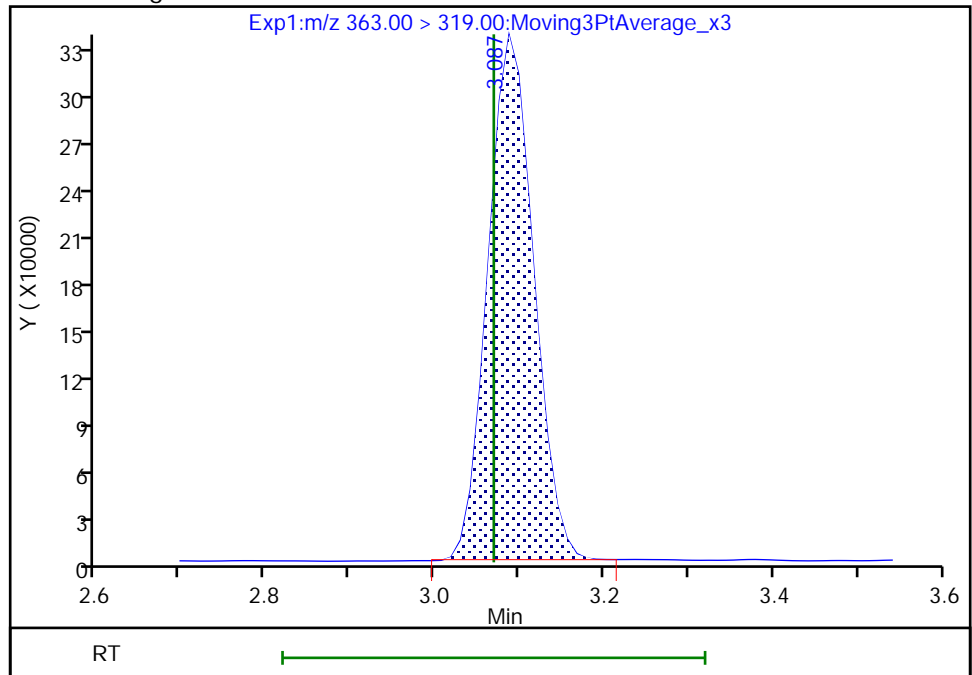
RT: 3.09
Area: 1249056
Amount: 0.895707
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1238099
Amount: 0.887850
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

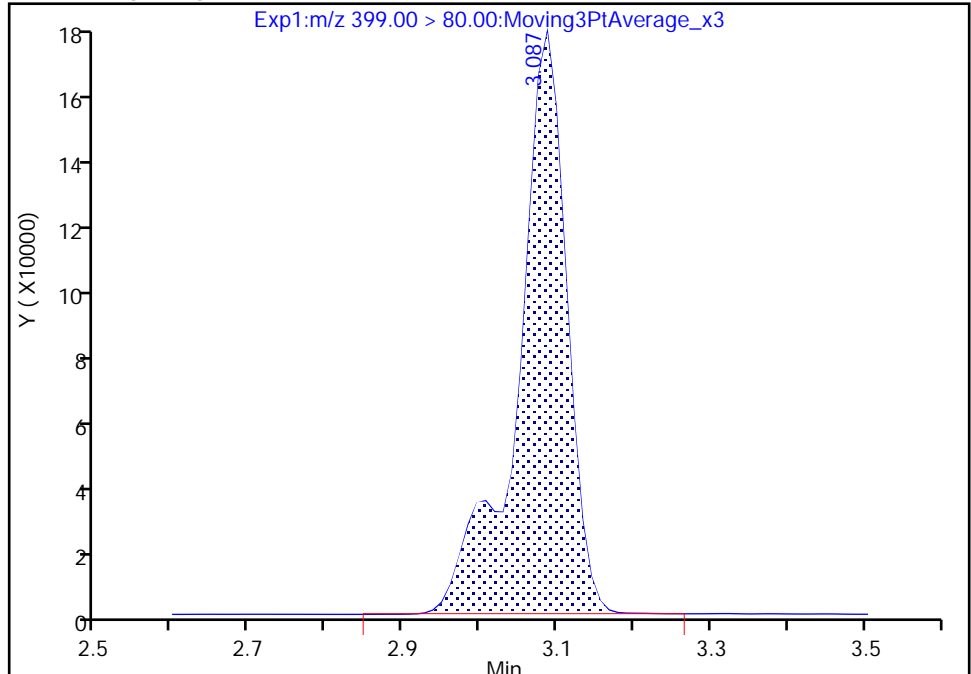
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

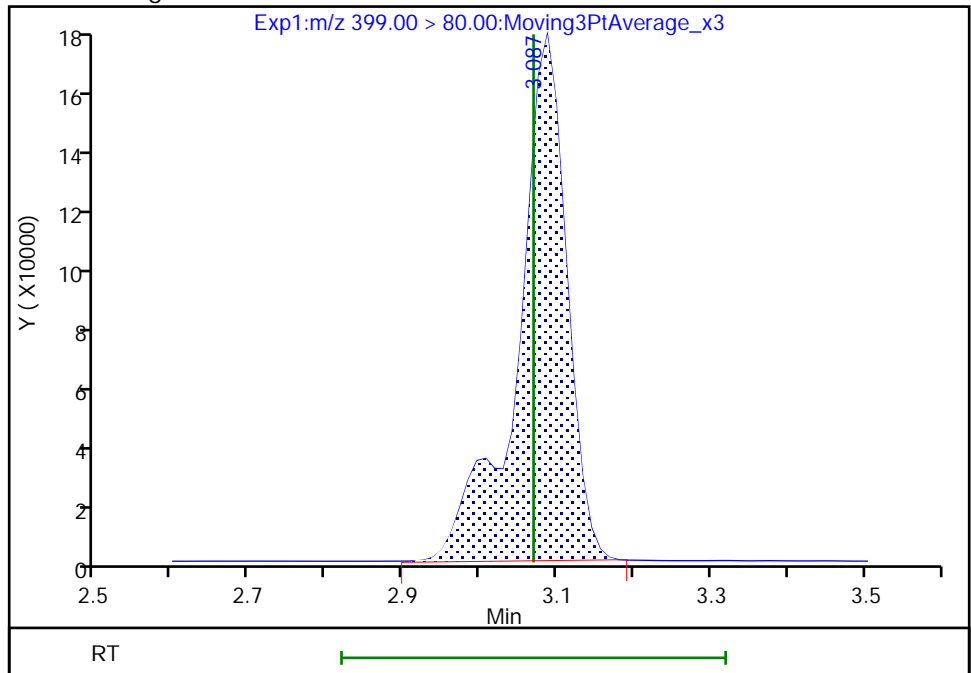
RT: 3.09
Area: 754008
Amount: 0.811869
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 753351
Amount: 0.811162
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

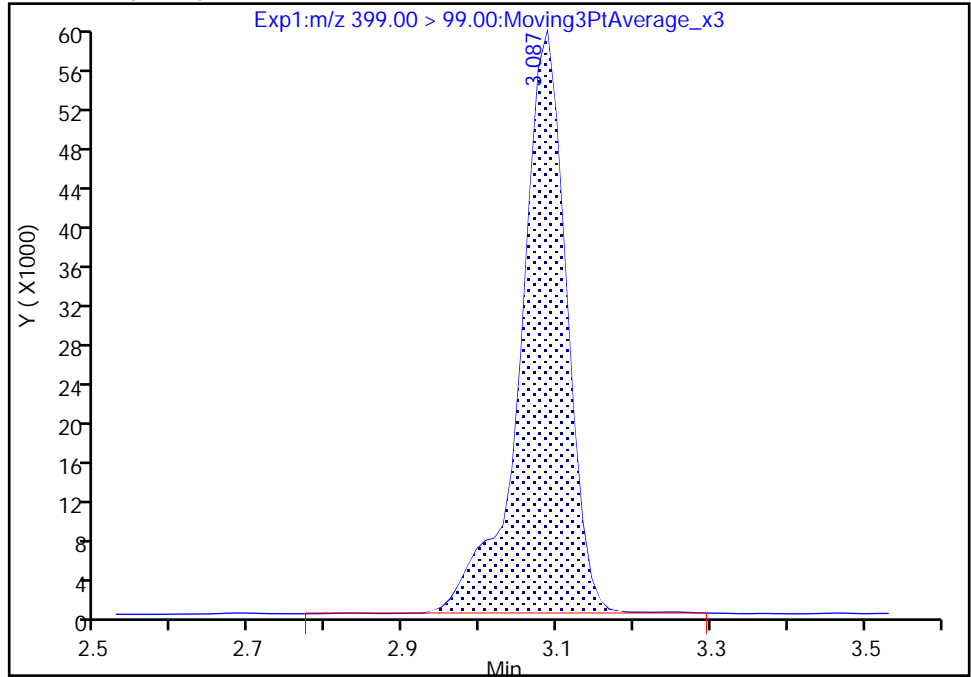
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

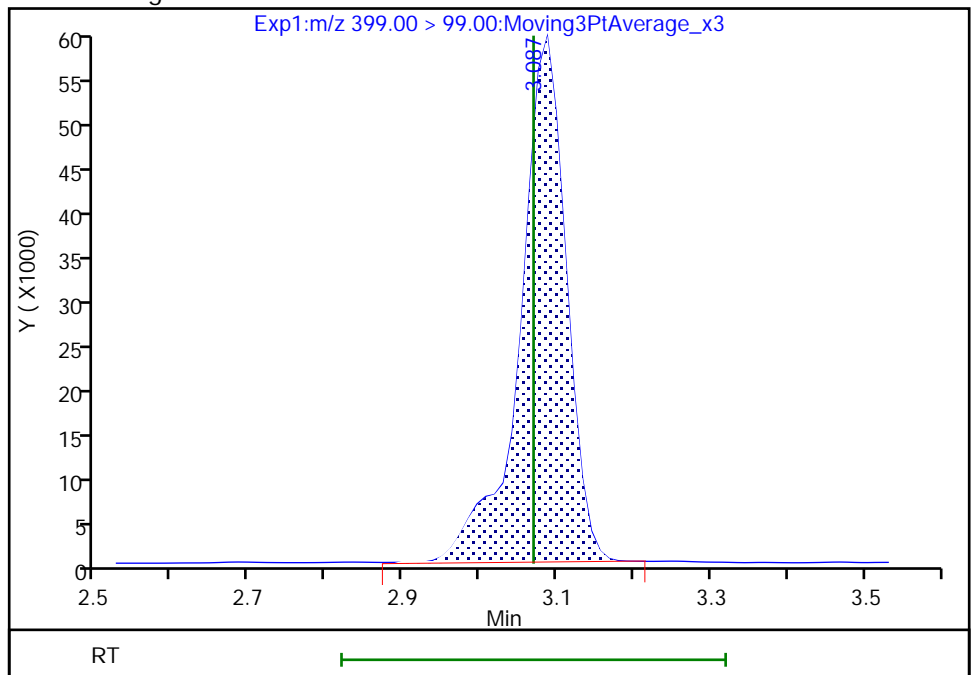
RT: 3.09
Area: 247789
Amount: 0.811869
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 246157
Amount: 0.811162
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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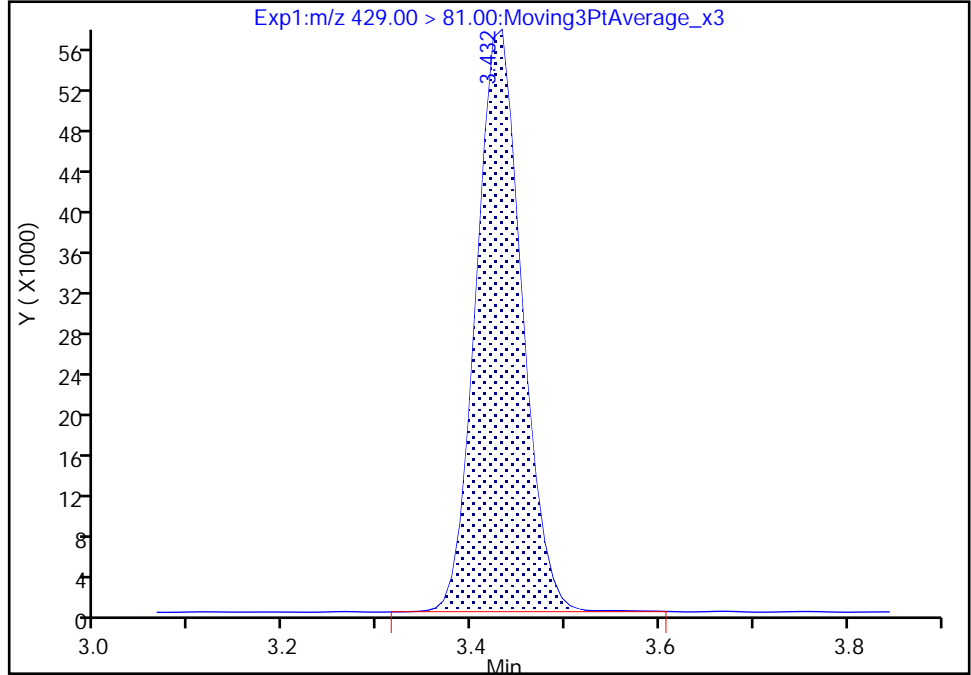
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 12 M2-6:2 FTS, CAS: STL02279
Signal: 1

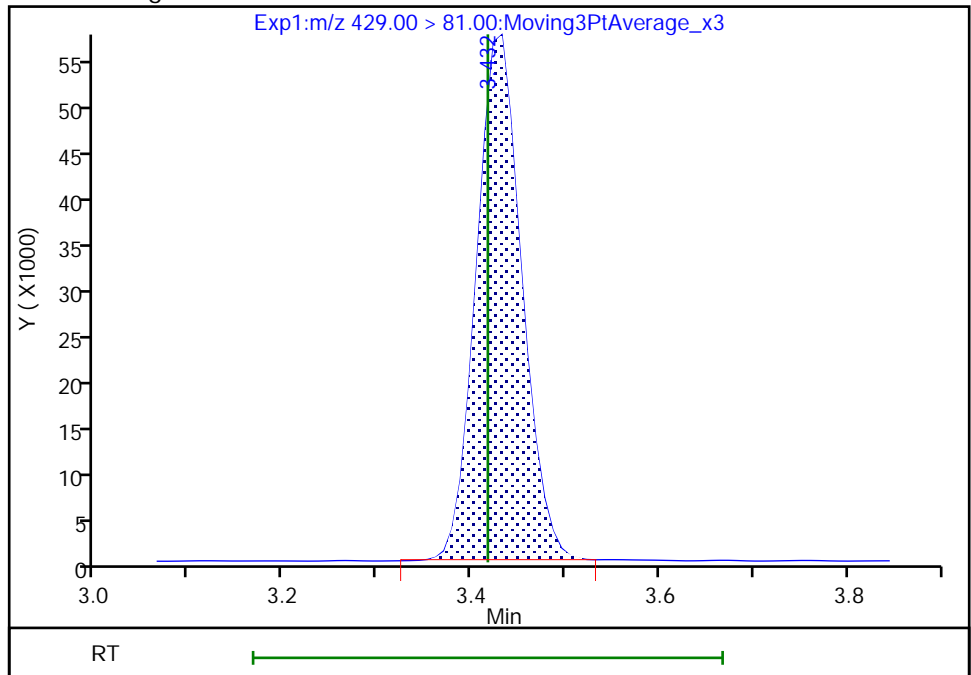
RT: 3.43
Area: 194619
Amount: 1.261261
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 193771
Amount: 1.255766
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

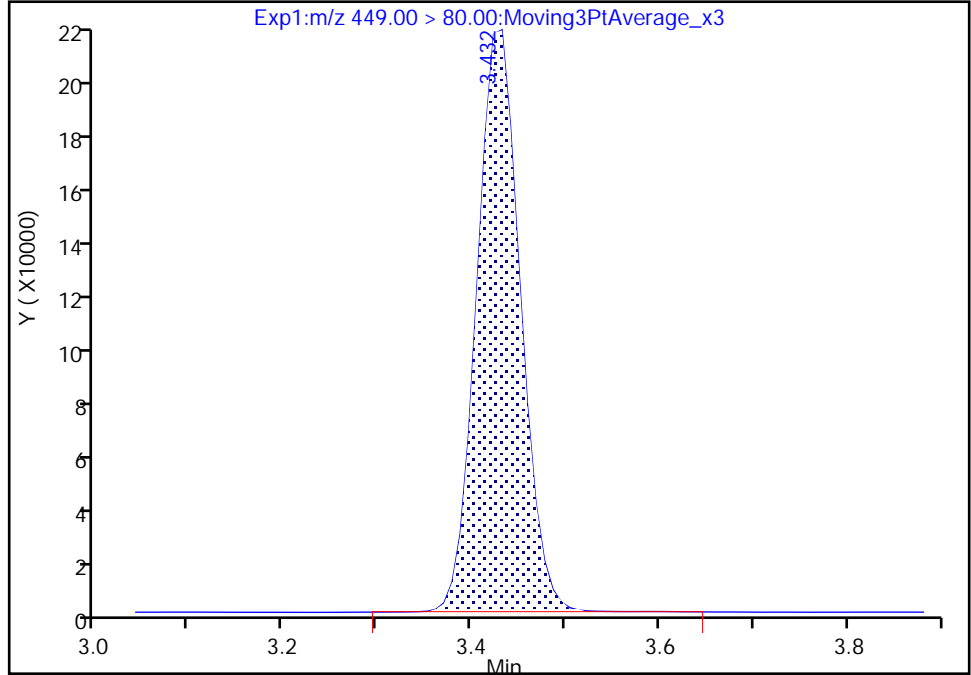
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

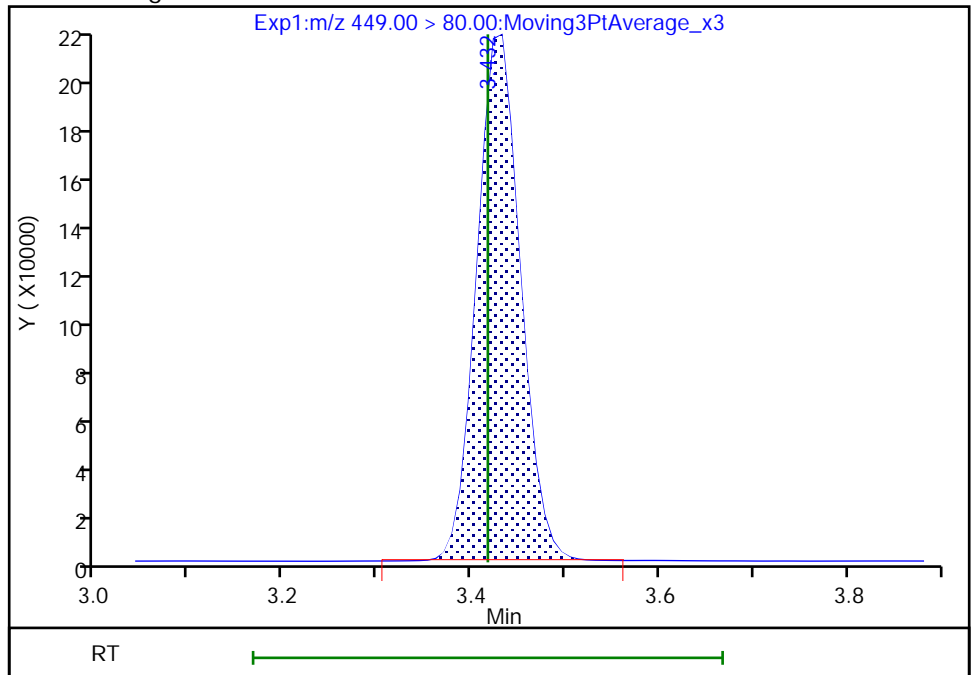
RT: 3.43
Area: 704480
Amount: 0.882737
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 702671
Amount: 0.880470
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

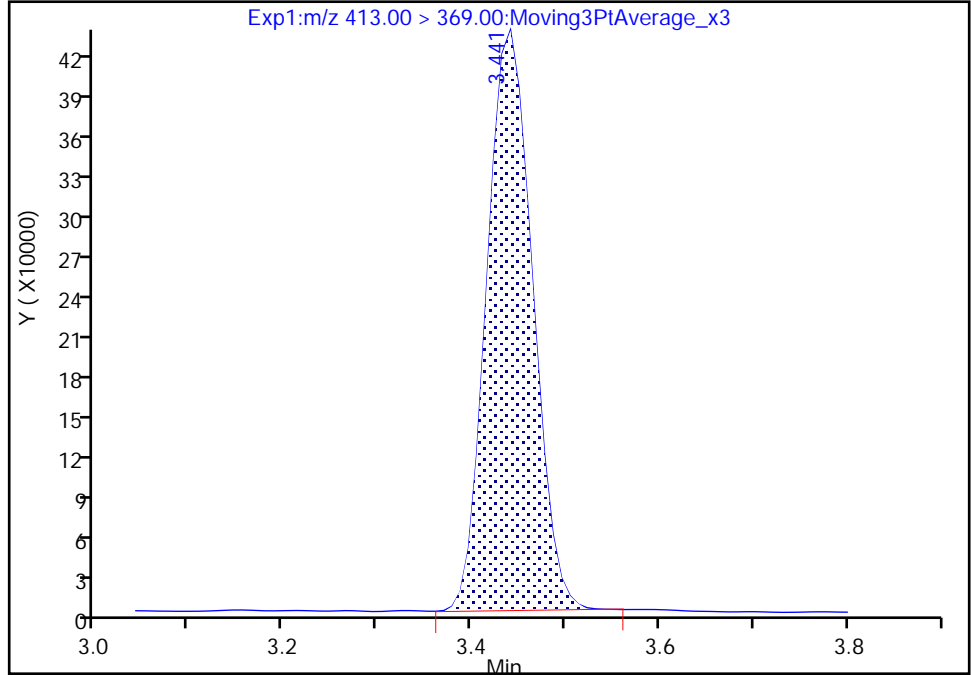
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

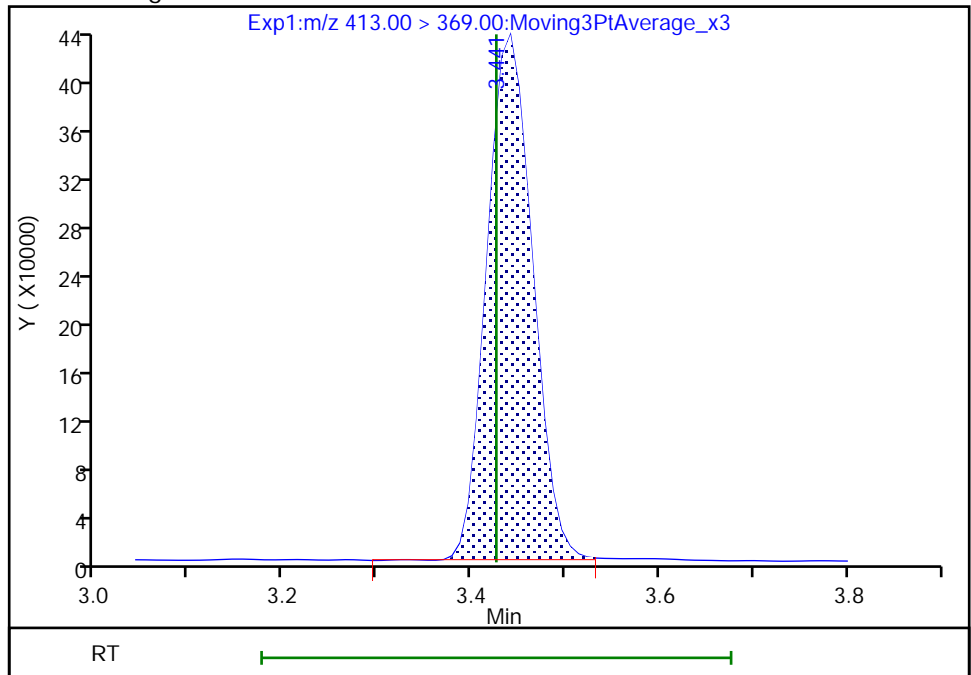
RT: 3.44
Area: 1472245
Amount: 0.995097
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1480024
Amount: 1.000355
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

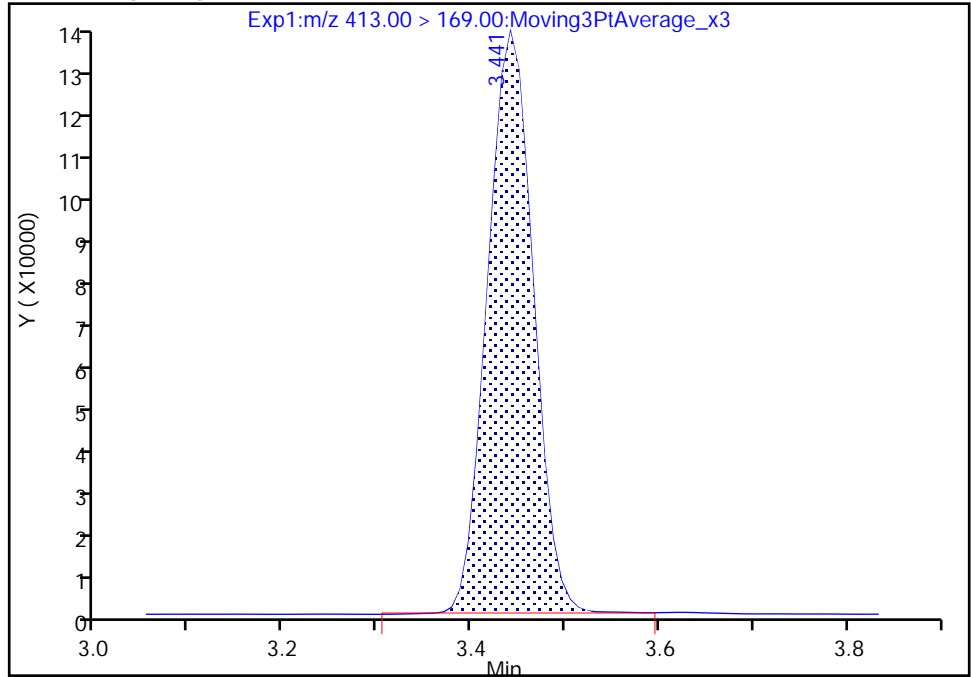
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

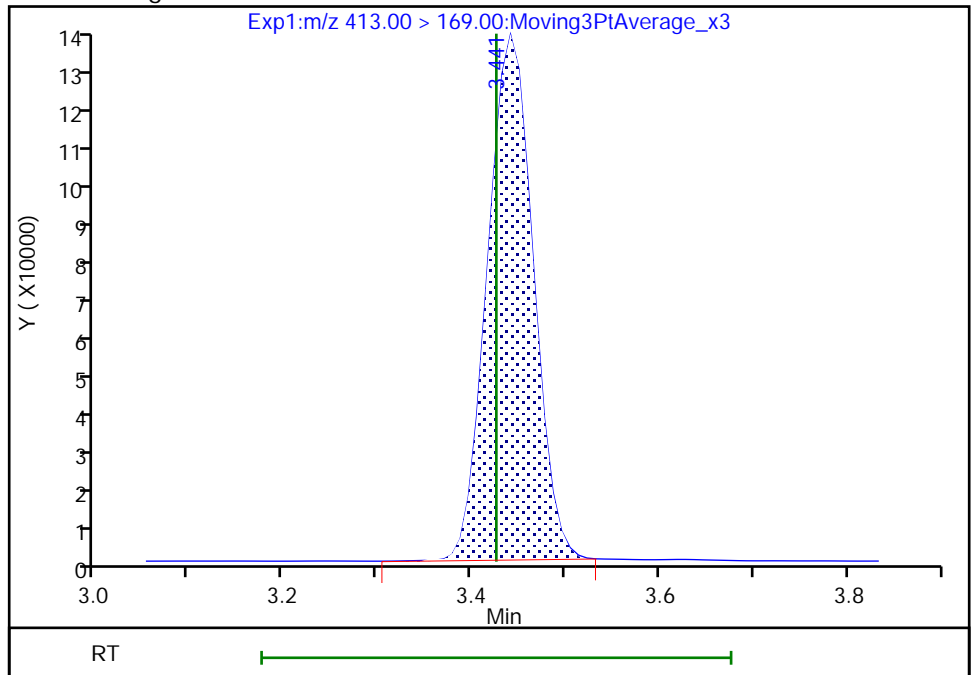
RT: 3.44
Area: 470179
Amount: 0.995097
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 469635
Amount: 1.000355
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

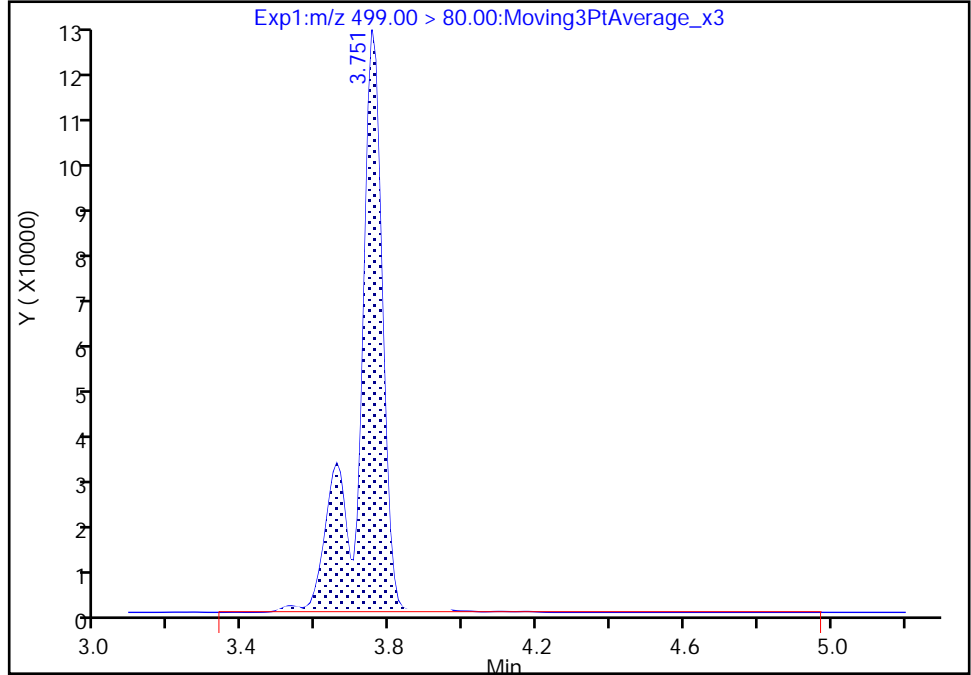
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

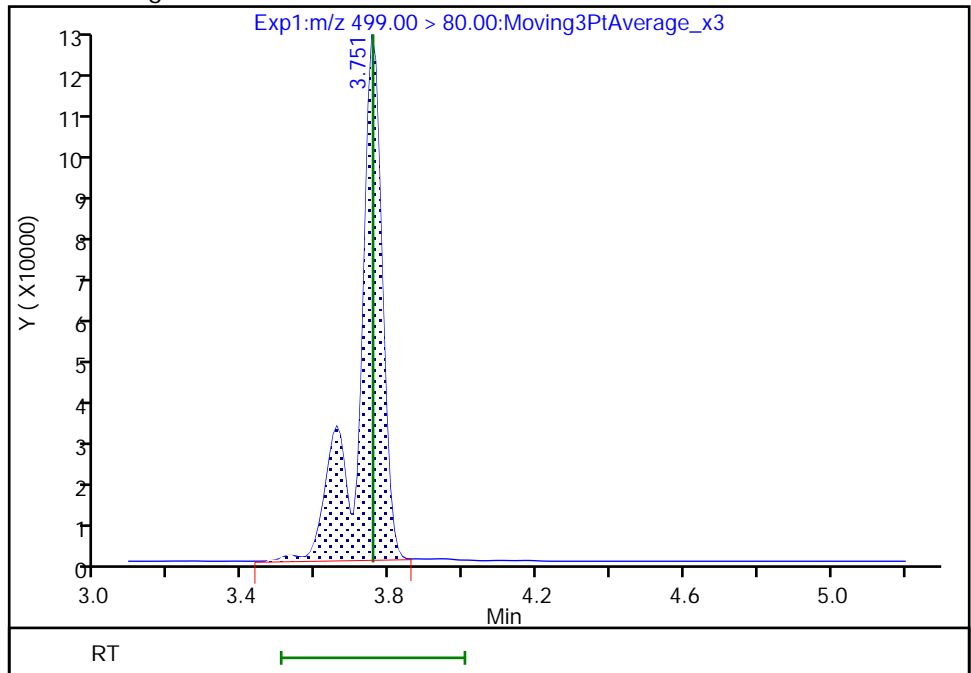
RT: 3.75
Area: 587486
Amount: 0.881748
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 579350
Amount: 0.869536
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:34:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

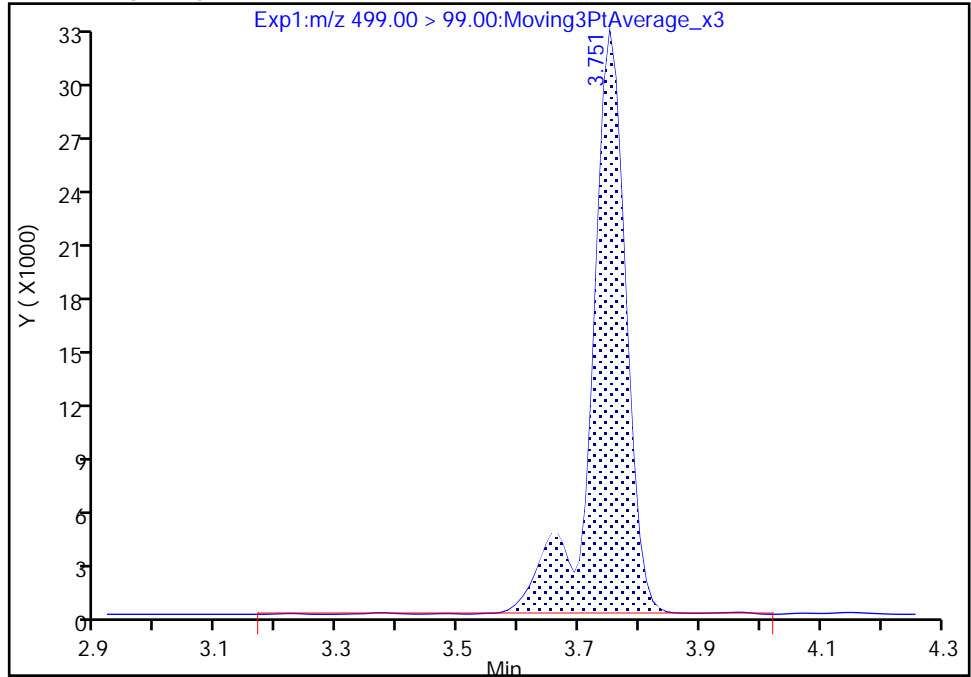
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

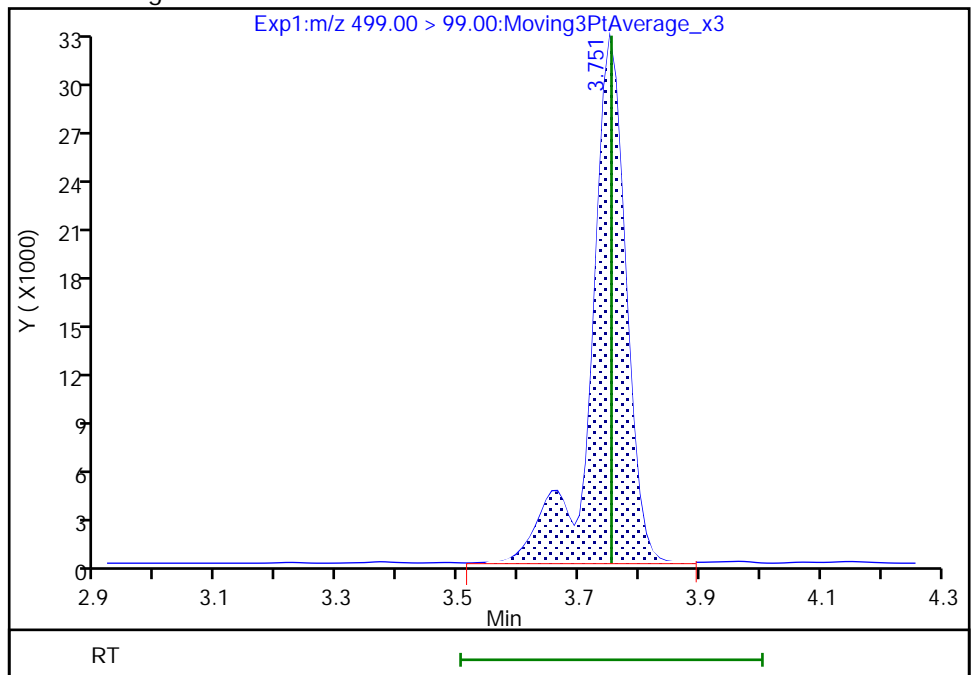
Processing Integration Results

RT: 3.75
Area: 130980
Amount: 0.881748
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 129723
Amount: 0.869536
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 10:34:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

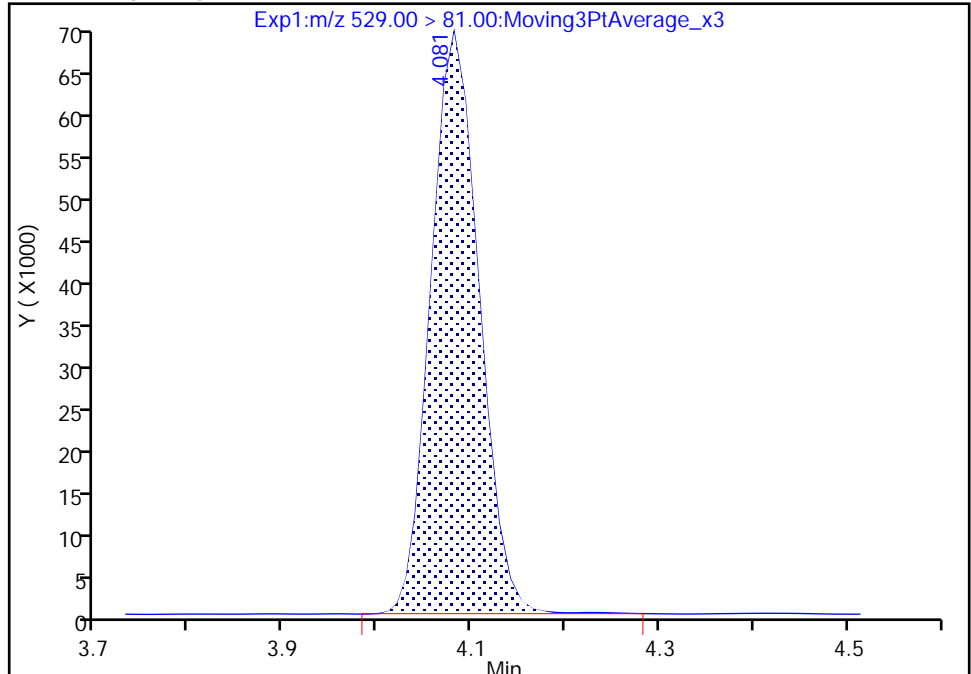
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 26 M2-8:2 FTS, CAS: STL02280
Signal: 1

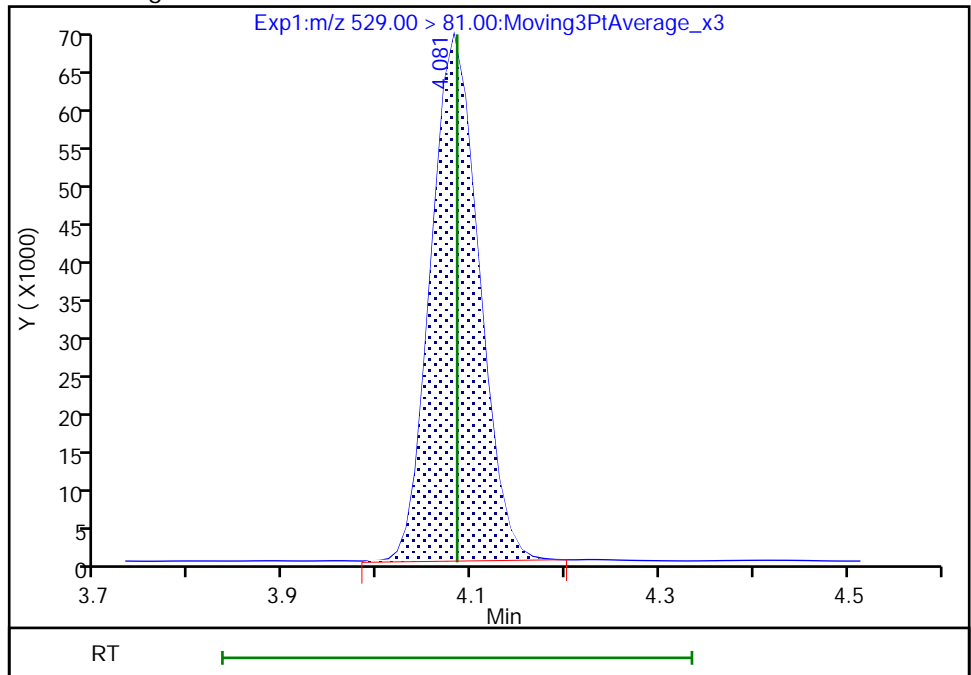
RT: 4.08
Area: 246401
Amount: 1.274590
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 245242
Amount: 1.268595
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

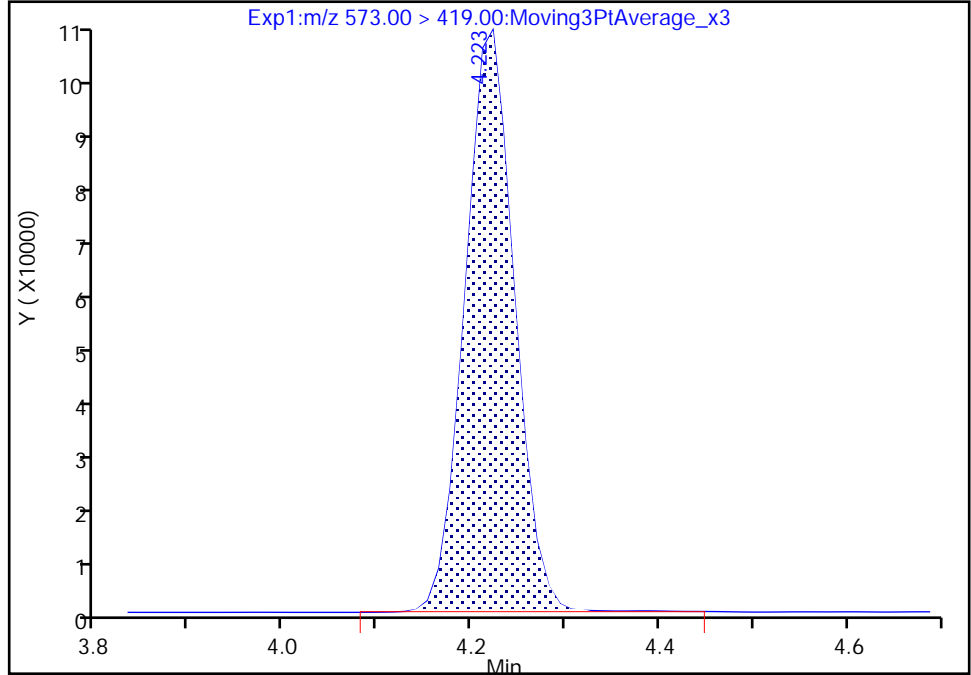
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

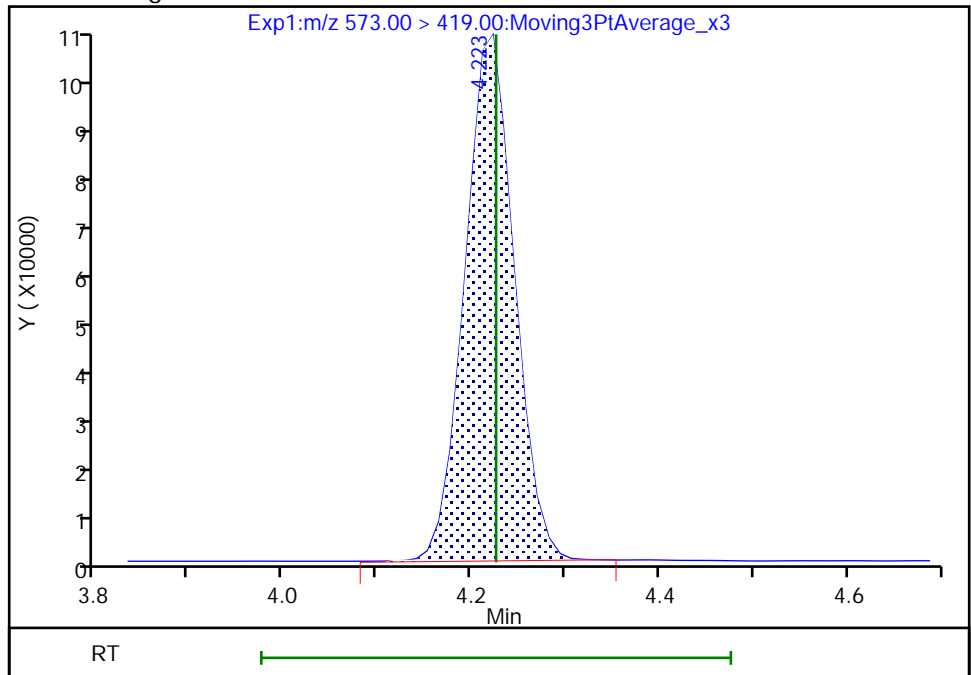
RT: 4.22
Area: 391107
Amount: 1.473832
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 389634
Amount: 1.468281
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

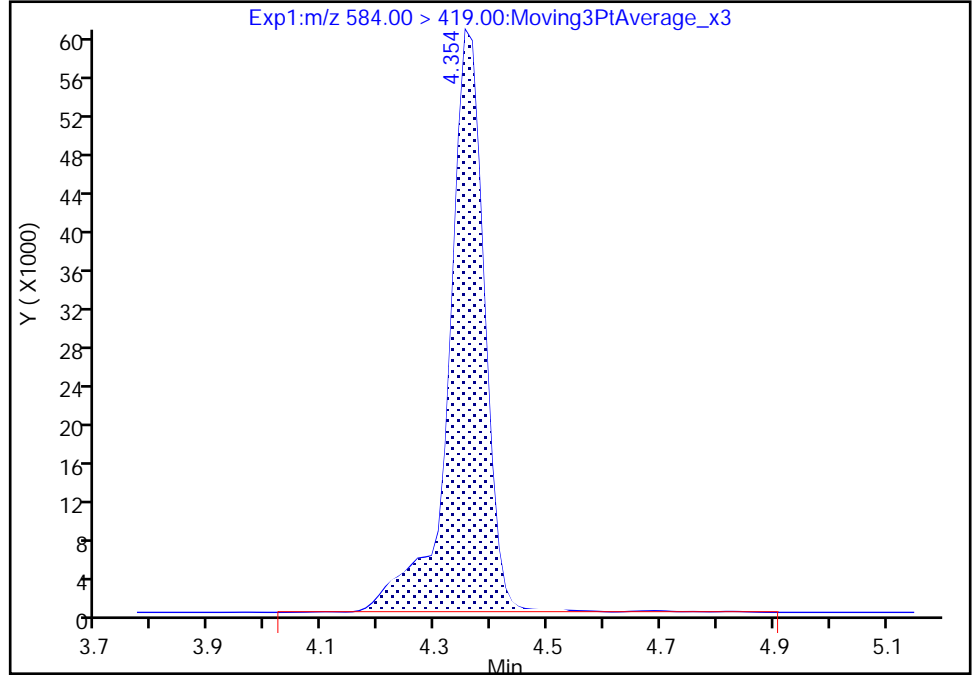
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

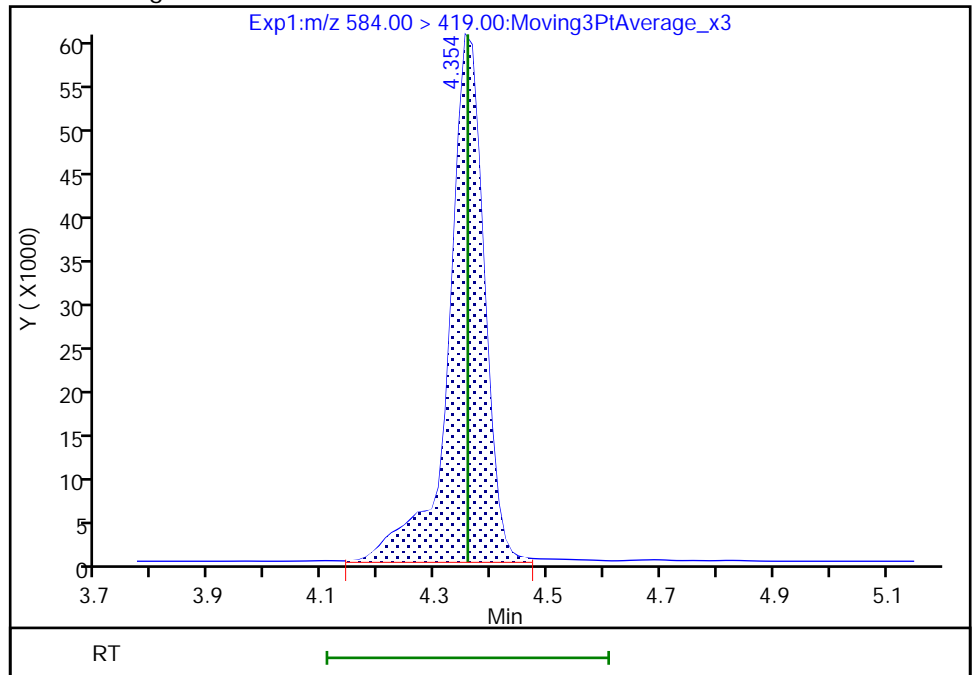
RT: 4.35
Area: 269569
Amount: 0.920012
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 266245
Amount: 0.908667
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:04:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

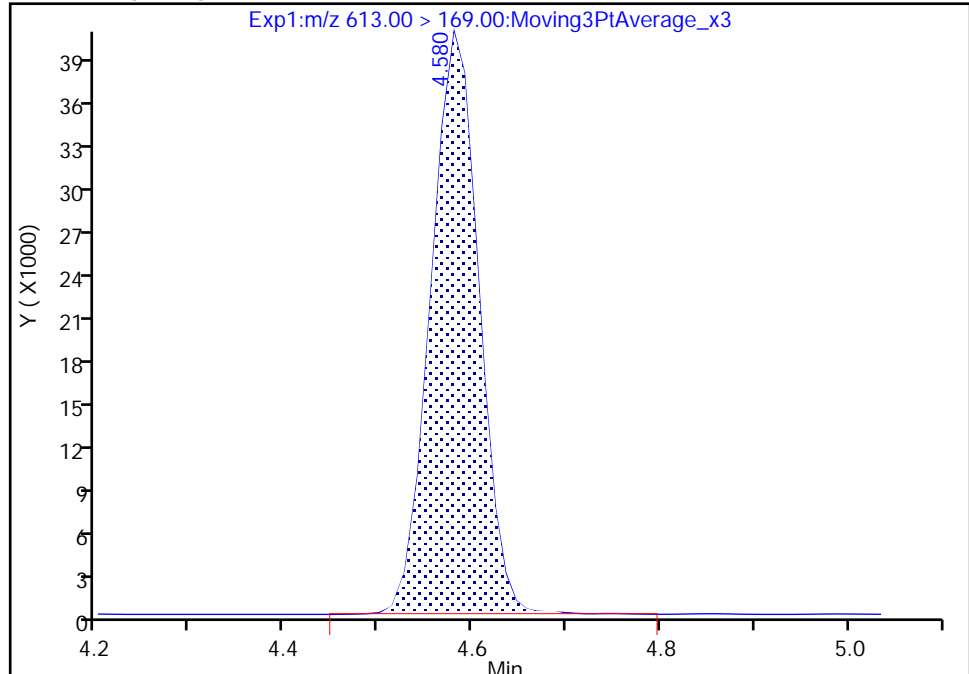
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

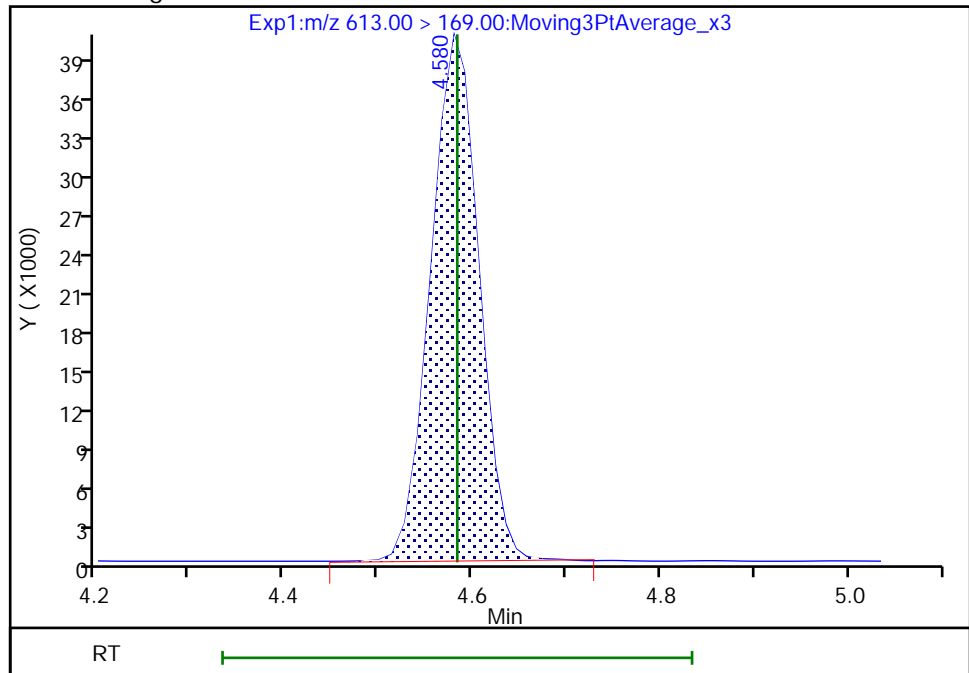
RT: 4.58
Area: 144405
Amount: 0.905429
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 143962
Amount: 0.905429
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:04:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

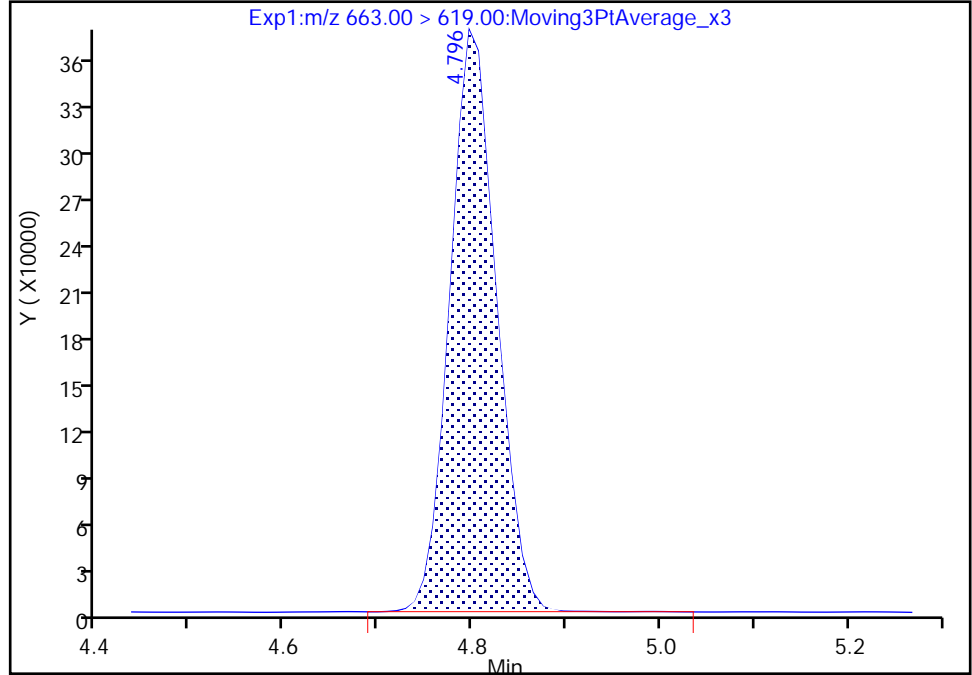
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

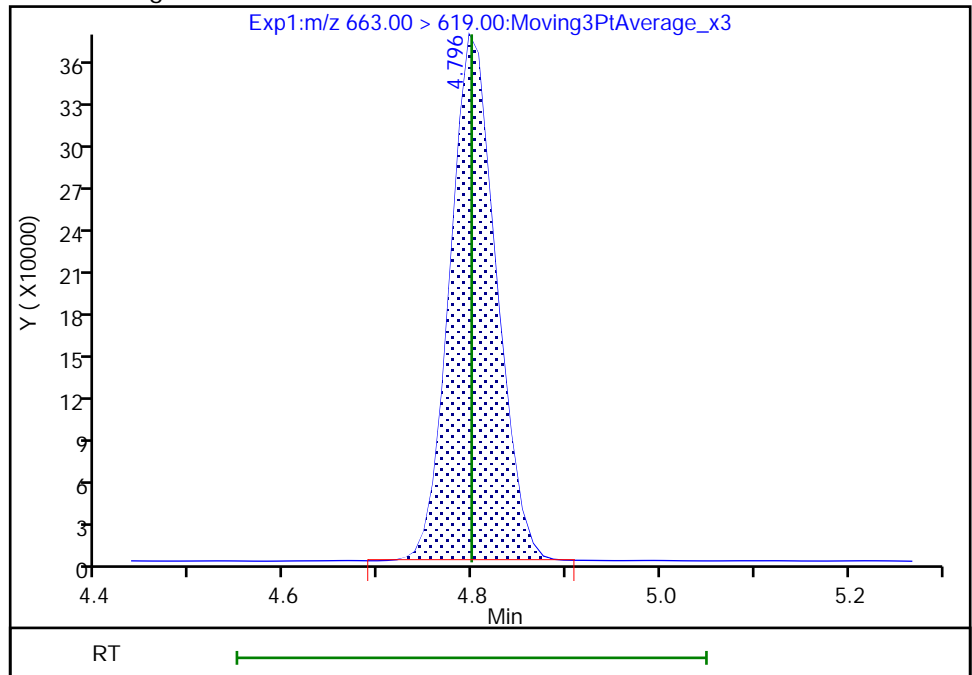
RT: 4.80
Area: 1291991
Amount: 1.036216
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 1287990
Amount: 1.033007
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:04:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

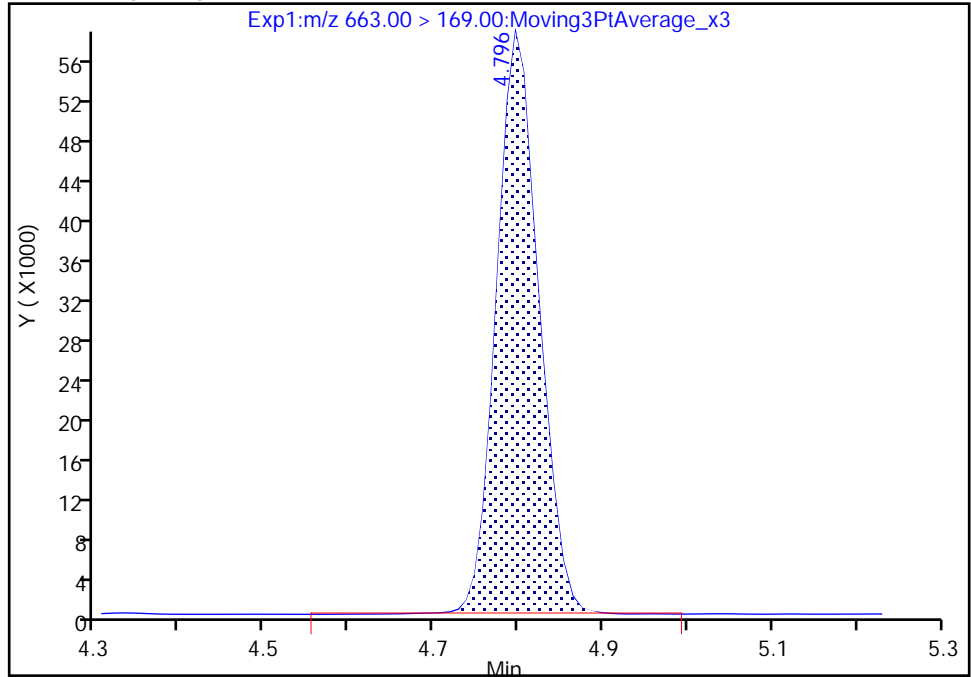
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

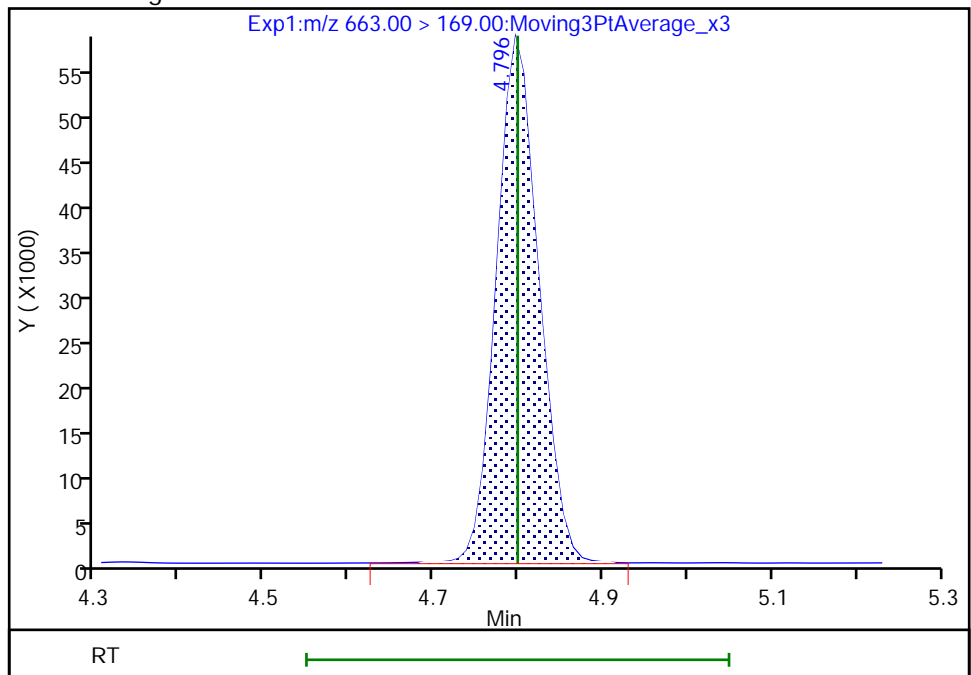
RT: 4.80
Area: 202695
Amount: 1.036216
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 202250
Amount: 1.033007
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

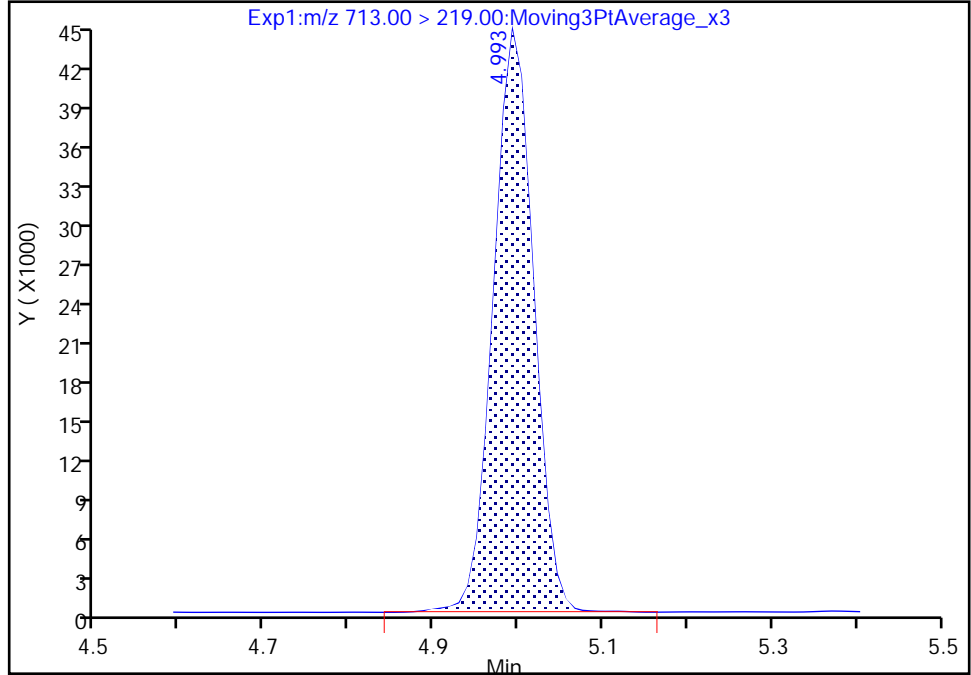
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

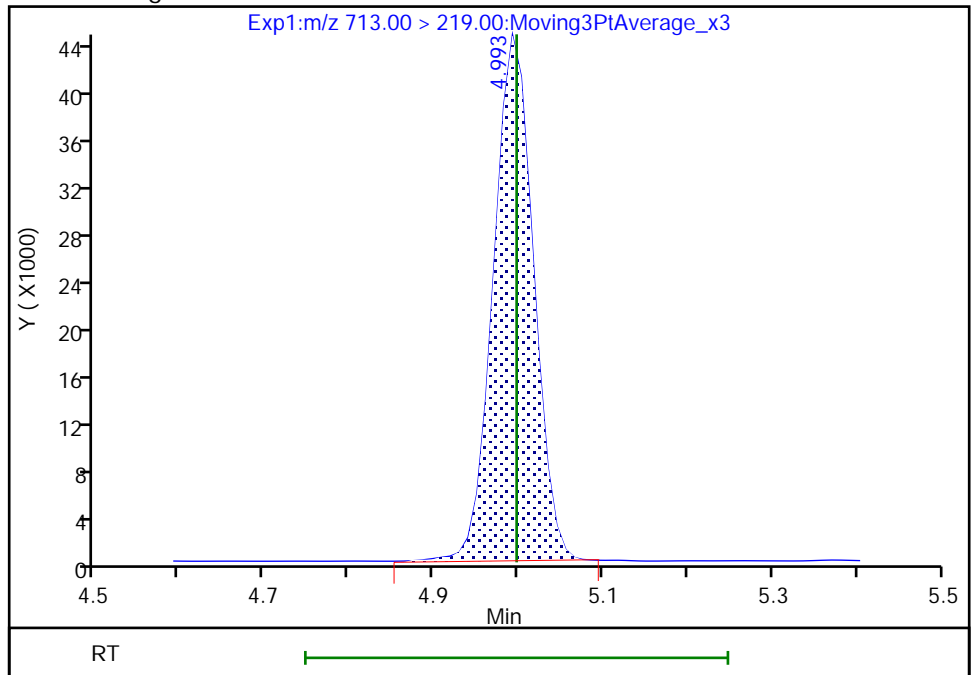
RT: 4.99
Area: 146077
Amount: 0.859589
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 145398
Amount: 0.859589
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

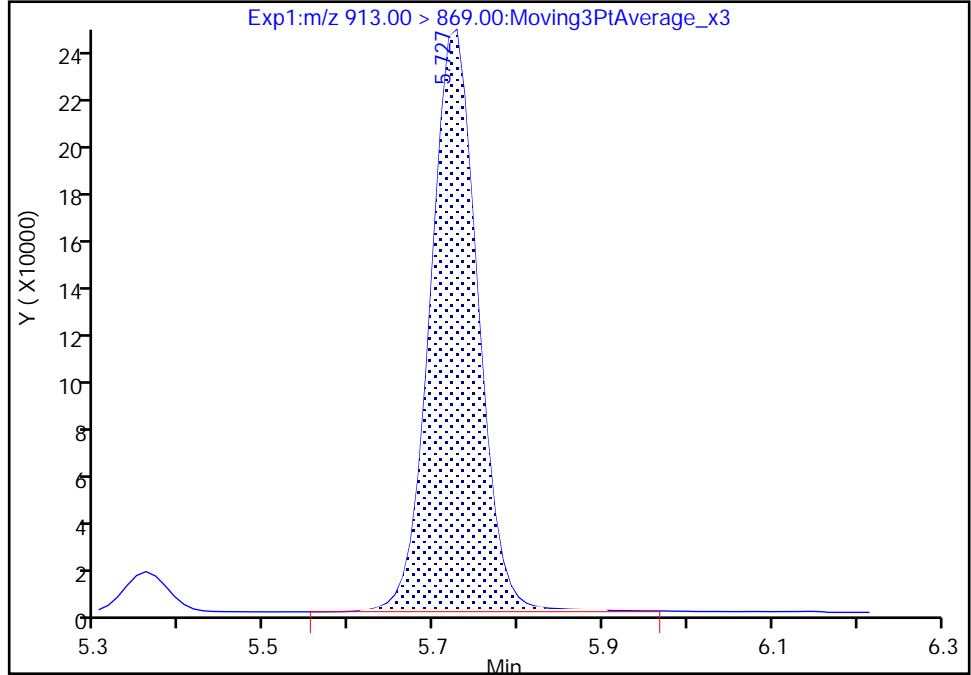
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

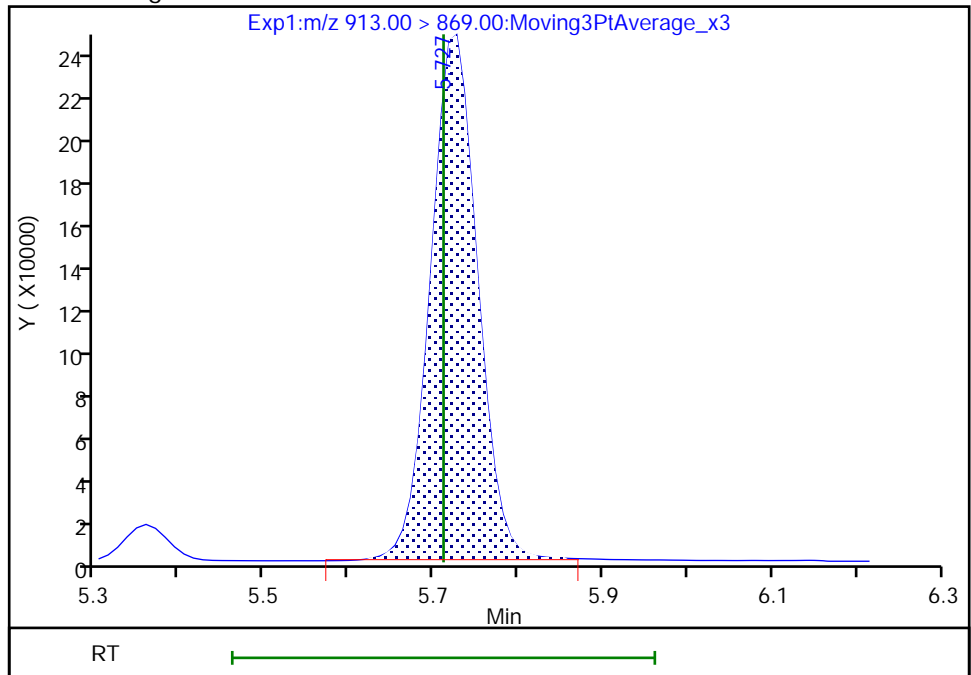
RT: 5.73
Area: 960229
Amount: 0.984317
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 952353
Amount: 0.976244
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

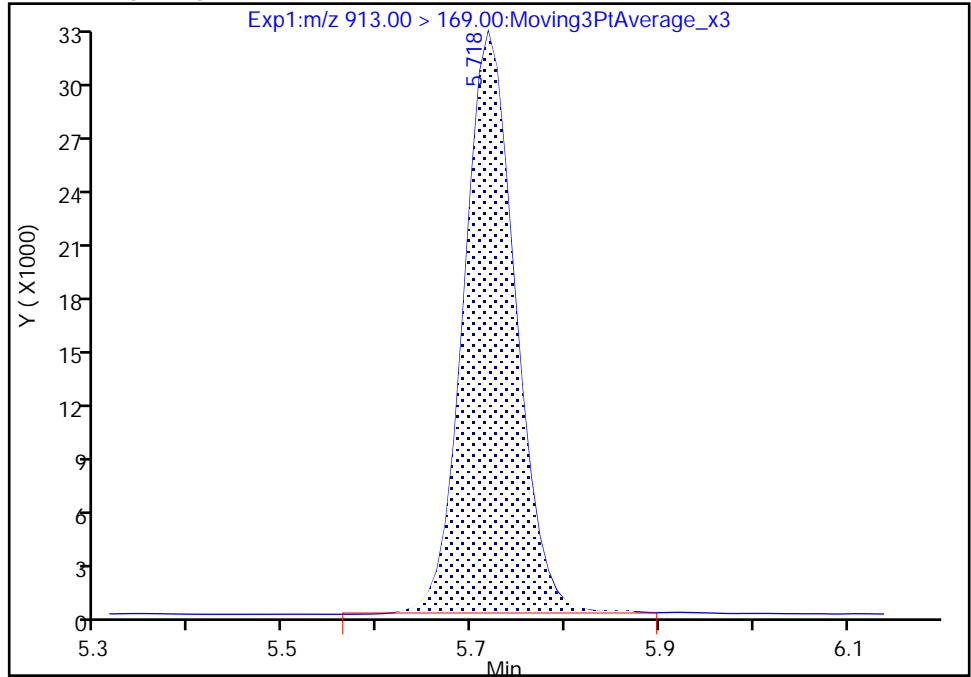
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

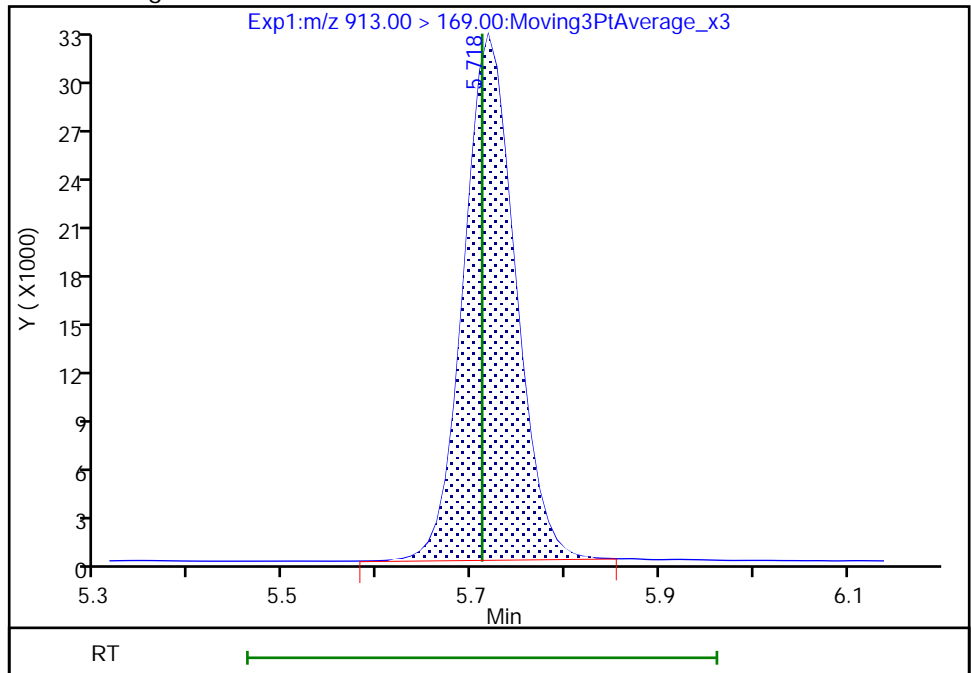
RT: 5.72
Area: 123257
Amount: 0.984317
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 122485
Amount: 0.976244
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187884/30 Calibration Date: 01/26/2023 23:43
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A30.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.9271		2.40	2.50	-3.9	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.049		2.29	2.50	-8.4	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	0.9026		1.86	2.21	-15.7	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	3.101		2.45	2.34	4.8	
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.068		2.53	2.50	1.4	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.299		2.46	2.35	5.0	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.8295		2.08	2.50	-17.0	
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	1.010		2.37	2.50	-5.2	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.014		2.10	2.28	-7.7	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	5.852		2.40	2.36	2.1	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.294		2.12	2.38	-11.1	
6:2 FTS	AveID	2.290	2.138		2.21	2.37	-6.6	
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.030		2.37	2.50	-5.4	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.063		2.03	2.32	-12.5	
Perfluorononanoic acid (PFNA)	AveID	1.022	0.9242		2.26	2.50	-9.5	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.534		2.04	2.33	-12.6	
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.8814		2.10	2.40	-12.6	
Perfluorodecanoic acid (PFDA)	AveID	1.069	0.9731		2.28	2.50	-9.0	
8:2 FTS	AveID	1.814	1.652		2.18	2.40	-8.9	
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.9110		2.27	2.50	-9.4	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.8341		2.31	2.50	-7.5	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.6029		1.93	2.41	-19.8	
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.043		2.39	2.50	-4.5	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.9118		2.45	2.50	-1.9	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	4.123		2.16	2.36	-8.1	
Perfluorododecanoic acid (PFDoA)	AveID	1.018	0.9092		2.23	2.50	-10.7	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.315		2.76	2.41	14.6	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2707		2.14	2.42	-11.4	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187884/30 Calibration Date: 01/26/2023 23:43
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A30.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	1.047		2.58	2.50	3.0	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1122		2.25	2.50	-10.1	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8669		2.36	2.50	-5.6	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.6412		1.98	2.50	-20.7	
13C4 PFBA	Ave	1.150	1.251		1.36	1.25	8.8	
13C5 PFPeA	Ave	0.9294	0.9247		1.24	1.25	-0.5	
13C3 PFBS	Ave	1.020	1.064		1.21	1.16	4.2	
M2-4:2 FTS	Ave	0.0825	0.0866		1.23	1.17	5.0	
13C2 PFHxA	Ave	0.9657	0.9621		1.25	1.25	-0.4	
13C3 HFPO-DA	Ave	0.1673	0.1827		1.37	1.25	9.2	
18O2 PFHxS	Ave	0.7424	0.6989		1.11	1.18	-5.9	50.0
13C4 PFHpA	Ave	0.9669	1.021		1.32	1.25	5.6	50.0
M2-6:2 FTS	Ave	0.1170	0.1209		1.23	1.19	3.3	
13C4 PFOA	Ave	1.024	1.068		1.30	1.25	4.3	50.0
13C4 PFOS	Ave	0.4514	0.4654		1.23	1.20	3.1	50.0
13C5 PFNA	Ave	0.998	1.097		1.37	1.25	9.9	50.0
13C2 PFDA	Ave	1.024	1.016		1.24	1.25	-0.7	
M2-8:2 FTS	Ave	0.1466	0.1535		1.25	1.20	4.7	
13C8 FOSA	Ave	0.8320	0.8269		1.24	1.25	-0.6	
d3-NMeFOSAA	Ave	0.2013	0.2414		1.50	1.25	19.9	
13C2 PFUnA	Ave	0.8836	1.003		1.42	1.25	13.5	
d5-NEtFOSAA	Ave	0.1934	0.2431		1.57	1.25	25.7	
13C2 PFDoA	Ave	0.8860	1.002		1.41	1.25	13.1	
13C2 PFTeDA	Ave	0.7620	0.9663		1.59	1.25	26.8	
13C2 PFHxDA	Ave	0.9339	1.068		1.43	1.25	14.3	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Jan-2023 23:43:08 ALS Bottle#: 27 Worklist Smp#: 30
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0054135-030 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:40:31 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620
 First Level Reviewer: khanphomeea Date: 27-Jan-2023 11:57:20
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.603	2012297	1.36	109	22248	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.004	3731395	2.40	96.1	505		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1487491	1.24	99.5	7029	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	3119948	2.29	91.6	108	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1591118	1.21	104	230332	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.410	2.384	0.026	1.006	2730329	1.86	Target=2.10	84.3	4661
298.90 > 99.00	2.410	2.384	0.026	1.006	1362771		2.00(1.05-3.15)	1572		
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.000	807071	2.45	105	5943	
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	130138	1.23	105	239	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1547604	1.25	99.6	6014	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.730	2.706	0.024	1.000	3305811	2.53	Target=13.16	101	628	M
313.00 > 119.00	2.730	2.706	0.024	1.000	231184		14.30(6.58-19.74)	663		M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.886	2740129	2.46	Target=2.90	105	4593
349.00 > 99.00	2.730	2.706	0.024	0.886	902796		3.04(1.45-4.35)	2779		
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	487585	2.07	83.0	5420	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	293919	1.37		109	3223	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.895	1063569	1.11		94.1	7782	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.091	3.069	0.022	1.004	2073969	2.10	Target=3.18	92.3	3032	M
399.00 > 99.00	3.080	3.069	0.011	1.000	632240		3.28(1.59-4.77)		1251	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1641777	1.32		106	5779	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	3315327	2.37	Target=4.10	94.8	748	M
363.00 > 169.00	3.091	3.069	0.022	1.000	895791		3.70(2.05-6.16)		3713	
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.833	8254474	2.40	Target=2.96	102	8867	
377.00 > 85.00	3.126	3.104	0.022	0.833	2557885		3.23(1.48-4.44)		4549	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	184793	1.23		103	836	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	788578	2.21		93.4	1413	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.425	3.417	0.008	0.913	1844663	2.12	Target=4.59	88.9	3600	M
449.00 > 99.00	3.425	3.417	0.008	0.913	400162		4.61(2.30-6.89)		2667	M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1718087	1.30		104	7994	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1608557	1.25			10002	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	3539273	2.37	Target=2.71	94.6	331	M
413.00 > 169.00	3.443	3.426	0.017	1.000	1241529		2.85(1.36-4.07)		1883	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	715730	1.23		103	1607	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.754	-0.001	1.000	1477443	2.03	Target=4.23	87.5	1716	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	345502		4.28(2.11-6.34)		2655	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	3262220	2.26	Target=8.78	90.5	648	
463.00 > 169.00	3.773	3.774	-0.001	1.000	388146		8.40(4.39-13.17)		2640	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1764892	1.37		110	7776	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.045	3535918	2.04		87.4	9684	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.042	4.043	-0.001	1.077	1267013	2.10	Target=2.37	87.4	6094	
549.00 > 99.00	4.042	4.043	-0.001	1.077	563206		2.25(1.18-3.55)		3514	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1634700	1.24		99.3	6026	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	3181539	2.28	Target=11.13	91.0	1065	
513.00 > 169.00	4.073	4.074	-0.001	1.000	309662		10.27(5.56-16.69)		2056	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	236546	1.25		105	891	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	781465	2.18		91.1	4681	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	2423655	2.26		90.6	4713	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1330153	1.24		99.4	2438	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	388253	1.50		120	795	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	647689	2.31		92.5	1181	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	870272	1.93	Target=2.45	80.2	2880	
599.00 > 99.00	4.322	4.322	0.0	1.151	380350		2.29(1.23-3.68)		7341	
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1612584	1.42		113	8674	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.345	4.346	-0.001	1.000	3362391	2.39	Target=10.33	95.5	1165	
563.00 > 169.00	4.345	4.346	-0.001	1.000	261109		12.88(5.17-15.50)		2910	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.357	4.358	-0.001	1.000	713202	2.45		98.1	1494	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	391085	1.57		126	1022	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	5815898	2.16		91.9	10135	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	2930159	2.23	Target=8.10	89.3	390	M
613.00 > 169.00	4.583	4.584	-0.001	1.000	377600		7.76(4.05-12.15)		3585	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1611415	1.41		113	6747	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	626012	2.76		115	5883	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.271	392378	2.14	Target=0.51	88.6	2164	
699.00 > 99.00	4.769	4.770	-0.001	1.271	721132		0.54(0.26-0.77)		7967	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.798	4.799	-0.001	1.047	3375607	2.58	Target=6.06	103	531	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	494489		6.83(3.03-9.09)		2506	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	348857	2.25	Target=0.83	89.9	3445	
713.00 > 219.00	4.994	4.998	-0.004	0.998	410911		0.85(0.42-1.25)		2656	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1554376	1.59		127	7733	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.371	5.362	0.009	1.002	2978074	2.36	Target=6.74	94.4	435	
813.00 > 169.00	5.371	5.362	0.009	1.002	466397		6.39(3.37-10.11)		4244	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1717603	1.43		114	8830	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.728	5.711	0.017	1.069	2202732	1.98	Target=6.99	79.3	388	M
913.00 > 169.00	5.728	5.711	0.017	1.069	304761		7.23(3.50-10.49)		987	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00031

Amount Added: 1.00

Units: ml

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d

Injection Date: 26-Jan-2023 23:43:08

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: LC812user

ALS Bottle#: 27

Worklist Smp#: 30

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

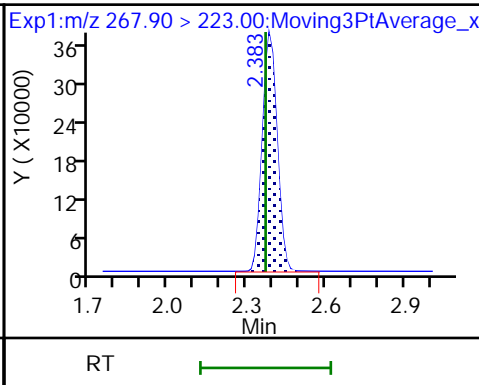
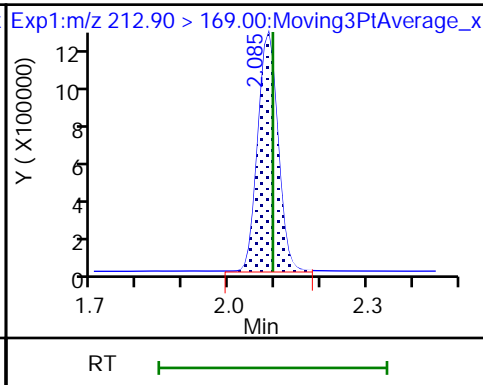
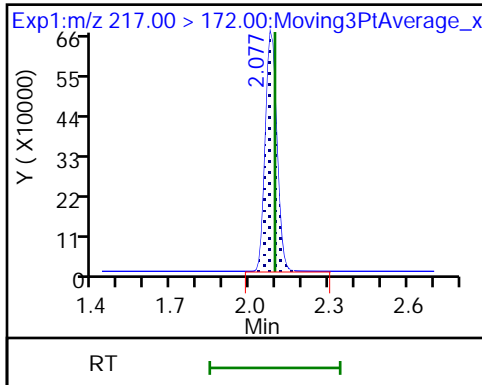
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

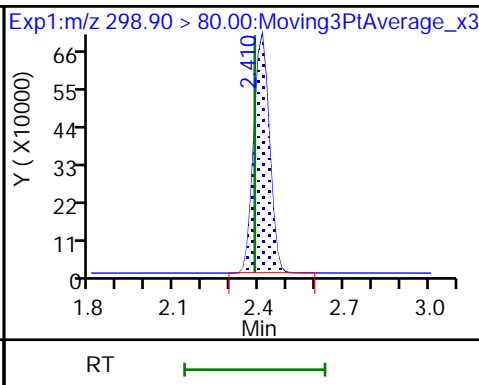
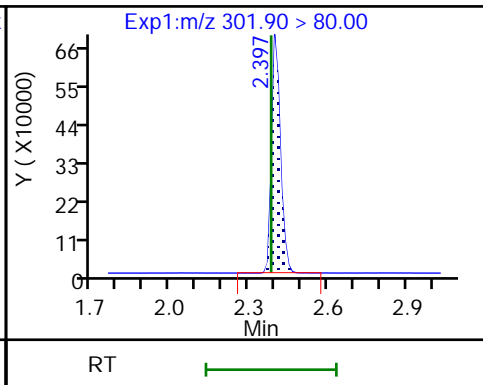
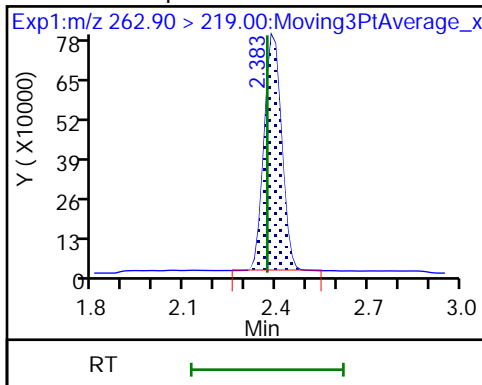
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

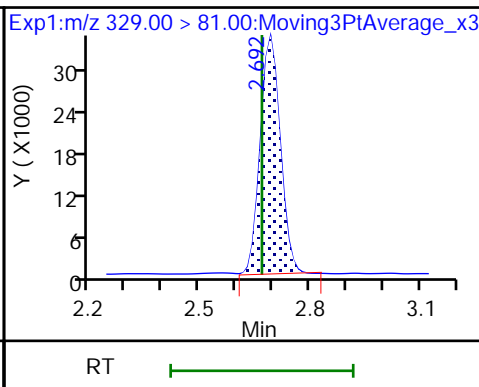
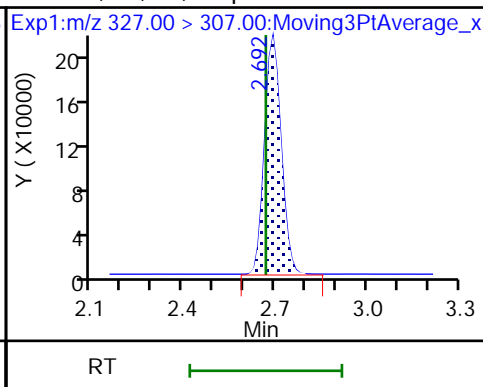
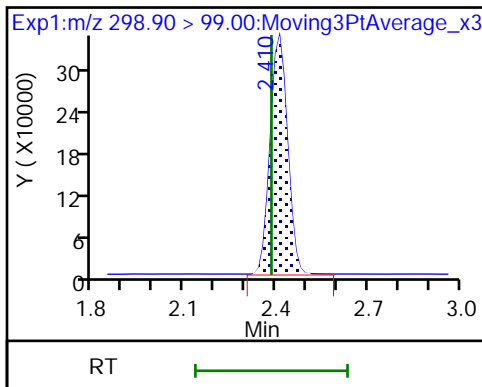
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

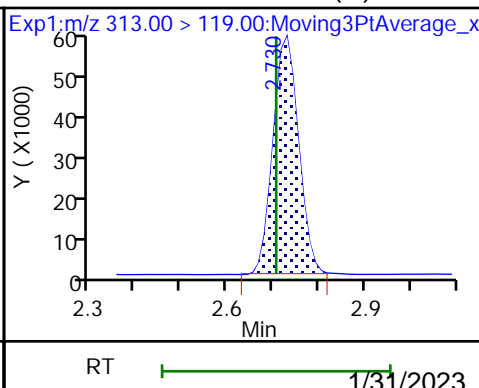
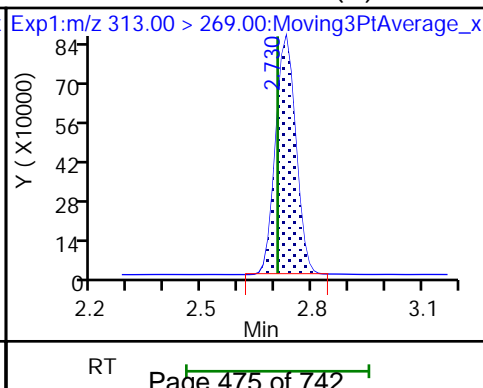
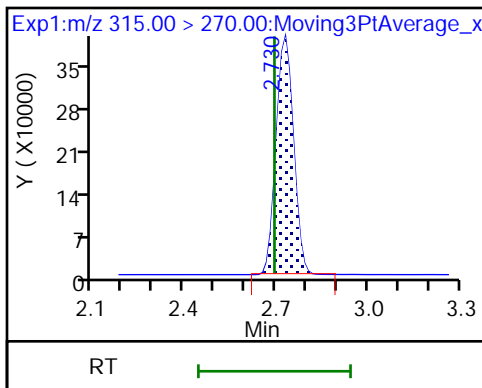
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

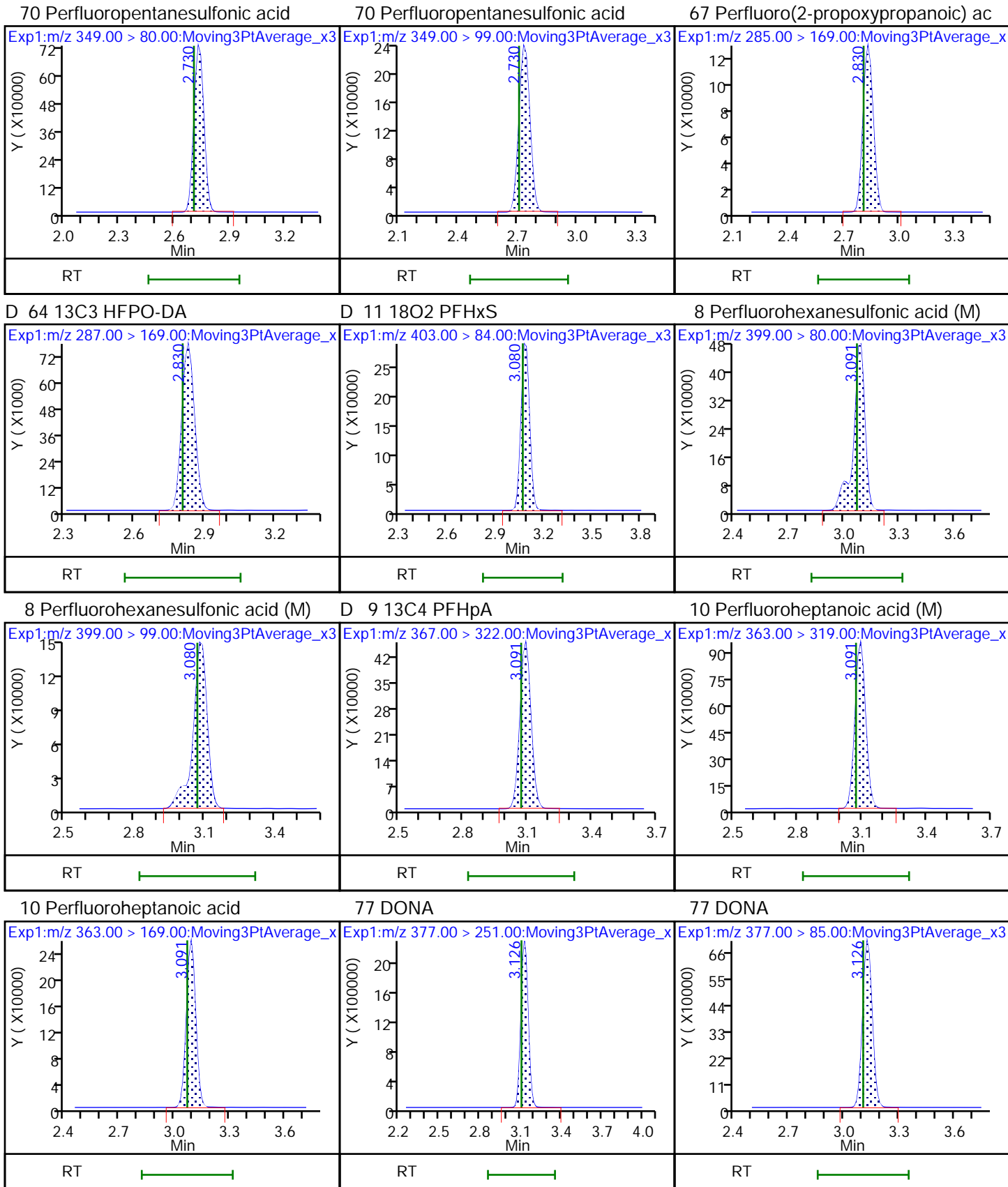


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

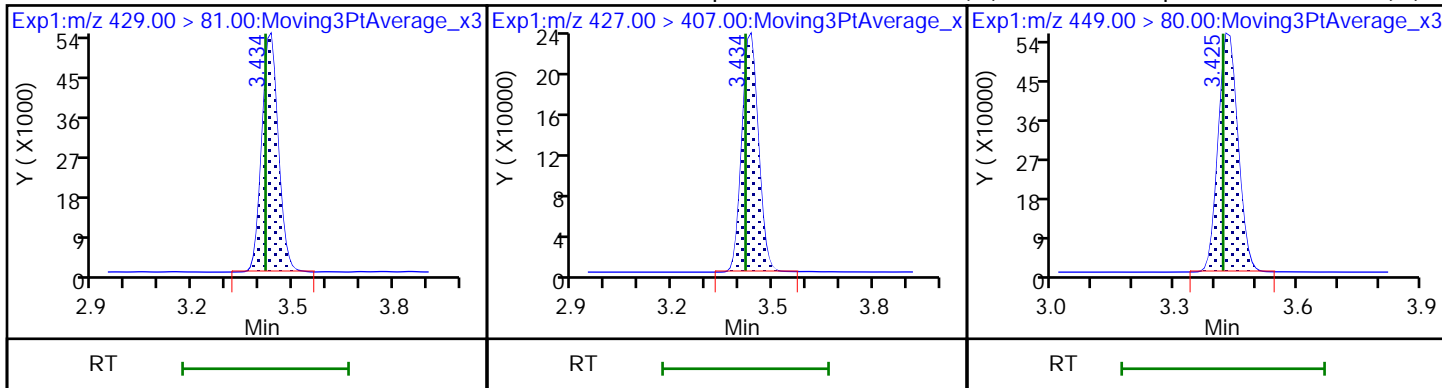
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

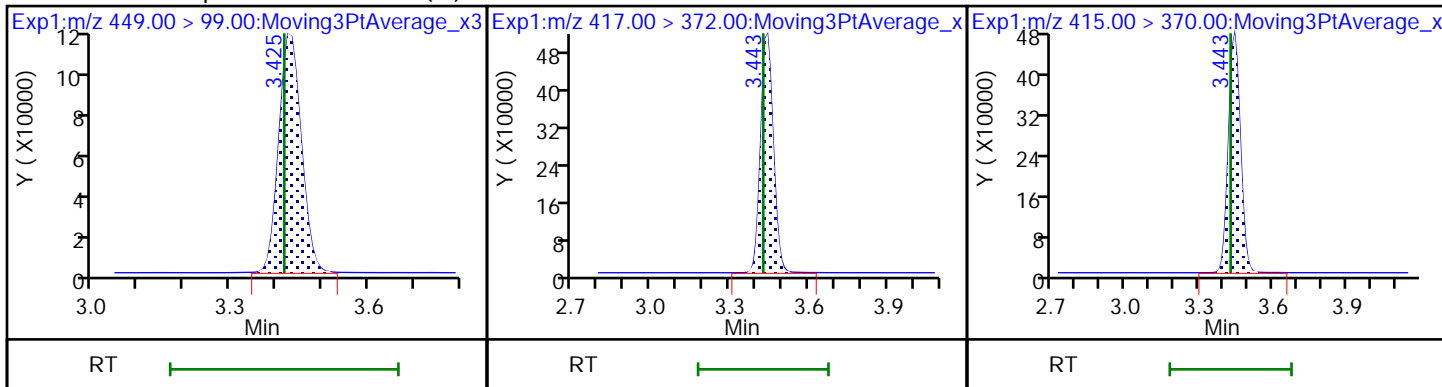
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

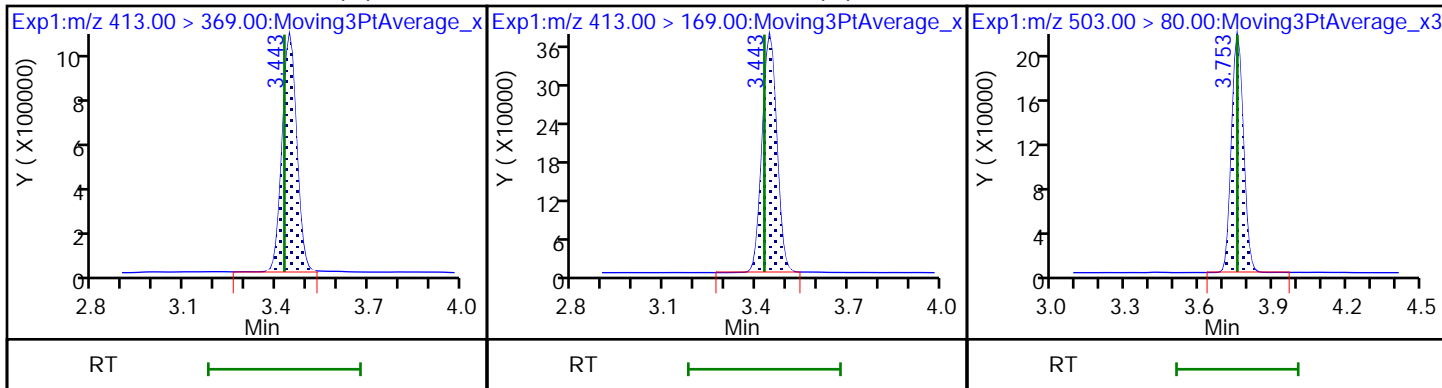
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

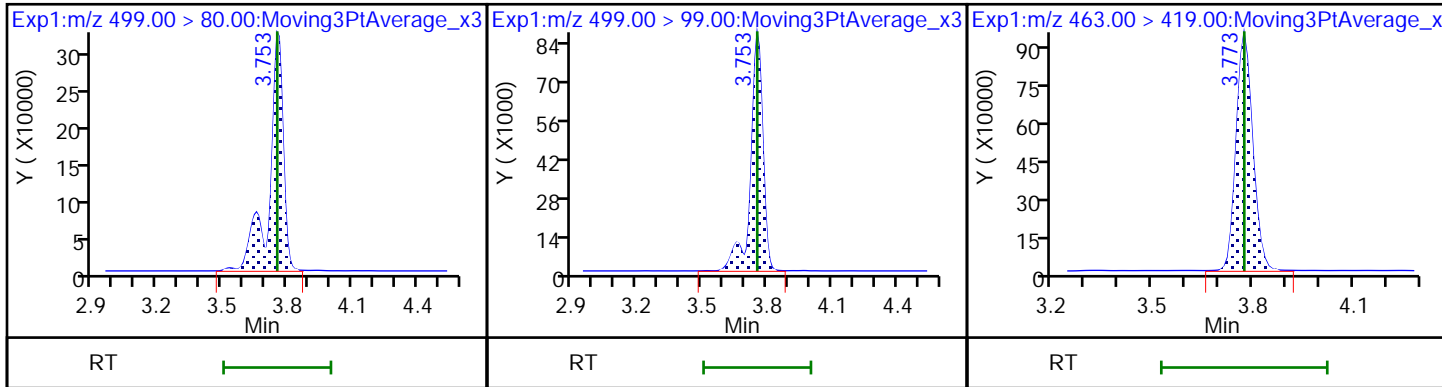
D 18 13C4 PFOS

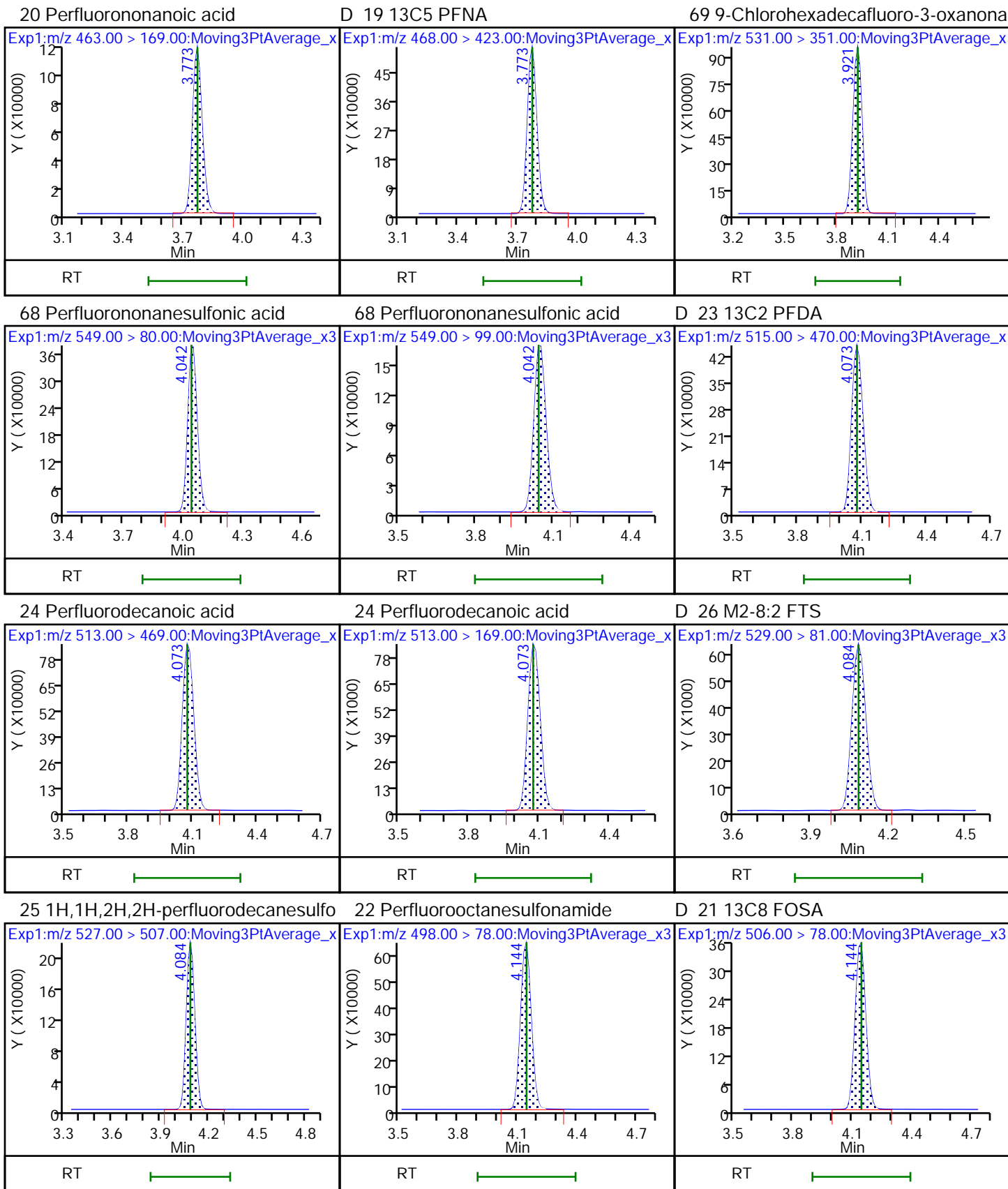


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

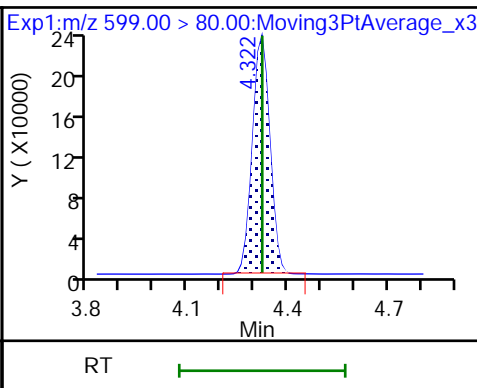
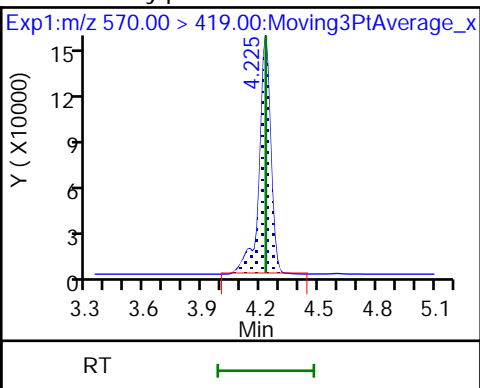
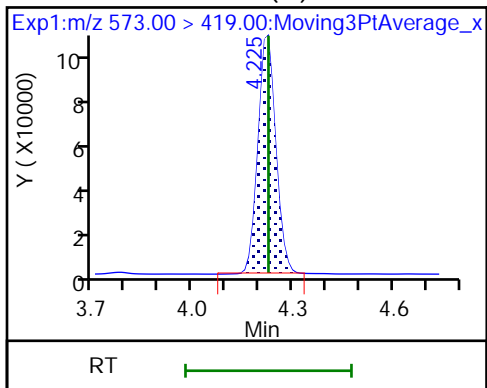




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

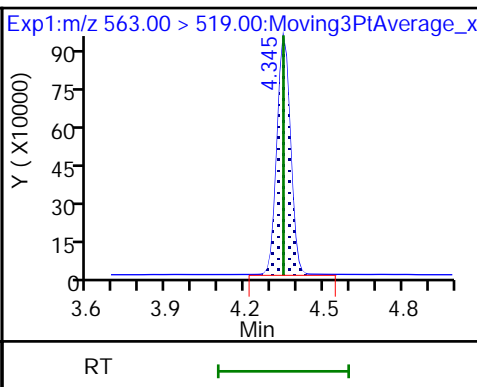
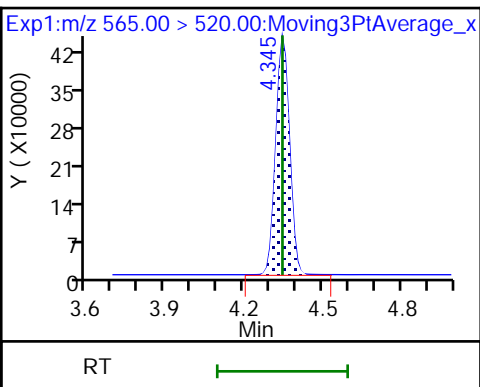
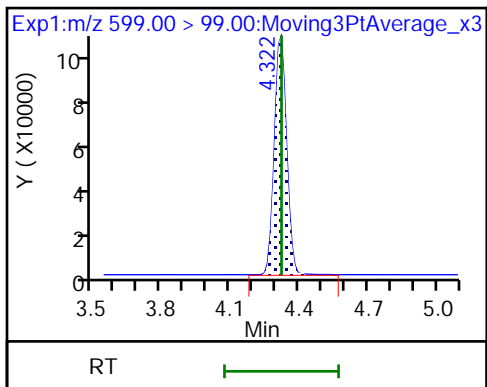
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

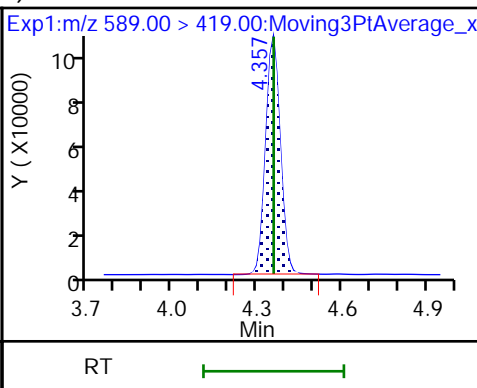
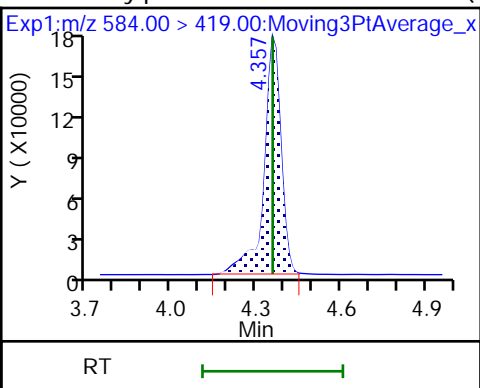
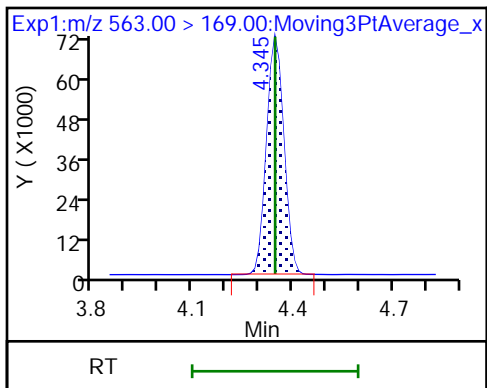
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

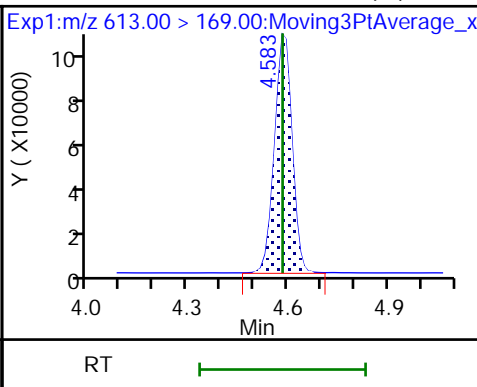
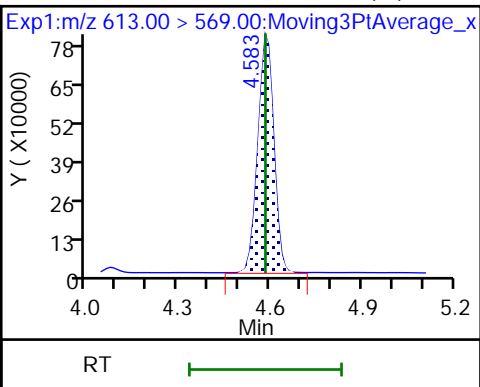
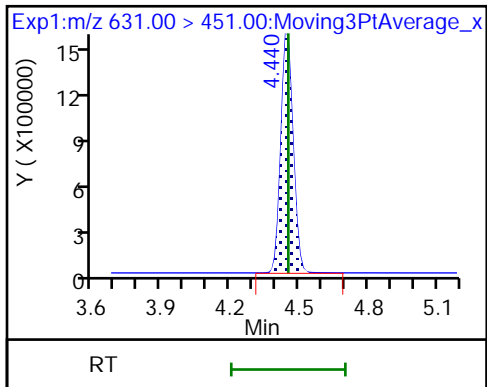
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

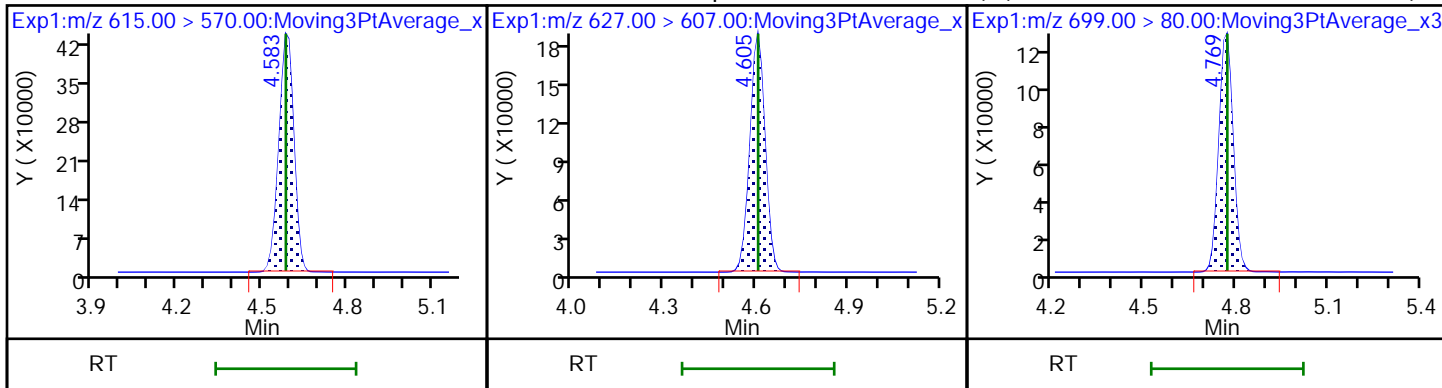
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

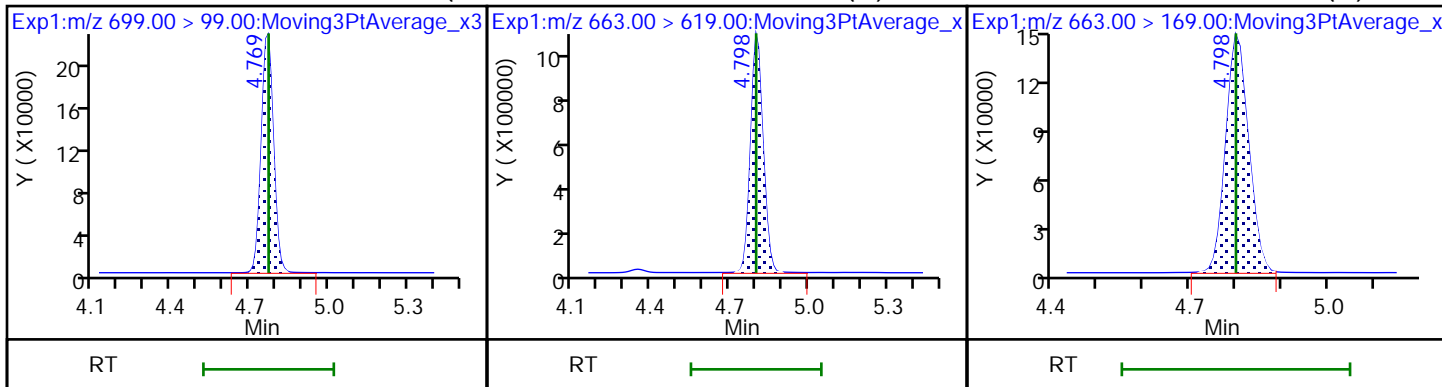
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

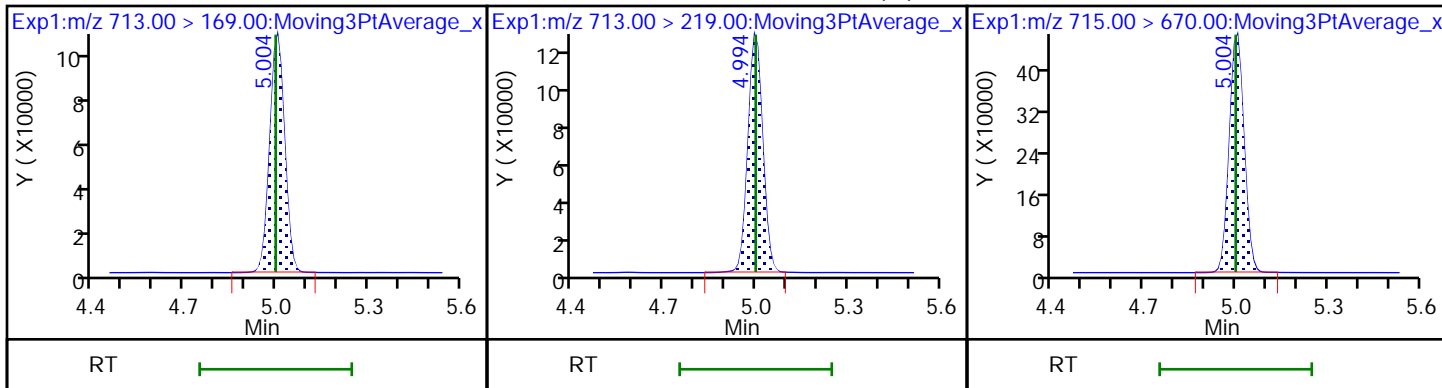
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

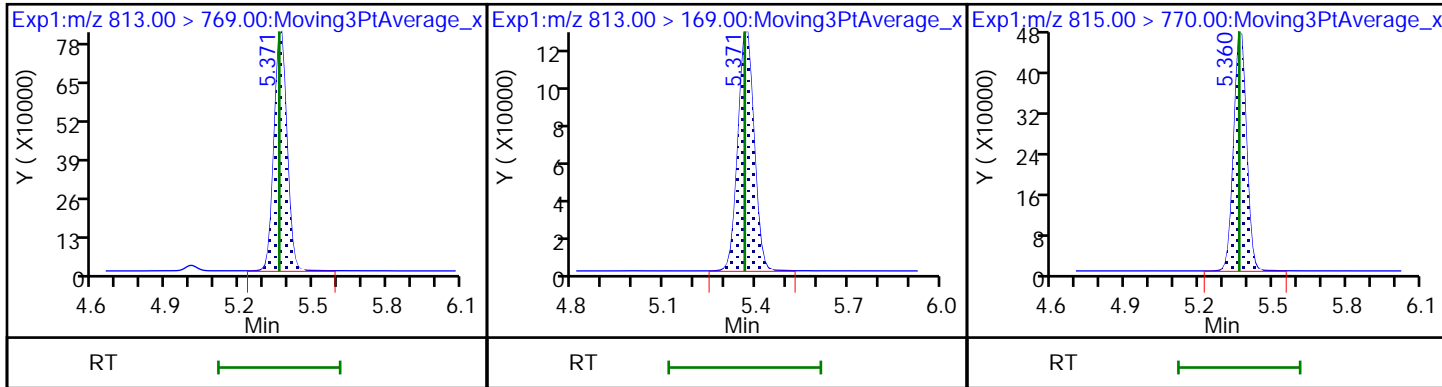
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

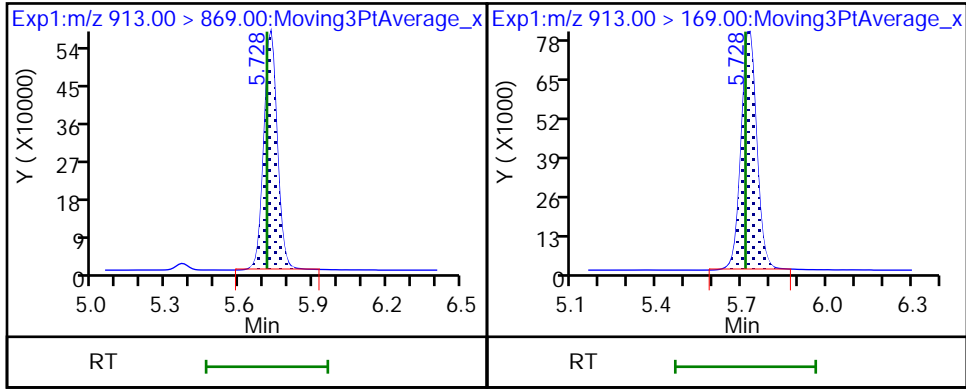
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

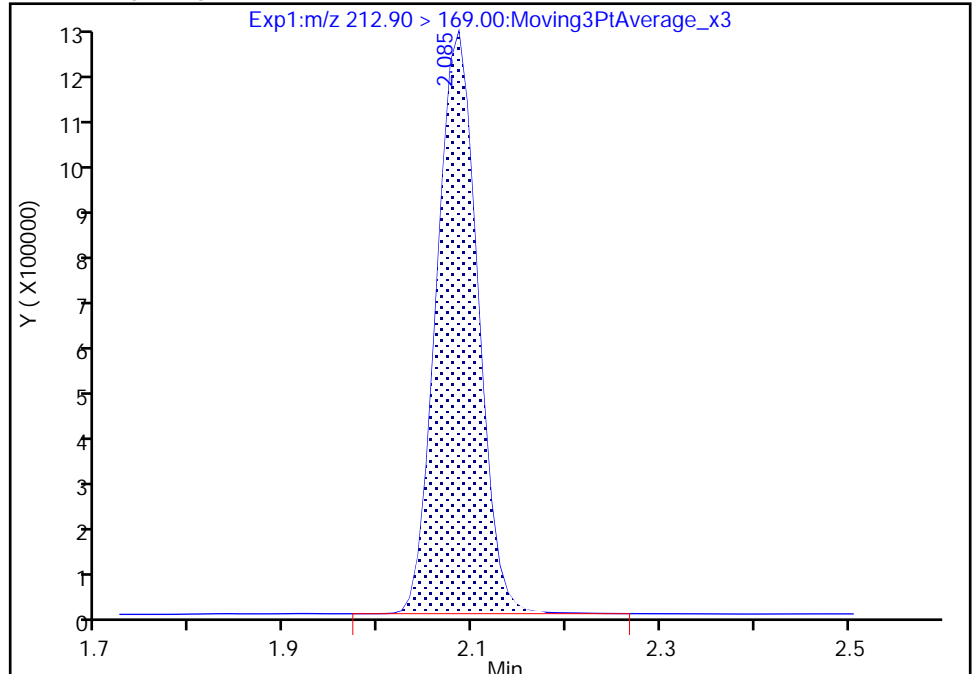
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Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

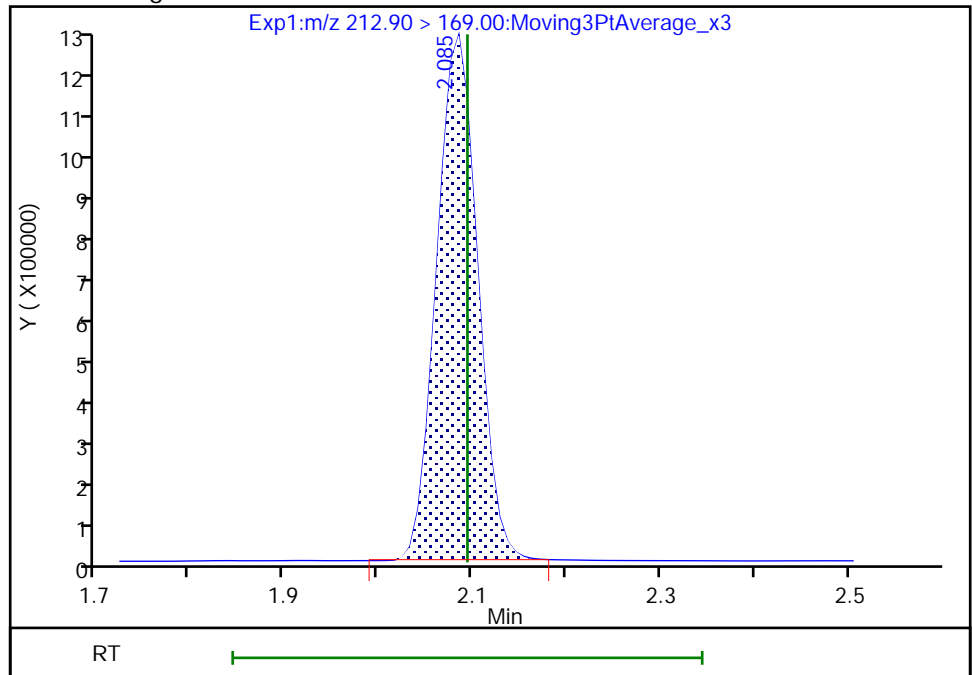
RT: 2.09
Area: 3736786
Amount: 2.406678
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 3731395
Amount: 2.403143
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:53:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

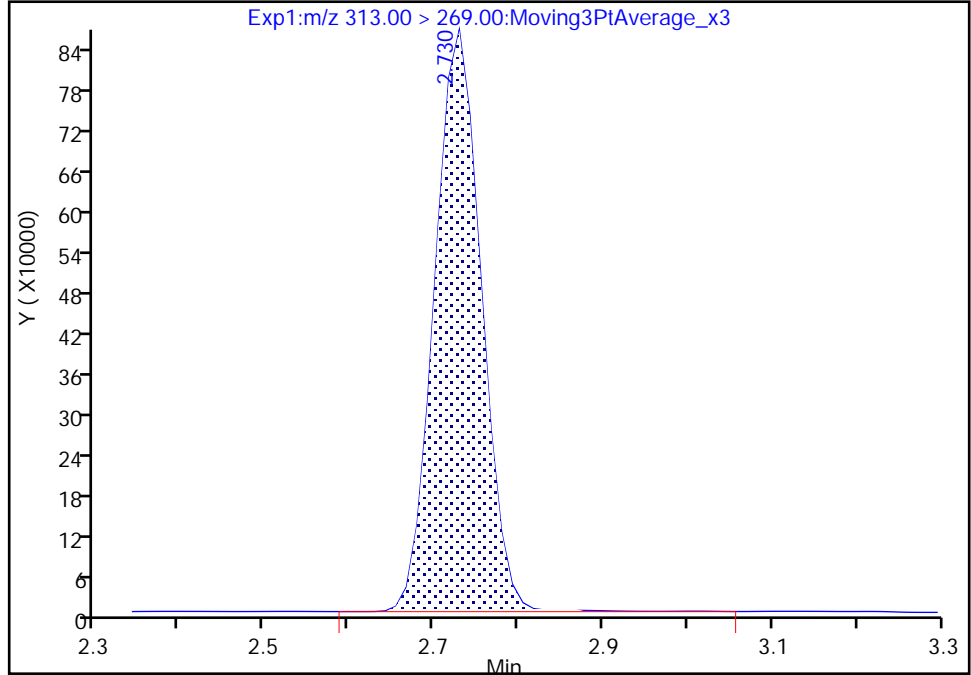
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

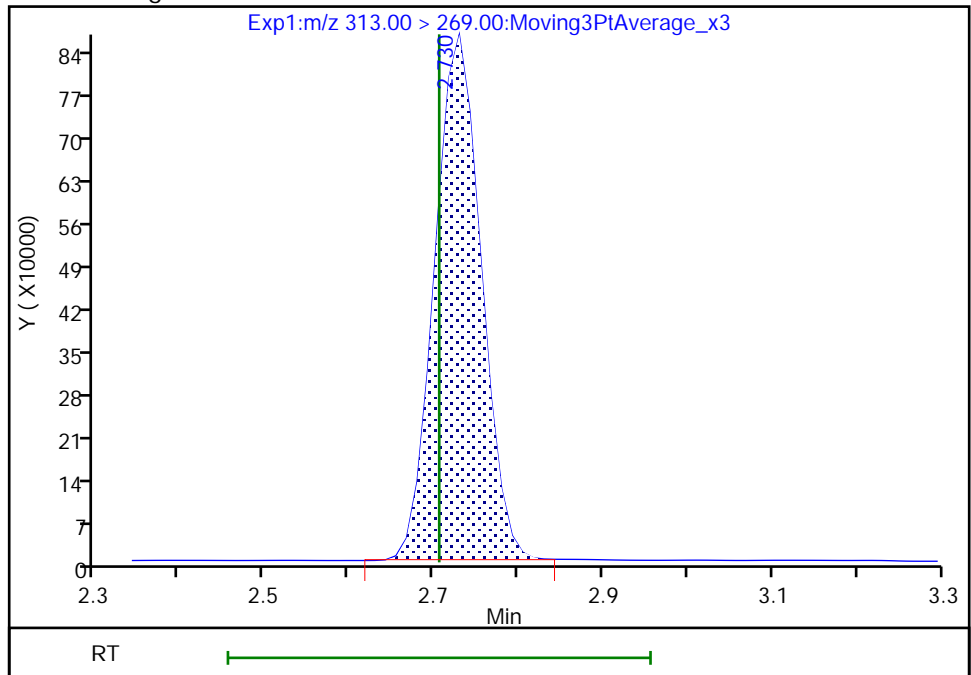
RT: 2.73
Area: 3317376
Amount: 2.543284
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 3305811
Amount: 2.534418
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:54:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

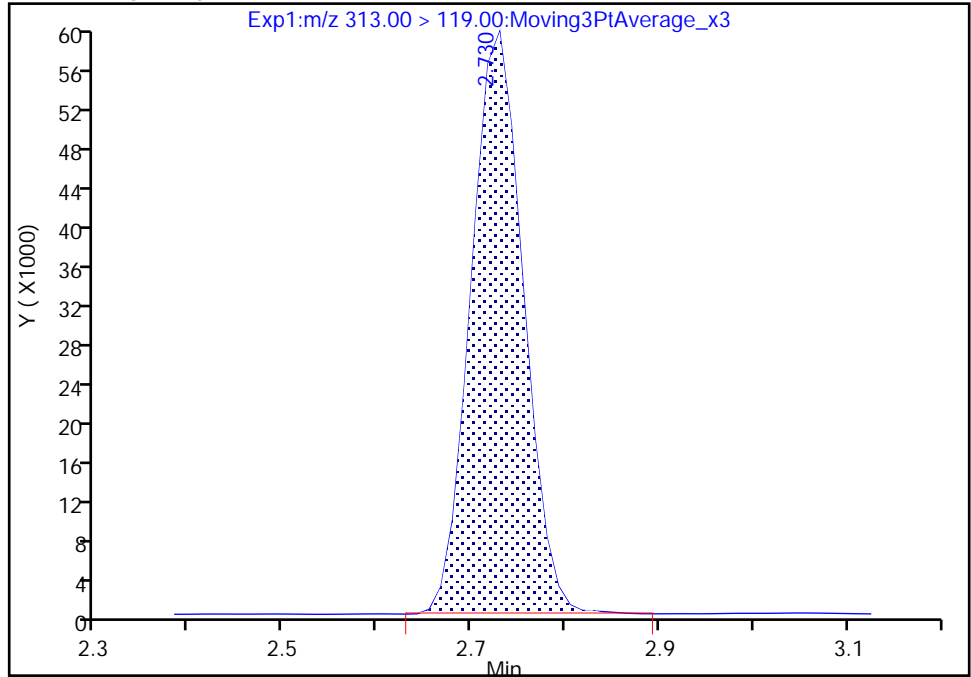
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Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

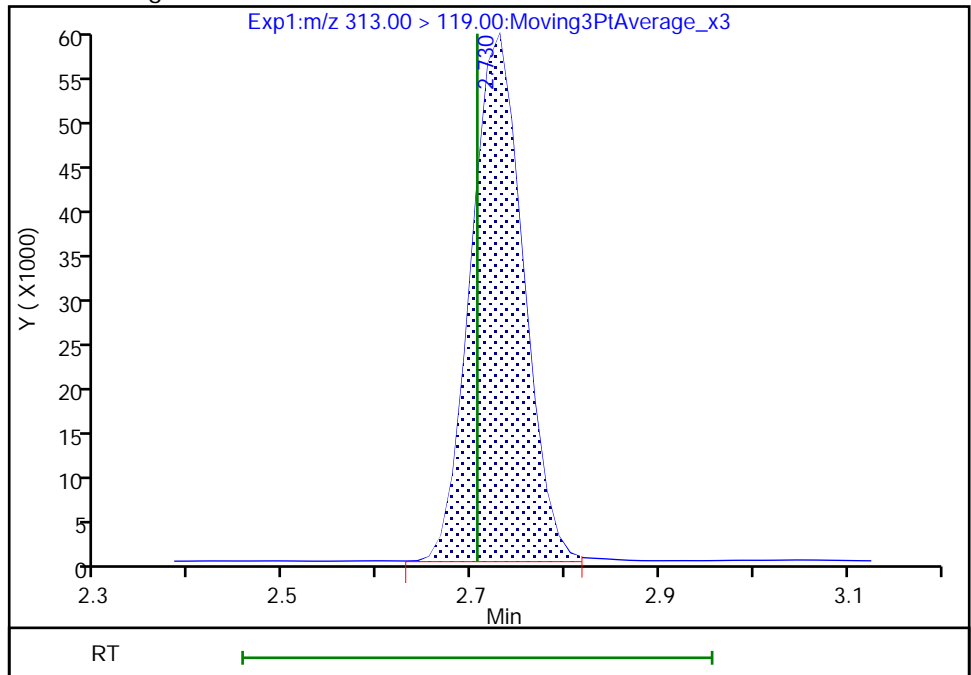
RT: 2.73
Area: 231851
Amount: 2.543284
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 231184
Amount: 2.534418
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:54:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

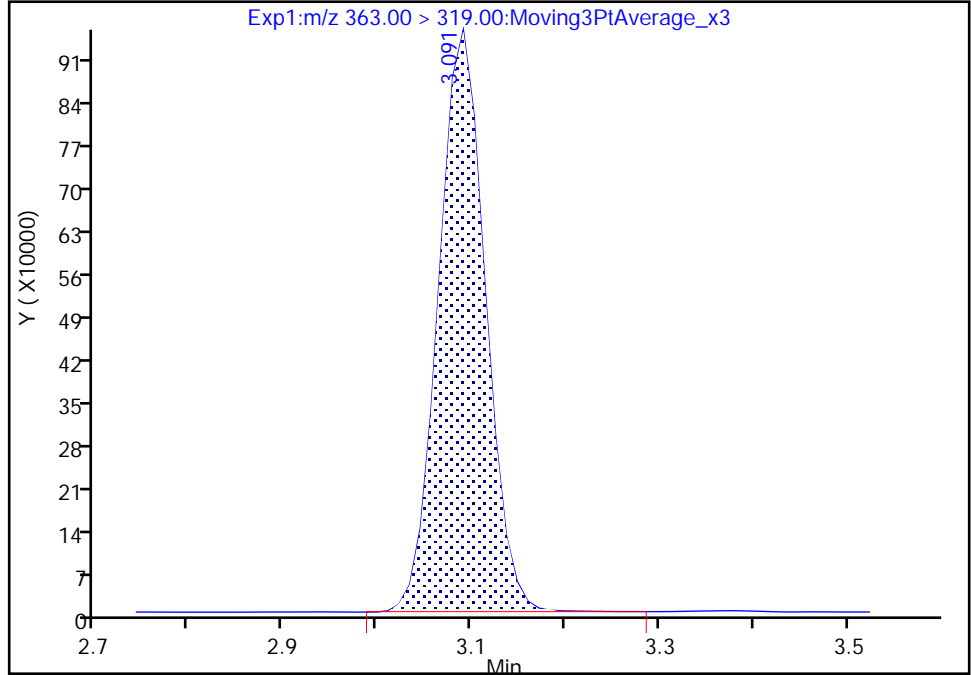
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

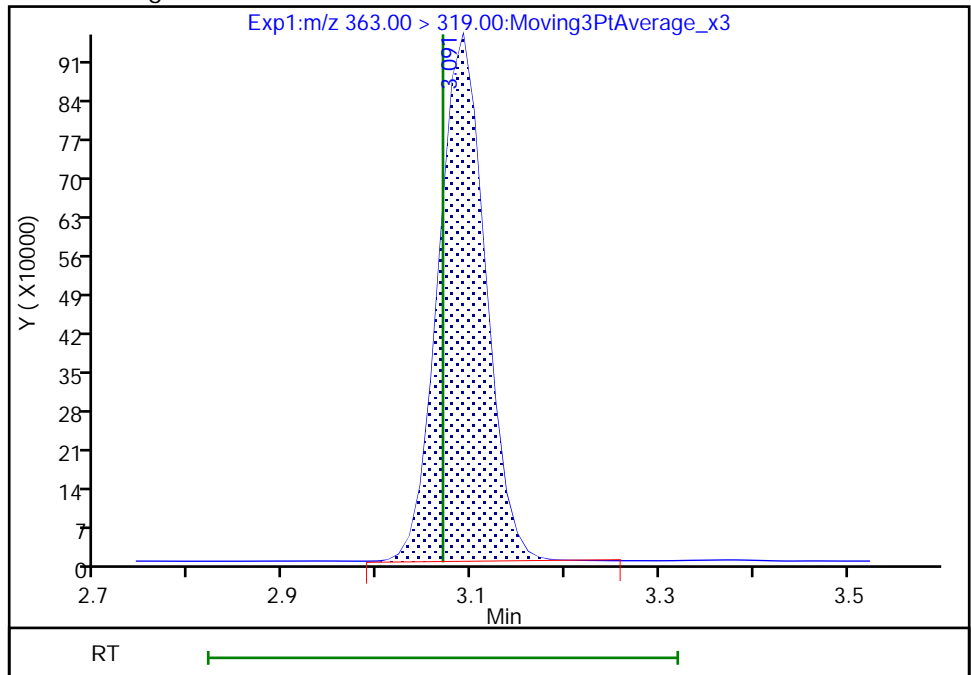
RT: 3.09
Area: 3328314
Amount: 2.379620
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3315327
Amount: 2.370334
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:54:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

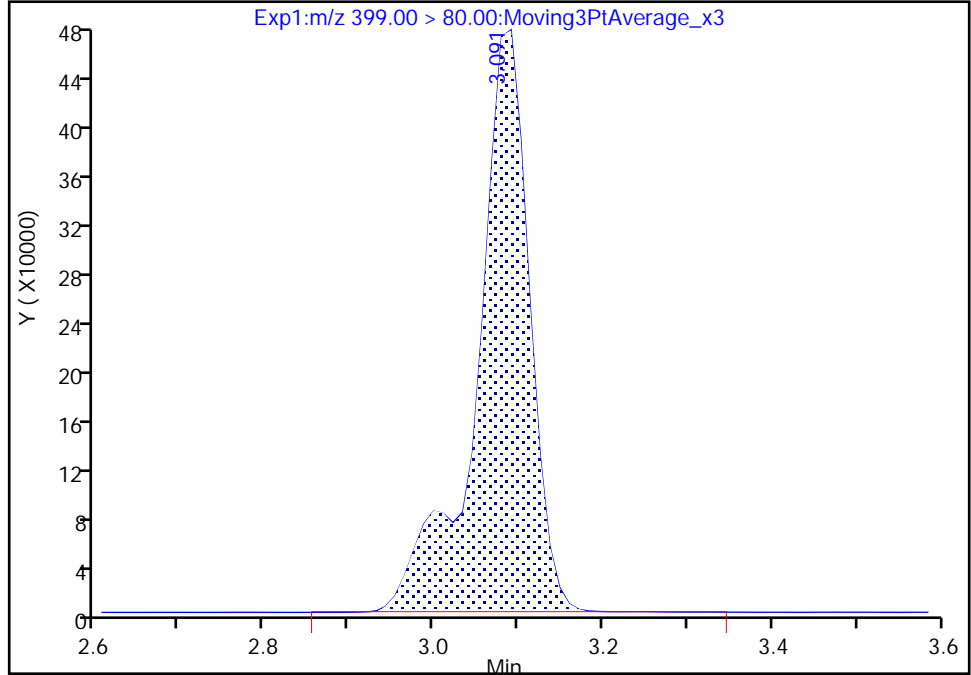
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Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

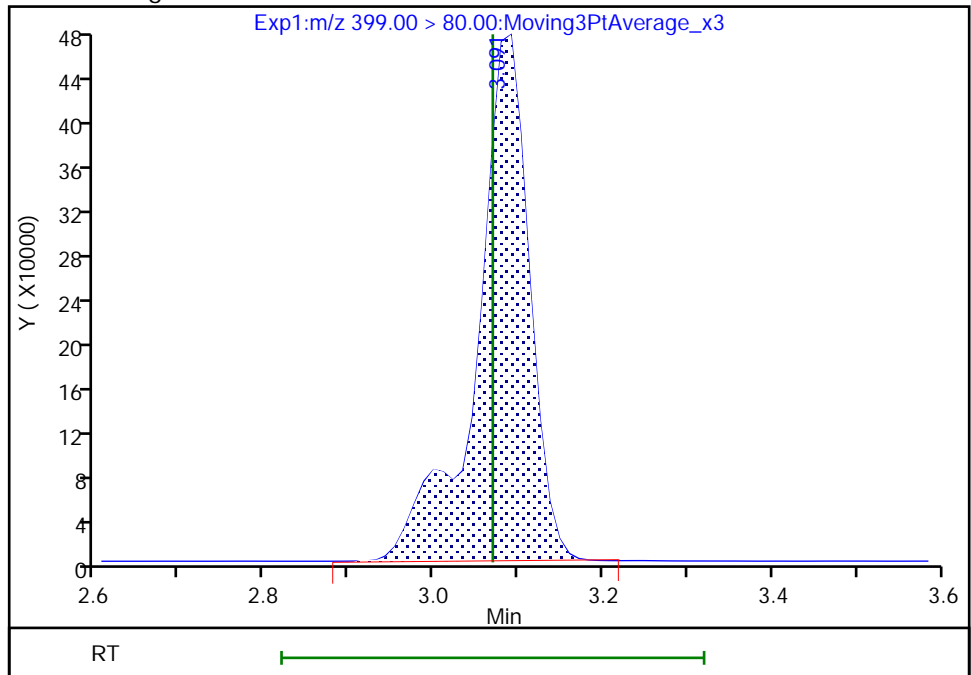
RT: 3.09
Area: 2079650
Amount: 2.106466
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2073969
Amount: 2.100712
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:54:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

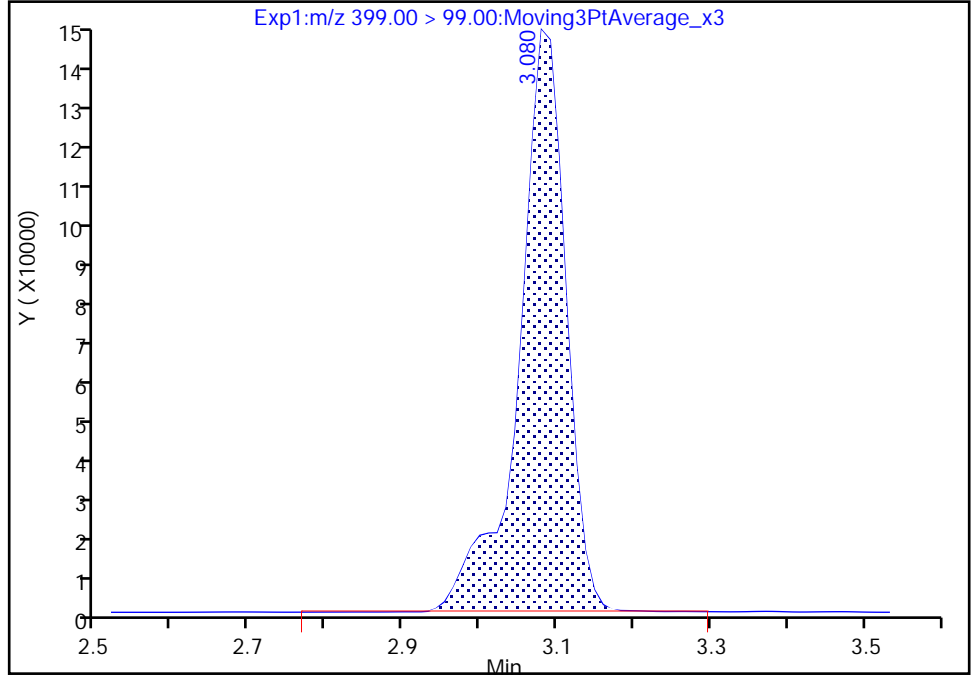
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Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

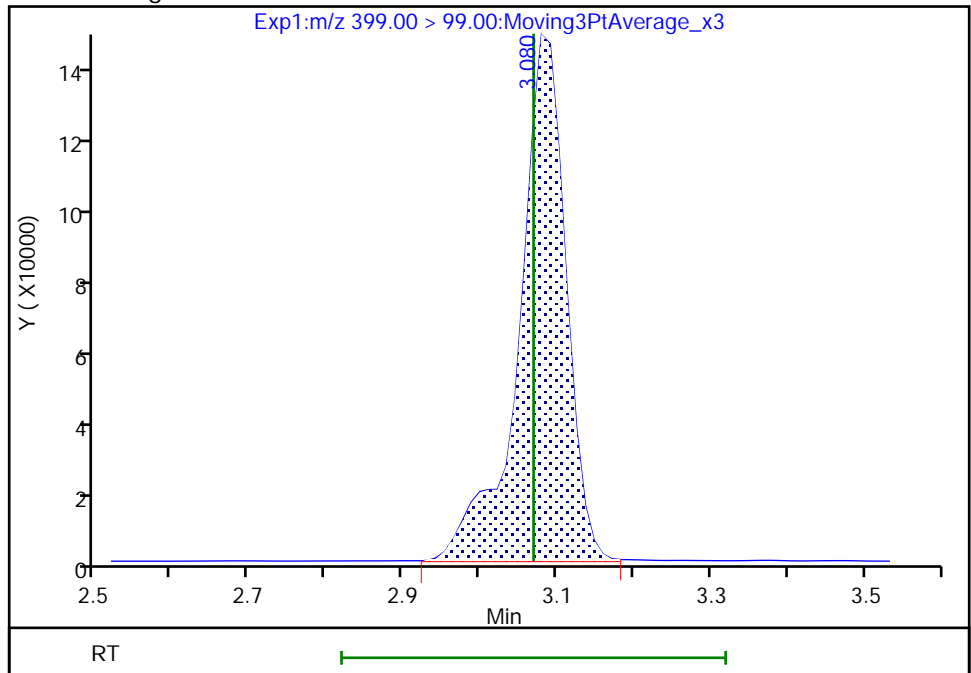
RT: 3.08
Area: 634106
Amount: 2.106466
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 632240
Amount: 2.100712
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:54:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 487 of 742

Eurofins Burlington

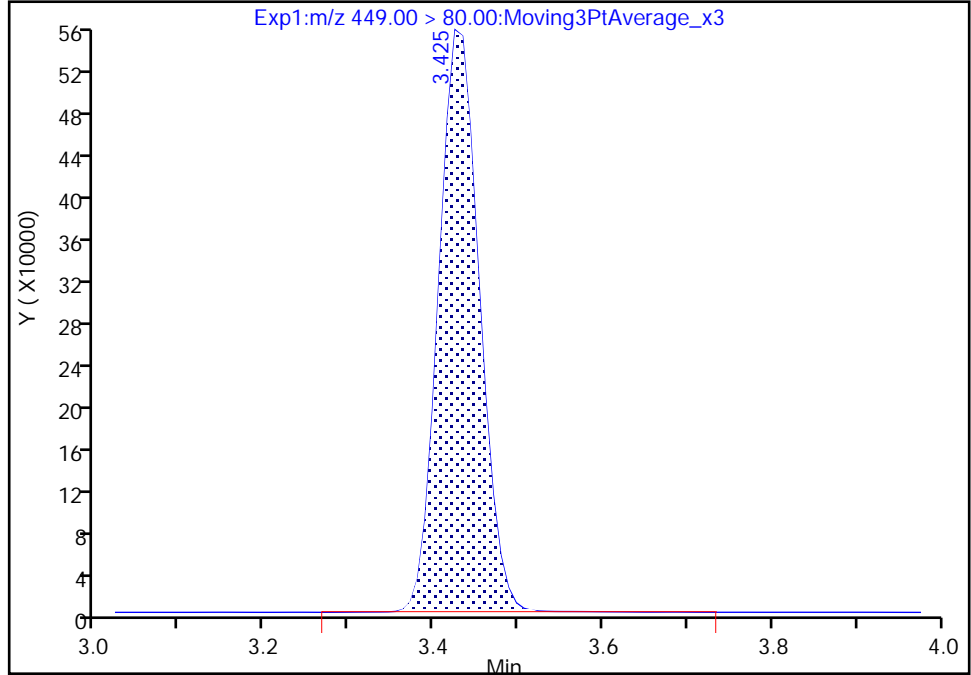
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Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

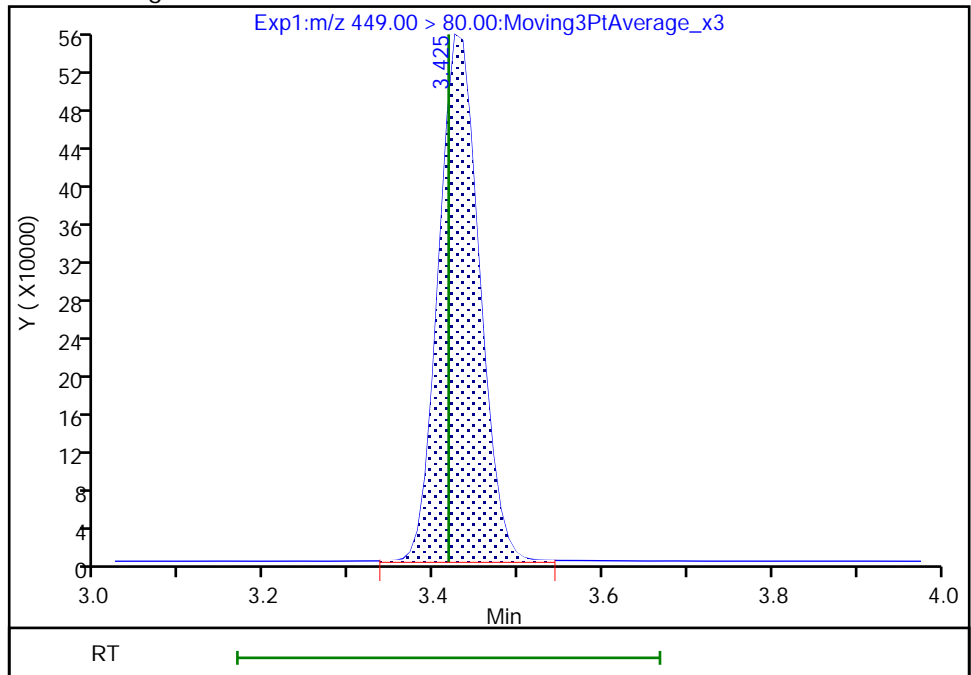
RT: 3.42
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Amount: 2.121904
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 1844663
Amount: 2.116603
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:55:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

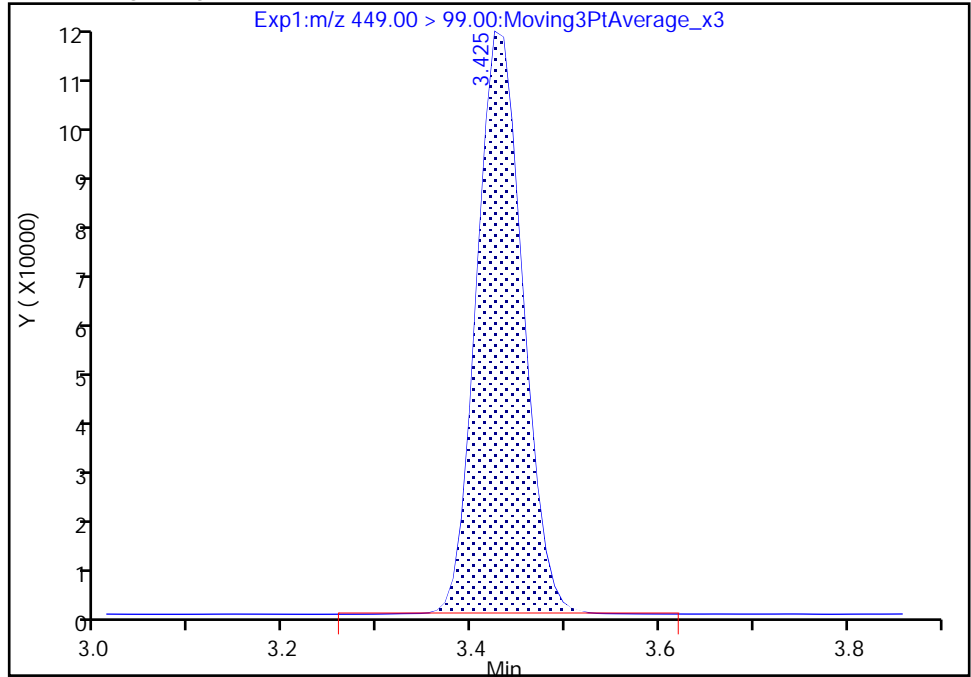
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

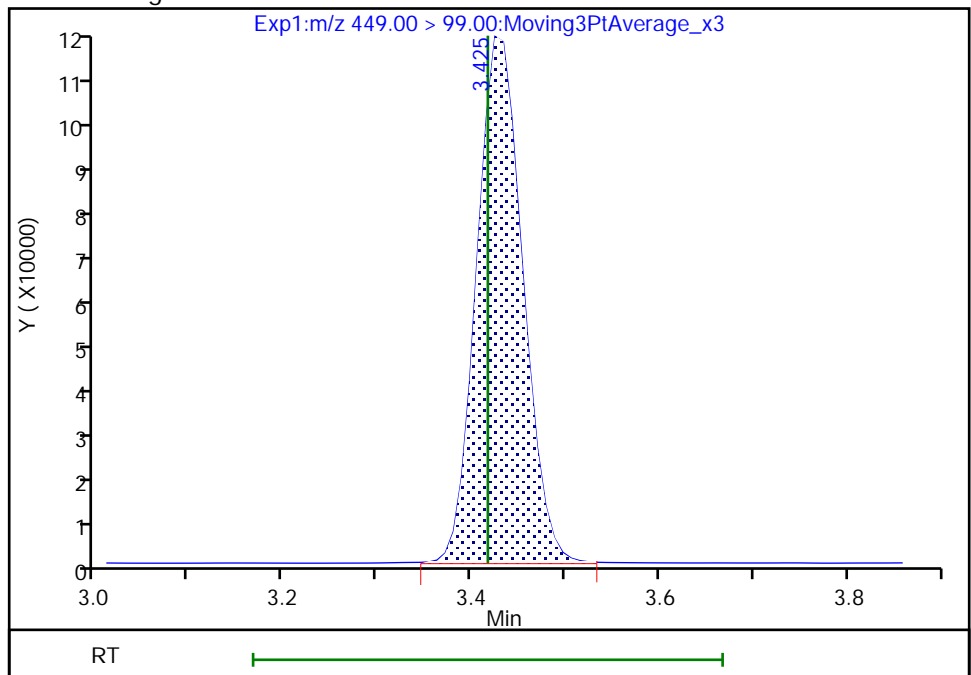
RT: 3.42
Area: 400737
Amount: 2.121904
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 400162
Amount: 2.116603
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:55:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

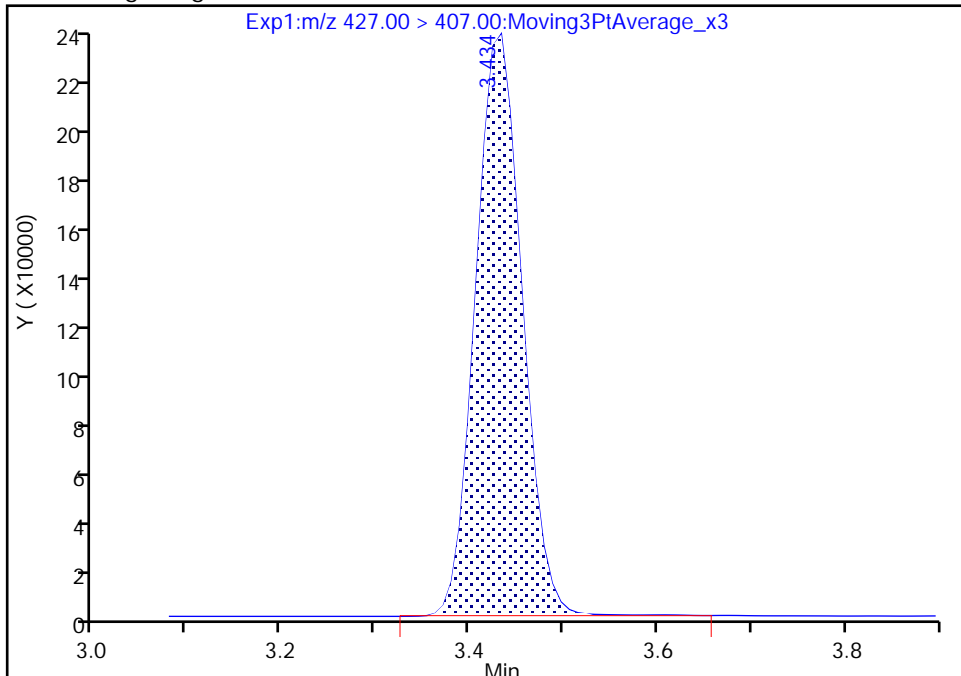
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

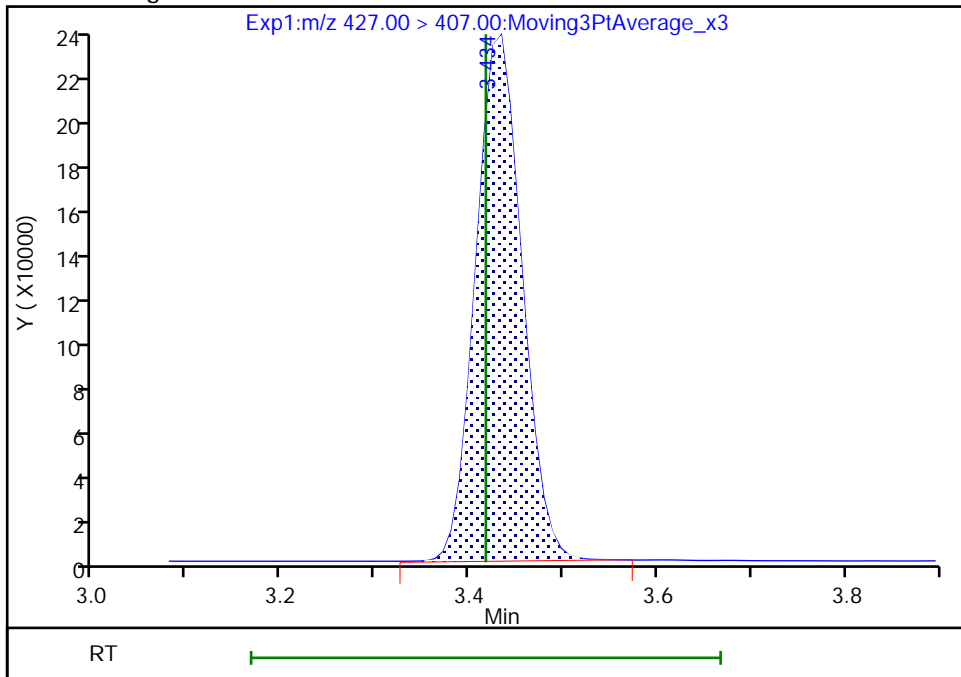
RT: 3.43
Area: 791706
Amount: 2.221723
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 788578
Amount: 2.212945
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:54:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

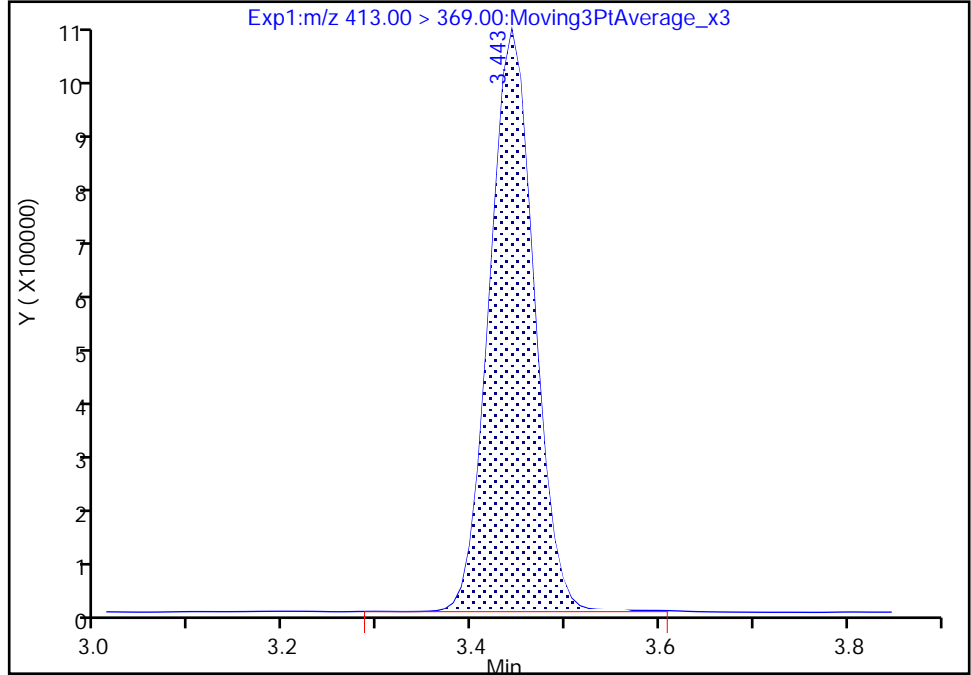
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Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

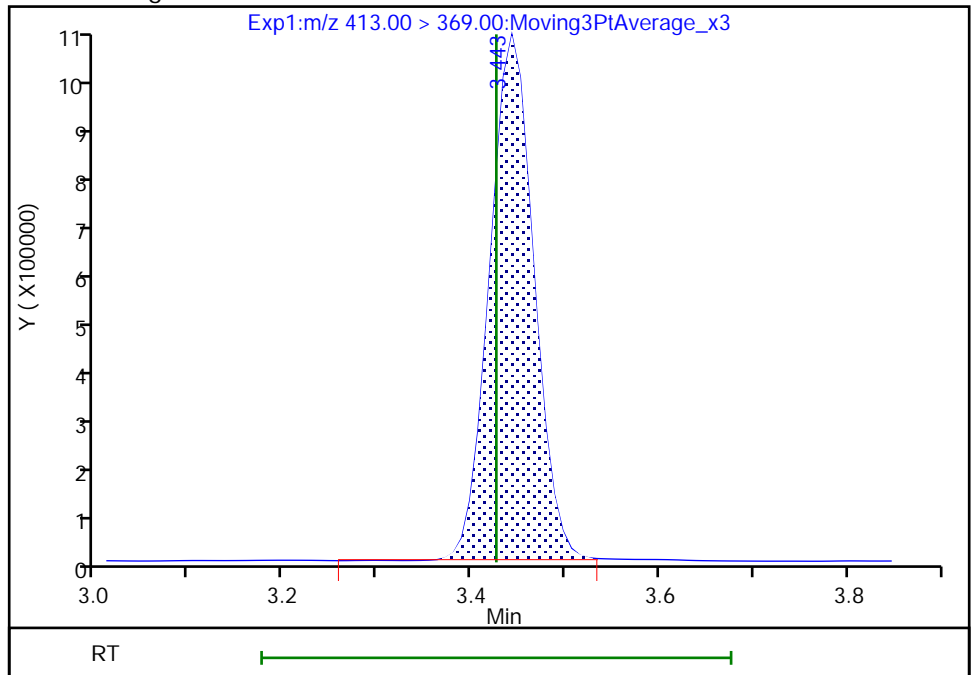
RT: 3.44
Area: 3531347
Amount: 2.360816
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 3539273
Amount: 2.366114
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:55:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

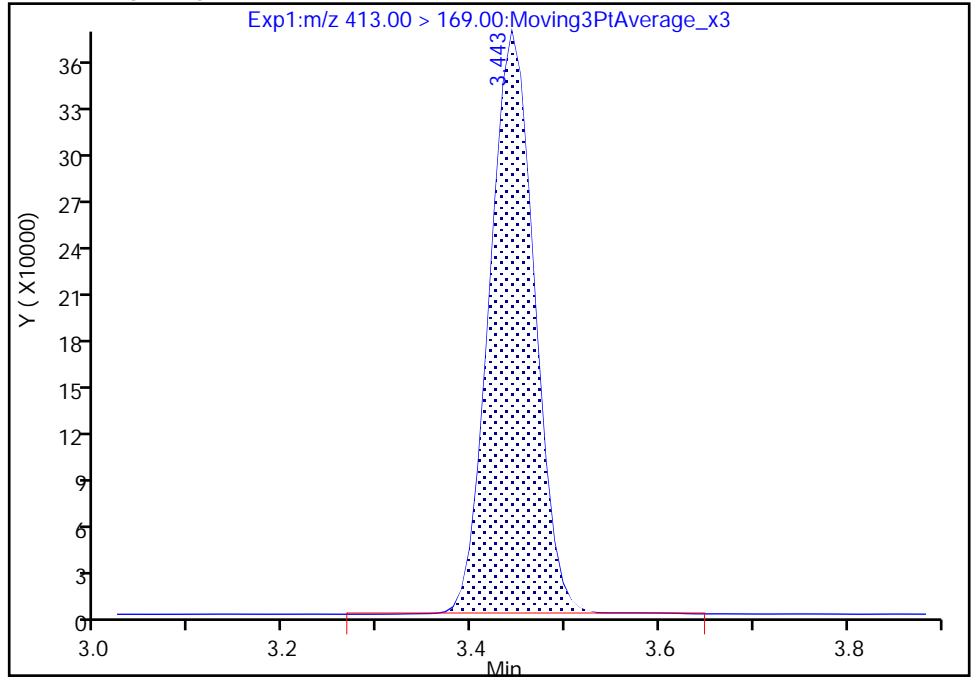
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

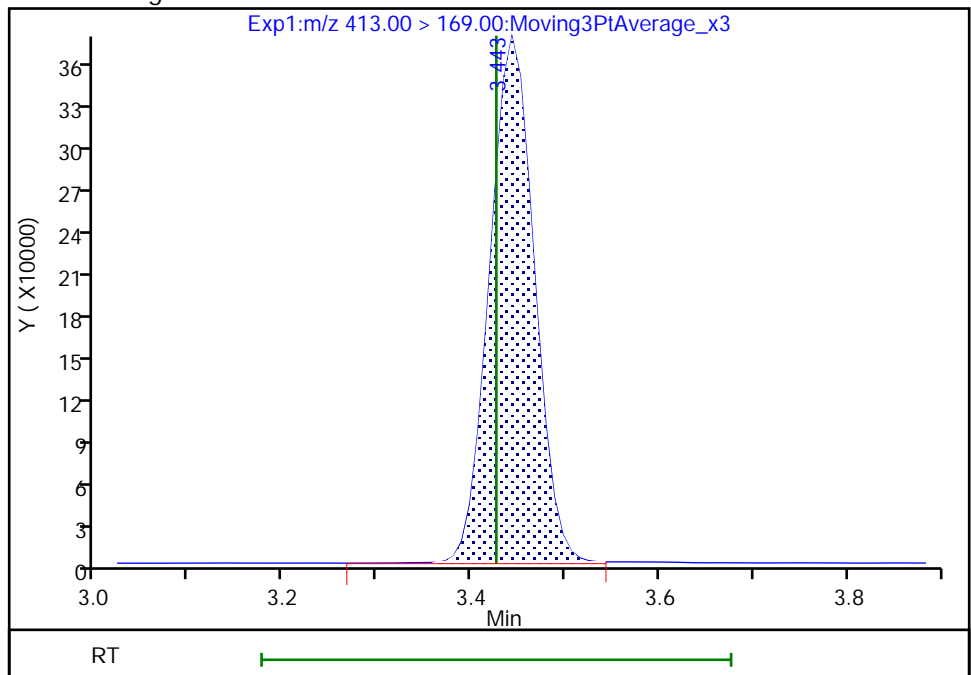
RT: 3.44
Area: 1244604
Amount: 2.360816
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1241529
Amount: 2.366114
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:55:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

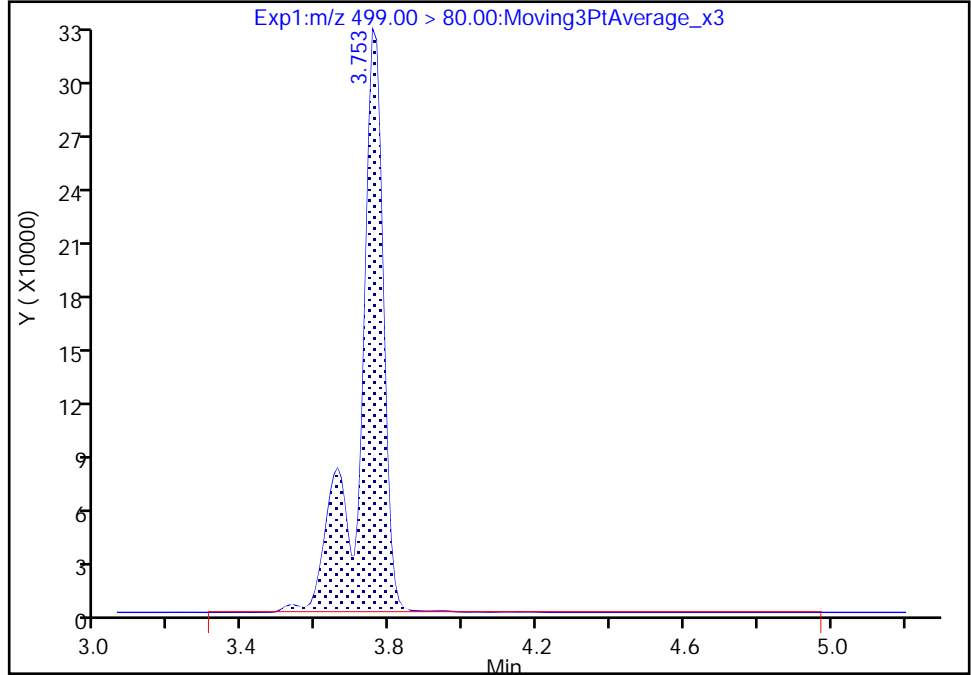
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

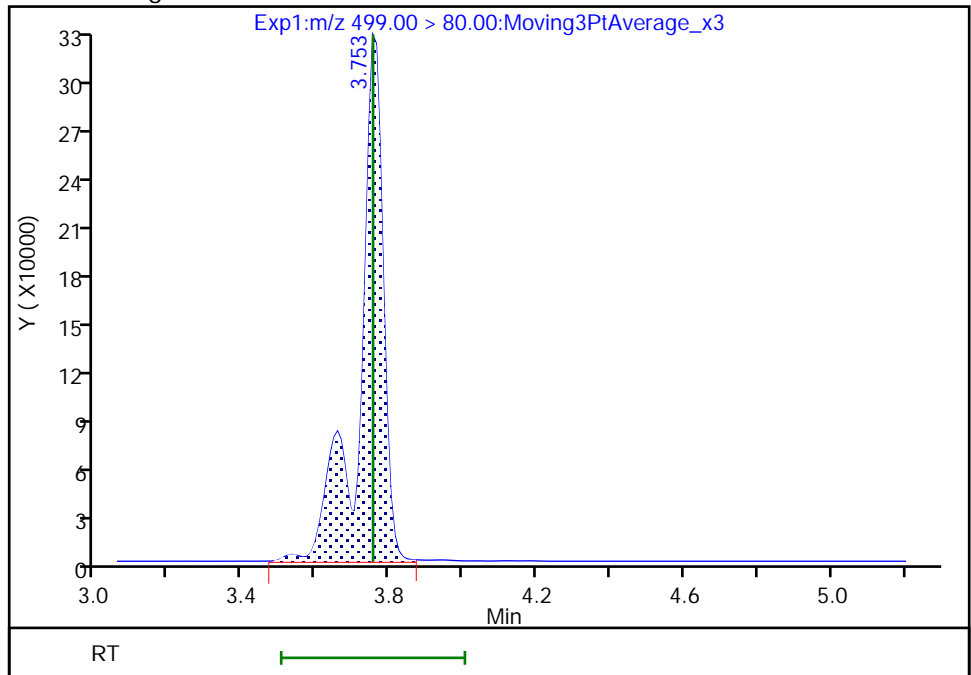
RT: 3.75
Area: 1487266
Amount: 2.044068
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1477443
Amount: 2.030567
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:35:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

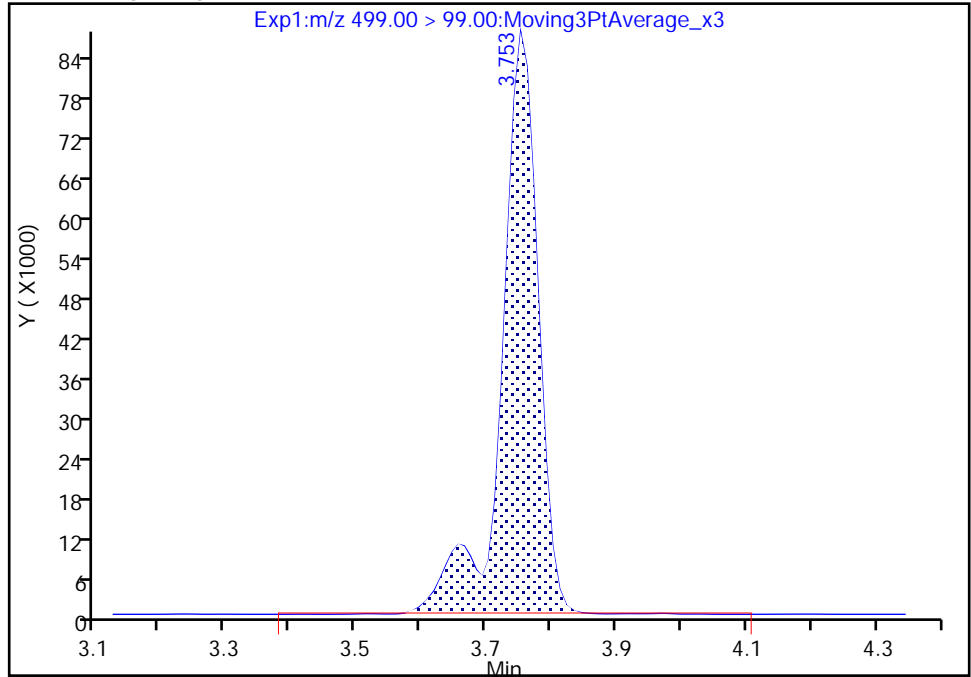
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

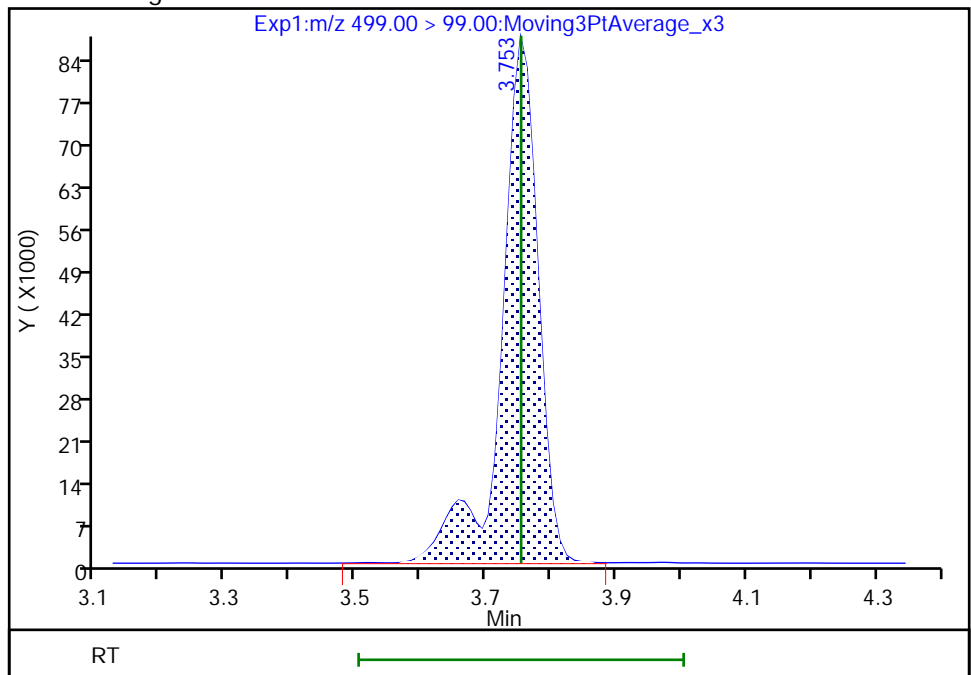
RT: 3.75
Area: 346347
Amount: 2.044068
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 345502
Amount: 2.030567
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:35:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

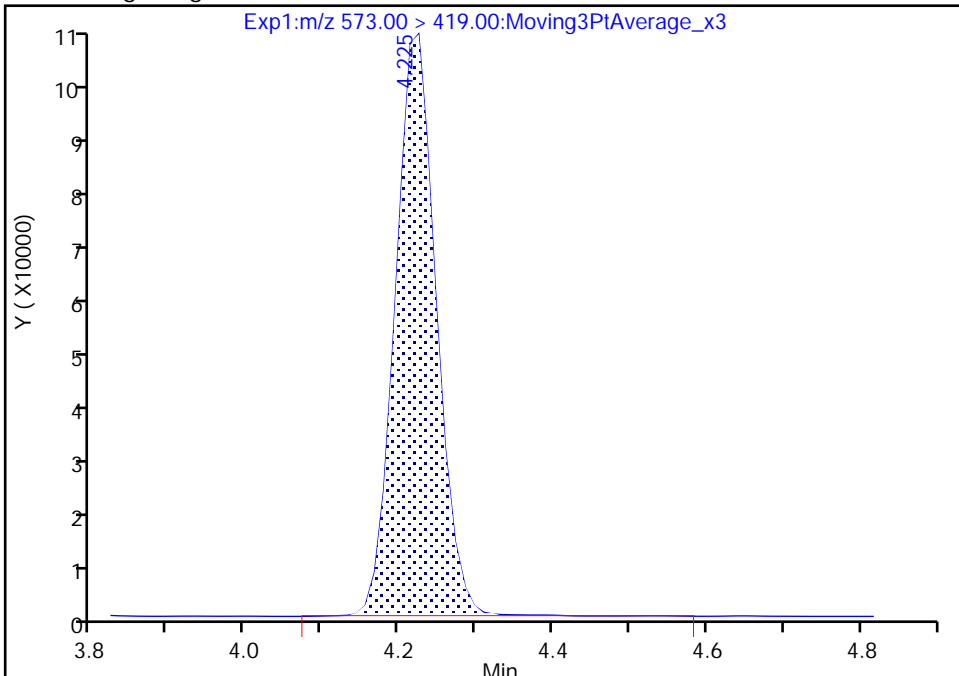
Data File:	\\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d		
Injection Date:	26-Jan-2023 23:43:08	Instrument ID:	LC812
Lims ID:	CCV L5		
Client ID:			
Operator ID:	LC812user	ALS Bottle#:	27
		Worklist Smp#:	30
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

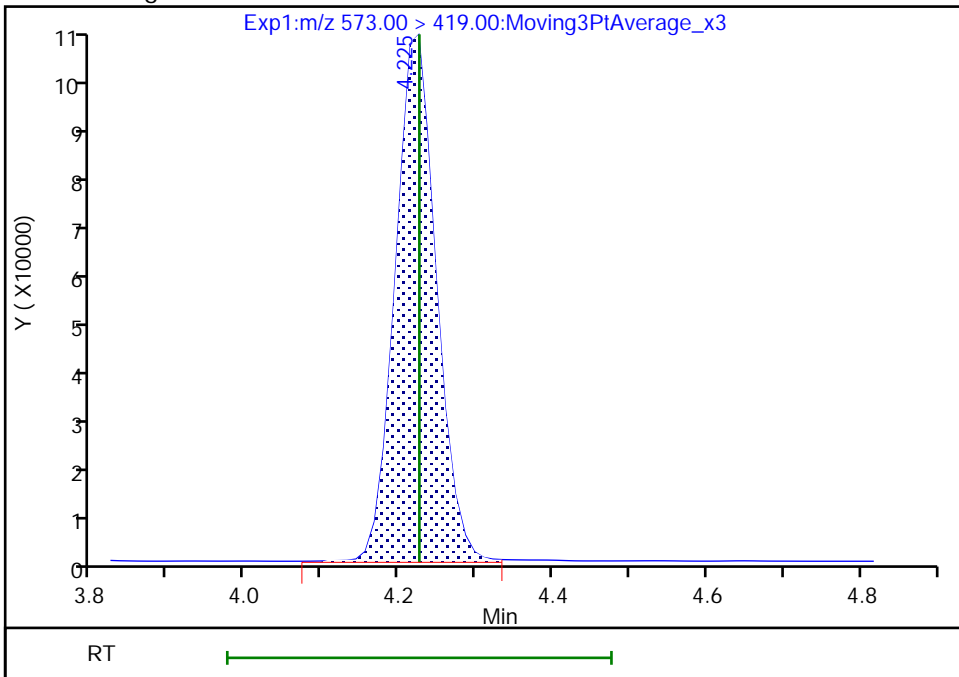
RT: 4.23
 Area: 389906
 Amount: 1.505462
 Amount Units: ng/ml

Processing Integration Results



RT: 4.23
 Area: 388253
 Amount: 1.499079
 Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:53:33
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
 Page 495 of 742

Eurofins Burlington

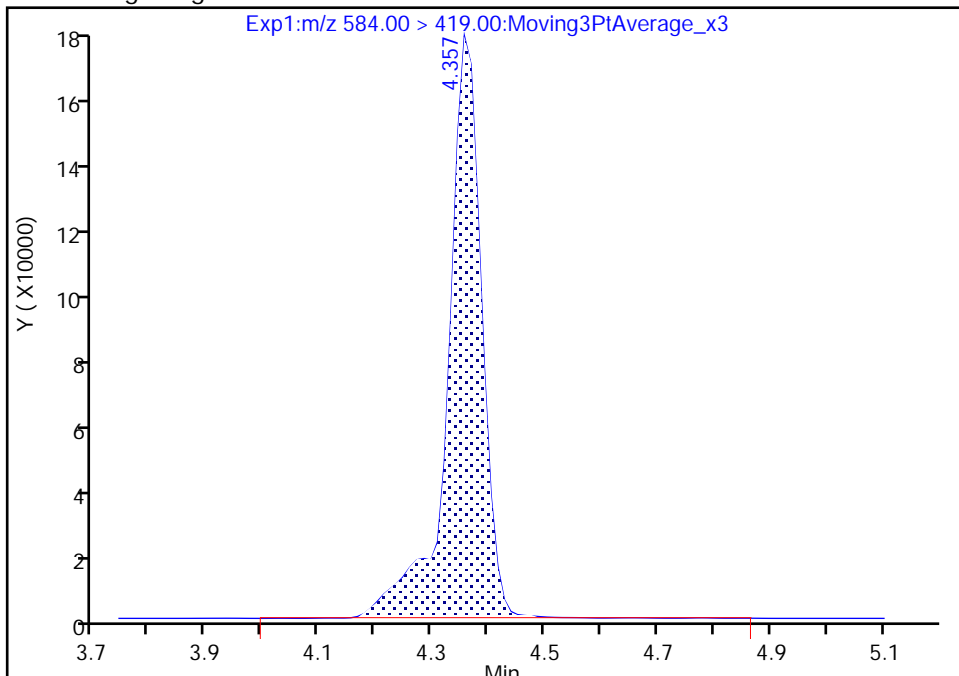
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

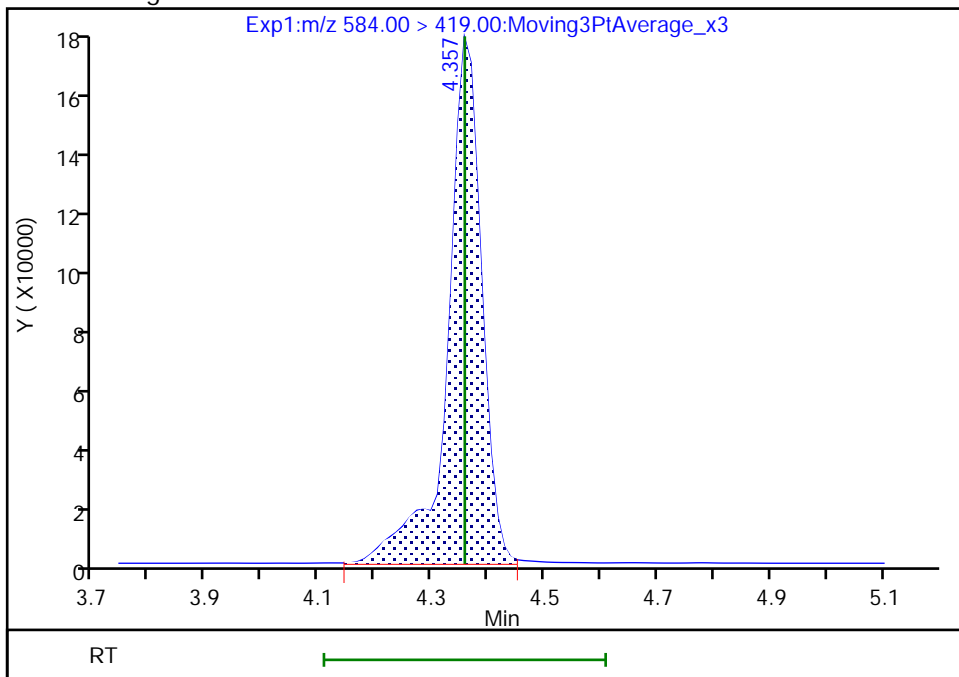
RT: 4.36
Area: 717659
Amount: 2.468907
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 713202
Amount: 2.453574
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:56:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

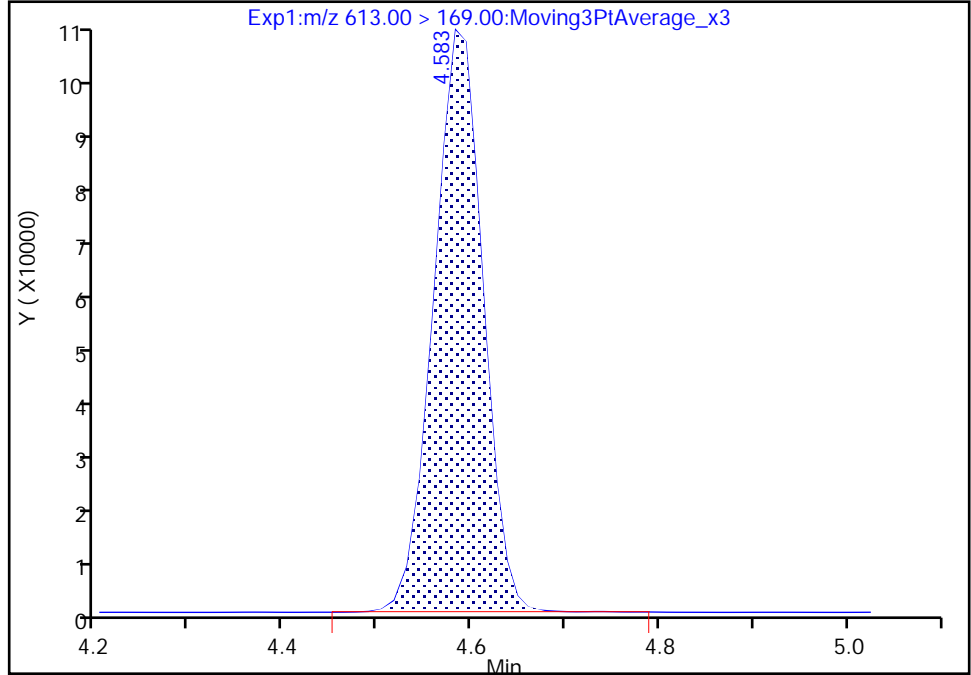
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

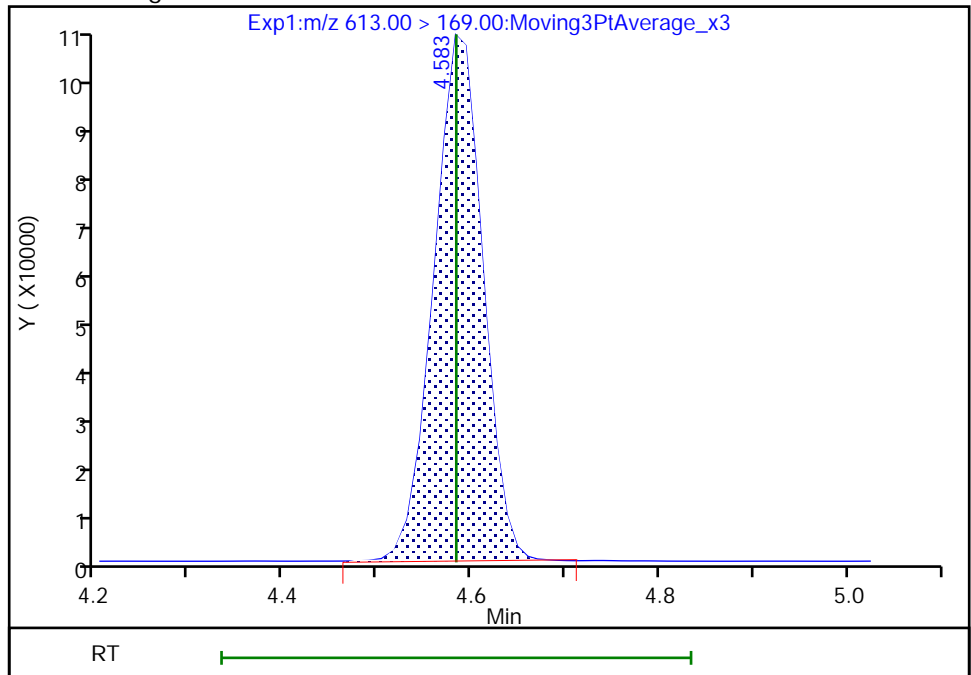
RT: 4.58
Area: 378169
Amount: 2.240394
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 377600
Amount: 2.232543
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:56:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

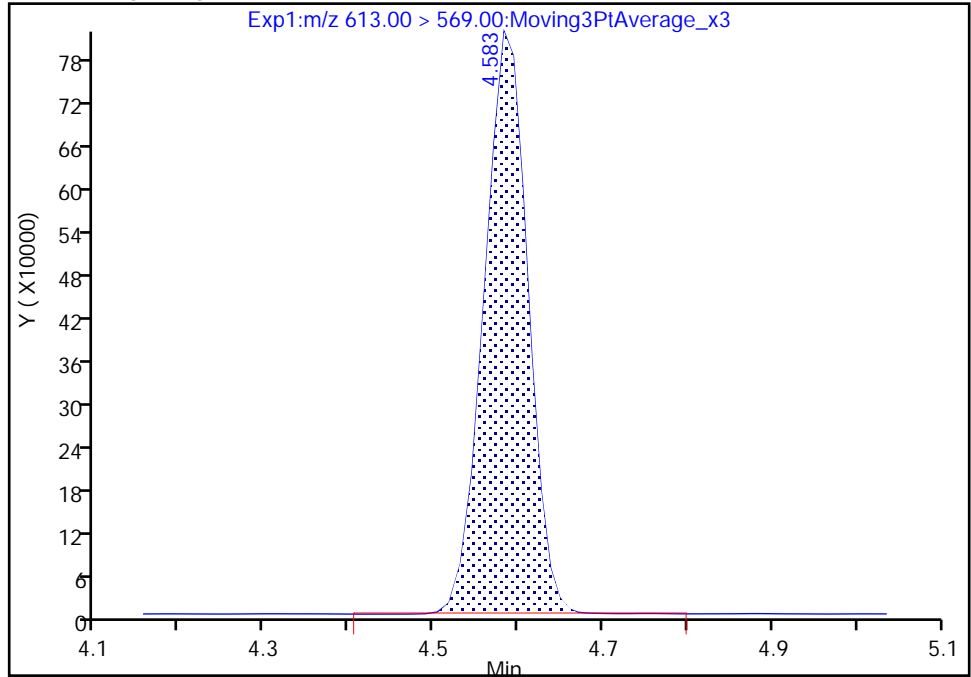
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

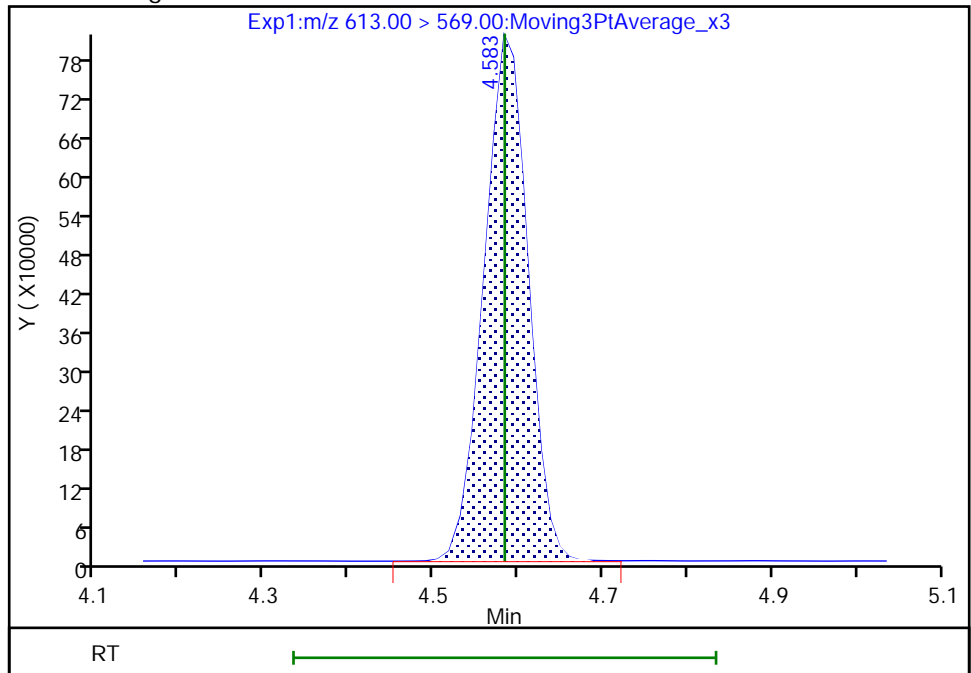
RT: 4.58
Area: 2940463
Amount: 2.240394
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 2930159
Amount: 2.232543
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:56:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

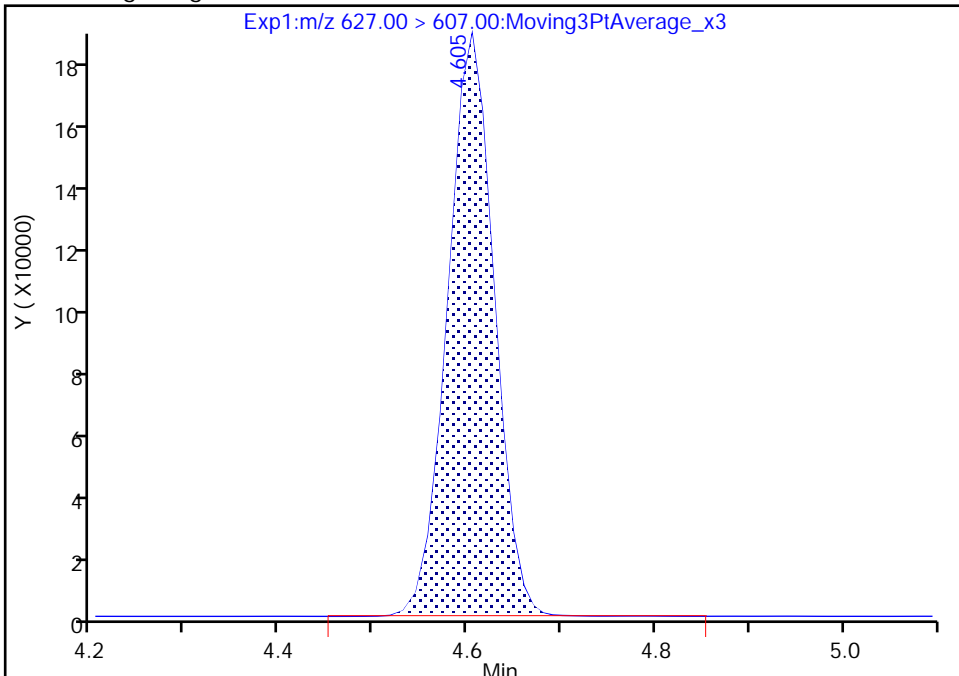
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

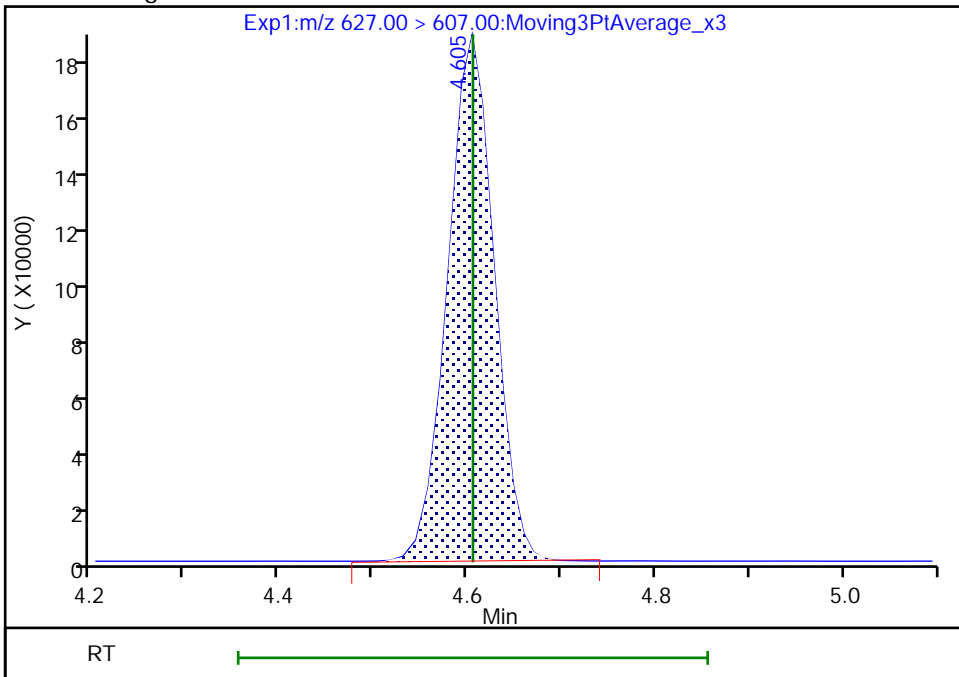
RT: 4.60
Area: 626967
Amount: 2.767102
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 626012
Amount: 2.762887
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:56:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

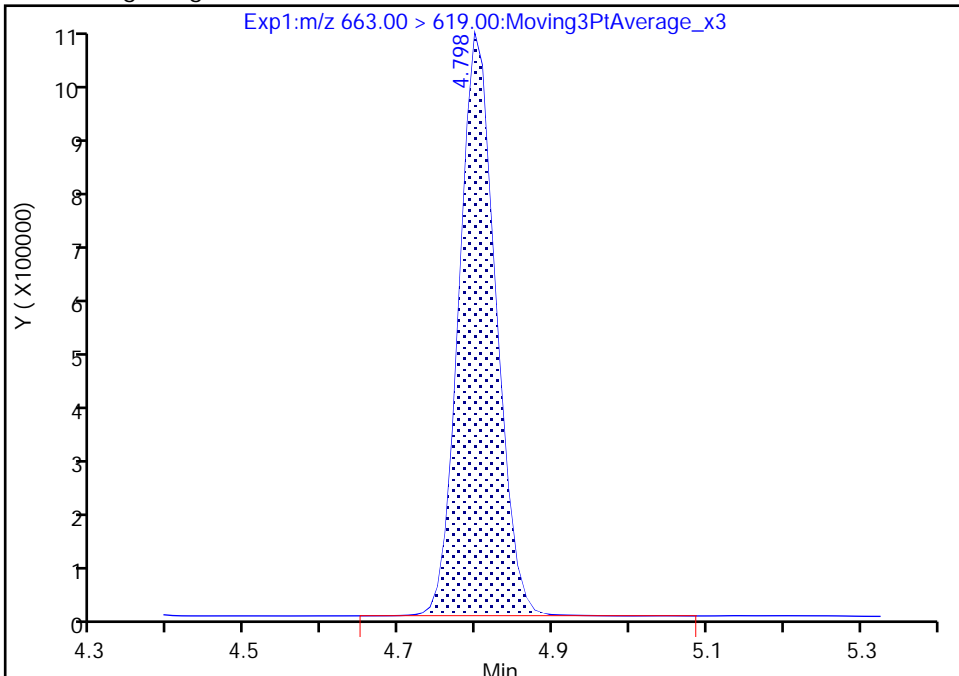
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

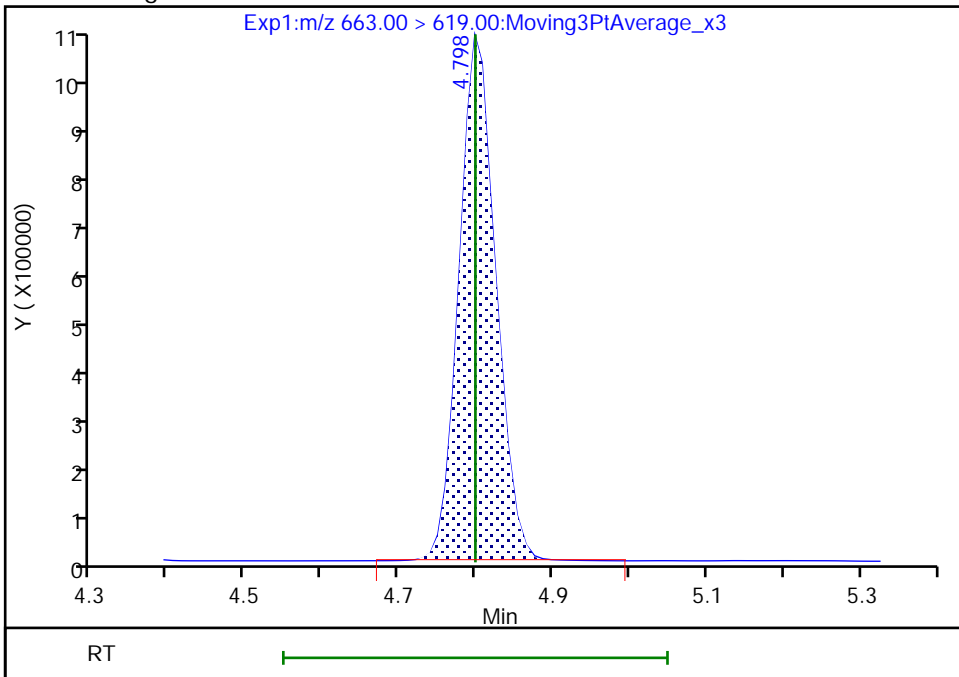
RT: 4.80
Area: 3378035
Amount: 2.576862
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 3375607
Amount: 2.575010
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:56:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

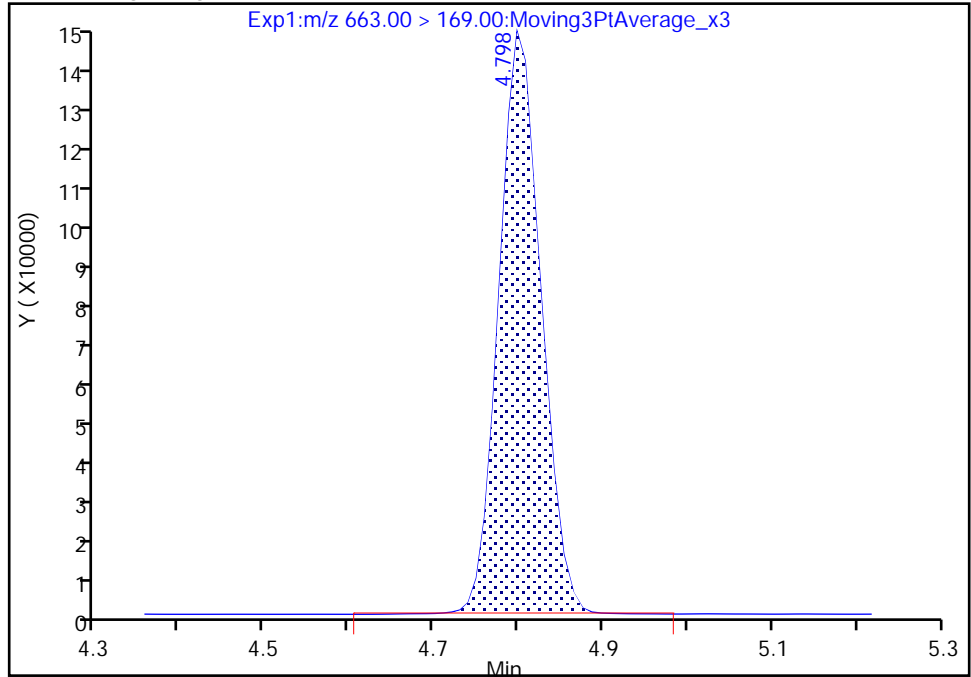
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

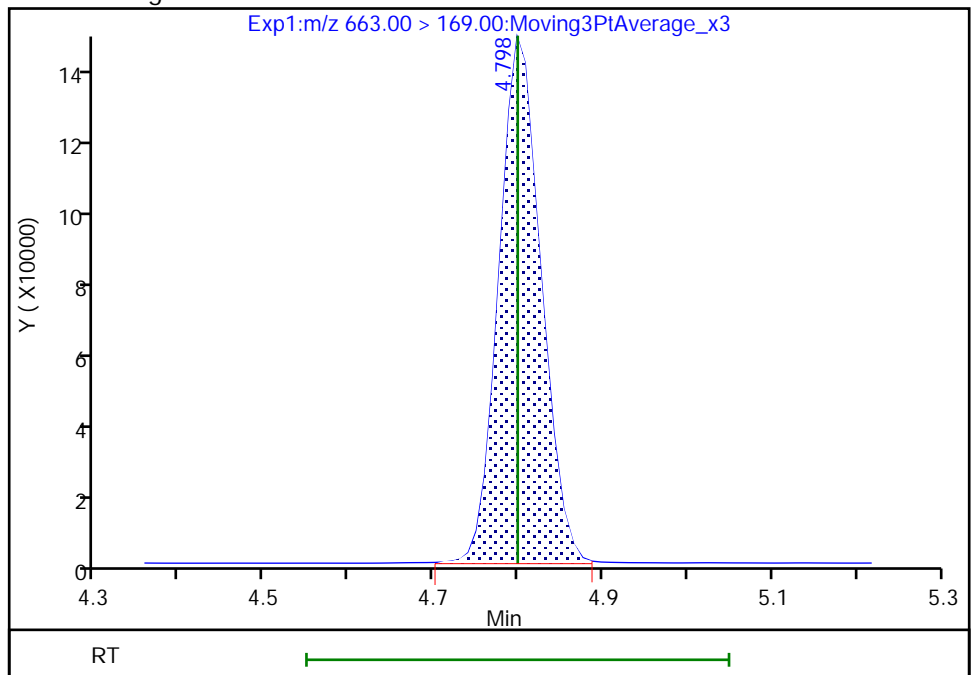
RT: 4.80
Area: 495665
Amount: 2.576862
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 494489
Amount: 2.575010
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:56:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

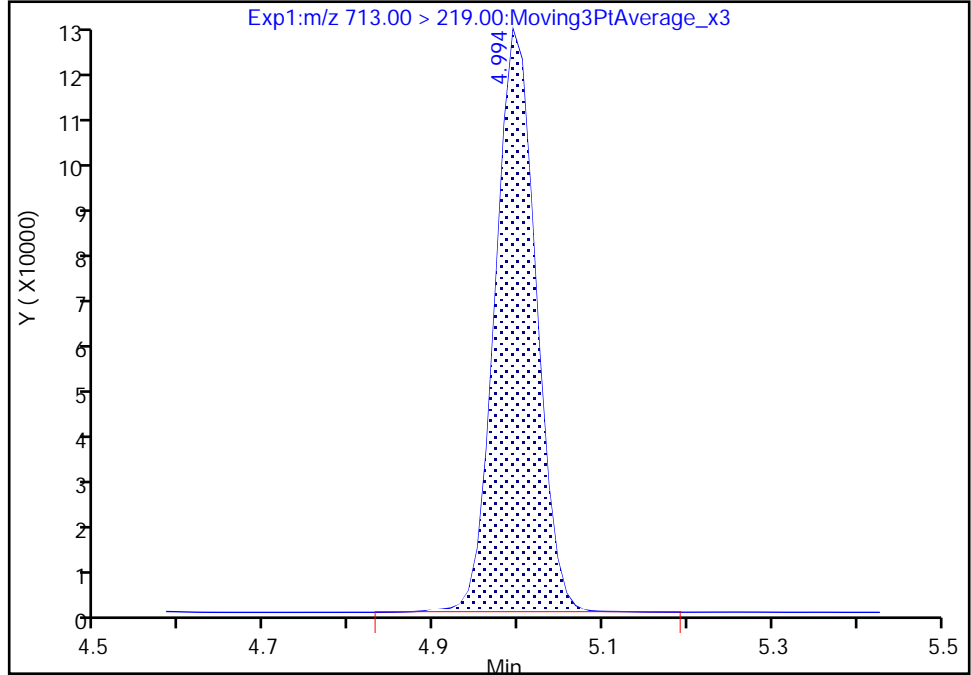
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

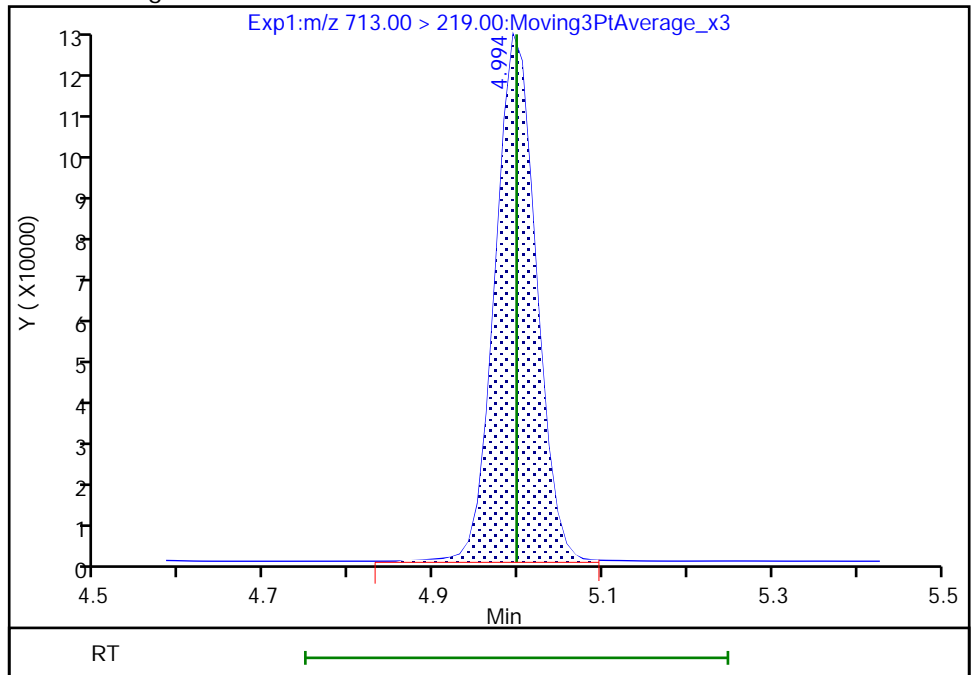
RT: 4.99
Area: 411348
Amount: 2.246924
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 410911
Amount: 2.246924
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:56:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

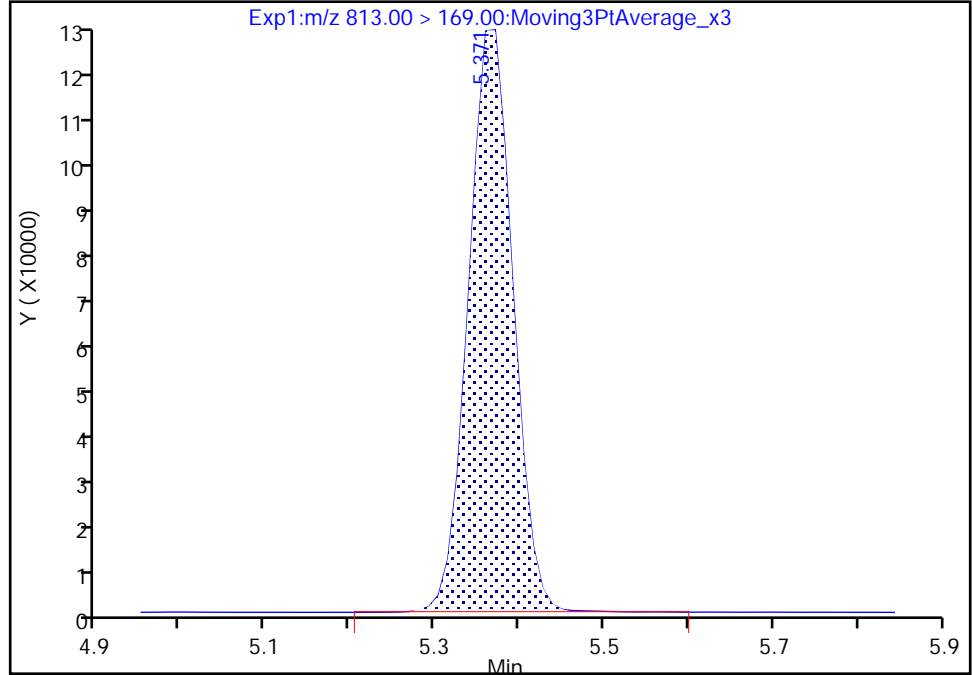
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

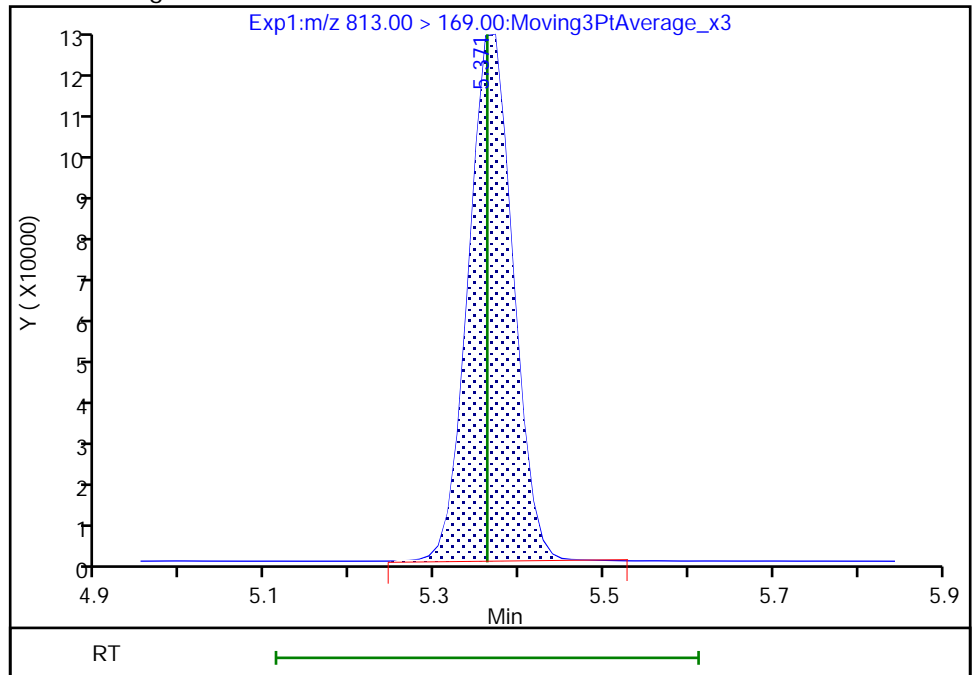
RT: 5.37
Area: 467318
Amount: 2.359978
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 466397
Amount: 2.359978
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:57:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

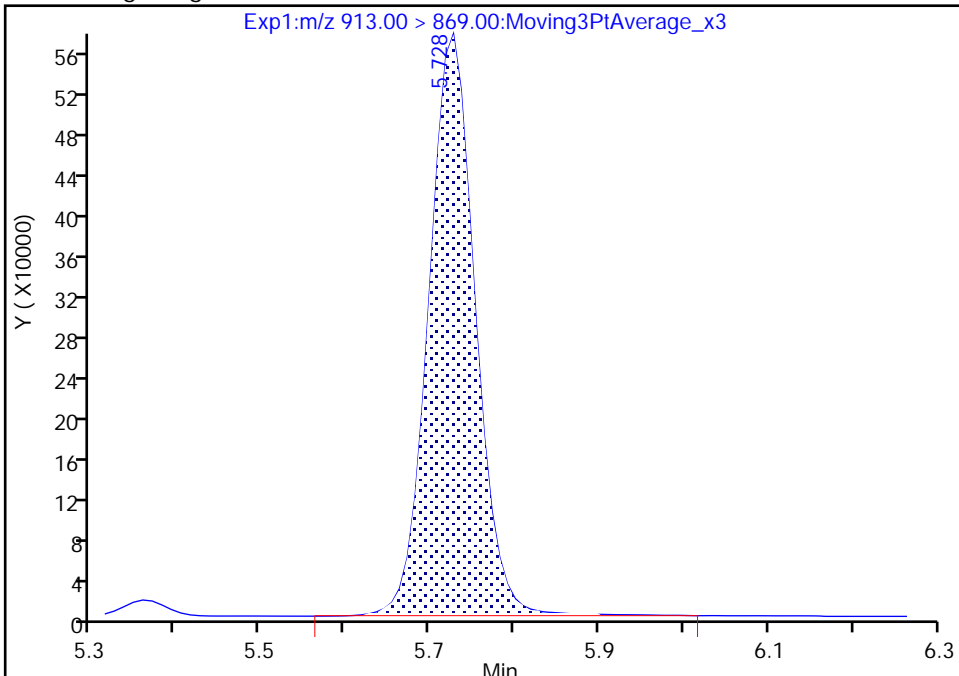
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

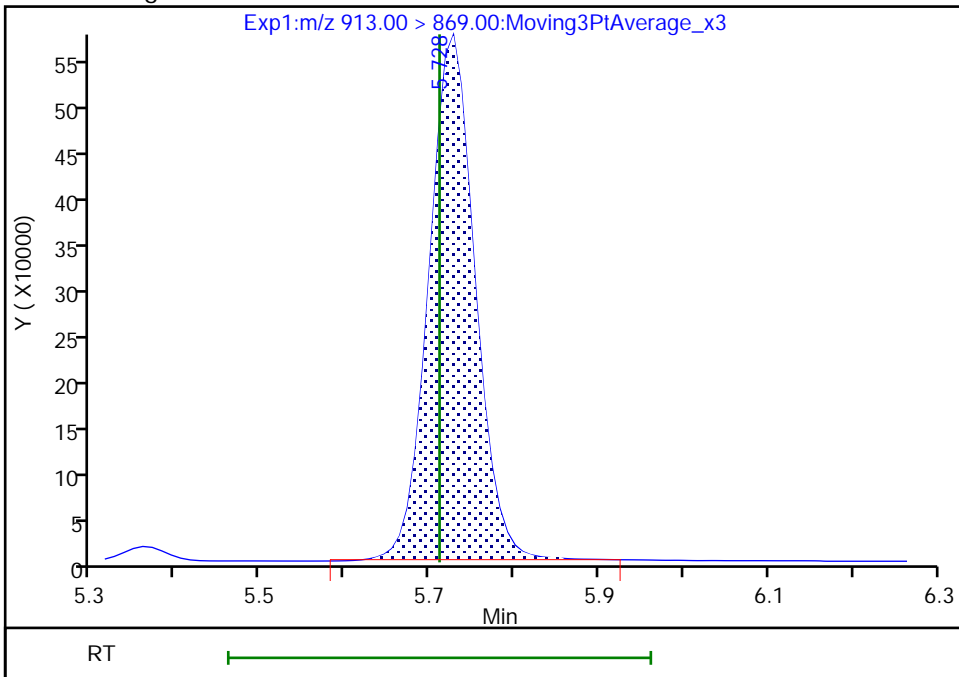
RT: 5.73
Area: 2219024
Amount: 1.996616
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 2202732
Amount: 1.981957
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:57:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

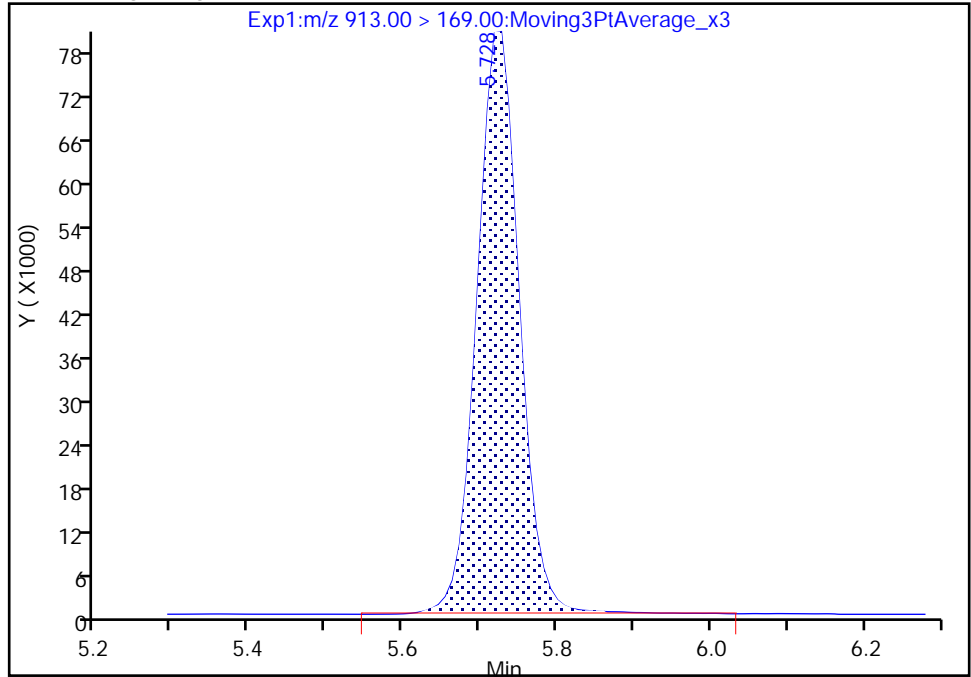
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A30.d
Injection Date: 26-Jan-2023 23:43:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 27 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

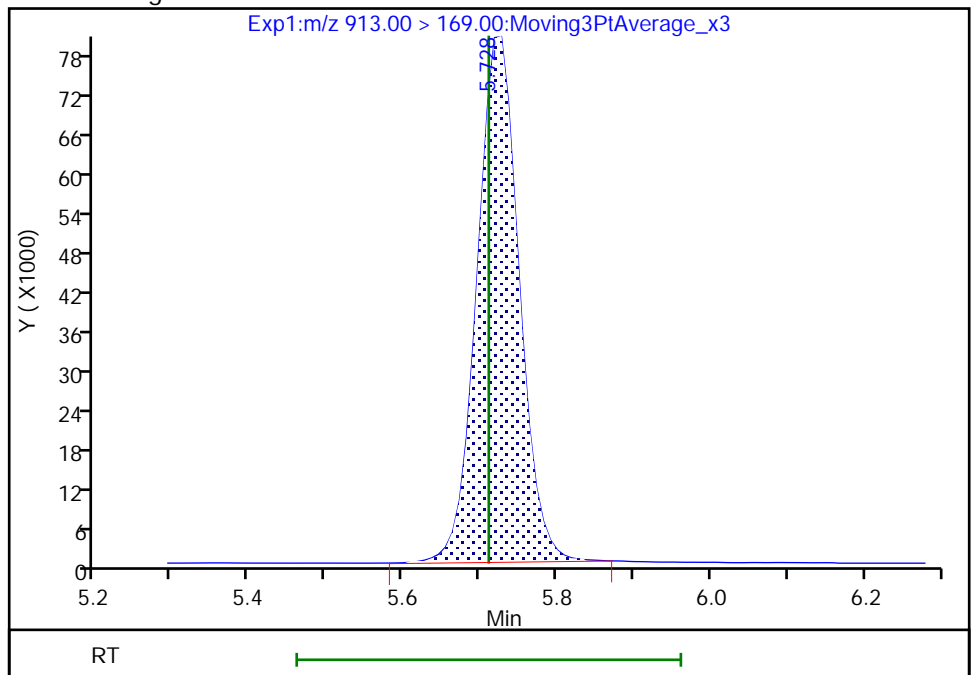
RT: 5.73
Area: 308624
Amount: 1.996616
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 304761
Amount: 1.981957
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:57:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187806/1-A
 Matrix: Solid Lab File ID: PA230126A06.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00 (g) Date Analyzed: 01/26/2023 20:27
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083
27619-97-2	6:2 FTS	2.00	U	2.00	0.057
39108-34-4	8:2 FTS	2.00	U	2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187806/1-A
 Matrix: Solid Lab File ID: PA230126A06.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00(g) Date Analyzed: 01/26/2023 20:27
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	63		50-150
STL01892	13C4 PFHpA	79		50-150
STL00990	13C4 PFOA	79		50-150
STL00991	13C4 PFOS	76		50-150
STL00995	13C5 PFNA	76		50-150
STL00992	13C4 PFBA	78		50-150
STL00993	13C2 PFHxA	83		50-150
STL00996	13C2 PFDA	82		50-150
STL00997	13C2 PFUnA	81		50-150
STL00998	13C2 PFDoA	80		50-150
STL01056	13C8 FOSA	67		50-150
STL01893	13C5 PFPeA	75		50-150
STL02116	13C2 PFTeDA	79		50-150
STL02118	d3-NMeFOSAA	99		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	84		50-150
STL02280	M2-8:2 FTS	79		50-150
STL02337	13C3 PFBS	70		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
 Lims ID: MB 200-187806/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Jan-2023 20:27:20 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-187806/1-A
 Misc. Info.: 200-0054135-006 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 10:51:10

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.076	2.094	-0.018	0.605	1596532	0.9697	77.6	23363	
2 Perfluorobutanoic acid	212.90 > 169.00	2.076	2.094	-0.018	1.000	57804	0.004375		6.2	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.694	1250811	0.9399	75.2	6045	
4 Perfluoropentanoic acid	262.90 > 219.00	2.397	2.370	0.027	1.006	12746	0.0111		0.3	M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	1193176	0.8167	70.3	134881	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.410	2.384	0.026	1.006	1789	0.001627	Target=2.10	5.2	M
	298.90 > 99.00	2.410	2.384	0.026	1.006	764	2.34(1.05-3.15)		0.4	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.780	91467	0.7743	66.3	173	
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.791	1439937	1.04	83.3	4473	
D 64 13C3 HFPO-DA	287.00 > 169.00	2.817	2.806	0.011	0.821	210406	0.8782	70.3	2653	
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.897	786509	0.7398	62.6	4171	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	3.080	3.069	0.011	1.000	3922	0.005372	Target=3.18	21.8	M
	399.00 > 99.00	3.080	3.069	0.011	1.000	2461	1.59(1.59-4.77)		5.9	M
D 9 13C4 PFHpA	367.00 > 322.00	3.080	3.069	0.011	0.897	1360746	0.9829	78.6	3836	
D 12 M2-6:2 FTS	429.00 > 81.00	3.425	3.417	0.008	0.997	166315	0.99	83.6	1362	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.416	3.417	-0.001	0.997	915	0.002853			1.5	M
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	1.000	1448600	0.9876		79.0	5586	
* 62 13C2 PFOA										
415.00 > 370.00	3.434	3.426	0.008		1789915	1.25			7225	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.093	584691	0.9046		75.7	4124	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.763	3.754	0.009	1.003	10171	0.0171	Target=4.23		10.0	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	2212		4.60(2.11-6.34)		10.1	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.099	1358495	0.9506		76.0	8511	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.052	4.043	0.009	1.080	572	0.001159	Target=2.37		8.5	M
549.00 > 99.00	4.052	4.043	0.009	1.080	215		2.66(1.18-3.55)		2.5	M
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.186	1507009	1.03		82.2	15182	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.189	198779	0.9468		79.1	1283	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.096	4.085	0.011	1.003	192	0.000638			2.8	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.144	4.144	0.0	1.003	1040	0.001302			6.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.203	992428	0.8330		66.6	3322	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.226	-0.012	1.227	356688	1.24		99.0	4228	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.003	460	0.001788			1.0	
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.310	4.322	-0.012	1.148	135	0.000367	Target=2.45		4.1	M
599.00 > 99.00	4.310	4.322	-0.012	1.148	93		1.45(1.23-3.68)		1.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.265	1284021	1.01		81.2	9040	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.369	4.358	0.011	1.003	872	0.003729			5.4	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.269	314589	1.14		90.9	787	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.583	4.584	-0.001	1.000	2832	0.002731	Target=8.10		0.4	R
613.00 > 169.00	4.583	4.584	-0.001	1.000	145		19.53(4.05-12.15)		2.3	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.335	1272975	1.00		80.3	3905	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.605	4.606	-0.001	1.128	137	0.000720			3.1	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.005	4.998	0.007	1.002	153	0.001420	Target=0.83		3.0	RM
713.00 > 219.00	4.984	4.998	-0.014	0.998	377		0.41(0.42-1.25)		9.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.454	1078484	0.9884		79.1	4449	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.360	5.362	-0.002	1.000	12666	-0.000142	Target=6.74		2.4	
813.00 > 169.00	5.360	5.362	-0.002	1.000	1655		7.65(3.37-10.11)		28.8	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.561	1109312	0.8295		66.4	4527	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d

Injection Date: 26-Jan-2023 20:27:20

Instrument ID: LC812

Lims ID: MB 200-187806/1-A

Client ID:

Operator ID: LC812user

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

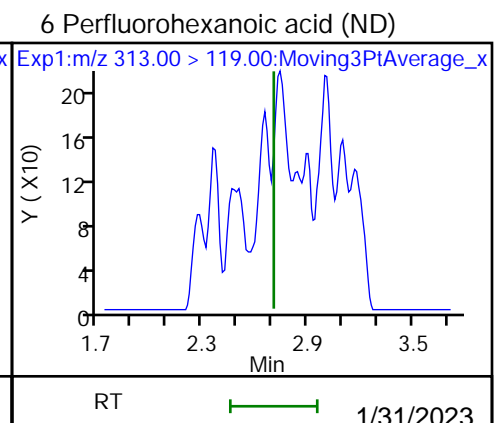
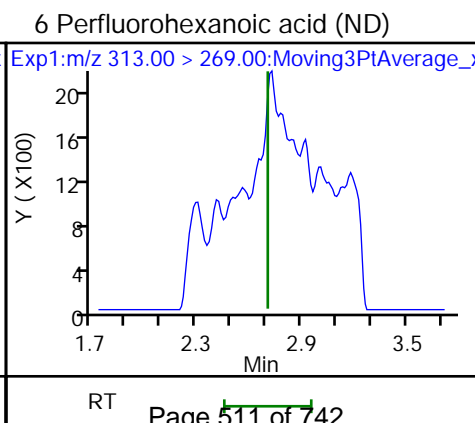
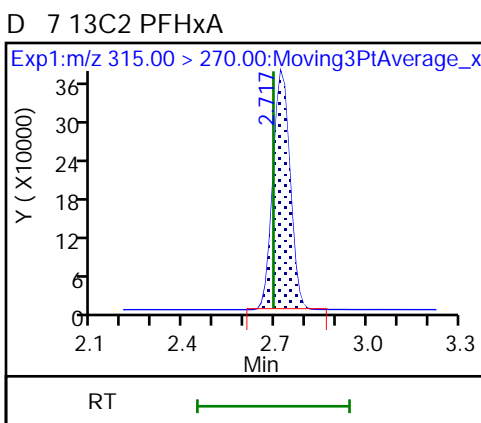
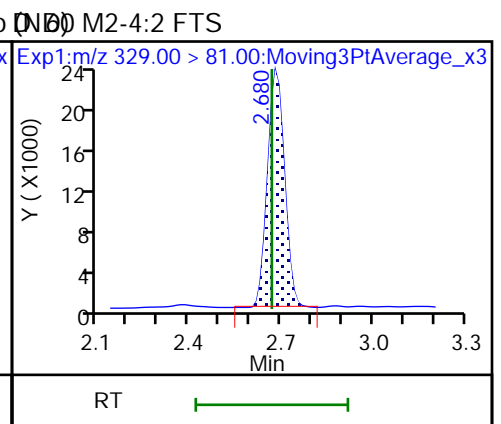
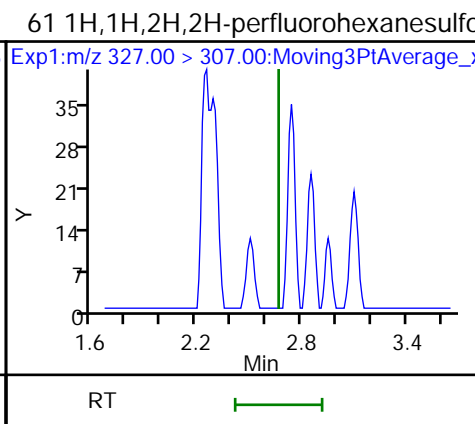
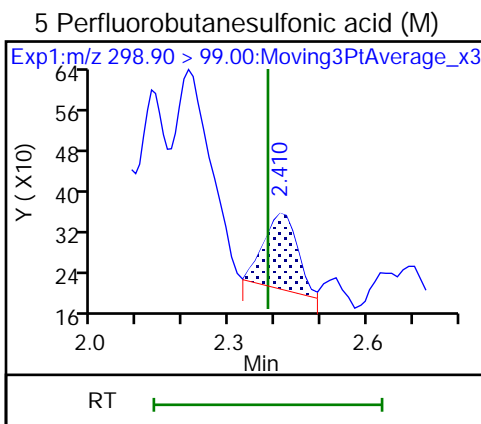
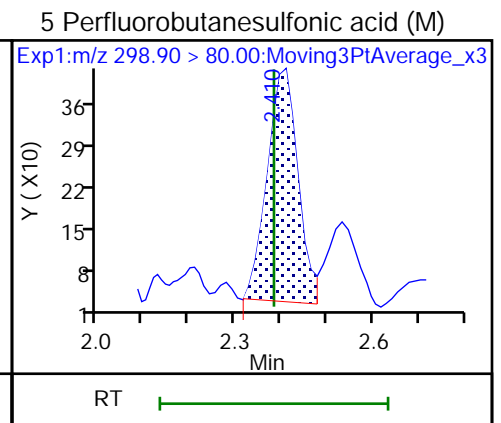
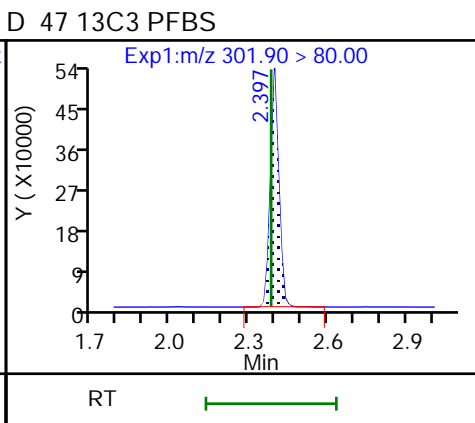
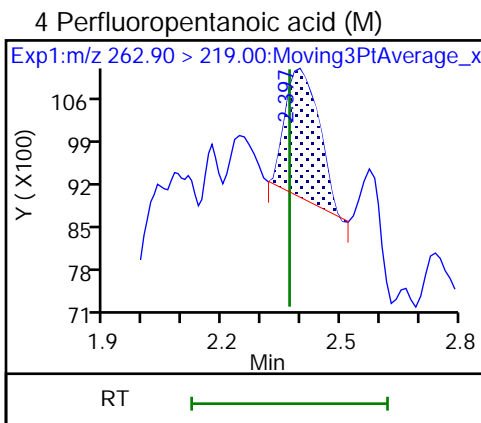
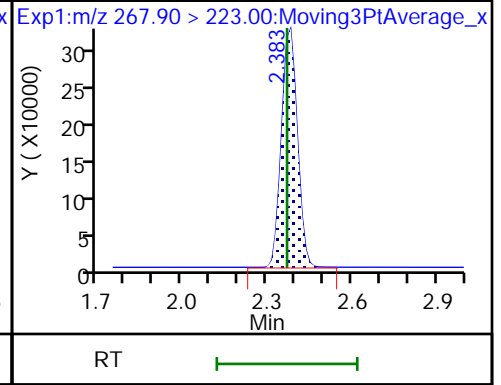
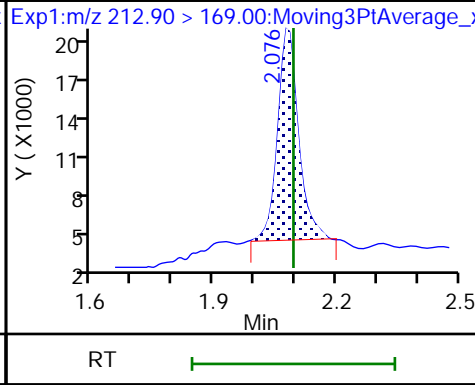
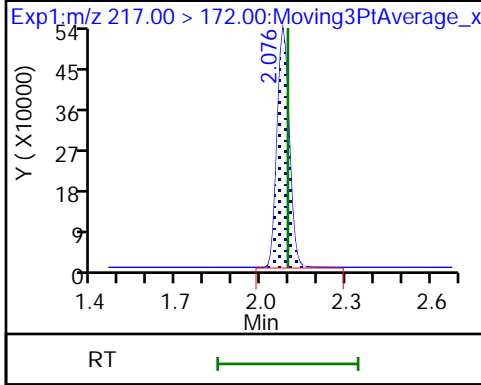
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

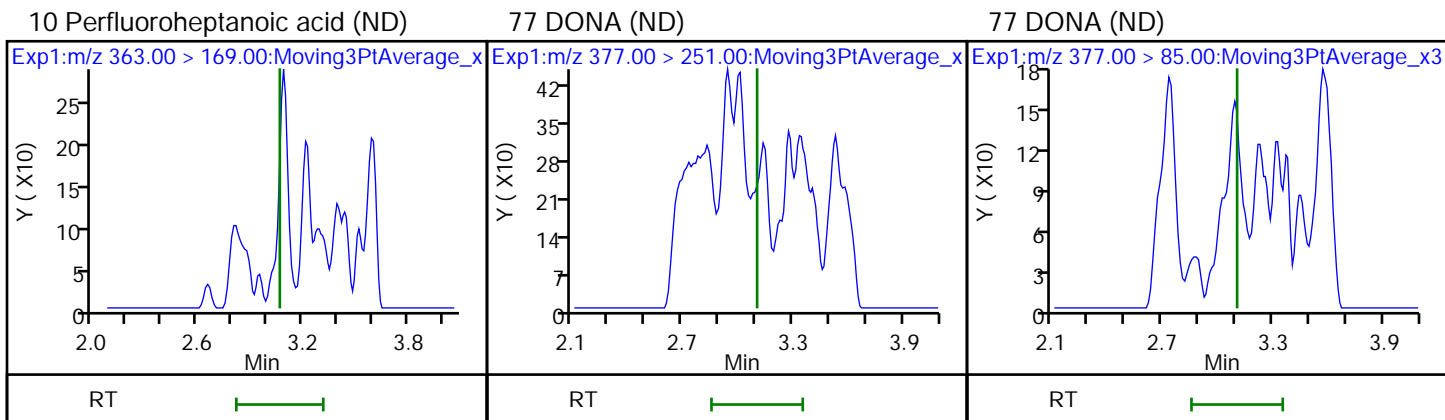
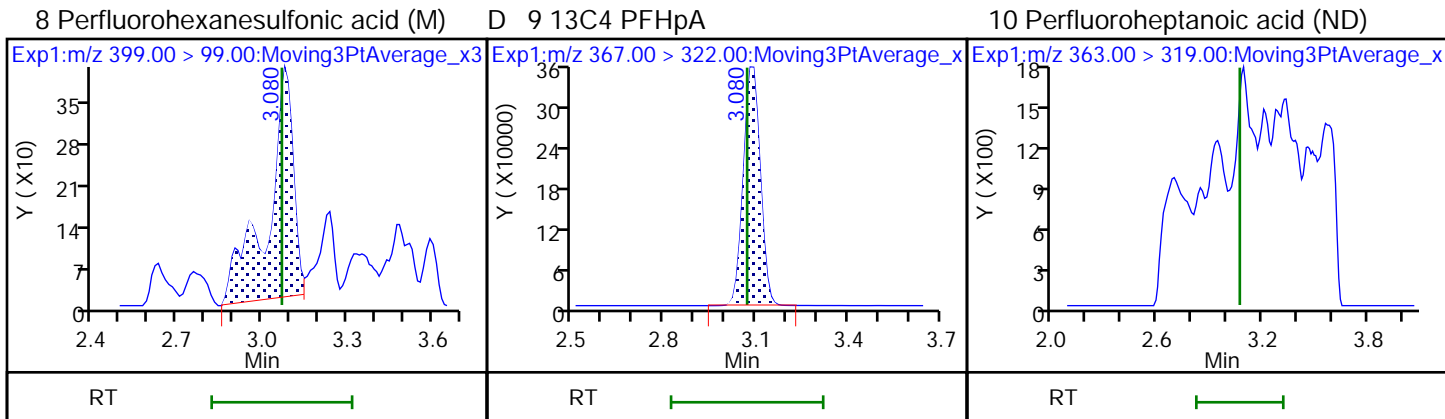
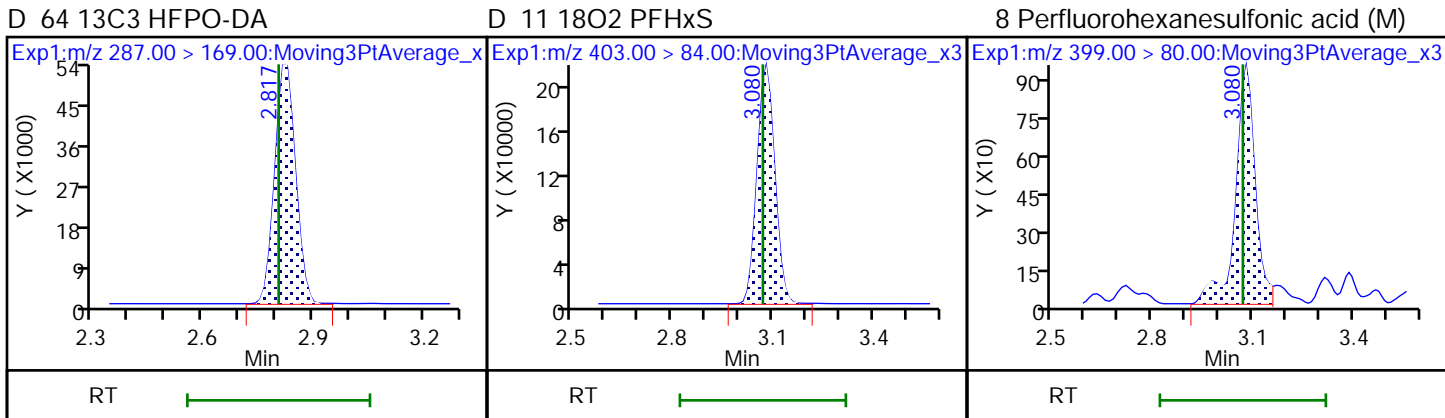
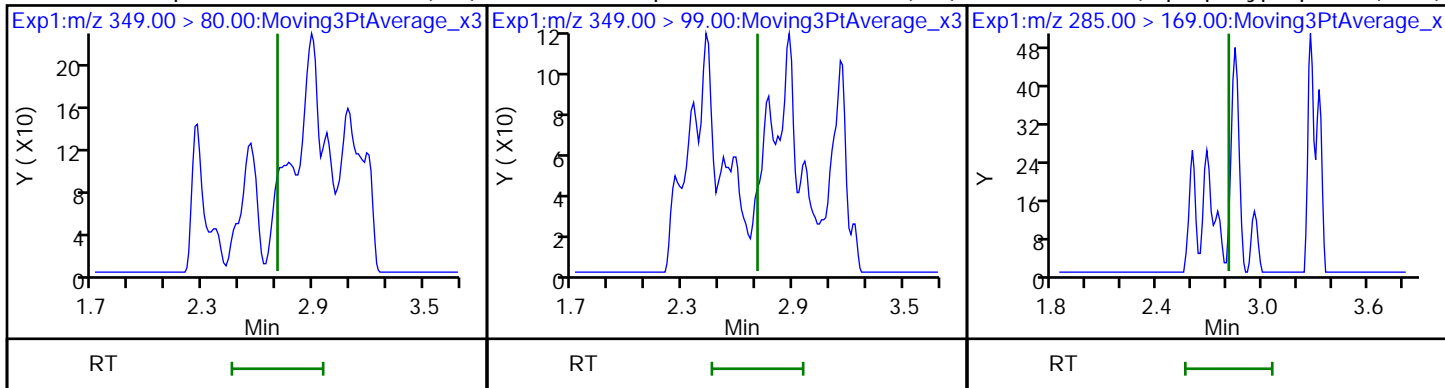
D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

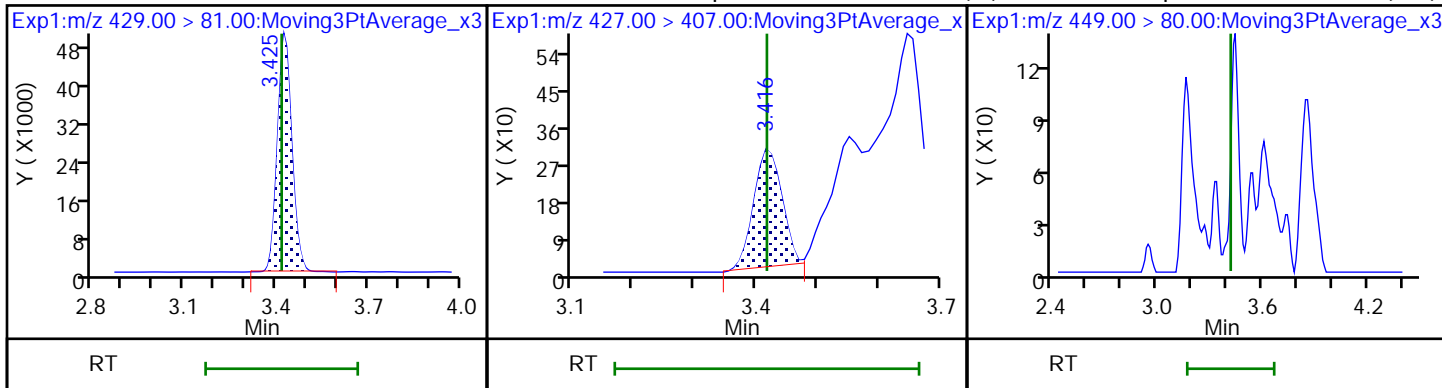


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (ND)



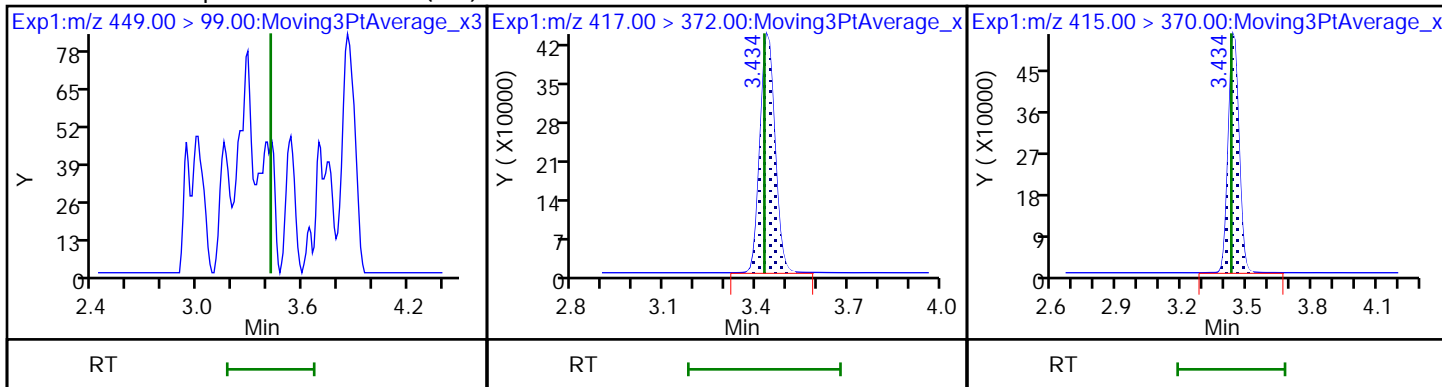
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

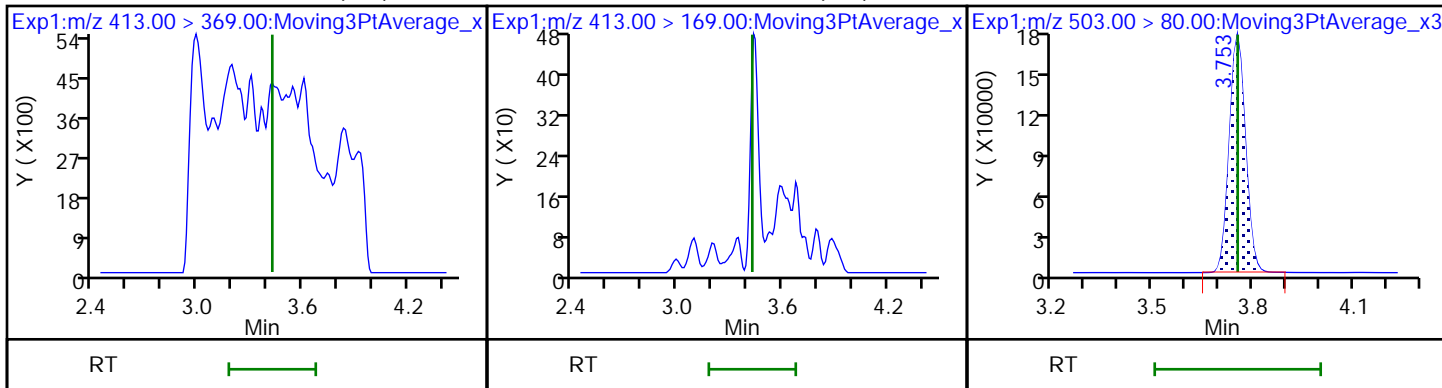
* 62 13C2 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

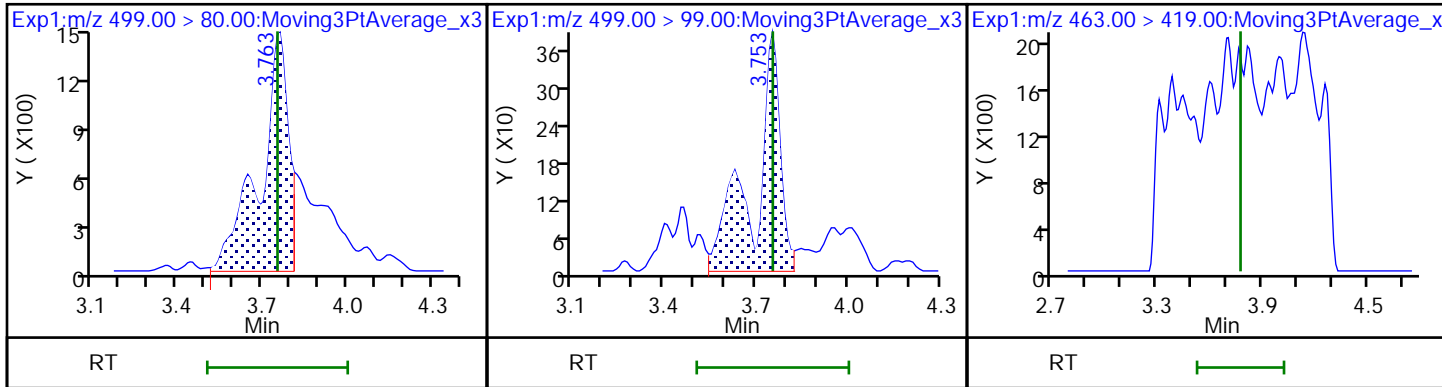
D 18 13C4 PFOS

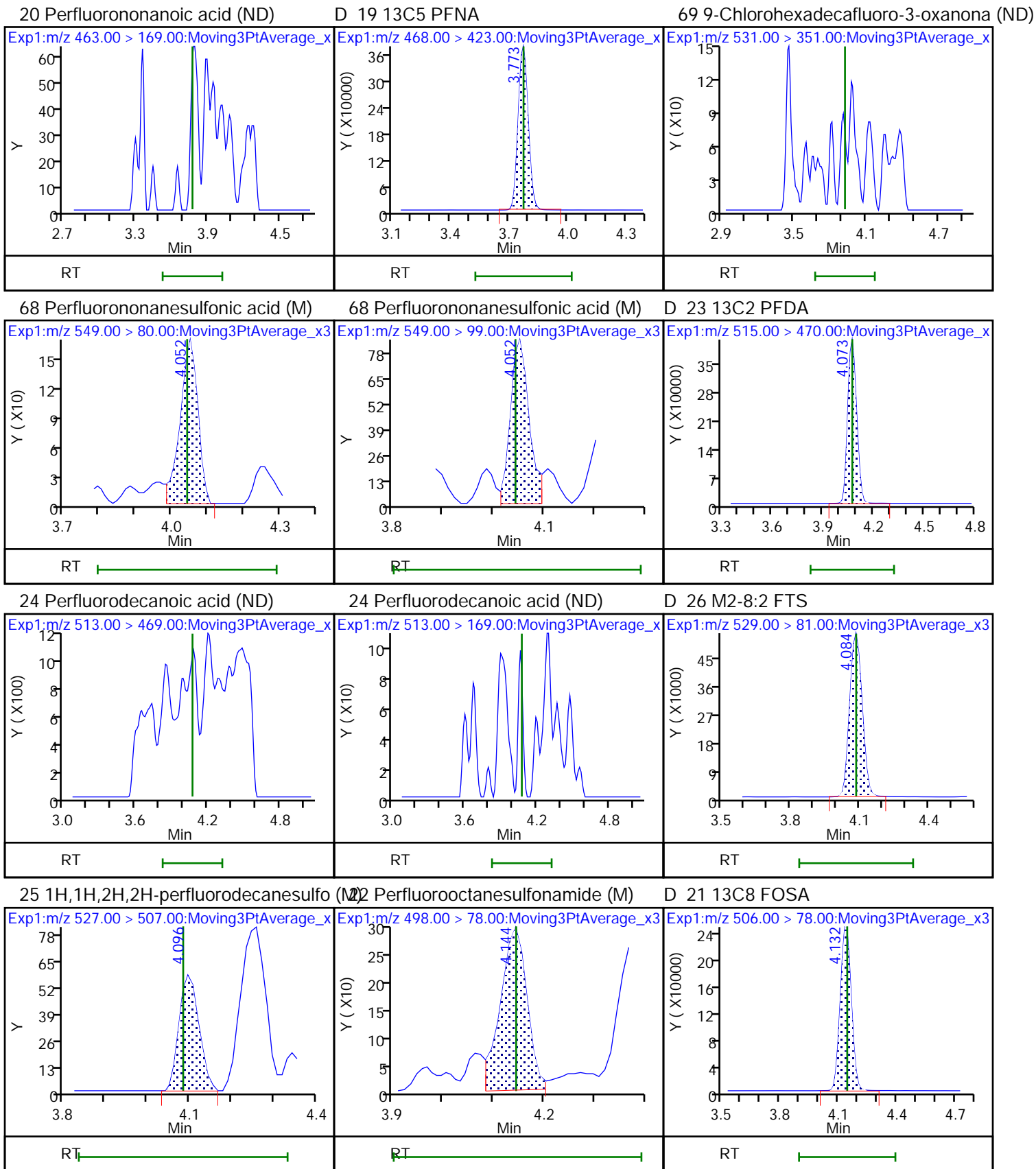


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

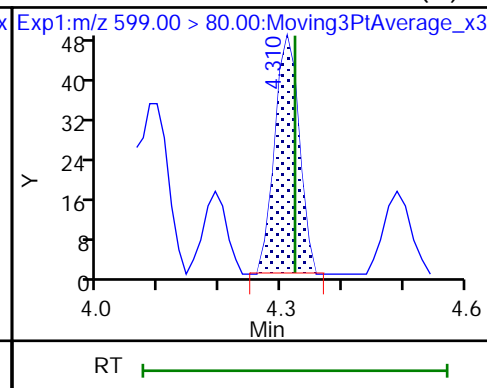
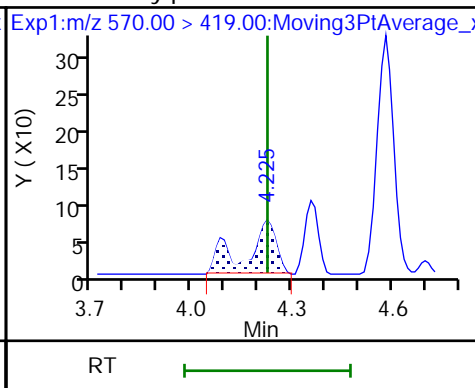
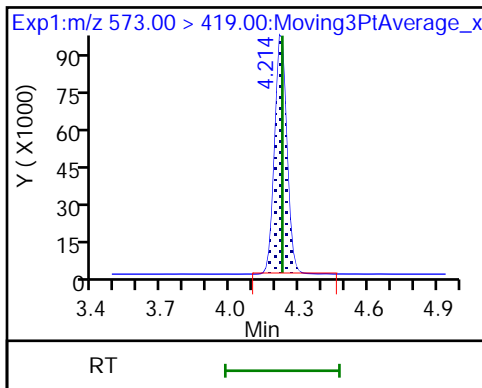




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

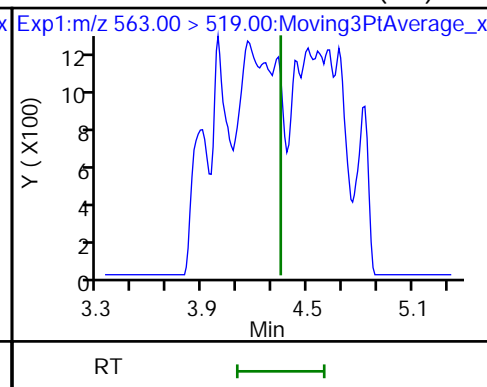
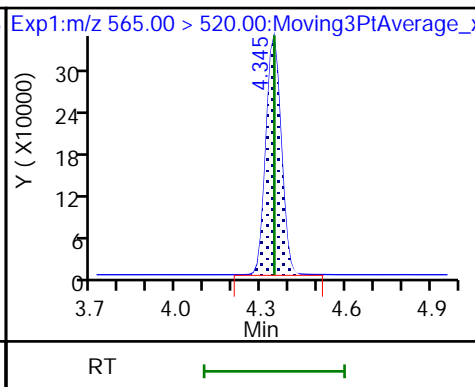
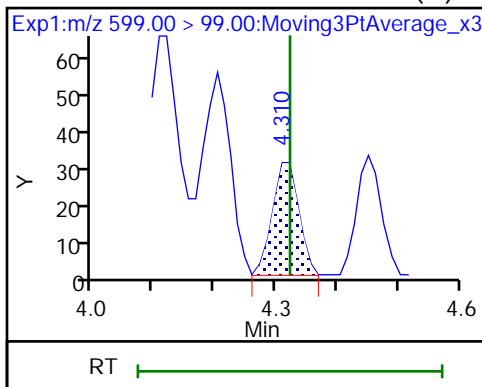
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

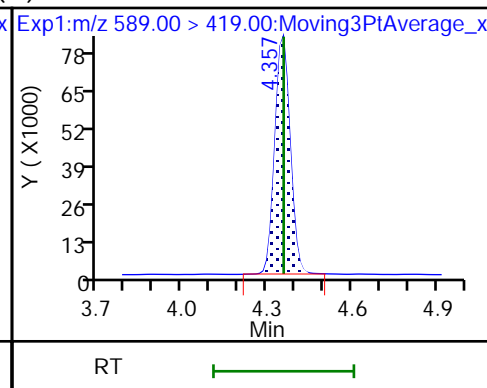
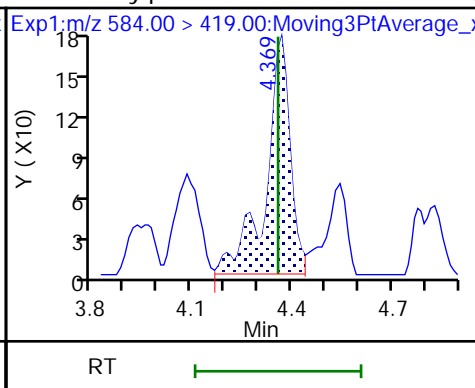
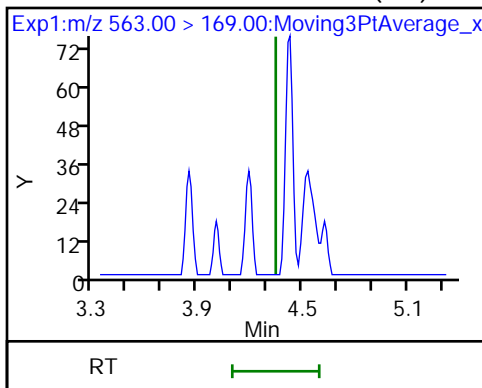
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

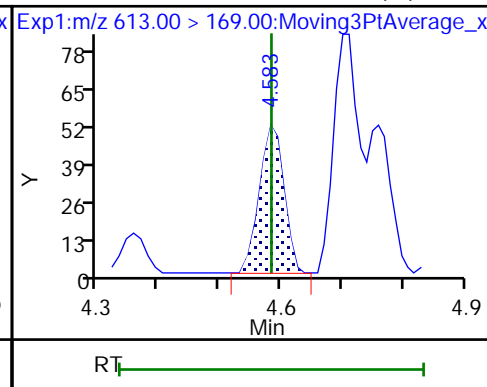
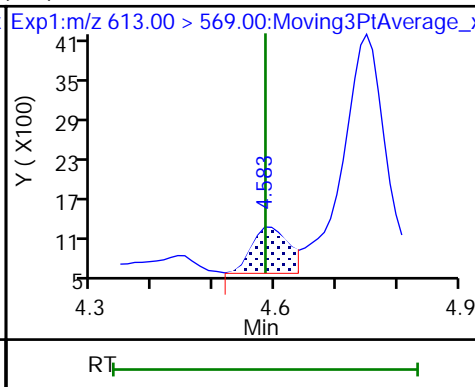
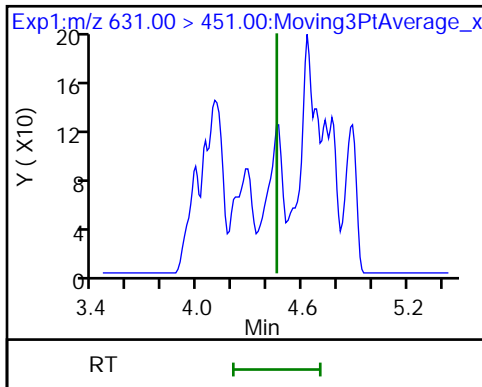
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (NB)

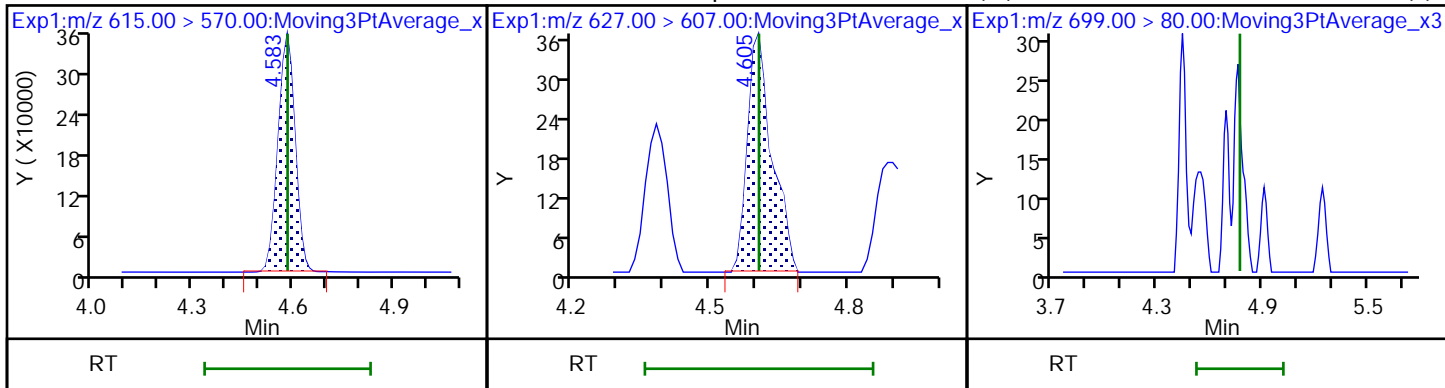
35 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



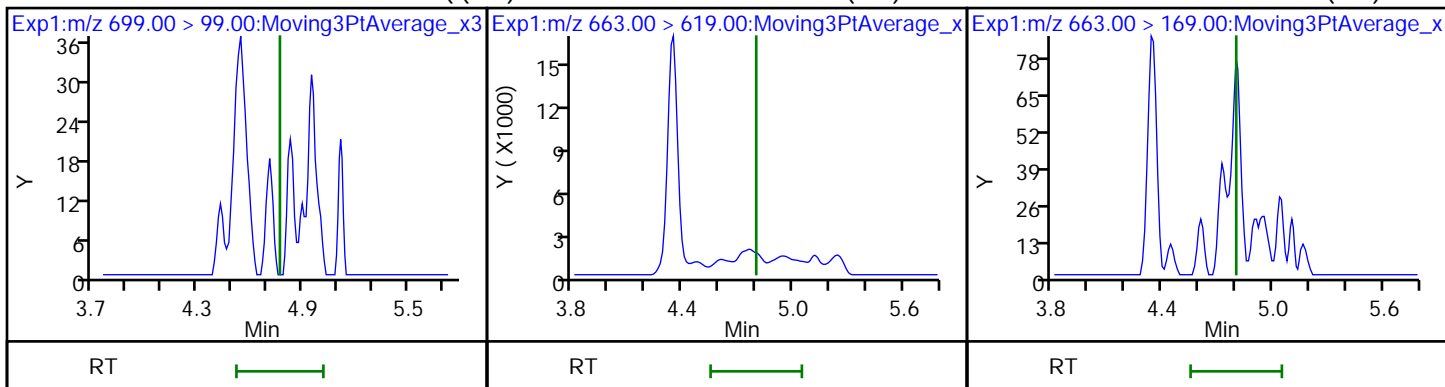
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)

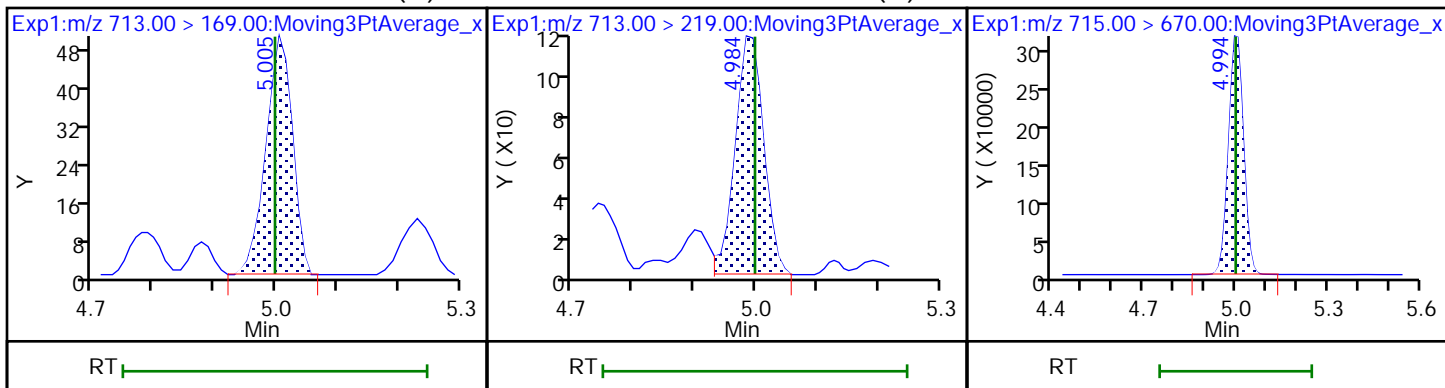
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

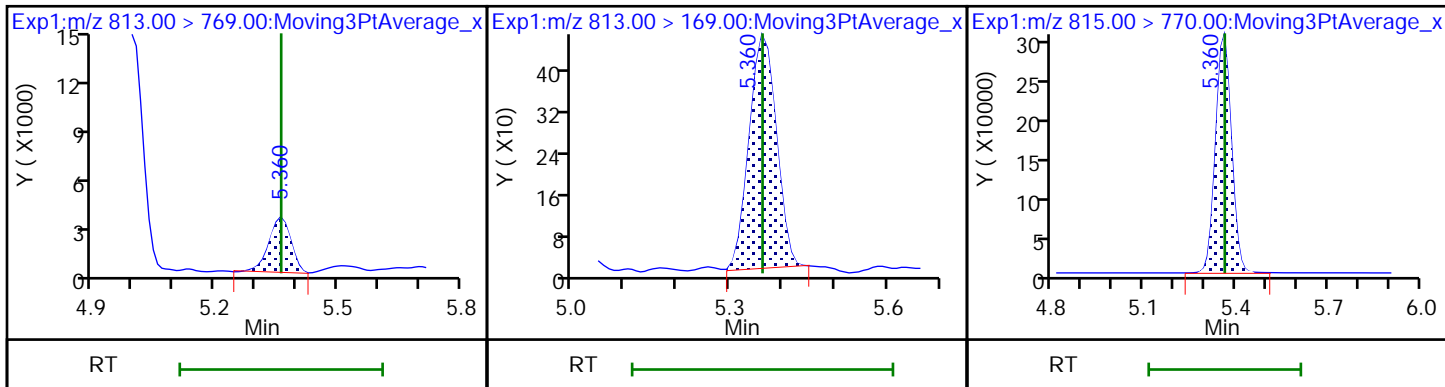
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

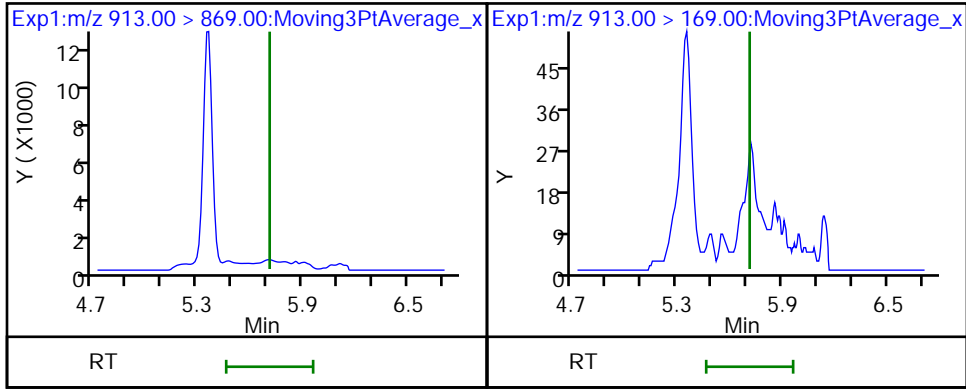
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



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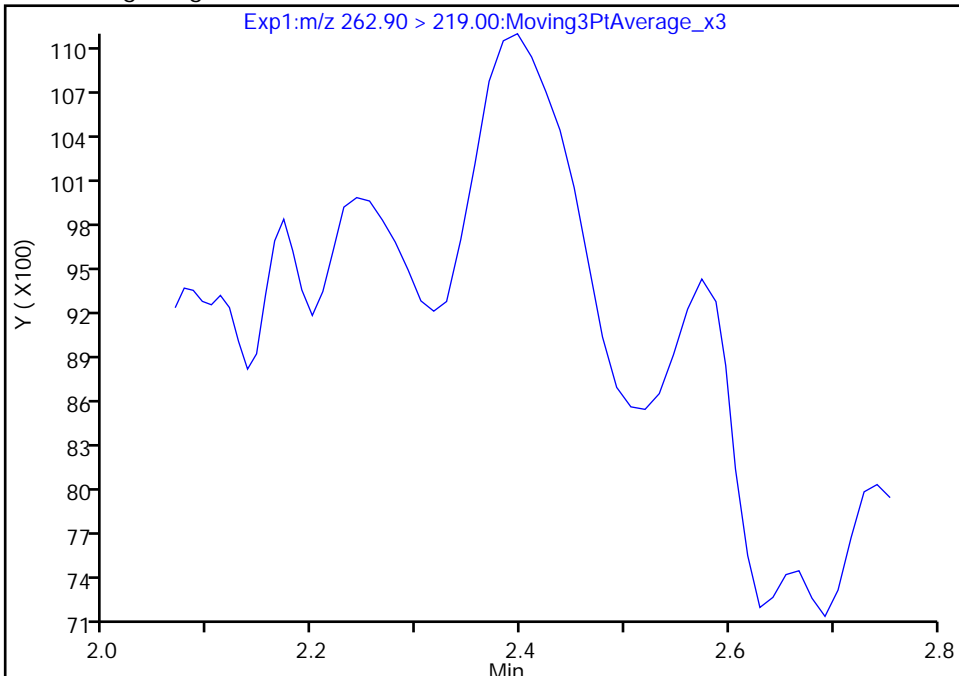
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Injection Date:	26-Jan-2023 20:27:20	Instrument ID:	LC812
Lims ID:	MB 200-187806/1-A		
Client ID:			
Operator ID:	LC812user	ALS Bottle#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	6

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

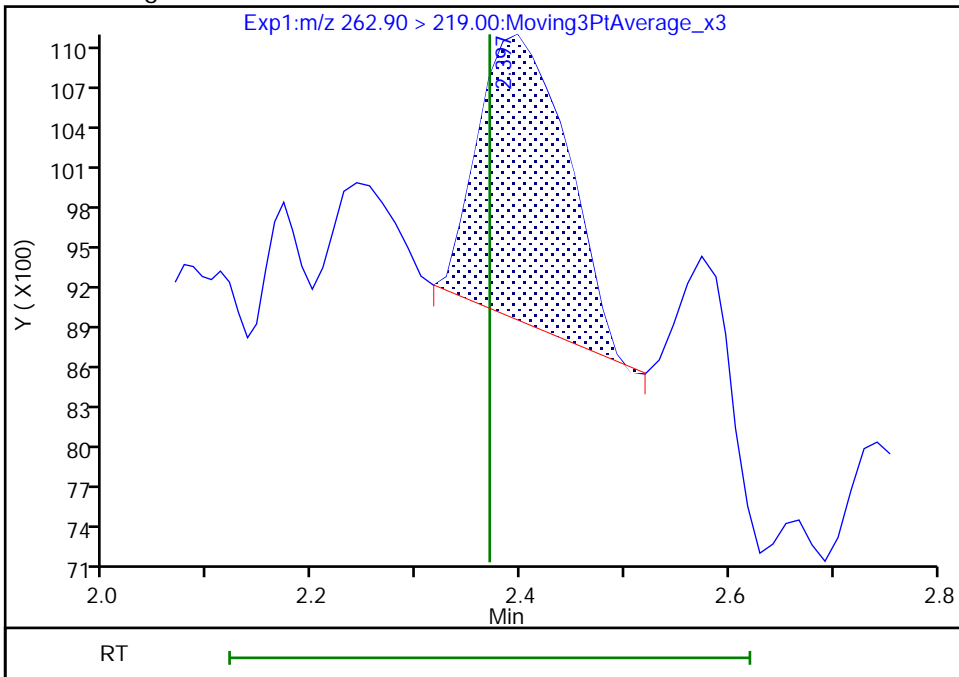
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.40
 Area: 12746
 Amount: 0.011122
 Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:14:42
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

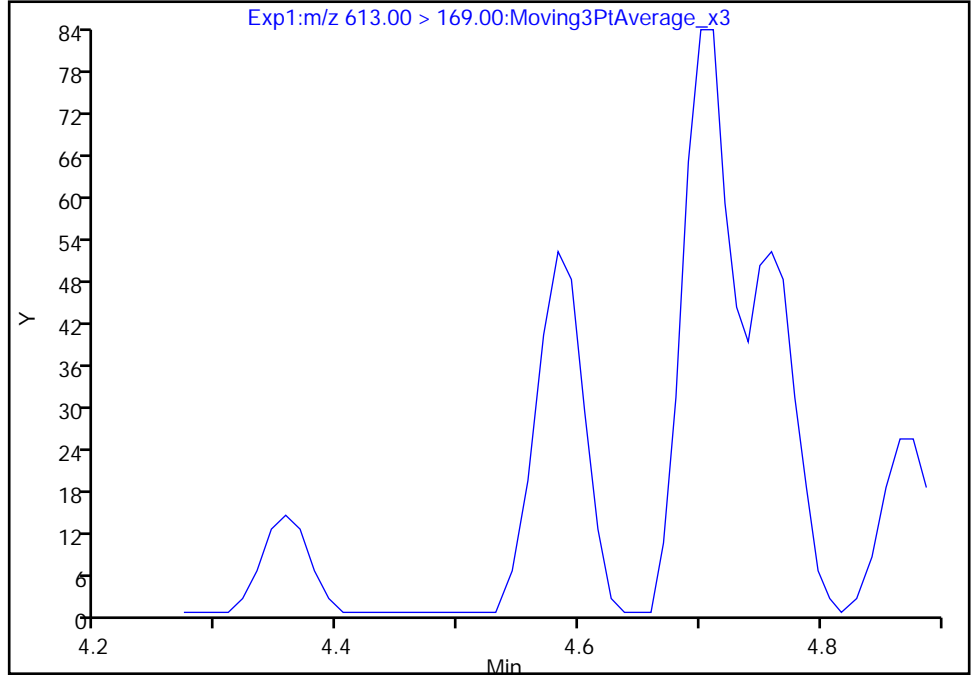
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

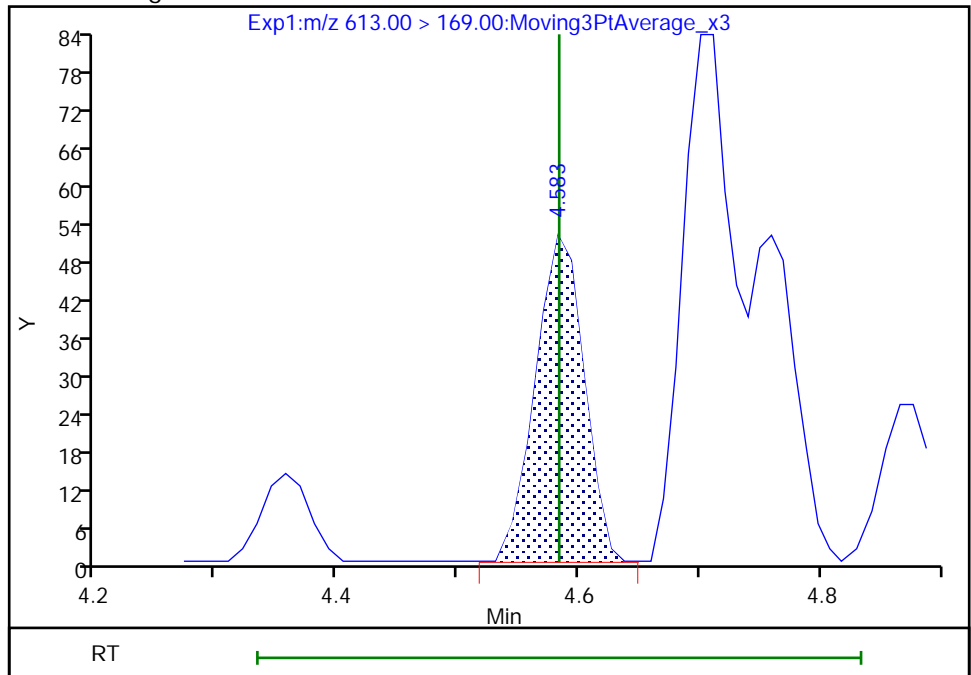
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 145
Amount: 0.002731
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:18:00
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

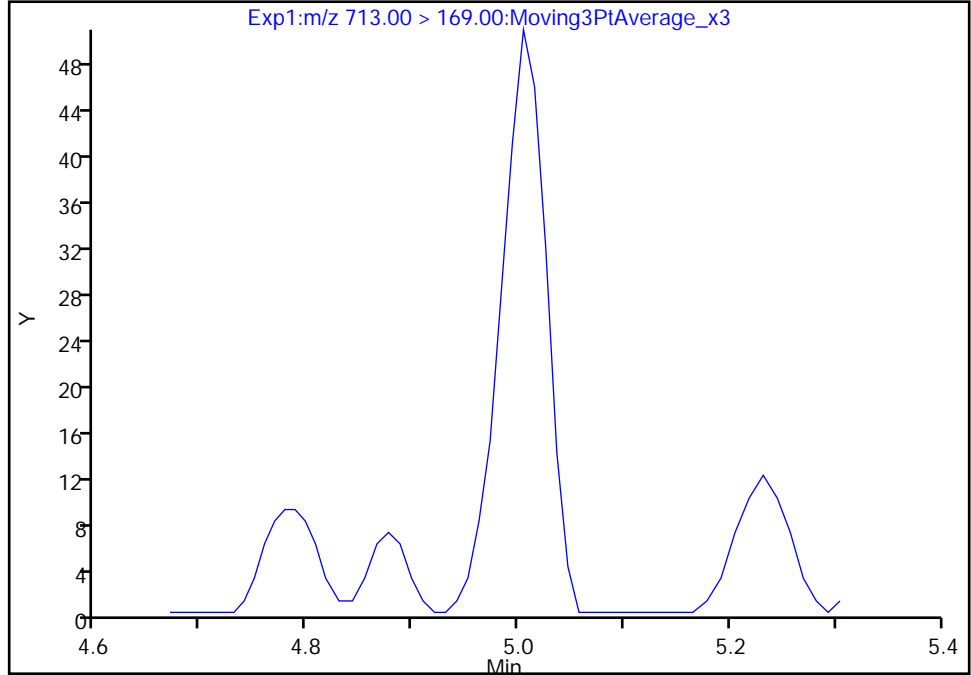
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

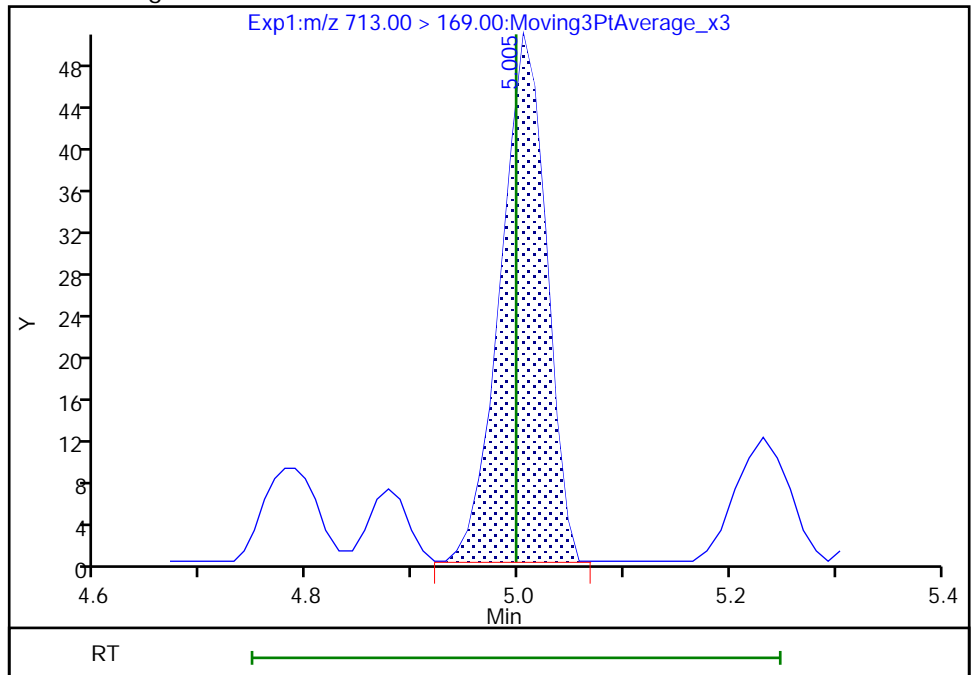
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 153
Amount: 0.001420
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:18:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

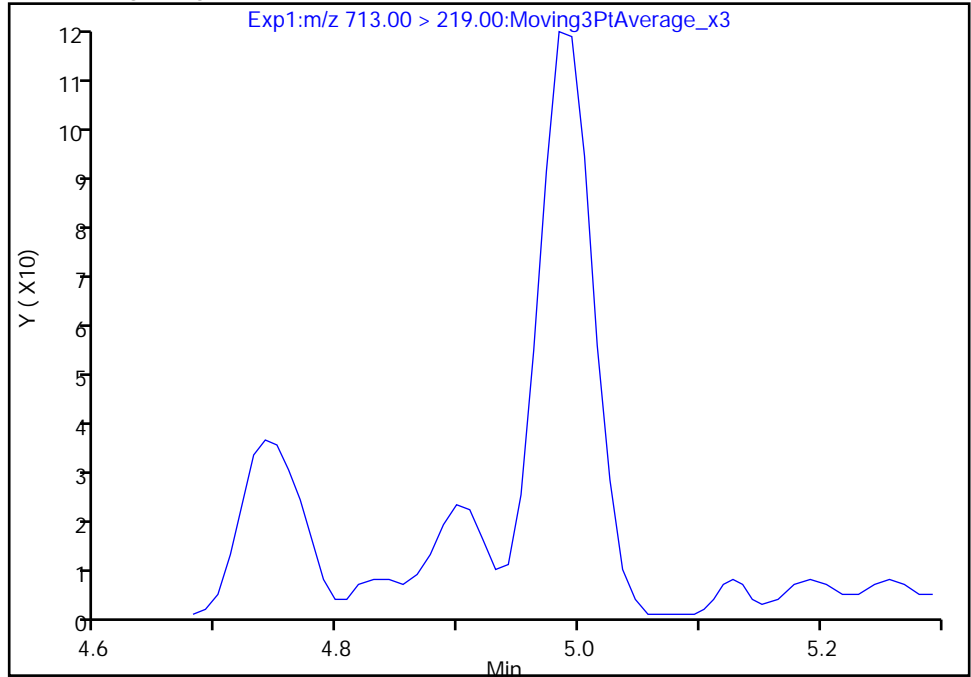
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

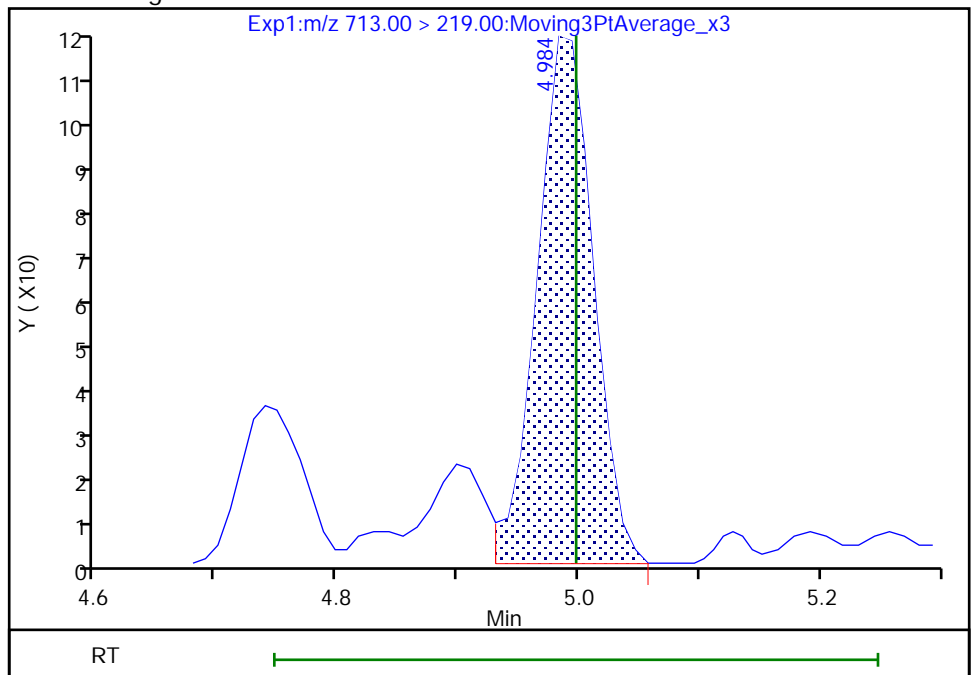
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 377
Amount: 0.001420
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:18:28

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

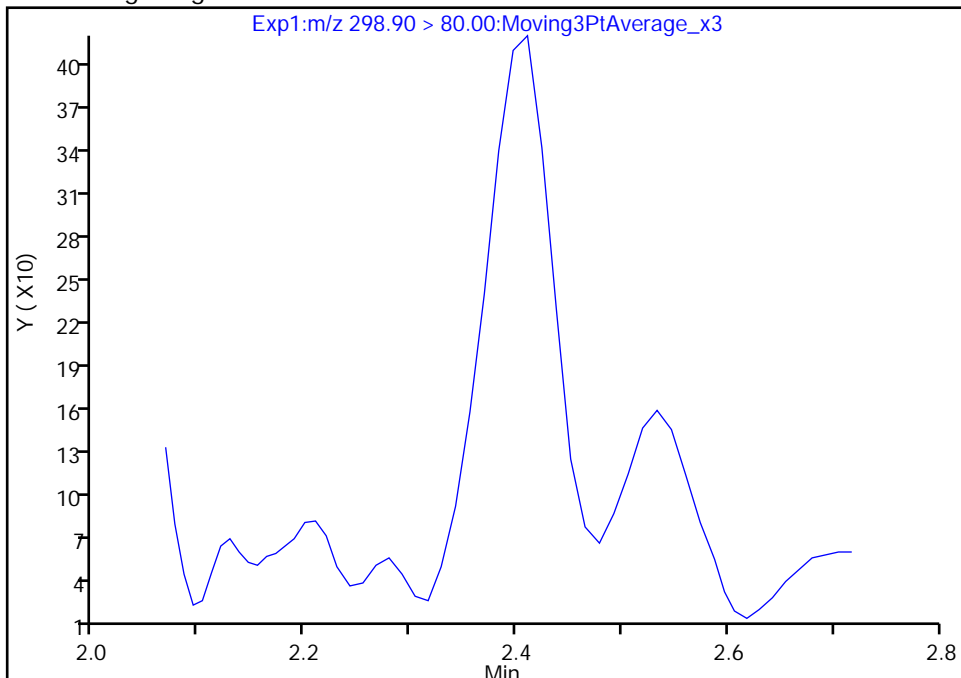
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

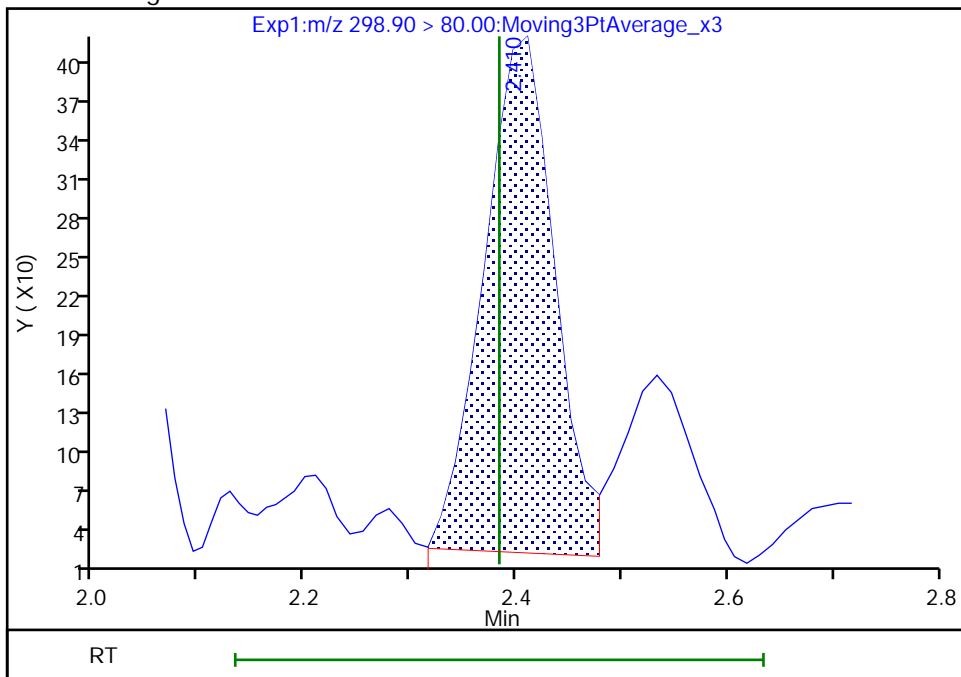
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1789
Amount: 0.001627
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:15:05
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

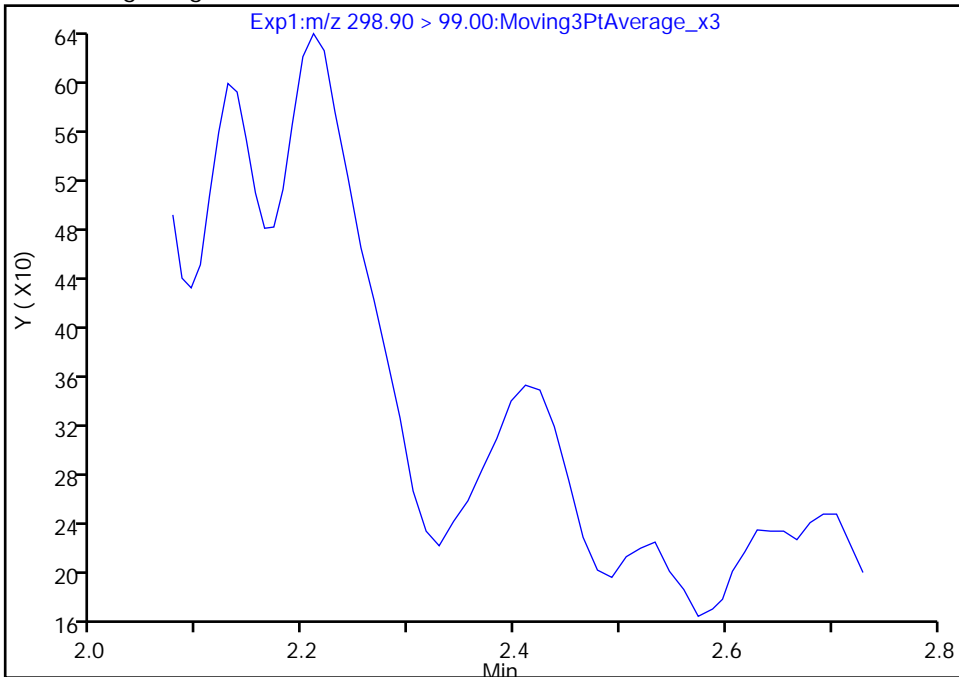
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

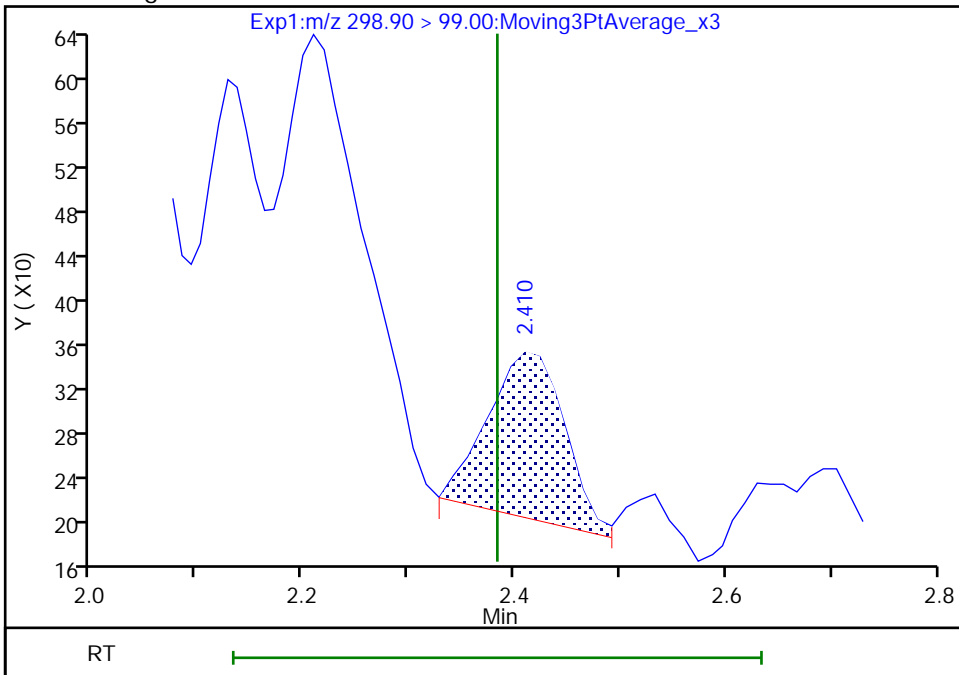
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 764
Amount: 0.001627
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:15:06

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

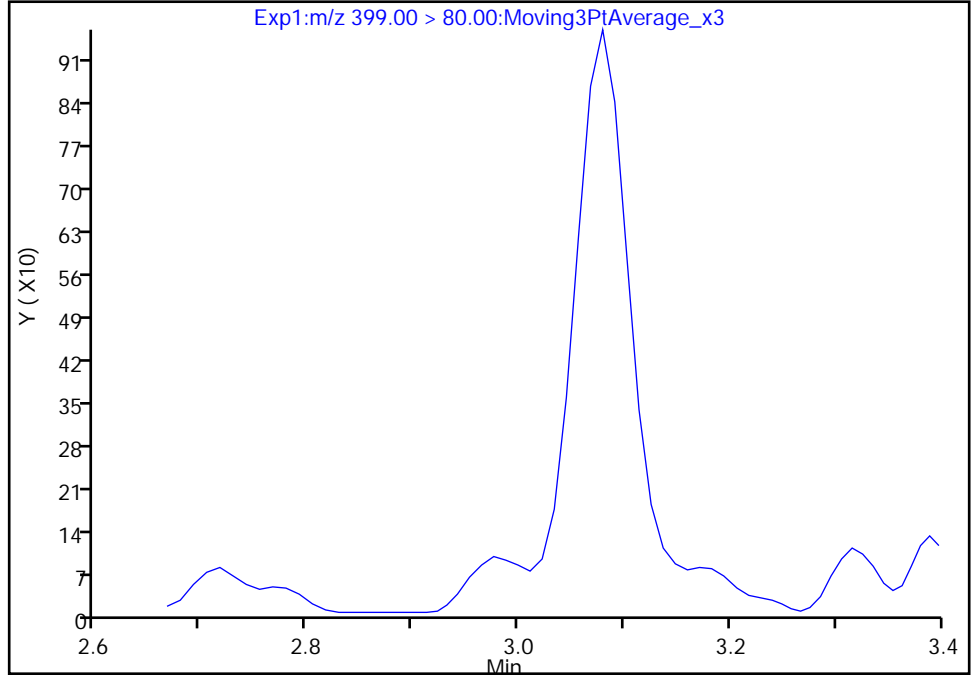
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

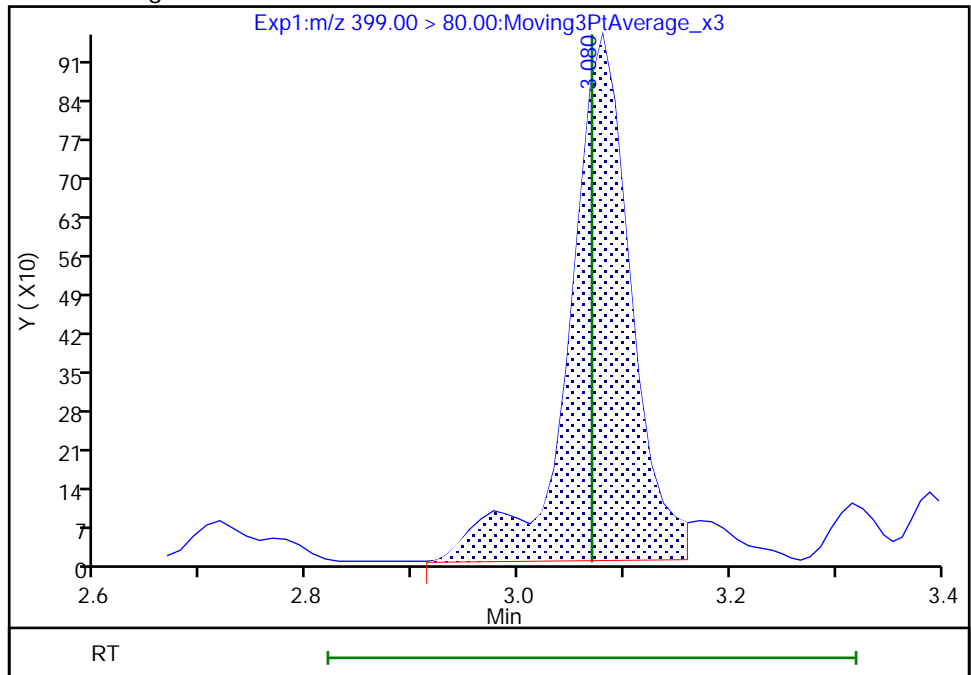
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 3922
Amount: 0.005372
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:15:36
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

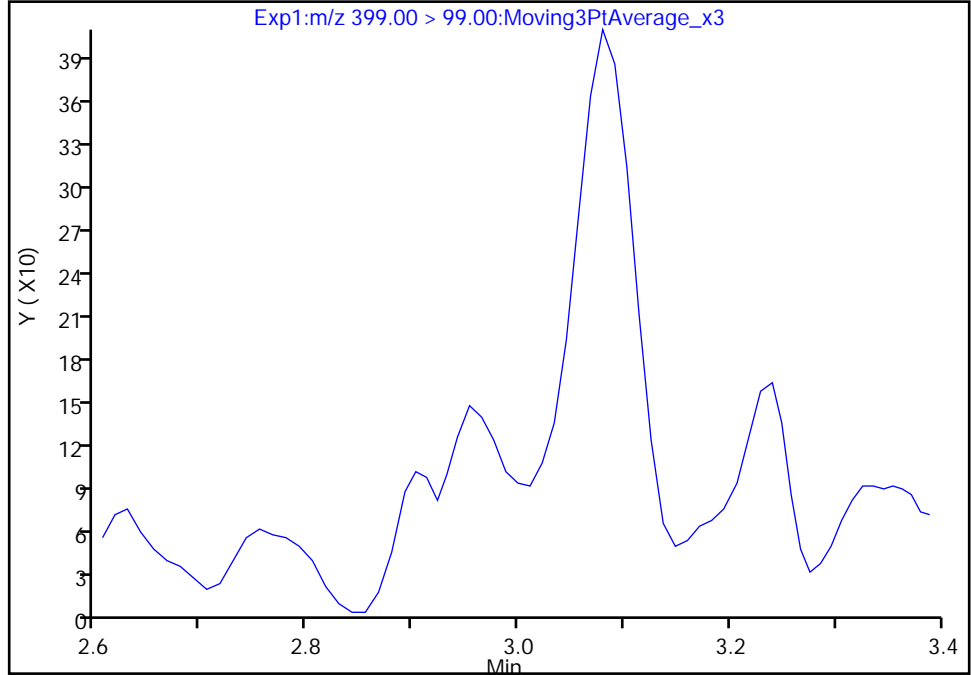
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

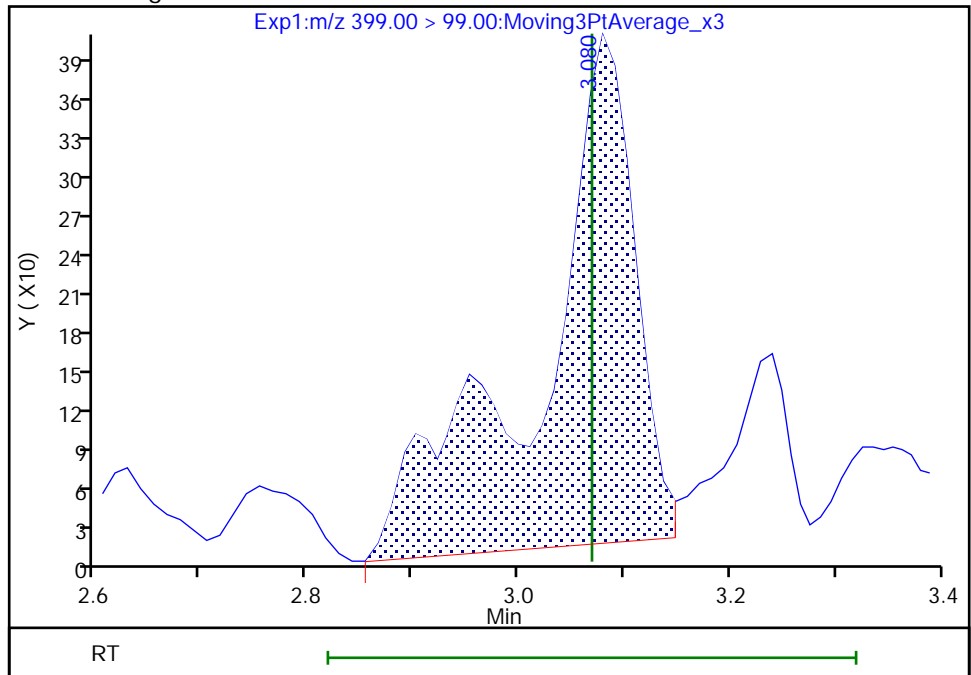
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 2461
Amount: 0.005372
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:15:38

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

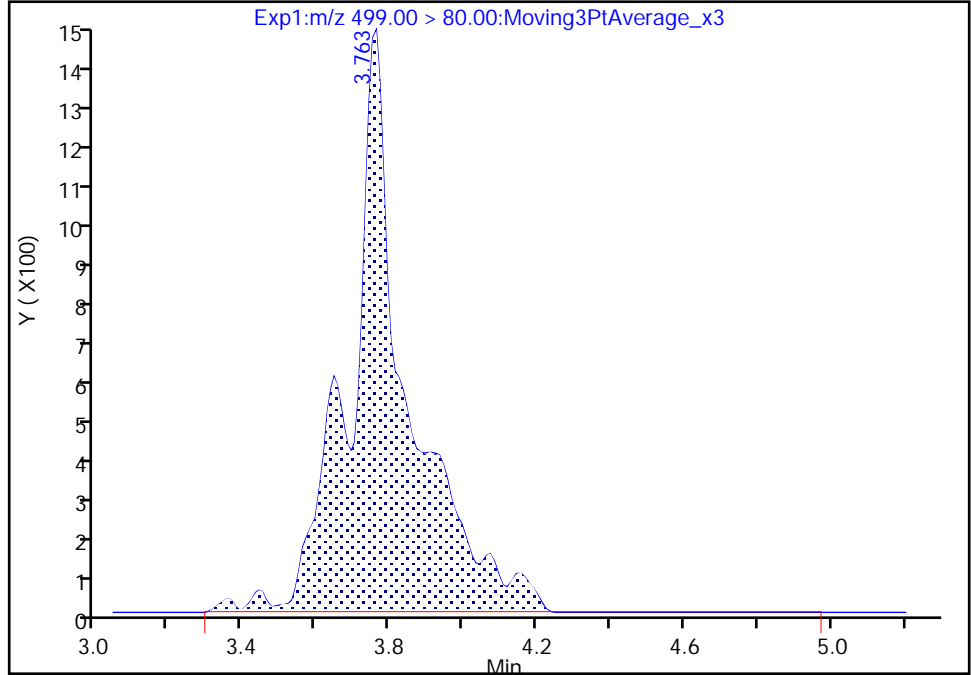
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

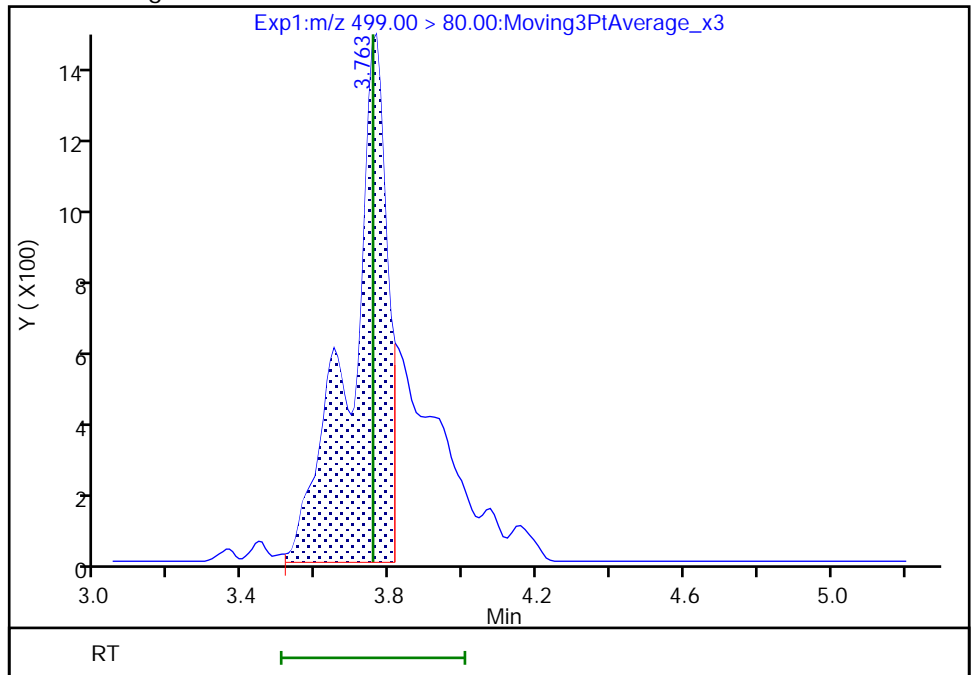
RT: 3.76
Area: 16391
Amount: 0.027576
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 10171
Amount: 0.017112
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:16:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

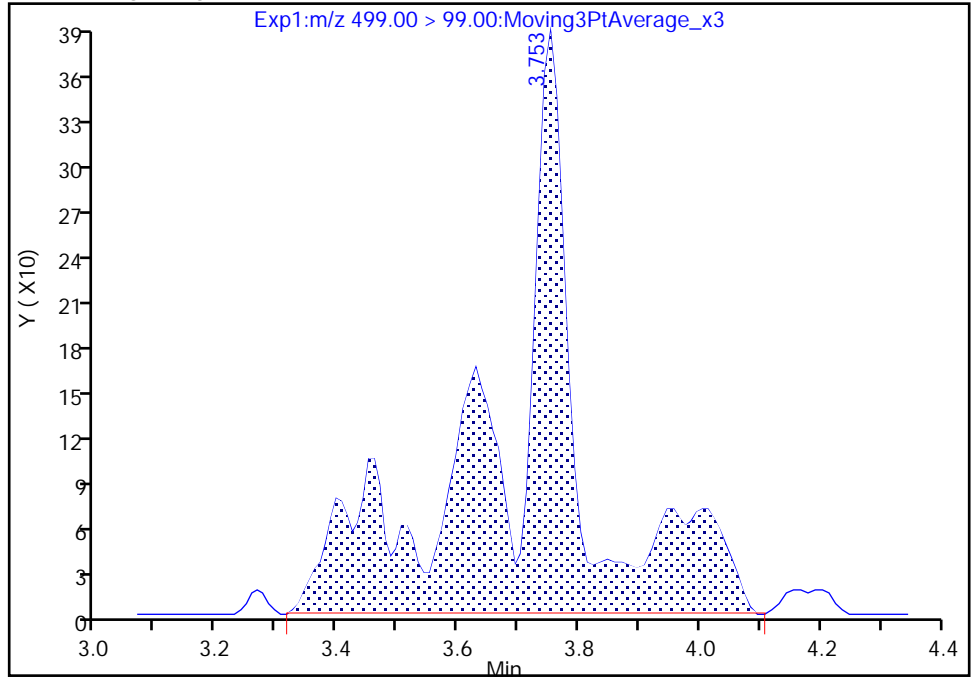
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

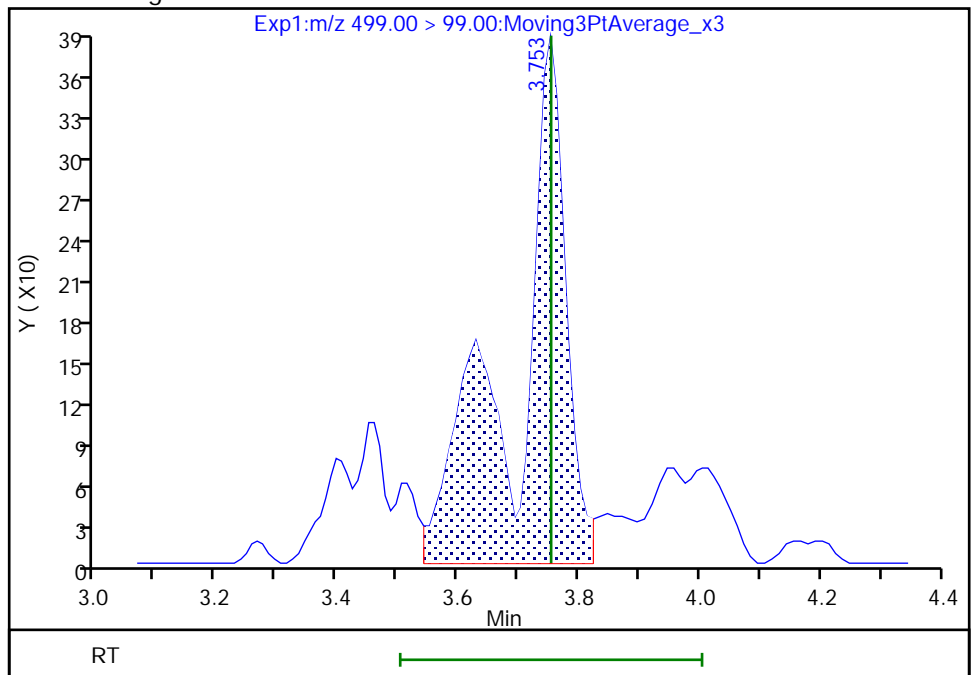
RT: 3.75
Area: 3604
Amount: 0.027576
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 2212
Amount: 0.017112
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:16:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

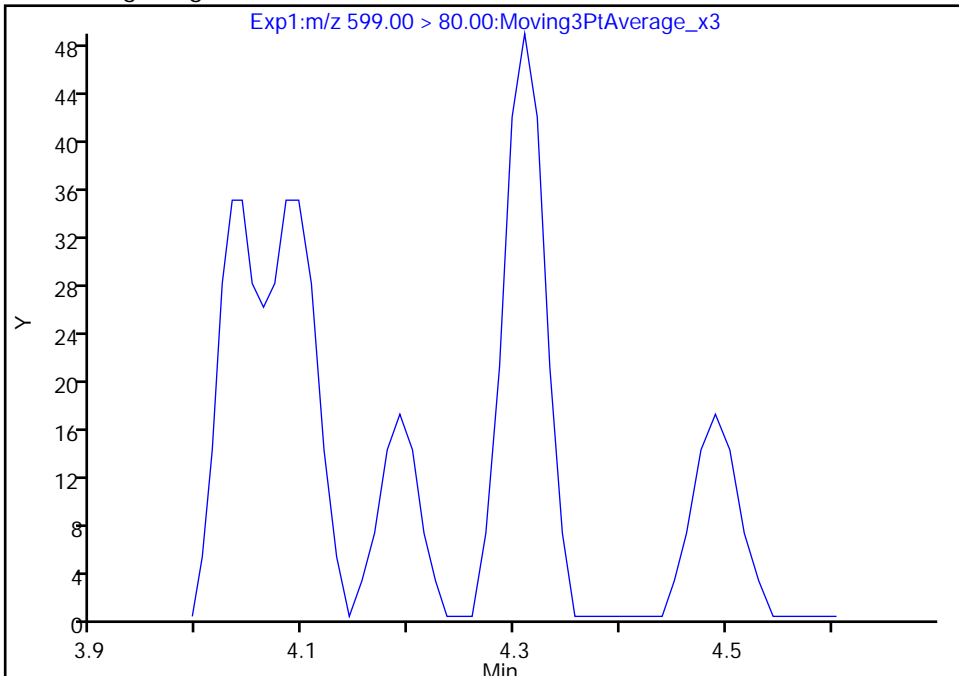
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

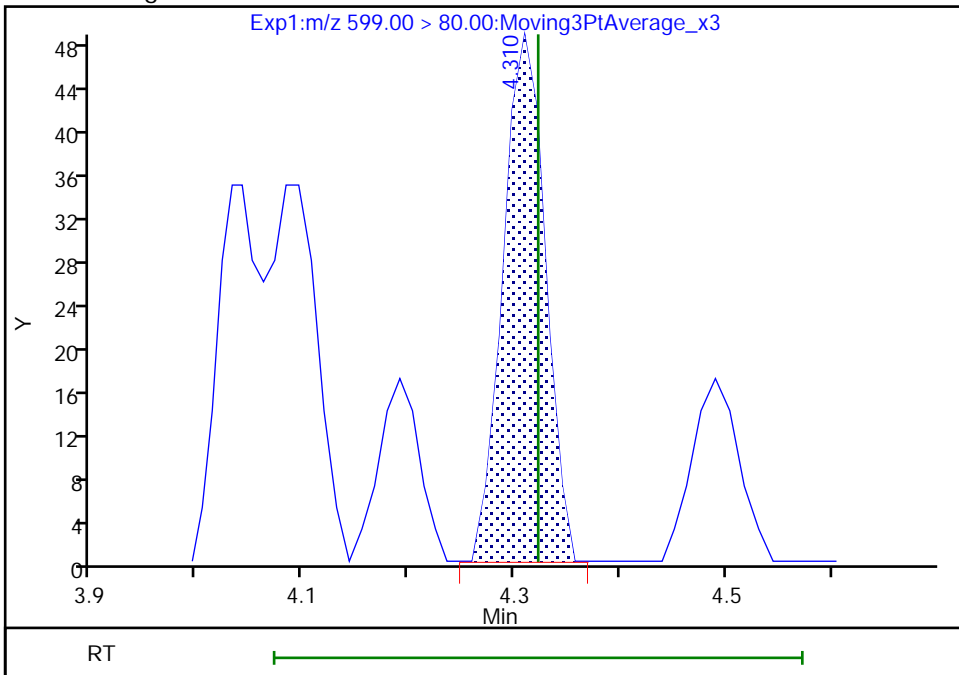
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 135
Amount: 0.000367
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:17:30
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

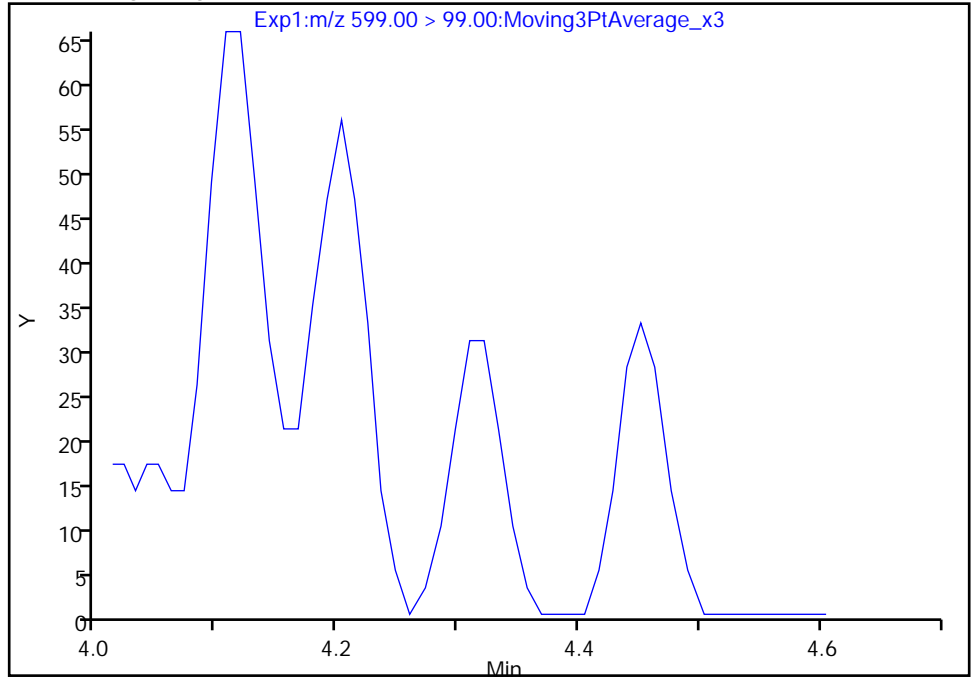
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

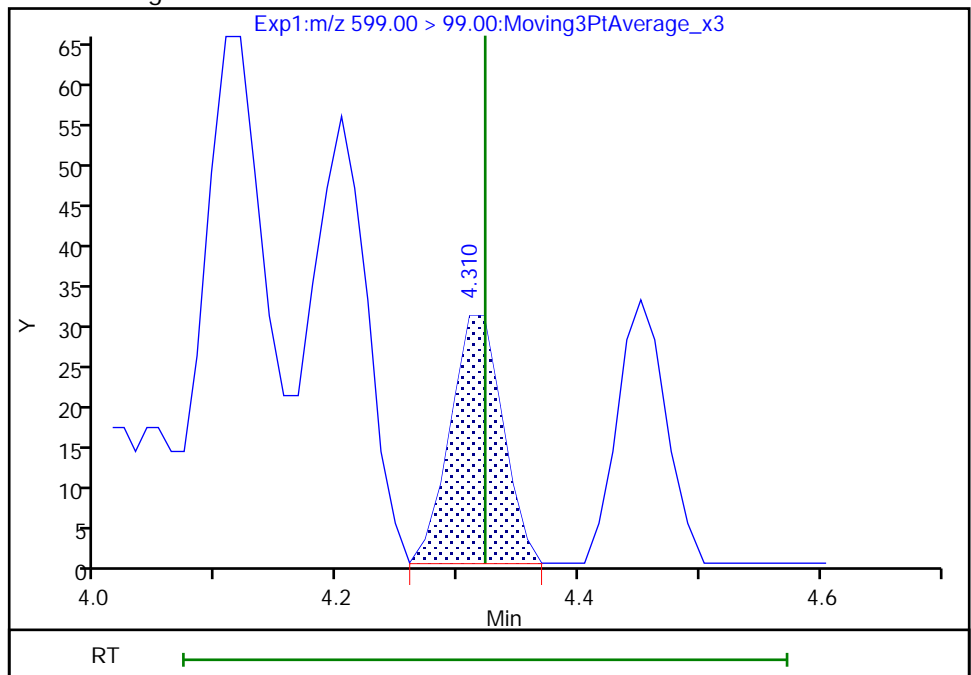
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 93
Amount: 0.000367
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:17:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

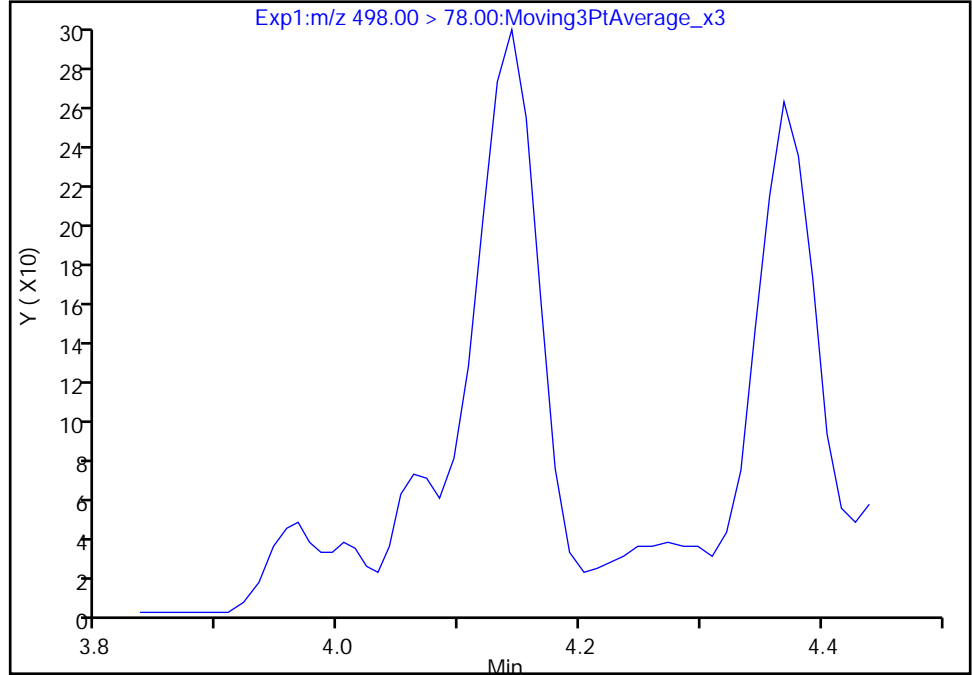
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

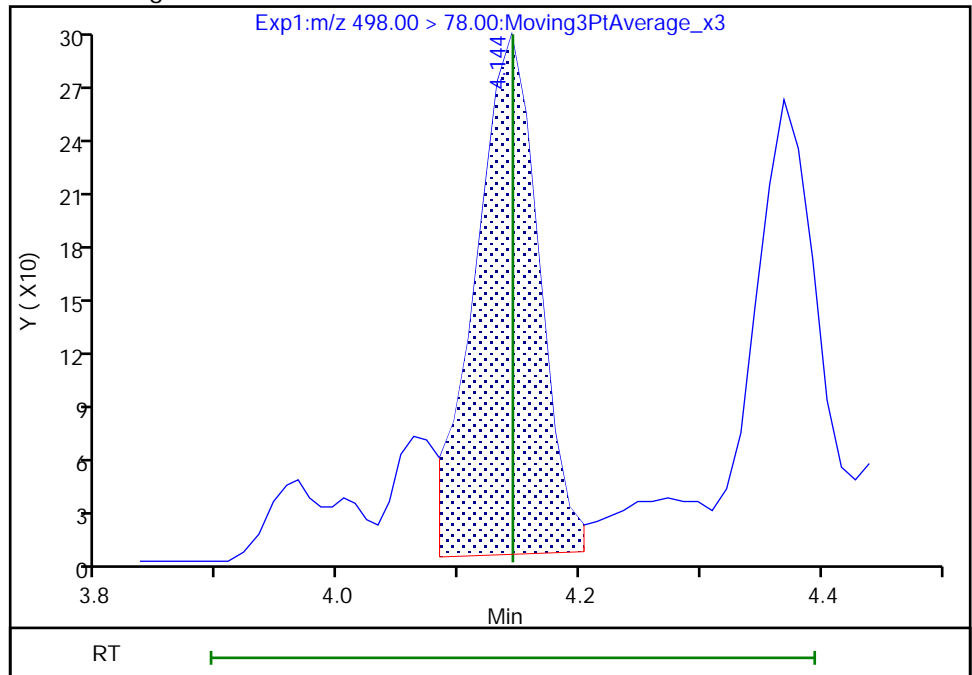
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 1040
Amount: 0.001302
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:17:20
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

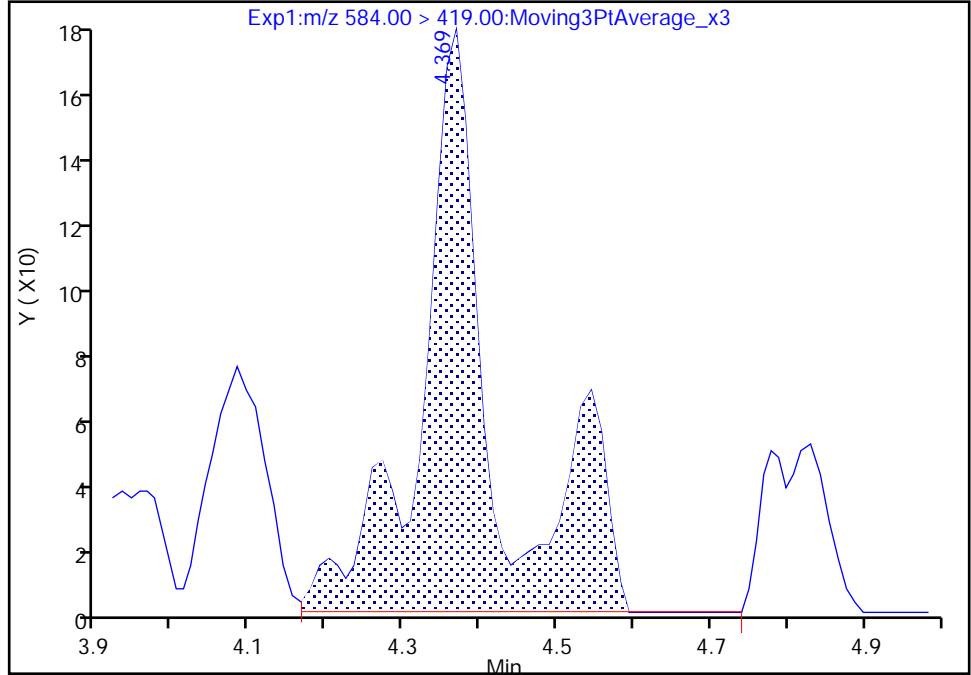
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

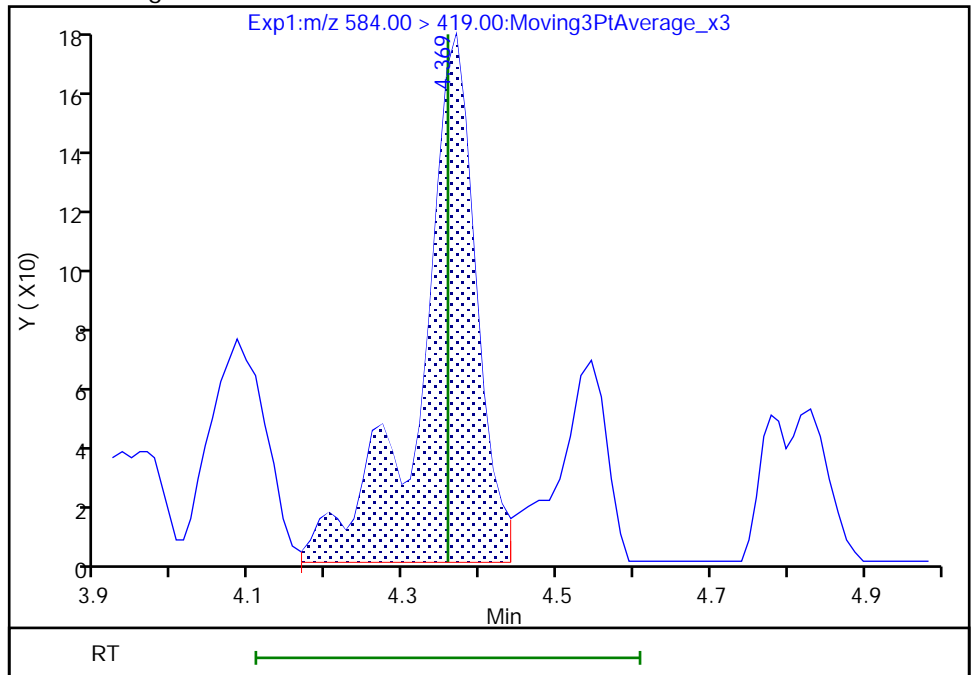
RT: 4.37
Area: 1162
Amount: 0.004970
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 872
Amount: 0.003729
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:17:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

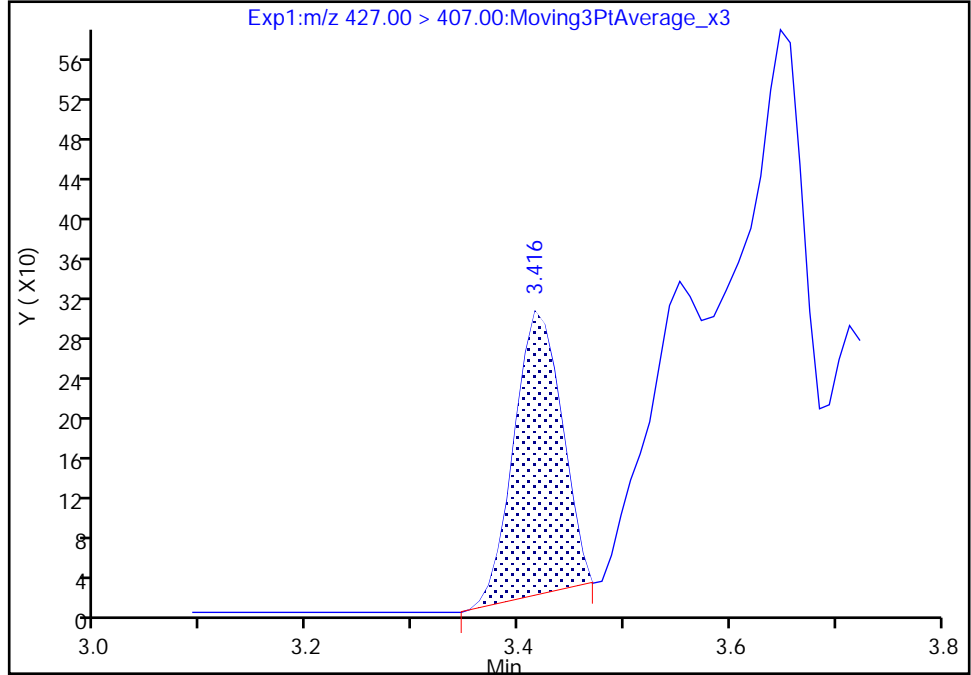
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

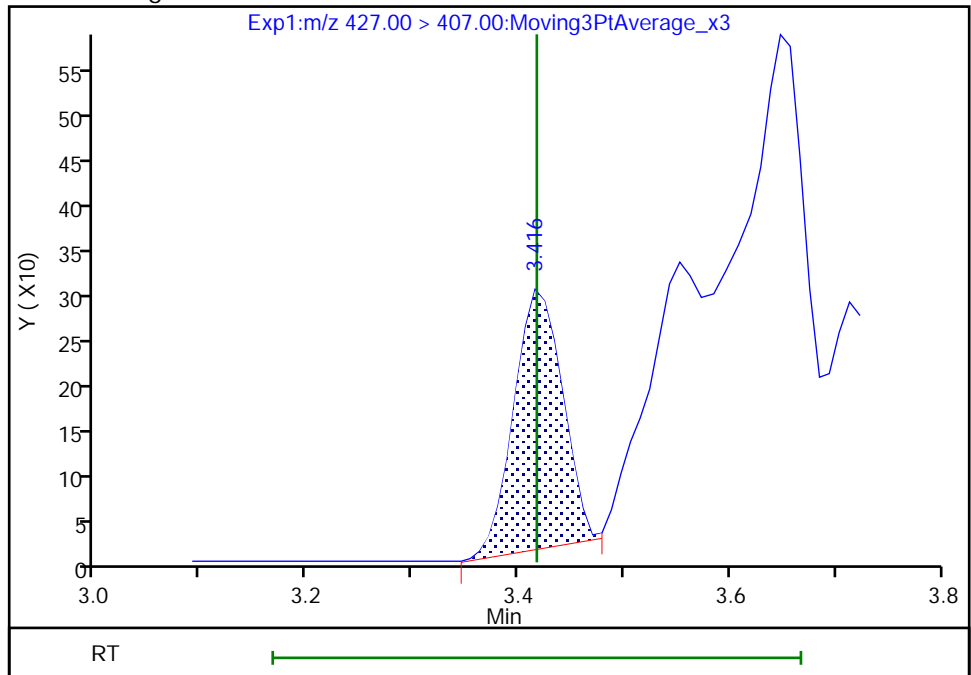
RT: 3.42
Area: 891
Amount: 0.002778
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 915
Amount: 0.002853
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:15:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

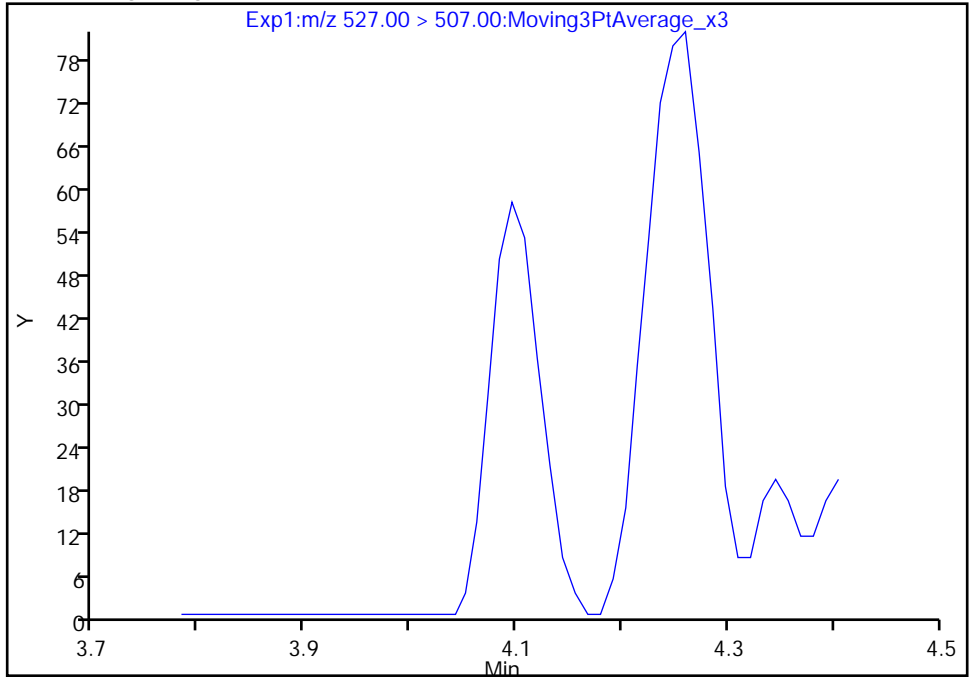
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

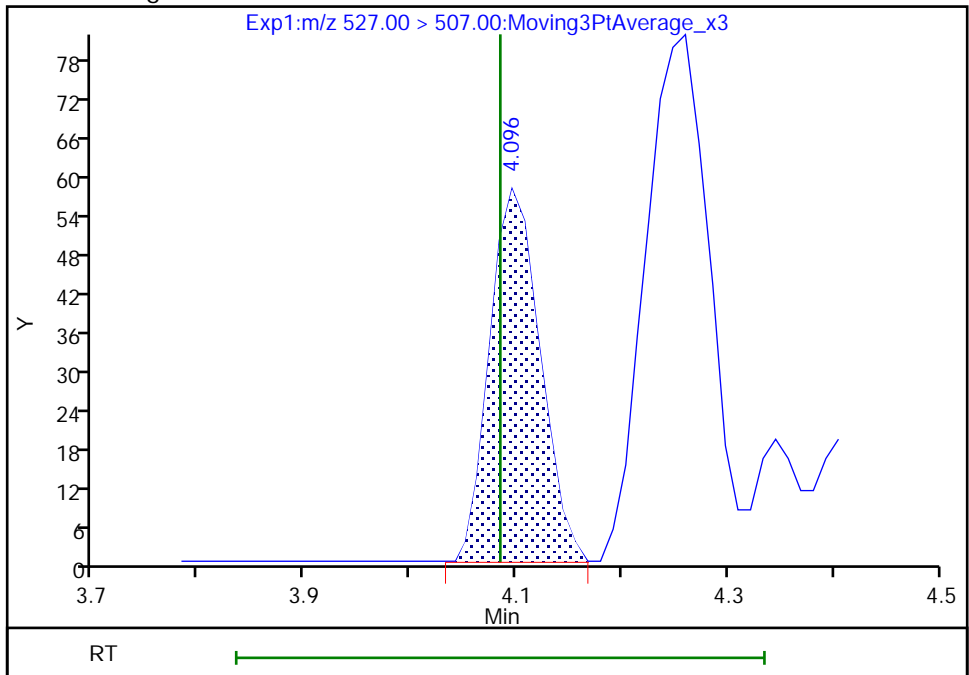
Processing Integration Results

Not Detected
Expected RT: 4.08



Manual Integration Results

RT: 4.10
Area: 192
Amount: 0.000638
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:17:05
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187884/4
 Matrix: Solid Lab File ID: PA230126A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/26/2023 20:11
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.050	U	0.050	0.023
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.13	U	0.13	0.048
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.13	U	0.13	0.040
27619-97-2	6:2 FTS	0.13	U	0.13	0.032
39108-34-4	8:2 FTS	0.050	U	0.050	0.020

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187884/4
 Matrix: Solid Lab File ID: PA230126A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/26/2023 20:11
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	85		50-150
STL01892	13C4 PFHpA	115		50-150
STL00990	13C4 PFOA	107		50-150
STL00991	13C4 PFOS	98		50-150
STL00995	13C5 PFNA	108		50-150
STL00992	13C4 PFBA	108		50-150
STL00993	13C2 PFHxA	101		50-150
STL00996	13C2 PFDA	104		50-150
STL00997	13C2 PFUnA	94		50-150
STL00998	13C2 PFDoA	92		50-150
STL01056	13C8 FOSA	92		50-150
STL01893	13C5 PFPeA	100		50-150
STL02116	13C2 PFTeDA	113		50-150
STL02118	d3-NMeFOSAA	122		50-150
STL02117	d5-NEtFOSAA	117		50-150
STL02279	M2-6:2 FTS	103		50-150
STL02280	M2-8:2 FTS	109		50-150
STL02337	13C3 PFBS	96		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 26-Jan-2023 20:11:01 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0054135-004 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:38:46 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:10:37
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	2061884	1.35	108	29758	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.094	0.008	1.008	5154	-0.0401		0.8		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1532064	1.24	99.6	10293	
D 47 13C3 PFBS	301.90 > 80.00	2.410	2.384	0.026	0.700	1500839	1.11	95.6	213685	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.410	2.384	0.026	1.000	1451	0.001049	Target=2.10	4.2		M
298.90 > 99.00	2.410	2.384	0.026	1.000	815		1.78(1.05-3.15)	1.1		M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.692	2.669	0.023	1.000	67	0.000210		1.9		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	125718	1.15	98.6	321	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1607966	1.26	101	4287	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.842	2.806	0.036	1.004	109	0.000561		2.0		M
D 64 13C3 HFPO-DA	287.00 > 169.00	2.830	2.806	0.024	0.822	243064	1.10	87.8	2686	
D 11 18O2 PFHxS	403.00 > 84.00	3.091	3.069	0.022	0.898	985206	1.00	84.8	6104	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.091	3.069	0.022	1.000	4110	0.004494	Target=3.18	24.0		M
399.00 > 99.00	3.091	3.069	0.022	1.000	1546		2.66(1.59-4.77)	6.6		M
D 9 13C4 PFHpA	367.00 > 322.00	3.091	3.069	0.022	0.898	1833695	1.43	115	4932	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
77 DONA										M
377.00 > 251.00	3.137	3.104	0.033	0.834	1240	0.000371	Target=2.96	1.6		M
377.00 > 85.00	3.137	3.104	0.033	0.834	410		3.02(1.48-4.44)	1.5		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	189478	1.22		103	1325	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	508	0.001390		1.0		
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1807715	1.33		107	9753	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1655117	1.25			7611	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.461	3.426	0.035	1.005	9116	0.005792	Target=2.71	0.5		RM
413.00 > 169.00	3.443	3.426	0.017	1.000	695		13.12(1.36-4.07)	2.1		M
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	696845	1.17		97.6	4870	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.763	3.754	0.009	1.000	3722	0.005254	Target=4.23	3.5		RM
499.00 > 99.00	3.703	3.754	-0.051	0.984	447		8.33(2.11-6.34)	3.8		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1778267	1.35		108	9396	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1764062	1.30		104	7134	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.062	4.074	-0.012	0.997	1098	0.000728	Target=11.13	0.4		RM
513.00 > 169.00	4.084	4.074	0.010	1.003	301		3.65(5.56-16.69)	2.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	252783	1.30		109	2218	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.096	4.085	0.011	1.003	144	0.000376		2.4		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.155	4.144	0.011	1.003	521	0.000511		2.3		M
D 21 13C8 FOSA										
506.00 > 78.00	4.143	4.144	-0.001	1.204	1266650	1.15		92.0	3545	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.225	4.226	-0.001	1.227	406524	1.53		122	2417	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.248	4.226	0.022	1.005	191	0.000651		1.3		M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.310	4.322	-0.012	1.145	135	0.000308	Target=2.45	1.8		RM
599.00 > 99.00	4.286	4.322	-0.036	1.139	184		0.73(1.23-3.68)	2.4		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1374009	1.17		94.0	9250	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.369	4.358	0.011	1.003	613	0.002206		3.8		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	373890	1.46		117	968	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
66 11-Chloroeicosafuoro-3-oxaundec	631.00 > 451.00	4.451	4.452	-0.001	1.183	862	0.000329		4.7	
D 36 13C2 PFDaA	615.00 > 570.00	4.594	4.584	0.010	1.334	1342995	1.14	91.6	10285	
74 1H,1H,2H,2H-perfluorododecanesul	627.00 > 607.00	4.616	4.606	0.010	1.130	35	0.000145		1.4	M
41 Perfluorotridecanoic acid	663.00 > 619.00	4.817	4.799	0.018	1.049	2410	0.002206 Target=6.06		0.3	RM
	663.00 > 169.00	4.808	4.799	0.009	1.047	236	10.21(3.03-9.09)		4.0	M
42 Perfluorotetradecanoic acid	713.00 > 169.00	5.015	4.998	0.017	1.002	205	0.001439 Target=0.83		4.0	M
	713.00 > 219.00	5.004	4.998	0.006	1.000	237	0.86(0.42-1.25)		4.9	M
D 43 13C2 PFTeDA	715.00 > 670.00	5.004	4.998	0.006	1.454	1425938	1.41	113	6567	
45 Perfluorohexadecanoic acid	813.00 > 769.00	5.371	5.362	0.009	1.002	15834	-0.001579 Target=6.74		2.5	
	813.00 > 169.00	5.360	5.362	-0.002	1.000	2322	6.82(3.37-10.11)		37.2	
D 44 13C2 PFHxDA	815.00 > 770.00	5.360	5.362	-0.002	1.557	1526970	1.23	98.8	4569	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d

Injection Date: 26-Jan-2023 20:11:01

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: LC812user

ALS Bottle#: 1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

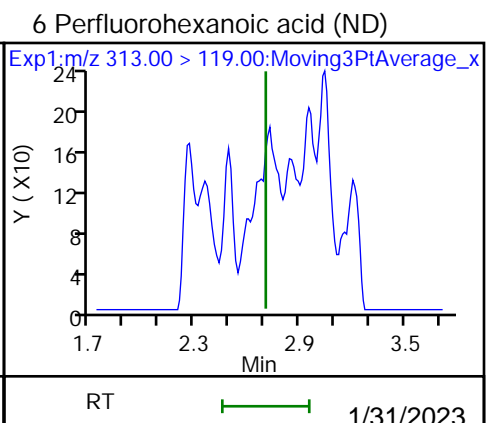
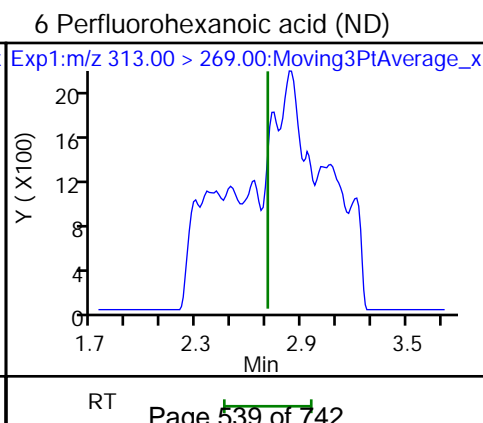
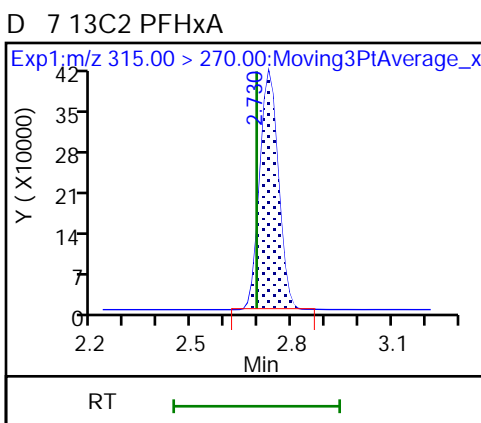
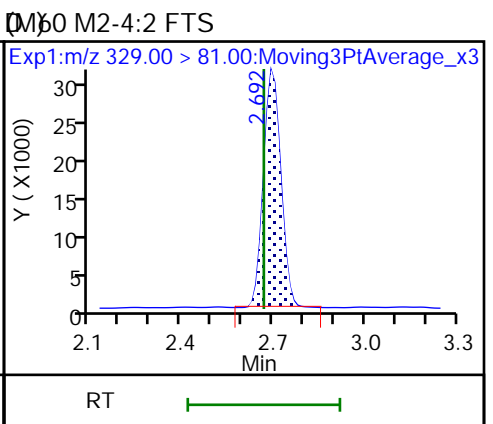
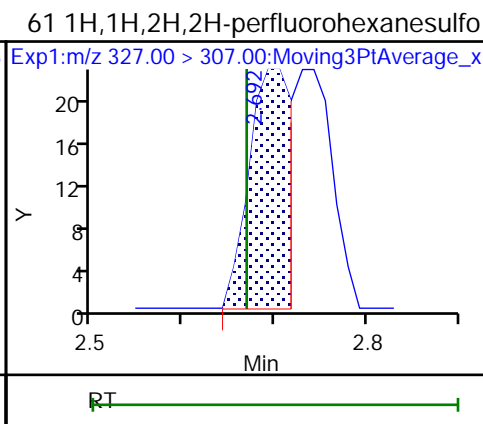
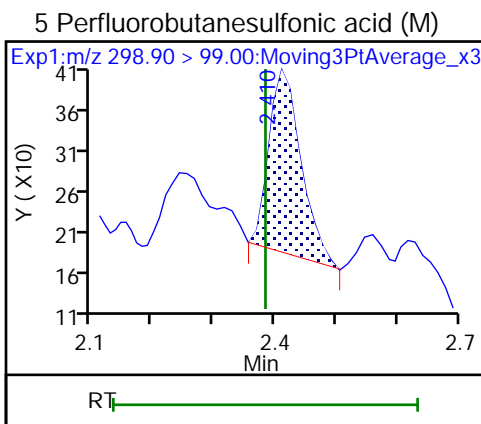
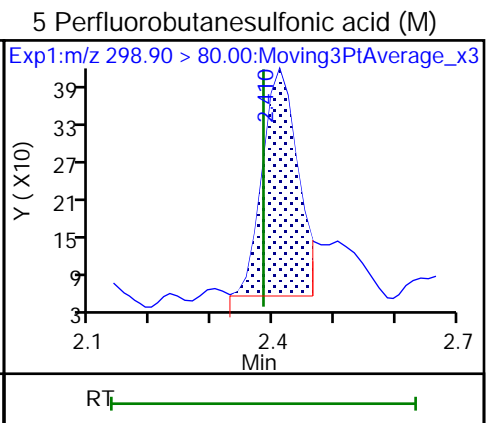
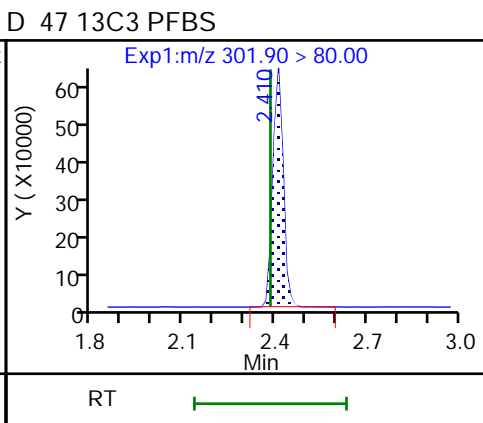
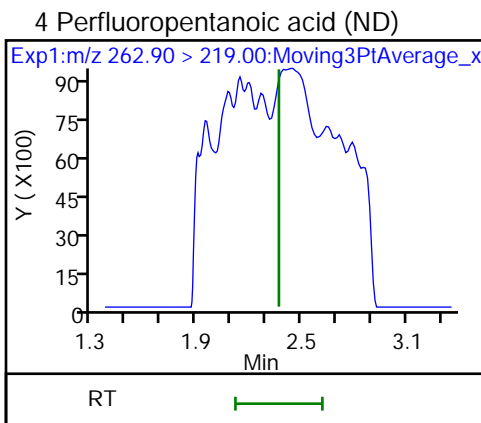
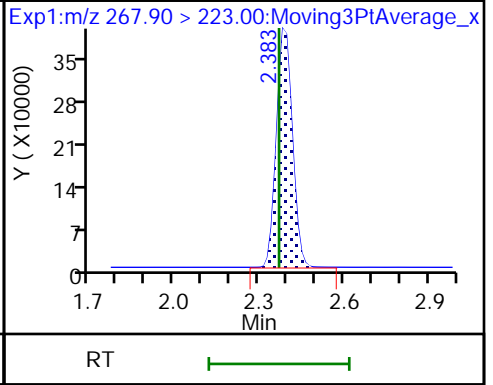
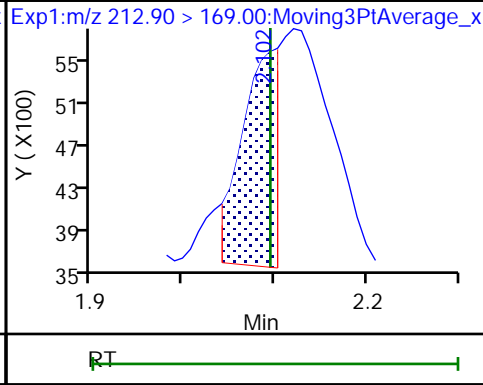
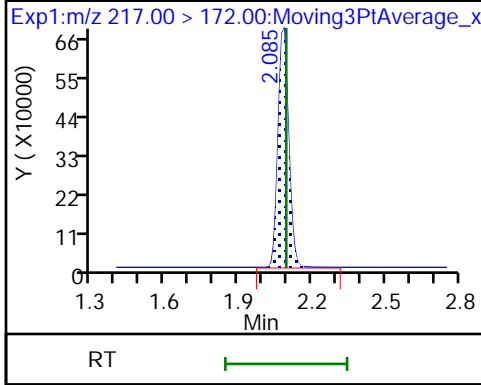
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

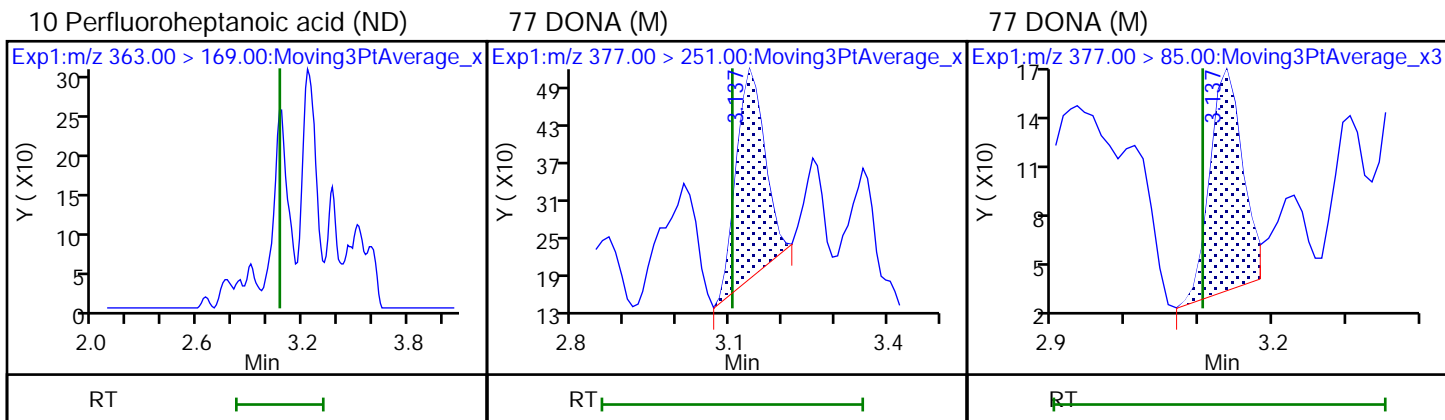
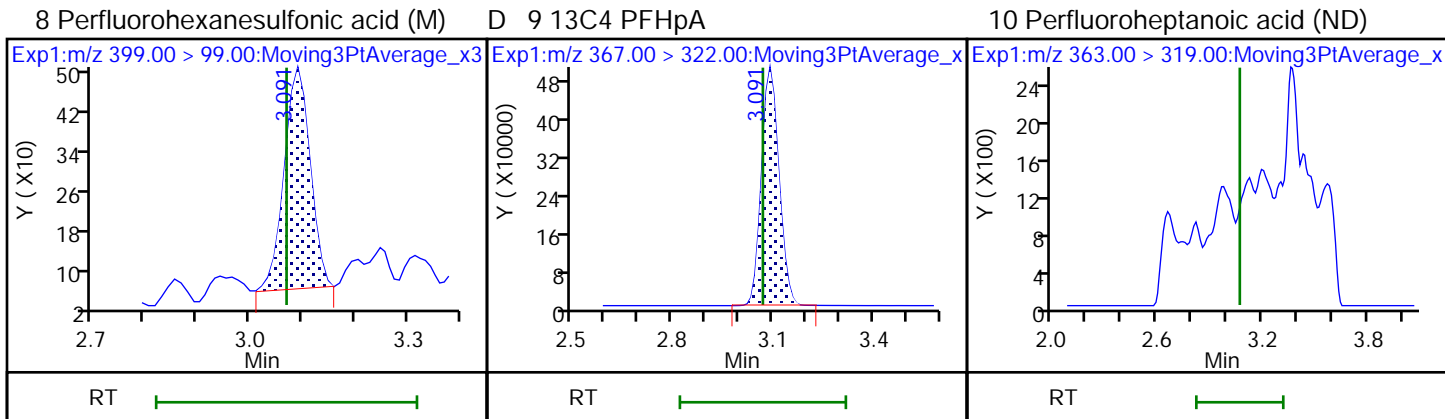
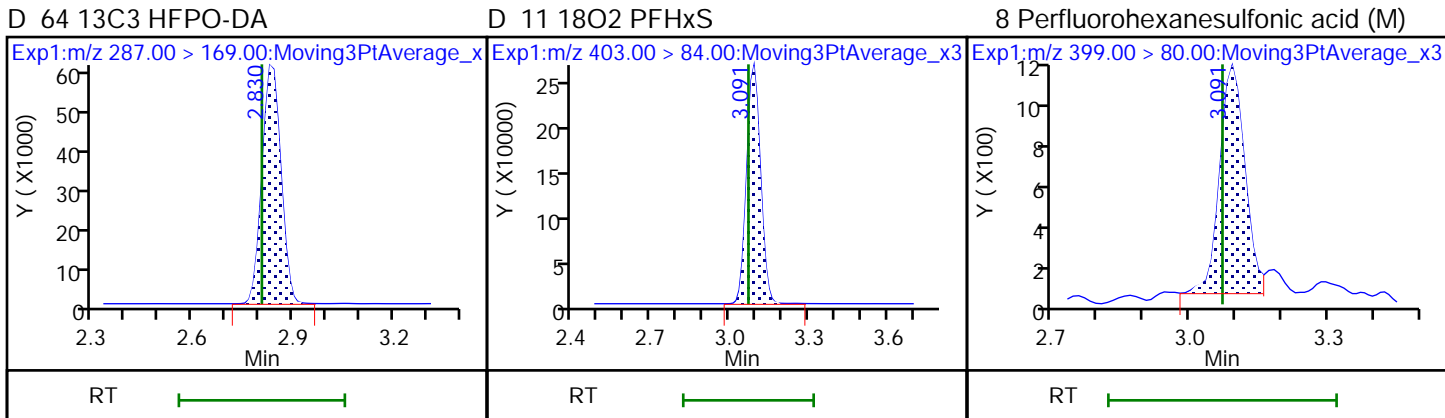
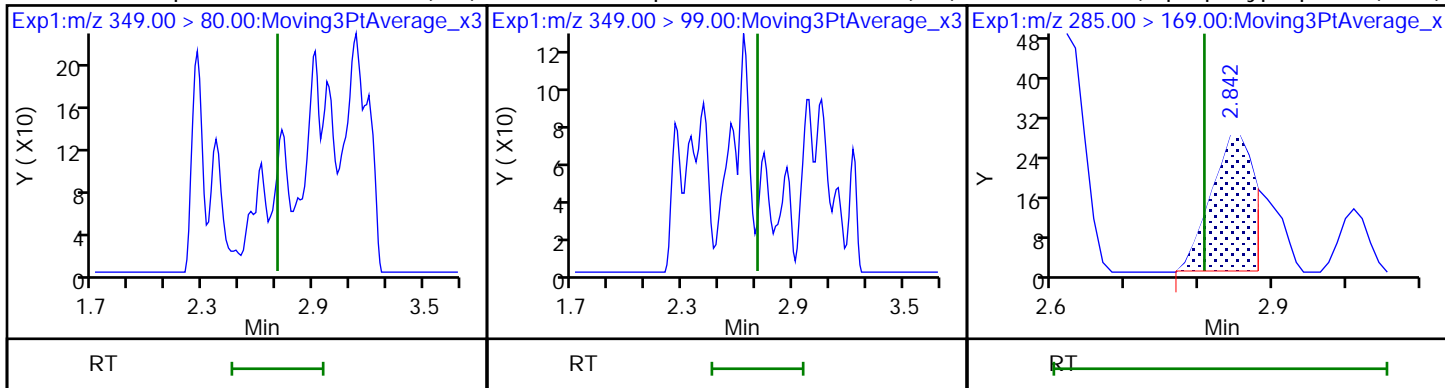
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA



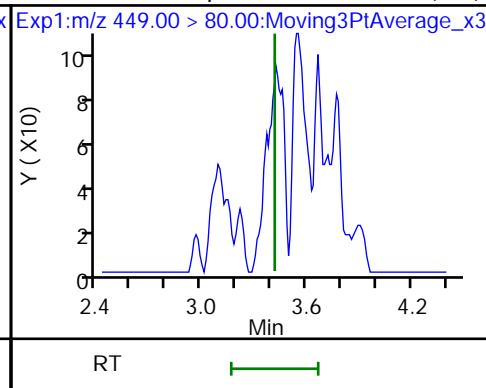
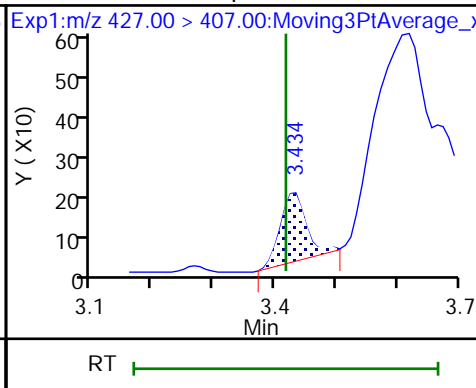
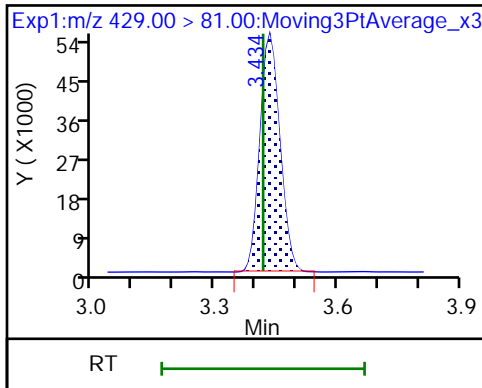
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 12 M2-6:2 FTS

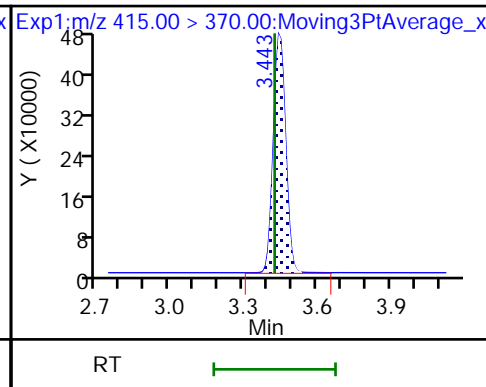
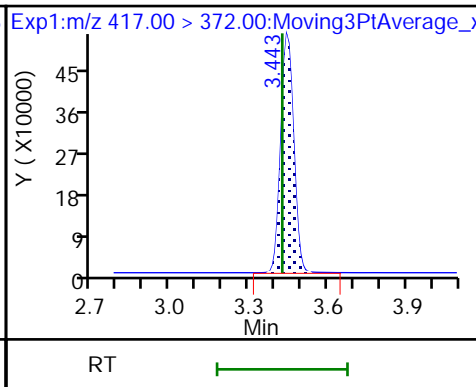
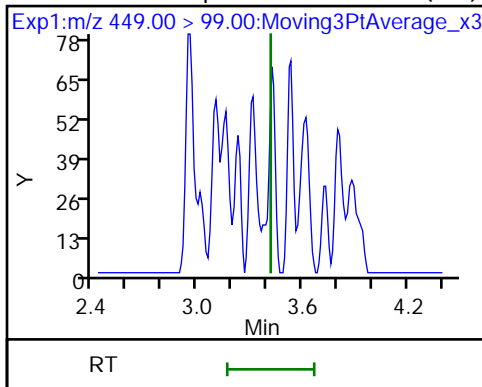
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

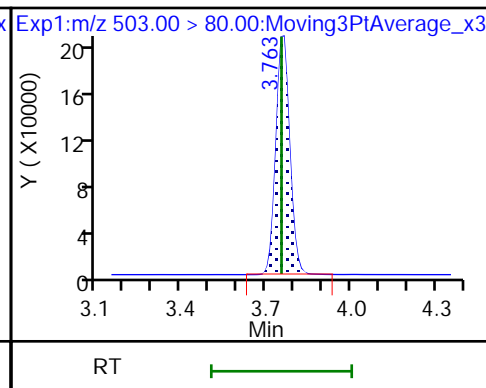
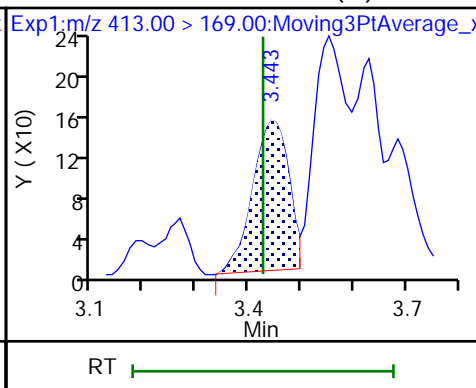
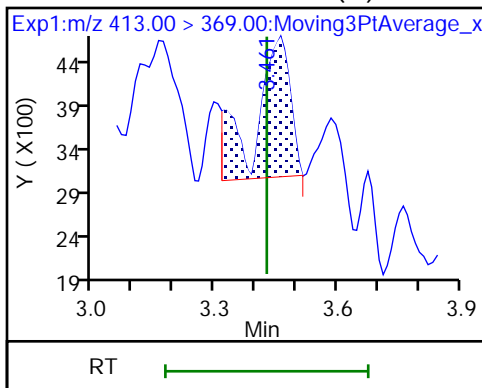
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

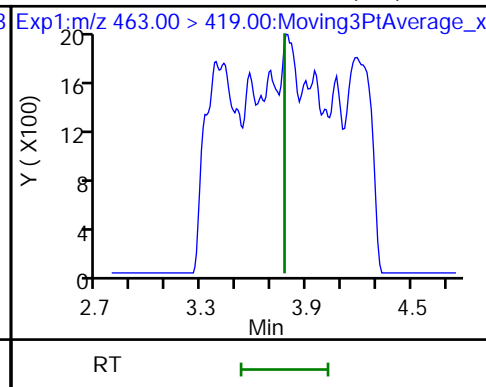
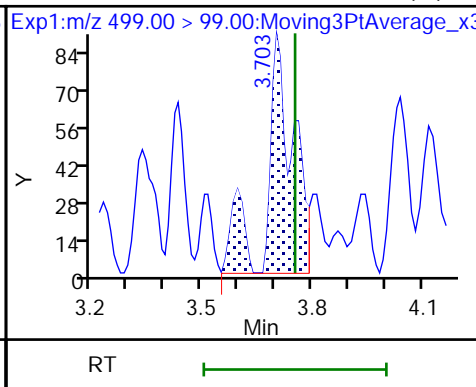
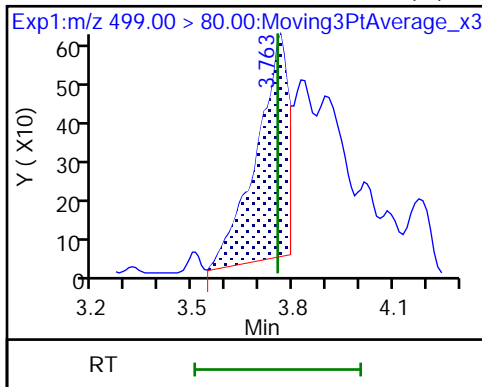
D 18 13C4 PFOS

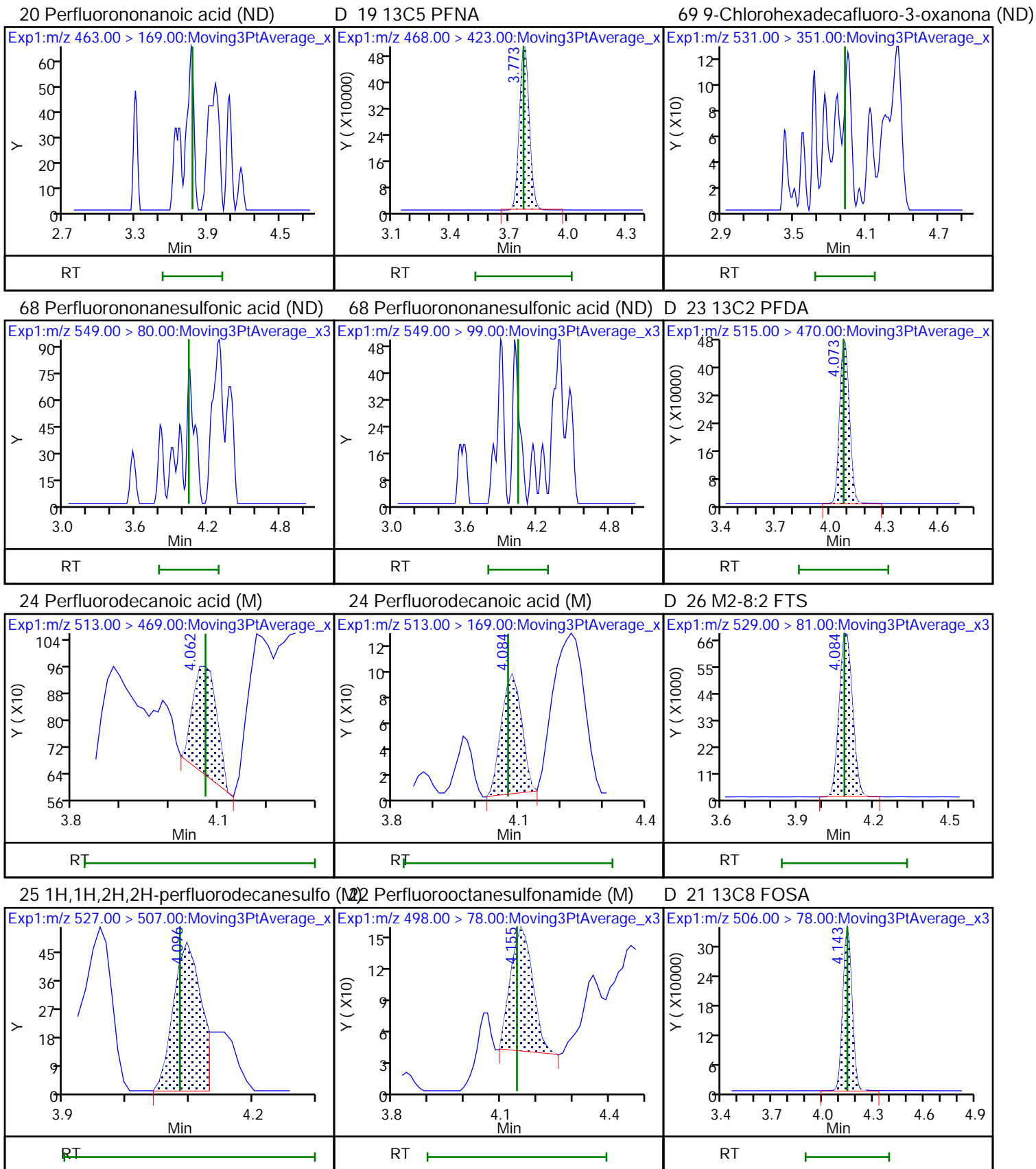


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

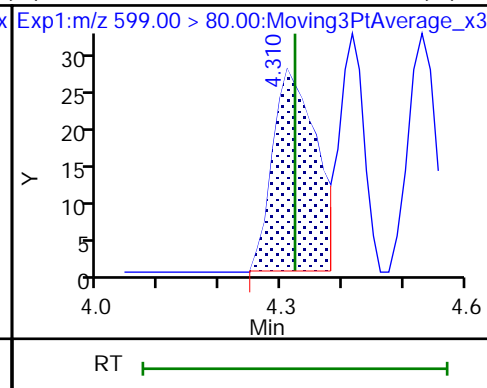
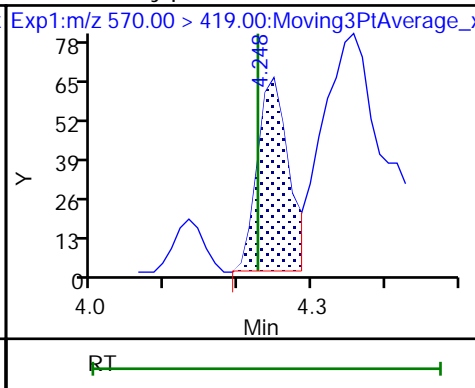
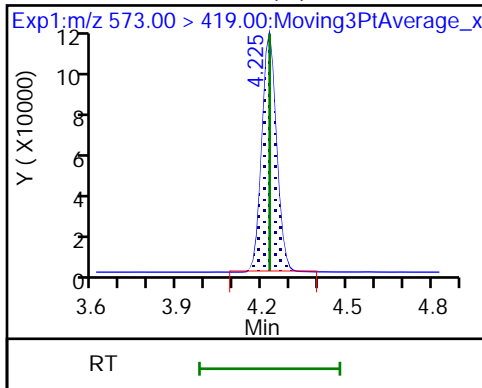




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

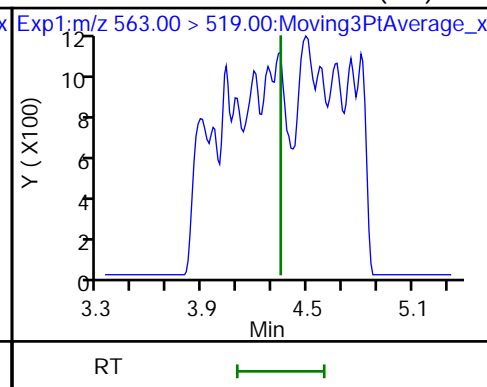
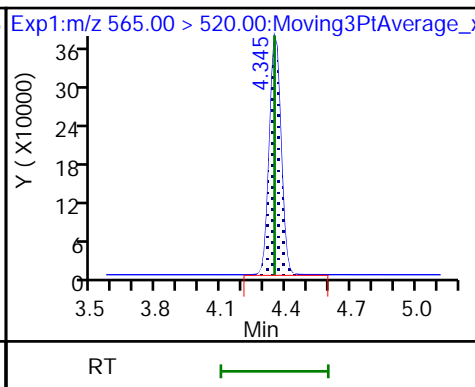
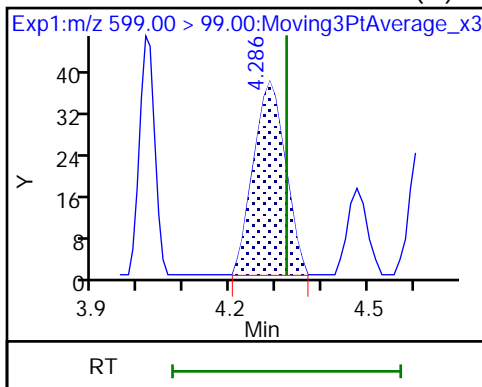
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

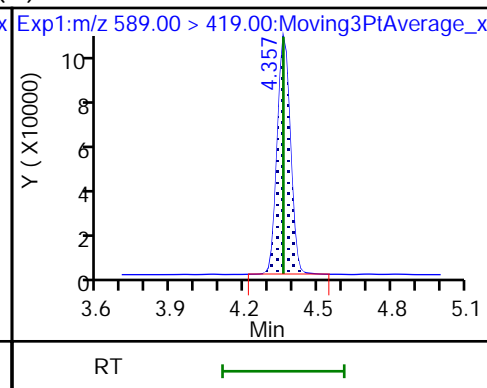
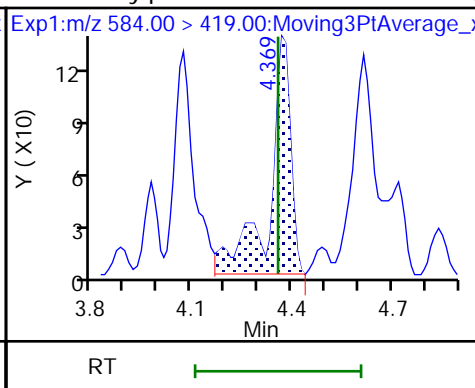
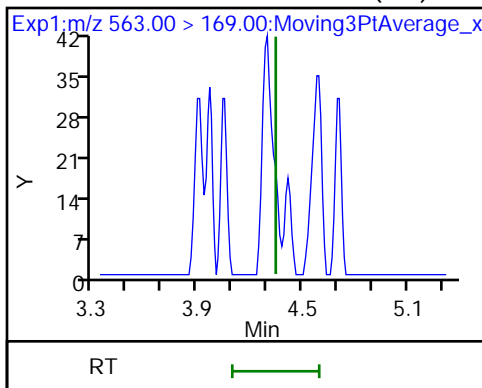
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

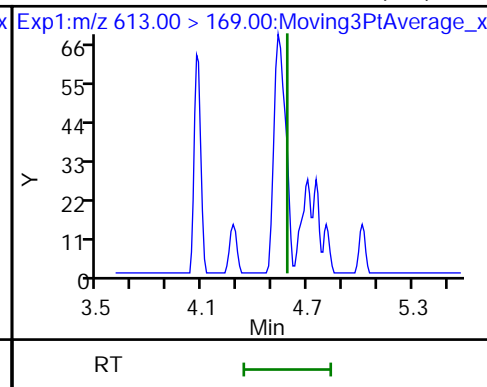
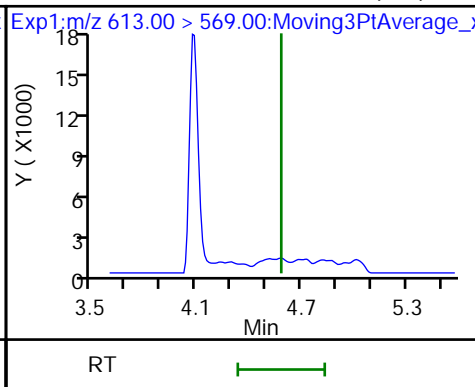
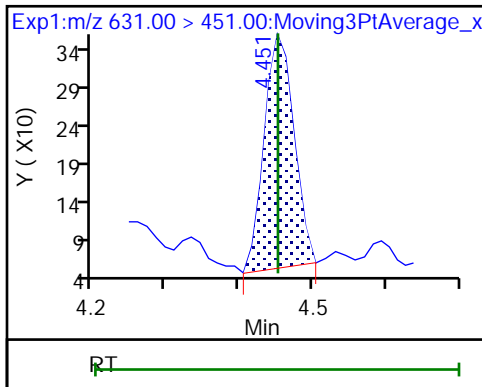
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

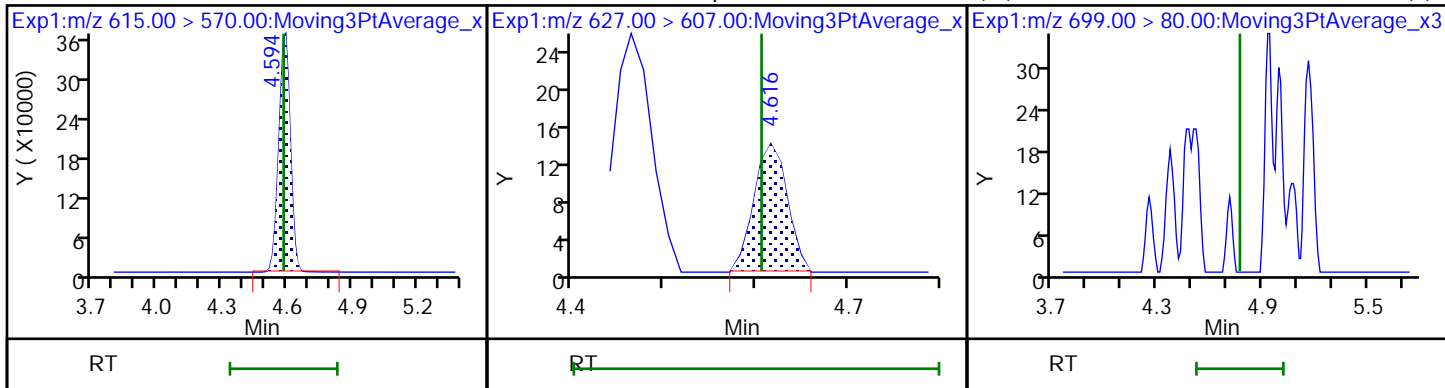
37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)



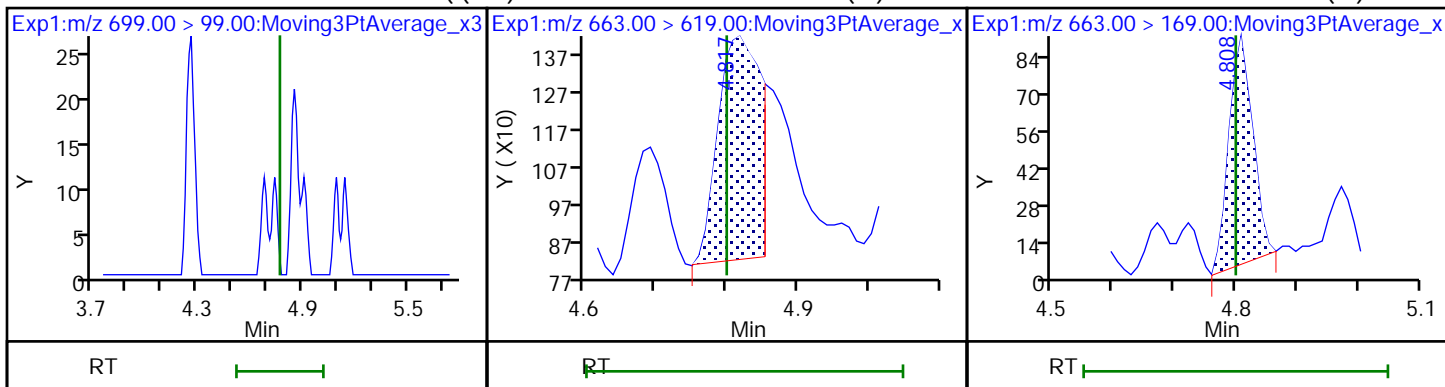
D 36 13C2 PFDoA

74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (M)

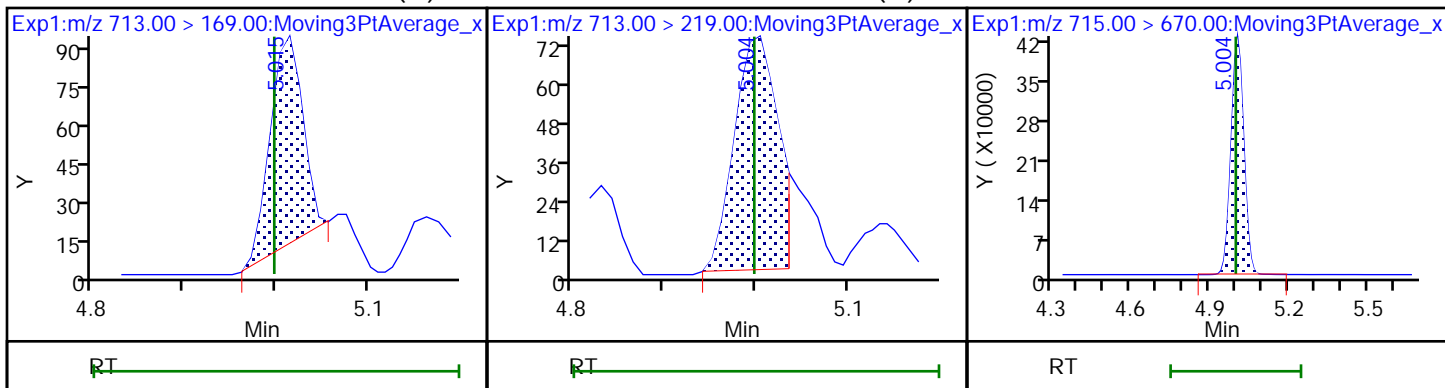
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

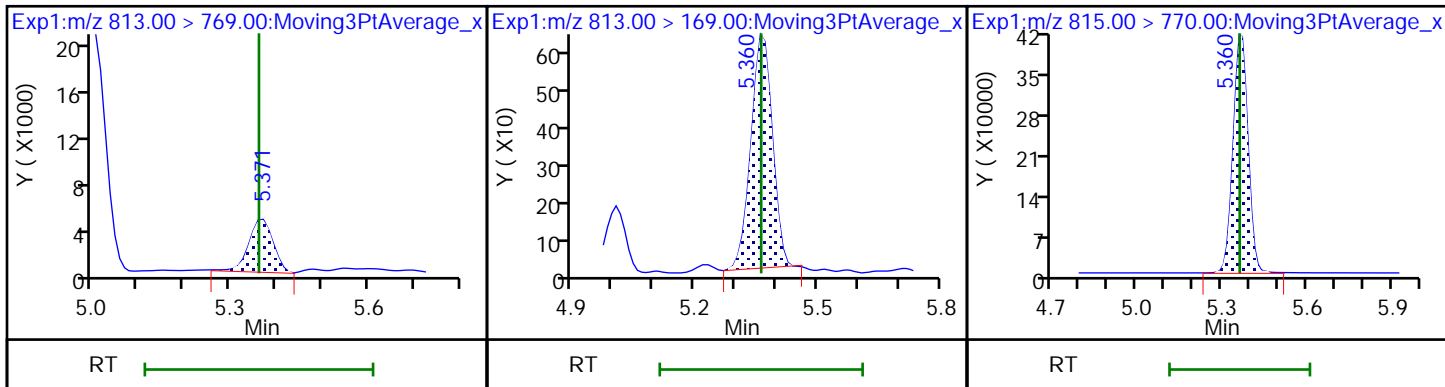
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

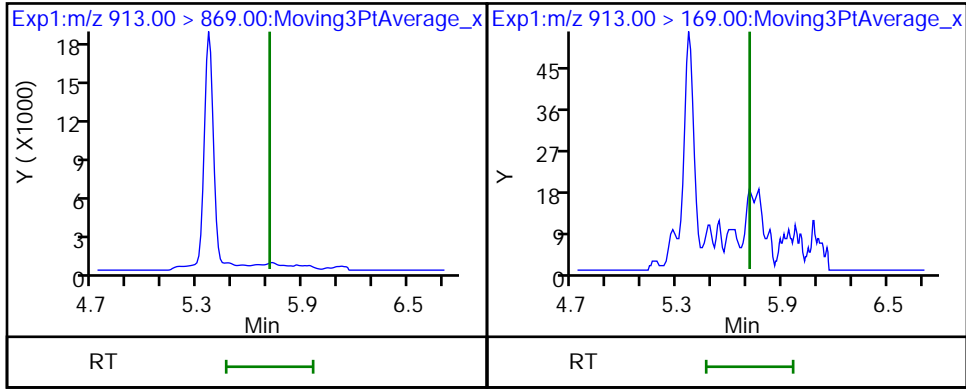
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

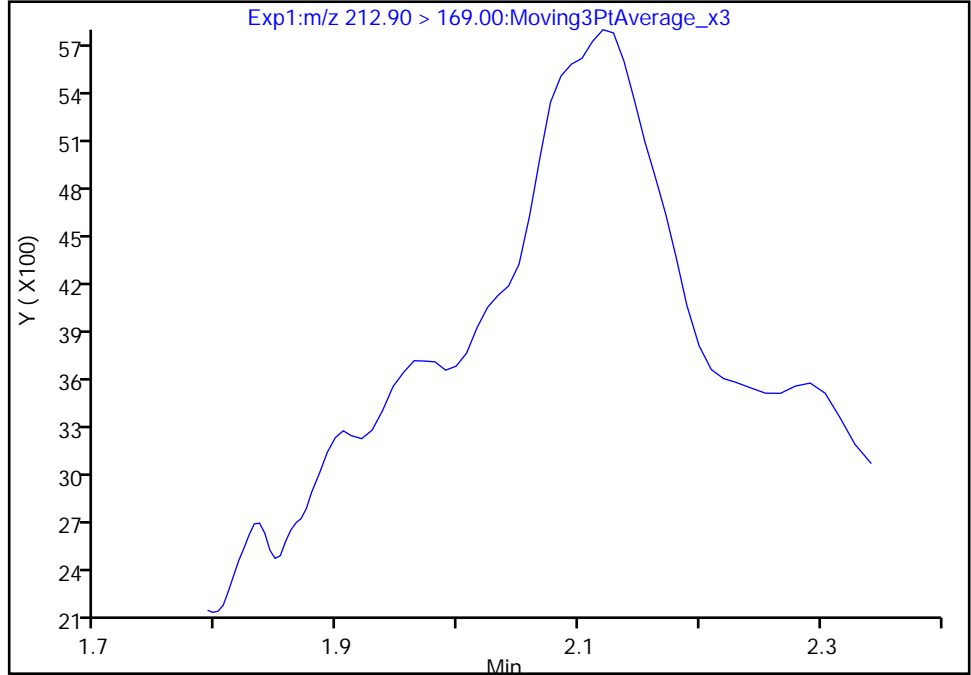
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Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

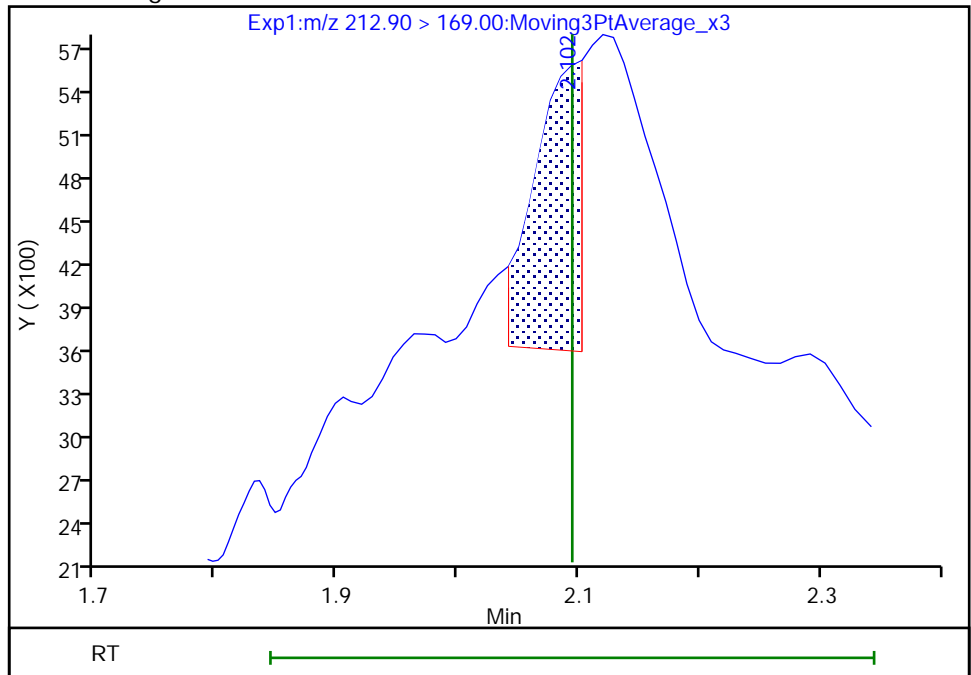
Not Detected
Expected RT: 2.09

Processing Integration Results



Manual Integration Results

RT: 2.10
Area: 5154
Amount: -0.040097
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:04:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

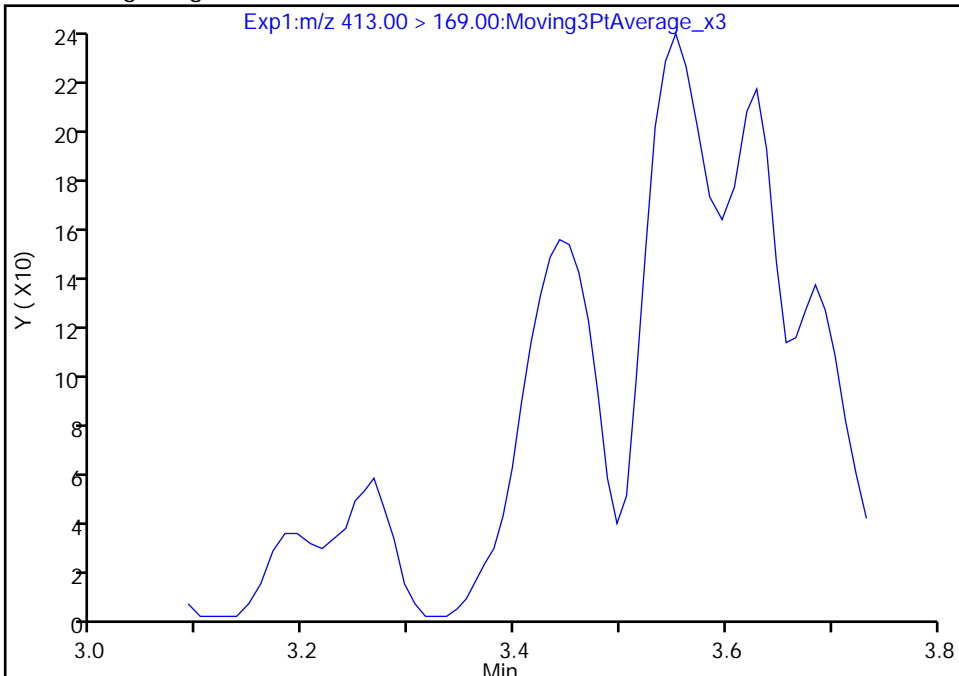
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Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

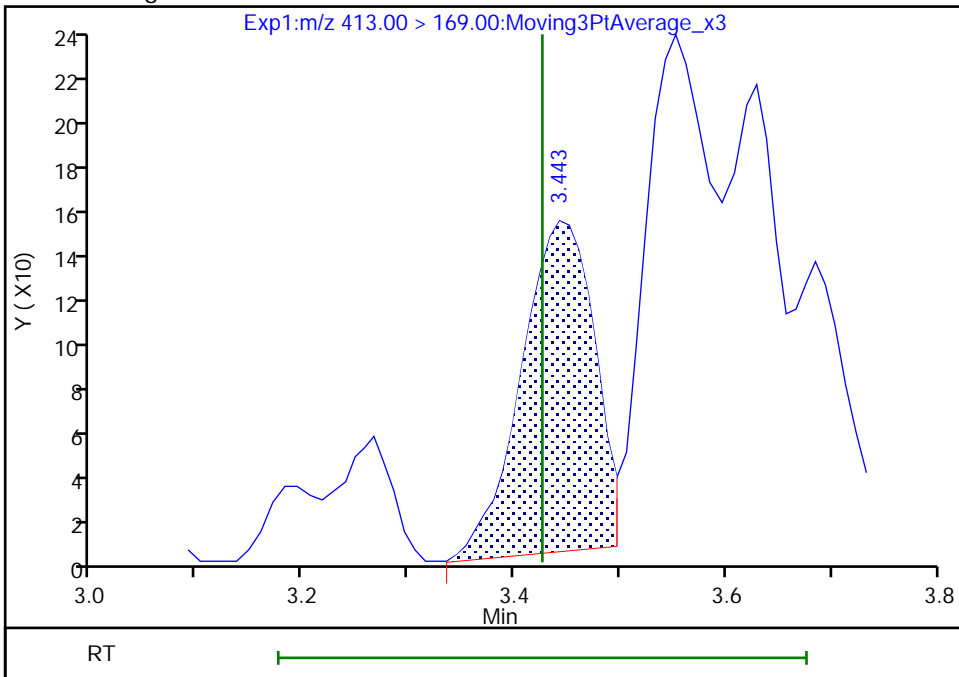
Not Detected
Expected RT: 3.43

Processing Integration Results



RT: 3.44
Area: 695
Amount: 0.005792
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:06:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

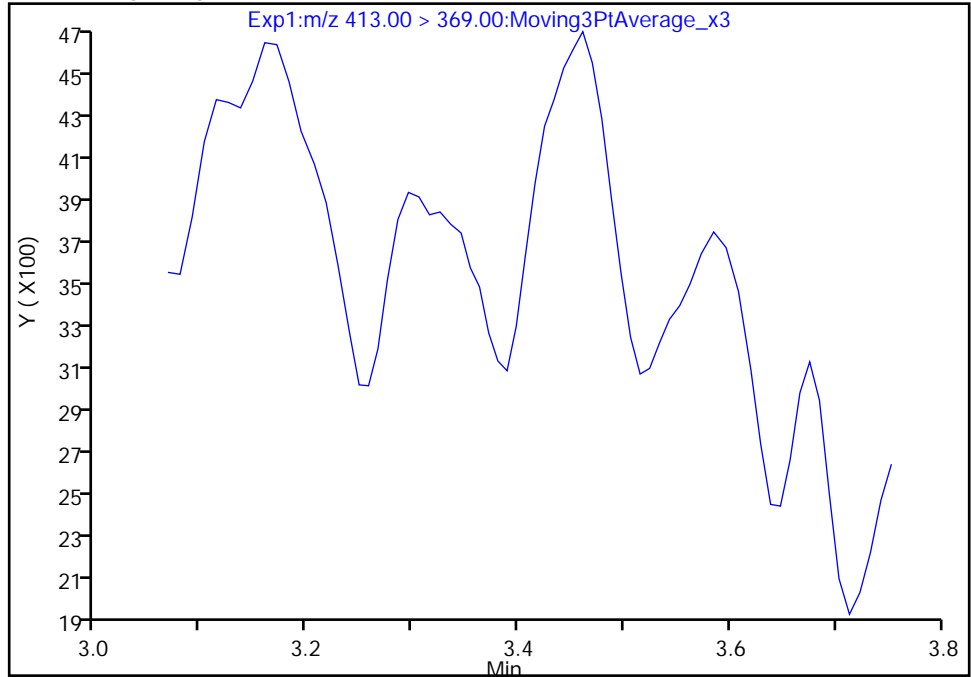
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

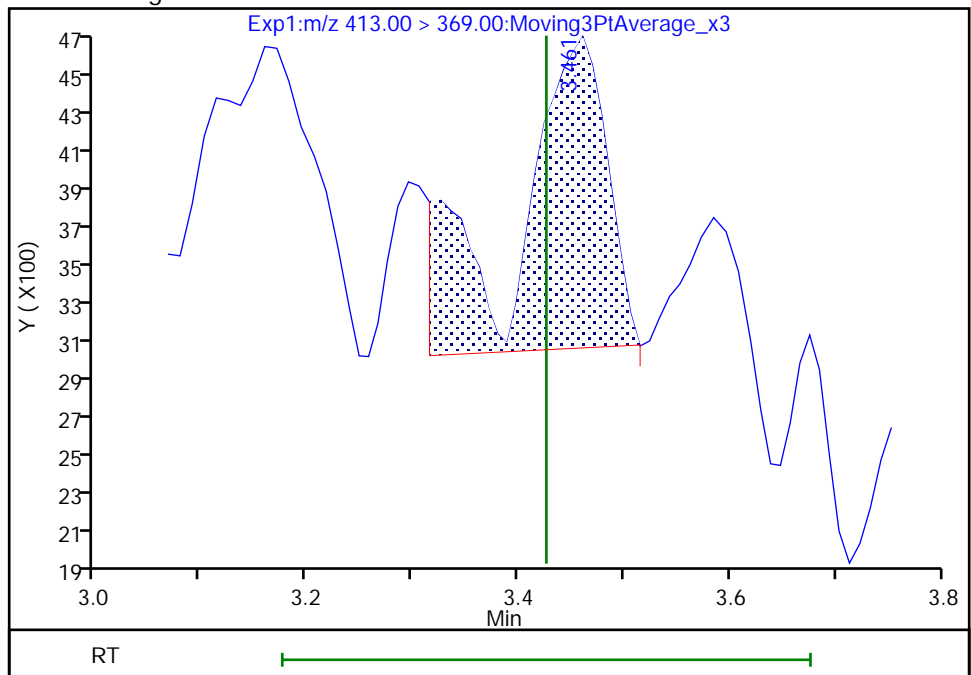
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 9116
Amount: 0.005792
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:06:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

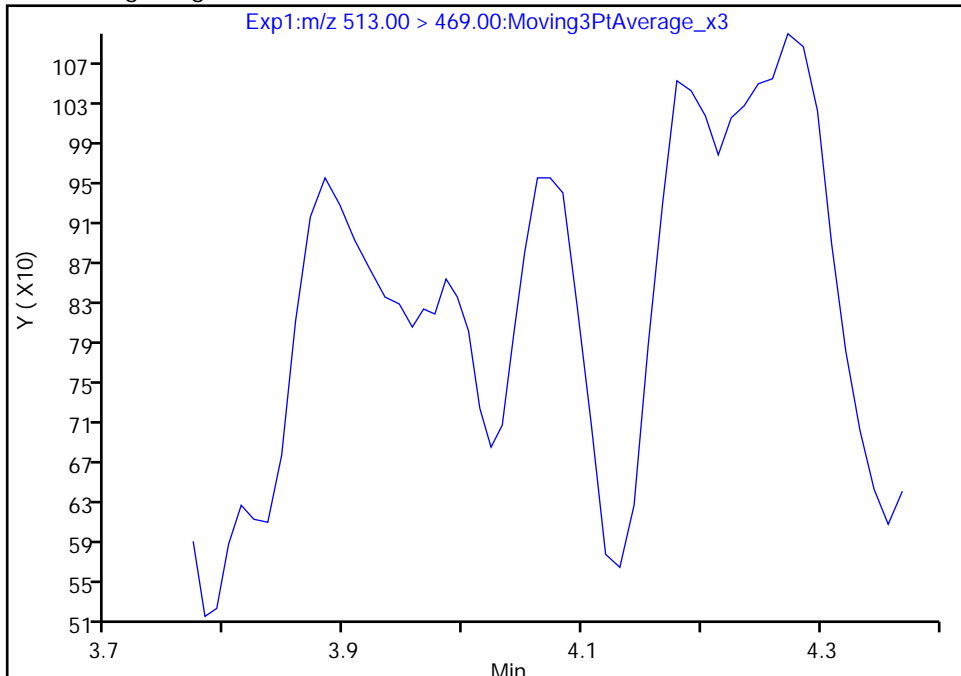
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

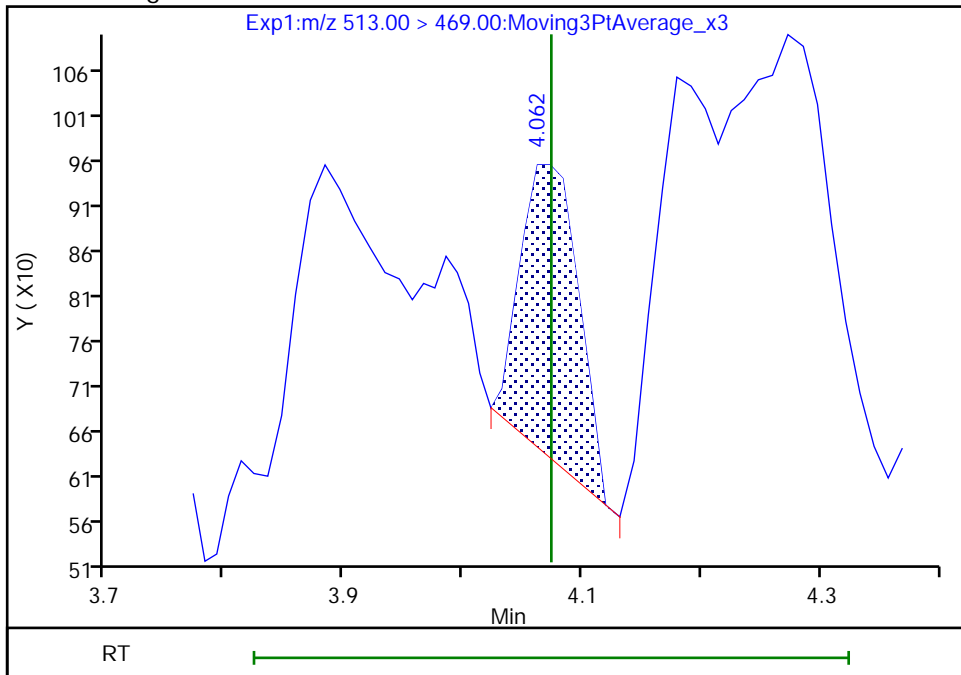
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.06
Area: 1098
Amount: 0.000728
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:08:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

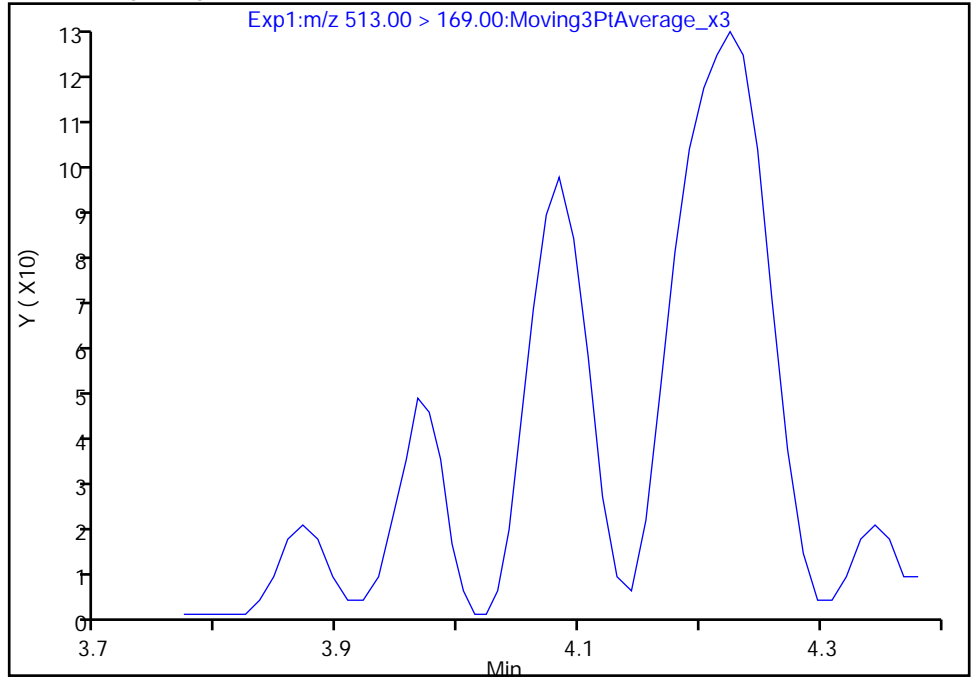
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

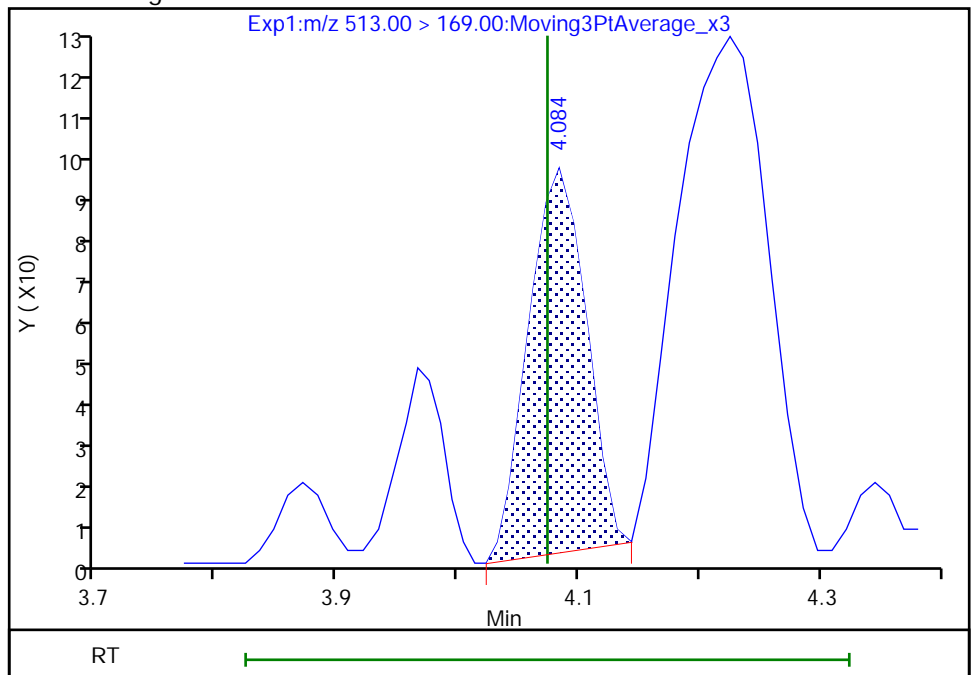
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 301
Amount: 0.000728
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:08:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

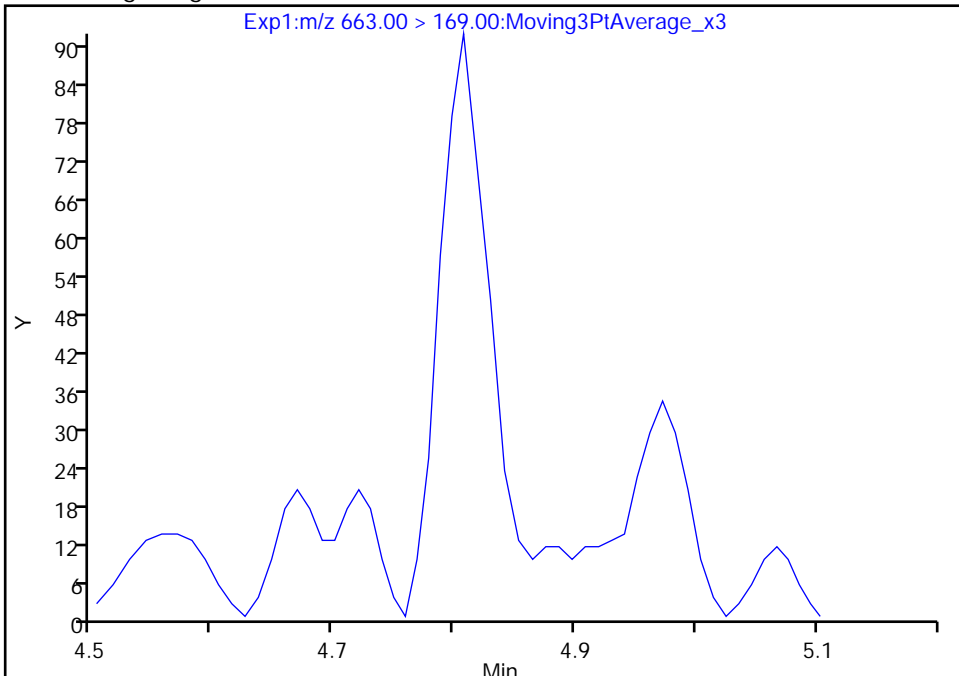
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

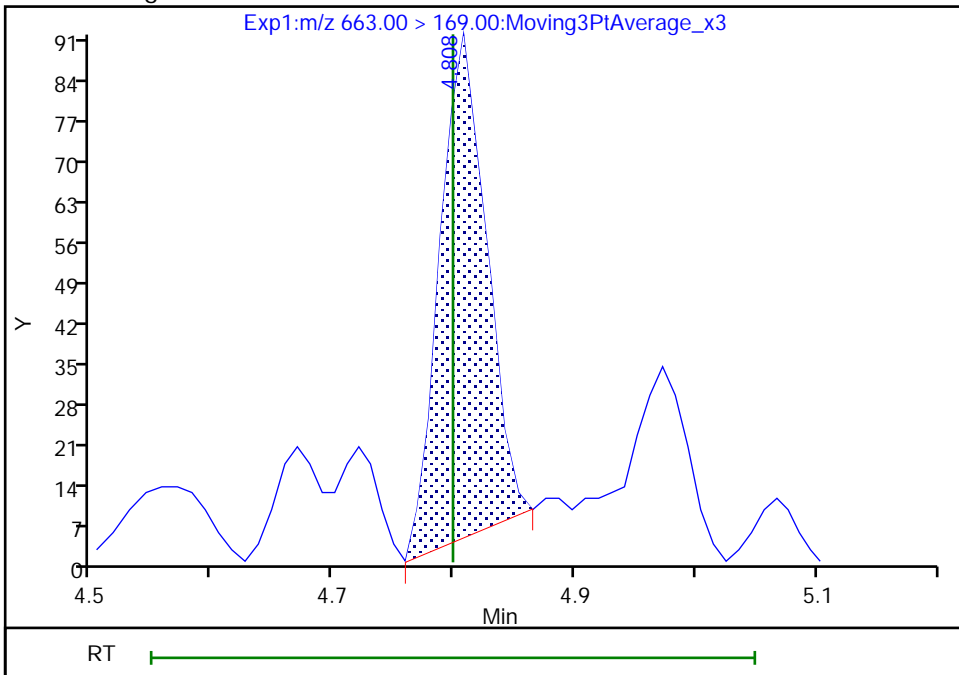
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.81
Area: 236
Amount: 0.002206
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:10:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

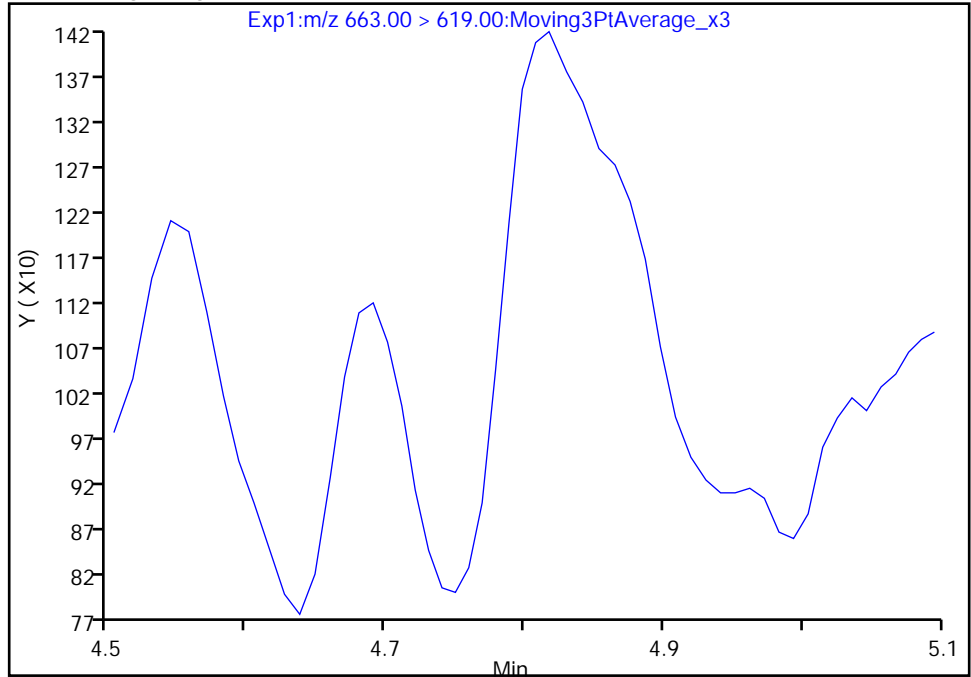
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

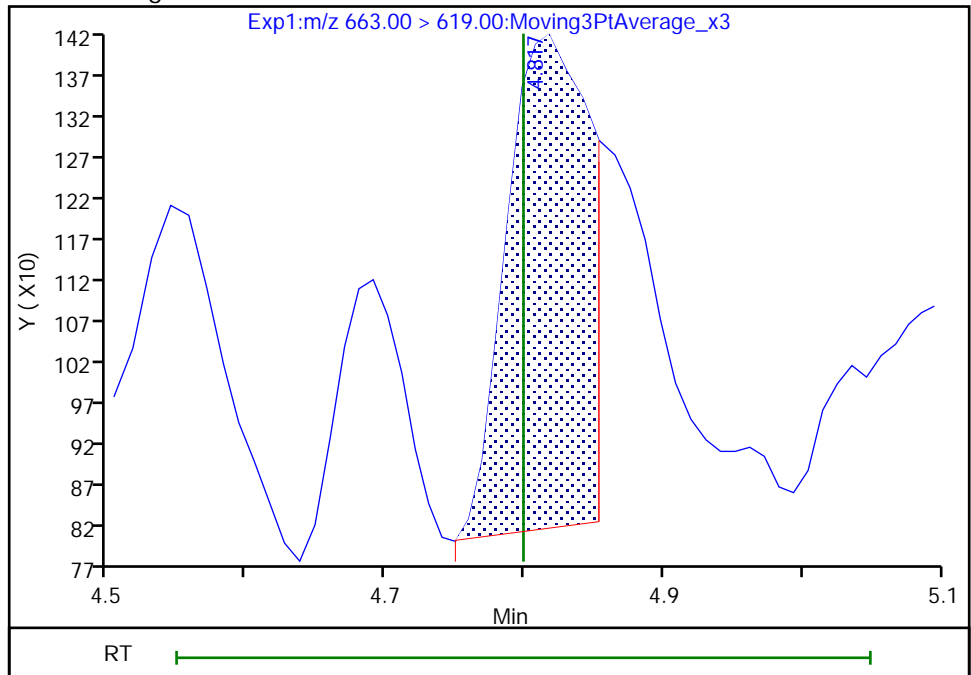
Not Detected
Expected RT: 4.80

Processing Integration Results



RT: 4.82
Area: 2410
Amount: 0.002206
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:10:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

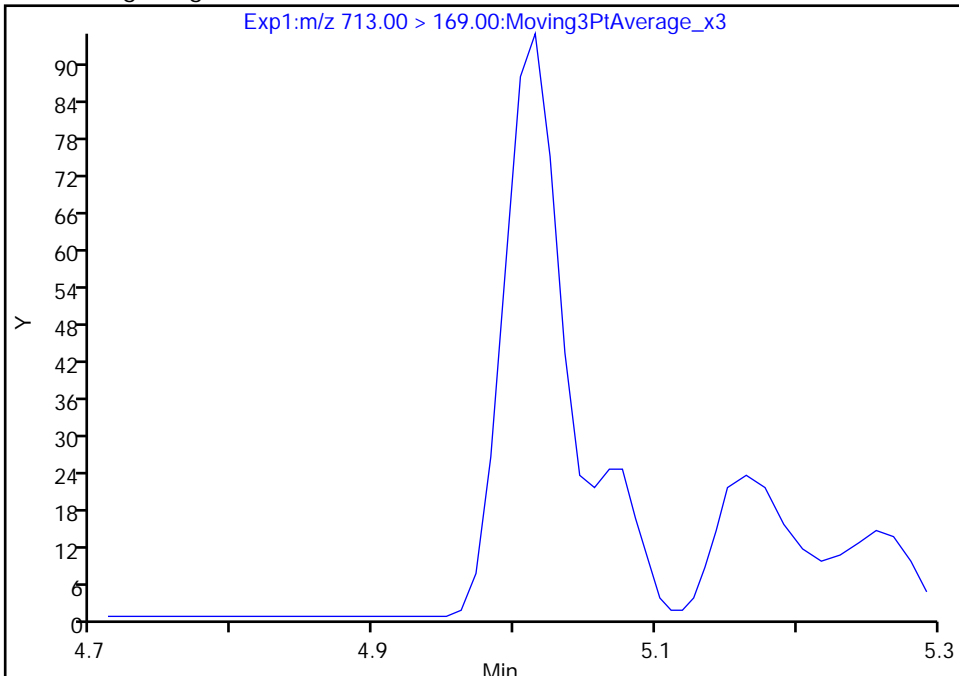
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

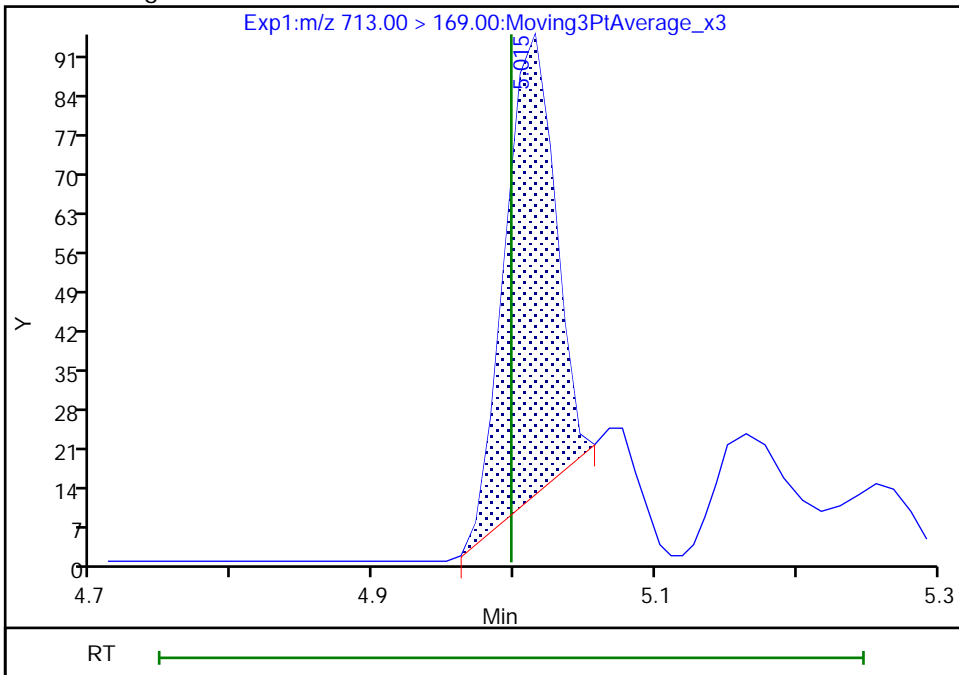
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 205
Amount: 0.001439
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:10:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

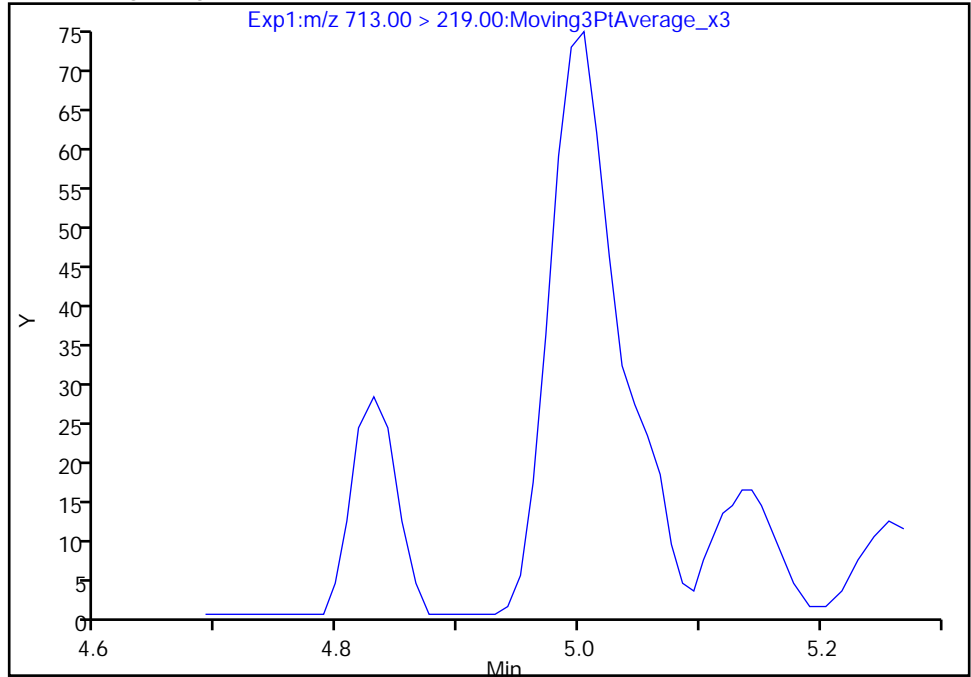
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

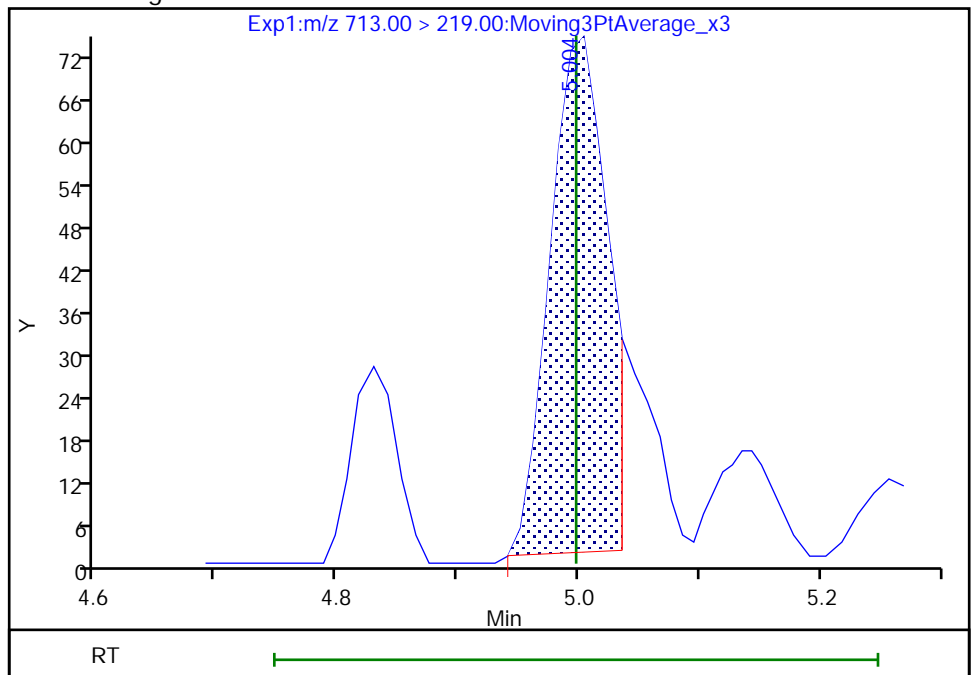
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 237
Amount: 0.001439
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:10:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

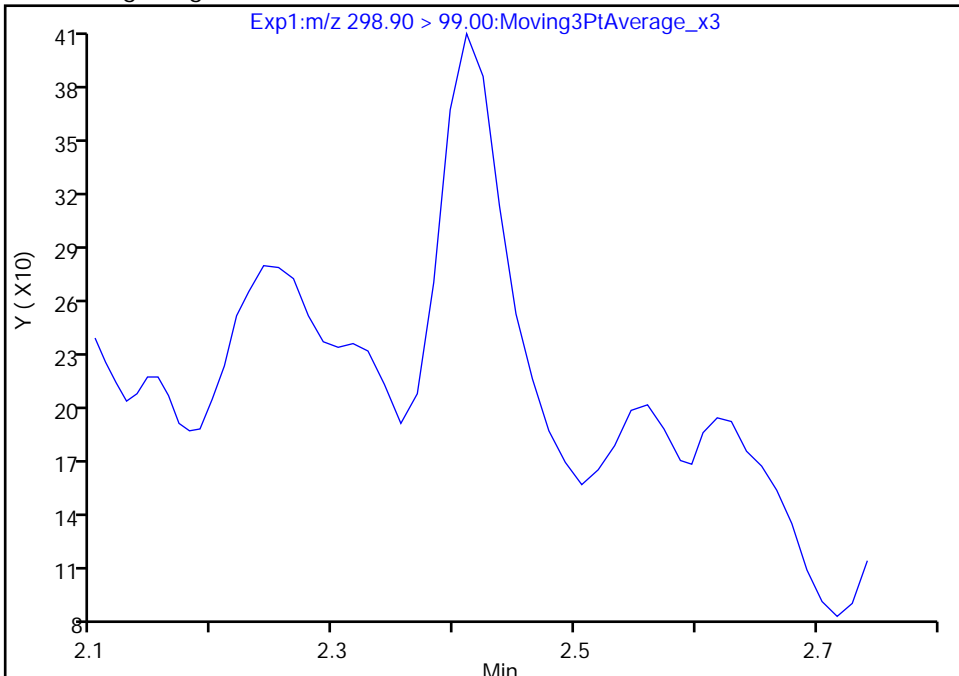
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

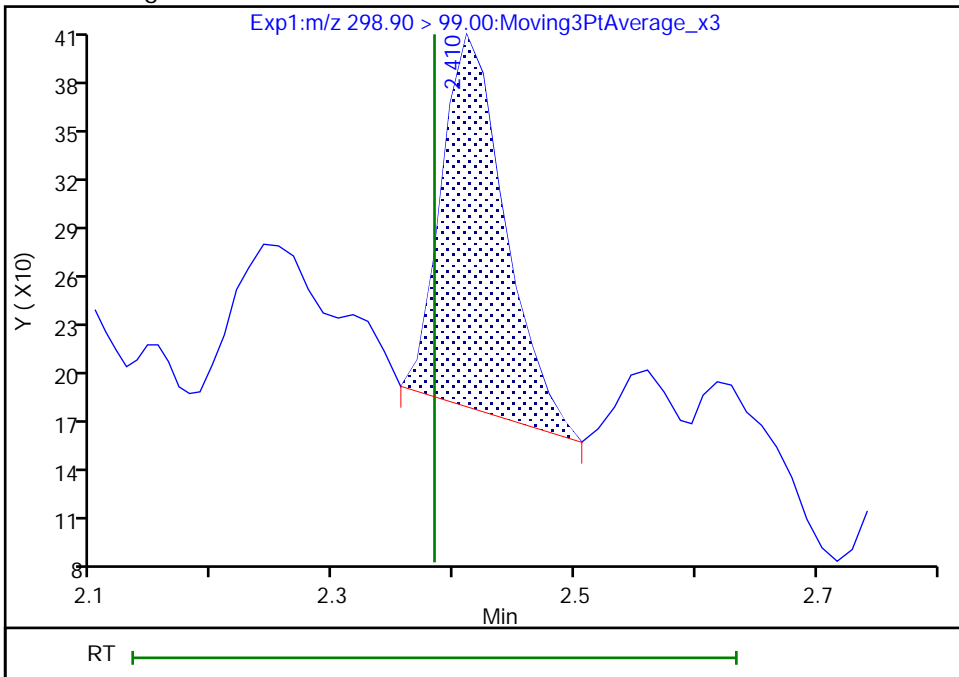
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 815
Amount: 0.001049
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:04:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

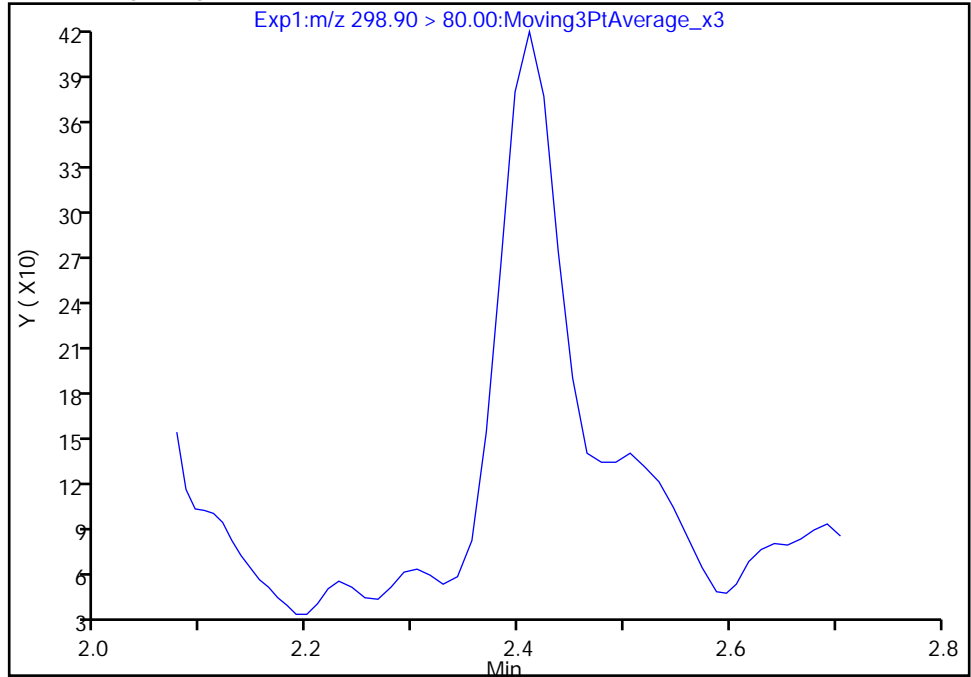
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

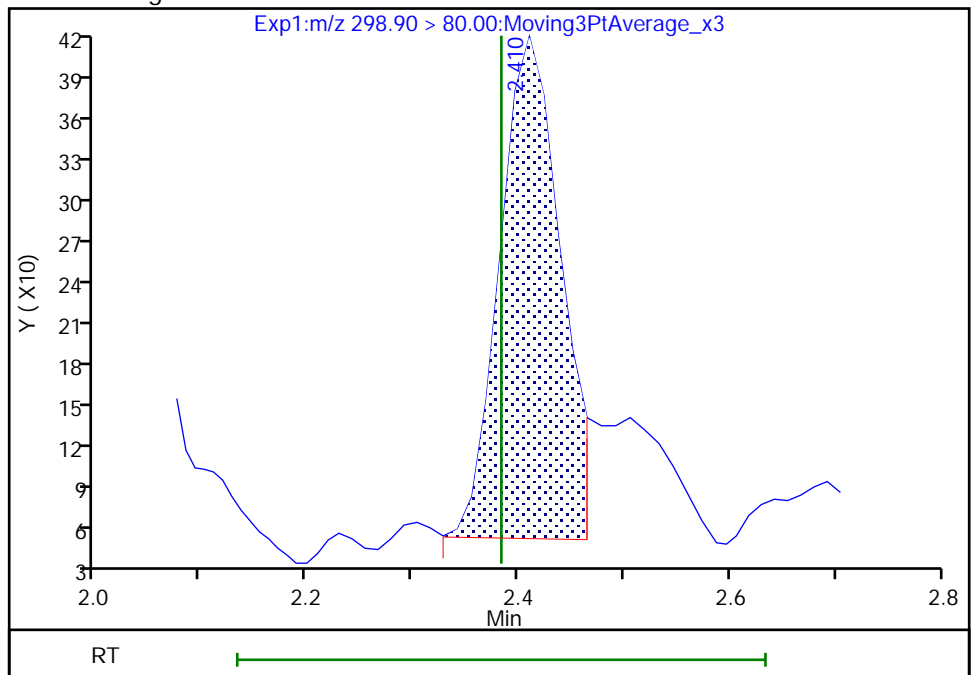
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1451
Amount: 0.001049
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:04:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

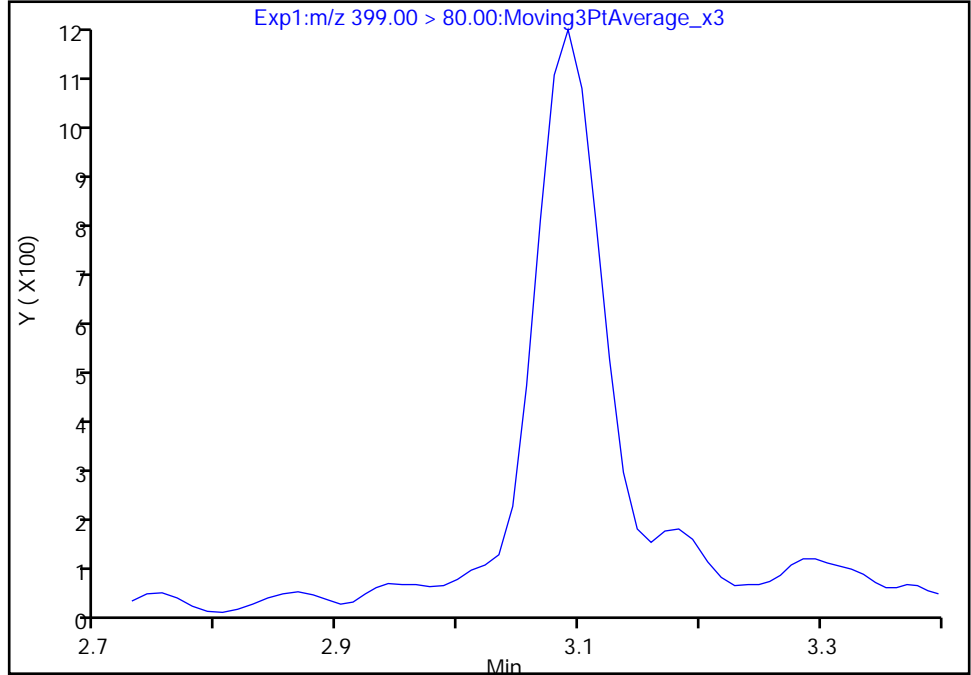
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

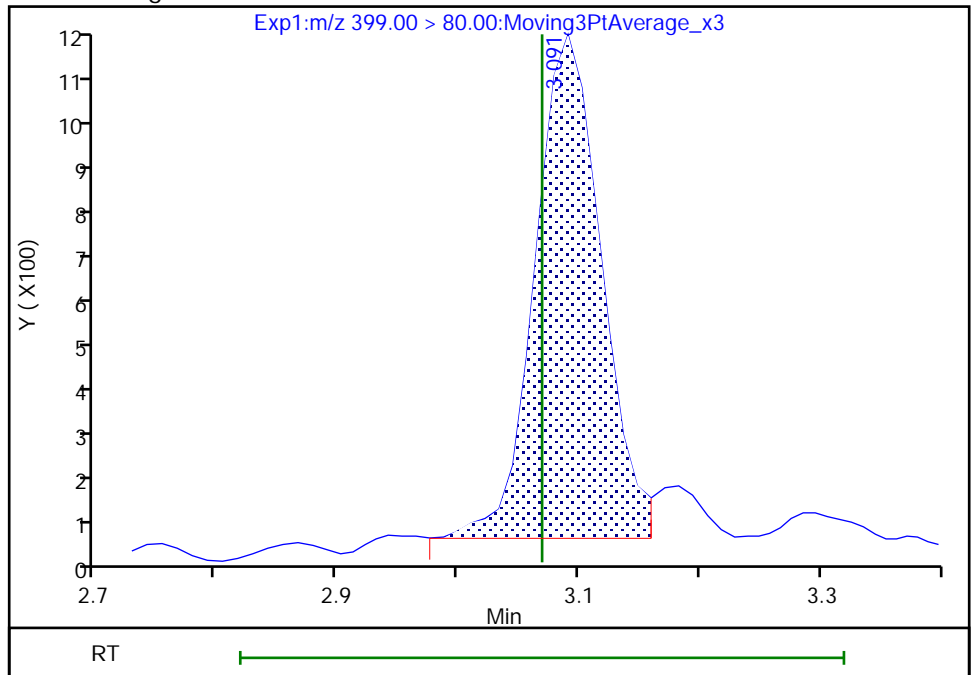
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 4110
Amount: 0.004494
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:05:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

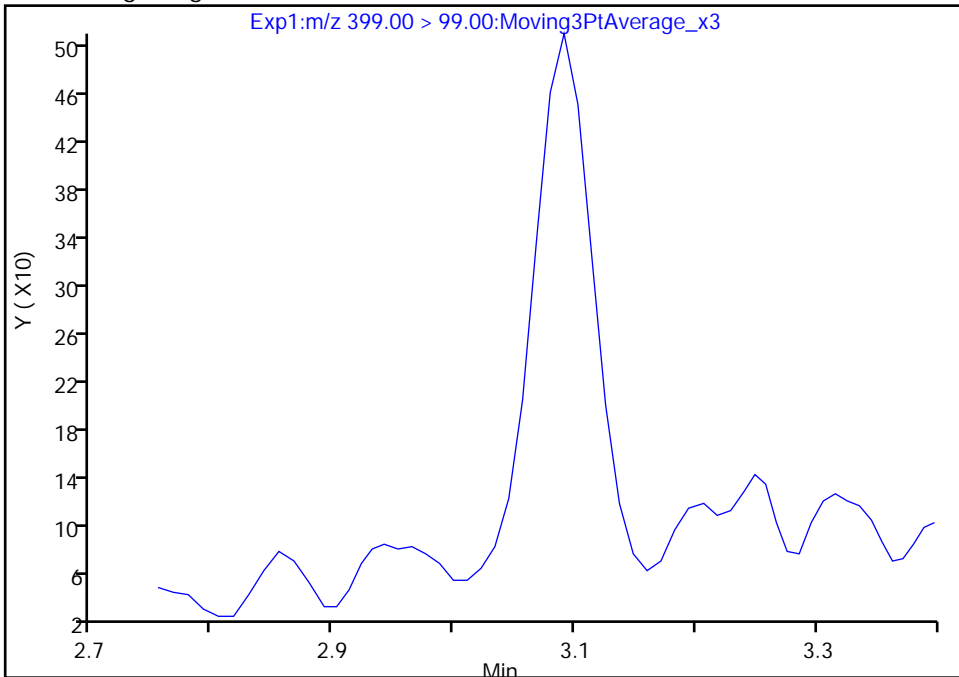
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

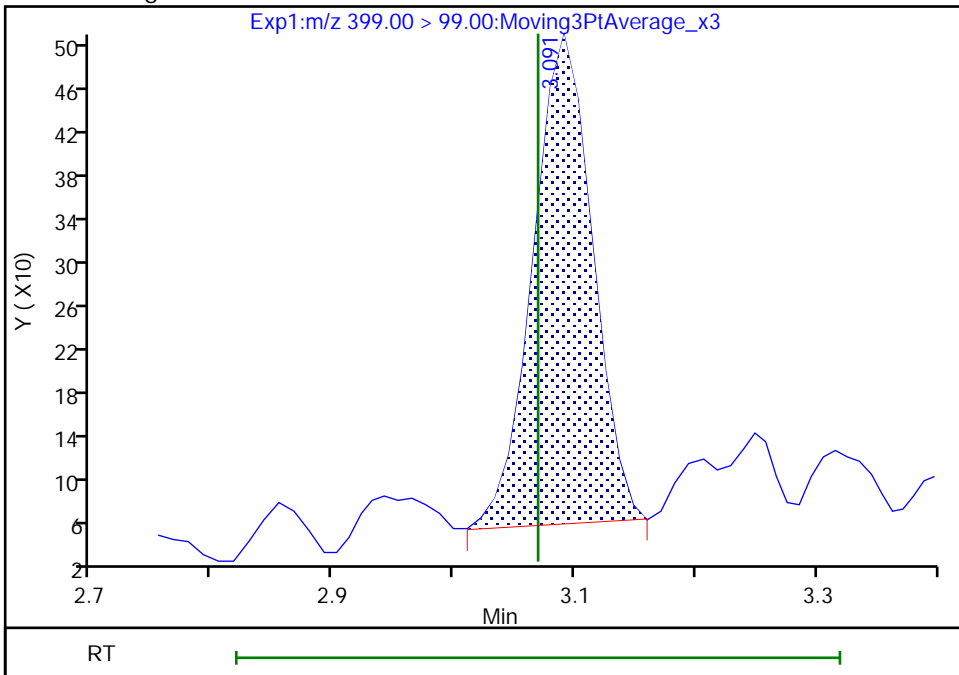
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 1546
Amount: 0.004494
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:06:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

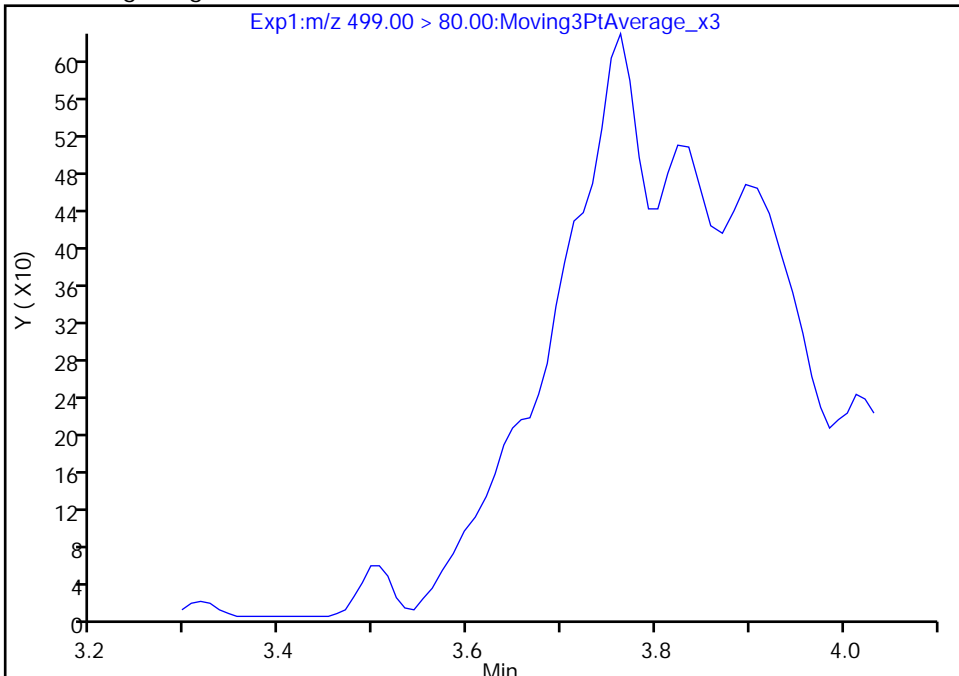
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

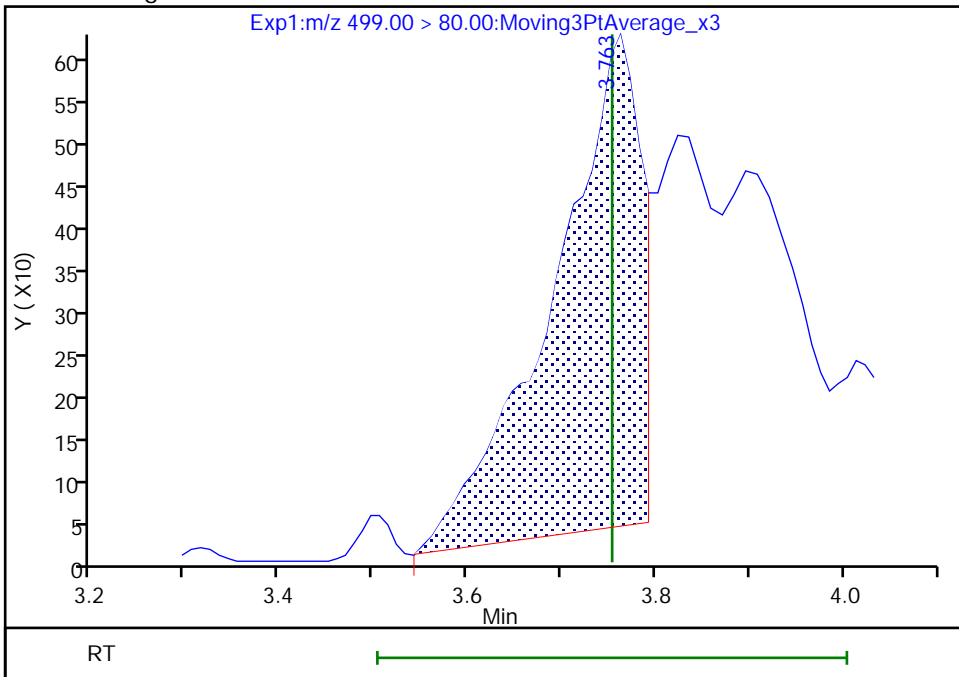
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.76
Area: 3722
Amount: 0.005254
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:07:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

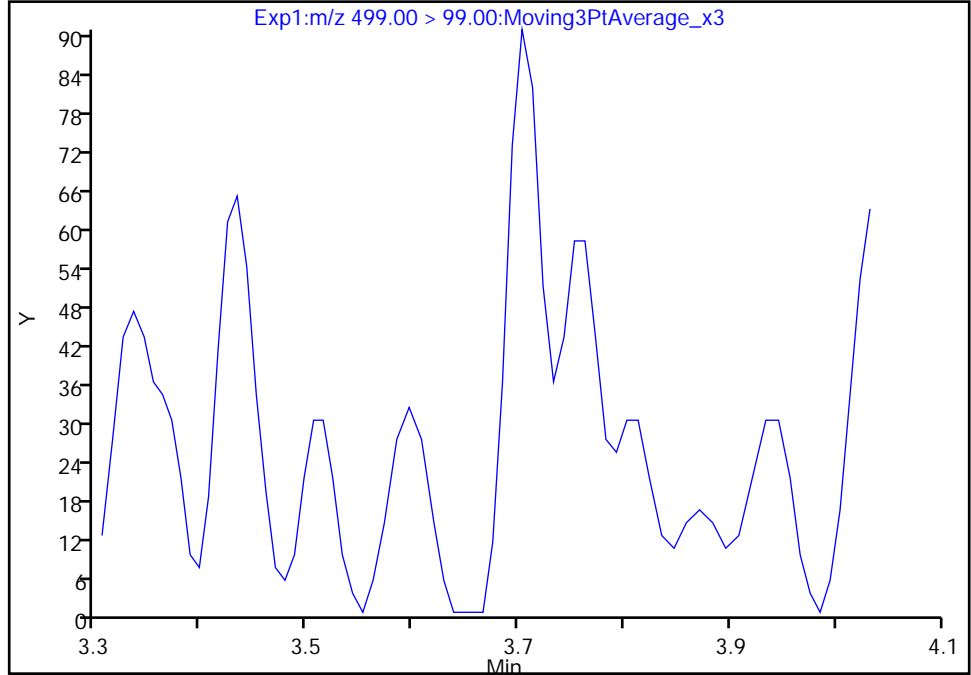
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

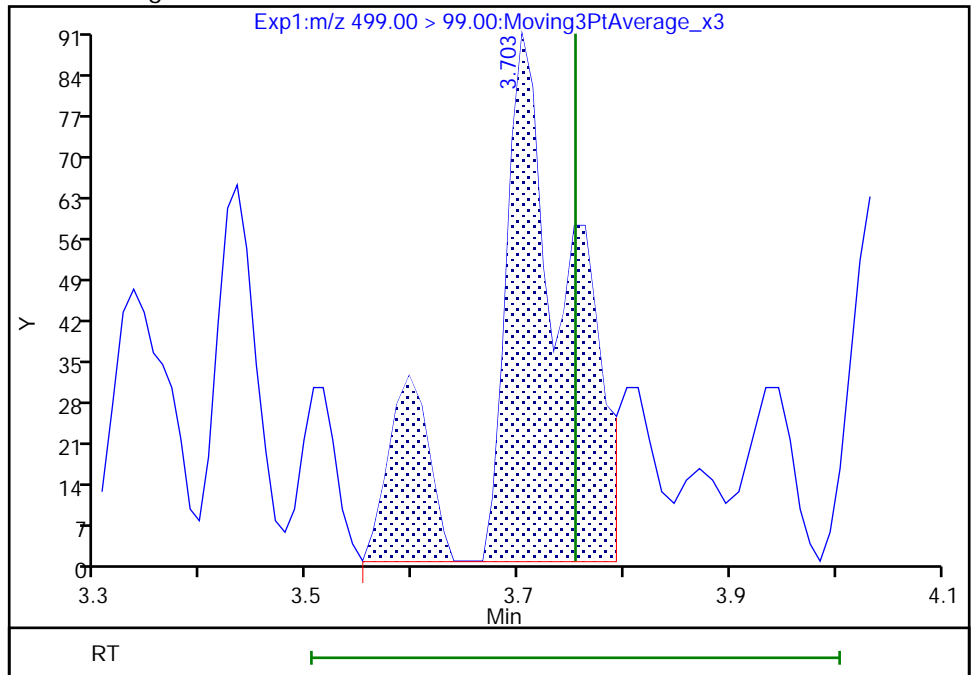
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.70
Area: 447
Amount: 0.005254
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:07:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

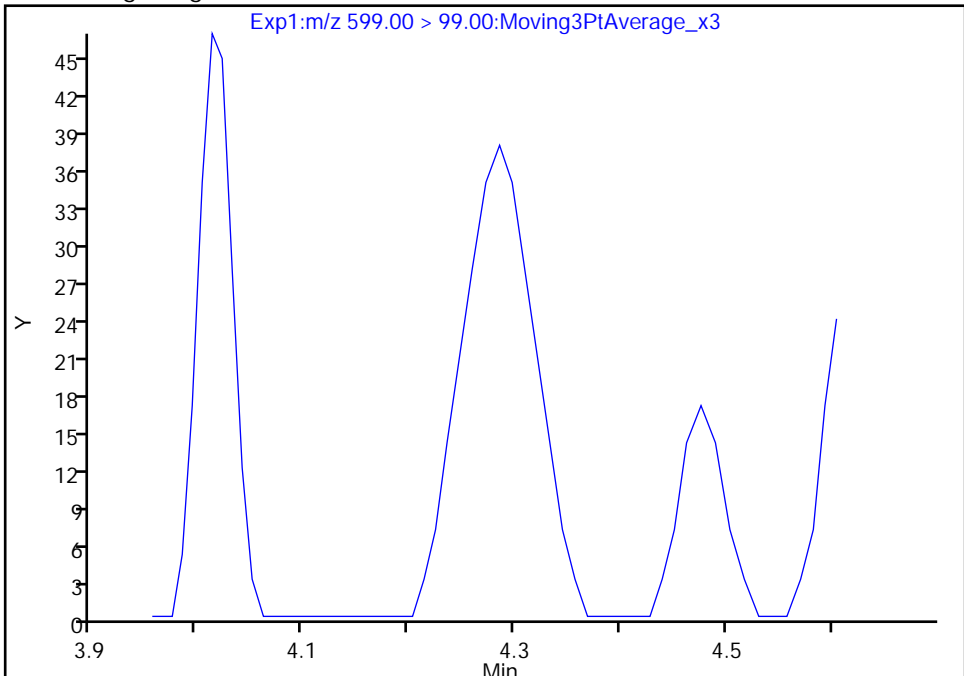
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

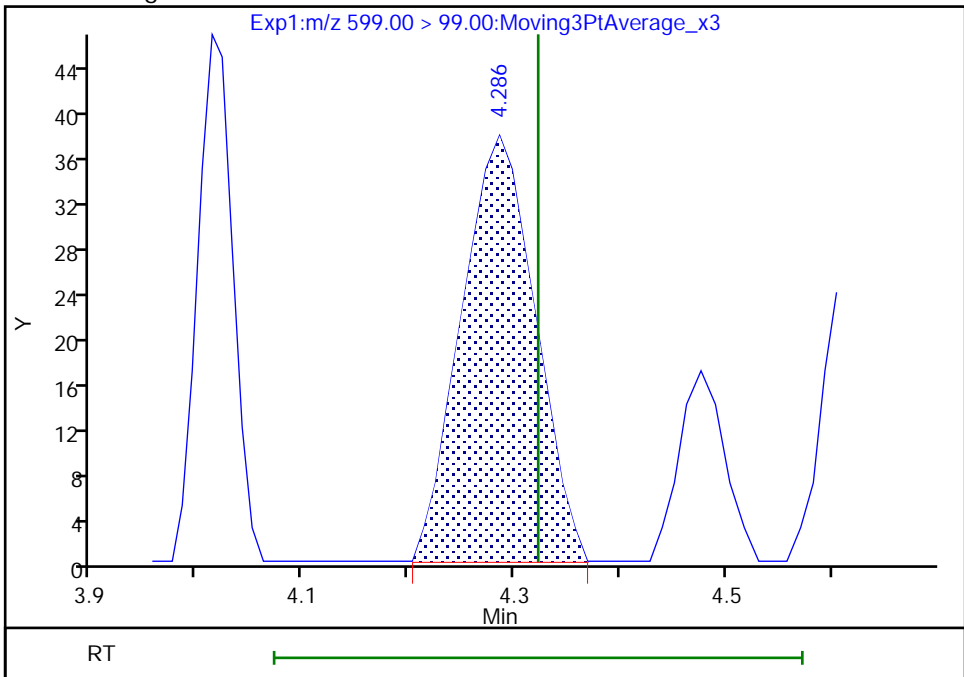
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.29
Area: 184
Amount: 0.000308
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:09:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

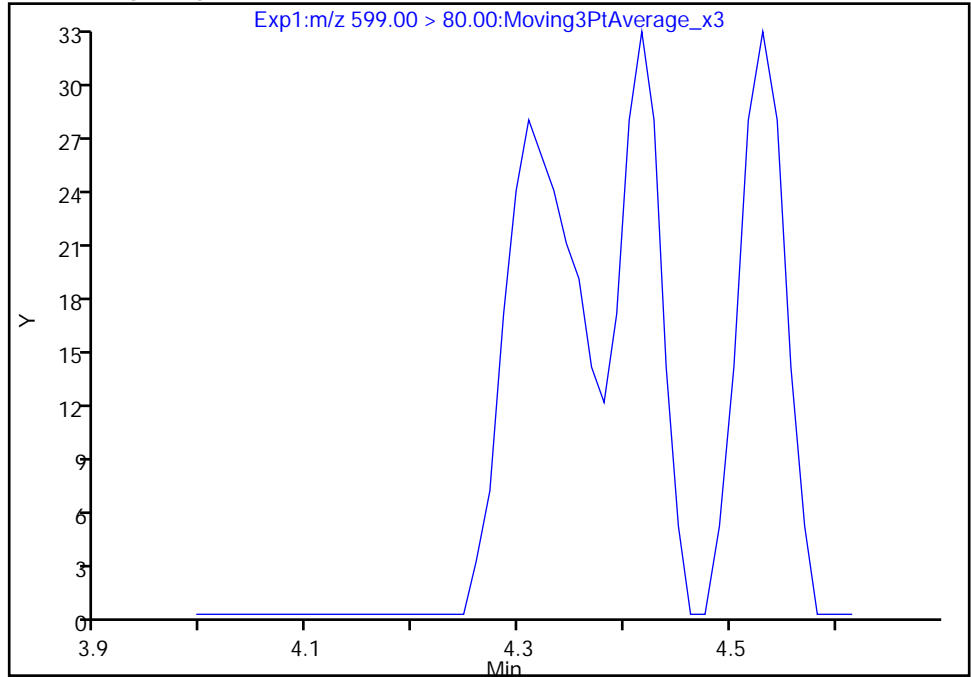
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

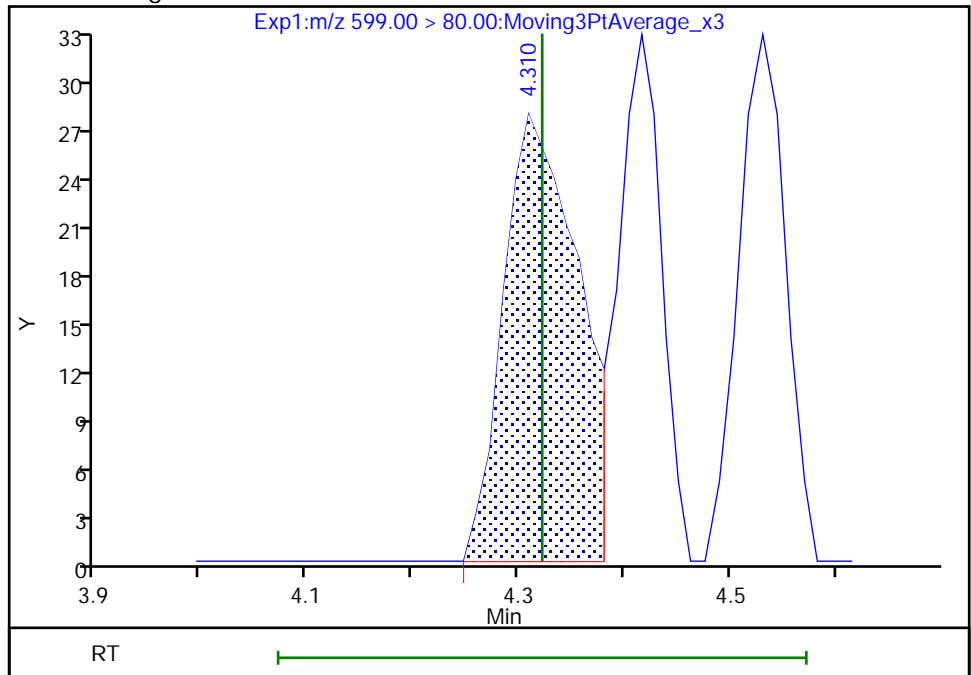
Not Detected
Expected RT: 4.32

Processing Integration Results



RT: 4.31
Area: 135
Amount: 0.000308
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:09:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

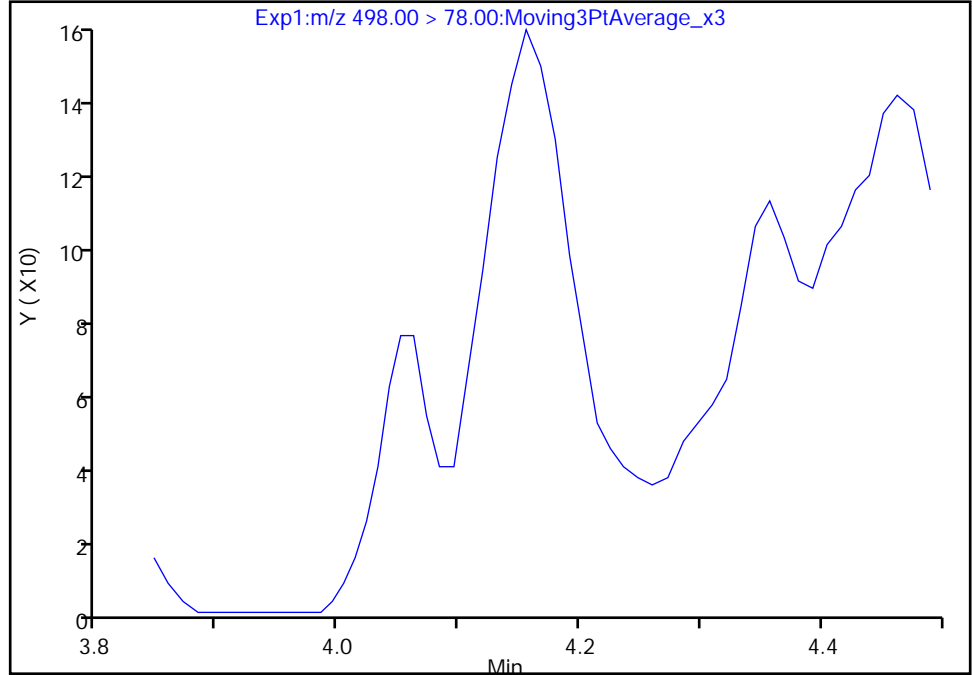
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

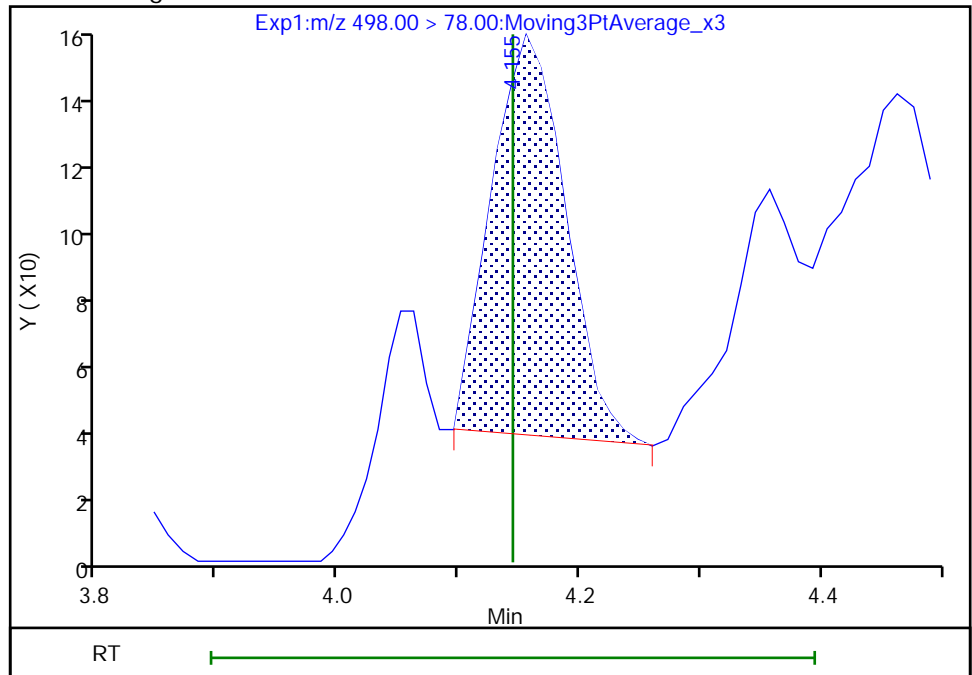
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 521
Amount: 0.000511
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:09:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

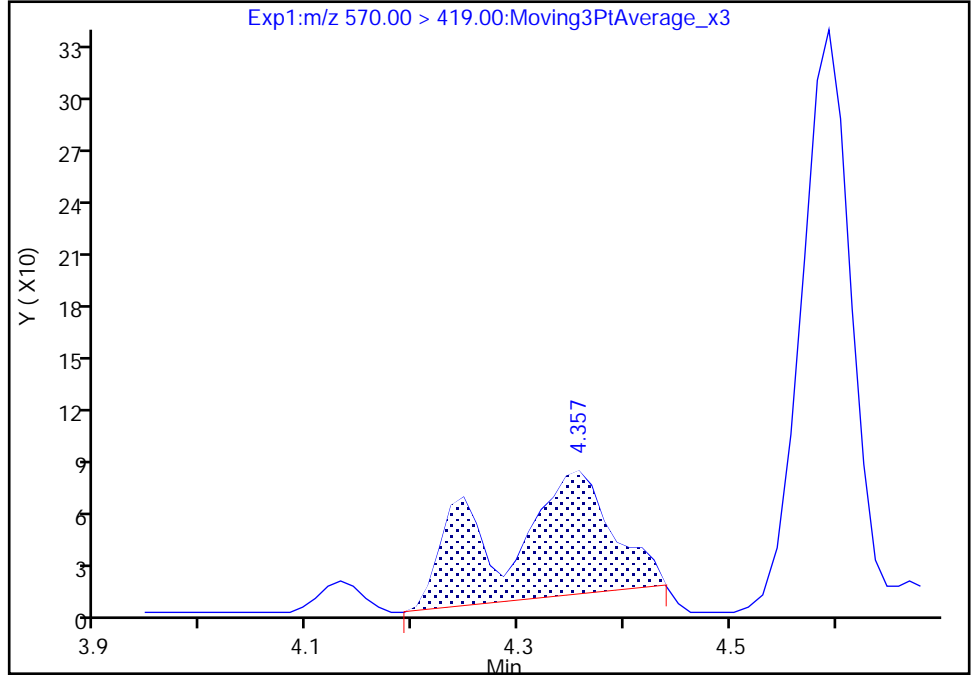
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

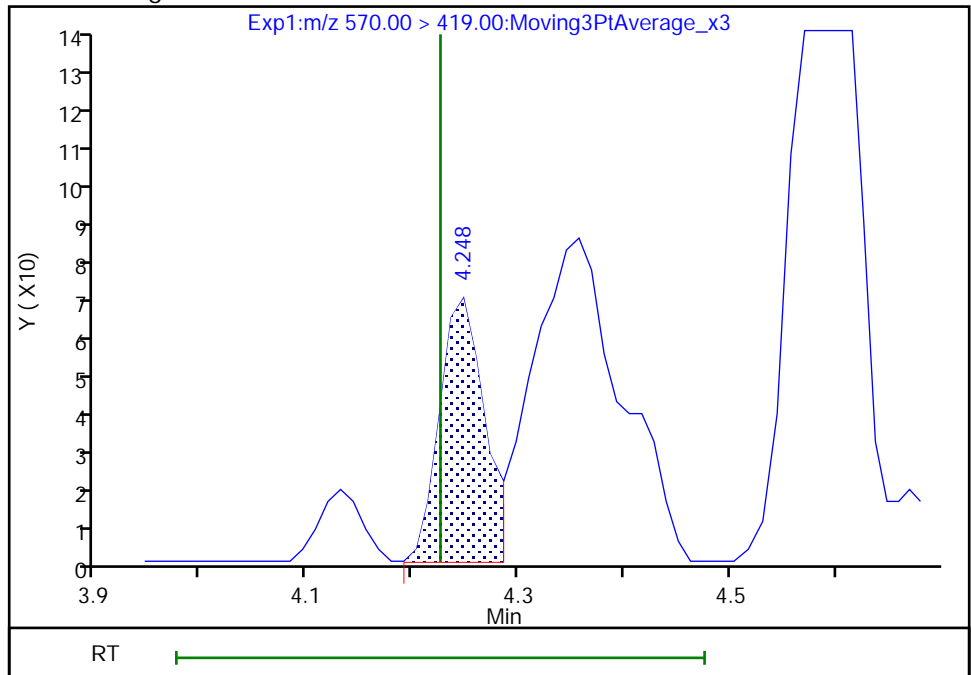
RT: 4.36
Area: 540
Amount: 0.001842
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 191
Amount: 0.000651
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:09:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

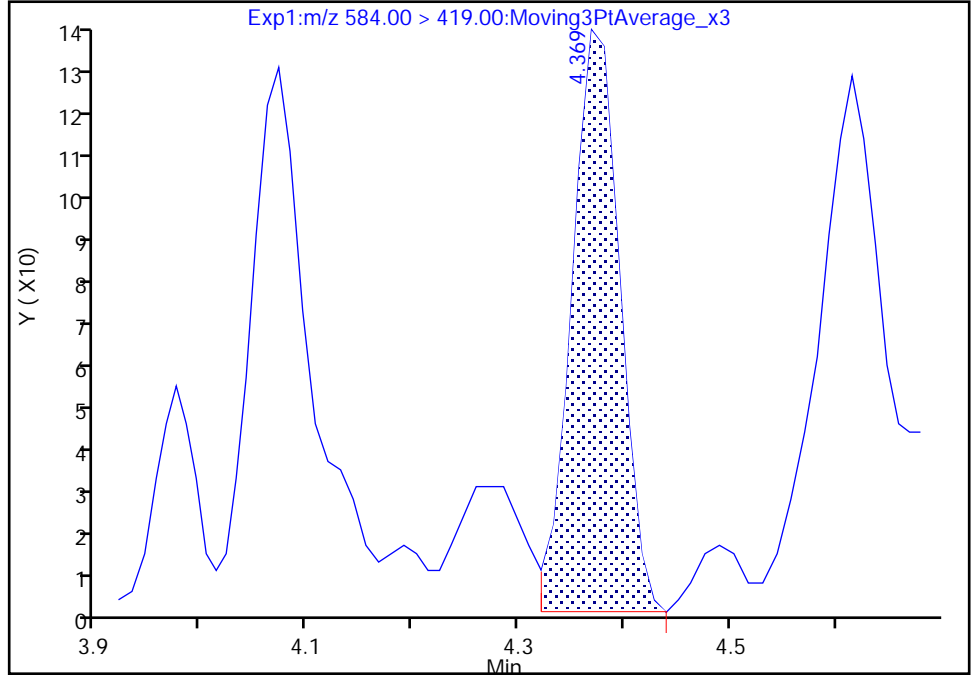
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

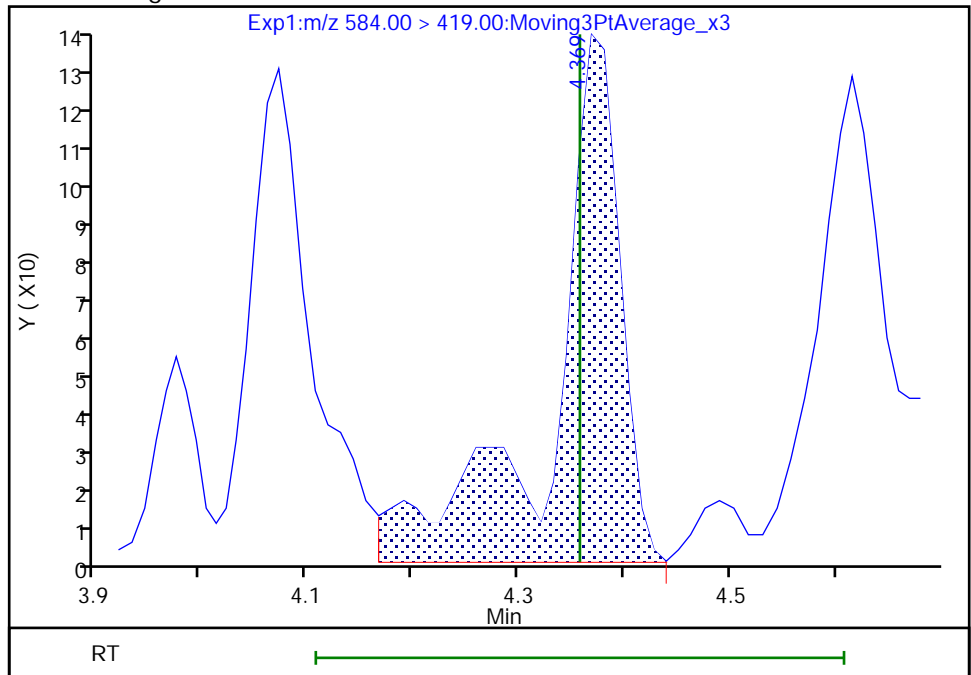
RT: 4.37
Area: 437
Amount: 0.001573
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 613
Amount: 0.002206
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:09:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

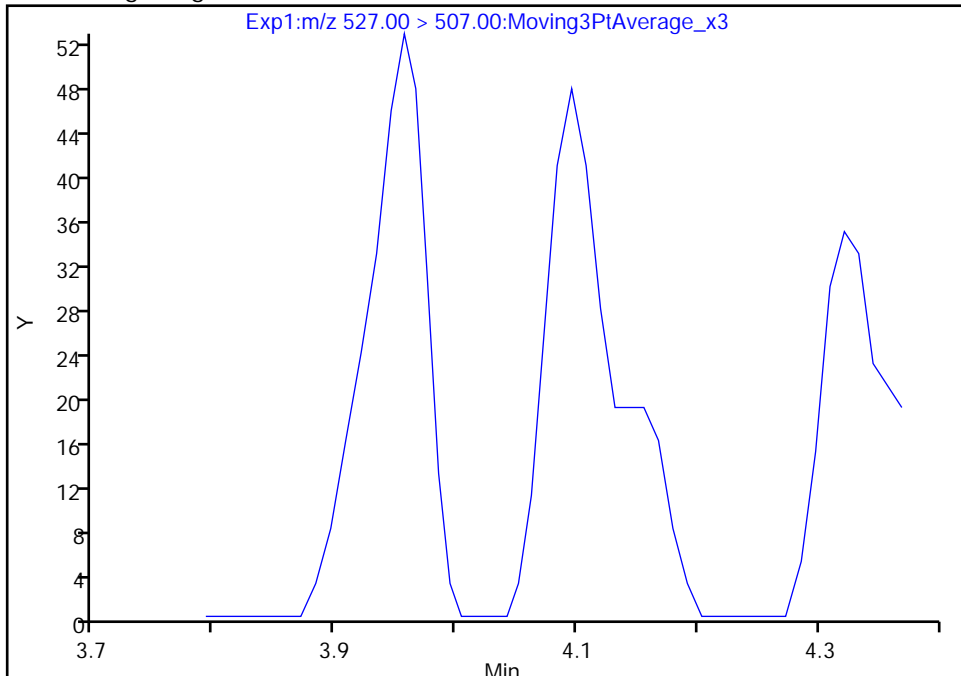
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

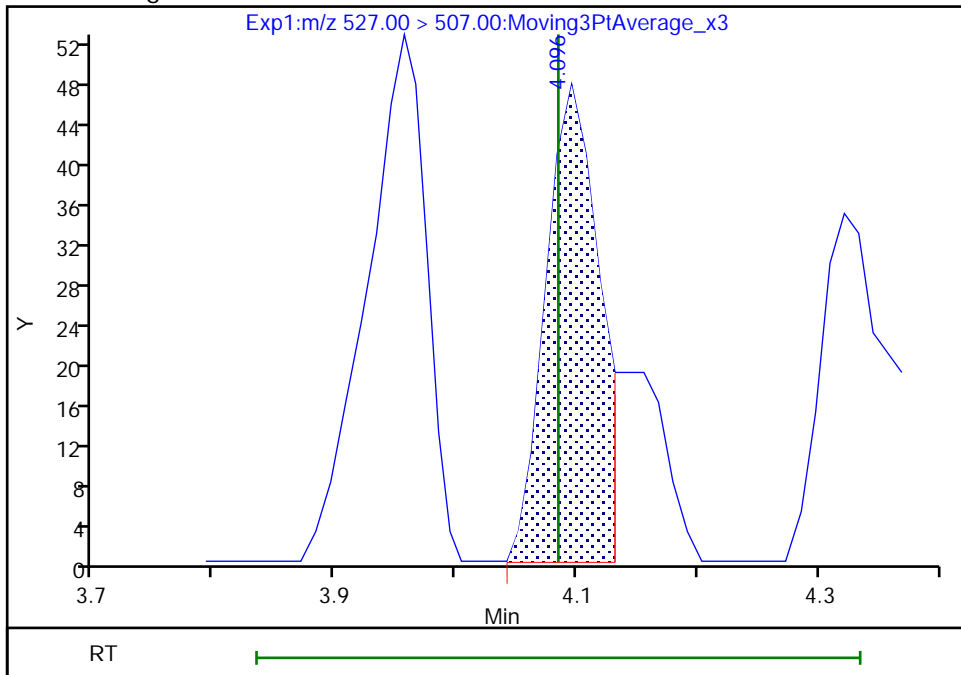
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 144
Amount: 0.000376
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:08:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

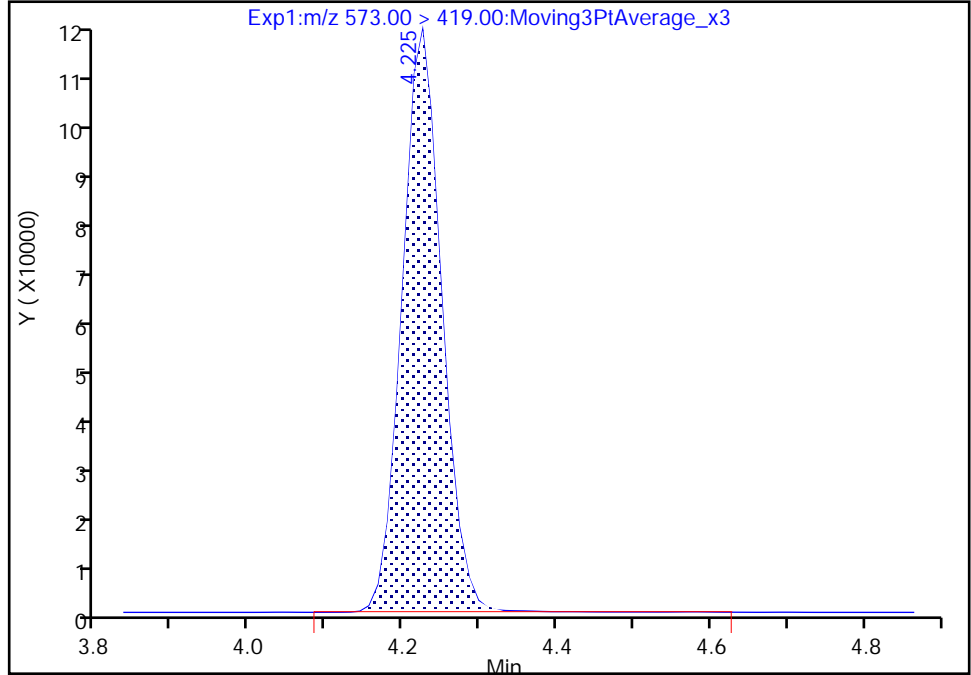
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

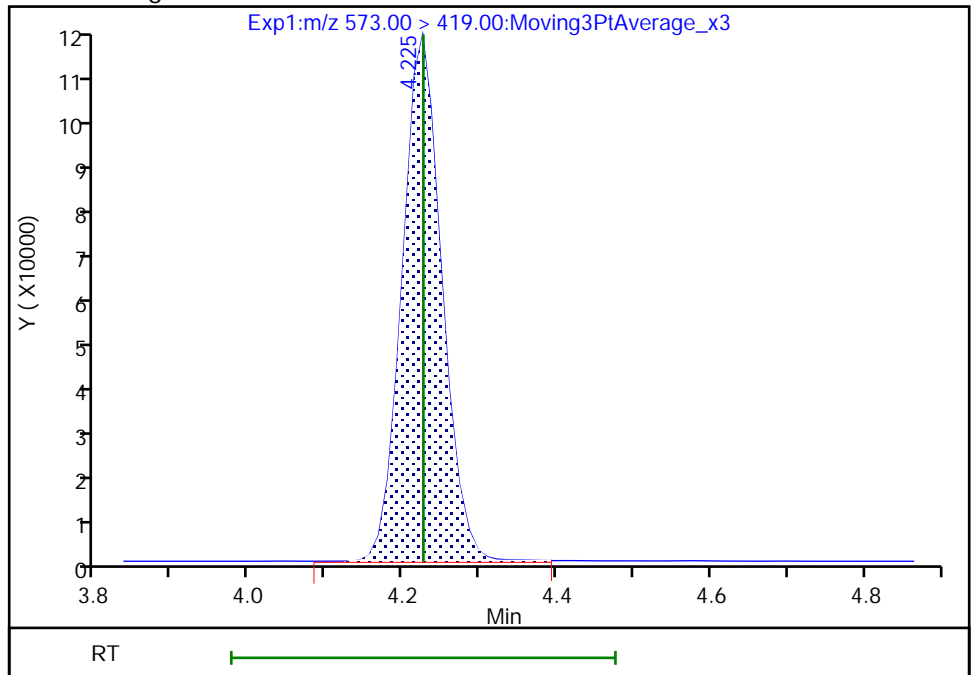
RT: 4.23
Area: 407372
Amount: 1.528652
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 406524
Amount: 1.525470
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:04:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-187441/11
 Matrix: Solid Lab File ID: PA230111ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/11/2023 18:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187441 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.050	U	0.050	0.023
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.13	U	0.13	0.048
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.13	U	0.13	0.040
27619-97-2	6:2 FTS	0.13	U	0.13	0.032
39108-34-4	8:2 FTS	0.050	U	0.050	0.020

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-187441/11
 Matrix: Solid Lab File ID: PA230111ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/11/2023 18:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187441 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	101		50-150
STL01892	13C4 PFHpA	102		50-150
STL00990	13C4 PFOA	102		50-150
STL00991	13C4 PFOS	105		50-150
STL00995	13C5 PFNA	105		50-150
STL00992	13C4 PFBA	96		50-150
STL00993	13C2 PFHxA	98		50-150
STL00996	13C2 PFDA	93		50-150
STL00997	13C2 PFUnA	101		50-150
STL00998	13C2 PFDoA	97		50-150
STL01056	13C8 FOSA	94		50-150
STL01893	13C5 PFPeA	106		50-150
STL02116	13C2 PFTeDA	100		50-150
STL02118	d3-NMeFOSAA	96		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	102		50-150
STL02280	M2-8:2 FTS	106		50-150
STL02337	13C3 PFBS	101		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 11-Jan-2023 18:32:02 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0053969-011 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:25:58 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 13:26:18

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.604	2178409	1.20	96.0	14312	
2 Perfluorobutanoic acid	212.90 > 169.00	2.147	2.094	0.053	1.029	57941	-0.008302		2.6	
D 3 13C5 PFPeA	267.90 > 223.00	2.398	2.370	0.028	0.694	1953010	1.33	106	7068	
4 Perfluoropentanoic acid	262.90 > 219.00	2.329	2.370	-0.041	0.972	1662	0.000929		0.1	
D 47 13C3 PFBS	301.90 > 80.00	2.411	2.384	0.027	0.698	1895278	1.18	101	246225	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.000	3136	0.001795	Target=2.10	5.4	RM
	298.90 > 99.00	2.398	2.384	0.014	0.994	993	3.16(1.05-3.15)		0.7	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.706	2.669	0.037	1.000	325	0.000906		7.3	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.706	2.669	0.037	0.783	141479	1.09	93.0	195	
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.791	1865894	1.22	97.9	8830	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.844	2.806	0.038	1.000	255	0.001036		3.4	
D 64 13C3 HFPO-DA	287.00 > 169.00	2.844	2.806	0.038	0.823	307736	1.17	93.2	4903	
D 11 18O2 PFHxS	403.00 > 84.00	3.093	3.069	0.024	0.895	1403539	1.20	101	5832	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.093	3.069	0.024	1.000	6190	0.004751	Target=3.18	24.0		M
399.00 > 99.00	3.093	3.069	0.024	1.000	1759		3.52(1.59-4.77)	3.4		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.104	3.069	0.035	0.898	1949461	1.28		102	7004	
77 DONA										M
377.00 > 251.00	3.138	3.104	0.034	0.834	3024	0.000703	Target=2.96	3.1		
377.00 > 85.00	3.138	3.104	0.034	0.834	1167		2.59(1.48-4.44)	2.5		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.437	3.417	0.020	0.995	224348	1.21		102	874	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.455	3.417	0.038	1.005	762	0.001761			1.4	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.426	0.020	0.997	2066799	1.28		102	8112	
* 62 13C2 PFOA										
415.00 > 370.00	3.455	3.426	0.029		1973325	1.25			6322	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.754	0.010	1.089	895929	1.26		105	6684	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.773	3.754	0.019	1.003	2928	0.003215	Target=4.23	3.3		M
499.00 > 99.00	3.754	3.754	0.0	0.997	827		3.54(2.11-6.34)	2.2		M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.774	0.009	1.095	2058161	1.31		105	11440	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.935	3.922	0.013	1.045	1514	0.000696		6.1		M
68 Perfluorononanesulfonic acid										RM
549.00 > 80.00	4.052	4.043	0.009	1.077	915	0.001210	Target=2.37	10.0		RM
549.00 > 99.00	4.052	4.043	0.009	1.077	1204		0.76(1.18-3.55)	7.4		M
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.182	1881797	1.16		93.2	8384	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.096	4.085	0.011	1.186	295110	1.27		106	1350	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.096	4.085	0.011	1.000	594	0.001329		7.3		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.156	4.144	0.012	1.000	3393	0.002741		6.1		M
D 21 13C8 FOSA										
506.00 > 78.00	4.156	4.144	0.012	1.203	1538648	1.17		93.7	4264	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.223	379483	1.19		95.5	3862	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.237	4.226	0.011	1.003	6631	0.0242		21.9		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.334	4.322	0.012	1.152	685	0.001215	Target=2.45	8.8		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.358	4.346	0.012	1.261	1760304	1.26		101	6171	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.358	4.346	0.012	1.000	3710	0.002413	Target=10.33	1.0		M
563.00 > 169.00	4.358	4.346	0.012	1.000	356		10.42(5.17-15.50)	4.3		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.370	4.358	0.012	1.000	8942	0.0318		42.0		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.370	4.358	0.012	1.265	378255	1.24		99.1	759	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.183	3031	0.000901		7.6		
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.594	4.584	0.010	1.000	3702	0.002673	Target=8.10	0.5		
613.00 > 169.00	4.594	4.584	0.010	1.000	498		7.43(4.05-12.15)	5.2		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.594	4.584	0.010	1.330	1700099	1.22		97.2	5762	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.124	382	0.001351		9.0		
75 Perfluorododecanesulfonic acid (M
699.00 > 80.00	4.780	4.770	0.010	1.270	259	0.001131	Target=0.51	6.5		M
699.00 > 99.00	4.770	4.770	0.0	1.267	425		0.61(0.26-0.77)	13.1		M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.047	3735	0.002701	Target=6.06	0.4		
663.00 > 169.00	4.808	4.799	0.009	1.047	651		5.74(3.03-9.09)	6.5		
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.008	4.998	0.010	1.000	481	0.003205	Target=0.83	10.4		
713.00 > 219.00	4.998	4.998	0.0	0.998	394		1.22(0.42-1.25)	7.9		
D 43 13C2 PFTeDA										
715.00 > 670.00	5.008	4.998	0.010	1.450	1502305	1.25		99.9	5832	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.362	5.362	0.0	1.000	23587	0.002153	Target=6.74	3.4		
813.00 > 169.00	5.362	5.362	0.0	1.000	3628		6.50(3.37-10.11)	48.7		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.362	5.362	0.0	1.552	1801536	1.22		97.8	6208	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.711	0.009	1.067	10028	0.008603	Target=6.99	1.7		
913.00 > 169.00	5.720	5.711	0.009	1.067	1313		7.64(3.50-10.49)	23.1		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d

Injection Date: 11-Jan-2023 18:32:02

Instrument ID: LC812

Lims ID: ICB

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

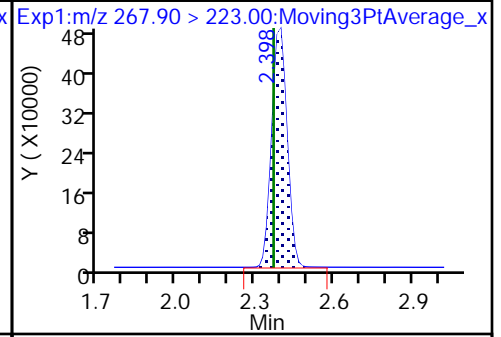
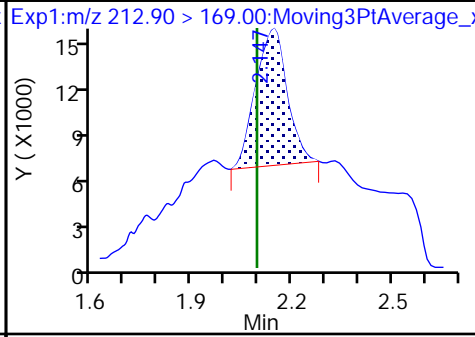
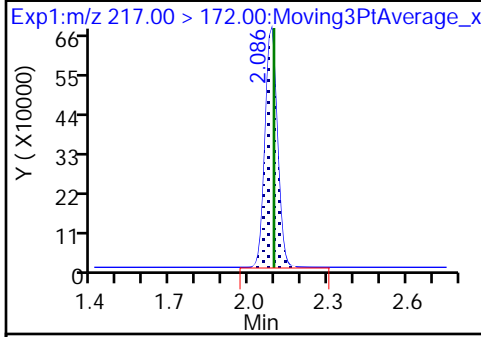
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

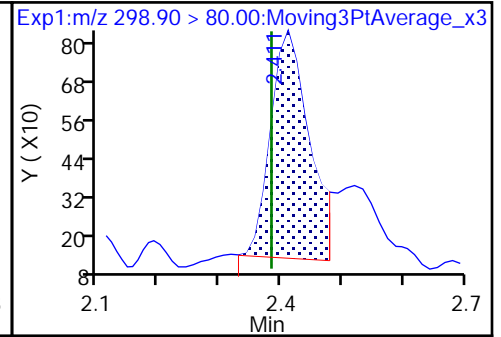
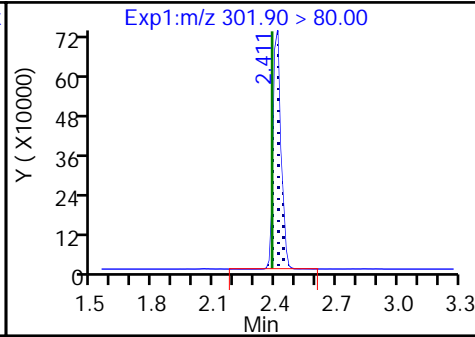
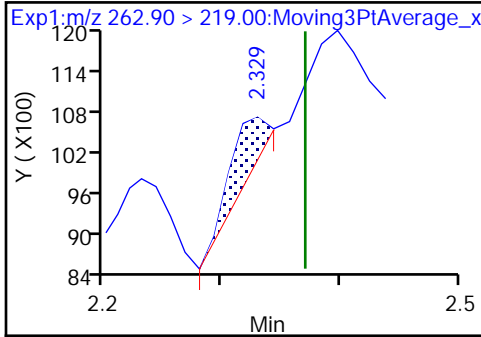
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

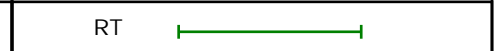
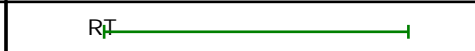
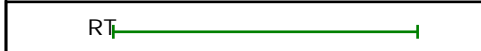
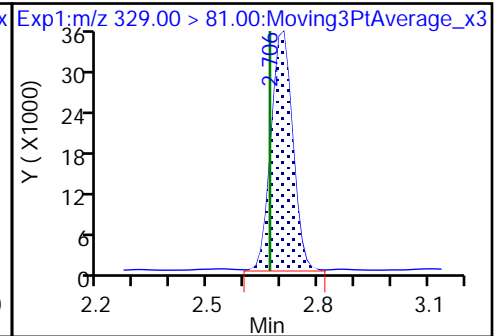
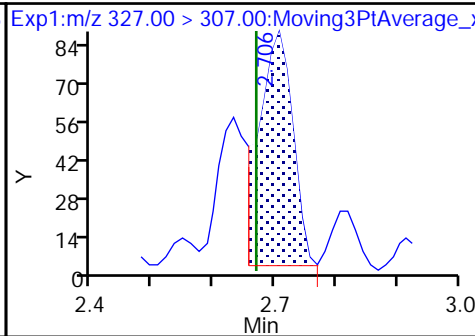
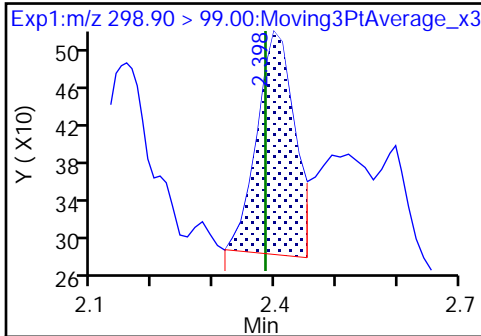
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonate (M)

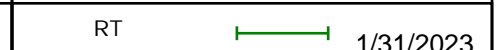
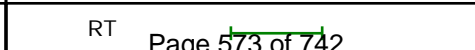
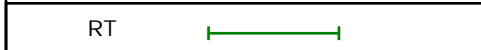
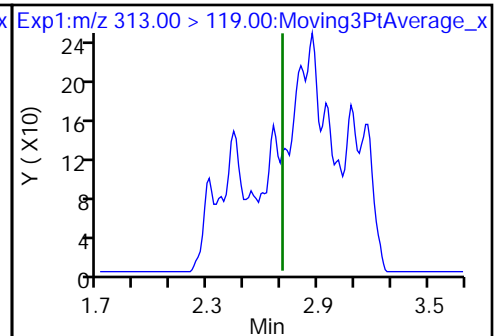
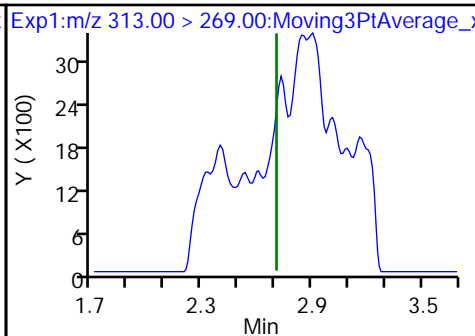
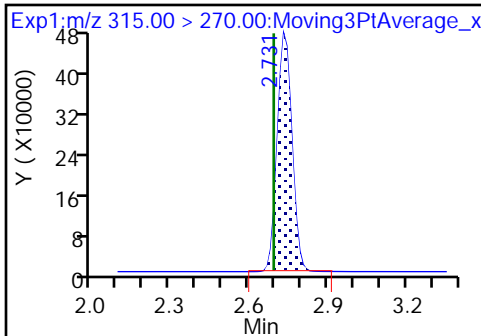
60 M2-4:2 FTS



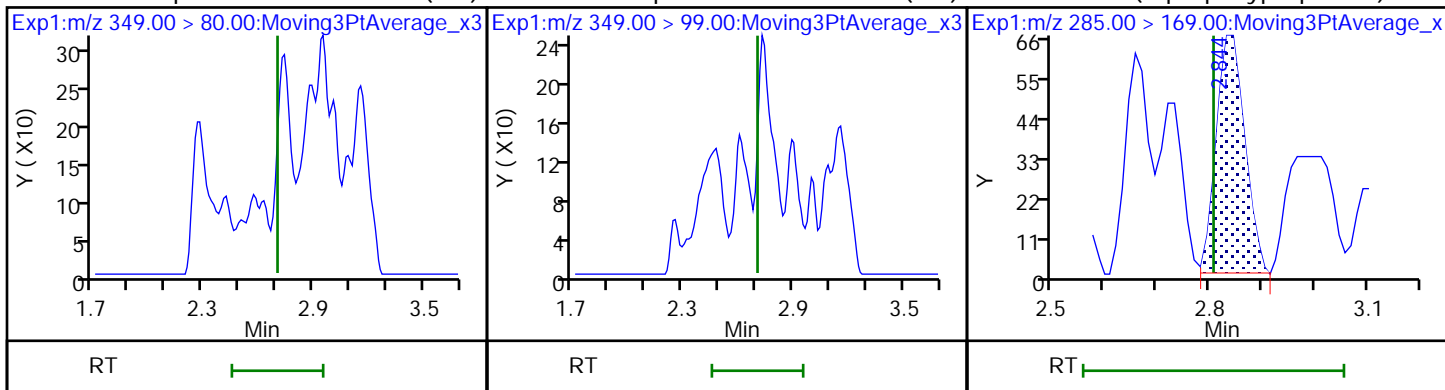
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



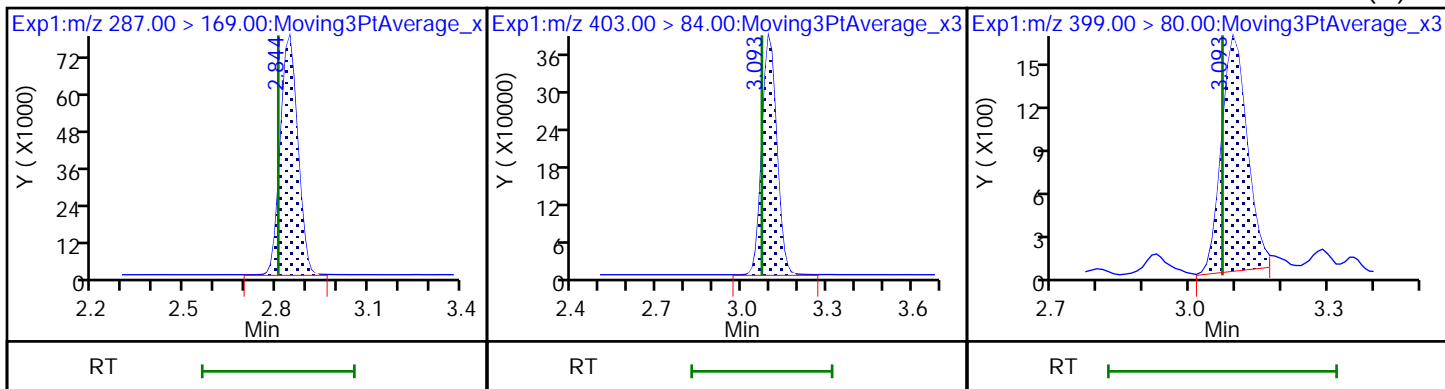
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

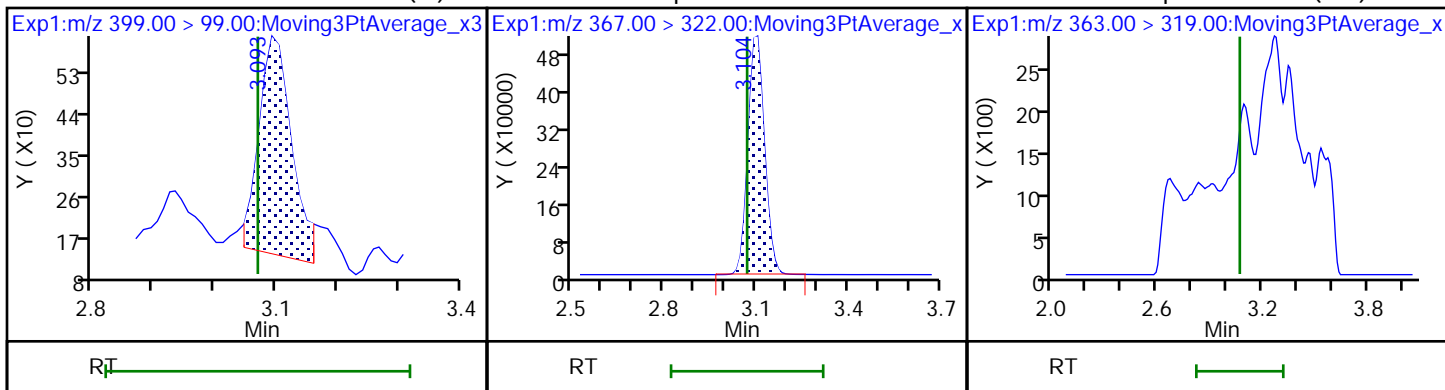
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

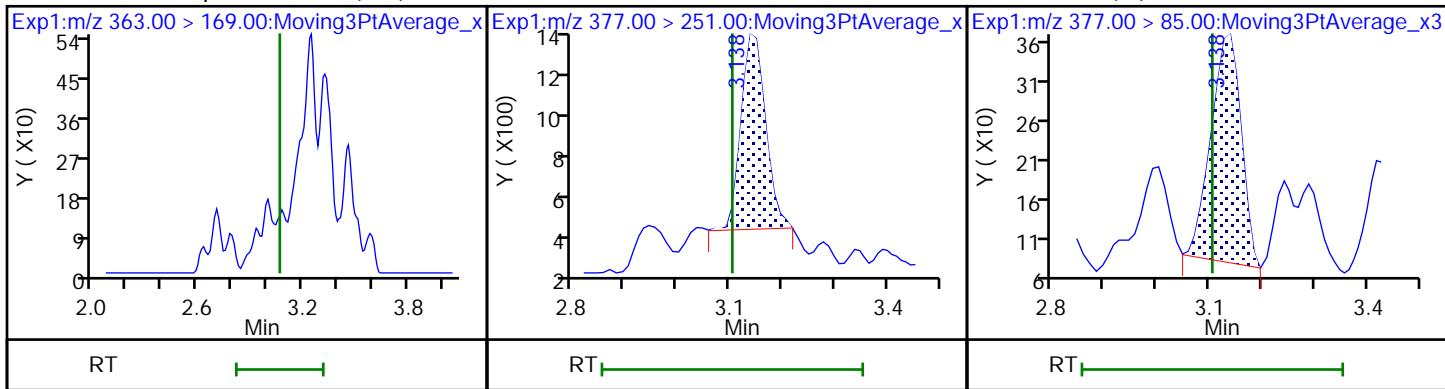
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

77 DONA

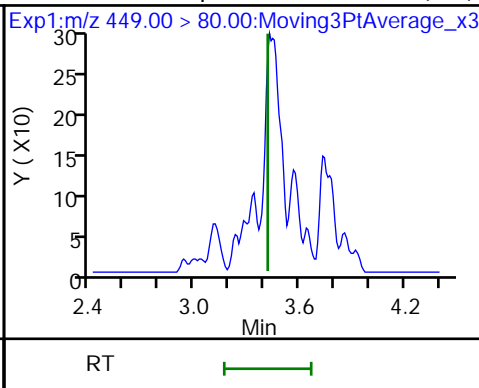
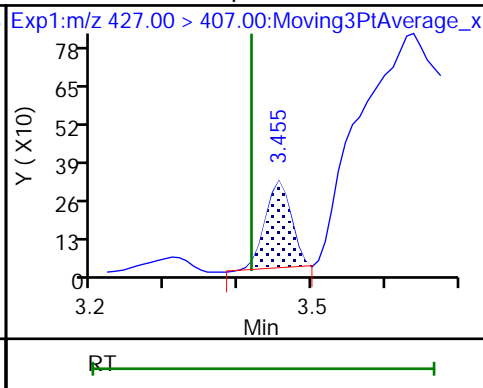
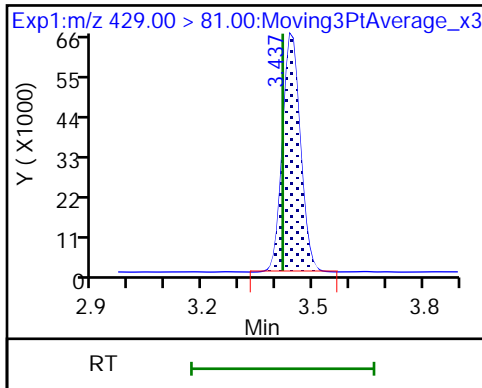
77 DONA (M)



D 12 M2-6:2 FTS

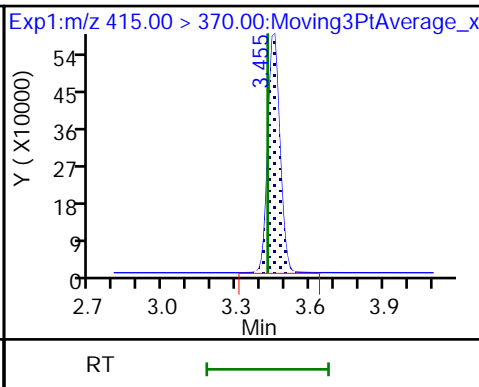
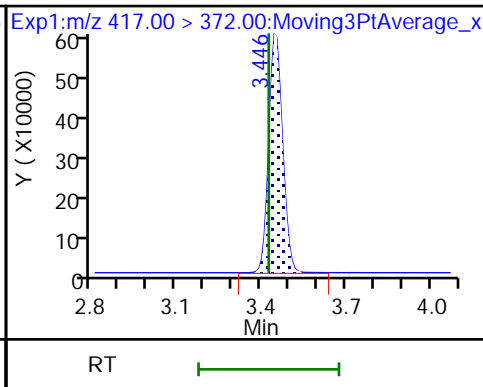
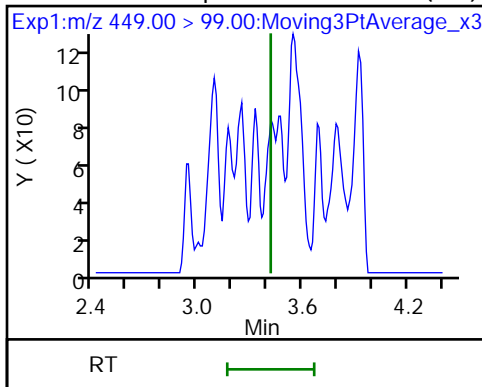
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

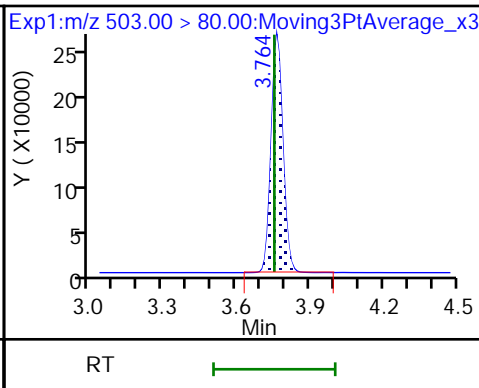
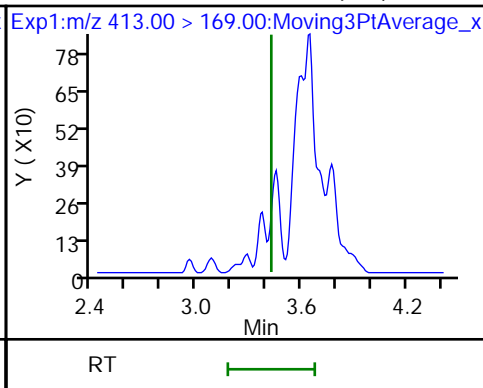
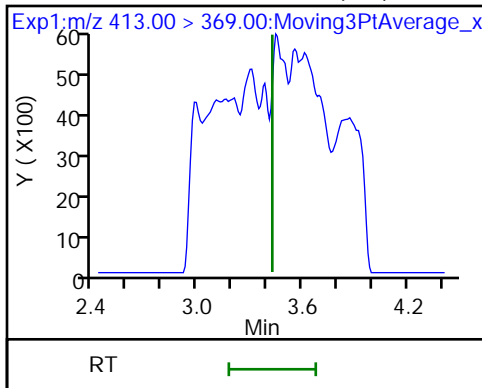
* 62 13C2 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

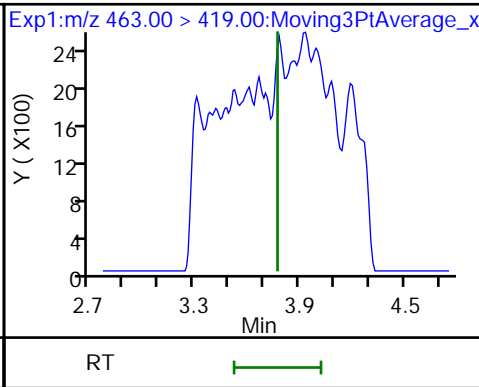
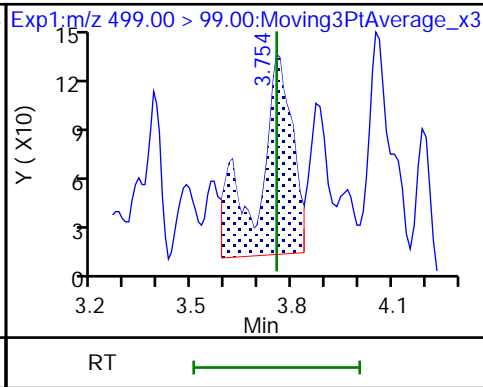
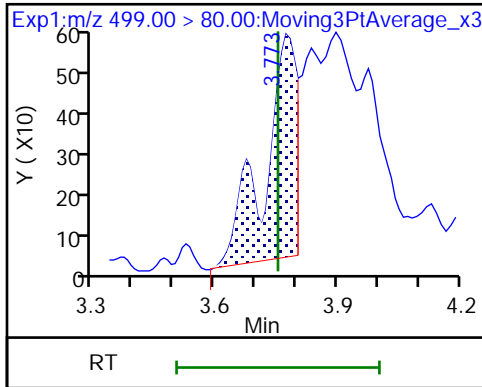
D 18 13C4 PFOS

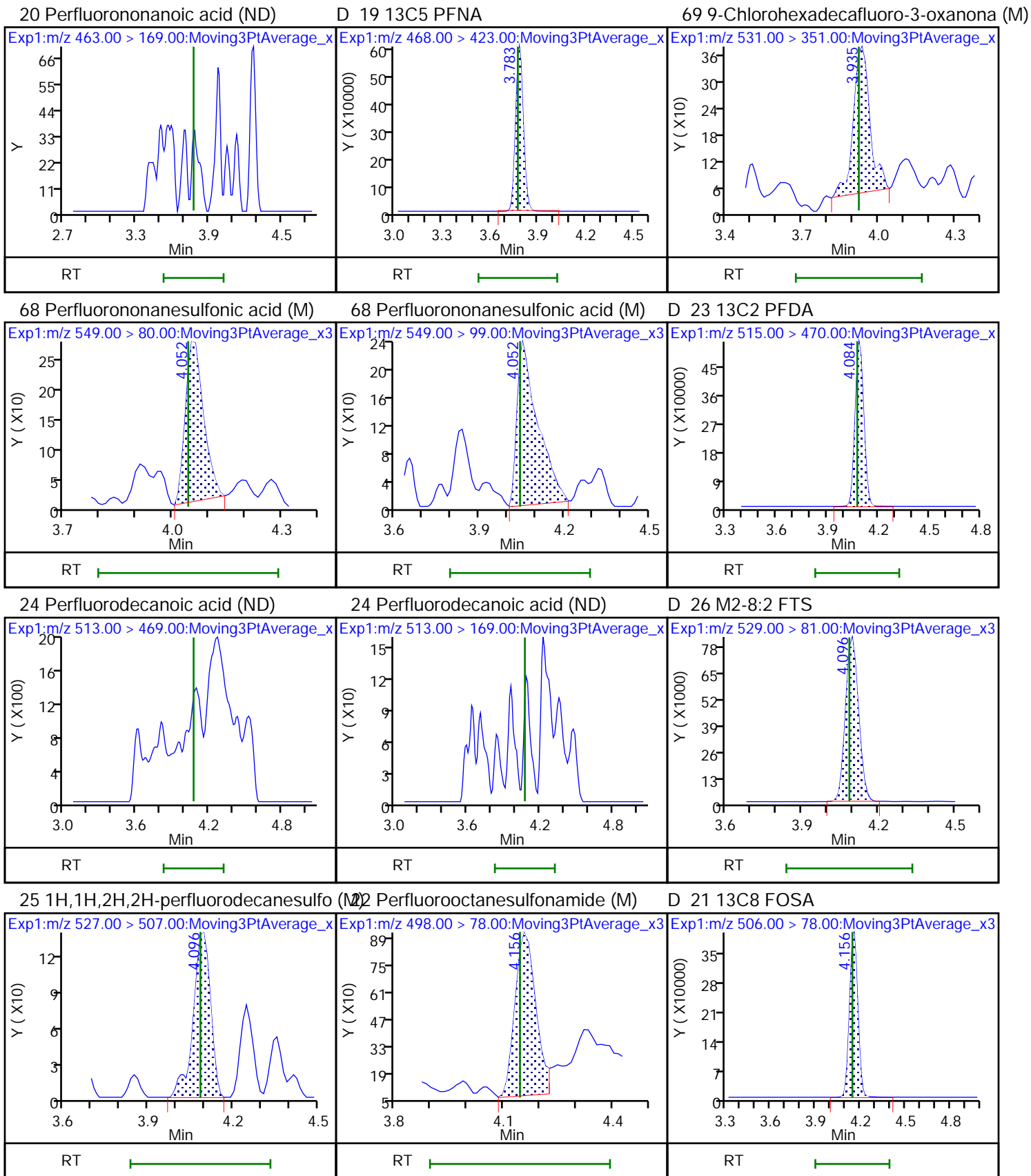


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

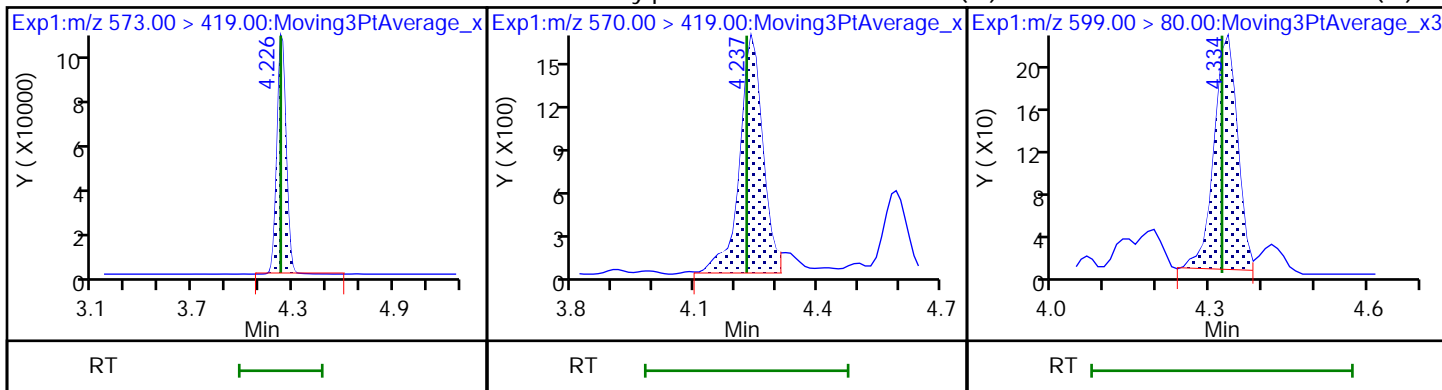
20 Perfluorononanoic acid (ND)





D 27 d3-NMeFOSAA

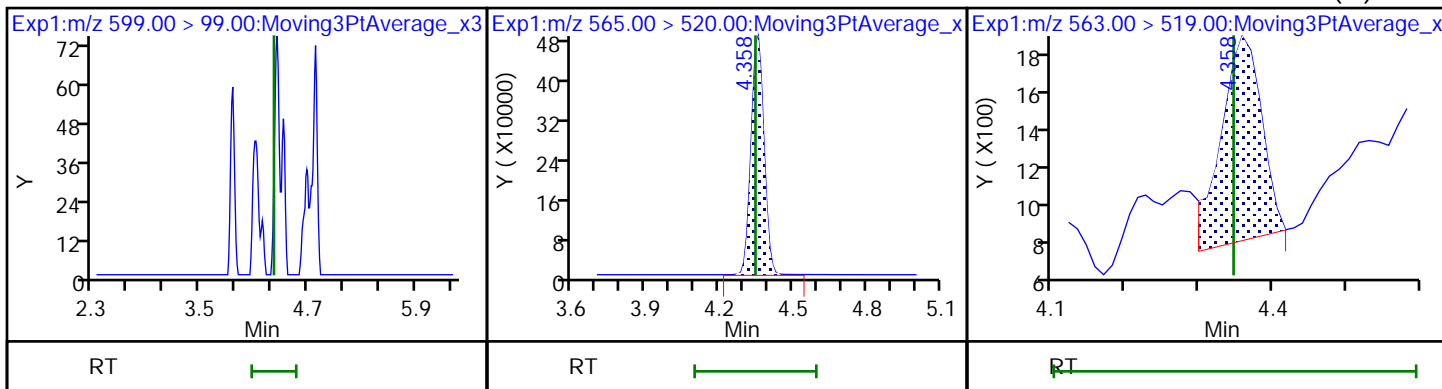
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid

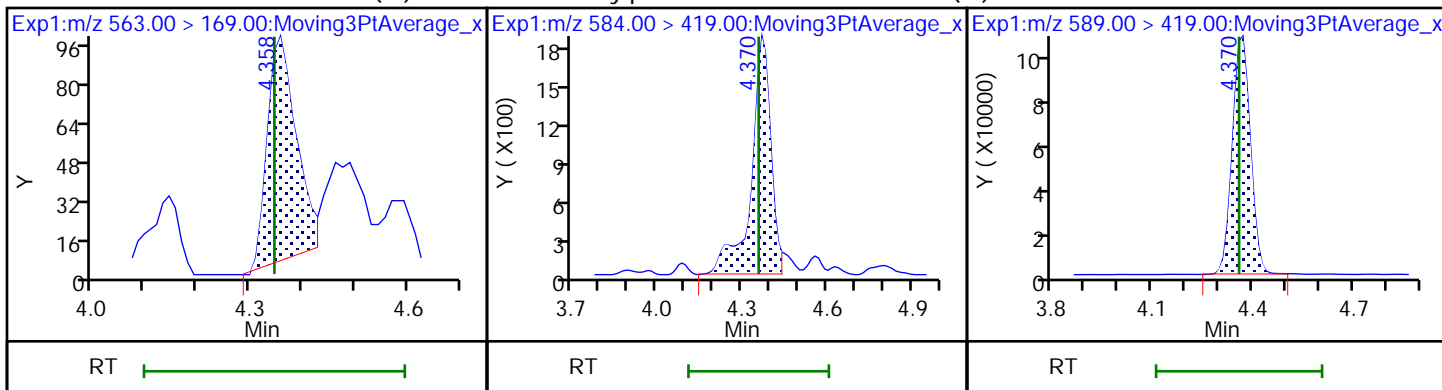
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

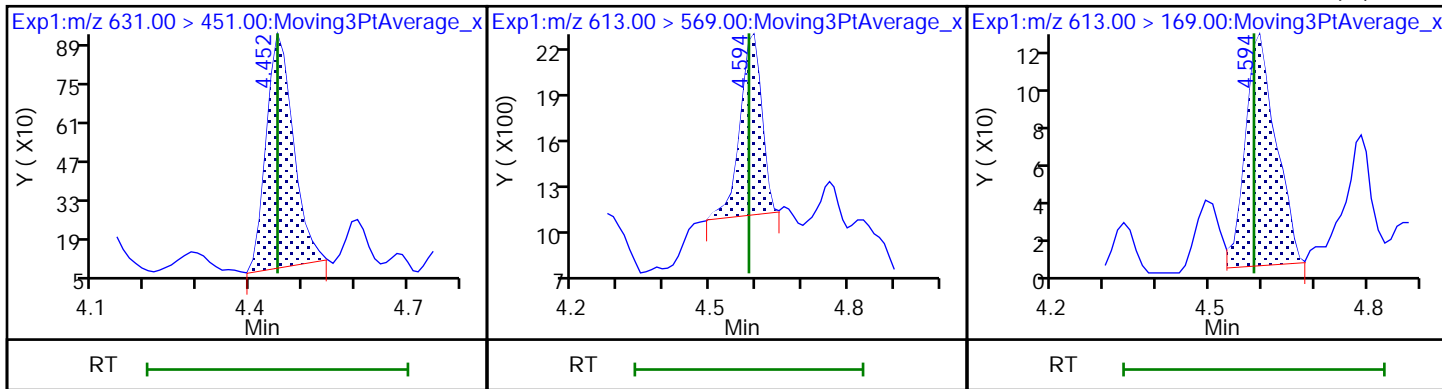
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

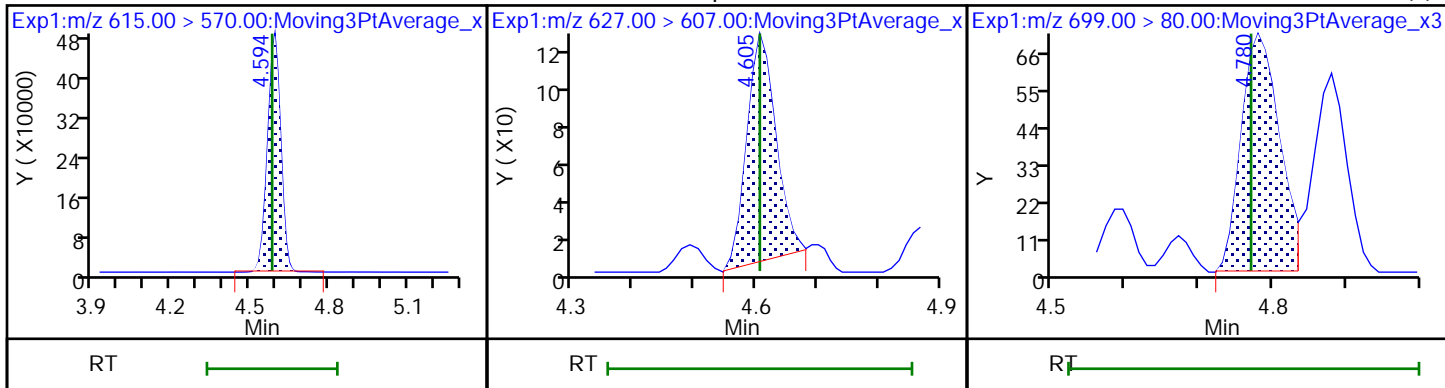
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

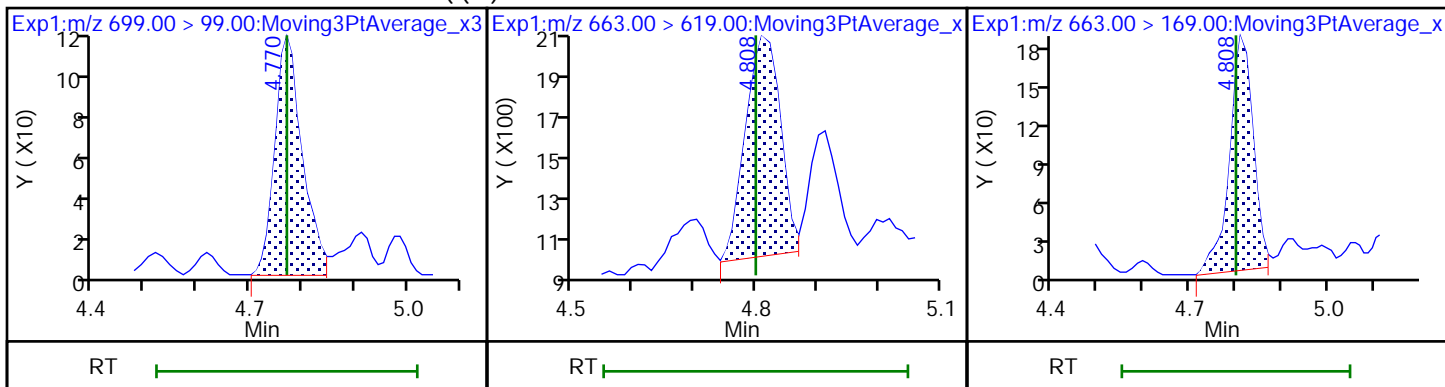
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid

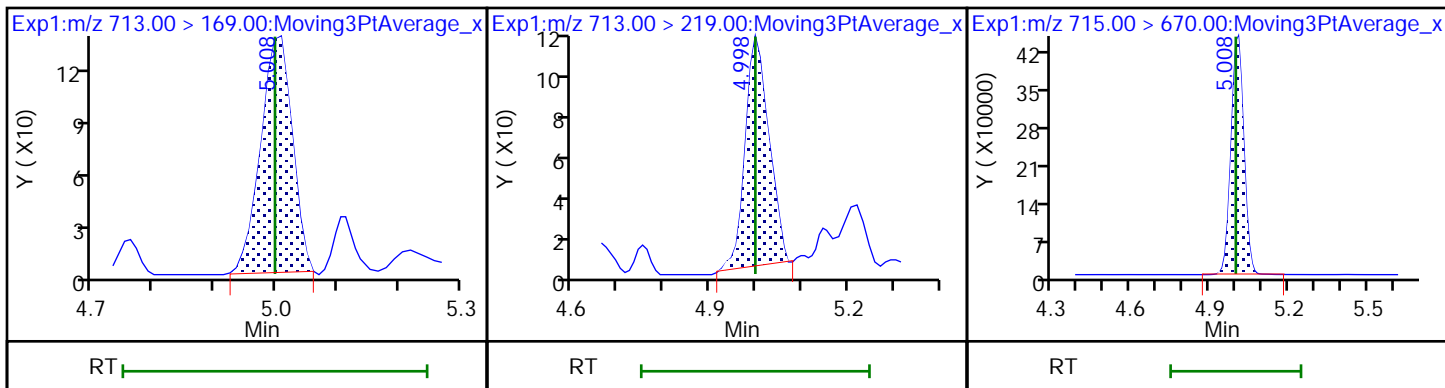
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

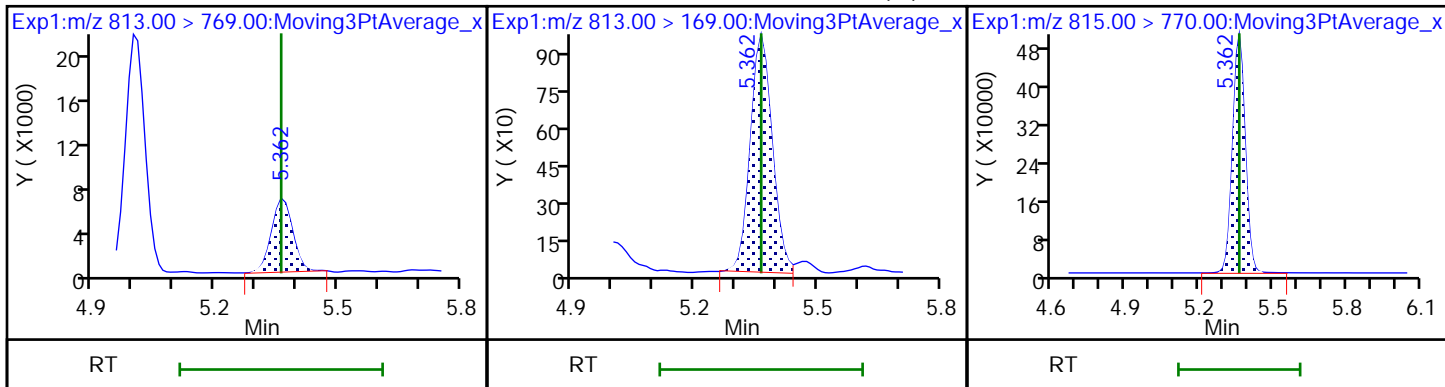
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

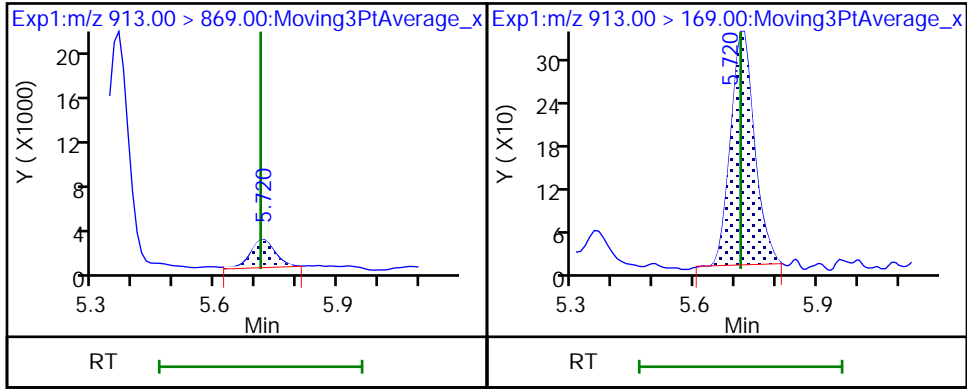
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

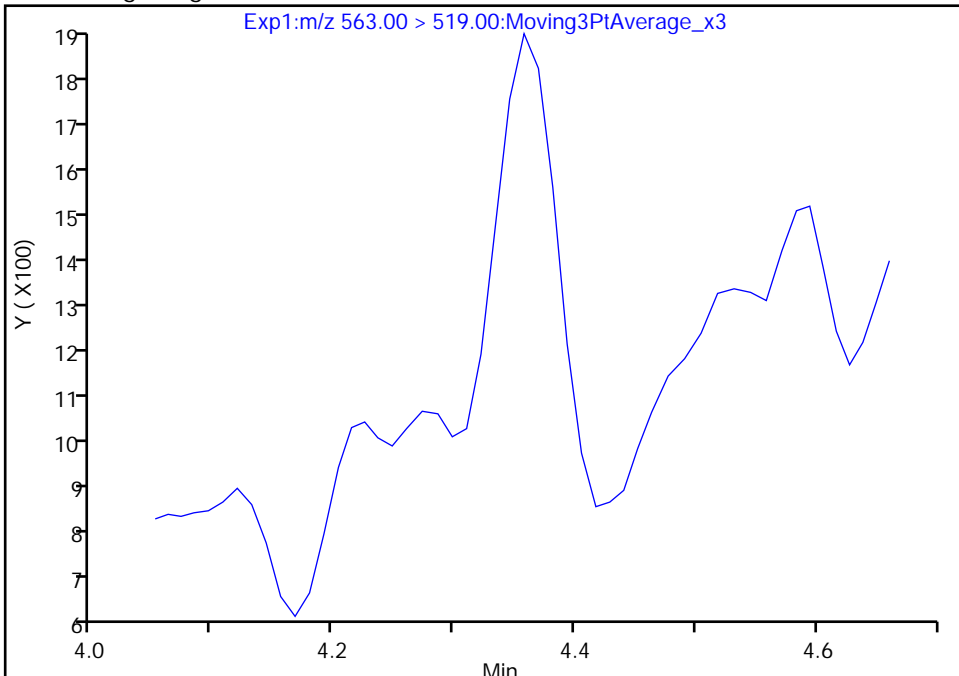
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

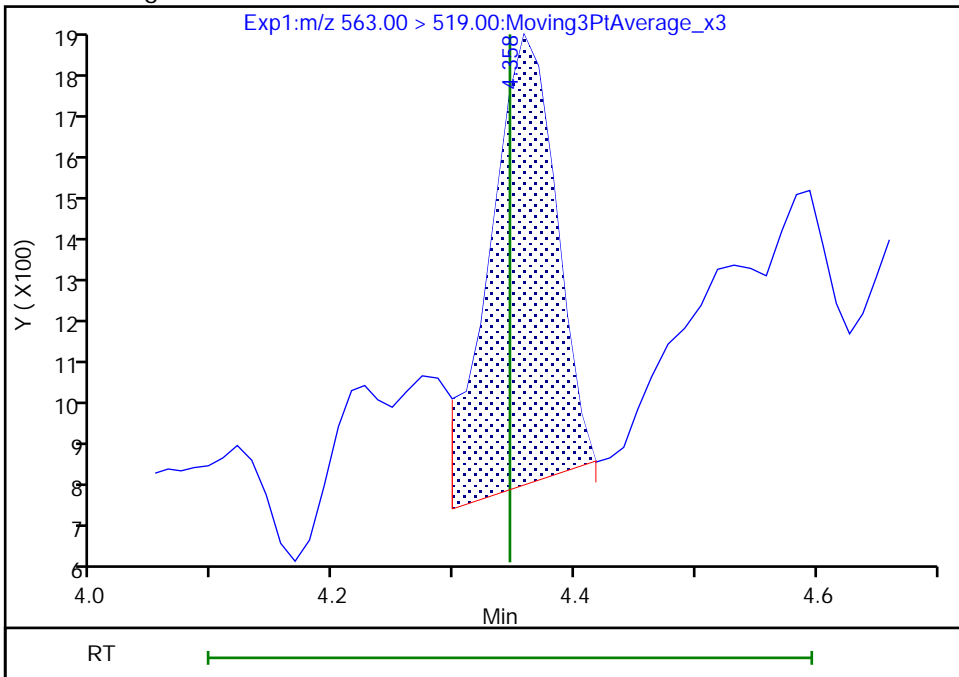
Not Detected
Expected RT: 4.35

Processing Integration Results



RT: 4.36
Area: 3710
Amount: 0.002413
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:24:43
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

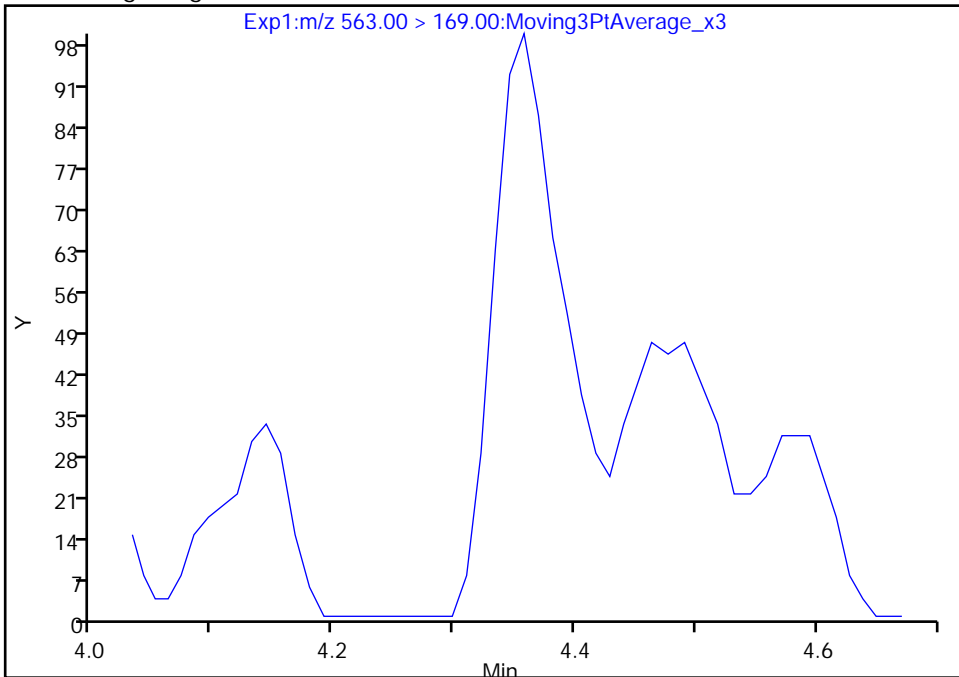
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

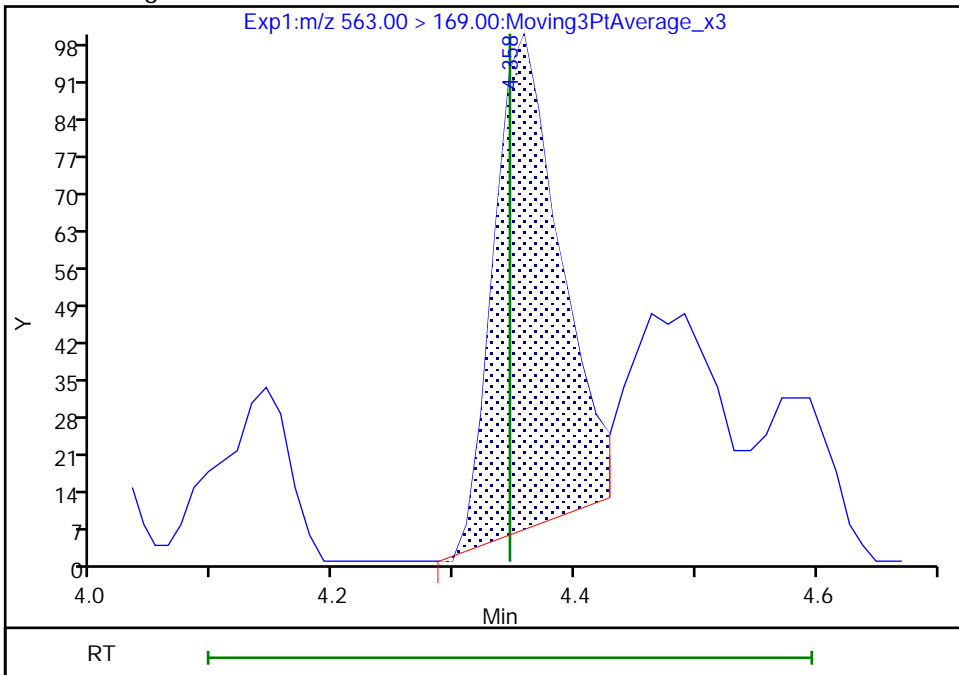
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 356
Amount: 0.002413
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:24:46

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

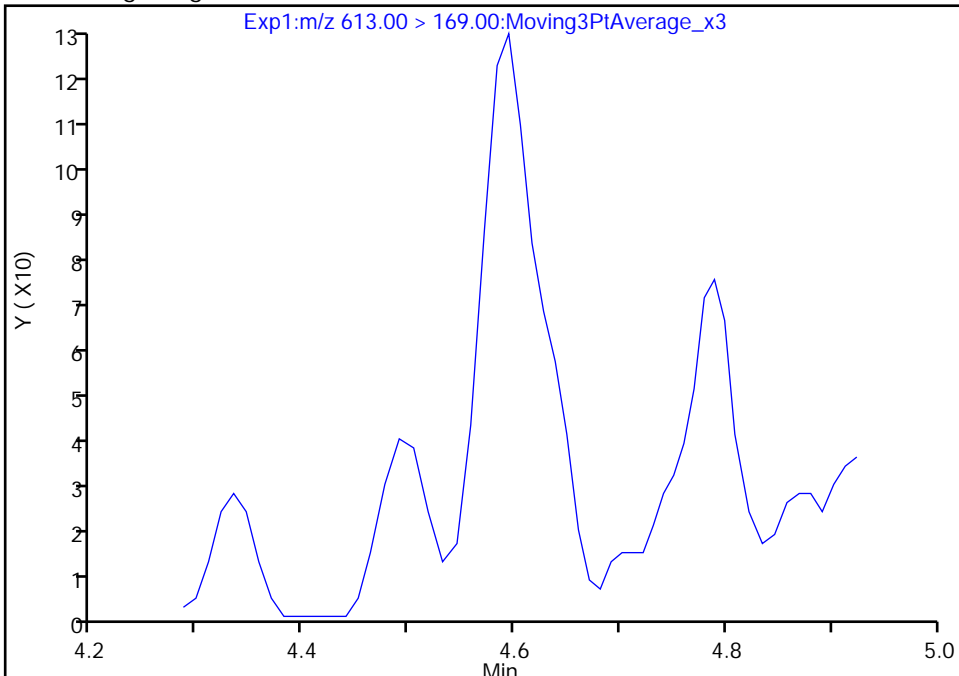
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

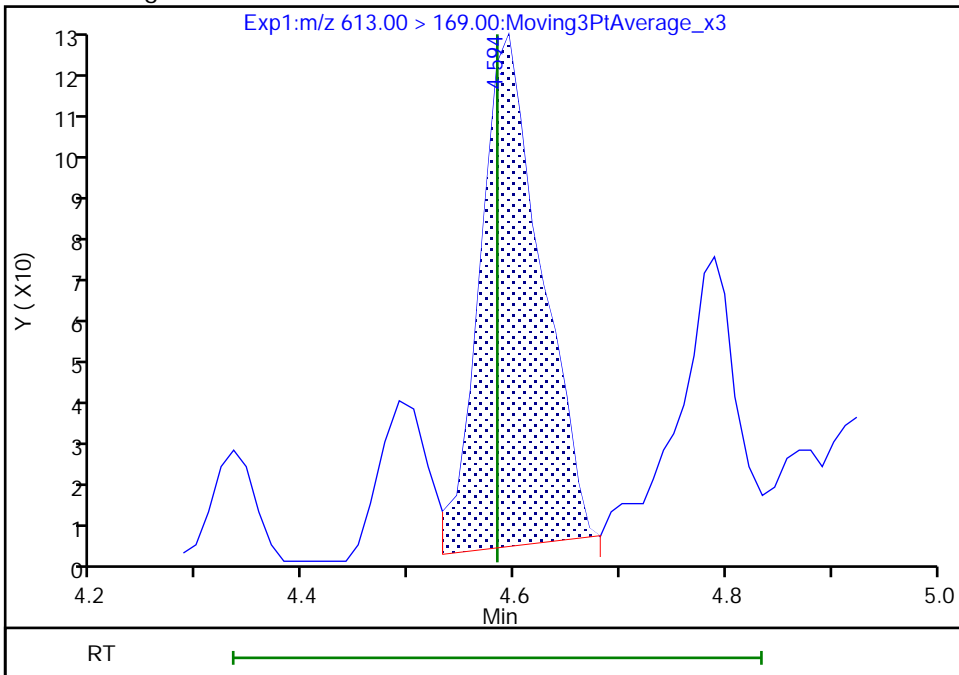
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 498
Amount: 0.002673
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:25:16
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

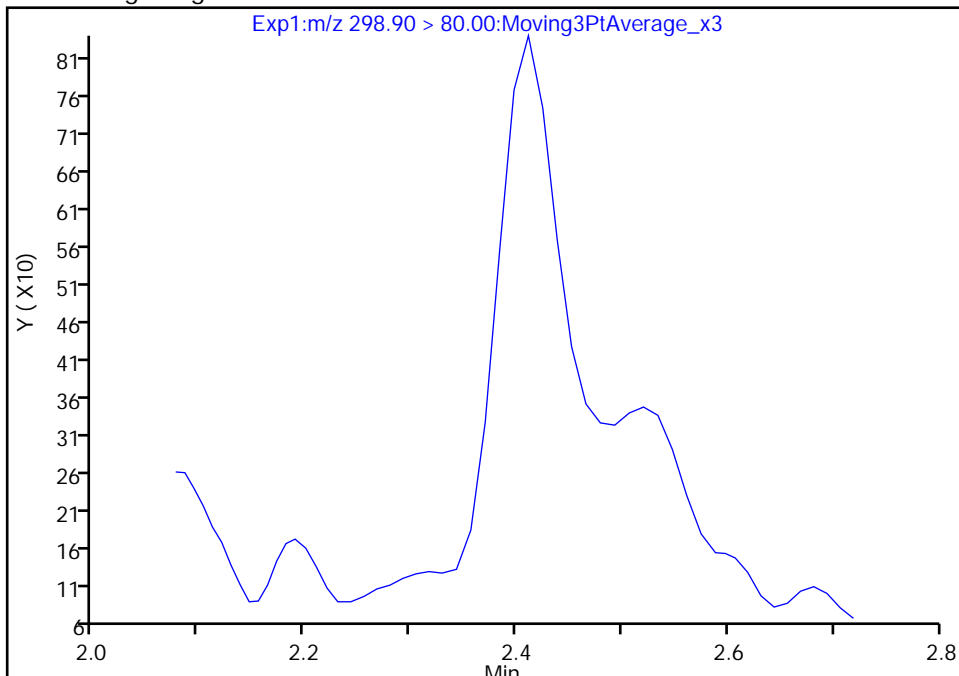
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

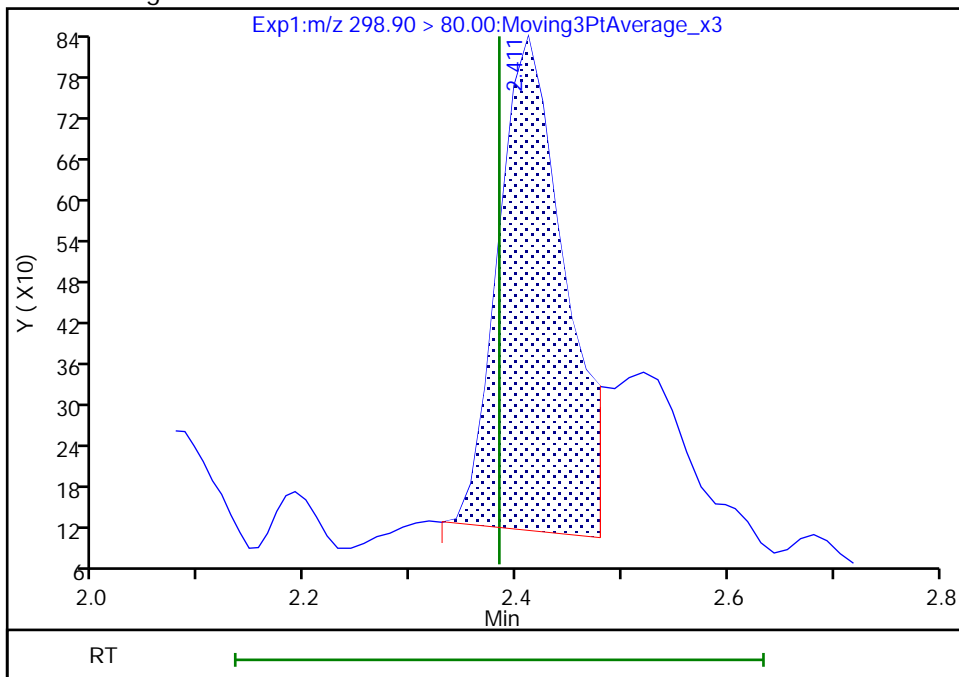
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 3136
Amount: 0.001795
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:21:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

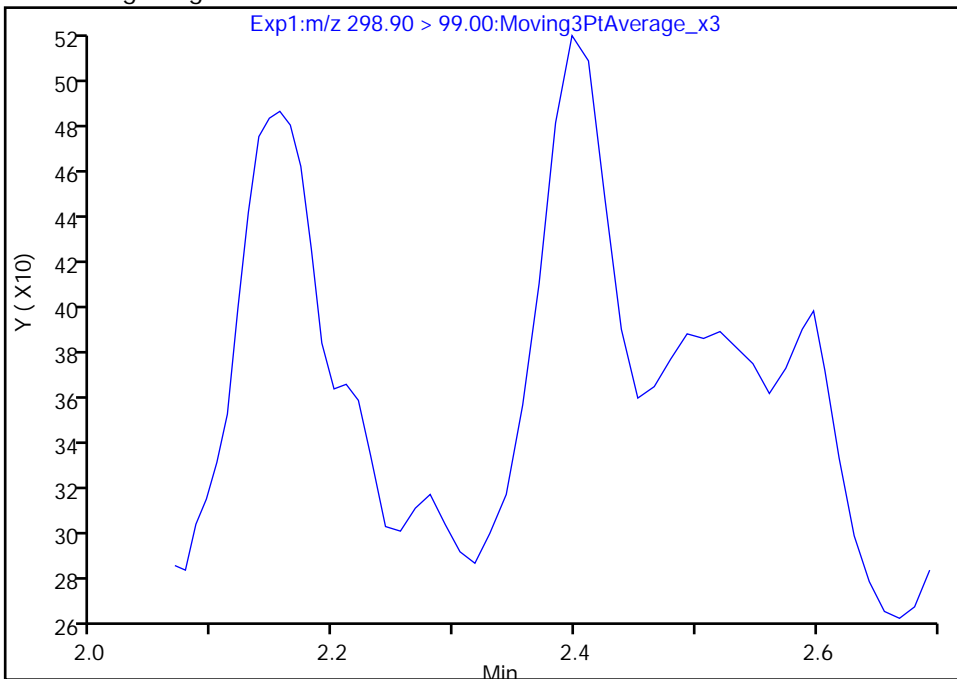
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

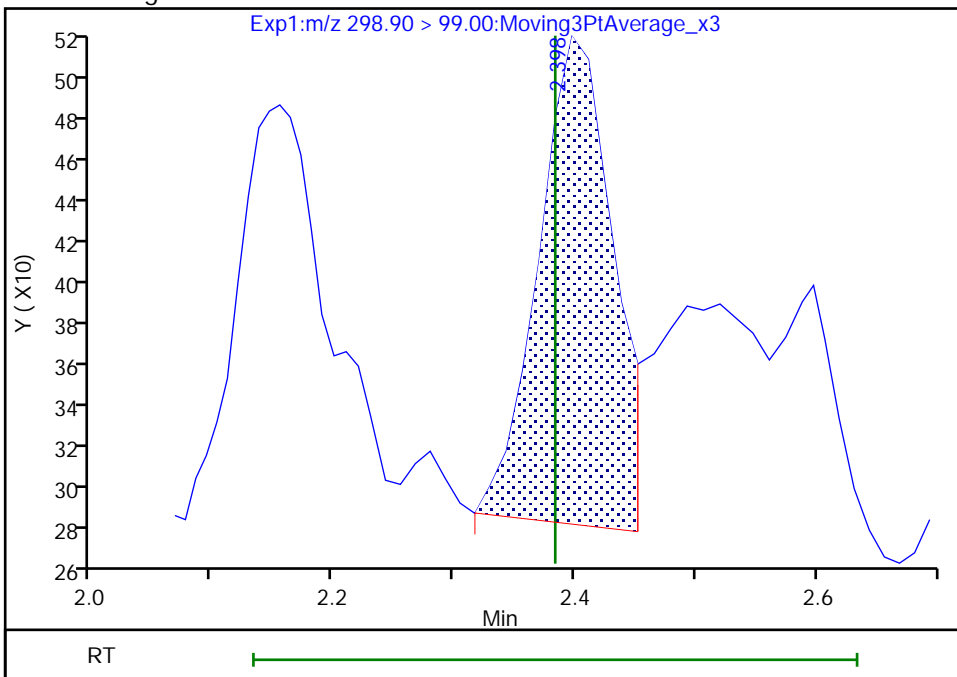
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 993
Amount: 0.001795
Amount Units: ng/ml



Eurofins Burlington

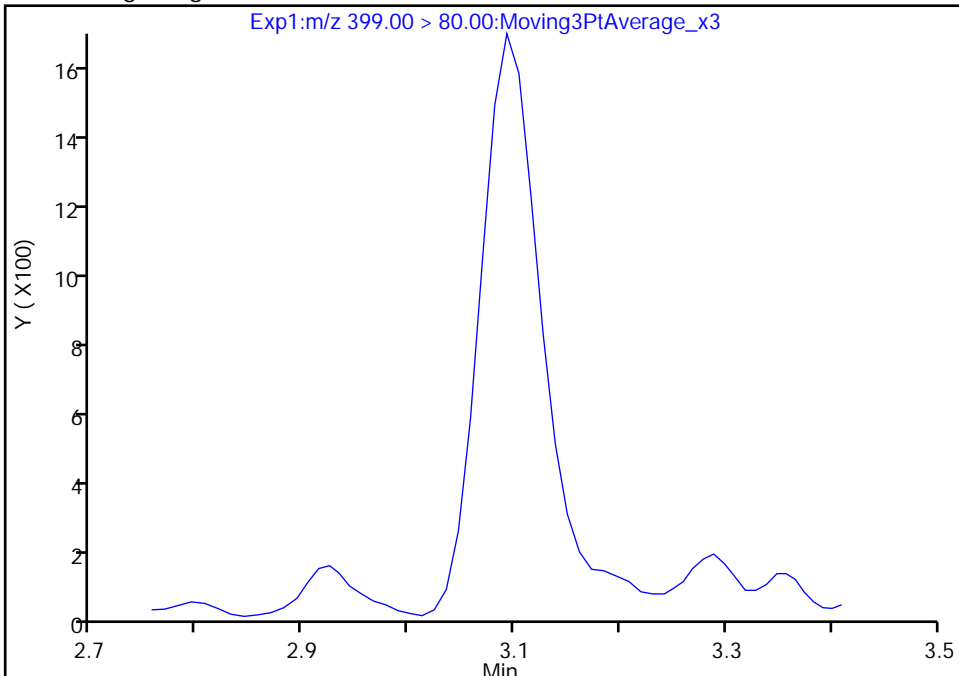
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

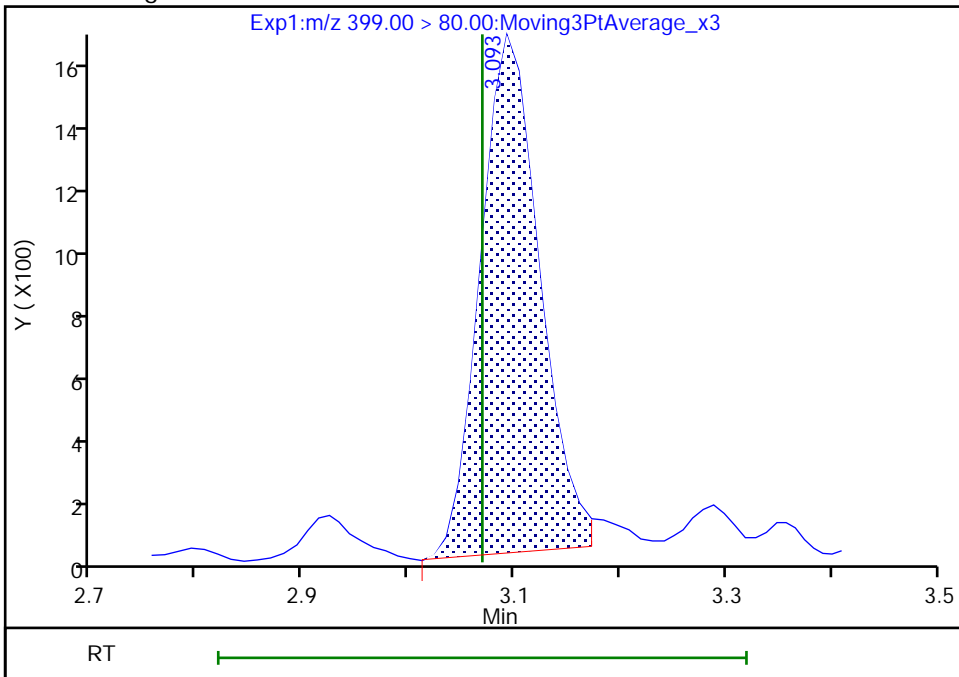
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 6190
Amount: 0.004751
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:21:55
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

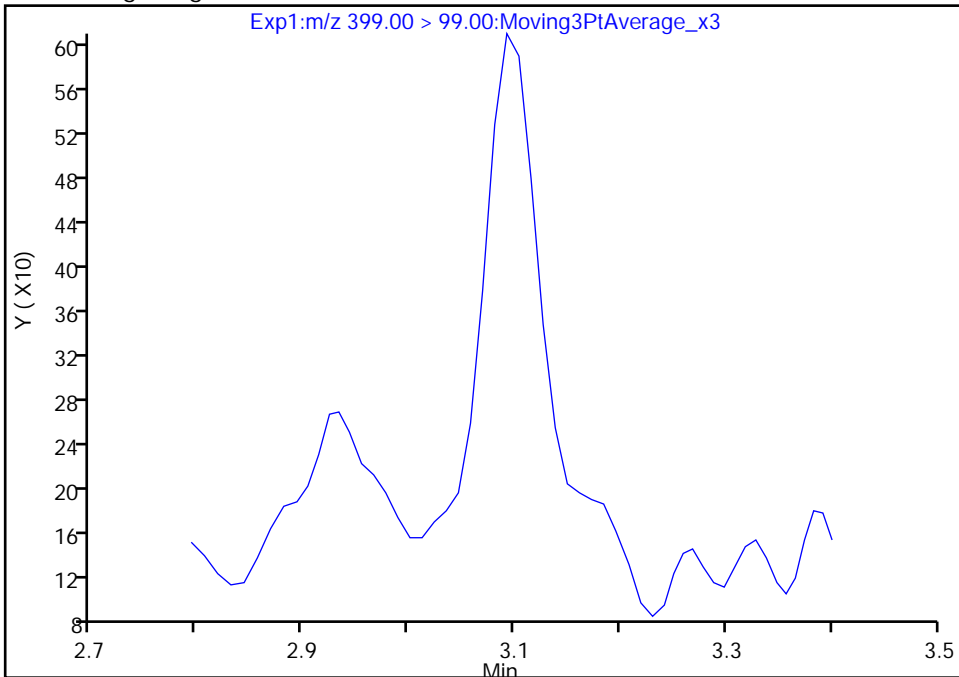
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

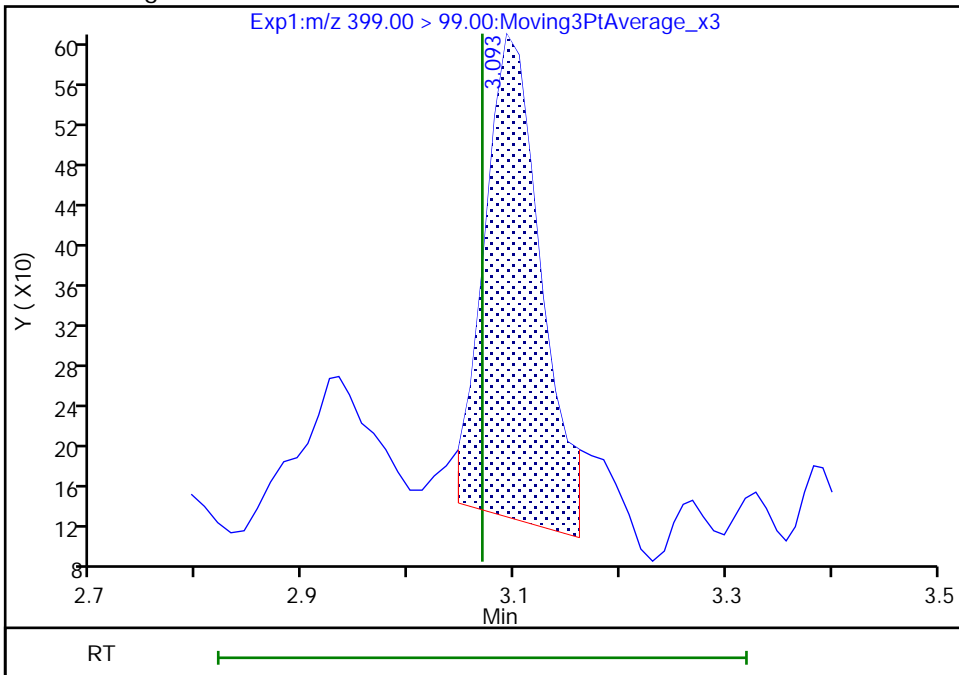
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 1759
Amount: 0.004751
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:21:59

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

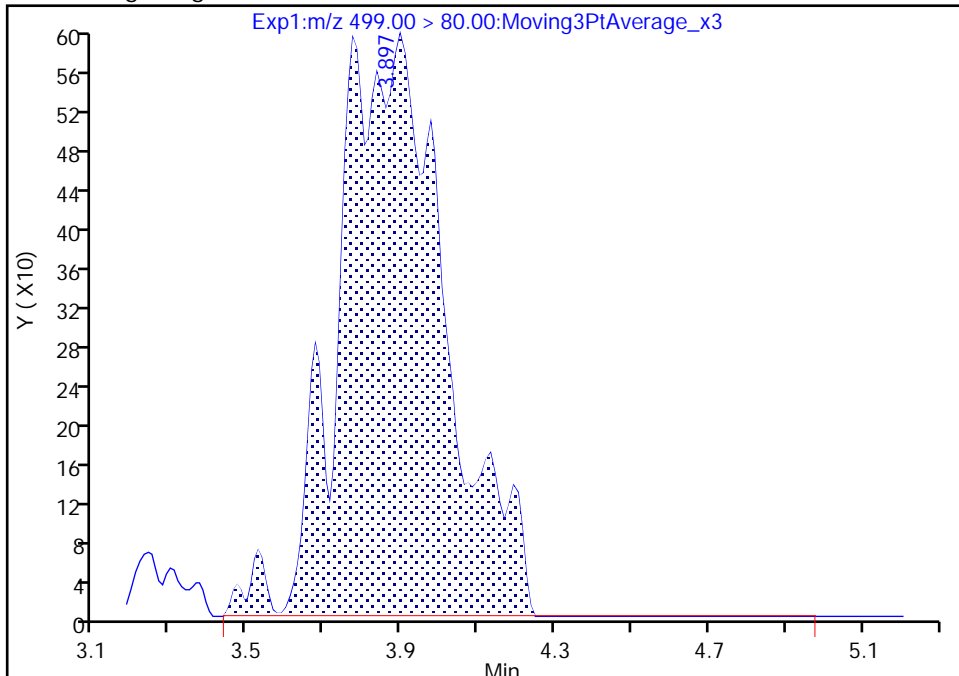
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Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

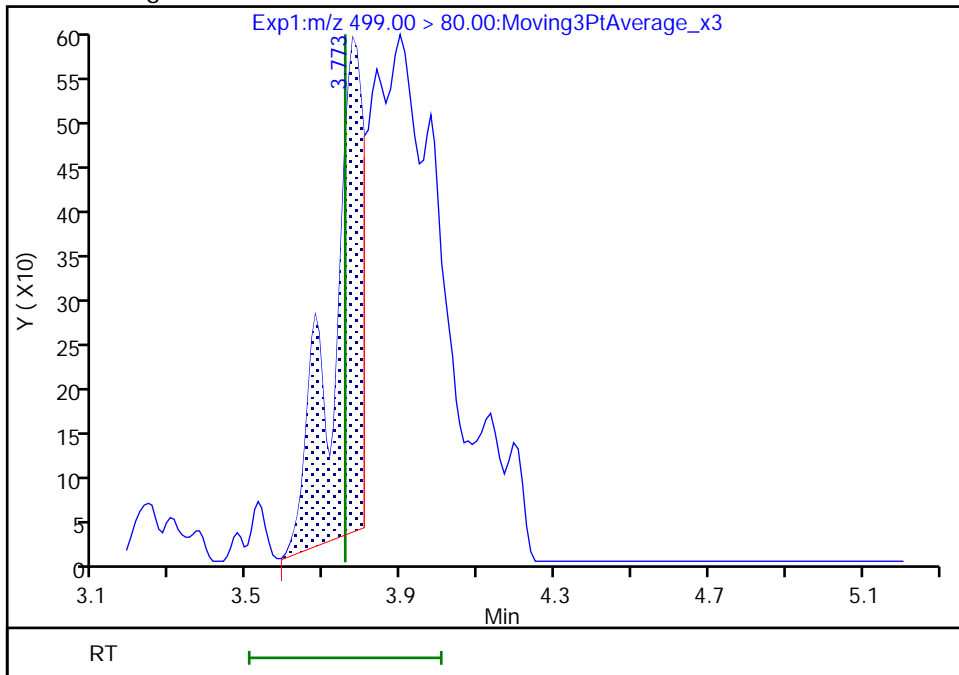
RT: 3.90
Area: 11600
Amount: 0.012736
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 2928
Amount: 0.003215
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:22:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 587 of 742

Eurofins Burlington

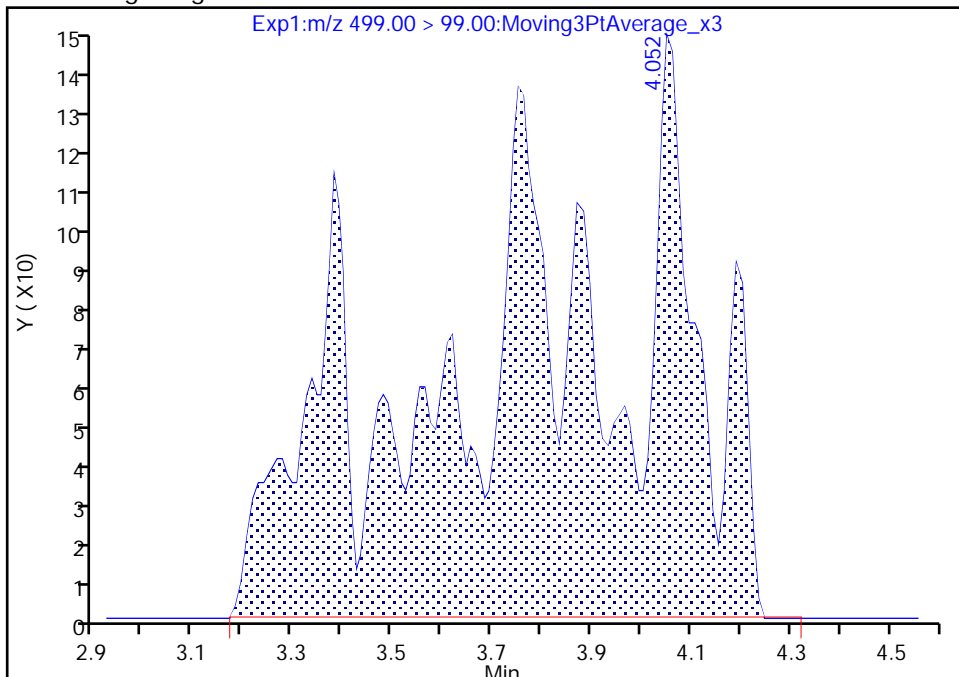
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

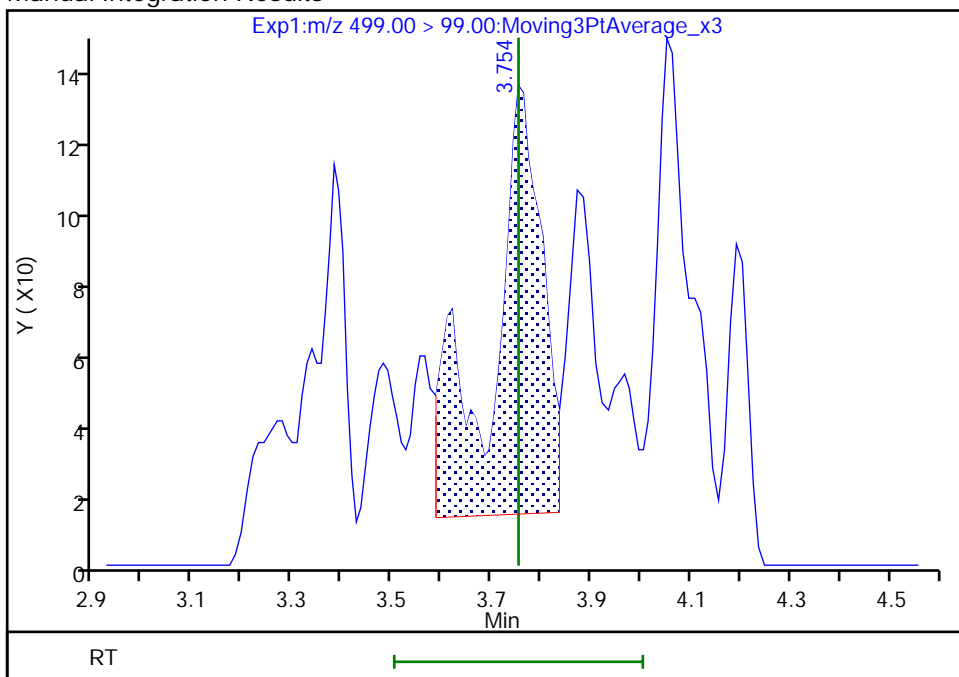
RT: 4.05
Area: 3712
Amount: 0.012736
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 827
Amount: 0.003215
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:22:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

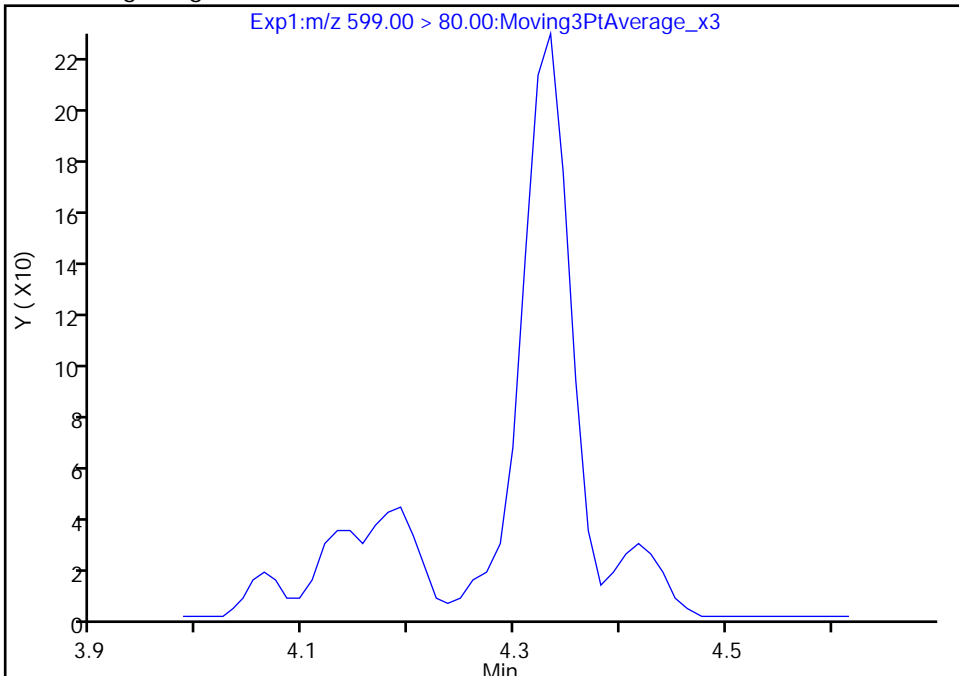
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

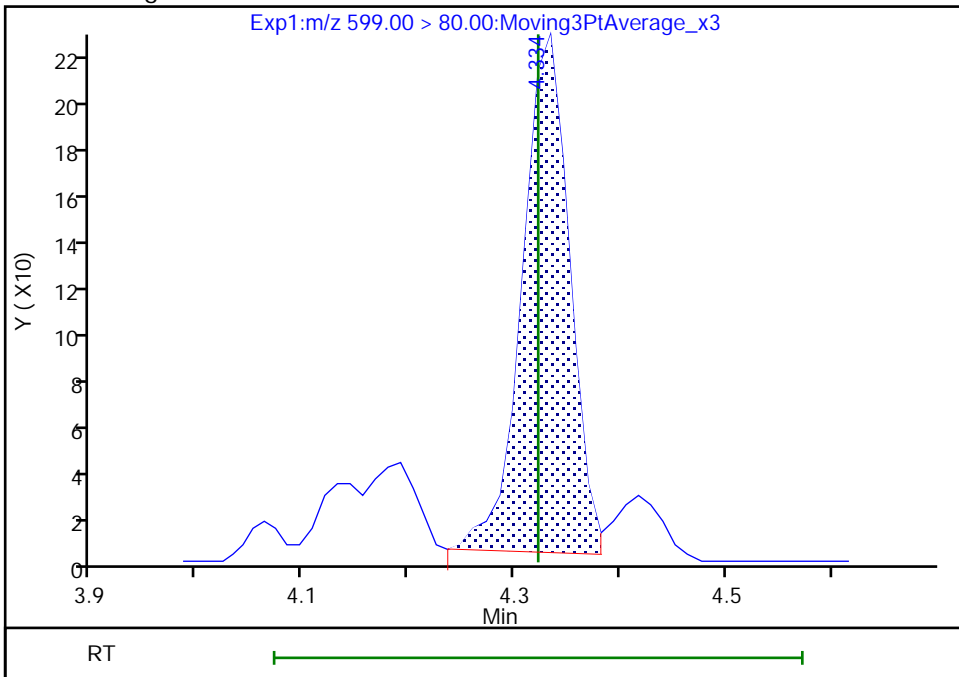
Signal: 1

Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results



RT: 4.33
Area: 685
Amount: 0.001215
Amount Units: ng/ml

Reviewer: SJ4N, 13-Jan-2023 13:24:19
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

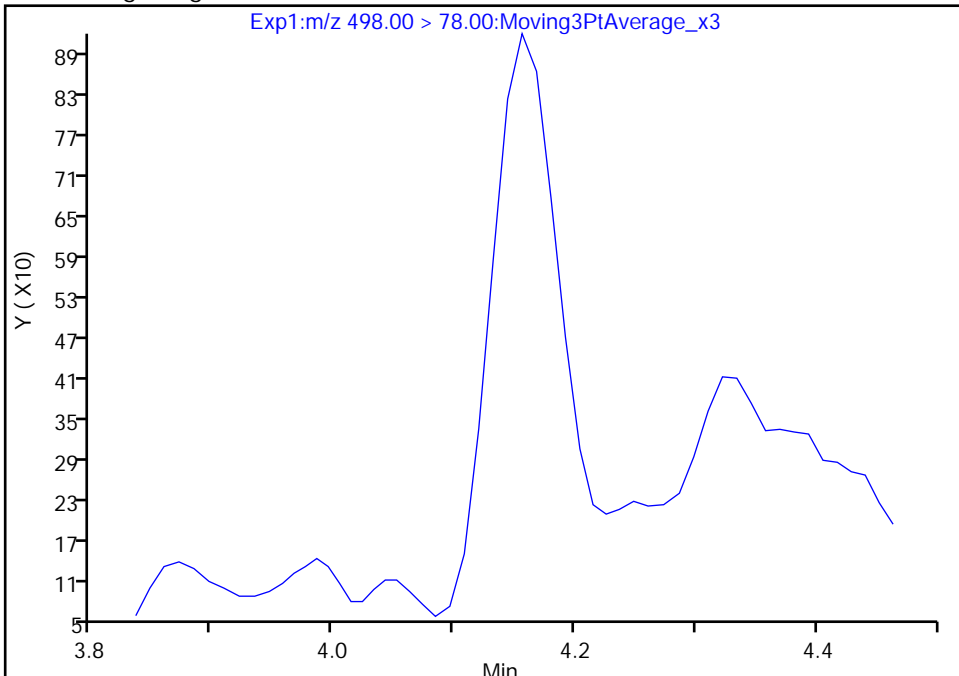
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

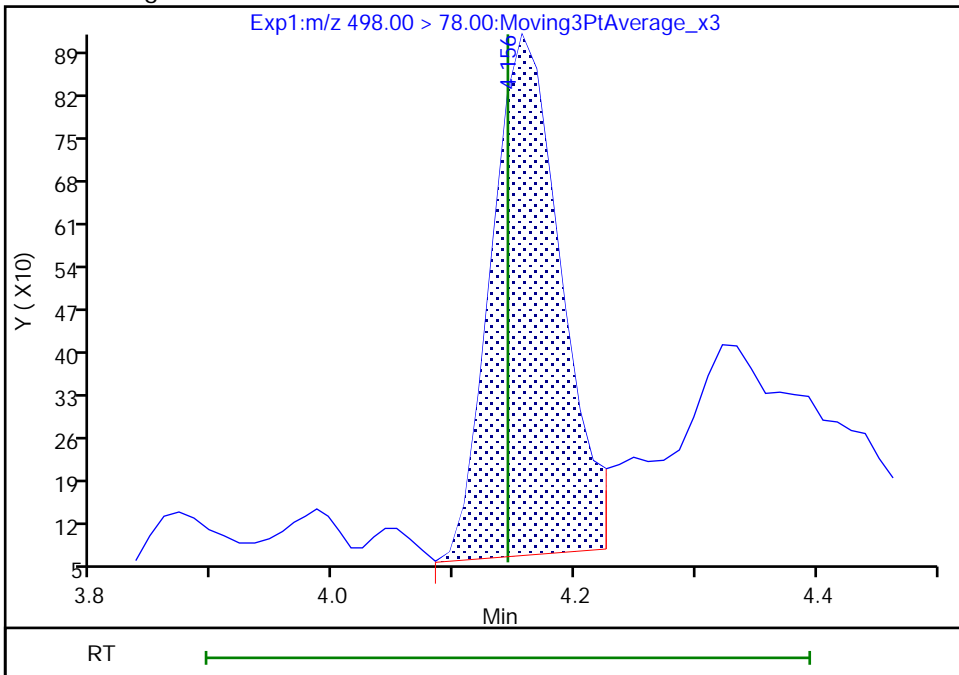
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 3393
Amount: 0.002741
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:23:53
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

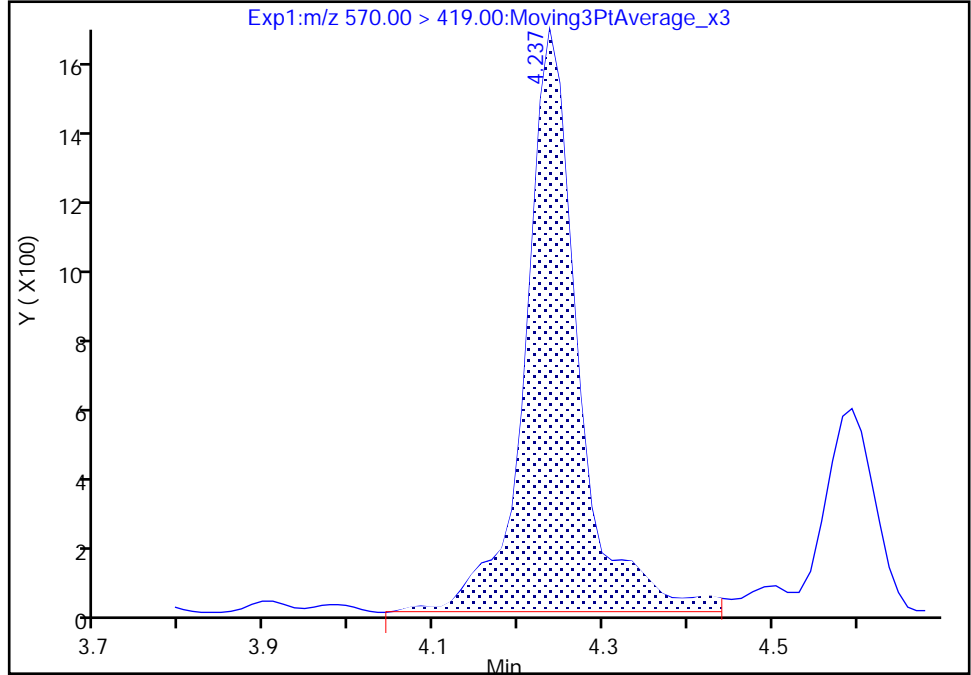
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

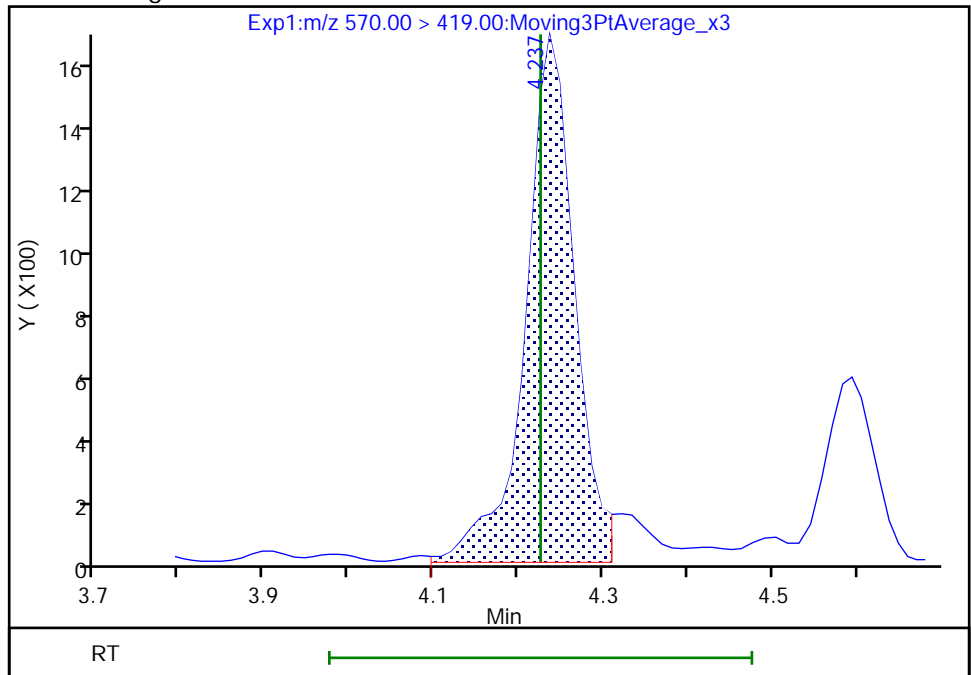
RT: 4.24
Area: 7272
Amount: 0.026567
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 6631
Amount: 0.024225
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:24:05
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

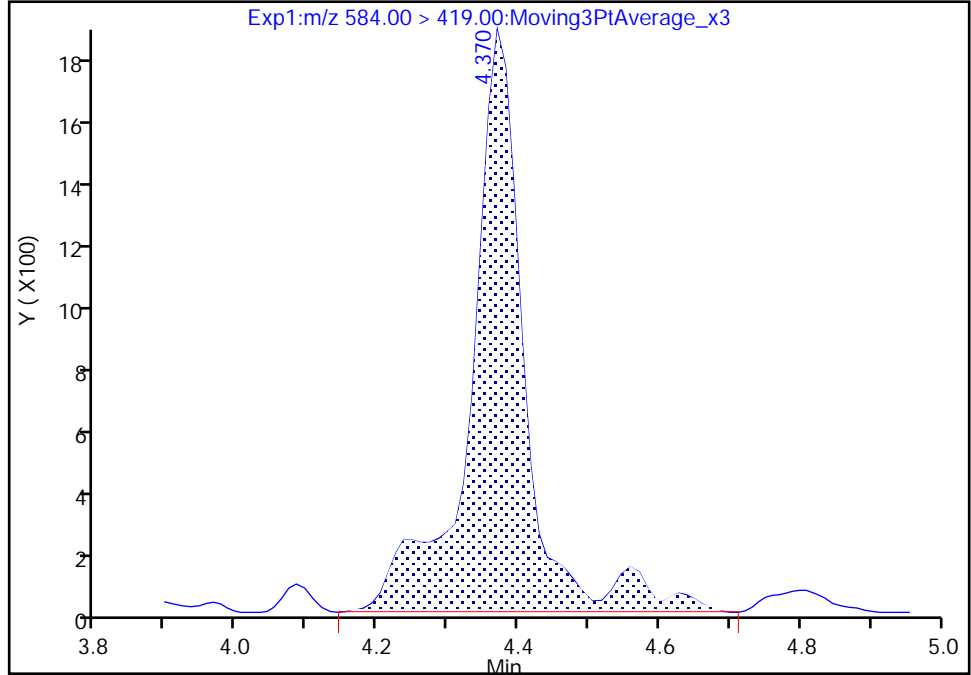
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

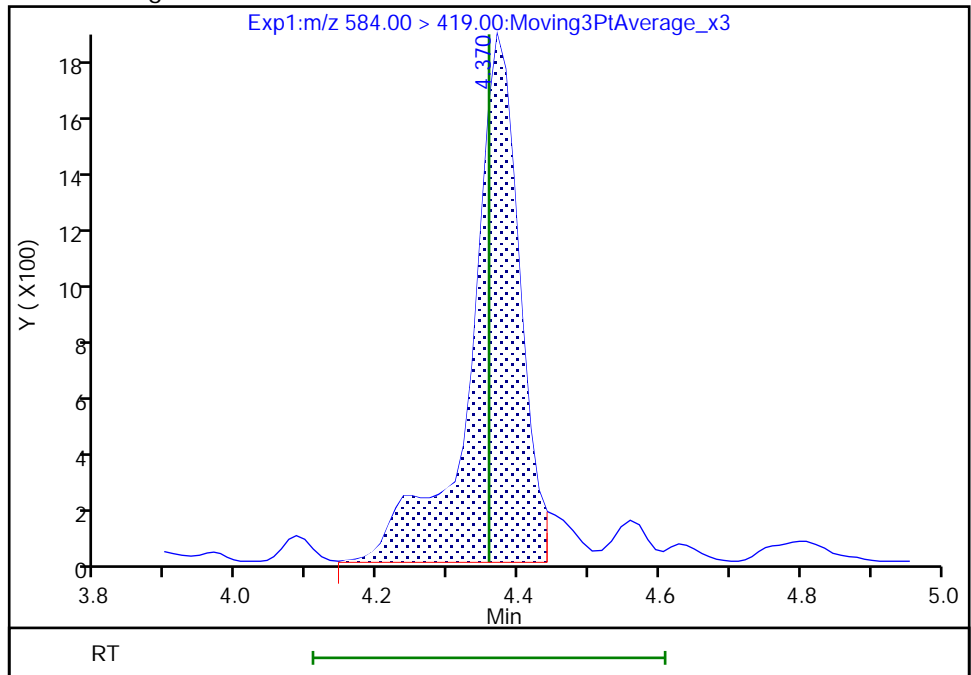
RT: 4.37
Area: 10064
Amount: 0.035797
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 8942
Amount: 0.031806
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:24:51
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

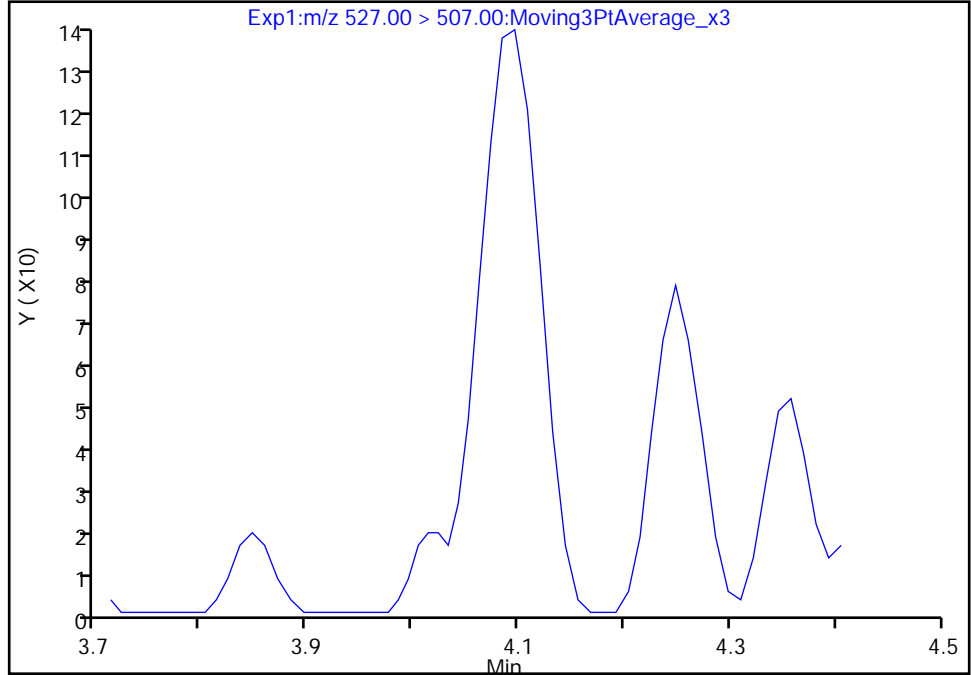
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

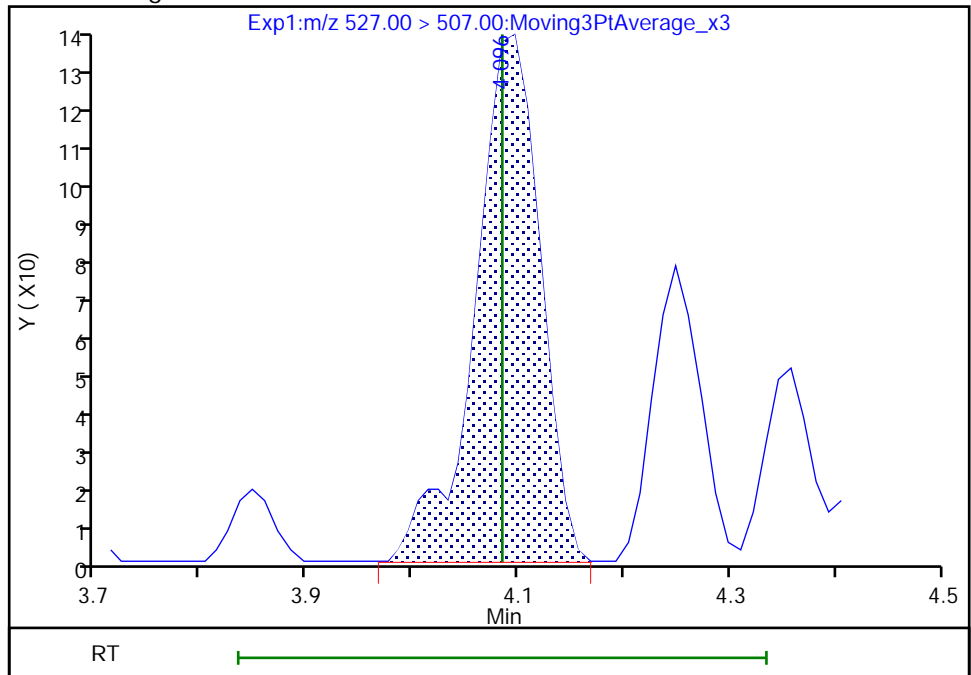
Not Detected
Expected RT: 4.08

Processing Integration Results



RT: 4.10
Area: 594
Amount: 0.001329
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:23:34
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187806/2-A
 Matrix: Solid Lab File ID: PA230126A07.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00 (g) Date Analyzed: 01/26/2023 20:35
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.051		0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.115		0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	2.076		0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.975		0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	1.750		0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	2.221		0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	1.984		0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.852		0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	1.926		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.909		0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.080		0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.951		0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.836		0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.912		0.20	0.023
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.724		0.20	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.626		0.20	0.019
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.247		0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.928	J	2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.989	J	2.00	0.083
27619-97-2	6:2 FTS	1.904	J	2.00	0.057
39108-34-4	8:2 FTS	1.932	J	2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187806/2-A
 Matrix: Solid Lab File ID: PA230126A07.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00(g) Date Analyzed: 01/26/2023 20:35
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	63		50-150
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	85		50-150
STL00991	13C4 PFOS	73		50-150
STL00995	13C5 PFNA	80		50-150
STL00992	13C4 PFBA	76		50-150
STL00993	13C2 PFHxA	78		50-150
STL00996	13C2 PFDA	80		50-150
STL00997	13C2 PFUnA	86		50-150
STL00998	13C2 PFDoA	79		50-150
STL01056	13C8 FOSA	64		50-150
STL01893	13C5 PFPeA	67		50-150
STL02116	13C2 PFTeDA	72		50-150
STL02118	d3-NMeFOSAA	93		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	80		50-150
STL02280	M2-8:2 FTS	85		50-150
STL02337	13C3 PFBS	62		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A07.d
 Lims ID: LCS 200-187806/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Jan-2023 20:35:29 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-187806/2-A
 Misc. Info.: 200-0054135-007 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620
 First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:17:37
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	1647965	0.9529	76.2	20381	
2 Perfluorobutanoic acid	212.90 > 169.00	2.085	2.094	-0.009	1.000	1335349	1.03	103	169	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1174544	0.8401	67.2	6164	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	1138167	1.06	106	38.6	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1109885	0.7232	62.2	113485	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.006	997825	0.9756	Target=2.10	110	2667
	298.90 > 99.00	2.411	2.384	0.027	1.006	509790		1.96(1.05-3.15)		413
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.000	235661	1.05	112	2501	
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	88492	0.7131	61.1	188	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1412094	0.9721	77.8	8090	
6 Perfluorohexanoic acid	313.00 > 269.00	2.730	2.706	0.024	1.000	1235202	1.04	Target=13.16	104	345
	313.00 > 119.00	2.730	2.706	0.024	1.000	96366		12.82(6.58-19.74)		306
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.883	817550	0.9323	Target=2.90	99.4	1612
	349.00 > 99.00	2.730	2.706	0.024	0.883	294378		2.78(1.45-4.35)		1281
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	164468	0.9137	91.4	3257	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	225111	0.8945		71.6	2913	
D 11 18O2 PFHxS										
403.00 > 84.00	3.091	3.069	0.022	0.898	838388	0.7508		63.5	4552	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.091	3.069	0.022	1.000	714609	0.9182	Target=3.18	101	2833	
399.00 > 99.00	3.091	3.069	0.022	1.000	223742		3.19(1.59-4.77)		952	
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1589955	1.09		87.5	9646	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	1337271	0.9873	Target=4.10	98.7	364	
363.00 > 169.00	3.091	3.069	0.022	1.000	320941		4.17(2.05-6.16)		1432	
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.831	2637279	0.9242	Target=2.96	98.1	2608	
377.00 > 85.00	3.126	3.104	0.022	0.831	848845		3.11(1.48-4.44)		2758	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	166918	0.9482		79.8	794	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	306371	0.9518		100	407	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.913	692392	0.9562	Target=4.59	100	3772	
449.00 > 99.00	3.434	3.417	0.017	0.913	147430		4.70(2.30-6.89)		1114	
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1637237	1.06		85.0	8088	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1880247	1.25			5467	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	1246990	0.8748	Target=2.71	87.5	117	
413.00 > 169.00	3.443	3.426	0.017	1.000	485110		2.57(1.36-4.07)		2748	
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	594641	0.8758		73.3	3582	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.000	521140	0.8621	Target=4.23	92.9	847	M
499.00 > 99.00	3.763	3.754	0.009	1.000	124113		4.20(2.11-6.34)		778	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	1356361	1.11	Target=8.78	111	263	
463.00 > 169.00	3.773	3.774	-0.001	1.000	146592		9.25(4.39-13.17)		2861	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1494656	1.00		79.7	8083	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	1453566	1.01		108	5993	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	437273	0.8709	Target=2.37	90.7	2927	
549.00 > 99.00	4.052	4.043	0.009	1.077	199391		2.19(1.18-3.55)		2278	
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.186	1533607	1.00		79.7	9038	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.000	1301641	0.99	Target=11.13	99.2	570	
513.00 > 169.00	4.084	4.074	0.010	1.000	118586		10.98(5.56-16.69)		738	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	224520	1.02		85.0	1743	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	328578	0.9661		101	1993	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	905996	1.12		112	3501	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1002300	0.8009		64.1	3235	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	353671	1.17		93.5	1109	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	245878	0.9638		96.4	732	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.148	304306	0.8131	Target=2.45	84.3	3700	
599.00 > 99.00	4.322	4.322	0.0	1.148	124515		2.44(1.23-3.68)		1809	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1435372	1.08		86.4	9028	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	1160654	0.9259	Target=10.33	92.6	402	
563.00 > 169.00	4.346	4.346	0.0	1.000	106843		10.86(5.17-15.50)		1287	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	264998	0.99		99.5	2046	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	358495	1.23		98.6	811	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.183	2113958	0.9466		100	5088	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.594	4.584	0.010	1.000	1031967	0.9630	Target=8.10	96.3	123	
613.00 > 169.00	4.594	4.584	0.010	1.000	128122		8.05(4.05-12.15)		1748	
D 36 13C2 PFDaA										
615.00 > 570.00	4.594	4.584	0.010	1.334	1315753	0.9873		79.0	4914	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	190545	0.8860		91.9	3926	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.267	128089	0.8425	Target=0.51	87.0	3318	
699.00 > 99.00	4.769	4.770	-0.001	1.267	218779		0.59(0.26-0.77)		3362	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.047	1021515	0.9543	Target=6.06	95.4	140	
663.00 > 169.00	4.798	4.799	-0.001	1.044	165236		6.18(3.03-9.09)		1819	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	106772	1.04	Target=0.83	104	1495	
713.00 > 219.00	4.994	4.998	-0.004	0.998	114933		0.93(0.42-1.25)		1367	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1027596	0.8965		71.7	8771	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.371	5.362	0.009	1.002	1013873	1.13	Target=6.74	113	182	
813.00 > 169.00	5.360	5.362	-0.002	1.000	152164		6.66(3.37-10.11)		1730	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1211342	0.8623		69.0	5393	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.711	0.008	1.067	781606	1.00	Target=6.99	99.7	170	M
913.00 > 169.00	5.719	5.711	0.008	1.067	105545		7.41(3.50-10.49)		1208	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A07.d

Injection Date: 26-Jan-2023 20:35:29

Instrument ID: LC812

Lims ID: LCS 200-187806/2-A

Client ID:

Operator ID: LC812user

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

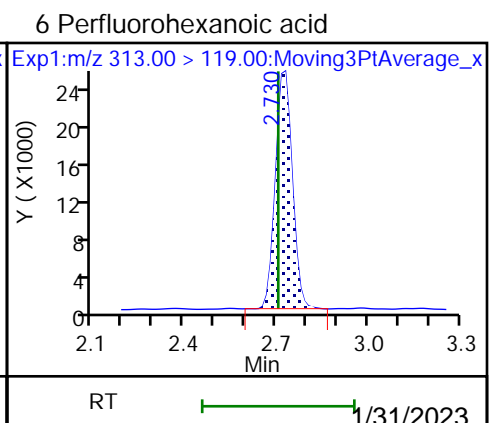
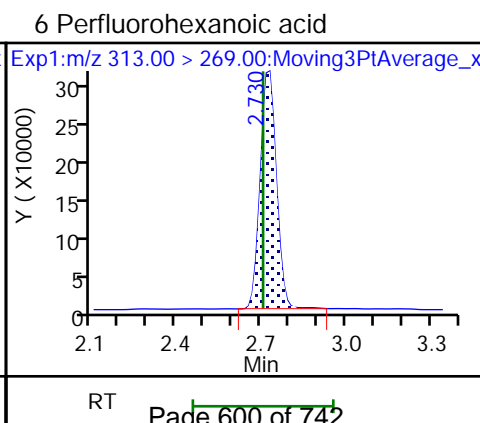
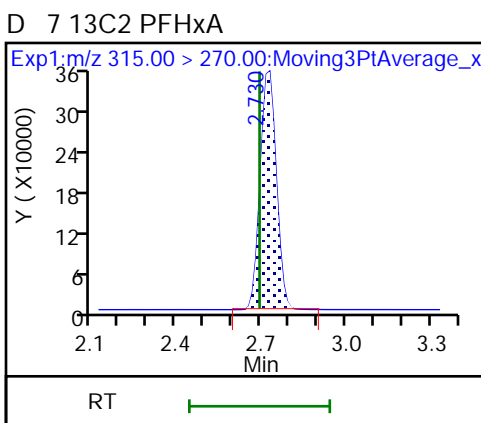
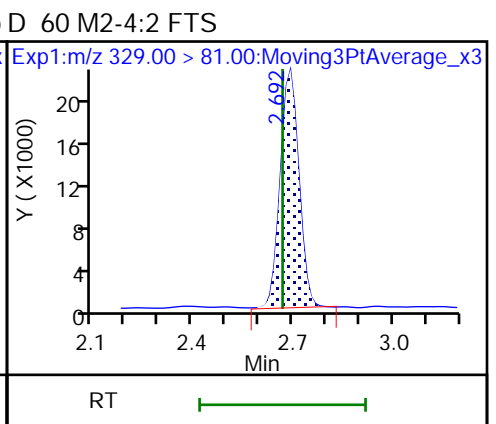
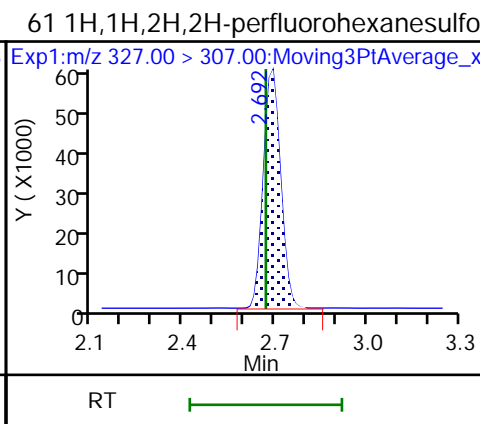
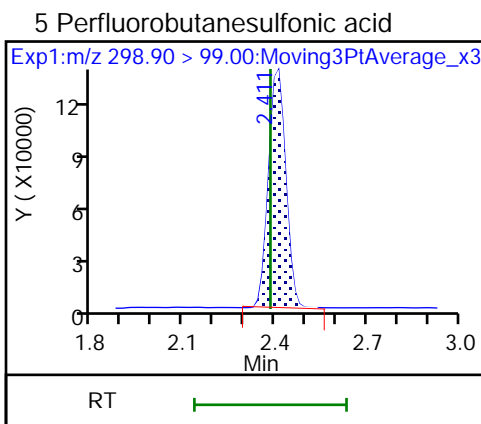
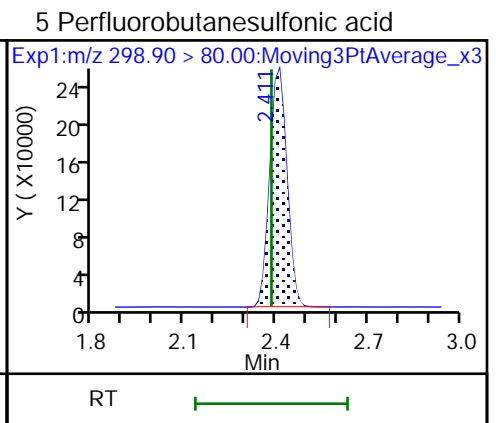
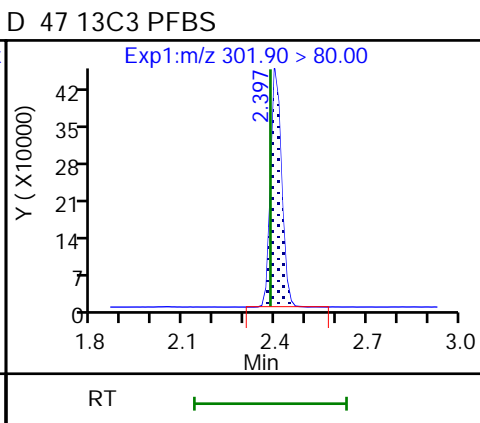
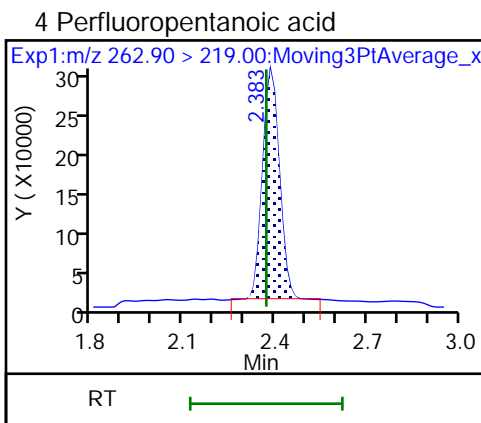
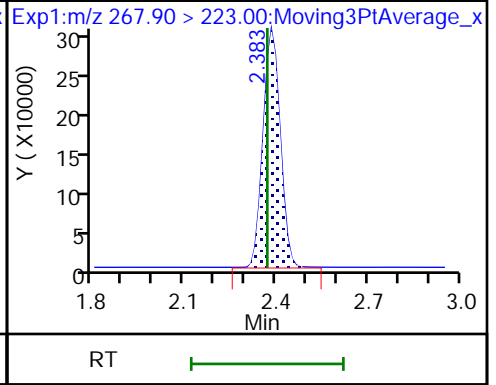
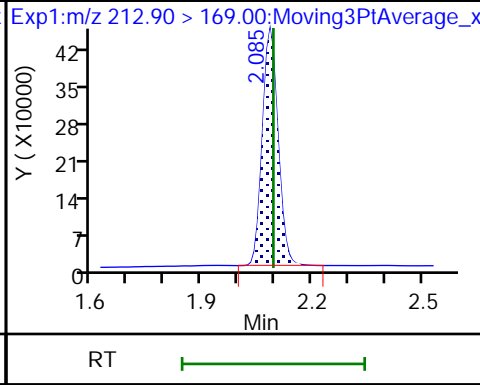
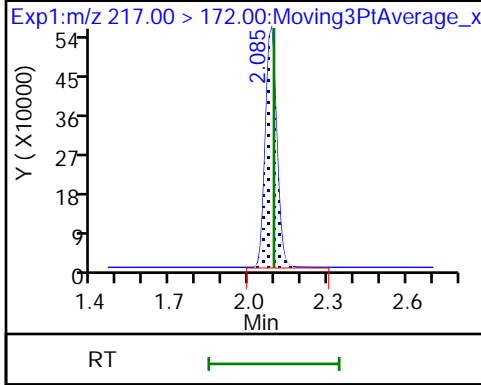
Method: PFC_LC812

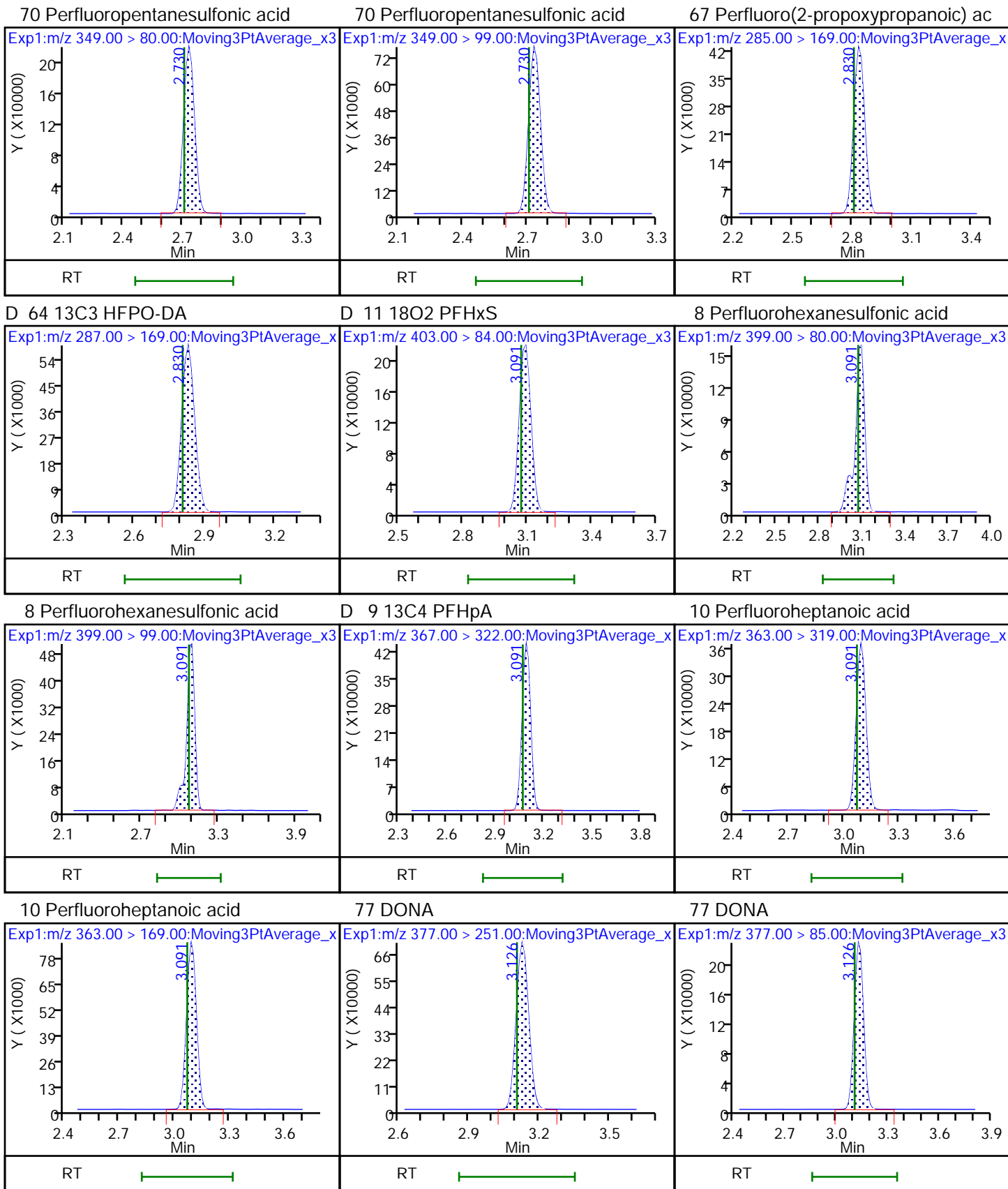
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

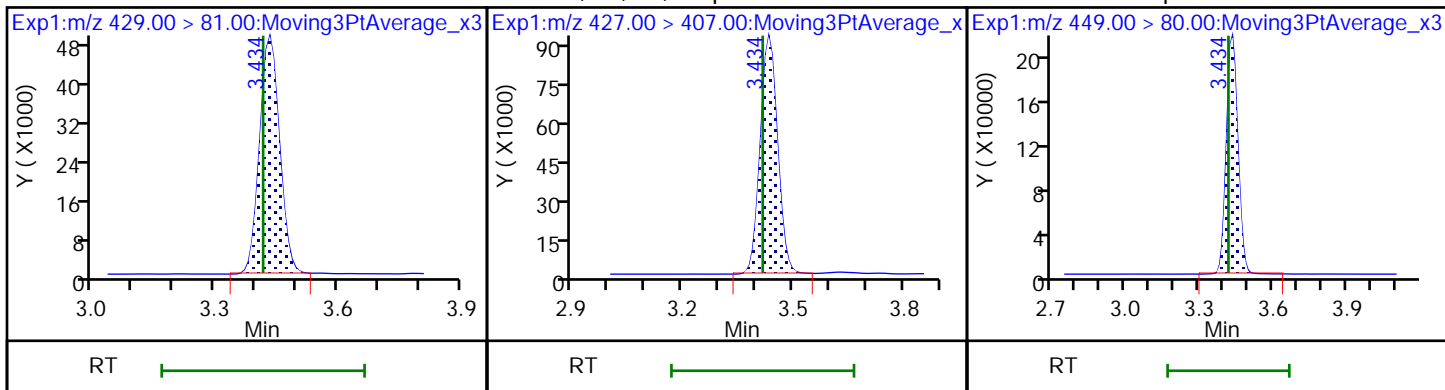




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

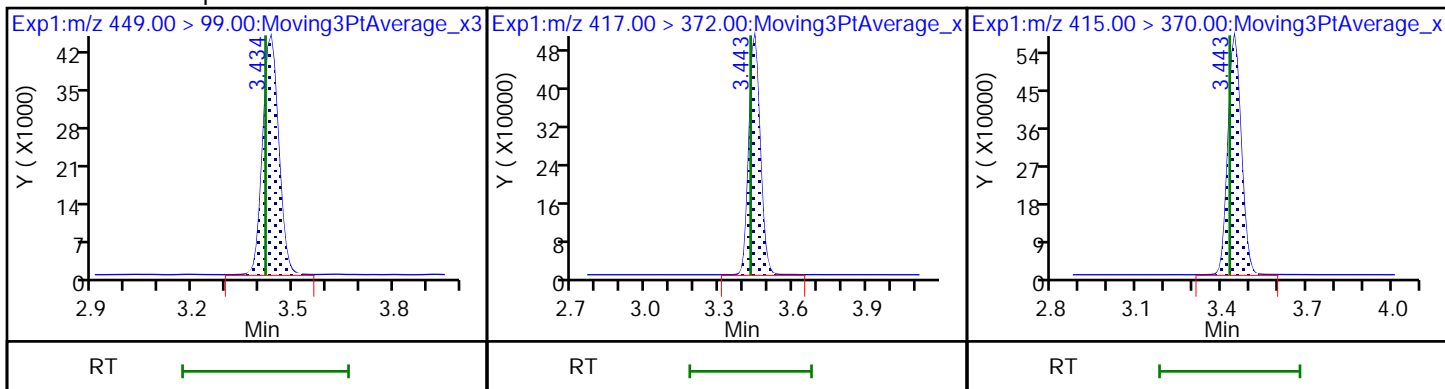
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

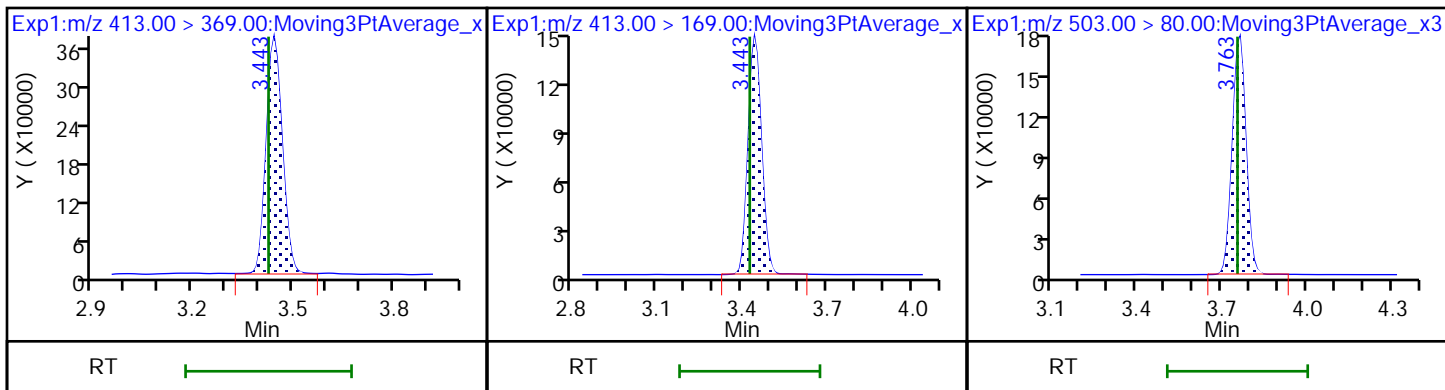
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

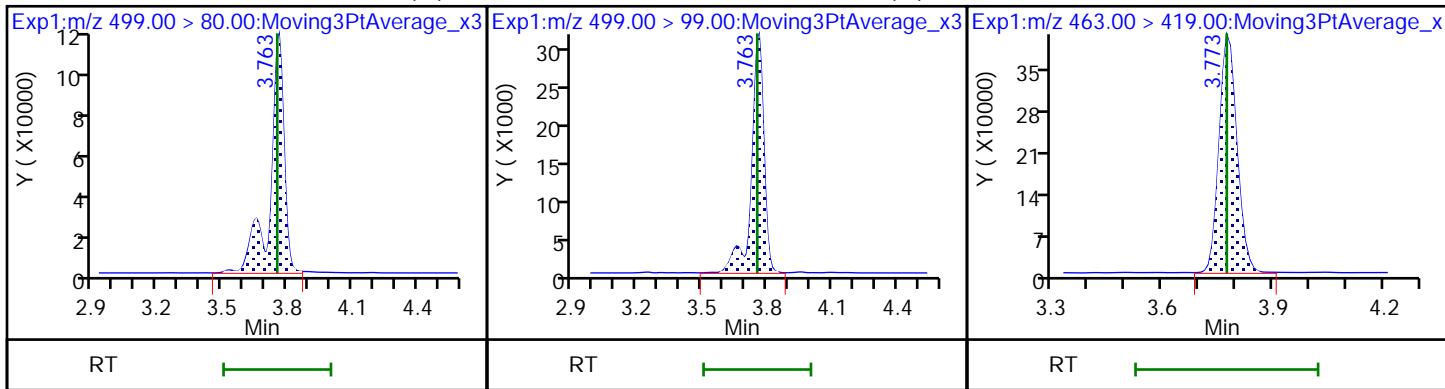
D 18 13C4 PFOS

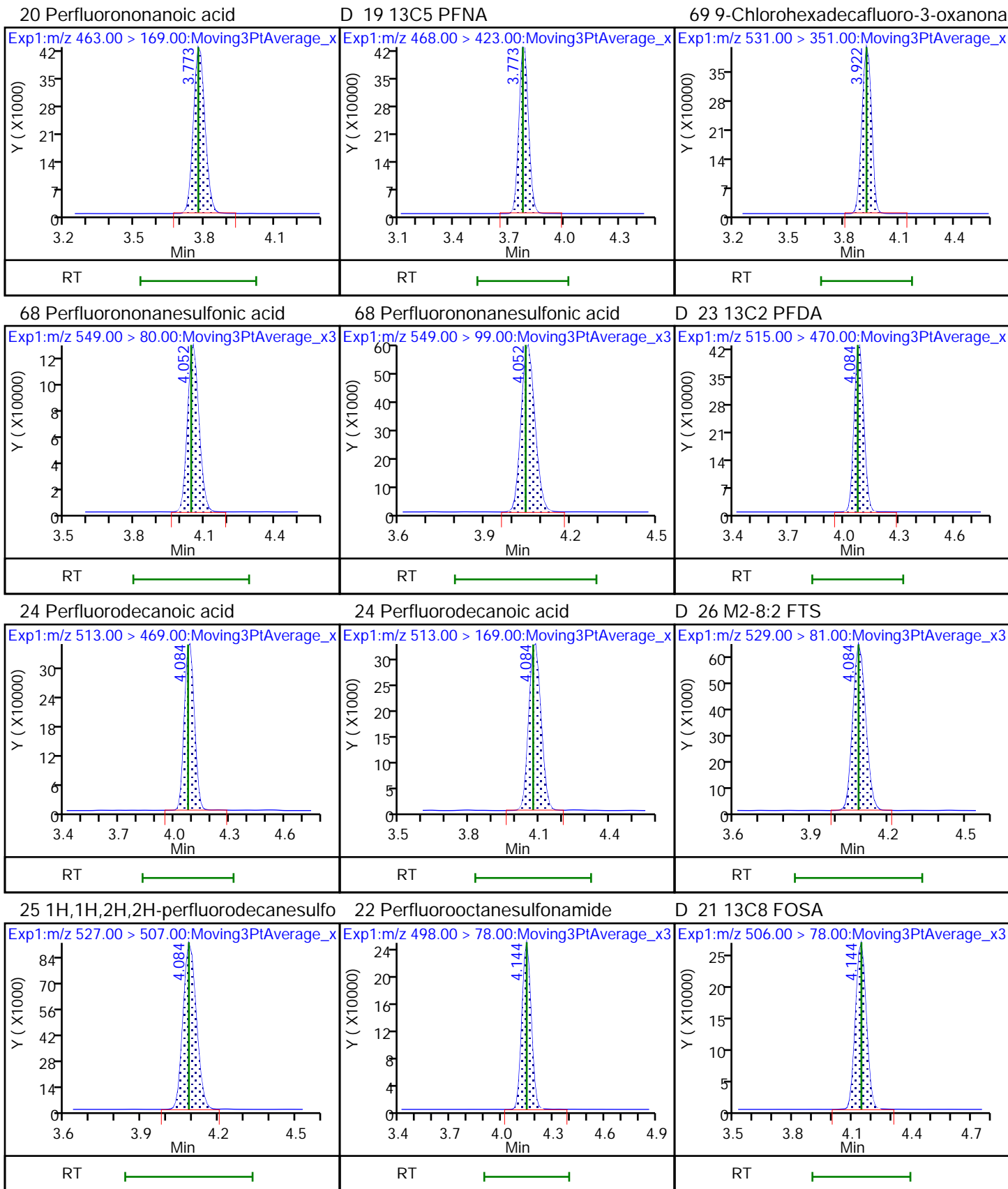


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

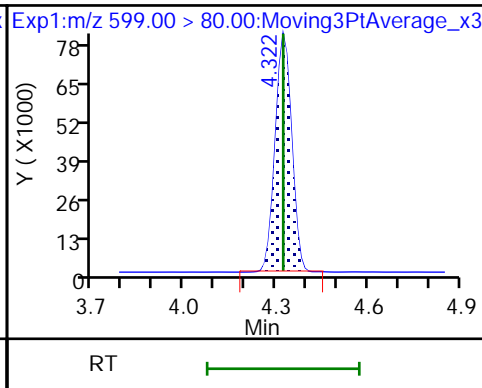
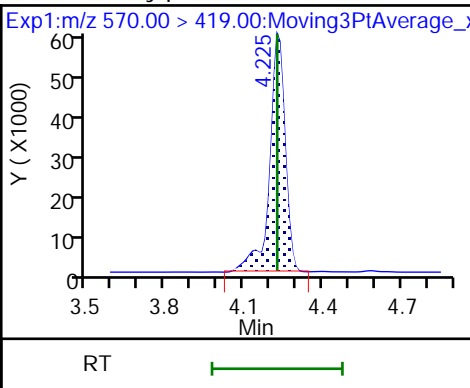
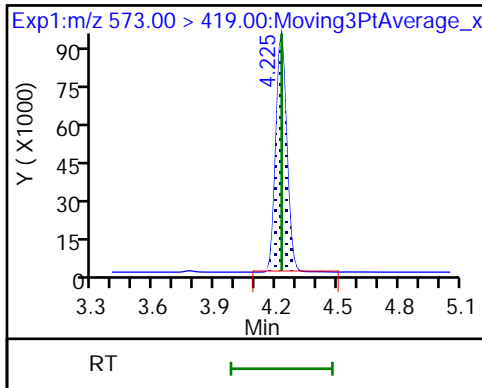




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

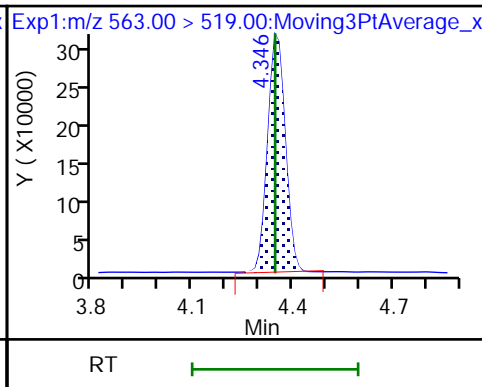
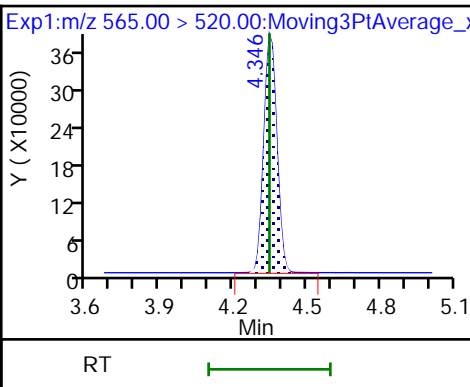
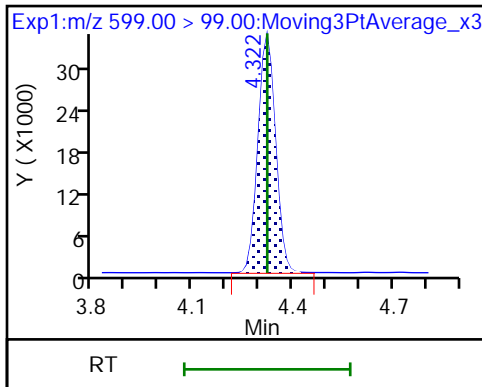
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

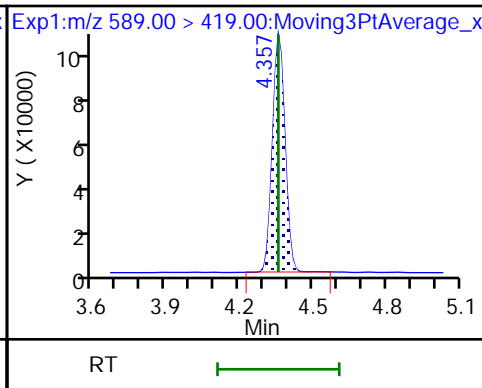
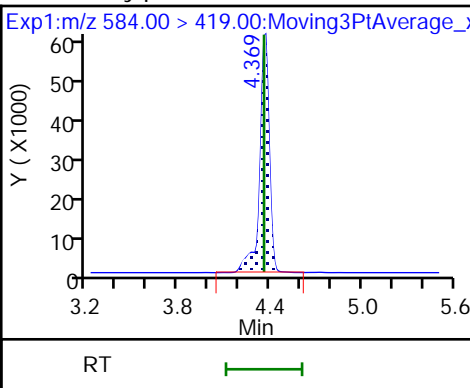
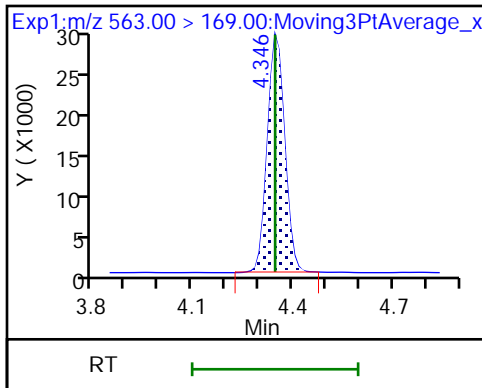
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid

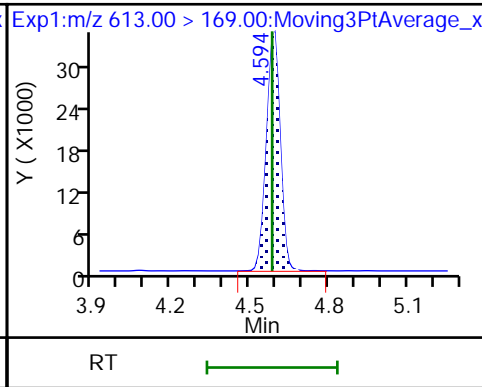
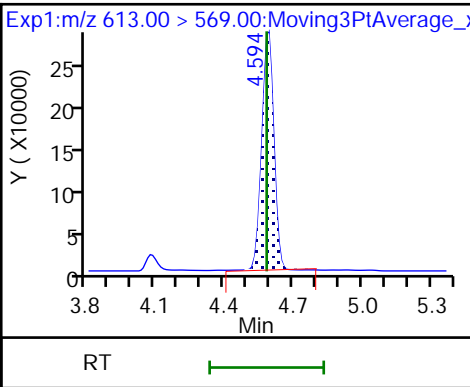
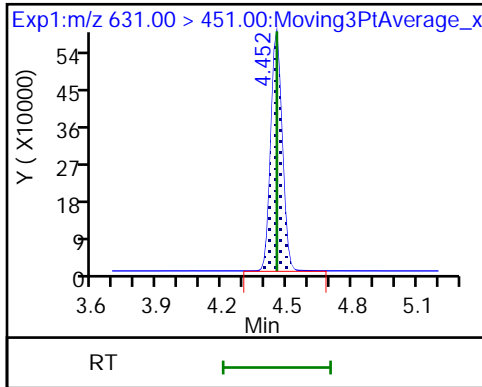
D 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

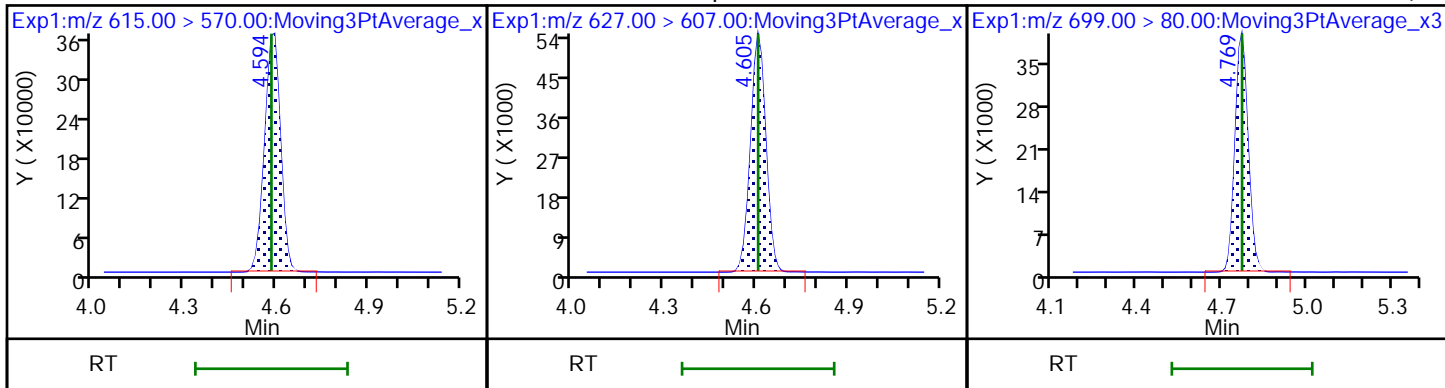
37 Perfluorododecanoic acid



D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul

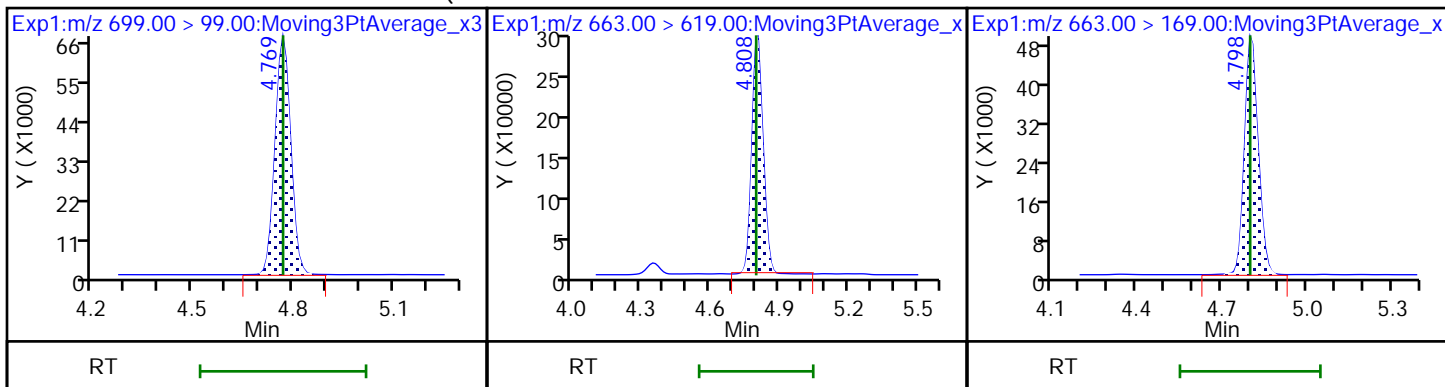
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

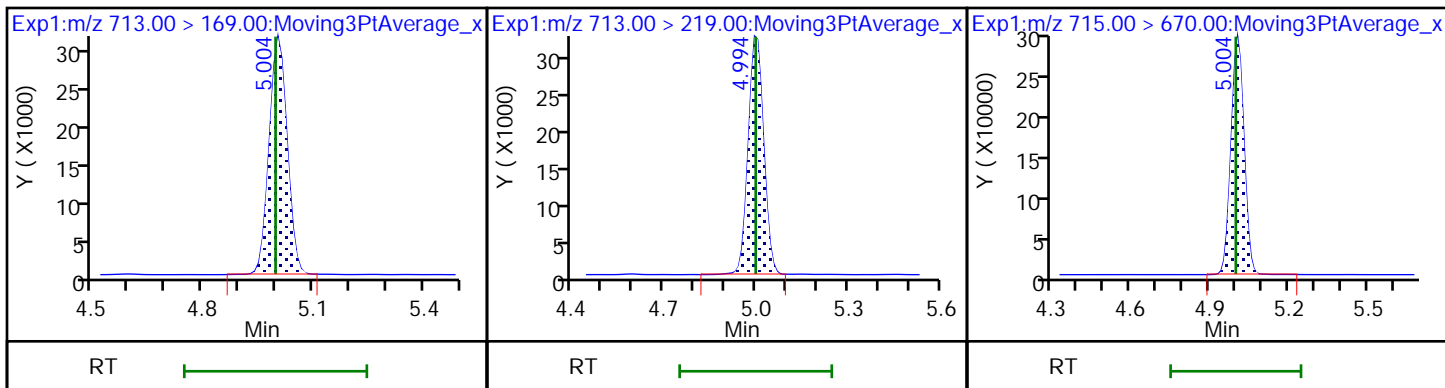
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

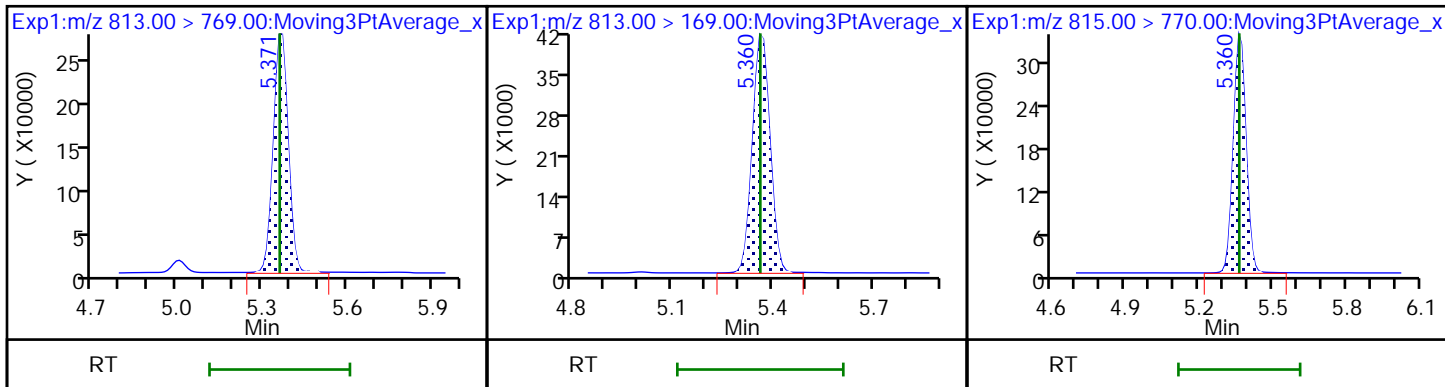
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

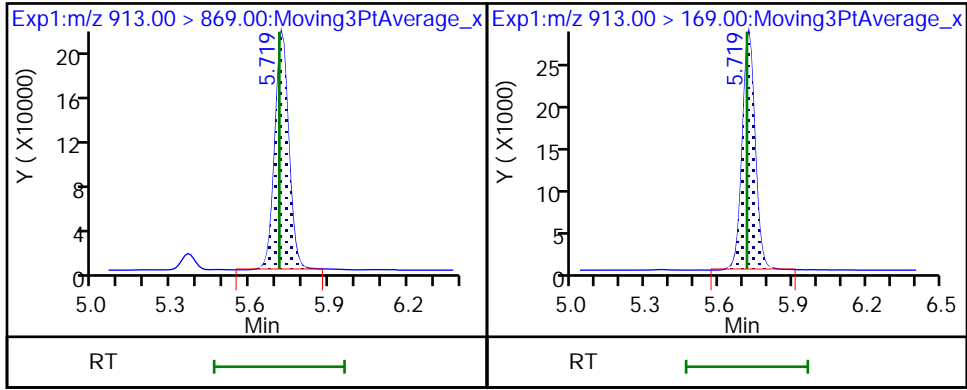
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

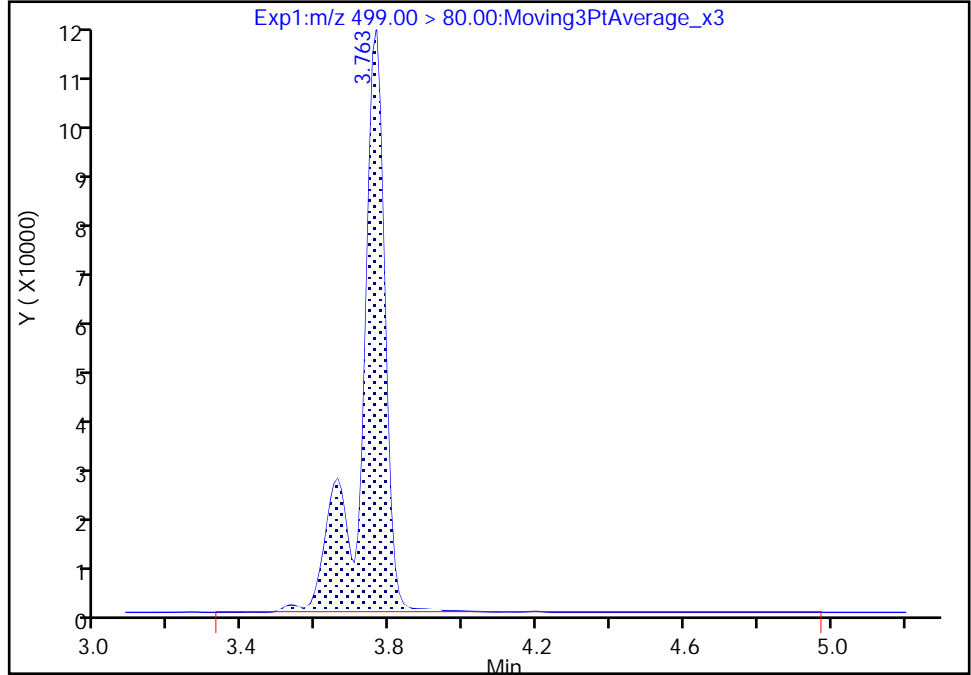
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A07.d
Injection Date: 26-Jan-2023 20:35:29 Instrument ID: LC812
Lims ID: LCS 200-187806/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

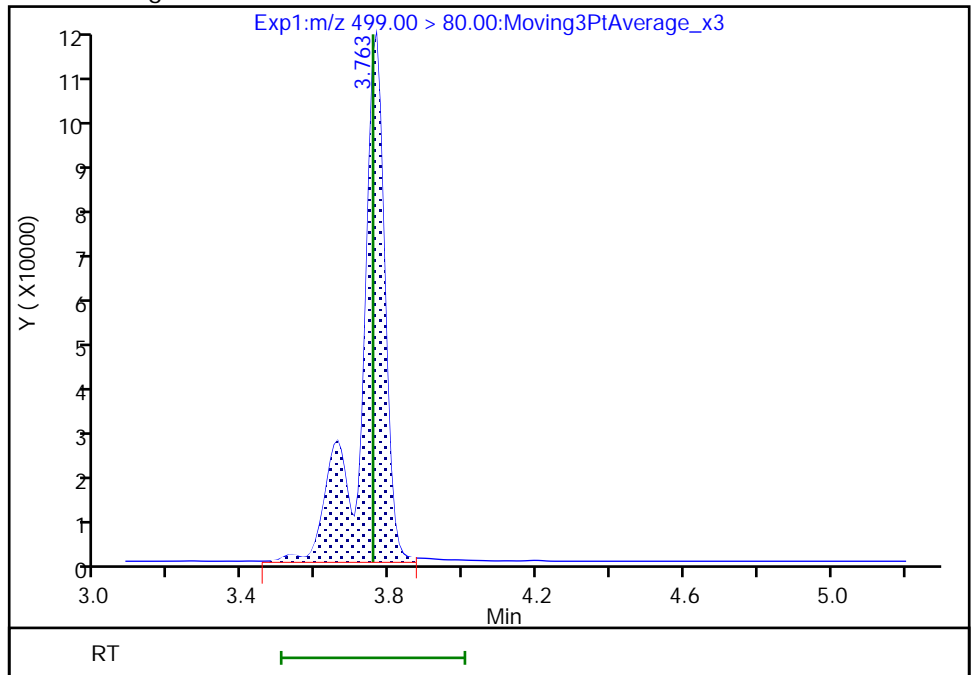
RT: 3.76
Area: 527436
Amount: 0.872511
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 521140
Amount: 0.862096
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:49:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

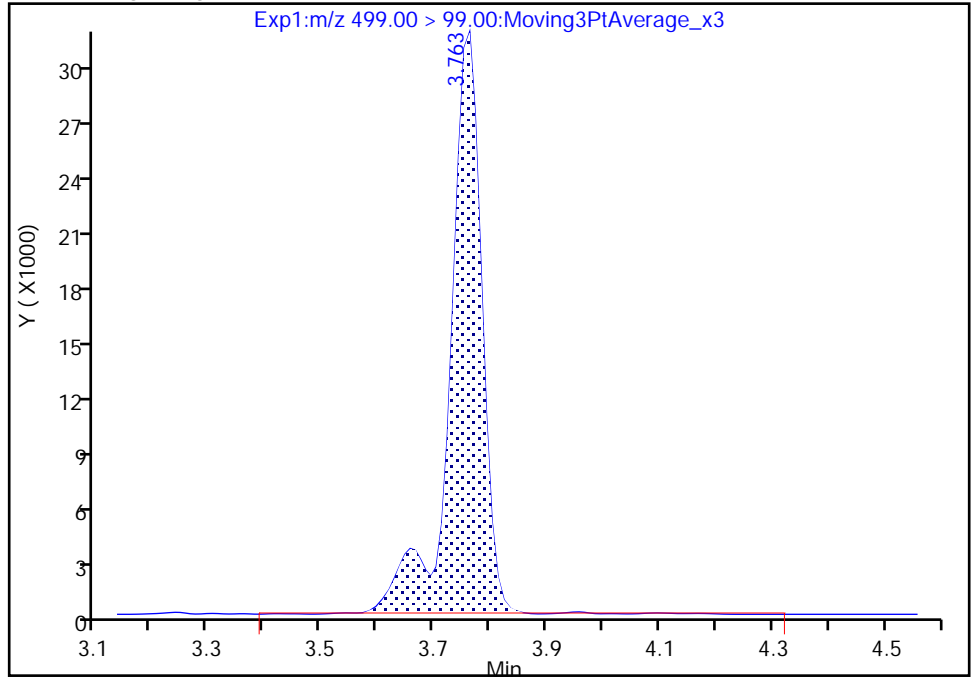
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A07.d
Injection Date: 26-Jan-2023 20:35:29 Instrument ID: LC812
Lims ID: LCS 200-187806/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

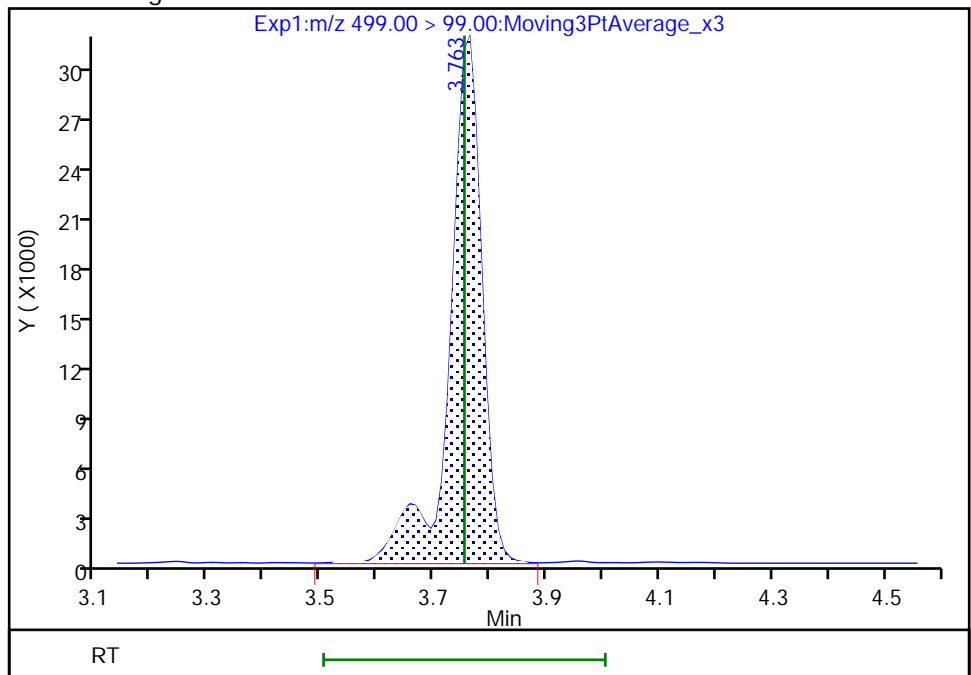
RT: 3.76
Area: 125594
Amount: 0.872511
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 124113
Amount: 0.862096
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:49:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-60_(15-15.5)P MS Lab Sample ID: 460-273176-1 MS
 Matrix: Solid Lab File ID: PA230126A16.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:05
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.15(g) Date Analyzed: 01/26/2023 21:48
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 31.4 % Solids: 68.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.705		0.71	0.47
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.551		0.28	0.078
307-24-4	Perfluorohexanoic acid (PFHxA)	2.751		0.28	0.065
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.036		0.28	0.055
335-67-1	Perfluorooctanoic acid (PFOA)	2.943		0.28	0.082
375-95-1	Perfluorononanoic acid (PFNA)	2.514		0.28	0.048
335-76-2	Perfluorodecanoic acid (PFDA)	2.700		0.28	0.040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.713		0.28	0.038
307-55-1	Perfluorododecanoic acid (PFDoA)	2.754		0.28	0.035
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.482		0.28	0.035
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.875		0.28	0.037
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.305		0.28	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.782		0.28	0.058
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.464		0.28	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.516		0.28	0.16
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.795		0.28	0.027
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.885		0.28	0.048
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.959		2.83	0.16
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.095		2.83	0.12
27619-97-2	6:2 FTS	2.917		2.83	0.081
39108-34-4	8:2 FTS	2.904		2.83	0.052

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-60_(15-15.5)P MS Lab Sample ID: 460-273176-1 MS
 Matrix: Solid Lab File ID: PA230126A16.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:05
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.15(g) Date Analyzed: 01/26/2023 21:48
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 31.4 % Solids: 68.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	57		50-150
STL01892	13C4 PFHpA	70		50-150
STL00990	13C4 PFOA	73		50-150
STL00991	13C4 PFOS	66		50-150
STL00995	13C5 PFNA	72		50-150
STL00992	13C4 PFBA	73		50-150
STL00993	13C2 PFHxA	73		50-150
STL00996	13C2 PFDA	70		50-150
STL00997	13C2 PFUnA	63		50-150
STL00998	13C2 PFDoA	50		50-150
STL01056	13C8 FOSA	60		50-150
STL01893	13C5 PFPeA	69		50-150
STL02116	13C2 PFTeDA	38	*	50-150
STL02118	d3-NMeFOSAA	74		50-150
STL02117	d5-NEtFOSAA	72		50-150
STL02279	M2-6:2 FTS	65		50-150
STL02280	M2-8:2 FTS	70		50-150
STL02337	13C3 PFBS	62		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A16.d
 Lims ID: 460-273176-A-1-B MS
 Client ID: BCS-09-60_(15-15.5)P
 Sample Type: MS
 Inject. Date: 26-Jan-2023 21:48:54 ALS Bottle#: 13 Worklist Smp#: 16
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-1-B MS
 Misc. Info.: 200-0054135-016 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 17:38:12

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.076	2.094	-0.018	0.603	1528839	0.9138	73.1	13634	
2 Perfluorobutanoic acid	212.90 > 169.00	2.085	2.094	-0.009	1.004	1158064	0.9560	95.6	128	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1167706	0.8634	69.1	5105	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	964560	0.9016	90.2	25.3	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1078141	0.7262	62.5	94062	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.397	2.384	0.013	1.000	809327	0.8146	Target=2.10	92.1	718
	298.90 > 99.00	2.397	2.384	0.013	1.000	406778	1.99(1.05-3.15)		52.4	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.005	228923	1.06	114	337	
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.778	85164	0.7095	60.8	80.2	M
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.789	1290502	0.9184	73.5	5105	
6 Perfluorohexanoic acid	313.00 > 269.00	2.717	2.706	0.011	1.000	1057551	0.9723	Target=13.16	97.2	174
	313.00 > 119.00	2.717	2.706	0.011	1.000	78701	13.44(6.58-19.74)		147	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.886	718407	0.9410	Target=2.90	100	765
	349.00 > 99.00	2.730	2.706	0.024	0.886	258446	2.78(1.45-4.35)		506	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	152410	0.8594	85.9	2204	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	221791	0.9110		72.9	4436	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.895	729864	0.6756		57.1	5397	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.000	666332	0.9835	Target=3.18	108	860	M
399.00 > 99.00	3.080	3.069	0.011	1.000	219160		3.04(1.59-4.77)	38.9		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1230577	0.8747		70.0	8608	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	1125087	1.07	Target=4.10	107	221	
363.00 > 169.00	3.091	3.069	0.022	1.000	276807		4.06(2.05-6.16)	955		
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.833	2397790	0.9700	Target=2.96	103	2476	
377.00 > 85.00	3.126	3.104	0.022	0.833	756292		3.17(1.48-4.44)	2024		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	131307	0.7711		64.9	284	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	261053	1.03		109	356	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.915	546336	0.8710	Target=4.59	91.5	984	M
449.00 > 99.00	3.425	3.417	0.008	0.913	113036		4.83(2.30-6.89)	189		M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1352062	0.9071		72.6	16006	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1818871	1.25		7092		
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	1224523	1.04	Target=2.71	104	120	M
413.00 > 169.00	3.443	3.426	0.017	1.000	406370		3.01(1.36-4.07)	2011		
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	515148	0.7843		65.6	1196	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.754	-0.001	1.000	465666	0.8892	Target=4.23	95.8	552	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	172286		2.70(2.11-6.34)	124		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	946198	0.8886	Target=8.78	88.9	172	
463.00 > 169.00	3.773	3.774	-0.001	1.000	108013		8.76(4.39-13.17)	434		
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1303033	0.8973		71.8	6050	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.045	1050627	0.8404		90.2	3988	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	328953	0.7563	Target=2.37	78.8	1074	M
549.00 > 99.00	4.052	4.043	0.009	1.080	135307		2.43(1.18-3.55)	321		M
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1297477	0.8710		69.7	4641	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	1059223	0.9544	Target=11.13	95.4	248	
513.00 > 169.00	4.073	4.074	-0.001	1.000	97539		10.86(5.56-16.69)		545	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	179617	0.8419		70.3	589	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	279336	1.03		107	2495	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	743017	1.02		102	4328	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	905753	0.7481		59.9	4086	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	270261	0.9228		73.8	785	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	203873	1.05		105	855	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	205665	0.6343	Target=2.45	65.8	1085	M
599.00 > 99.00	4.322	4.322	0.0	1.151	79421		2.59(1.23-3.68)		52.3	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1008694	0.7845		62.8	6447	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.345	4.346	-0.001	1.000	844663	0.9588	Target=10.33	95.9	269	
563.00 > 169.00	4.345	4.346	-0.001	1.000	71382		11.83(5.17-15.50)		700	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	207243	1.09		109	822	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	254905	0.9059		72.5	653	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.451	4.452	-0.001	1.186	1457019	0.7531		79.9	5197	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	639772	0.9736	Target=8.10	97.4	102	
613.00 > 169.00	4.583	4.584	-0.001	1.000	83570		7.66(4.05-12.15)		932	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	806783	0.6258		50.1	4293	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	146077	0.8490		88.1	2817	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.271	52701	0.4001	Target=0.51	41.3	825	
699.00 > 99.00	4.769	4.770	-0.001	1.271	100711		0.52(0.26-0.77)		263	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.798	4.799	-0.001	1.047	575860	0.8774	Target=6.06	87.7	107	
663.00 > 169.00	4.798	4.799	-0.001	1.047	83509		6.90(3.03-9.09)		1803	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	53319	1.02	Target=0.83	102	1193	
713.00 > 219.00	4.993	4.998	-0.005	0.998	55639		0.96(0.42-1.25)		1017	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	525320	0.4738		37.9	3938	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.360	5.362	-0.002	1.000	402127	1.07	Target=6.74	107	120	
813.00 > 169.00	5.360	5.362	-0.002	1.000	56501		7.12(3.37-10.11)		786	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	505977	0.3723		29.8	2997	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.718	5.711	0.007	1.067	302176	0.9230	Target=6.99	92.3	127	
913.00 > 169.00	5.718	5.711	0.007	1.067	42110		7.18(3.50-10.49)		747	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A16.d

Injection Date: 26-Jan-2023 21:48:54

Instrument ID: LC812

Lims ID: 460-273176-A-1-B MS

Client ID: BCS-09-60_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 13

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

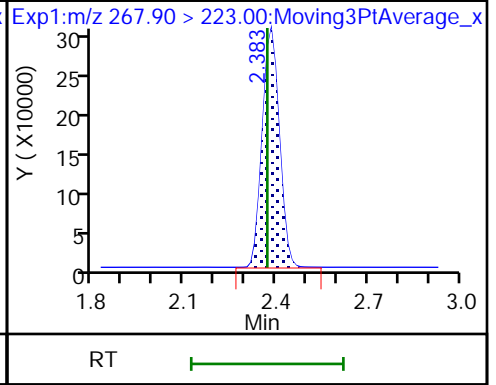
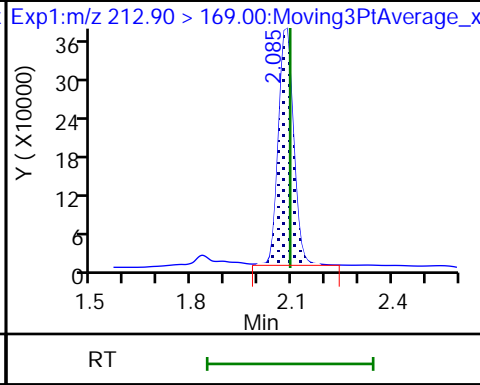
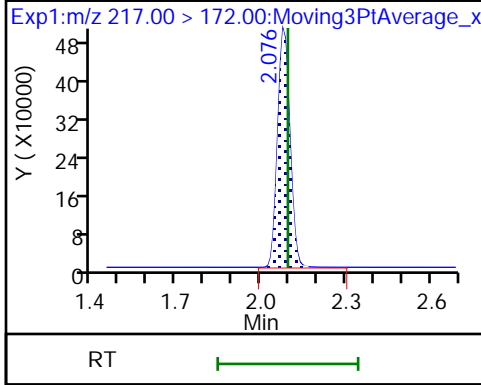
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

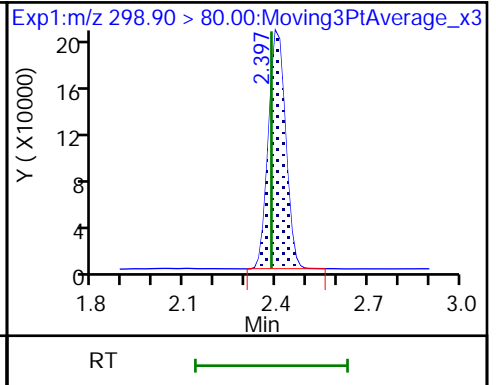
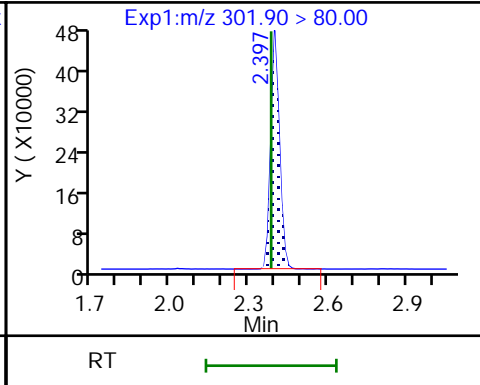
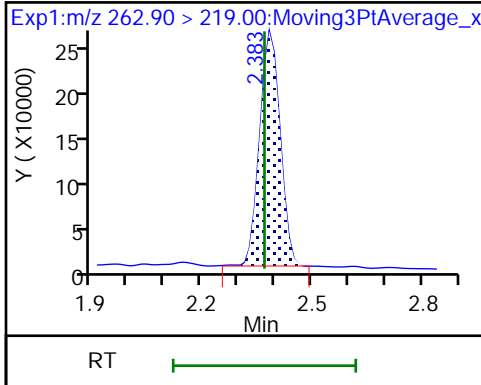
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

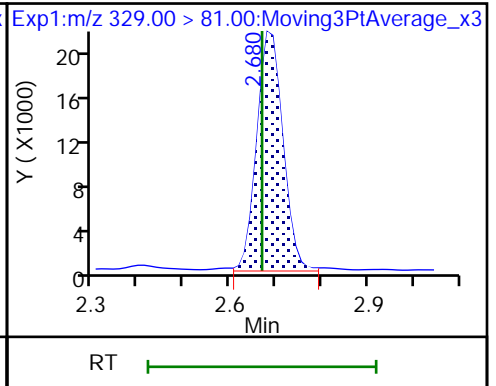
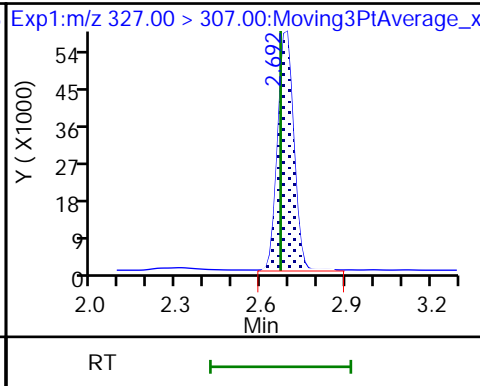
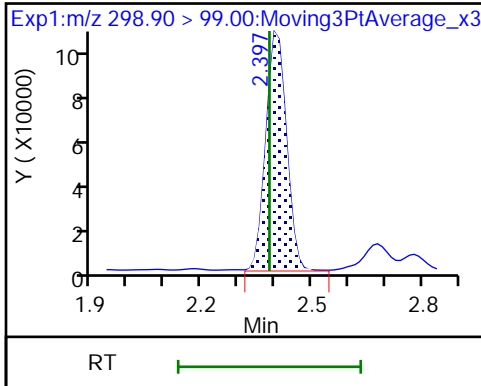
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo

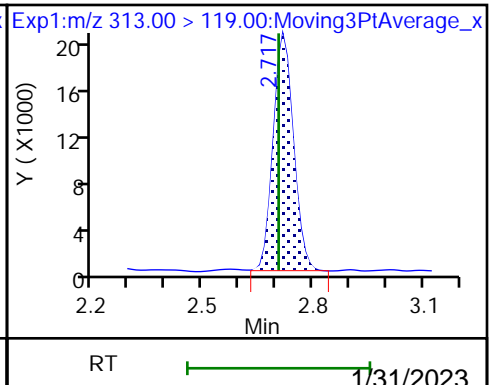
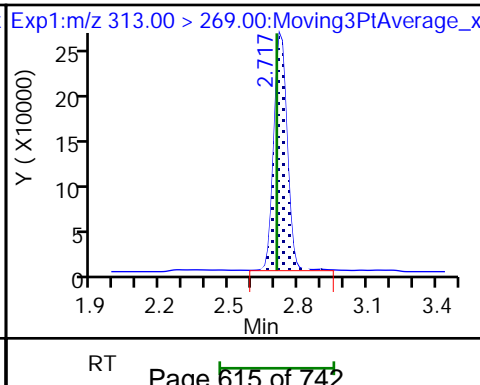
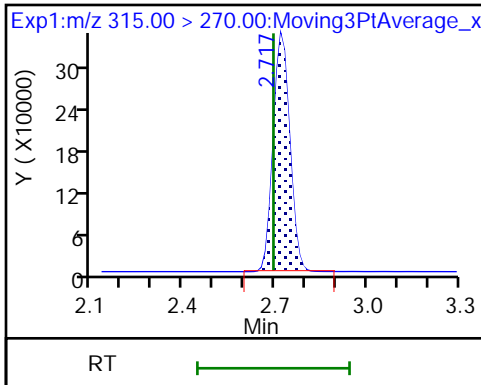
D 60 M2-4:2 FTS (M)

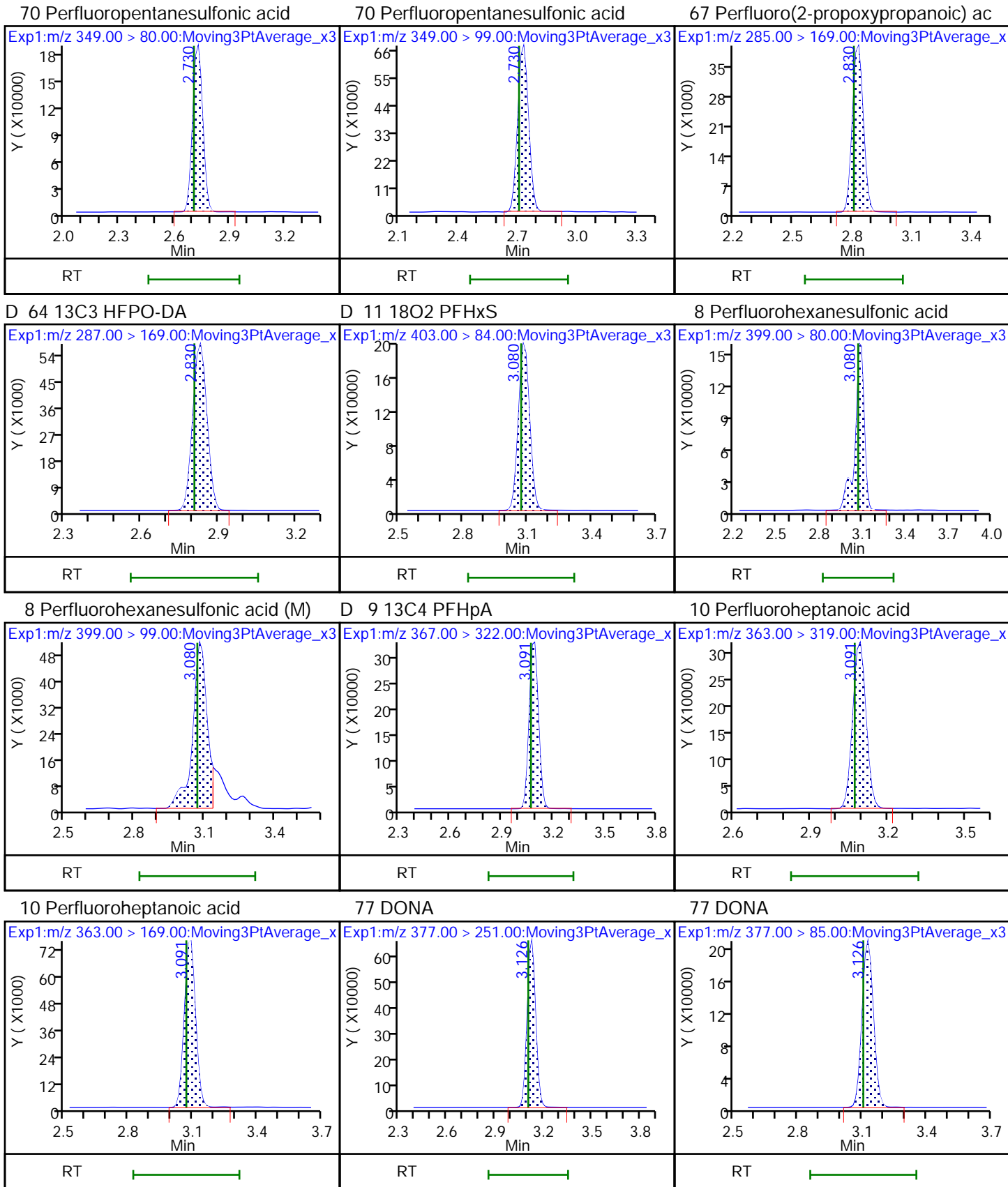


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

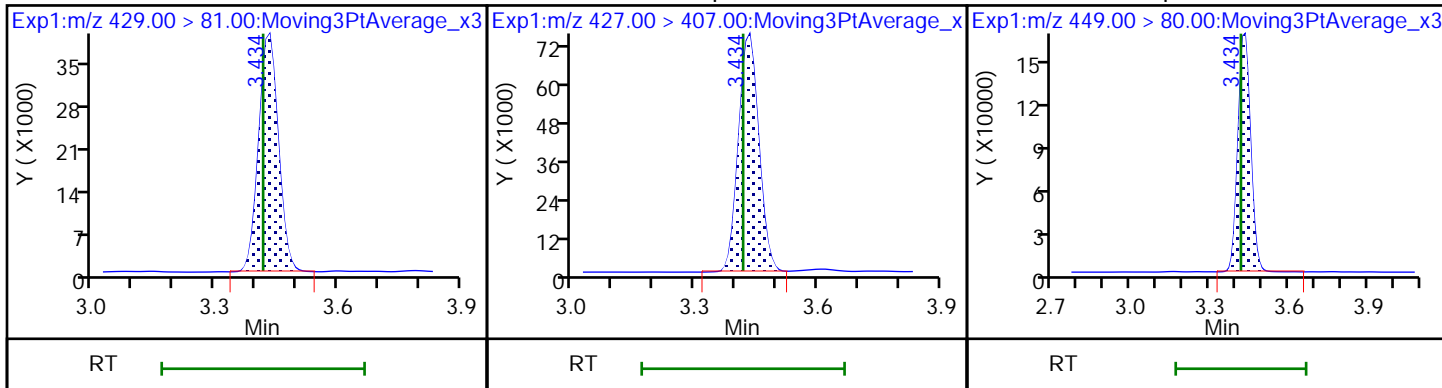




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

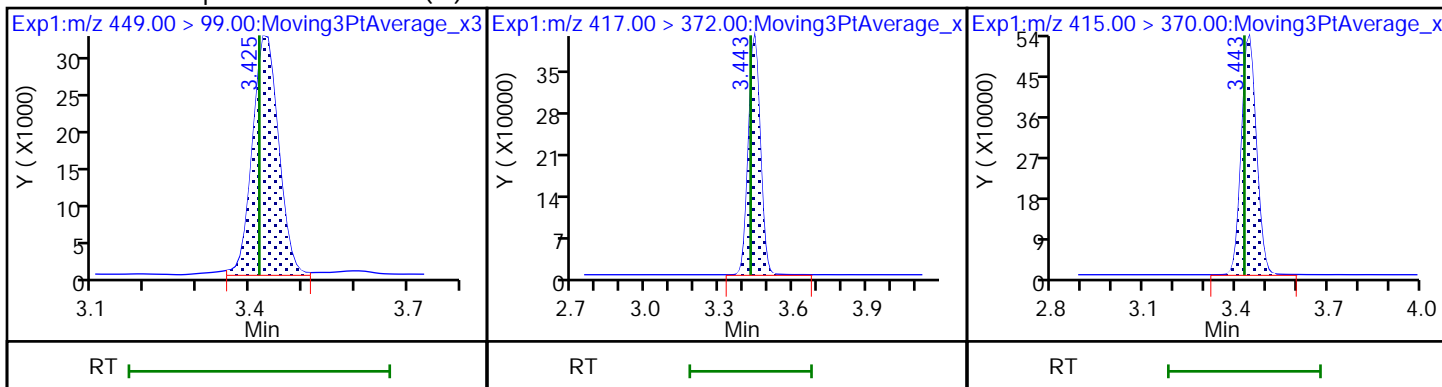
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

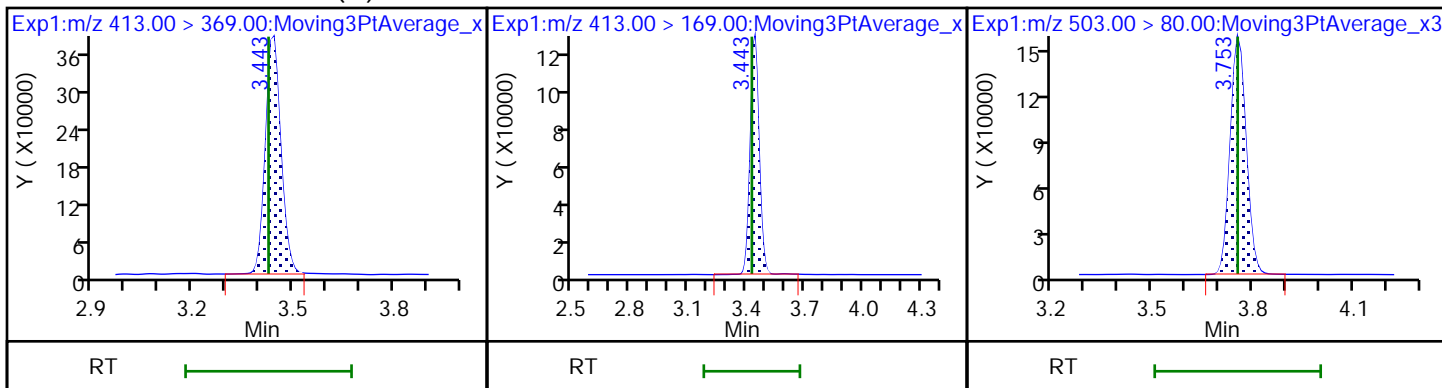
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

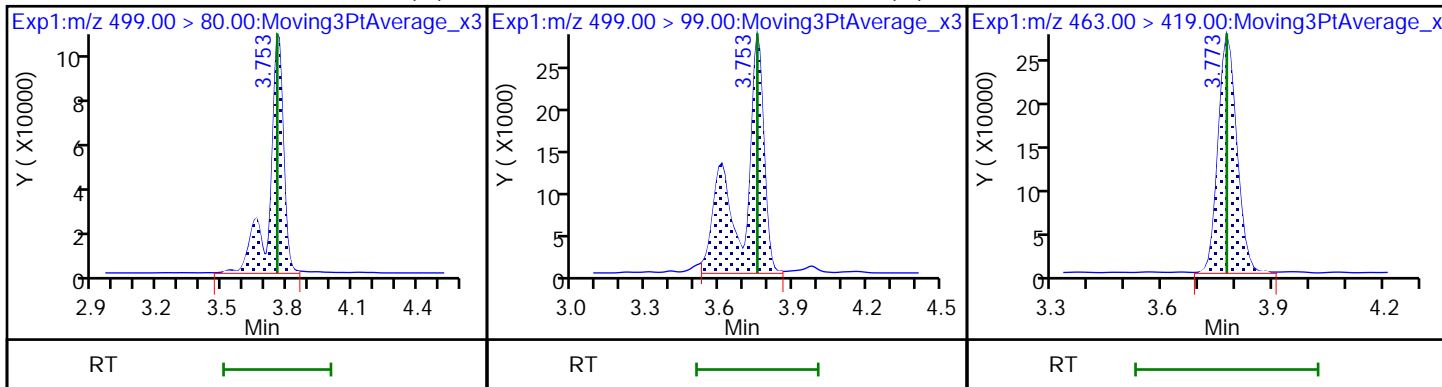
D 18 13C4 PFOS

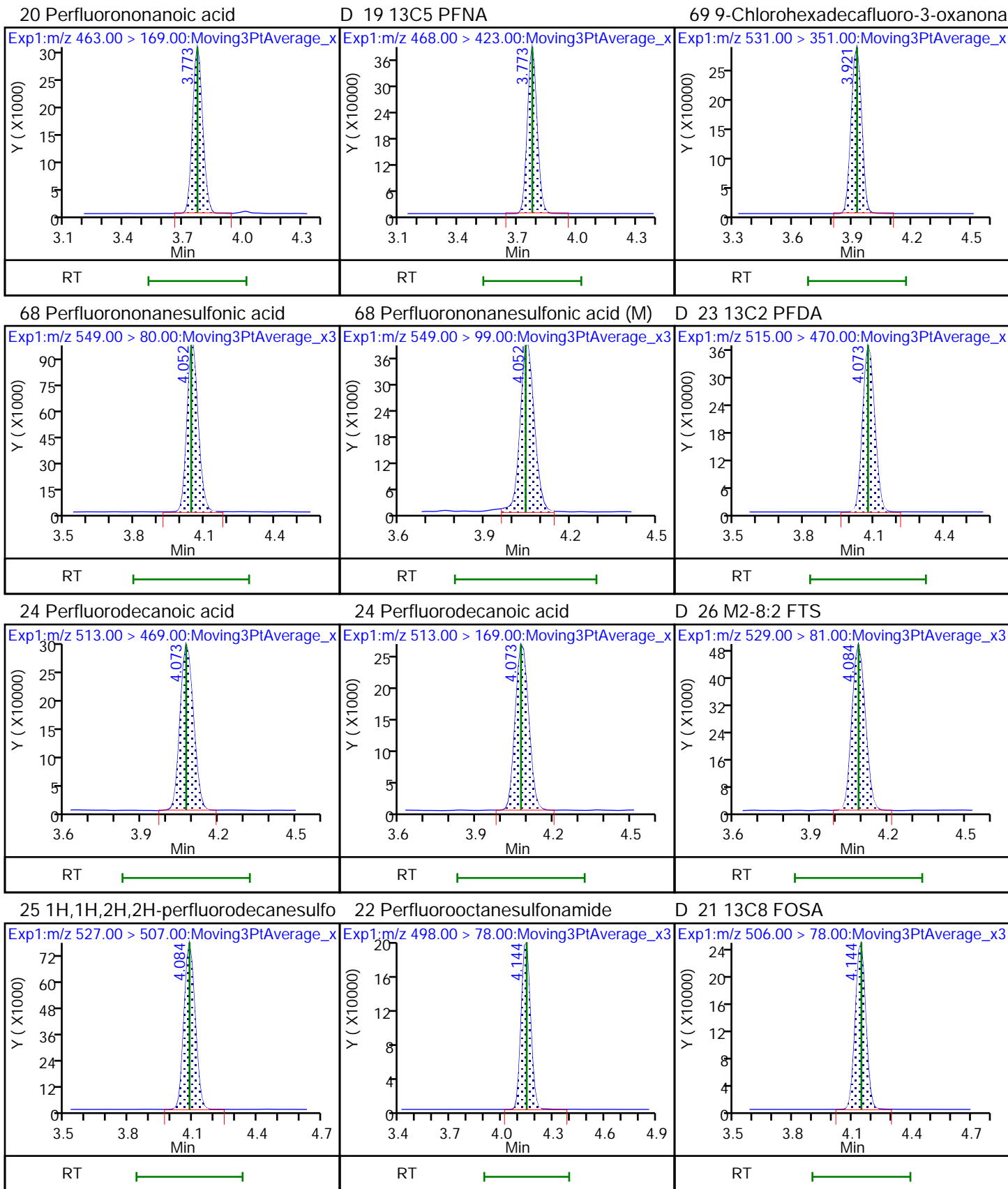


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

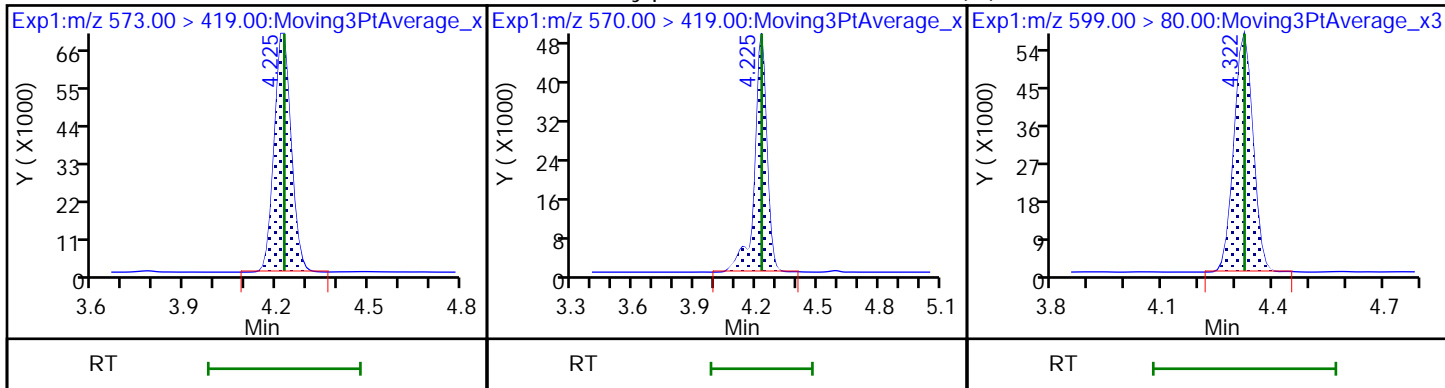
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

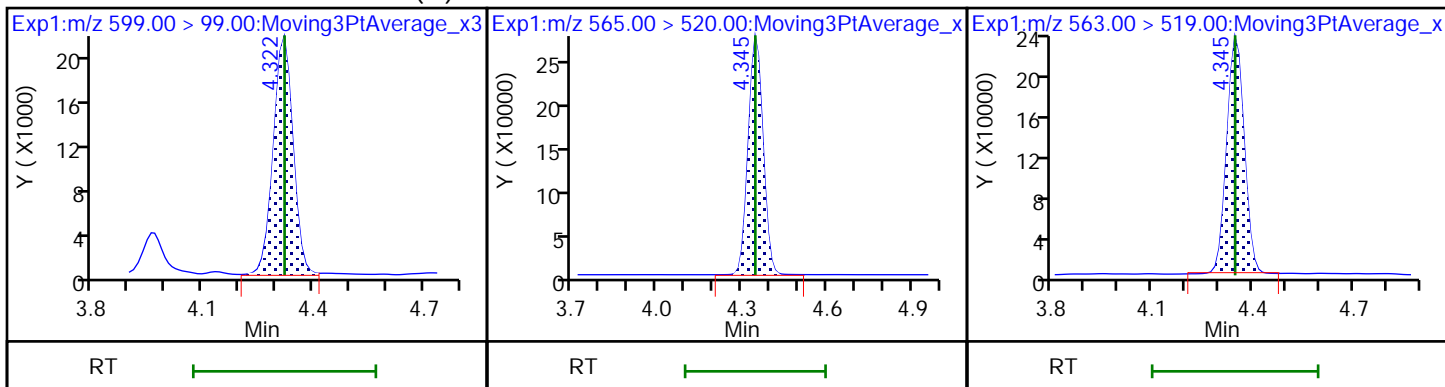
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

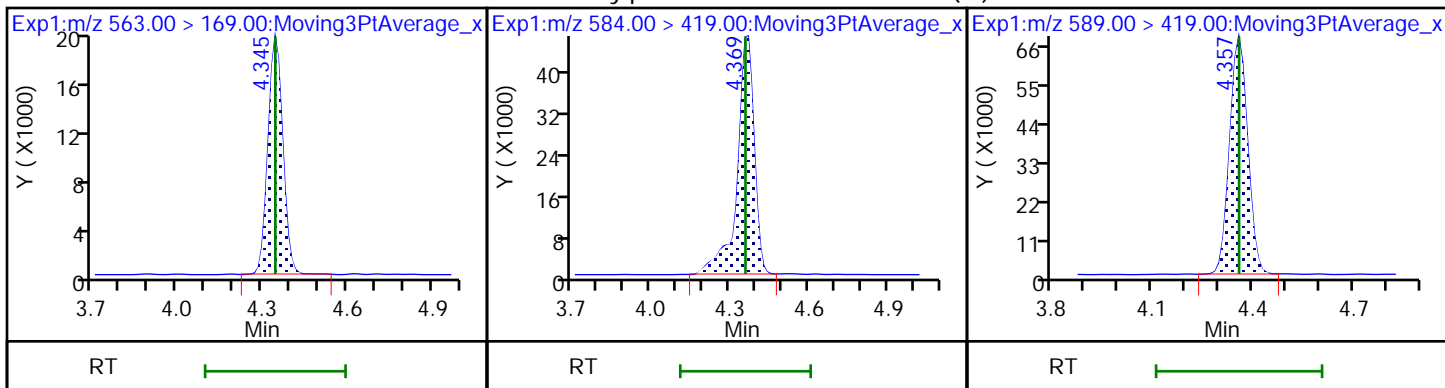
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

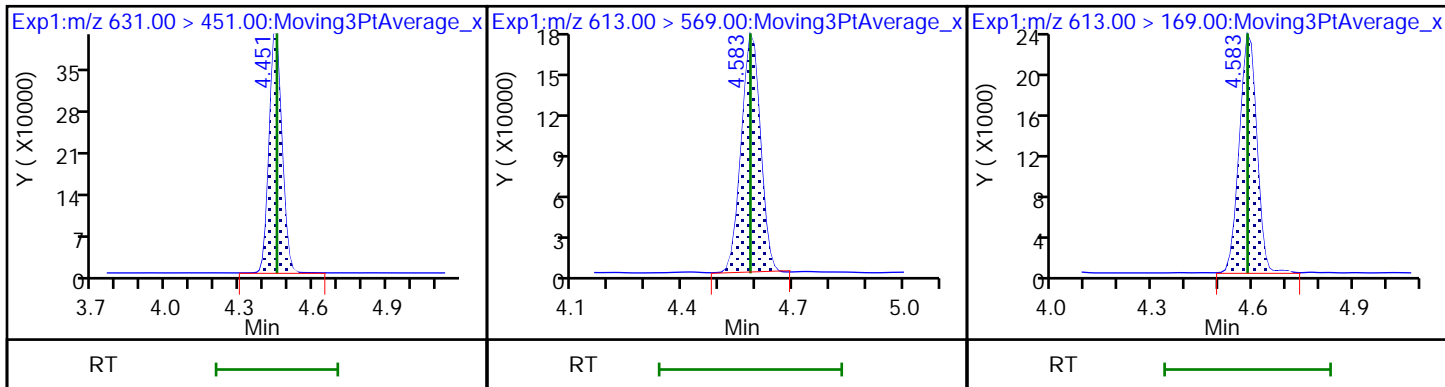
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

37 Perfluorododecanoic acid

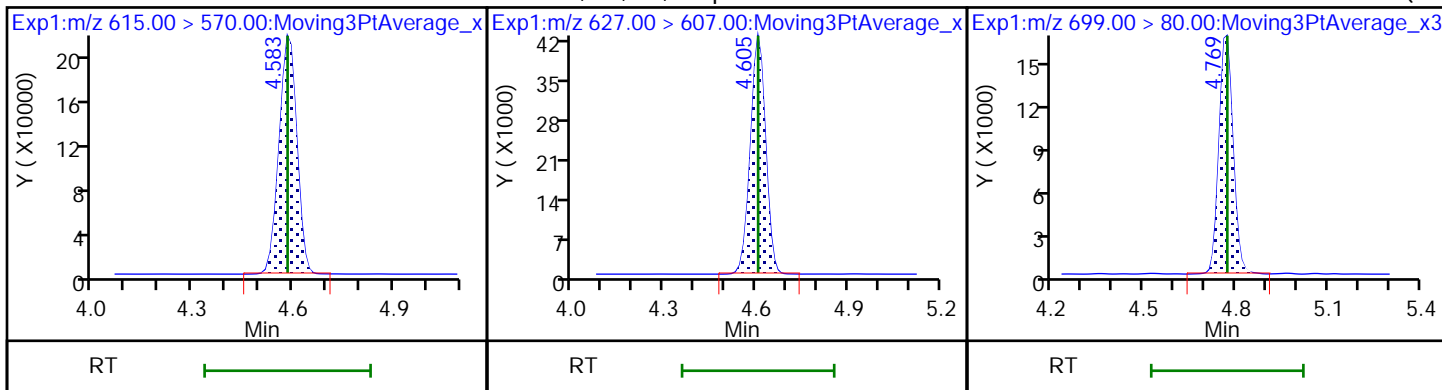
37 Perfluorododecanoic acid



D 36 13C2 PFDoA

74 1H,1H,2H,2H-perfluorododecanesul

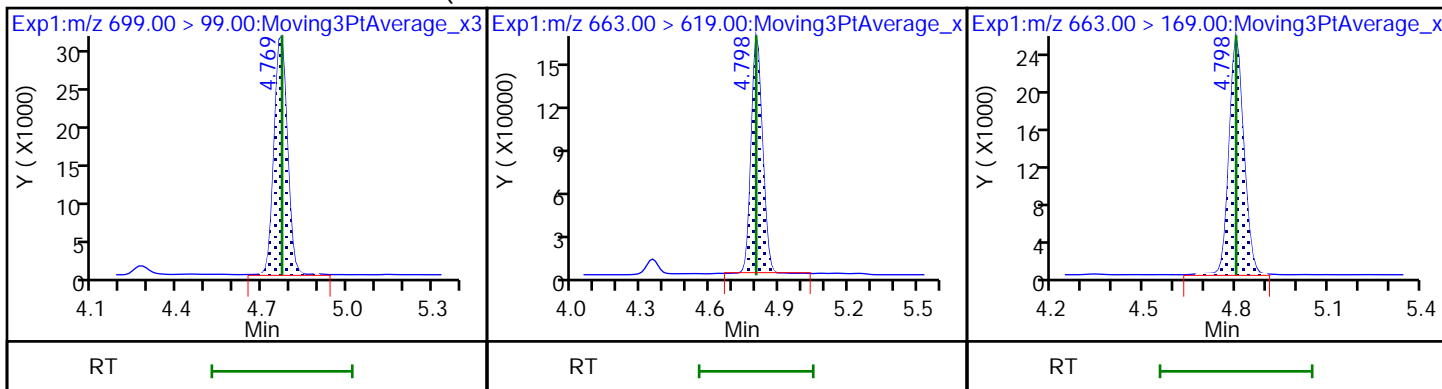
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

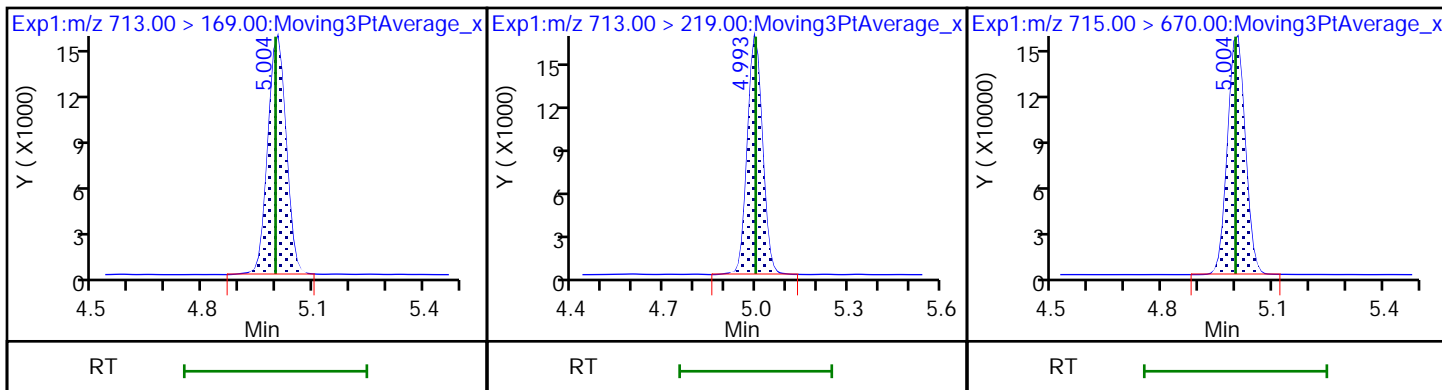
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

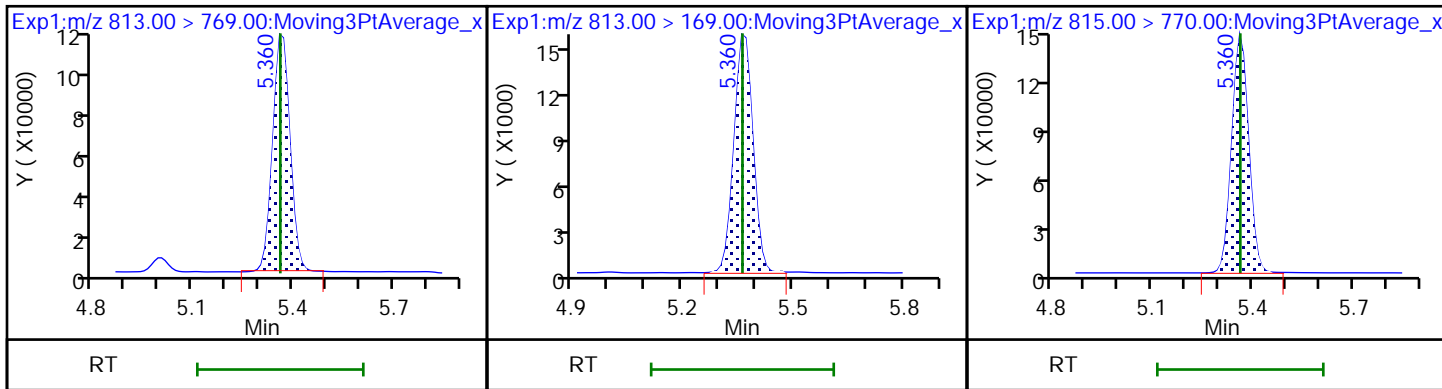
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

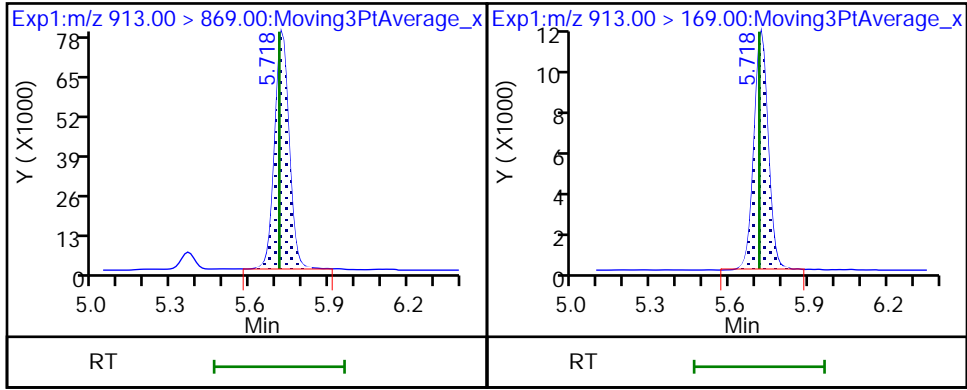
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

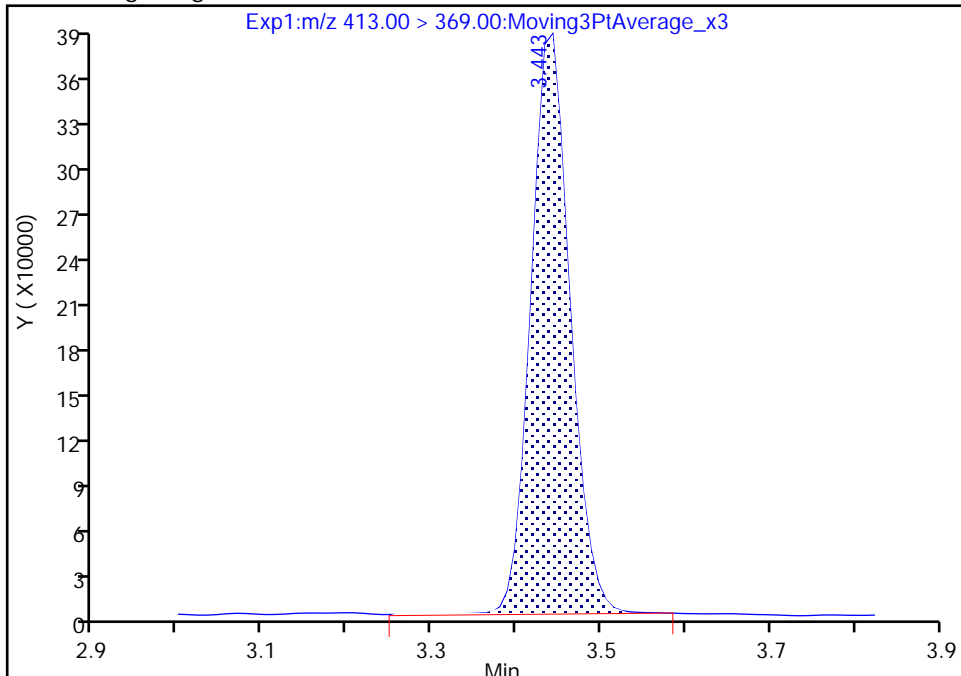
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Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

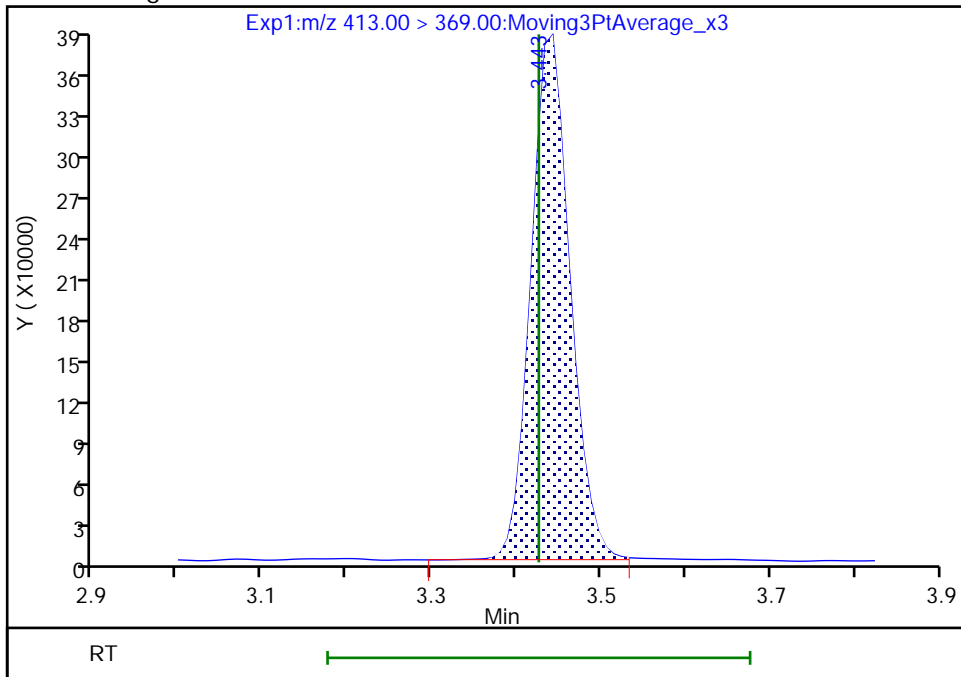
RT: 3.44
Area: 1236150
Amount: 1.050126
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1224523
Amount: 1.040249
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:32:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

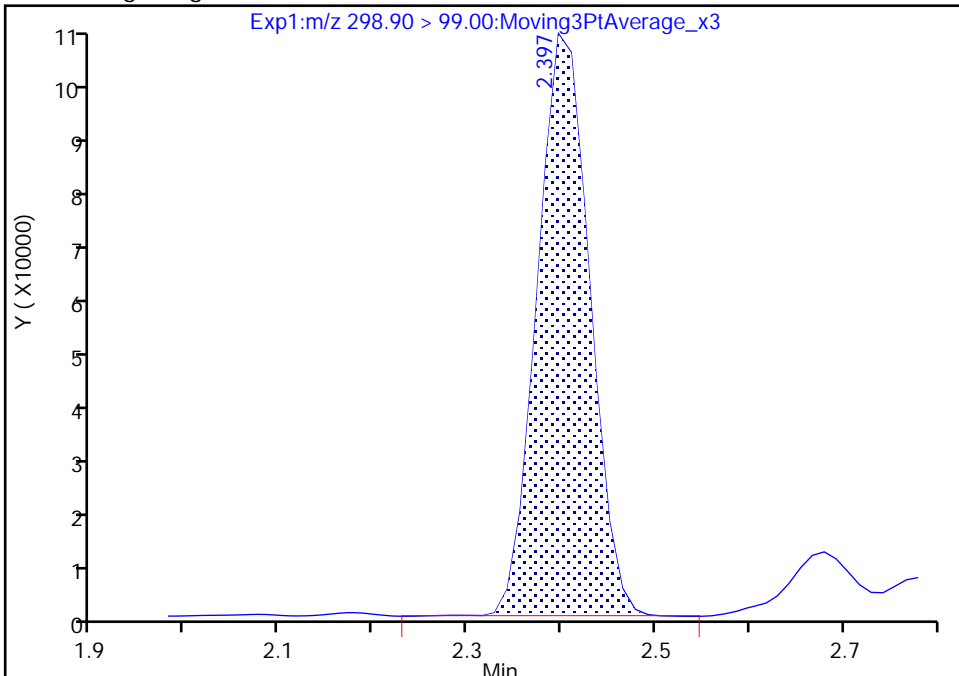
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A16.d
Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

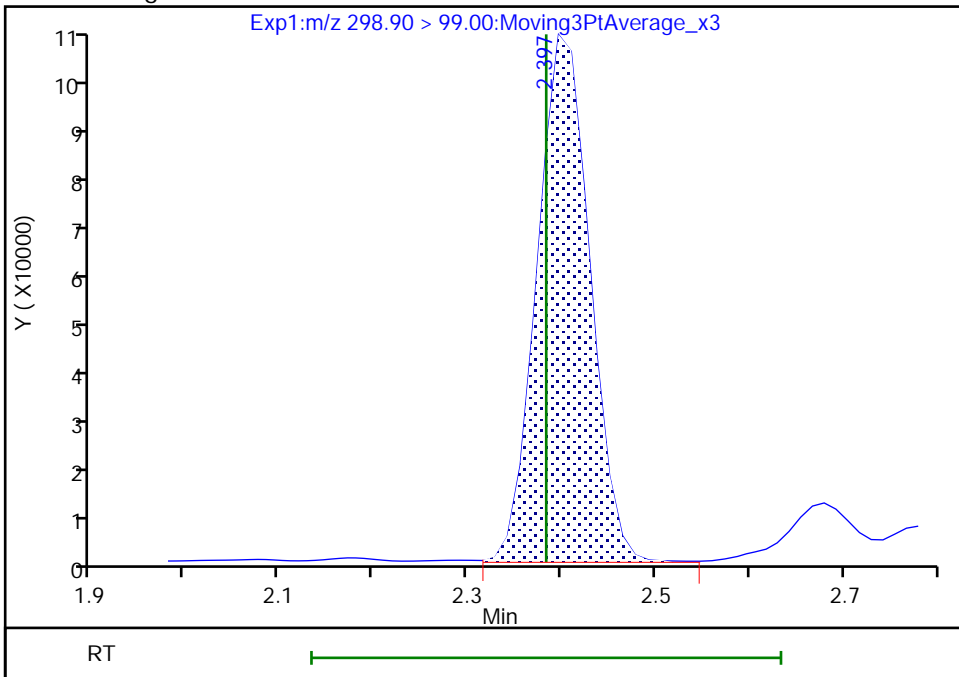
RT: 2.40
Area: 407379
Amount: 0.814567
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 406778
Amount: 0.814567
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:30:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

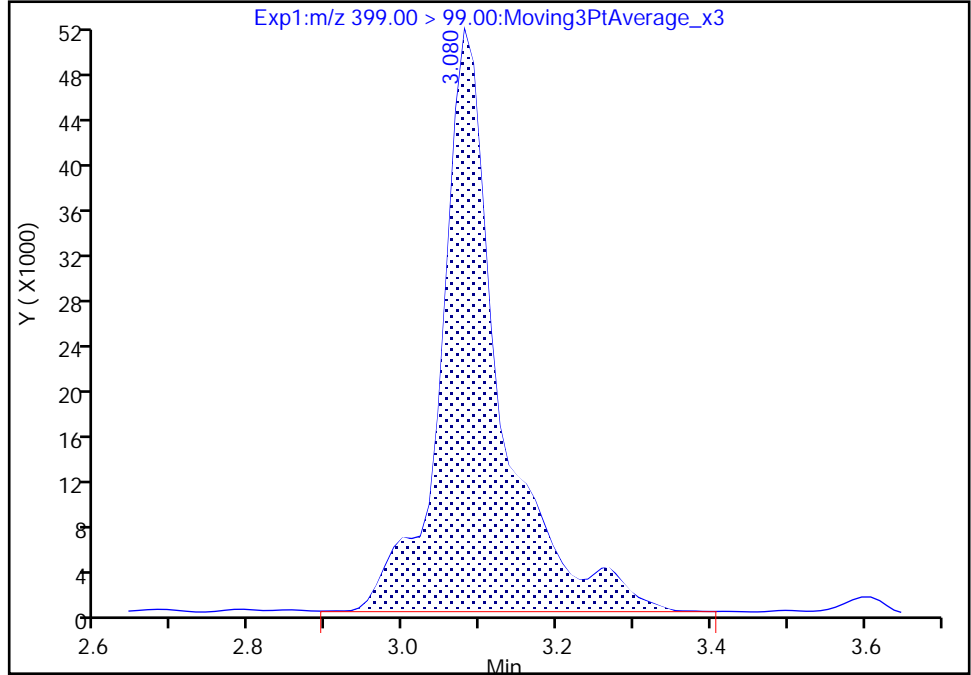
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A16.d
Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

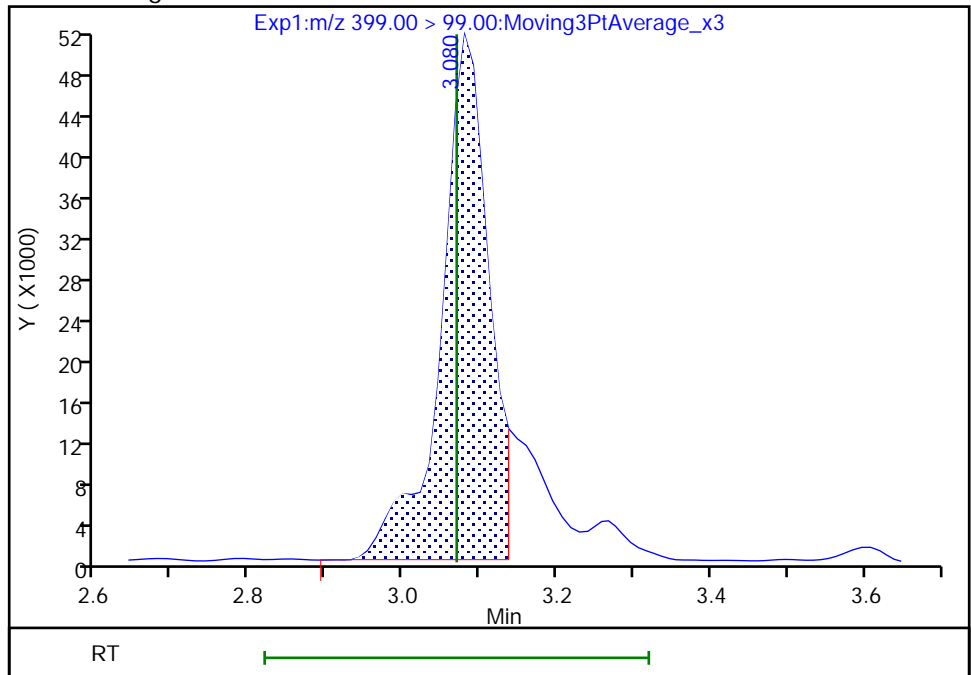
RT: 3.08
Area: 276882
Amount: 0.983510
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 219160
Amount: 0.983510
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:31:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

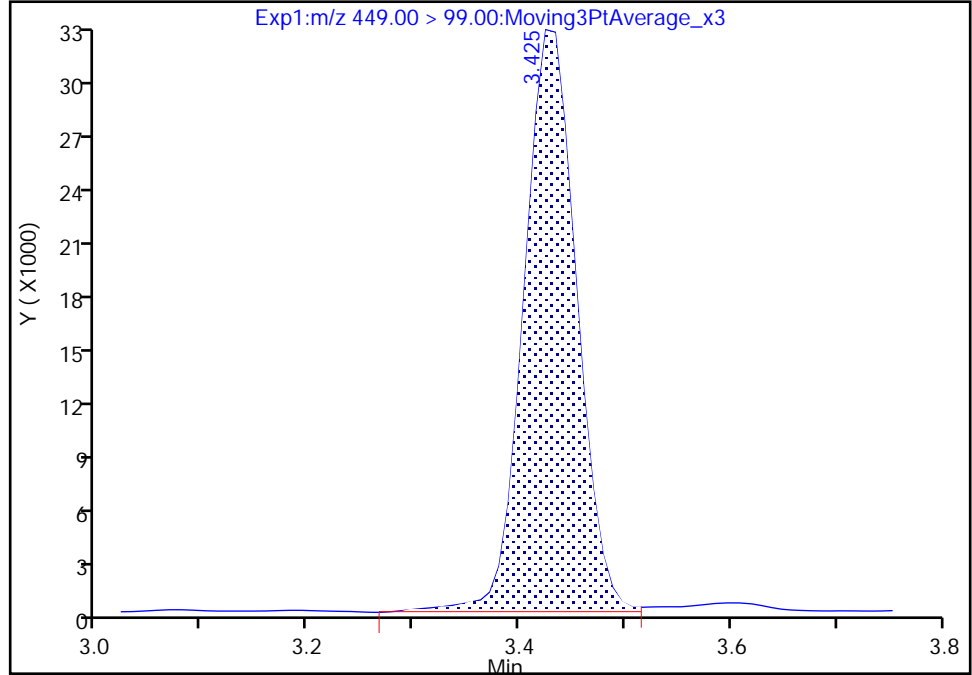
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Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

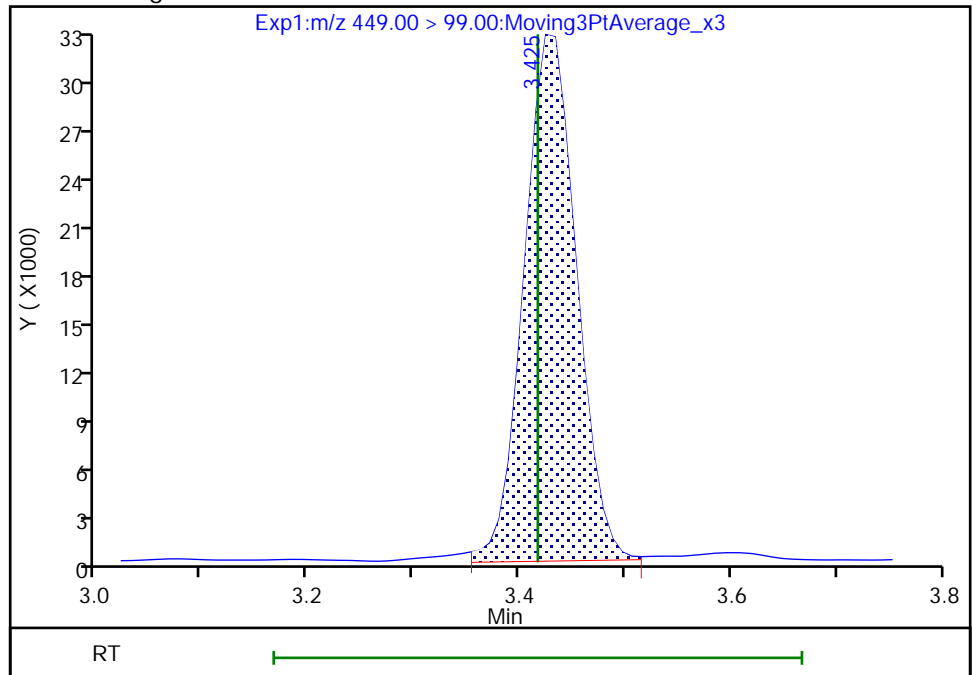
RT: 3.42
Area: 114261
Amount: 0.870962
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 113036
Amount: 0.870962
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:31:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

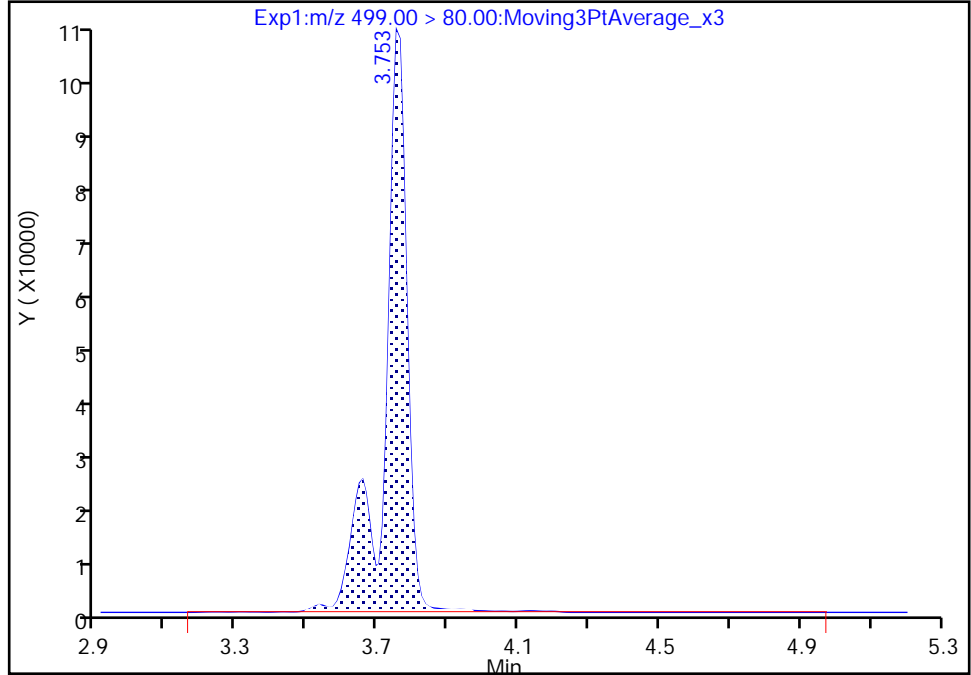
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Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

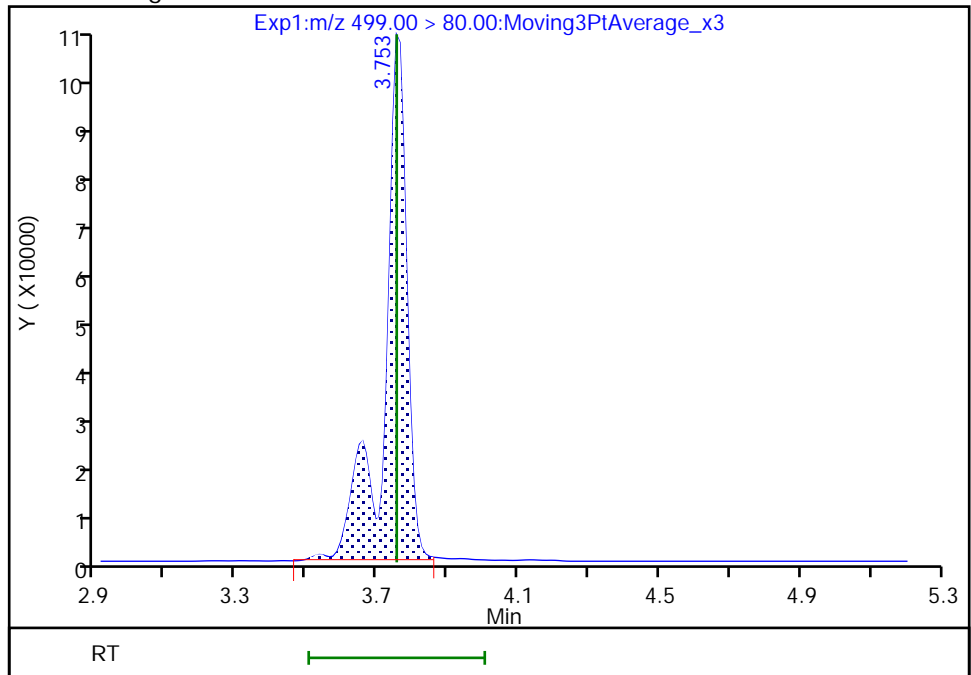
RT: 3.75
Area: 476104
Amount: 0.909129
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 465666
Amount: 0.889198
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:32:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

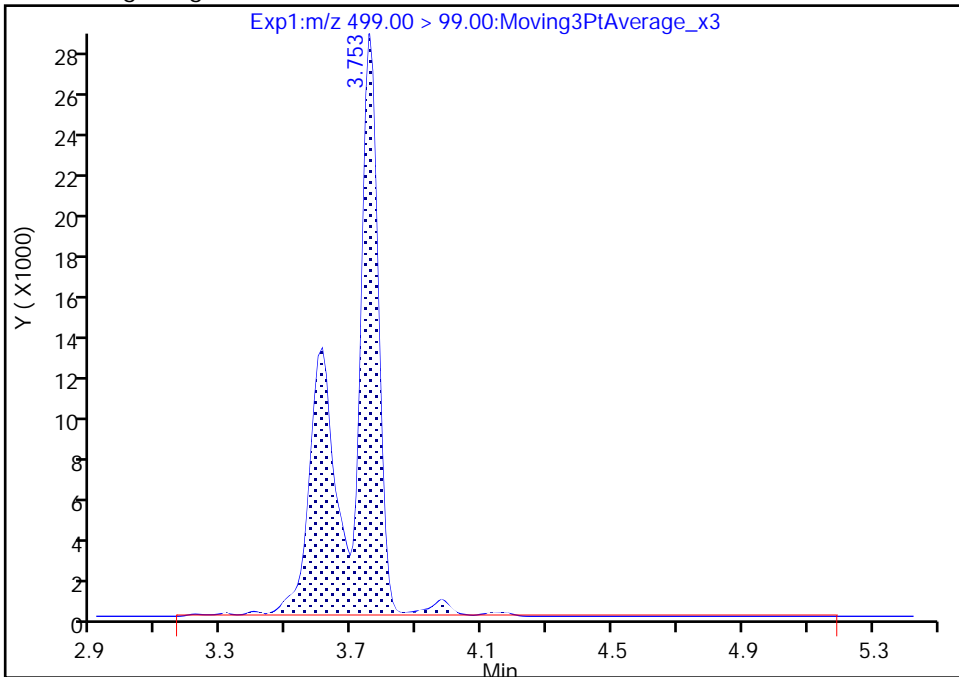
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Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

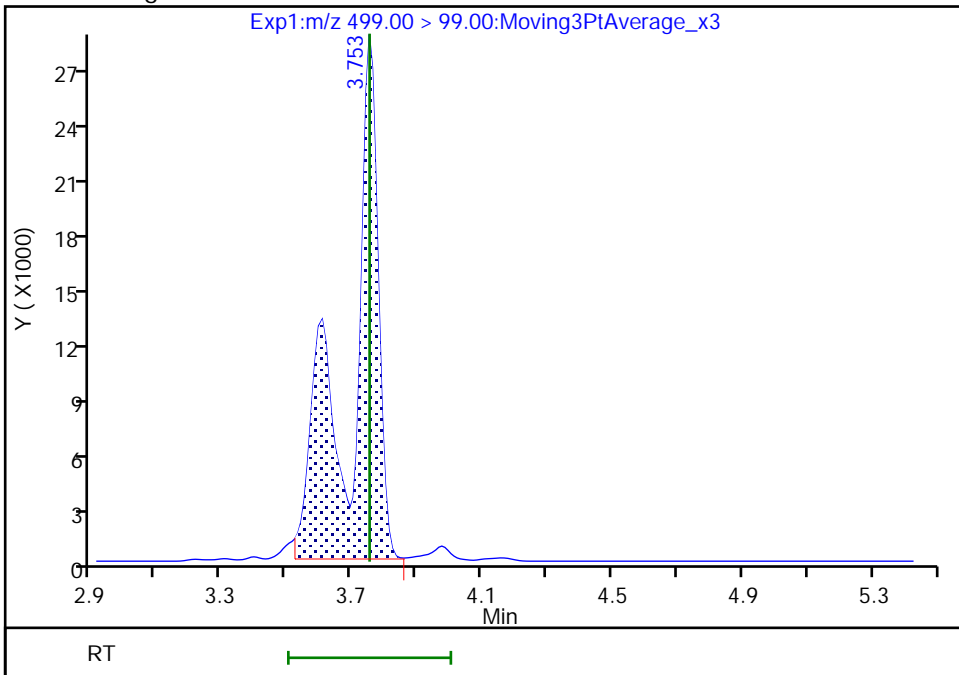
RT: 3.75
Area: 183759
Amount: 0.909129
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 172286
Amount: 0.889198
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:33:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

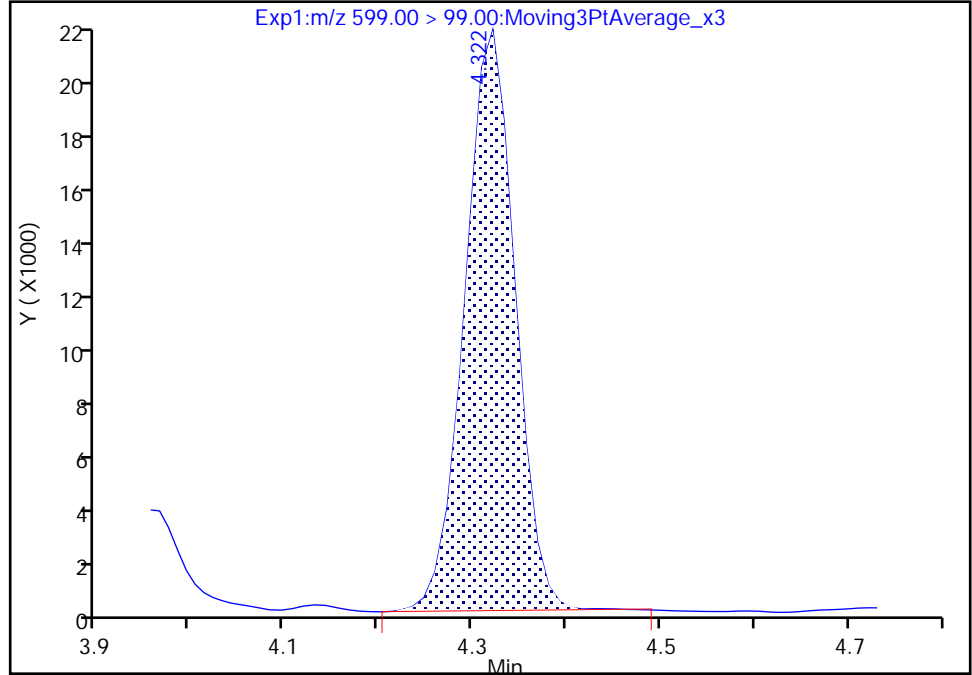
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A16.d
Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

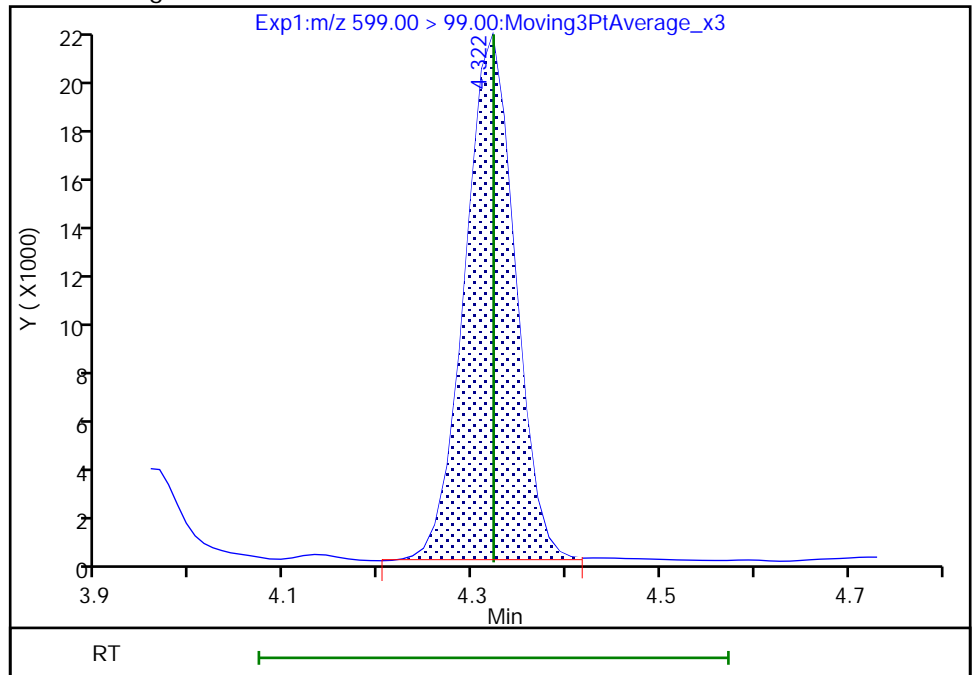
RT: 4.32
Area: 79309
Amount: 0.634315
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 79421
Amount: 0.634315
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:34:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

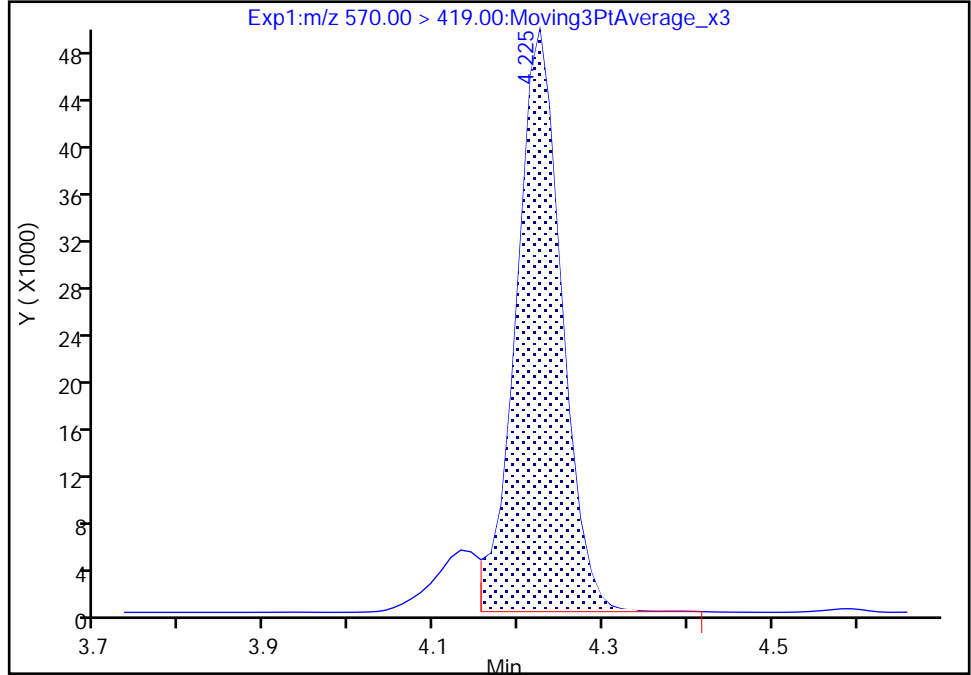
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A16.d
Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

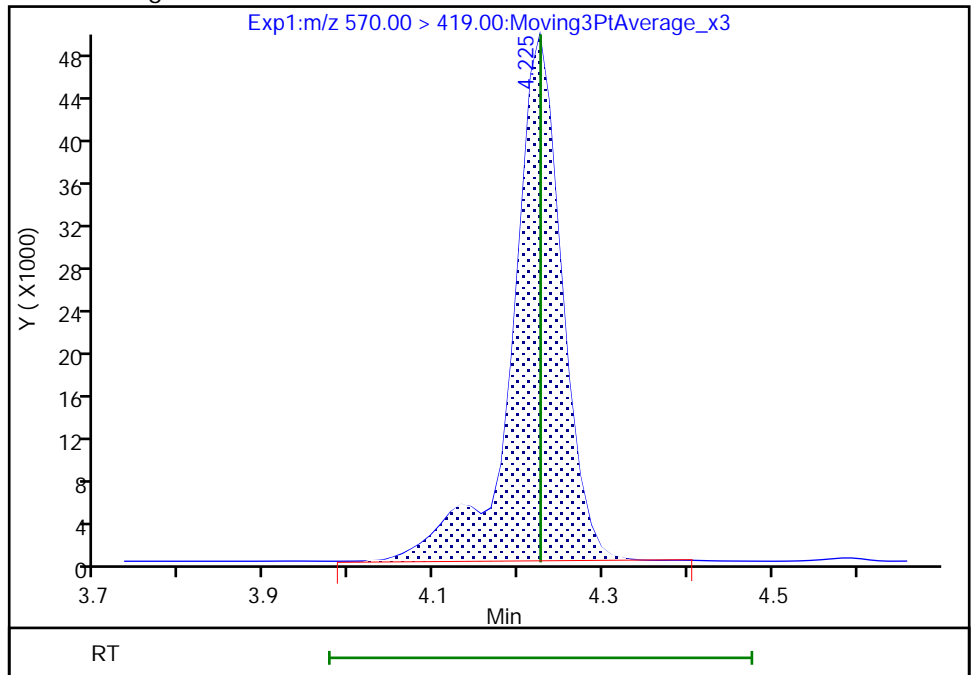
RT: 4.23
Area: 184837
Amount: 0.948165
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 203873
Amount: 1.045815
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:33:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 629 of 742

Eurofins Burlington

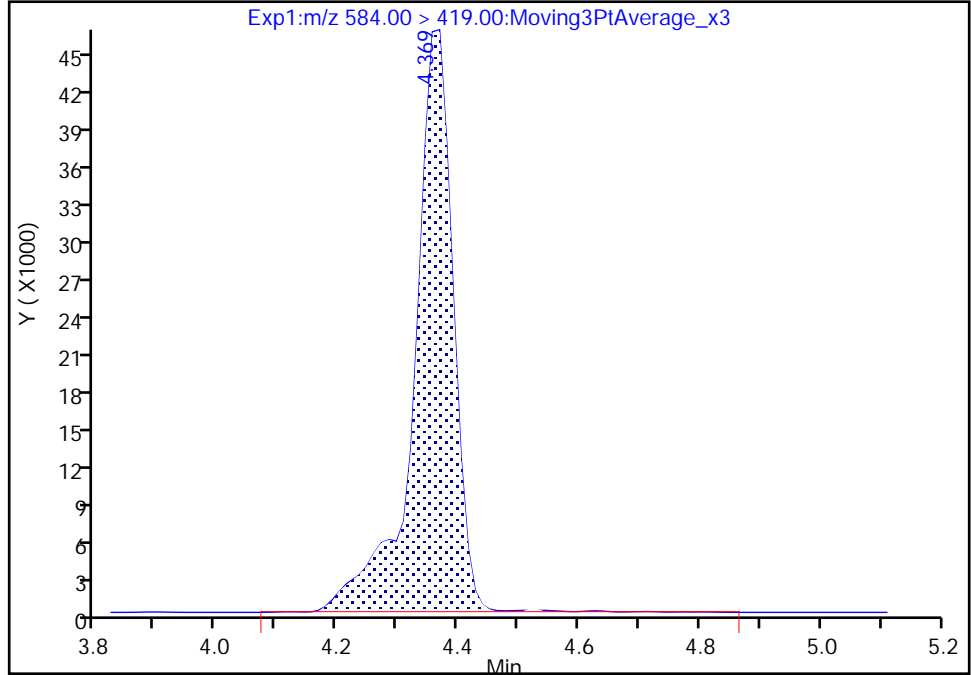
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Injection Date: 26-Jan-2023 21:48:54 Instrument ID: LC812
Lims ID: 460-273176-A-1-B MS
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

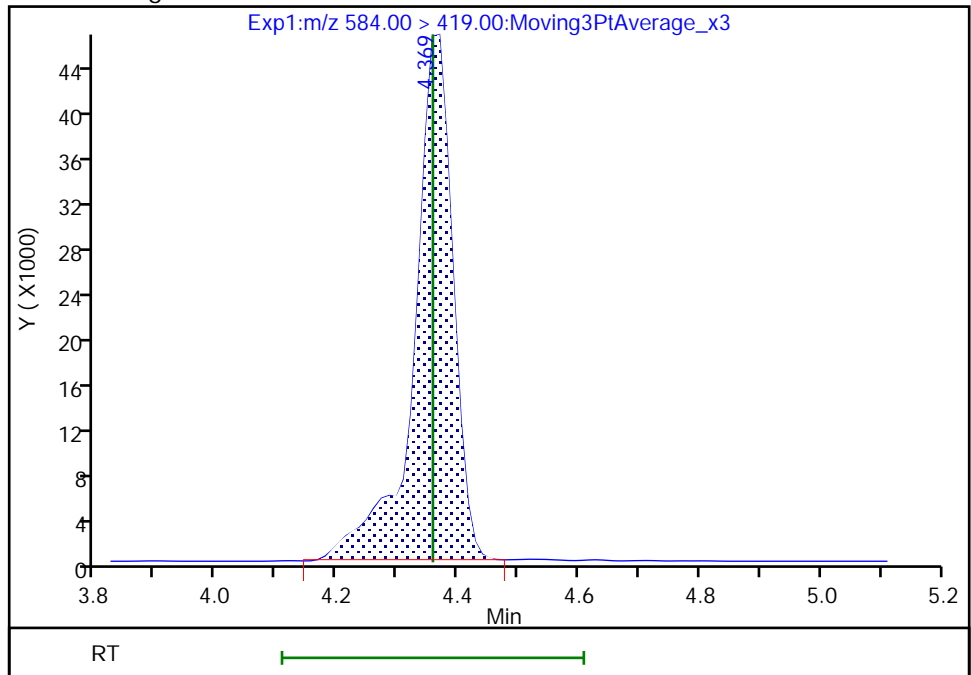
RT: 4.37
Area: 209592
Amount: 1.106252
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 207243
Amount: 1.093854
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:34:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-63_(15-15.5)P MS Lab Sample ID: 460-273176-4 MS
 Matrix: Solid Lab File ID: PA230126A22.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.24(g) Date Analyzed: 01/26/2023 22:37
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 53.5 % Solids: 46.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.045		1.03	0.68
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.971		0.41	0.11
307-24-4	Perfluorohexanoic acid (PFHxA)	4.293		0.41	0.094
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.263		0.41	0.080
335-67-1	Perfluorooctanoic acid (PFOA)	4.100		0.41	0.12
375-95-1	Perfluorononanoic acid (PFNA)	3.747		0.41	0.070
335-76-2	Perfluorodecanoic acid (PFDA)	4.208		0.41	0.057
2058-94-8	Perfluoroundecanoic acid (PFUnA)	3.827		0.41	0.055
307-55-1	Perfluorododecanoic acid (PFDoA)	4.400		0.41	0.051
72629-94-8	Perfluorotridecanoic acid (PFTriA)	3.590		0.41	0.051
376-06-7	Perfluorotetradecanoic acid (PFTeA)	4.397		0.41	0.053
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.909		0.41	0.068
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.820		0.41	0.084
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	3.337		0.41	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.585		0.41	0.23
335-77-3	Perfluorodecanesulfonic acid (PFDS)	3.386		0.41	0.039
754-91-6	Perfluorooctanesulfonamide (FOSA)	4.096		0.41	0.070
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.597		4.10	0.23
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.009	J	4.10	0.17
27619-97-2	6:2 FTS	4.148		4.10	0.12
39108-34-4	8:2 FTS	4.369		4.10	0.076

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-63_(15-15.5)P MS Lab Sample ID: 460-273176-4 MS
 Matrix: Solid Lab File ID: PA230126A22.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.24(g) Date Analyzed: 01/26/2023 22:37
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 53.5 % Solids: 46.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	62		50-150
STL01892	13C4 PFHpA	75		50-150
STL00990	13C4 PFOA	78		50-150
STL00991	13C4 PFOS	81		50-150
STL00995	13C5 PFNA	83		50-150
STL00992	13C4 PFBA	79		50-150
STL00993	13C2 PFHxA	90		50-150
STL00996	13C2 PFDA	79		50-150
STL00997	13C2 PFUnA	86		50-150
STL00998	13C2 PFDoA	77		50-150
STL01056	13C8 FOSA	62		50-150
STL01893	13C5 PFPeA	83		50-150
STL02116	13C2 PFTeDA	66		50-150
STL02118	d3-NMeFOSAA	89		50-150
STL02117	d5-NEtFOSAA	115		50-150
STL02279	M2-6:2 FTS	96		50-150
STL02280	M2-8:2 FTS	118		50-150
STL02337	13C3 PFBS	69		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
 Lims ID: 460-273176-A-4-B MS
 Client ID: BCS-09-63_(15-15.5)P
 Sample Type: MS
 Inject. Date: 26-Jan-2023 22:37:50 ALS Bottle#: 19 Worklist Smp#: 22
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-4-B MS
 Misc. Info.: 200-0054135-022 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 30-Jan-2023 16:20:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: SJ4N Date: 30-Jan-2023 16:31:11

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.609	1498567	0.9898	79.2	7481	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.000	1168888	0.9857		98.6	75.9	M
D 3 13C5 PFPeA	267.90 > 223.00	2.369	2.370	-0.001	0.692	1274565	1.04	83.3	2544	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.006	1130162	0.9678		96.8	15.8	M
D 47 13C3 PFBS	301.90 > 80.00	2.383	2.384	-0.001	0.696	1082887	0.8060	69.3	45262	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.397	2.384	0.013	1.006	950648	0.9526	Target=2.10	108	129	
298.90 > 99.00	2.397	2.384	0.013	1.006	477709		1.99(1.05-3.15)		13.9	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.680	2.669	0.011	1.000	331588	1.02	110	113	
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.782	127840	1.18	101	38.8	
D 7 13C2 PFHxA	315.00 > 270.00	2.705	2.694	0.011	0.790	1426360	1.12	89.7	9360	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.717	2.706	0.011	1.005	1257719	1.05	Target=13.16	105	88.7	
313.00 > 119.00	2.717	2.706	0.011	1.005	82624		15.22(6.58-19.74)		55.6	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.717	2.706	0.011	0.886	822886	1.09	Target=2.90	117	137
349.00 > 99.00	2.717	2.706	0.011	0.886	293419		2.80(1.45-4.35)		134	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.817	2.806	0.011	1.000	184488	1.03	103	3666	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.817	2.806	0.011	0.823	224029	1.02		81.3	2526	
D 11 18O2 PFHxS										
403.00 > 84.00	3.068	3.069	-0.001	0.896	718476	0.7349		62.2	5715	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.068	3.069	-0.001	1.000	620762	0.9308	Target=3.18	102	92.3	M
399.00 > 99.00	3.068	3.069	-0.001	1.000	261529		2.37(1.59-4.77)	10.6		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.068	3.069	-0.001	0.896	1195116	0.9387		75.1	9628	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.068	3.069	-0.001	1.000	1057696	1.04	Target=4.10	104	100	M
363.00 > 169.00	3.068	3.069	-0.001	1.000	265821		3.98(2.05-6.16)	583		
77 DONA										
377.00 > 251.00	3.103	3.104	-0.002	0.831	2604621	0.9387	Target=2.96	99.6	2091	
377.00 > 85.00	3.103	3.104	-0.002	0.831	833655		3.12(1.48-4.44)	1372		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.416	3.417	-0.001	0.997	174871	1.13		95.6	71.2	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.416	3.417	-0.001	1.000	340857	1.01		107	399	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.407	3.417	-0.010	0.913	572653	0.8133	Target=4.59	85.4	133	M
449.00 > 99.00	3.407	3.417	-0.010	0.913	138149		4.15(2.30-6.89)	51.3		M
D 14 13C4 PFOA										
417.00 > 372.00	3.425	3.426	-0.001	1.000	1313030	0.9734		77.9	6957	
* 62 13C2 PFOA										
415.00 > 370.00	3.425	3.426	-0.001		1646021	1.25			8429	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.425	3.426	-0.001	1.000	1142112	1.00	Target=2.71	99.9	82.6	M
413.00 > 169.00	3.425	3.426	-0.001	1.000	378363		3.02(1.36-4.07)	634		M
D 18 13C4 PFOS										
503.00 > 80.00	3.733	3.754	-0.021	1.090	578249	0.9728		81.4	145	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.743	3.754	-0.011	1.003	513592	0.8737	Target=4.23	94.1	129	M
499.00 > 99.00	3.733	3.754	-0.021	1.000	223802		2.29(2.11-6.34)	45.3		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.753	3.774	-0.021	1.000	1020352	0.9131	Target=8.78	91.3	158	
463.00 > 169.00	3.753	3.774	-0.021	1.000	142589		7.16(4.39-13.17)	206		
D 19 13C5 PFNA										
468.00 > 423.00	3.753	3.774	-0.021	1.096	1367357	1.04		83.2	5412	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.909	3.922	-0.013	1.047	1187430	0.8462		90.8	3151	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.033	4.043	-0.010	1.080	397054	0.8133	Target=2.37	84.7	197	M
549.00 > 99.00	4.033	4.043	-0.010	1.080	156964		2.53(1.18-3.55)	45.6		M
D 23 13C2 PFDA										
515.00 > 470.00	4.052	4.074	-0.022	1.183	1324700	0.9827		78.6	5592	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.062	4.074	-0.012	1.003	1162021	1.03	Target=11.13	103	204	
513.00 > 169.00	4.052	4.074	-0.022	1.000	109347		10.63(5.56-16.69)		319	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.062	4.085	-0.023	1.186	273636	1.42		118	45.5	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.062	4.085	-0.023	1.000	441356	1.06		111	11052	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.120	4.144	-0.024	1.000	679181	1.00		99.8	1912	
D 21 13C8 FOSA										
506.00 > 78.00	4.120	4.144	-0.024	1.203	845748	0.7719		61.8	3721	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.203	4.226	-0.023	1.227	295890	1.12		89.3	828	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.203	4.226	-0.023	1.000	239075	1.12		112	1026	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.298	4.322	-0.024	1.151	300340	0.8252	Target=2.45	85.6	142	M
599.00 > 99.00	4.298	4.322	-0.024	1.151	124041		2.42(1.23-3.68)		52.7	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.333	4.346	-0.013	1.265	1250640	1.07		86.0	4823	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.333	4.346	-0.013	1.000	1018484	0.9325	Target=10.33	93.2	266	
563.00 > 169.00	4.333	4.346	-0.013	1.000	91563		11.12(5.17-15.50)		393	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.345	4.358	-0.013	1.003	266575	0.9770		97.7	1323	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.333	4.358	-0.025	1.265	367102	1.44		115	1021	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.428	4.452	-0.024	1.186	1686315	0.7765		82.4	3502	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.571	4.584	-0.013	1.000	984982	1.07	Target=8.10	107	183	
613.00 > 169.00	4.571	4.584	-0.013	1.000	125566		7.84(4.05-12.15)		784	
D 36 13C2 PFDaA										
615.00 > 570.00	4.571	4.584	-0.013	1.335	1127822	0.9667		77.3	5848	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.594	4.606	-0.012	1.131	295064	1.13		117	6247	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.750	4.770	-0.020	1.272	102496	0.6933	Target=0.51	71.6	128	
699.00 > 99.00	4.750	4.770	-0.020	1.272	193005		0.53(0.26-0.77)		448	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.789	4.799	-0.011	1.048	802698	0.8749	Target=6.06	87.5	155	
663.00 > 169.00	4.789	4.799	-0.011	1.048	136292		5.89(3.03-9.09)		1017	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.993	4.998	-0.005	1.002	88931	1.07	Target=0.83	107	838	
713.00 > 219.00	4.983	4.998	-0.015	1.000	98692		0.90(0.42-1.25)		1409	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.983	4.998	-0.015	1.455	830955	0.8281		66.2	4766	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.349	5.362	-0.013	1.000	712026	1.12	Target=6.74	112	232	
813.00 > 169.00	5.349	5.362	-0.013	1.000	93467		7.62(3.37-10.11)		736	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.349	5.362	-0.013	1.562	859389	0.6988		55.9	5459	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.709	5.711	-0.002	1.067	516301	0.9285	Target=6.99	92.8	233	
913.00 > 169.00	5.709	5.711	-0.002	1.067	71401		7.23(3.50-10.49)		535	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d

Injection Date: 26-Jan-2023 22:37:50

Instrument ID: LC812

Lims ID: 460-273176-A-4-B MS

Client ID: BCS-09-63_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 19

Worklist Smp#: 22

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

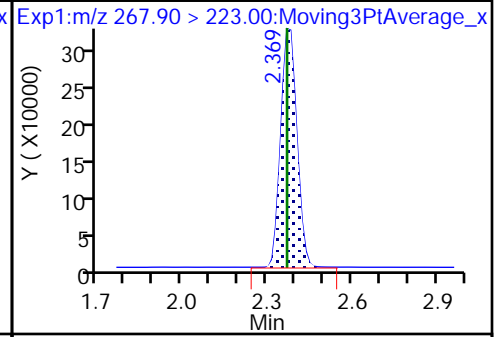
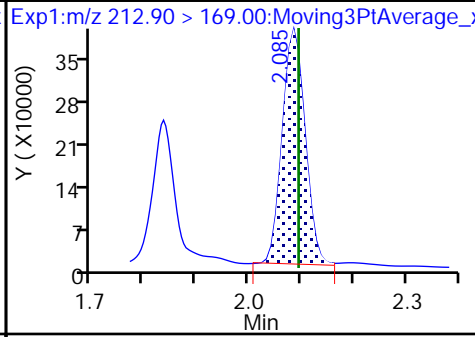
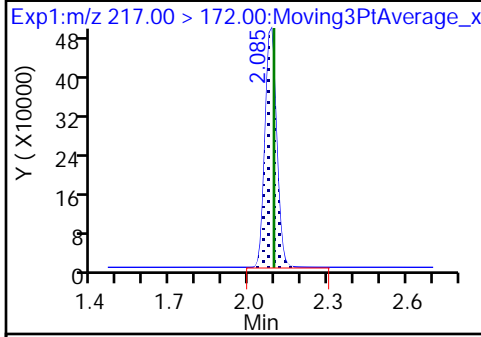
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

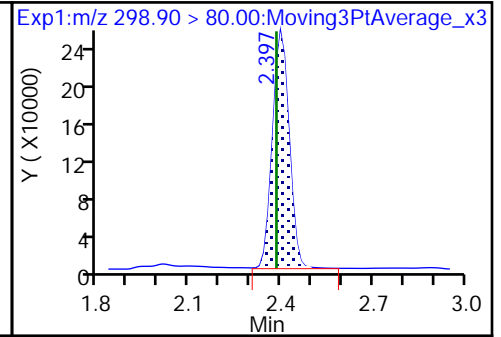
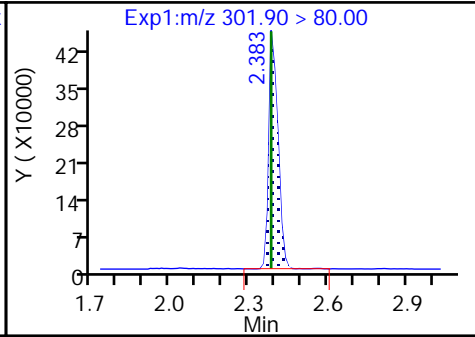
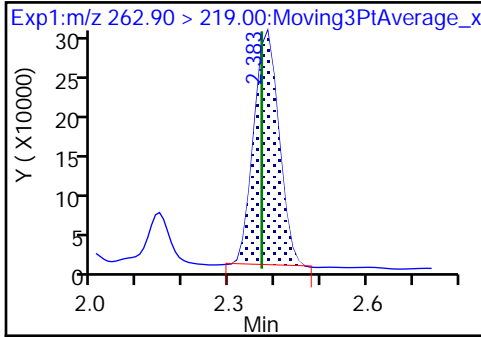
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

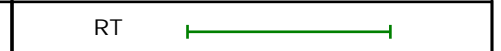
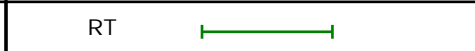
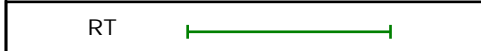
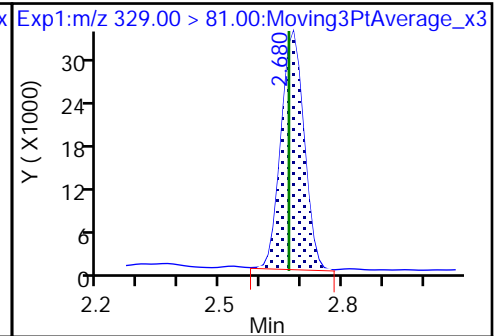
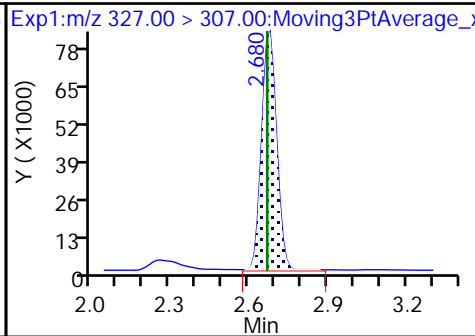
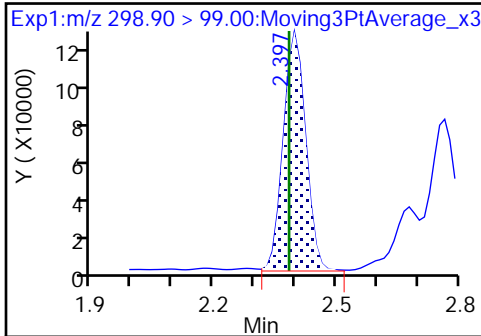
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

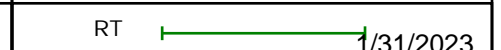
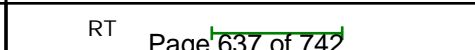
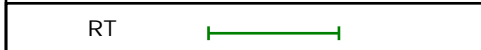
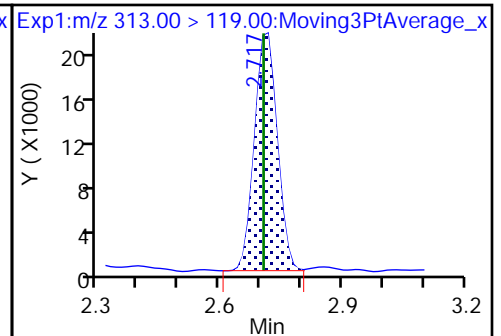
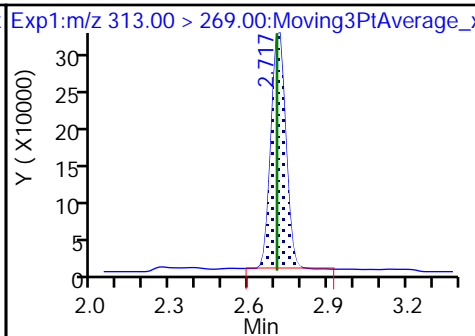
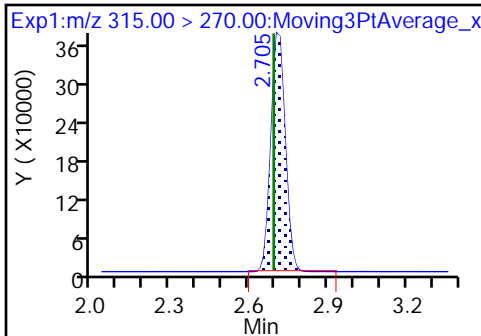
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

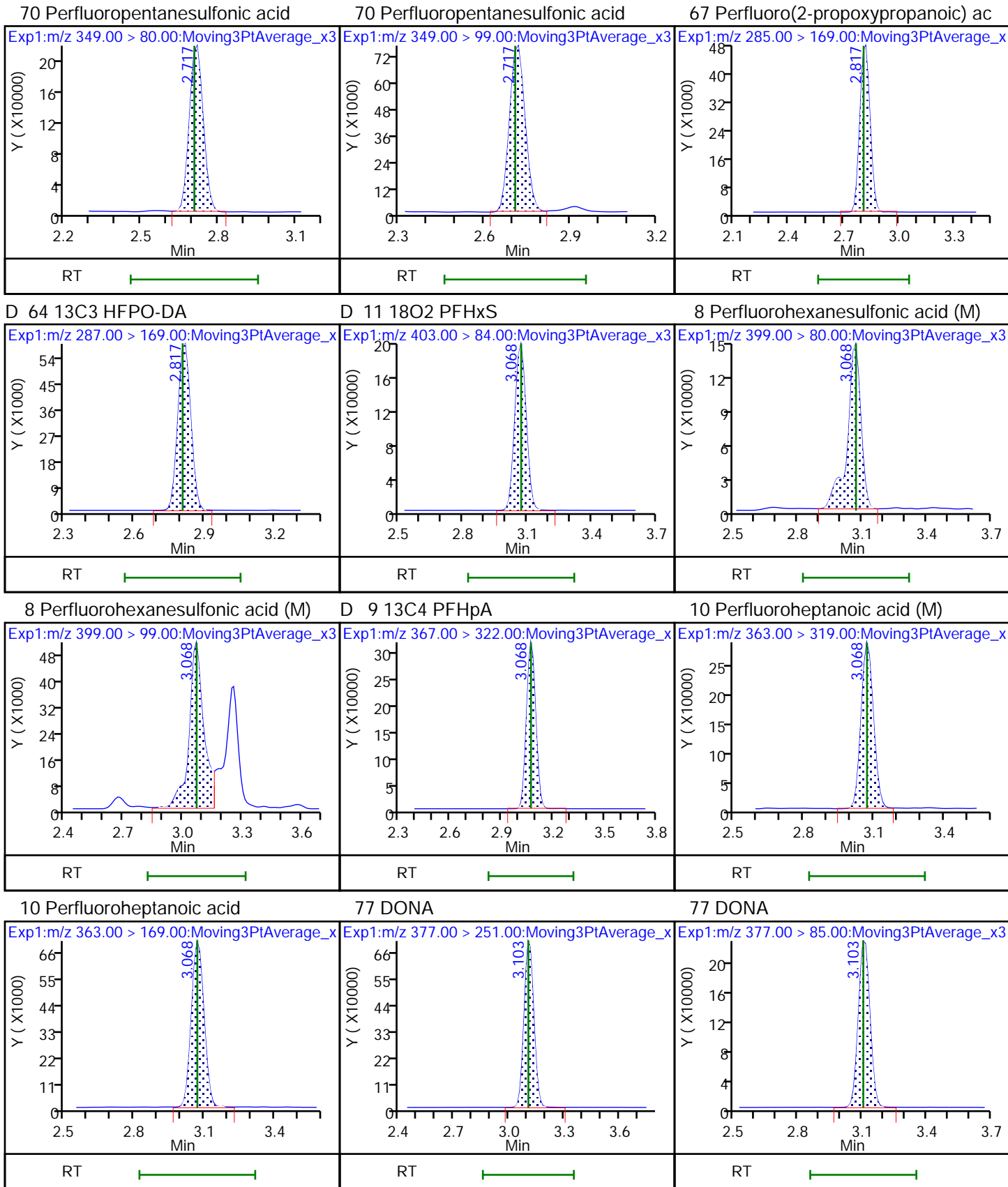


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid (M)

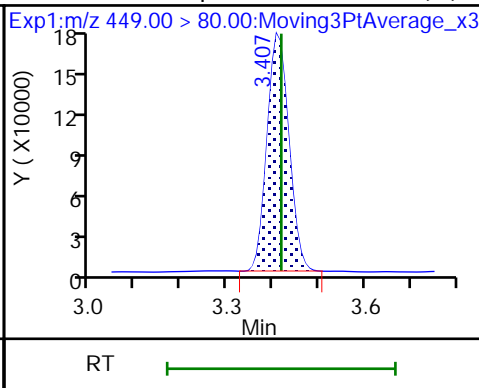
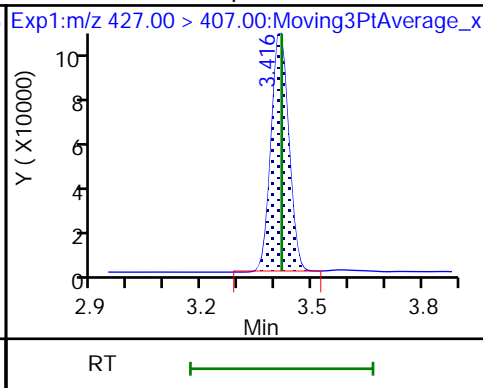
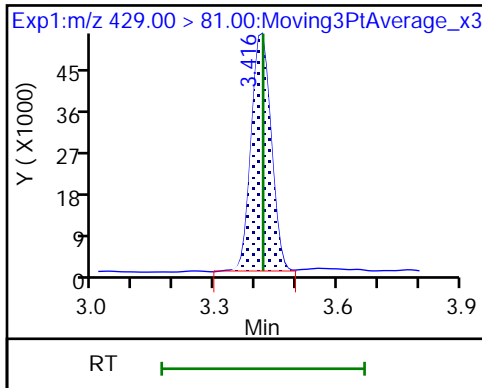




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

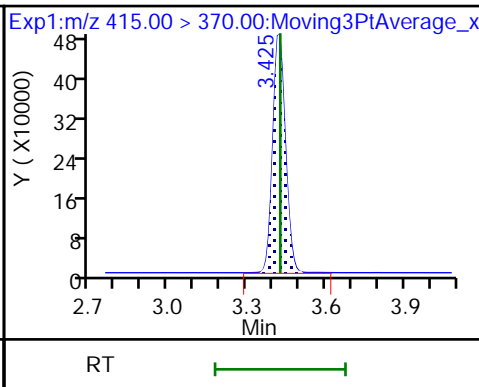
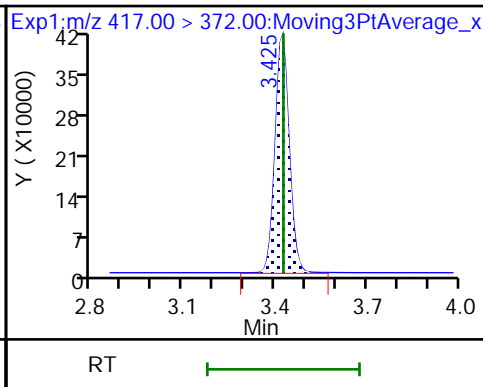
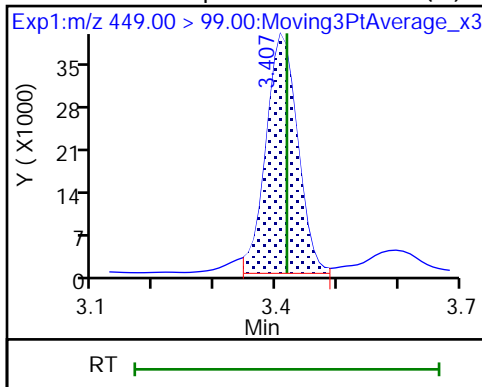
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

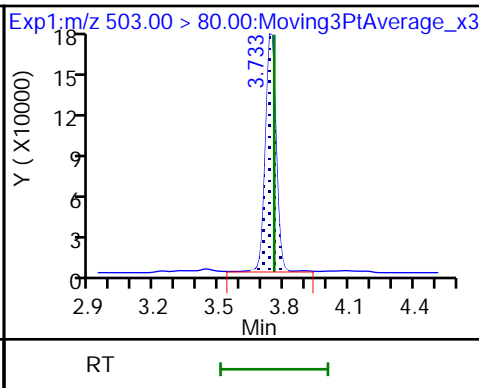
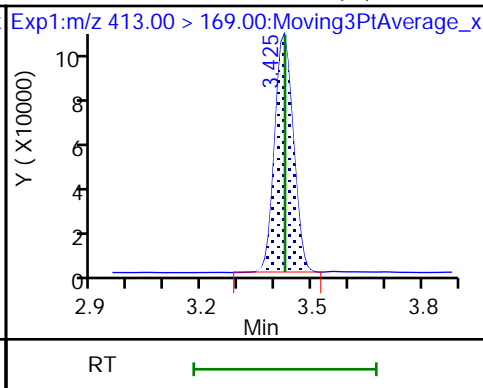
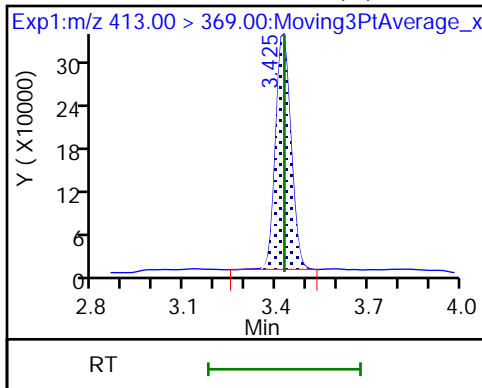
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

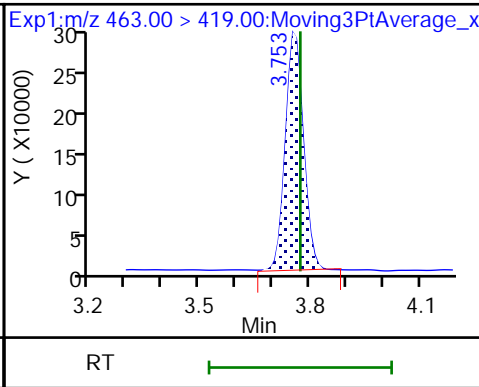
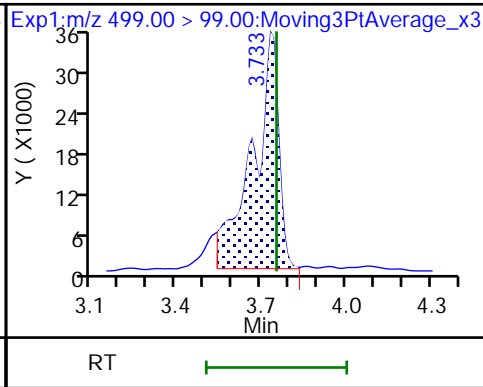
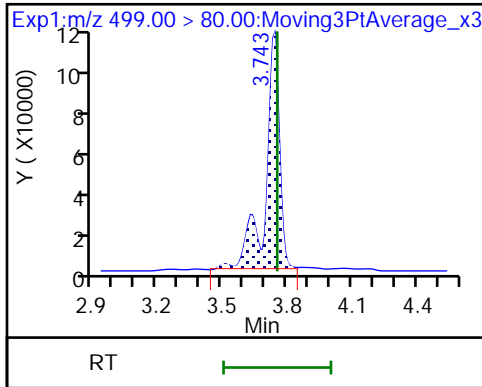
D 18 13C4 PFOS

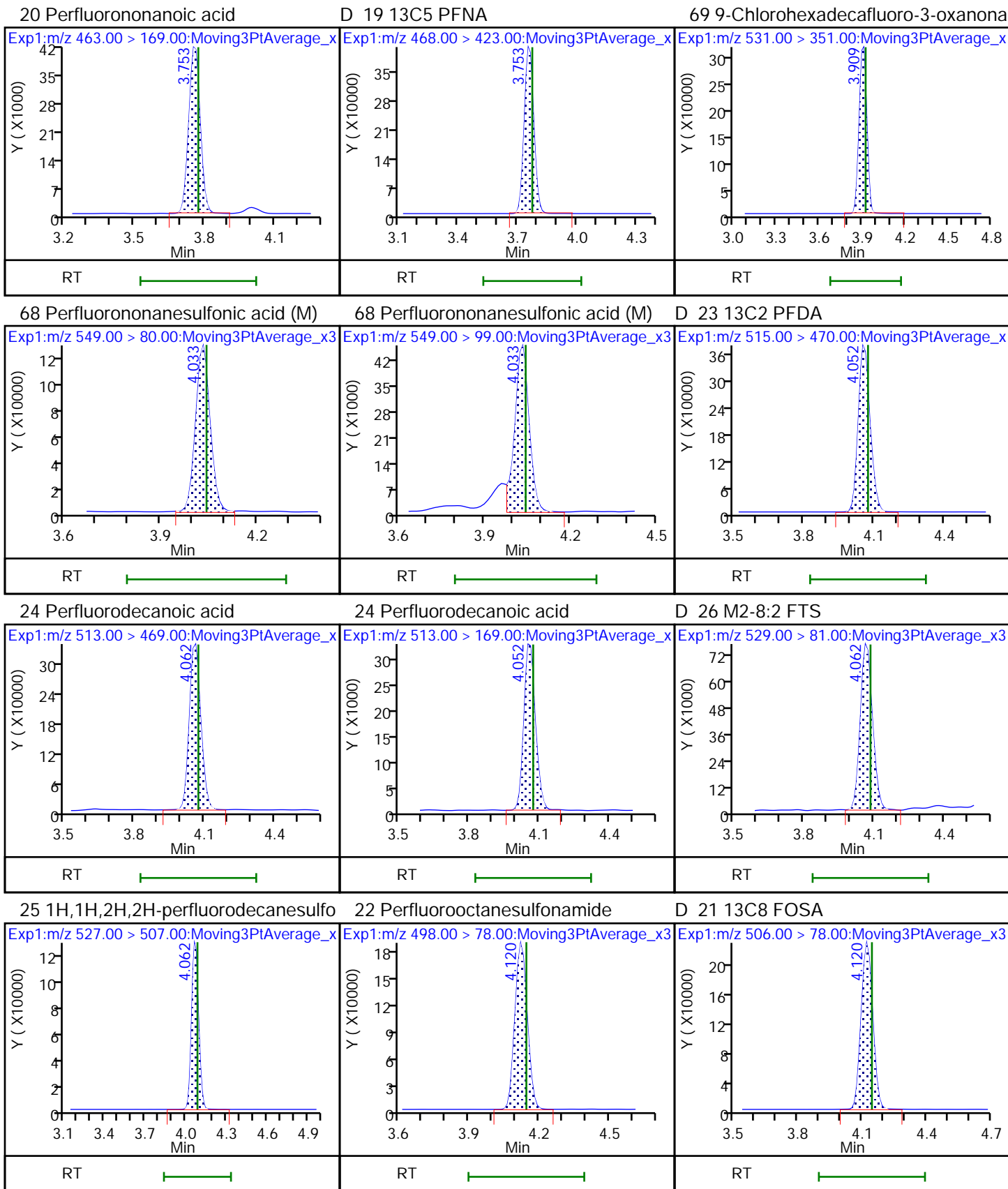


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

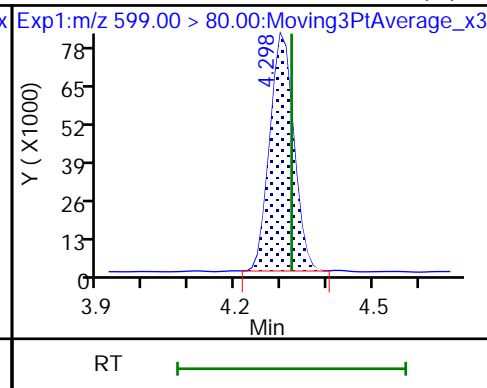
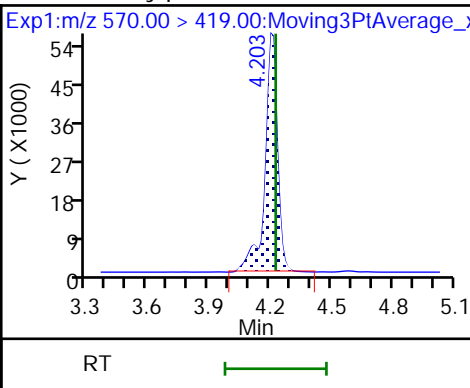
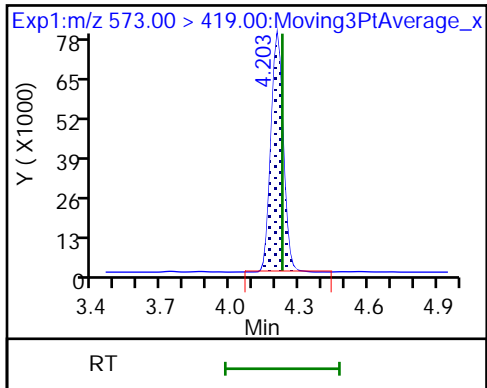




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

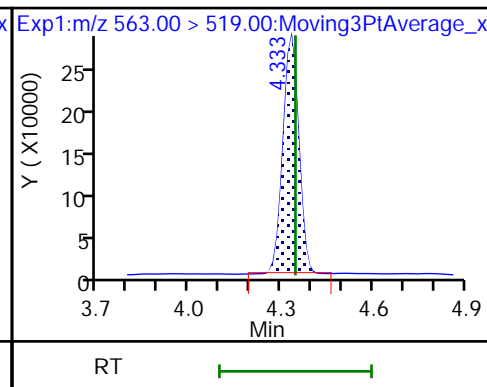
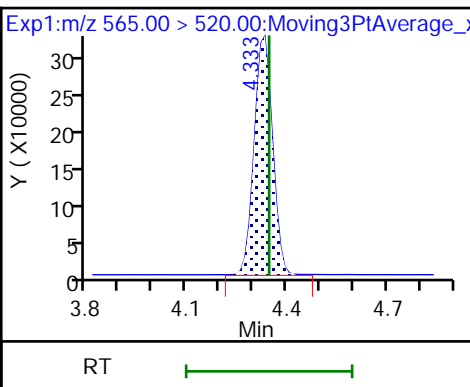
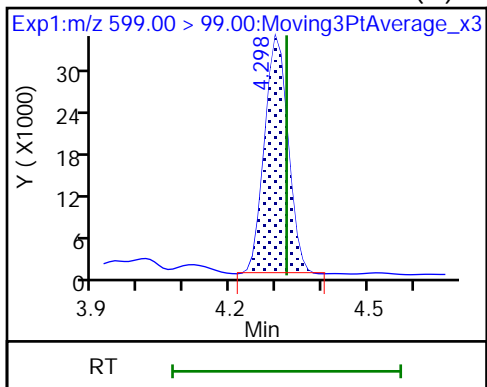
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

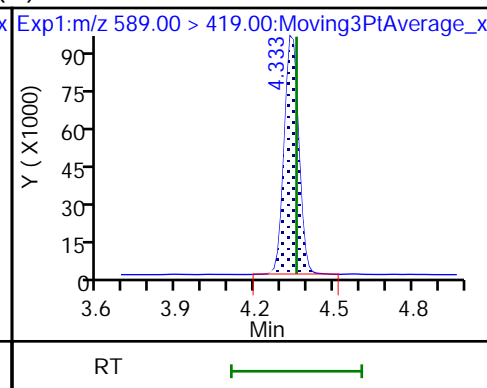
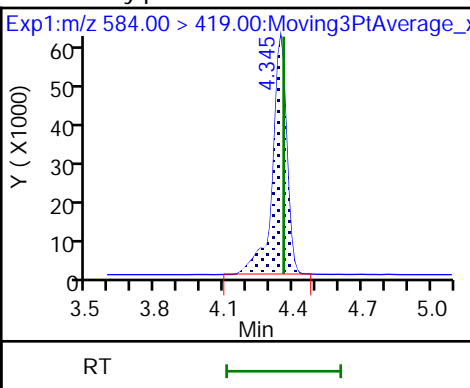
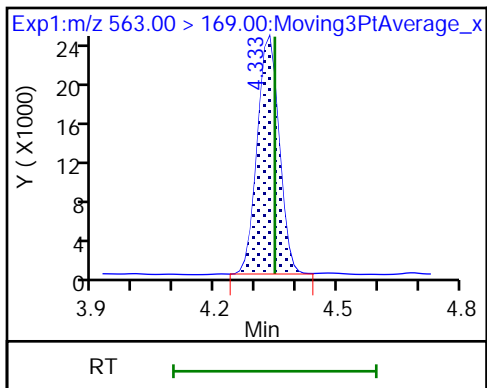
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (N)

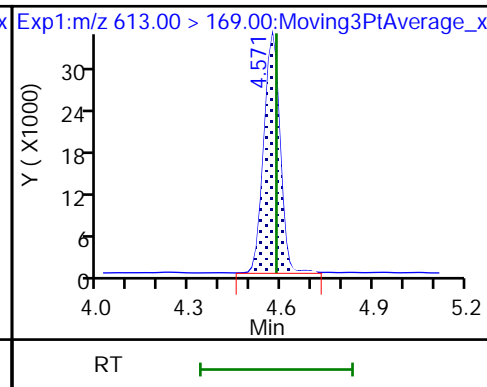
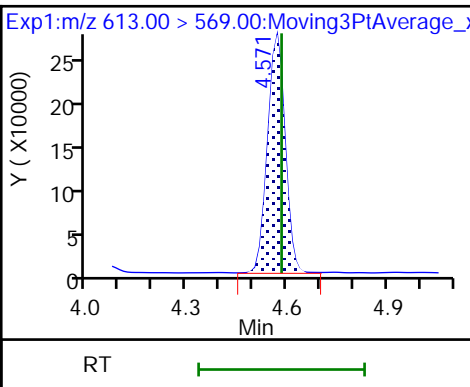
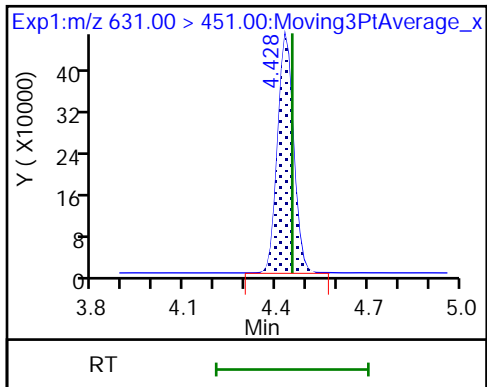
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

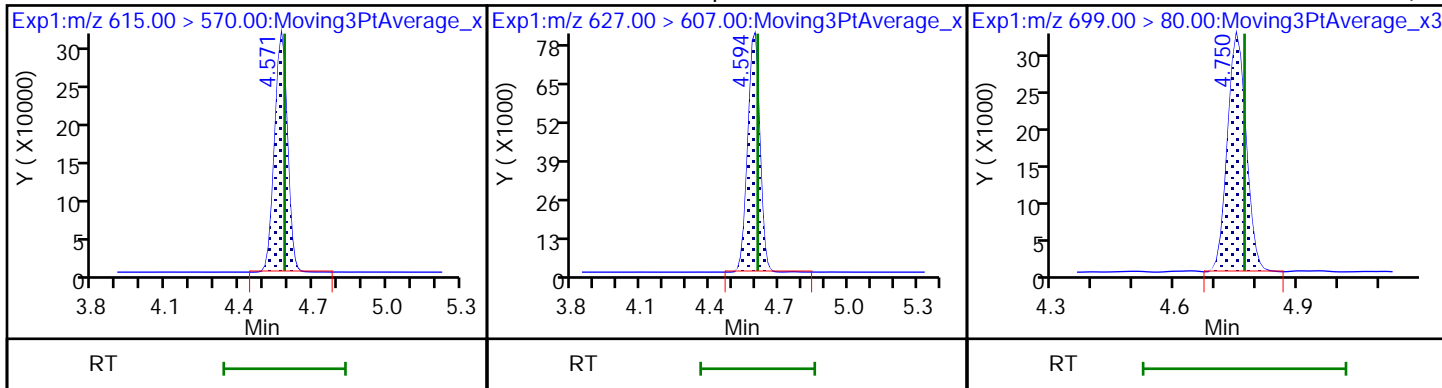
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

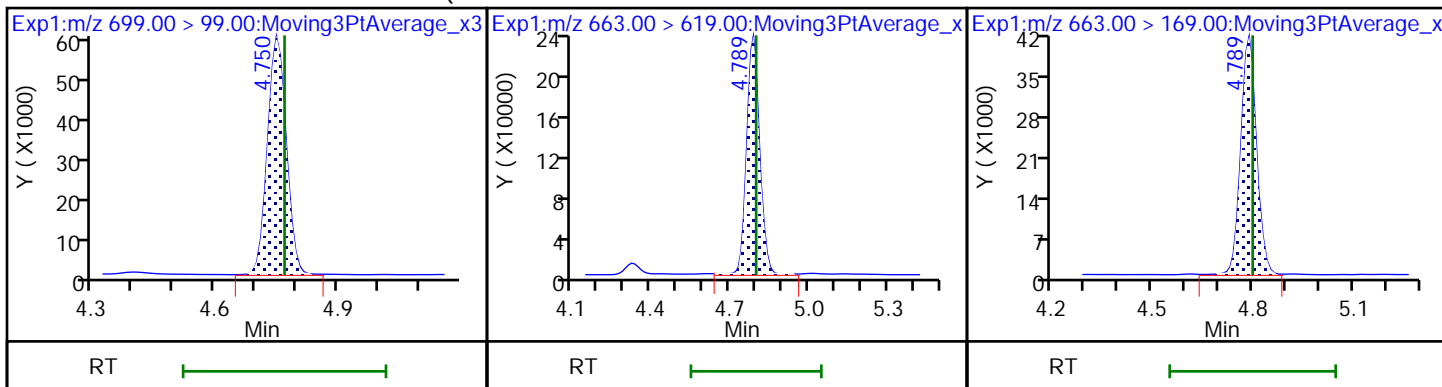
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

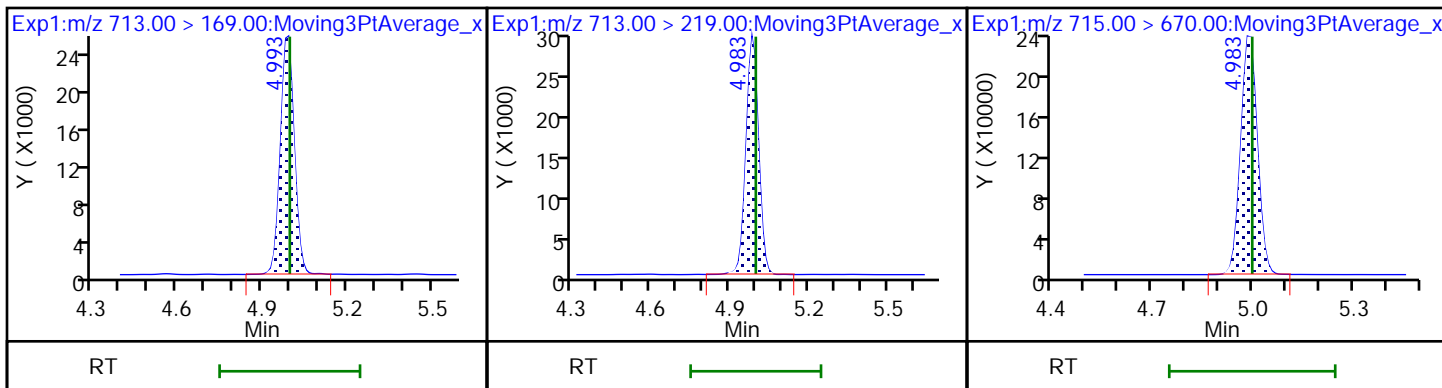
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

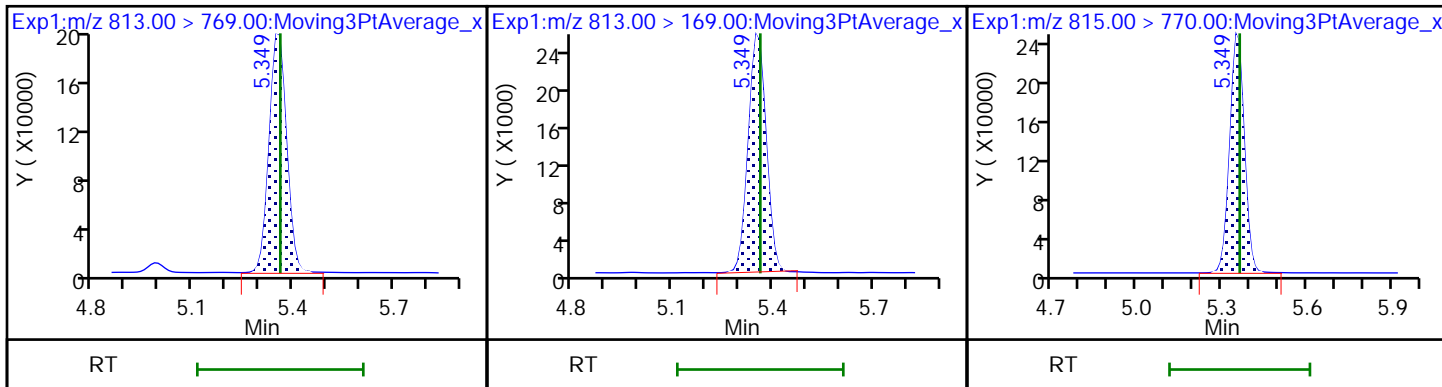
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

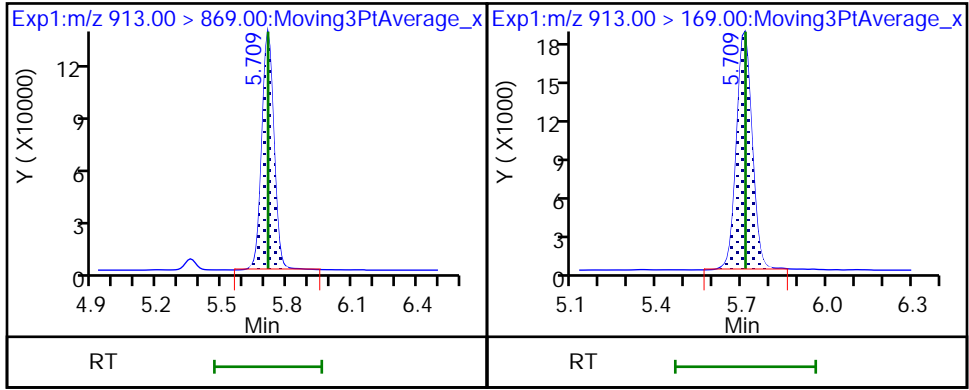
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



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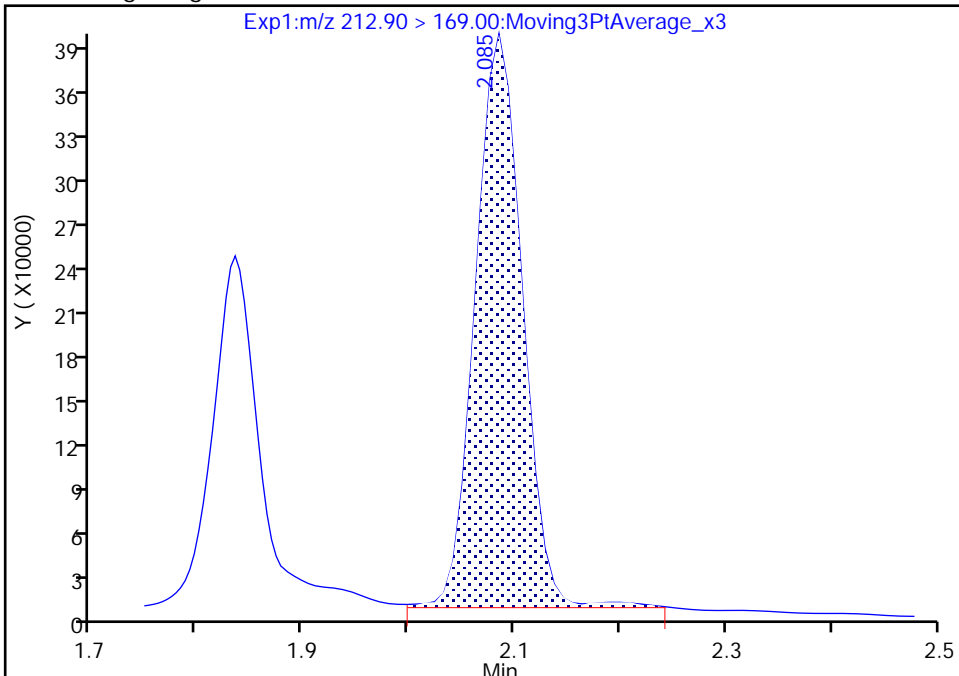
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

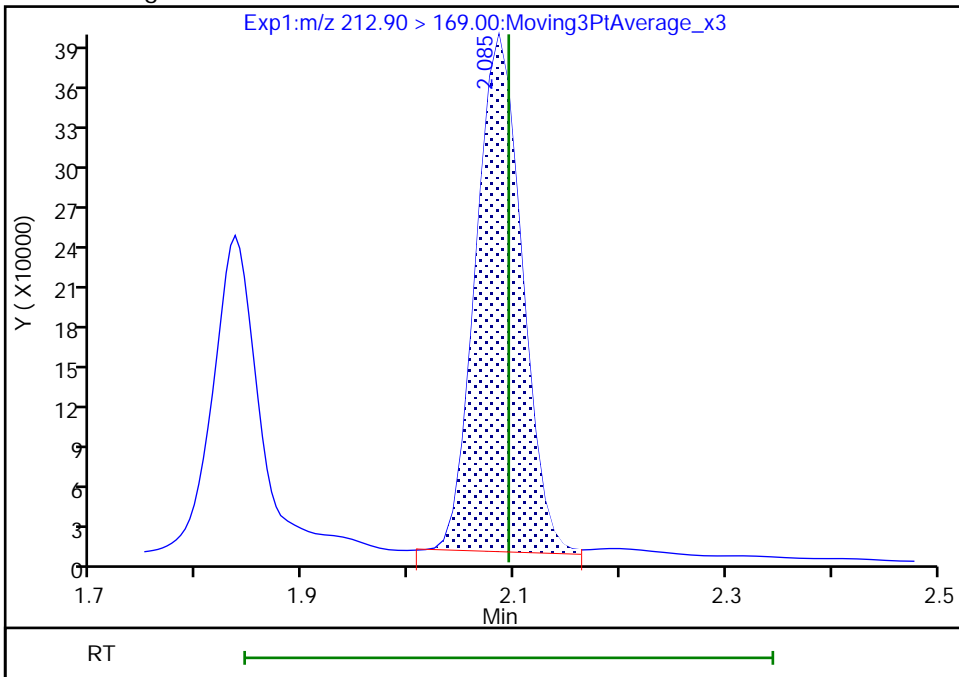
RT: 2.09
Area: 1195924
Amount: 1.009537
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1168888
Amount: 0.985733
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:03:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

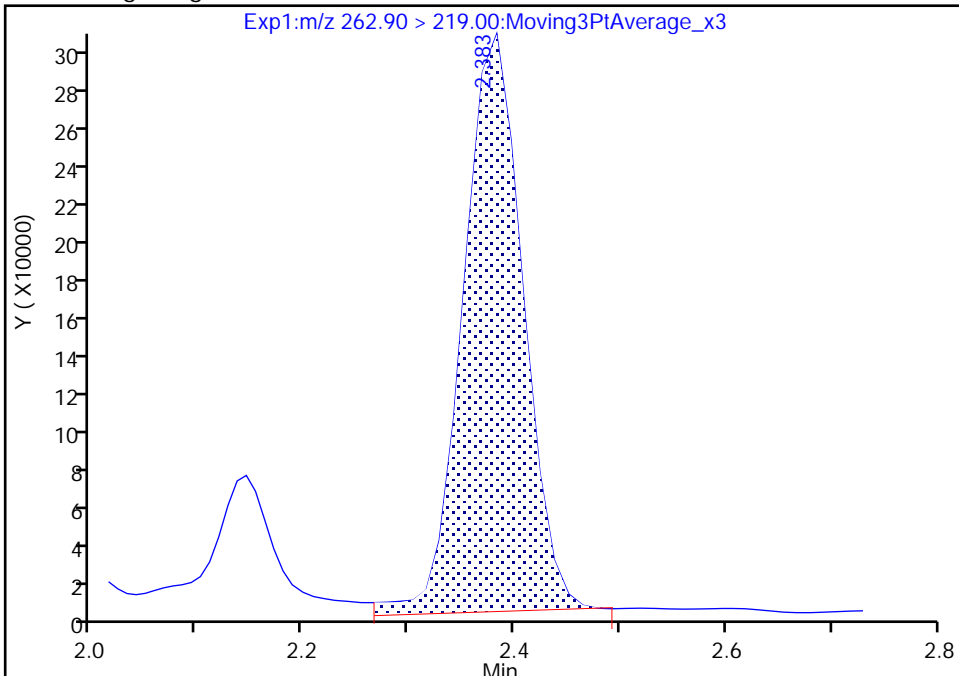
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

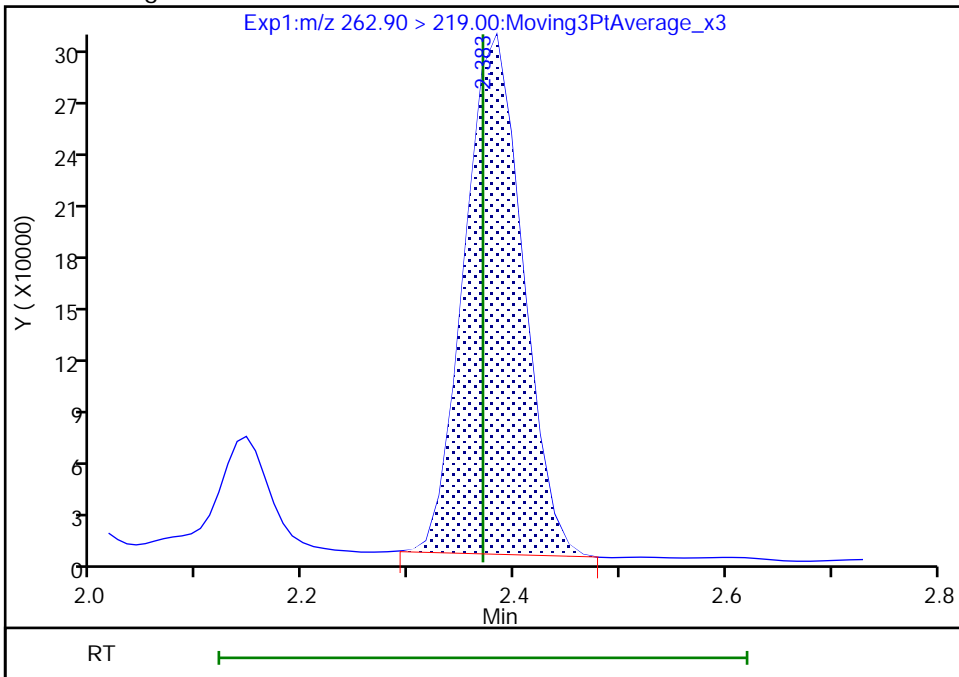
RT: 2.38
Area: 1185033
Amount: 1.014782
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 1130162
Amount: 0.967794
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:03:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

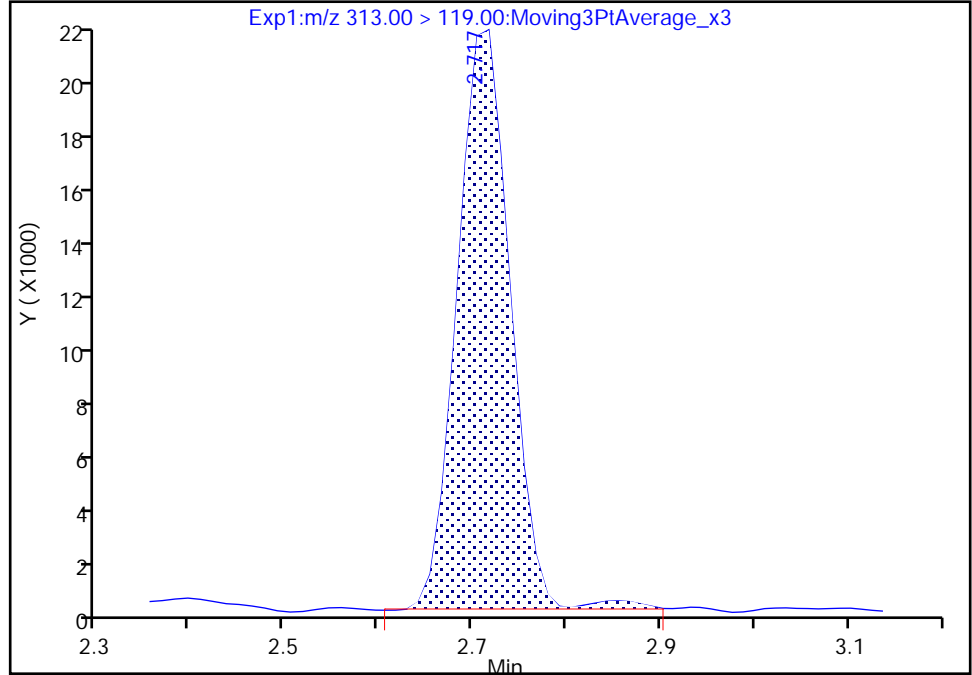
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

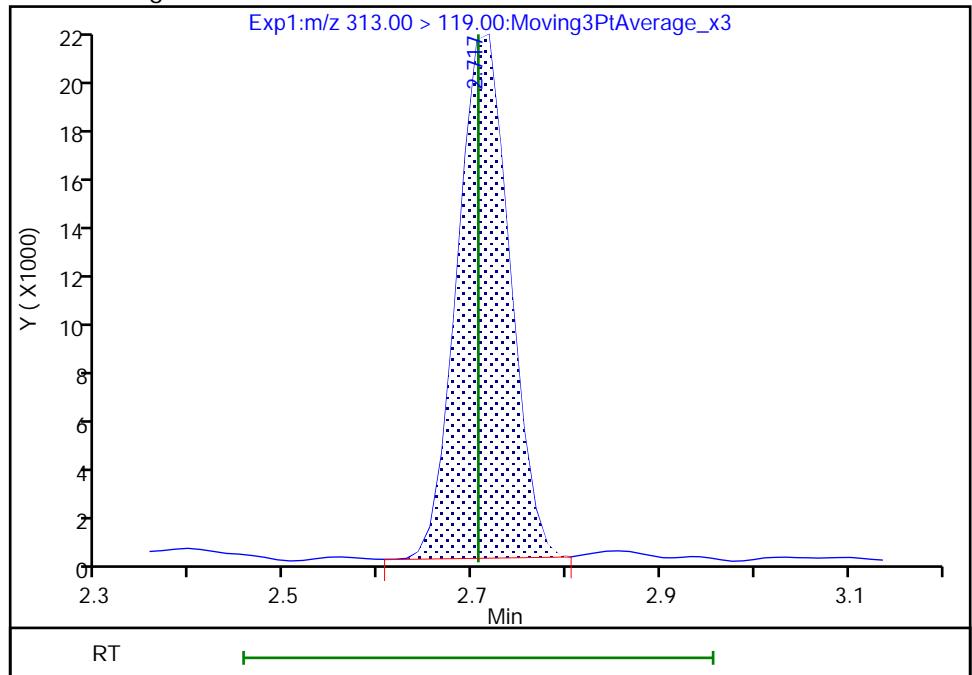
RT: 2.72
Area: 83691
Amount: 1.046199
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 82624
Amount: 1.046199
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:04:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

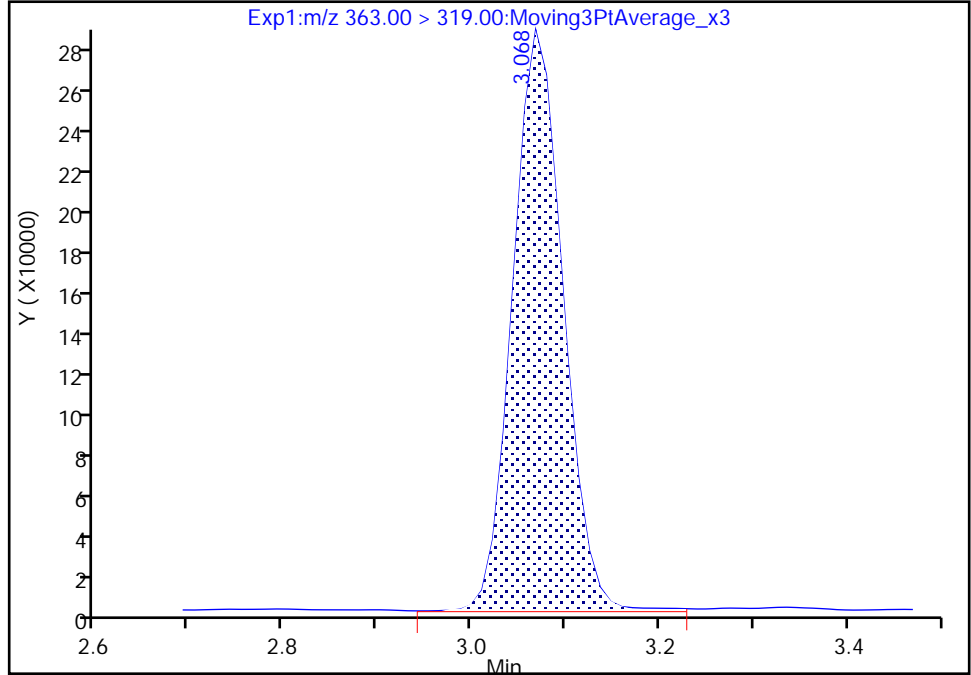
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

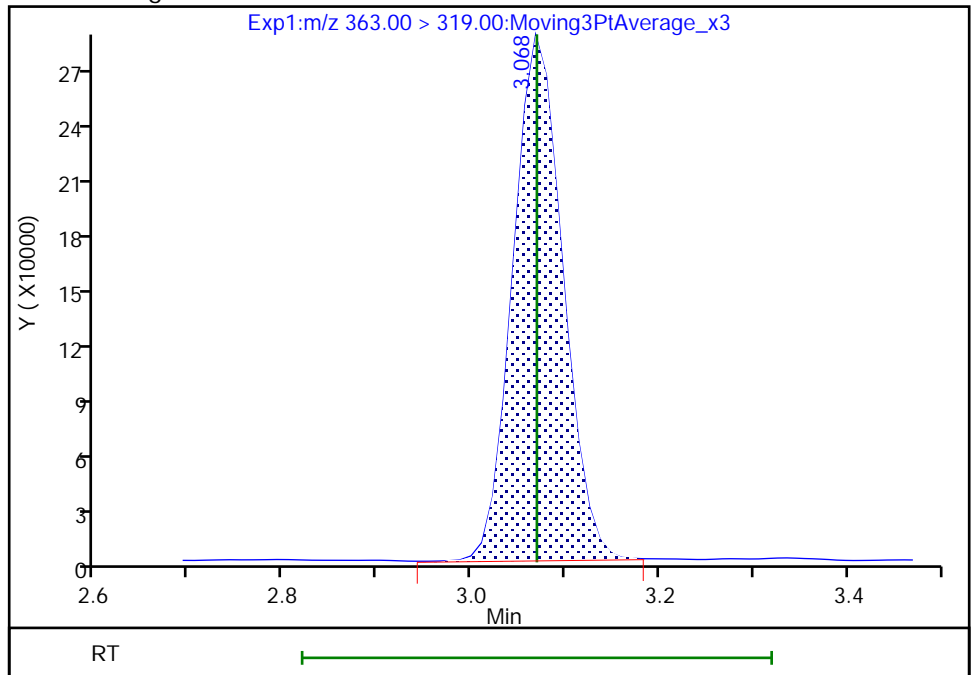
RT: 3.07
Area: 1068779
Amount: 1.049724
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 1057696
Amount: 1.038839
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:05:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

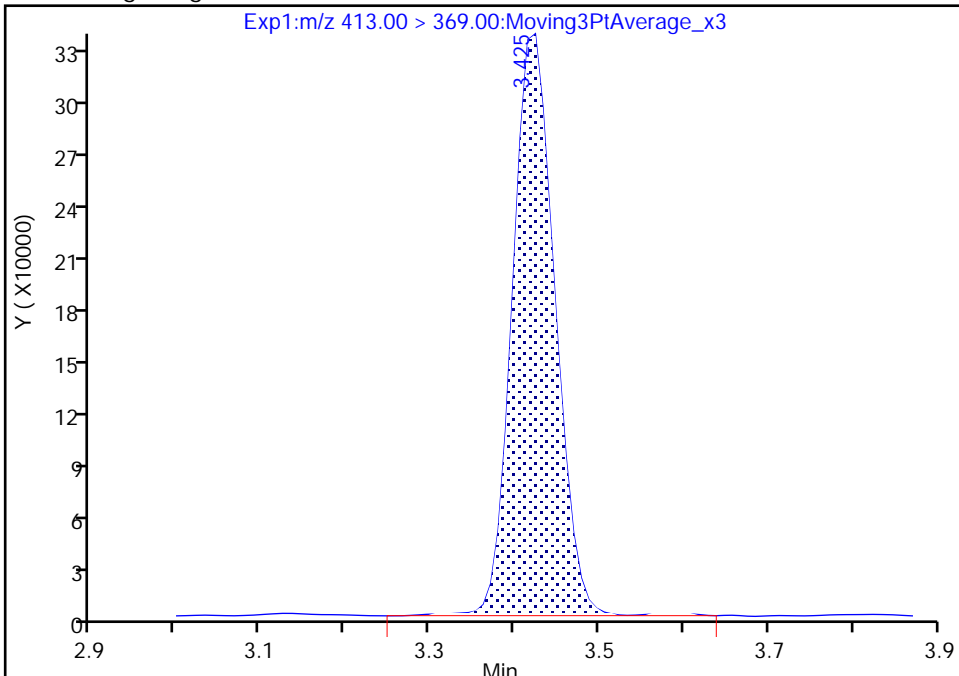
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

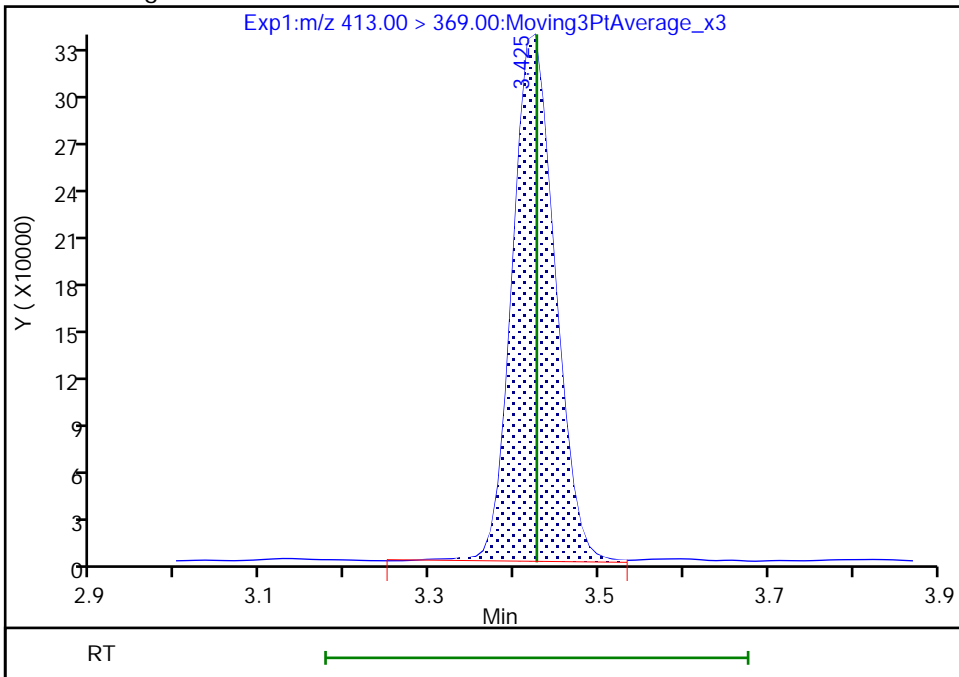
RT: 3.42
Area: 1144567
Amount: 1.001229
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 1142112
Amount: 0.999081
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:07:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

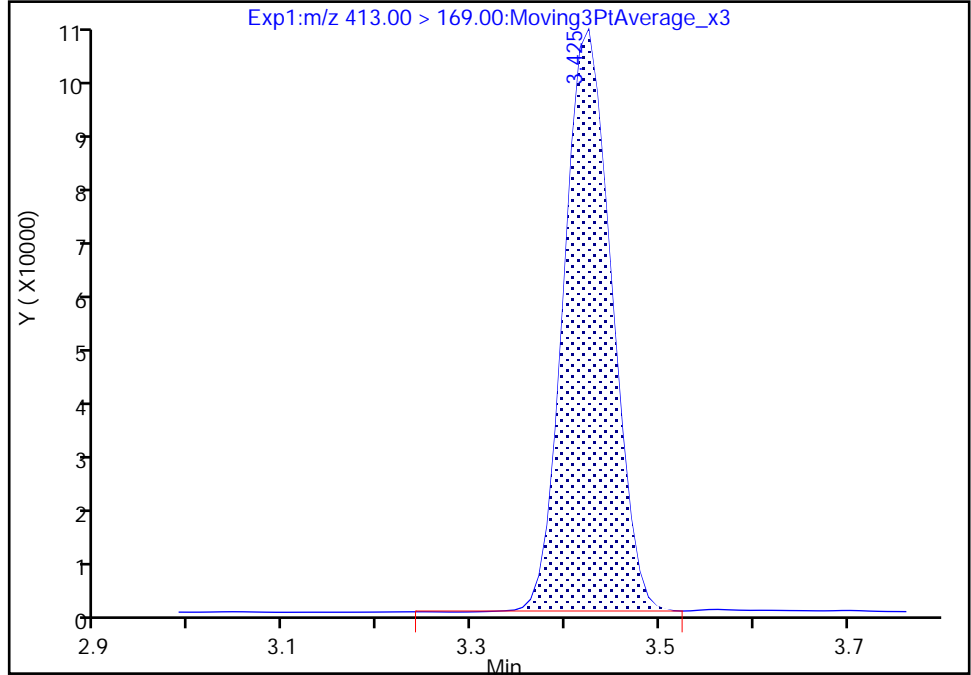
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

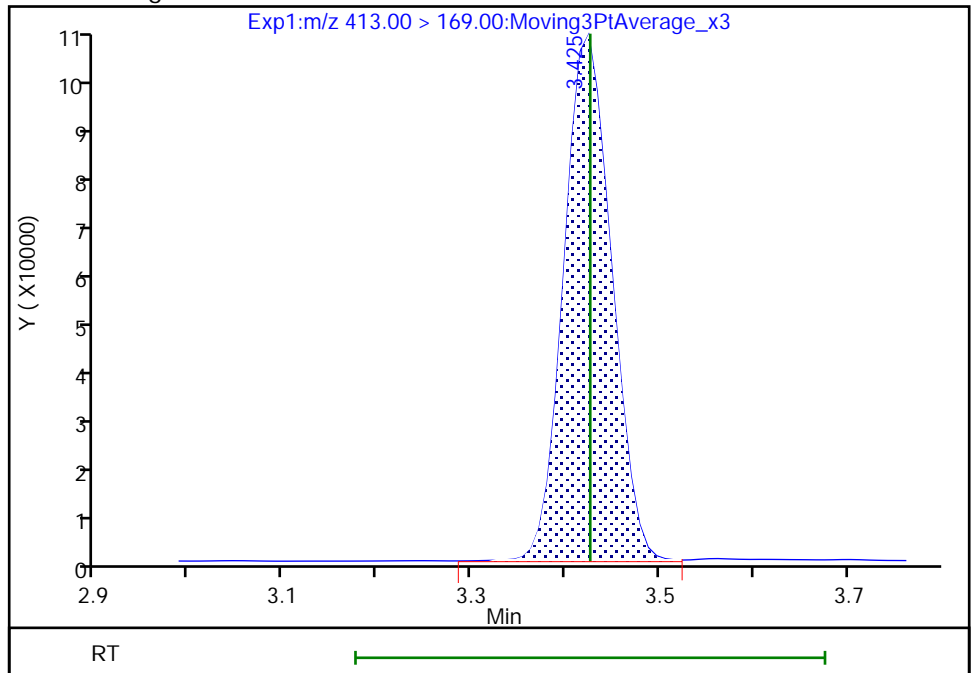
RT: 3.42
Area: 377250
Amount: 1.001229
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 378363
Amount: 0.999081
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:07:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

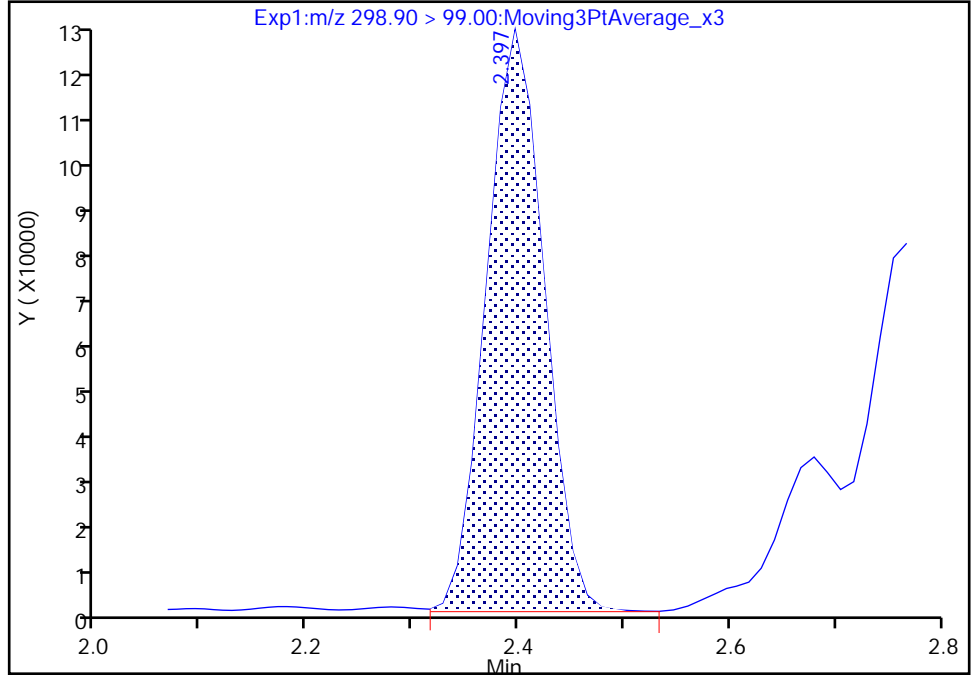
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

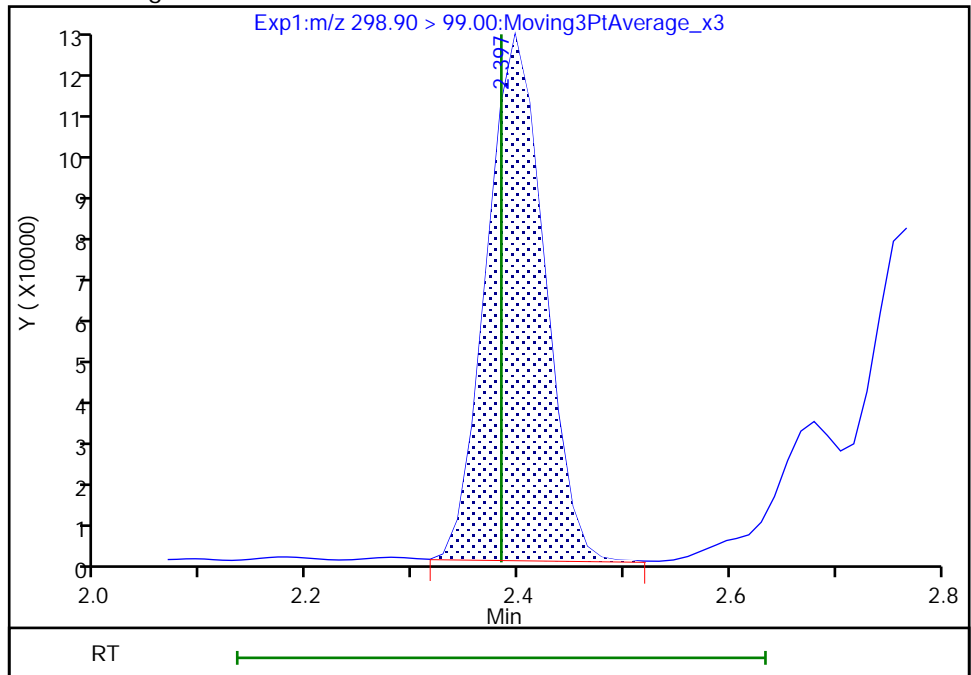
RT: 2.40
Area: 480154
Amount: 0.952609
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 477709
Amount: 0.952609
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:04:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

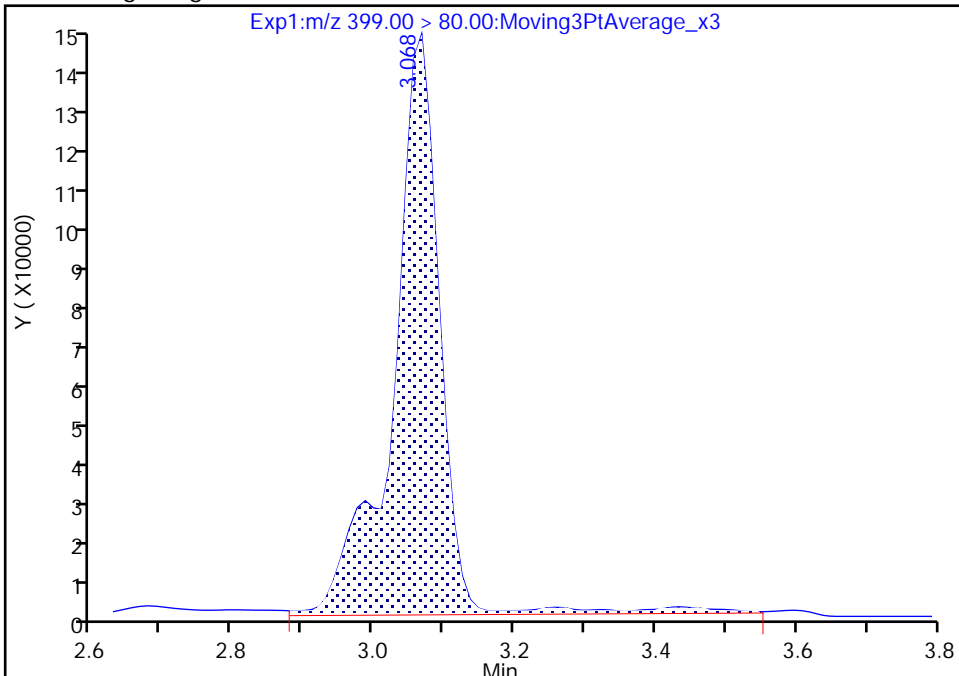
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

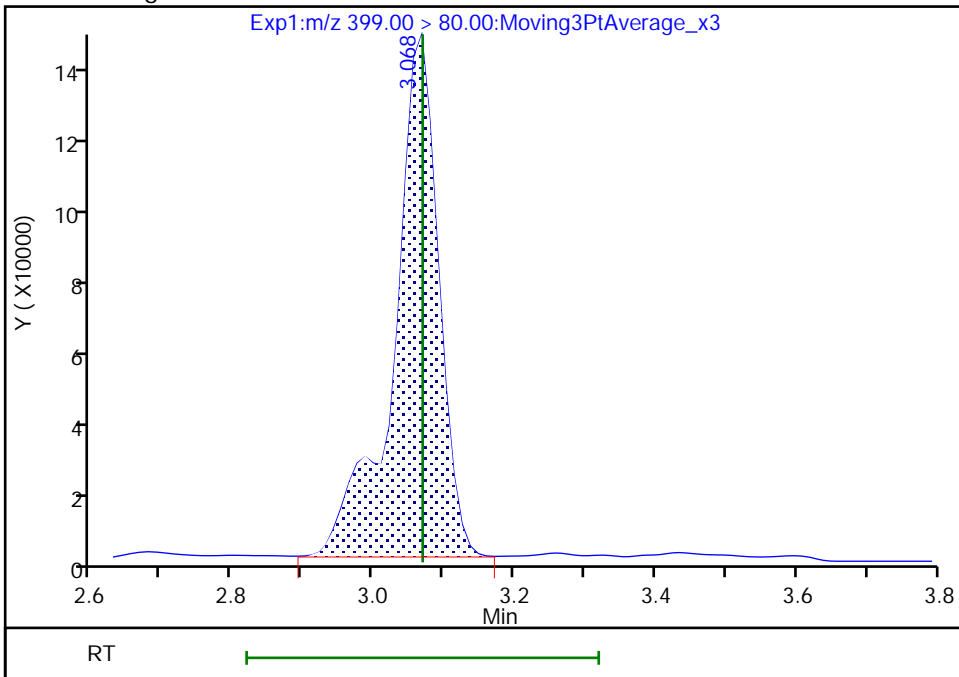
RT: 3.07
Area: 651536
Amount: 0.976913
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 620762
Amount: 0.930771
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:05:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

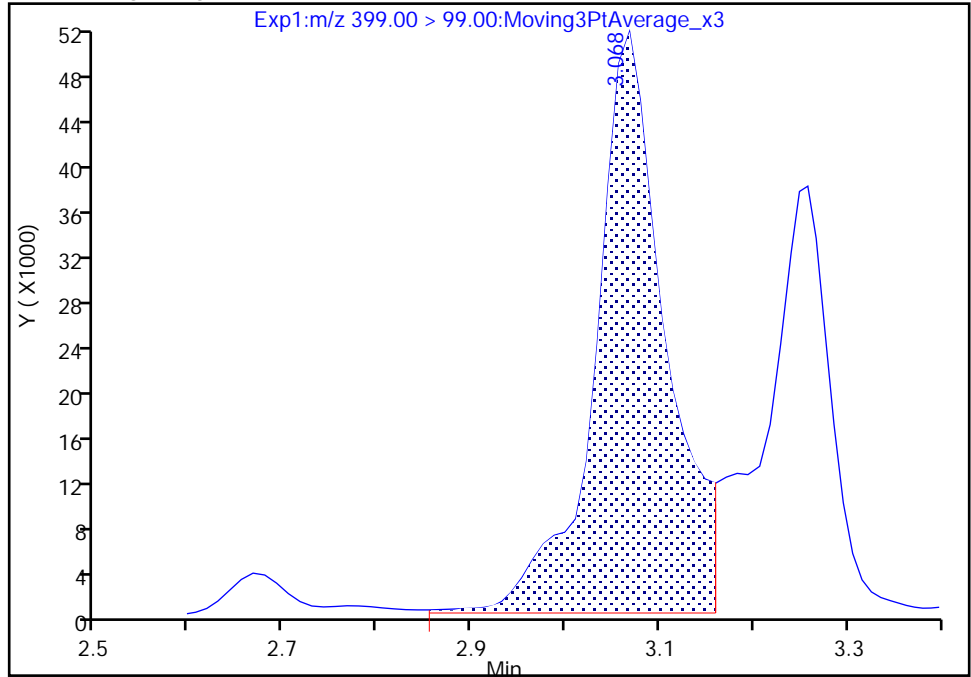
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

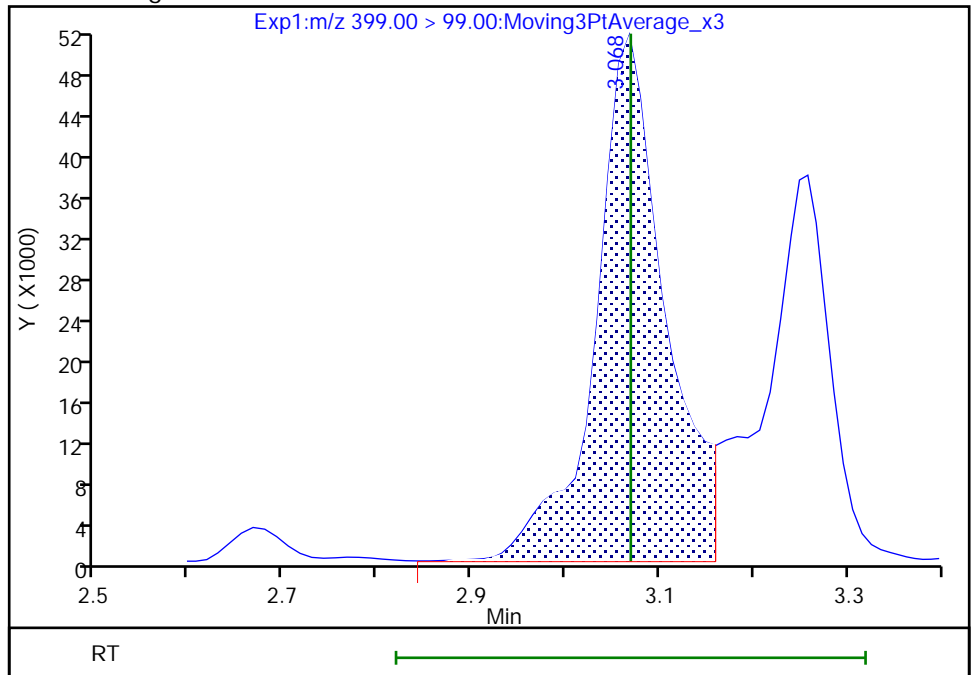
RT: 3.07
Area: 268371
Amount: 0.976913
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 261529
Amount: 0.930771
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:05:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 652 of 742

Eurofins Burlington

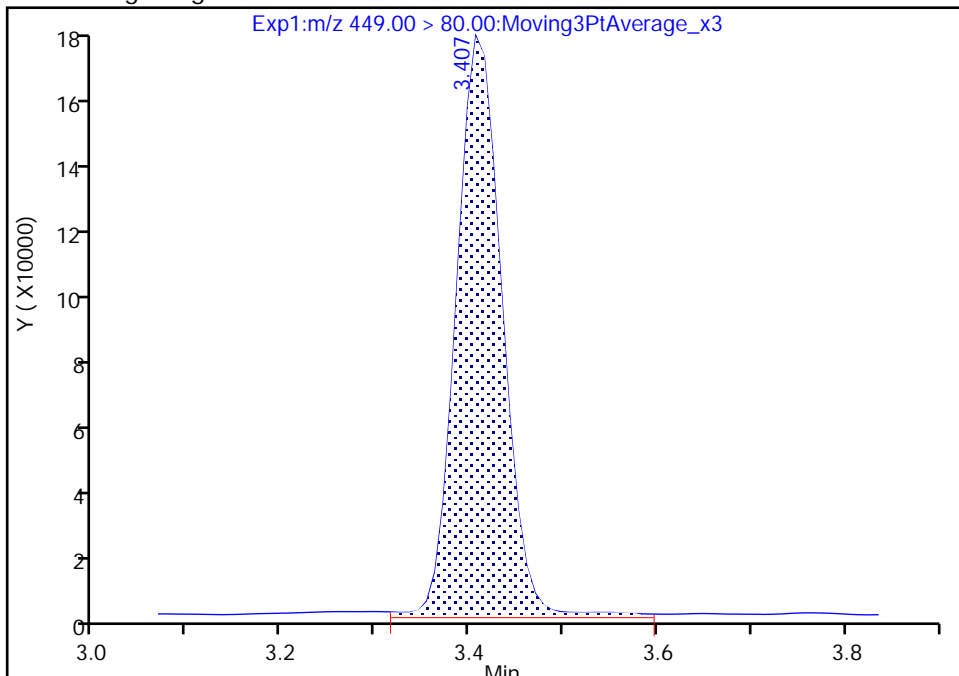
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

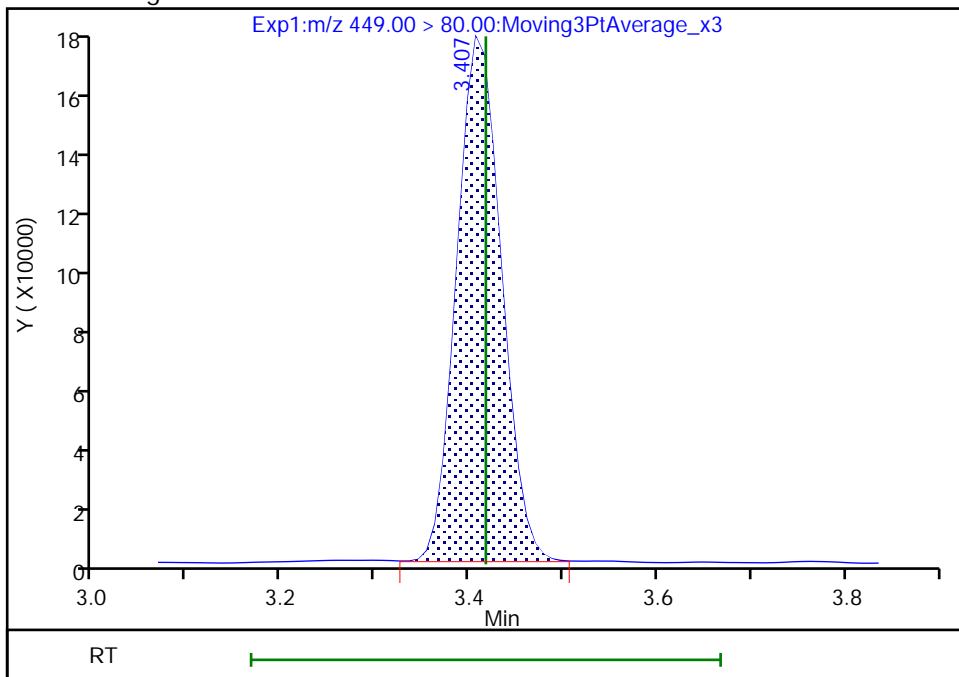
RT: 3.41
Area: 602071
Amount: 0.855075
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 572653
Amount: 0.813295
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:06:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

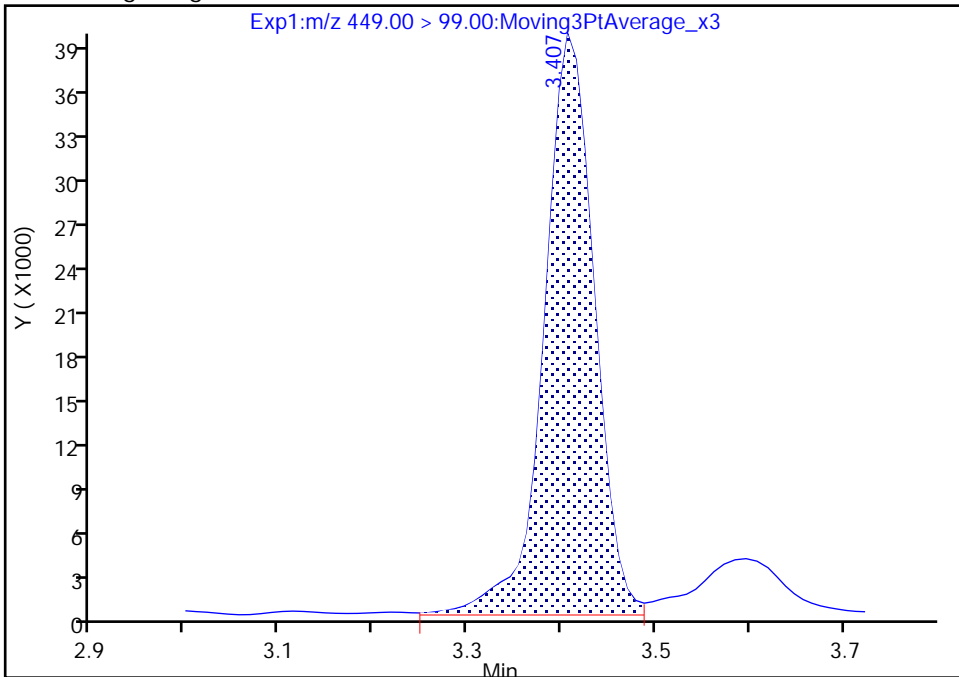
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

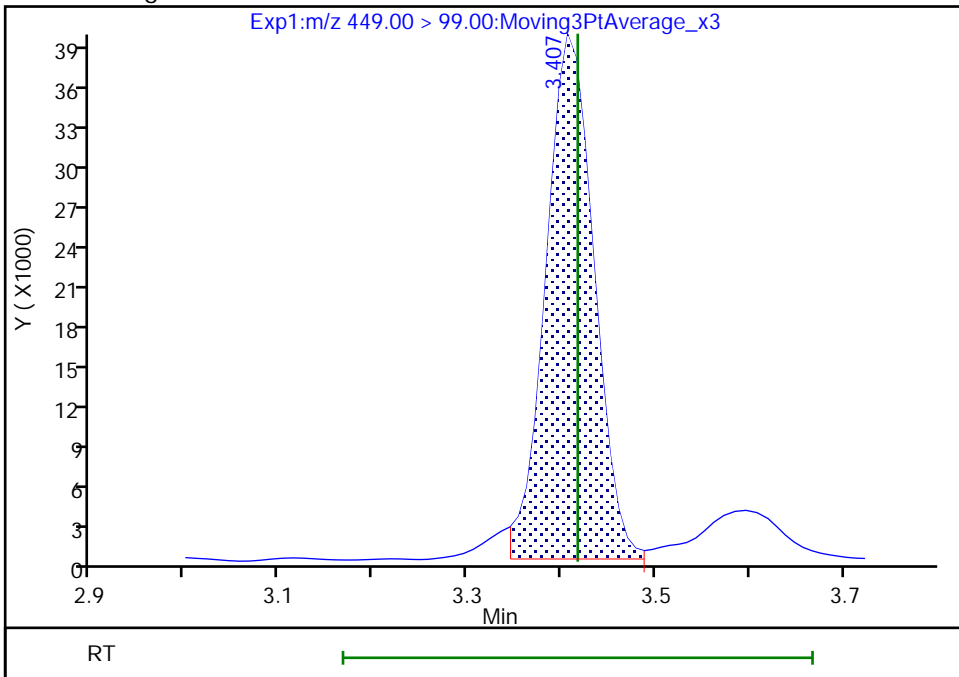
RT: 3.41
Area: 146060
Amount: 0.855075
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 138149
Amount: 0.813295
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:06:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

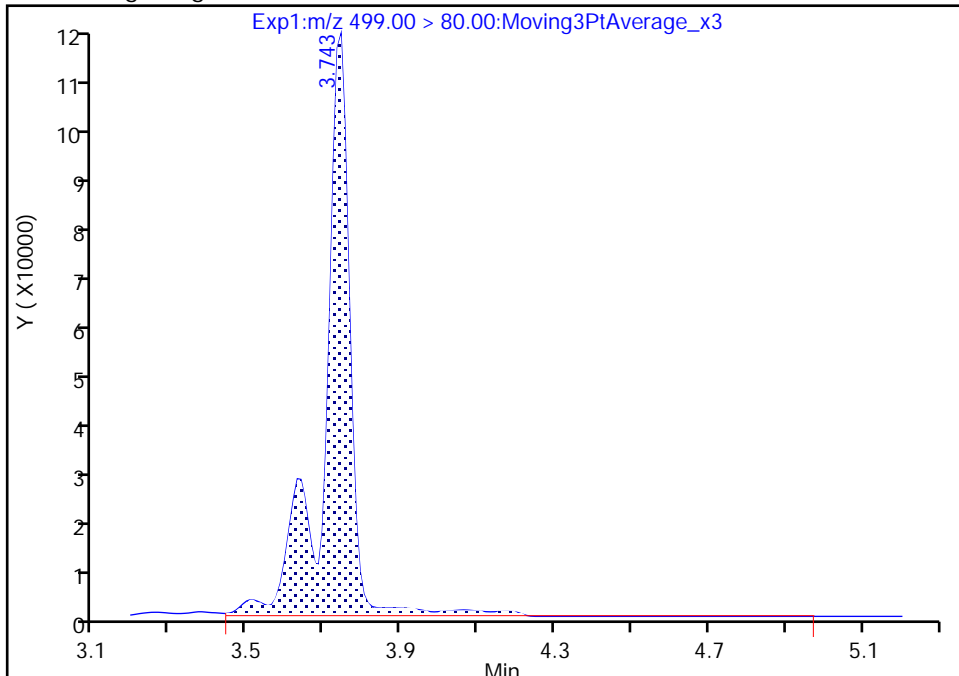
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

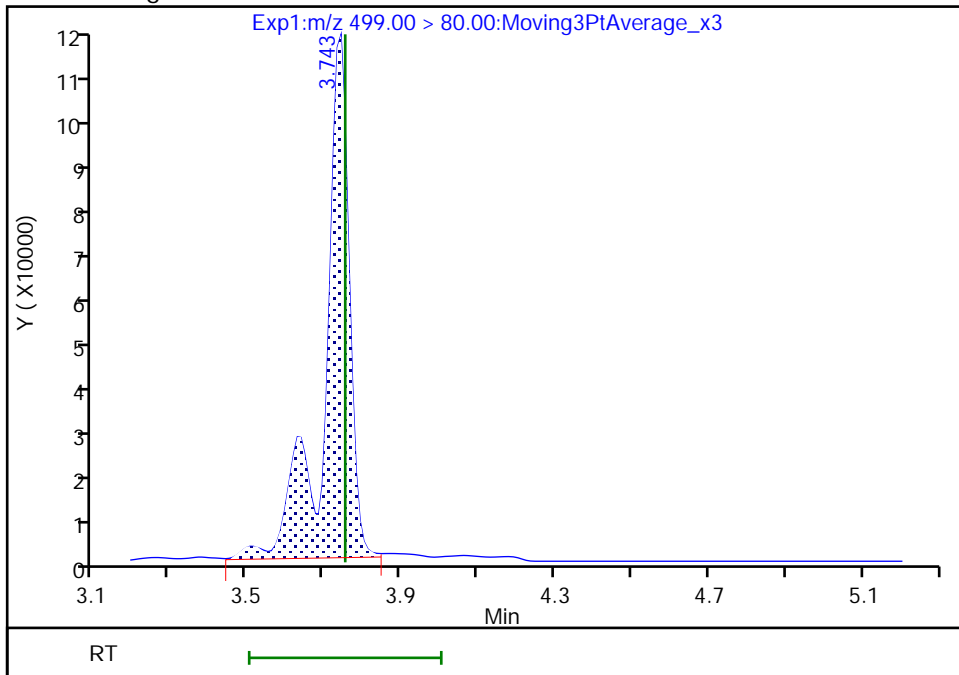
RT: 3.74
Area: 556286
Amount: 0.946322
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 513592
Amount: 0.873694
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:08:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

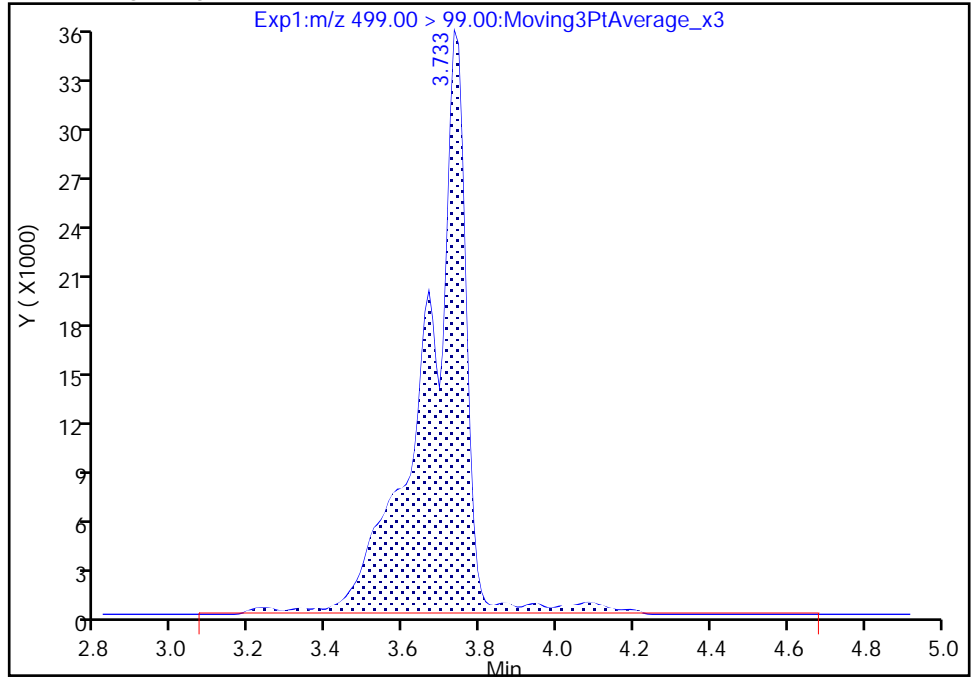
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

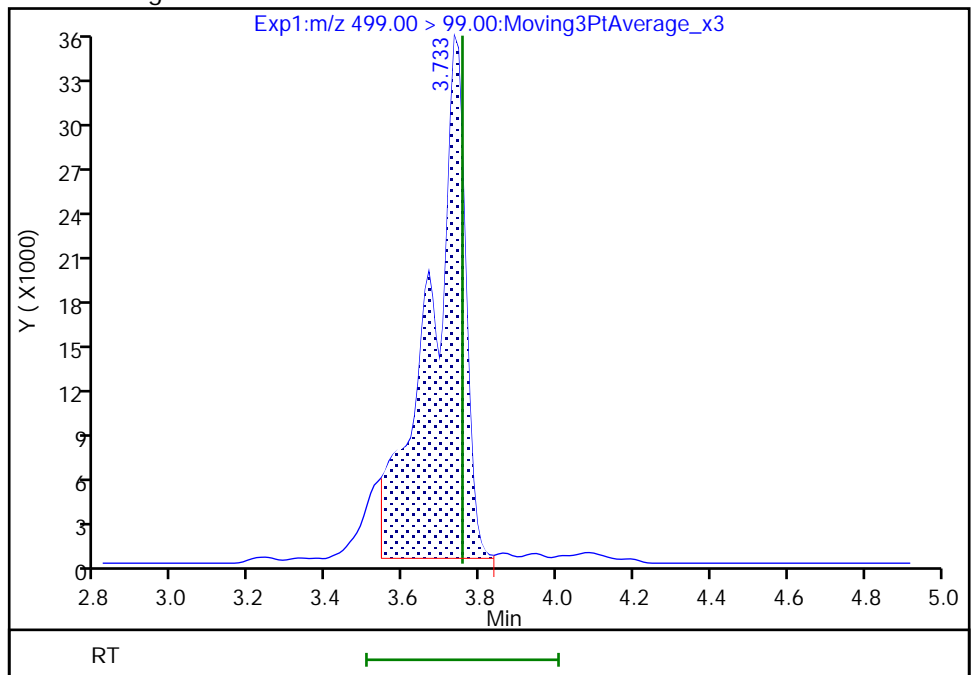
RT: 3.73
Area: 265930
Amount: 0.946322
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 223802
Amount: 0.873694
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 16:20:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

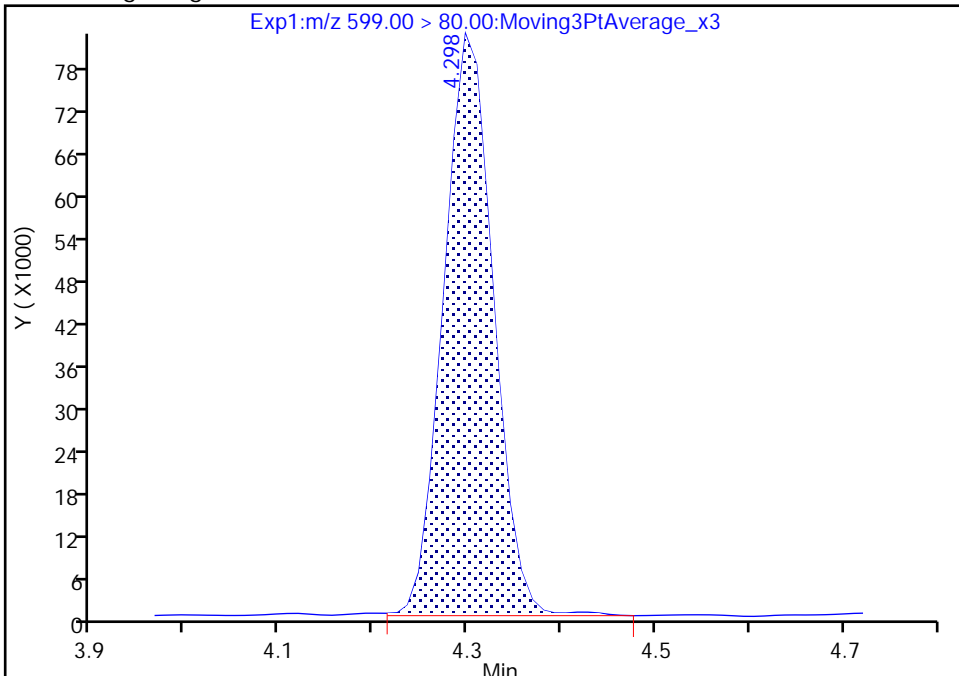
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

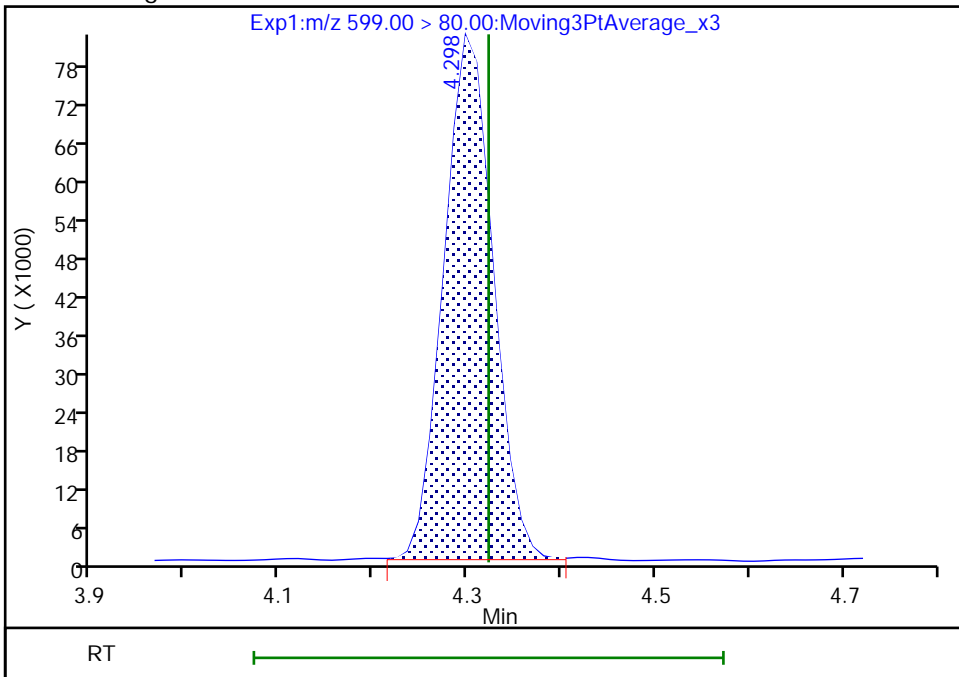
RT: 4.30
Area: 301568
Amount: 0.828604
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 300340
Amount: 0.825229
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:13:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

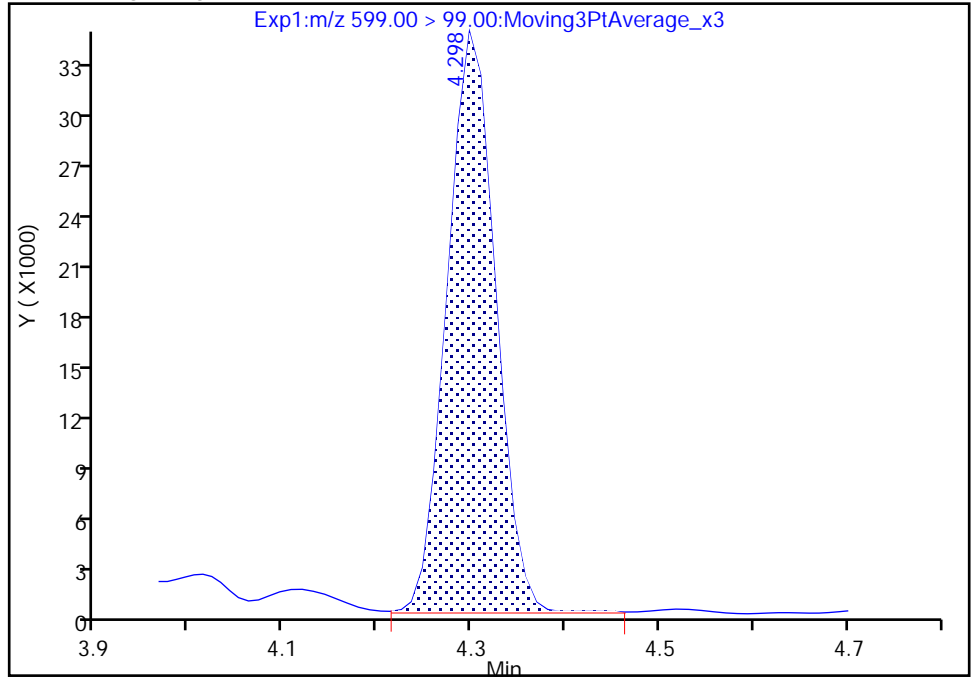
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Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

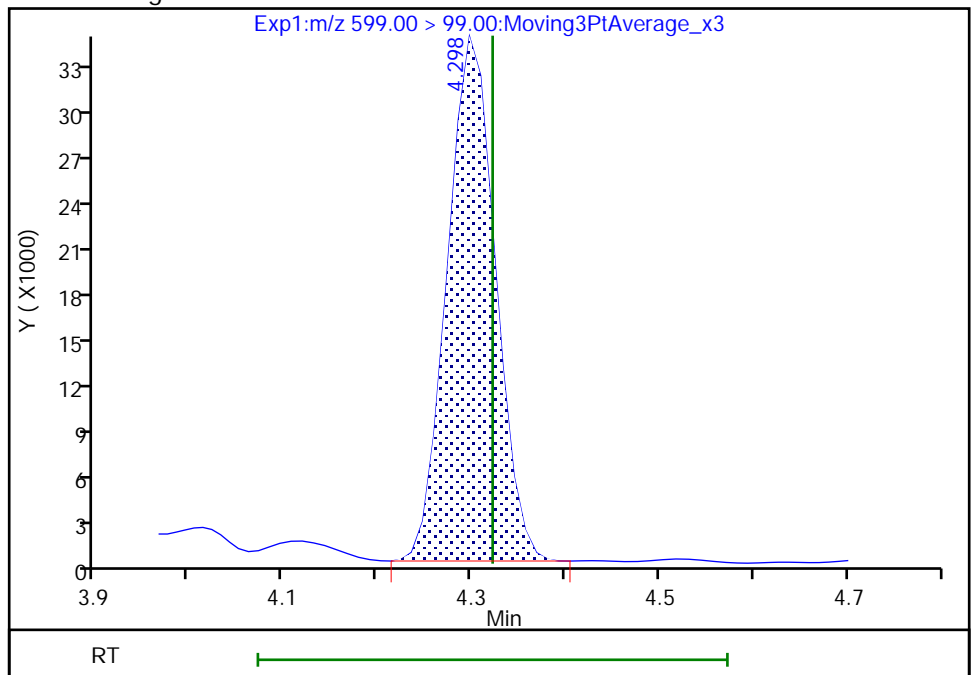
RT: 4.30
Area: 126669
Amount: 0.828604
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 124041
Amount: 0.825229
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:14:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

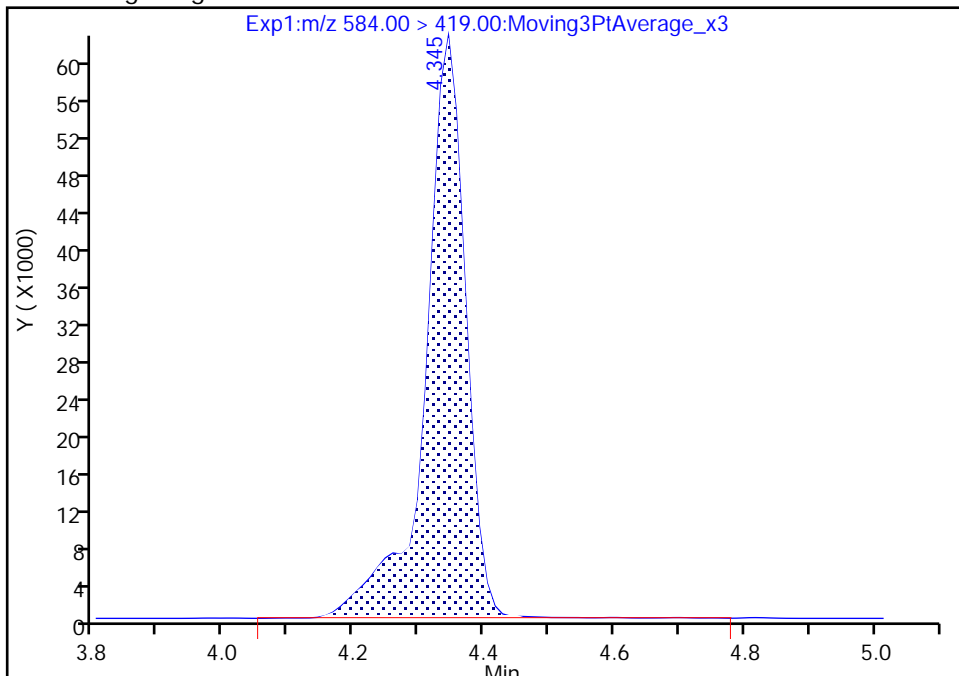
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A22.d
Injection Date: 26-Jan-2023 22:37:50 Instrument ID: LC812
Lims ID: 460-273176-A-4-B MS
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

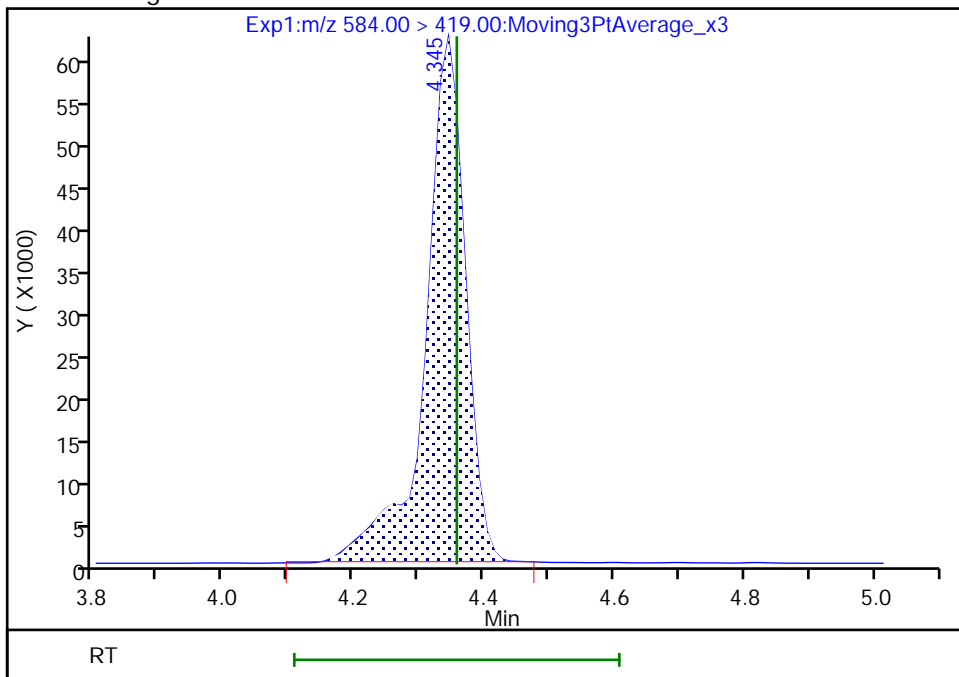
RT: 4.35
Area: 269841
Amount: 0.988961
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 266575
Amount: 0.976991
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:14:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-60_(15-15.5)P MSD Lab Sample ID: 460-273176-1 MSD
 Matrix: Solid Lab File ID: PA230126A17.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:05
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.03(g) Date Analyzed: 01/26/2023 21:57
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 31.4 % Solids: 68.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.030		0.72	0.48
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.107		0.29	0.080
307-24-4	Perfluorohexanoic acid (PFHxA)	3.352		0.29	0.067
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.289		0.29	0.056
335-67-1	Perfluorooctanoic acid (PFOA)	3.195		0.29	0.084
375-95-1	Perfluorononanoic acid (PFNA)	3.199		0.29	0.049
335-76-2	Perfluorodecanoic acid (PFDA)	2.488		0.29	0.041
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.880		0.29	0.039
307-55-1	Perfluorododecanoic acid (PFDoA)	2.794		0.29	0.036
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.219		0.29	0.036
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.680		0.29	0.038
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.607		0.29	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.731		0.29	0.059
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.824		0.29	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.552		0.29	0.16
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.975		0.29	0.028
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.866		0.29	0.049
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.906		2.90	0.16
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.002		2.90	0.12
27619-97-2	6:2 FTS	2.800	J	2.90	0.083
39108-34-4	8:2 FTS	2.780	J	2.90	0.054

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-60_(15-15.5)P MSD Lab Sample ID: 460-273176-1 MSD
 Matrix: Solid Lab File ID: PA230126A17.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:05
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.03(g) Date Analyzed: 01/26/2023 21:57
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 31.4 % Solids: 68.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	54		50-150
STL01892	13C4 PFHpA	72		50-150
STL00990	13C4 PFOA	71		50-150
STL00991	13C4 PFOS	63		50-150
STL00995	13C5 PFNA	67		50-150
STL00992	13C4 PFBA	76		50-150
STL00993	13C2 PFHxA	67		50-150
STL00996	13C2 PFDA	77		50-150
STL00997	13C2 PFUnA	66		50-150
STL00998	13C2 PFDoA	59		50-150
STL01056	13C8 FOSA	62		50-150
STL01893	13C5 PFPeA	71		50-150
STL02116	13C2 PFTeDA	34	*	50-150
STL02118	d3-NMeFOSAA	83		50-150
STL02117	d5-NEtFOSAA	86		50-150
STL02279	M2-6:2 FTS	73		50-150
STL02280	M2-8:2 FTS	78		50-150
STL02337	13C3 PFBS	66		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
 Lims ID: 460-273176-A-1-C MSD
 Client ID: BCS-09-60_(15-15.5)P
 Sample Type: MSD
 Inject. Date: 26-Jan-2023 21:57:03 ALS Bottle#: 14 Worklist Smp#: 17
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-1-C MSD
 Misc. Info.: 200-0054135-017 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 17:43:02

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.606	1484864	0.9473	75.8	12878	
2 Perfluorobutanoic acid	212.90 > 169.00	2.086	2.094	-0.008	1.000	1225952	1.05	105	139	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1119183	0.8833	70.7	4225	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	1099855	1.07	107	29.3	
D 47 13C3 PFBS	301.90 > 80.00	2.411	2.384	0.027	0.700	1068844	0.7684	66.1	83130	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.000	886517	0.9000	Target=2.10	102	808
	298.90 > 99.00	2.411	2.384	0.027	1.000	418959	2.12(1.05-3.15)		45.9	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.693	2.669	0.024	1.000	220072	1.06	113	378	
D 60 M2-4:2 FTS	329.00 > 81.00	2.693	2.669	0.024	0.782	82248	0.7313	62.6	76.4	M
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.793	1094651	0.8314	66.5	5665	
6 Perfluorohexanoic acid	313.00 > 269.00	2.731	2.706	0.025	1.000	1067628	1.16	Target=13.16	116	186
	313.00 > 119.00	2.731	2.706	0.025	1.000	81245	13.14(6.58-19.74)		151	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.886	773450	1.13	Target=2.90	121	810
	349.00 > 99.00	2.731	2.706	0.025	0.886	275079	2.81(1.45-4.35)		477	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.831	2.806	0.025	1.000	174031	1.14		114	3875

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.831	2.806	0.025	0.822	190970	0.8372		67.0	1984	
D 11 18O2 PFHxS										
403.00 > 84.00	3.081	3.069	0.012	0.894	651719	0.6439		54.5	3413	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.092	3.069	0.023	1.004	570339	0.9428	Target=3.18	104	734	M
399.00 > 99.00	3.081	3.069	0.012	1.000	206242		2.77(1.59-4.77)	34.6		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.092	3.069	0.023	0.898	1191170	0.9037		72.3	4973	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.092	3.069	0.023	1.000	1152127	1.14	Target=4.10	114	216	M
363.00 > 169.00	3.092	3.069	0.023	1.000	272737		4.22(2.05-6.16)	942		
77 DONA										
377.00 > 251.00	3.127	3.104	0.023	0.833	2549240	1.14	Target=2.96	121	2104	
377.00 > 85.00	3.127	3.104	0.023	0.833	764162		3.34(1.48-4.44)	1689		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.435	3.417	0.018	0.997	139181	0.8723		73.5	294	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.435	3.417	0.018	1.000	259437	0.9666		102	302	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.435	3.417	0.018	0.915	552532	0.9748	Target=4.59	102	767	M
449.00 > 99.00	3.426	3.417	0.009	0.913	122718		4.50(2.30-6.89)	169		
D 14 13C4 PFOA										
417.00 > 372.00	3.444	3.426	0.018	1.000	1245482	0.8918		71.3	9317	
* 62 13C2 PFOA										
415.00 > 370.00	3.444	3.426	0.018		1704147	1.25			5773	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.444	3.426	0.018	1.000	1196088	1.10	Target=2.71	110	110	
413.00 > 169.00	3.444	3.426	0.018	1.000	388706		3.08(1.36-4.07)	1042		
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.090	465496	0.7564		63.3	1418	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	416910	0.8810	Target=4.23	94.9	390	M
499.00 > 99.00	3.754	3.754	0.0	1.000	159771		2.61(2.11-6.34)	148		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.774	0.0	1.000	1027898	1.10	Target=8.78	110	201	M
463.00 > 169.00	3.774	3.774	0.0	1.000	109286		9.41(4.39-13.17)	525		
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.774	0.0	1.096	1138950	0.8371		67.0	4366	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	1080227	0.9563		103	4422	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	330006	0.8397	Target=2.37	87.5	1339	
549.00 > 99.00	4.052	4.043	0.009	1.080	137807		2.39(1.18-3.55)	181		
D 23 13C2 PFDA										
515.00 > 470.00	4.074	4.074	0.0	1.183	1346732	0.9649		77.2	8145	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.003	989363	0.8588	Target=11.13	85.9	236	
513.00 > 169.00	4.084	4.074	0.010	1.003	97608		10.14(5.56-16.69)		584	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	187087	0.9360		78.2	724	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	272018	0.9598		100	3281	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	698010	0.9894		98.9	2403	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	876895	0.7731		61.8	4750	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.227	285386	1.04		83.2	1177	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	206524	1.00		100	880	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	199772	0.6819	Target=2.45	70.7	1188	M
599.00 > 99.00	4.322	4.322	0.0	1.151	87212		2.29(1.23-3.68)		55.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	999649	0.8298		66.4	7094	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	868007	0.99	Target=10.33	99.4	258	
563.00 > 169.00	4.346	4.346	0.0	1.000	78539		11.05(5.17-15.50)		925	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.370	4.358	0.012	1.003	218597	1.04		104	1253	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.265	283753	1.08		86.1	758	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.186	1510032	0.8638		91.7	4858	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.595	4.584	0.011	1.000	704389	0.9645	Target=8.10	96.5	113	M
613.00 > 169.00	4.595	4.584	0.011	1.000	89567		7.86(4.05-12.15)		630	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.595	4.584	0.011	1.334	896644	0.7423		59.4	7427	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.606	4.606	0.0	1.128	141955	0.7921		82.2	2568	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.770	4.770	0.0	1.271	48522	0.4077	Target=0.51	42.1	733	
699.00 > 99.00	4.770	4.770	0.0	1.271	93029		0.52(0.26-0.77)		358	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.047	558664	0.7659	Target=6.06	76.6	95.2	
663.00 > 169.00	4.799	4.799	0.0	1.044	91212		6.12(3.03-9.09)		1080	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.008	4.998	0.010	1.000	40878	0.9251	Target=0.83	92.5	688	
713.00 > 219.00	4.998	4.998	0.0	0.998	41589		0.98(0.42-1.25)		679	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.008	4.998	0.010	1.454	442394	0.4258		34.1	3538	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.373	5.362	0.011	1.002	289448	0.9744	Target=6.74	97.4	94.0	
813.00 > 169.00	5.362	5.362	0.0	1.000	49516		5.85(3.37-10.11)		994	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.362	5.362	0.0	1.557	400528	0.3146		25.2	2693	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.729	5.711	0.018	1.069	251447	0.9702	Target=6.99	97.0	119	
913.00 > 169.00	5.720	5.711	0.009	1.067	31318		8.03(3.50-10.49)		511	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d

Injection Date: 26-Jan-2023 21:57:03

Instrument ID: LC812

Lims ID: 460-273176-A-1-C MSD

Client ID: BCS-09-60_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 14

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

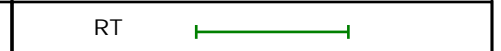
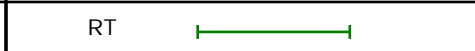
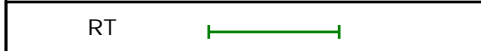
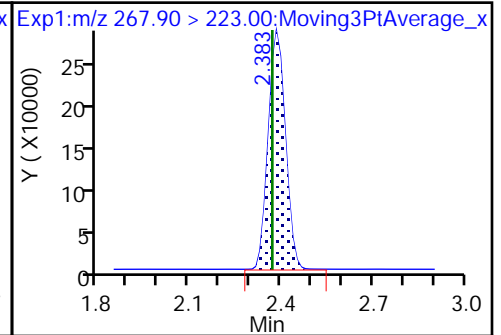
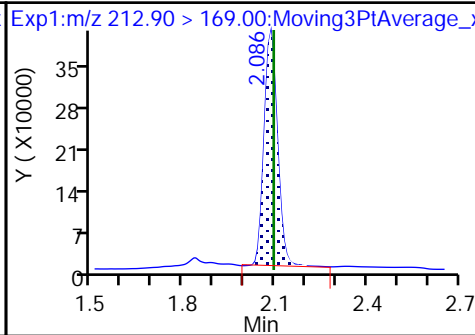
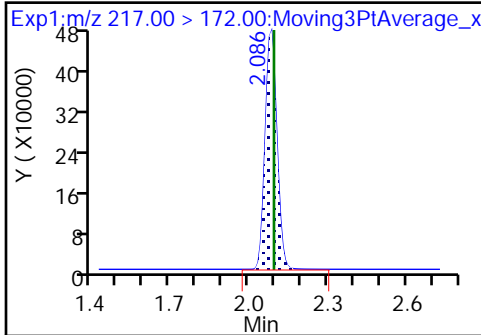
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

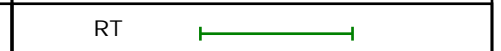
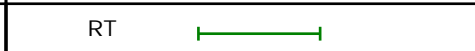
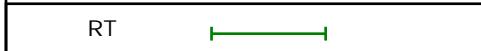
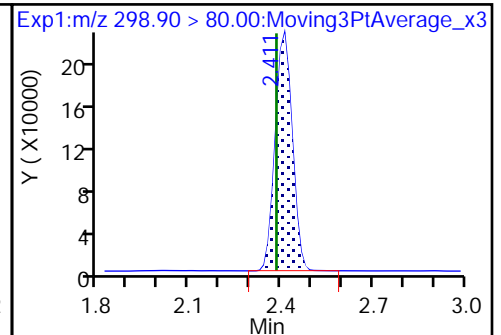
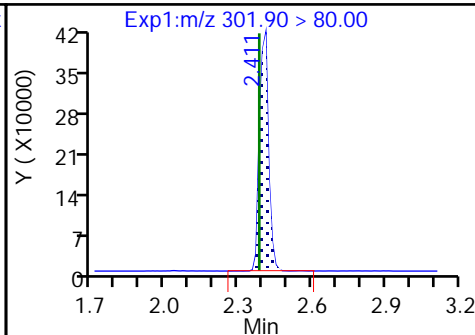
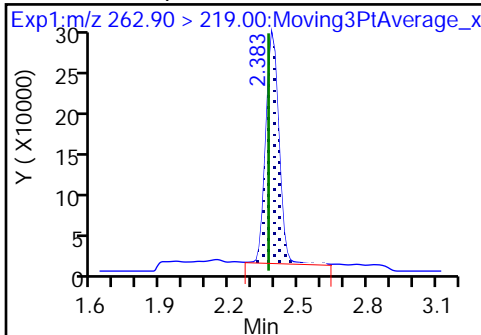
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

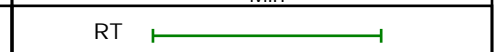
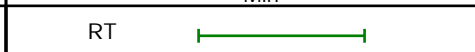
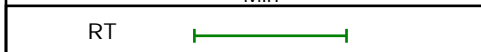
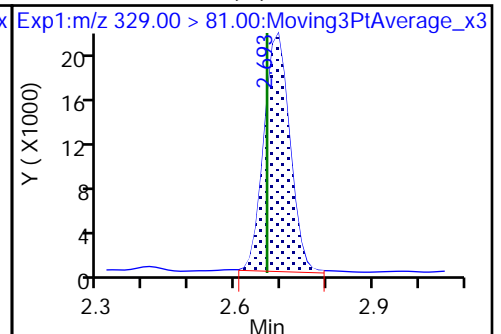
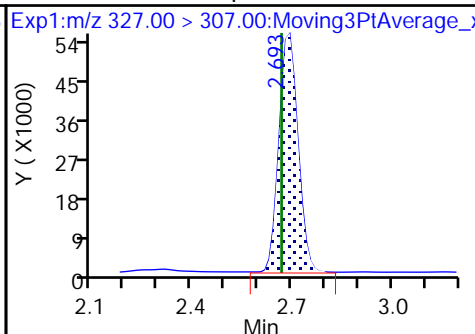
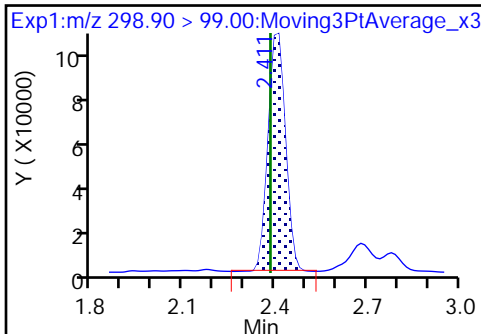
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

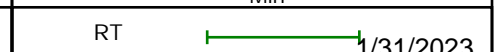
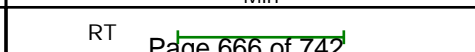
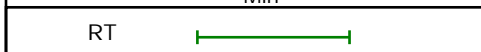
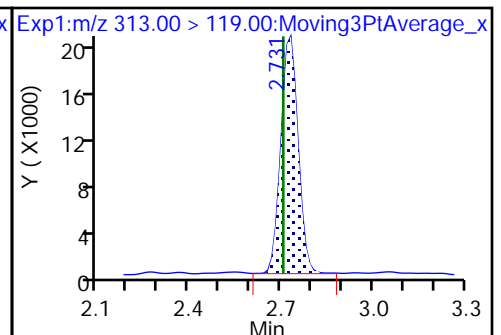
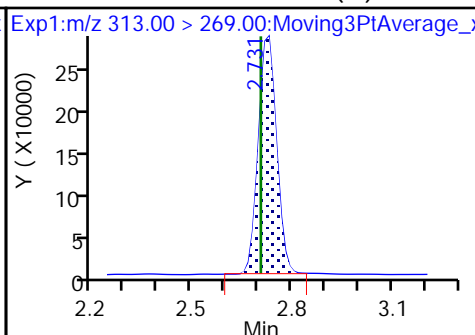
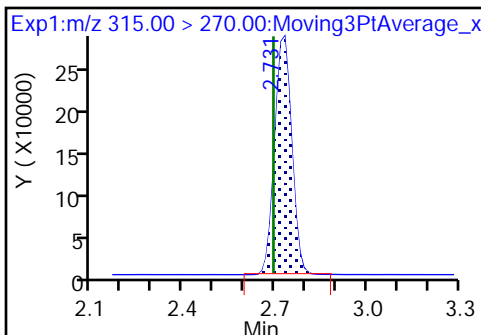
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

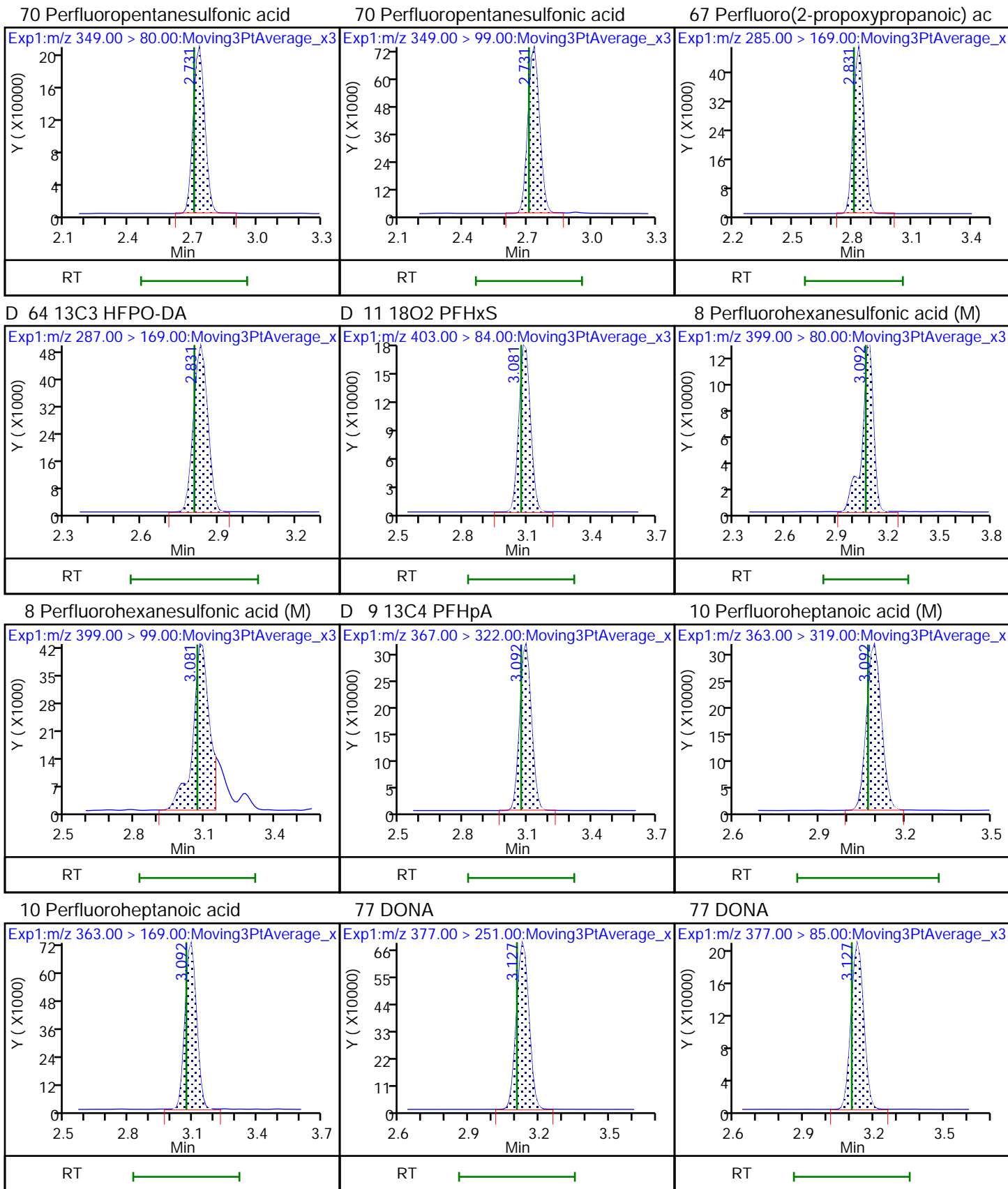


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

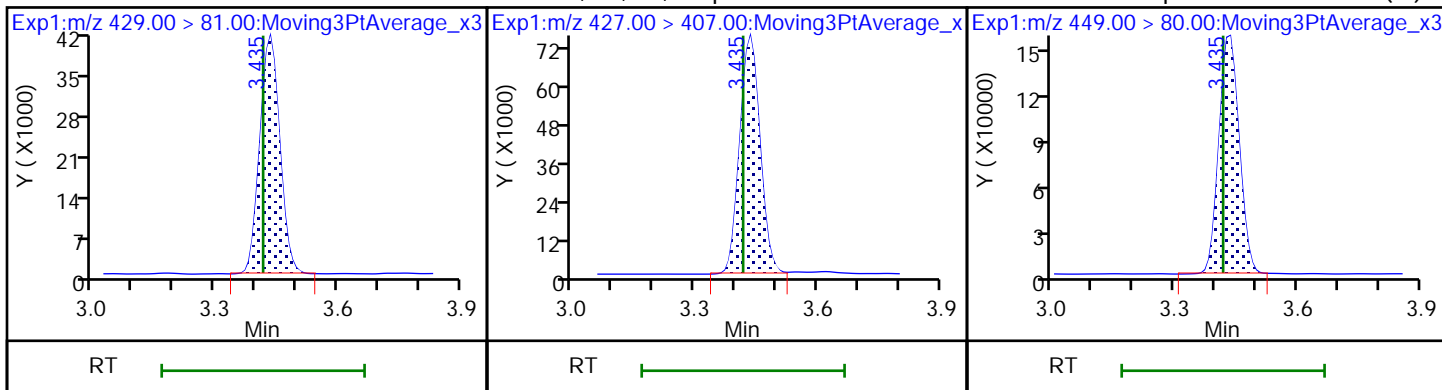




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

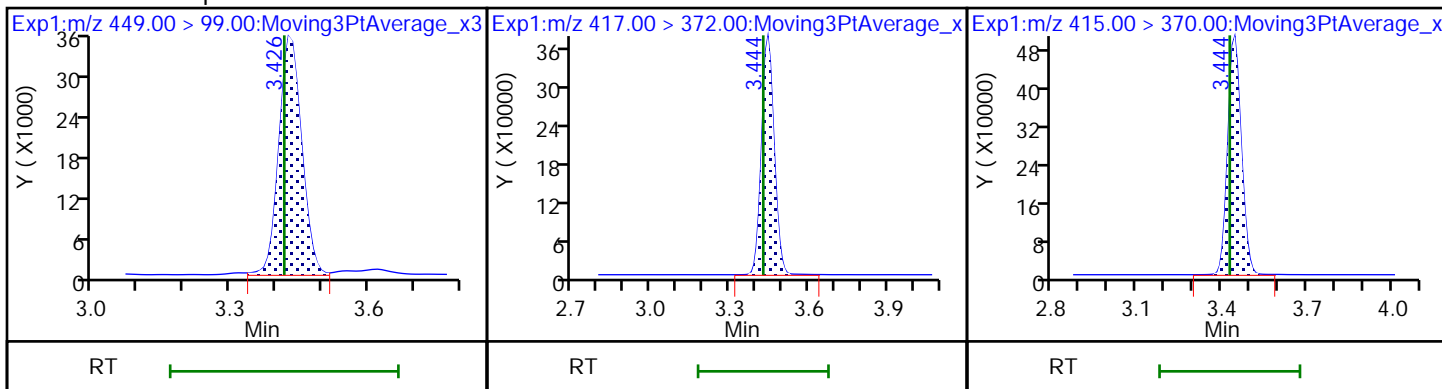
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

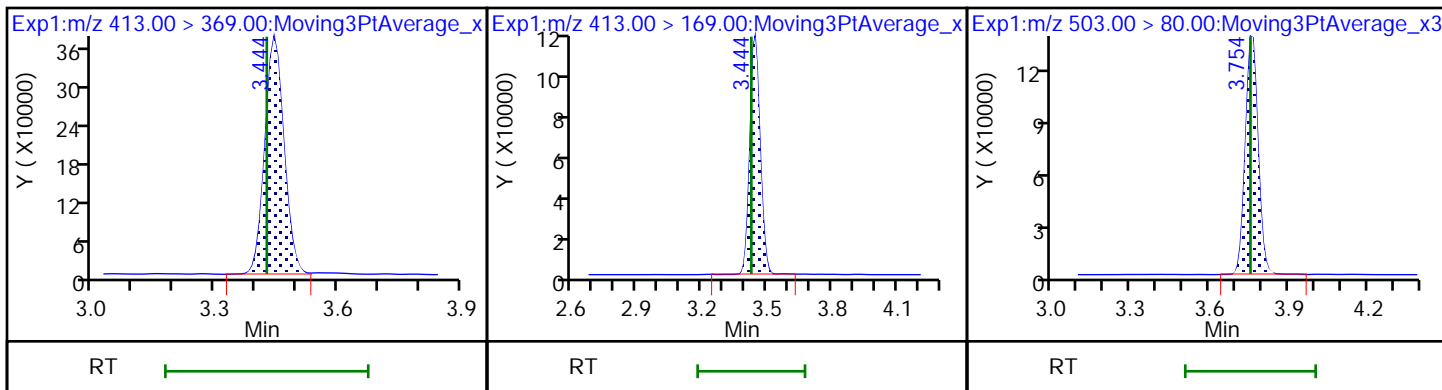
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

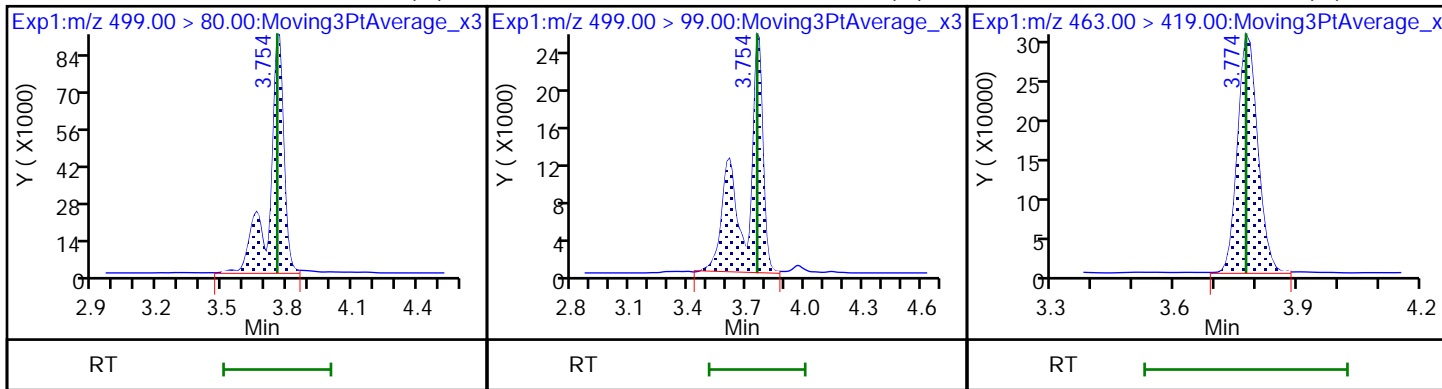
D 18 13C4 PFOS

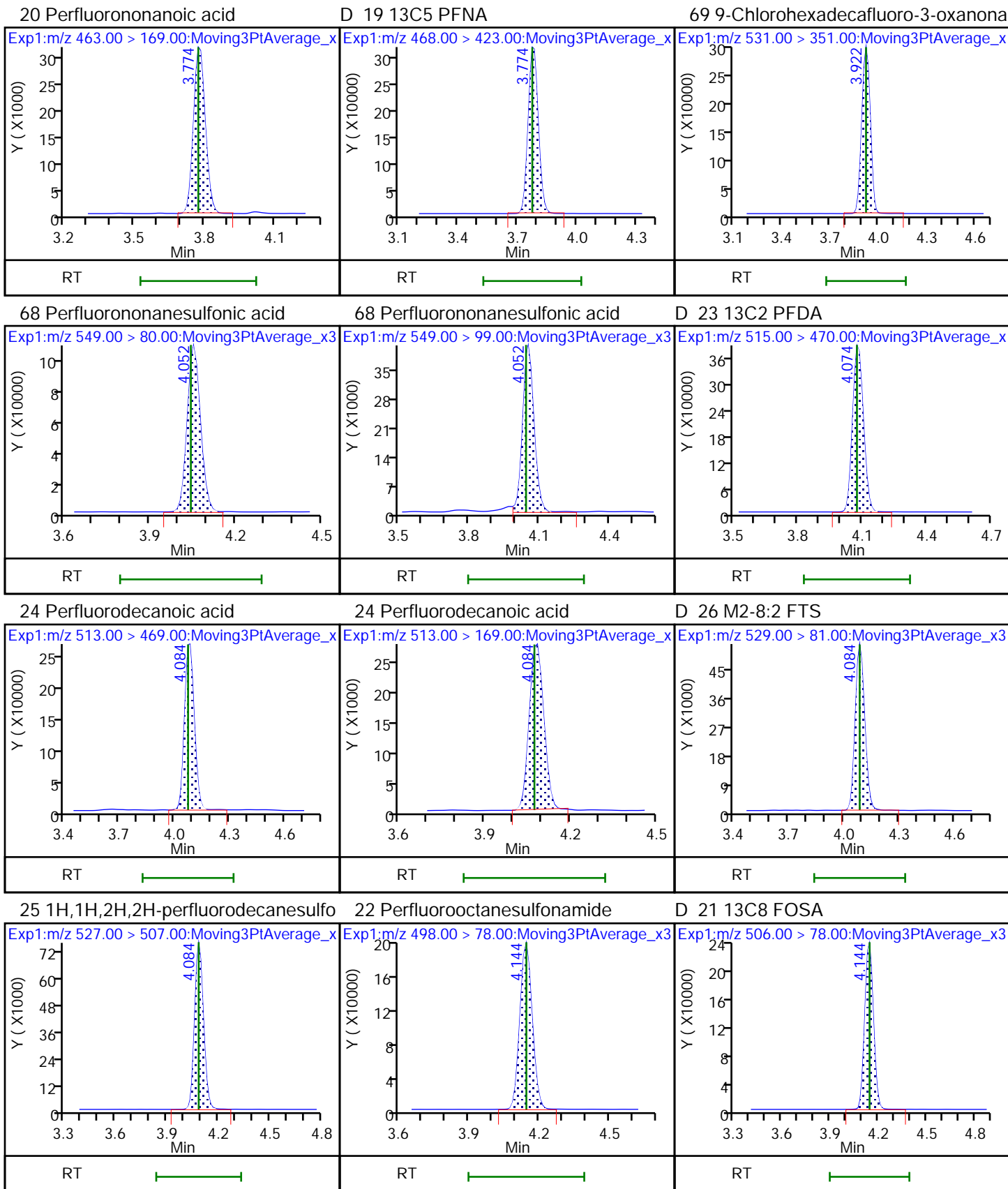


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

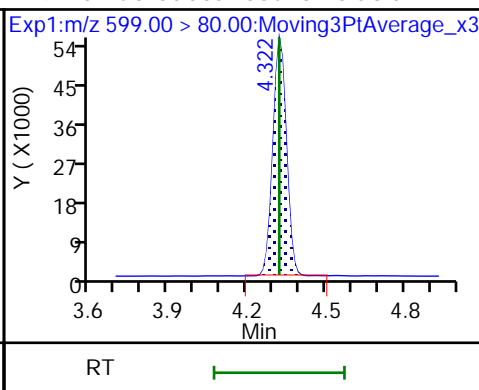
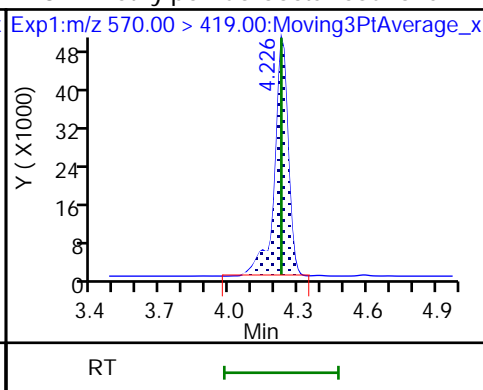
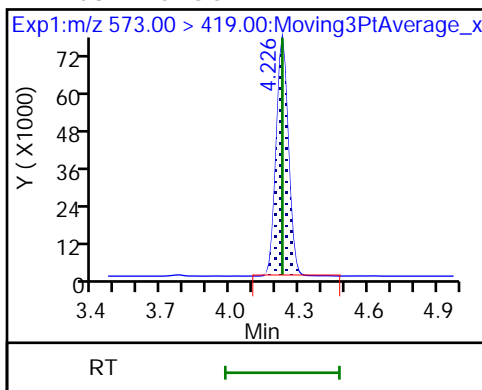




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

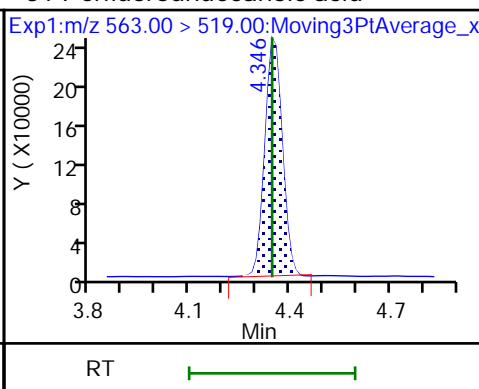
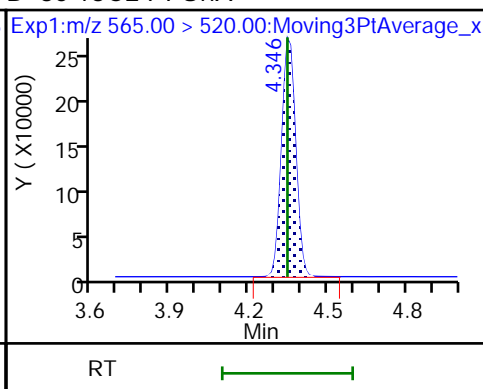
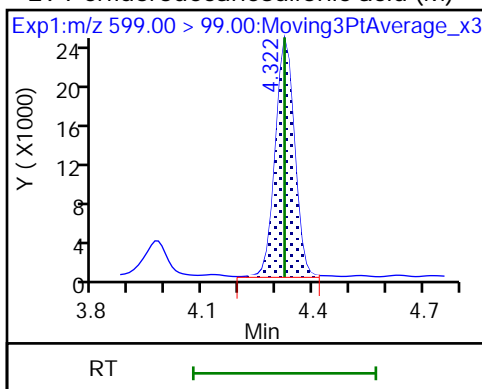
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

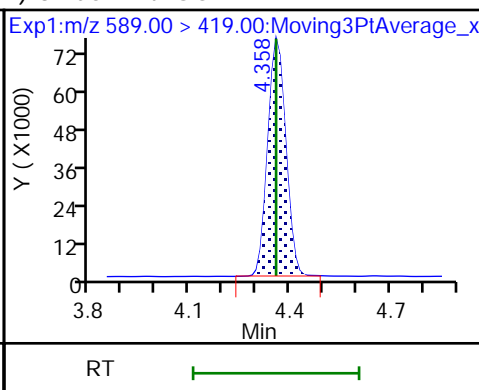
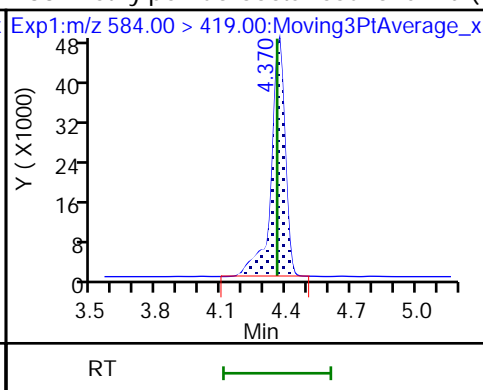
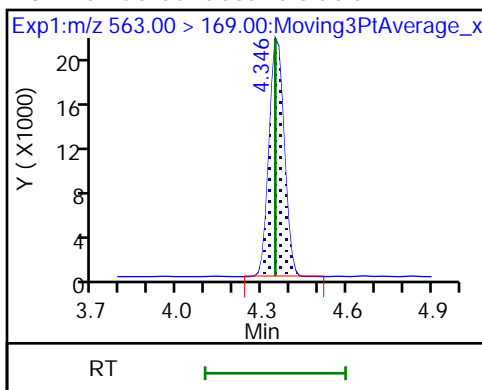
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (N)

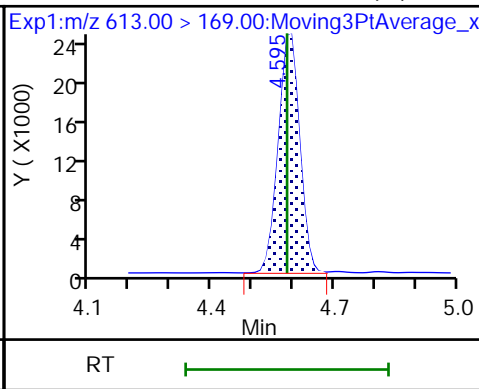
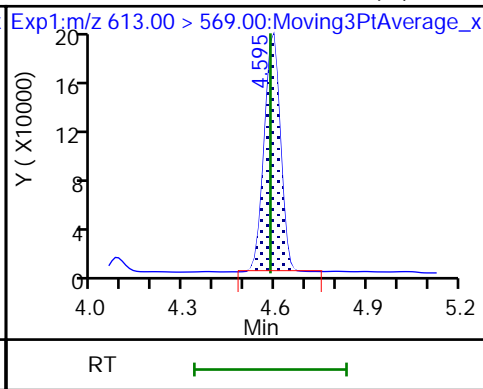
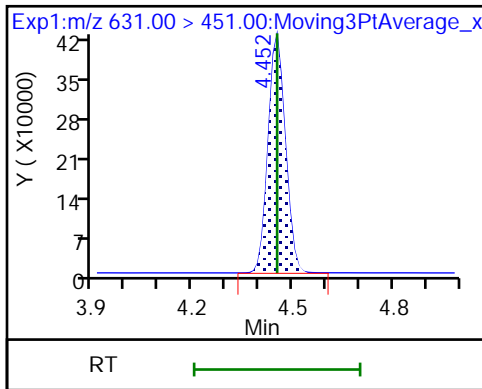
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

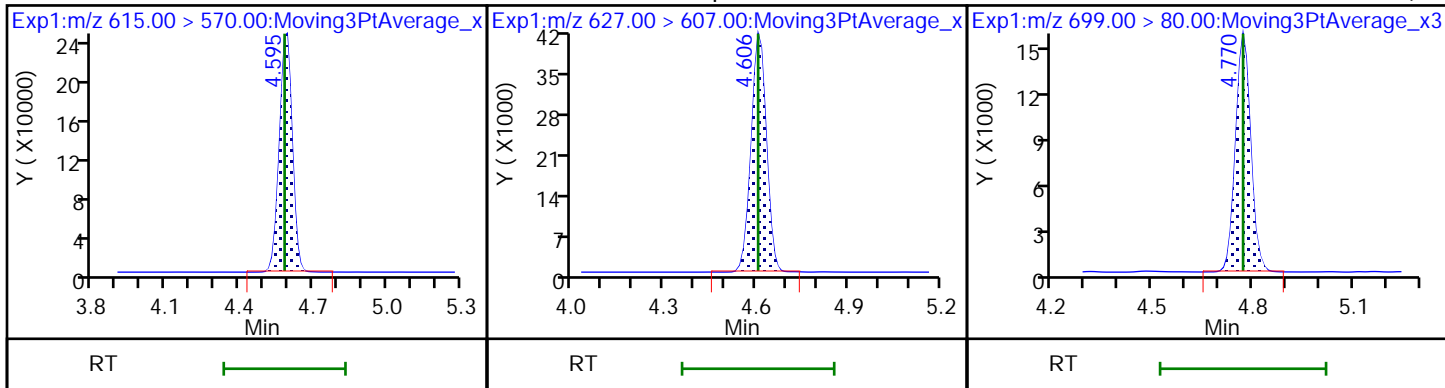
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

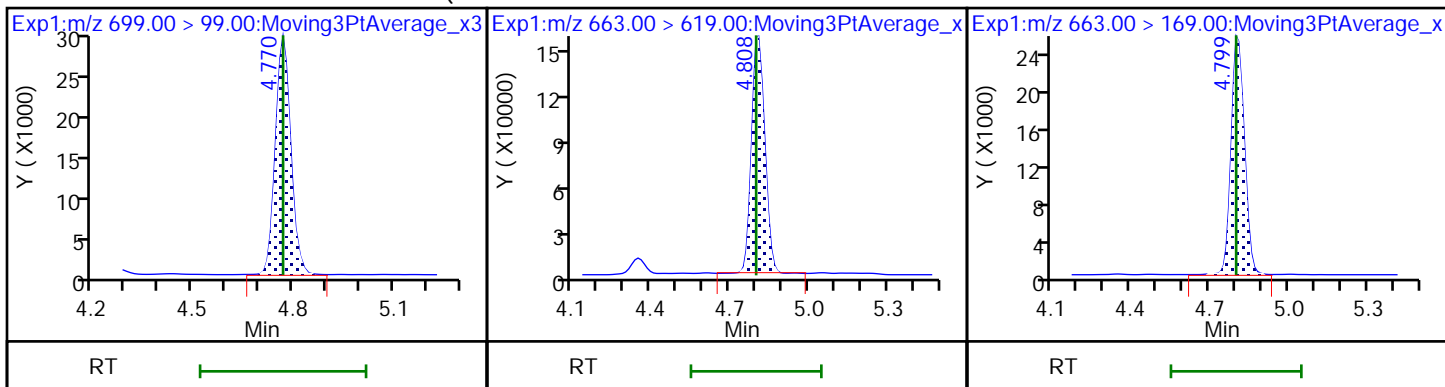
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

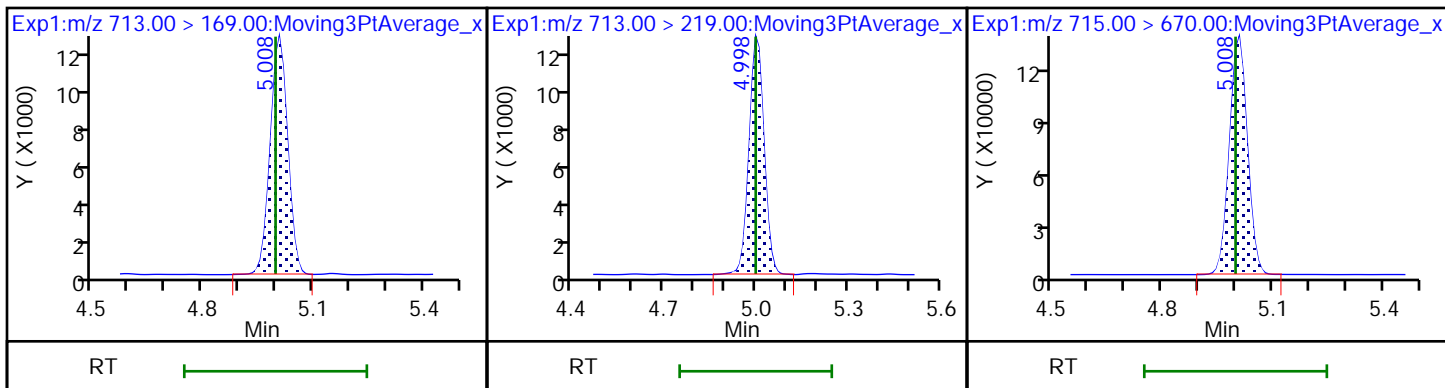
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

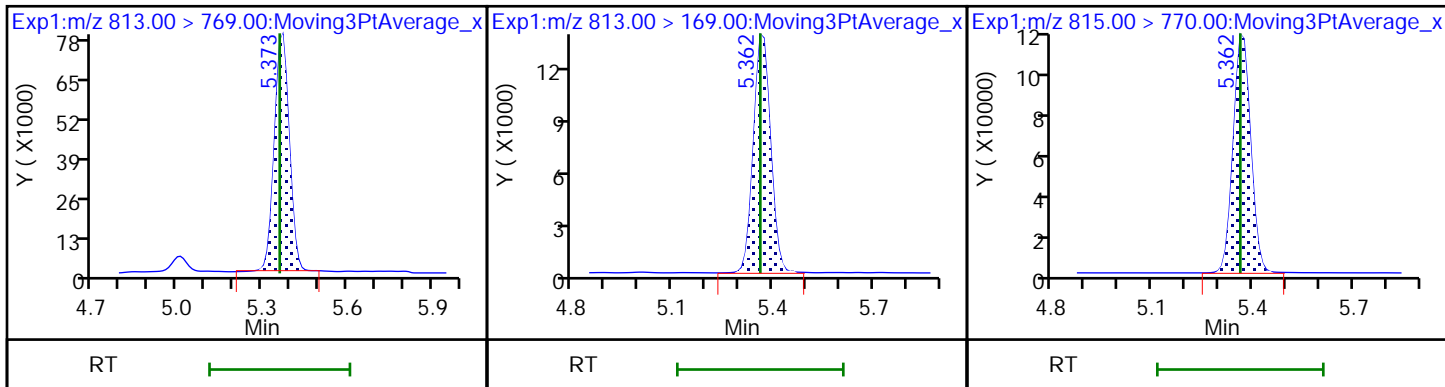
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

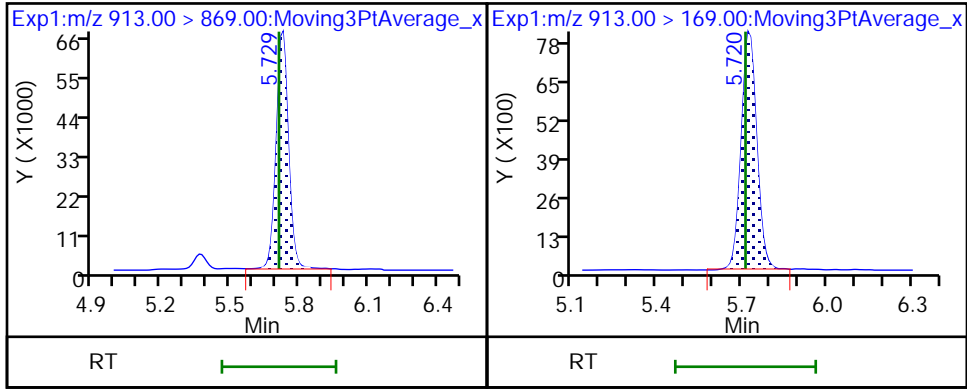
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



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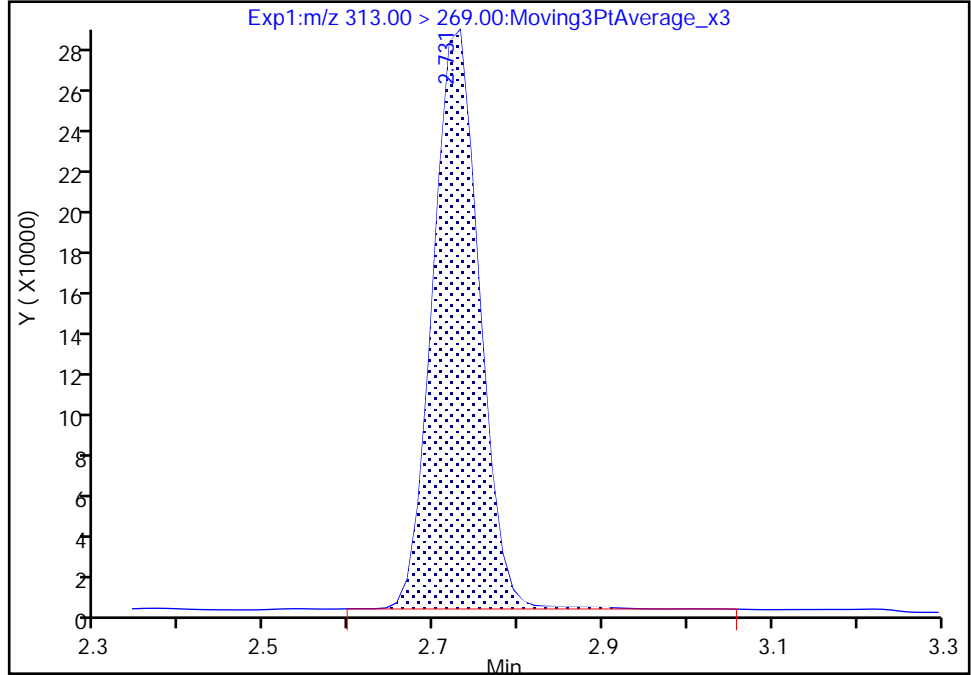
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Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

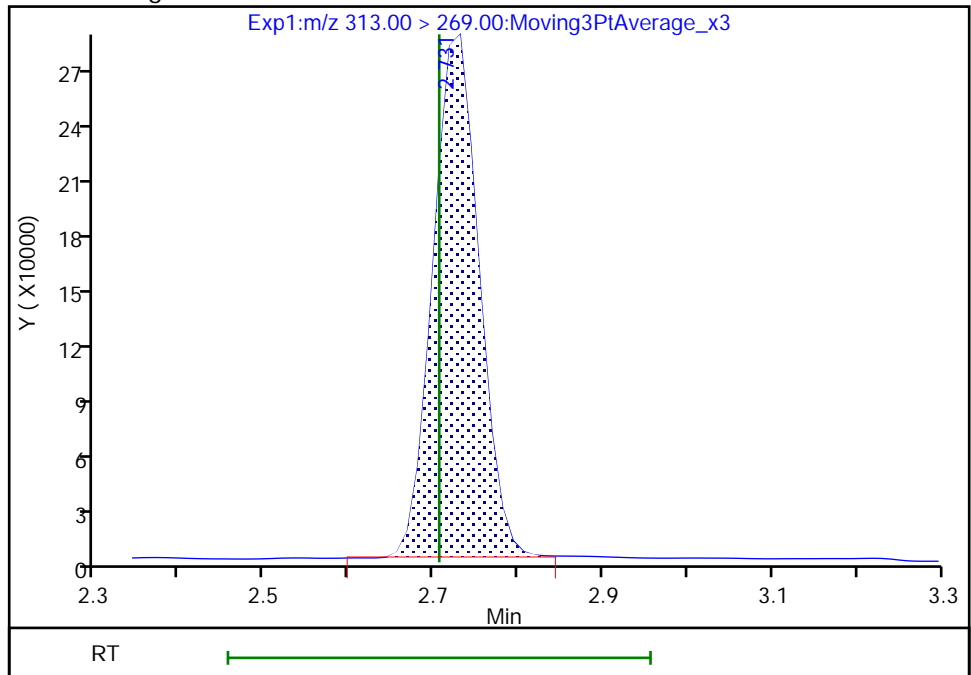
RT: 2.73
Area: 1072751
Amount: 1.162742
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1067628
Amount: 1.157189
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:39:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

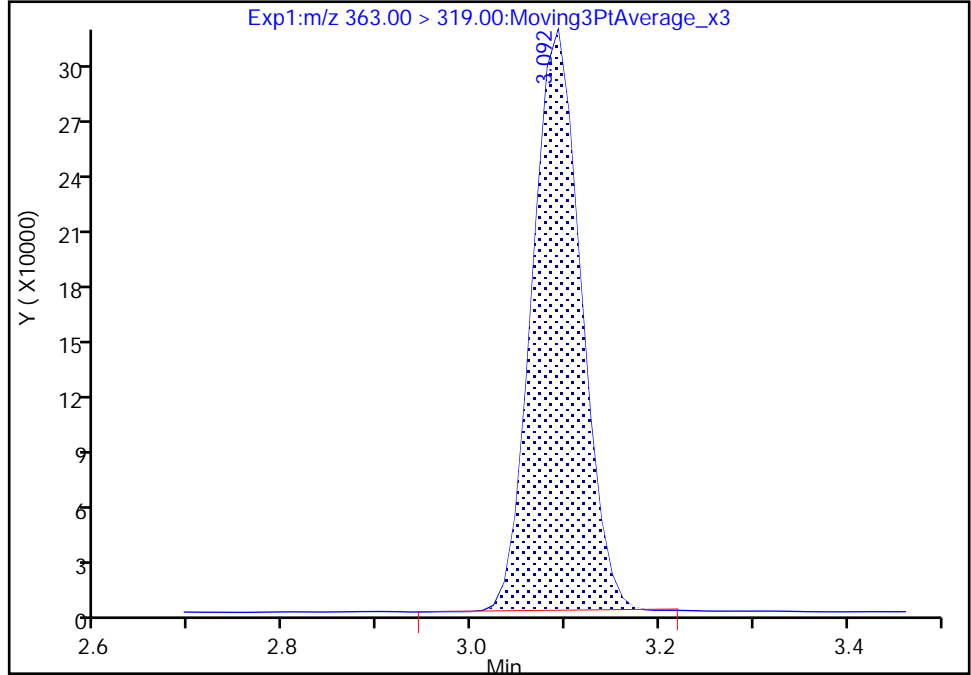
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Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

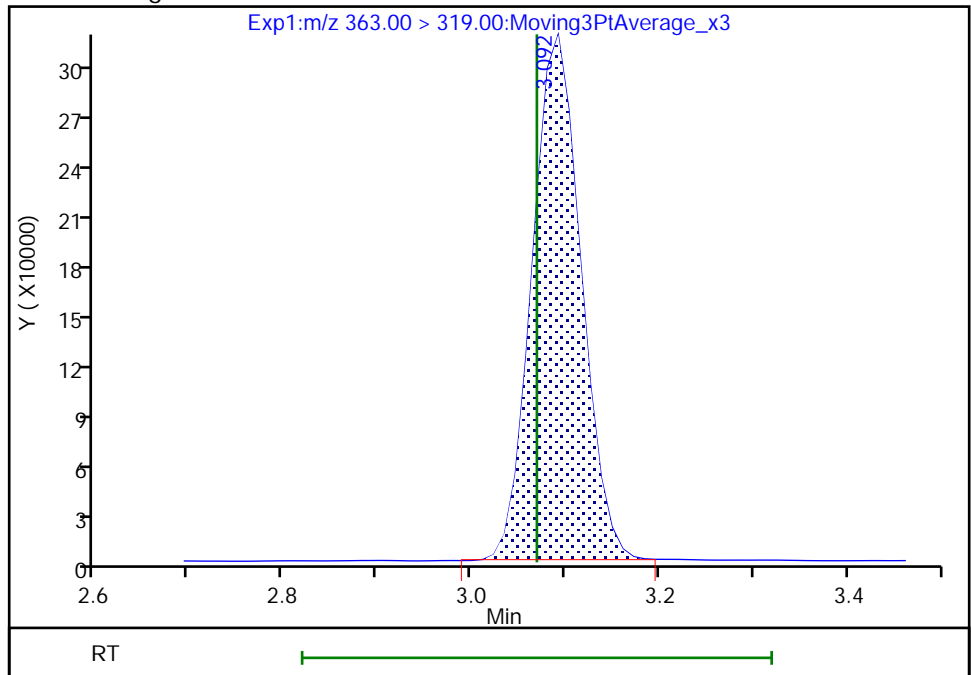
RT: 3.09
Area: 1150109
Amount: 1.133346
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1152127
Amount: 1.135335
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:40:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

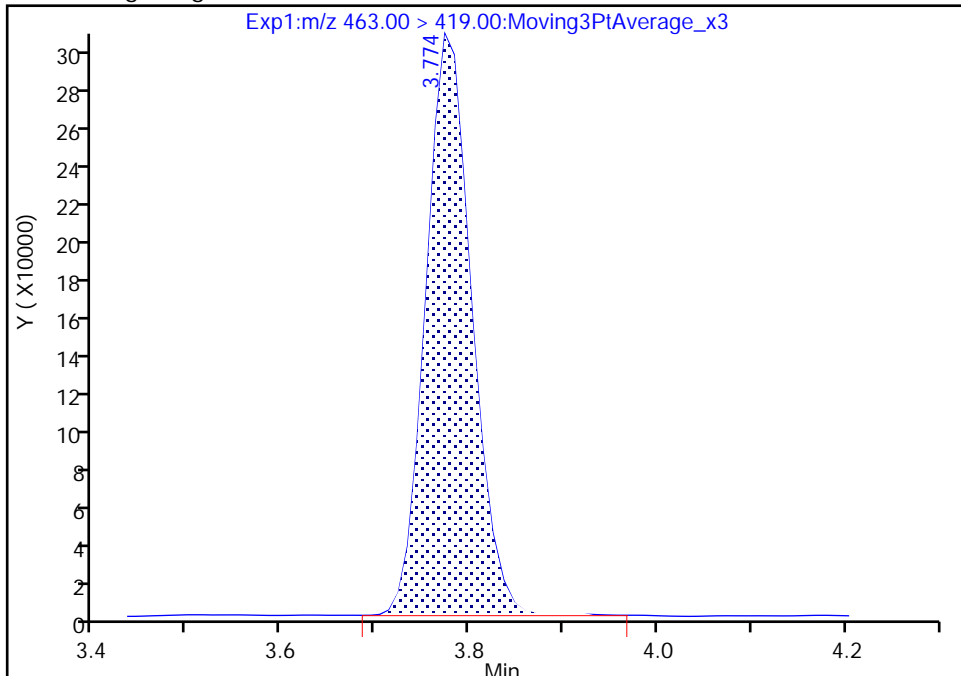
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

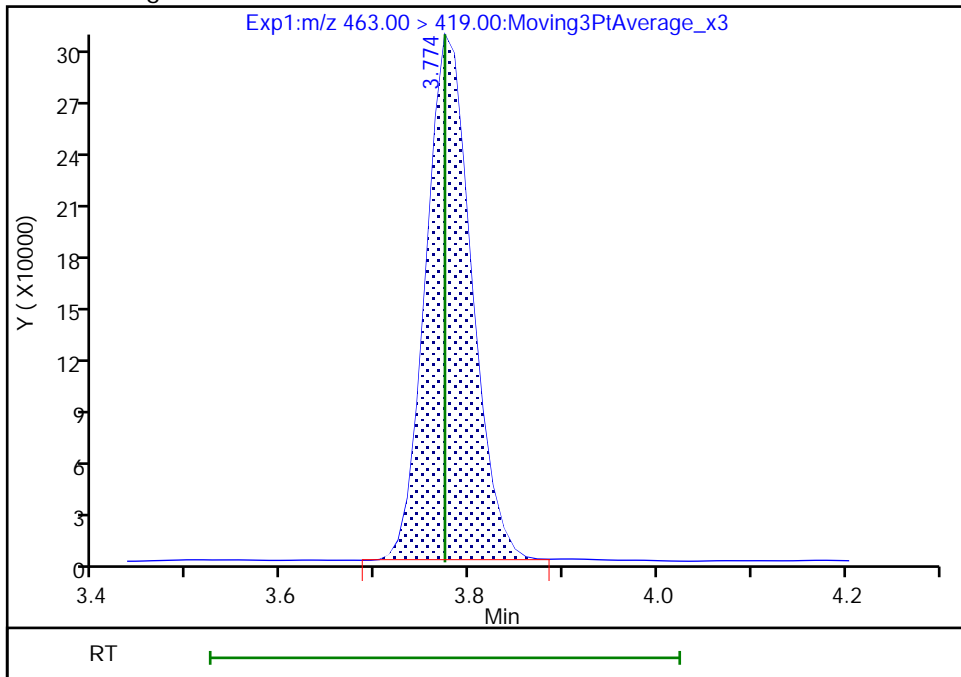
RT: 3.77
Area: 1028179
Amount: 1.104645
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 1027898
Amount: 1.104344
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:41:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

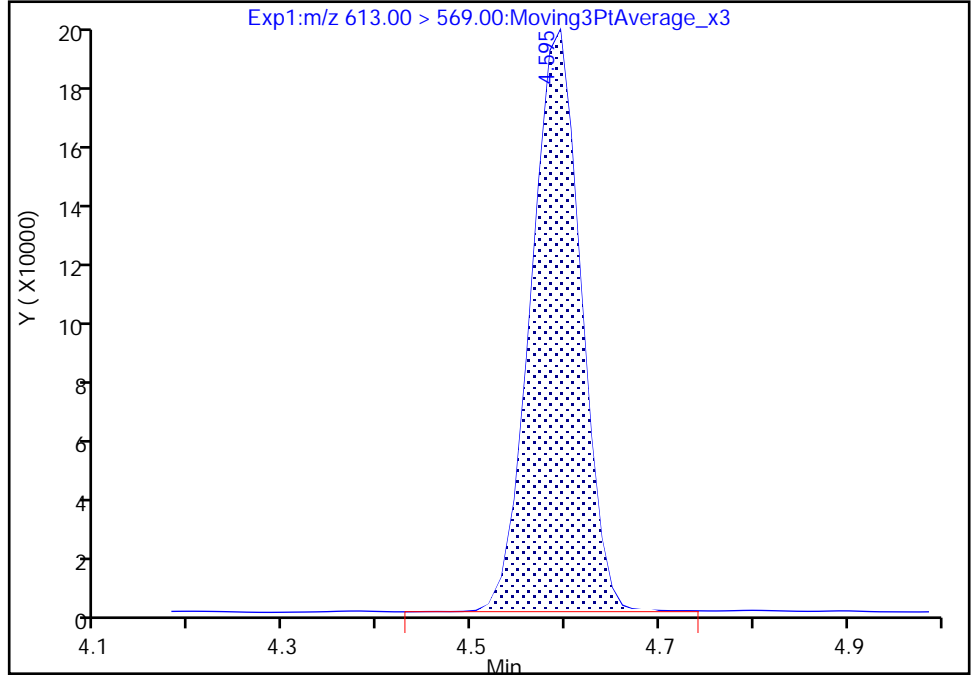
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

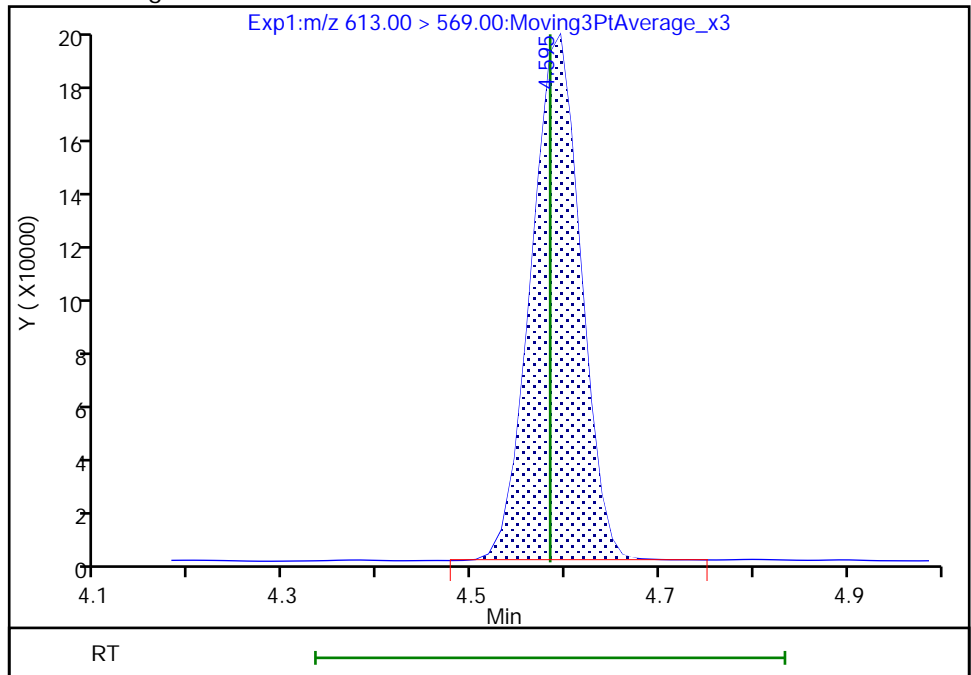
RT: 4.59
Area: 705837
Amount: 0.966497
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 704389
Amount: 0.964514
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:42:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

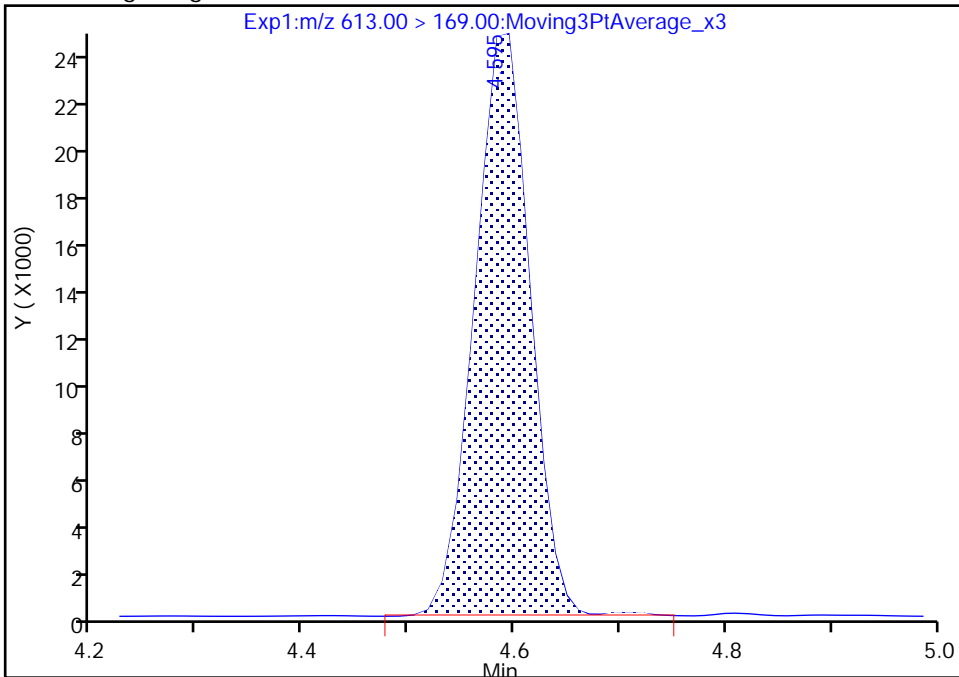
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

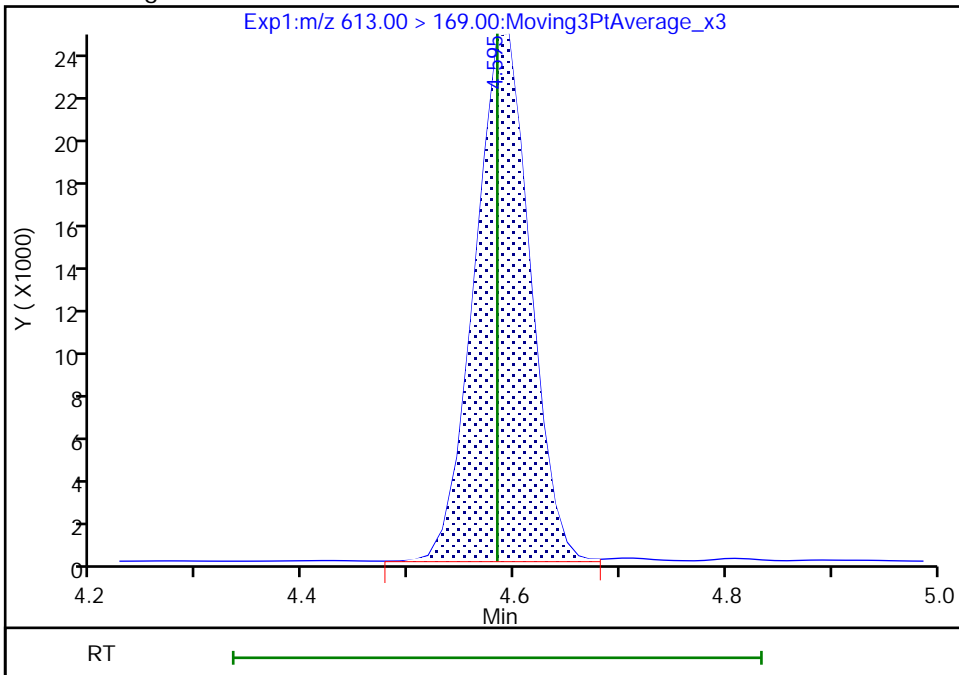
RT: 4.59
Area: 89806
Amount: 0.966497
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 89567
Amount: 0.964514
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:42:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

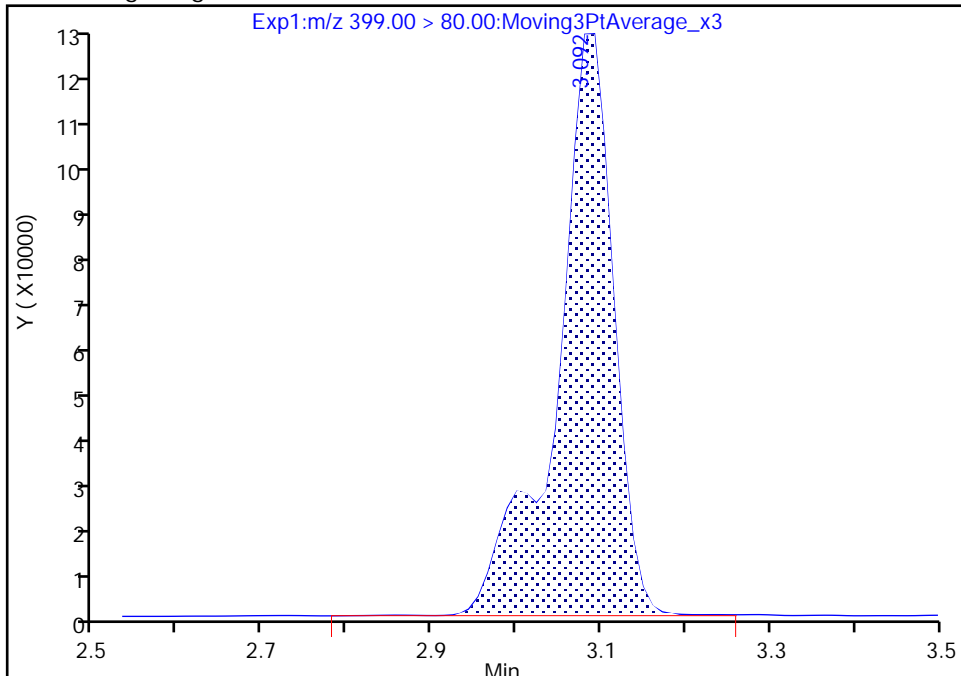
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

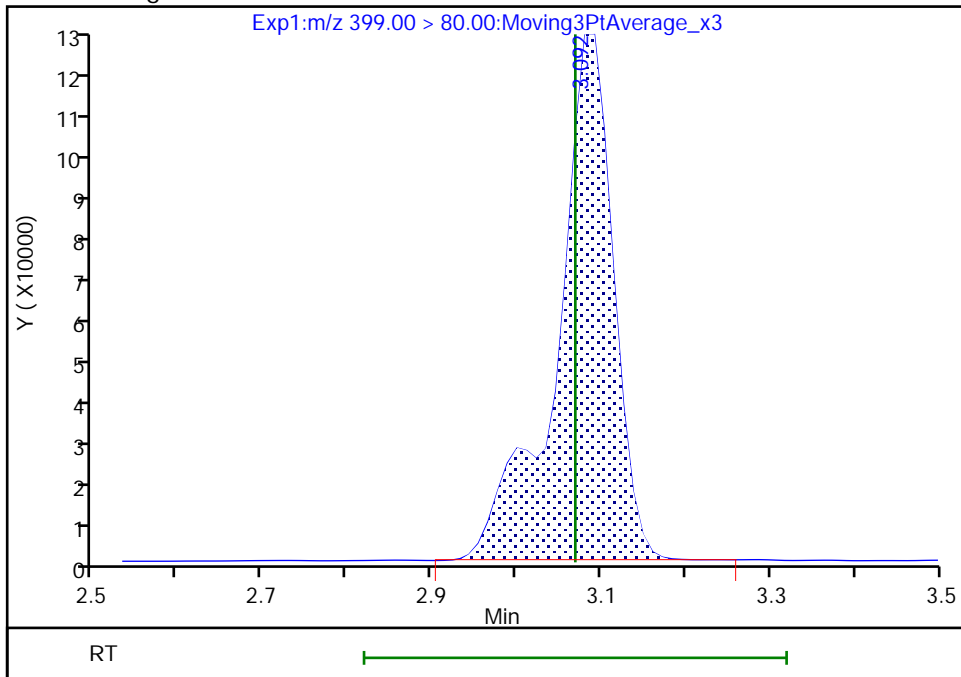
RT: 3.09
Area: 570732
Amount: 0.943413
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 570339
Amount: 0.942763
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:39:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

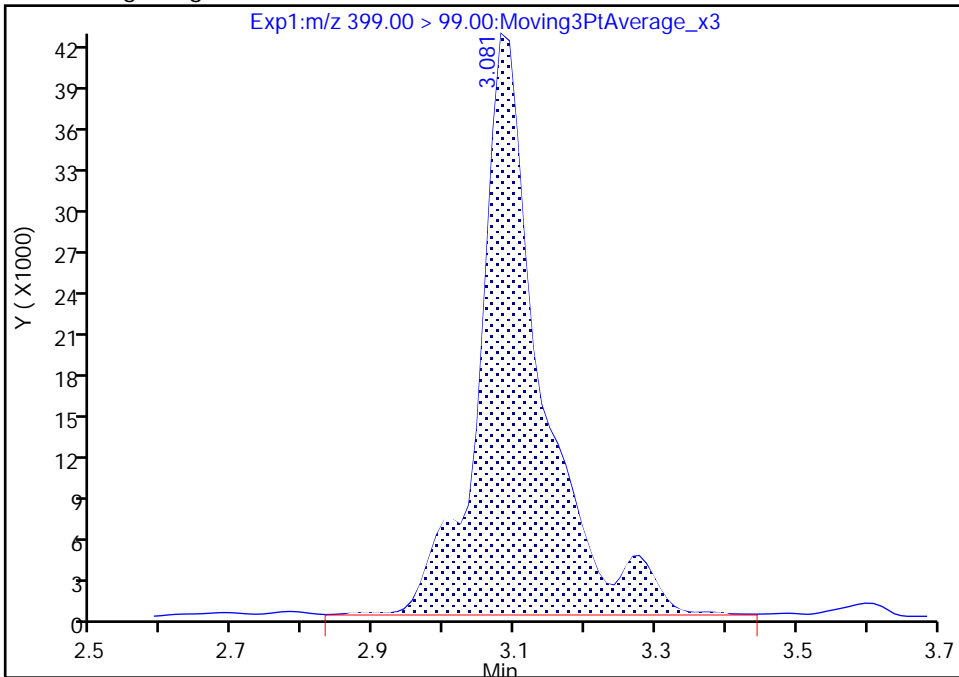
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

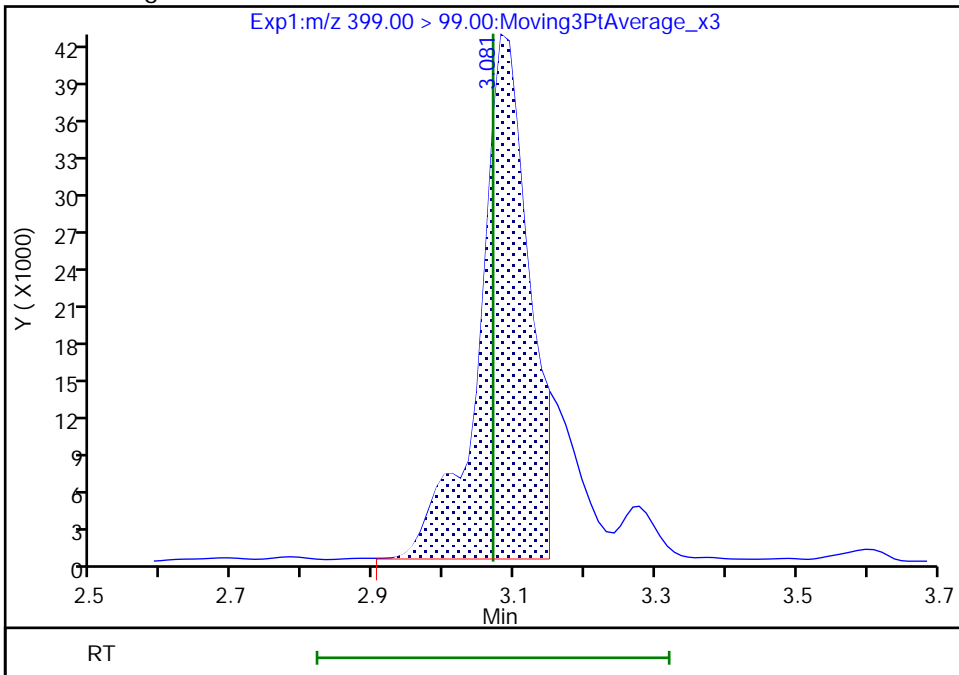
RT: 3.08
Area: 261629
Amount: 0.943413
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 206242
Amount: 0.942763
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:39:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

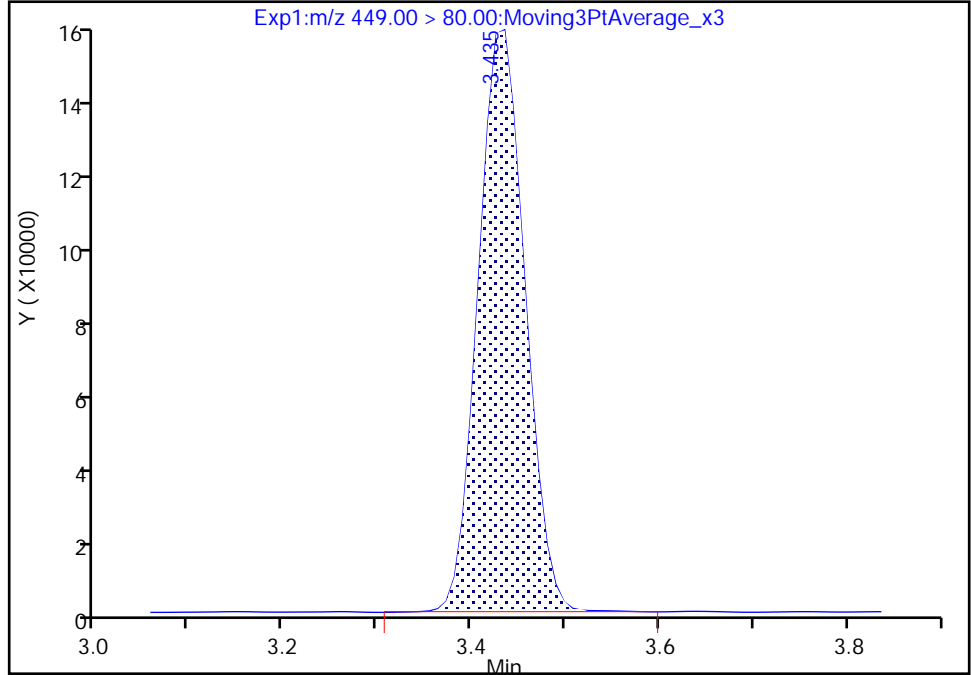
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

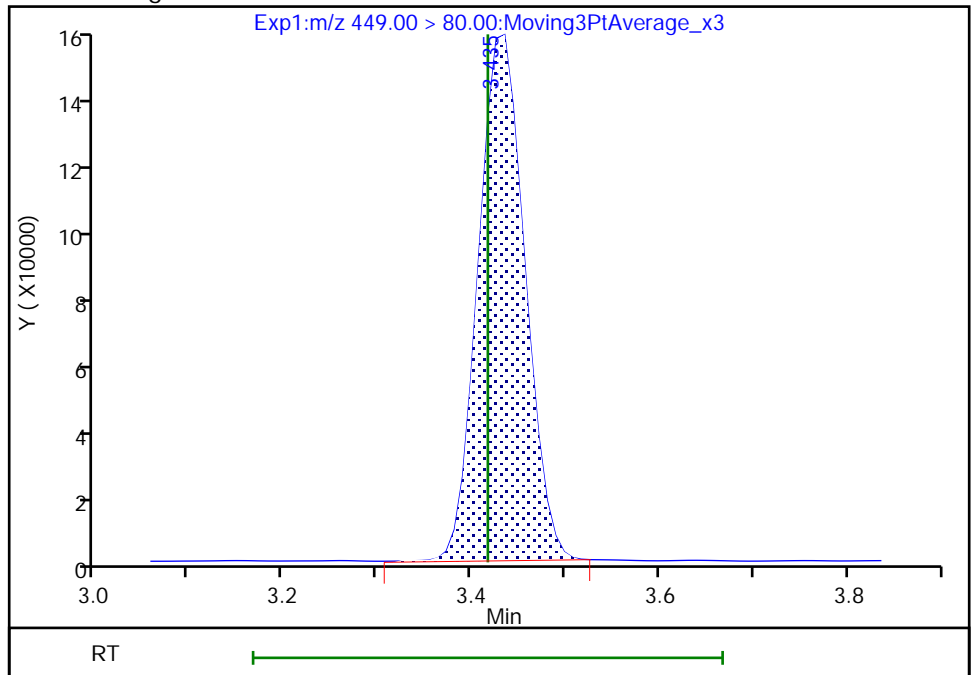
RT: 3.44
Area: 553396
Amount: 0.976319
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 552532
Amount: 0.974795
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:40:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

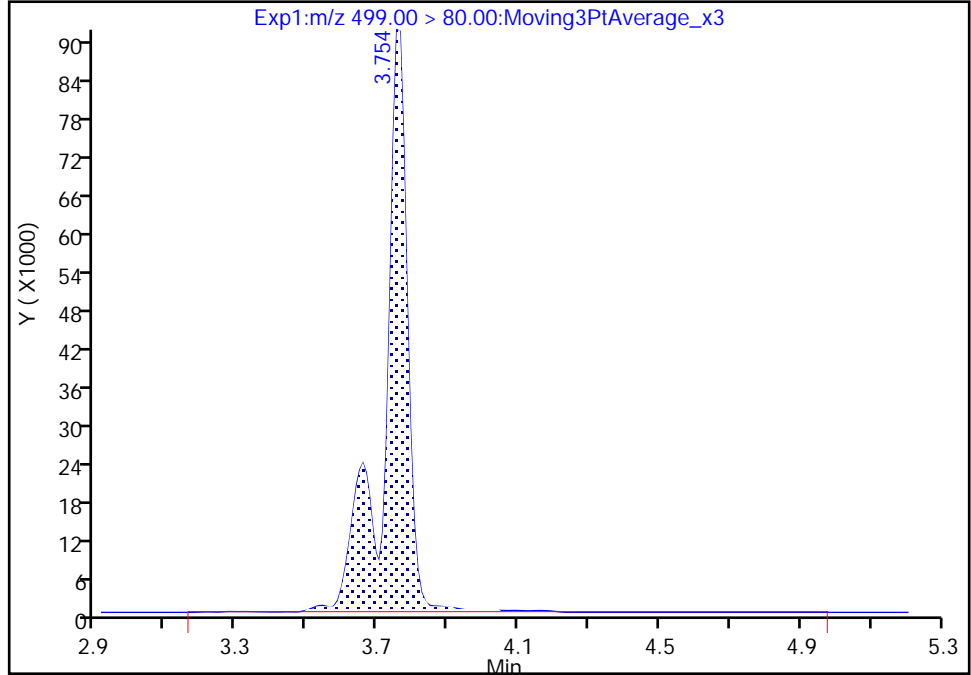
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

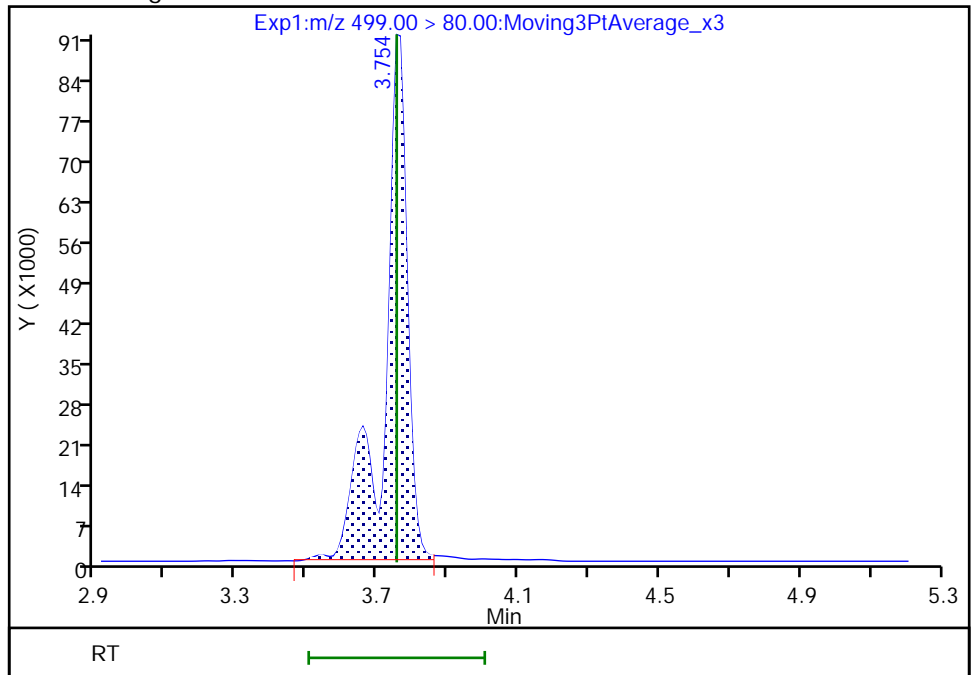
RT: 3.75
Area: 430120
Amount: 0.908928
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 416910
Amount: 0.881013
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:40:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

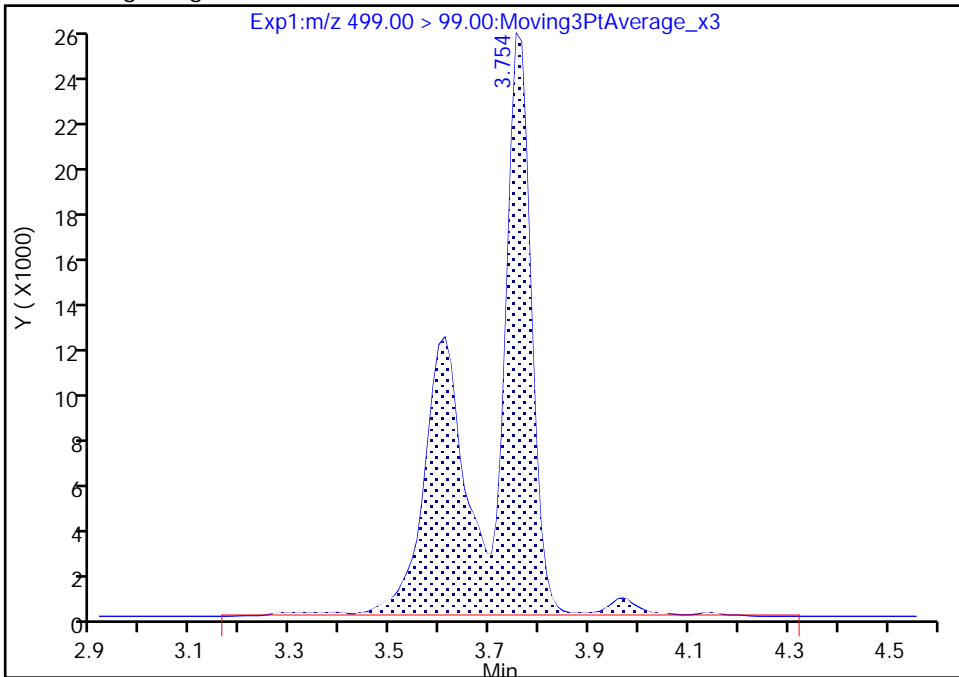
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Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

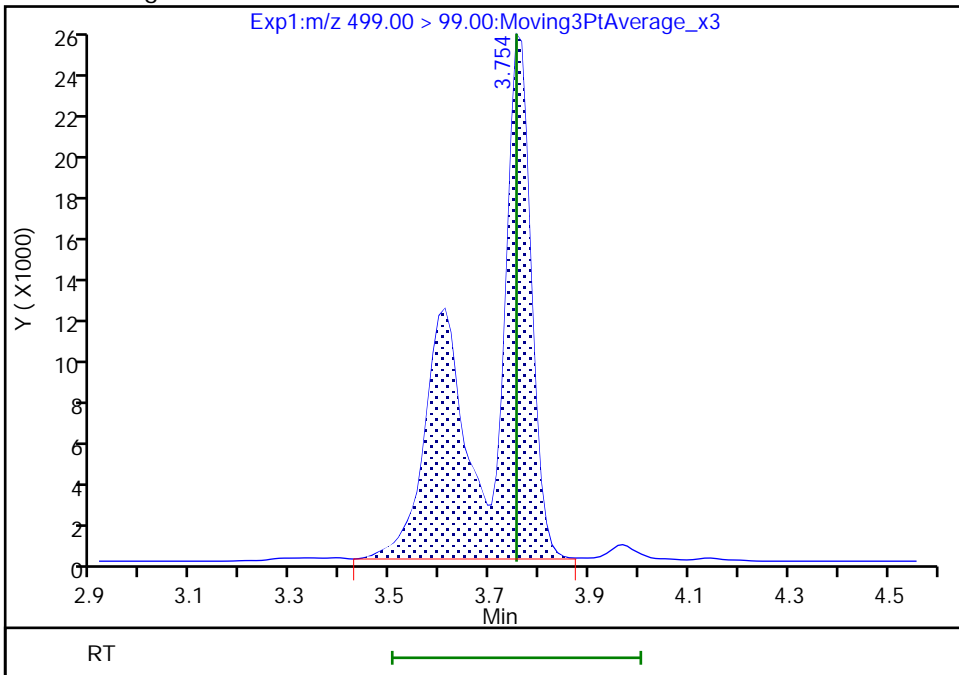
RT: 3.75
Area: 168692
Amount: 0.908928
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 159771
Amount: 0.881013
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:41:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

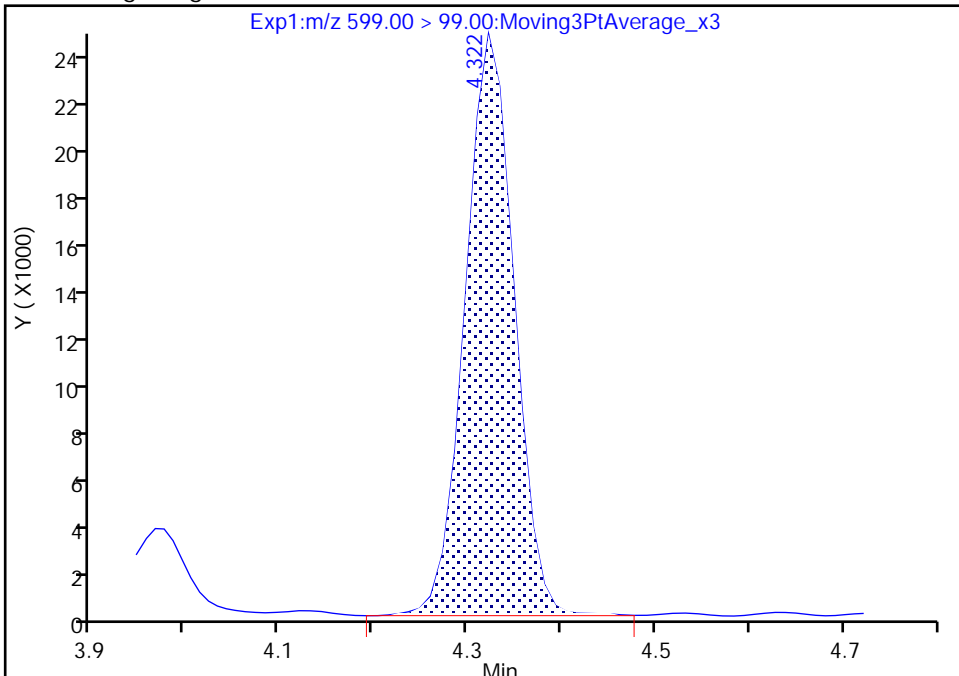
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Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

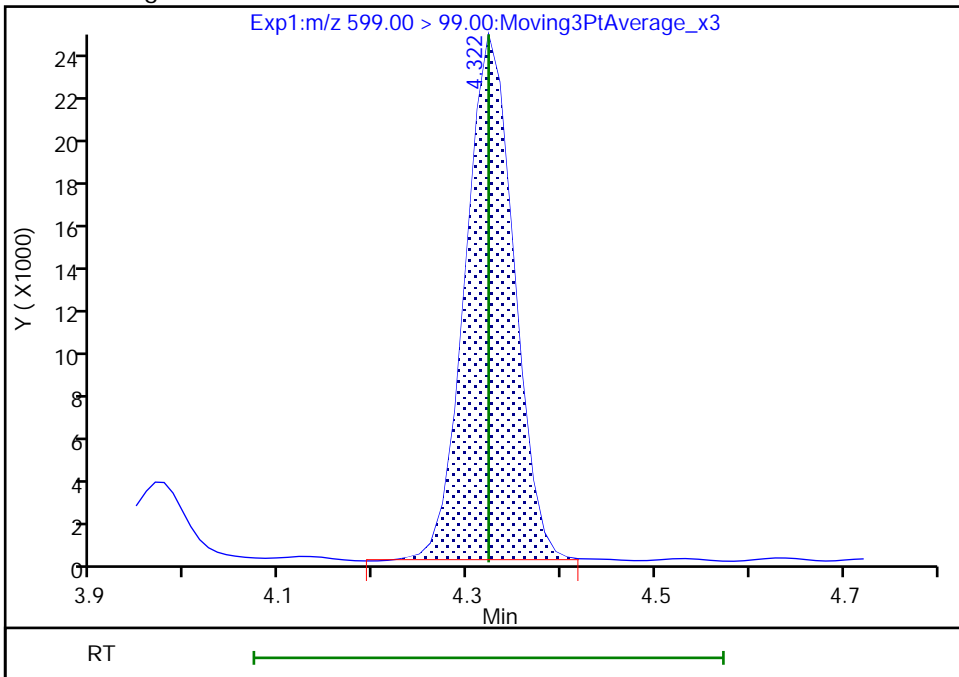
RT: 4.32
Area: 88005
Amount: 0.681860
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 87212
Amount: 0.681860
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:42:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

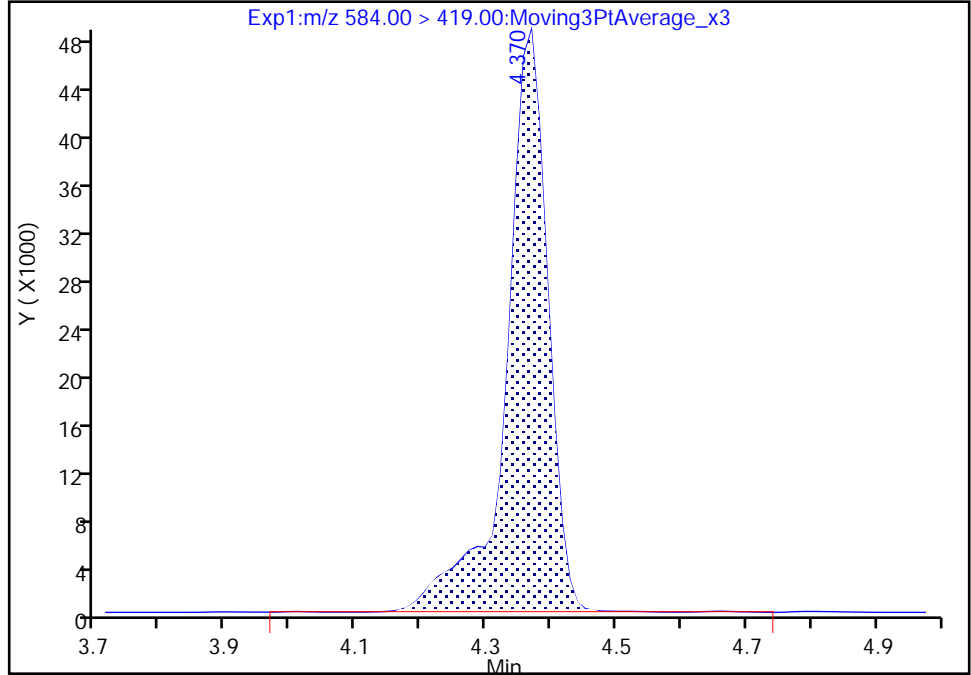
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A17.d
Injection Date: 26-Jan-2023 21:57:03 Instrument ID: LC812
Lims ID: 460-273176-A-1-C MSD
Client ID: BCS-09-60_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

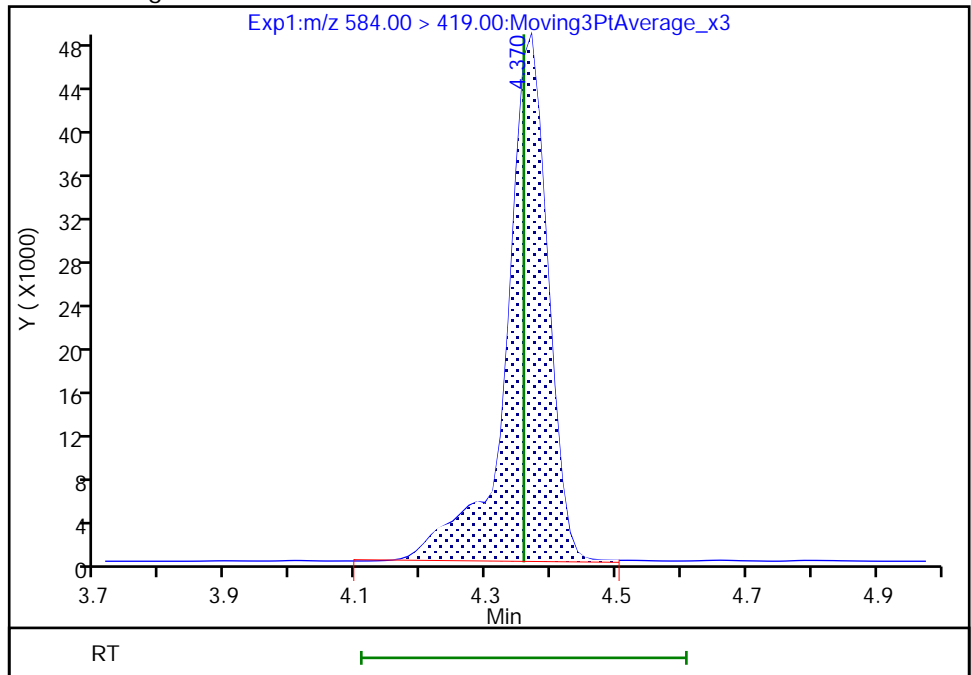
RT: 4.37
Area: 220165
Amount: 1.043916
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 218597
Amount: 1.036481
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:42:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-63_(15-15.5)P MSD Lab Sample ID: 460-273176-4 MSD
 Matrix: Solid Lab File ID: PA230126A23.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.16(g) Date Analyzed: 01/26/2023 22:46
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 53.5 % Solids: 46.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.105		1.04	0.69
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.580		0.42	0.11
307-24-4	Perfluorohexanoic acid (PFHxA)	3.903		0.42	0.096
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.096		0.42	0.081
335-67-1	Perfluorooctanoic acid (PFOA)	3.409		0.42	0.12
375-95-1	Perfluorononanoic acid (PFNA)	3.732		0.42	0.071
335-76-2	Perfluorodecanoic acid (PFDA)	3.927		0.42	0.058
2058-94-8	Perfluoroundecanoic acid (PFUnA)	4.026		0.42	0.056
307-55-1	Perfluorododecanoic acid (PFDoA)	3.697		0.42	0.052
72629-94-8	Perfluorotridecanoic acid (PFTriA)	3.473		0.42	0.052
376-06-7	Perfluorotetradecanoic acid (PFTeA)	4.049		0.42	0.054
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.513		0.42	0.069
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.782		0.42	0.085
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	3.622		0.42	0.048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.547		0.42	0.23
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.989		0.42	0.040
754-91-6	Perfluorooctanesulfonamide (FOSA)	4.049		0.42	0.071
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.649		4.17	0.23
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.091	J	4.17	0.17
27619-97-2	6:2 FTS	4.140	J	4.17	0.12
39108-34-4	8:2 FTS	4.287		4.17	0.077

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1
 SDG No.: _____
 Client Sample ID: BCS-09-63_(15-15.5)P MSD Lab Sample ID: 460-273176-4 MSD
 Matrix: Solid Lab File ID: PA230126A23.d
 Analysis Method: 537 (modified) Date Collected: 01/18/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.16(g) Date Analyzed: 01/26/2023 22:46
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 53.5 % Solids: 46.5 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	60		50-150
STL01892	13C4 PFHpA	70		50-150
STL00990	13C4 PFOA	86		50-150
STL00991	13C4 PFOS	72		50-150
STL00995	13C5 PFNA	85		50-150
STL00992	13C4 PFBA	81		50-150
STL00993	13C2 PFHxA	81		50-150
STL00996	13C2 PFDA	81		50-150
STL00997	13C2 PFUnA	72		50-150
STL00998	13C2 PFDoA	75		50-150
STL01056	13C8 FOSA	54		50-150
STL01893	13C5 PFPeA	83		50-150
STL02116	13C2 PFTeDA	63		50-150
STL02118	d3-NMeFOSAA	86		50-150
STL02117	d5-NEtFOSAA	101		50-150
STL02279	M2-6:2 FTS	90		50-150
STL02280	M2-8:2 FTS	114		50-150
STL02337	13C3 PFBS	68		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A23.d
 Lims ID: 460-273176-A-4-C MSD
 Client ID: BCS-09-63_(15-15.5)P
 Sample Type: MSD
 Inject. Date: 26-Jan-2023 22:46:02 ALS Bottle#: 20 Worklist Smp#: 23
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273176-A-4-C MSD
 Misc. Info.: 200-0054135-023 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 30-Jan-2023 16:20:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: SJ4N Date: 27-Jan-2023 18:26:05

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.094	2.094	0.0	0.609	1584401	1.01	80.9	10244	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.094	0.0	1.000	1234997	0.9850		98.5	117	M
D 3 13C5 PFPeA	267.90 > 223.00	2.397	2.370	0.027	0.698	1315642	1.04	83.1	3674	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.397	2.370	0.027	1.000	1035411	0.8590		85.9	18.6	M
D 47 13C3 PFBS	301.90 > 80.00	2.411	2.384	0.027	0.702	1103734	0.7941	68.3	66939	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.411	2.384	0.027	1.000	857367	0.8429	Target=2.10	95.4	229	M
298.90 > 99.00	2.411	2.384	0.027	1.000	413916		2.07(1.05-3.15)		12.9	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.694	2.669	0.025	1.000	277349	1.07	115	175	
D 60 M2-4:2 FTS	329.00 > 81.00	2.694	2.669	0.025	0.784	102304	0.9103	78.0	40.4	M
D 7 13C2 PFHxA	315.00 > 270.00	2.719	2.694	0.025	0.791	1335953	1.02	81.2	6255	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.731	2.706	0.025	1.005	1054502	0.9365	Target=13.16	93.7	90.9	M
313.00 > 119.00	2.719	2.706	0.013	1.000	82222		12.83(6.58-19.74)		72.1	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.886	799285	1.07	Target=2.90	114	235
349.00 > 99.00	2.731	2.706	0.025	0.886	256786		3.11(1.45-4.35)		122	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.831	2.806	0.025	1.000	185202	1.19		119	2696

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.831	2.806	0.025	0.824	195182	0.8563		68.5	2491	
D 11 18O2 PFHxS										
403.00 > 84.00	3.081	3.069	0.012	0.897	713555	0.7055		59.7	4669	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.081	3.069	0.012	1.000	601132	0.9076	Target=3.18	99.7	169	M
399.00 > 99.00	3.081	3.069	0.012	1.000	264159		2.28(1.59-4.77)	11.2		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.081	3.069	0.012	0.897	1150668	0.8736		69.9	8805	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.081	3.069	0.012	1.000	1198694	1.22	Target=4.10	122	137	M
363.00 > 169.00	3.081	3.069	0.012	1.000	286481		4.18(2.05-6.16)		768	
77 DONA										
377.00 > 251.00	3.127	3.104	0.023	0.835	2463691	0.9722	Target=2.96	103	2036	
377.00 > 85.00	3.115	3.104	0.011	0.832	792517		3.11(1.48-4.44)		1274	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.418	3.417	0.001	0.995	170029	1.07		89.8	104	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.427	3.417	0.010	1.003	325712	0.99		105	459	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.418	3.417	0.001	0.913	558821	0.8690	Target=4.59	91.3	201	M
449.00 > 99.00	3.418	3.417	0.001	0.913	135385		4.13(2.30-6.89)		48.7	M
D 14 13C4 PFOA										
417.00 > 372.00	3.436	3.426	0.010	1.000	1508380	1.08		86.5	6877	
* 62 13C2 PFOA										
415.00 > 370.00	3.436	3.426	0.010		1702849	1.25			5242	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.436	3.426	0.010	1.000	1074197	0.8180	Target=2.71	81.8	82.8	M
413.00 > 169.00	3.436	3.426	0.010	1.000	362598		2.96(1.36-4.07)		698	M
D 18 13C4 PFOS										
503.00 > 80.00	3.744	3.754	-0.010	1.089	528086	0.8588		71.9	325	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.744	3.754	-0.010	1.000	456993	0.8513	Target=4.23	91.7	207	M
499.00 > 99.00	3.744	3.754	-0.010	1.000	215729		2.12(2.11-6.34)		37.9	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.763	3.774	-0.011	1.000	1052446	0.8955	Target=8.78	89.5	173	
463.00 > 169.00	3.763	3.774	-0.011	1.000	128681		8.18(4.39-13.17)		381	
D 19 13C5 PFNA										
468.00 > 423.00	3.763	3.774	-0.011	1.095	1438170	1.06		84.6	5514	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.909	3.922	-0.013	1.044	1134131	0.8850		95.0	3402	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.033	4.043	-0.010	1.077	382478	0.8578	Target=2.37	89.4	275	M
549.00 > 99.00	4.033	4.043	-0.010	1.077	158187		2.42(1.18-3.55)		55.0	M
D 23 13C2 PFDA										
515.00 > 470.00	4.063	4.074	-0.011	1.182	1409727	1.01		80.9	9454	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.063	4.074	-0.011	1.000	1136368	0.9424	Target=11.13	94.2	216	
513.00 > 169.00	4.063	4.074	-0.011	1.000	116912		9.72(5.56-16.69)		424	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.074	4.085	-0.011	1.185	271618	1.36		114	74.2	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.074	4.085	-0.011	1.000	423326	1.03		107	3357	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.132	4.144	-0.012	1.003	600698	0.9715		97.2	1774	
D 21 13C8 FOSA										
506.00 > 78.00	4.120	4.144	-0.024	1.199	768493	0.6780		54.2	3833	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.204	4.226	-0.022	1.223	295820	1.08		86.3	1260	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.215	4.226	-0.011	1.003	238038	1.12		112	872	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.322	-0.012	1.151	238371	0.7172	Target=2.45	74.4	181	
599.00 > 99.00	4.310	4.322	-0.012	1.151	93590		2.55(1.23-3.68)		38.0	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.334	4.346	-0.012	1.261	1086055	0.9023		72.2	5727	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.334	4.346	-0.012	1.000	916434	0.9662	Target=10.33	96.6	258	M
563.00 > 169.00	4.334	4.346	-0.012	1.000	82150		11.16(5.17-15.50)		611	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.346	4.358	-0.012	1.000	243521	0.9817		98.2	1099	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.346	4.358	-0.012	1.265	333754	1.27		101	1168	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.429	4.452	-0.023	1.183	1604536	0.8091		85.9	3672	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.571	4.584	-0.013	1.000	816202	0.8871	Target=8.10	88.7	161	
613.00 > 169.00	4.571	4.584	-0.013	1.000	107744		7.58(4.05-12.15)		689	
D 36 13C2 PFDaA										
615.00 > 570.00	4.571	4.584	-0.013	1.330	1129692	0.9360		74.9	5161	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.594	4.606	-0.012	1.128	278879	1.07		111	2913	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.751	4.770	-0.020	1.269	90839	0.6728	Target=0.51	69.5	162	M
699.00 > 99.00	4.751	4.770	-0.020	1.269	165610		0.55(0.26-0.77)		289	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.779	4.799	-0.020	1.046	765887	0.8334	Target=6.06	83.3	172	
663.00 > 169.00	4.779	4.799	-0.020	1.046	134278		5.70(3.03-9.09)		878	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.987	4.998	-0.011	1.000	79299	0.9717	Target=0.83	97.2	1016	
713.00 > 219.00	4.976	4.998	-0.022	0.998	91514		0.87(0.42-1.25)		942	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.987	4.998	-0.011	1.451	817036	0.7870		63.0	4918	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.362	-0.012	1.000	672180	1.03	Target=6.74	103	209	
813.00 > 169.00	5.350	5.362	-0.012	1.000	101376		6.63(3.37-10.11)		1462	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.362	-0.012	1.557	884038	0.6948		55.6	5736	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.711	0.0	1.067	504108	0.8813	Target=6.99	88.1	258	
913.00 > 169.00	5.702	5.711	-0.009	1.066	71785		7.02(3.50-10.49)		555	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A23.d

Injection Date: 26-Jan-2023 22:46:02

Instrument ID: LC812

Lims ID: 460-273176-A-4-C MSD

Client ID: BCS-09-63_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 20

Worklist Smp#: 23

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

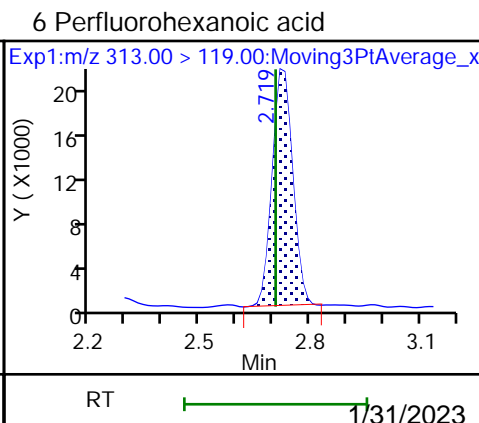
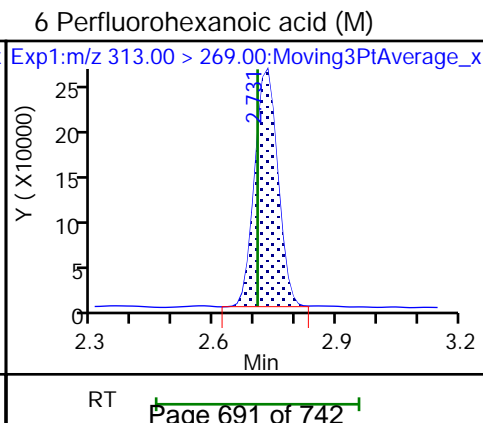
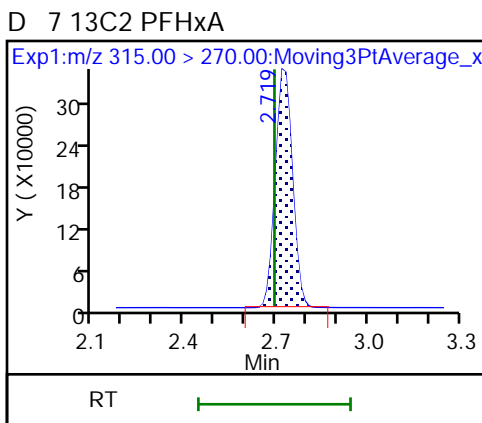
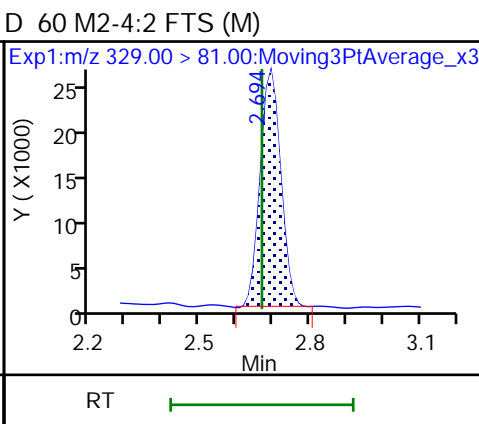
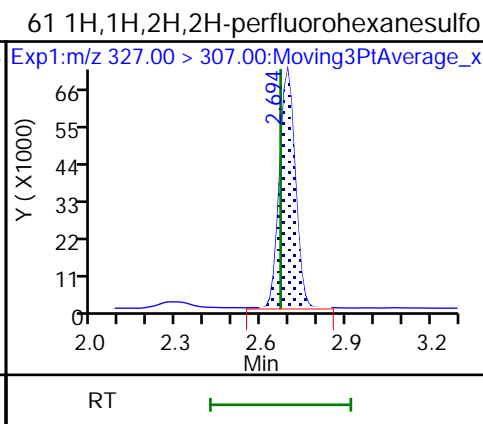
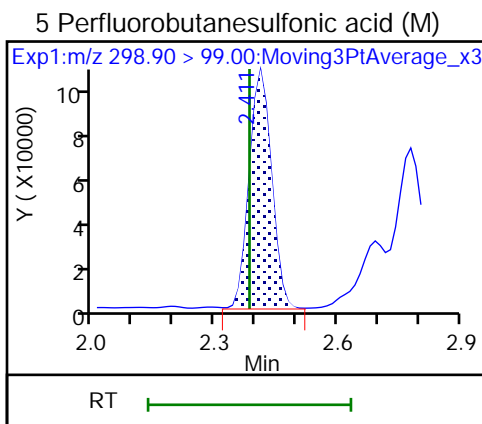
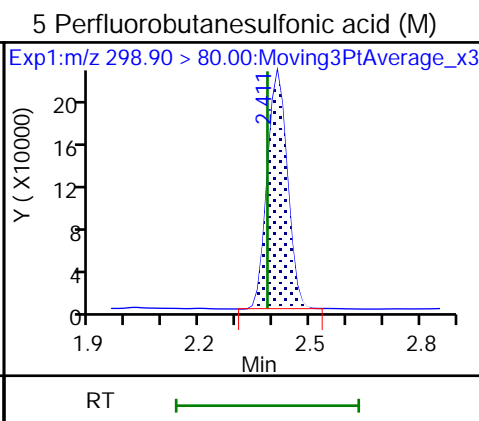
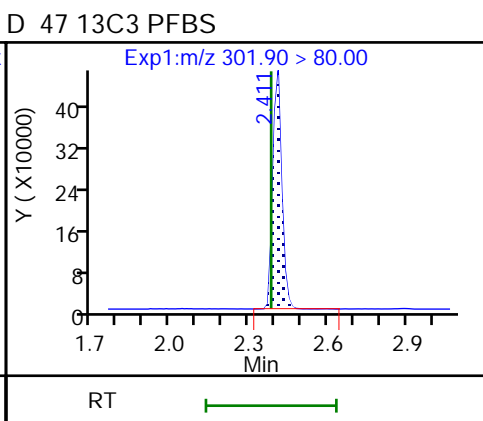
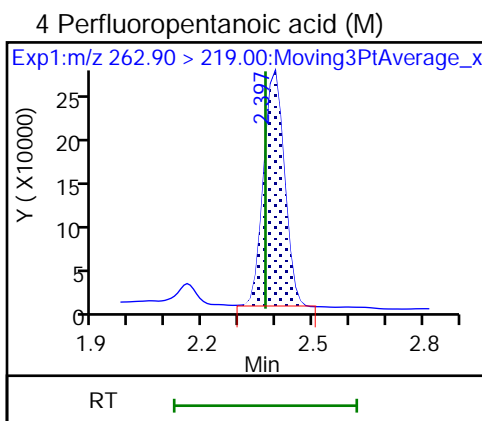
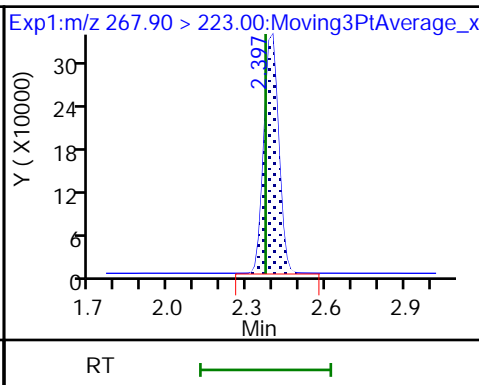
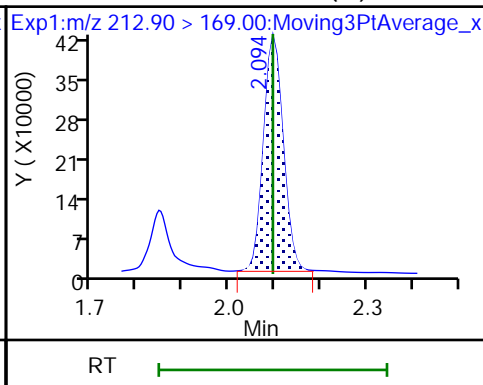
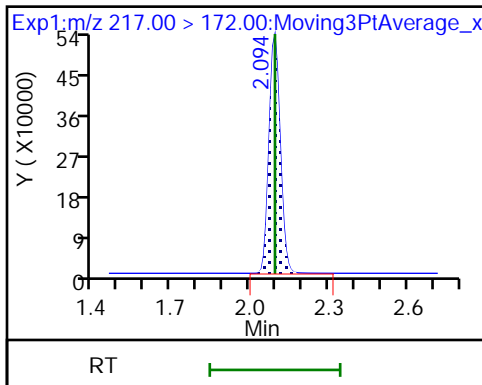
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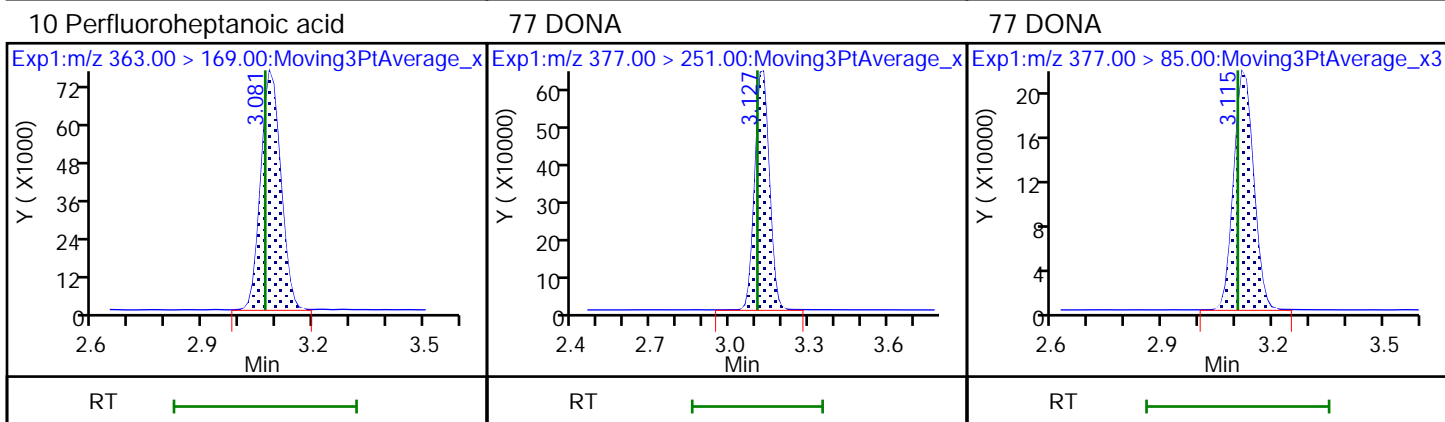
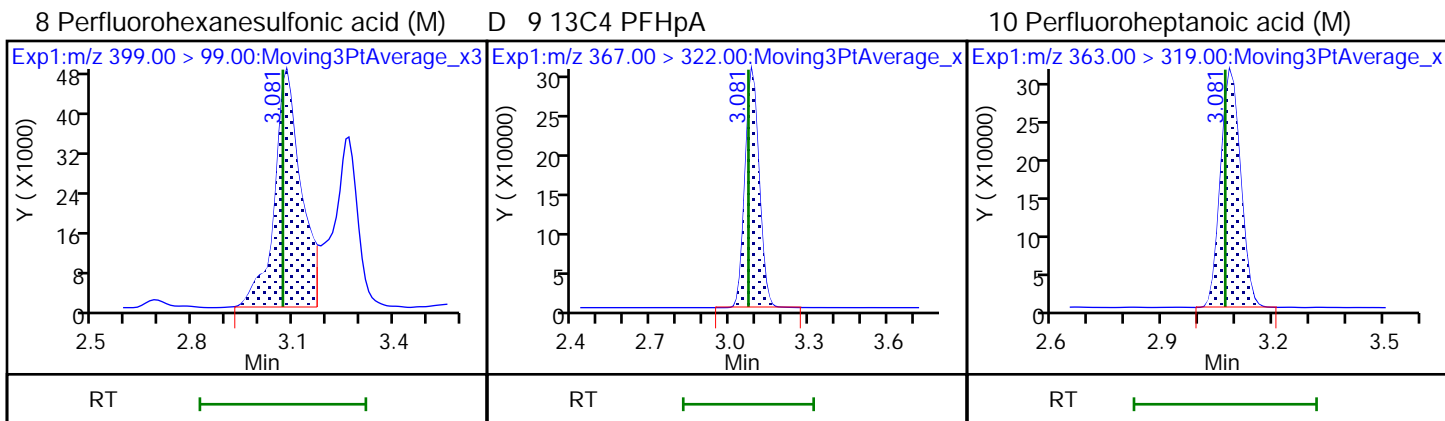
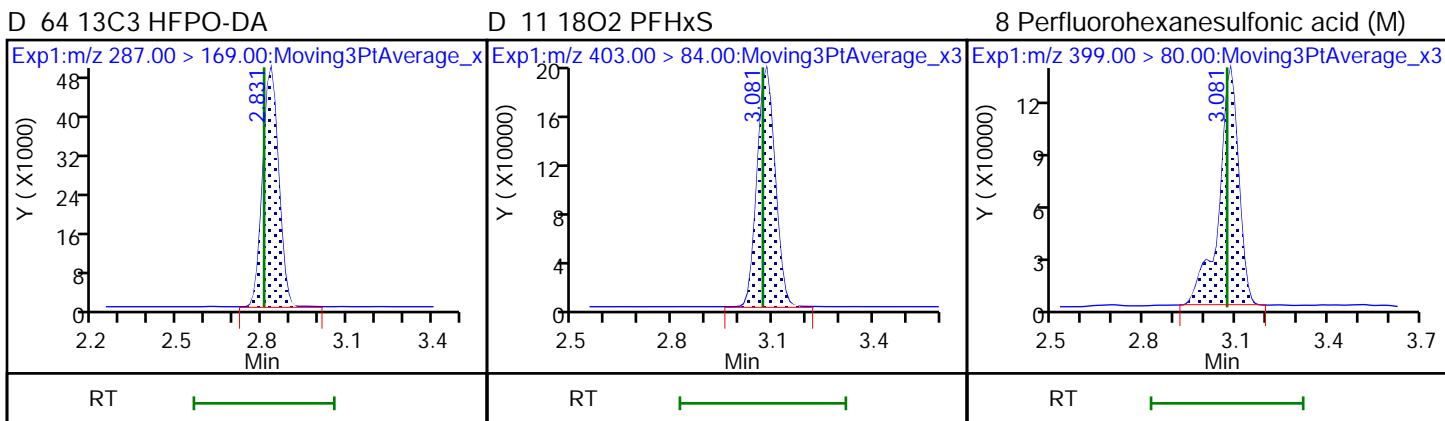
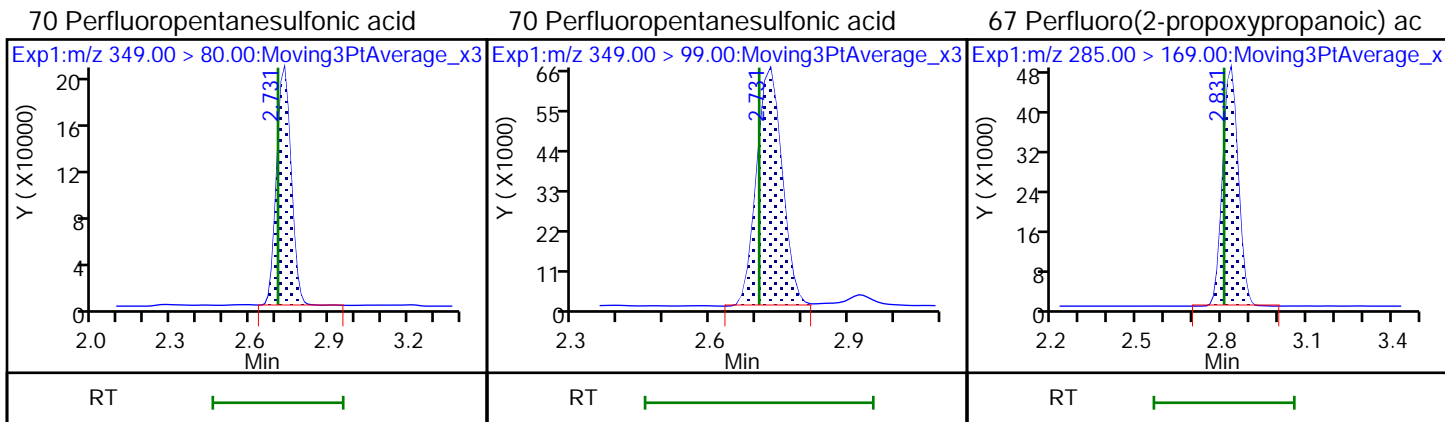
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

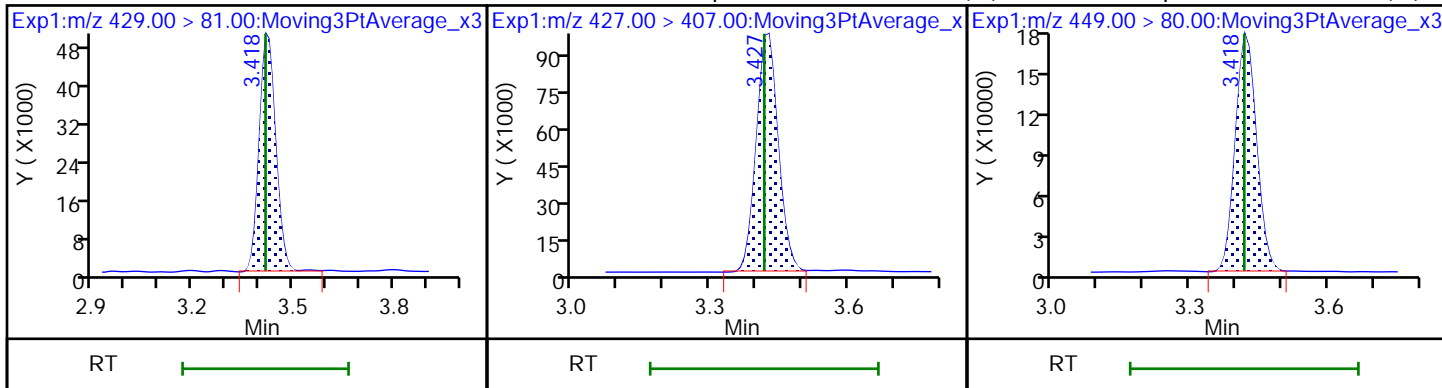
D 3 13C5 PFPeA





D 12 M2-6:2 FTS

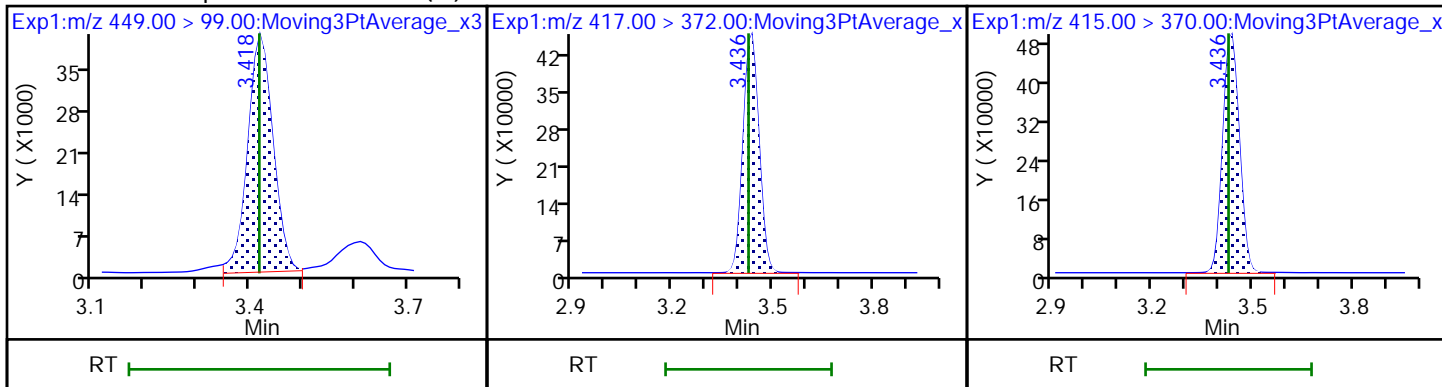
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

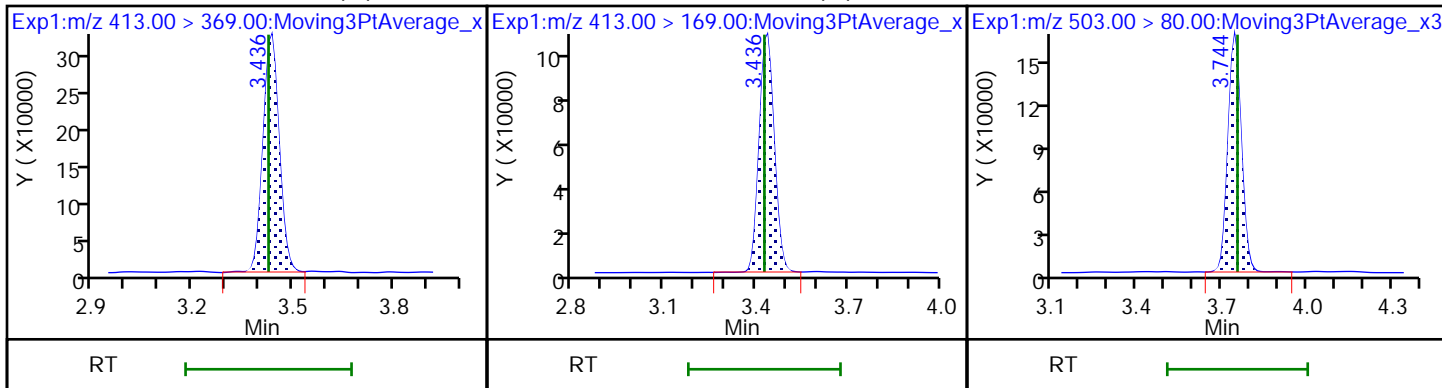
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

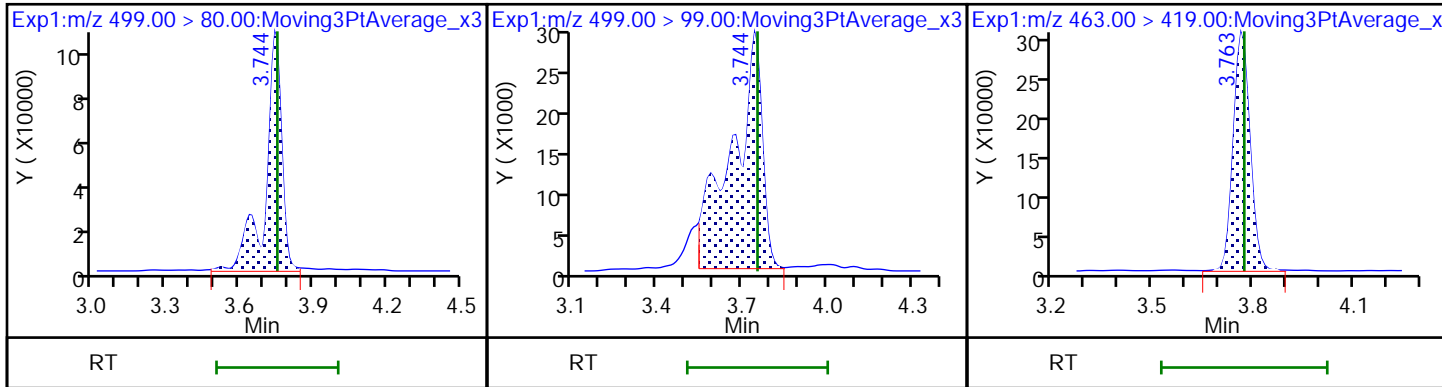
D 18 13C4 PFOS

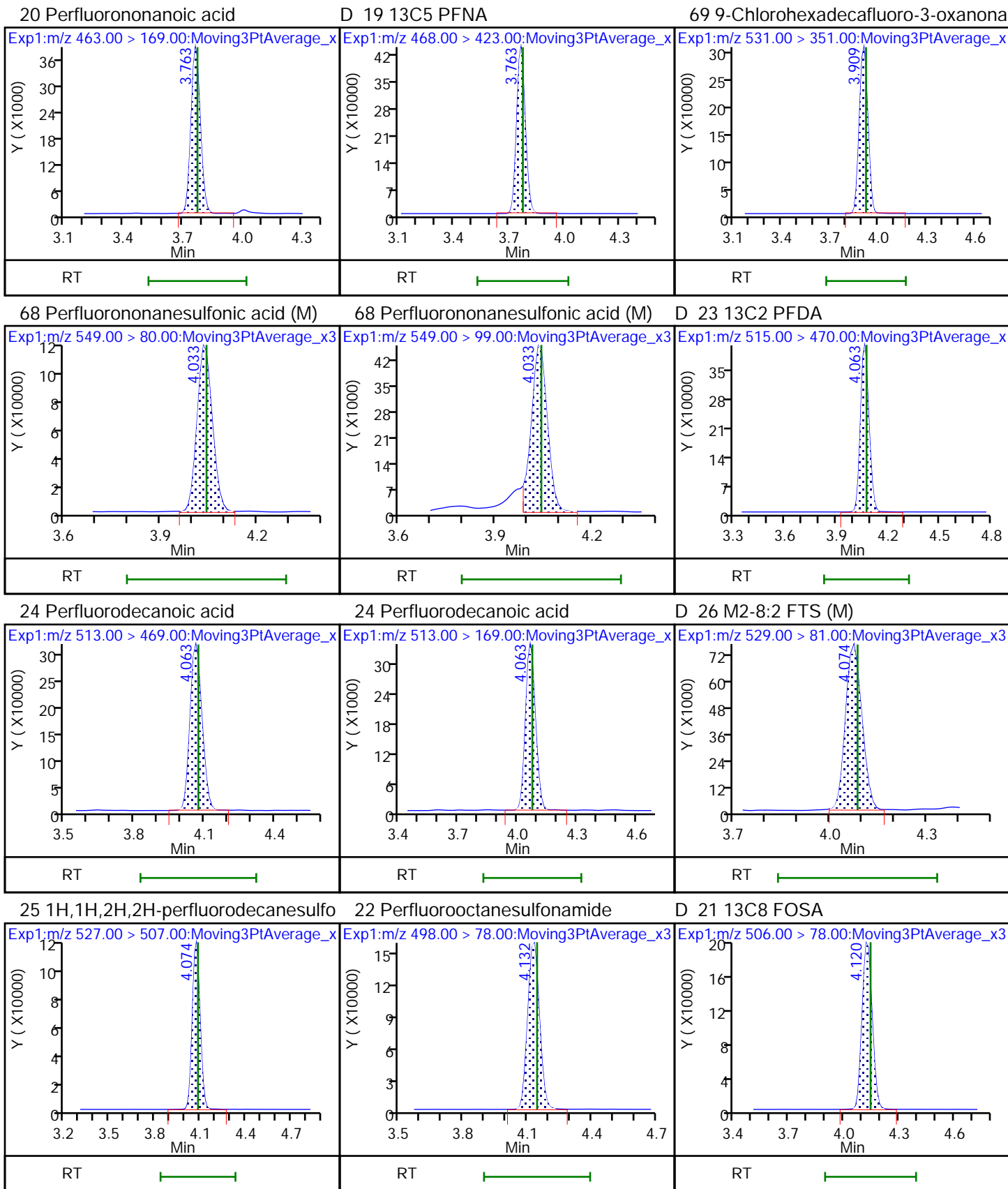


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

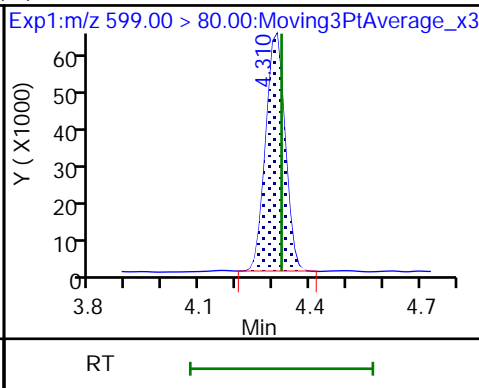
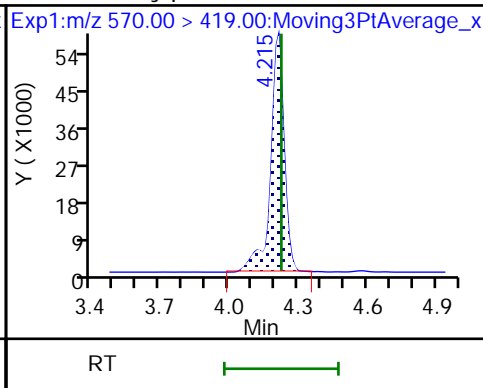
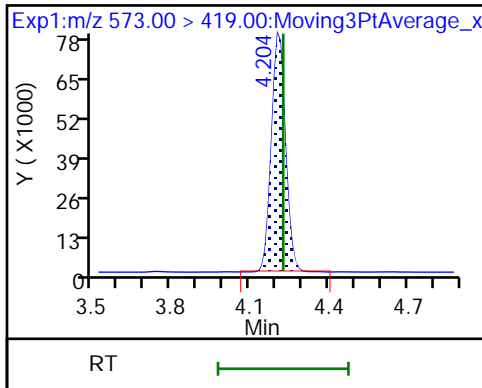
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

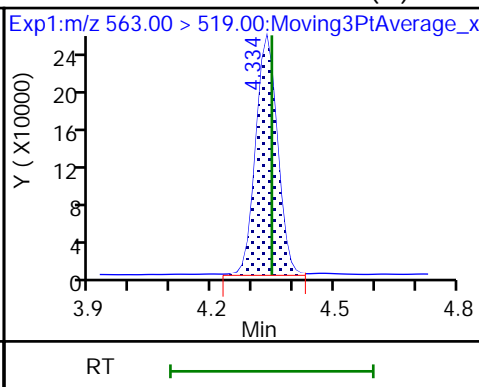
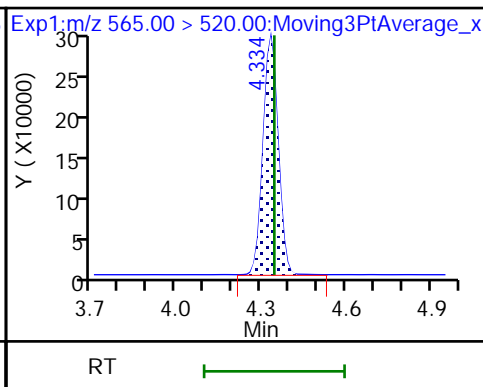
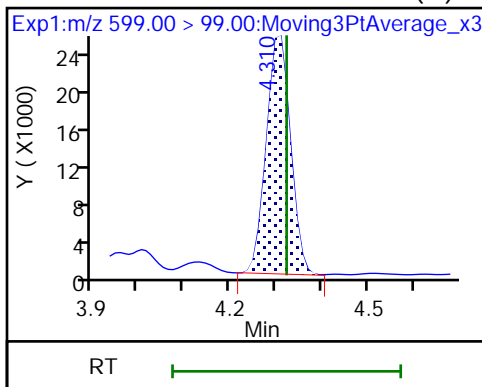
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

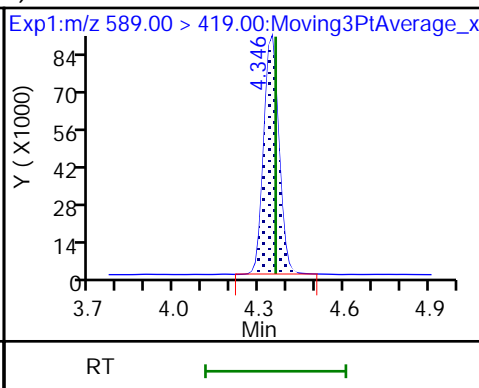
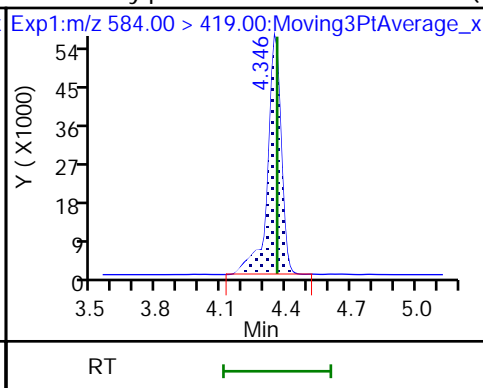
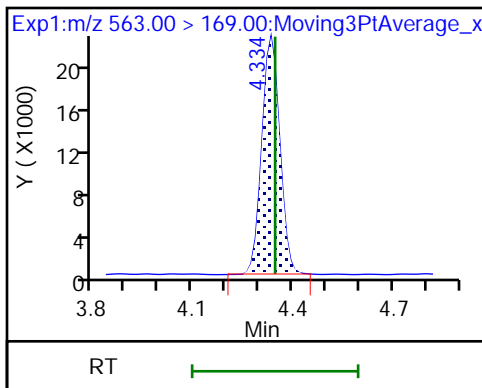
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

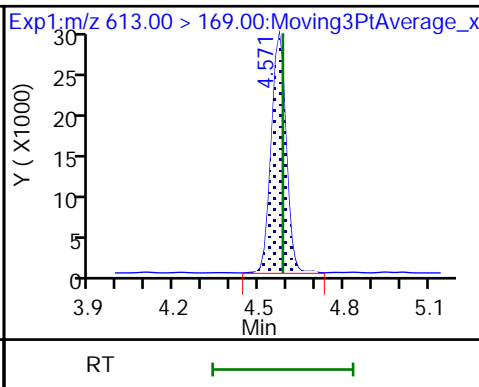
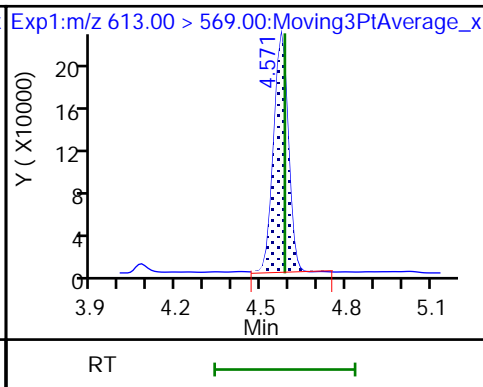
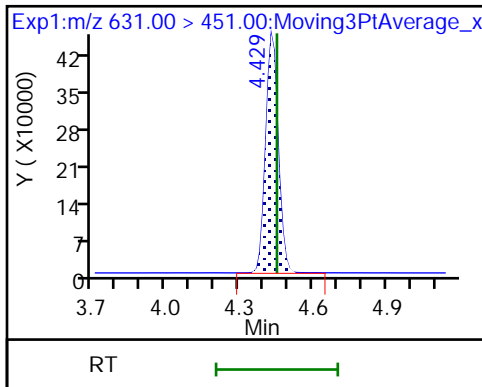
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

37 Perfluorododecanoic acid

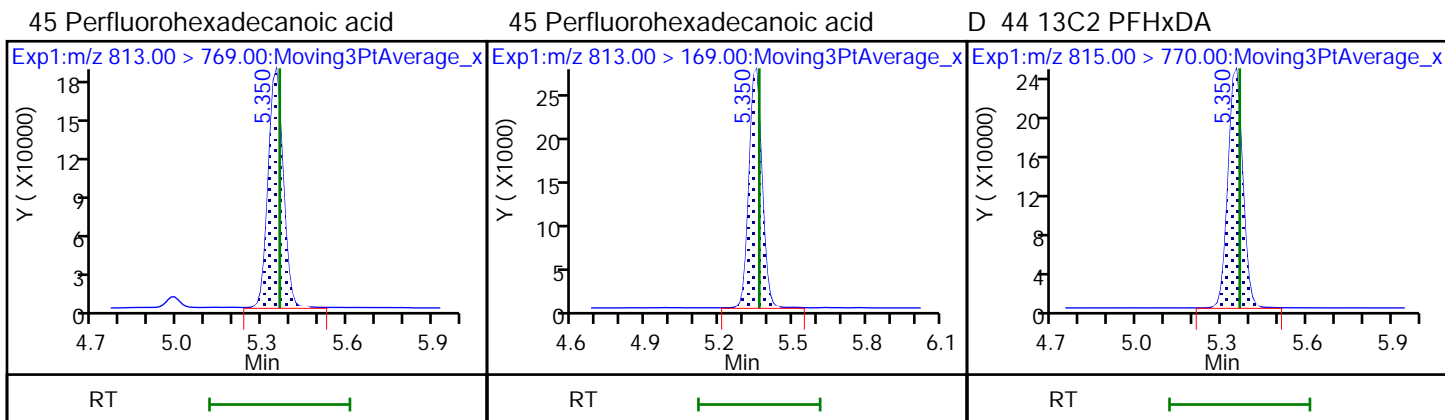
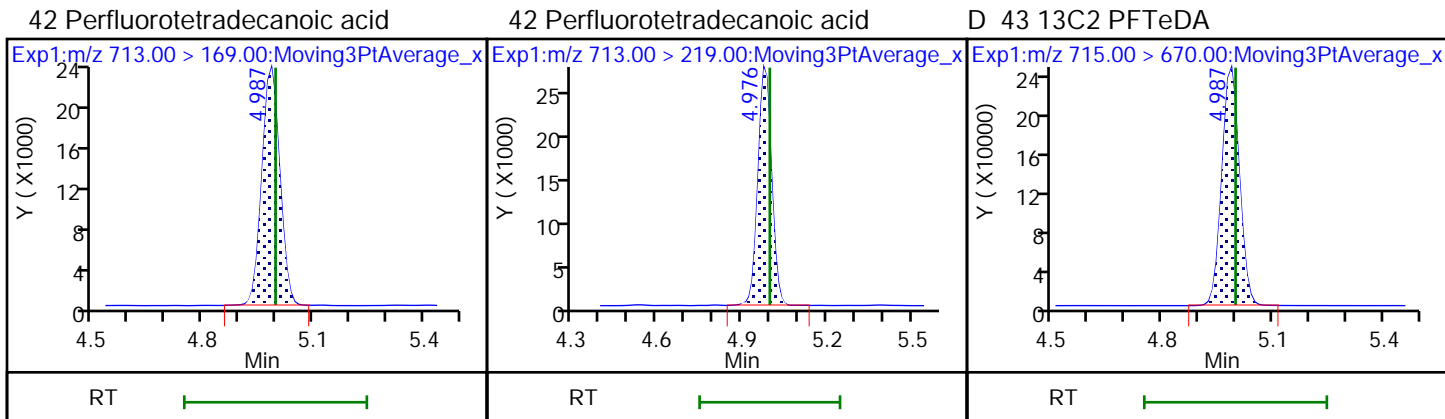
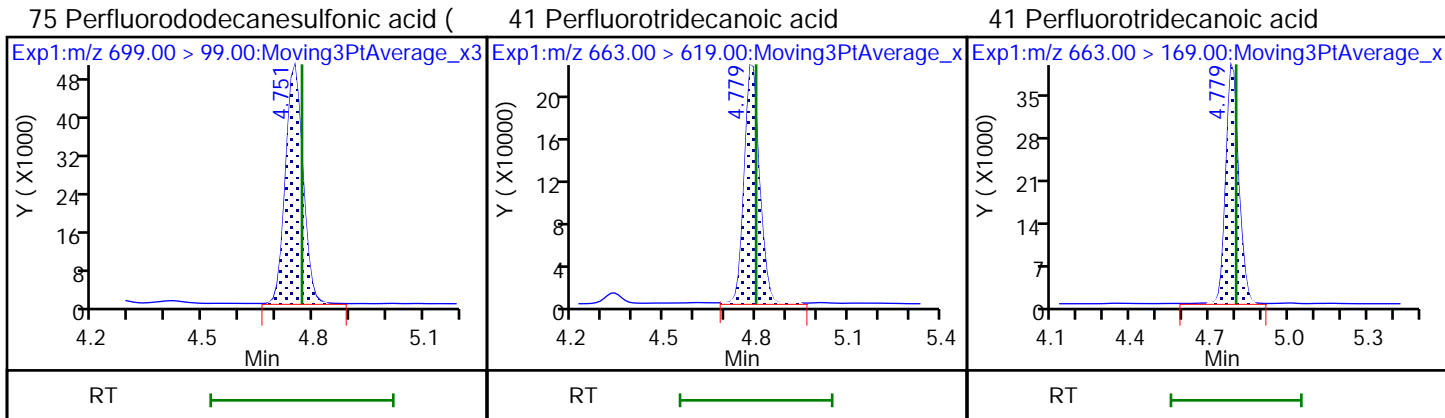
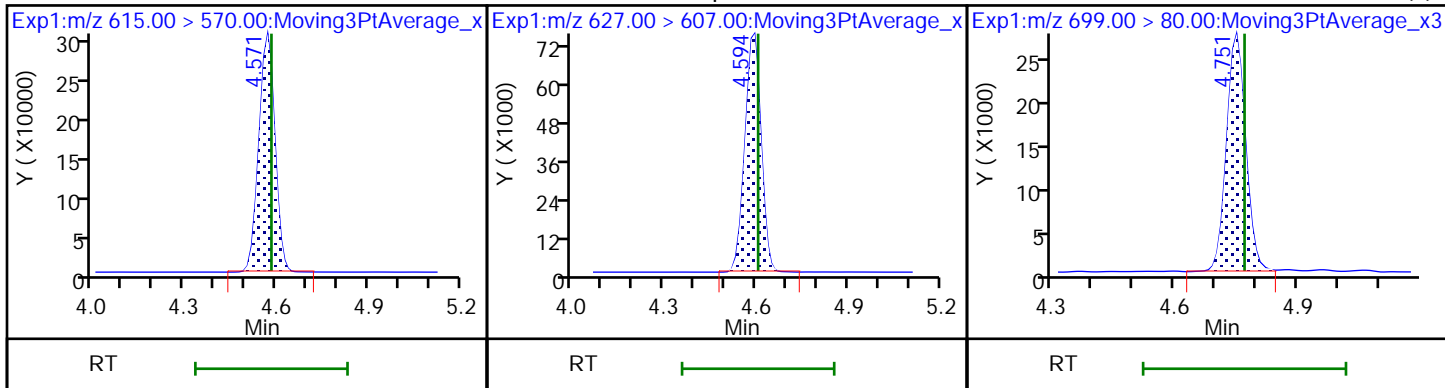
37 Perfluorododecanoic acid



D 36 13C2 PFDaA

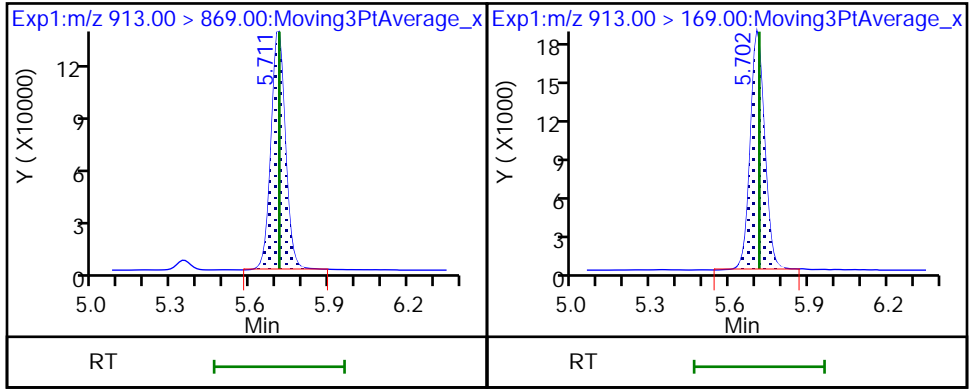
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid ((M)



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

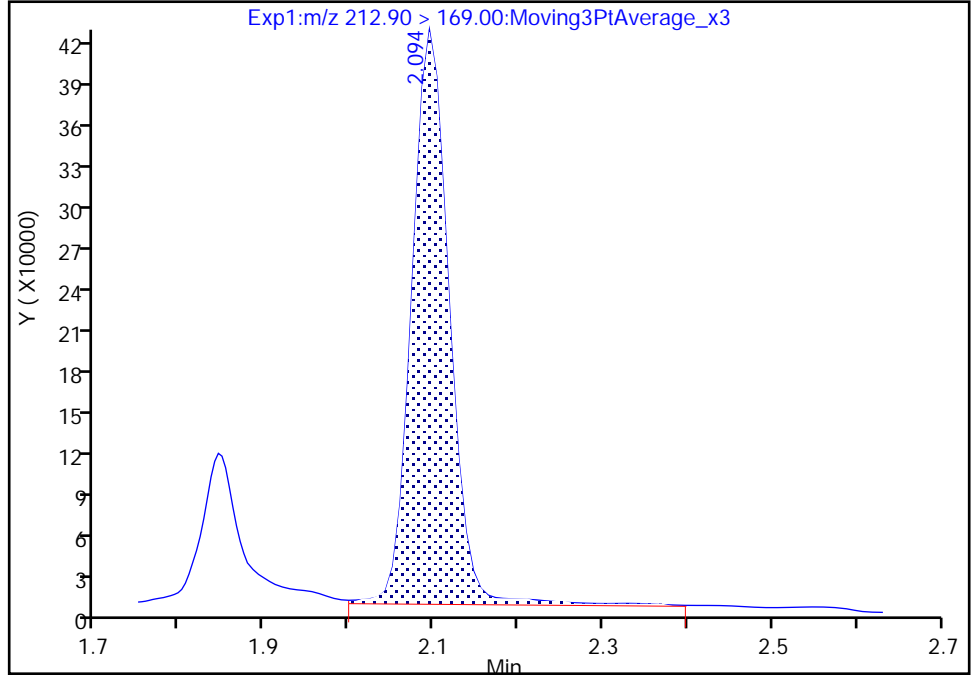
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

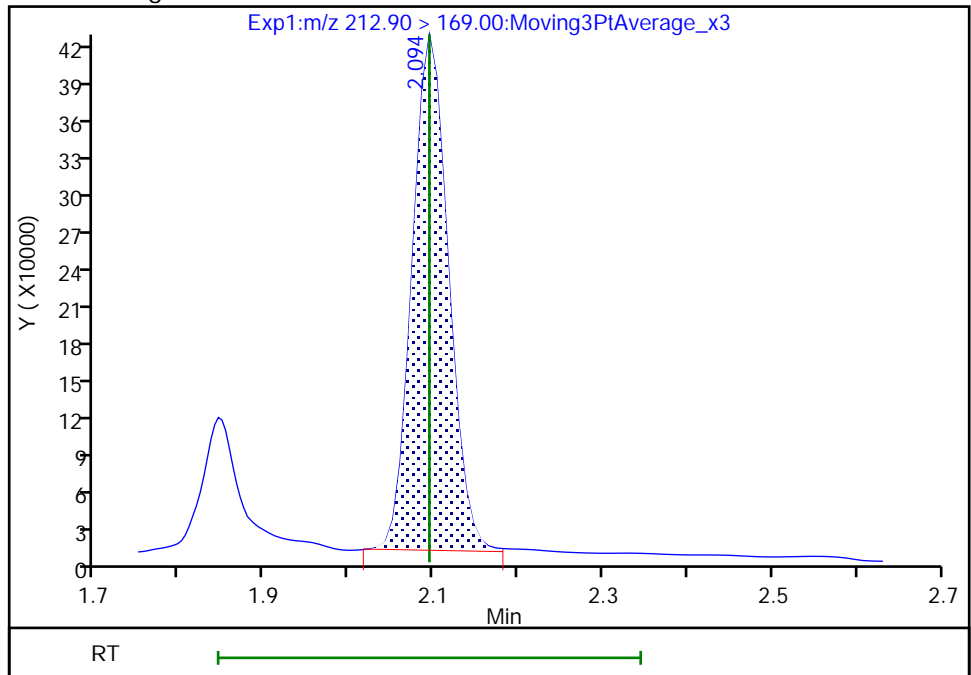
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Area: 1285840
Amount: 1.027371
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
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Amount: 0.985032
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:26:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

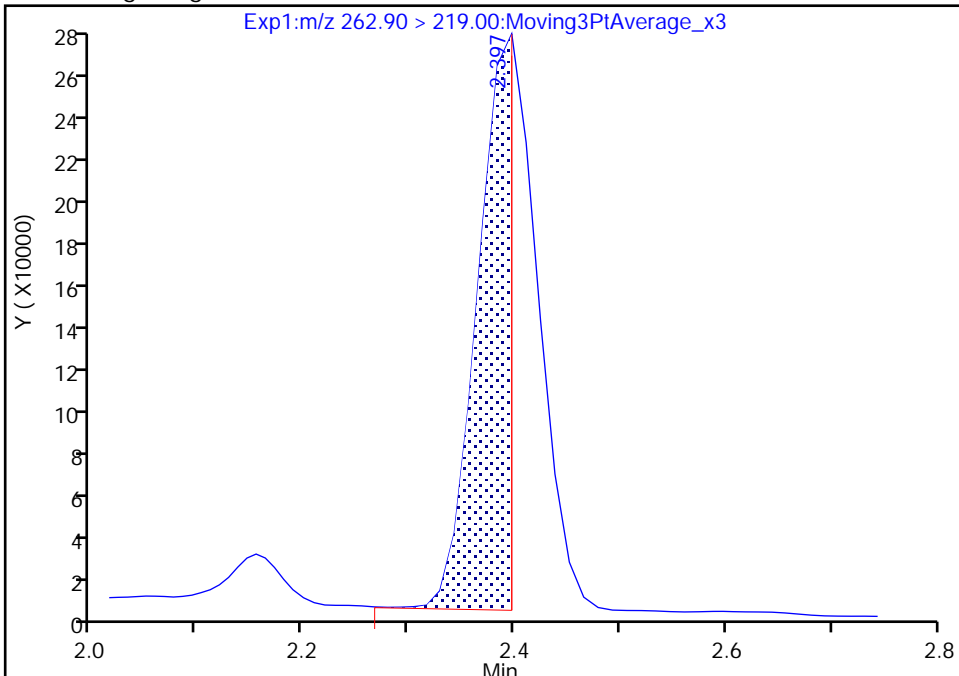
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Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

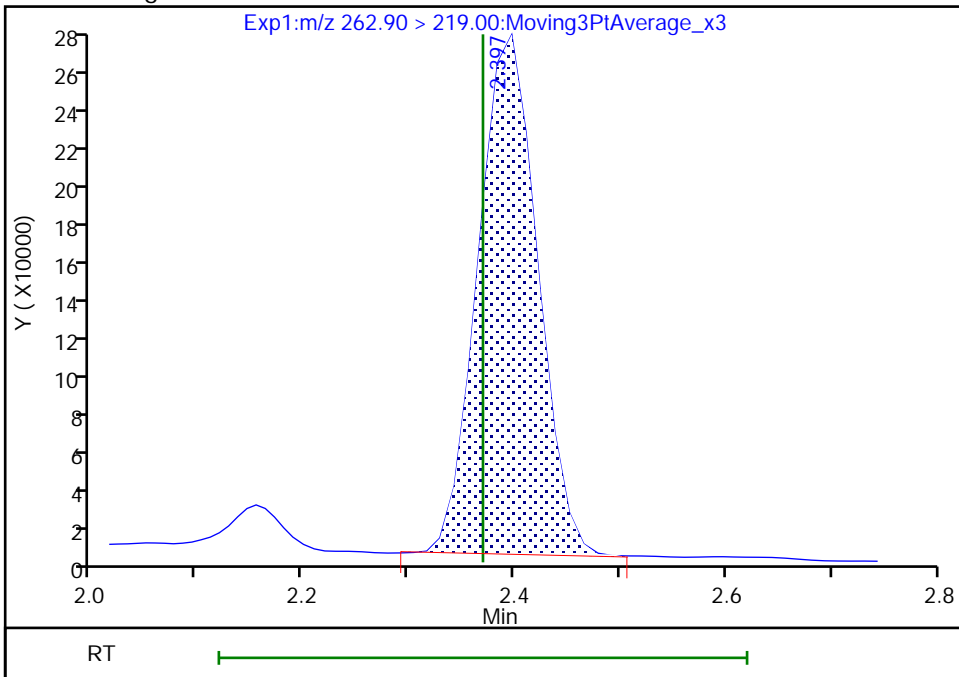
RT: 2.40
Area: 572807
Amount: 0.475198
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
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Amount: 0.858973
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:26:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 699 of 742

Eurofins Burlington

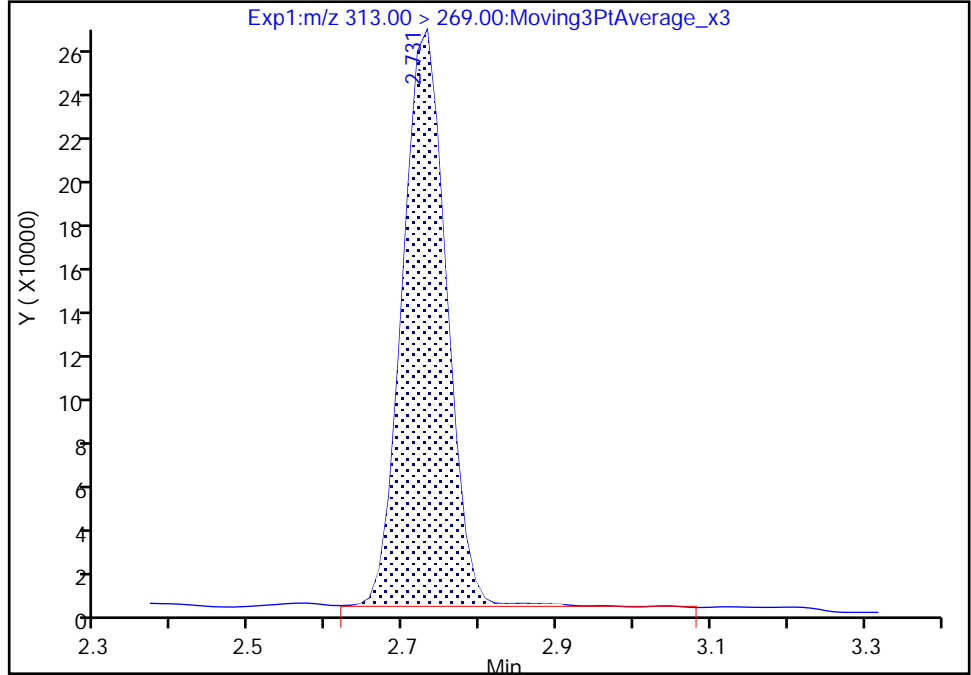
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Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

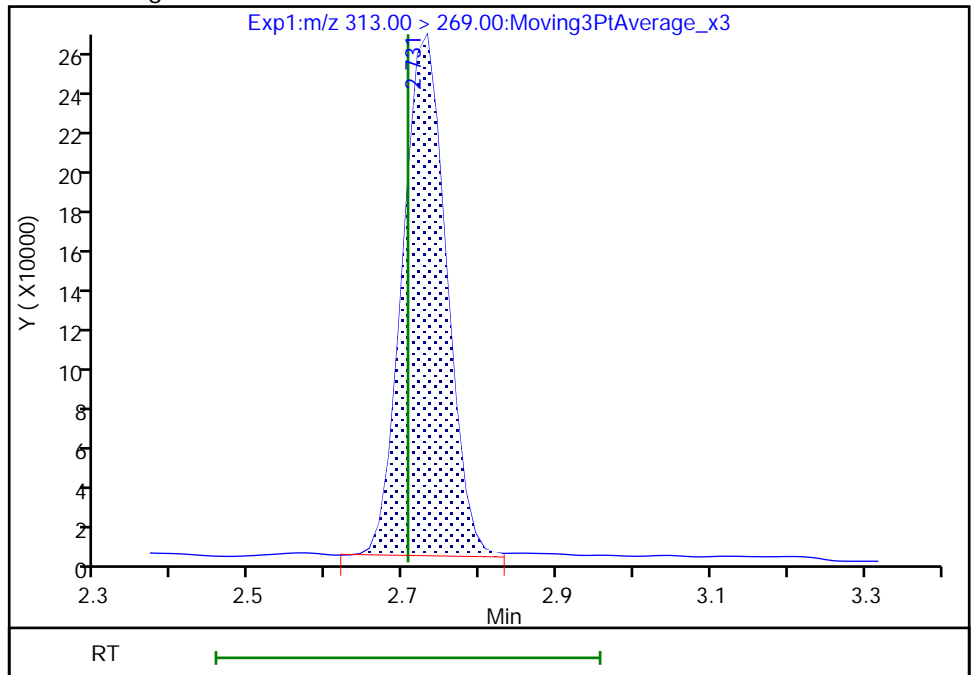
RT: 2.73
Area: 1065349
Amount: 0.946152
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1054502
Amount: 0.936518
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:27:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

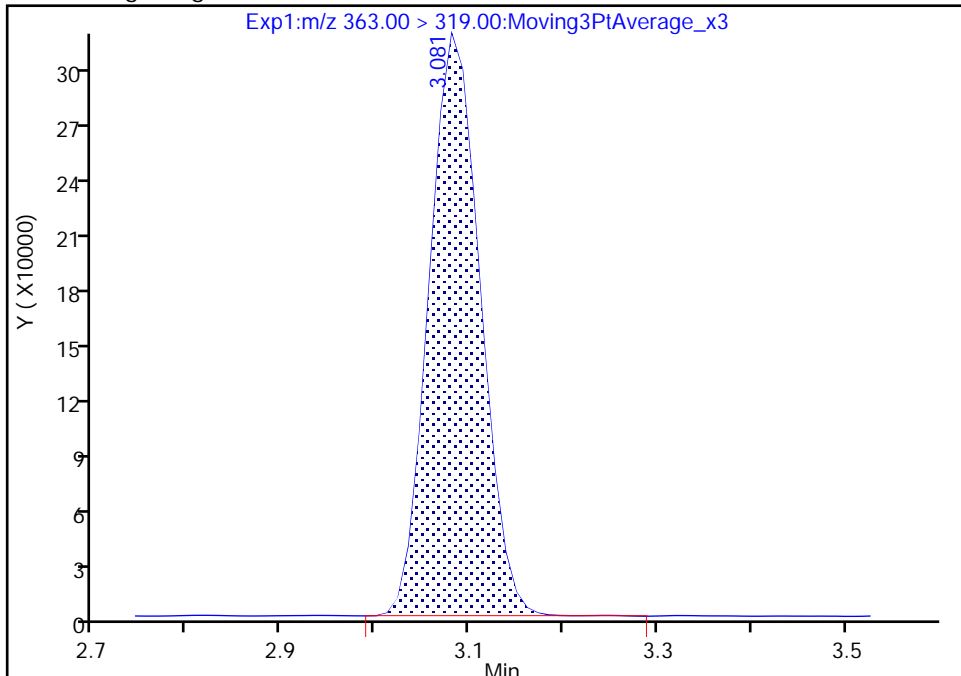
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

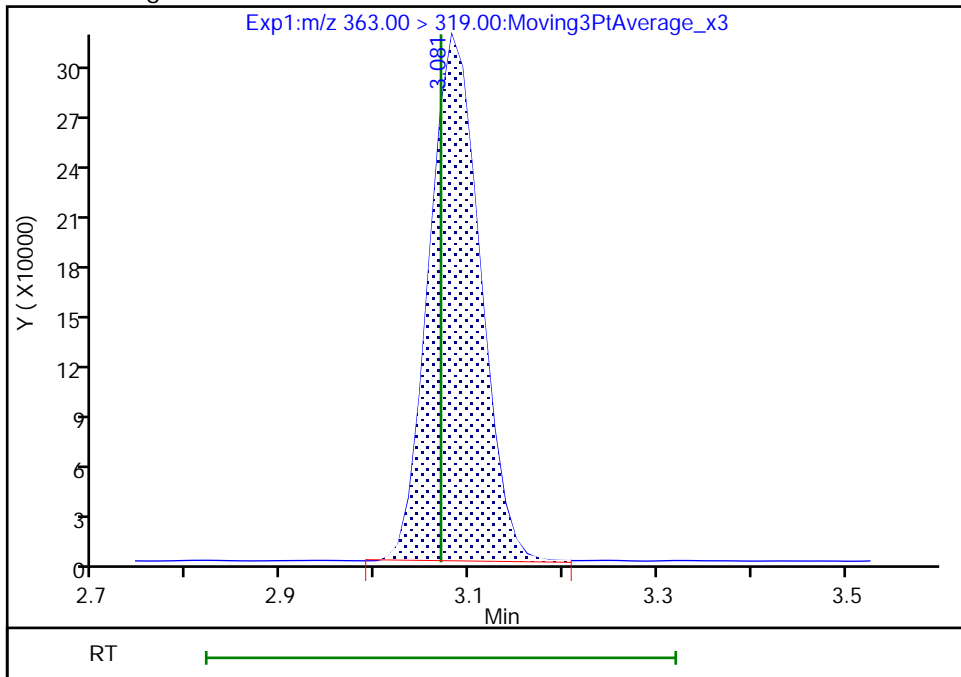
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Area: 1199974
Amount: 1.224107
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 1198694
Amount: 1.222801
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:28:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

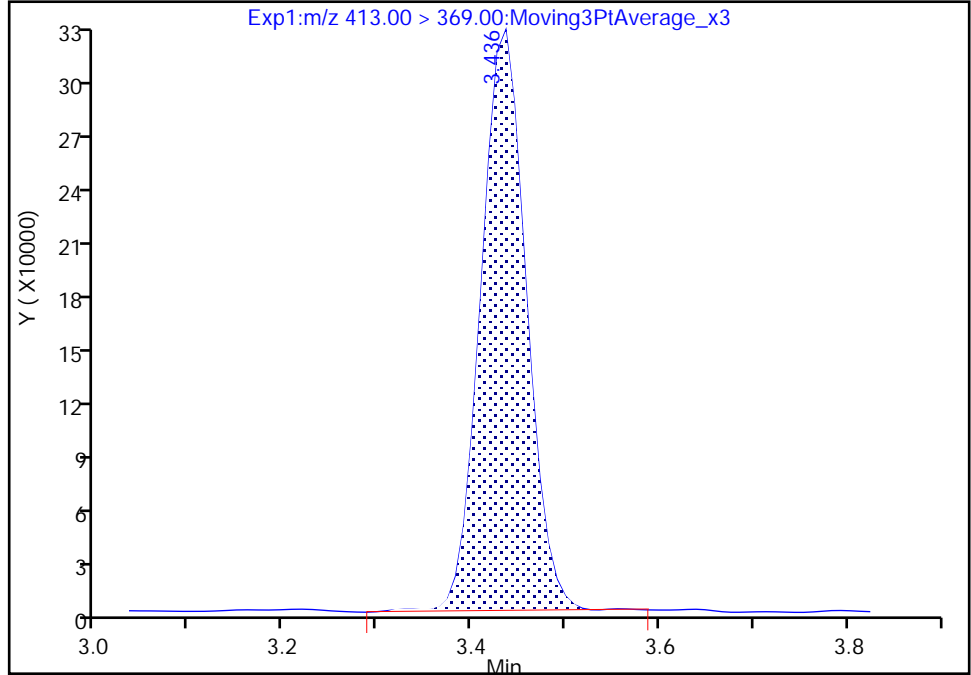
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A23.d
Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

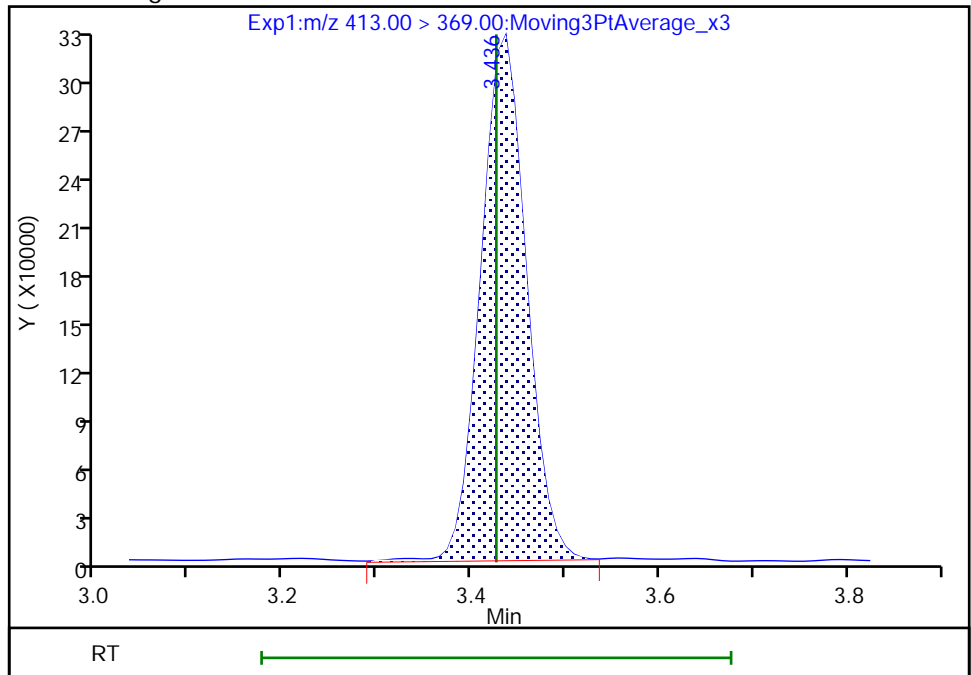
RT: 3.44
Area: 1075564
Amount: 0.819016
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1074197
Amount: 0.817975
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:30:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 702 of 742

Eurofins Burlington

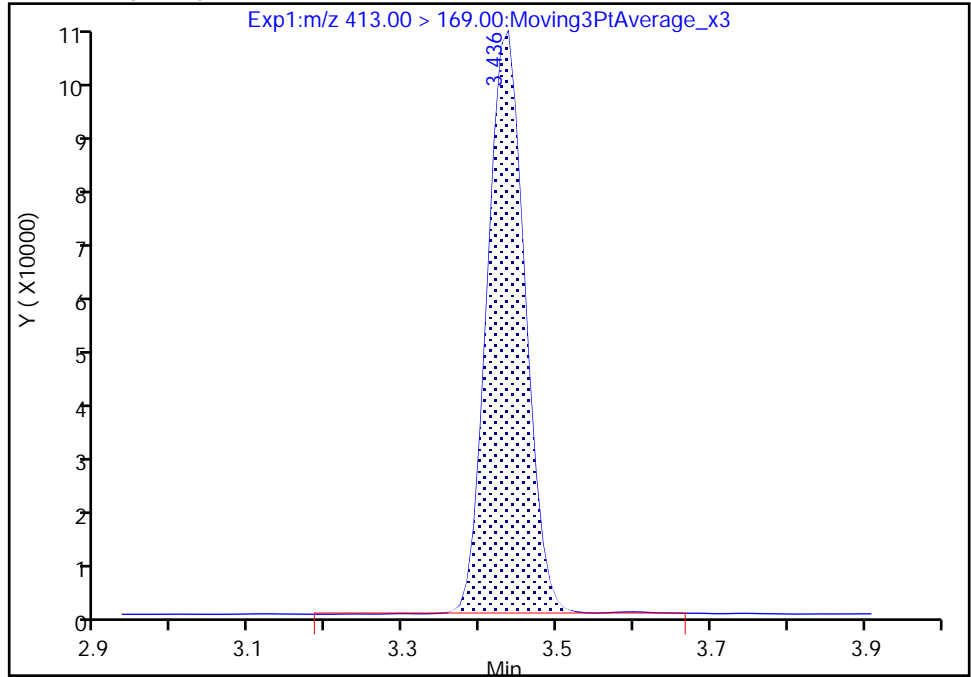
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A23.d
Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

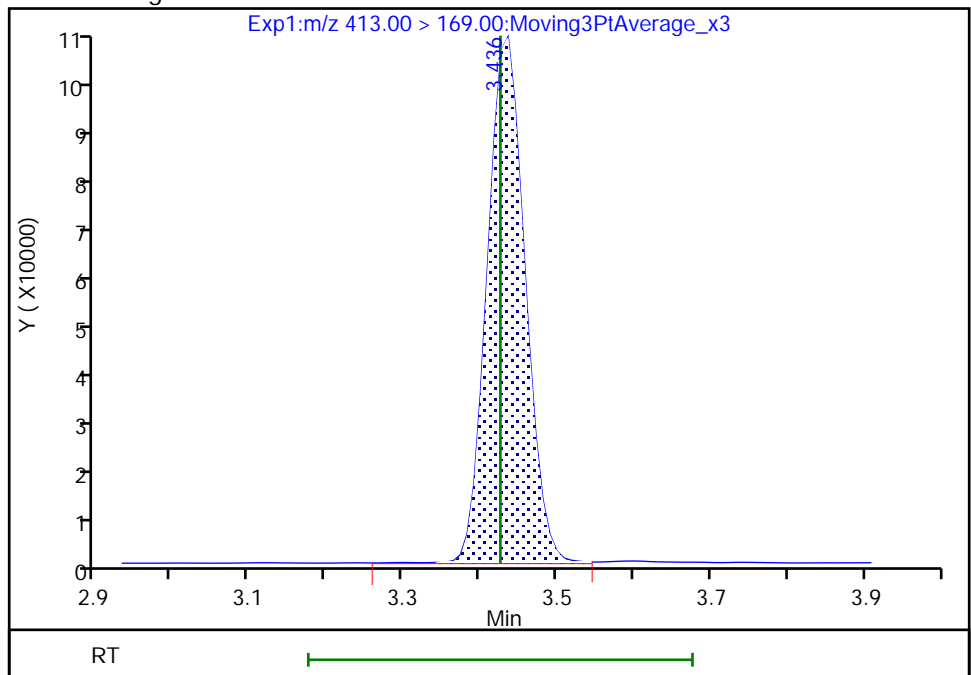
RT: 3.44
Area: 363693
Amount: 0.819016
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 362598
Amount: 0.817975
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:30:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

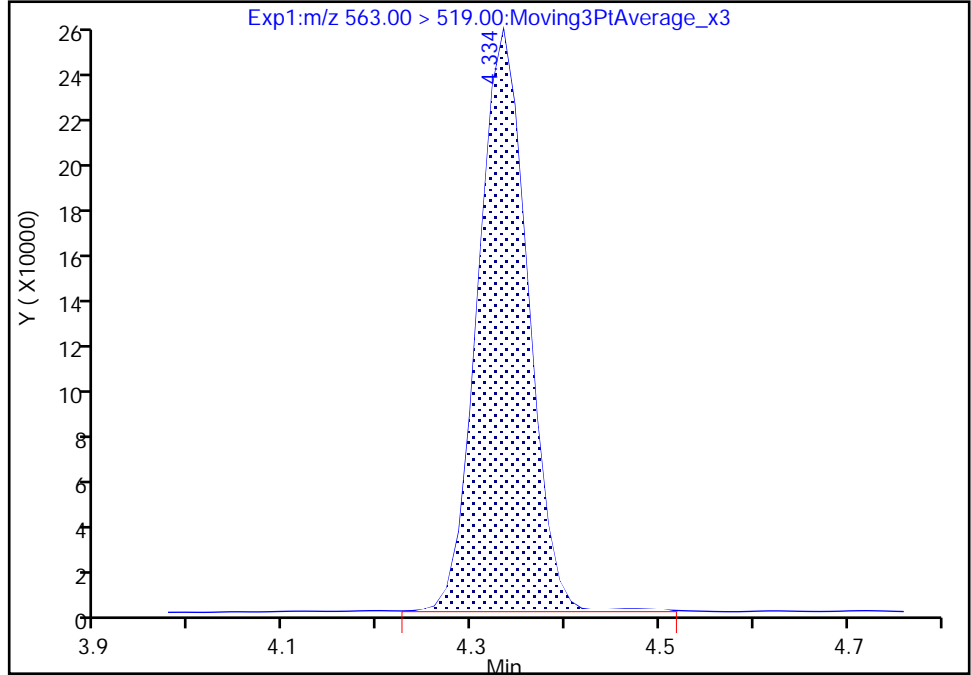
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

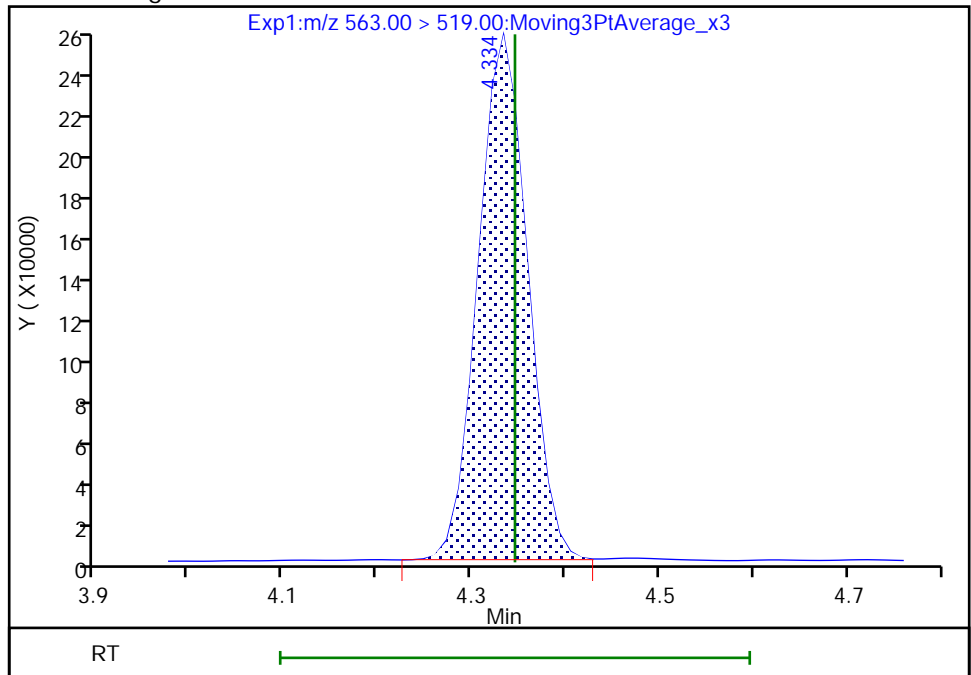
RT: 4.33
Area: 916830
Amount: 0.966613
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 916434
Amount: 0.966196
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:33:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

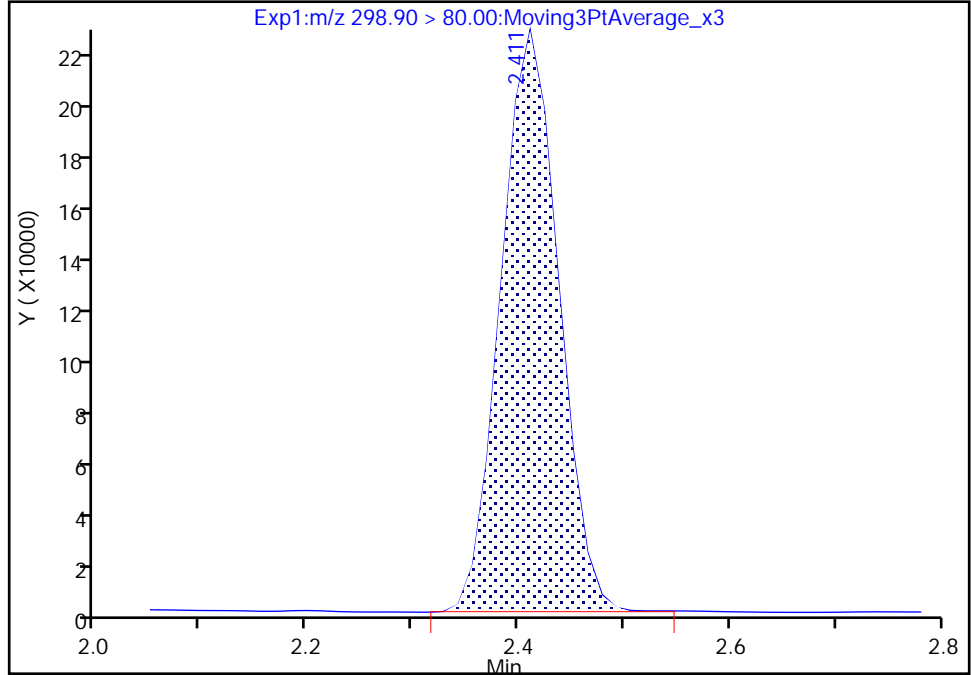
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

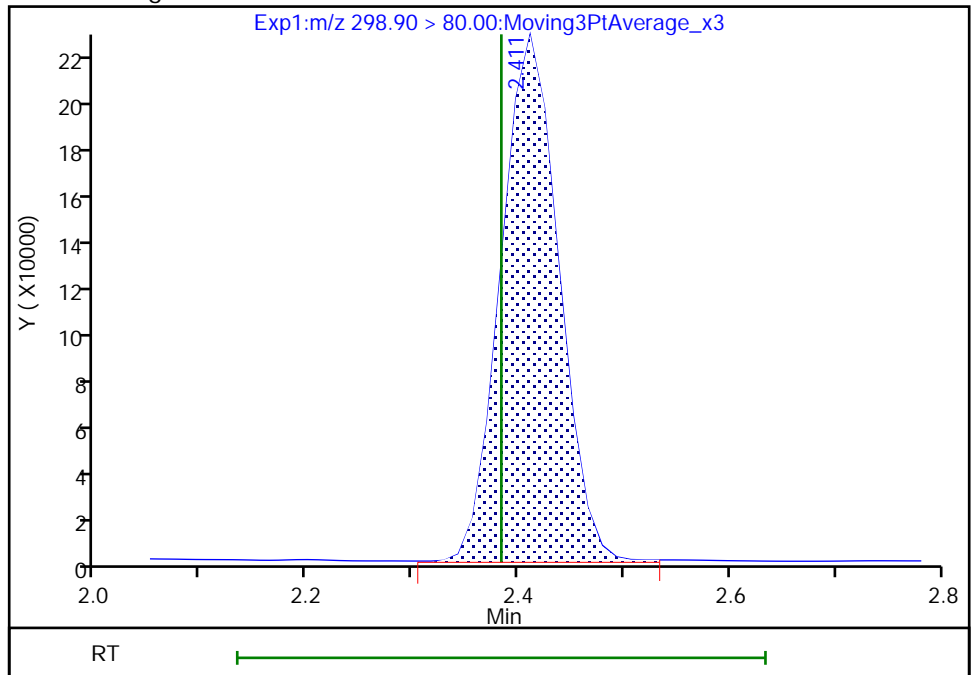
RT: 2.41
Area: 854165
Amount: 0.839761
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 857367
Amount: 0.842909
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:27:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

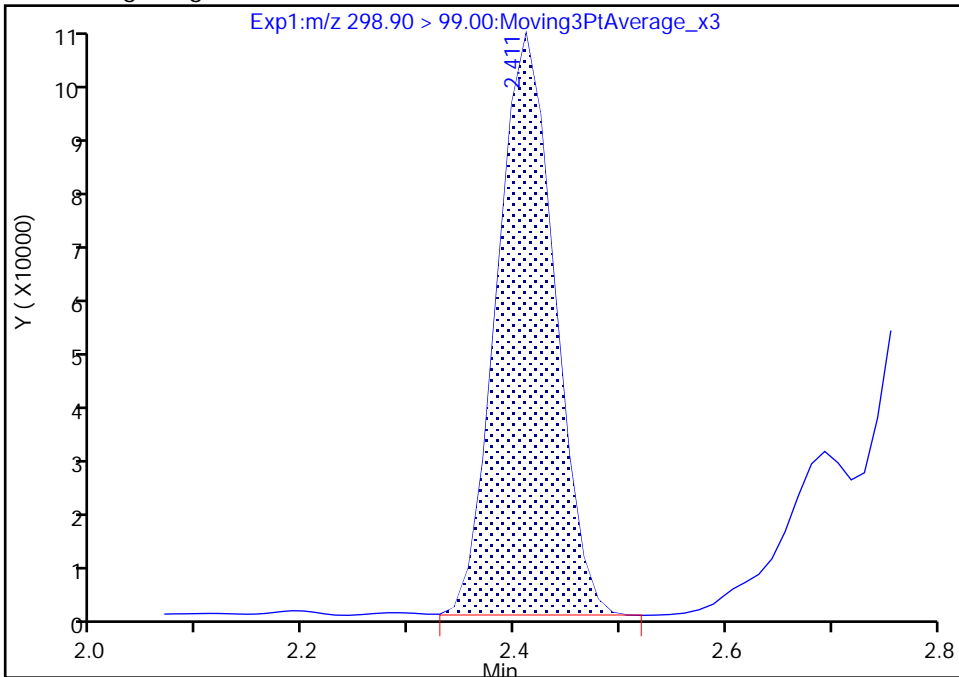
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A23.d
Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

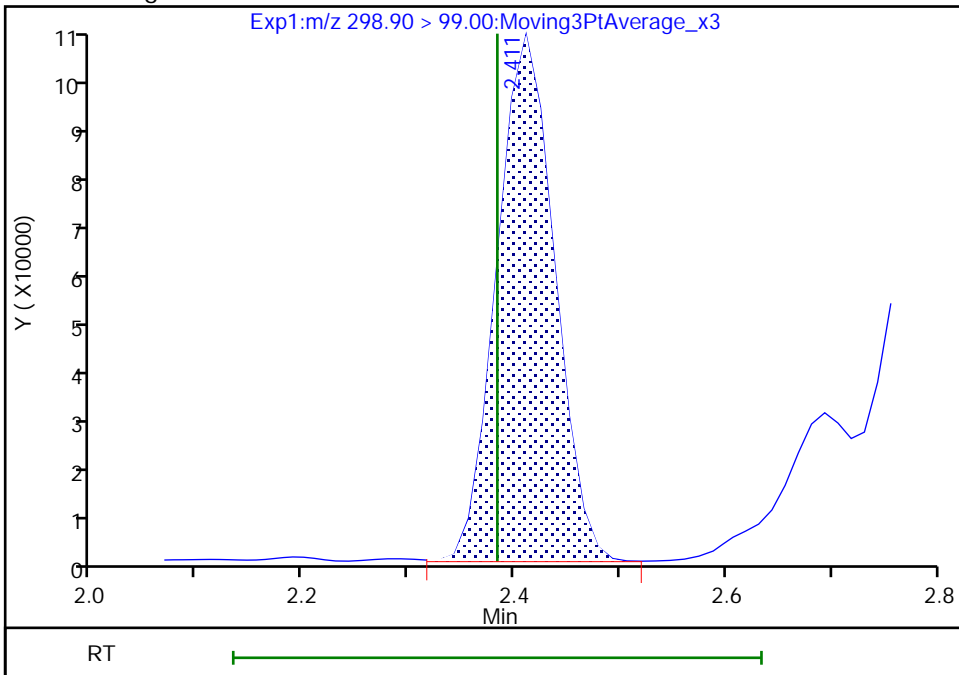
RT: 2.41
Area: 414631
Amount: 0.839761
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 413916
Amount: 0.842909
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:27:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

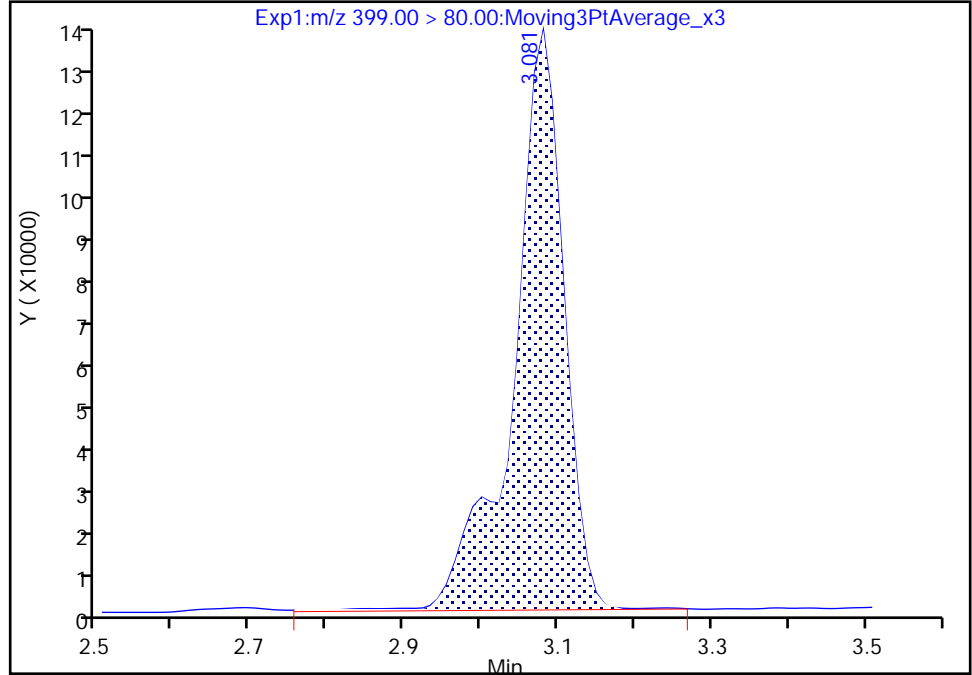
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

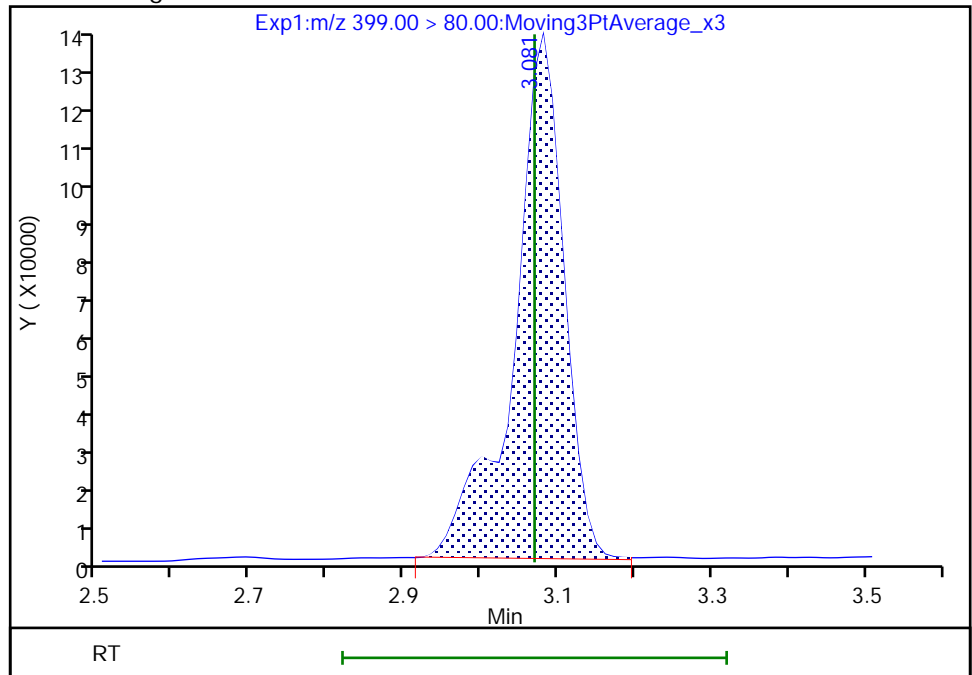
RT: 3.08
Area: 609118
Amount: 0.919611
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 601132
Amount: 0.907554
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:28:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 707 of 742

Eurofins Burlington

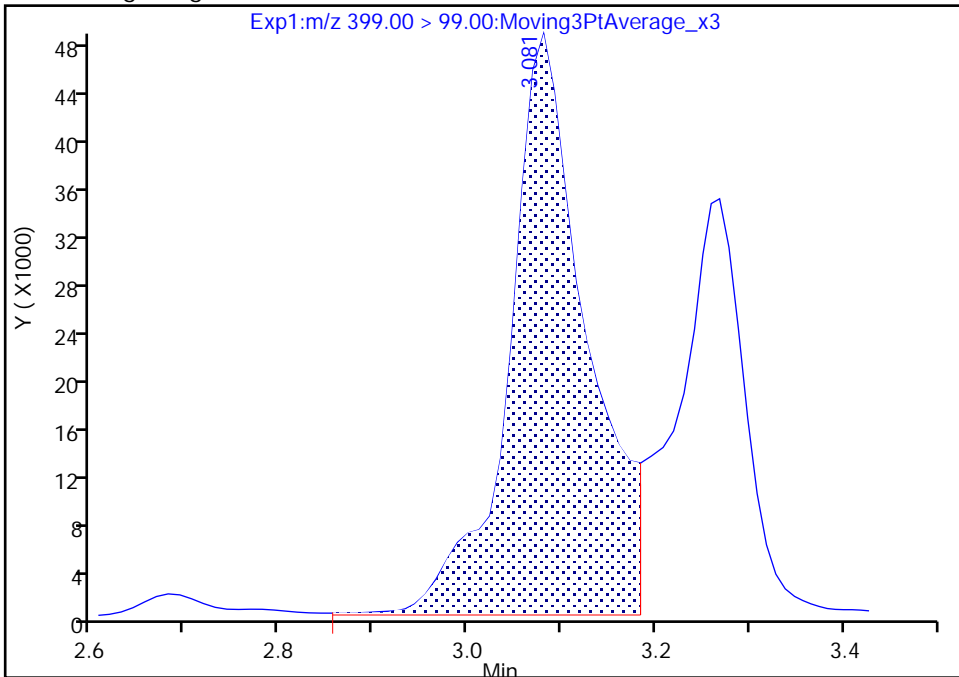
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

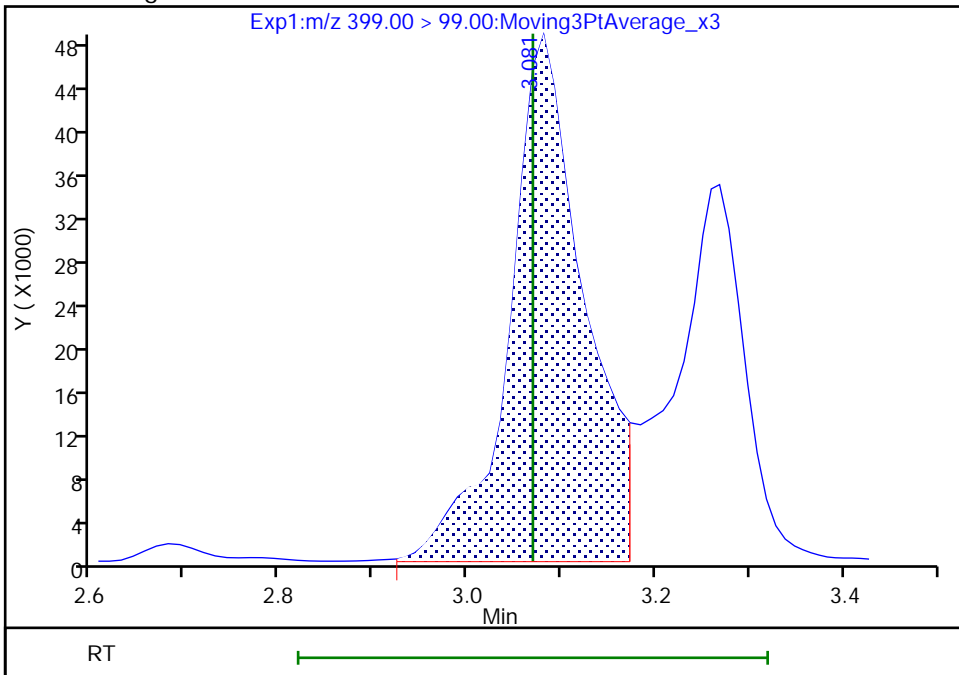
RT: 3.08
Area: 278435
Amount: 0.919611
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 264159
Amount: 0.907554
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:28:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

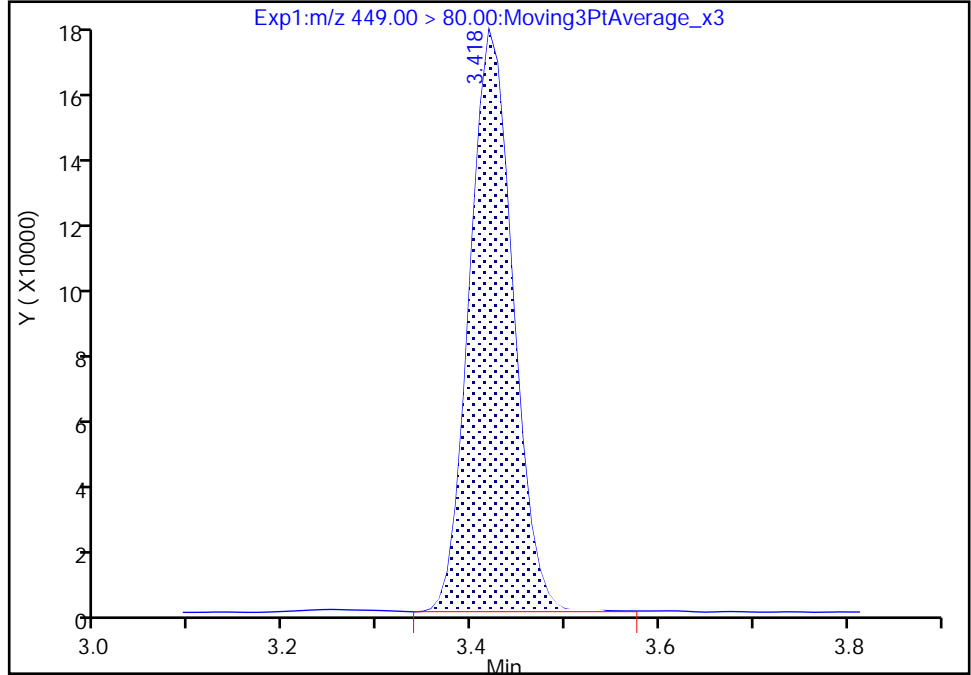
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

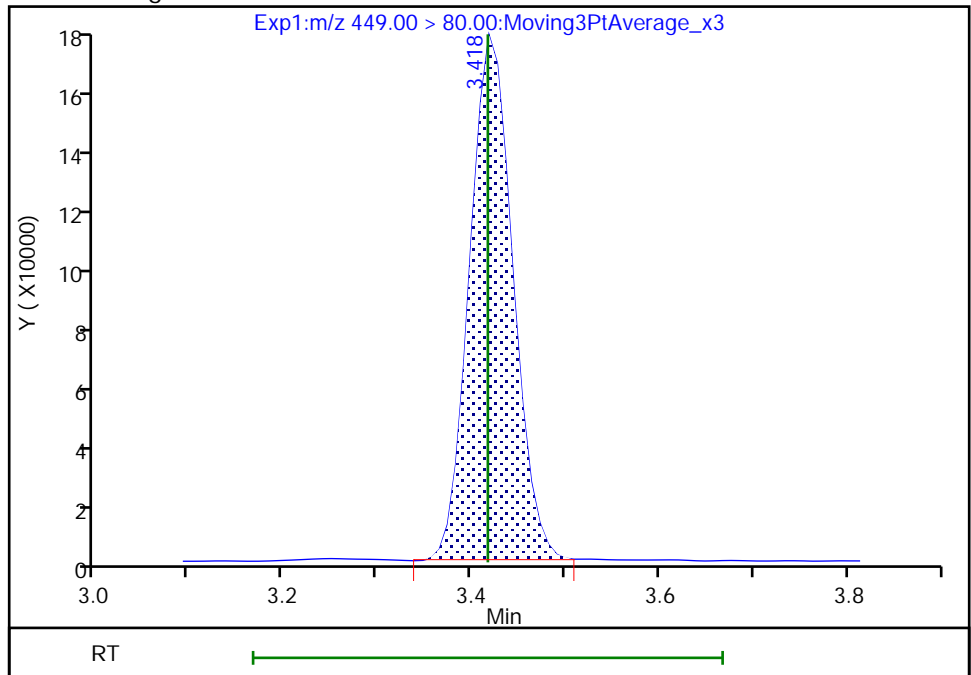
RT: 3.42
Area: 559380
Amount: 0.869909
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 558821
Amount: 0.869040
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:29:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

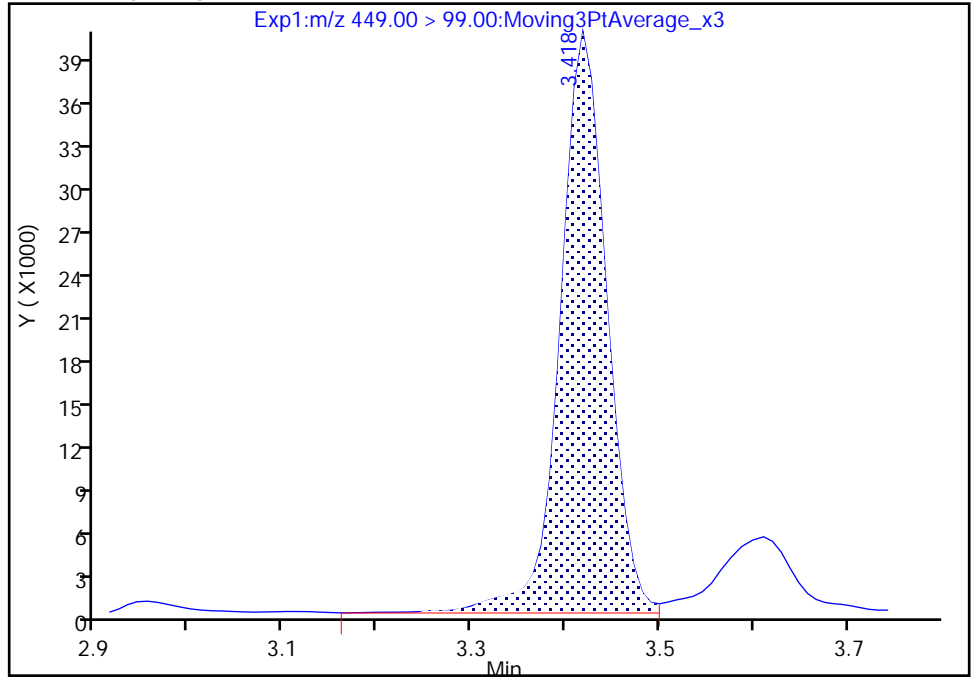
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

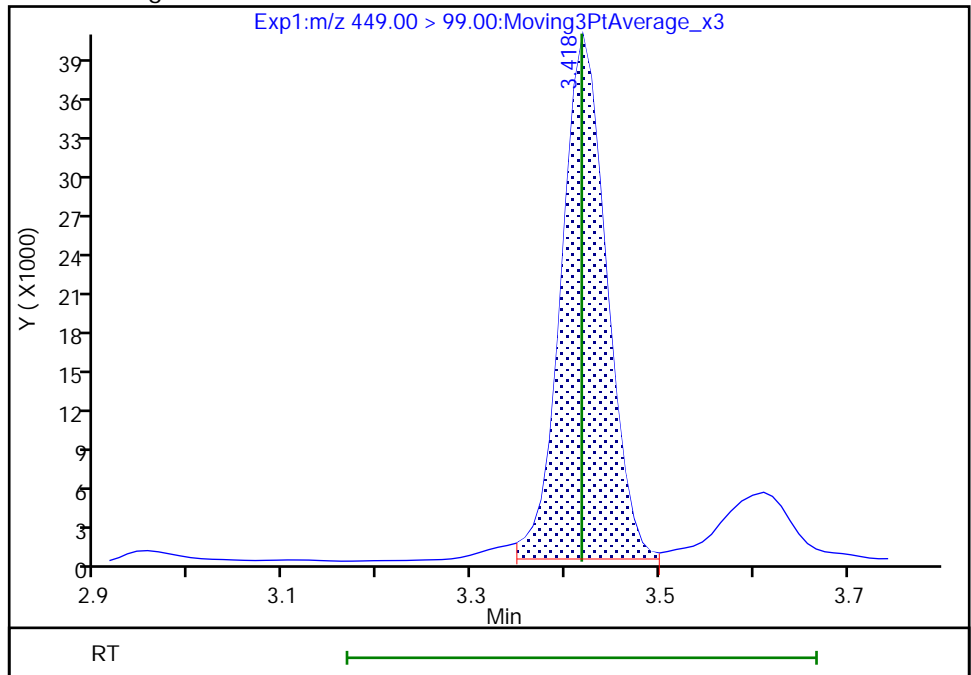
RT: 3.42
Area: 142118
Amount: 0.869909
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 135385
Amount: 0.869040
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:29:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

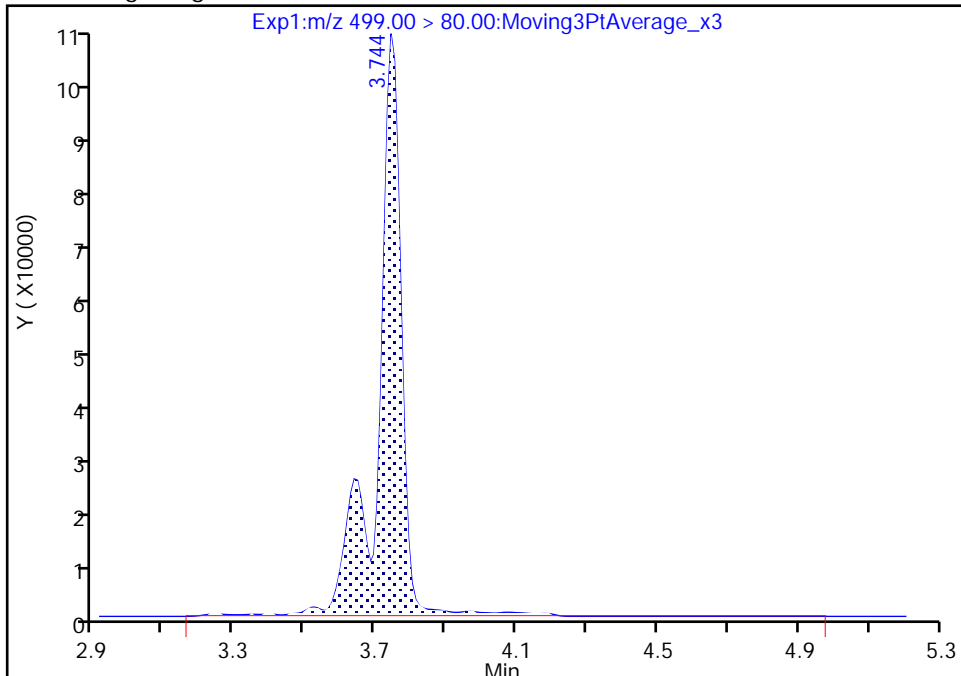
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A23.d
Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

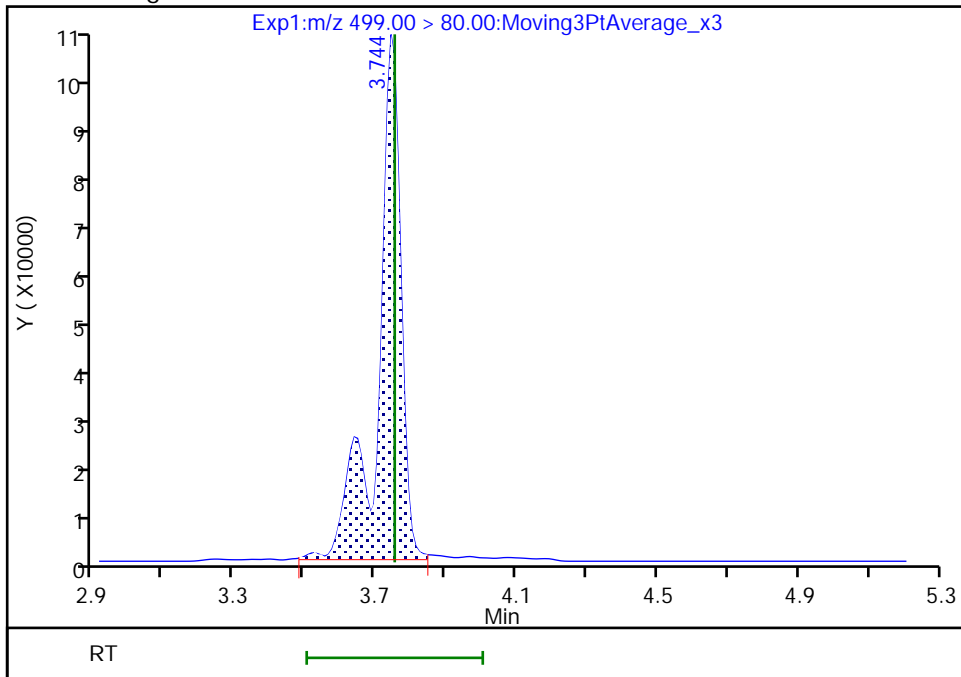
RT: 3.74
Area: 485213
Amount: 0.903823
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 456993
Amount: 0.851257
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:31:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

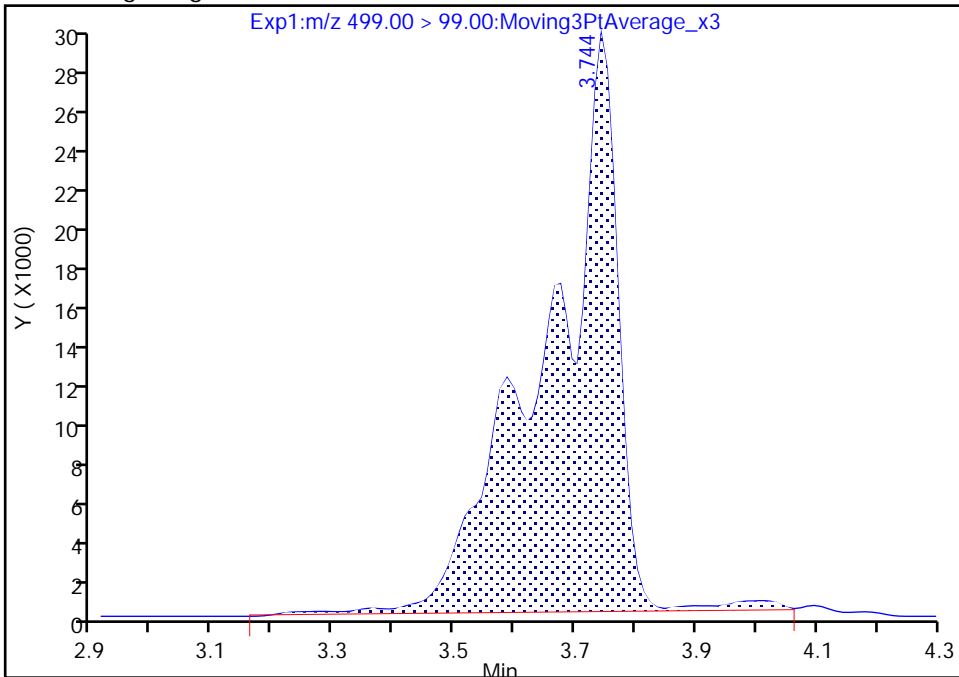
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

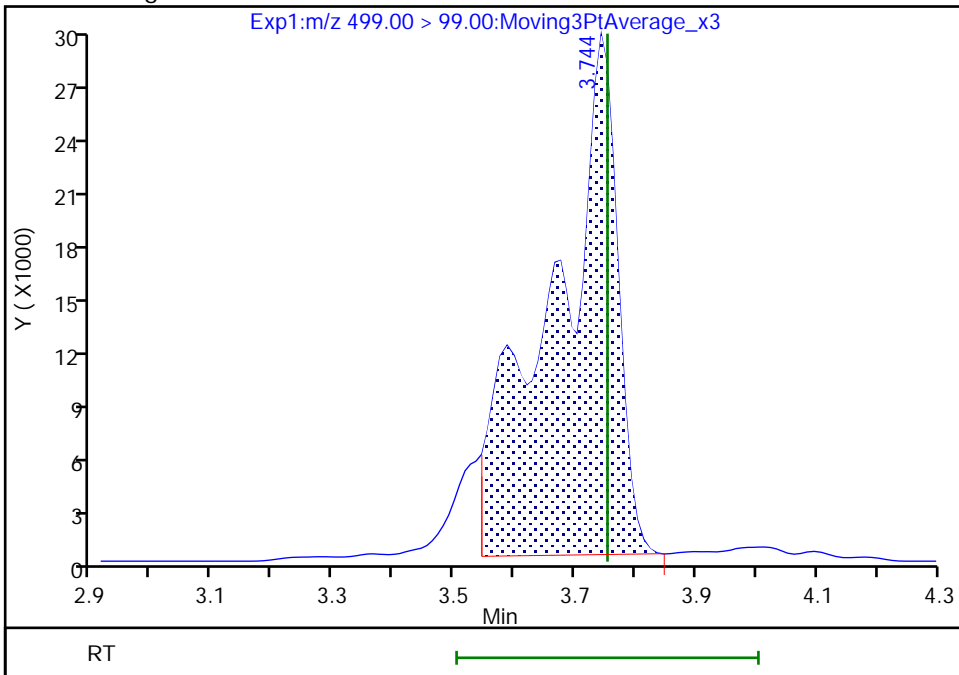
RT: 3.74
Area: 242462
Amount: 0.903823
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 215729
Amount: 0.851257
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 16:19:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

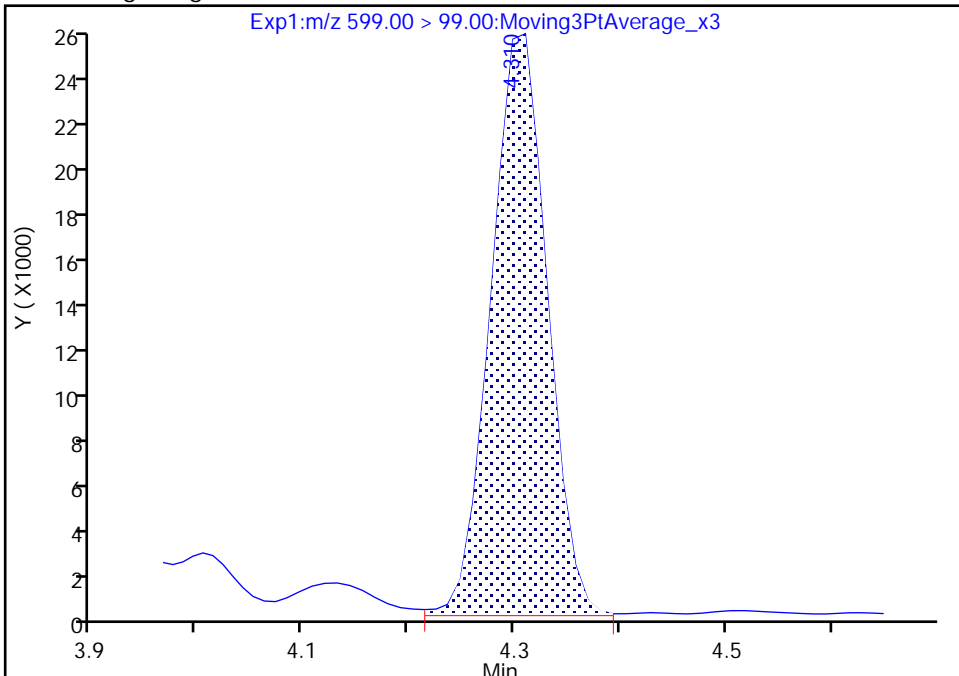
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Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

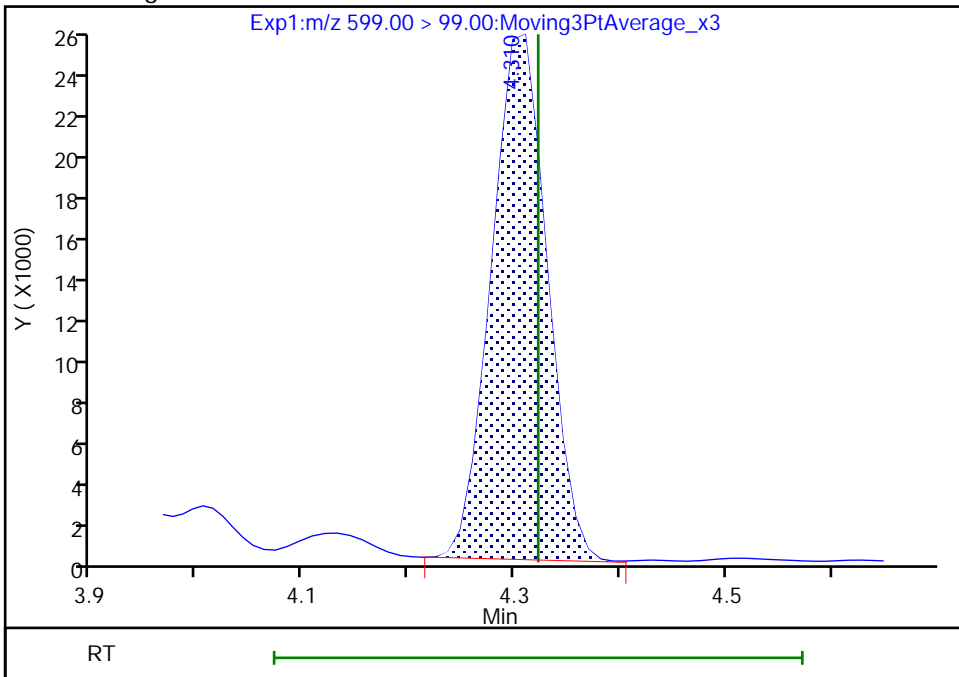
RT: 4.31
Area: 95879
Amount: 0.717175
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 93590
Amount: 0.717175
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:33:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

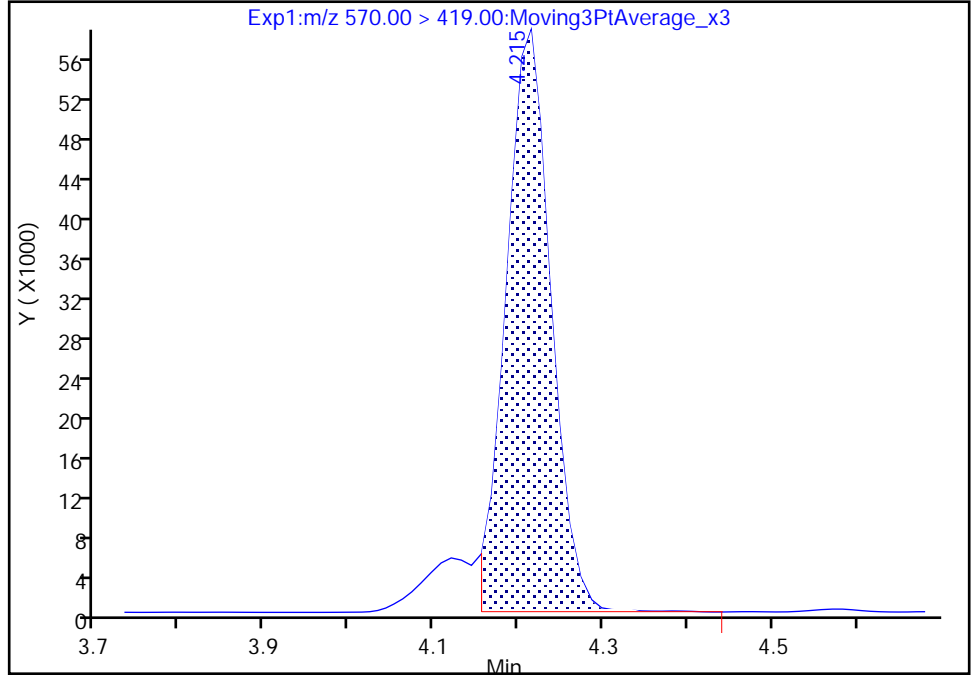
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Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

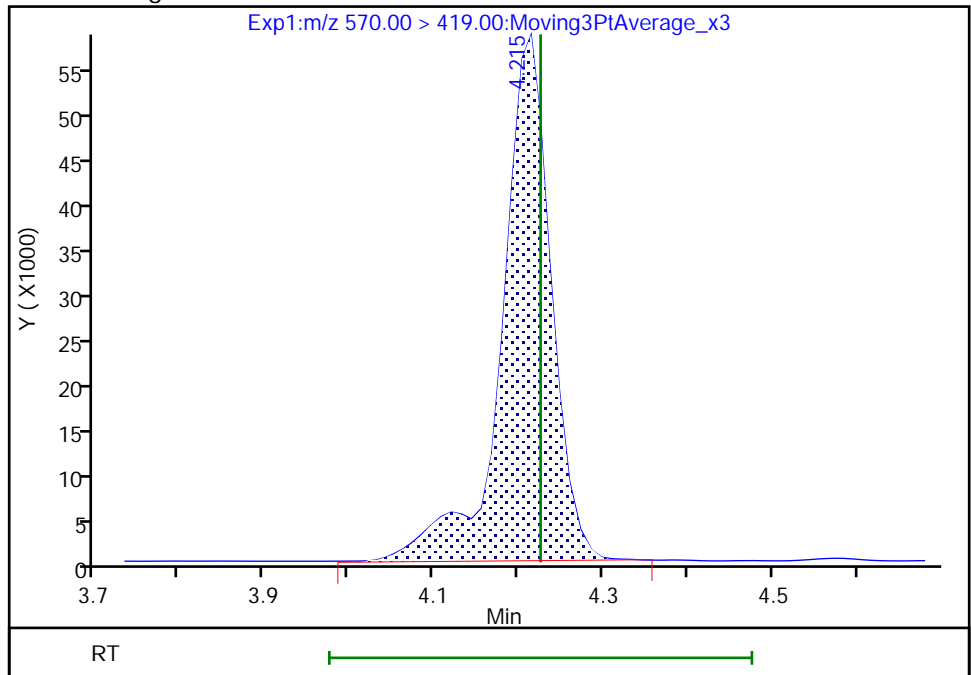
RT: 4.21
Area: 215251
Amount: 1.008779
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 238038
Amount: 1.115571
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:33:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

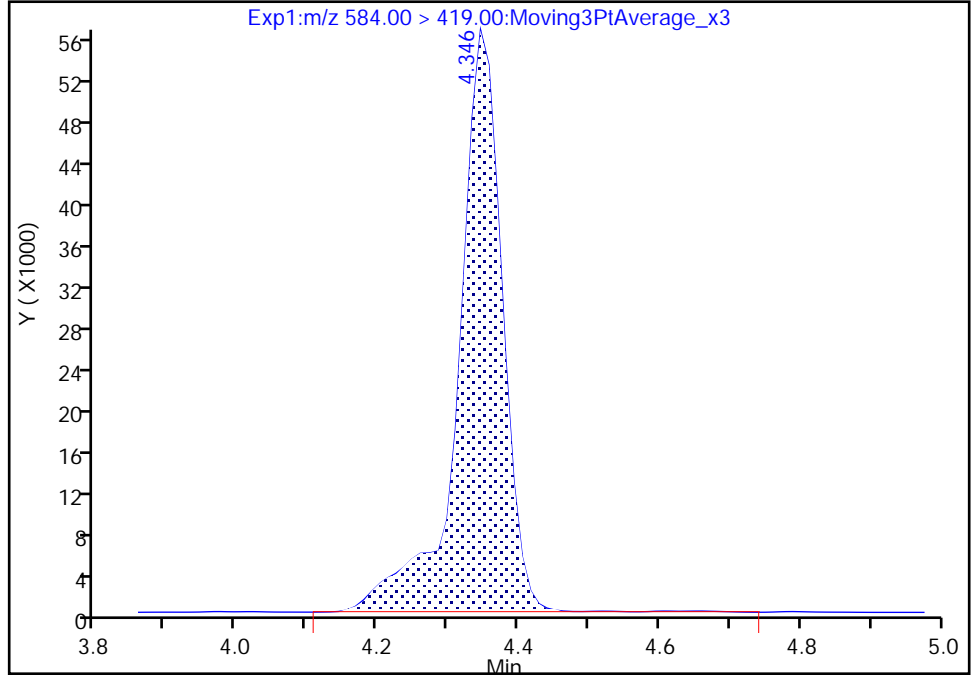
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

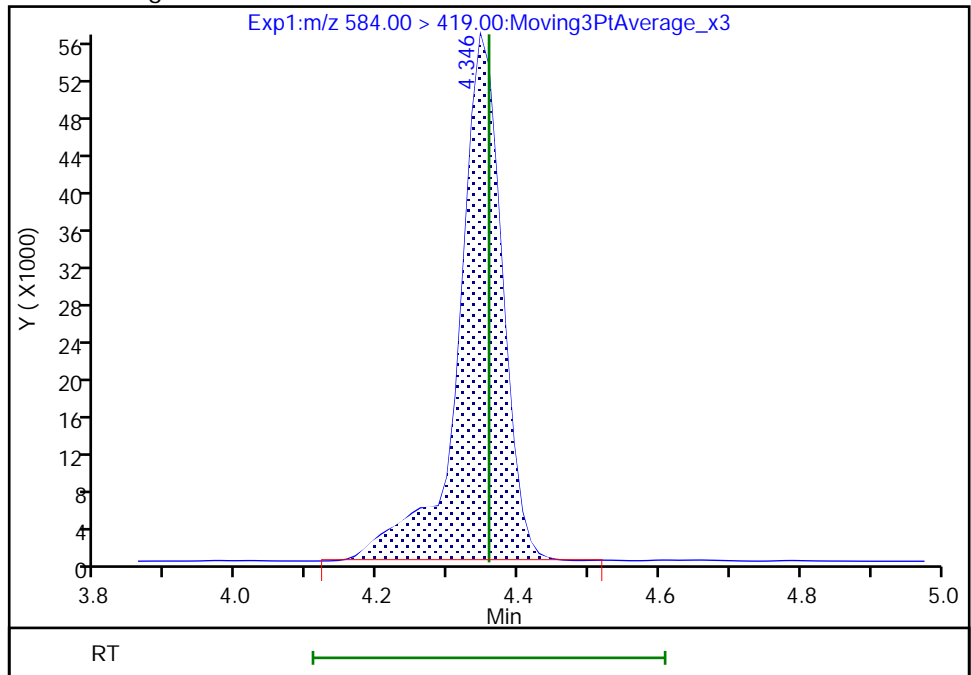
RT: 4.35
Area: 246402
Amount: 0.993289
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 243521
Amount: 0.981675
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:34:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 715 of 742

Eurofins Burlington

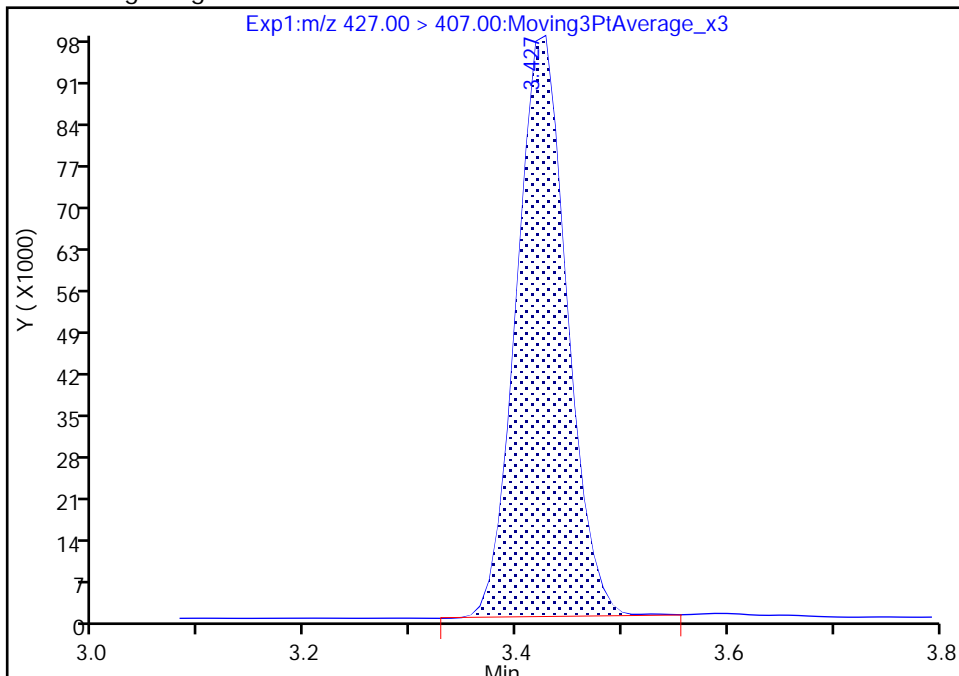
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Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

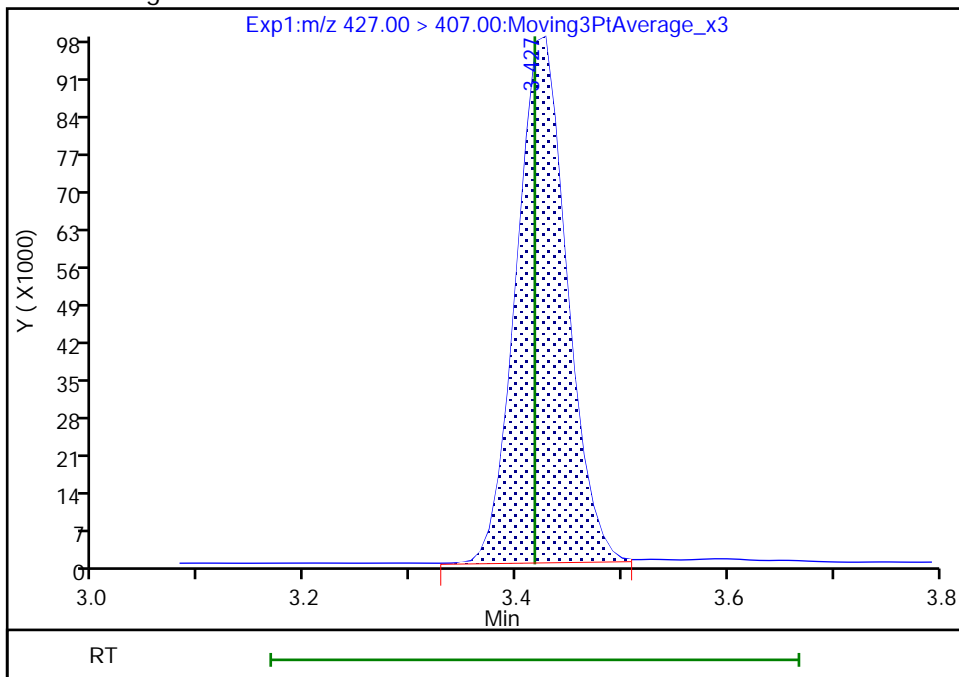
RT: 3.43
Area: 325602
Amount: 0.993060
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 325712
Amount: 0.993396
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:29:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

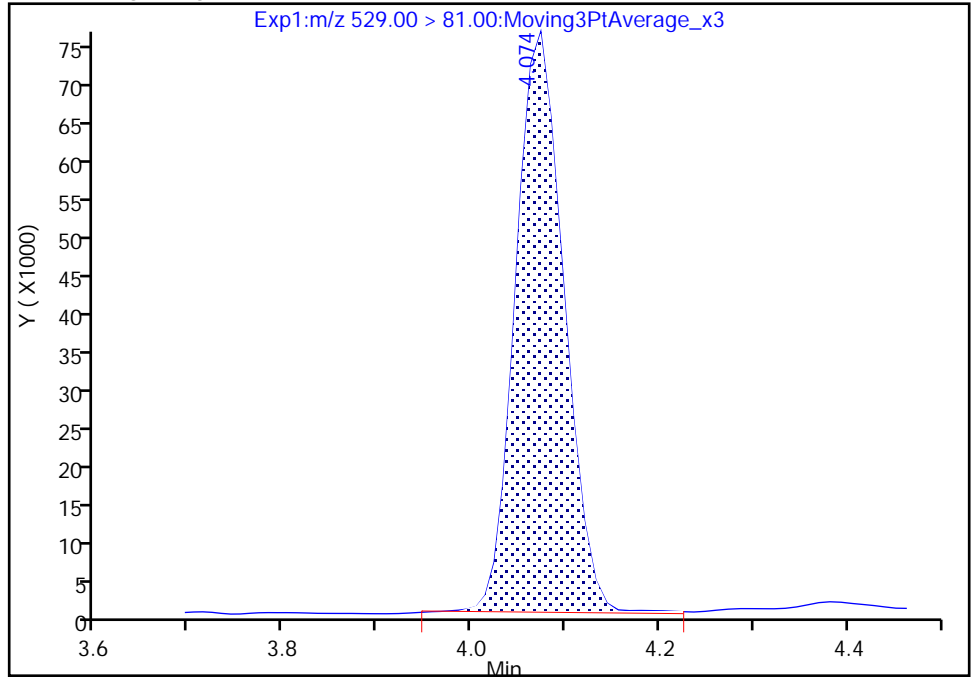
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A23.d
Injection Date: 26-Jan-2023 22:46:02 Instrument ID: LC812
Lims ID: 460-273176-A-4-C MSD
Client ID: BCS-09-63_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 26 M2-8:2 FTS, CAS: STL02280
Signal: 1

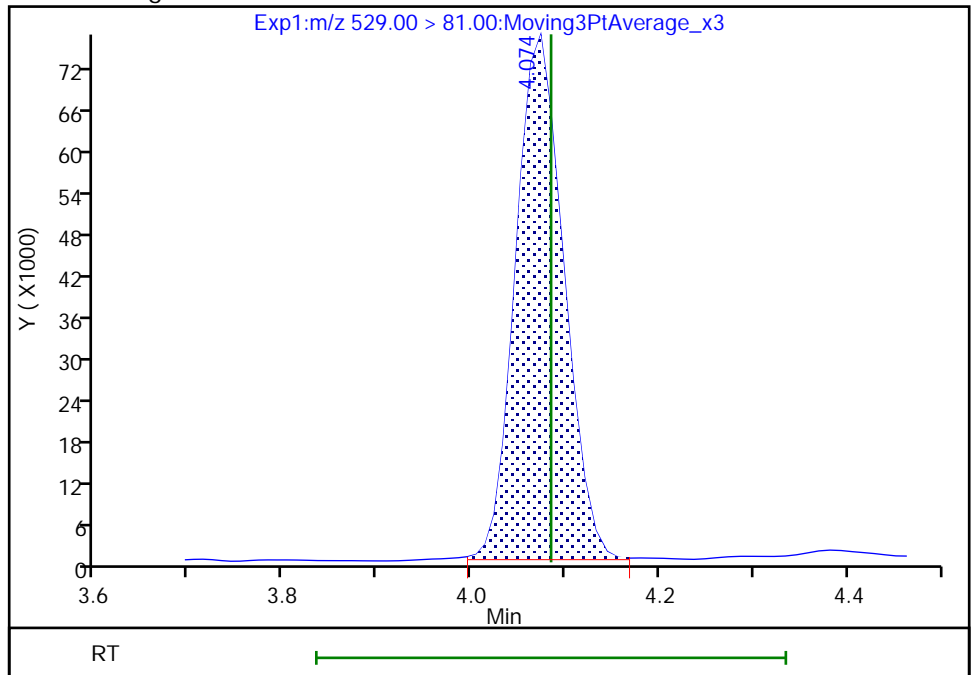
RT: 4.07
Area: 274343
Amount: 1.373535
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 271618
Amount: 1.359892
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 18:33:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Instrument ID: LC812 Start Date: 01/11/2023 17:10

Analysis Batch Number: 187441 End Date: 01/11/2023 18:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/11/2023 17:10	1		C-18 4.6 (mm)
ZZZZZ		01/11/2023 17:18	1		C-18 4.6 (mm)
ZZZZZ		01/11/2023 17:26	1		C-18 4.6 (mm)
ZZZZZ		01/11/2023 17:34	1		C-18 4.6 (mm)
IC 200-187441/5		01/11/2023 17:43	1	PA230111ICAL05.d	C-18 4.6 (mm)
IC 200-187441/6		01/11/2023 17:51	1	PA230111ICAL06.d	C-18 4.6 (mm)
IC 200-187441/7		01/11/2023 17:59	1	PA230111ICAL07.d	C-18 4.6 (mm)
ICISAV 200-187441/8		01/11/2023 18:07	1	PA230111ICAL08.d	C-18 4.6 (mm)
IC 200-187441/9		01/11/2023 18:15	1	PA230111ICAL09.d	C-18 4.6 (mm)
IC 200-187441/10		01/11/2023 18:23	1	PA230111ICAL10.d	C-18 4.6 (mm)
ICB 200-187441/11		01/11/2023 18:32	1	PA230111ICAL11.d	C-18 4.6 (mm)
ICV 200-187441/12		01/11/2023 18:40	1	PA230111ICAL12.d	C-18 4.6 (mm)
ZZZZZ		01/11/2023 18:48	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Instrument ID: LC812 Start Date: 01/26/2023 19:46

Analysis Batch Number: 187884 End Date: 01/26/2023 23:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/26/2023 19:46	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 19:54	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 20:02	1		C-18 4.6 (mm)
CCB 200-187884/4		01/26/2023 20:11	1	PA230126A04.d	C-18 4.6 (mm)
CCVLIS 200-187884/5		01/26/2023 20:19	1	PA230126A05.d	C-18 4.6 (mm)
MB 200-187806/1-A		01/26/2023 20:27	1	PA230126A06.d	C-18 4.6 (mm)
LCS 200-187806/2-A		01/26/2023 20:35	1	PA230126A07.d	C-18 4.6 (mm)
ZZZZZ		01/26/2023 20:43	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 20:51	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 20:59	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 21:08	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 21:16	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 21:24	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 21:32	1		C-18 4.6 (mm)
460-273176-1	BCS-09-60_(15-15.5)P	01/26/2023 21:40	1	PA230126A15.d	C-18 4.6 (mm)
460-273176-1 MS	BCS-09-60_(15-15.5)P MS	01/26/2023 21:48	1	PA230126A16.d	C-18 4.6 (mm)
460-273176-1 MSD	BCS-09-60_(15-15.5)P MSD	01/26/2023 21:57	1	PA230126A17.d	C-18 4.6 (mm)
460-273176-2	BCS-09-61_(15-15.5)P	01/26/2023 22:05	1	PA230126A18.d	C-18 4.6 (mm)
460-273176-3	BCS-09-62_(17-17.5)P	01/26/2023 22:13	1	PA230126A19.d	C-18 4.6 (mm)
CCV 200-187884/20		01/26/2023 22:21	1	PA230126A20.d	C-18 4.6 (mm)
460-273176-4	BCS-09-63_(15-15.5)P	01/26/2023 22:29	1	PA230126A21.d	C-18 4.6 (mm)
460-273176-4 MS	BCS-09-63_(15-15.5)P MS	01/26/2023 22:37	1	PA230126A22.d	C-18 4.6 (mm)
460-273176-4 MSD	BCS-09-63_(15-15.5)P MSD	01/26/2023 22:46	1	PA230126A23.d	C-18 4.6 (mm)
460-273176-5	DUP_09_011823_1P	01/26/2023 22:54	1	PA230126A24.d	C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:02	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:10	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:18	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:26	1		C-18 4.6 (mm)
460-273176-6	DUP_09_011823_2P	01/26/2023 23:34	1	PA230126A29.d	C-18 4.6 (mm)
CCV 200-187884/30		01/26/2023 23:43	1	PA230126A30.d	C-18 4.6 (mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Batch Number: 187441 Batch Start Date: 01/11/23 17:10 Batch Analyst: Chirgwin, Bradley W

Batch Method: 537 (modified) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	LCPFAS28NCICV 00012	PFAS32NCBLK20 00023	PFAS32NCIC1 00014	PFAS32NCIC2 00013	PFAS32NCIC3 00015
IC 200-187441/5		537 (modified)		1 mL			100 uL		
IC 200-187441/6		537 (modified)		1 mL				100 uL	
IC 200-187441/7		537 (modified)		1 mL					100 uL
ICISAV 200-187441/8		537 (modified)		1 mL					
IC 200-187441/9		537 (modified)		1 mL					
IC 200-187441/10		537 (modified)		1 mL					
ICB 200-187441/11		537 (modified)		1 mL		100 uL			
ICV 200-187441/12		537 (modified)		1 mL	100 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS32NCIC4 00036	PFAS32NCIC5 00030	PFAS32NCIC6 00013			
IC 200-187441/5		537 (modified)							
IC 200-187441/6		537 (modified)							
IC 200-187441/7		537 (modified)							
ICISAV 200-187441/8		537 (modified)		100 uL					
IC 200-187441/9		537 (modified)			100 uL				
IC 200-187441/10		537 (modified)				100 uL			
ICB 200-187441/11		537 (modified)							
ICV 200-187441/12		537 (modified)							

Batch Notes	

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.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Batch Number: 187441 Batch Start Date: 01/11/23 17:10 Batch Analyst: Chirgwin, Bradley W

Batch Method: 537 (modified) Batch End Date: _____

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.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Batch Number: 187806 Batch Start Date: 01/24/23 15:34 Batch Analyst: Kane, Elizabeth

Batch Method: SHAKE Batch End Date: 01/26/23 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCPFC32MTXStk 00049	LCPFIDA21_spk 00010	PFAS21 IS Stk 00049	
MB 200-187806/1		SHAKE, 537 (modified)		5.00 g	10 mL		100 uL	100 uL	
LCS 200-187806/2		SHAKE, 537 (modified)		5.00 g	10 mL	25 uL	100 uL	100 uL	
460-273176-A-1	BCS-09-60_(15-15 .5)P	SHAKE, 537 (modified)	T	5.05 g	10 mL		100 uL	100 uL	
460-273176-A-1 MS	BCS-09-60_(15-15 .5)P	SHAKE, 537 (modified)	T	5.15 g	10 mL	25 uL	100 uL	100 uL	
460-273176-A-1 MSD	BCS-09-60_(15-15 .5)P	SHAKE, 537 (modified)	T	5.03 g	10 mL	25 uL	100 uL	100 uL	
460-273176-A-2	BCS-09-61_(15-15 .5)P	SHAKE, 537 (modified)	T	5.09 g	10 mL		100 uL	100 uL	
460-273176-A-3	BCS-09-62_(17-17 .5)P	SHAKE, 537 (modified)	T	5.11 g	10 mL		100 uL	100 uL	
460-273176-A-4	BCS-09-63_(15-15 .5)P	SHAKE, 537 (modified)	T	5.28 g	10 mL		100 uL	100 uL	
460-273176-A-4 MS	BCS-09-63_(15-15 .5)P	SHAKE, 537 (modified)	T	5.24 g	10 mL	25 uL	100 uL	100 uL	
460-273176-A-4 MSD	BCS-09-63_(15-15 .5)P	SHAKE, 537 (modified)	T	5.16 g	10 mL	25 uL	100 uL	100 uL	
460-273176-A-5	DUP_09_011823_1P	SHAKE, 537 (modified)	T	5.22 g	10 mL		100 uL	100 uL	
460-273176-A-6	DUP_09_011823_2P	SHAKE, 537 (modified)	T	5.16 g	10 mL		100 uL	100 uL	

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.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Batch Number: 187806 Batch Start Date: 01/24/23 15:34 Batch Analyst: Kane, Elizabeth

Batch Method: SHAKE Batch End Date: 01/26/23 15:30

Batch Notes	
Balance ID	M02926
Blank Sand Lot #	1535274
Millipore Water Dispense Date	01/10/2023
Analyst ID - Reagent Drop Witness	NDD
SPE Cartridge Lot ID	Sorbent Lot: X1117-3H/1256 Prod Lot: E02773-1
SPE Cartridge Type	Phenomenex Strata PFAS (Wax/GCB), 500mg/6 mL
Hexane ID	30% Methanol/ DI Water:1687233
Methanol ID	Lot:221080 TALS ID:1668571
Ammonium Hydroxide/MeOH ID	1687236
Sodium Hydroxide ID	1673391
Methanolic Potassium Hydroxide ID	1668906
Manifold ID	IDA 1, IDA 2
Acetic Acid ID	1453517
pH Indicator ID	234921U
Pipette/Syringe/Dispenser ID	QH77727
Analyst ID - IS Reagent Drop	KFW
Analyst ID - IS Reagent Drop Witness	EK
Internal Standard ID	1686622
Analyst ID - Aliquot Step	KFW
Analyst ID - Final Volume Step	KFW
Sonication Start Time	01/25/2023 09:45
Sonication Stop Time	01/25/2023 12:45
Centrifuge Tube ID	430791
QC Bottle Lot ID	0317201H
Batch Comment	IDA:A MTX:B IS:E

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington

Job Number: 460-273176-1

SDG No.: _____

Project: Inwood - Lot 9

Client Sample ID	Lab Sample ID
BCS-09-60_(15-15.5)P	460-273176-1
BCS-09-61_(15-15.5)P	460-273176-2
BCS-09-62_(17-17.5)P	460-273176-3
BCS-09-63_(15-15.5)P	460-273176-4
DUP_09_011823_1P	460-273176-5
DUP_09_011823_2P	460-273176-6

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington

Job Number: 460-273176-1

SDG Number: _____

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 04/01/2009 07:55

Analyte	Wavelength/ Mass	RL (%)	
Percent Solids		0.1	

General Chemistry Raw Data Report

Job ID: 460-273176-1

Batch: 187837
Method: Moisture

Analyst Initials: RWM
Instrument: No Equipment

Lab Sample ID: 460-273176-A-1

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	68.6335403726708	%

Lab Sample ID: 460-273176-A-2

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	25.1256281407035	%

Lab Sample ID: 460-273176-A-3

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	49.4714587737843	%

Lab Sample ID: 460-273176-A-4

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	46.5049928673324	%

Lab Sample ID: 460-273176-A-5

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	73.4026745913819	%

Lab Sample ID: 460-273176-A-6

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	63.8930163447251	%

Lab Sample ID: 460-273176-A-6 DU

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	65.3352353780314	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273176-1

SDG No.: _____

Batch Number: 187837 Batch Start Date: 01/25/23 16:13 Batch Analyst: McNabb, Robert W

Batch Method: Moisture Batch End Date: 01/26/23 11:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
460-273176-A-1	BCS-09-60_(15-15) .5)P	Moisture	T	0.98 g	7.42 g	5.40 g	31.366459627329 2 %	68.633540372670 8 %	
460-273176-A-2	BCS-09-61_(15-15) .5)P	Moisture	T	1.02 g	6.99 g	2.52 g	74.874371859296 5 %	25.125628140703 5 %	
460-273176-A-3	BCS-09-62_(17-17) .5)P	Moisture	T	1.01 g	10.47 g	5.69 g	50.528541226215 7 %	49.471458773784 3 %	
460-273176-A-4	BCS-09-63_(15-15) .5)P	Moisture	T	1.02 g	8.03 g	4.28 g	53.495007132667 6 %	46.504992867332 4 %	
460-273176-A-5	DUP_09_011823_1P	Moisture	T	0.98 g	7.71 g	5.92 g	26.597325408618 1 %	73.402674591381 9 %	
460-273176-A-6	DUP_09_011823_2P	Moisture	T	0.98 g	7.71 g	5.28 g	36.106983655274 9 %	63.893016344725 1 %	
460-273176-A-6 DU	DUP_09_011823_2P	Moisture	T	0.99 g	8.00 g	5.57 g	34.664764621968 6 %	65.335235378031 4 %	

Batch Notes	
Balance ID	L92017
Oven ID	WC OVEN #2
Thermometer ID	328 (CF=-1)
Date samples were placed in the oven	01/25/2023
Time samples were place in the oven	16:13
Temperature - Start - Uncorrected	110 Degrees C
Oven Temp In	109 Degrees C
Date samples were removed from oven	01/26/2023
Time Samples were removed from oven	10:46
Temperature - End - Uncorrected	111 Degrees C
Oven Temp Out	110 Degrees C
Date and Time Samples in Desiccator	01/26/2023 10:46
Date and Time Samples out of Desiccator	01/26/2023 11:01

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.

Moisture

Subcontract Data

Shipping and Receiving Documents

TAL-8210

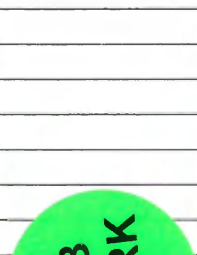
NYC
Regulatory Program: RCRA NPDES Other:

Client Contact
Company Name: Roux Associates
Address: 209 Shattuck St
City/State/Zip: Islandia, NY 11749
Phone:
Fax:
Project Name: Inward Lot 9
Site:
P O #: 2477.00081002

Project Manager: J. Rusk Date: 1/18/23
Tel/Email: vschroeder@eurofins.com
Site Contact: J. Rusk
Lab Contact:
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day
10 days

COC No. of COCs
Sampler: J. Rusk
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.: 273176

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
<u>BGS-09-60-(15-15.5)P</u>	<u>1/18</u>	<u>1205</u>	<u>G</u>	<u>S</u>	<u>3</u>	<u>Y</u>	<u>Y</u>	<u>MS/MSD</u>
<u>BGS-09-61-(15-15.5)P</u>		<u>1215</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>2</u>
<u>BGS-09-62-(17-17.5)P</u>		<u>1225</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>3</u>
<u>BGS-09-63-(15-15.5)P</u>		<u>1235</u>	<u>↓</u>	<u>↓</u>	<u>3</u>	<u>Y</u>	<u>Y</u>	<u>MS/MSD</u>
<u>DUP-09-011823-1P</u>		<u>1945</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>4</u>
<u>DUP-09-011823-2P</u>		<u>1255</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>5</u>
								<u>6</u>



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
Possible Hazard Identification: Please List any EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

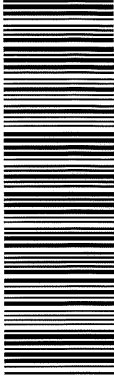
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Company	Date/Time	Received by	Received in Laboratory by
<u>Roux</u>	<u>1340 1/18</u>	<u>[Signature]</u>	<u>[Signature]</u>
<u>[Signature]</u>	<u>1823 1800</u>	<u>[Signature]</u>	<u>[Signature]</u>
<u>[Signature]</u>	<u>1/18/23 1800</u>	<u>[Signature]</u>	<u>[Signature]</u>

Therm ID No.:
Cooler Temp. (°C): Obs'd: Corr'd:
Custody Seal No.:
Relinquished by: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

1/21/2023 12:25 PM

Chain of Custody Record



JOC No 460-67328.1

Page 1 of 2

Job # 460-273176-1

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
Other:

M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

State of Orig. New York

Company TestAmerica Laboratories, Inc.

Address 530 Community Drive, Suite 11,
City South Burlington
State, Zip VT, 05403
Phone 802-660-1990(Tel) 802-660-1919(Fax)
Email
Project Name Inwood - Lot 9
Site

Due Date Requested: 1/30/2023
TAT Requested (days):

PO #
WO #
Project # 46026799
SSOW#

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

PFCA/IDA/Shake_Bath_14D PFAS, Standard List (21)

Moisture

Matrix (W=water, S=solid, O=metal, BT=Tissue, A=Air)

Sample Type (C=Comp, G=grab)

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code:

Total Number of containers

Special Instructions/Note:

BCS-09-60_(15-15.5)P (460-273176-1)

BCS-09-60_(15-15.5)P (460-273176-1MS)

BCS-09-60_(15-15.5)P (460-273176-1MSD)

BCS-09-61_(15-15.5)P (460-273176-2)

BCS-09-62_(17-17.5)P (460-273176-3)

BCS-09-63_(15-15.5)P (460-273176-4)

BCS-09-63_(15-15.5)P (460-273176-4MS)

BCS-09-63_(15-15.5)P (460-273176-4MSD)

DUP_09_011823_1P (460-273176-5)

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank 1

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Sampler Haas, Melissa
Phone E-Mail
Melissa.Haas@et.eurofins.com
Accreditations Required (See note)
NELAP - New York

Due Date Requested: 1/30/2023
TAT Requested (days):

PO #
WO #
Project # 46026799
SSOW#

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

PFCA/IDA/Shake_Bath_14D PFAS, Standard List (21)

Moisture

Matrix (W=water, S=solid, O=metal, BT=Tissue, A=Air)

Sample Type (C=Comp, G=grab)

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code:

Total Number of containers

Special Instructions/Note:

BCS-09-60_(15-15.5)P (460-273176-1)

BCS-09-60_(15-15.5)P (460-273176-1MS)

BCS-09-60_(15-15.5)P (460-273176-1MSD)

BCS-09-61_(15-15.5)P (460-273176-2)

BCS-09-62_(17-17.5)P (460-273176-3)

BCS-09-63_(15-15.5)P (460-273176-4)

BCS-09-63_(15-15.5)P (460-273176-4MS)

BCS-09-63_(15-15.5)P (460-273176-4MSD)

DUP_09_011823_1P (460-273176-5)

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank 1

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Received by:

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Company: FETMA Company

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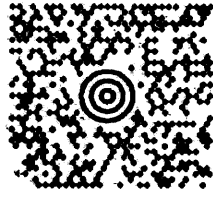
Date/Time:

KENNETH RIVERA
9083615236
EUROFINS-EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

41 LBS

1 OF 1

SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403



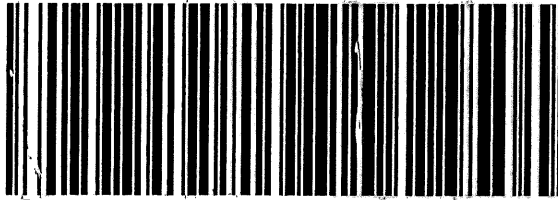
VT 054 0-02



UPS NEXT DAY AIR

TRACKING #: 1Z 73R 91R 01 9144 8982

1



BILLING: P/P



.XOL 23.01.06 NV45 3.0A 01/2023*

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-273176-1

Login Number: 273176
List Number: 1
Creator: Casallas, Angela C

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-273176-1

Login Number: 273176
List Number: 2
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington
List Creation: 01/20/23 11:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1909076
Sample custody seals, if present, are intact.	True	
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.	True	
Cooler Temperature is recorded.	True	0.5°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.