

 ANALYTICAL REPORT**PREPARED FOR**

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JOB DESCRIPTION

Inwood - Lot 9

JOB NUMBER

460-271908-1

Eurofins Edison

Job Notes

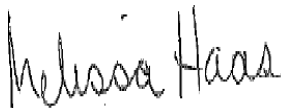
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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Inwood - Lot 9

Report Number: 460-271908-1

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 12/21/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 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-09-64_(12-12.5)P (460-271908-1), BCS-09-65_(12-12.5)P (460-271908-2), BCS-09-66_(12-12.5)P (460-271908-3) and BCS-09-67_(12-12.5)P (460-271908-4) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 01/03/2023 and analyzed on 01/05/2023.

Sample FB-09-12212022P (460-271908-5) was analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 01/03/2023 and analyzed on 01/04/2023.

Method 537 (modified): 13C8 FOSA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: FB-09-12212022P (460-271908-5). 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).

Method 537 (modified): M2-8:2 FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: (460-271803-A-3-B MS) and (460-271803-A-3-C MSD). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The matrix spike (MS) recoveries for preparation batch 200-187189 and analytical batch 200-187284 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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-09-64_(12-12.5)P (460-271908-1), BCS-09-65_(12-12.5)P (460-271908-2), BCS-09-66_(12-12.5)P (460-271908-3) and BCS-09-67_(12-12.5)P (460-271908-4) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 01/03/2023.

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: 460-271908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-271908-1	BCS-09-64_(12-12.5)P	Solid	12/21/22 13:05	12/21/22 19:00
460-271908-2	BCS-09-65_(12-12.5)P	Solid	12/21/22 13:15	12/21/22 19:00
460-271908-3	BCS-09-66_(12-12.5)P	Solid	12/21/22 13:25	12/21/22 19:00
460-271908-4	BCS-09-67_(12-12.5)P	Solid	12/21/22 13:35	12/21/22 19:00
460-271908-5	FB-09-12212022P	Water	12/21/22 13:45	12/21/22 19:00

Detection Summary

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

Job ID: 460-271908-1

Client Sample ID: BCS-09-64_(12-12.5)P

Lab Sample ID: 460-271908-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.065	J	0.27	0.063	ug/Kg	1		☼	537 (modified)	Total/NA

Client Sample ID: BCS-09-65_(12-12.5)P

Lab Sample ID: 460-271908-2

No Detections.

Client Sample ID: BCS-09-66_(12-12.5)P

Lab Sample ID: 460-271908-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
8:2 FTS	0.057	J	2.72	0.050	ug/Kg	1		☼	537 (modified)	Total/NA

Client Sample ID: BCS-09-67_(12-12.5)P

Lab Sample ID: 460-271908-4

No Detections.

Client Sample ID: FB-09-12212022P

Lab Sample ID: 460-271908-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 460-271908-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
Moisture	Percent Moisture	EPA	EET BUR
3535	Solid-Phase Extraction (SPE)	SW846	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: 460-271908-1

Client Sample ID: BCS-09-64_(12-12.5)P

Lab Sample ID: 460-271908-1

Date Collected: 12/21/22 13:05

Matrix: Solid

Date Received: 12/21/22 19:00

Percent Solids: 72.0

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.68	U	0.68	0.45	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.075	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorohexanoic acid (PFHxA)	0.065	J	0.27	0.063	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.079	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.037	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.036	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.045	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.056	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.73	U	2.73	0.15	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.73	U	2.73	0.11	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
6:2 FTS	2.73	U	2.73	0.078	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1
8:2 FTS	2.73	U	2.73	0.051	ug/Kg	☼	01/03/23 09:24	01/05/23 17:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	92		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C4 PFHpA	98		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C4 PFOA	94		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C4 PFOS	87		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C5 PFNA	100		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C4 PFBA	84		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C2 PFHxA	89		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C2 PFDA	99		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C2 PFUnA	102		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C2 PFDoA	98		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C8 FOSA	79		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C5 PFPeA	85		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C2 PFTeA	110		50 - 150	01/03/23 09:24	01/05/23 17:49	1
d3-NMeFOSAA	96		50 - 150	01/03/23 09:24	01/05/23 17:49	1
d5-NEtFOSAA	95		50 - 150	01/03/23 09:24	01/05/23 17:49	1
M2-6:2 FTS	104		50 - 150	01/03/23 09:24	01/05/23 17:49	1
M2-8:2 FTS	101		50 - 150	01/03/23 09:24	01/05/23 17:49	1
13C3 PFBS	87		50 - 150	01/03/23 09:24	01/05/23 17:49	1

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Client Sample Results

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

Job ID: 460-271908-1

Client Sample ID: BCS-09-65_(12-12.5)P

Lab Sample ID: 460-271908-2

Date Collected: 12/21/22 13:15

Matrix: Solid

Date Received: 12/21/22 19:00

Percent Solids: 75.3

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	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluoropentanoic acid (PFPeA)	0.26	U	0.26	0.072	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.060	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluoroheptanoic acid (PFHpA)	0.26	U	0.26	0.051	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorooctanoic acid (PFOA)	0.26	U	0.26	0.076	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorononanoic acid (PFNA)	0.26	U	0.26	0.044	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorodecanoic acid (PFDA)	0.26	U	0.26	0.036	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluoroundecanoic acid (PFUnA)	0.26	U	0.26	0.035	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.033	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.033	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.034	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.043	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.053	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluoroheptanesulfonic acid (PFHpS)	0.26	U	0.26	0.030	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorooctanesulfonic acid (PFOS)	0.26	U	0.26	0.14	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorodecanesulfonic acid (PFDS)	0.26	U	0.26	0.025	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
Perfluorooctanesulfonamide (FOSA)	0.26	U	0.26	0.044	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.60	U	2.60	0.14	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.60	U	2.60	0.11	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
6:2 FTS	2.60	U	2.60	0.074	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1
8:2 FTS	2.60	U	2.60	0.048	ug/Kg	☼	01/03/23 09:24	01/05/23 17:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	83		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C4 PFHpA	83		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C4 PFOA	88		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C4 PFOS	76		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C5 PFNA	89		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C4 PFBA	75		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C2 PFHxA	86		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C2 PFDA	89		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C2 PFUnA	87		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C2 PFDoA	84		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C8 FOSA	69		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C5 PFPeA	74		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C2 PFTeA	85		50 - 150	01/03/23 09:24	01/05/23 17:57	1
d3-NMeFOSAA	78		50 - 150	01/03/23 09:24	01/05/23 17:57	1
d5-NEtFOSAA	78		50 - 150	01/03/23 09:24	01/05/23 17:57	1
M2-6:2 FTS	91		50 - 150	01/03/23 09:24	01/05/23 17:57	1
M2-8:2 FTS	83		50 - 150	01/03/23 09:24	01/05/23 17:57	1
13C3 PFBS	78		50 - 150	01/03/23 09:24	01/05/23 17:57	1

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Client Sample Results

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

Job ID: 460-271908-1

Client Sample ID: BCS-09-66_(12-12.5)P

Lab Sample ID: 460-271908-3

Date Collected: 12/21/22 13:25

Matrix: Solid

Date Received: 12/21/22 19:00

Percent Solids: 73.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.68	U	0.68	0.45	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.075	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.063	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.079	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.037	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.045	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.056	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.72	U	2.72	0.15	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.72	U	2.72	0.11	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
6:2 FTS	2.72	U	2.72	0.078	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1
8:2 FTS	0.057	J	2.72	0.050	ug/Kg	☼	01/03/23 09:24	01/05/23 18:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	85		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C4 PFHpA	89		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C4 PFOA	94		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C4 PFOS	79		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C5 PFNA	91		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C4 PFBA	82		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C2 PFHxA	88		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C2 PFDA	96		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C2 PFUnA	84		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C2 PFDoA	83		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C8 FOSA	74		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C5 PFPeA	80		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C2 PFTeA	84		50 - 150	01/03/23 09:24	01/05/23 18:05	1
d3-NMeFOSAA	82		50 - 150	01/03/23 09:24	01/05/23 18:05	1
d5-NEtFOSAA	85		50 - 150	01/03/23 09:24	01/05/23 18:05	1
M2-6:2 FTS	99		50 - 150	01/03/23 09:24	01/05/23 18:05	1
M2-8:2 FTS	91		50 - 150	01/03/23 09:24	01/05/23 18:05	1
13C3 PFBS	83		50 - 150	01/03/23 09:24	01/05/23 18:05	1

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Client Sample Results

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

Job ID: 460-271908-1

Client Sample ID: BCS-09-67_(12-12.5)P

Lab Sample ID: 460-271908-4

Date Collected: 12/21/22 13:35

Matrix: Solid

Date Received: 12/21/22 19:00

Percent Solids: 73.7

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.67	U	0.67	0.44	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.074	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.062	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.052	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.078	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.036	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.044	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.055	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.69	U	2.69	0.15	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.69	U	2.69	0.11	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
6:2 FTS	2.69	U	2.69	0.077	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1
8:2 FTS	2.69	U	2.69	0.050	ug/Kg	☼	01/03/23 09:24	01/05/23 18:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	84		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C4 PFHpA	91		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C4 PFOA	93		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C4 PFOS	82		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C5 PFNA	95		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C4 PFBA	81		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C2 PFHxA	87		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C2 PFDA	104		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C2 PFUnA	98		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C2 PFDoA	89		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C8 FOSA	81		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C5 PFPeA	84		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C2 PFTeA	86		50 - 150	01/03/23 09:24	01/05/23 18:13	1
d3-NMeFOSAA	90		50 - 150	01/03/23 09:24	01/05/23 18:13	1
d5-NEtFOSAA	89		50 - 150	01/03/23 09:24	01/05/23 18:13	1
M2-6:2 FTS	99		50 - 150	01/03/23 09:24	01/05/23 18:13	1
M2-8:2 FTS	98		50 - 150	01/03/23 09:24	01/05/23 18:13	1
13C3 PFBS	82		50 - 150	01/03/23 09:24	01/05/23 18:13	1

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Client Sample Results

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

Job ID: 460-271908-1

Client Sample ID: FB-09-12212022P

Lab Sample ID: 460-271908-5

Date Collected: 12/21/22 13:45

Matrix: Water

Date Received: 12/21/22 19:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.33	U	4.33	1.04	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluoropentanoic acid (PFPeA)	1.73	U	1.73	0.59	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorohexanoic acid (PFHxA)	1.73	U	1.73	0.56	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluoroheptanoic acid (PFHpA)	1.73	U	1.73	0.47	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorooctanoic acid (PFOA)	1.73	U	1.73	0.66	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorononanoic acid (PFNA)	1.73	U	1.73	0.42	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorodecanoic acid (PFDA)	1.73	U	1.73	0.40	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluoroundecanoic acid (PFUnA)	1.73	U	1.73	0.48	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorododecanoic acid (PFDoA)	1.73	U	1.73	0.42	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorotridecanoic acid (PFTriA)	1.73	U	1.73	0.42	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorotetradecanoic acid (PFTeA)	1.73	U	1.73	0.55	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorobutanesulfonic acid (PFBS)	1.73	U	1.73	0.54	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorohexanesulfonic acid (PFHxS)	1.73	U	1.73	0.48	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluoroheptanesulfonic acid (PFHpS)	1.73	U	1.73	0.35	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorodecanesulfonic acid (PFDS)	1.73	U	1.73	0.35	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorooctanesulfonic acid (PFOS)	1.73	U	1.73	0.74	ng/L		01/03/23 10:54	01/04/23 16:48	1
Perfluorooctanesulfonamide (FOSA)	1.73	U	1.73	0.80	ng/L		01/03/23 10:54	01/04/23 16:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.33	U	4.33	1.64	ng/L		01/03/23 10:54	01/04/23 16:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.33	U	4.33	1.38	ng/L		01/03/23 10:54	01/04/23 16:48	1
6:2 FTS	4.33	U	4.33	1.12	ng/L		01/03/23 10:54	01/04/23 16:48	1
8:2 FTS	1.73	U	1.73	0.67	ng/L		01/03/23 10:54	01/04/23 16:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	49	*	50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C4 PFBA	84		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C5 PFPeA	83		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C2 PFHxA	91		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C4 PFHpA	90		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C4 PFOA	96		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C5 PFNA	99		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C2 PFDA	94		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C2 PFUnA	81		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C2 PFDoA	74		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C2 PFTeA	83		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C3 PFBS	87		50 - 150	01/03/23 10:54	01/04/23 16:48	1
18O2 PFHxS	93		50 - 150	01/03/23 10:54	01/04/23 16:48	1
13C4 PFOS	91		50 - 150	01/03/23 10:54	01/04/23 16:48	1
d3-NMeFOSAA	77		50 - 150	01/03/23 10:54	01/04/23 16:48	1
d5-NEtFOSAA	73		50 - 150	01/03/23 10:54	01/04/23 16:48	1
M2-6:2 FTS	105		50 - 150	01/03/23 10:54	01/04/23 16:48	1
M2-8:2 FTS	99		50 - 150	01/03/23 10:54	01/04/23 16:48	1

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Isotope Dilution Summary

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

Job ID: 460-271908-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFBA (50-150)	PFHxA (50-150)	PFDA (50-150)	PFHxS (50-150)	PFUnA (50-150)
460-271803-A-3-B MS	Matrix Spike	83	87	94	79	82	99	79	99
460-271803-A-3-C MSD	Matrix Spike Duplicate	80	84	89	77	77	101	77	98
460-271908-1	BCS-09-64_(12-12.5)P	98	94	100	84	89	99	92	102
460-271908-2	BCS-09-65_(12-12.5)P	83	88	89	75	86	89	83	87
460-271908-3	BCS-09-66_(12-12.5)P	89	94	91	82	88	96	85	84
460-271908-4	BCS-09-67_(12-12.5)P	91	93	95	81	87	104	84	98
LCS 200-187189/2-A	Lab Control Sample	88	87	92	80	84	96	86	91
MB 200-187189/1-A	Method Blank	86	85	88	74	81	92	83	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (50-150)	PFOS (50-150)	PFOSA (50-150)	PFPeA (50-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (50-150)
460-271803-A-3-B MS	Matrix Spike	88	74	65	79	77	128	141	110
460-271803-A-3-C MSD	Matrix Spike Duplicate	83	73	61	75	74	120	128	104
460-271908-1	BCS-09-64_(12-12.5)P	98	87	79	85	110	96	95	104
460-271908-2	BCS-09-65_(12-12.5)P	84	76	69	74	85	78	78	91
460-271908-3	BCS-09-66_(12-12.5)P	83	79	74	80	84	82	85	99
460-271908-4	BCS-09-67_(12-12.5)P	89	82	81	84	86	90	89	99
LCS 200-187189/2-A	Lab Control Sample	78	86	85	79	75	89	82	99
MB 200-187189/1-A	Method Blank	82	78	76	75	74	81	81	94

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	C3PFBS (50-150)	M282FTS (50-150)
460-271803-A-3-B MS	Matrix Spike	78	189 *
460-271803-A-3-C MSD	Matrix Spike Duplicate	78	171 *
460-271908-1	BCS-09-64_(12-12.5)P	87	101
460-271908-2	BCS-09-65_(12-12.5)P	78	83
460-271908-3	BCS-09-66_(12-12.5)P	83	91
460-271908-4	BCS-09-67_(12-12.5)P	82	98
LCS 200-187189/2-A	Lab Control Sample	82	96
MB 200-187189/1-A	Method Blank	79	87

Surrogate Legend

C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFHxS = 18O2 PFHxS
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
C3PFBS = 13C3 PFBS

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Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC

Job ID: 460-271908-1

Project/Site: Inwood - Lot 9

M282FTS = M2-8:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (50-150)	PFBA (50-150)	PFPeA (50-150)	PFHxA (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
460-271908-5	FB-09-12212022P	49 *	84	83	91	90	96	99	94
LCS 200-187194/2-A	Lab Control Sample	64	89	85	91	96	96	98	105
LCSD 200-187194/3-A	Lab Control Sample Dup	68	87	83	92	89	96	99	101
MB 200-187194/1-A	Method Blank	58	88	82	89	94	93	98	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDaA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
460-271908-5	FB-09-12212022P	81	74	83	87	93	91	77	73
LCS 200-187194/2-A	Lab Control Sample	89	64	67	90	94	95	82	73
LCSD 200-187194/3-A	Lab Control Sample Dup	90	77	73	91	93	98	88	79
MB 200-187194/1-A	Method Blank	75	60	62	86	91	94	75	64

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (50-150)	M282FTS (50-150)
460-271908-5	FB-09-12212022P	105	99
LCS 200-187194/2-A	Lab Control Sample	107	98
LCSD 200-187194/3-A	Lab Control Sample Dup	108	103
MB 200-187194/1-A	Method Blank	110	97

Surrogate Legend

PFOSA = 13C8 FOSA
 PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 PFHxA = 13C2 PFHxA
 C4PFHA = 13C4 PFHpA
 PFOA = 13C4 PFOA
 PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA
 PFUnA = 13C2 PFUnA
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 PFHxS = 18O2 PFHxS
 PFOS = 13C4 PFOS
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS

QC Sample Results

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

Job ID: 460-271908-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-187189/1-A

Matrix: Solid

Analysis Batch: 187284

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
6:2 FTS	2.00	U	2.00	0.057	ug/Kg		01/03/23 09:24	01/05/23 16:11	1
8:2 FTS	2.00	U	2.00	0.037	ug/Kg		01/03/23 09:24	01/05/23 16:11	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	86		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C4 PFOA	85		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C5 PFNA	88		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C4 PFBA	74		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C2 PFHxA	81		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C2 PFDA	92		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C2 PFUnA	90		50 - 150	01/03/23 09:24	01/05/23 16:11	1
18O2 PFHxS	83		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C2 PFDoA	82		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C4 PFOS	78		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C8 FOSA	76		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C5 PFPeA	75		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C2 PFTeA	74		50 - 150	01/03/23 09:24	01/05/23 16:11	1
d3-NMeFOSAA	81		50 - 150	01/03/23 09:24	01/05/23 16:11	1
d5-NEtFOSAA	81		50 - 150	01/03/23 09:24	01/05/23 16:11	1
M2-6:2 FTS	94		50 - 150	01/03/23 09:24	01/05/23 16:11	1
13C3 PFBS	79		50 - 150	01/03/23 09:24	01/05/23 16:11	1
M2-8:2 FTS	87		50 - 150	01/03/23 09:24	01/05/23 16:11	1

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QC Sample Results

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

Job ID: 460-271908-1

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

Lab Sample ID: LCS 200-187189/2-A

Matrix: Solid

Analysis Batch: 187284

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	1.904		ug/Kg		95	60 - 140
Perfluoropentanoic acid (PFPeA)	2.00	1.896		ug/Kg		95	60 - 140
Perfluorohexanoic acid (PFHxA)	2.00	1.935		ug/Kg		97	60 - 140
Perfluoroheptanoic acid (PFHpA)	2.00	1.869		ug/Kg		93	60 - 140
Perfluorooctanoic acid (PFOA)	2.00	1.959		ug/Kg		98	60 - 140
Perfluorononanoic acid (PFNA)	2.00	1.918		ug/Kg		96	60 - 140
Perfluorodecanoic acid (PFDA)	2.00	1.912		ug/Kg		96	60 - 140
Perfluoroundecanoic acid (PFUnA)	2.00	1.871		ug/Kg		94	60 - 140
Perfluorododecanoic acid (PFDoA)	2.00	1.903		ug/Kg		95	60 - 140
Perfluorotridecanoic acid (PFTriA)	2.00	1.793		ug/Kg		90	60 - 140
Perfluorotetradecanoic acid (PFTeA)	2.00	1.790		ug/Kg		89	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.77	1.658		ug/Kg		94	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.703		ug/Kg		94	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.823		ug/Kg		96	60 - 140
Perfluorodecanesulfonic acid (PFDS)	1.93	1.604		ug/Kg		83	60 - 140
Perfluorooctanesulfonic acid (PFOS)	1.86	1.696		ug/Kg		91	60 - 140
Perfluorooctanesulfonamide (FOSA)	2.00	1.857		ug/Kg		93	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.028		ug/Kg		101	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.950	J	ug/Kg		97	60 - 140
6:2 FTS	1.90	1.983	J	ug/Kg		105	50 - 150
8:2 FTS	1.92	2.062		ug/Kg		108	60 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	88		50 - 150
13C4 PFOA	87		50 - 150
13C5 PFNA	92		50 - 150
13C4 PFBA	80		50 - 150
13C2 PFHxA	84		50 - 150
13C2 PFDA	96		50 - 150
13C2 PFUnA	91		50 - 150
18O2 PFHxS	86		50 - 150
13C2 PFDoA	78		50 - 150
13C4 PFOS	86		50 - 150
13C8 FOSA	85		50 - 150
13C5 PFPeA	79		50 - 150
13C2 PFTeDA	75		50 - 150
d3-NMeFOSAA	89		50 - 150
d5-NEtFOSAA	82		50 - 150
M2-6:2 FTS	99		50 - 150

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QC Sample Results

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

Job ID: 460-271908-1

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

Lab Sample ID: LCS 200-187189/2-A

Matrix: Solid

Analysis Batch: 187284

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187189

	LCS	LCS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C3 PFBS	82		50 - 150
M2-8:2 FTS	96		50 - 150

Lab Sample ID: 460-271803-A-3-B MS

Matrix: Solid

Analysis Batch: 187284

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 187189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	1.28	U	4.93	4.603		ug/Kg	☼	93	60 - 140
Perfluoropentanoic acid (PFPeA)	0.51	U	4.93	4.918		ug/Kg	☼	100	60 - 140
Perfluorohexanoic acid (PFHxA)	0.37	J	4.93	5.010		ug/Kg	☼	94	60 - 140
Perfluoroheptanoic acid (PFHpA)	0.51	U	4.93	4.512		ug/Kg	☼	91	60 - 140
Perfluorooctanoic acid (PFOA)	0.37	J	4.93	5.180		ug/Kg	☼	98	60 - 140
Perfluorononanoic acid (PFNA)	0.51	U	4.93	4.723		ug/Kg	☼	96	60 - 140
Perfluorodecanoic acid (PFDA)	0.12	J	4.93	4.875		ug/Kg	☼	96	60 - 140
Perfluoroundecanoic acid (PFUnA)	0.25	J	4.93	5.121		ug/Kg	☼	99	60 - 140
Perfluorododecanoic acid (PFDoA)	0.37	J	4.93	5.101		ug/Kg	☼	96	60 - 140
Perfluorotridecanoic acid (PFTriA)	0.29	J	4.93	4.309		ug/Kg	☼	81	60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.32	J	4.93	4.707		ug/Kg	☼	89	60 - 140
Perfluorobutanesulfonic acid (PFBS)	0.16	J	4.36	4.336		ug/Kg	☼	96	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.99		4.49	6.272		ug/Kg	☼	95	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	0.27	J	4.69	5.183		ug/Kg	☼	105	60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.097	J	4.75	4.653		ug/Kg	☼	96	60 - 140
Perfluorooctanesulfonic acid (PFOS)	15.8		4.58	22.66	*	ug/Kg	☼	150	60 - 140
Perfluorooctanesulfonamide (FOSA)	0.13	J	4.93	4.852		ug/Kg	☼	96	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.12	U	4.93	5.061		ug/Kg	☼	103	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.01	J	4.93	5.771		ug/Kg	☼	97	60 - 140
6:2 FTS	5.12	U	4.67	5.035		ug/Kg	☼	108	50 - 150
8:2 FTS	5.12	U	4.72	5.221		ug/Kg	☼	111	60 - 140

	MS	MS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFHpA	83		50 - 150
13C4 PFOA	87		50 - 150
13C5 PFNA	94		50 - 150
13C4 PFBA	79		50 - 150
13C2 PFHxA	82		50 - 150
13C2 PFDA	99		50 - 150
13C2 PFUnA	99		50 - 150
18O2 PFHxS	79		50 - 150
13C2 PFDoA	88		50 - 150

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QC Sample Results

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

Job ID: 460-271908-1

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

Lab Sample ID: 460-271803-A-3-B MS

Matrix: Solid

Analysis Batch: 187284

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 187189

	MS	MS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFOS	74		50 - 150
13C8 FOSA	65		50 - 150
13C5 PFPeA	79		50 - 150
13C2 PFTeDA	77		50 - 150
d3-NMeFOSAA	128		50 - 150
d5-NEtFOSAA	141		50 - 150
M2-6:2 FTS	110		50 - 150
13C3 PFBS	78		50 - 150
M2-8:2 FTS	189	*	50 - 150

Lab Sample ID: 460-271803-A-3-C MSD

Matrix: Solid

Analysis Batch: 187284

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 187189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	1.28	U	4.88	4.722		ug/Kg	☼	97	60 - 140	3	30
Perfluoropentanoic acid (PFPeA)	0.51	U	4.88	4.844		ug/Kg	☼	99	60 - 140	2	30
Perfluorohexanoic acid (PFHxA)	0.37	J	4.88	4.933		ug/Kg	☼	94	60 - 140	2	30
Perfluoroheptanoic acid (PFHpA)	0.51	U	4.88	4.755		ug/Kg	☼	98	60 - 140	5	30
Perfluorooctanoic acid (PFOA)	0.37	J	4.88	4.916		ug/Kg	☼	93	60 - 140	5	30
Perfluorononanoic acid (PFNA)	0.51	U	4.88	4.773		ug/Kg	☼	98	60 - 140	1	30
Perfluorodecanoic acid (PFDA)	0.12	J	4.88	4.575		ug/Kg	☼	91	60 - 140	6	30
Perfluoroundecanoic acid (PFUnA)	0.25	J	4.88	5.029		ug/Kg	☼	98	60 - 140	2	30
Perfluorododecanoic acid (PFDoA)	0.37	J	4.88	5.020		ug/Kg	☼	95	60 - 140	2	30
Perfluorotridecanoic acid (PFTriA)	0.29	J	4.88	4.409		ug/Kg	☼	84	60 - 140	2	30
Perfluorotetradecanoic acid (PFTeA)	0.32	J	4.88	4.614		ug/Kg	☼	88	60 - 140	2	30
Perfluorobutanesulfonic acid (PFBS)	0.16	J	4.31	4.186		ug/Kg	☼	93	60 - 140	4	30
Perfluorohexanesulfonic acid (PFHxS)	1.99		4.44	5.998		ug/Kg	☼	90	60 - 140	4	30
Perfluoroheptanesulfonic acid (PFHpS)	0.27	J	4.64	5.101		ug/Kg	☼	104	60 - 140	2	30
Perfluorodecanesulfonic acid (PFDS)	0.097	J	4.70	4.446		ug/Kg	☼	93	60 - 140	5	30
Perfluorooctanesulfonic acid (PFOS)	15.8		4.52	18.58		ug/Kg	☼	62	60 - 140	20	30
Perfluorooctanesulfonamide (FOSA)	0.13	J	4.88	4.760		ug/Kg	☼	95	60 - 140	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.12	U	4.88	5.199		ug/Kg	☼	107	60 - 140	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.01	J	4.88	5.666		ug/Kg	☼	96	60 - 140	2	30
6:2 FTS	5.12	U	4.62	5.120		ug/Kg	☼	111	50 - 150	2	30
8:2 FTS	5.12	U	4.67	5.244		ug/Kg	☼	112	60 - 140	0	30
	MSD	MSD									
Isotope Dilution	%Recovery	Qualifier	Limits								
13C4 PFHpA	80		50 - 150								
13C4 PFOA	84		50 - 150								

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QC Sample Results

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

Job ID: 460-271908-1

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

Lab Sample ID: 460-271803-A-3-C MSD

Matrix: Solid

Analysis Batch: 187284

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 187189

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C5 PFNA	89		50 - 150
13C4 PFBA	77		50 - 150
13C2 PFHxA	77		50 - 150
13C2 PFDA	101		50 - 150
13C2 PFUnA	98		50 - 150
18O2 PFHxS	77		50 - 150
13C2 PFDoA	83		50 - 150
13C4 PFOS	73		50 - 150
13C8 FOSA	61		50 - 150
13C5 PFPeA	75		50 - 150
13C2 PFTeDA	74		50 - 150
d3-NMeFOSAA	120		50 - 150
d5-NEtFOSAA	128		50 - 150
M2-6:2 FTS	104		50 - 150
13C3 PFBS	78		50 - 150
M2-8:2 FTS	171	*	50 - 150

Lab Sample ID: MB 200-187194/1-A

Matrix: Water

Analysis Batch: 187252

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187194

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	5.00	U	5.00	1.20	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	0.68	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.65	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.54	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.76	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.49	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.46	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.55	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.49	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorotridecanoic acid (PFTriA)	2.00	U	2.00	0.48	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorotetradecanoic acid (PFTeA)	2.00	U	2.00	0.64	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.62	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.55	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.41	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.40	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.85	ng/L		01/03/23 10:54	01/04/23 15:42	1
Perfluorooctanesulfonamide (FOSA)	2.00	U	2.00	0.92	ng/L		01/03/23 10:54	01/04/23 15:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	U	5.00	1.90	ng/L		01/03/23 10:54	01/04/23 15:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	U	5.00	1.60	ng/L		01/03/23 10:54	01/04/23 15:42	1
6:2 FTS	5.00	U	5.00	1.30	ng/L		01/03/23 10:54	01/04/23 15:42	1
8:2 FTS	2.00	U	2.00	0.77	ng/L		01/03/23 10:54	01/04/23 15:42	1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFHpA	94		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C4 PFOA	93		50 - 150	01/03/23 10:54	01/04/23 15:42	1

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QC Sample Results

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

Job ID: 460-271908-1

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

Lab Sample ID: MB 200-187194/1-A

Matrix: Water

Analysis Batch: 187252

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187194

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C5 PFNA	98		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C4 PFBA	88		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C2 PFHxA	89		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C2 PFDA	99		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C2 PFUnA	75		50 - 150	01/03/23 10:54	01/04/23 15:42	1
18O2 PFHxS	91		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C2 PFDoA	60		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C4 PFOS	94		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C8 FOSA	58		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C5 PFPeA	82		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C2 PFTeDA	62		50 - 150	01/03/23 10:54	01/04/23 15:42	1
d3-NMeFOSAA	75		50 - 150	01/03/23 10:54	01/04/23 15:42	1
d5-NEtFOSAA	64		50 - 150	01/03/23 10:54	01/04/23 15:42	1
M2-6:2 FTS	110		50 - 150	01/03/23 10:54	01/04/23 15:42	1
13C3 PFBS	86		50 - 150	01/03/23 10:54	01/04/23 15:42	1
M2-8:2 FTS	97		50 - 150	01/03/23 10:54	01/04/23 15:42	1

Lab Sample ID: LCS 200-187194/2-A

Matrix: Water

Analysis Batch: 187252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	40.98		ng/L		102	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	40.60		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	39.44		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	37.70		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.15		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	40.0	40.90		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	39.48		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	41.54		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	39.26		ng/L		98	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	36.39		ng/L		91	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	36.20		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	35.18		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.69		ng/L		101	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	38.1	38.77		ng/L		102	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	29.20		ng/L		76	70 - 130
Perfluorooctanesulfonic acid (PFOS)	37.1	34.53		ng/L		93	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	34.56		ng/L		86	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.17		ng/L		105	70 - 130

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QC Sample Results

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

Job ID: 460-271908-1

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

Lab Sample ID: LCS 200-187194/2-A

Matrix: Water

Analysis Batch: 187252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	40.0	40.17		ng/L		100	70 - 130
6:2 FTS	37.9	42.66		ng/L		113	60 - 140
8:2 FTS	38.3	42.33		ng/L		110	70 - 130
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C4 PFHpA	96		50 - 150				
13C4 PFOA	96		50 - 150				
13C5 PFNA	98		50 - 150				
13C4 PFBA	89		50 - 150				
13C2 PFHxA	91		50 - 150				
13C2 PFDA	105		50 - 150				
13C2 PFUnA	89		50 - 150				
18O2 PFHxS	94		50 - 150				
13C2 PFDoA	64		50 - 150				
13C4 PFOS	95		50 - 150				
13C8 FOSA	64		50 - 150				
13C5 PFPeA	85		50 - 150				
13C2 PFTeDA	67		50 - 150				
d3-NMeFOSAA	82		50 - 150				
d5-NEtFOSAA	73		50 - 150				
M2-6:2 FTS	107		50 - 150				
13C3 PFBS	90		50 - 150				
M2-8:2 FTS	98		50 - 150				

Lab Sample ID: LCSD 200-187194/3-A

Matrix: Water

Analysis Batch: 187252

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 187194

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	41.21		ng/L		103	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	40.0	42.10		ng/L		105	70 - 130	4	30
Perfluorohexanoic acid (PFHxA)	40.0	39.83		ng/L		100	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	40.0	43.22		ng/L		108	70 - 130	14	30
Perfluorooctanoic acid (PFOA)	40.0	42.02		ng/L		105	70 - 130	2	30
Perfluorononanoic acid (PFNA)	40.0	40.70		ng/L		102	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	40.0	42.42		ng/L		106	70 - 130	7	30
Perfluoroundecanoic acid (PFUnA)	40.0	41.74		ng/L		104	70 - 130	0	30
Perfluorododecanoic acid (PFDoA)	40.0	38.14		ng/L		95	70 - 130	3	30
Perfluorotridecanoic acid (PFTriA)	40.0	36.47		ng/L		91	70 - 130	0	30
Perfluorotetradecanoic acid (PFTeA)	40.0	37.70		ng/L		94	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	35.4	33.95		ng/L		96	70 - 130	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.85		ng/L		104	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)	38.1	38.14		ng/L		100	70 - 130	2	30

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QC Sample Results

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

Job ID: 460-271908-1

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

Lab Sample ID: LCSD 200-187194/3-A

Matrix: Water

Analysis Batch: 187252

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 187194

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorodecanesulfonic acid (PFDS)	38.6	32.19		ng/L		83	70 - 130	10	30
Perfluorooctanesulfonic acid (PFOS)	37.1	34.96		ng/L		94	70 - 130	1	30
Perfluorooctanesulfonamide (FOSA)	40.0	36.51		ng/L		91	70 - 130	6	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.70		ng/L		109	70 - 130	4	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.05		ng/L		103	70 - 130	2	30
6:2 FTS	37.9	44.40		ng/L		117	60 - 140	4	30
8:2 FTS	38.3	45.23		ng/L		118	70 - 130	7	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFHpA	89		50 - 150
13C4 PFOA	96		50 - 150
13C5 PFNA	99		50 - 150
13C4 PFBA	87		50 - 150
13C2 PFHxA	92		50 - 150
13C2 PFDA	101		50 - 150
13C2 PFUnA	90		50 - 150
18O2 PFHxS	93		50 - 150
13C2 PFDoA	77		50 - 150
13C4 PFOS	98		50 - 150
13C8 FOSA	68		50 - 150
13C5 PFPeA	83		50 - 150
13C2 PFTeDA	73		50 - 150
d3-NMeFOSAA	88		50 - 150
d5-NEtFOSAA	79		50 - 150
M2-6:2 FTS	108		50 - 150
13C3 PFBS	91		50 - 150
M2-8:2 FTS	103		50 - 150

Definitions/Glossary

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

Job ID: 460-271908-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
*	MS or MSD 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: 460-271908-1

LCMS

Prep Batch: 187189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271908-1	BCS-09-64_(12-12.5)P	Total/NA	Solid	SHAKE	
460-271908-2	BCS-09-65_(12-12.5)P	Total/NA	Solid	SHAKE	
460-271908-3	BCS-09-66_(12-12.5)P	Total/NA	Solid	SHAKE	
460-271908-4	BCS-09-67_(12-12.5)P	Total/NA	Solid	SHAKE	
MB 200-187189/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-187189/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-271803-A-3-B MS	Matrix Spike	Total/NA	Solid	SHAKE	
460-271803-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	SHAKE	

Prep Batch: 187194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271908-5	FB-09-12212022P	Total/NA	Water	3535	
MB 200-187194/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-187194/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-187194/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 187252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271908-5	FB-09-12212022P	Total/NA	Water	537 (modified)	187194
MB 200-187194/1-A	Method Blank	Total/NA	Water	537 (modified)	187194
LCS 200-187194/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	187194
LCSD 200-187194/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	187194

Analysis Batch: 187284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271908-1	BCS-09-64_(12-12.5)P	Total/NA	Solid	537 (modified)	187189
460-271908-2	BCS-09-65_(12-12.5)P	Total/NA	Solid	537 (modified)	187189
460-271908-3	BCS-09-66_(12-12.5)P	Total/NA	Solid	537 (modified)	187189
460-271908-4	BCS-09-67_(12-12.5)P	Total/NA	Solid	537 (modified)	187189
MB 200-187189/1-A	Method Blank	Total/NA	Solid	537 (modified)	187189
LCS 200-187189/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	187189
460-271803-A-3-B MS	Matrix Spike	Total/NA	Solid	537 (modified)	187189
460-271803-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	537 (modified)	187189

General Chemistry

Analysis Batch: 187217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271908-1	BCS-09-64_(12-12.5)P	Total/NA	Solid	Moisture	
460-271908-2	BCS-09-65_(12-12.5)P	Total/NA	Solid	Moisture	
460-271908-3	BCS-09-66_(12-12.5)P	Total/NA	Solid	Moisture	
460-271908-4	BCS-09-67_(12-12.5)P	Total/NA	Solid	Moisture	
460-272141-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 460-271908-1

Client Sample ID: BCS-09-64_(12-12.5)P

Date Collected: 12/21/22 13:05

Date Received: 12/21/22 19:00

Lab Sample ID: 460-271908-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187217	RWM	EET BUR	01/03/23 14:19

Client Sample ID: BCS-09-64_(12-12.5)P

Date Collected: 12/21/22 13:05

Date Received: 12/21/22 19:00

Lab Sample ID: 460-271908-1

Matrix: Solid

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187189	KFW	EET BUR	01/03/23 09:24
Total/NA	Analysis	537 (modified)		1	187284	ND	EET BUR	01/05/23 17:49

Client Sample ID: BCS-09-65_(12-12.5)P

Date Collected: 12/21/22 13:15

Date Received: 12/21/22 19:00

Lab Sample ID: 460-271908-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187217	RWM	EET BUR	01/03/23 14:19

Client Sample ID: BCS-09-65_(12-12.5)P

Date Collected: 12/21/22 13:15

Date Received: 12/21/22 19:00

Lab Sample ID: 460-271908-2

Matrix: Solid

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187189	KFW	EET BUR	01/03/23 09:24
Total/NA	Analysis	537 (modified)		1	187284	ND	EET BUR	01/05/23 17:57

Client Sample ID: BCS-09-66_(12-12.5)P

Date Collected: 12/21/22 13:25

Date Received: 12/21/22 19:00

Lab Sample ID: 460-271908-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187217	RWM	EET BUR	01/03/23 14:19

Client Sample ID: BCS-09-66_(12-12.5)P

Date Collected: 12/21/22 13:25

Date Received: 12/21/22 19:00

Lab Sample ID: 460-271908-3

Matrix: Solid

Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187189	KFW	EET BUR	01/03/23 09:24
Total/NA	Analysis	537 (modified)		1	187284	ND	EET BUR	01/05/23 18:05

Client Sample ID: BCS-09-67_(12-12.5)P

Date Collected: 12/21/22 13:35

Date Received: 12/21/22 19:00

Lab Sample ID: 460-271908-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187217	RWM	EET BUR	01/03/23 14:19

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Lab Chronicle

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

Job ID: 460-271908-1

Client Sample ID: BCS-09-67_(12-12.5)P

Lab Sample ID: 460-271908-4

Date Collected: 12/21/22 13:35

Matrix: Solid

Date Received: 12/21/22 19:00

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187189	KFW	EET BUR	01/03/23 09:24
Total/NA	Analysis	537 (modified)		1	187284	ND	EET BUR	01/05/23 18:13

Client Sample ID: FB-09-12212022P

Lab Sample ID: 460-271908-5

Date Collected: 12/21/22 13:45

Matrix: Water

Date Received: 12/21/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			187194	KFW	EET BUR	01/03/23 10:54
Total/NA	Analysis	537 (modified)		1	187252	ND	EET BUR	01/04/23 16:48

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: 460-271908-1

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.: 460-271908-1
 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-09-64_(12-12.5))P	460-271908-1	84	85	87	89	98	92	104	94
BCS-09-65_(12-12.5))P	460-271908-2	75	74	78	86	83	83	91	88
BCS-09-66_(12-12.5))P	460-271908-3	82	80	83	88	89	85	99	94
BCS-09-67_(12-12.5))P	460-271908-4	81	84	82	87	91	84	99	93
	MB 200-187189/1-A	74	75	79	81	86	83	94	85
	LCS 200-187189/2-A	80	79	82	84	88	86	99	87
	460-271803-A-3-B MS	79	79	78	82	83	79	110	87
	460-271803-A-3-C MSD	77	75	78	77	80	77	104	84

	<u>QC LIMITS</u>
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.: 460-271908-1
 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-09-64_(12-12.5))P	460-271908-1	87	100	99	101	79	96	102	95
BCS-09-65_(12-12.5))P	460-271908-2	76	89	89	83	69	78	87	78
BCS-09-66_(12-12.5))P	460-271908-3	79	91	96	91	74	82	84	85
BCS-09-67_(12-12.5))P	460-271908-4	82	95	104	98	81	90	98	89
	MB 200-187189/1-A	78	88	92	87	76	81	90	81
	LCS 200-187189/2-A	86	92	96	96	85	89	91	82
	460-271803-A-3-B MS	74	94	99	189 *	65	128	99	141
	460-271803-A-3-C MSD	73	89	101	171 *	61	120	98	128

	<u>QC LIMITS</u>
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.: 460-271908-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDa #	PFTDA #
BCS-09-64_(12-12.5))P	460-271908-1	98	110
BCS-09-65_(12-12.5))P	460-271908-2	84	85
BCS-09-66_(12-12.5))P	460-271908-3	83	84
BCS-09-67_(12-12.5))P	460-271908-4	89	86
	MB 200-187189/1-A	82	74
	LCS 200-187189/2-A	78	75
	460-271803-A-3-B MS	88	77
	460-271803-A-3-C MSD	83	74

PFDa = 13C2 PFDa
 PFTDA = 13C2 PFTeDA

QC LIMITS
50-150
 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.: 460-271908-1
 SDG No.: _____
 Matrix: Water 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 #
FB-09-12212022P	460-271908-5	84	83	87	91	90	93	105	96
	MB 200-187194/1-A	88	82	86	89	94	91	110	93
	LCS 200-187194/2-A	89	85	90	91	96	94	107	96
	LCSD 200-187194/3-A	87	83	91	92	89	93	108	96

	<u>QC LIMITS</u>
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.: 460-271908-1
 SDG No.: _____
 Matrix: Water 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 #
FB-09-12212022P	460-271908-5	91	99	94	99	49 *	77	81	73
	MB 200-187194/1-A	94	98	99	97	58	75	75	64
	LCS 200-187194/2-A	95	98	105	98	64	82	89	73
	LCSD 200-187194/3-A	98	99	101	103	68	88	90	79

	<u>QC LIMITS</u>
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.: 460-271908-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFD _o A #	PFTDA #
FB-09-12212022P	460-271908-5	74	83
	MB 200-187194/1-A	60	62
	LCS 200-187194/2-A	64	67
	LCSD 200-187194/3-A	77	73

PFD_oA = 13C2 PFD_oA
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.: 460-271908-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230105A12.d
 Lab ID: LCS 200-187189/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.00	1.904	95	60-140	
Perfluoropentanoic acid (PFPeA)	2.00	1.896	95	60-140	
Perfluorohexanoic acid (PFHxA)	2.00	1.935	97	60-140	
Perfluoroheptanoic acid (PFHpA)	2.00	1.869	93	60-140	
Perfluorooctanoic acid (PFOA)	2.00	1.959	98	60-140	
Perfluorononanoic acid (PFNA)	2.00	1.918	96	60-140	
Perfluorodecanoic acid (PFDA)	2.00	1.912	96	60-140	
Perfluoroundecanoic acid (PFUnA)	2.00	1.871	94	60-140	
Perfluorododecanoic acid (PFDoA)	2.00	1.903	95	60-140	
Perfluorotridecanoic acid (PFTriA)	2.00	1.793	90	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.00	1.790	89	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.77	1.658	94	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.703	94	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.823	96	60-140	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.604	83	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.86	1.696	91	60-140	
Perfluorooctanesulfonamide (FOSA)	2.00	1.857	93	60-140	
13C4 PFHpA	2.50	2.203	88	50-150	
13C4 PFOA	2.50	2.184	87	50-150	
13C5 PFNA	2.50	2.289	92	50-150	
13C4 PFBA	2.50	1.996	80	50-150	
13C2 PFHxA	2.50	2.105	84	50-150	
13C2 PFDA	2.50	2.409	96	50-150	
13C2 PFUnA	2.50	2.270	91	50-150	
18O2 PFHxS	2.37	2.025	86	50-150	
13C2 PFDoA	2.50	1.947	78	50-150	
13C4 PFOS	2.39	2.046	86	50-150	
13C8 FOSA	2.50	2.129	85	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.028	101	60-140	
13C5 PFPeA	2.50	1.972	79	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.950 J	97	60-140	

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.: 460-271908-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: PA230105A12.d
Lab ID: LCS 200-187189/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	2.50	1.874	75	50-150	
d3-NMeFOSAA	2.50	2.214	89	50-150	
6:2 FTS	1.90	1.983 J	105	50-150	
d5-NEtFOSAA	2.50	2.056	82	50-150	
8:2 FTS	1.92	2.062	108	60-140	
M2-6:2 FTS	2.38	2.341	99	50-150	
13C3 PFBS	2.33	1.909	82	50-150	
M2-8:2 FTS	2.40	2.295	96	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.: 460-271908-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA230104A09.d
 Lab ID: LCS 200-187194/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	40.98	102	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	40.60	102	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	39.44	99	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	37.70	94	70-130	
Perfluorooctanoic acid (PFOA)	40.0	41.15	103	70-130	
Perfluorononanoic acid (PFNA)	40.0	40.90	102	70-130	
Perfluorodecanoic acid (PFDA)	40.0	39.48	99	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	41.54	104	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	39.26	98	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	36.39	91	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	36.20	90	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	35.18	99	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.69	101	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	38.77	102	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	29.20	76	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	34.53	93	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	34.56	86	70-130	
13C4 PFHpA	50.0	48.21	96	50-150	
13C4 PFOA	50.0	48.20	96	50-150	
13C5 PFNA	50.0	49.02	98	50-150	
13C4 PFBA	50.0	44.40	89	50-150	
13C2 PFHxA	50.0	45.52	91	50-150	
13C2 PFDA	50.0	52.71	105	50-150	
13C2 PFUnA	50.0	44.56	89	50-150	
18O2 PFHxS	47.3	44.56	94	50-150	
13C2 PFDoA	50.0	32.10	64	50-150	
13C4 PFOS	47.8	45.53	95	50-150	
13C8 FOSA	50.0	32.13	64	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.17	105	70-130	
13C5 PFPeA	50.0	42.49	85	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.17	100	70-130	

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.: 460-271908-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: PA230104A09.d
Lab ID: LCS 200-187194/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	50.0	33.68	67	50-150	
d3-NMeFOSAA	50.0	41.14	82	50-150	
6:2 FTS	37.9	42.66	113	60-140	
d5-NEtFOSAA	50.0	36.32	73	50-150	
8:2 FTS	38.3	42.33	110	70-130	
M2-6:2 FTS	47.5	50.65	107	50-150	
13C3 PFBS	46.5	41.65	90	50-150	
M2-8:2 FTS	47.9	46.90	98	50-150	

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

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA230104A10.d
 Lab ID: LCSD 200-187194/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	40.0	41.21	103	1	30	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	42.10	105	4	30	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	39.83	100	1	30	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	43.22	108	14	30	70-130	
Perfluorooctanoic acid (PFOA)	40.0	42.02	105	2	30	70-130	
Perfluorononanoic acid (PFNA)	40.0	40.70	102	0	30	70-130	
Perfluorodecanoic acid (PFDA)	40.0	42.42	106	7	30	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	41.74	104	0	30	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	38.14	95	3	30	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	36.47	91	0	30	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.70	94	4	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	33.95	96	4	30	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.85	104	3	30	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	38.14	100	2	30	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	32.19	83	10	30	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	34.96	94	1	30	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	36.51	91	6	30	70-130	
13C4 PFHpA	50.0	44.67	89			50-150	
13C4 PFOA	50.0	47.77	96			50-150	
13C5 PFNA	50.0	49.48	99			50-150	
13C4 PFBA	50.0	43.70	87			50-150	
13C2 PFHxA	50.0	46.18	92			50-150	
13C2 PFDA	50.0	50.31	101			50-150	
13C2 PFUnA	50.0	44.96	90			50-150	
18O2 PFHxS	47.3	44.00	93			50-150	
13C2 PFDoA	50.0	38.59	77			50-150	
13C4 PFOS	47.8	46.85	98			50-150	
13C8 FOSA	50.0	34.00	68			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.70	109	4	30	70-130	
13C5 PFPeA	50.0	41.60	83			50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.05	103	2	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA230104A10.d
 Lab ID: LCSD 200-187194/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	50.0	36.57	73			50-150	
d3-NMeFOSAA	50.0	43.80	88			50-150	
6:2 FTS	37.9	44.40	117	4	30	60-140	
d5-NEtFOSAA	50.0	39.65	79			50-150	
8:2 FTS	38.3	45.23	118	7	30	70-130	
M2-6:2 FTS	47.5	51.06	108			50-150	
13C3 PFBS	46.5	42.20	91			50-150	
M2-8:2 FTS	47.9	49.18	103			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.: 460-271908-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: PA230105A17.d
Lab ID: 460-271803-A-3-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	4.93	1.28 U	4.603	93	60-140	
Perfluoropentanoic acid (PFPeA)	4.93	0.51 U	4.918	100	60-140	
Perfluorohexanoic acid (PFHxA)	4.93	0.37 J	5.010	94	60-140	
Perfluoroheptanoic acid (PFHpA)	4.93	0.51 U	4.512	91	60-140	
Perfluorooctanoic acid (PFOA)	4.93	0.37 J	5.180	98	60-140	
Perfluorononanoic acid (PFNA)	4.93	0.51 U	4.723	96	60-140	
Perfluorodecanoic acid (PFDA)	4.93	0.12 J	4.875	96	60-140	
Perfluoroundecanoic acid (PFUnA)	4.93	0.25 J	5.121	99	60-140	
Perfluorododecanoic acid (PFDoA)	4.93	0.37 J	5.101	96	60-140	
Perfluorotridecanoic acid (PFTriA)	4.93	0.29 J	4.309	81	60-140	
Perfluorotetradecanoic acid (PFTeA)	4.93	0.32 J	4.707	89	60-140	
Perfluorobutanesulfonic acid (PFBS)	4.36	0.16 J	4.336	96	60-140	
Perfluorohexanesulfonic acid (PFHxS)	4.49	1.99	6.272	95	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	4.69	0.27 J	5.183	105	60-140	
Perfluorodecanesulfonic acid (PFDS)	4.75	0.097 J	4.653	96	60-140	
Perfluorooctanesulfonic acid (PFOS)	4.58	15.8	22.66	150	60-140	*
Perfluorooctanesulfonamide (FOSA)	4.93	0.13 J	4.852	96	60-140	
13C4 PFHpA	6.16	5.56	5.132	83	50-150	
13C4 PFOA	6.16	5.45	5.360	87	50-150	
13C5 PFNA	6.16	5.79	5.798	94	50-150	
13C4 PFBA	6.16	5.04	4.871	79	50-150	
13C2 PFHxA	6.16	5.06	5.043	82	50-150	
13C2 PFDA	6.16	6.12	6.077	99	50-150	
13C2 PFUnA	6.16	6.14	6.127	99	50-150	
18O2 PFHxS	5.83	4.87	4.620	79	50-150	
13C2 PFDoA	6.16	5.66	5.411	88	50-150	
13C4 PFOS	5.89	4.88	4.387	74	50-150	
13C8 FOSA	6.16	4.02	4.011	65	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.93	5.12 U	5.061	103	60-140	
13C5 PFPeA	6.16	5.15	4.849	79	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.93	1.01 J	5.771	97	60-140	

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.: 460-271908-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230105A17.d
 Lab ID: 460-271803-A-3-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C2 PFTeDA	6.16	5.19	4.762	77	50-150	
d3-NMeFOSAA	6.16	6.89	7.863	128	50-150	
6:2 FTS	4.67	5.12 U	5.035	108	50-150	
d5-NEtFOSAA	6.16	7.65	8.690	141	50-150	
8:2 FTS	4.72	5.12 U	5.221	111	60-140	
M2-6:2 FTS	5.86	6.15	6.421	110	50-150	
13C3 PFBS	5.73	4.71	4.481	78	50-150	
M2-8:2 FTS	5.91	8.60	11.14	189	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.: 460-271908-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230105A18.d
 Lab ID: 460-271803-A-3-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	4.88	4.722	97	3	30	60-140	
Perfluoropentanoic acid (PFPeA)	4.88	4.844	99	2	30	60-140	
Perfluorohexanoic acid (PFHxA)	4.88	4.933	94	2	30	60-140	
Perfluoroheptanoic acid (PFHpA)	4.88	4.755	98	5	30	60-140	
Perfluorooctanoic acid (PFOA)	4.88	4.916	93	5	30	60-140	
Perfluorononanoic acid (PFNA)	4.88	4.773	98	1	30	60-140	
Perfluorodecanoic acid (PFDA)	4.88	4.575	91	6	30	60-140	
Perfluoroundecanoic acid (PFUnA)	4.88	5.029	98	2	30	60-140	
Perfluorododecanoic acid (PFDoA)	4.88	5.020	95	2	30	60-140	
Perfluorotridecanoic acid (PFTrIA)	4.88	4.409	84	2	30	60-140	
Perfluorotetradecanoic acid (PFTeA)	4.88	4.614	88	2	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	4.31	4.186	93	4	30	60-140	
Perfluorohexanesulfonic acid (PFHxS)	4.44	5.998	90	4	30	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	4.64	5.101	104	2	30	60-140	
Perfluorodecanesulfonic acid (PFDS)	4.70	4.446	93	5	30	60-140	
Perfluorooctanesulfonic acid (PFOS)	4.52	18.58	62	20	30	60-140	
Perfluorooctanesulfonamide (FOSA)	4.88	4.760	95	2	30	60-140	
13C4 PFHpA	6.09	4.893	80			50-150	
13C4 PFOA	6.09	5.130	84			50-150	
13C5 PFNA	6.09	5.435	89			50-150	
13C4 PFBA	6.09	4.685	77			50-150	
13C2 PFHxA	6.09	4.688	77			50-150	
13C2 PFDA	6.09	6.126	101			50-150	
13C2 PFUnA	6.09	5.987	98			50-150	
18O2 PFHxS	5.76	4.456	77			50-150	
13C2 PFDoA	6.09	5.086	83			50-150	
13C4 PFOS	5.83	4.234	73			50-150	
13C8 FOSA	6.09	3.700	61			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.88	5.199	107	3	30	60-140	
13C5 PFPeA	6.09	4.585	75			50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.88	5.666	96	2	30	60-140	

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.: 460-271908-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230105A18.d
 Lab ID: 460-271803-A-3-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	6.09	4.529	74			50-150	
d3-NMeFOSAA	6.09	7.285	120			50-150	
6:2 FTS	4.62	5.120	111	2	30	50-150	
d5-NEtFOSAA	6.09	7.784	128			50-150	
8:2 FTS	4.67	5.244	112	0	30	60-140	
M2-6:2 FTS	5.79	6.050	104			50-150	
13C3 PFBS	5.67	4.416	78			50-150	
M2-8:2 FTS	5.84	9.972	171			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.: 460-271908-1
 SDG No.: _____
 Lab File ID: PA230105A11.d Lab Sample ID: MB 200-187189/1-A
 Matrix: Solid Date Extracted: 01/03/2023 09:24
 Instrument ID: LC812 Date Analyzed: 01/05/2023 16:11
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-187189/2-A	PA230105A12 .d	01/05/2023 16:19
	460-271803-A-3-B MS	PA230105A17 .d	01/05/2023 17:00
	460-271803-A-3-C MSD	PA230105A18 .d	01/05/2023 17:08
BCS-09-64_(12-12.5) P	460-271908-1	PA230105A23 .d	01/05/2023 17:49
BCS-09-65_(12-12.5) P	460-271908-2	PA230105A24 .d	01/05/2023 17:57
BCS-09-66_(12-12.5) P	460-271908-3	PA230105A25 .d	01/05/2023 18:05
BCS-09-67_(12-12.5) P	460-271908-4	PA230105A26 .d	01/05/2023 18:13

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-271908-1
SDG No.: _____
Lab File ID: PA230104A08.d Lab Sample ID: MB 200-187194/1-A
Matrix: Water Date Extracted: 01/03/2023 10:54
Instrument ID: LC812 Date Analyzed: 01/04/2023 15:42
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-187194/2-A	PA230104A09 .d	01/04/2023 15:50
	LCSD 200-187194/3-A	PA230104A10 .d	01/04/2023 15:59
FB-09-12212022P	460-271908-5	PA230104A16 .d	01/04/2023 16:48

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Instrument I LC812 Calibration Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.6 (mm) Calibration End Date: 11/18/2022 15:10
 Calibration ID: 49456

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		2300897	3.45				
UPPER LIMIT		3451346	3.65				
LOWER LIMIT		1150449	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-185958/11		2270634	3.45				
ICV 200-185958/12		2902090	3.45				
CCB 200-187252/4		2718743	3.42				
CCVLIS 200-187252/5		2763150	3.45				
CCB 200-187284/4		2876693	3.46				
CCVLIS 200-187284/5		2788960	3.45				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 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.: 460-271908-1
 SDG No.: _____
 Sample No.: CCVLIS 200-187252/5 Date Analyzed: 01/04/2023 15:18
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA230104A05.d Heated Purge: (Y/N) N
 Calibration ID: 49456

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		2763150	3.45				
UPPER LIMIT		4144725	3.65				
LOWER LIMIT		1381575	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-187252/7		2714135	3.44				
MB 200-187194/1-A		2854572	3.44				
LCS 200-187194/2-A		2710199	3.44				
LCS 200-187194/3-A		2711362	3.43				
460-271908-5	FB-09-12212022P	2881050	3.44				
CCV 200-187252/21		2649443	3.45				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 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.: 460-271908-1
 SDG No.: _____
 Sample No.: CCVLIS 200-187284/5 Date Analyzed: 01/05/2023 15:22
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA230105A05.d Heated Purge: (Y/N) N
 Calibration ID: 49456

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		2788960	3.45				
UPPER LIMIT		4183440	3.65				
LOWER LIMIT		1394480	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-187284/10		2923409	3.45				
MB 200-187189/1-A		3122076	3.45				
LCS 200-187189/2-A		2881967	3.44				
460-271803-A-3-B MS		2809098	3.45				
460-271803-A-3-C MSD		2863390	3.44				
CCV 200-187284/22		2795498	3.44				
460-271908-1	BCS-09-64_ (12-12.5) P	2932604	3.44				
460-271908-2	BCS-09-65_ (12-12.5) P	3103617	3.44				
460-271908-3	BCS-09-66_ (12-12.5) P	2982315	3.44				
460-271908-4	BCS-09-67_ (12-12.5) P	2934345	3.44				
CCV 200-187284/32		2863612	3.45				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 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.: 460-271908-1
SDG No.: _____
Client Sample ID: BCS-09-64_(12-12.5)P Lab Sample ID: 460-271908-1
Matrix: Solid Lab File ID: PA230105A23.d
Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:05
Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24
Sample wt/vol: 5.08(g) Date Analyzed: 01/05/2023 17:49
Con. Extract Vol.: 10(mL) Dilution Factor: 1
Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
% Moisture: 28.0 % Solids: 72.0 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.68	U	0.68	0.45
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.075
307-24-4	Perfluorohexanoic acid (PFHxA)	0.065	J	0.27	0.063
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053
335-67-1	Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.079
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046
335-76-2	Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.037
307-55-1	Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.036
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.045
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.056
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.73	U	2.73	0.15
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.73	U	2.73	0.11
27619-97-2	6:2 FTS	2.73	U	2.73	0.078
39108-34-4	8:2 FTS	2.73	U	2.73	0.051

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: BCS-09-64_(12-12.5)P Lab Sample ID: 460-271908-1
 Matrix: Solid Lab File ID: PA230105A23.d
 Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:05
 Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24
 Sample wt/vol: 5.08(g) Date Analyzed: 01/05/2023 17:49
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 28.0 % Solids: 72.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	92		50-150
STL01892	13C4 PFHpA	98		50-150
STL00990	13C4 PFOA	94		50-150
STL00991	13C4 PFOS	87		50-150
STL00995	13C5 PFNA	100		50-150
STL00992	13C4 PFBA	84		50-150
STL00993	13C2 PFHxA	89		50-150
STL00996	13C2 PFDA	99		50-150
STL00997	13C2 PFUnA	102		50-150
STL00998	13C2 PFDoA	98		50-150
STL01056	13C8 FOSA	79		50-150
STL01893	13C5 PFPeA	85		50-150
STL02116	13C2 PFTeDA	110		50-150
STL02118	d3-NMeFOSAA	96		50-150
STL02117	d5-NEtFOSAA	95		50-150
STL02279	M2-6:2 FTS	104		50-150
STL02280	M2-8:2 FTS	101		50-150
STL02337	13C3 PFBS	87		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
 Lims ID: 460-271908-A-1-A
 Client ID: BCS-09-64_(12-12.5)P
 Sample Type: Client
 Inject. Date: 05-Jan-2023 17:49:20 ALS Bottle#: 20 Worklist Smp#: 23
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271908-A-1-A
 Misc. Info.: 200-0053906-023 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:19:30 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 14:05:27

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										M
217.00 > 172.00	2.094	2.076	0.018	0.609	2750213	1.05		83.6	6248	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.076	0.018	1.000	92740	0.0409			7.0	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.694	2128010	1.06		84.9	2756	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	42426	0.0229			0.9	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.698	2213499	1.02		87.4	165139	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	5151	0.002365	Target=2.09		3.6	M
298.90 > 99.00	2.400	2.400	0.0	1.000	2505		2.06(1.04-3.13)		0.8	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.793	2333433	1.11		88.9	4446	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	48592	0.0239	Target=14.25		5.9	M
313.00 > 119.00	2.713	2.725	-0.012	0.996	4631		10.49(7.12-21.37)		6.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.077	3.088	-0.011	0.895	1722603	1.09		91.8	4732	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.077	3.088	-0.011	1.000	8340	0.005072	Target=3.66		11.0	M
399.00 > 99.00	3.077	3.088	-0.011	1.000	2961		2.82(1.83-5.49)		3.7	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.898	2651961	1.23		98.2	4816	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.088	3.099	-0.011	1.000	18313	0.007928	Target=3.97		2.8	M
363.00 > 169.00	3.088	3.099	-0.011	1.000	5142		3.56(1.98-5.95)		6.9	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	3.422	3.439	-0.017	0.995	328367	1.23		104	549	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.003	1908	-0.008606			2.6	
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.448	-0.009	1.000	2851274	1.17		93.9	4001	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.448	-0.009		2932604	1.25			10771	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.439	3.448	-0.009	1.000	45389	0.0186	Target=2.79		3.1	M
413.00 > 169.00	3.439	3.448	-0.009	1.000	15591		2.91(1.40-4.19)		15.2	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.092	1116703	1.04		86.8	2016	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.764	0.0	1.003	8295	0.007299	Target=5.11		4.1	RM
499.00 > 99.00	3.607	3.764	-0.157	0.961	3568		2.32(2.55-7.66)		5.5	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.783	-0.010	1.000	4270	0.001736	Target=8.55		0.8	M
463.00 > 169.00	3.773	3.783	-0.010	1.000	567		7.53(4.28-12.83)		3.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.097	2963360	1.26		100	10324	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	2978582	1.24		99.1	3654	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.071	4.081	-0.010	1.000	4301	0.001664	Target=10.26		1.4	M
513.00 > 169.00	4.071	4.081	-0.010	1.000	520		8.27(5.13-15.38)		1.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	392773	1.21		101	960	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.003	3244	0.002000			5.1	M
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.150	-0.011	1.203	1941098	0.9846		78.8	1602	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.218	4.228	-0.010	1.226	585769	1.20		95.7	1364	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.218	4.228	-0.010	1.000	2134	-0.006333			7.8	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.353	-0.010	1.263	2811040	1.28		102	3961	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.353	-0.010	1.000	3387	0.001494	Target=9.88		1.4	RM
563.00 > 169.00	4.343	4.353	-0.010	1.000	169		20.04(4.94-14.82)		1.6	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.366	4.365	0.001	1.003	3159	0.007677			15.3	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.354	4.365	-0.011	1.266	574552	1.19		95.3	1169	
D 36 13C2 PFDaA										
615.00 > 570.00	4.581	4.591	-0.010	1.332	2747672	1.22		98.0	4178	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.794	4.804	-0.010	1.047	3244	0.001457	Target=5.21		0.3	M
663.00 > 169.00	4.785	4.804	-0.019	1.045	891		3.64(2.60-7.81)		6.3	M
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.992	5.012	-0.020	1.000	440	0.001512	Target=0.89		4.4	RM
713.00 > 219.00	4.982	5.012	-0.030	0.998	1038		0.42(0.44-1.33)		10.1	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.992	5.012	-0.020	1.451	2657925	1.37		110	7370	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d

Injection Date: 05-Jan-2023 17:49:20

Instrument ID: LC812

Lims ID: 460-271908-A-1-A

Lab Sample ID: 200-271908-1

Client ID: BCS-09-64_(12-12.5)P

Operator ID: lc812tech

ALS Bottle#: 20

Worklist Smp#: 23

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

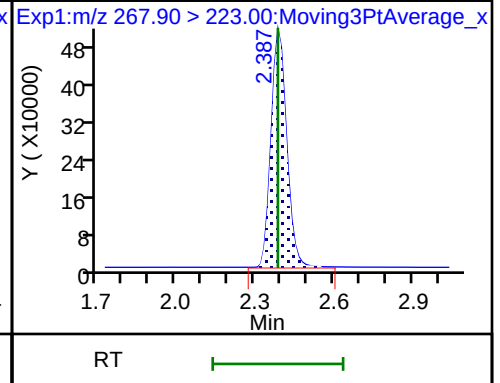
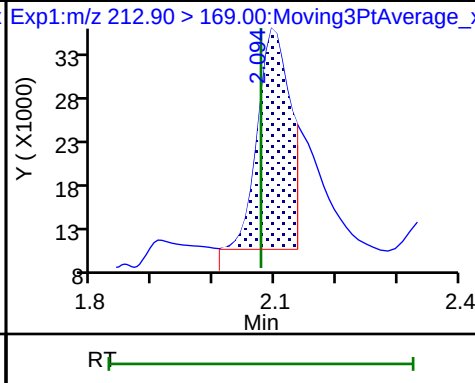
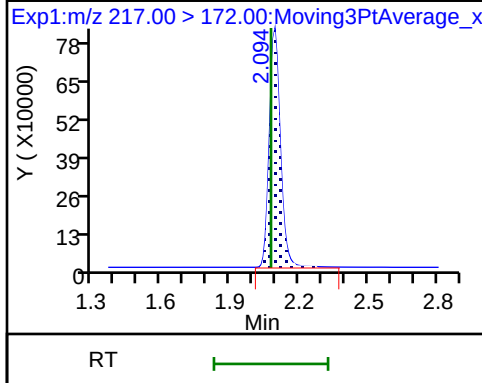
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

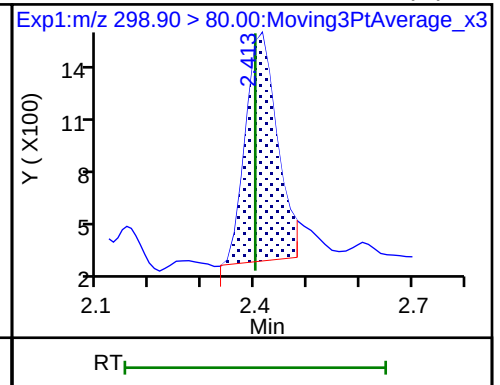
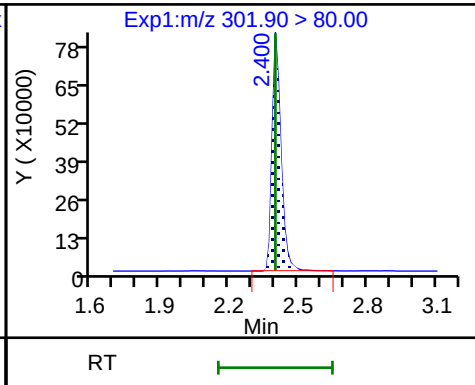
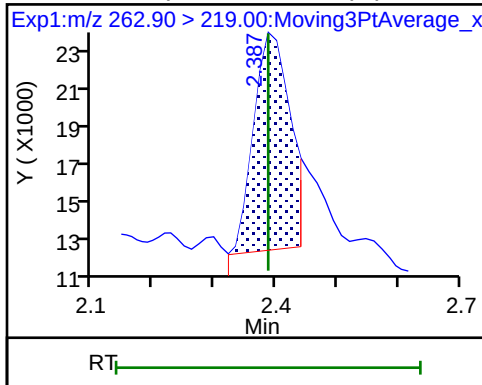
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

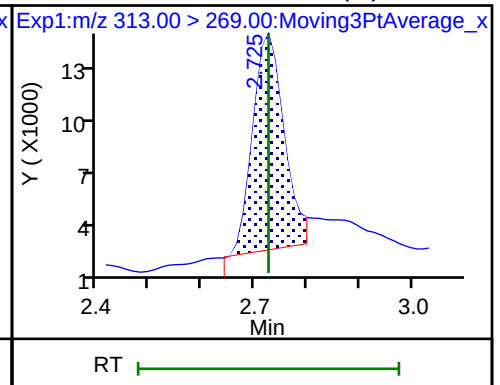
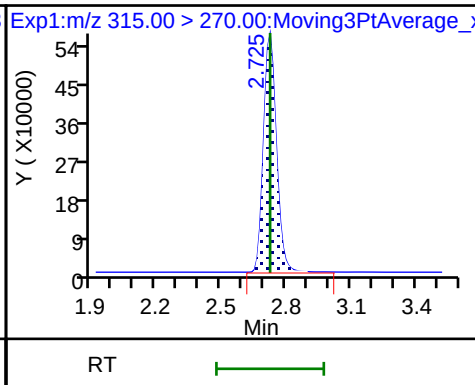
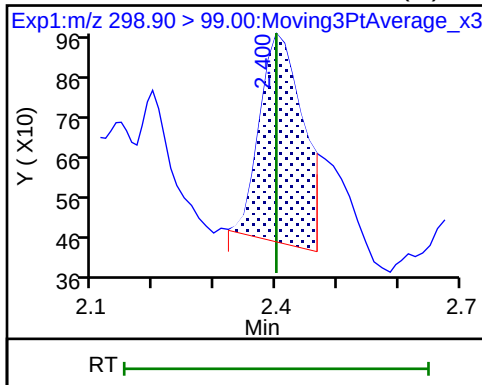
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

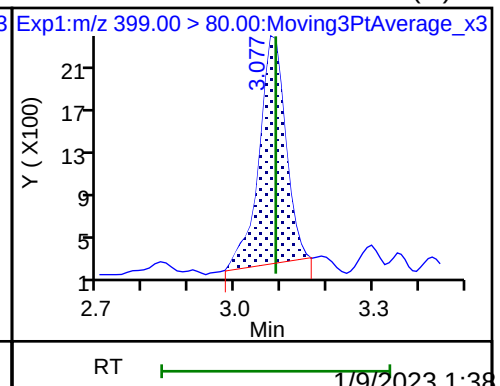
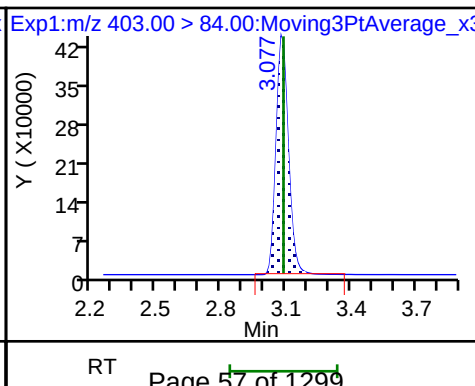
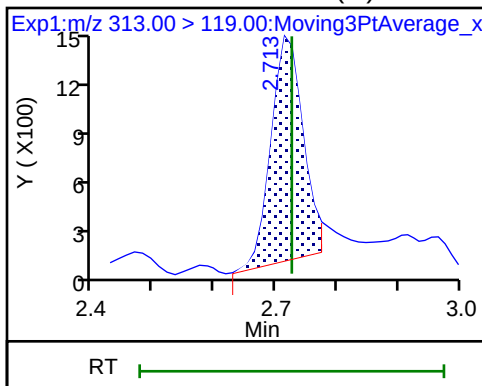
6 Perfluorohexanoic acid (M)

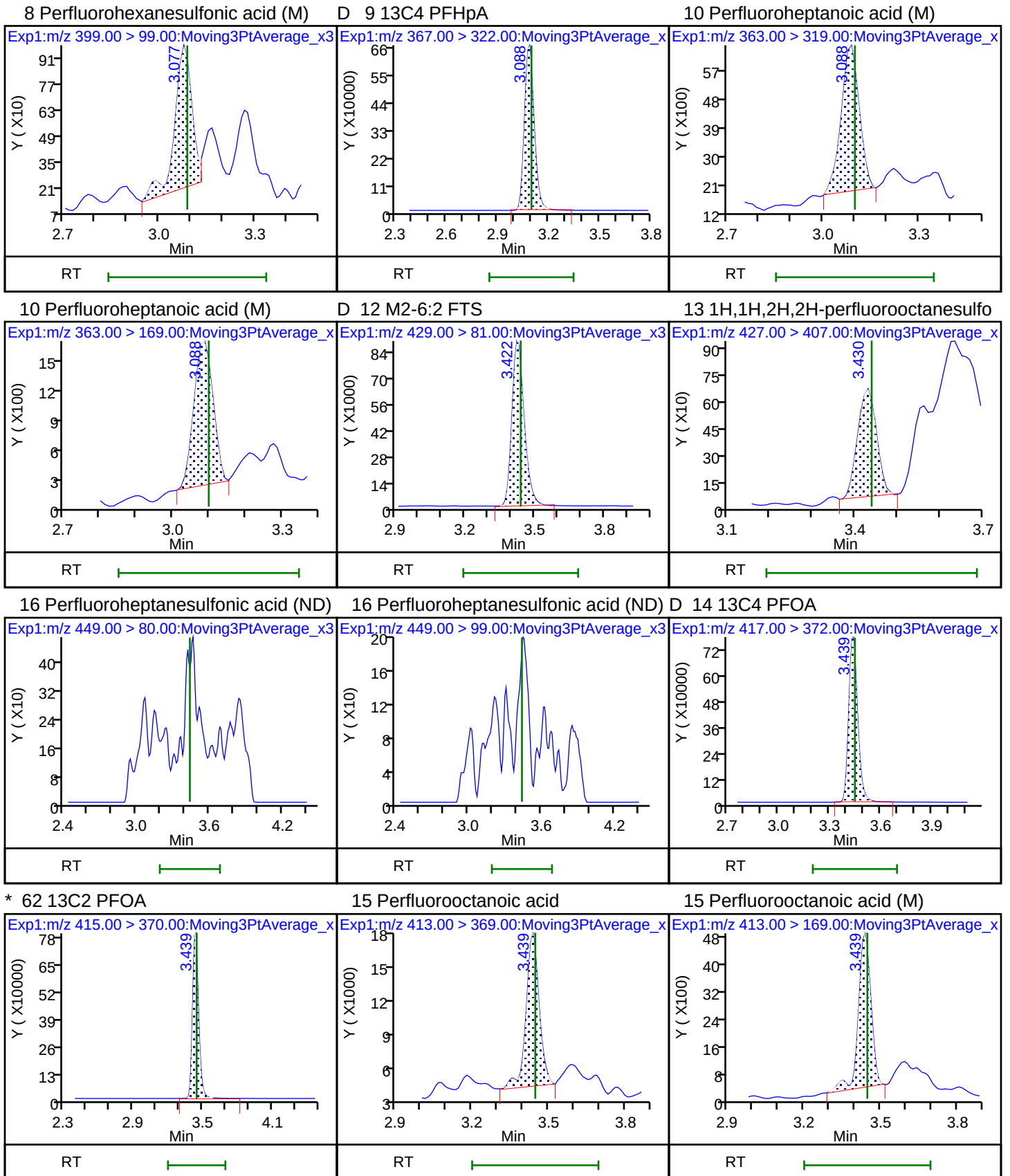


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

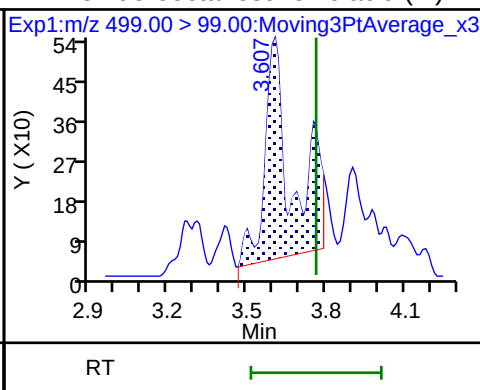
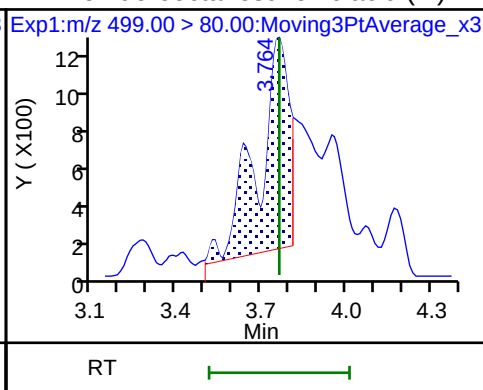
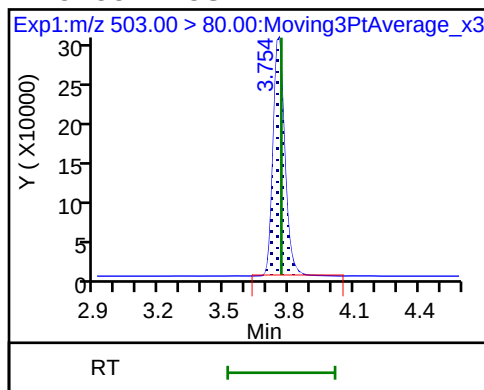




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

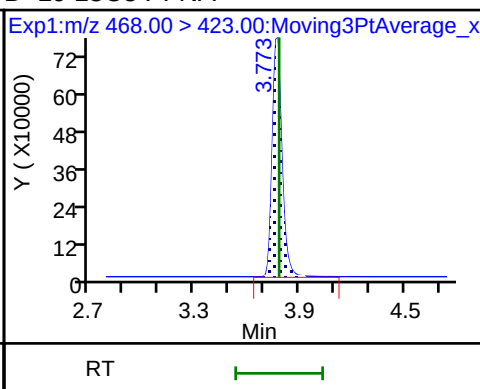
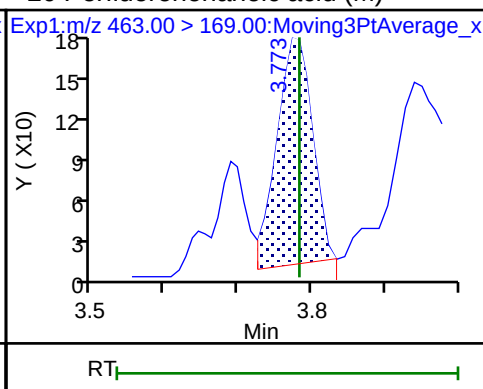
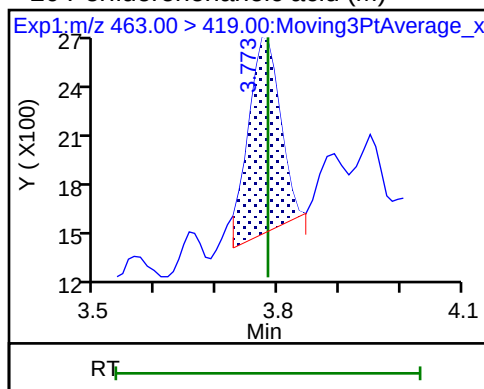
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

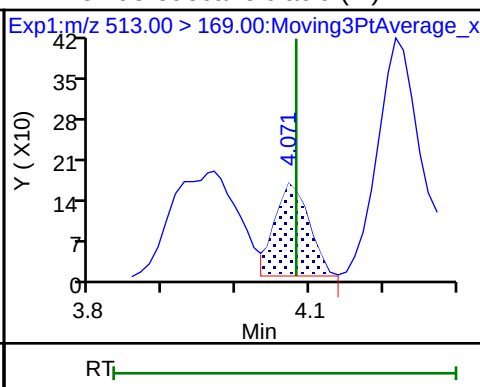
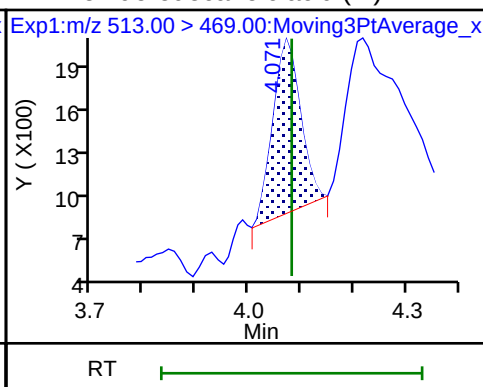
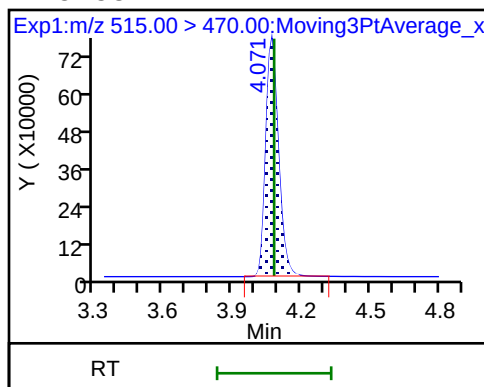
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

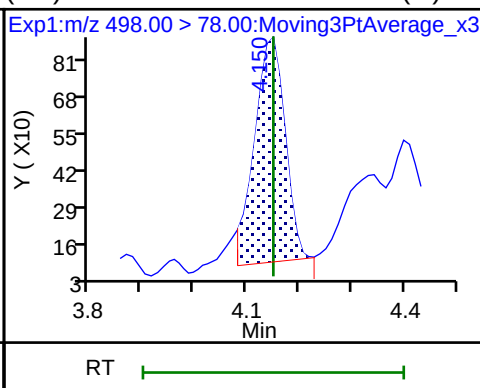
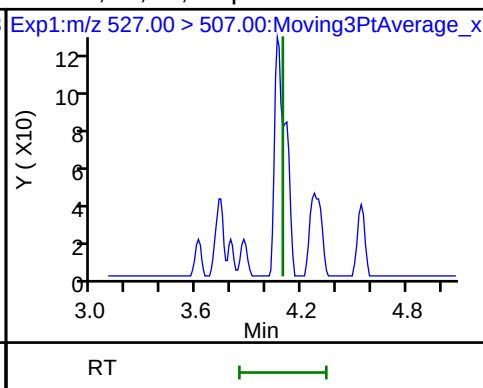
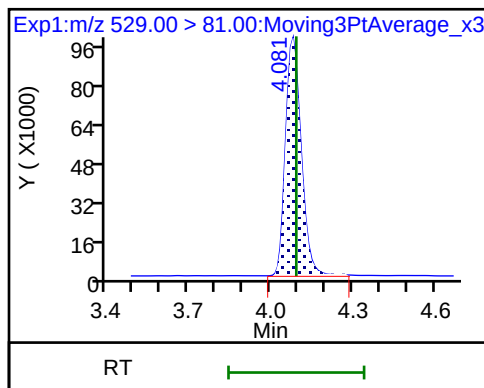
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

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

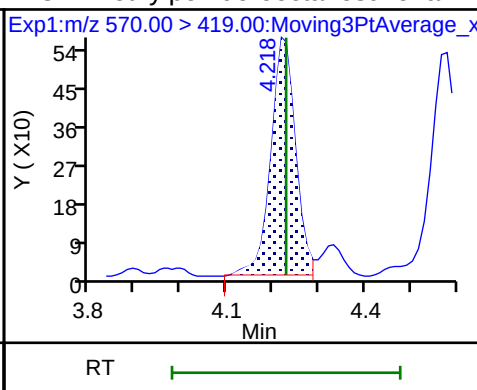
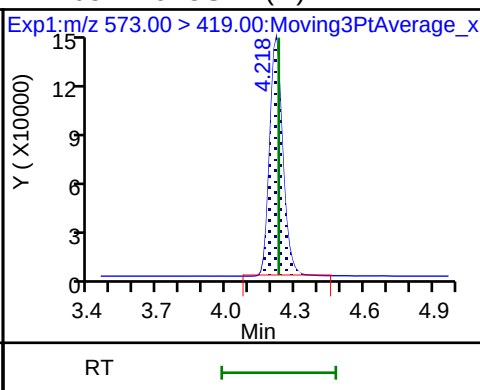
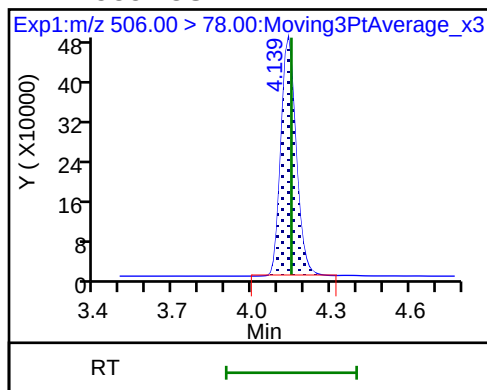
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA (M)

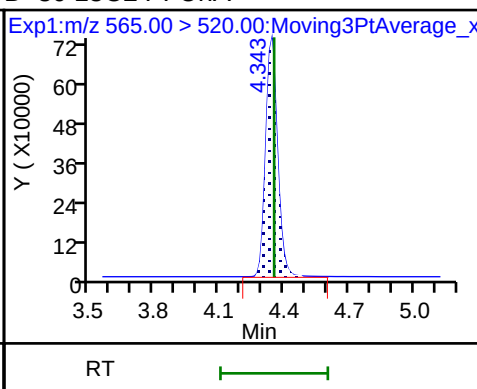
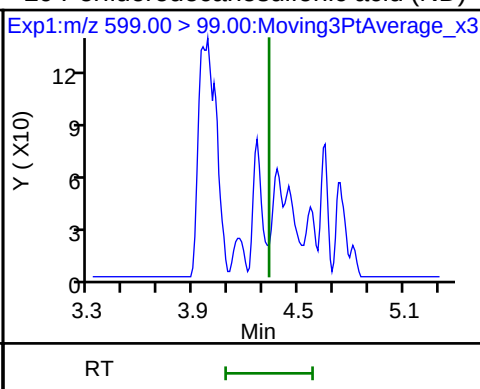
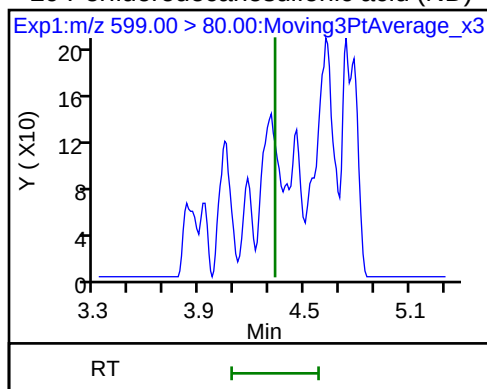
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

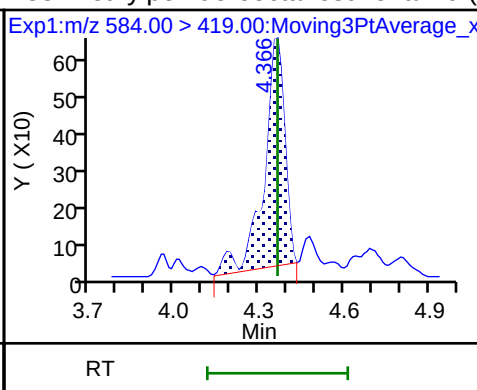
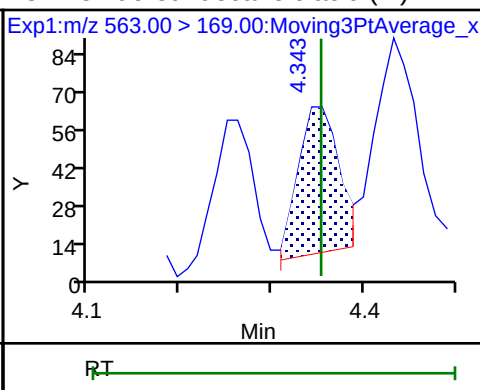
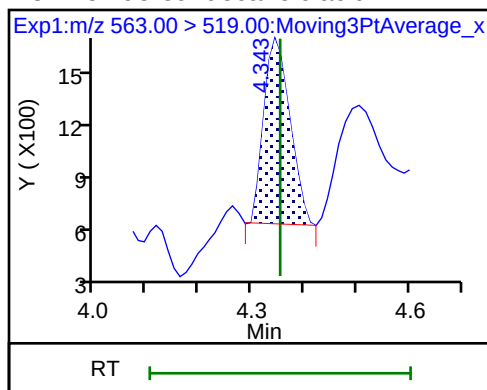
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

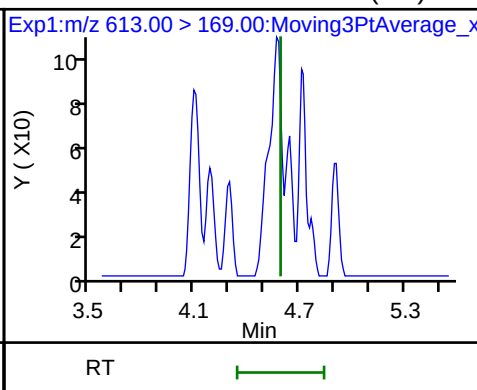
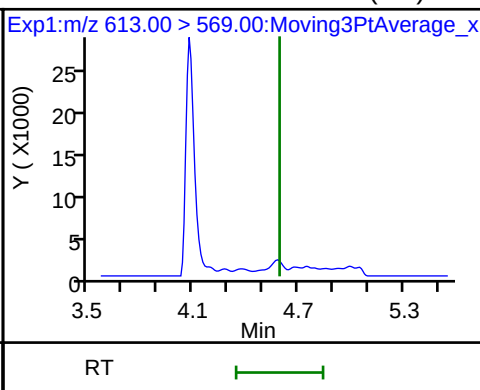
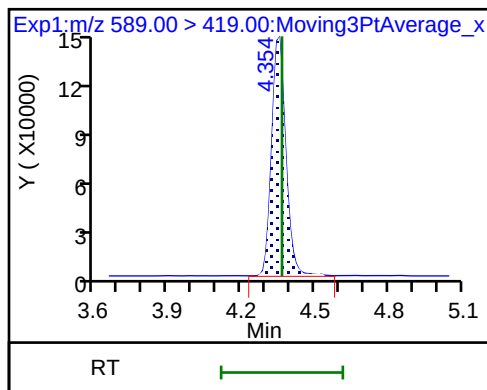
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

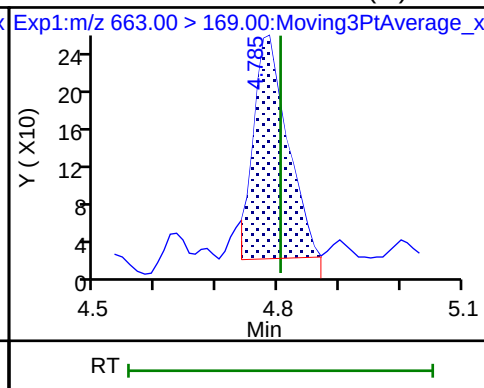
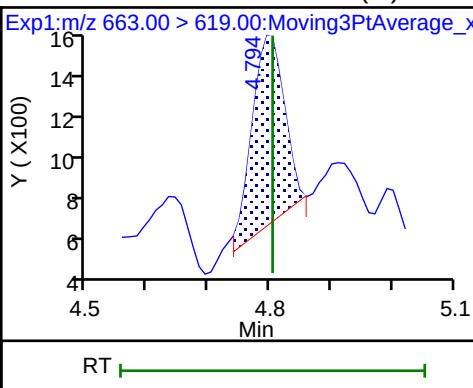
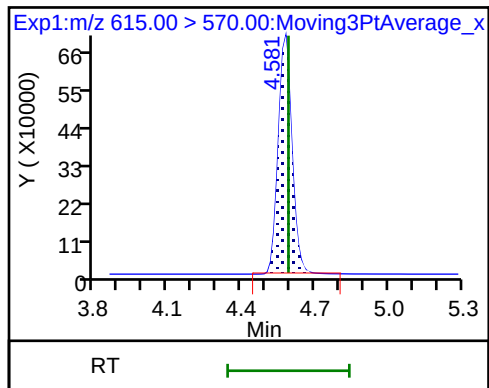
37 Perfluorododecanoic acid (ND)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

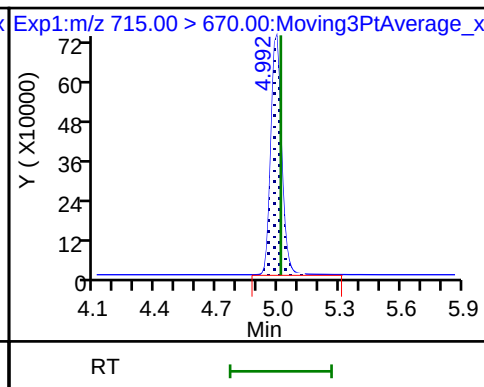
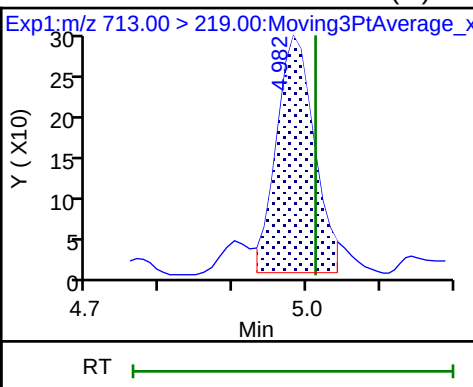
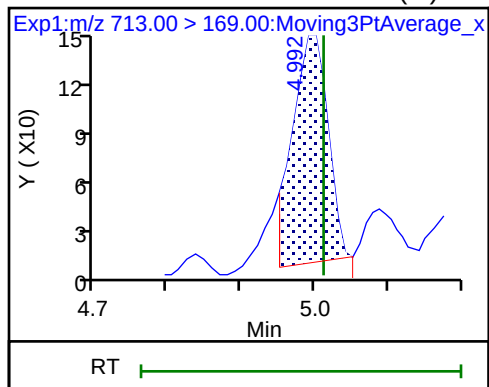
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

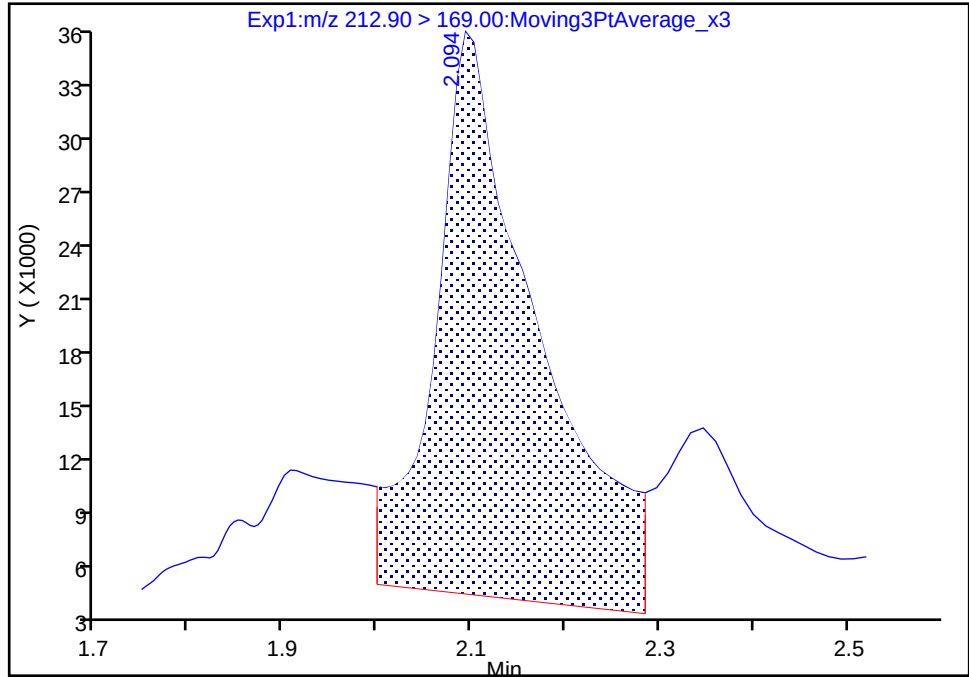
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Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

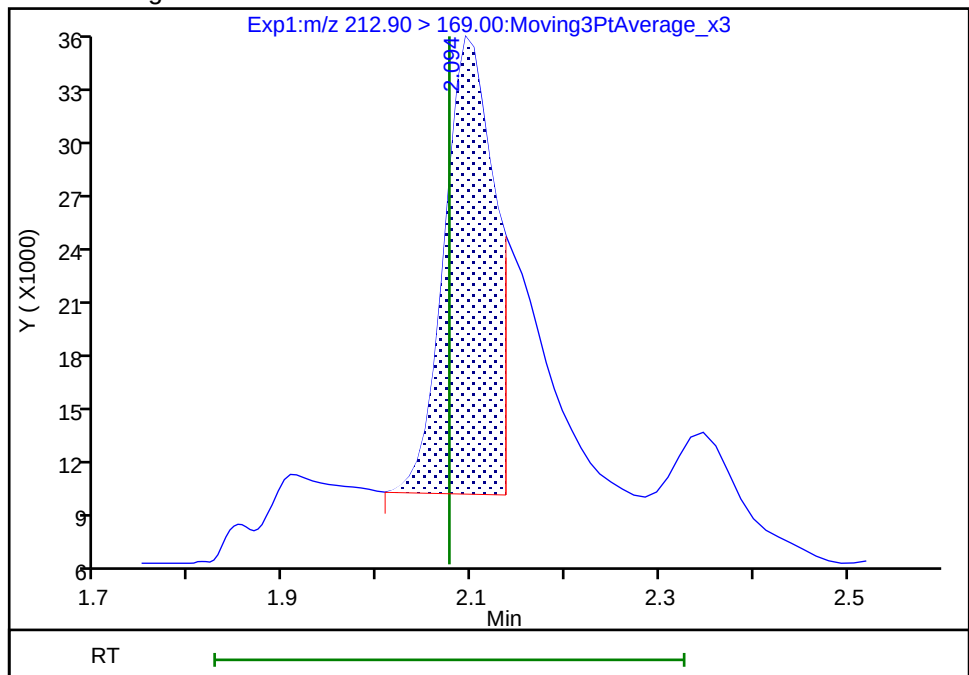
RT: 2.09
Area: 240514
Amount: 0.106009
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 92740
Amount: 0.040876
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

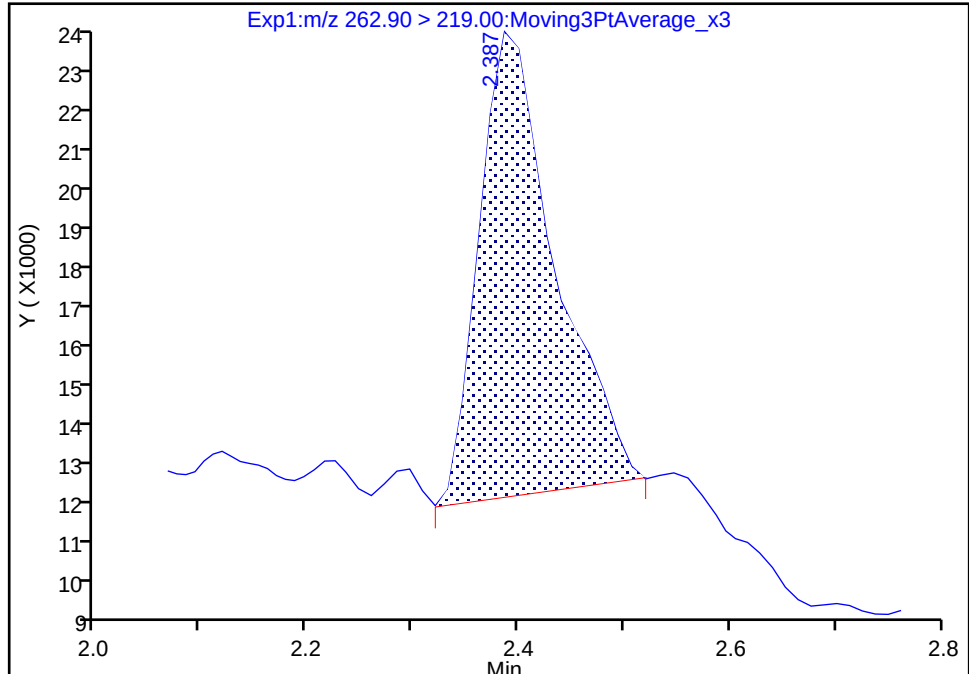
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul 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

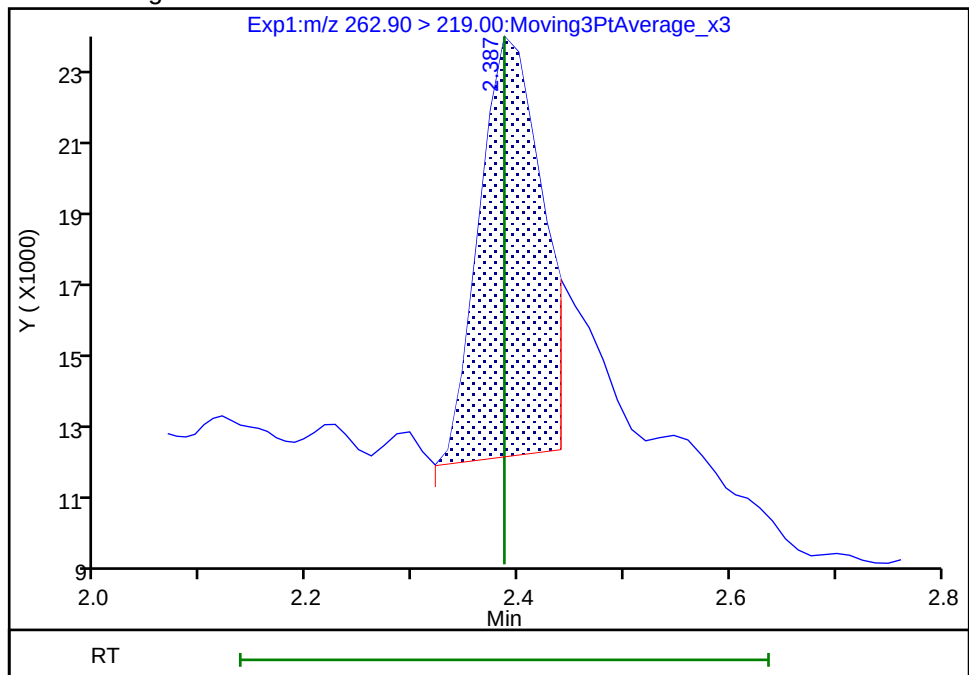
RT: 2.39
Area: 52249
Amount: 0.028162
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 42426
Amount: 0.022867
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

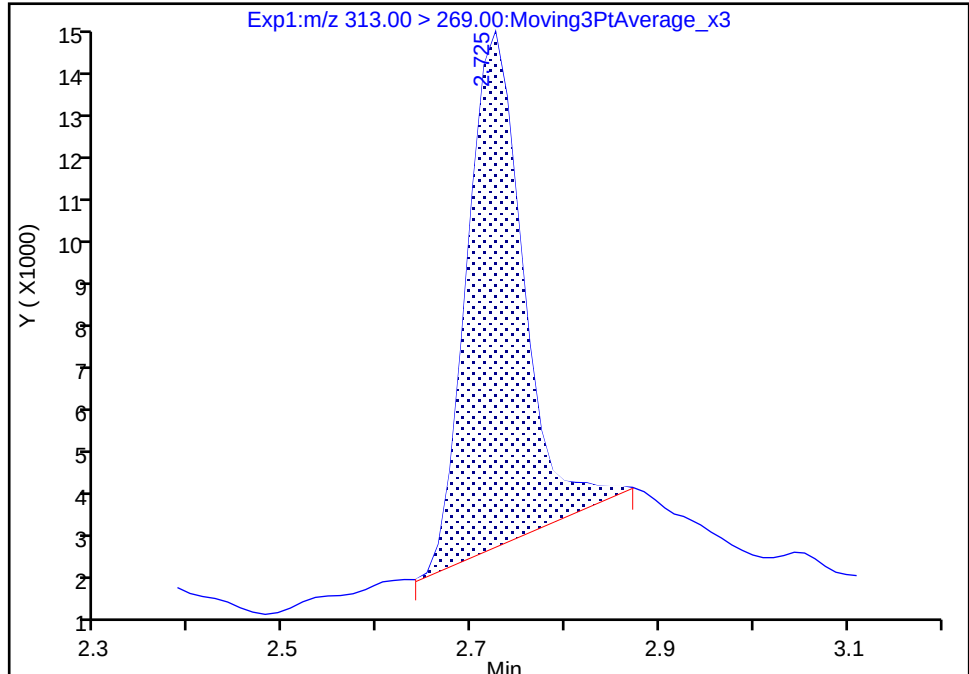
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Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

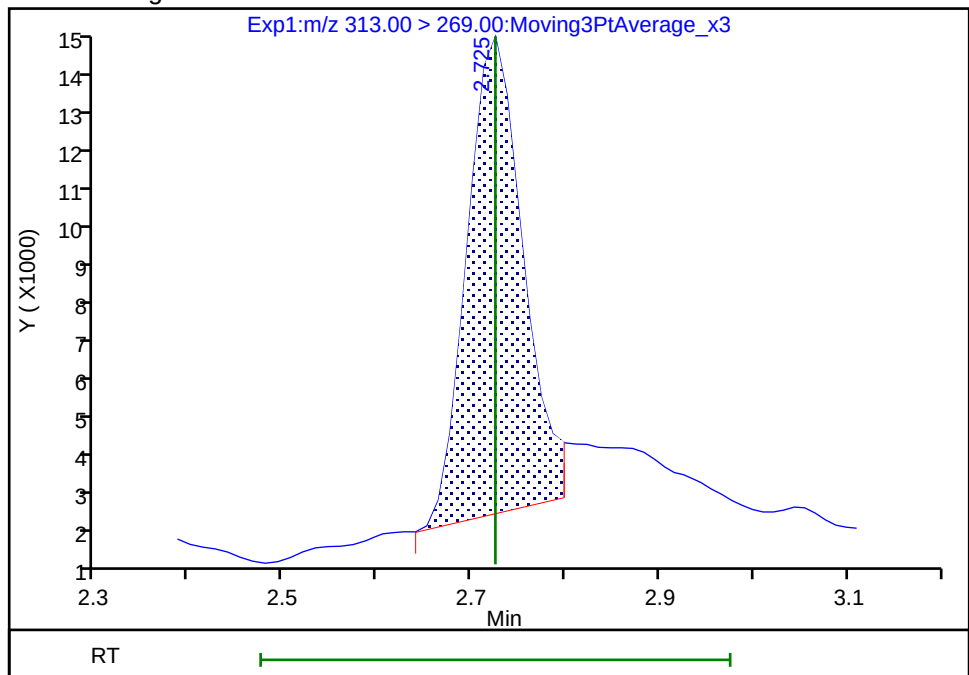
RT: 2.73
Area: 47949
Amount: 0.023573
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 48592
Amount: 0.023890
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

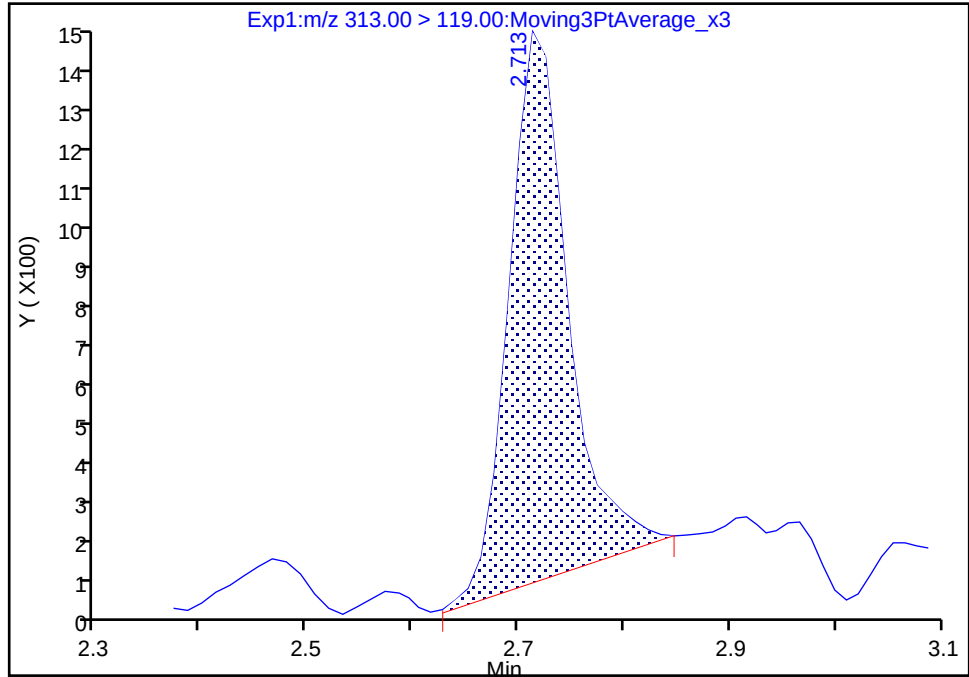
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul 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: 2

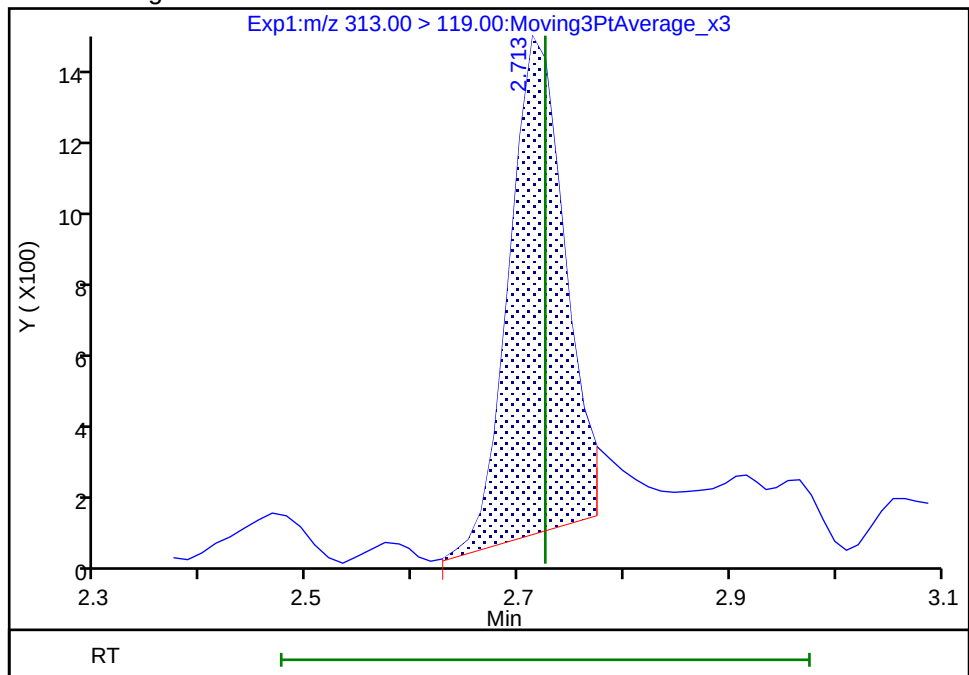
RT: 2.71
Area: 4941
Amount: 0.023573
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 4631
Amount: 0.023890
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

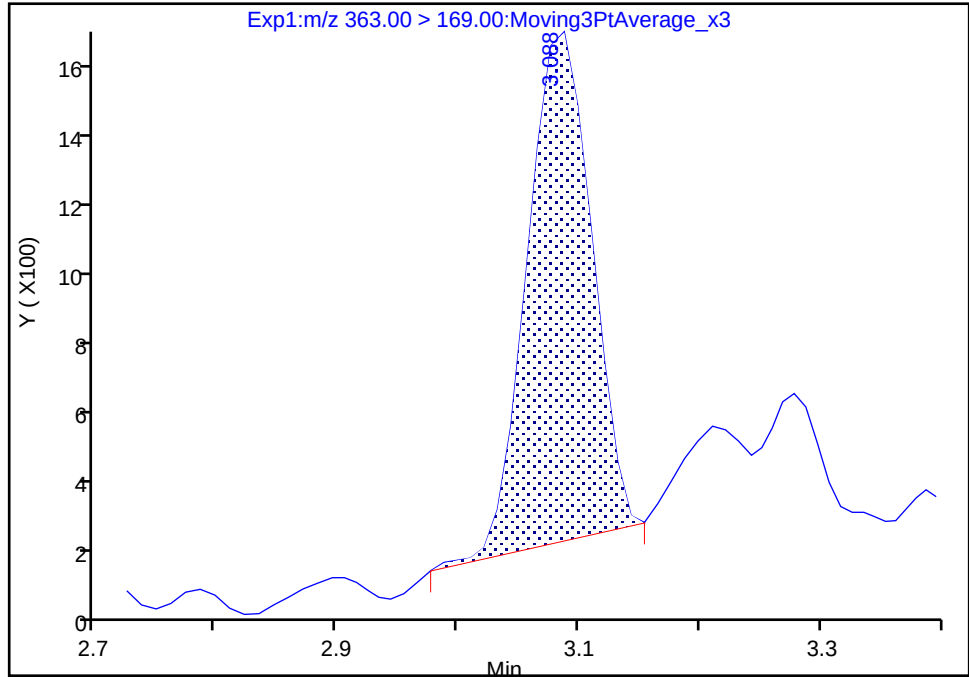
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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: 2

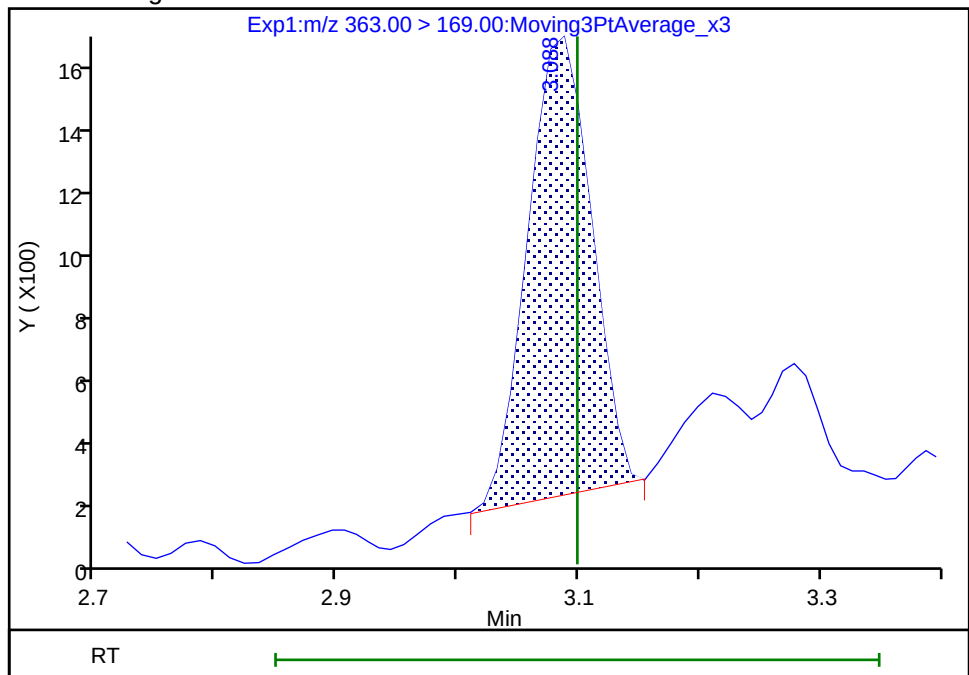
RT: 3.09
Area: 5207
Amount: 0.008010
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 5142
Amount: 0.007928
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

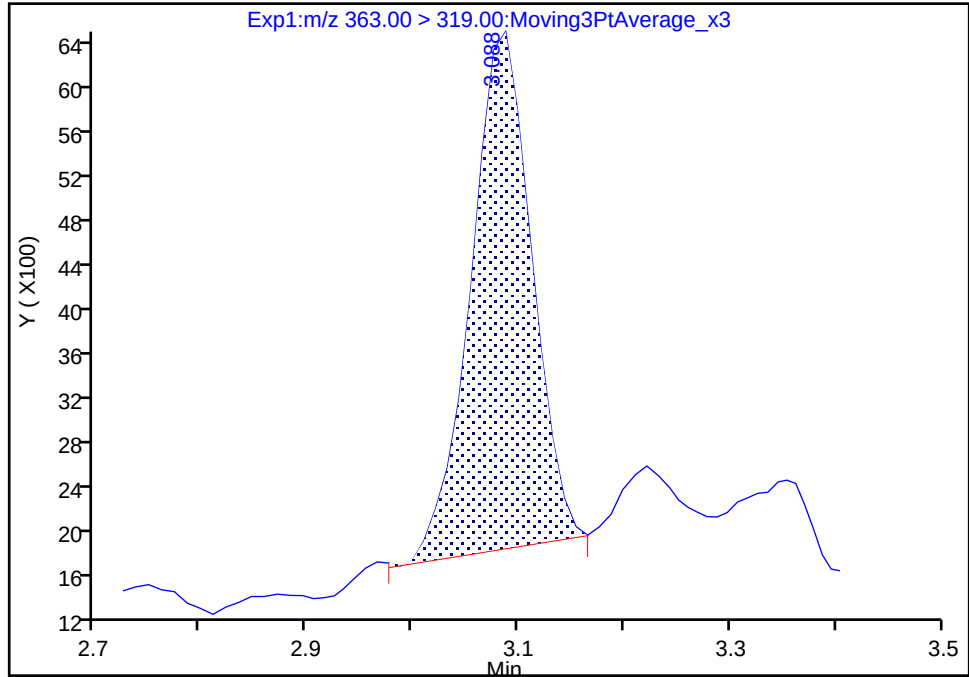
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul 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

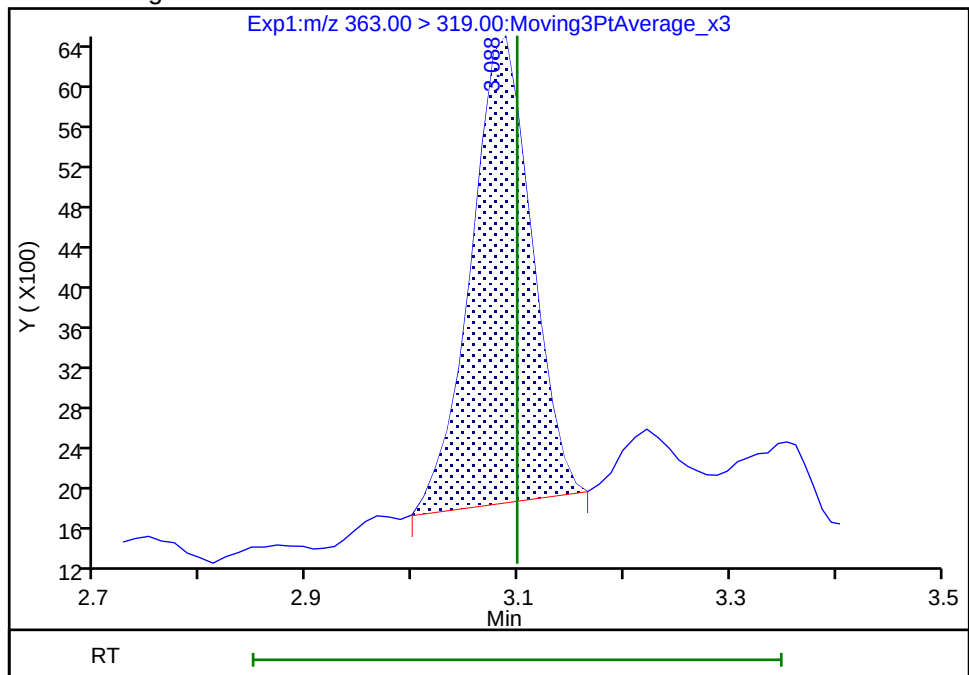
RT: 3.09
Area: 18503
Amount: 0.008010
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 18313
Amount: 0.007928
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:03:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

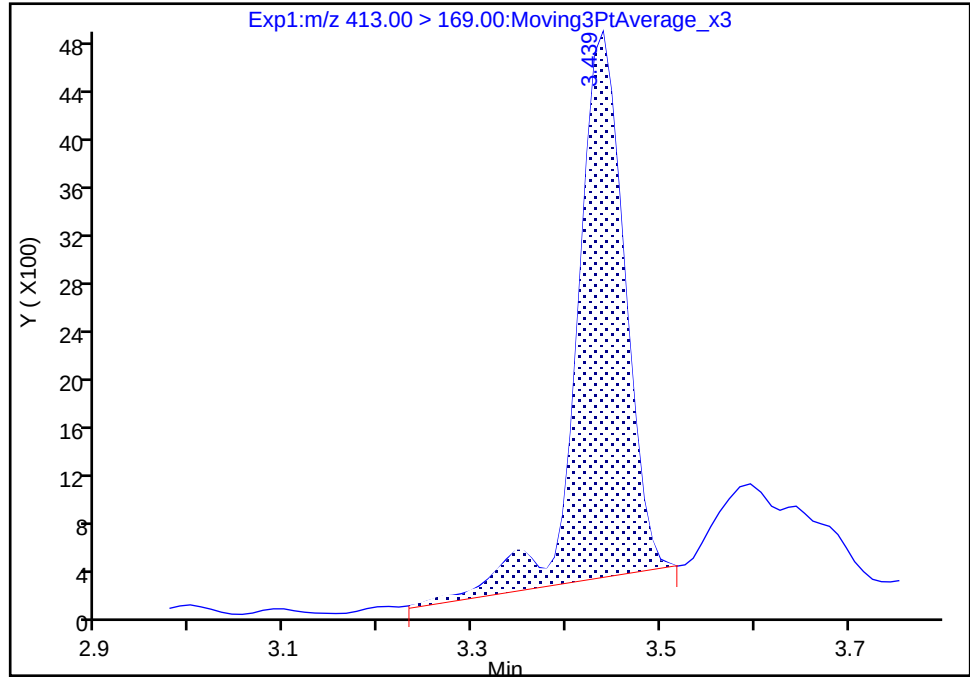
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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

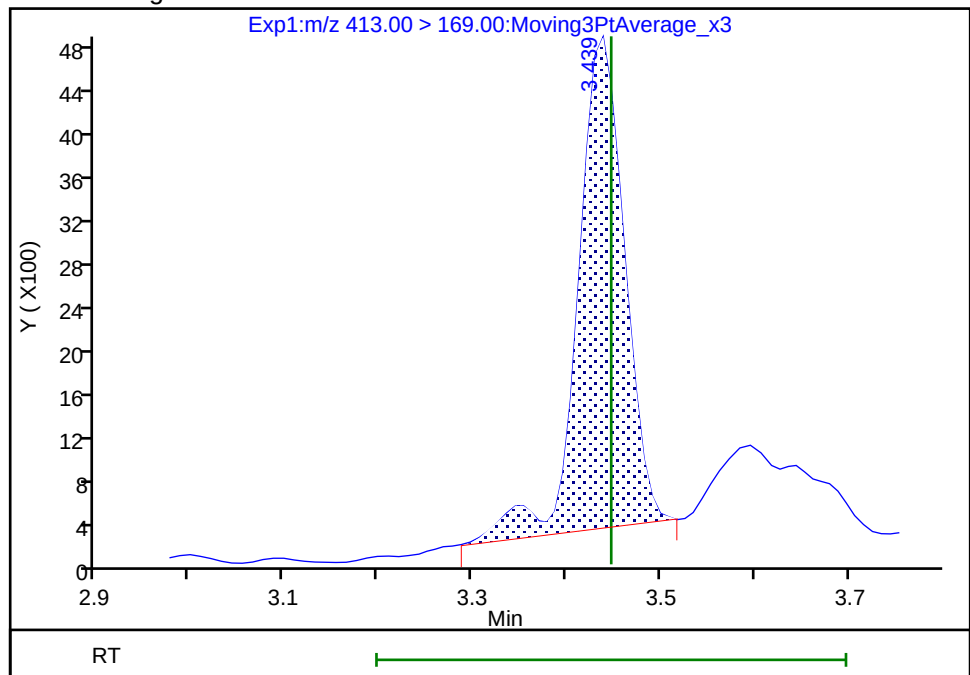
RT: 3.44
Area: 16002
Amount: 0.018614
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 15591
Amount: 0.018614
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:03:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

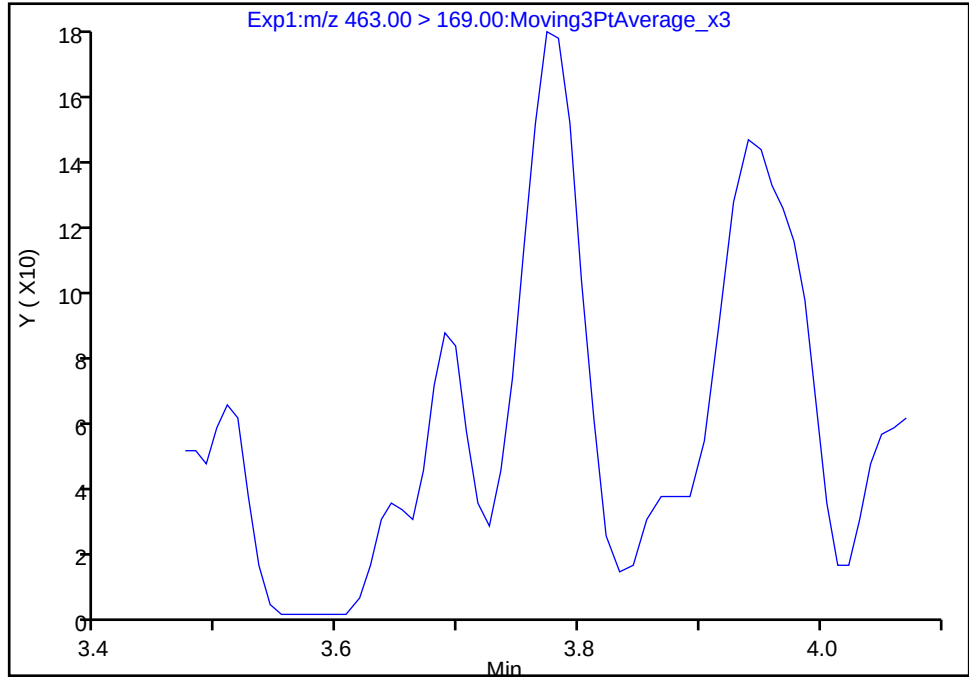
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

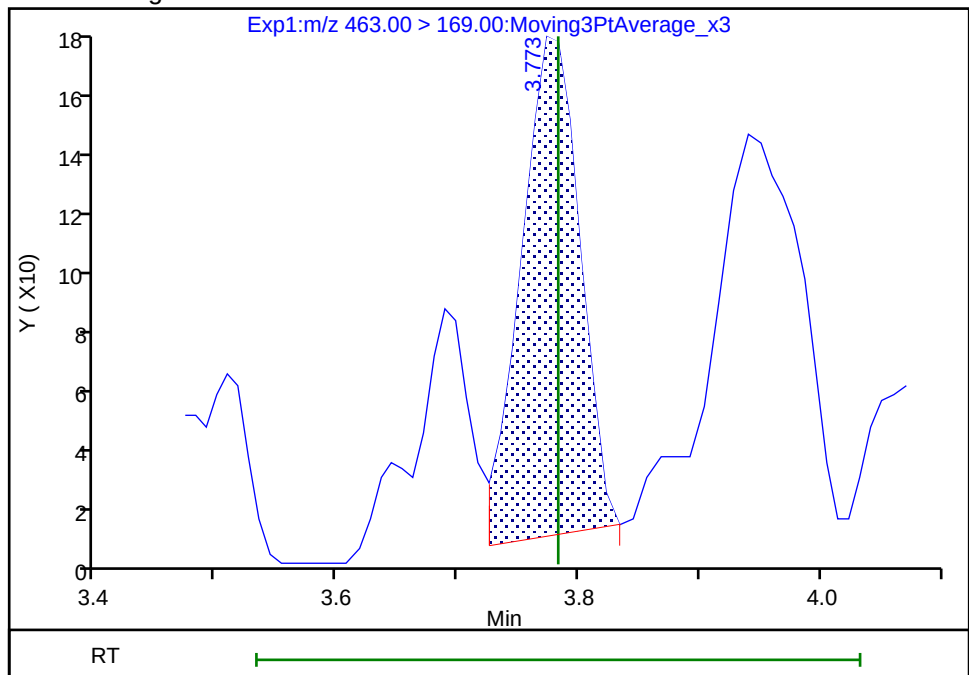
Signal: 2

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.77
Area: 567
Amount: 0.001736
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:03:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

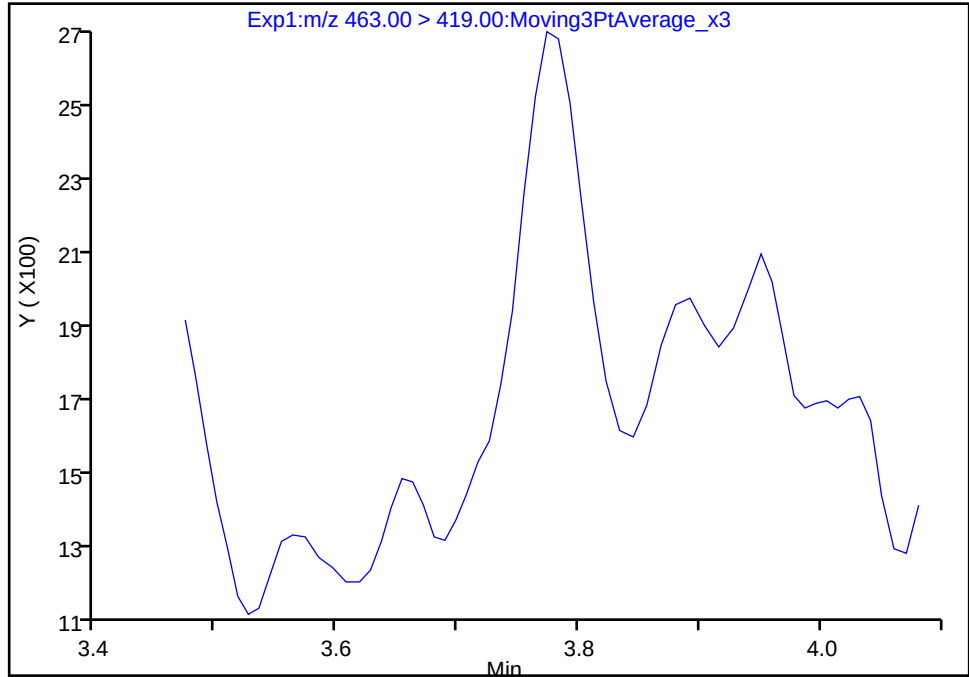
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

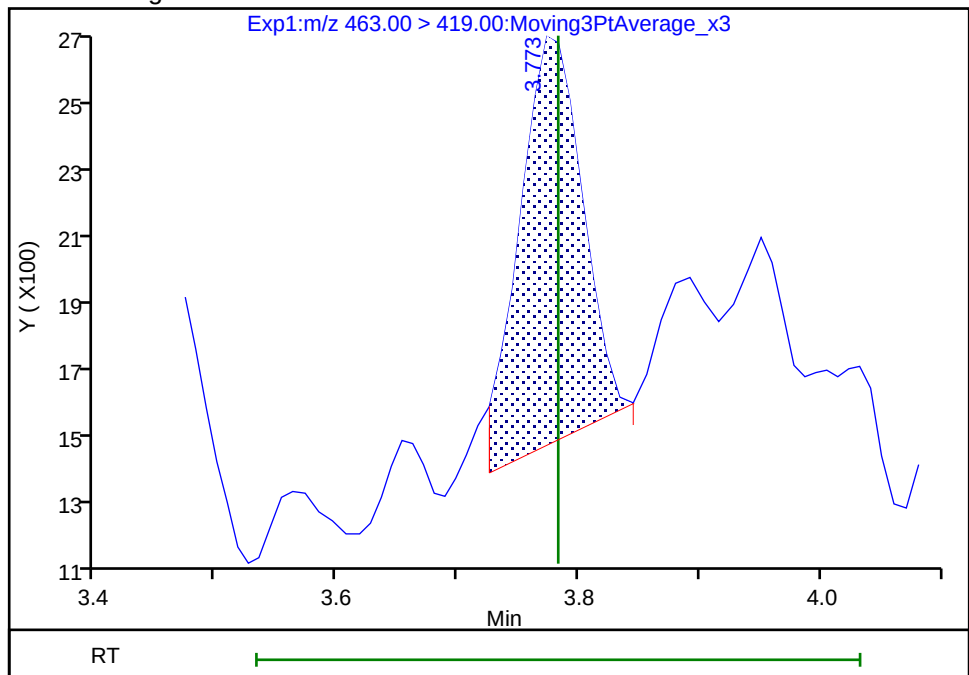
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 4270
Amount: 0.001736
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:03:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

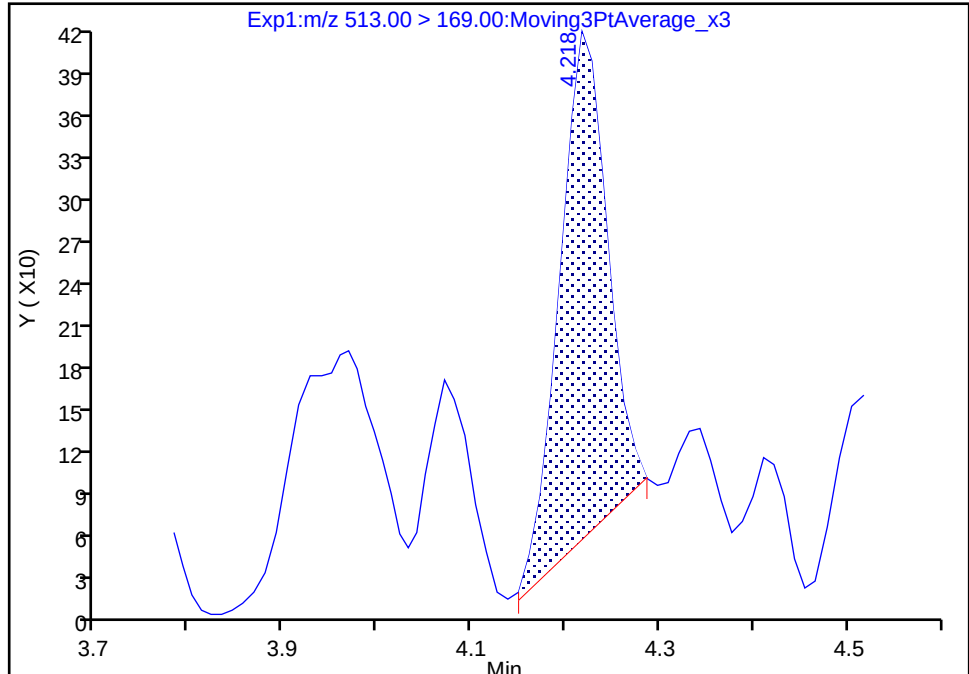
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

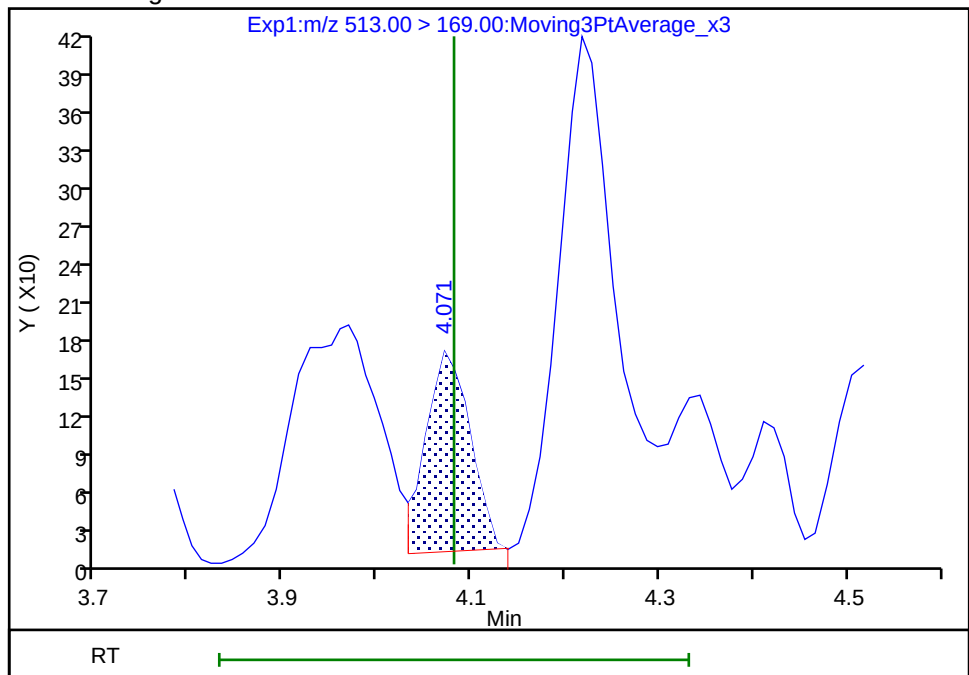
RT: 4.22
Area: 1289
Amount: 0.000727
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 520
Amount: 0.001664
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:03:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

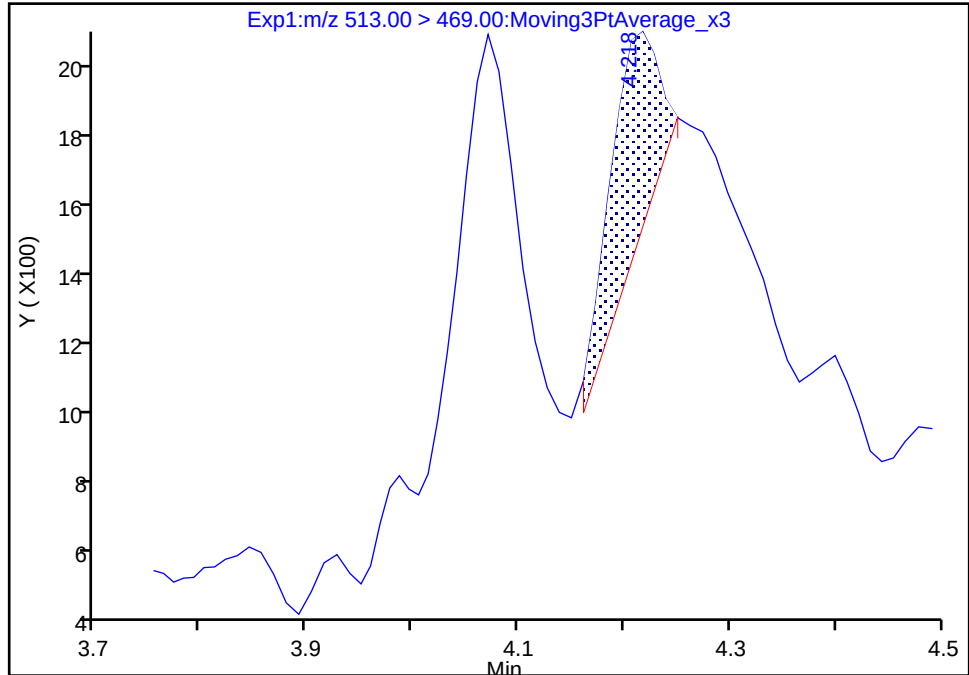
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

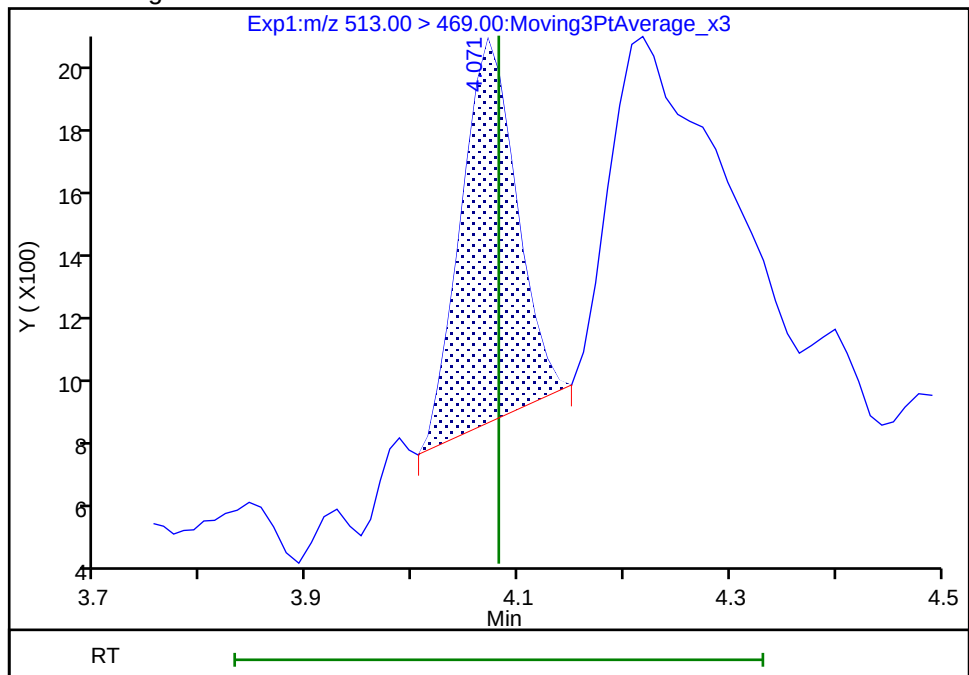
RT: 4.22
Area: 1879
Amount: 0.000727
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 4301
Amount: 0.001664
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:03:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

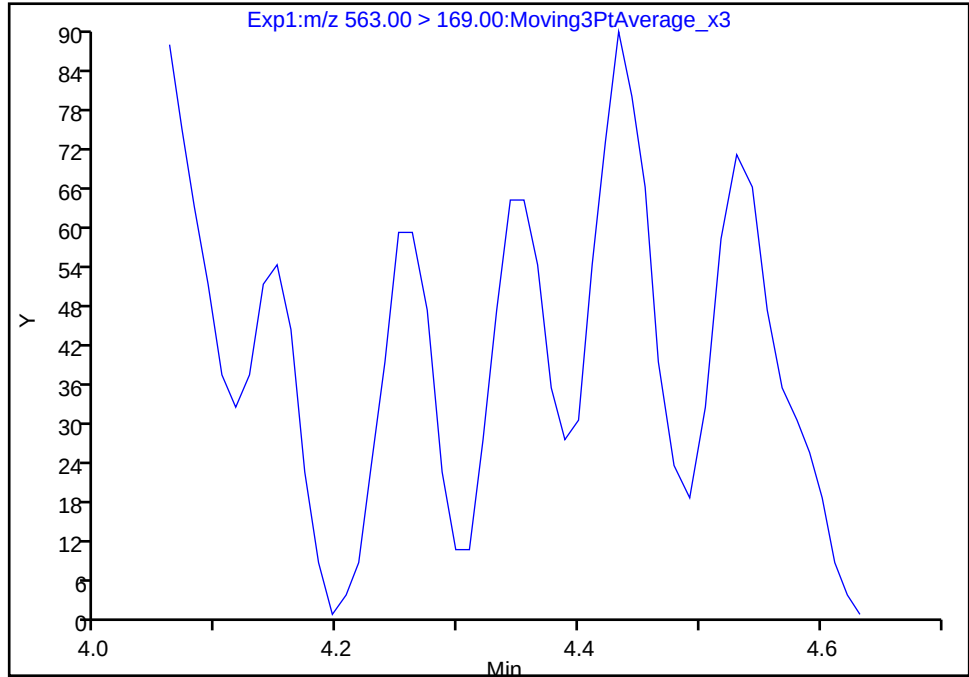
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul 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: 2

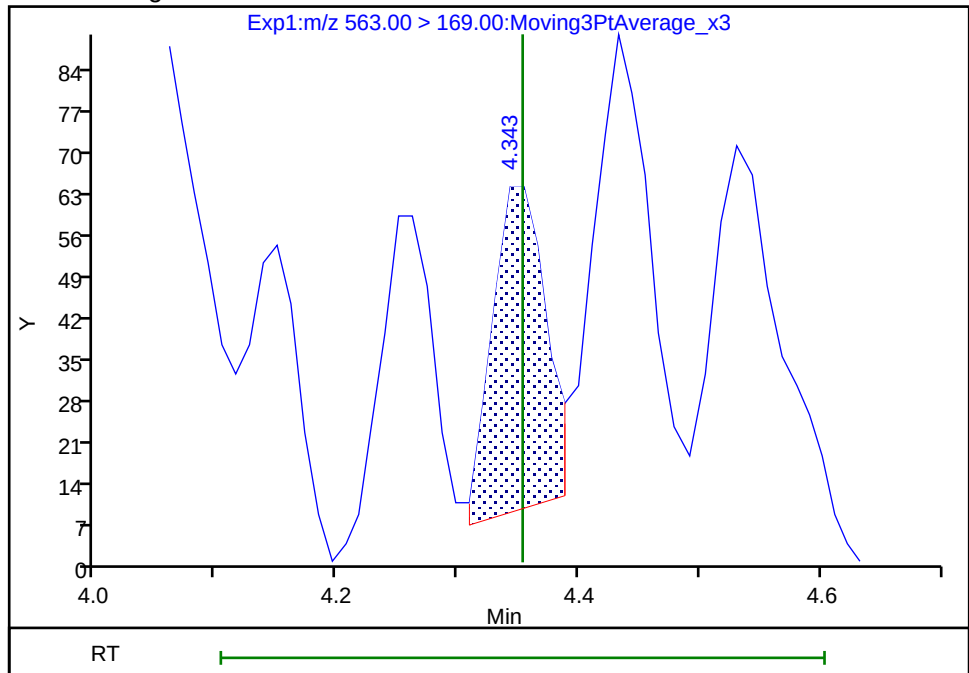
Not Detected
Expected RT: 4.35

Processing Integration Results



RT: 4.34
Area: 169
Amount: 0.001494
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:04:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

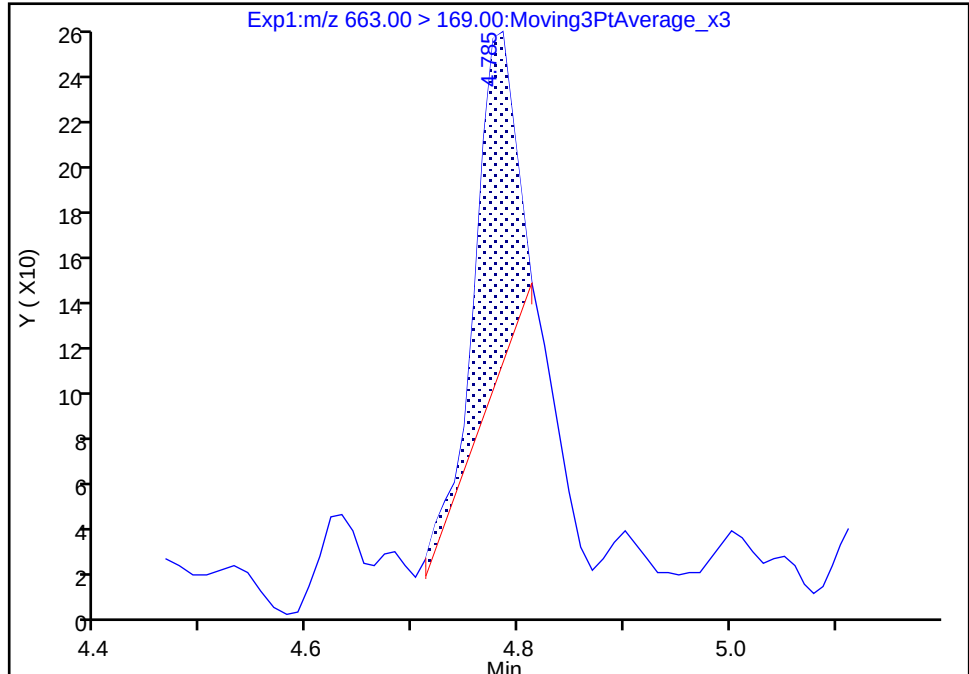
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

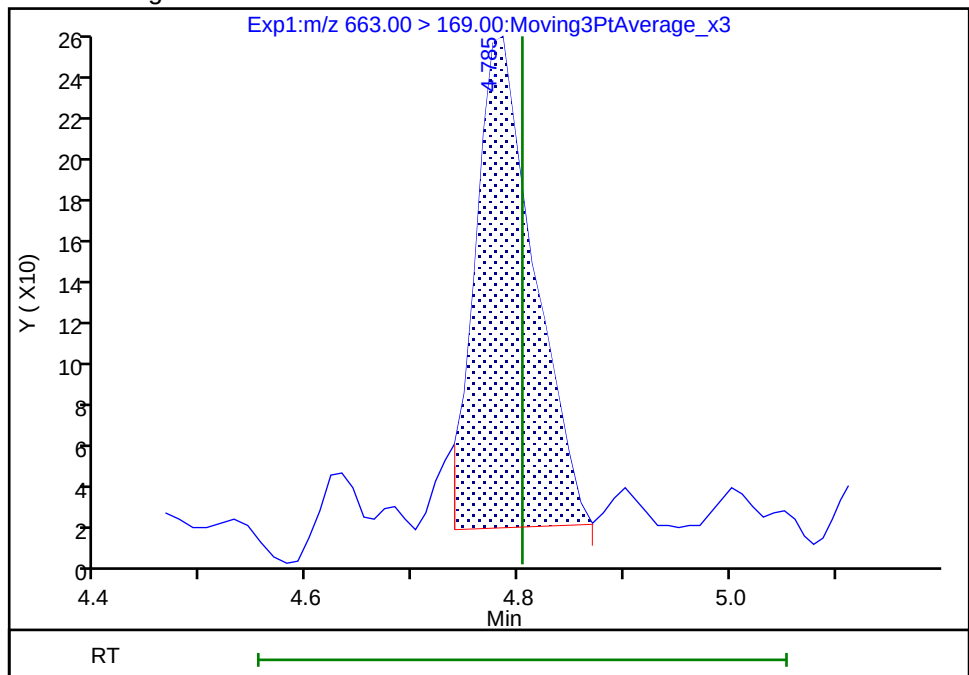
RT: 4.79
Area: 365
Amount: 0.001455
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 891
Amount: 0.001457
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:05:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

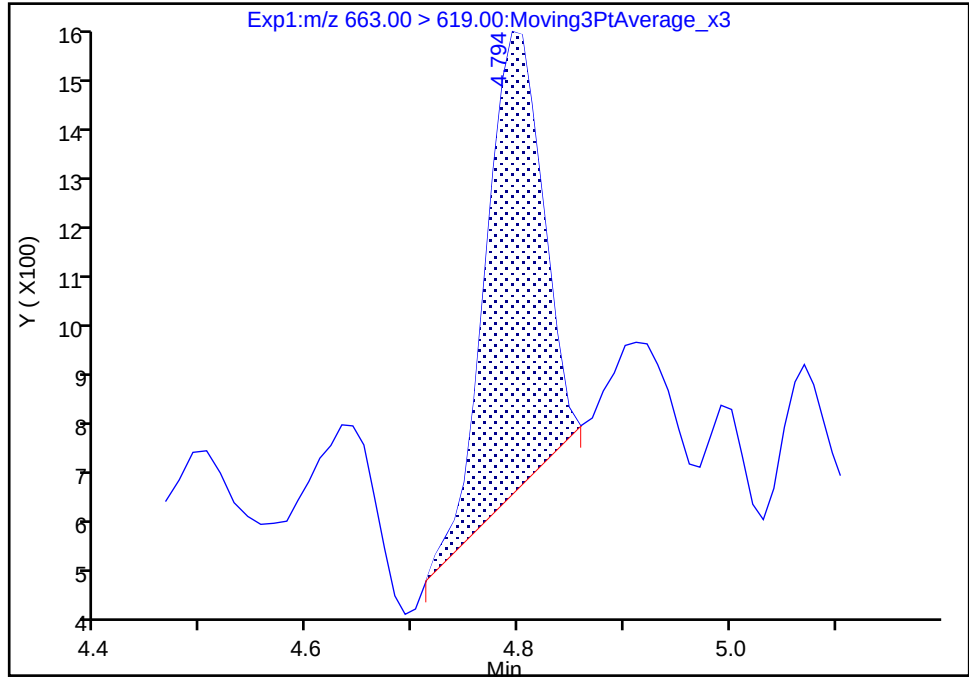
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

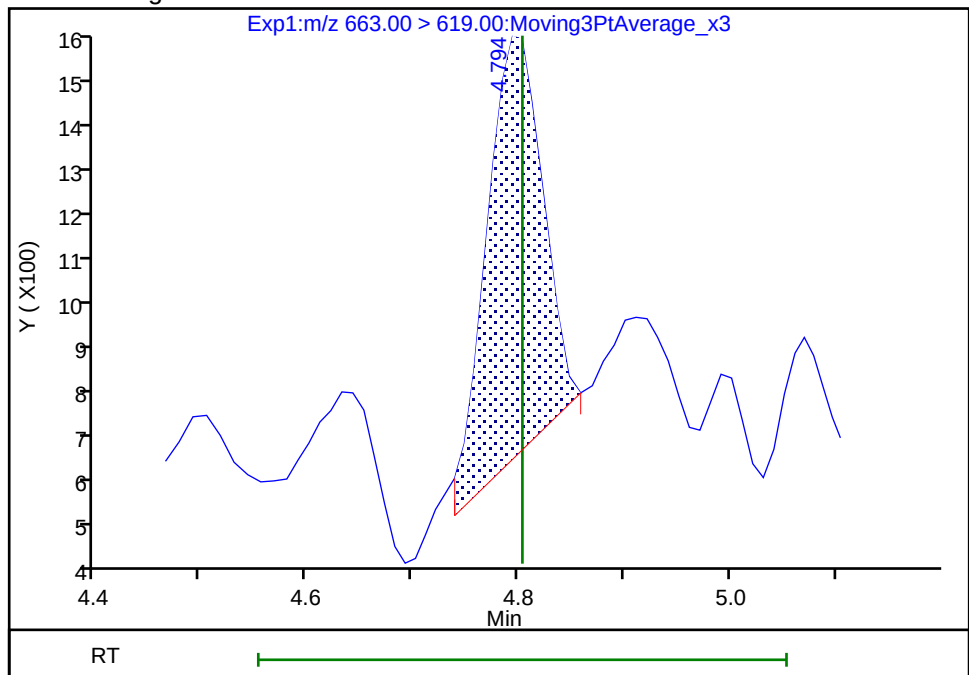
RT: 4.79
Area: 3240
Amount: 0.001455
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 3244
Amount: 0.001457
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:05:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

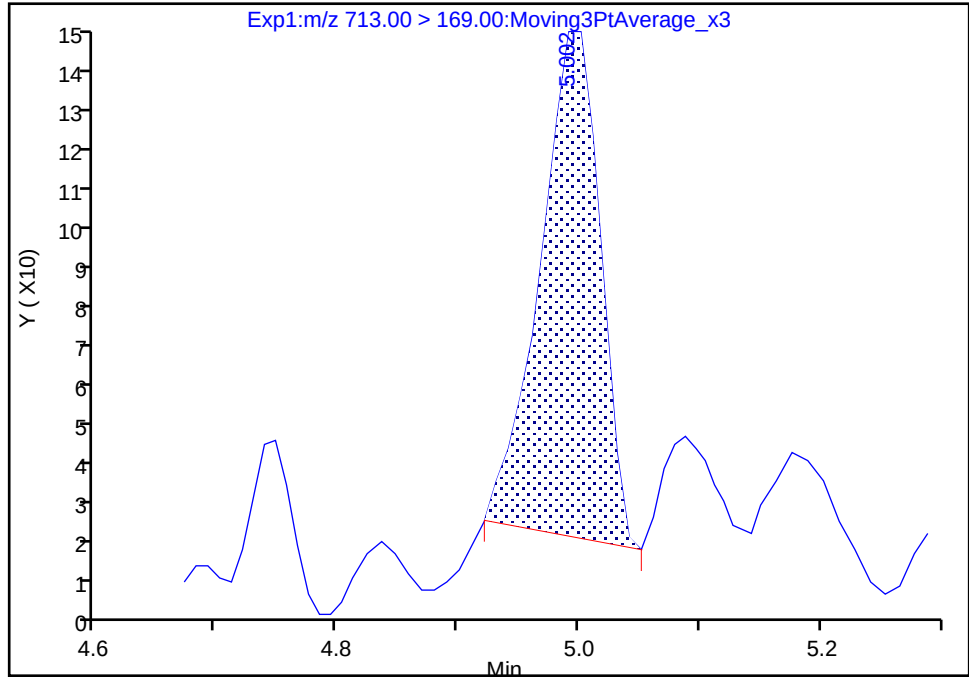
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

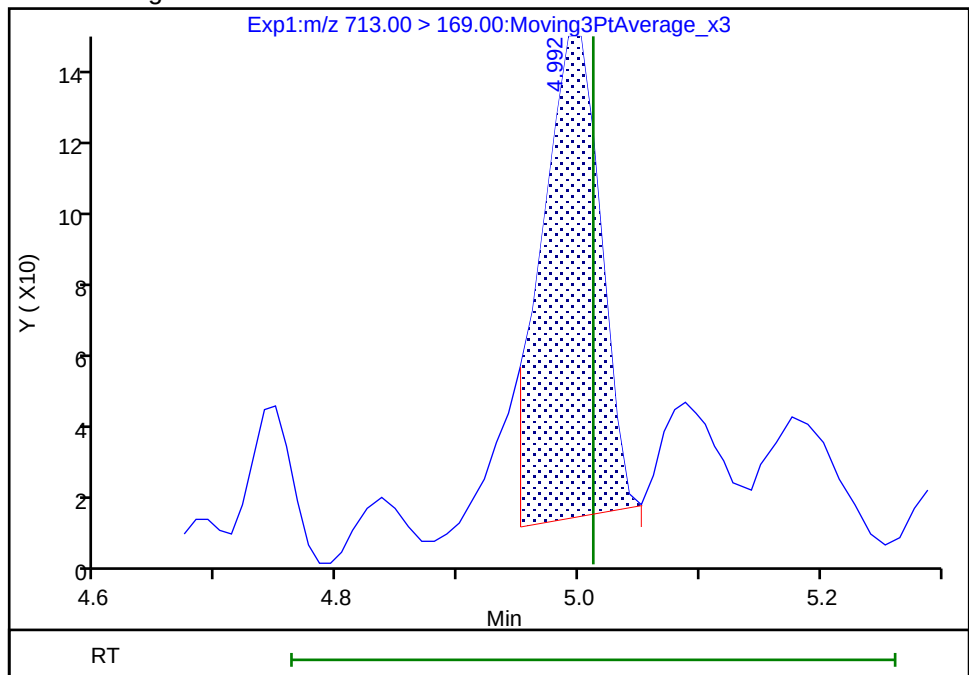
RT: 5.00
Area: 433
Amount: 0.001487
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 440
Amount: 0.001512
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:05:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

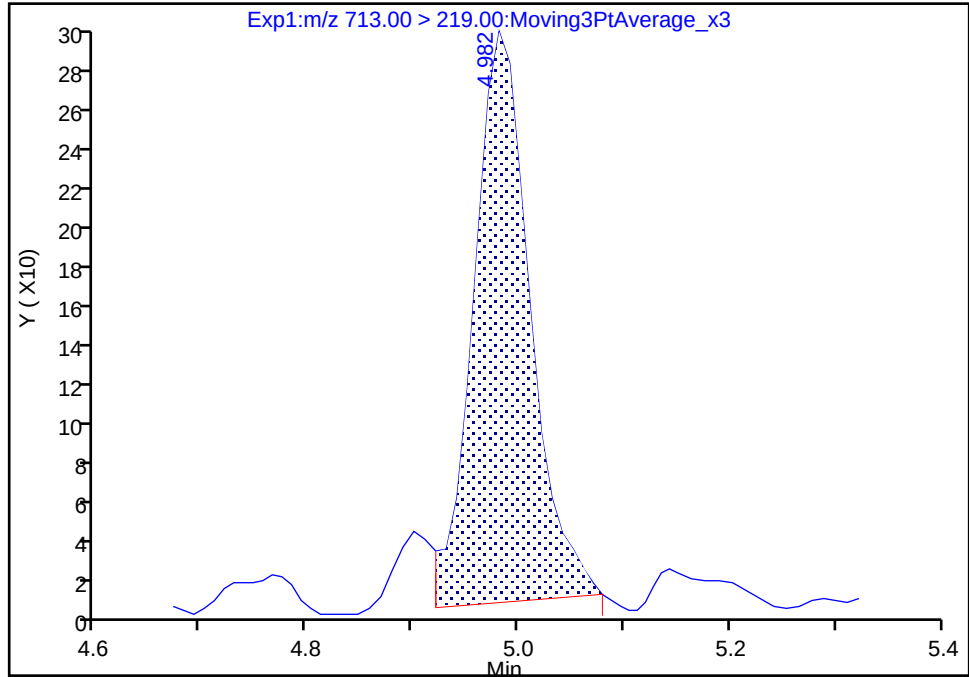
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Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

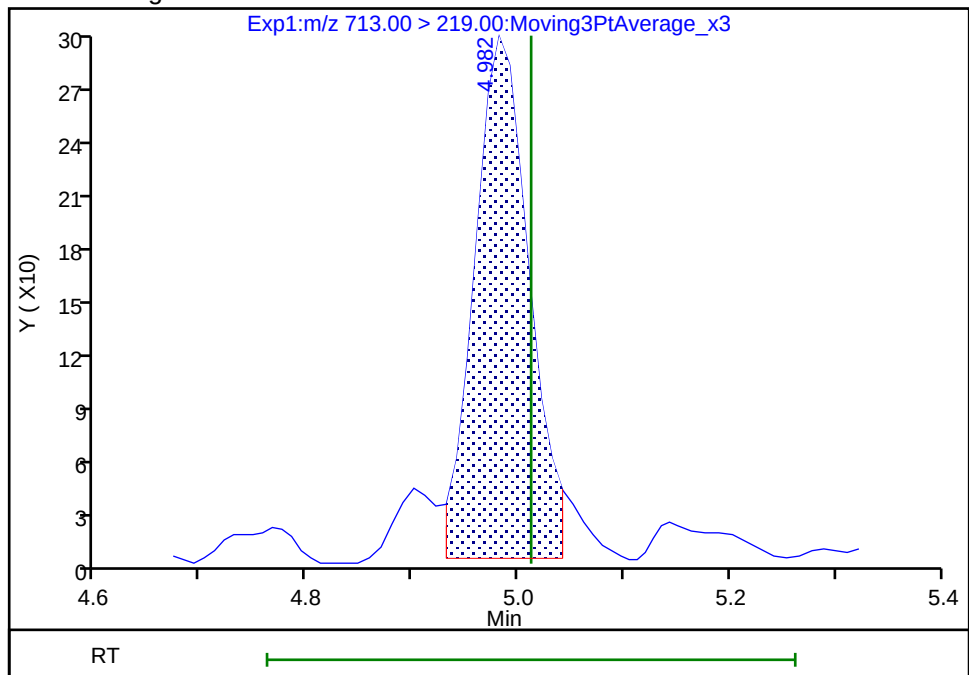
RT: 4.98
Area: 1072
Amount: 0.001487
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 1038
Amount: 0.001512
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:05:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

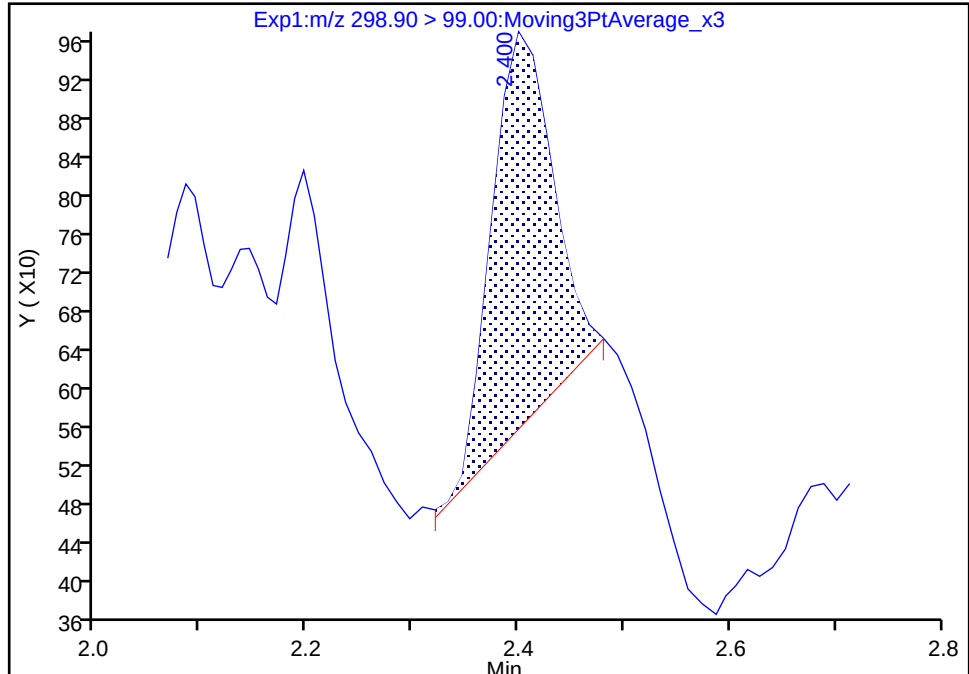
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Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

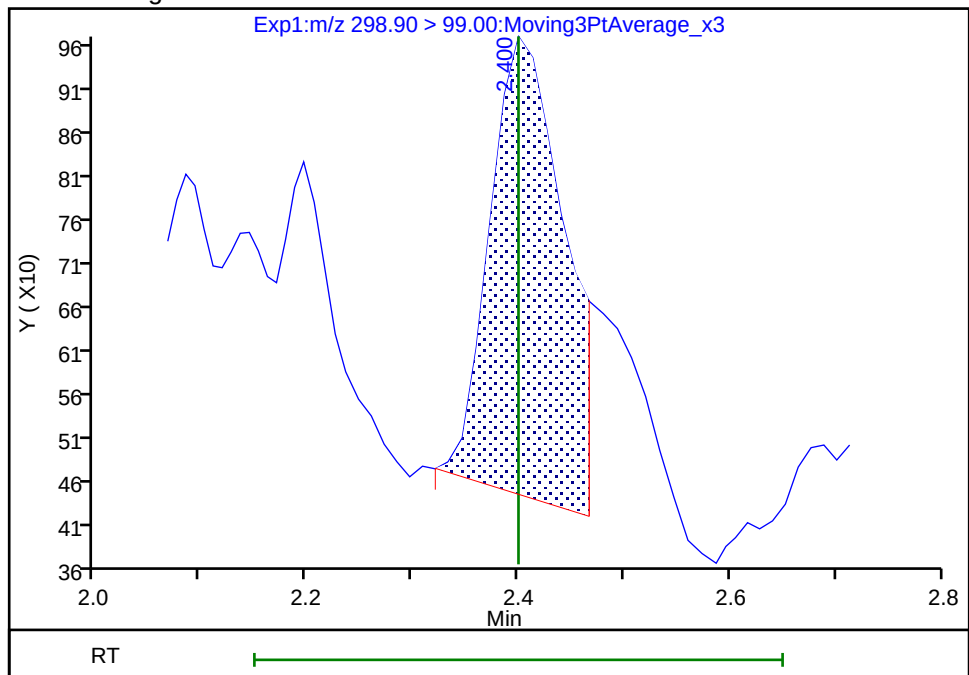
RT: 2.40
Area: 1623
Amount: 0.002169
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2505
Amount: 0.002365
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

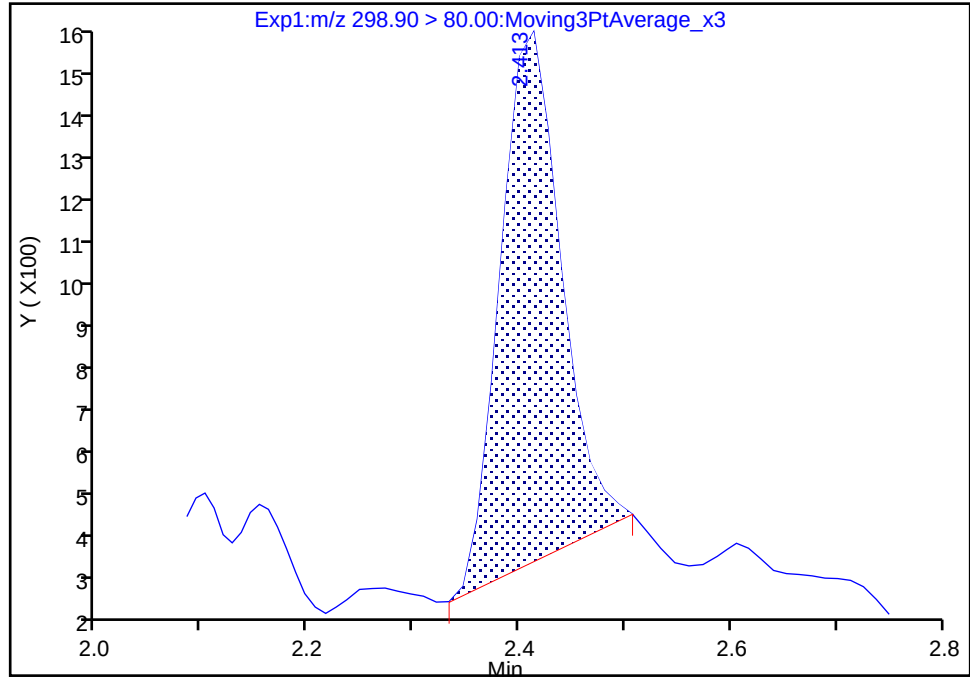
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul 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

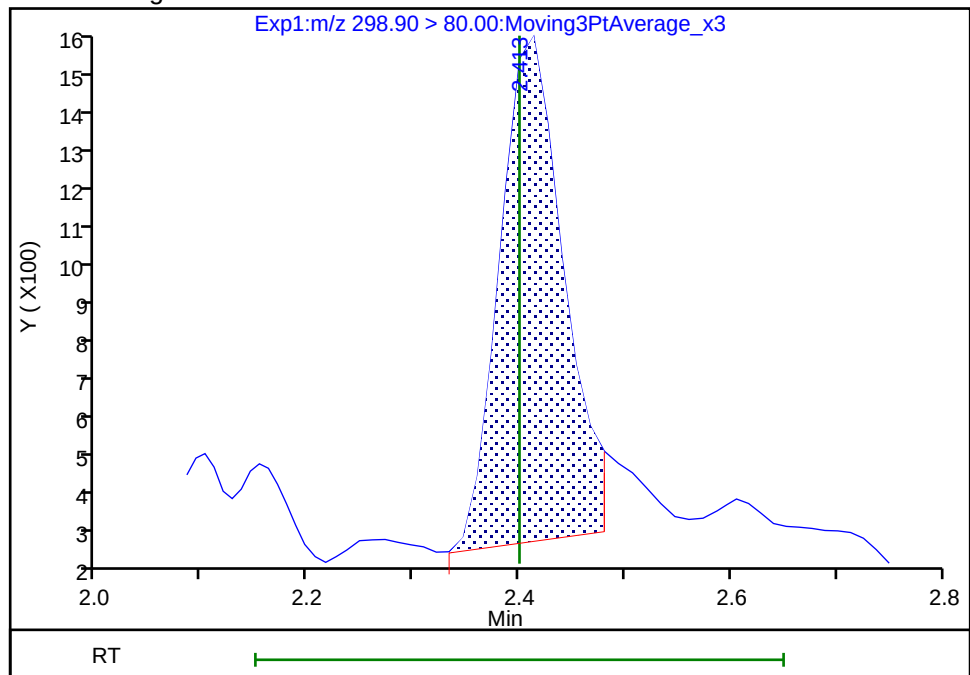
RT: 2.41
Area: 4724
Amount: 0.002169
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 5151
Amount: 0.002365
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

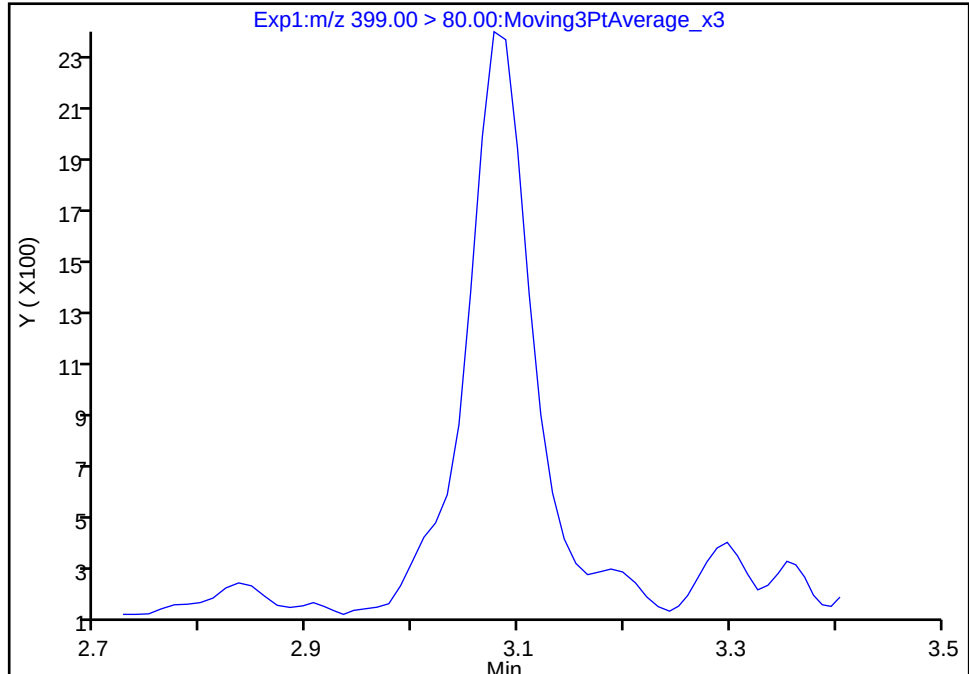
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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

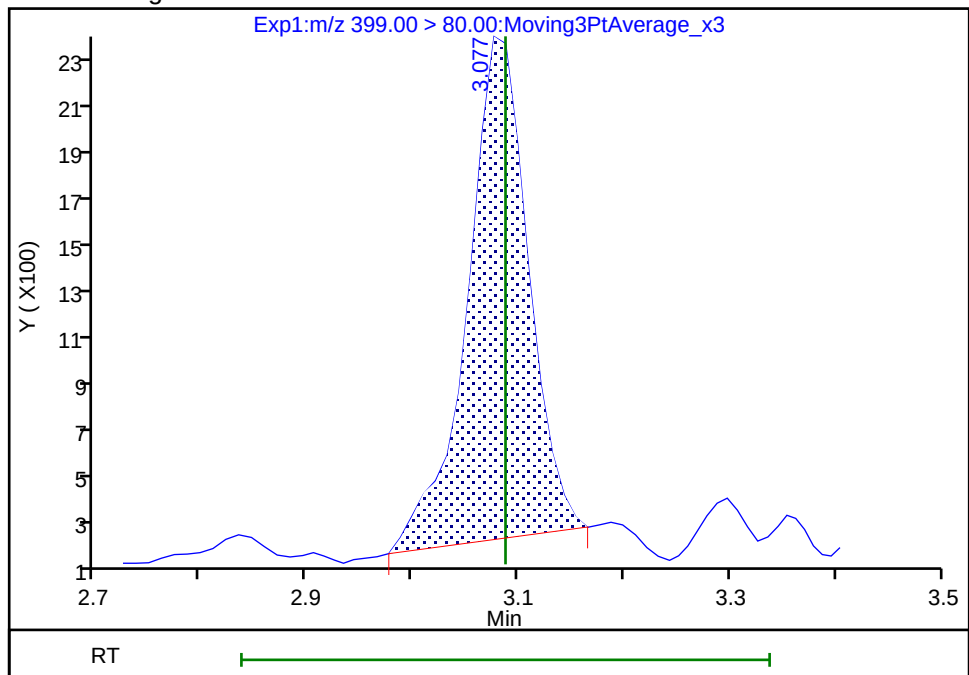
Signal: 1

Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 8340
Amount: 0.005072
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:02:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

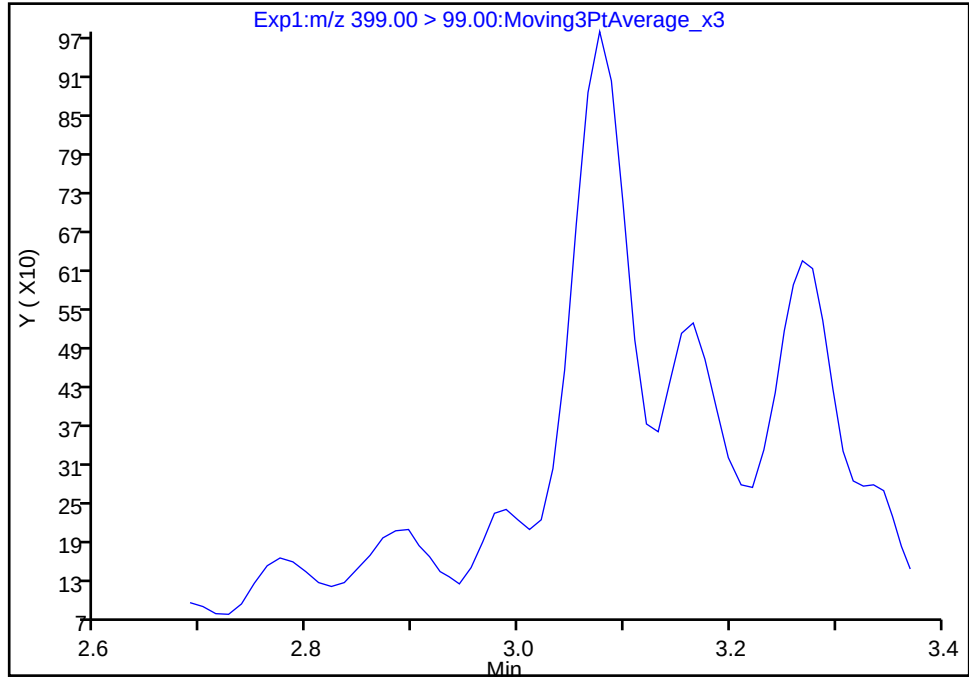
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul 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

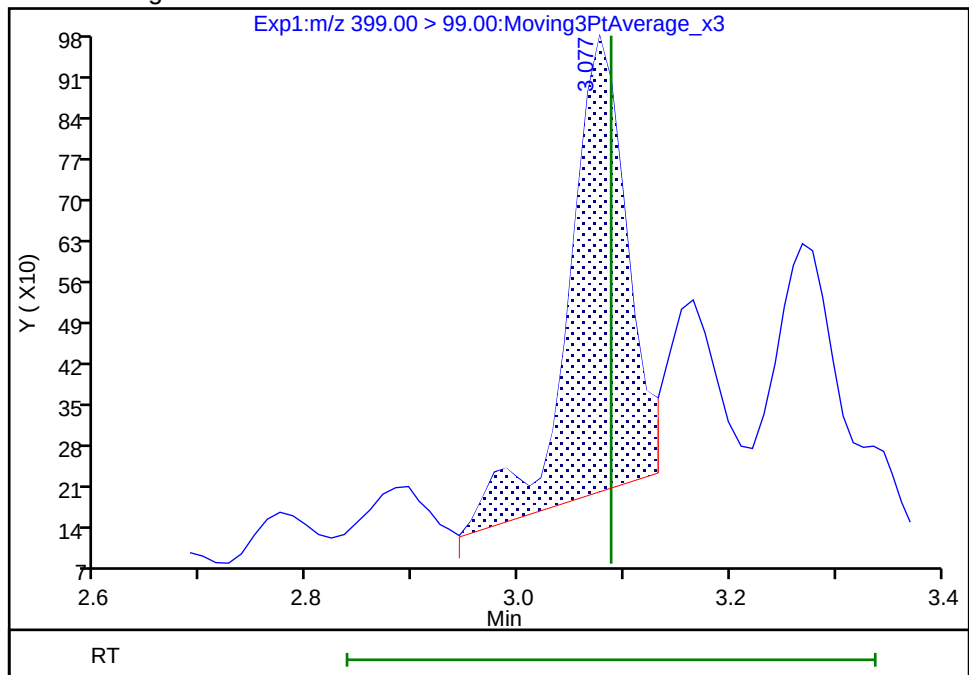
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 2961
Amount: 0.005072
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:02:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

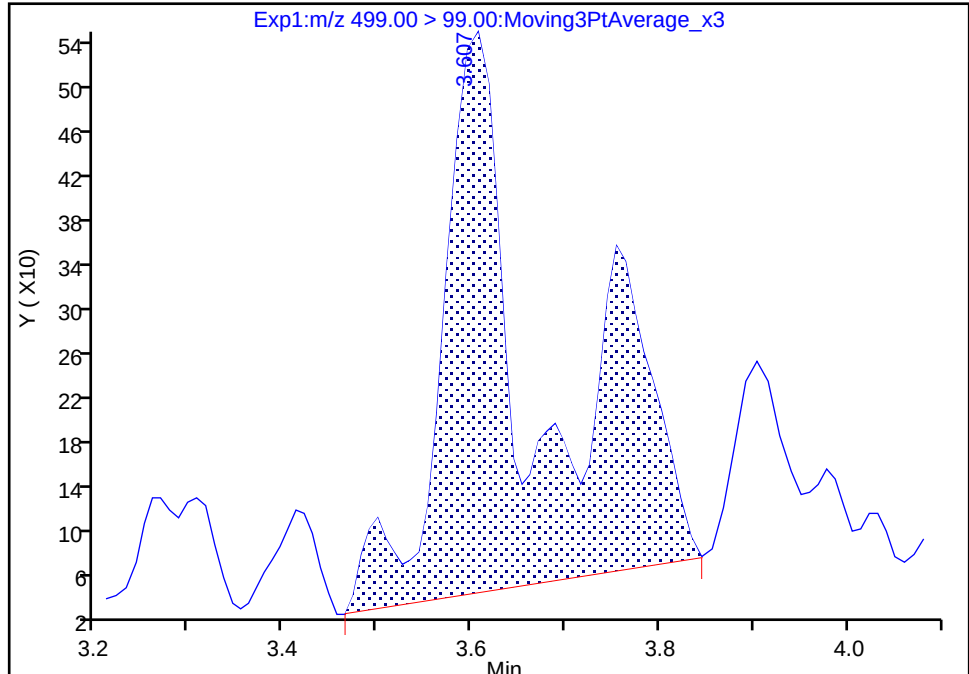
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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

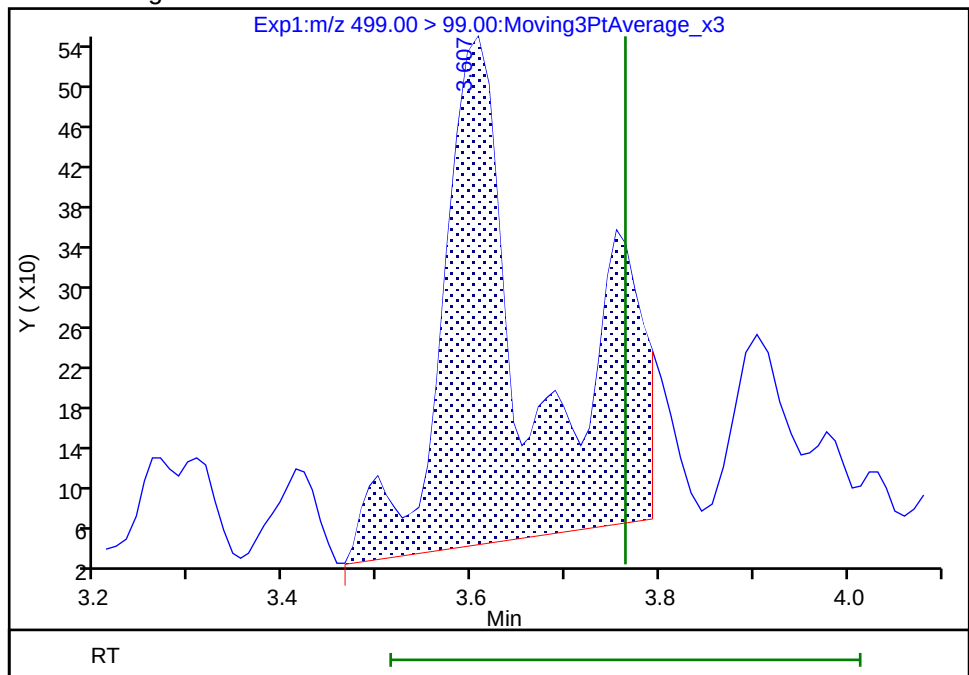
RT: 3.61
Area: 3800
Amount: 0.017751
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 3568
Amount: 0.007299
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:03:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

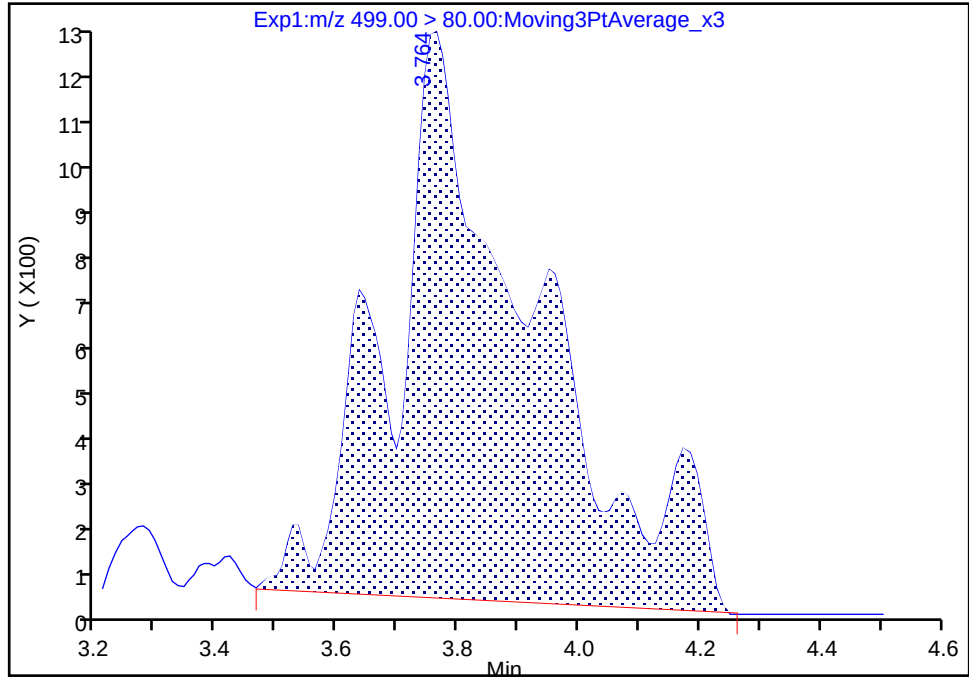
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d
Injection Date: 05-Jan-2023 17:49:20 Instrument ID: LC812
Lims ID: 460-271908-A-1-A Lab Sample ID: 200-271908-1
Client ID: BCS-09-64_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 23
Injection Vol: 20.0 ul 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

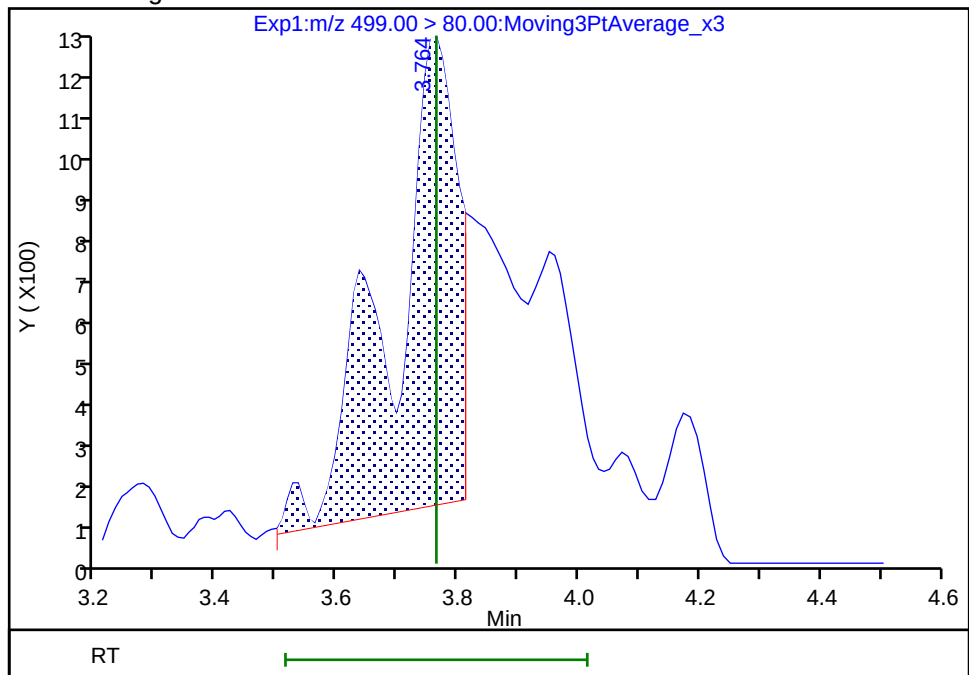
RT: 3.76
Area: 20173
Amount: 0.017751
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 8295
Amount: 0.007299
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:03:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

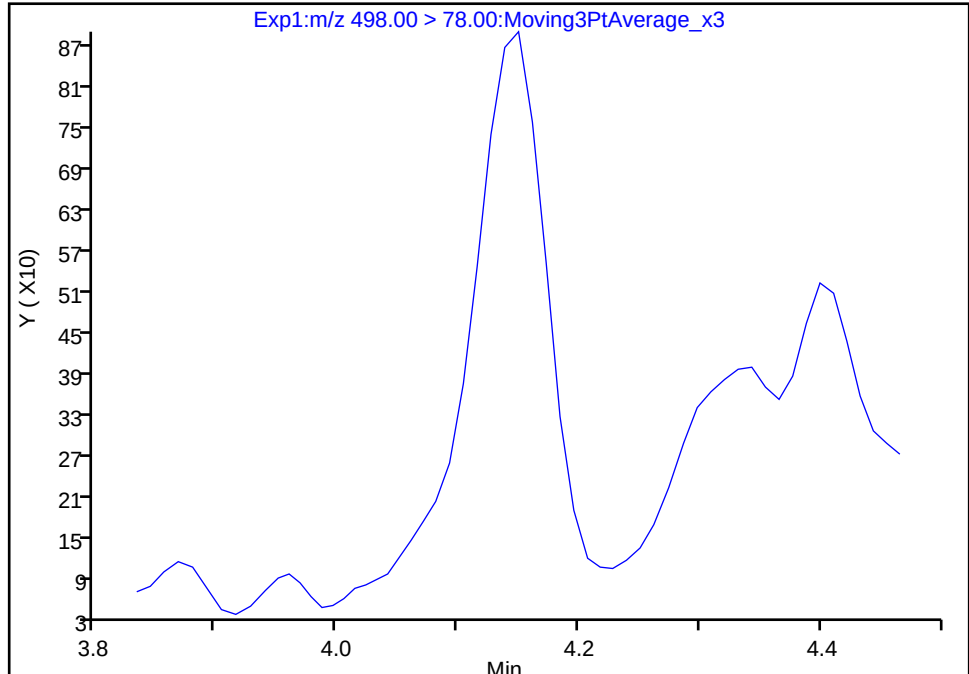
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

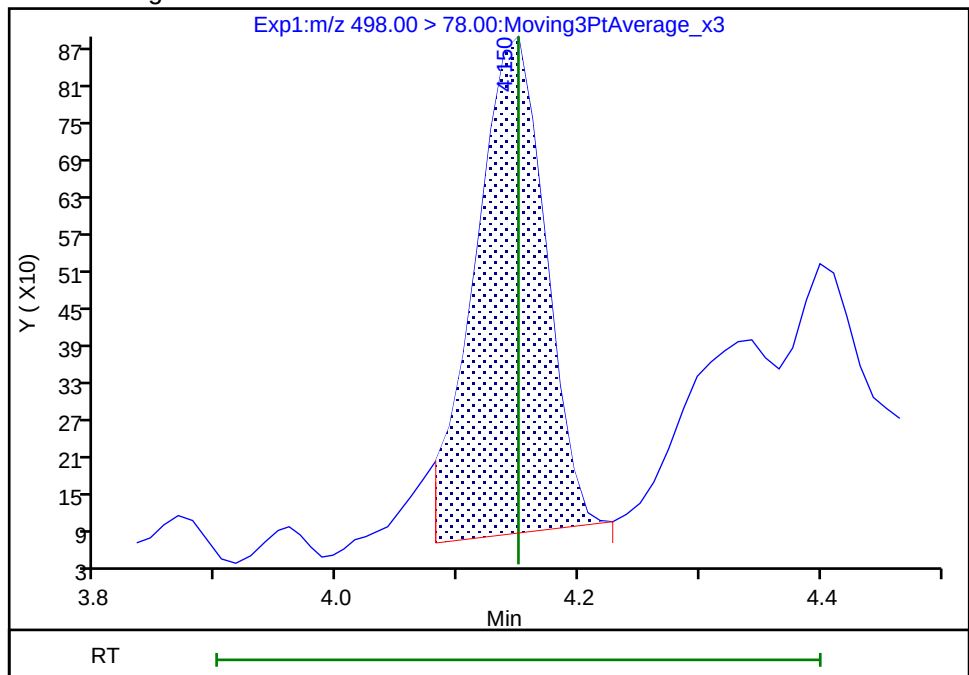
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 3244
Amount: 0.002000
Amount Units: ng/mlReviewer: nampitakw, 06-Jan-2023 14:04:11
Audit Action: Manually IntegratedAudit Reason: Incomplete Integration
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Eurofins Burlington

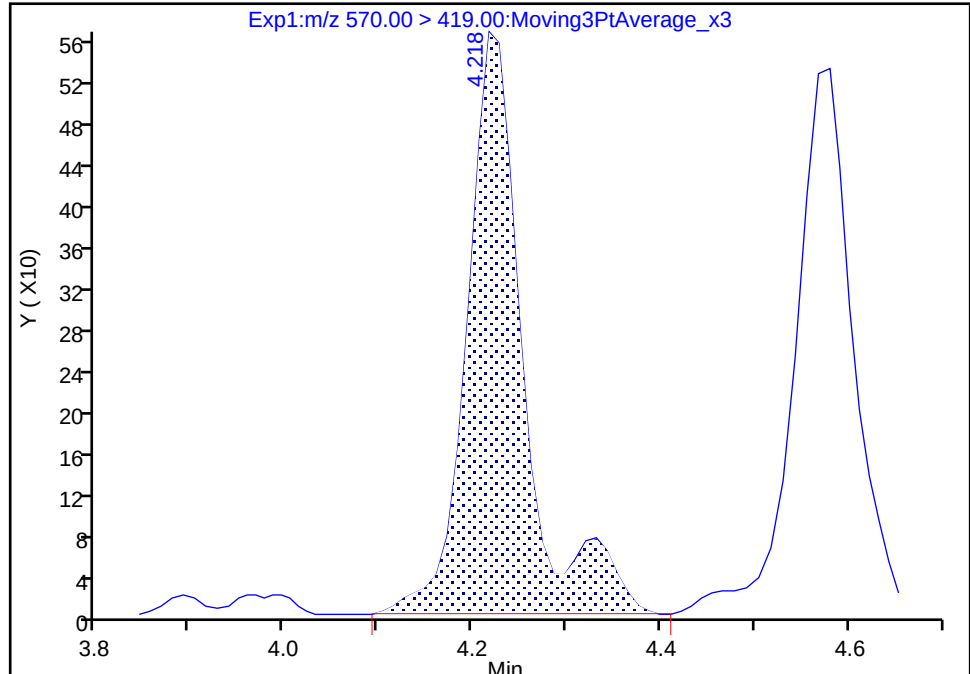
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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

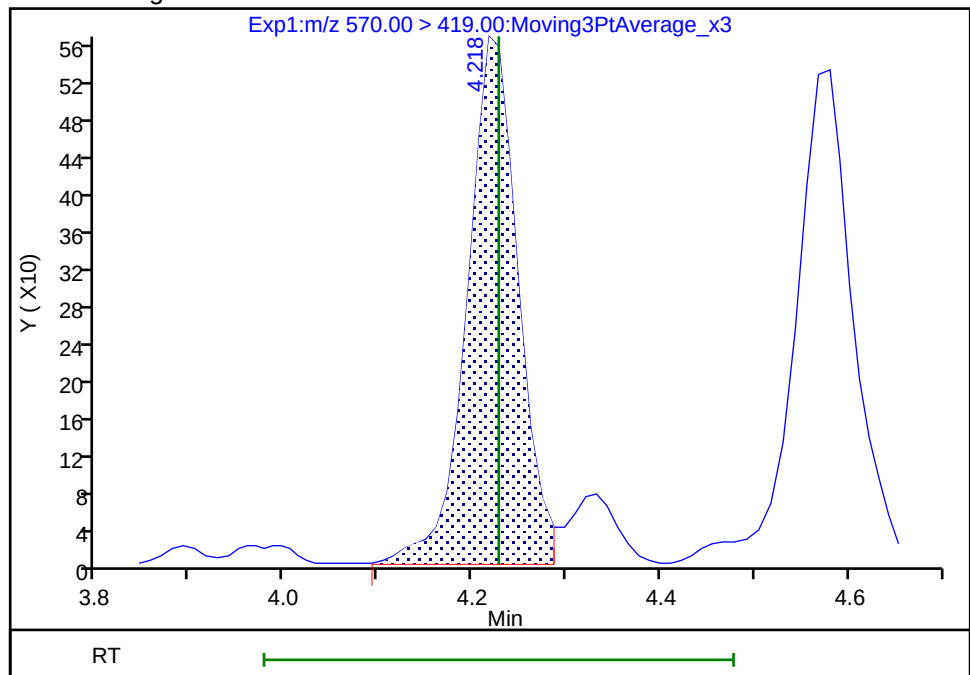
RT: 4.22
Area: 2401
Amount: -0.005671
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 2134
Amount: -0.006333
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:04:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

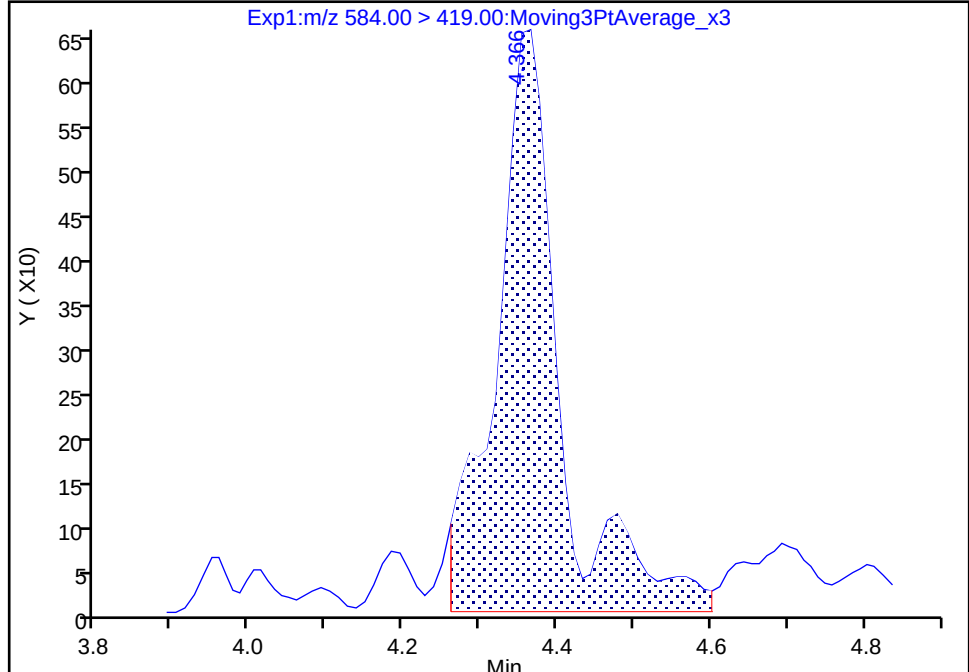
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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

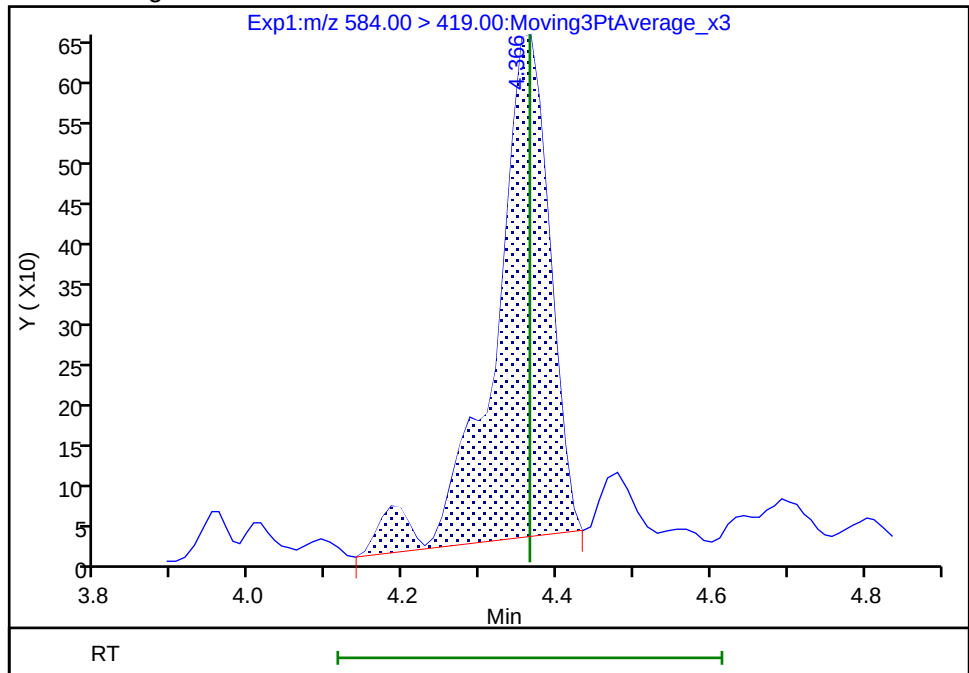
RT: 4.37
Area: 3788
Amount: 0.009205
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 3159
Amount: 0.007677
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:04:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

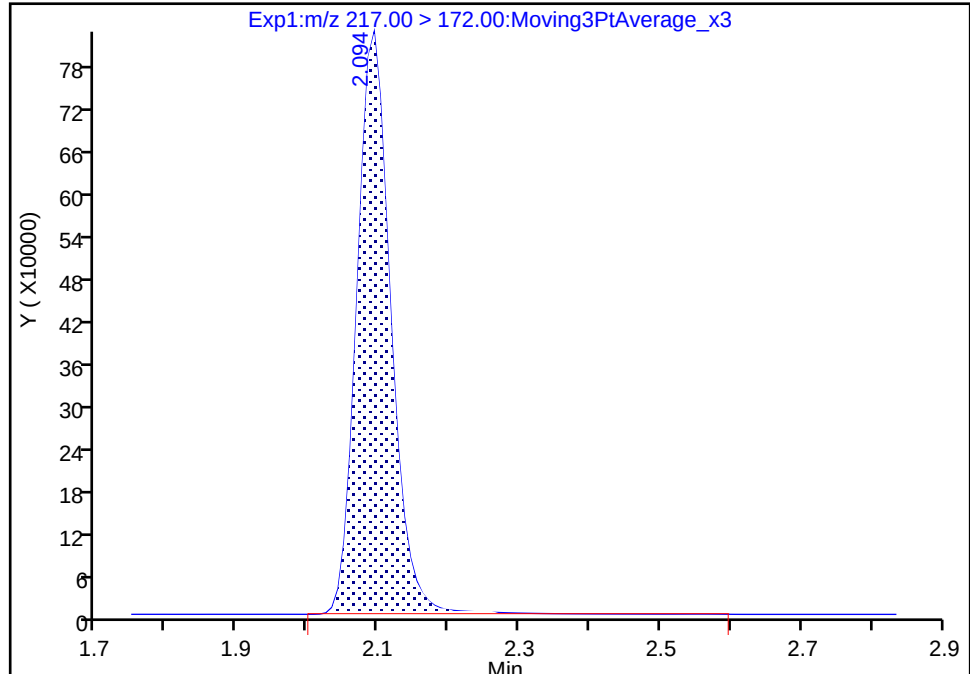
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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 1 13C4 PFBA, CAS: STL00992

Signal: 1

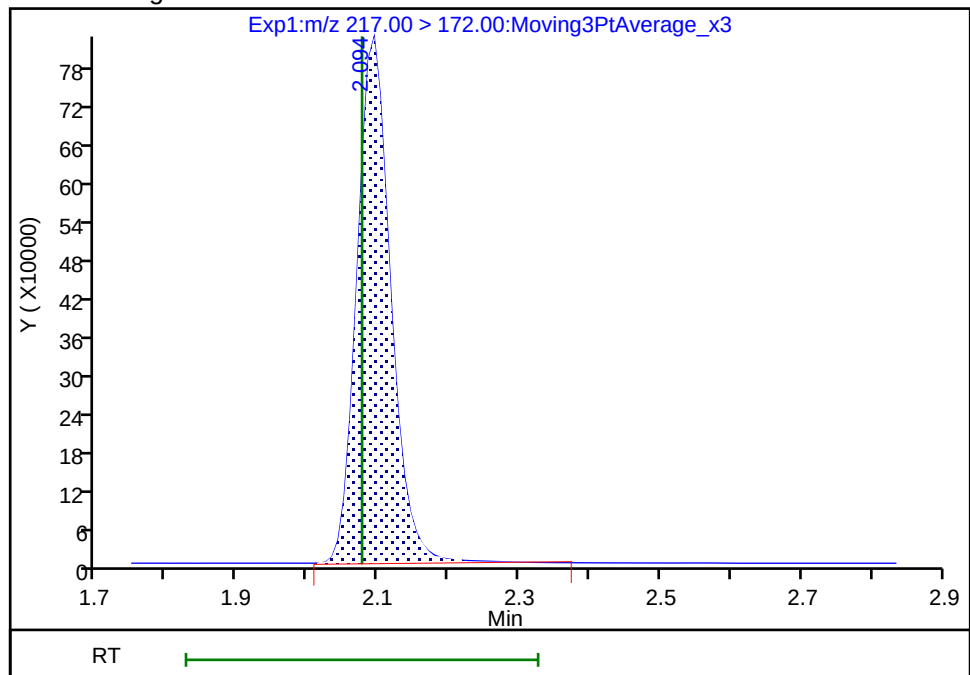
RT: 2.09
Area: 2762949
Amount: 1.049913
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2750213
Amount: 1.045074
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:01:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

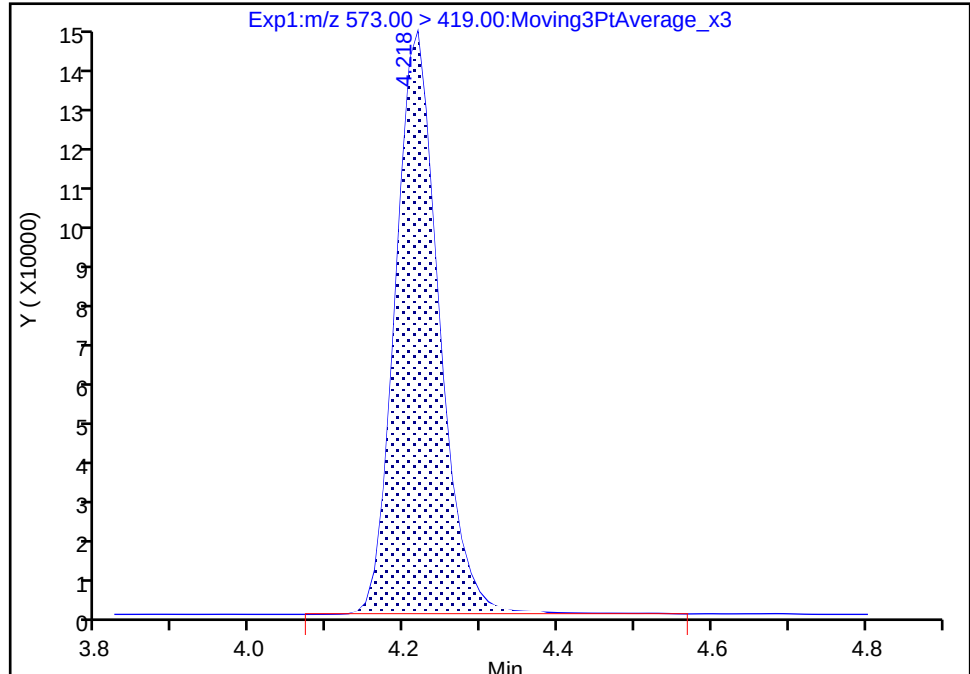
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A23.d				
Injection Date:	05-Jan-2023 17:49:20	Instrument ID:	LC812		
Lims ID:	460-271908-A-1-A	Lab Sample ID:	200-271908-1		
Client ID:	BCS-09-64_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	23
Injection 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 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

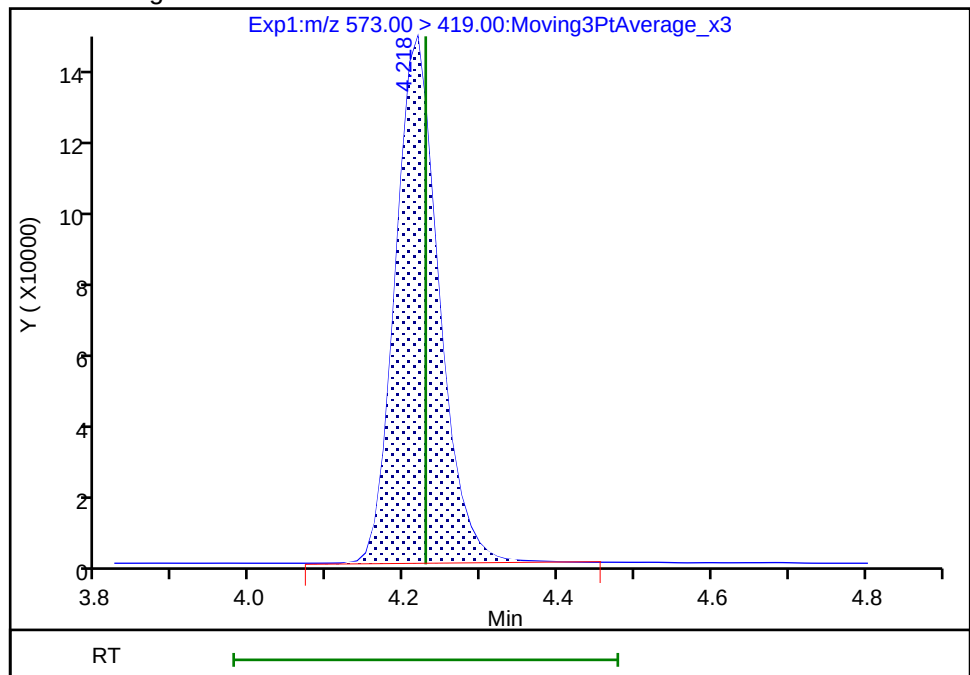
RT: 4.22
Area: 586717
Amount: 1.198357
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 585769
Amount: 1.196421
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:02:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: BCS-09-65_(12-12.5)P Lab Sample ID: 460-271908-2

Matrix: Solid Lab File ID: PA230105A24.d

Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:15

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.10(g) Date Analyzed: 01/05/2023 17:57

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

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187284 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	0.036
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	0.053
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)	2.60	U	2.60	0.14
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.60	U	2.60	0.11
27619-97-2	6:2 FTS	2.60	U	2.60	0.074
39108-34-4	8:2 FTS	2.60	U	2.60	0.048

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: BCS-09-65_(12-12.5)P Lab Sample ID: 460-271908-2
 Matrix: Solid Lab File ID: PA230105A24.d
 Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:15
 Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24
 Sample wt/vol: 5.10(g) Date Analyzed: 01/05/2023 17:57
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	83		50-150
STL01892	13C4 PFHpA	83		50-150
STL00990	13C4 PFOA	88		50-150
STL00991	13C4 PFOS	76		50-150
STL00995	13C5 PFNA	89		50-150
STL00992	13C4 PFBA	75		50-150
STL00993	13C2 PFHxA	86		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	87		50-150
STL00998	13C2 PFDoA	84		50-150
STL01056	13C8 FOSA	69		50-150
STL01893	13C5 PFPeA	74		50-150
STL02116	13C2 PFTeDA	85		50-150
STL02118	d3-NMeFOSAA	78		50-150
STL02117	d5-NEtFOSAA	78		50-150
STL02279	M2-6:2 FTS	91		50-150
STL02280	M2-8:2 FTS	83		50-150
STL02337	13C3 PFBS	78		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
 Lims ID: 460-271908-A-2-A
 Client ID: BCS-09-65_(12-12.5)P
 Sample Type: Client
 Inject. Date: 05-Jan-2023 17:57:29 ALS Bottle#: 21 Worklist Smp#: 24
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271908-A-2-A
 Misc. Info.: 200-0053906-024 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:19:30 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 14:09:40

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	2.076	0.009	0.606	2625833	0.9428		75.4	7113	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.076	0.018	1.004	77397	0.0357			5.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.694	1969157	0.9284		74.3	2670	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.387	2.387	0.0	1.000	27299	0.0159			0.7	
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.698	2094997	0.9091		78.2	128625	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4449	0.002158	Target=2.09		3.1	M
298.90 > 99.00	2.400	2.400	0.0	1.000	2004		2.22(1.04-3.13)		0.8	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.793	2399296	1.08		86.4	2824	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	17285	0.008265	Target=14.25		2.4	M
313.00 > 119.00	2.725	2.725	0.0	1.000	2304		7.50(7.12-21.37)		3.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.898	1648473	0.9819		83.0	5751	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	6553	0.004165	Target=3.66		14.0	M
399.00 > 99.00	3.088	3.088	0.0	1.000	1778		3.69(1.83-5.49)		2.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.898	2361030	1.03		82.6	3299	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.088	3.099	-0.011	1.000	6322	0.003074	Target=3.97		1.2	
363.00 > 169.00	3.099	3.099	0.0	1.004	2476		2.55(1.98-5.95)		3.8	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	3.430	3.439	-0.009	0.997	305062	1.08		91.3	589	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.003	717	-0.0106			0.7	
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.448	-0.009	1.000	2813616	1.09		87.6	6743	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.448	-0.009		3103617	1.25			4735	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.439	3.448	-0.009	1.000	9964	0.004141	Target=2.79		0.8	RM
413.00 > 169.00	3.439	3.448	-0.009	1.000	1899		5.25(1.40-4.19)		1.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.092	1038450	0.9116		76.3	1981	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.754	3.764	-0.010	1.000	6715	0.006354	Target=5.11		5.9	RM
499.00 > 99.00	3.596	3.764	-0.168	0.958	3156		2.13(2.55-7.66)		5.1	M
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.773	3.783	-0.010	1.000	2887	0.001246	Target=8.55		0.7	RM
463.00 > 169.00	3.783	3.783	0.0	1.003	225		12.83(4.28-12.83)		2.0	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.097	2792001	1.12		89.4	6231	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	2821185	1.11		88.7	5504	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	342870	1.00		83.2	958	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.081	4.093	-0.012	1.000	500	0.001080			5.4	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.138	4.150	-0.012	1.000	1951	0.001299			3.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.203	1797479	0.8615		68.9	2547	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.217	4.228	-0.011	1.226	506670	0.9778		78.2	1986	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.217	4.228	-0.011	1.000	803	-0.009324			2.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	2544493	1.09		87.4	4886	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.353	4.365	-0.012	1.000	1202	0.003370			8.0	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.266	497975	0.9760		78.1	1106	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.580	4.591	-0.011	1.000	2517	0.001189	Target=7.77		0.4	RM
613.00 > 169.00	4.580	4.591	-0.011	1.000	673		3.74(3.89-11.66)		5.0	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	2496960	1.05		84.1	4194	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.992	5.012	-0.020	1.002	797	0.003349	Target=0.89		9.5	RM
713.00 > 219.00	4.972	5.012	-0.040	0.998	332		2.40(0.44-1.33)		6.9	M

D 43 13C2 PFTeDA

715.00 > 670.00	4.982	5.012	-0.030	1.449	2173192	1.06		84.7	6336	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d

Injection Date: 05-Jan-2023 17:57:29

Instrument ID: LC812

Lims ID: 460-271908-A-2-A

Lab Sample ID: 200-271908-2

Client ID: BCS-09-65_(12-12.5)P

Operator ID: lc812tech

ALS Bottle#: 21

Worklist Smp#: 24

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

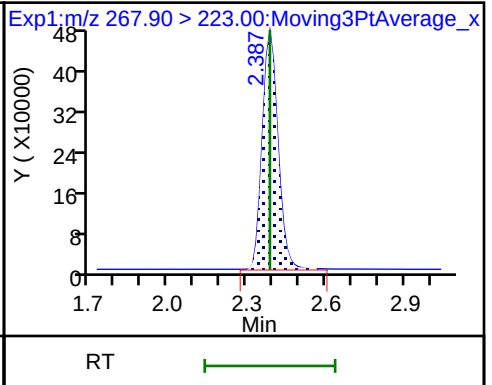
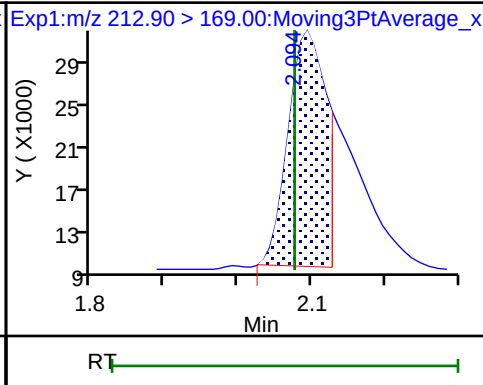
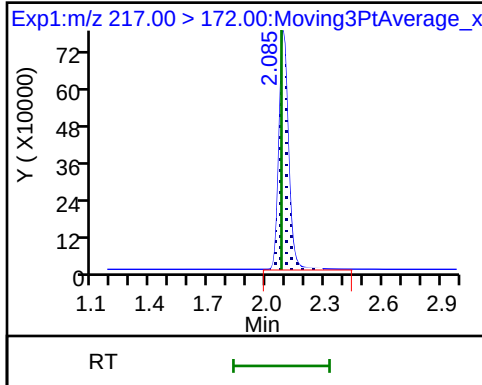
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

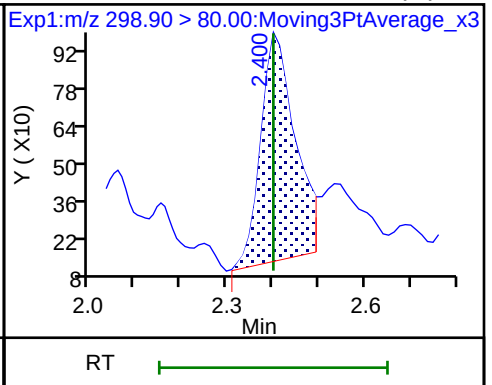
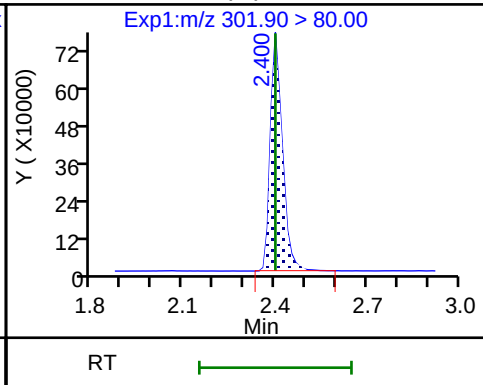
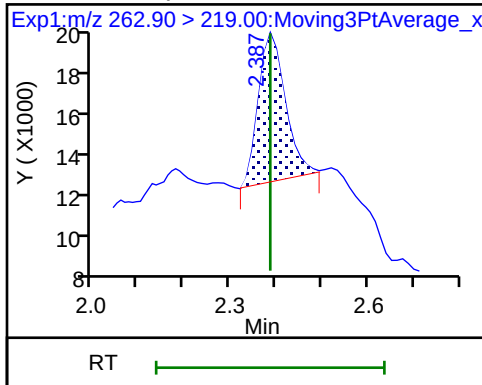
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

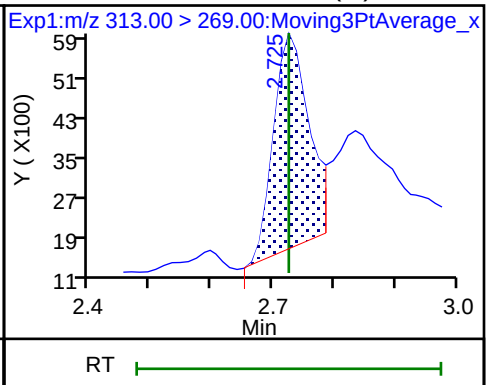
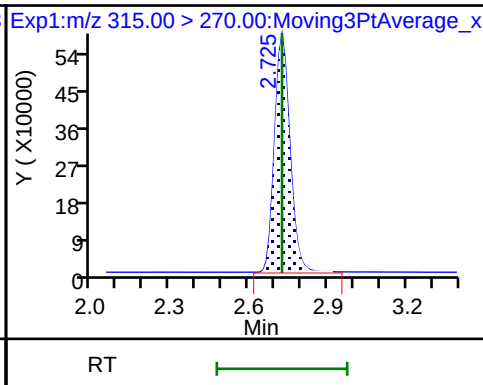
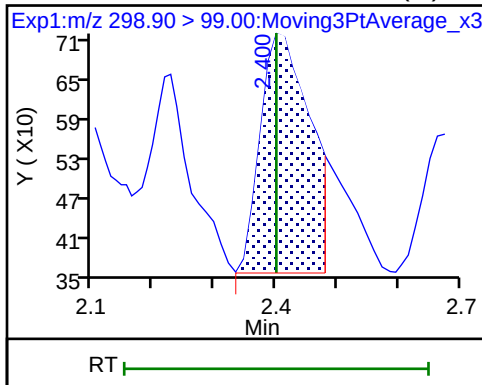
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

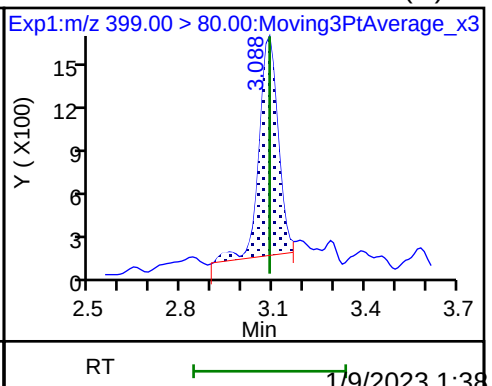
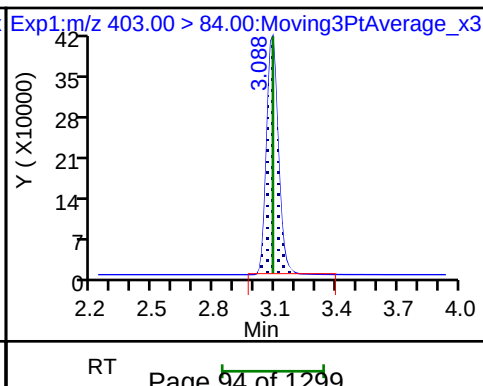
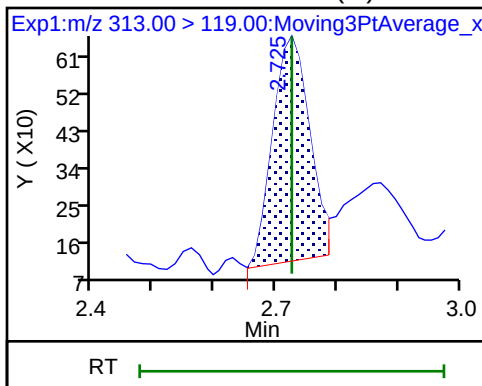
6 Perfluorohexanoic acid (M)

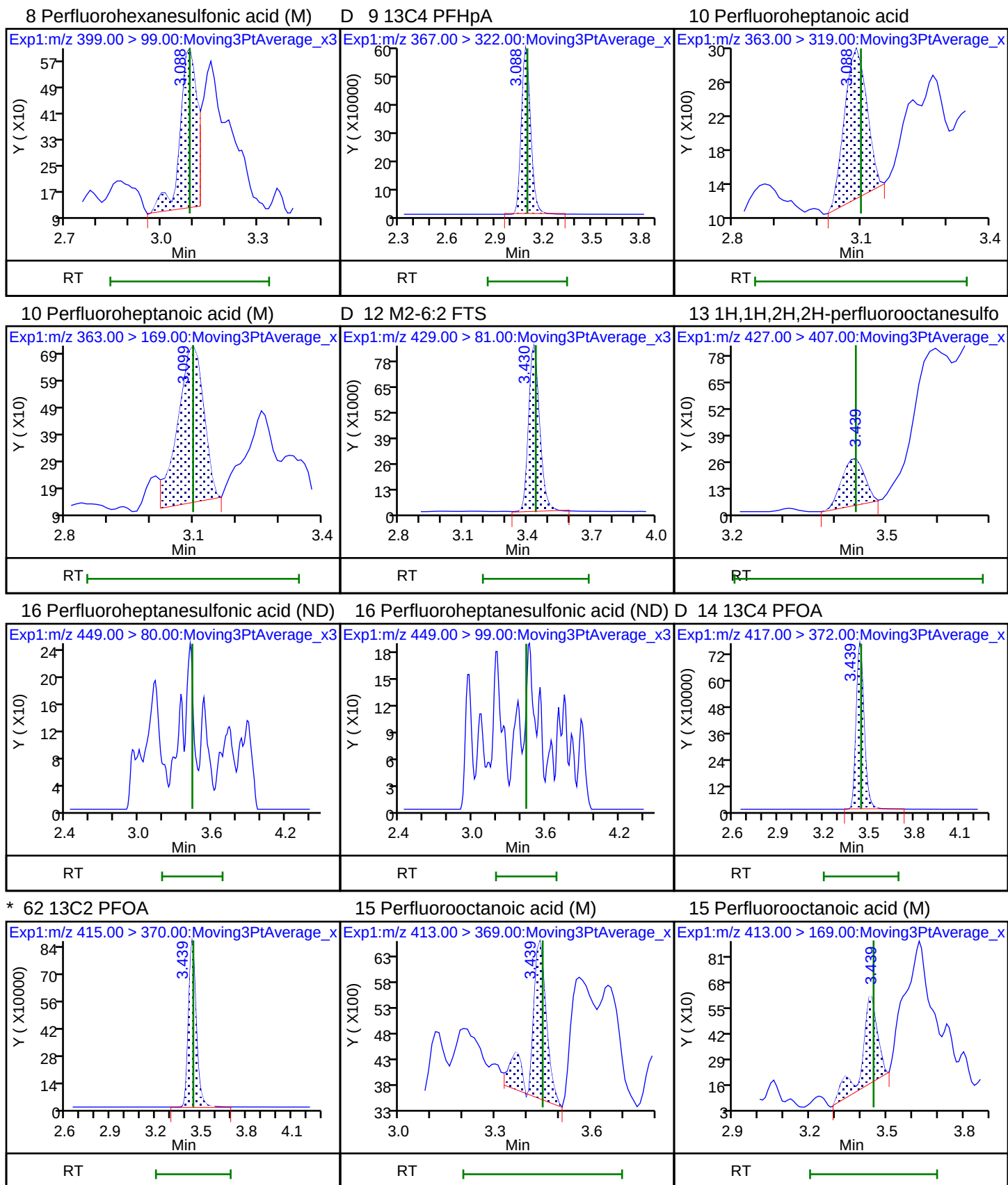


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

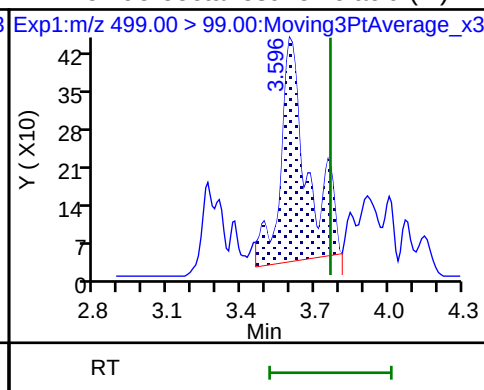
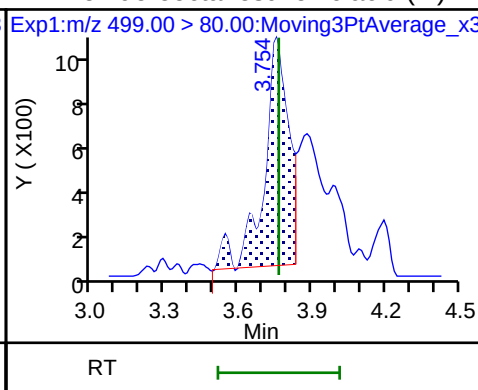
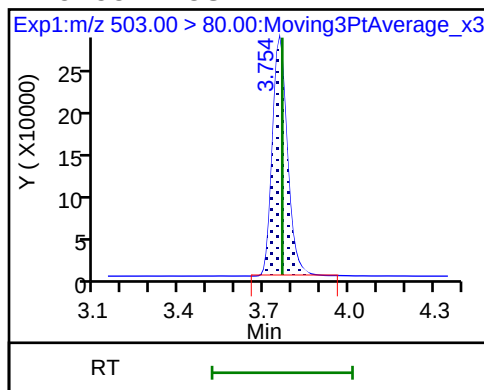




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

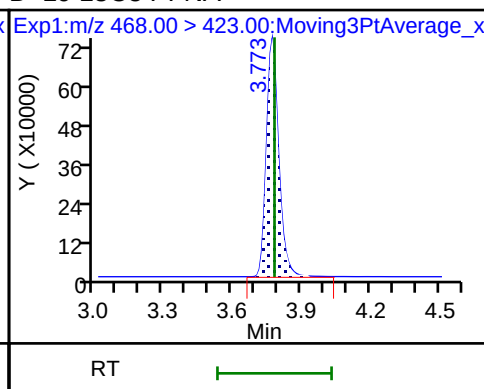
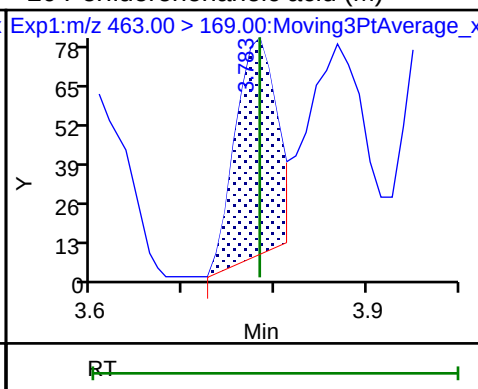
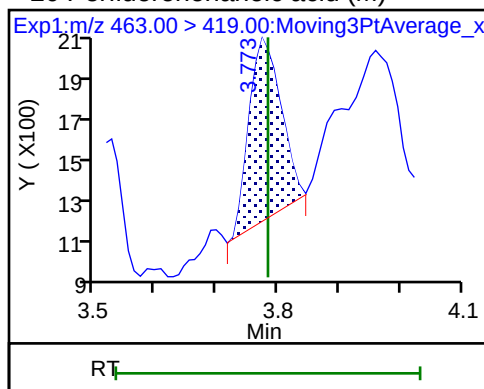
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

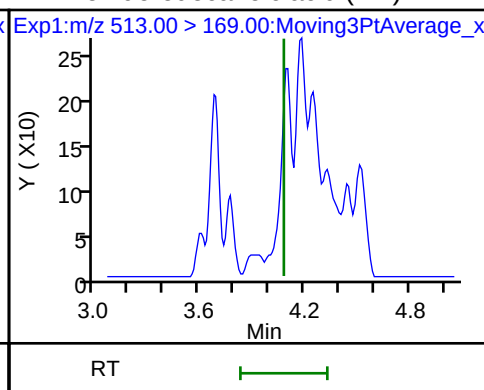
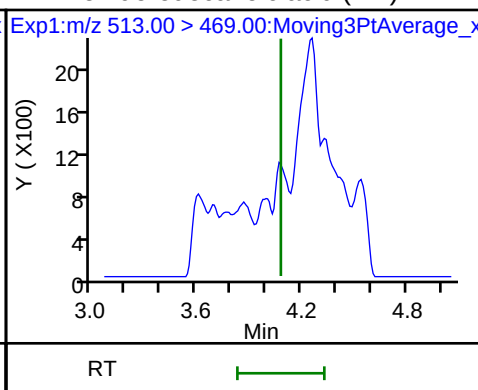
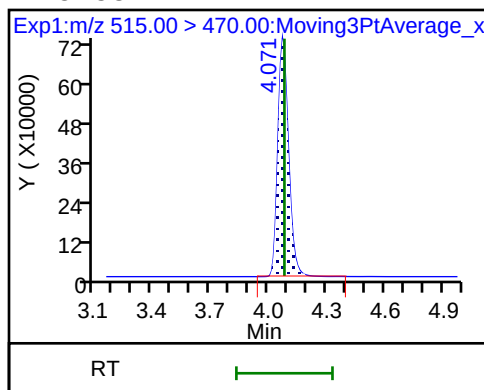
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

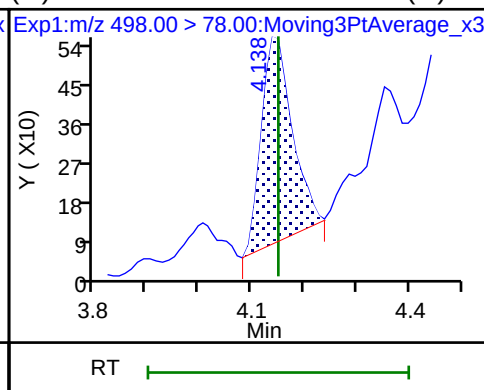
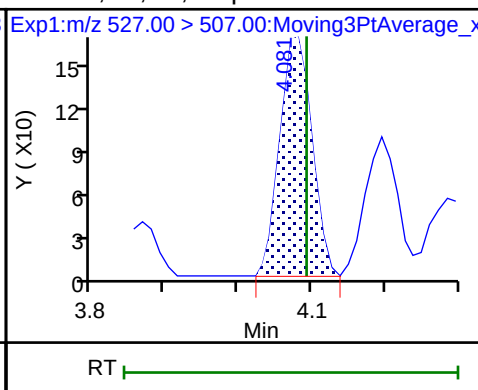
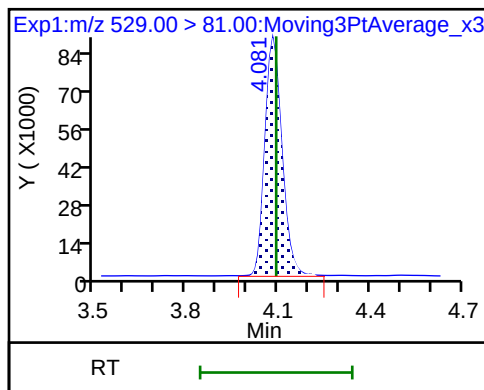
24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

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

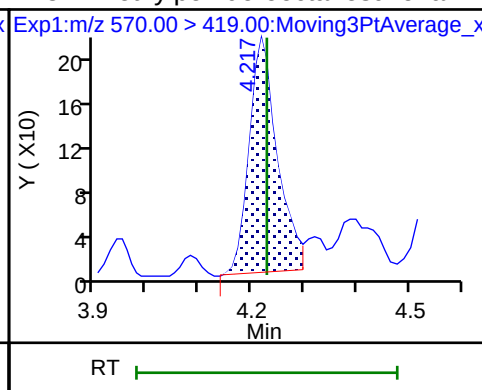
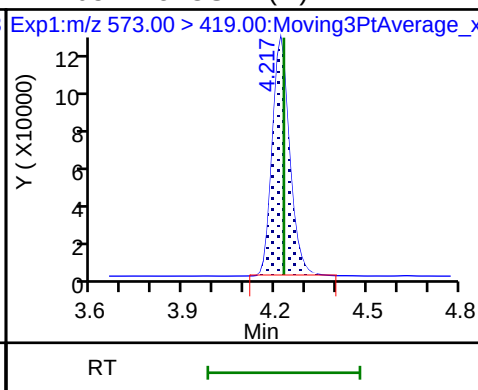
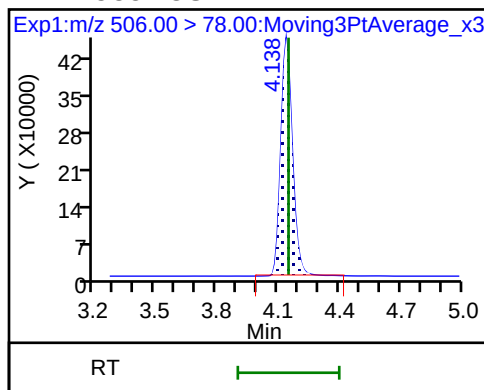
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA (M)

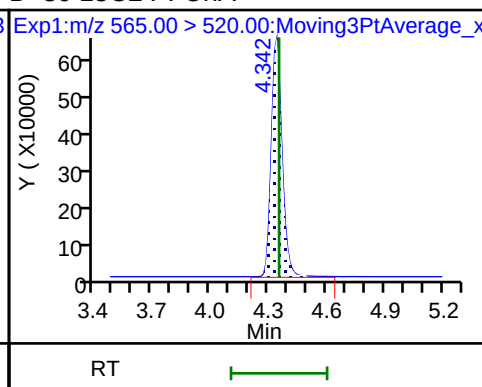
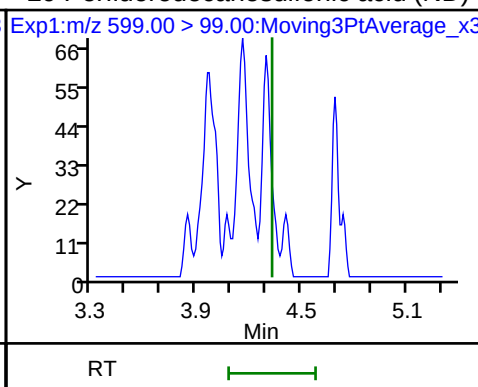
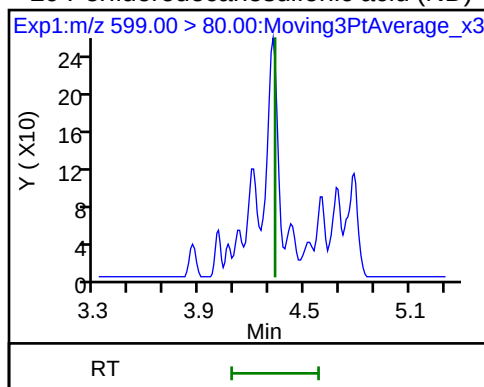
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

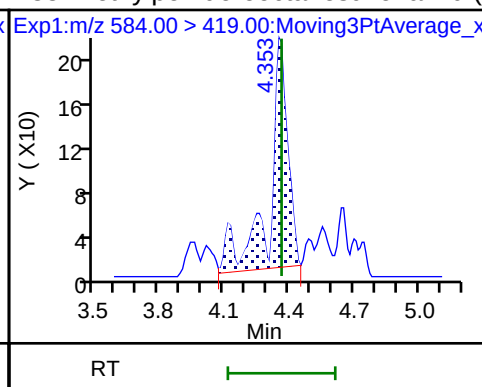
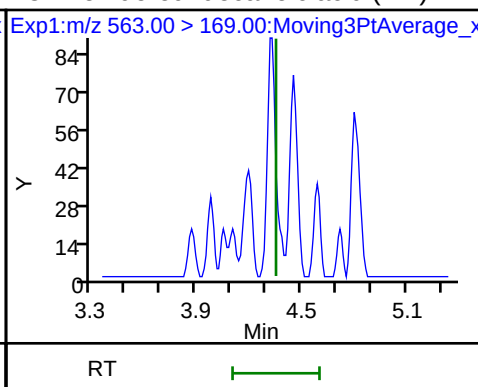
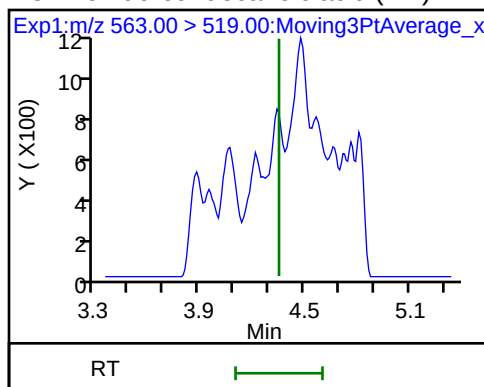
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

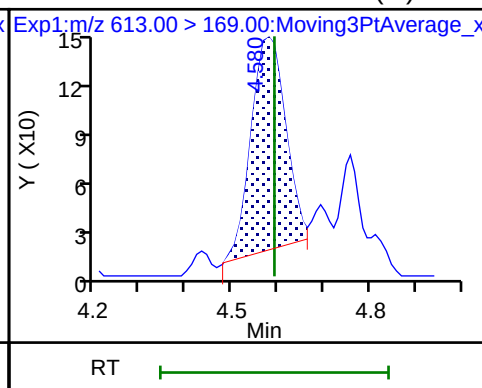
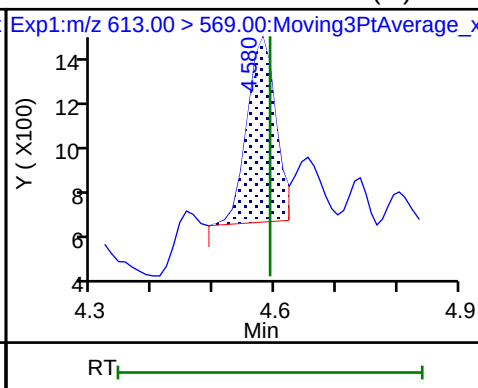
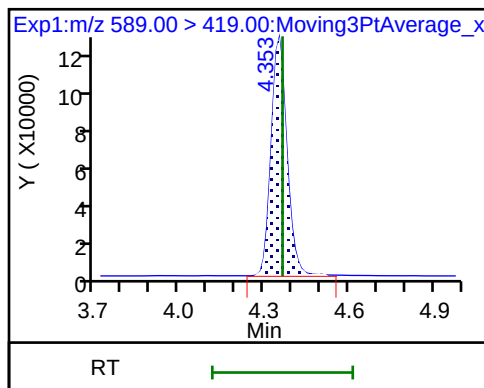
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

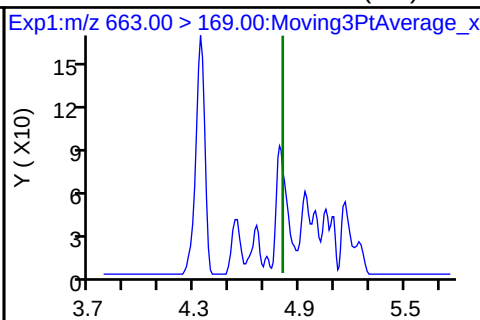
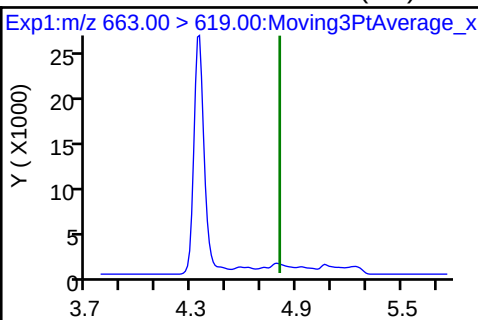
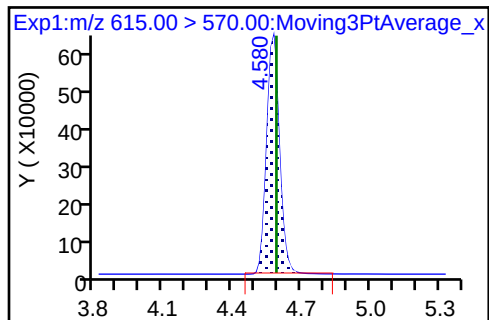
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (ND)

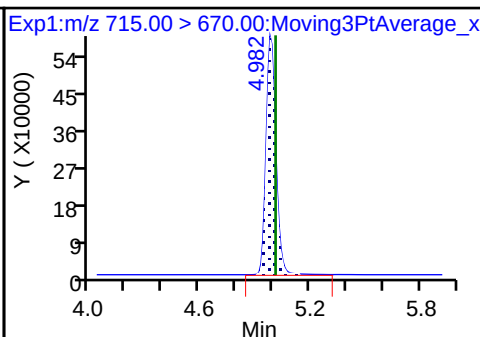
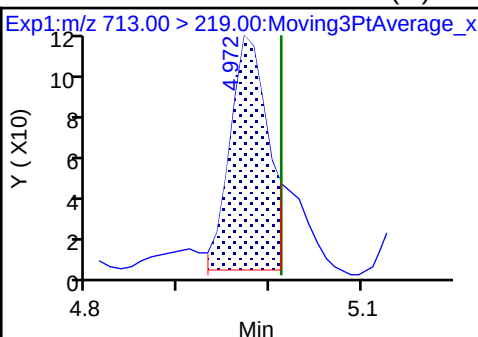
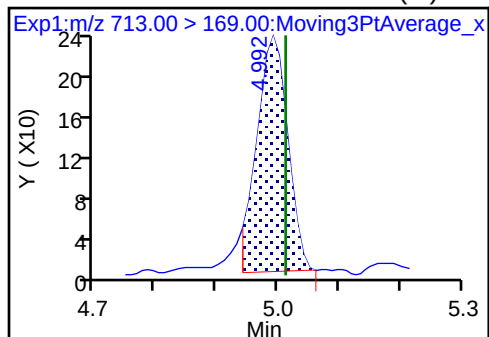
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

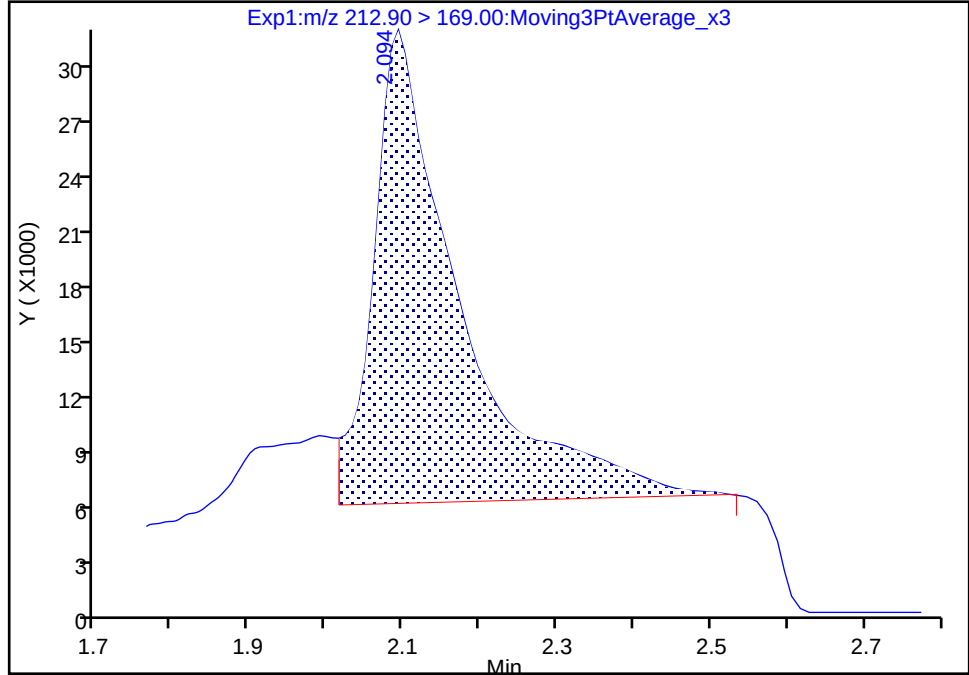
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Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

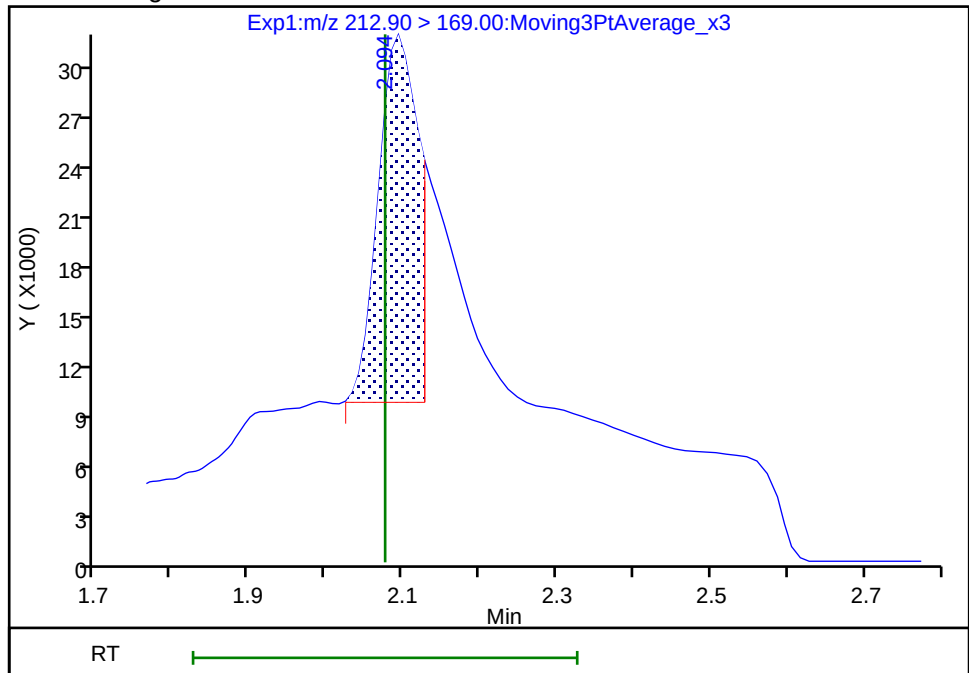
RT: 2.09
Area: 198794
Amount: 0.091771
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 77397
Amount: 0.035729
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:06:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 99 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

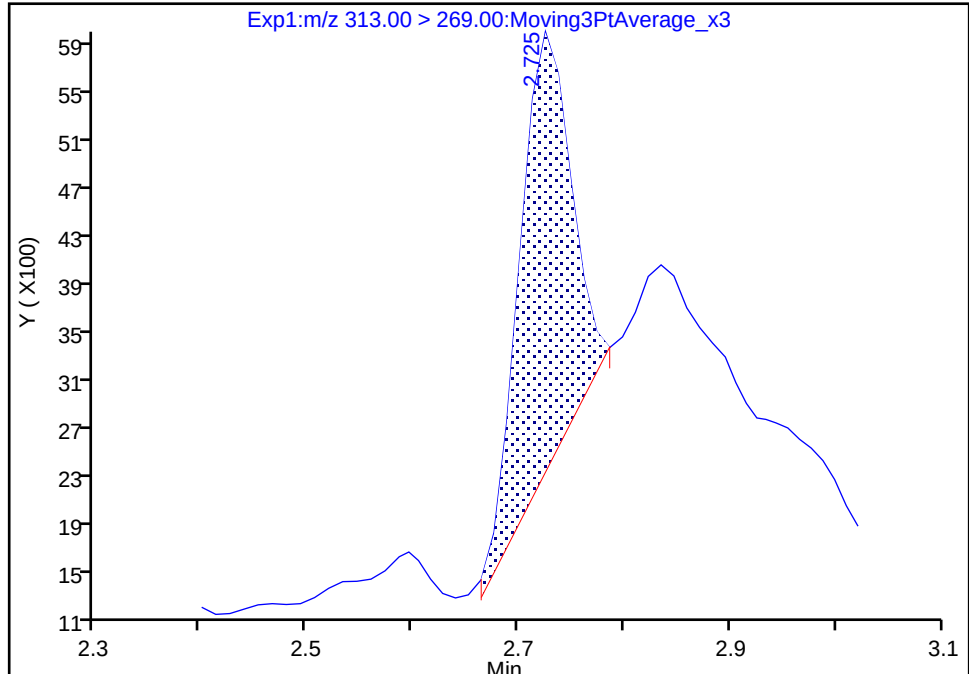
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

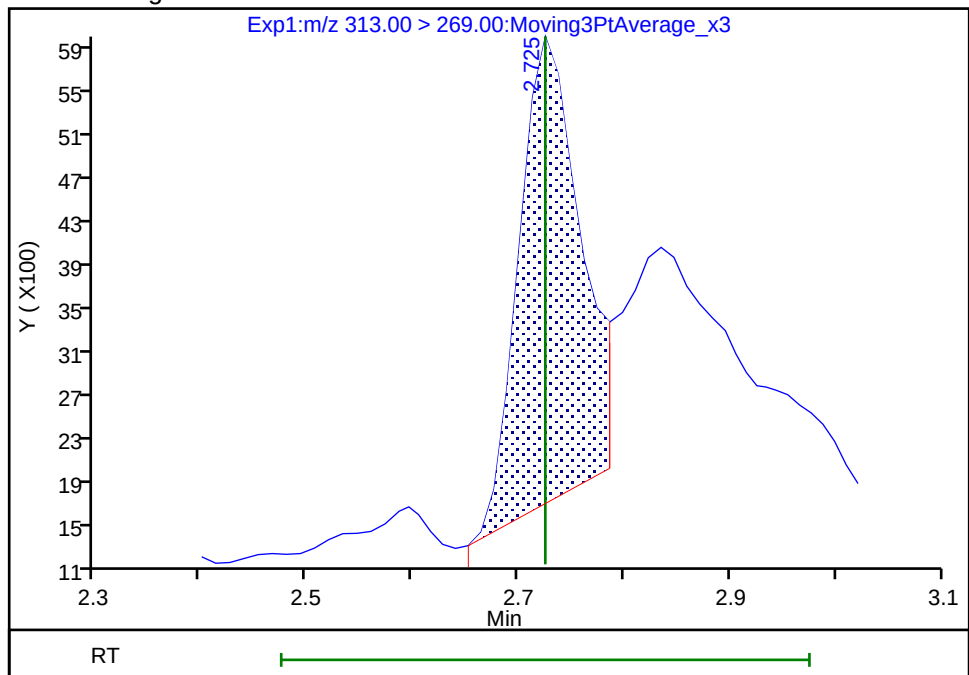
RT: 2.73
Area: 12616
Amount: 0.006032
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 17285
Amount: 0.008265
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:06:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

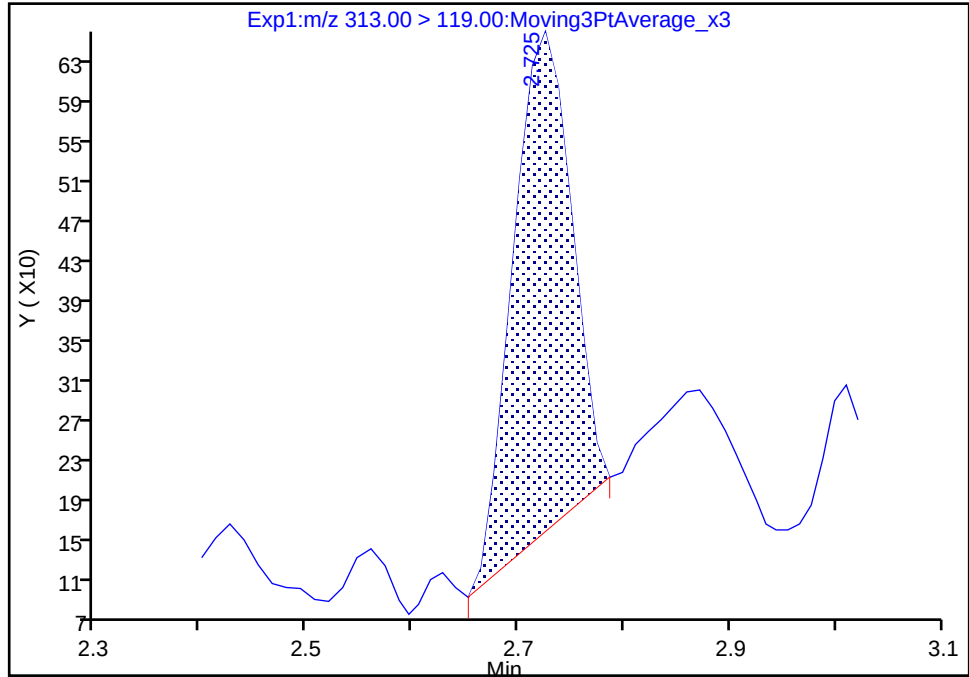
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

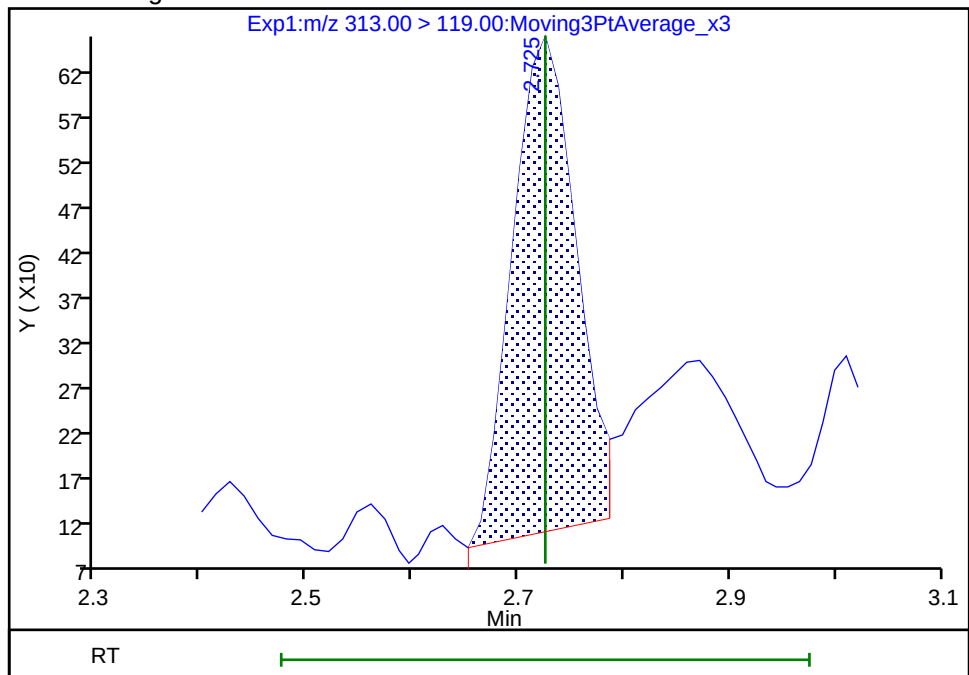
RT: 2.73
Area: 1947
Amount: 0.006032
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 2304
Amount: 0.008265
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:06:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

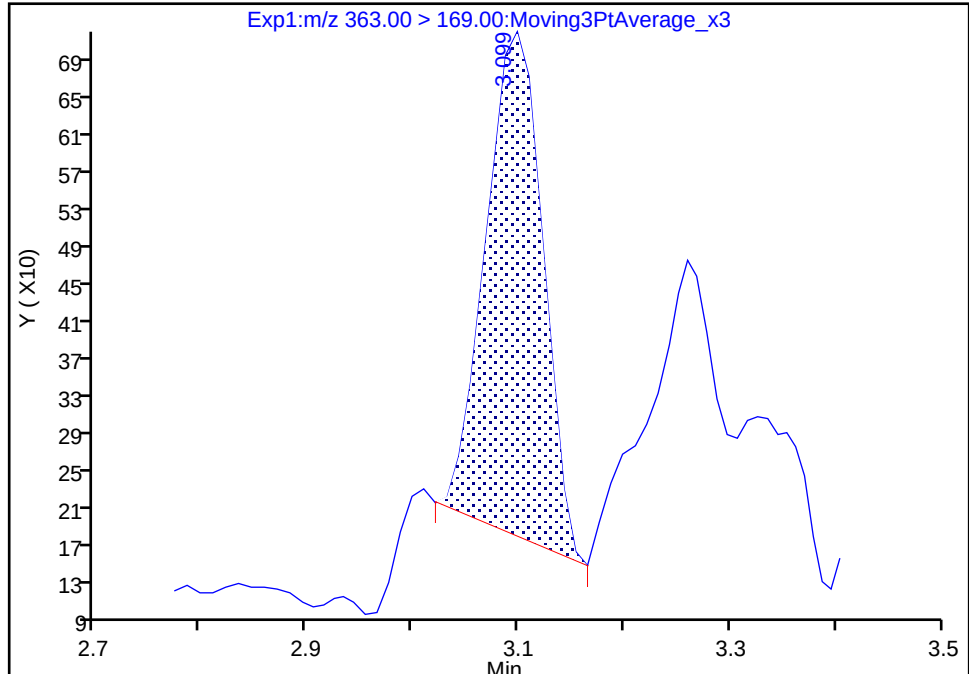
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection 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

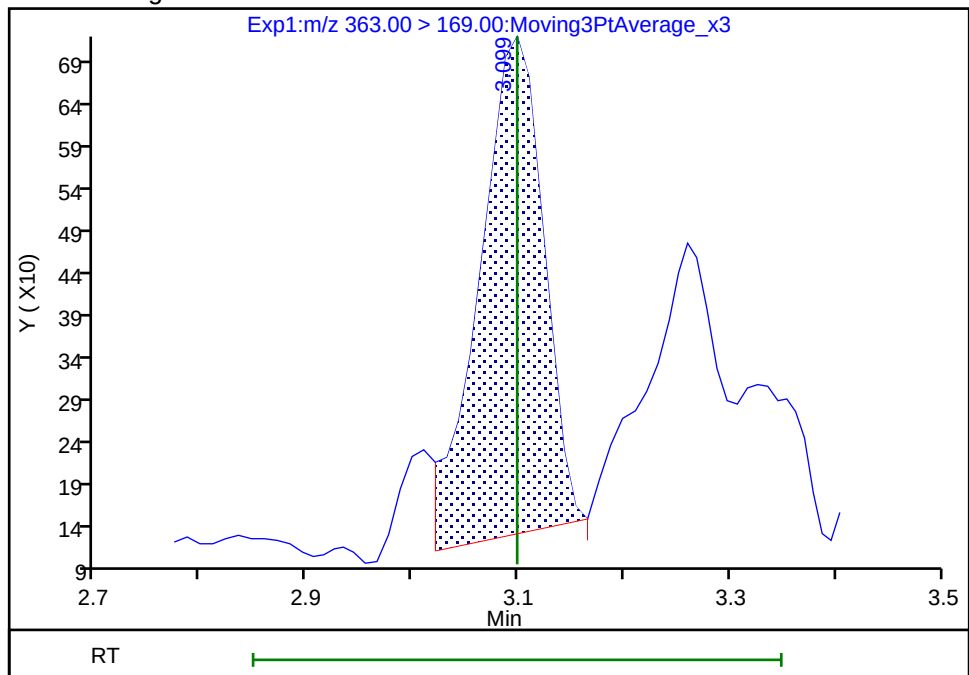
RT: 3.10
Area: 2026
Amount: 0.003074
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 2476
Amount: 0.003074
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:07:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

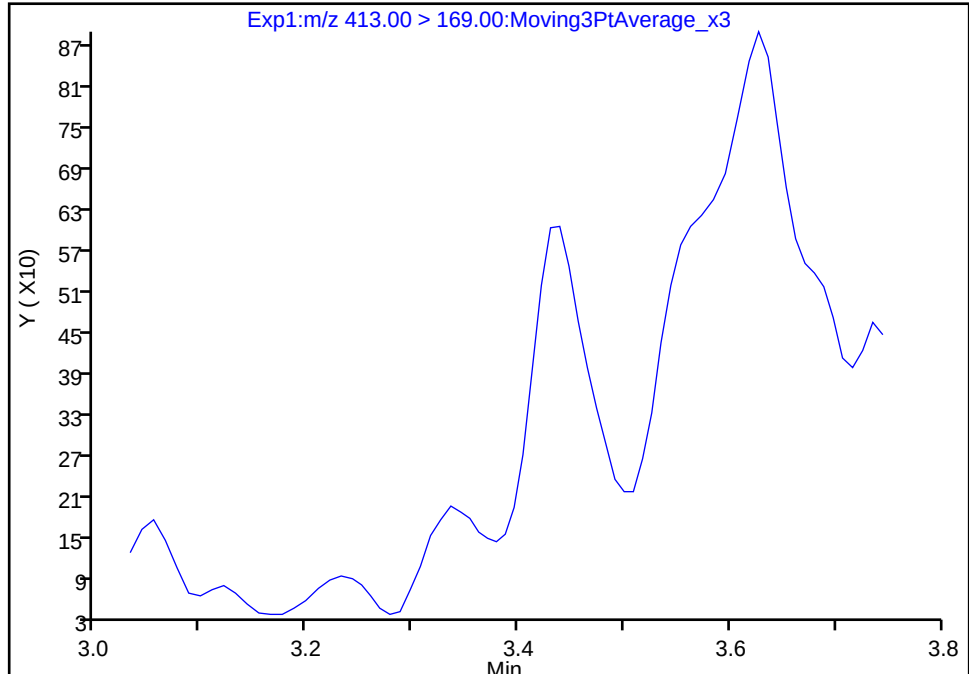
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

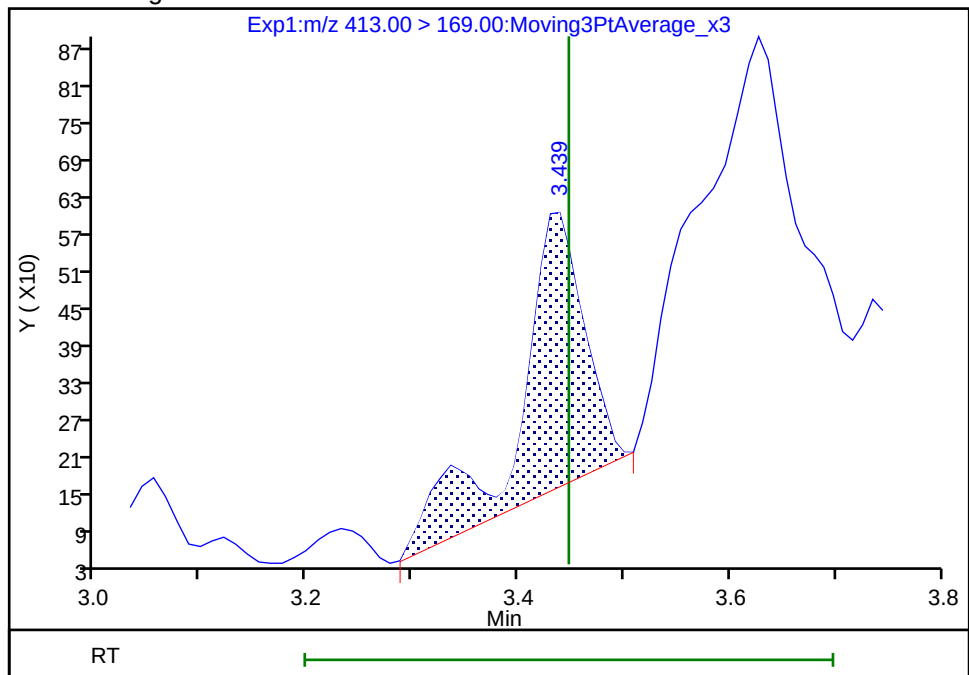
Signal: 2

Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.44
Area: 1899
Amount: 0.004141
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:07:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

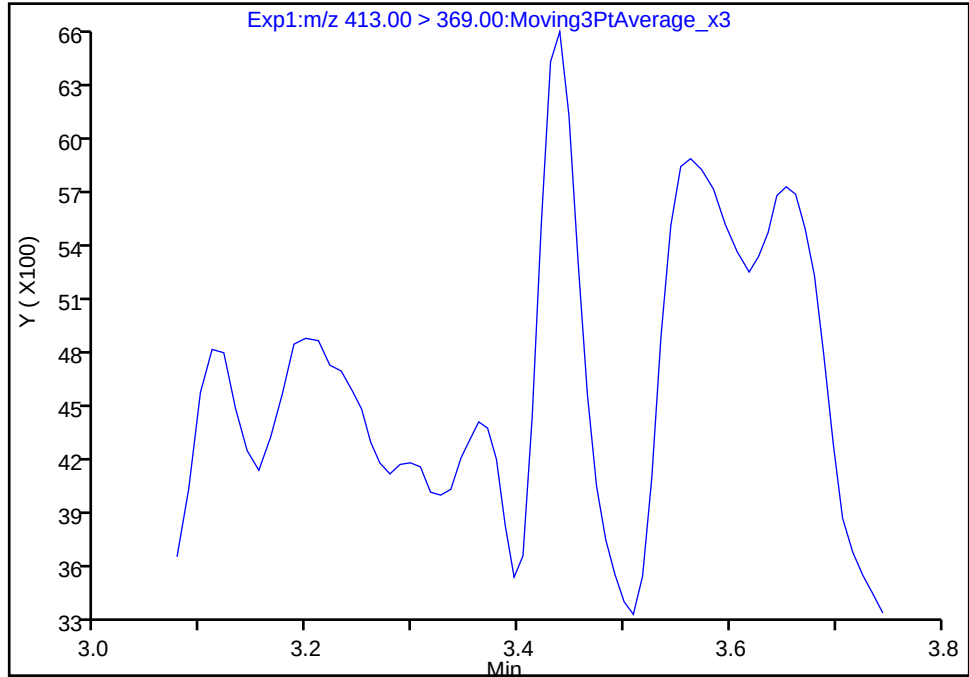
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

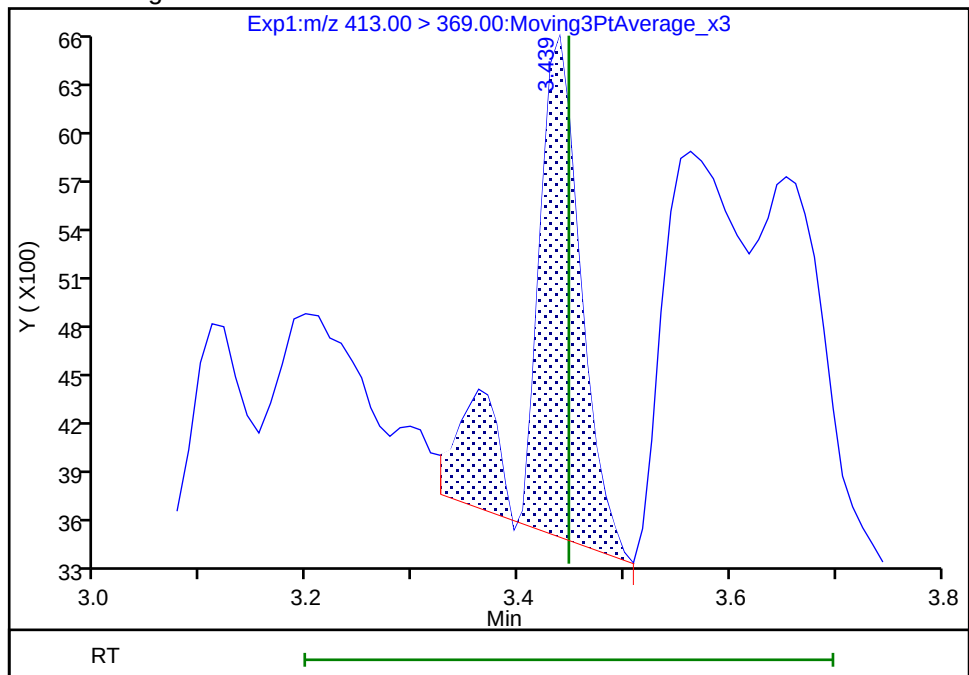
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 9964
Amount: 0.004141
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:07:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

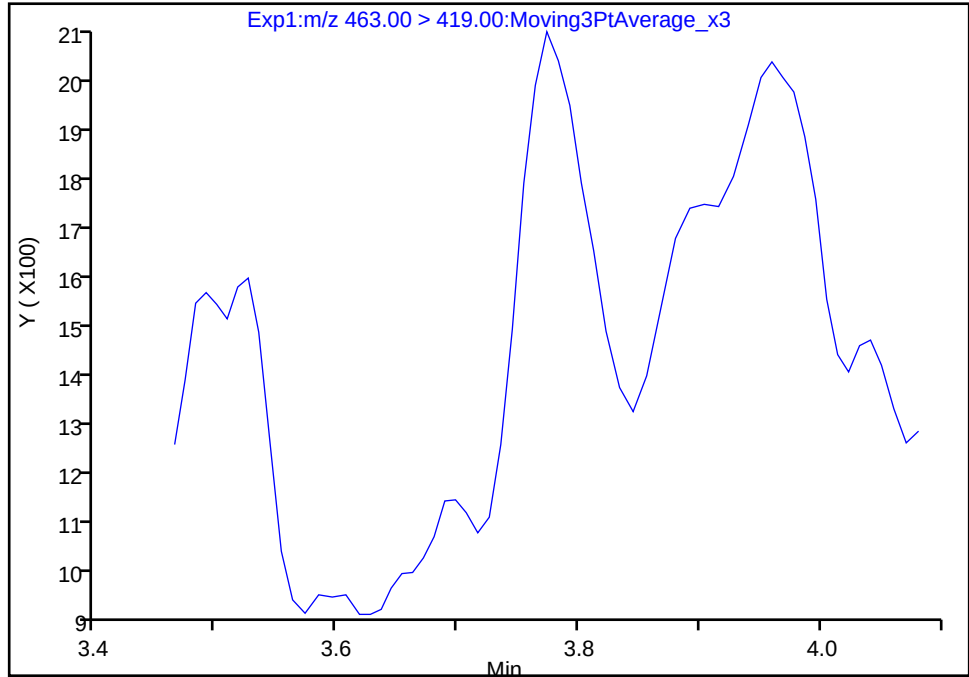
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

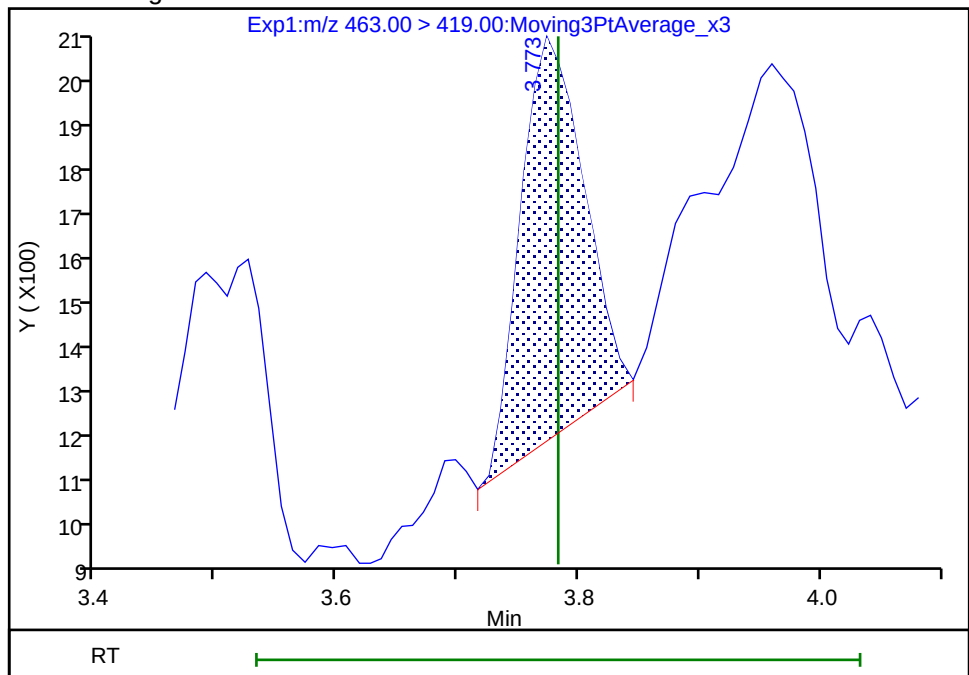
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.77
Area: 2887
Amount: 0.001246
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:08:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

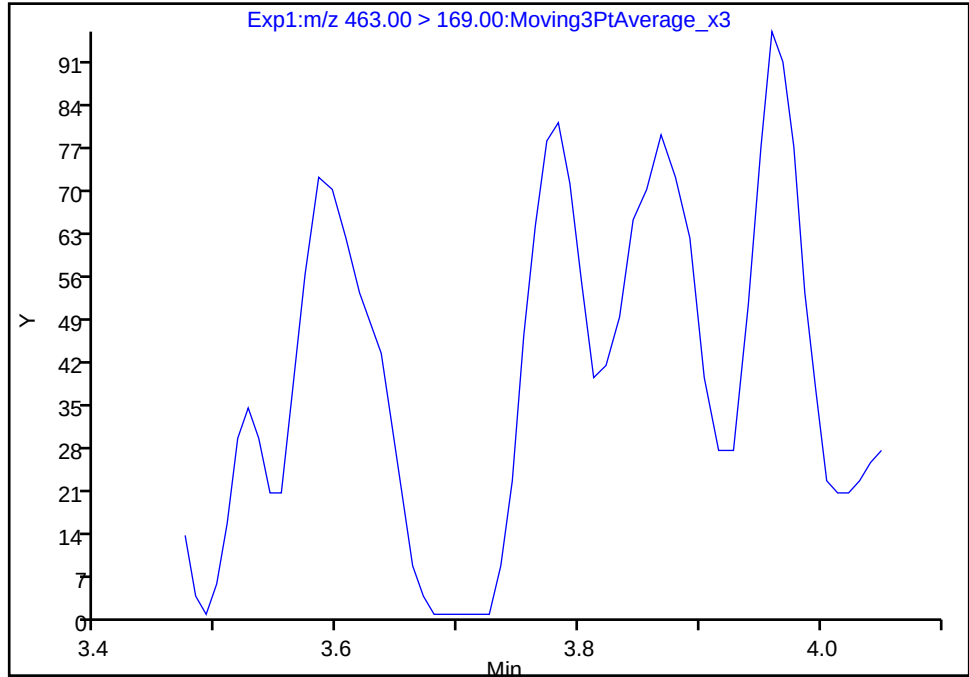
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

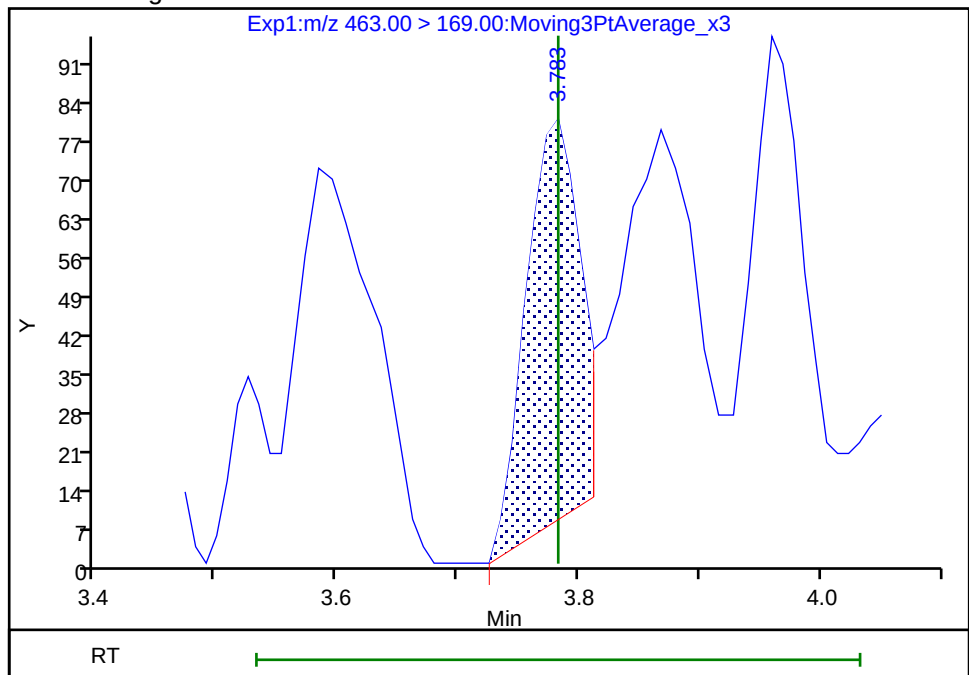
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 225
Amount: 0.001246
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:08:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

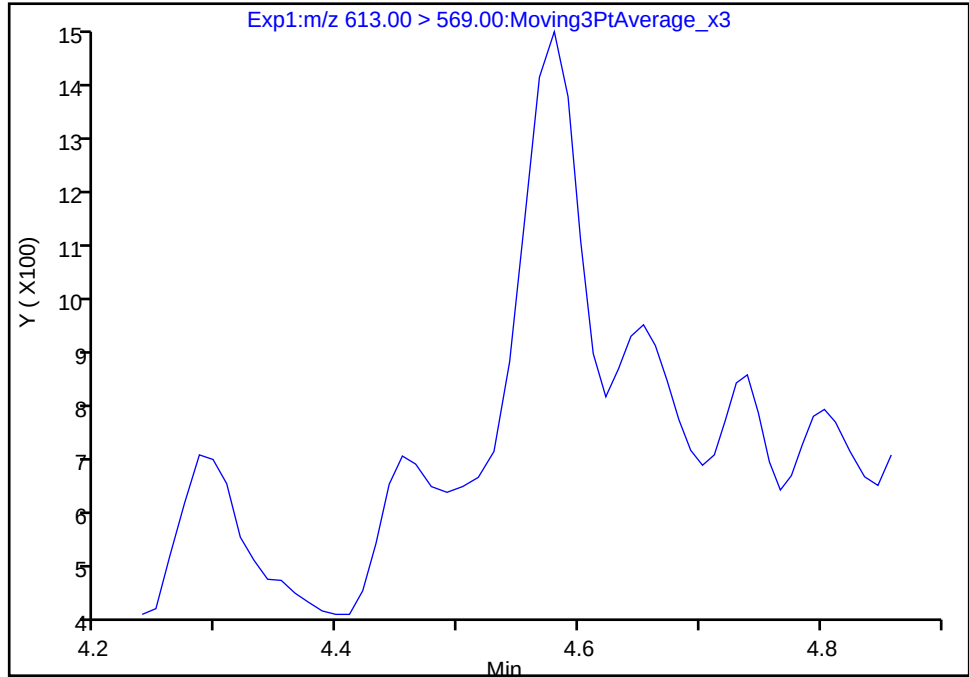
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

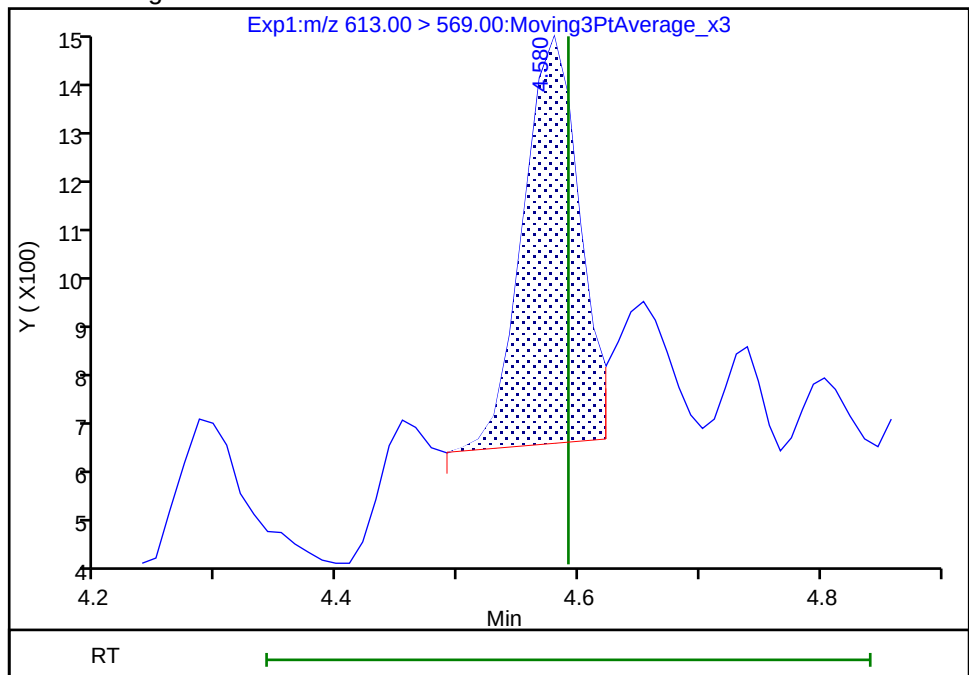
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 2517
Amount: 0.001189
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:09:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

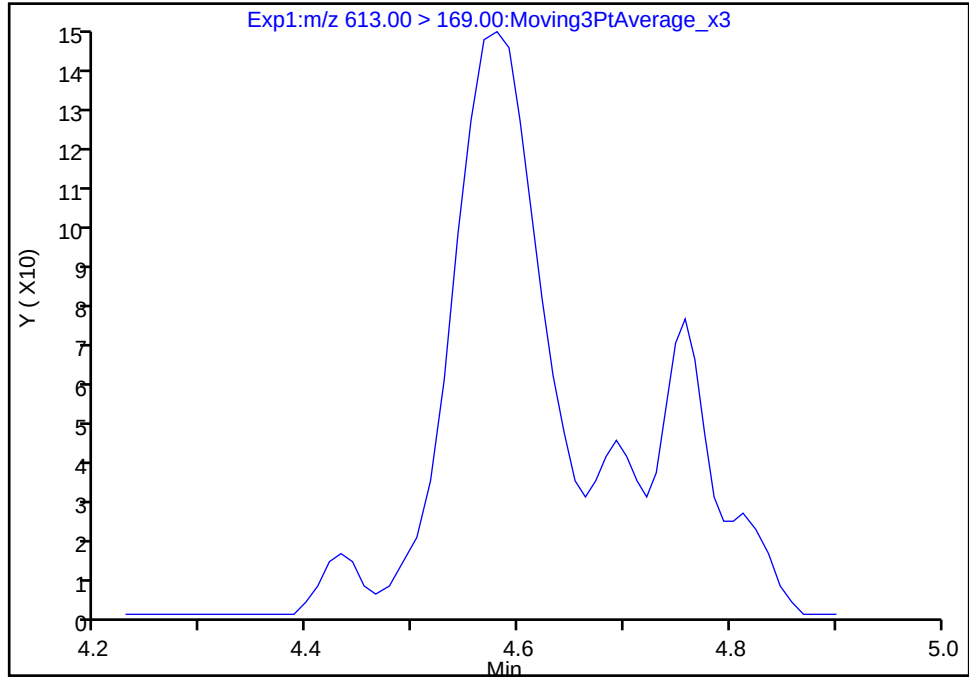
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

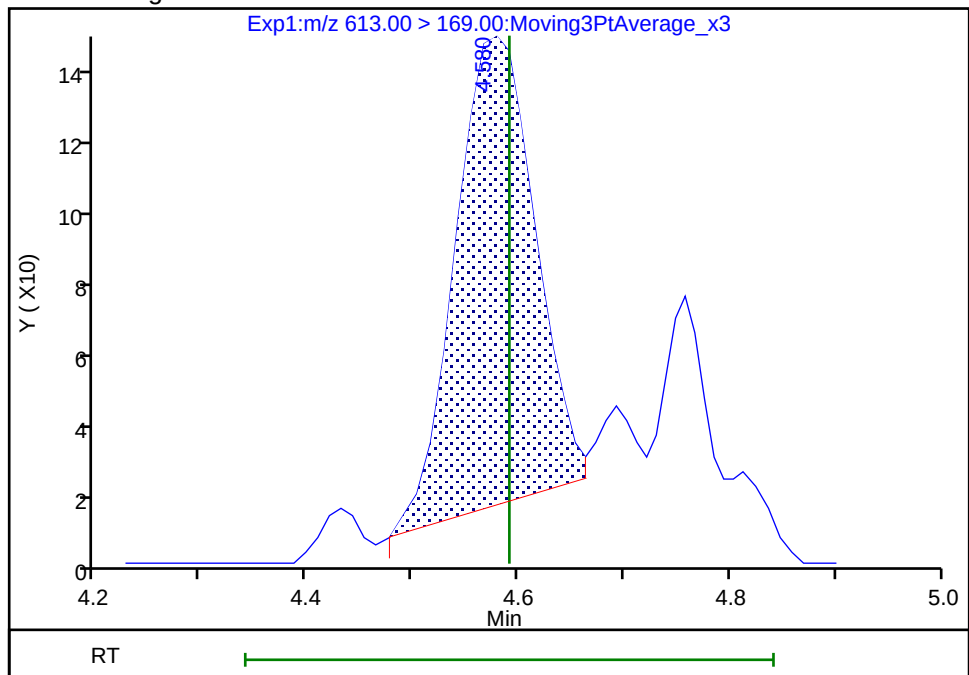
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 673
Amount: 0.001189
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:09:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

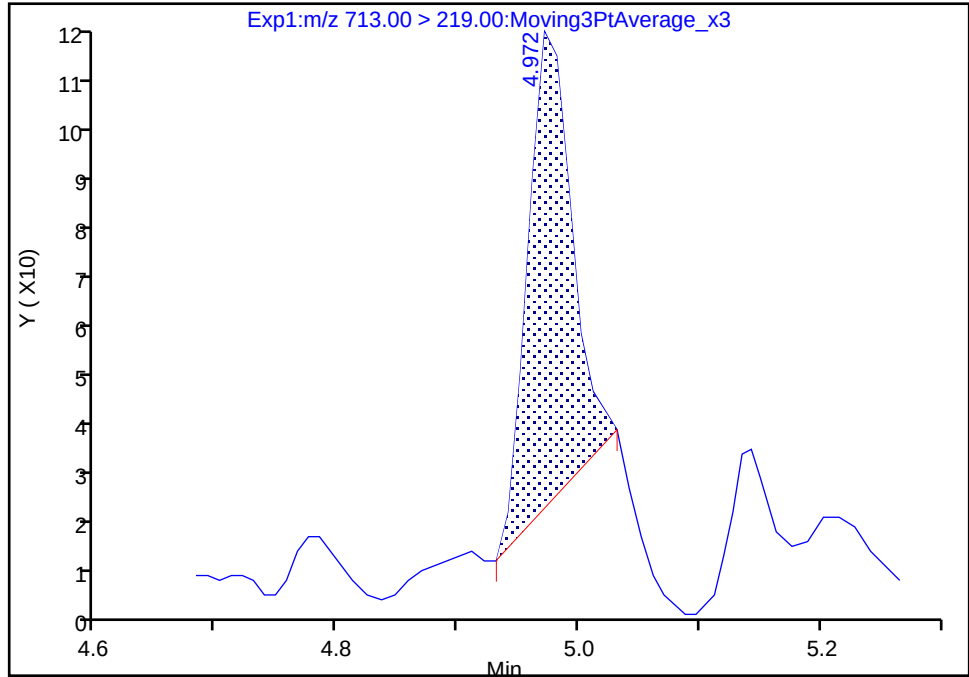
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

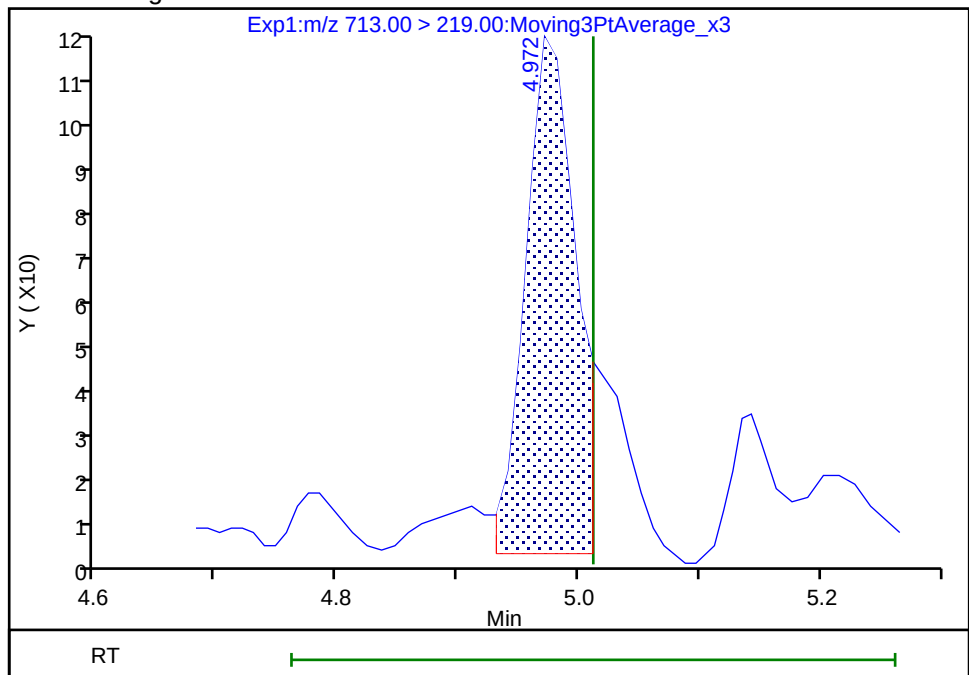
RT: 4.97
Area: 245
Amount: 0.003407
Amount Units: ng/ml

Processing Integration Results



RT: 4.97
Area: 332
Amount: 0.003349
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 10:02:58
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

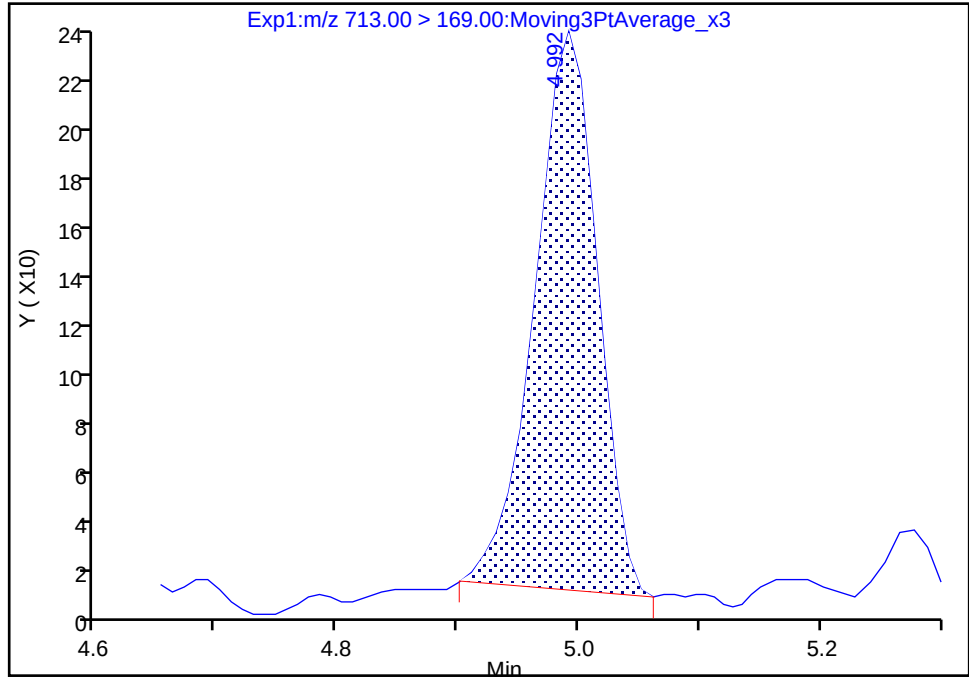
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

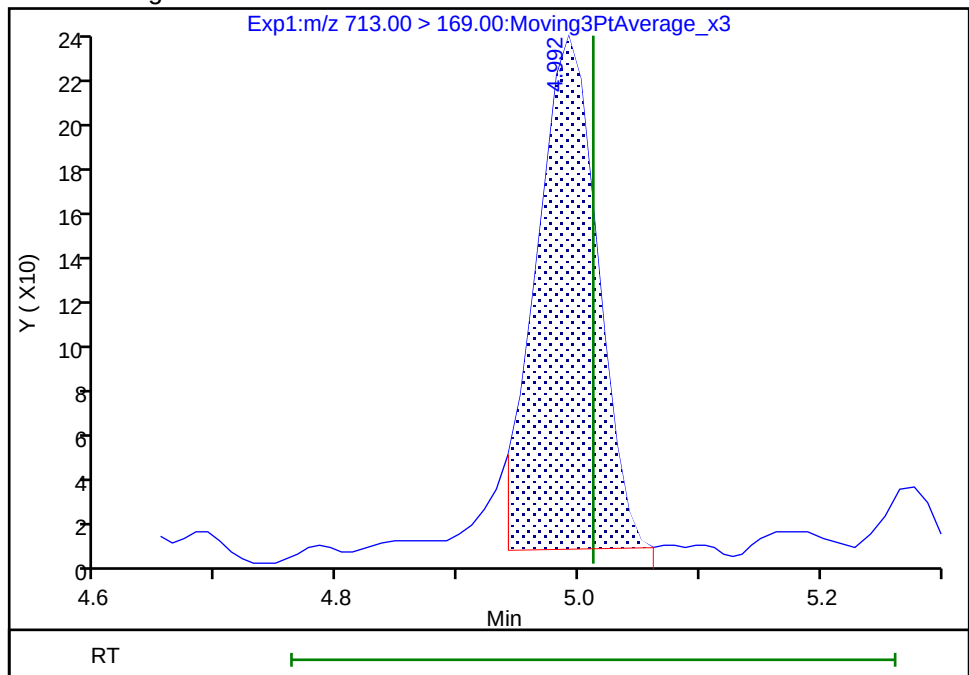
RT: 4.99
Area: 811
Amount: 0.003407
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 797
Amount: 0.003349
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 10:03:02

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

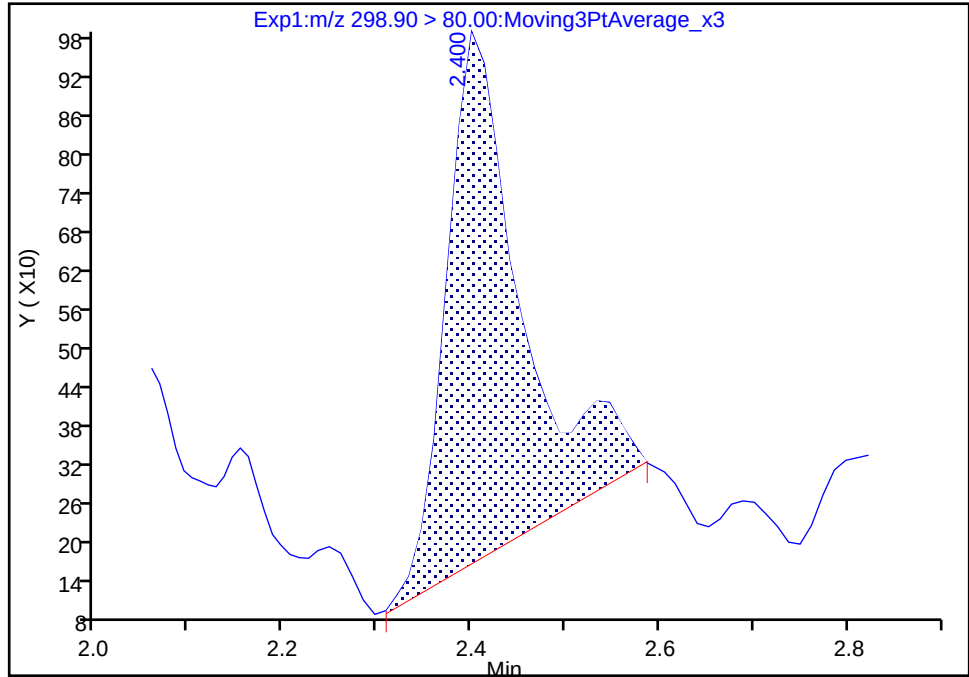
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection 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

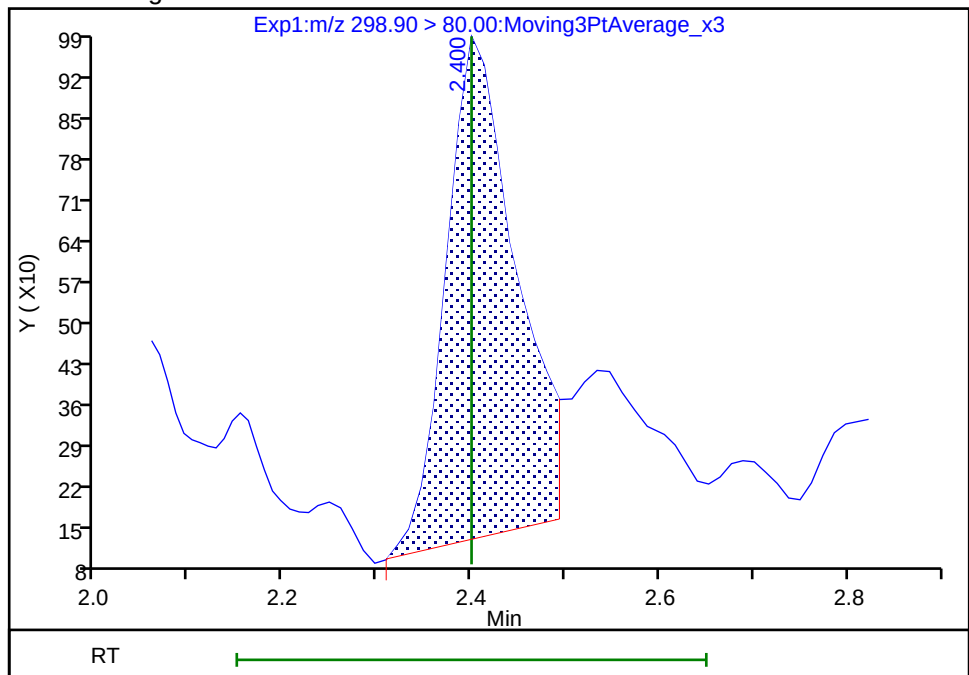
RT: 2.40
Area: 4589
Amount: 0.002226
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4449
Amount: 0.002158
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:06:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

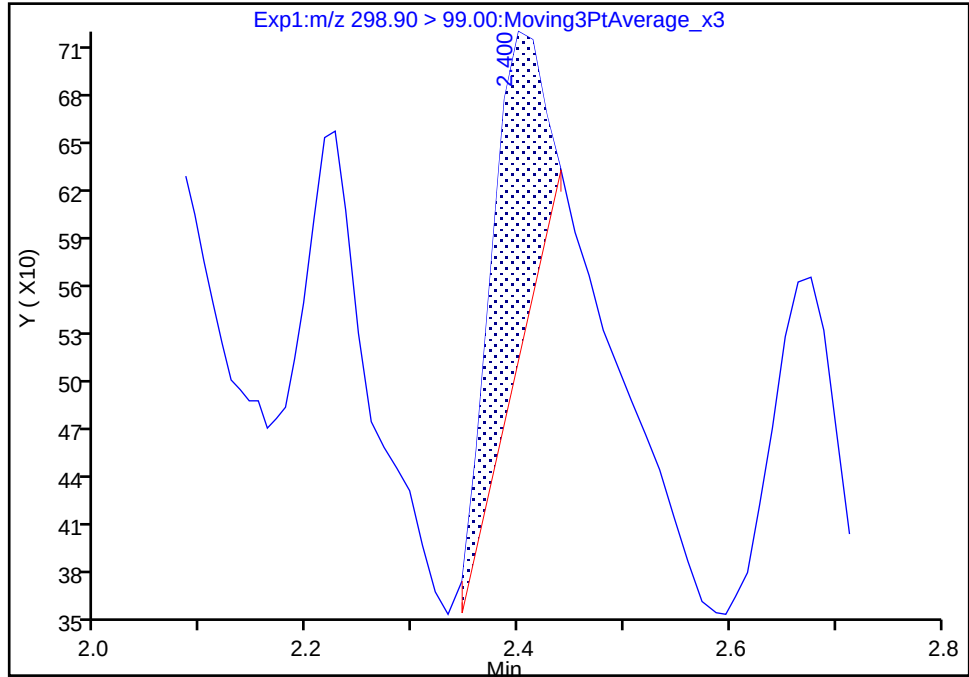
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul 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

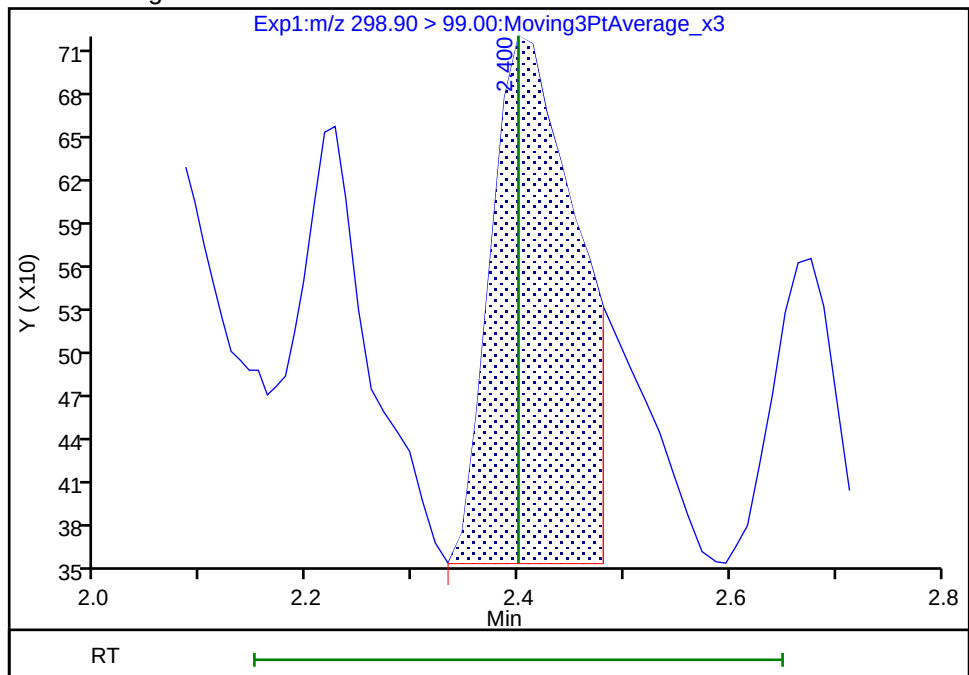
RT: 2.40
Area: 677
Amount: 0.002226
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2004
Amount: 0.002158
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:06:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

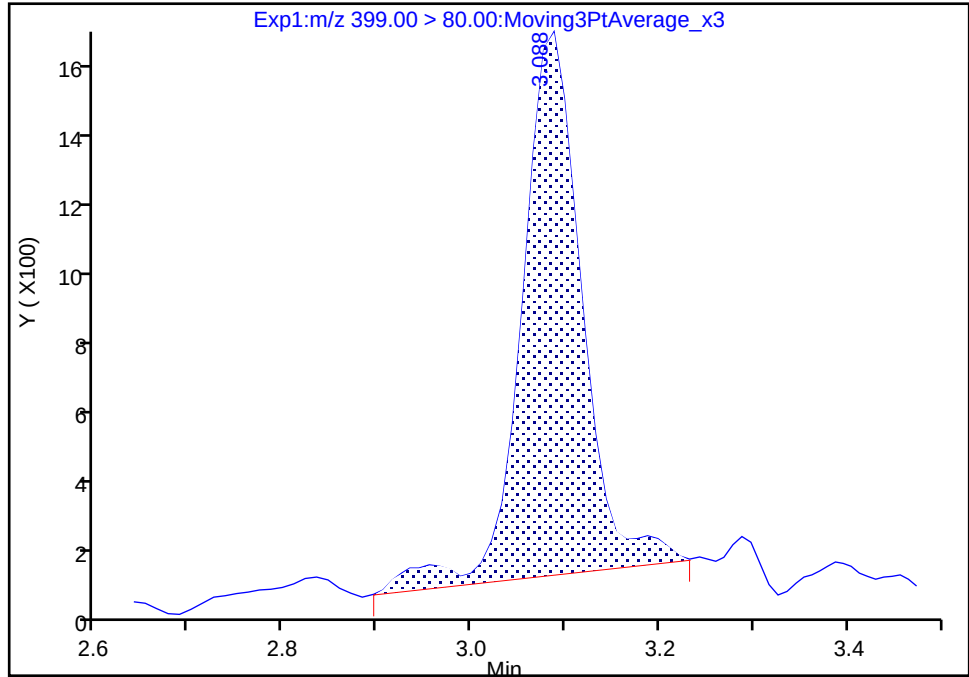
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection 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

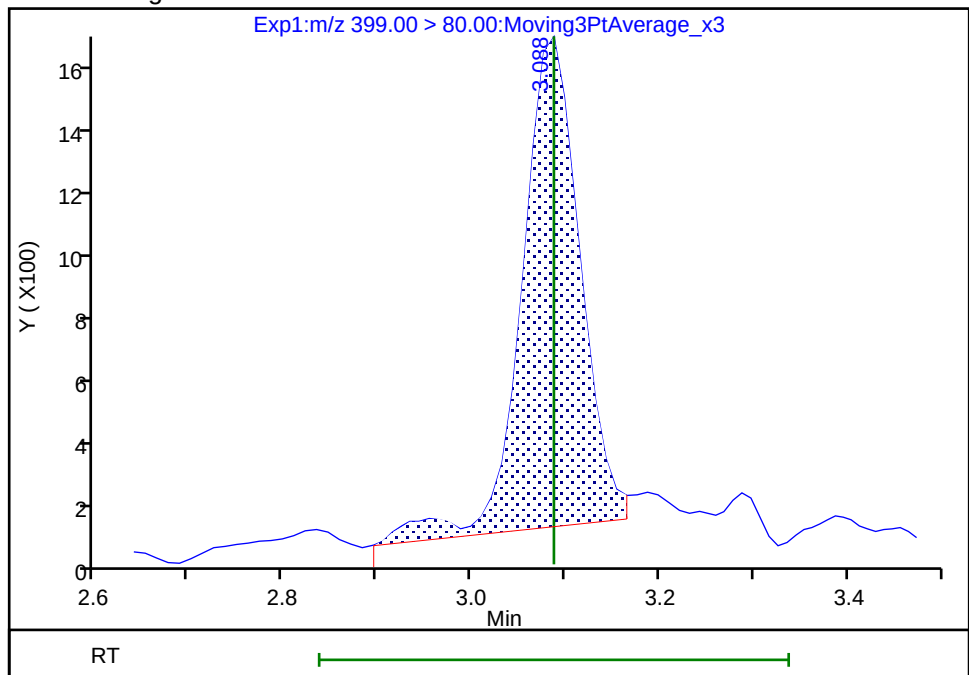
RT: 3.09
Area: 6747
Amount: 0.004288
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 6553
Amount: 0.004165
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:06:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

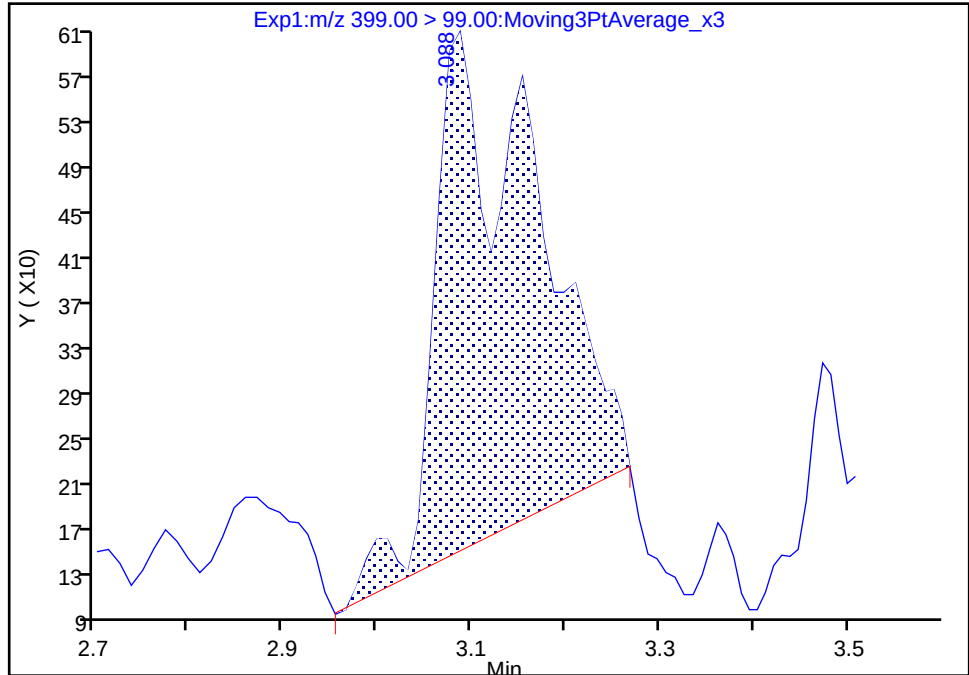
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul 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

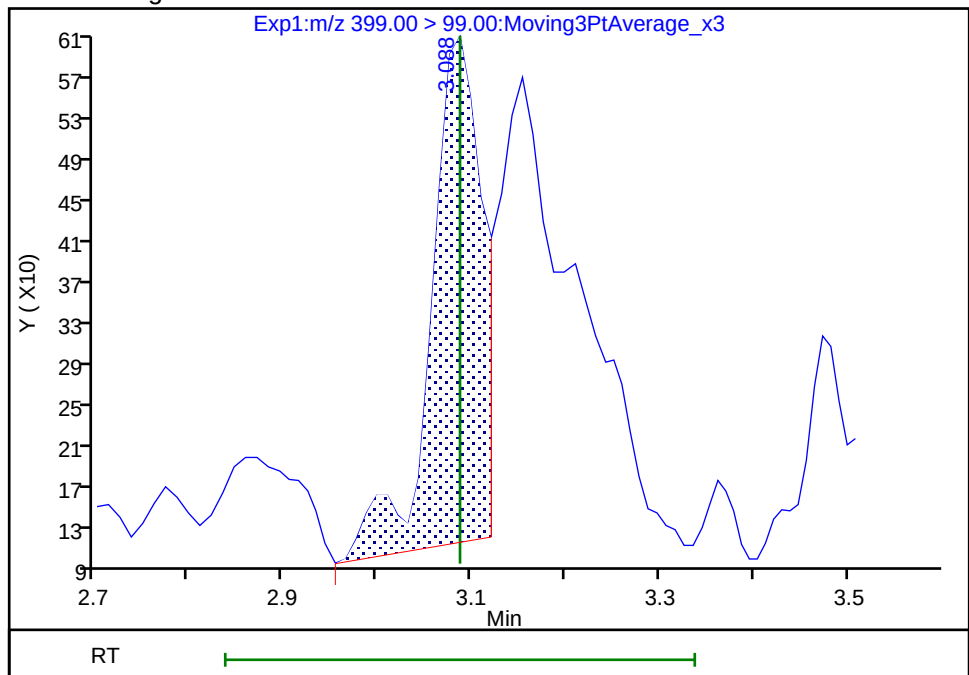
RT: 3.09
Area: 3340
Amount: 0.004288
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1778
Amount: 0.004165
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:06:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

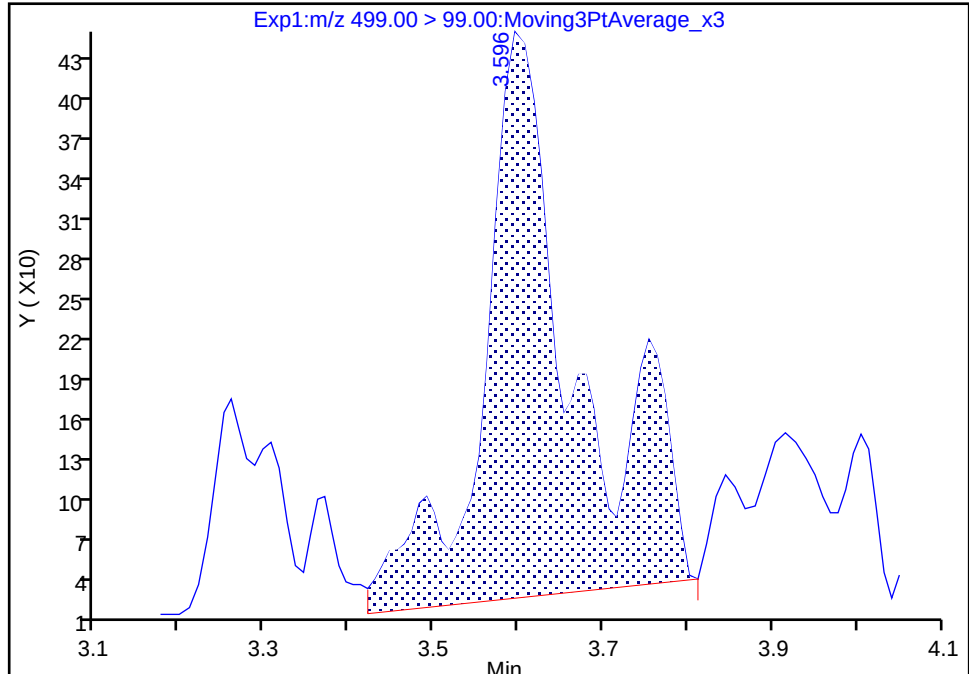
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection 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

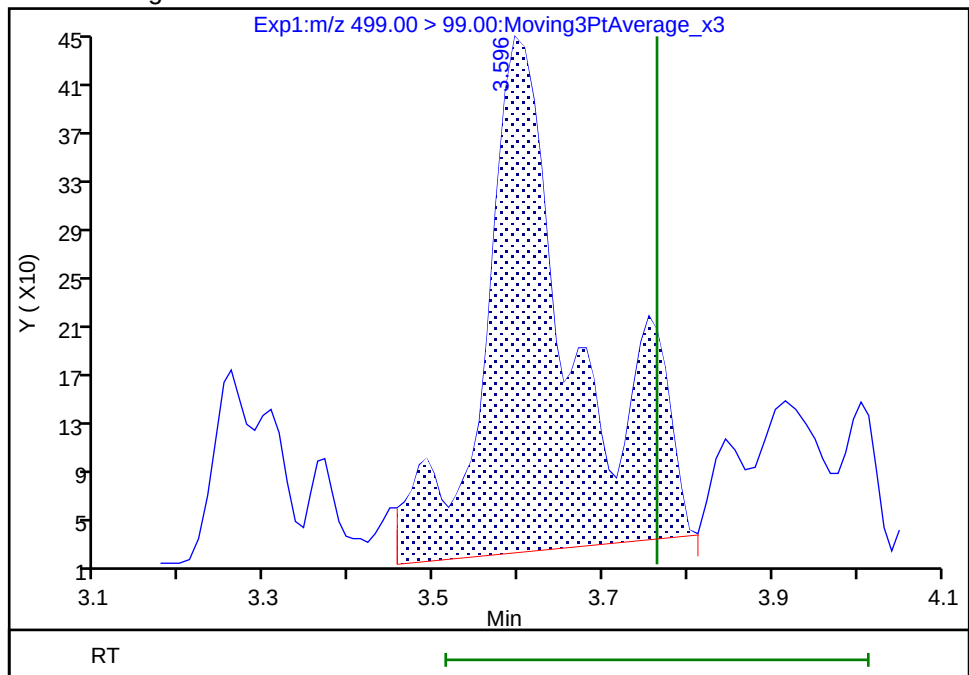
RT: 3.60
Area: 3224
Amount: 0.013639
Amount Units: ng/ml

Processing Integration Results



RT: 3.60
Area: 3156
Amount: 0.006354
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:07:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

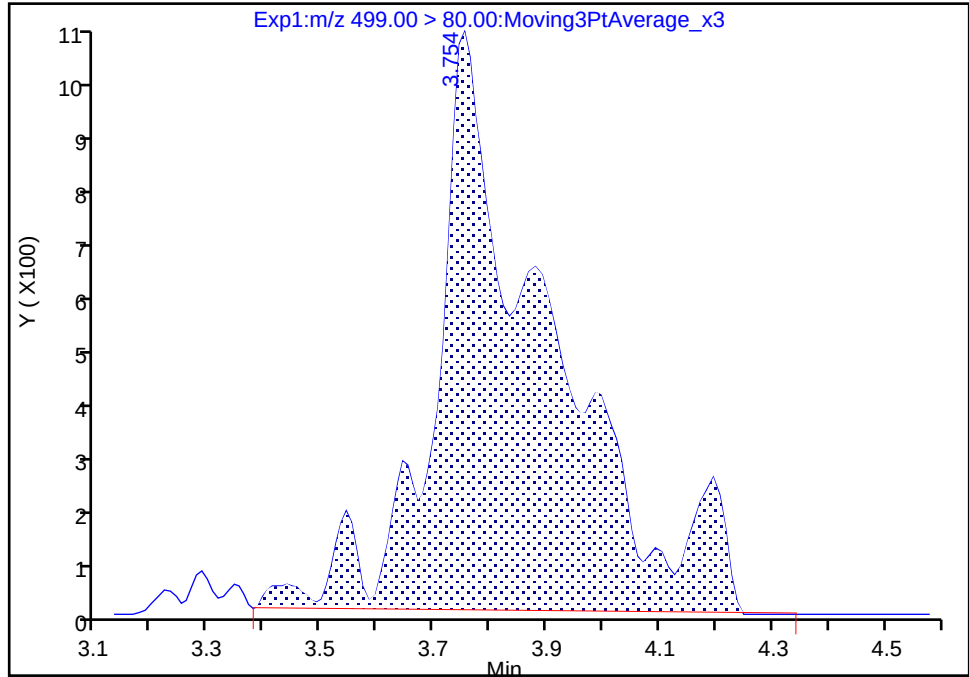
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul 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

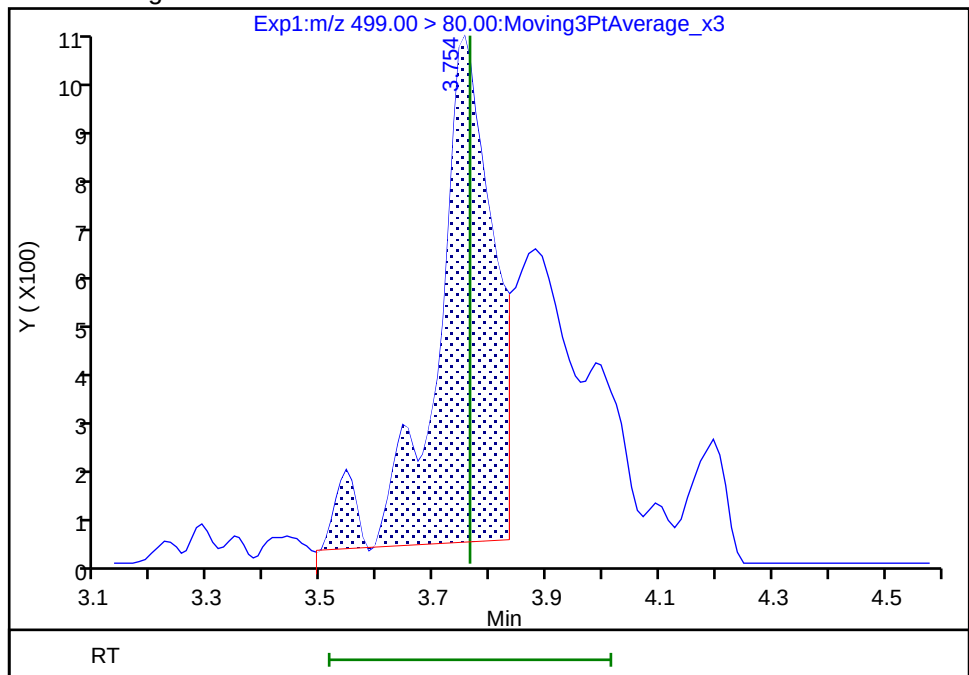
RT: 3.75
Area: 14414
Amount: 0.013639
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 6715
Amount: 0.006354
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:08:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

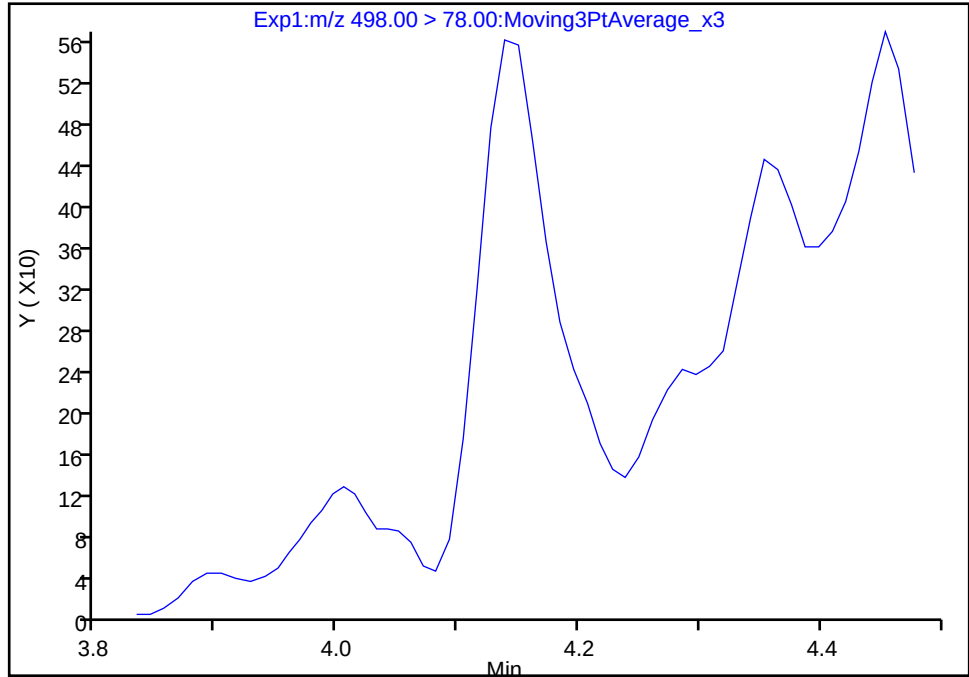
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul 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

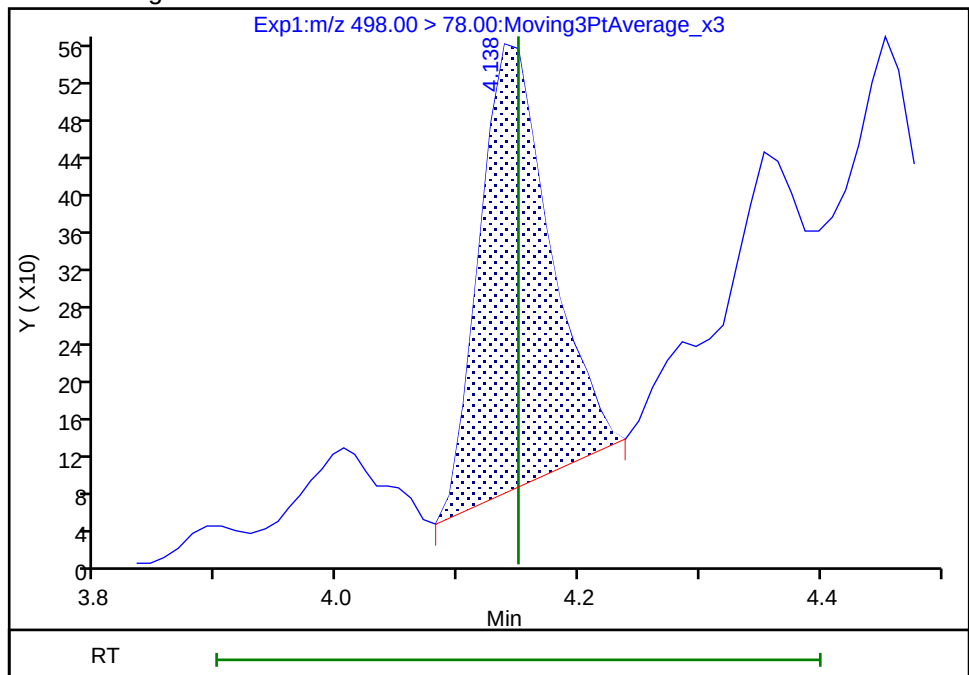
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.14
Area: 1951
Amount: 0.001299
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:08:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

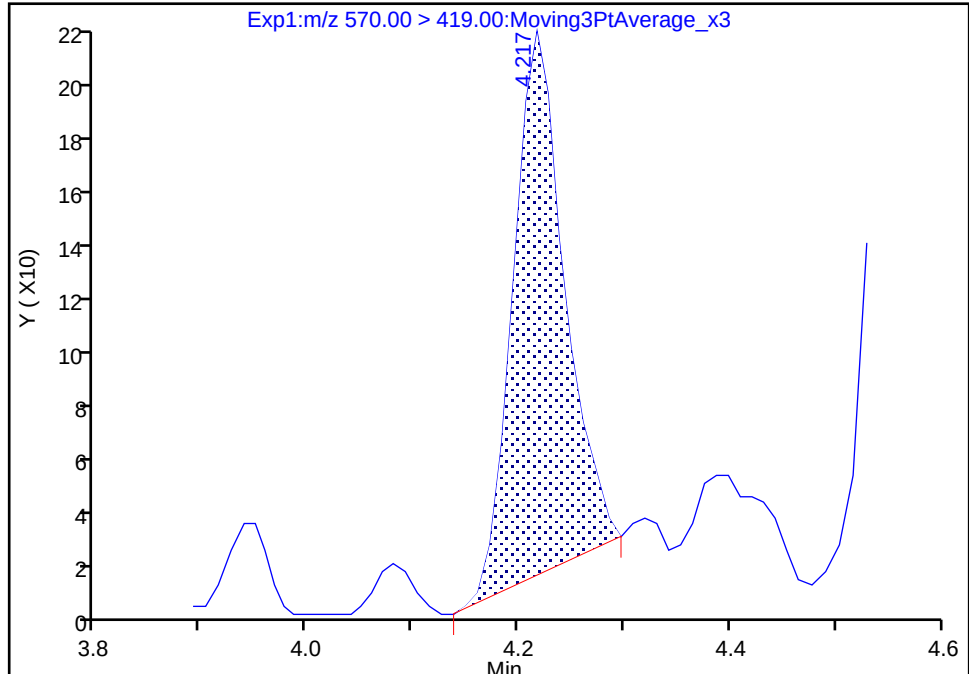
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection 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

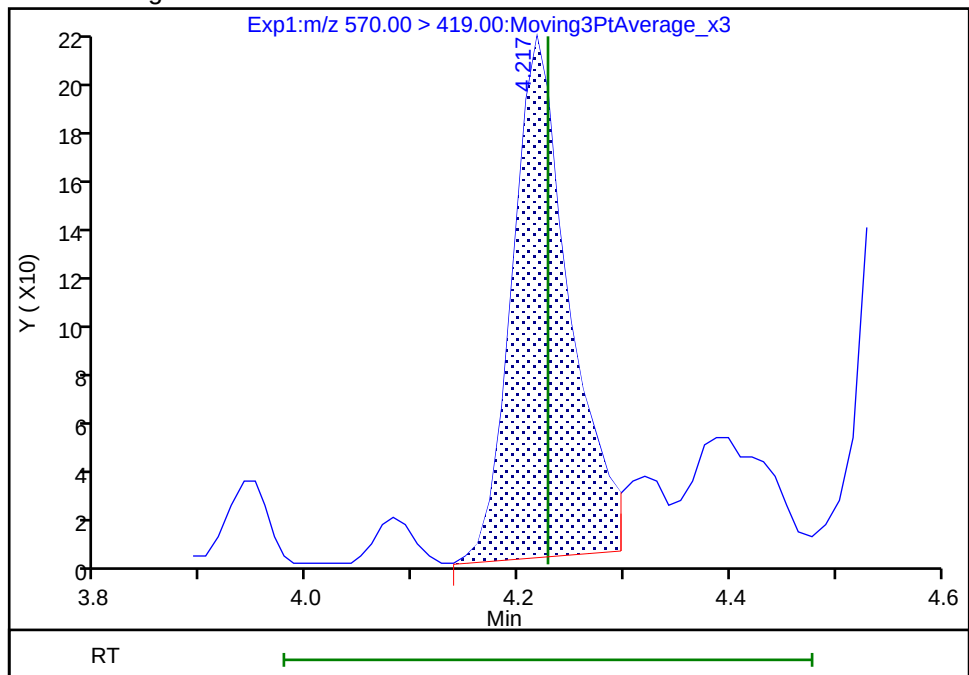
RT: 4.22
Area: 689
Amount: -0.009651
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 803
Amount: -0.009324
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:08:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

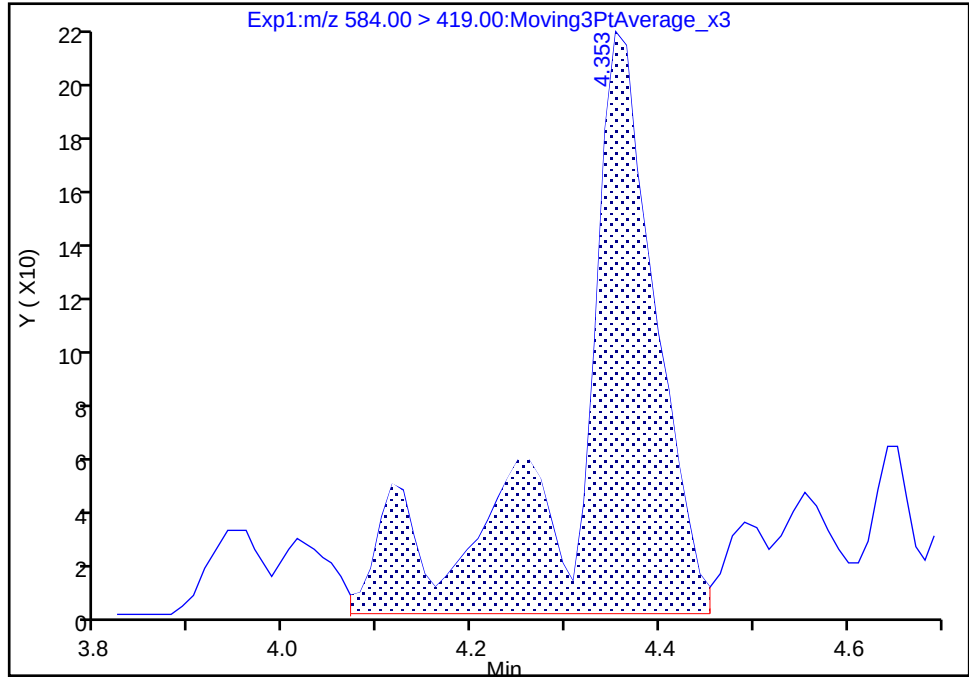
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul 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

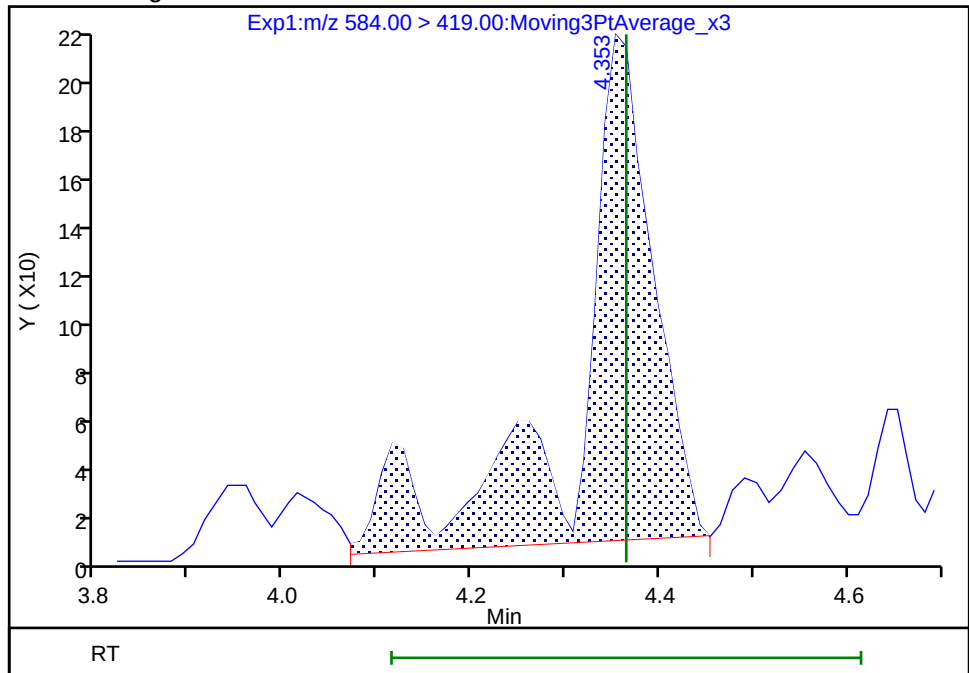
RT: 4.35
Area: 1351
Amount: 0.003788
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1202
Amount: 0.003370
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:09:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

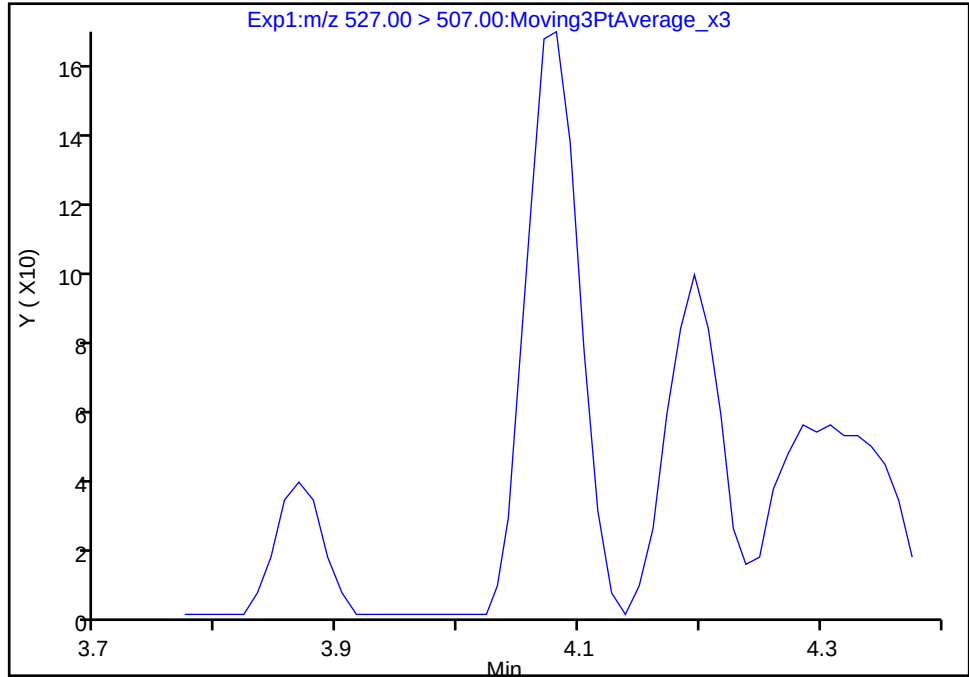
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d
Injection Date: 05-Jan-2023 17:57:29 Instrument ID: LC812
Lims ID: 460-271908-A-2-A Lab Sample ID: 200-271908-2
Client ID: BCS-09-65_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul 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

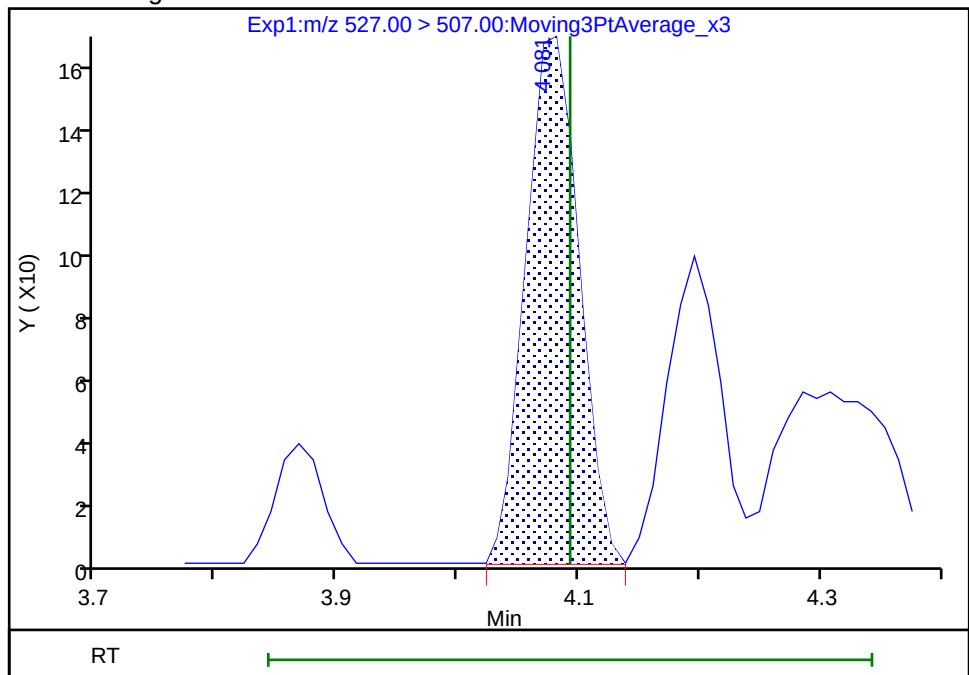
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.08
Area: 500
Amount: 0.001080
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:08:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

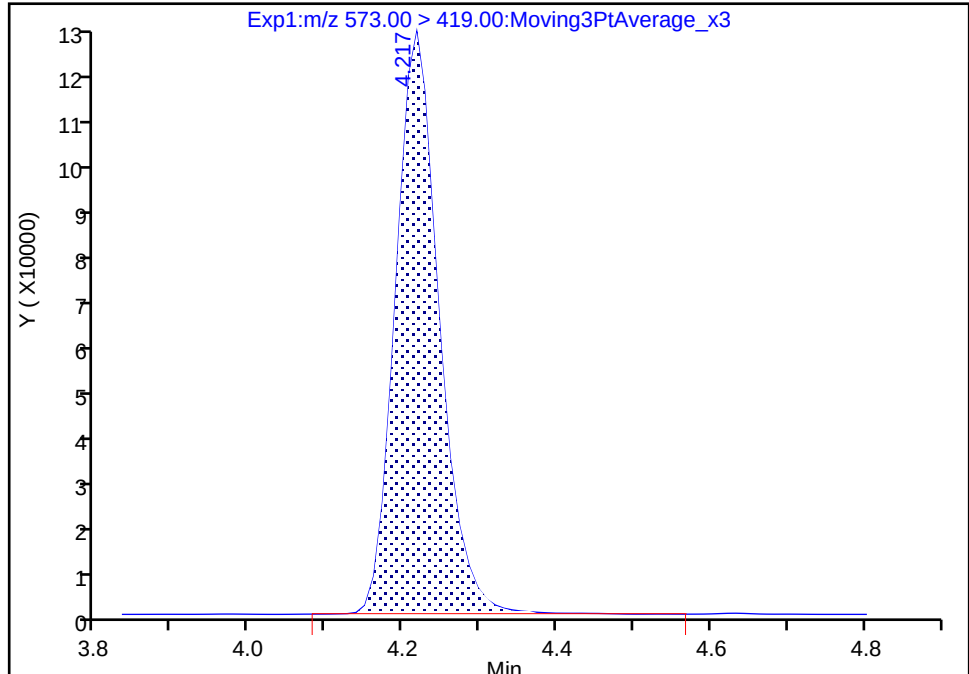
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

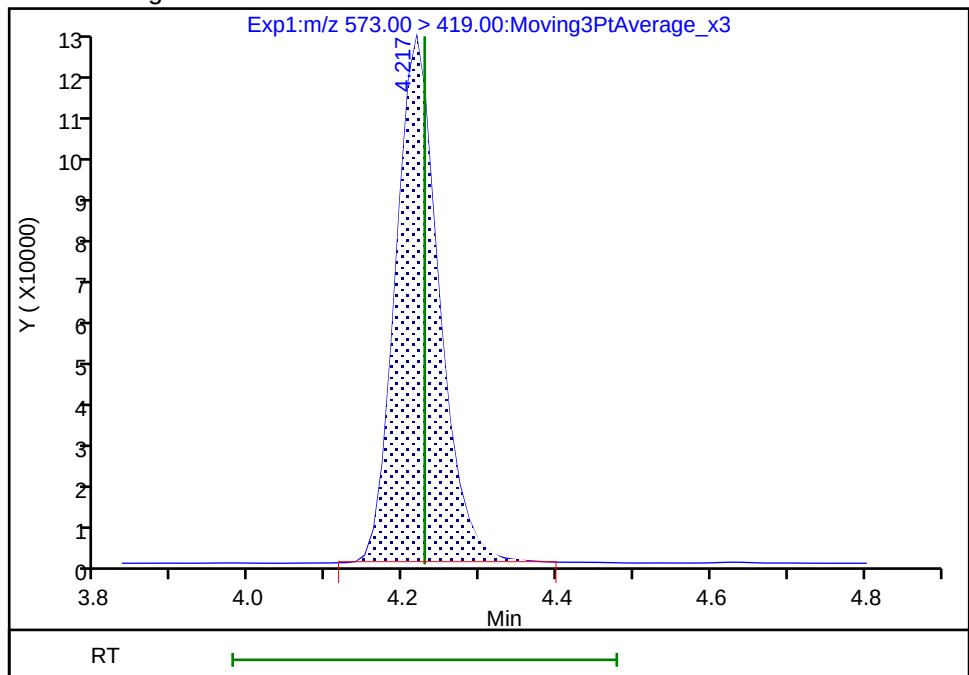
RT: 4.22
Area: 509927
Amount: 0.984126
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 506670
Amount: 0.977841
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:05:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

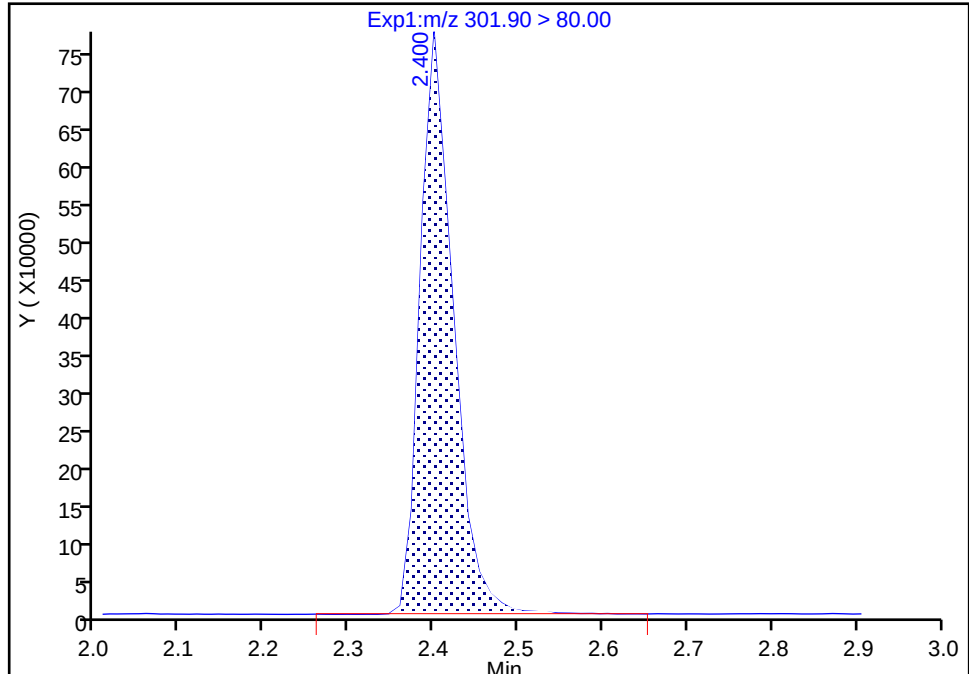
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A24.d				
Injection Date:	05-Jan-2023 17:57:29	Instrument ID:	LC812		
Lims ID:	460-271908-A-2-A	Lab Sample ID:	200-271908-2		
Client ID:	BCS-09-65_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

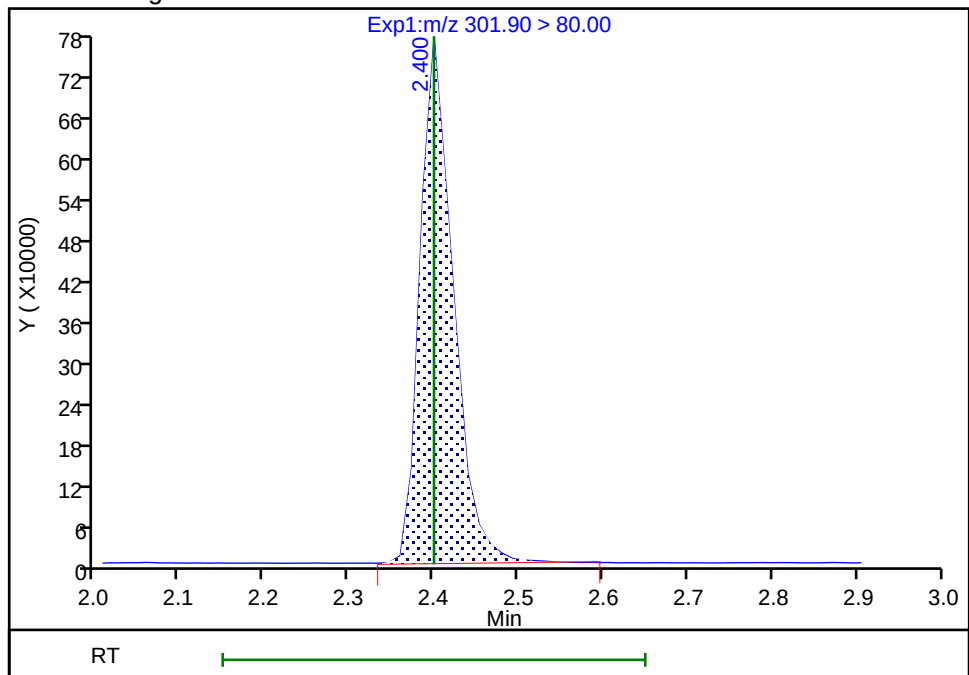
RT: 2.40
Area: 2099426
Amount: 0.911024
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2094997
Amount: 0.909102
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:05:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: BCS-09-66_(12-12.5)P Lab Sample ID: 460-271908-3

Matrix: Solid Lab File ID: PA230105A25.d

Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:25

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.02(g) Date Analyzed: 01/05/2023 18:05

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

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 26.9 % Solids: 73.1 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.68	U	0.68	0.45
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.075
307-24-4	Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.063
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053
335-67-1	Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.079
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046
335-76-2	Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.037
307-55-1	Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.045
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.056
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.72	U	2.72	0.15
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.72	U	2.72	0.11
27619-97-2	6:2 FTS	2.72	U	2.72	0.078
39108-34-4	8:2 FTS	0.057	J	2.72	0.050

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: BCS-09-66_(12-12.5)P Lab Sample ID: 460-271908-3
 Matrix: Solid Lab File ID: PA230105A25.d
 Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:25
 Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24
 Sample wt/vol: 5.02(g) Date Analyzed: 01/05/2023 18:05
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 26.9 % Solids: 73.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	85		50-150
STL01892	13C4 PFHpA	89		50-150
STL00990	13C4 PFOA	94		50-150
STL00991	13C4 PFOS	79		50-150
STL00995	13C5 PFNA	91		50-150
STL00992	13C4 PFBA	82		50-150
STL00993	13C2 PFHxA	88		50-150
STL00996	13C2 PFDA	96		50-150
STL00997	13C2 PFUnA	84		50-150
STL00998	13C2 PFDoA	83		50-150
STL01056	13C8 FOSA	74		50-150
STL01893	13C5 PFPeA	80		50-150
STL02116	13C2 PFTeDA	84		50-150
STL02118	d3-NMeFOSAA	82		50-150
STL02117	d5-NEtFOSAA	85		50-150
STL02279	M2-6:2 FTS	99		50-150
STL02280	M2-8:2 FTS	91		50-150
STL02337	13C3 PFBS	83		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
 Lims ID: 460-271908-A-3-A
 Client ID: BCS-09-66_(12-12.5)P
 Sample Type: Client
 Inject. Date: 05-Jan-2023 18:05:40 ALS Bottle#: 22 Worklist Smp#: 25
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271908-A-3-A
 Misc. Info.: 200-0053906-025 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:19:30 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 14:12:57

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	2.076	0.009	0.606	2748767	1.03		82.2	7071	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	87593	0.0386			5.9	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.694	2031365	1.00		79.7	2956	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	32449	0.0183			0.6	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.698	2130296	0.9620		82.8	106836	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4607	0.002197	Target=2.09		3.4	M
298.90 > 99.00	2.400	2.400	0.0	1.000	1932		2.38(1.04-3.13)		1.0	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.793	2345063	1.10		87.8	3776	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	30516	0.0149	Target=14.25		3.7	M
313.00 > 119.00	2.713	2.725	-0.012	0.996	2193		13.92(7.12-21.37)		3.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.076	3.088	-0.012	0.895	1617415	1.00		84.8	2379	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.076	3.088	-0.012	1.000	8075	0.005231	Target=3.66		15.7	M
399.00 > 99.00	3.087	3.088	-0.001	1.004	2666		3.03(1.83-5.49)		4.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.898	2446836	1.11		89.1	3563	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.087	3.099	-0.012	1.000	13323	0.006251	Target=3.97		2.3	
363.00 > 169.00	3.076	3.099	-0.023	0.996	3085		4.32(1.98-5.95)		5.2	

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	3.429	3.439	-0.010	0.997	317330	1.17		98.8	824	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.429	3.439	-0.010	1.000	3939	-0.004895			4.4	M
D 14 13C4 PFOA										
417.00 > 372.00	3.438	3.448	-0.010	1.000	2897921	1.17		93.9	7560	
* 62 13C2 PFOA										
415.00 > 370.00	3.438	3.448	-0.010		2982315	1.25			4298	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.438	3.448	-0.010	1.000	34336	0.0139	Target=2.79		2.6	M
413.00 > 169.00	3.438	3.448	-0.010	1.000	13212		2.60(1.40-4.19)		12.6	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.764	-0.011	1.092	1029908	0.9409		78.7	2422	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.753	3.764	-0.011	1.000	7133	0.006805	Target=5.11		6.3	M
499.00 > 99.00	3.753	3.764	-0.011	1.000	2454		2.91(2.55-7.66)		5.0	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.772	3.783	-0.011	1.000	5412	0.002381	Target=8.55		1.3	M
463.00 > 169.00	3.762	3.783	-0.021	0.997	993		5.45(4.28-12.83)		6.7	M
D 19 13C5 PFNA										
468.00 > 423.00	3.772	3.783	-0.011	1.097	2739350	1.14		91.3	4824	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	2921923	1.19		95.6	3939	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.071	4.093	-0.022	1.184	362107	1.09		91.4	1032	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.071	4.093	-0.022	1.000	10185	0.0208			97.4	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.138	4.150	-0.012	1.000	2510	0.001609			5.1	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.138	4.150	-0.012	1.204	1866969	0.9312		74.5	2056	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.227	507895	1.02		81.6	1628	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.217	4.228	-0.011	1.000	375	-0.0106			0.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	2362279	1.05		84.4	2321	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.331	4.353	-0.022	0.997	2003	0.001052	Target=9.88		0.9	RM
563.00 > 169.00	4.353	4.353	0.0	1.003	47		42.62(4.94-14.82)		0.8	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.342	4.365	-0.023	1.000	868	0.002339			7.1	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.342	4.365	-0.023	1.263	518040	1.06		84.5	1302	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	2354349	1.03		82.6	3078	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

42 Perfluorotetradecanoic acid

RM

713.00 > 169.00 4.972 5.012 -0.040 0.998 575 0.002538 Target=0.89 6.7 RM

713.00 > 219.00 4.972 5.012 -0.040 0.998 354 1.62(0.44-1.33) 5.7

D 43 13C2 PFTeDA

715.00 > 670.00 4.982 5.012 -0.030 1.449 2068906 1.05 83.9 4767

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d

Injection Date: 05-Jan-2023 18:05:40

Instrument ID: LC812

Lims ID: 460-271908-A-3-A

Lab Sample ID: 200-271908-3

Client ID: BCS-09-66_(12-12.5)P

Operator ID: lc812tech

ALS Bottle#: 22

Worklist Smp#: 25

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

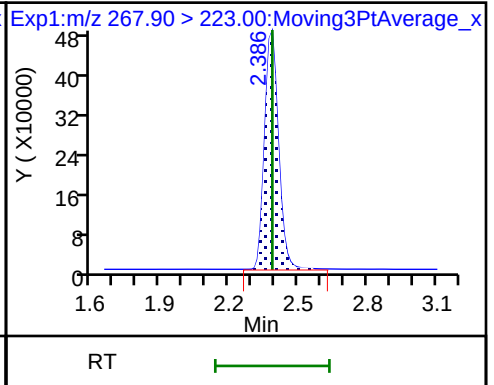
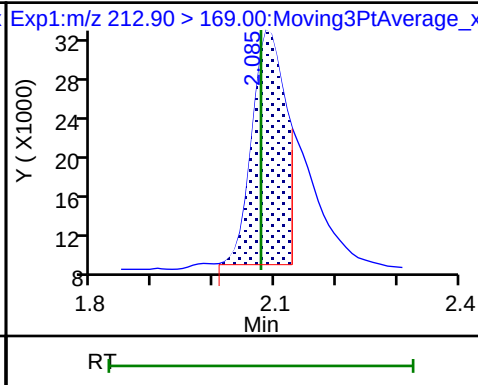
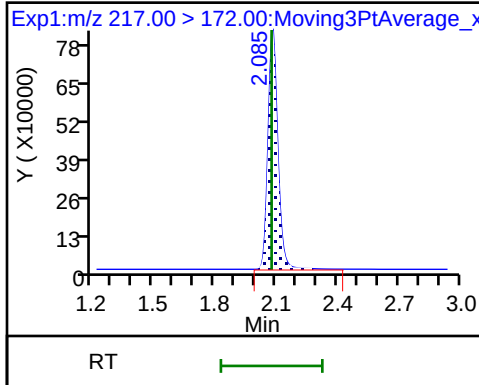
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

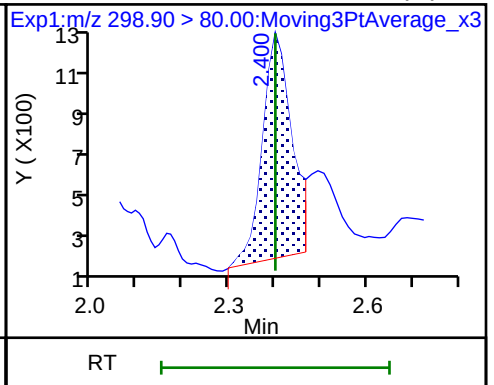
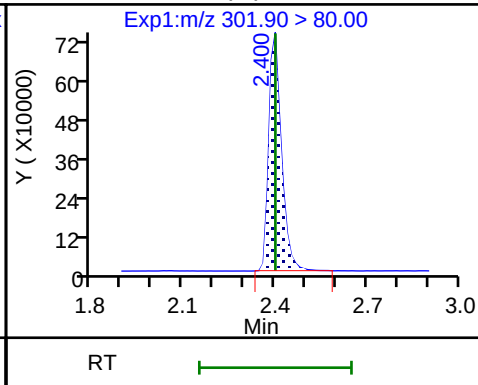
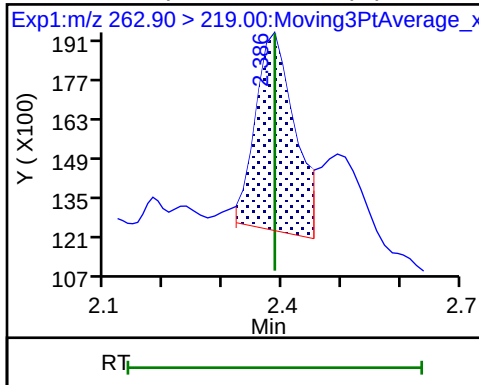
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

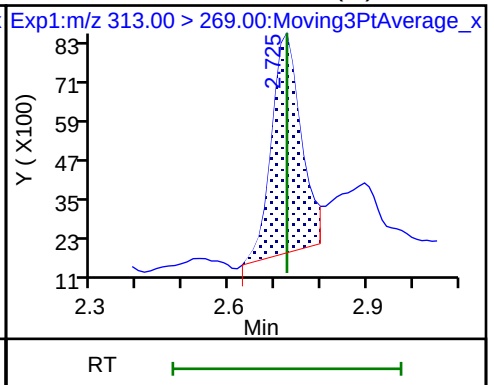
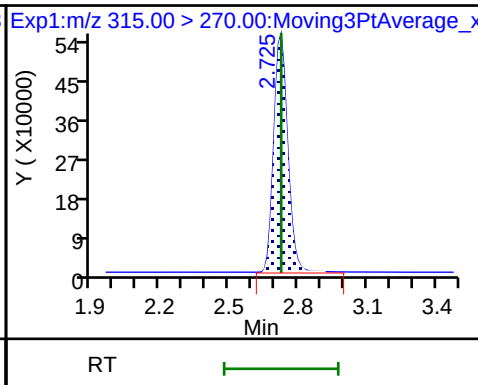
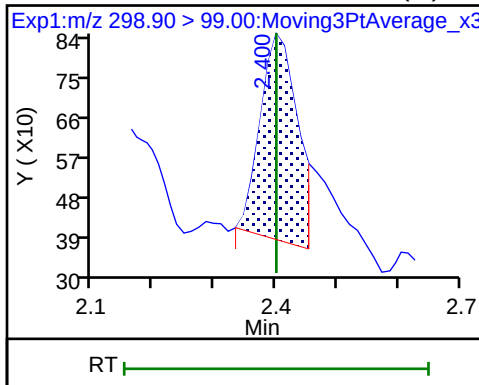
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

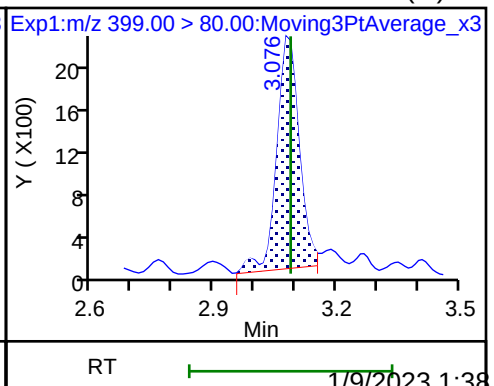
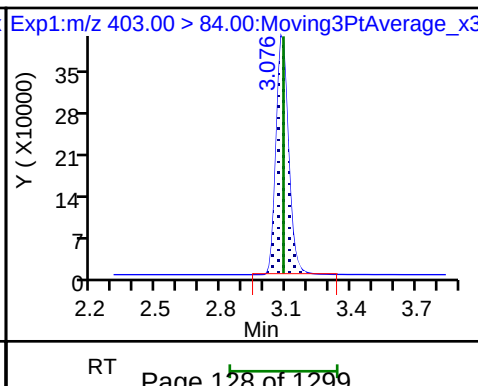
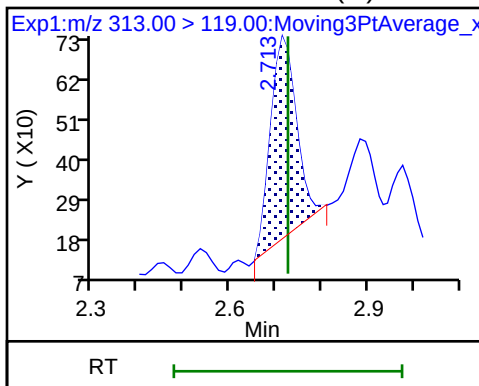
6 Perfluorohexanoic acid (M)

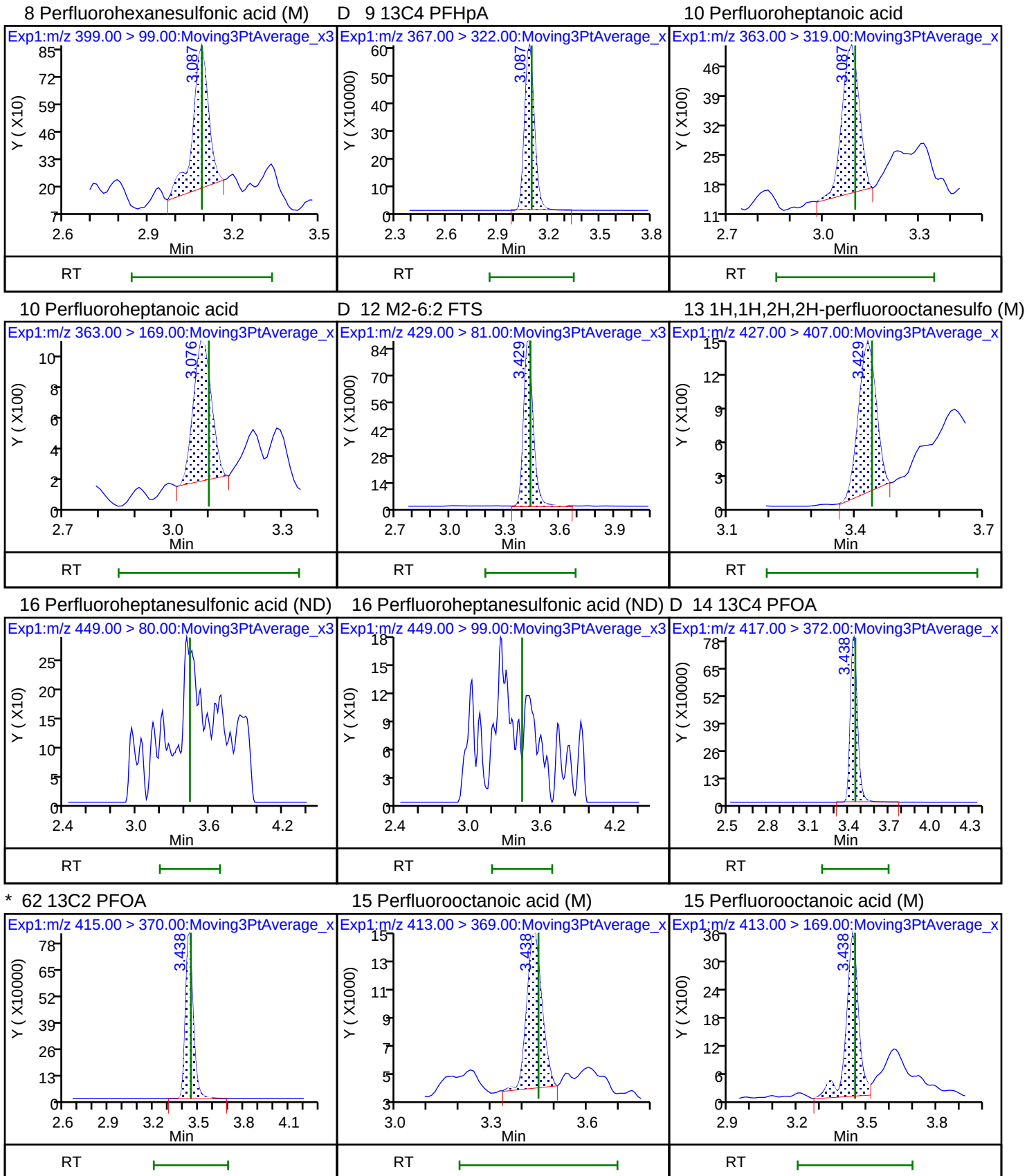


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

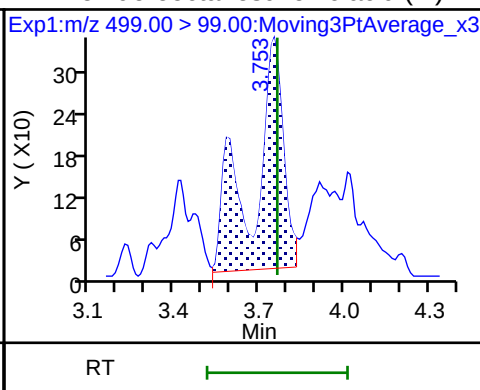
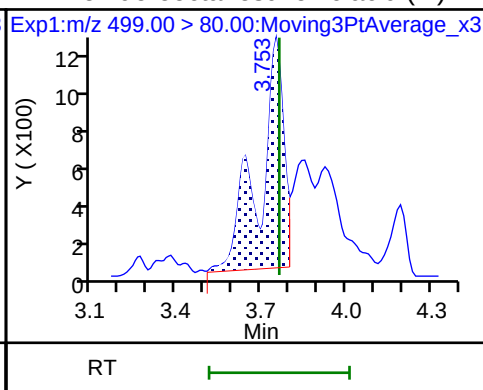
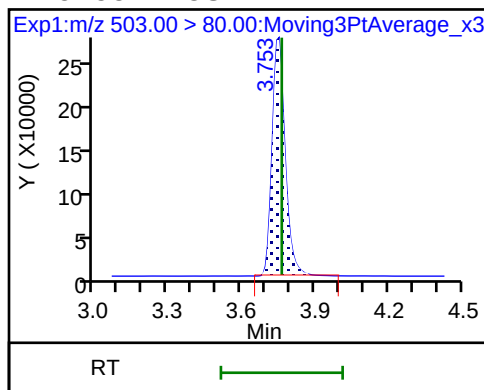




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

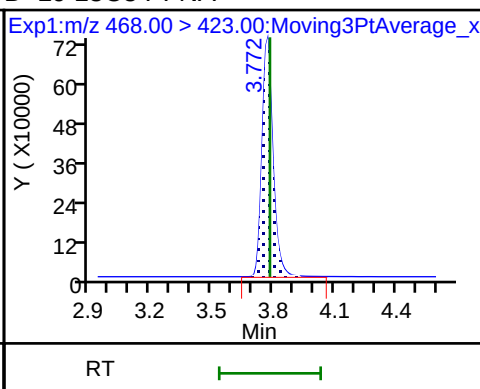
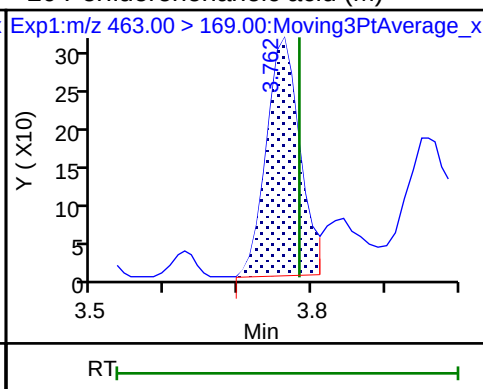
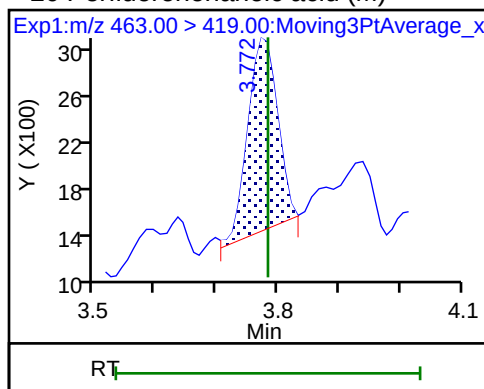
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

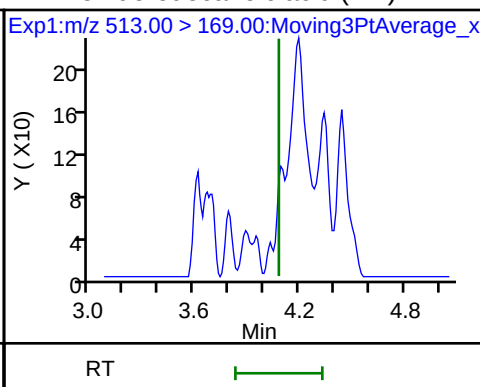
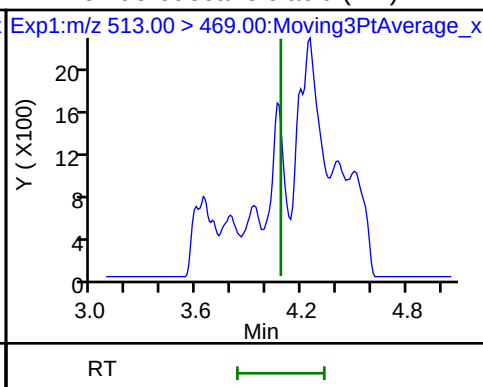
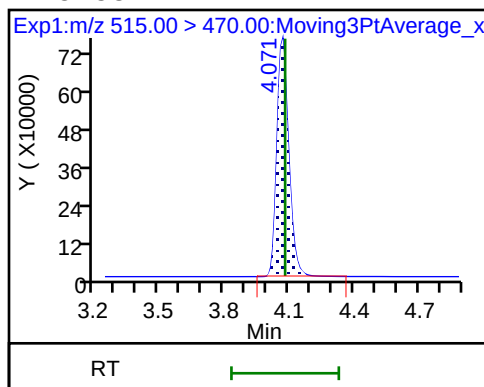
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

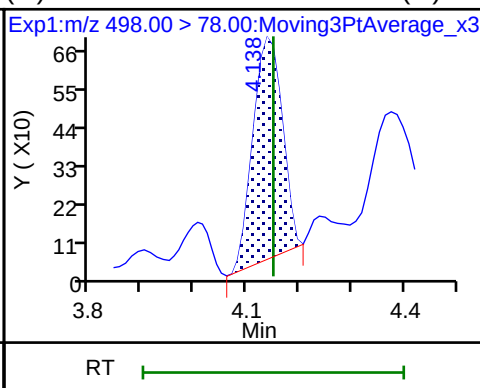
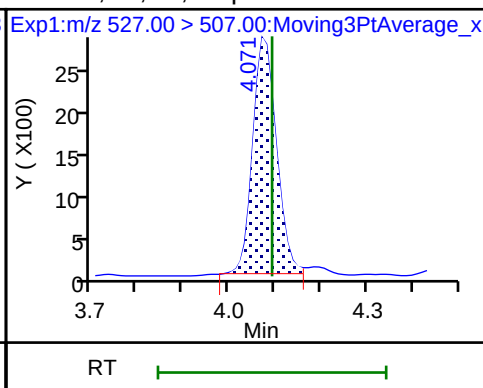
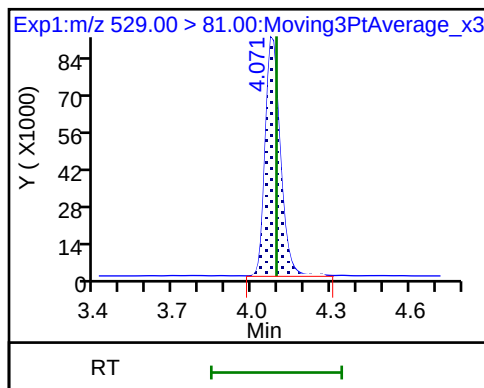
24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

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

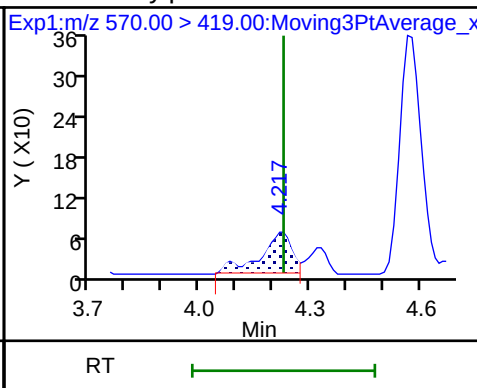
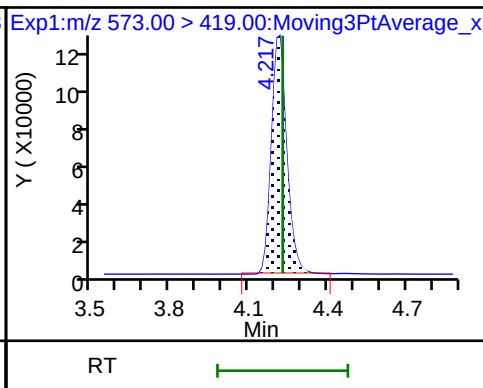
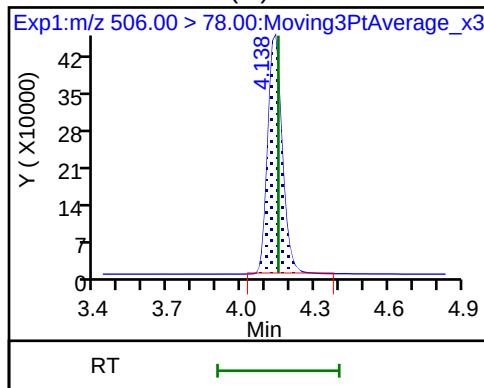
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA (M)

D 27 d3-NMeFOSAA

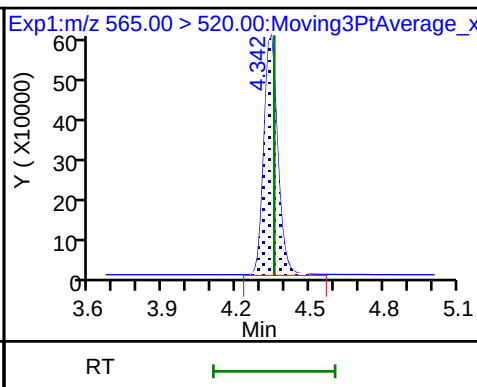
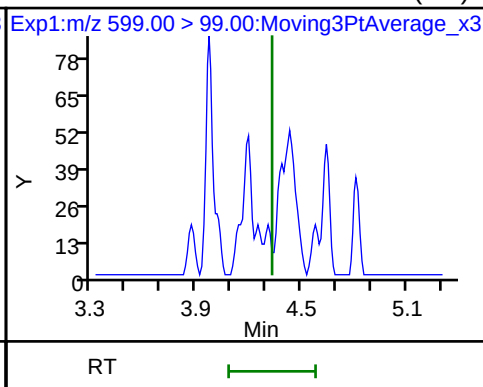
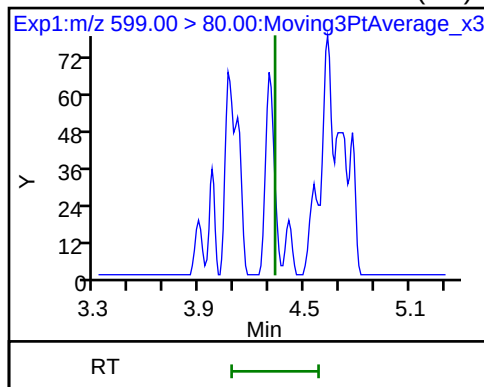
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

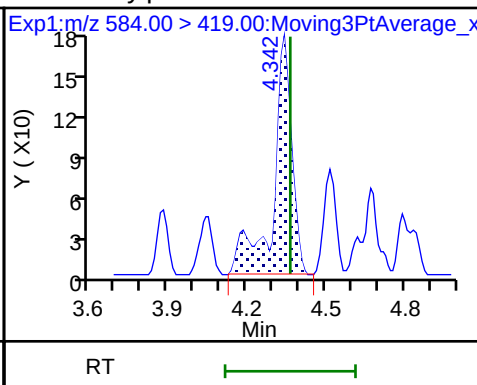
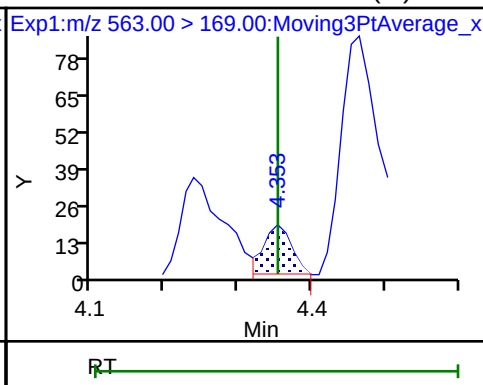
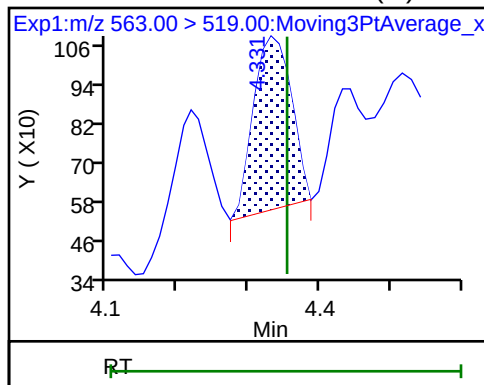
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

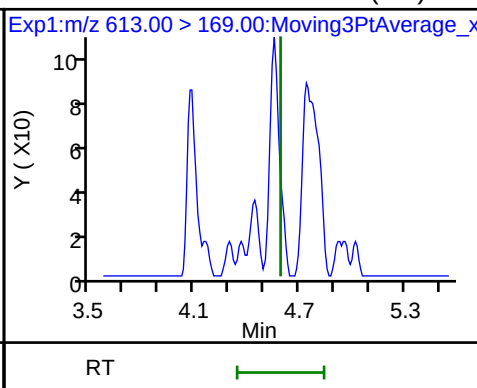
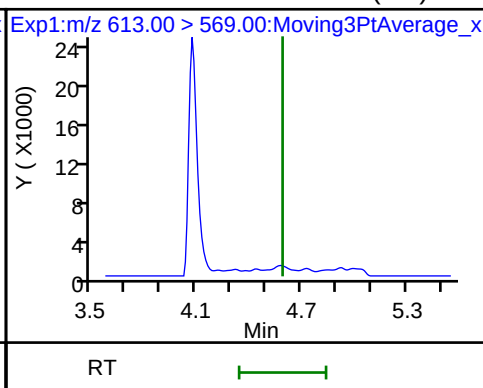
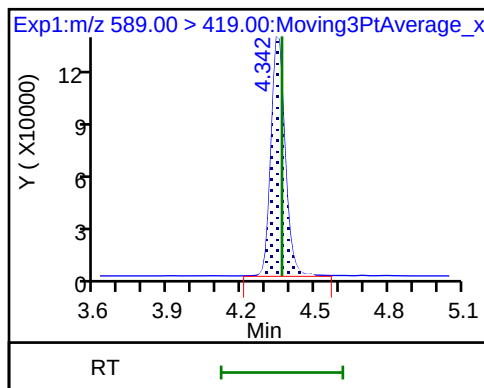
33 N-ethylperfluorooctanesulfonamid



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

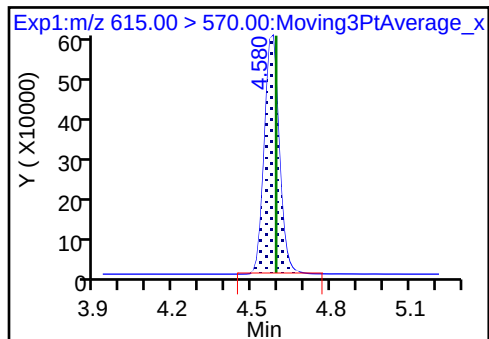
37 Perfluorododecanoic acid (ND)



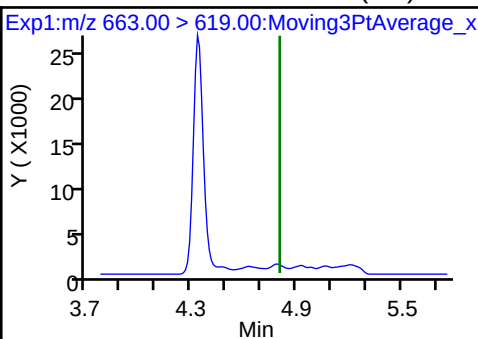
D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (ND)

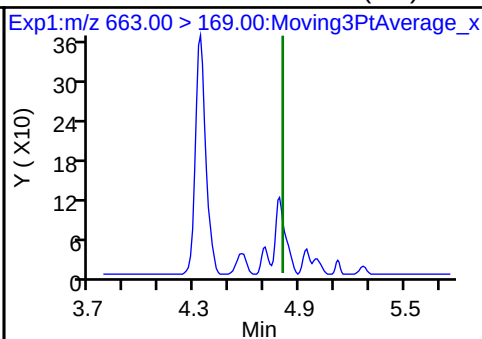
41 Perfluorotridecanoic acid (ND)



RT



RT

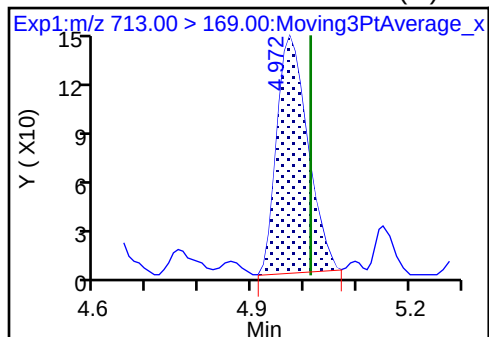


RT

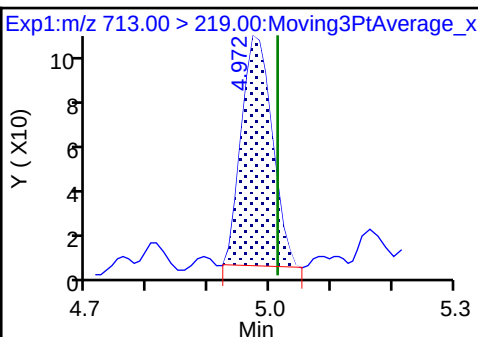
42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

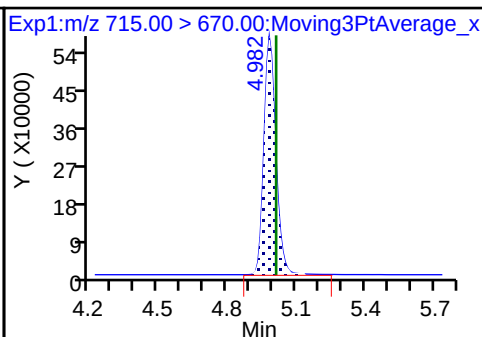
D 43 13C2 PFTeDA



RT



RT



RT

Eurofins Burlington

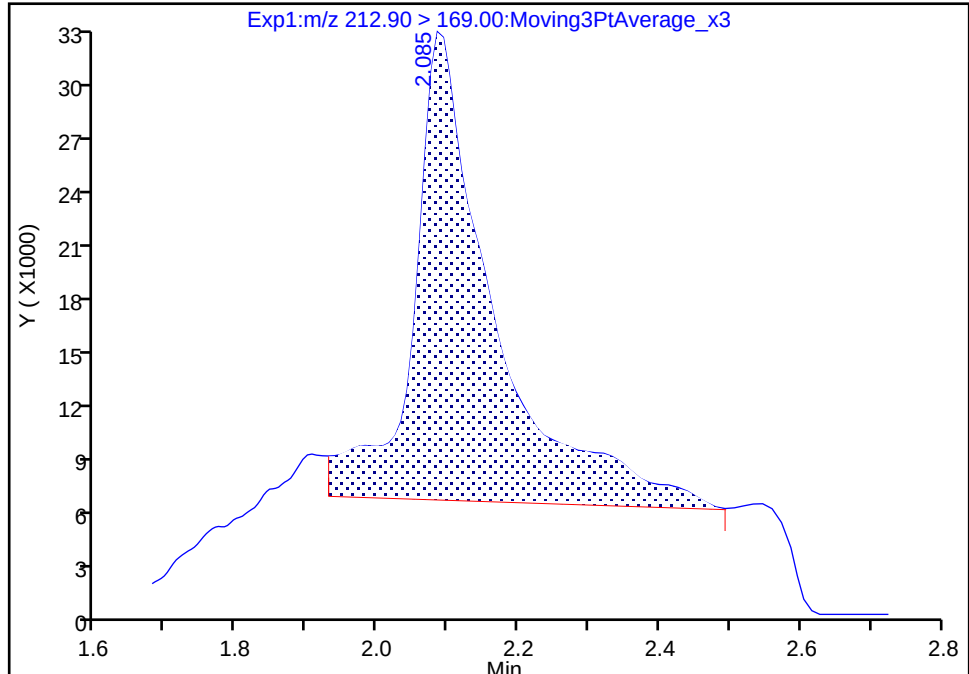
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Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

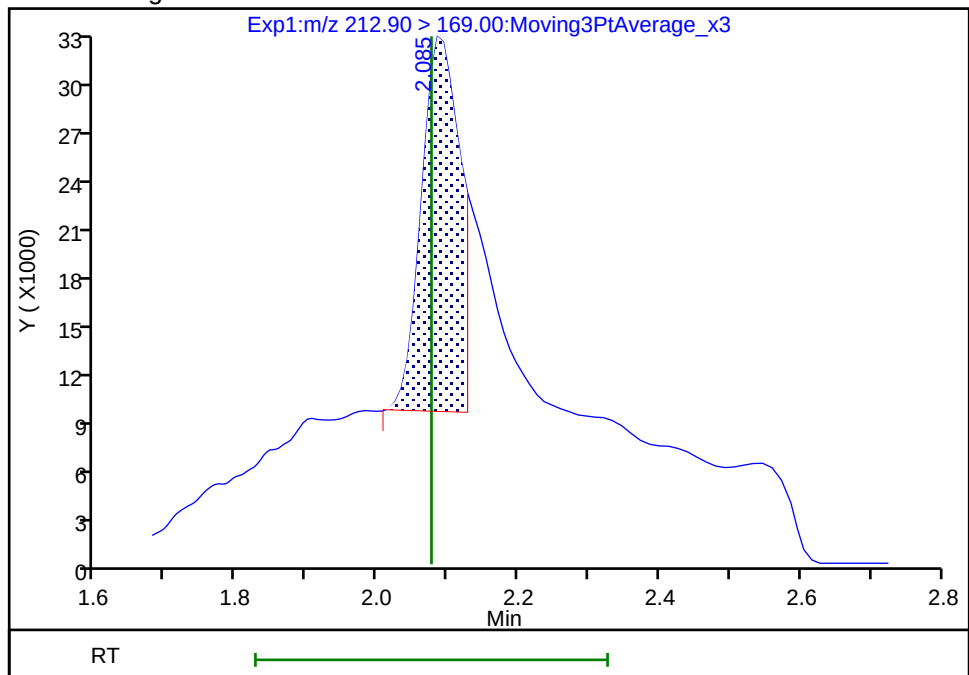
RT: 2.08
Area: 209722
Amount: 0.092486
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 87593
Amount: 0.038628
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:10:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

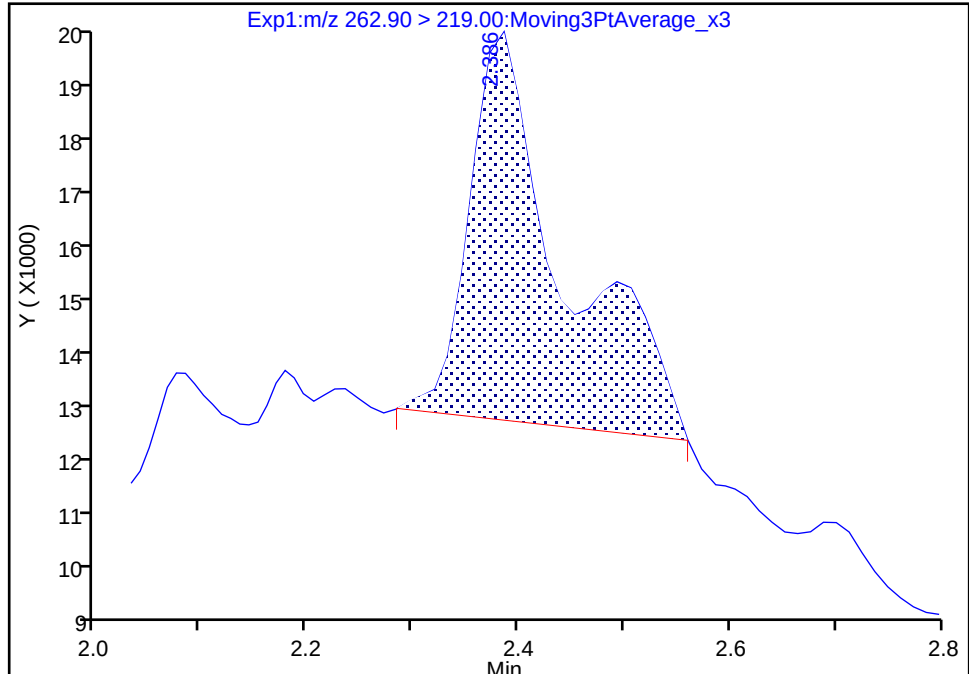
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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

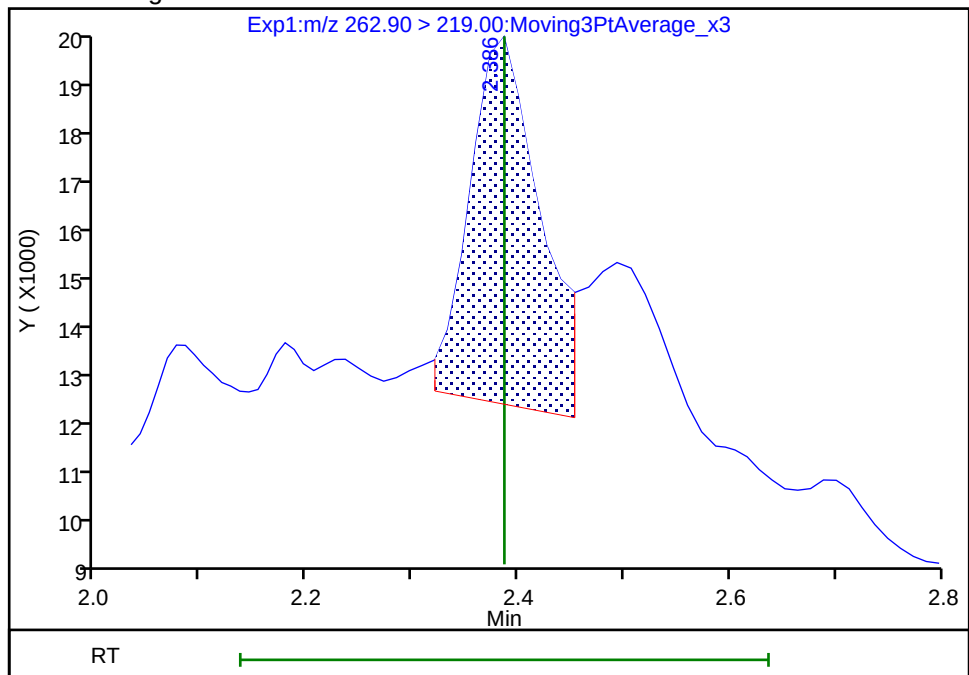
RT: 2.39
Area: 42275
Amount: 0.023870
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 32449
Amount: 0.018322
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:10:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

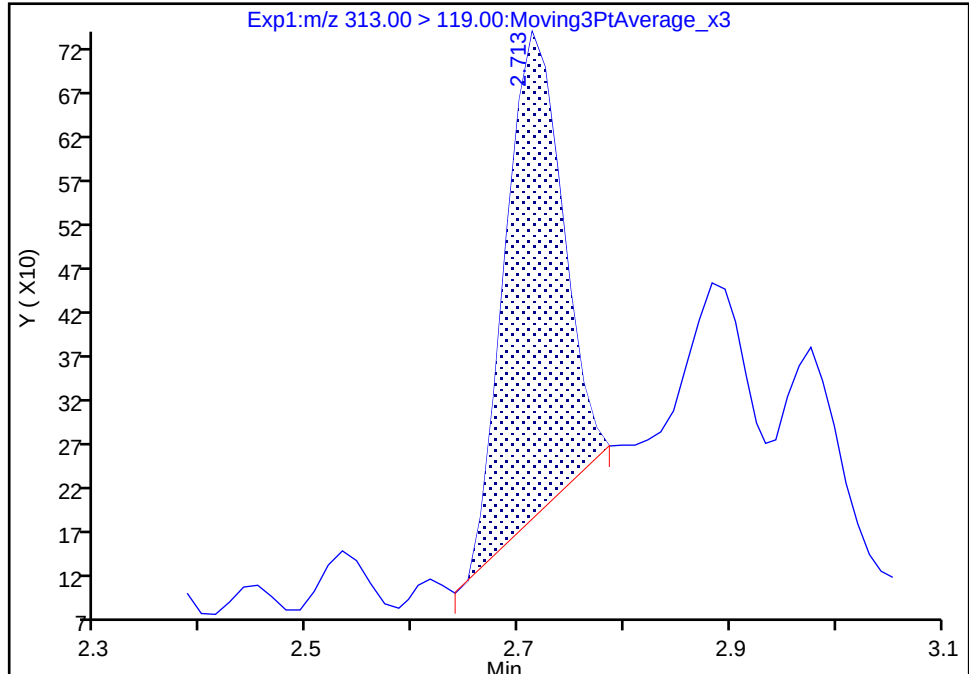
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Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

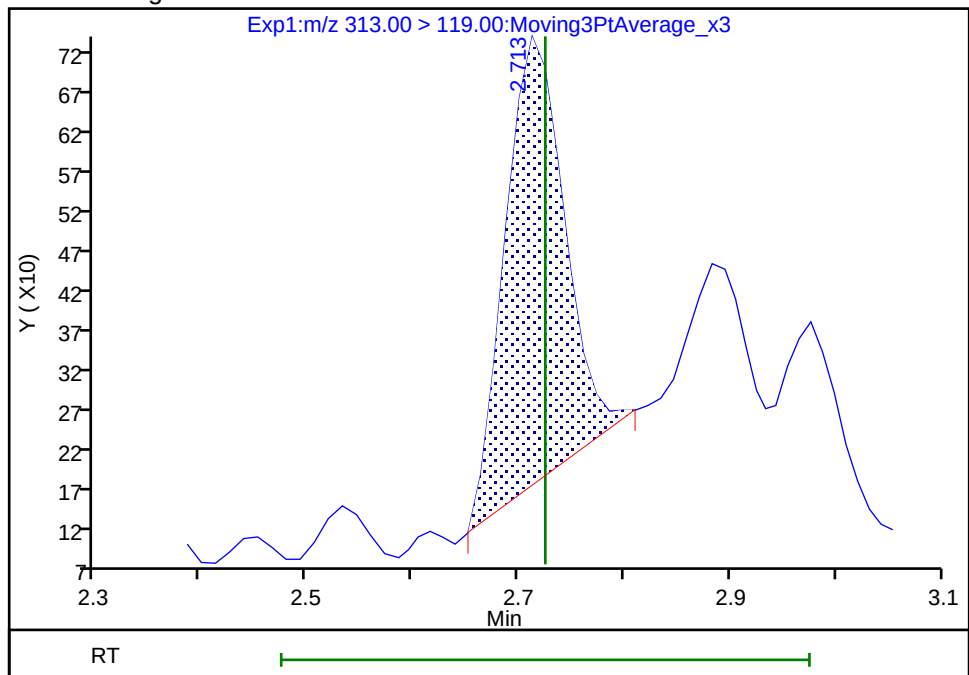
RT: 2.71
Area: 2086
Amount: 0.012238
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 2193
Amount: 0.014928
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:10:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

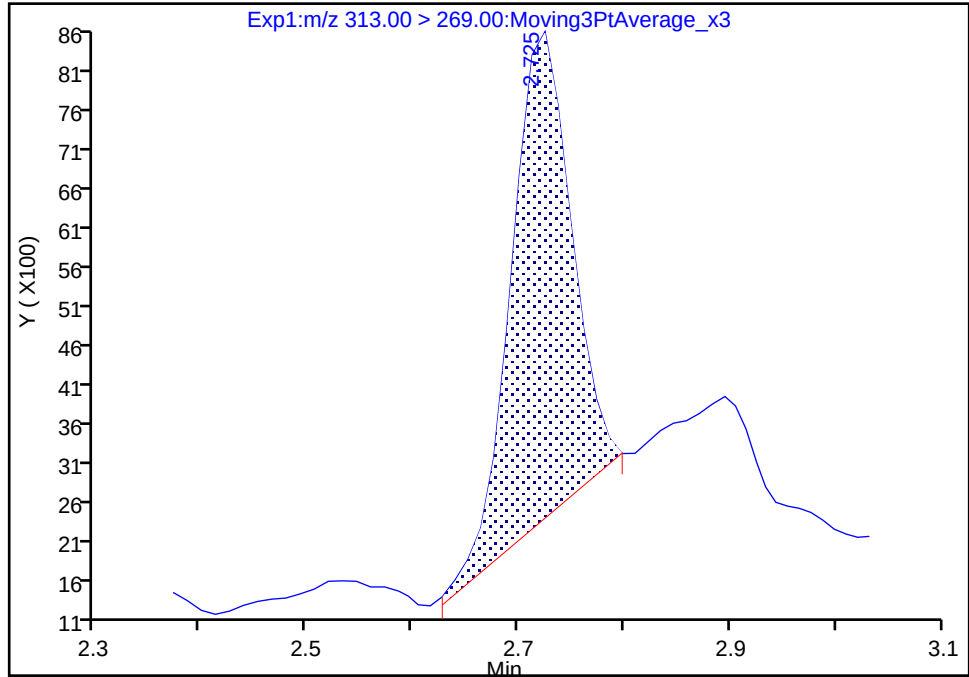
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Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

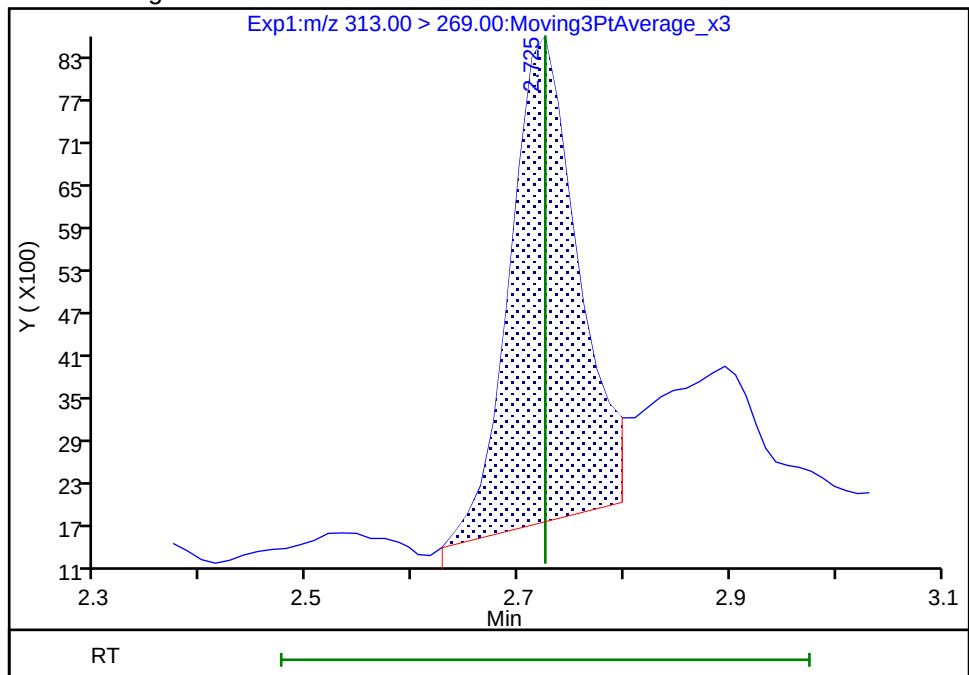
RT: 2.73
Area: 25017
Amount: 0.012238
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 30516
Amount: 0.014928
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:10:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

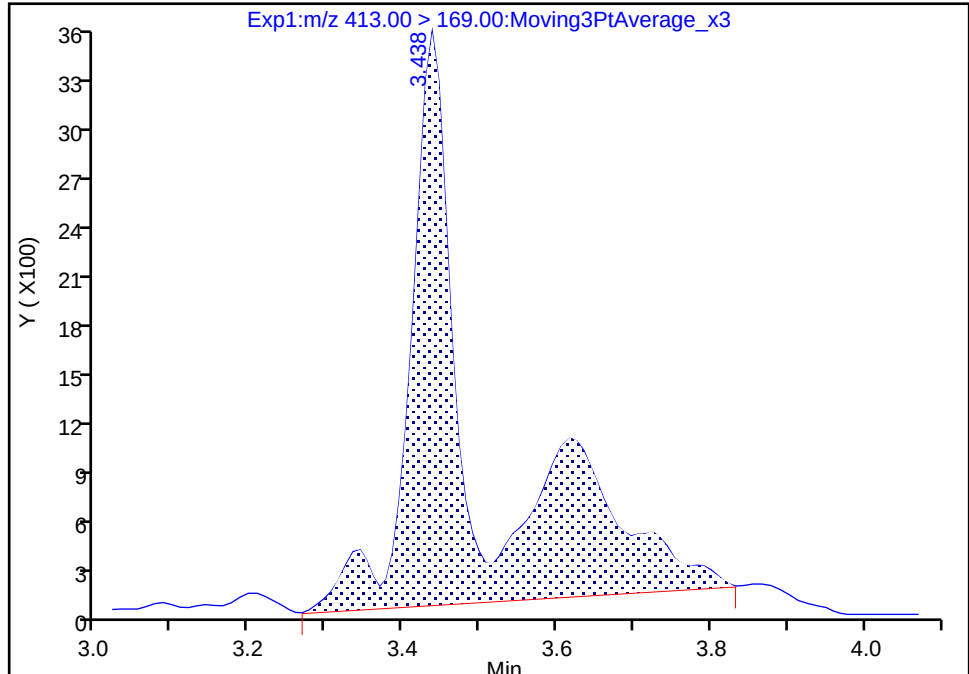
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Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

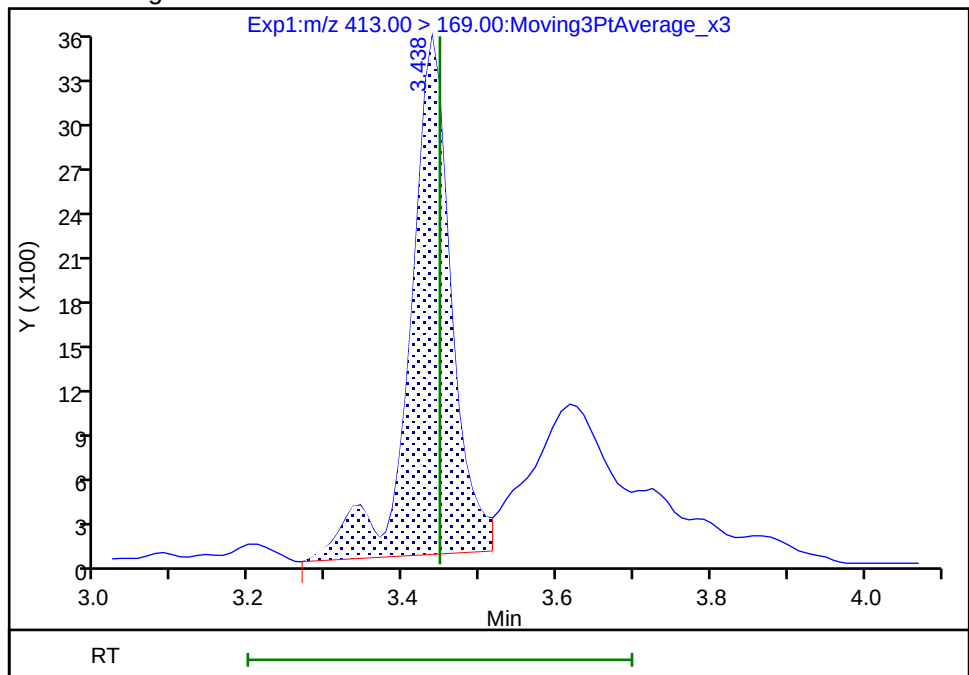
RT: 3.44
Area: 21418
Amount: 0.014057
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 13212
Amount: 0.013854
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:11:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

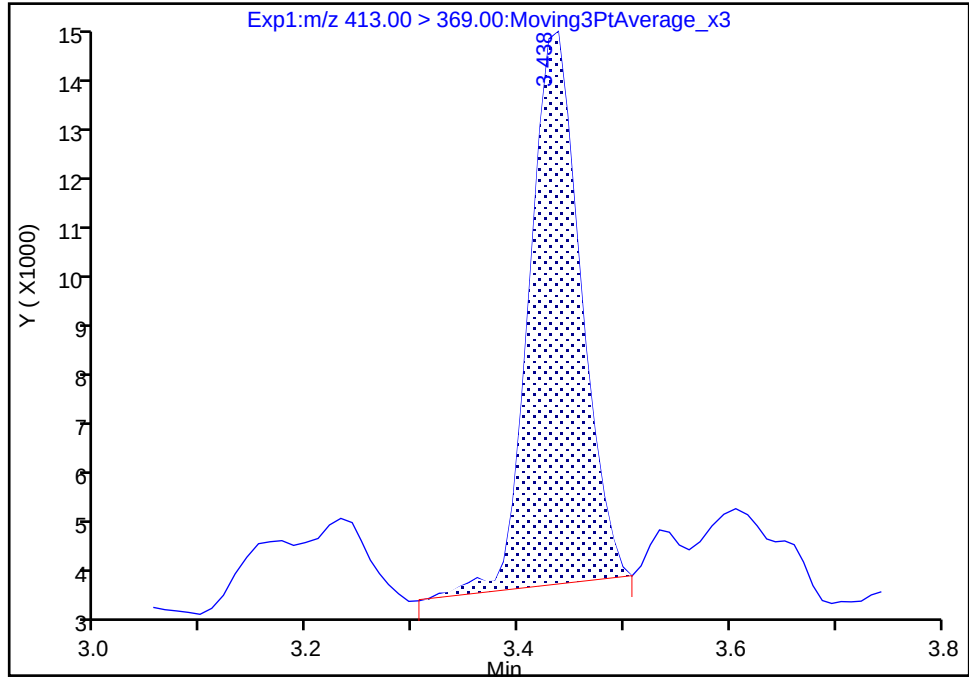
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

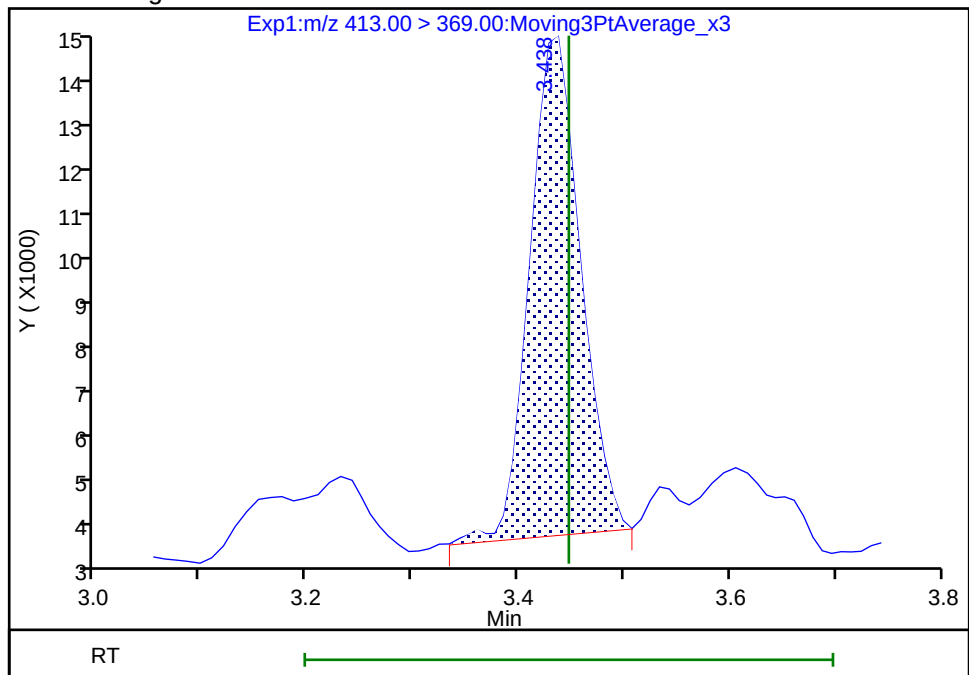
RT: 3.44
Area: 34838
Amount: 0.014057
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 34336
Amount: 0.013854
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:11:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

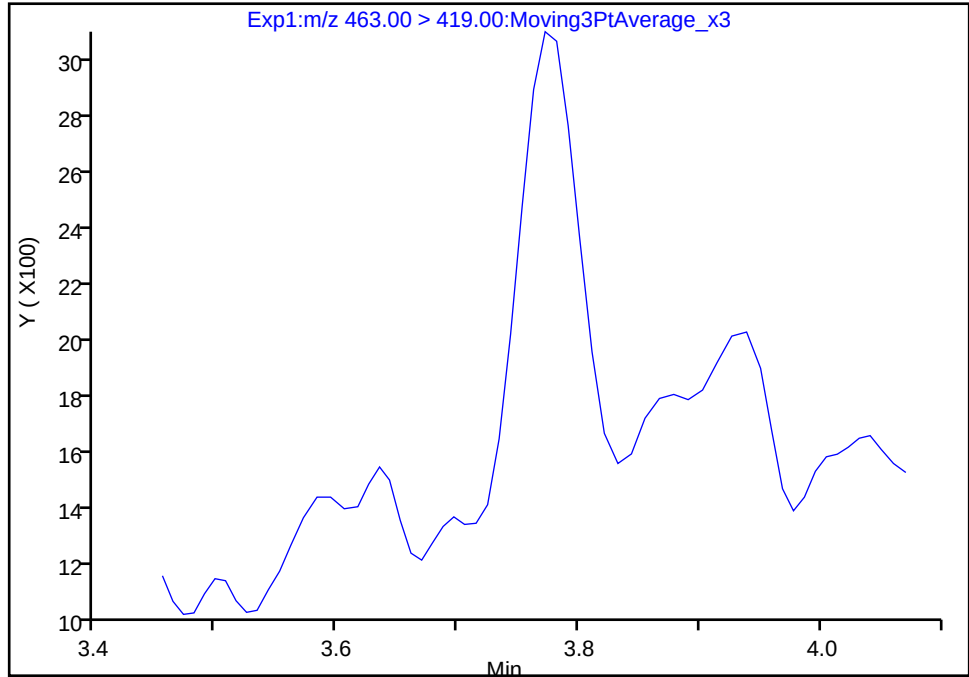
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Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

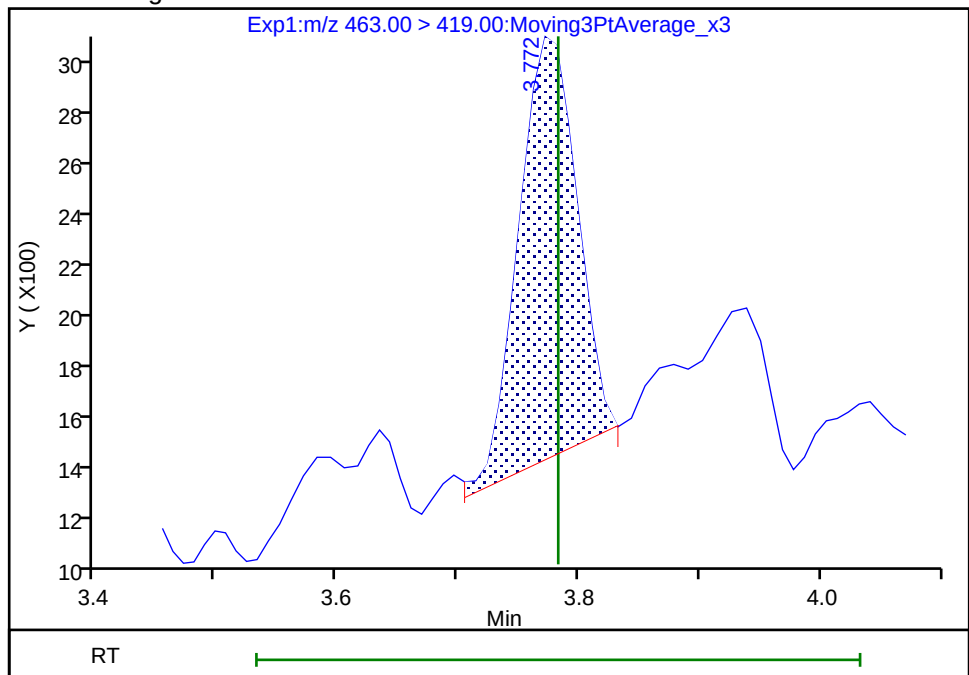
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 10:04:42

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

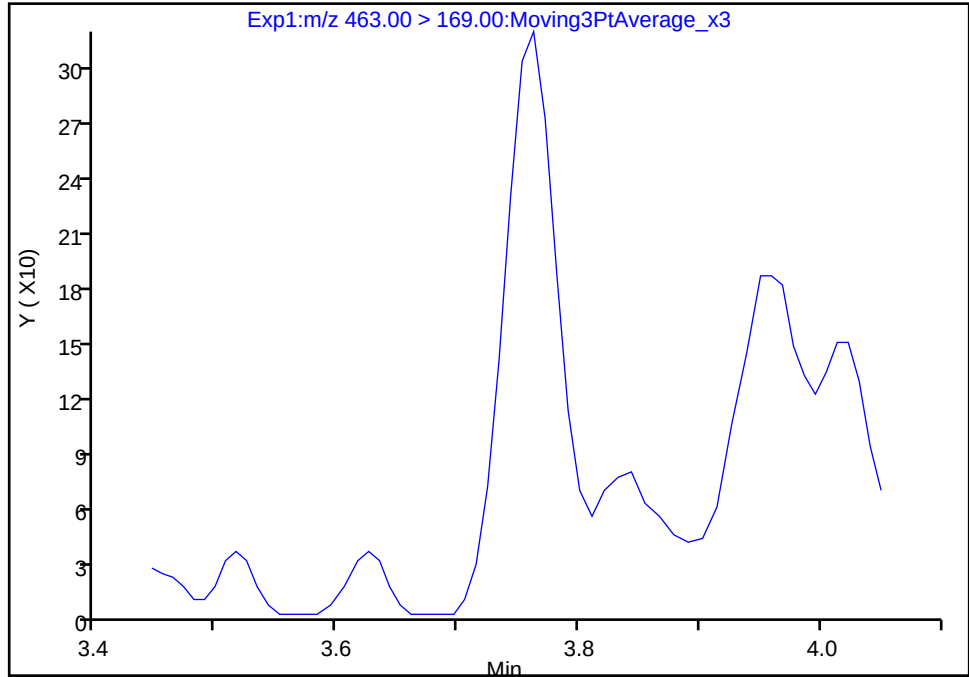
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

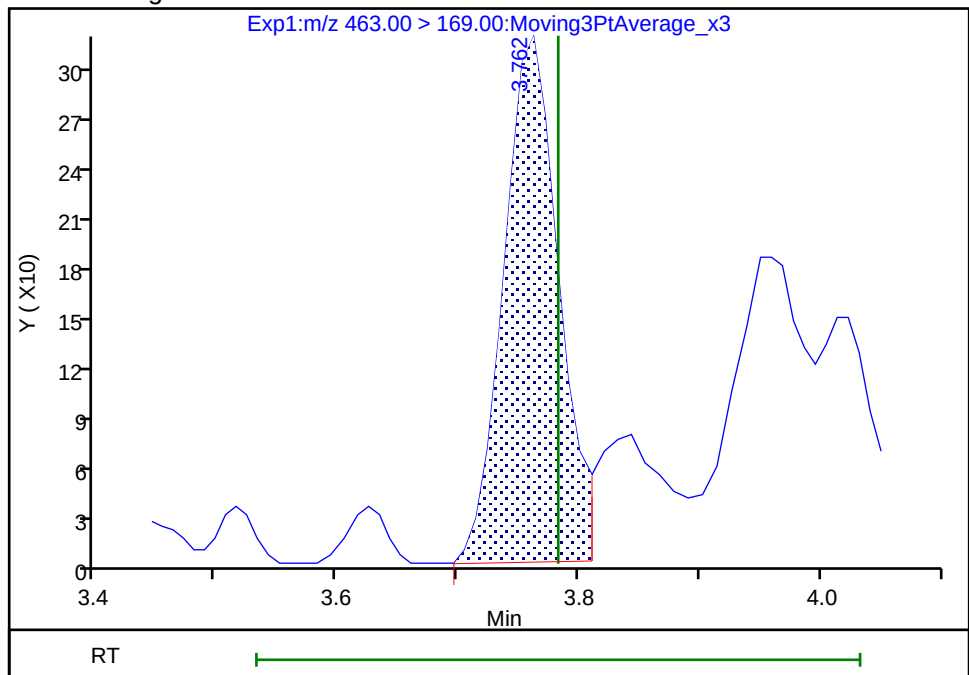
Signal: 2

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.76
Area: 993
Amount: 0.002381
Amount Units: ng/ml

Reviewer: Z1IP, 06-Jan-2023 10:04:45

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

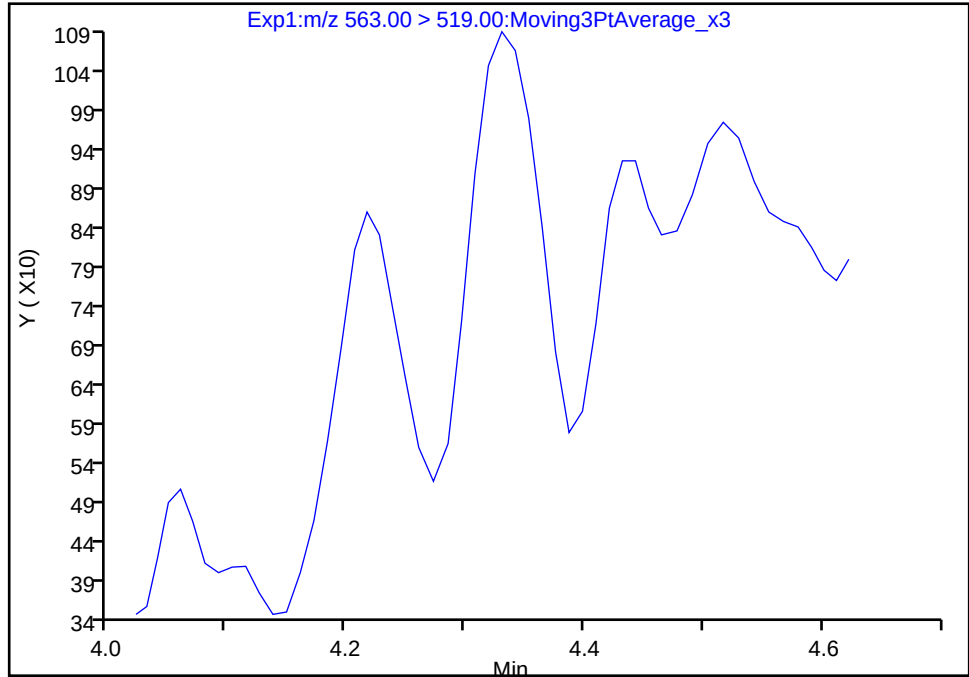
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

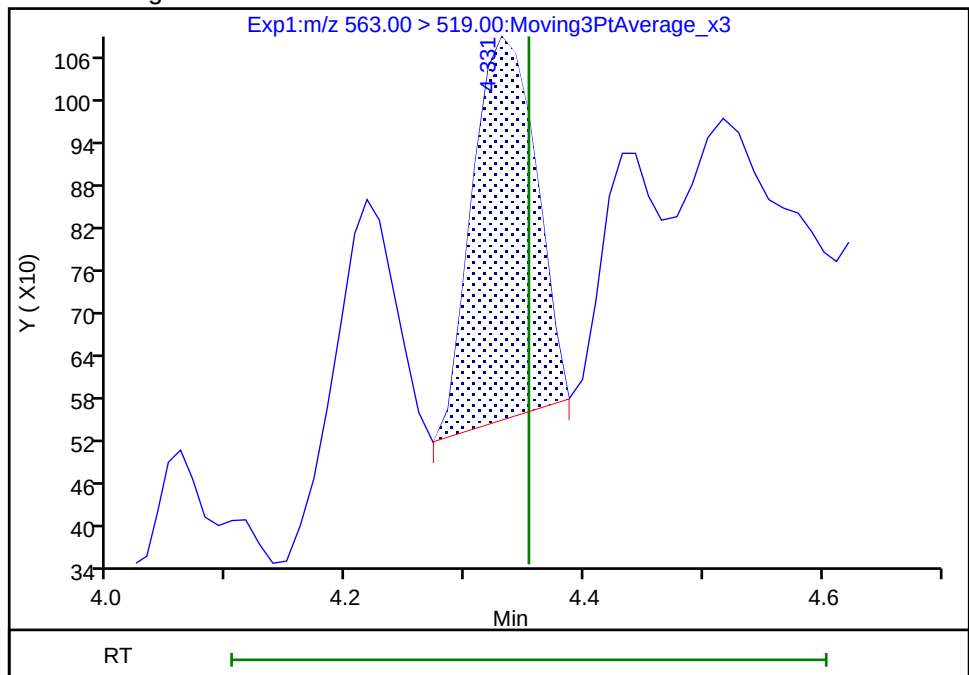
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.33
Area: 2003
Amount: 0.001052
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:12:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

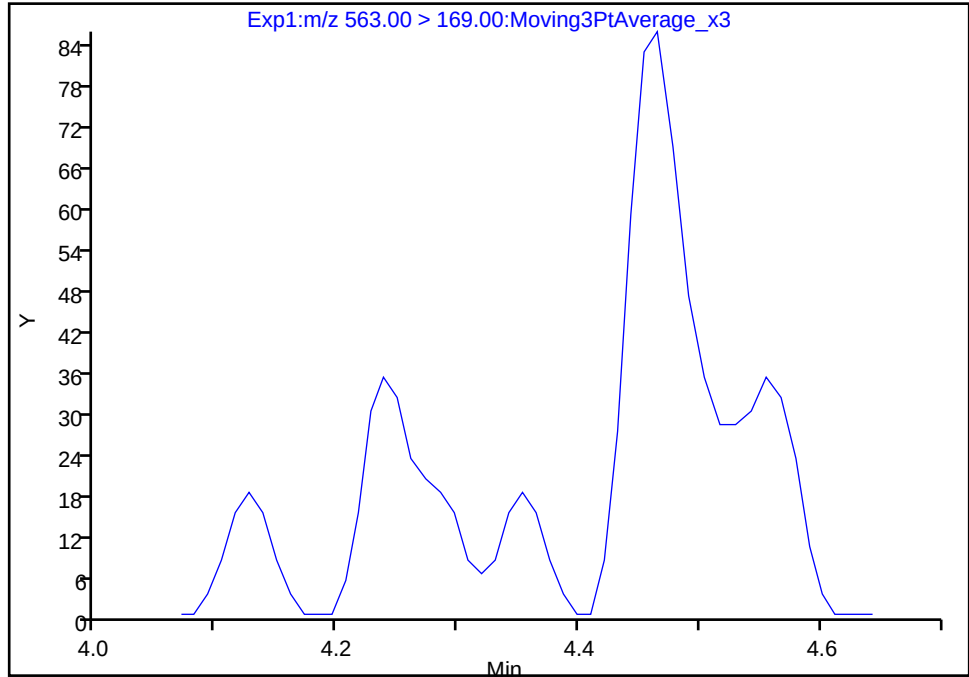
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

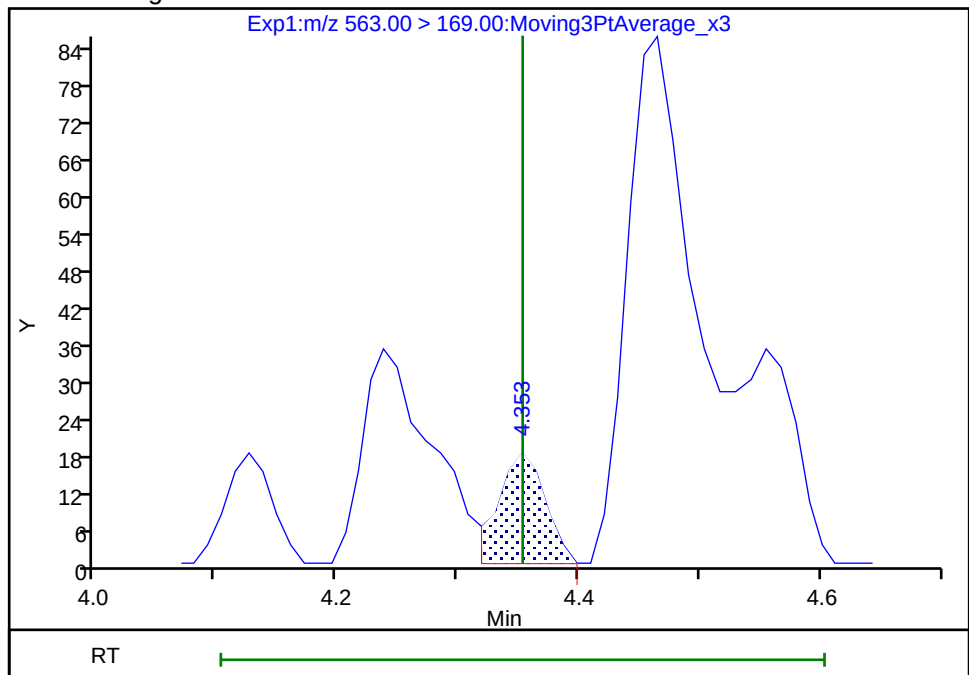
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 47
Amount: 0.001052
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:12:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

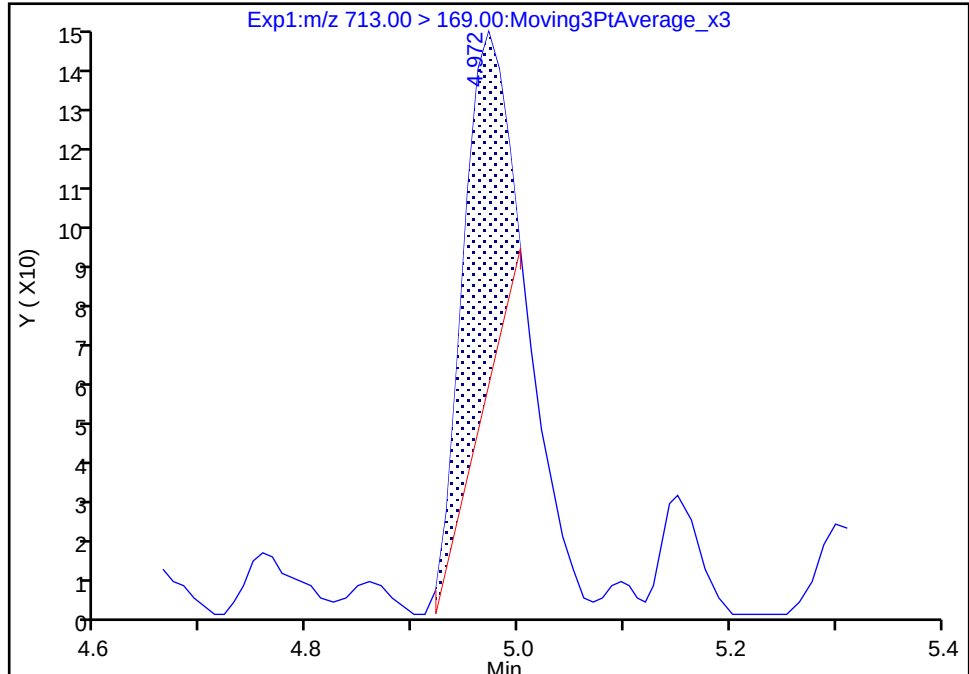
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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

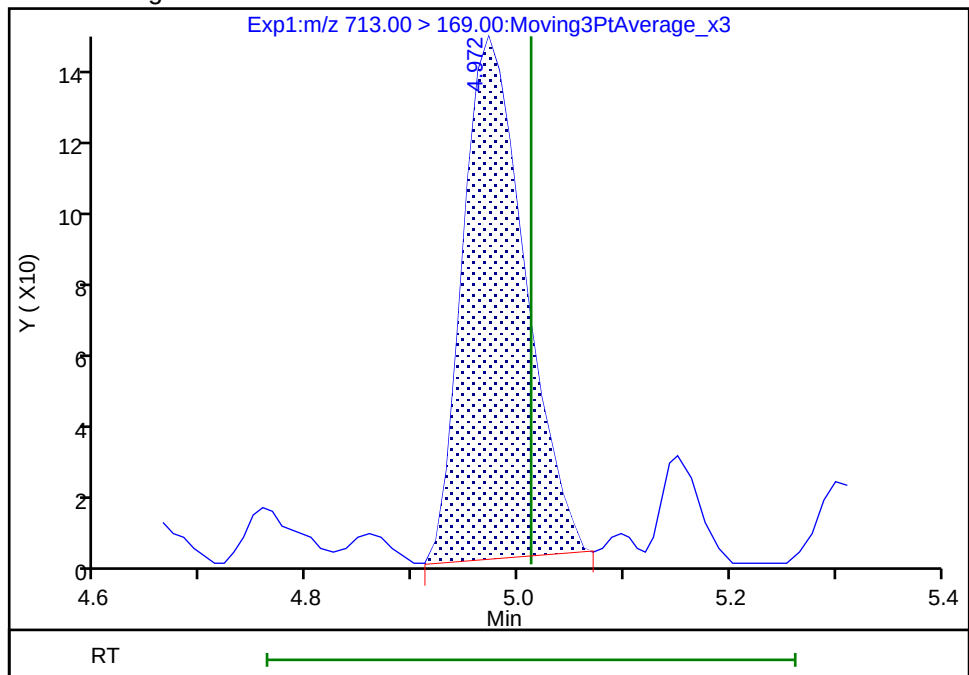
RT: 4.97
Area: 241
Amount: 0.001064
Amount Units: ng/ml

Processing Integration Results



RT: 4.97
Area: 575
Amount: 0.002538
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:12:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

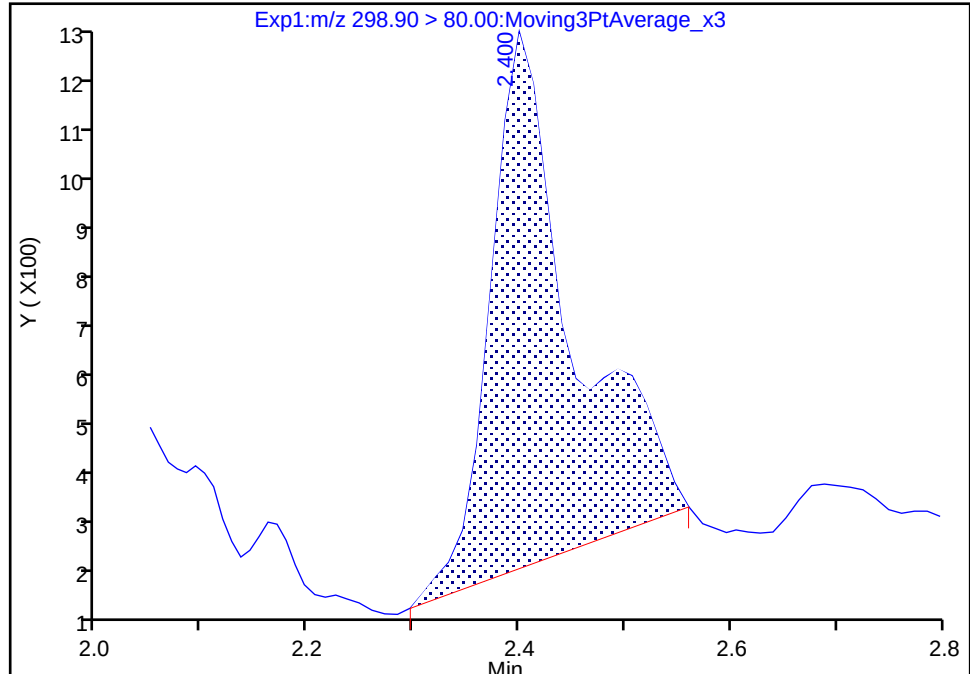
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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

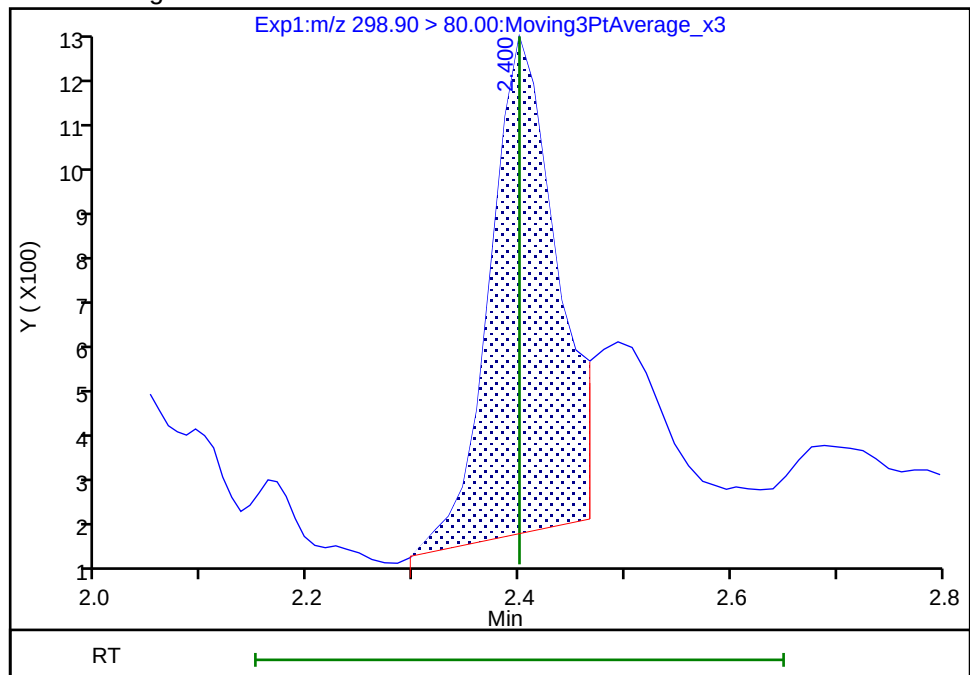
RT: 2.40
Area: 5570
Amount: 0.002657
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4607
Amount: 0.002197
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:10:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

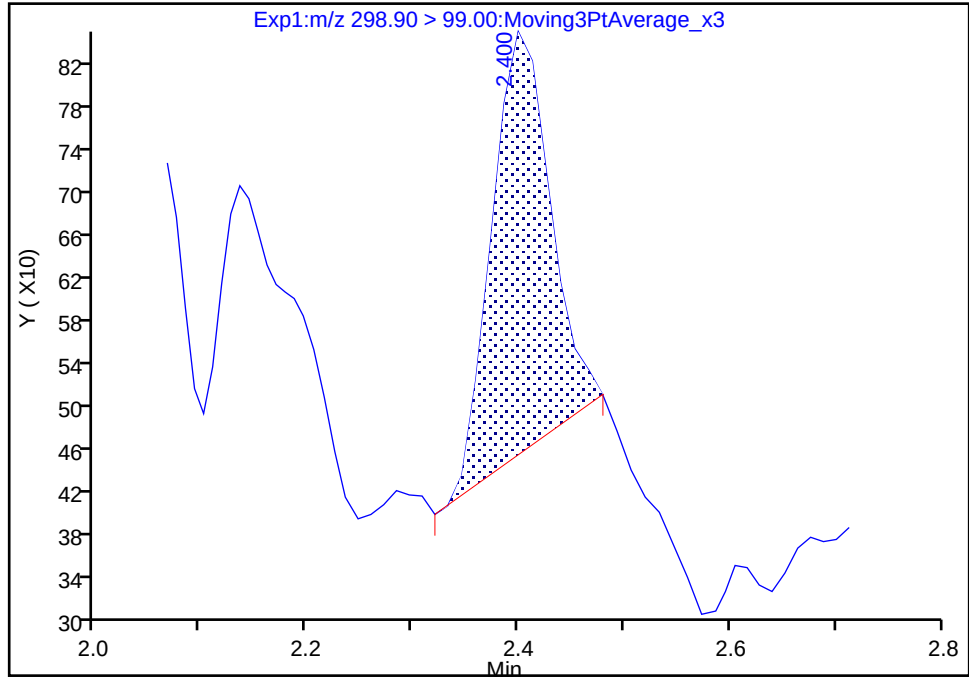
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

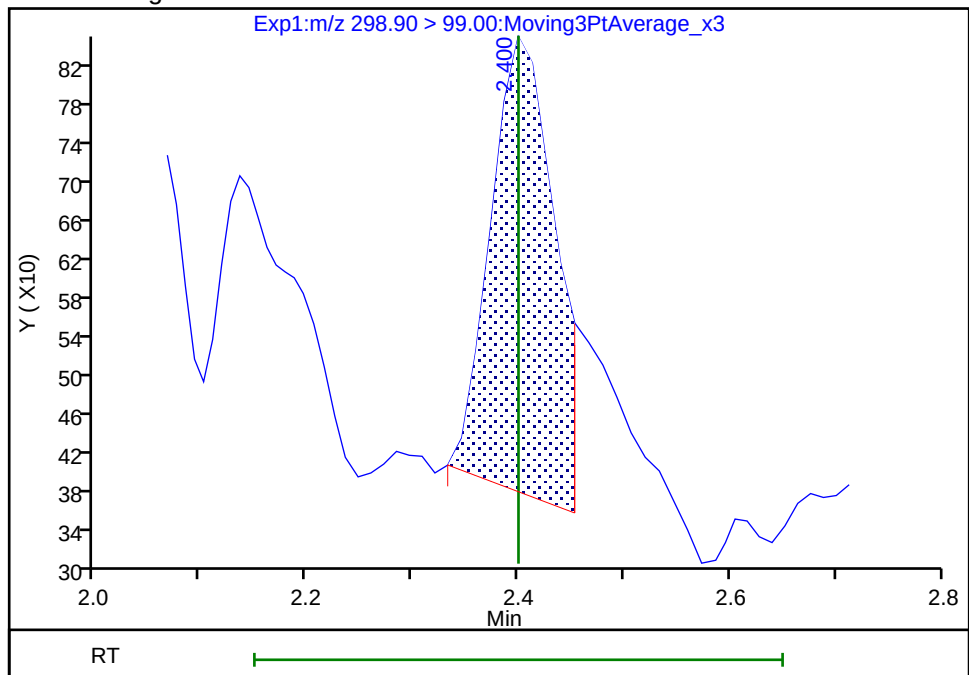
RT: 2.40
Area: 1499
Amount: 0.002657
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1932
Amount: 0.002197
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:10:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

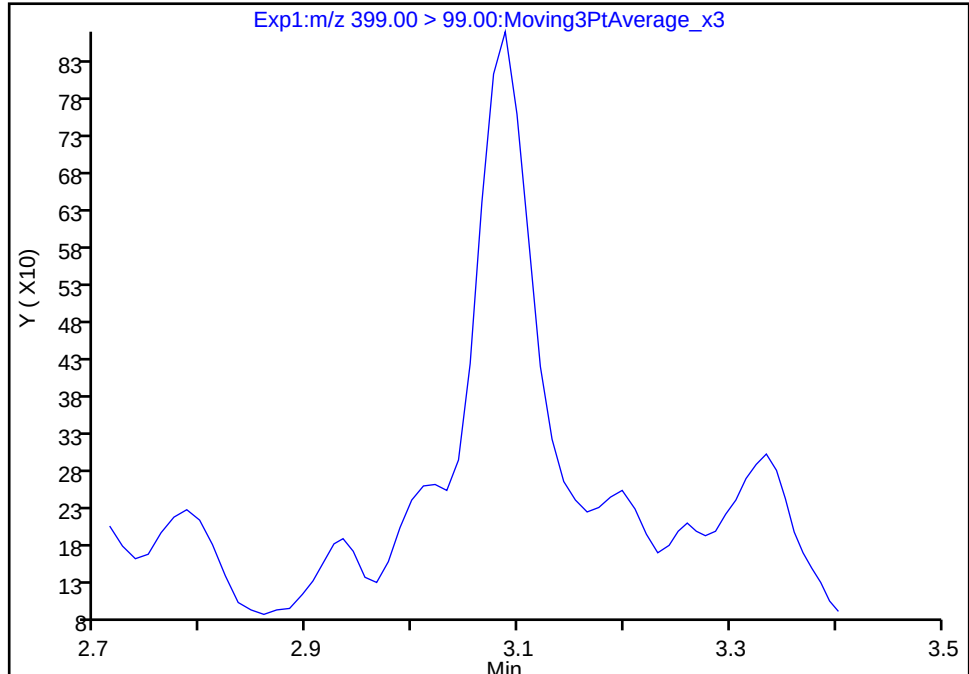
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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

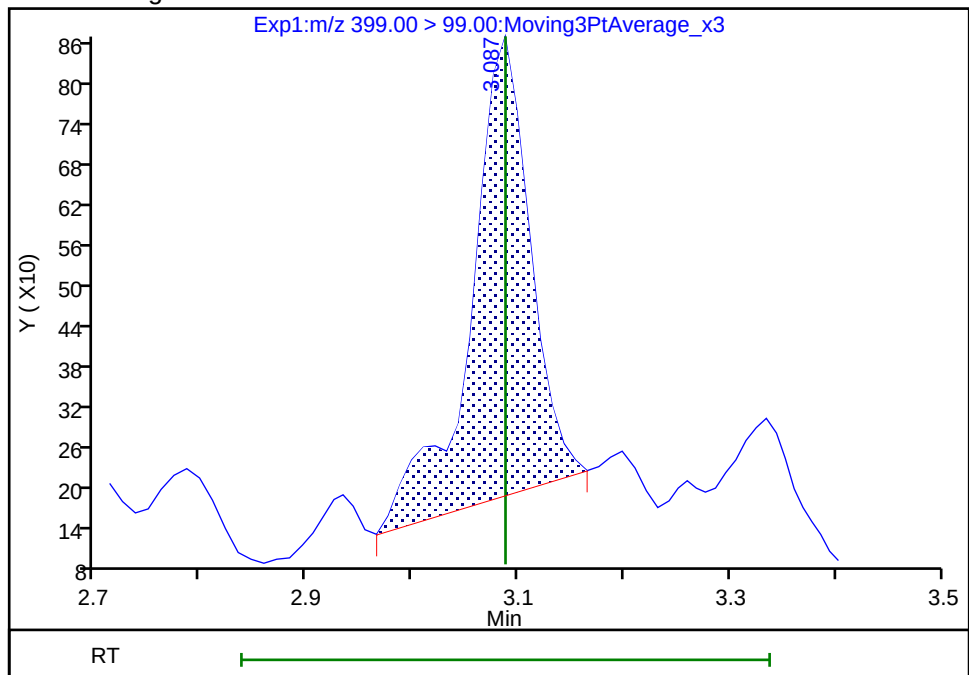
Signal: 2

Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 2666
Amount: 0.005231
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:11:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

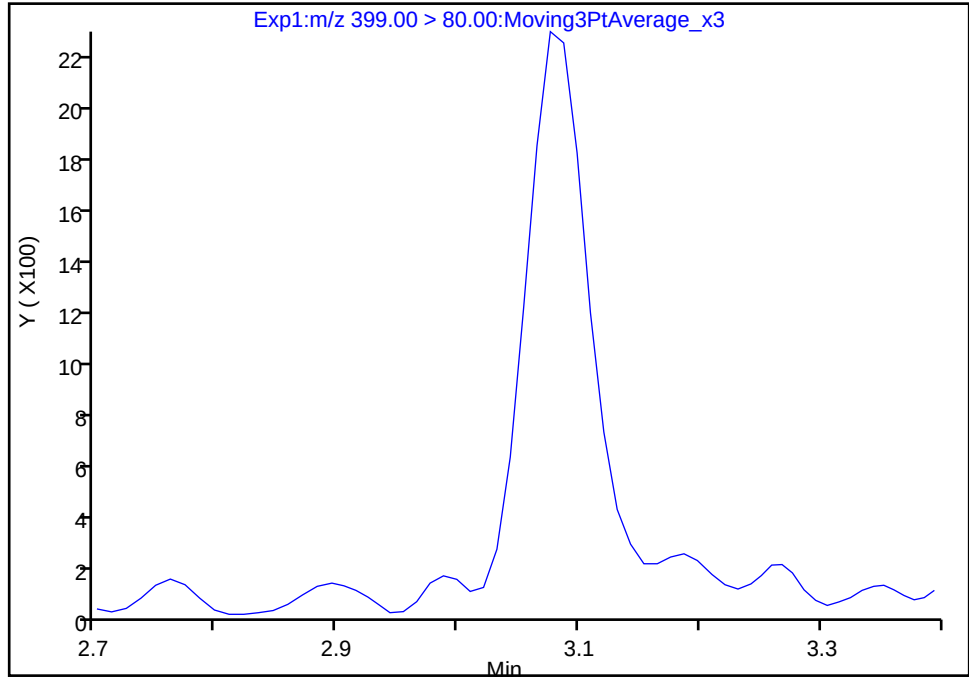
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

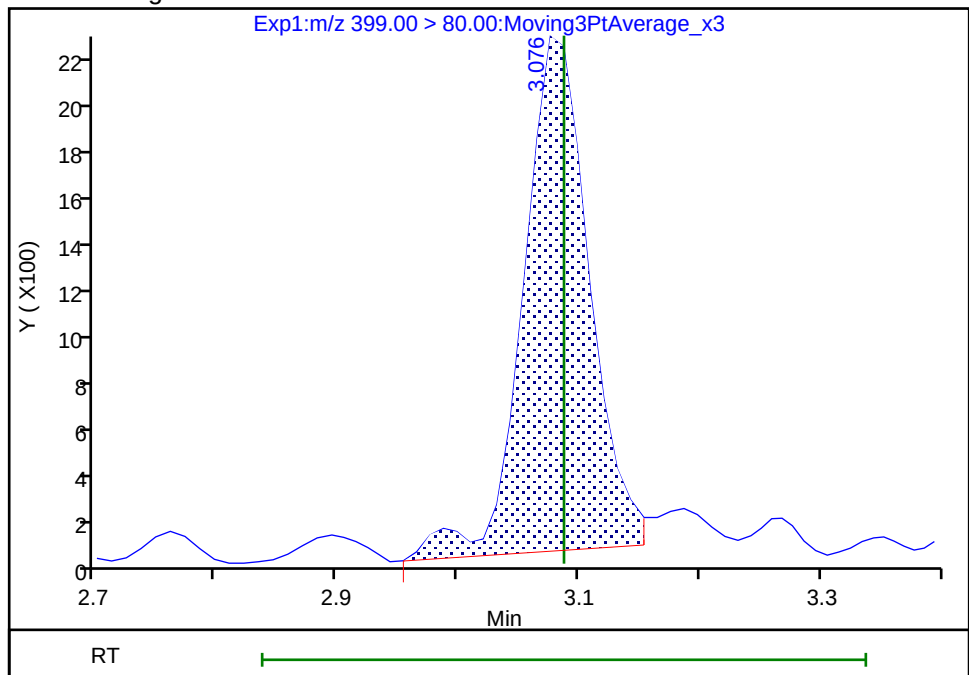
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 8075
Amount: 0.005231
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:11:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

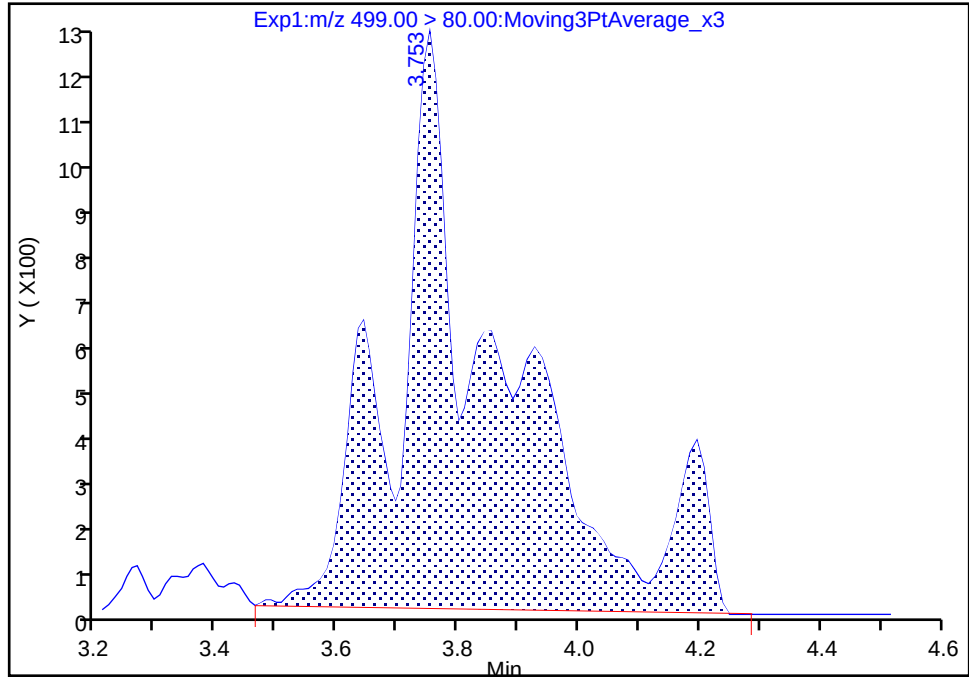
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

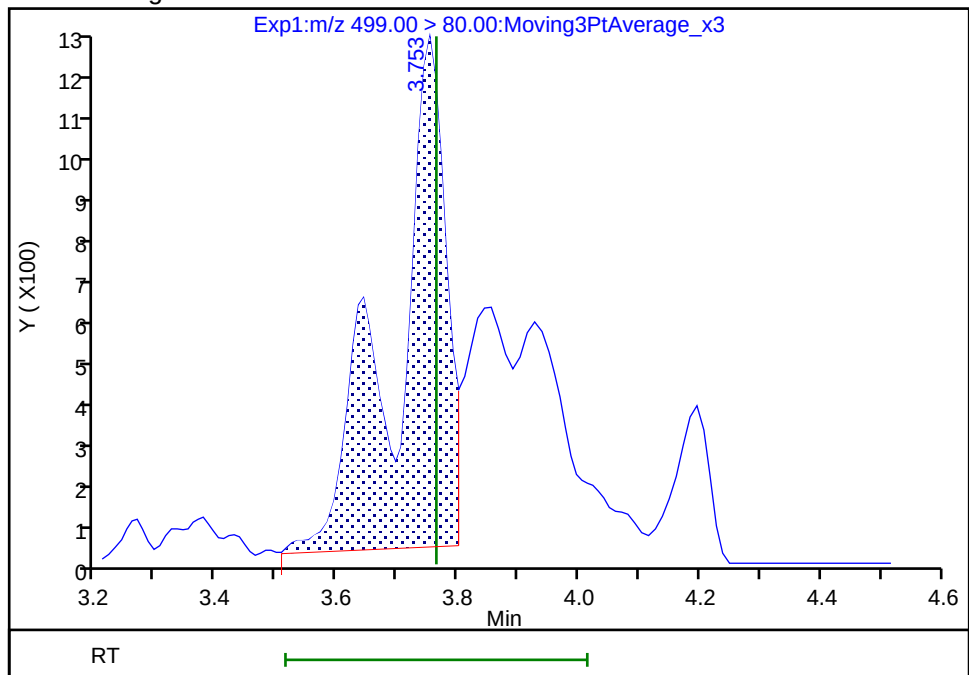
RT: 3.75
Area: 15619
Amount: 0.014902
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 7133
Amount: 0.006805
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:11:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

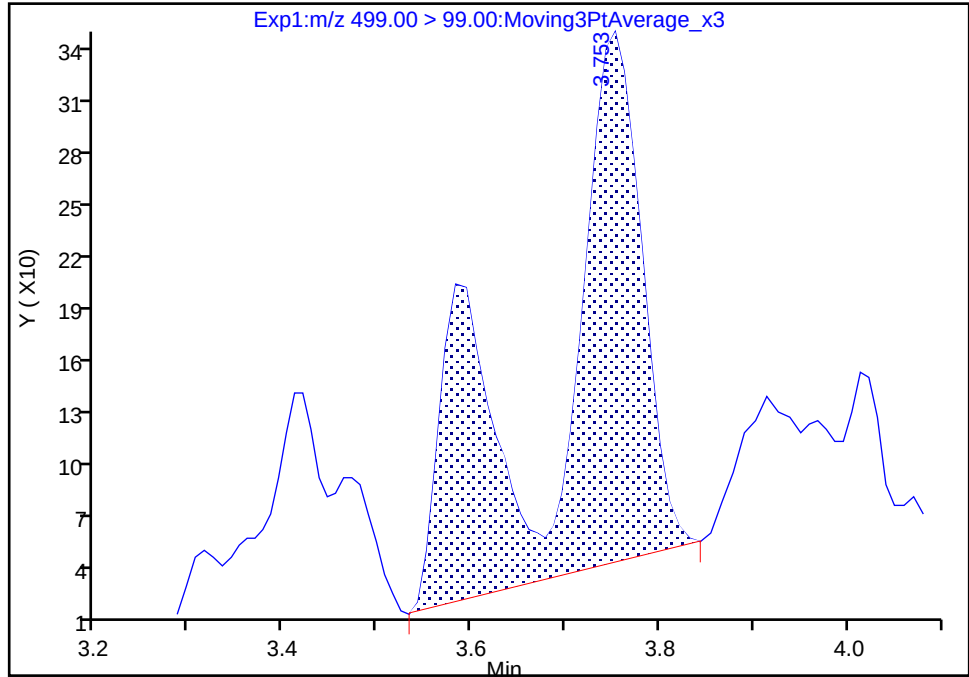
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

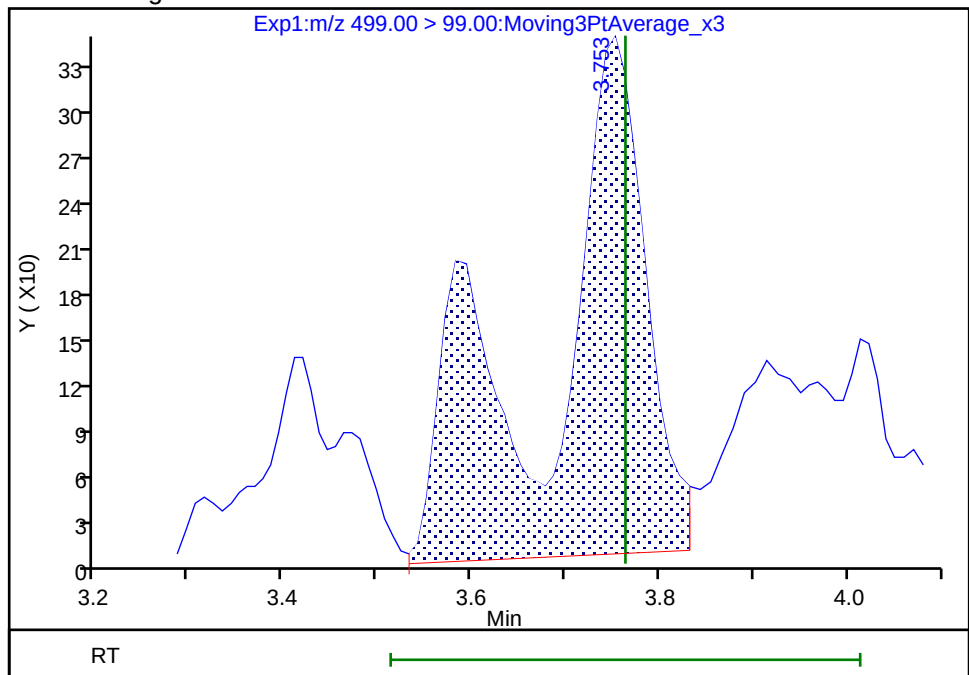
RT: 3.75
Area: 2056
Amount: 0.014902
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 2454
Amount: 0.006805
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:12:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

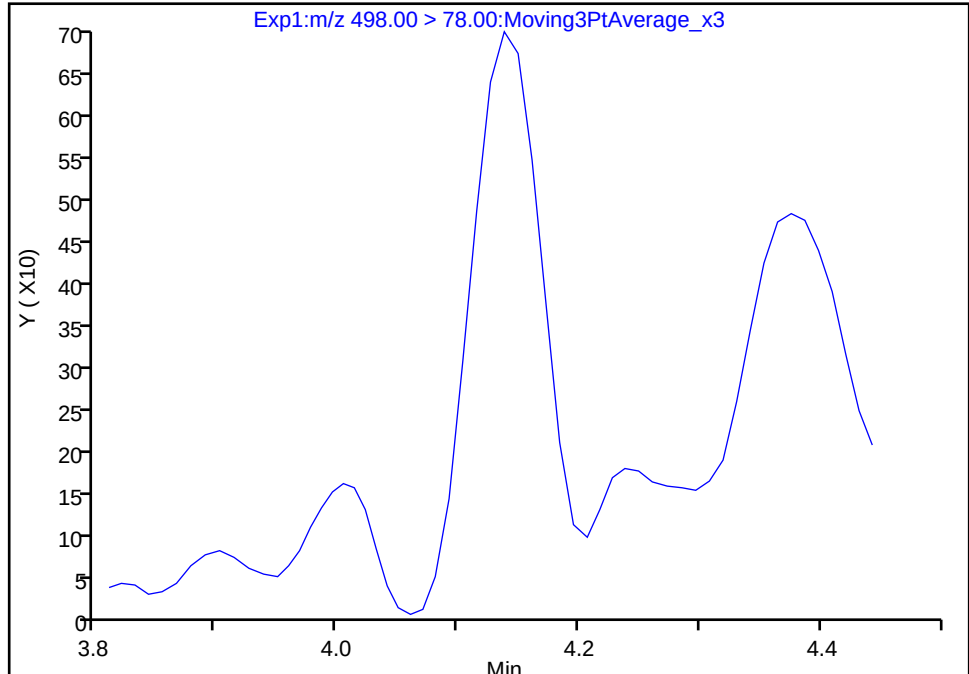
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

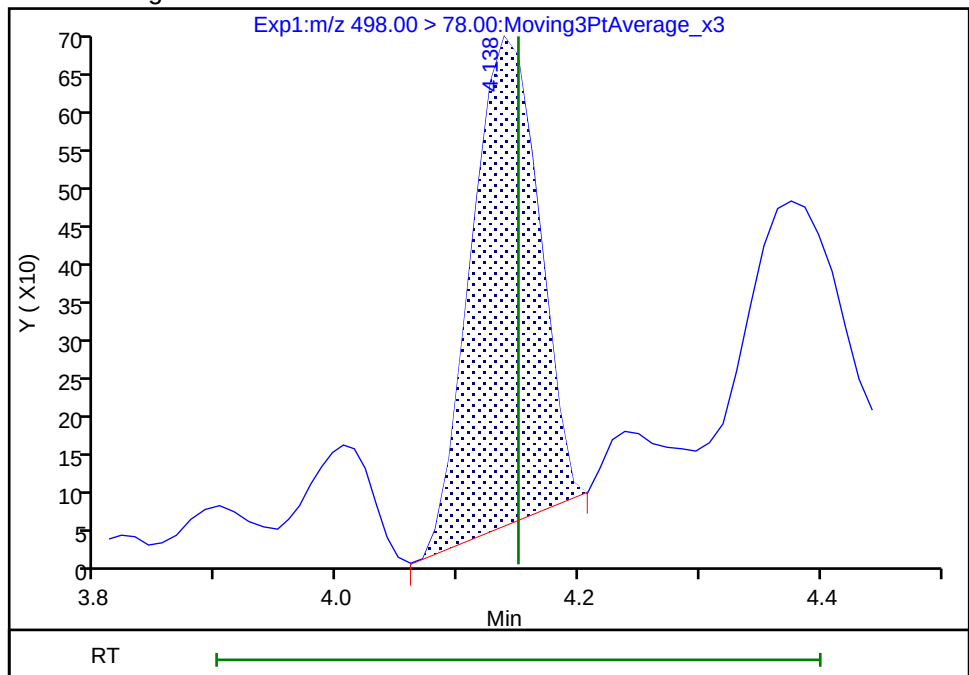
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.14
Area: 2510
Amount: 0.001609
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:12:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

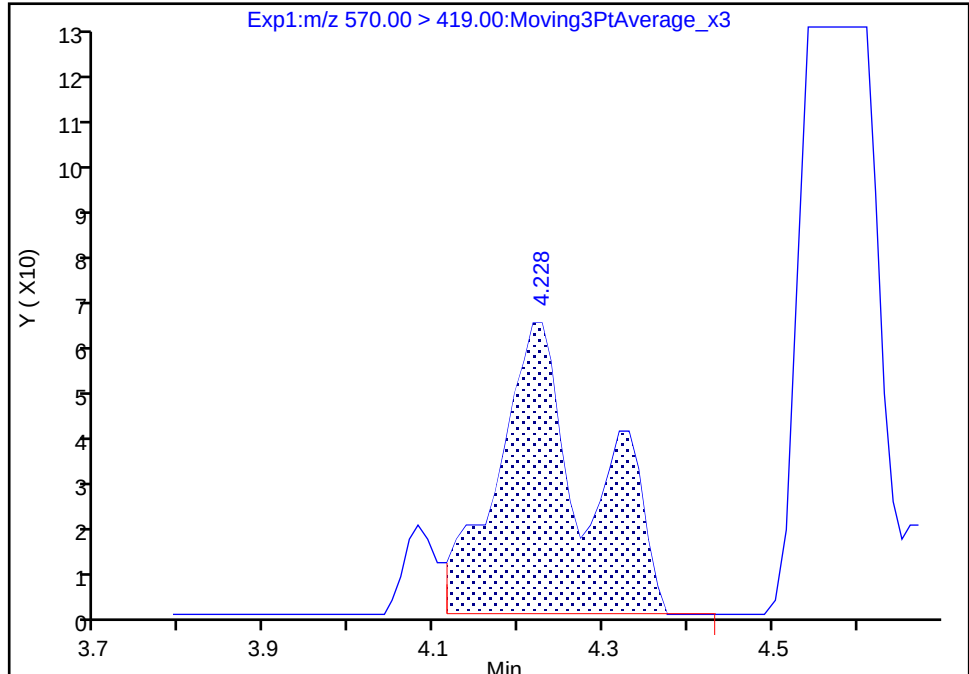
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d
Injection Date: 05-Jan-2023 18:05:40 Instrument ID: LC812
Lims ID: 460-271908-A-3-A Lab Sample ID: 200-271908-3
Client ID: BCS-09-66_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 25
Injection Vol: 20.0 ul 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

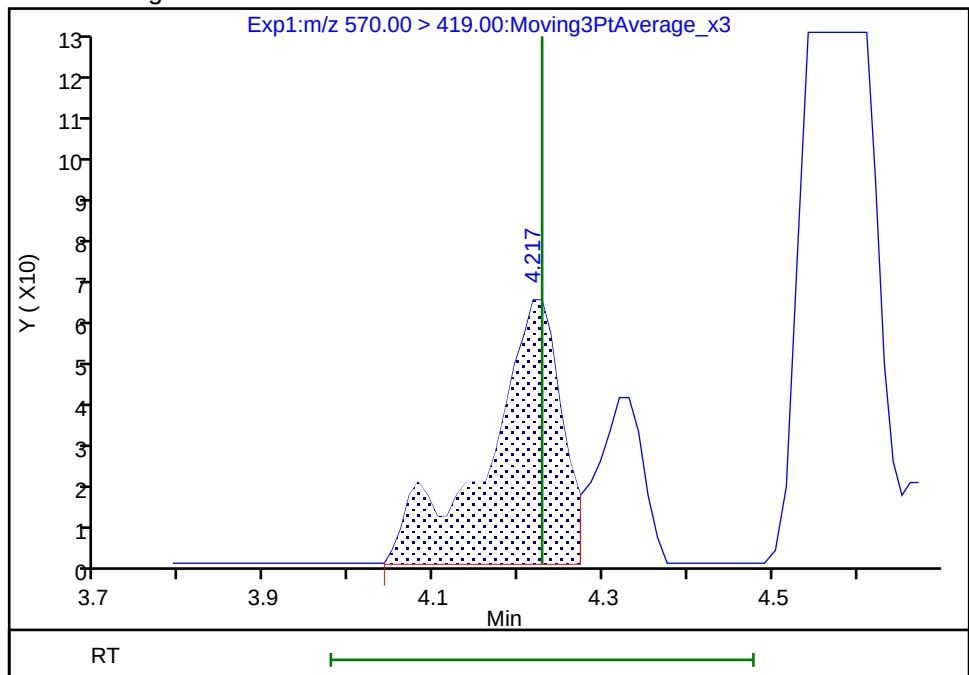
RT: 4.23
Area: 470
Amount: -0.010282
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 375
Amount: -0.010554
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:12:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

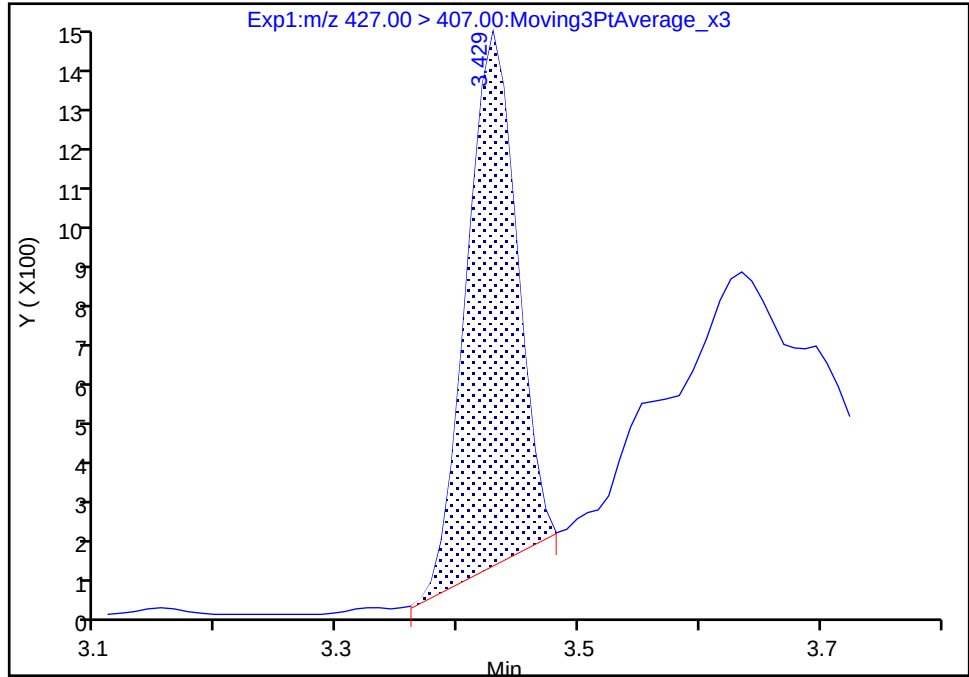
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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

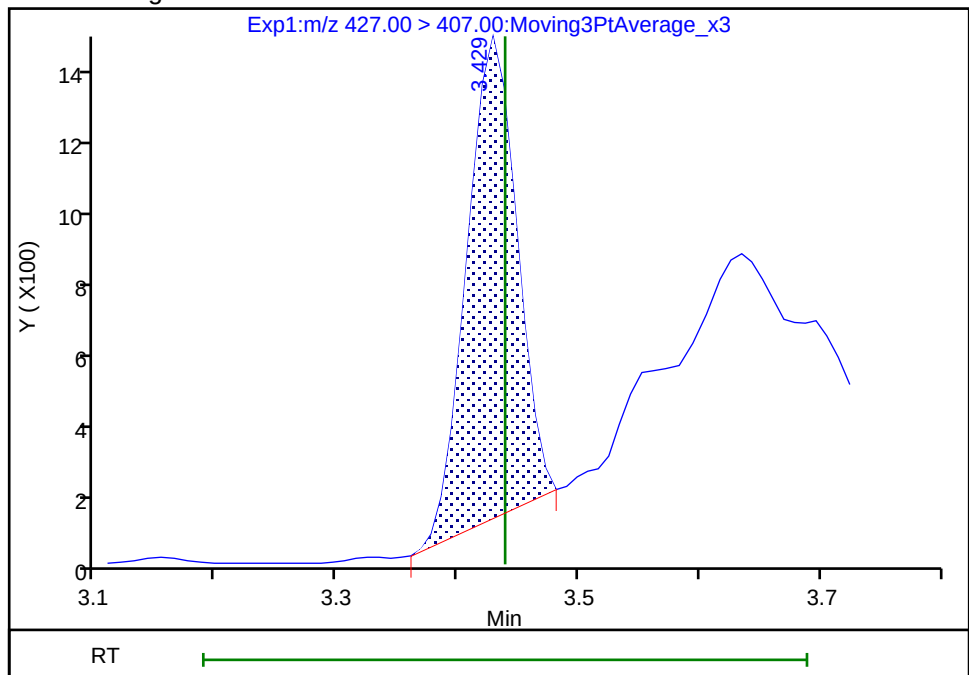
RT: 3.43
Area: 3964
Amount: -0.004851
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 3939
Amount: -0.004895
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:11:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

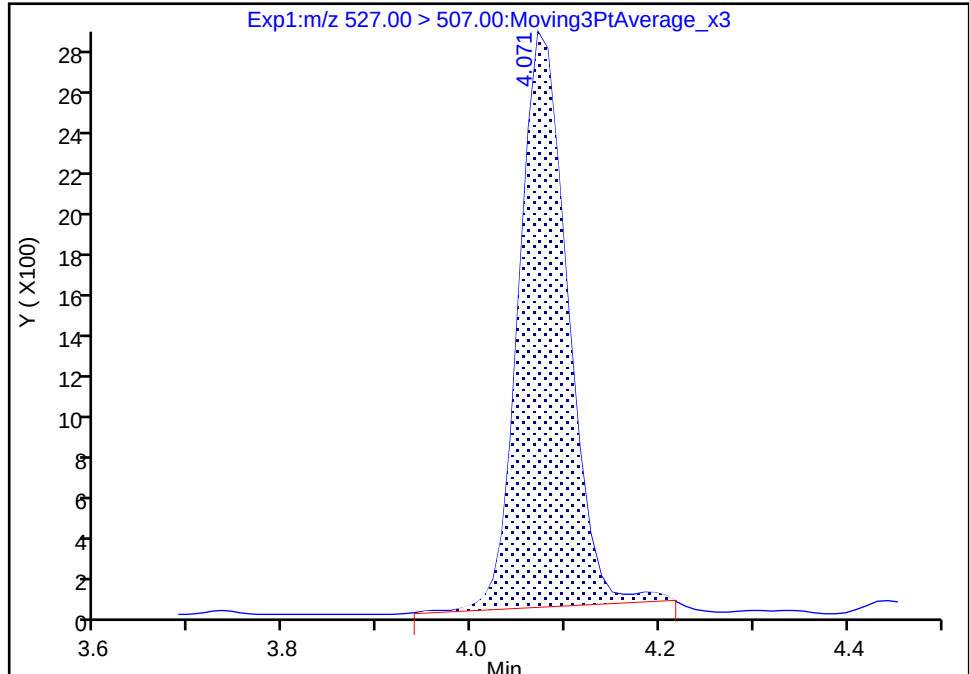
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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

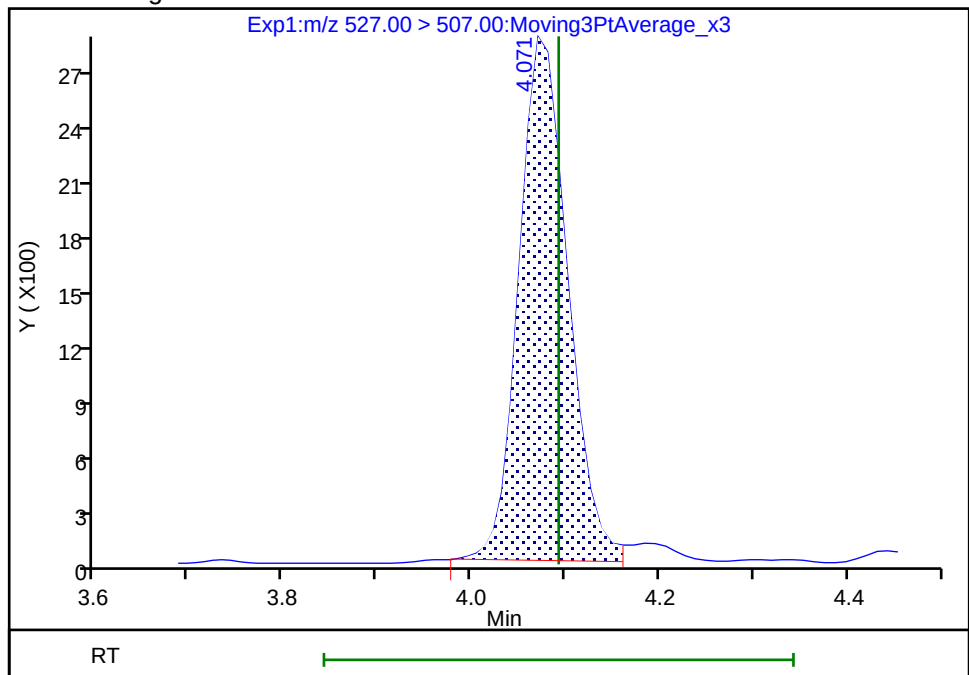
RT: 4.07
Area: 10132
Amount: 0.020721
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 10185
Amount: 0.020830
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:12:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

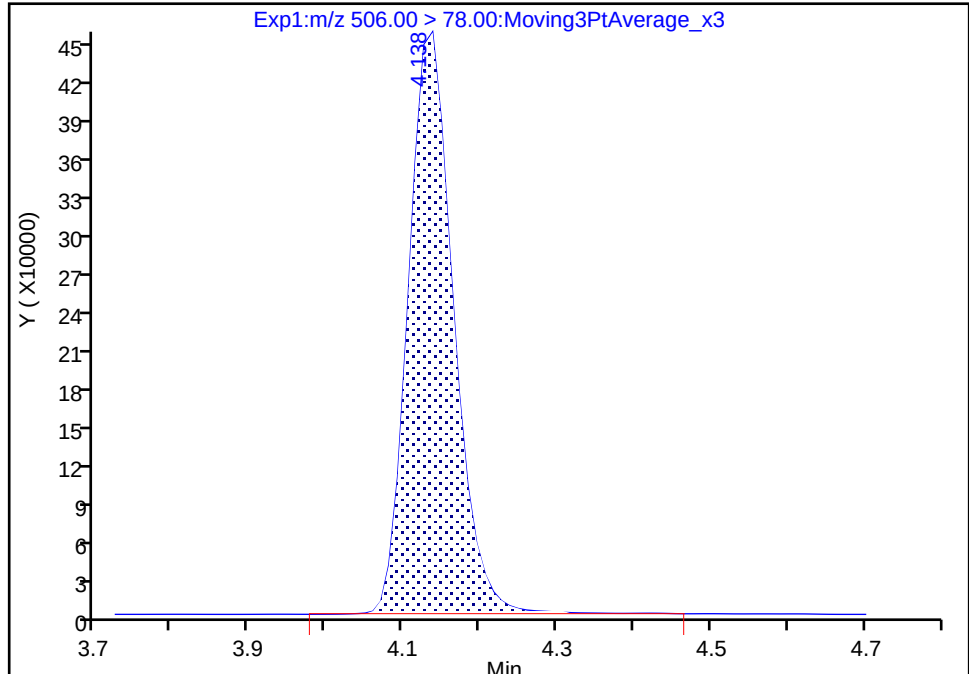
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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 21 13C8 FOSA, CAS: STL01056

Signal: 1

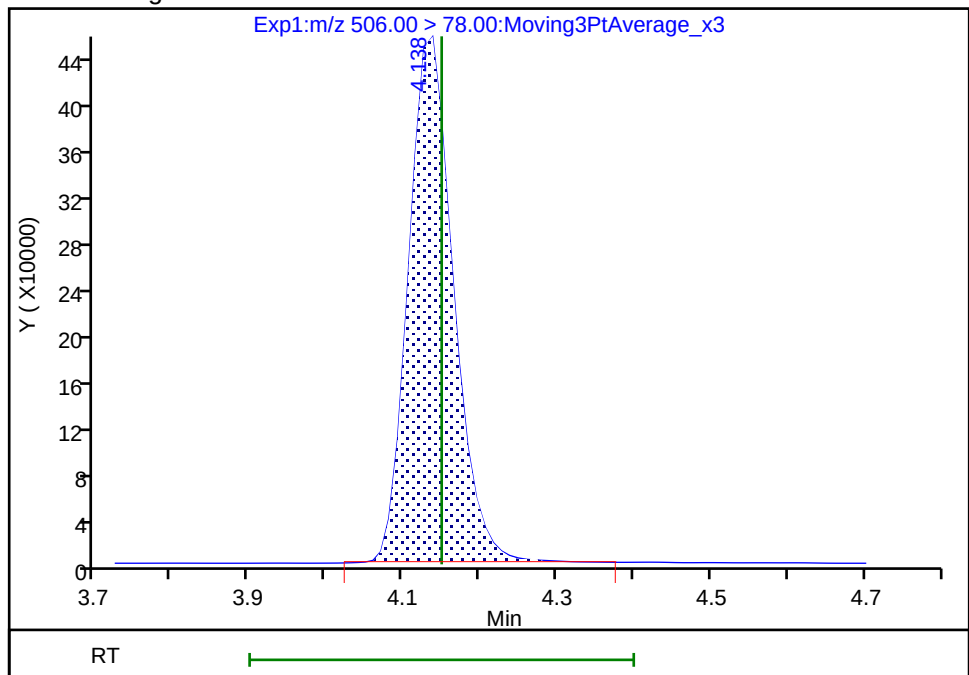
RT: 4.14
Area: 1875221
Amount: 0.935364
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 1866969
Amount: 0.931248
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:10:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

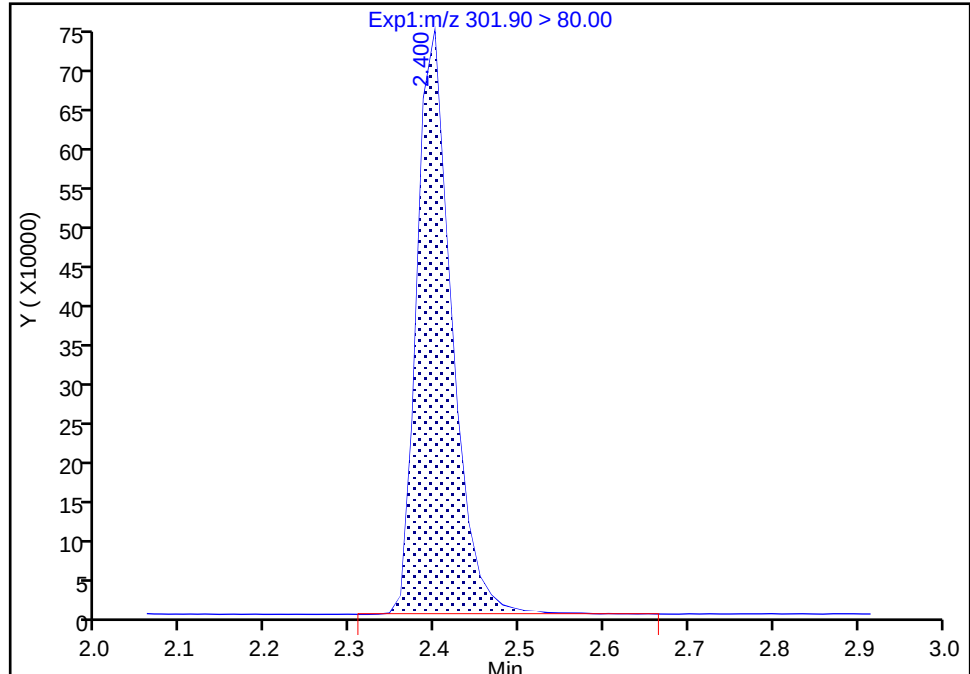
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A25.d				
Injection Date:	05-Jan-2023 18:05:40	Instrument ID:	LC812		
Lims ID:	460-271908-A-3-A	Lab Sample ID:	200-271908-3		
Client ID:	BCS-09-66_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	25
Injection 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

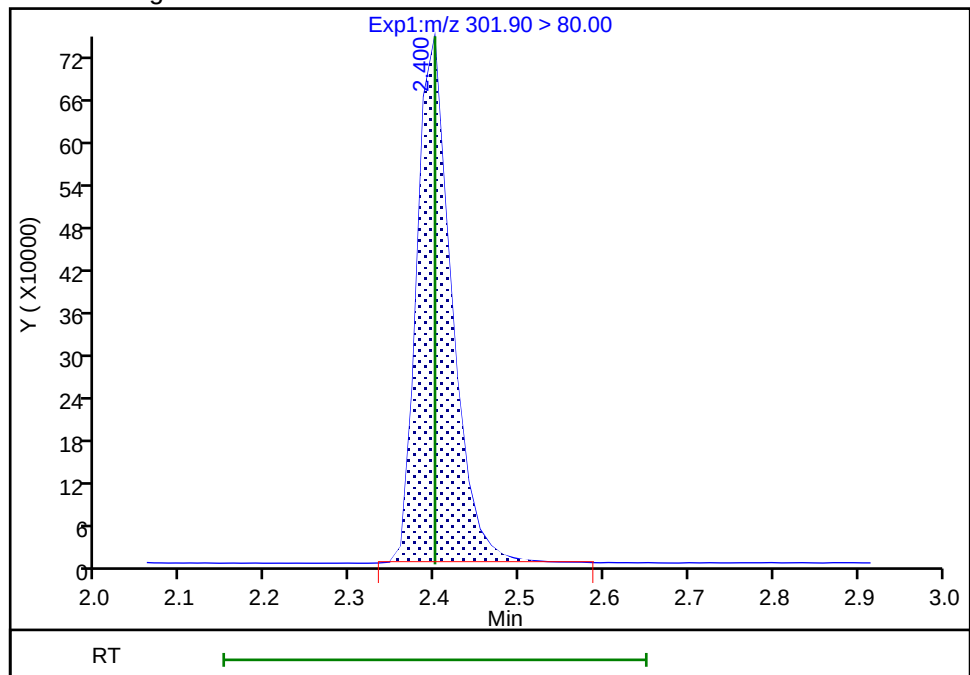
RT: 2.40
Area: 2138866
Amount: 0.965890
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2130296
Amount: 0.962019
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:09:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: BCS-09-67_(12-12.5)P Lab Sample ID: 460-271908-4

Matrix: Solid Lab File ID: PA230105A26.d

Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:35

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.05(g) Date Analyzed: 01/05/2023 18:13

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

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 26.3 % Solids: 73.7 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.67	U	0.67	0.44
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.074
307-24-4	Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.062
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.052
335-67-1	Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.078
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046
335-76-2	Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.036
307-55-1	Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.044
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.055
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.69	U	2.69	0.15
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.69	U	2.69	0.11
27619-97-2	6:2 FTS	2.69	U	2.69	0.077
39108-34-4	8:2 FTS	2.69	U	2.69	0.050

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: BCS-09-67_(12-12.5)P Lab Sample ID: 460-271908-4
 Matrix: Solid Lab File ID: PA230105A26.d
 Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:35
 Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24
 Sample wt/vol: 5.05(g) Date Analyzed: 01/05/2023 18:13
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 26.3 % Solids: 73.7 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	84		50-150
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	93		50-150
STL00991	13C4 PFOS	82		50-150
STL00995	13C5 PFNA	95		50-150
STL00992	13C4 PFBA	81		50-150
STL00993	13C2 PFHxA	87		50-150
STL00996	13C2 PFDA	104		50-150
STL00997	13C2 PFUnA	98		50-150
STL00998	13C2 PFDoA	89		50-150
STL01056	13C8 FOSA	81		50-150
STL01893	13C5 PFPeA	84		50-150
STL02116	13C2 PFTeDA	86		50-150
STL02118	d3-NMeFOSAA	90		50-150
STL02117	d5-NEtFOSAA	89		50-150
STL02279	M2-6:2 FTS	99		50-150
STL02280	M2-8:2 FTS	98		50-150
STL02337	13C3 PFBS	82		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
 Lims ID: 460-271908-A-4-A
 Client ID: BCS-09-67_(12-12.5)P
 Sample Type: Client
 Inject. Date: 05-Jan-2023 18:13:52 ALS Bottle#: 23 Worklist Smp#: 26
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271908-A-4-A
 Misc. Info.: 200-0053906-026 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:19:30 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 14:17:15

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	2.076	0.009	0.606	2681103	1.02		81.5	9134	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.004	92525	0.0418			6.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.694	2096080	1.05		83.6	3068	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.387	-0.014	0.994	26736	0.0146			0.6	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.698	2074001	0.9519		81.9	143597	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4125	0.002021	Target=2.09		3.5	M
298.90 > 99.00	2.400	2.400	0.0	1.000	2420		1.70(1.04-3.13)		1.2	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.792	2297882	1.09		87.5	3218	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	30336	0.0151	Target=14.25		3.8	M
313.00 > 119.00	2.713	2.725	-0.012	0.996	1975		15.36(7.12-21.37)		2.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.076	3.088	-0.012	0.895	1570093	0.9892		83.7	2126	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.087	3.088	-0.001	1.004	7682	0.005126	Target=3.66		15.3	M
399.00 > 99.00	3.076	3.088	-0.012	1.000	3542		2.17(1.83-5.49)		4.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.898	2449671	1.13		90.7	4619	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.087	3.099	-0.012	1.000	16517	0.007741	Target=3.97		2.9	
363.00 > 169.00	3.087	3.099	-0.012	1.000	3151		5.24(1.98-5.95)		5.1	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	3.421	3.439	-0.018	0.995	311675	1.17		98.6	787	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.430	3.439	-0.009	1.003	1112	-0.009867			1.2	M
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.448	-0.009	1.000	2816437	1.16		92.7	6279	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.448	-0.009		2934345	1.25			5122	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.439	3.448	-0.009	1.000	25156	0.0104	Target=2.79		1.7	M
413.00 > 169.00	3.439	3.448	-0.009	1.000	10188		2.47(1.40-4.19)		9.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.744	3.764	-0.020	1.089	1057270	0.9817		82.2	2098	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.754	3.764	-0.010	1.003	7226	0.006716	Target=5.11		4.6	M
499.00 > 99.00	3.744	3.764	-0.020	1.000	1485		4.87(2.55-7.66)		2.8	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.773	3.783	-0.010	1.003	4039	0.001740	Target=8.55		1.0	M
463.00 > 169.00	3.754	3.783	-0.029	0.997	512		7.89(4.28-12.83)		3.4	M
D 19 13C5 PFNA										
468.00 > 423.00	3.764	3.783	-0.019	1.094	2797116	1.18		94.8	3693	
D 23 13C2 PFDA										
515.00 > 470.00	4.060	4.081	-0.021	1.181	3115146	1.29		104	5358	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.071	4.093	-0.022	1.184	381358	1.17		97.8	1252	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.071	4.093	-0.022	1.000	760	0.001476			9.3	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.138	4.150	-0.012	1.003	2519	0.001515			5.7	M
D 21 13C8 FOSA										
506.00 > 78.00	4.127	4.150	-0.023	1.200	1989042	1.01		80.7	3069	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.207	4.228	-0.021	1.223	553128	1.13		90.3	2945	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.195	4.228	-0.033	0.997	873	-0.009333			3.8	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.308	4.331	-0.023	1.150	804	0.001254	Target=2.51		6.5	M
599.00 > 99.00	4.319	4.331	-0.012	1.153	493		1.63(1.25-3.76)		4.3	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.330	4.353	-0.023	1.259	2693965	1.22		97.8	4617	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.342	4.353	-0.011	1.003	2498	0.001150	Target=9.88		1.2	
563.00 > 169.00	4.342	4.353	-0.011	1.003	352		7.10(4.94-14.82)		5.6	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.330	4.365	-0.035	0.997	658	0.001706			5.4	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.342	4.365	-0.023	1.263	538418	1.12		89.3	967	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.567	4.591	-0.024	1.000	3041	0.001439	Target=7.77	0.4		
613.00 > 169.00	4.567	4.591	-0.024	1.000	625		4.87(3.89-11.66)	6.4		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.567	4.591	-0.024	1.328	2492586	1.11		88.8	3824	
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.776	4.804	-0.028	1.046	2218	0.001098	Target=5.21	0.3		R
663.00 > 169.00	4.776	4.804	-0.028	1.046	259		8.56(2.60-7.81)	2.5		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.972	5.012	-0.040	1.000	465	0.002032	Target=0.89	5.3		M
713.00 > 219.00	4.972	5.012	-0.040	1.000	579		0.80(0.44-1.33)	7.3		
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	5.012	-0.040	1.446	2089901	1.08		86.1	4972	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d

Injection Date: 05-Jan-2023 18:13:52

Instrument ID: LC812

Lims ID: 460-271908-A-4-A

Lab Sample ID: 200-271908-4

Client ID: BCS-09-67_(12-12.5)P

Operator ID: lc812tech

ALS Bottle#: 23

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

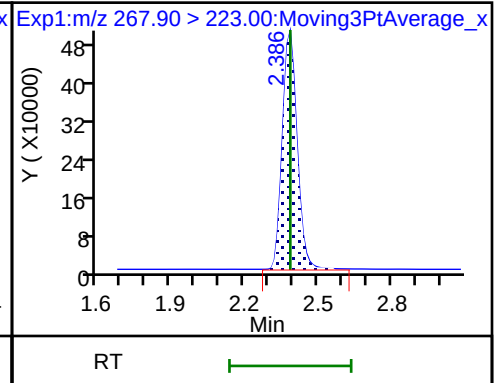
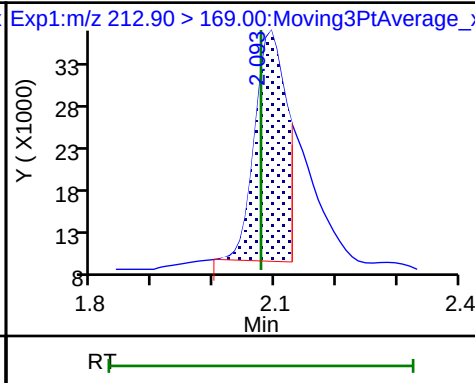
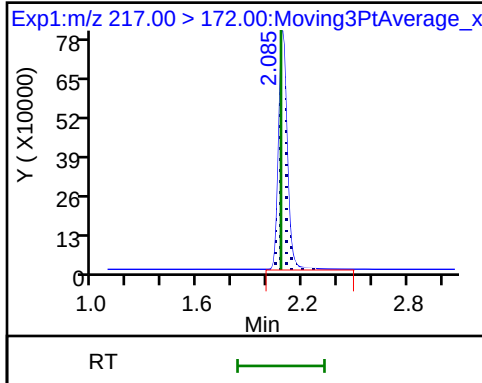
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

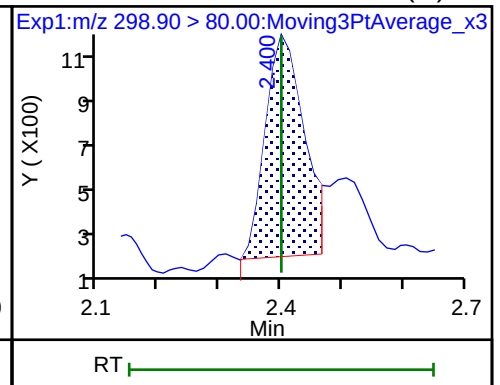
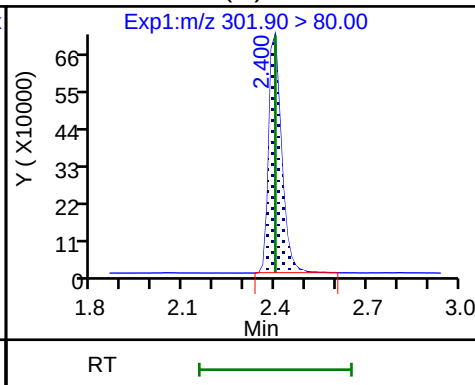
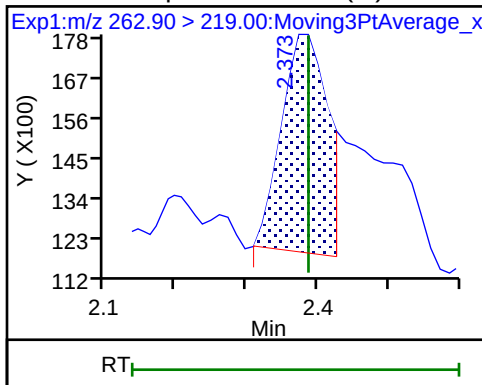
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

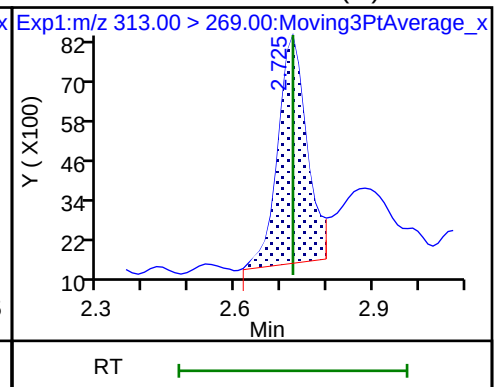
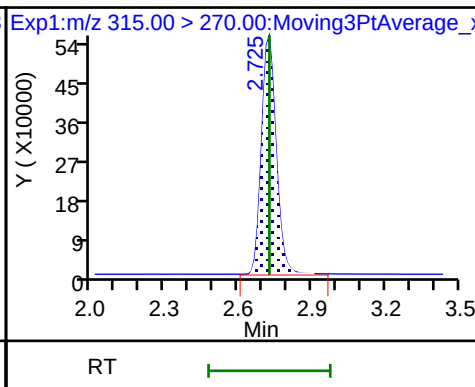
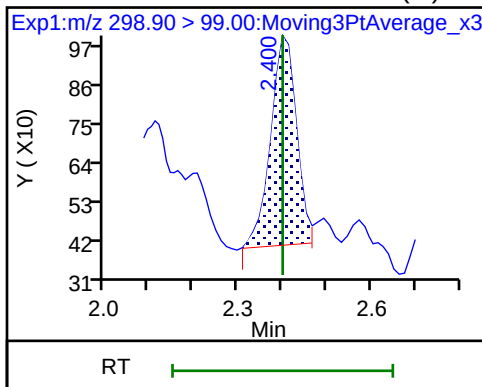
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

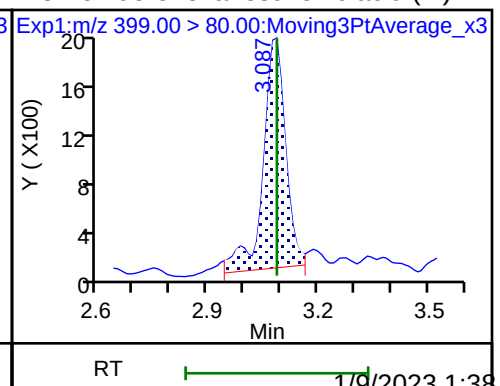
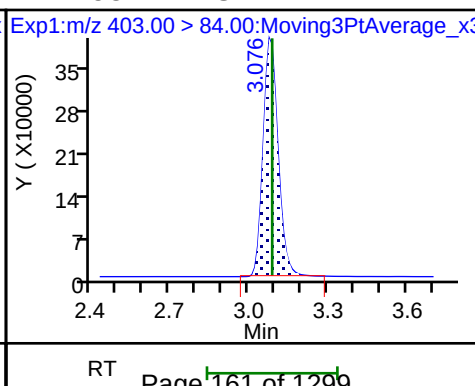
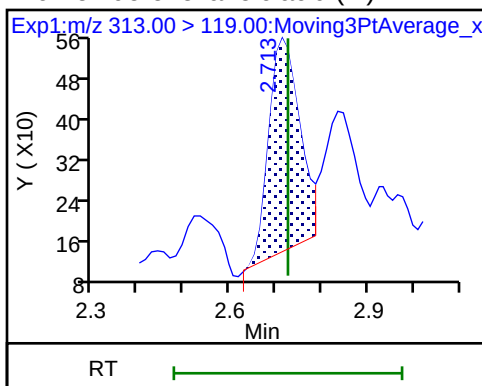
6 Perfluorohexanoic acid (M)

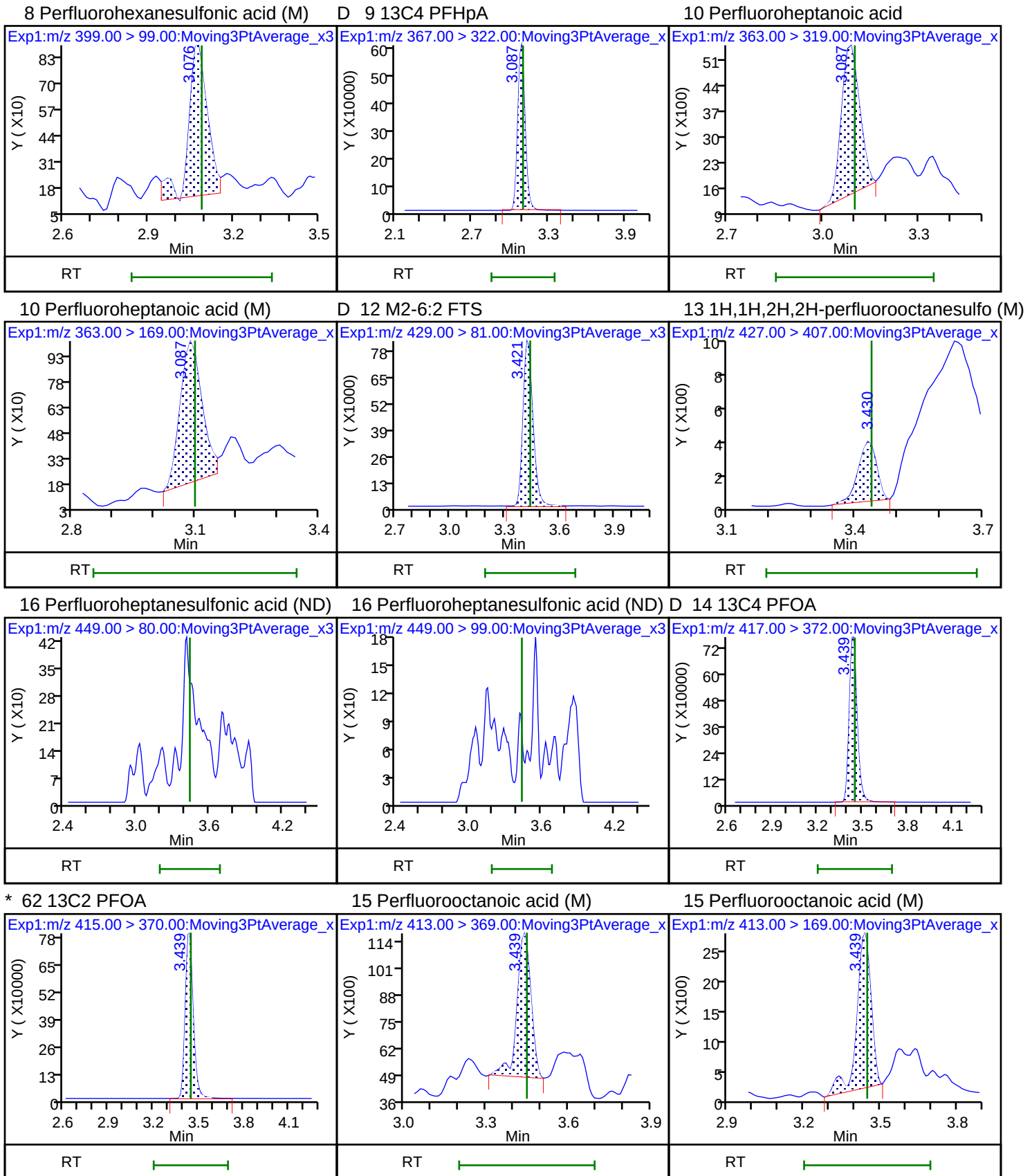


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

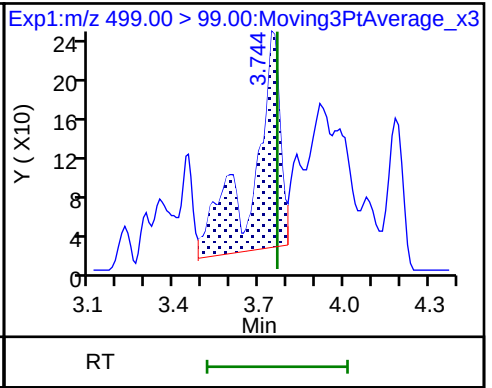
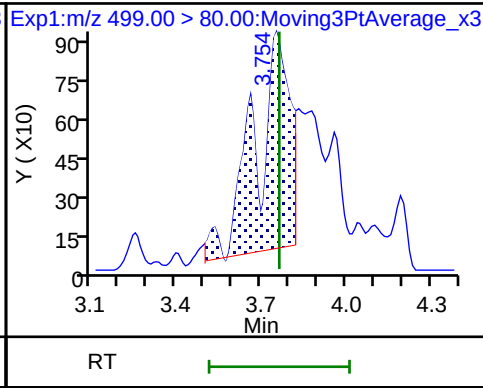
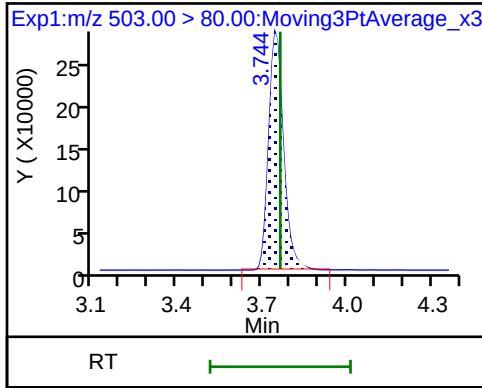




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

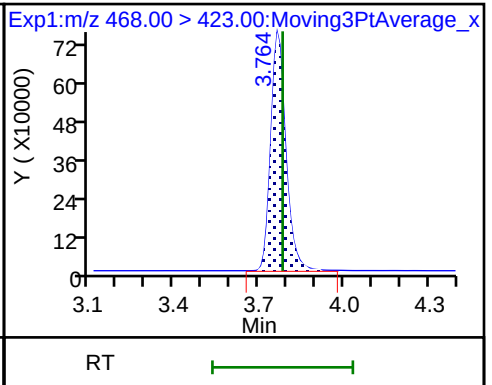
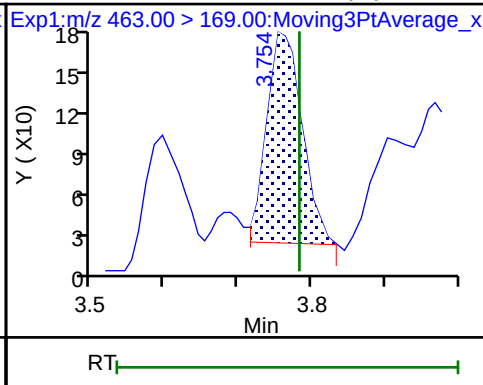
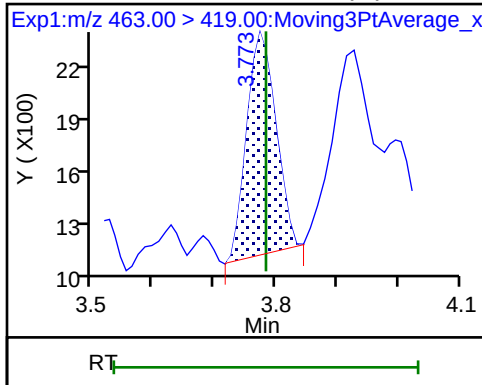
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

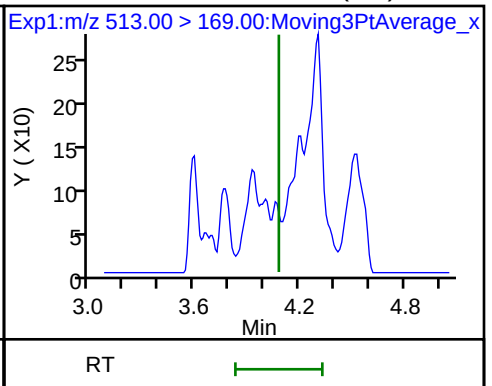
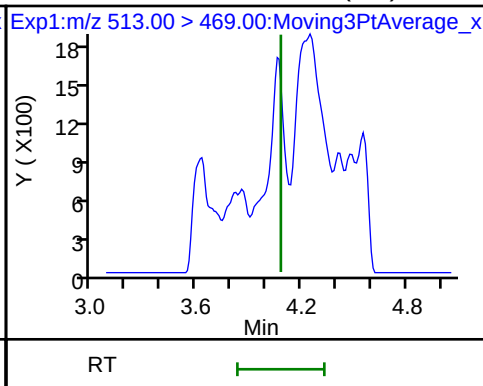
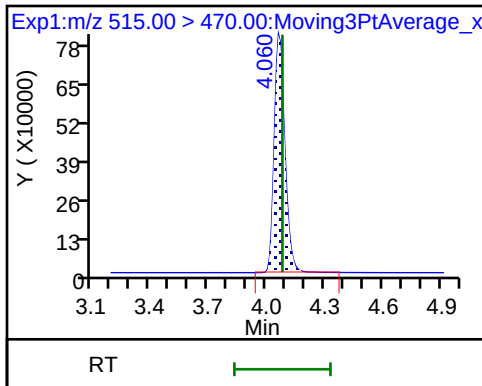
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

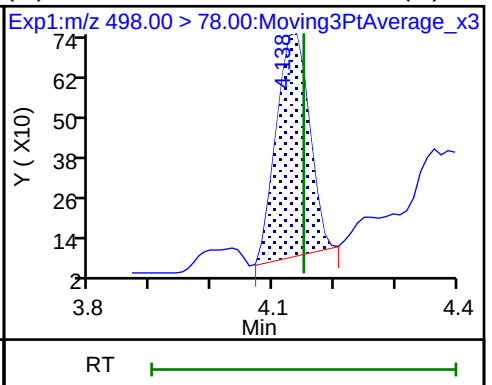
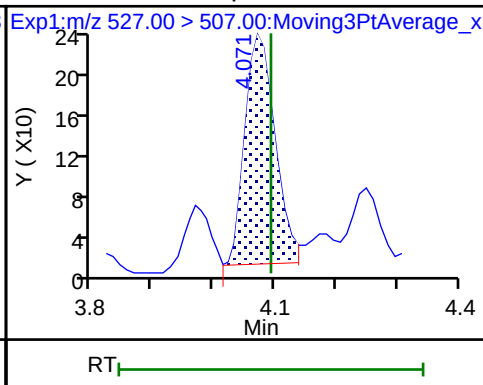
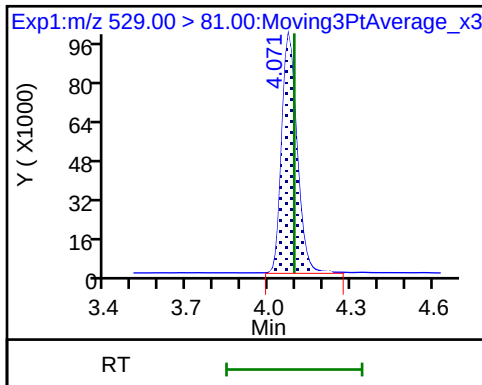
24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

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

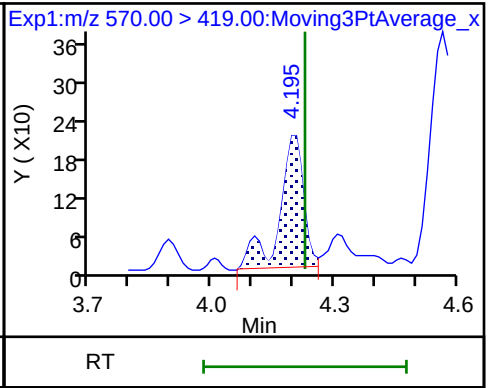
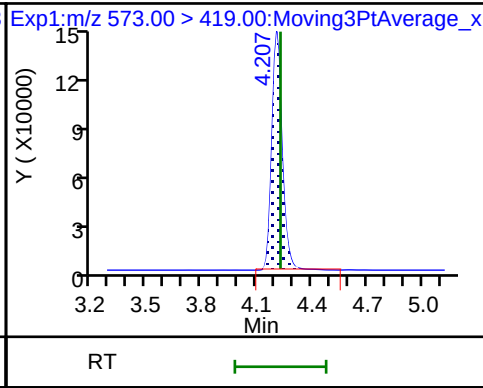
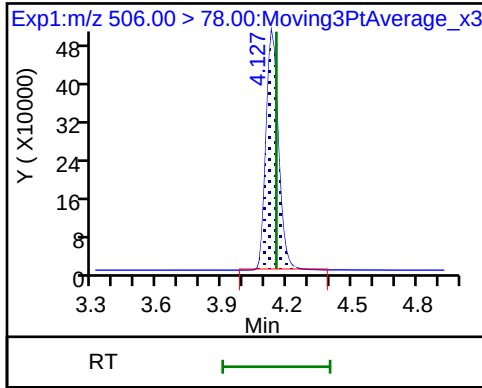
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

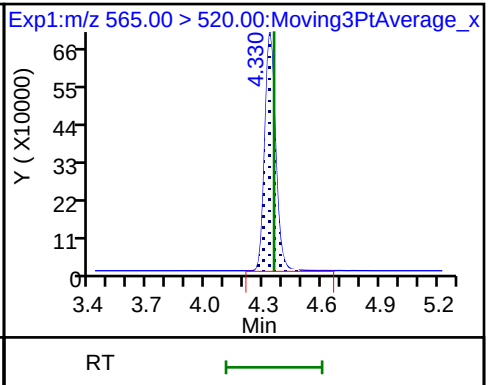
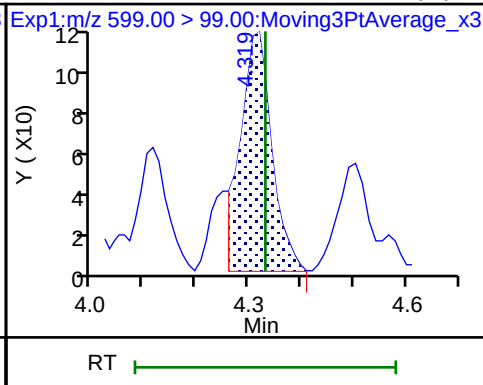
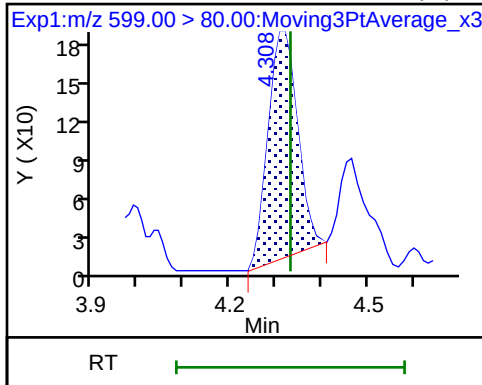
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

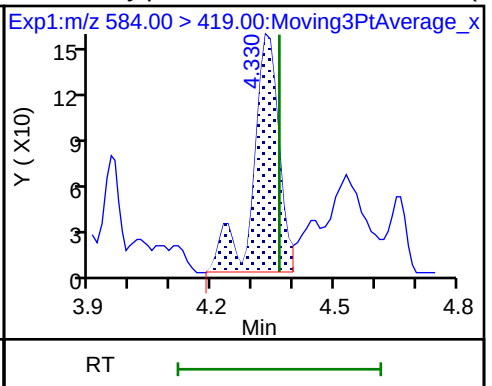
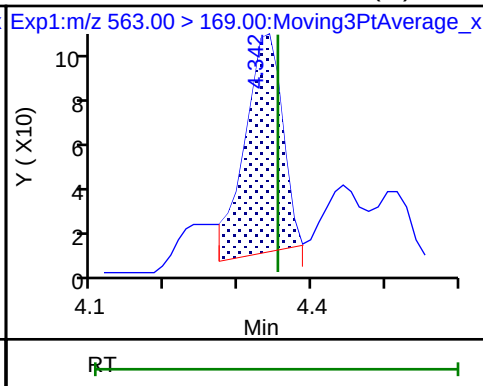
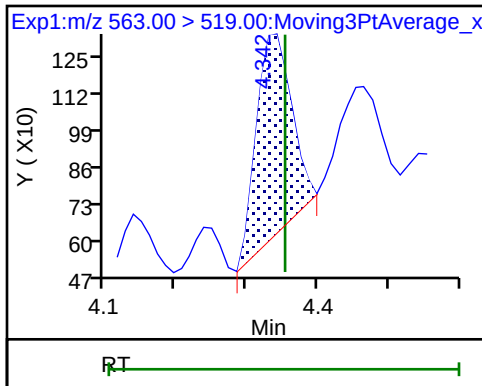
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

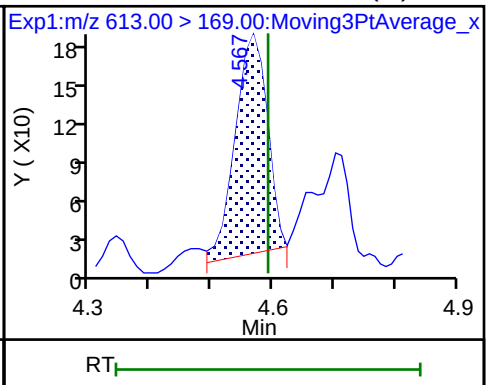
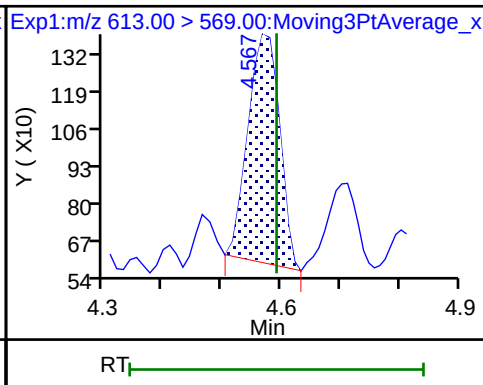
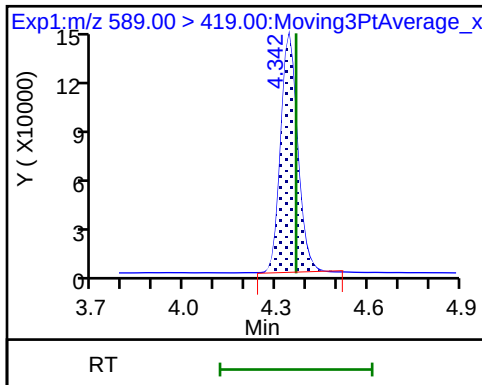
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid

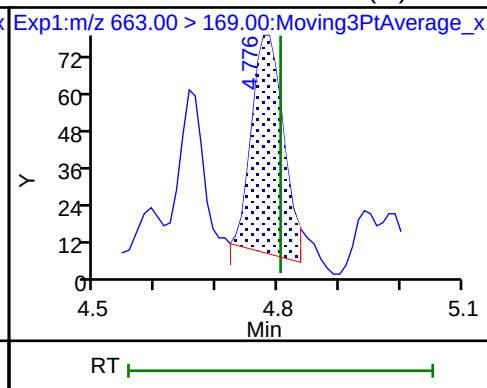
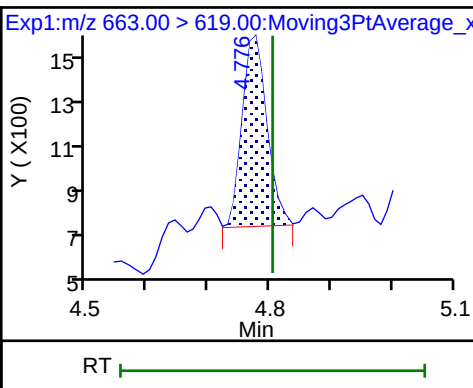
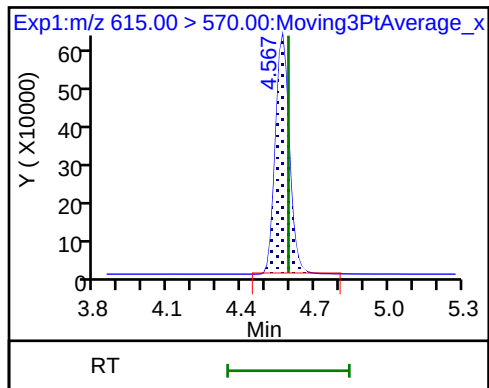
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid

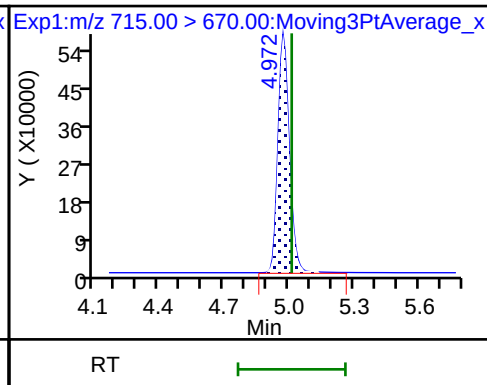
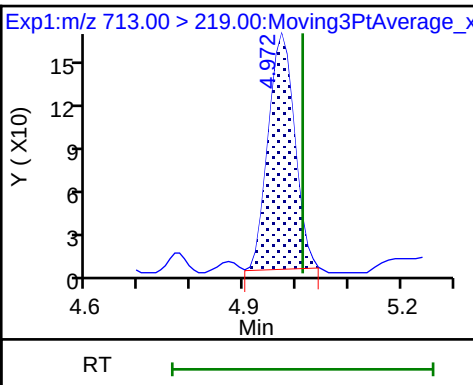
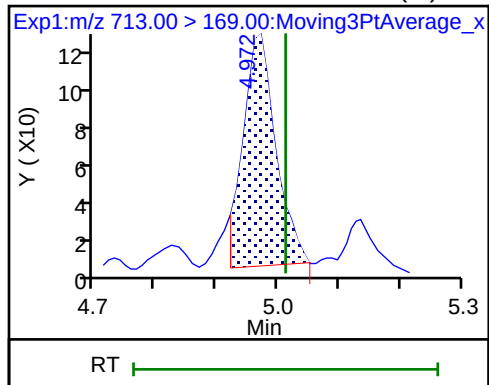
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

D 43 13C2 PFTeDA



Eurofins Burlington

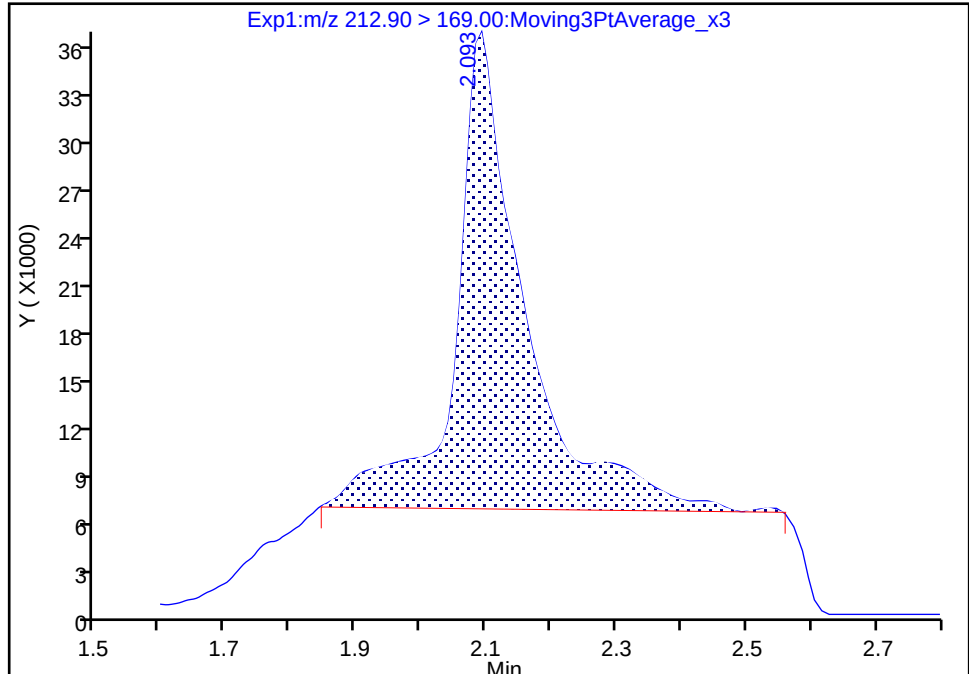
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

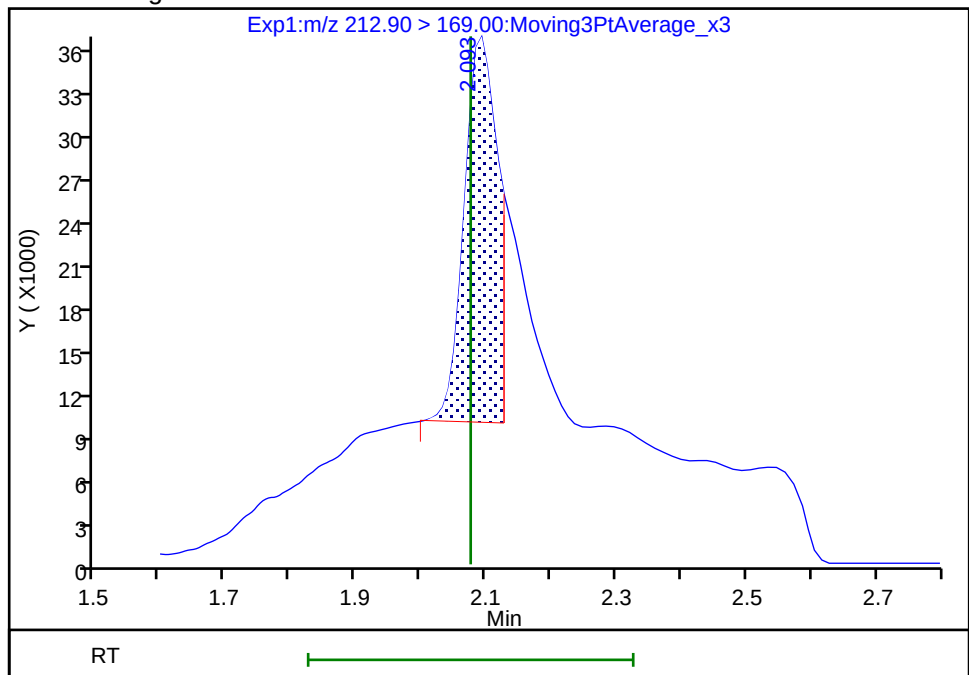
RT: 2.09
Area: 220880
Amount: 0.099865
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 92525
Amount: 0.041833
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:13:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

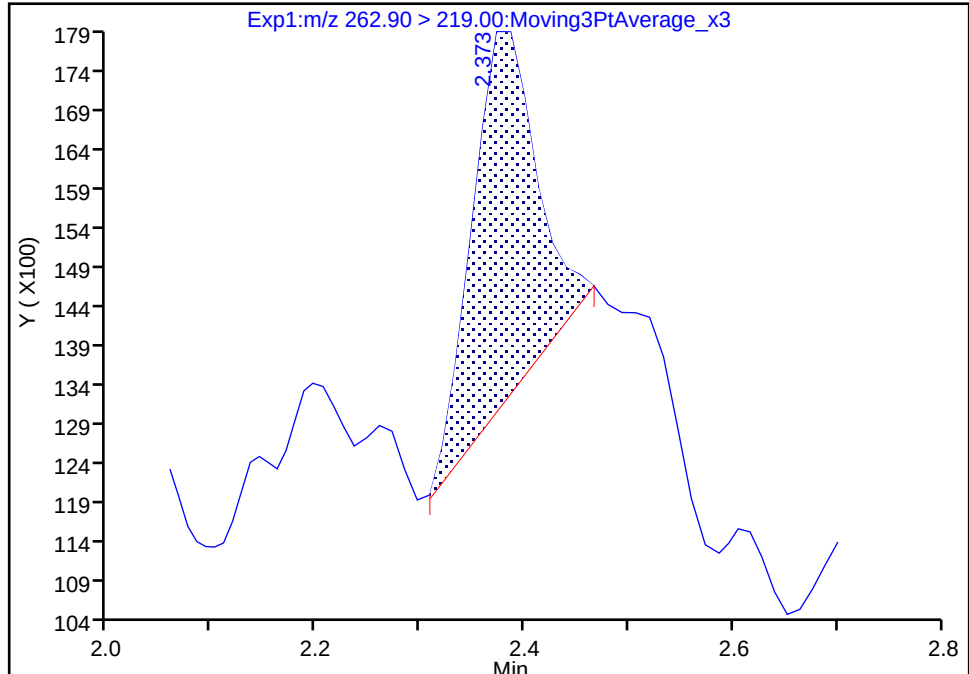
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

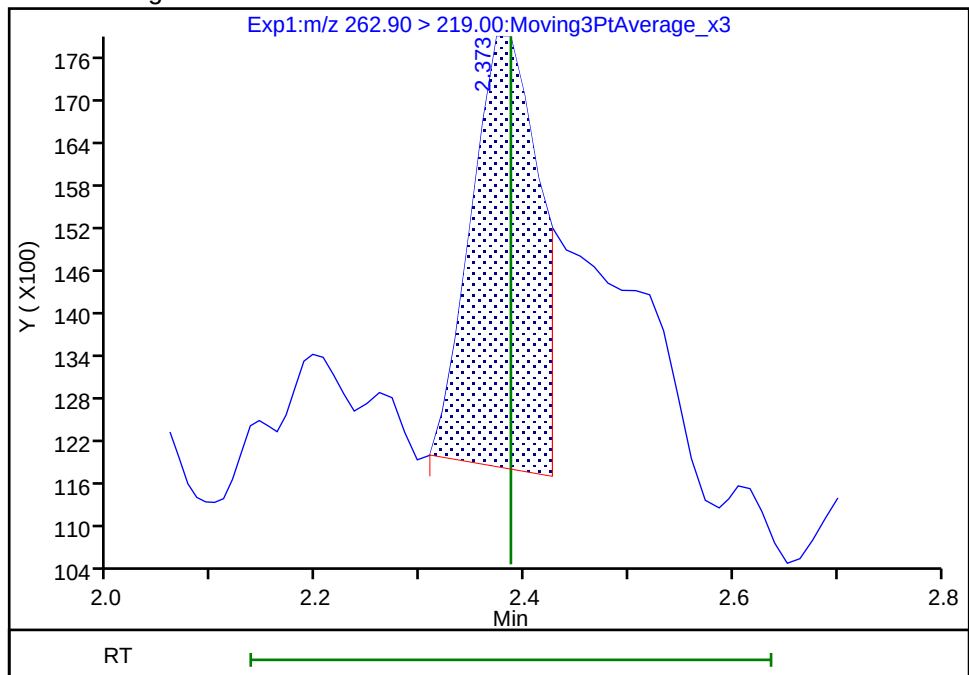
RT: 2.37
Area: 20411
Amount: 0.011169
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 26736
Amount: 0.014630
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:13:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

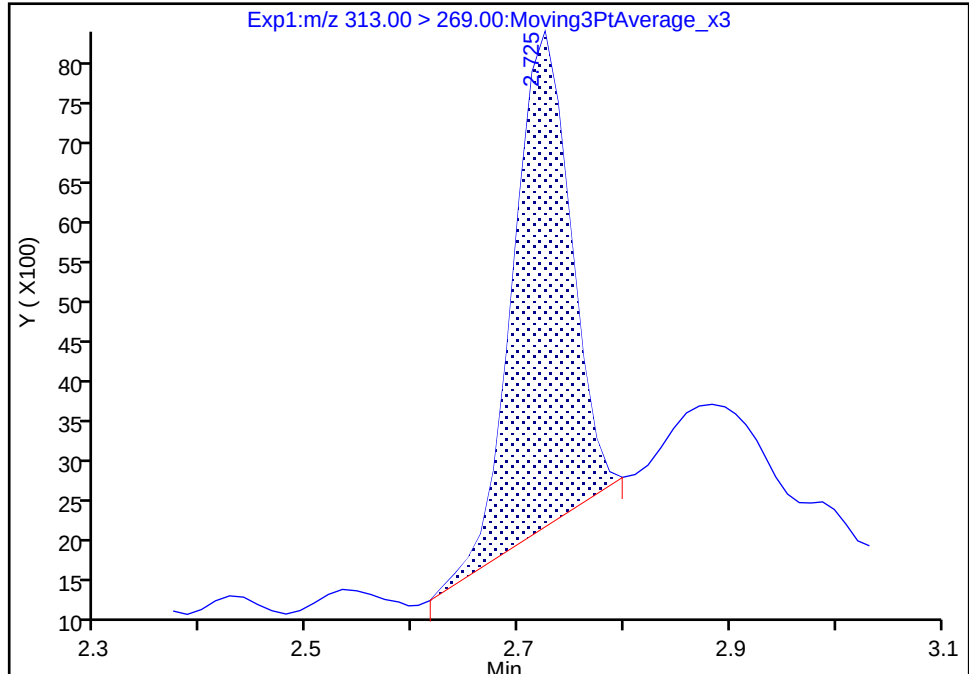
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Injection Date:	05-Jan-2023 18:13:52	Instrument ID:	LC812		
Lims ID:	460-271908-A-4-A	Lab Sample ID:	200-271908-4		
Client ID:	BCS-09-67_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	23	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

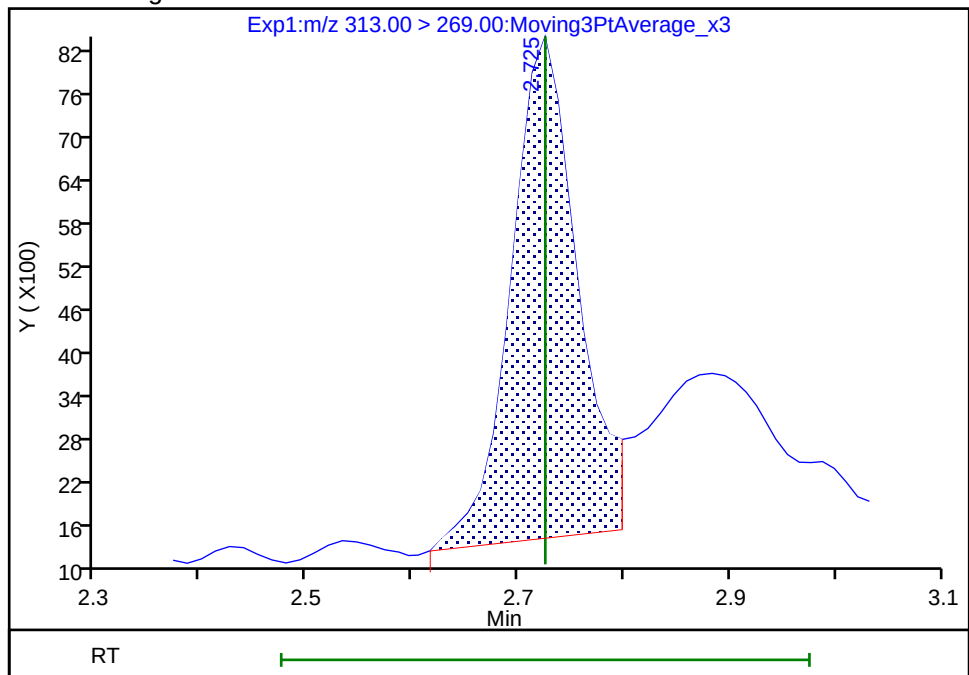
RT: 2.73
Area: 23528
Amount: 0.011746
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 30336
Amount: 0.015145
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:14:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

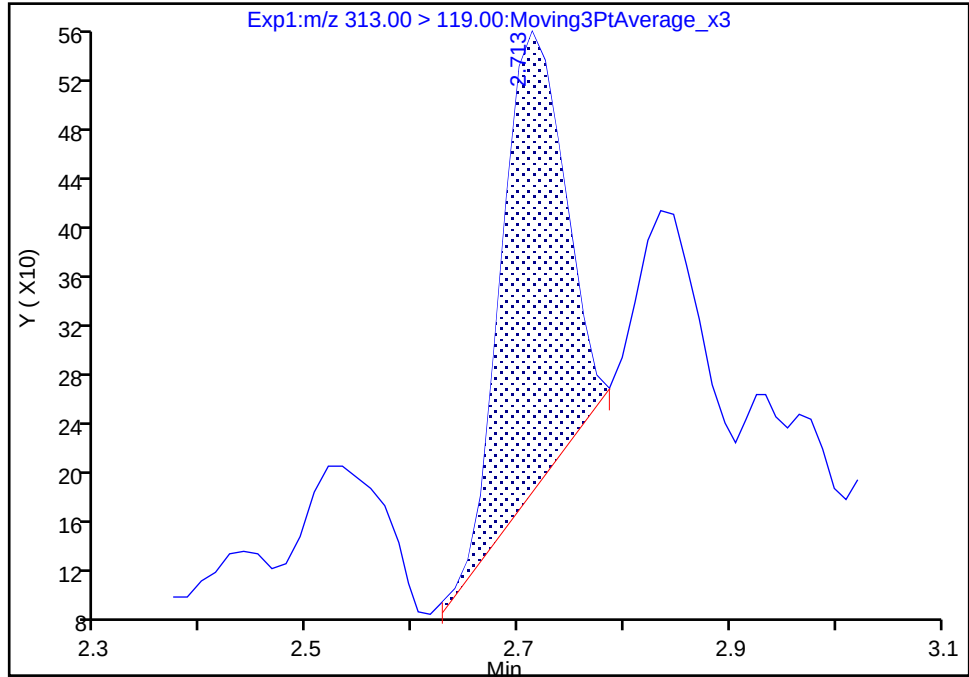
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

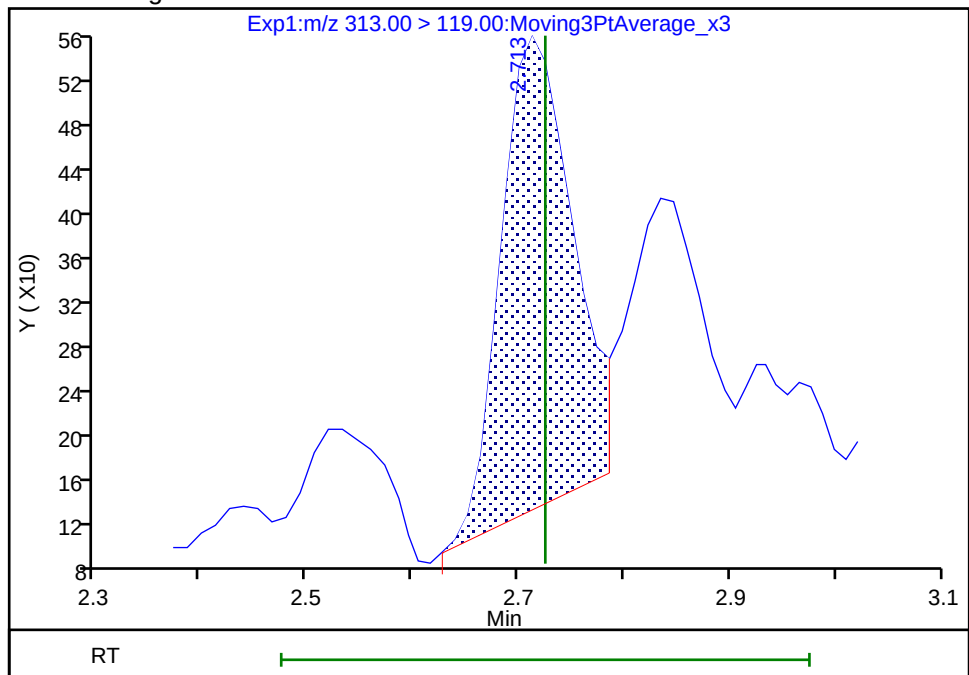
RT: 2.71
Area: 1543
Amount: 0.011746
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 1975
Amount: 0.015145
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:14:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

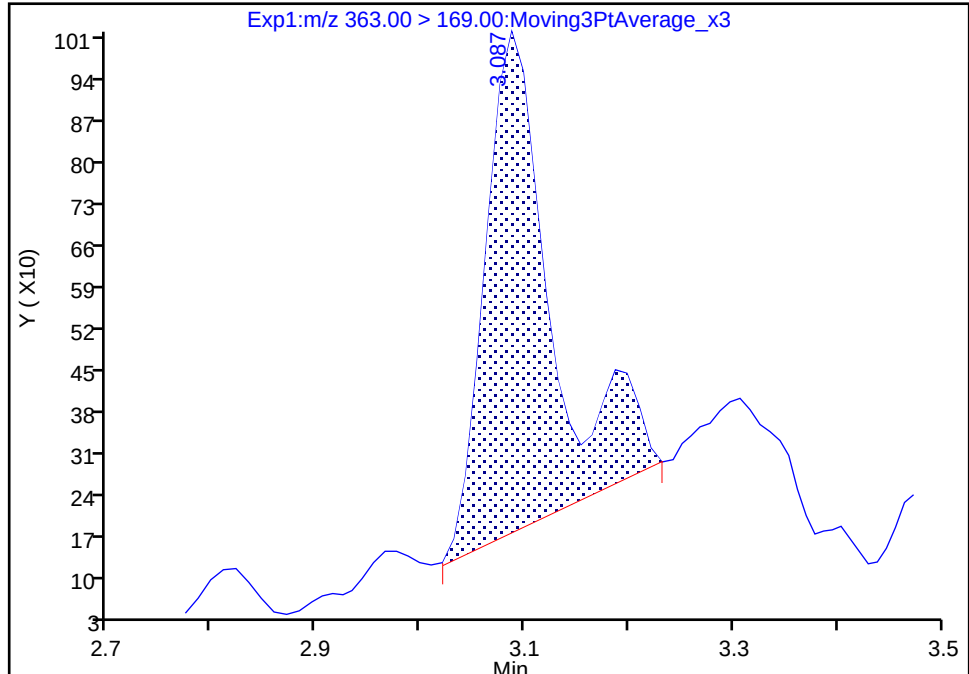
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d				
Injection Date:	05-Jan-2023 18:13:52	Instrument ID:	LC812		
Lims ID:	460-271908-A-4-A	Lab Sample ID:	200-271908-4		
Client ID:	BCS-09-67_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	23	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

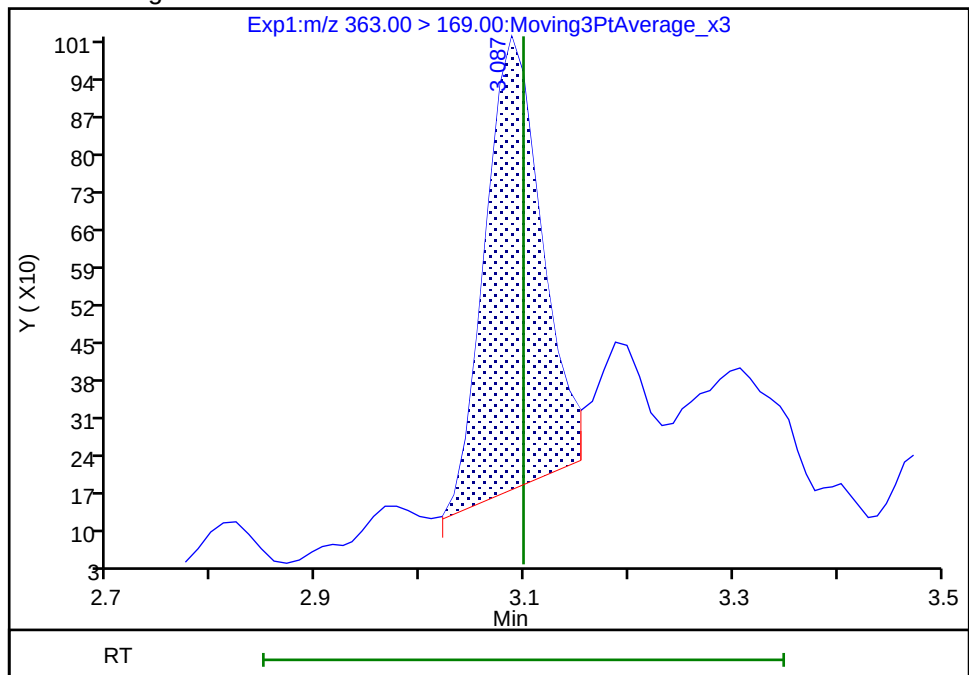
RT: 3.09
Area: 3696
Amount: 0.007741
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3151
Amount: 0.007741
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:14:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

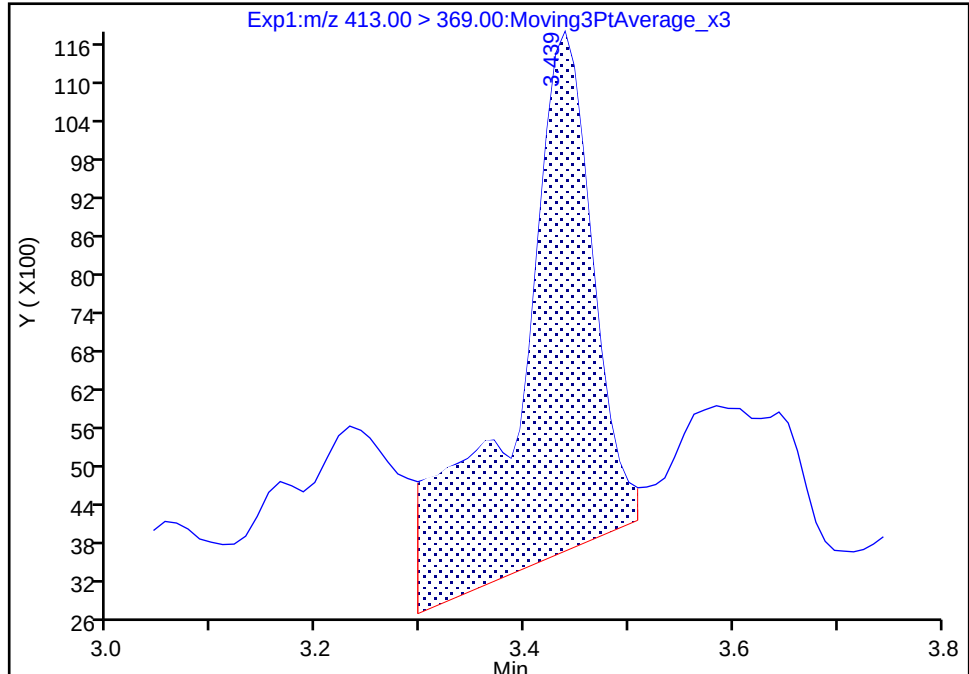
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

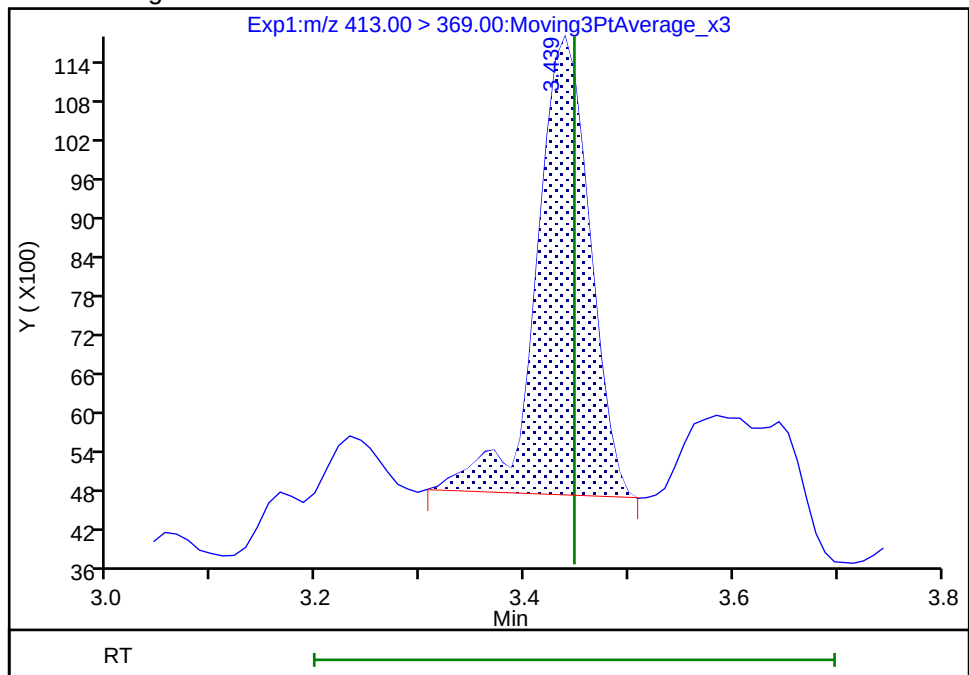
RT: 3.44
Area: 41666
Amount: 0.017298
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 25156
Amount: 0.010444
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:14:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

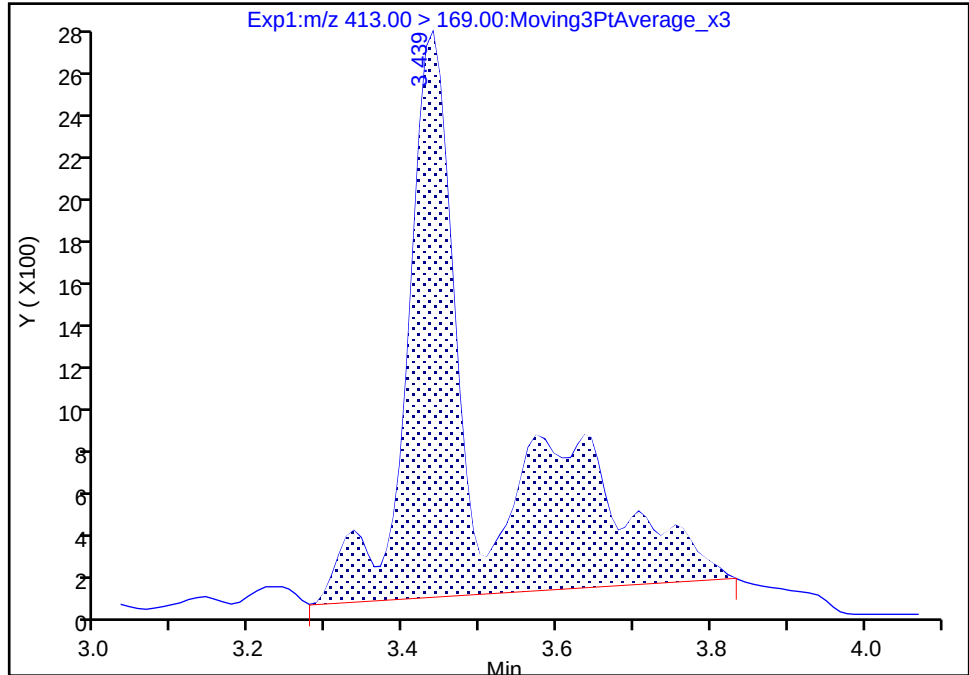
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

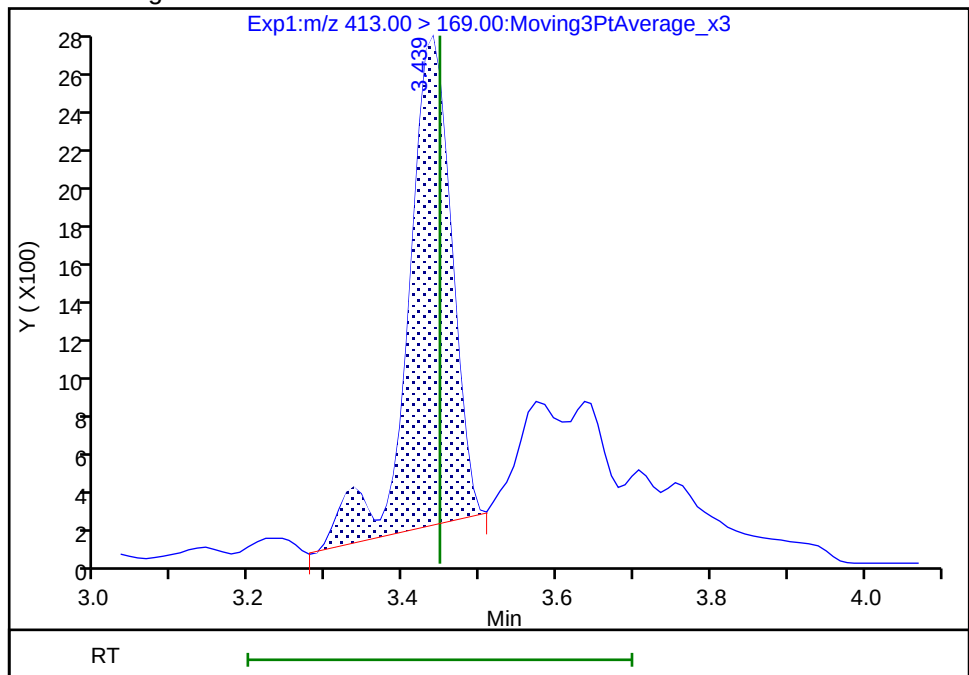
RT: 3.44
Area: 18805
Amount: 0.017298
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 10188
Amount: 0.010444
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:14:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

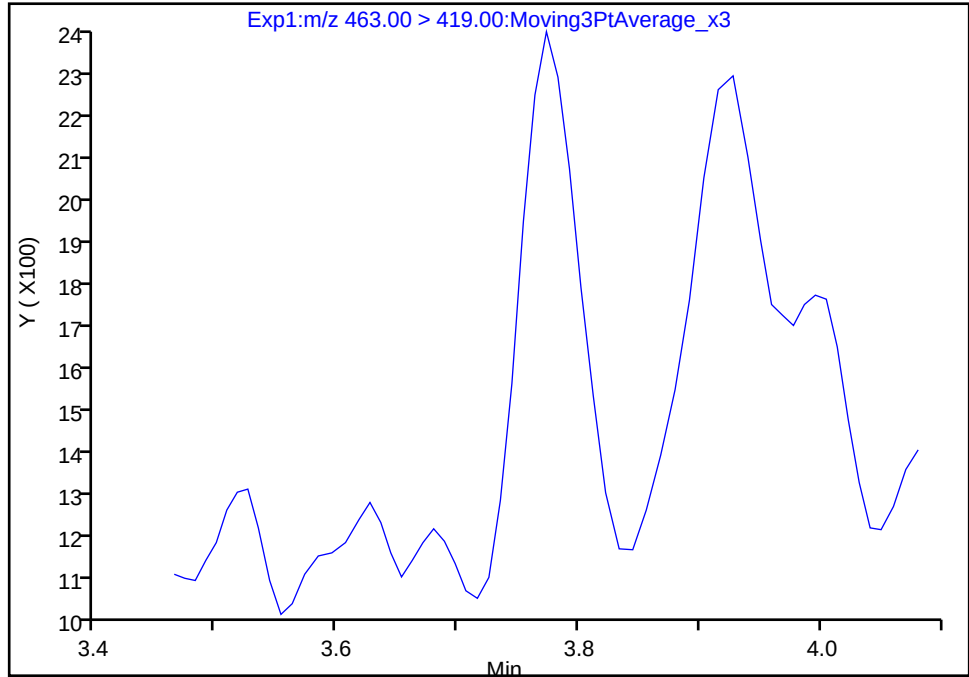
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d				
Injection Date:	05-Jan-2023 18:13:52	Instrument ID:	LC812		
Lims ID:	460-271908-A-4-A	Lab Sample ID:	200-271908-4		
Client ID:	BCS-09-67_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	23	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

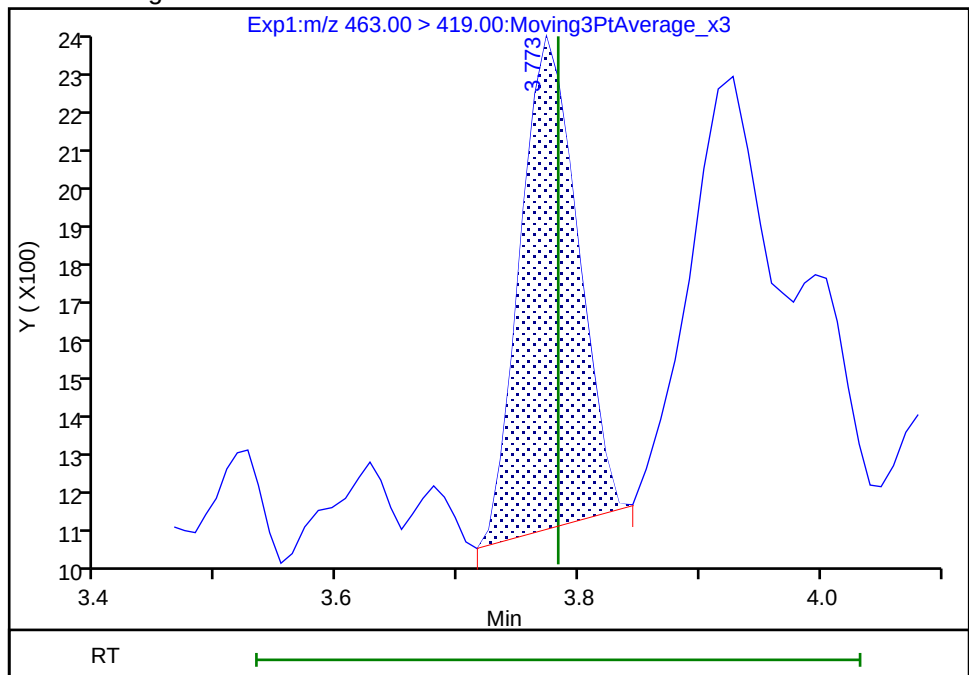
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:16:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

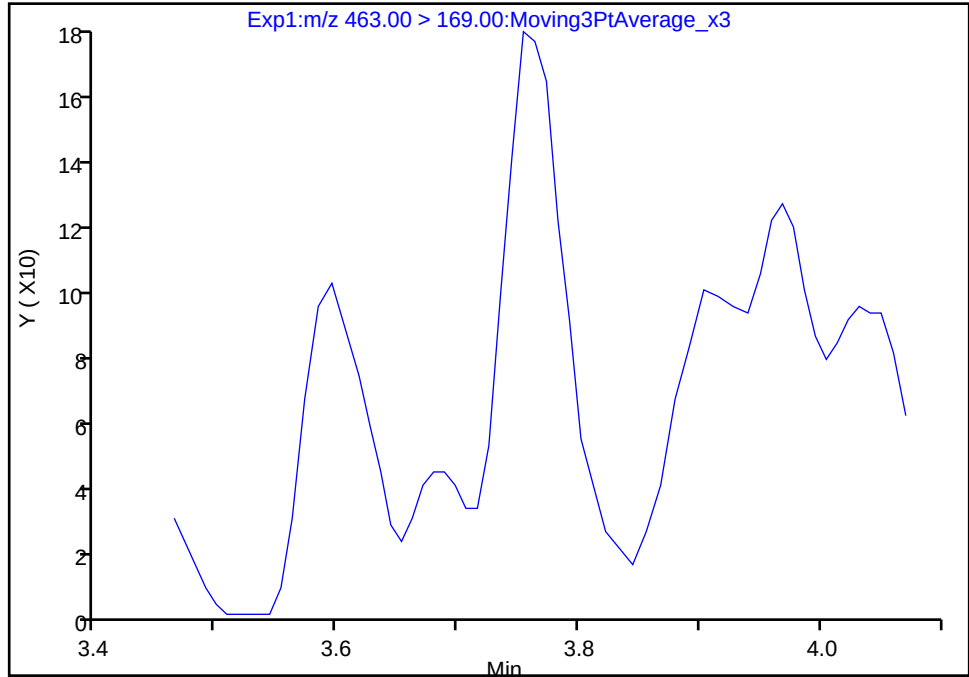
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

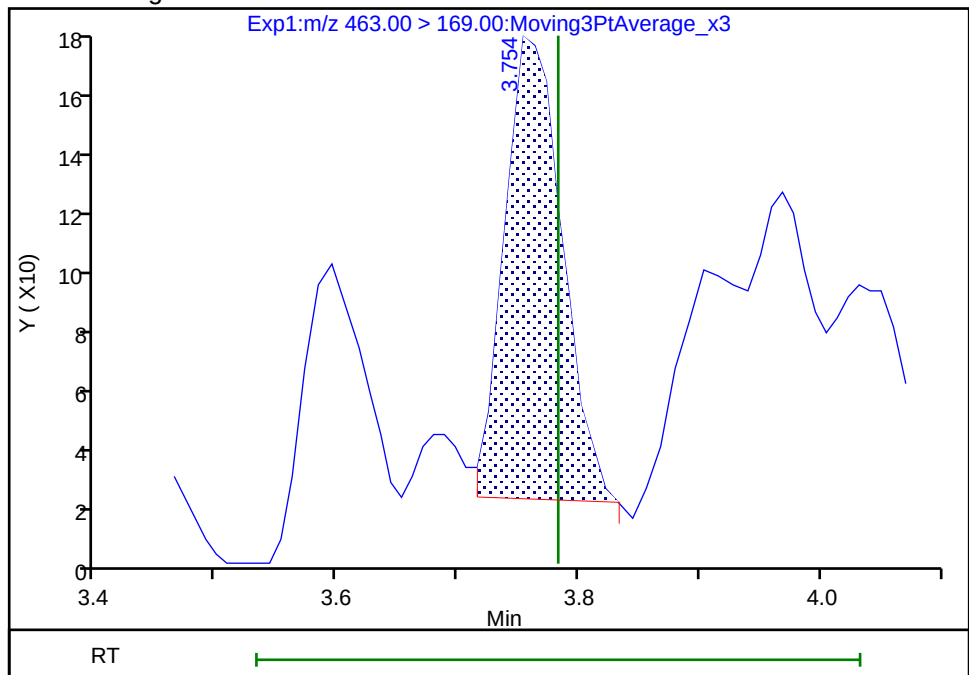
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 512
Amount: 0.001740
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:17:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

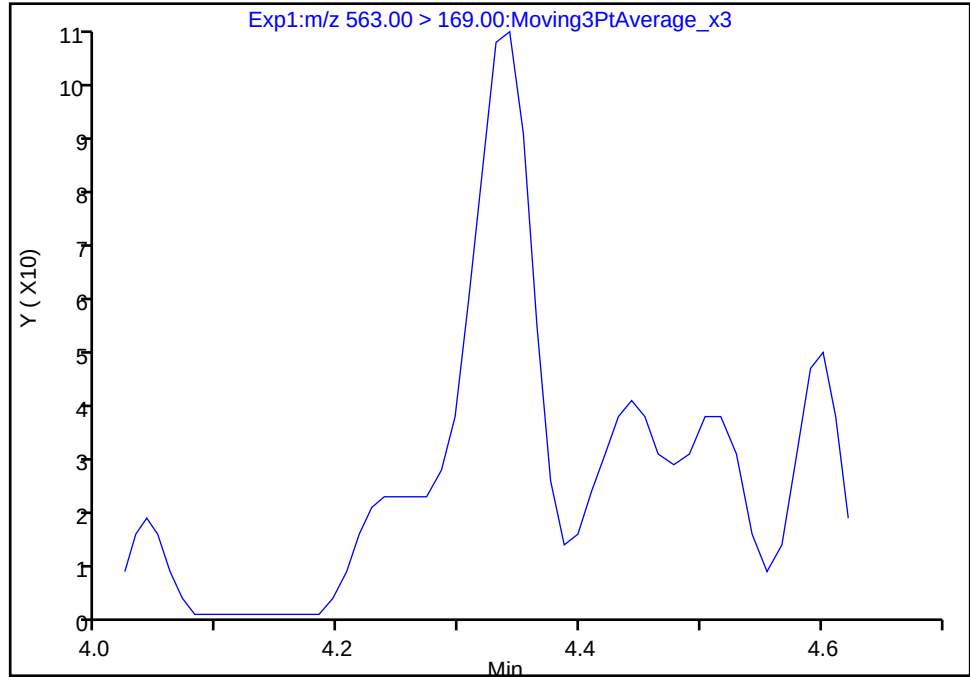
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

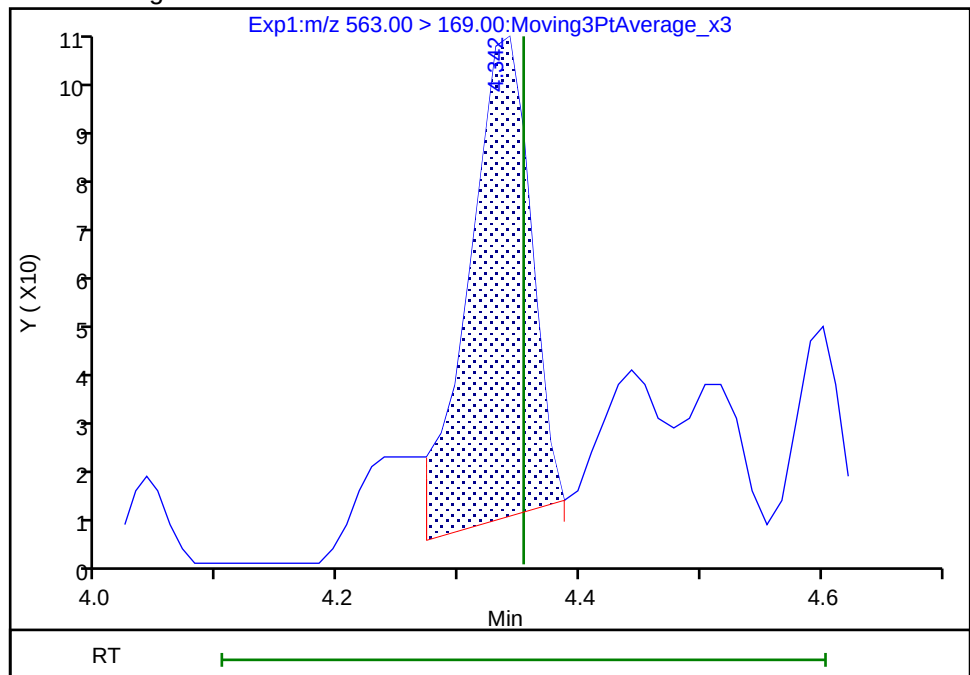
Signal: 2

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.34
Area: 352
Amount: 0.001150
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:16:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

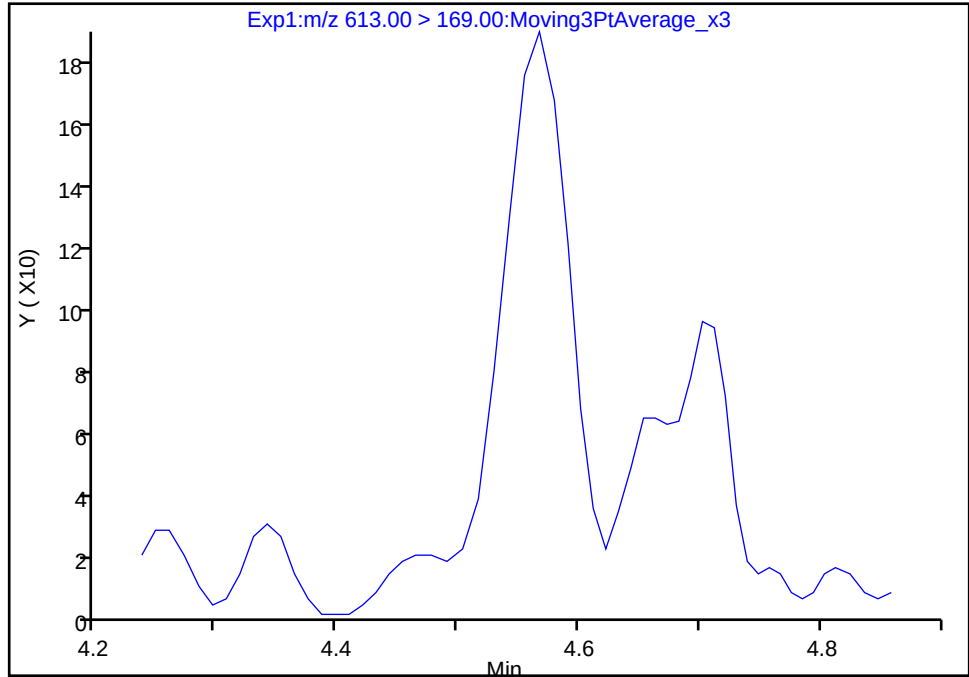
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

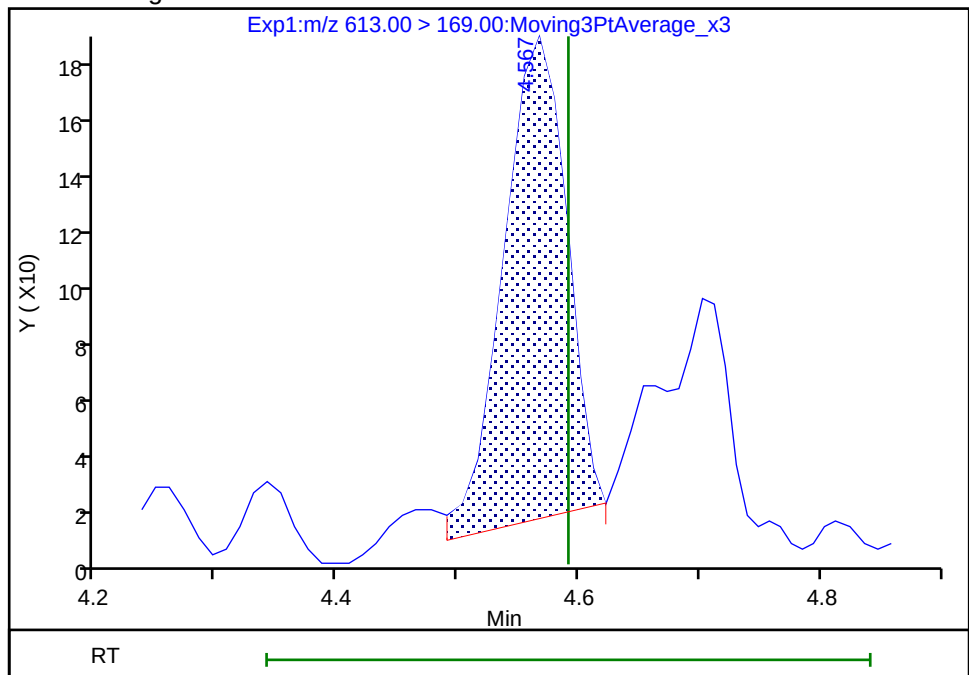
Signal: 2

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.57
Area: 625
Amount: 0.001439
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 14:16:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

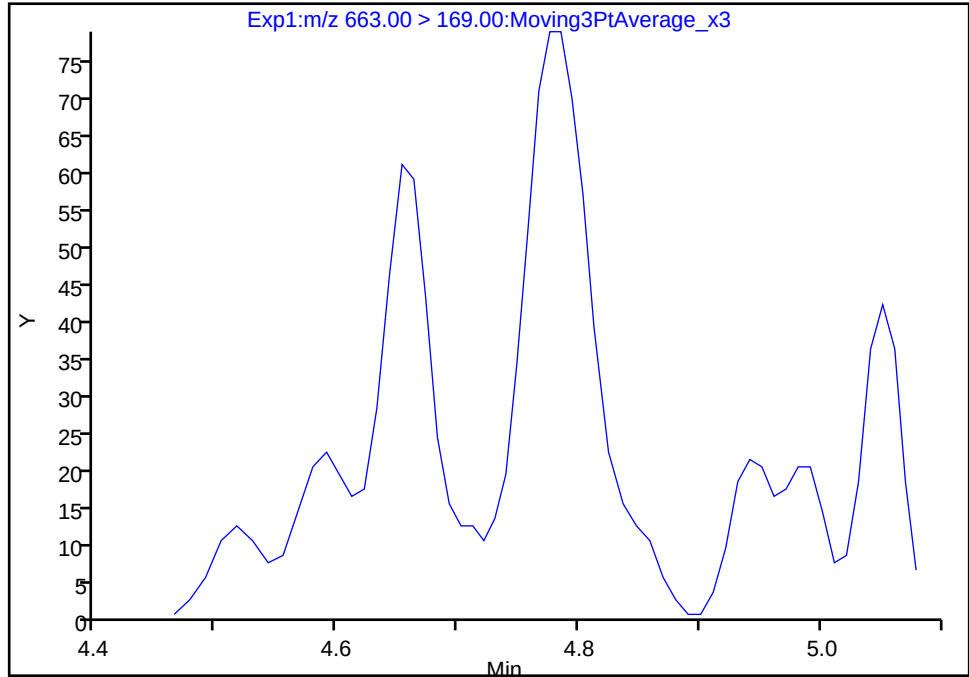
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

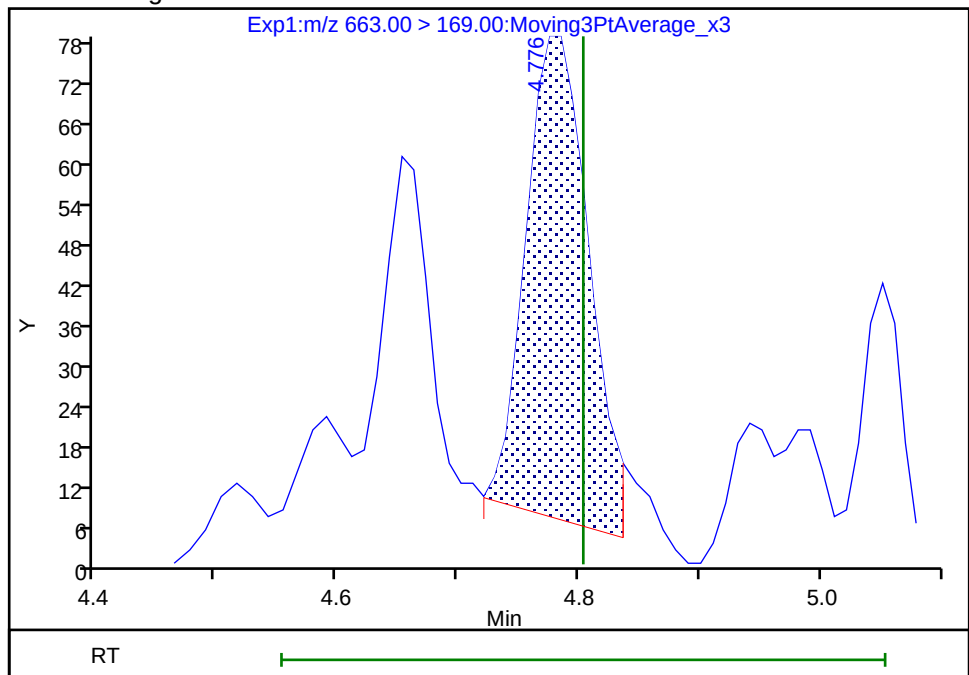
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.78
Area: 259
Amount: 0.001098
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:16:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

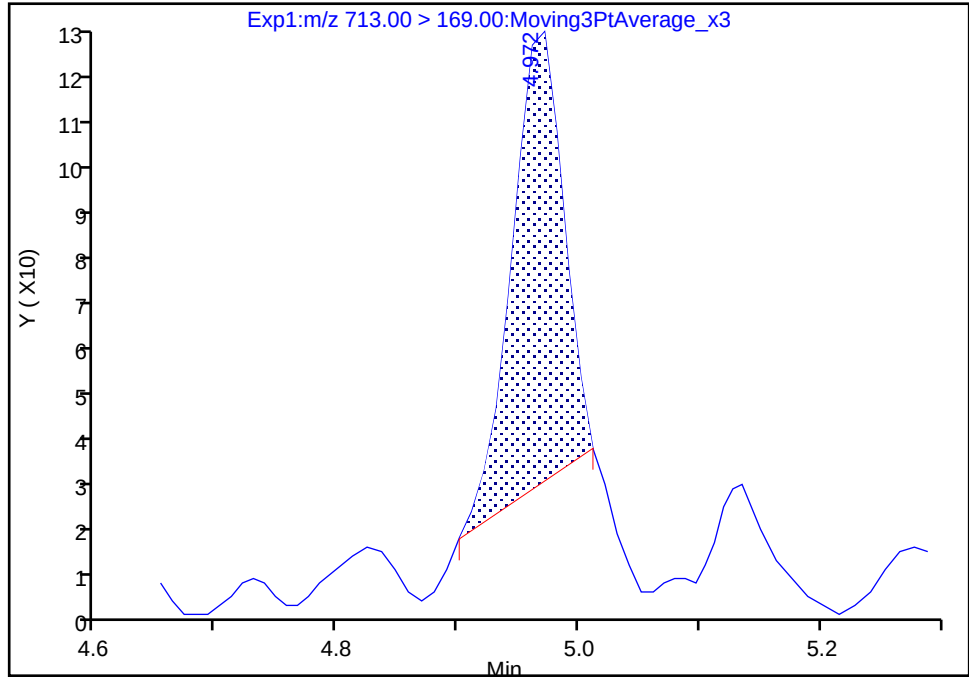
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Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

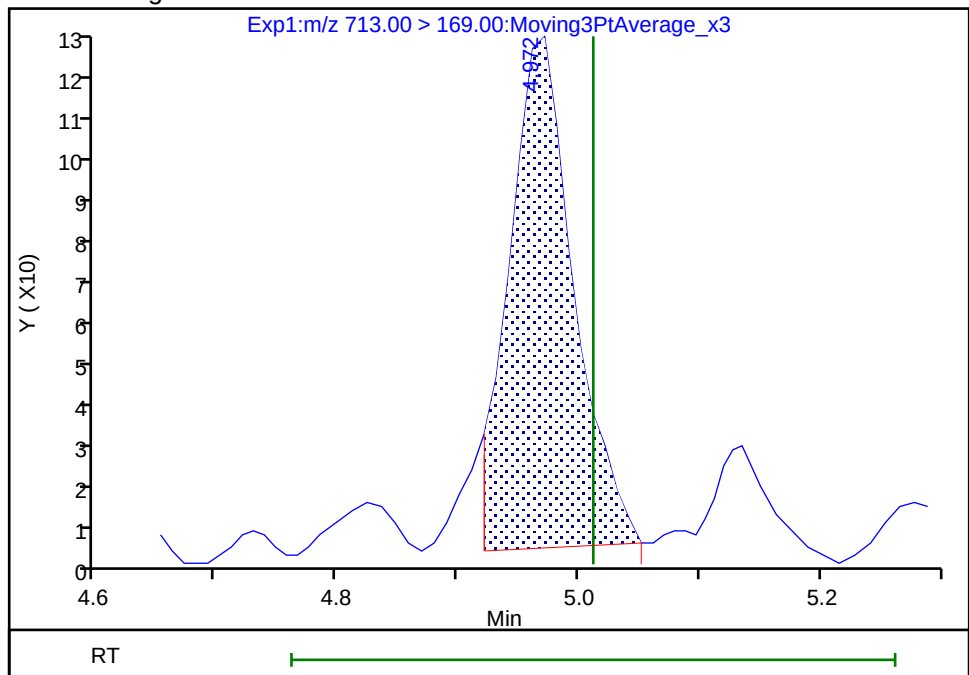
RT: 4.97
Area: 299
Amount: 0.001306
Amount Units: ng/ml

Processing Integration Results



RT: 4.97
Area: 465
Amount: 0.002032
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:16:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

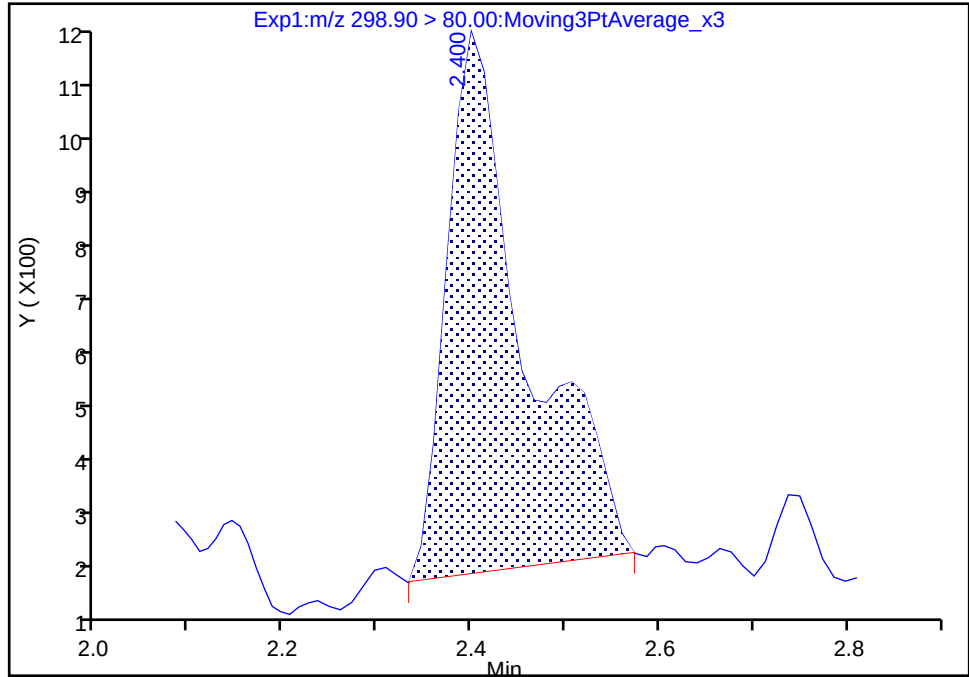
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

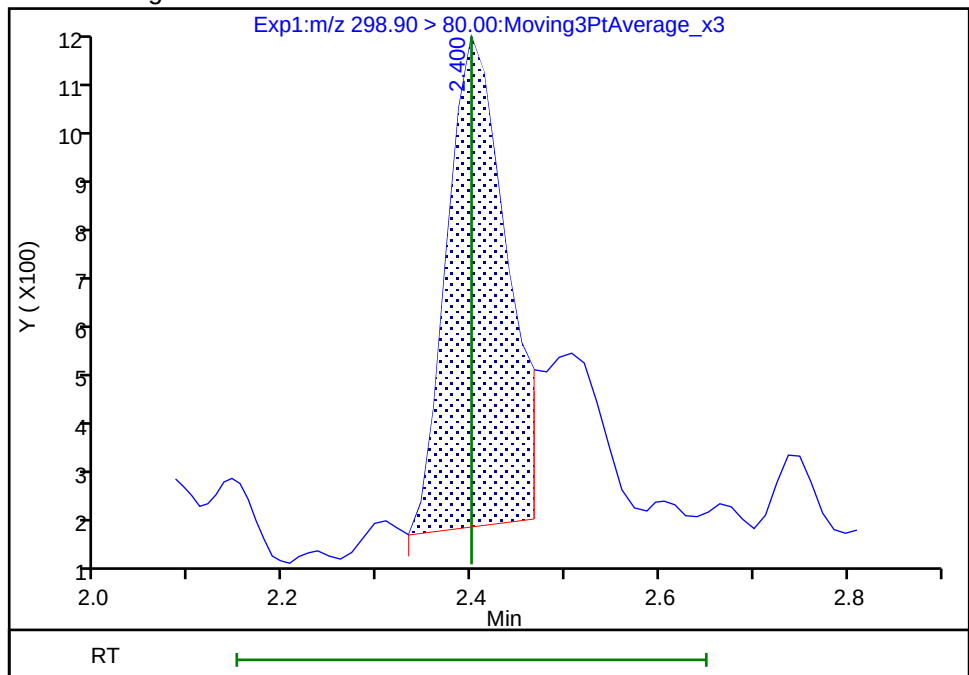
RT: 2.40
Area: 5497
Amount: 0.002693
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4125
Amount: 0.002021
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:13:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

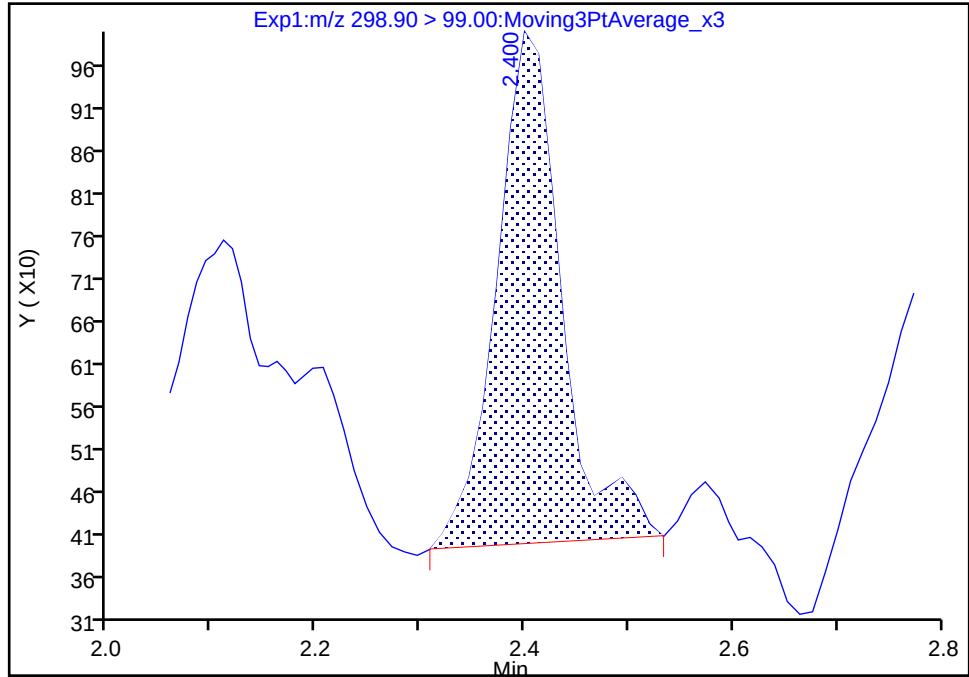
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

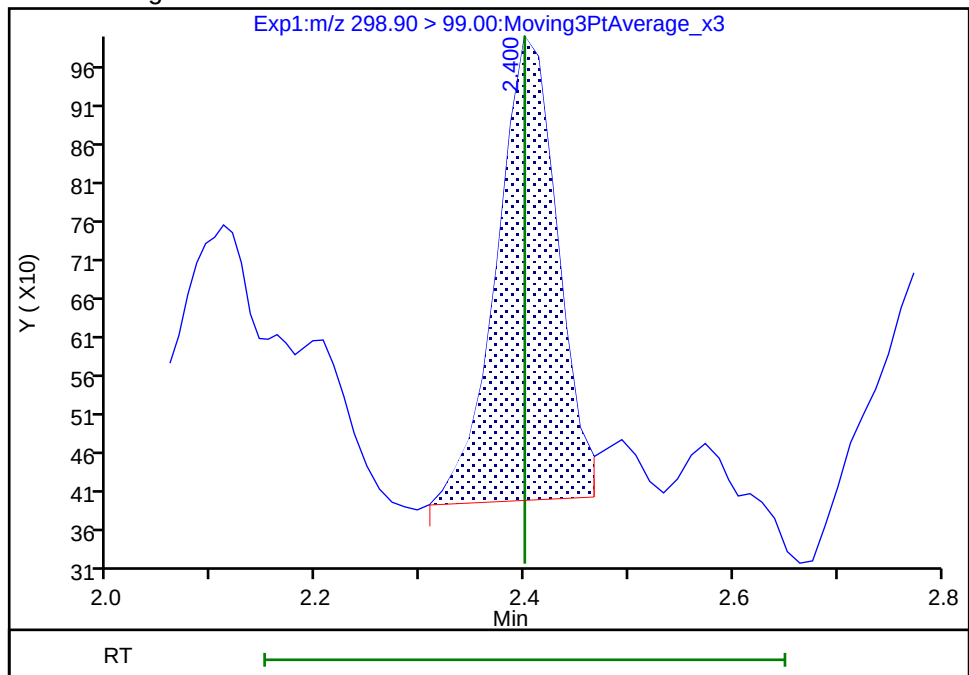
RT: 2.40
Area: 2598
Amount: 0.002693
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2420
Amount: 0.002021
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:13:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

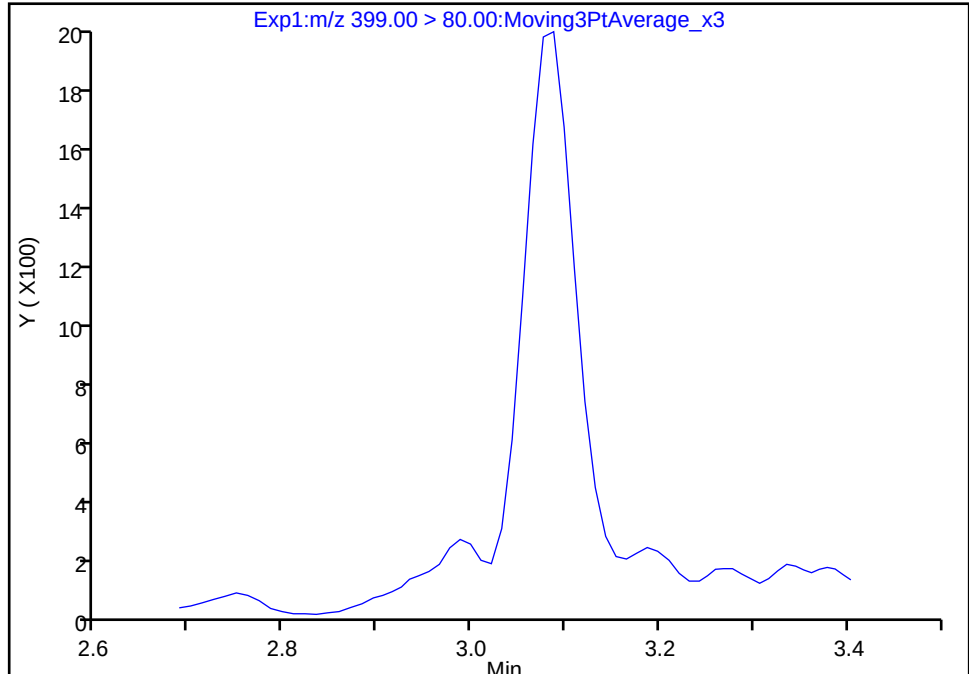
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d				
Injection Date:	05-Jan-2023 18:13:52	Instrument ID:	LC812		
Lims ID:	460-271908-A-4-A	Lab Sample ID:	200-271908-4		
Client ID:	BCS-09-67_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	23	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

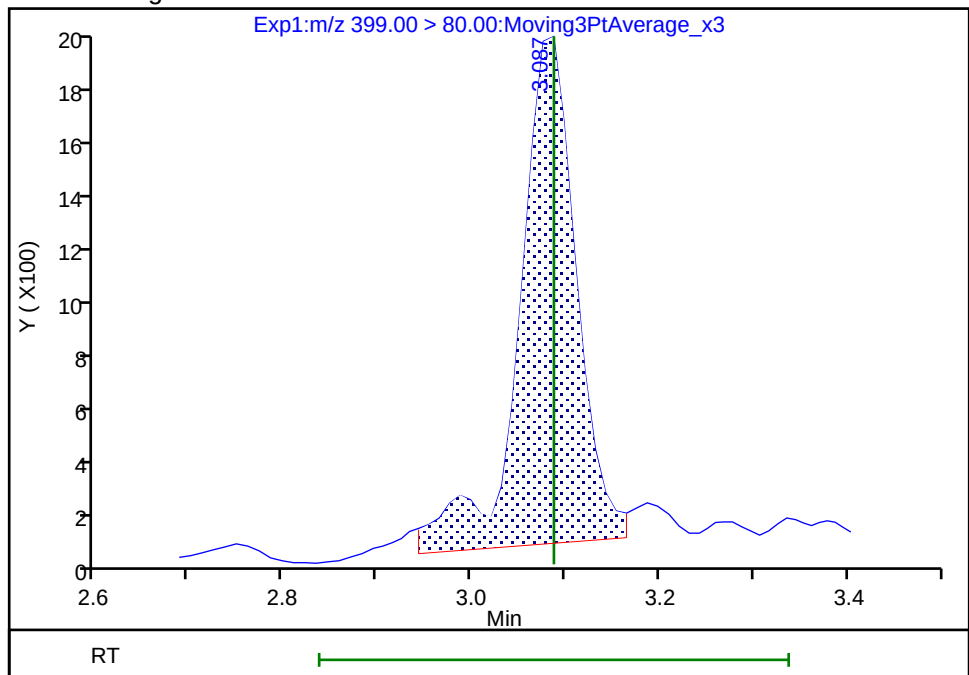
Signal: 1

Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:14:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

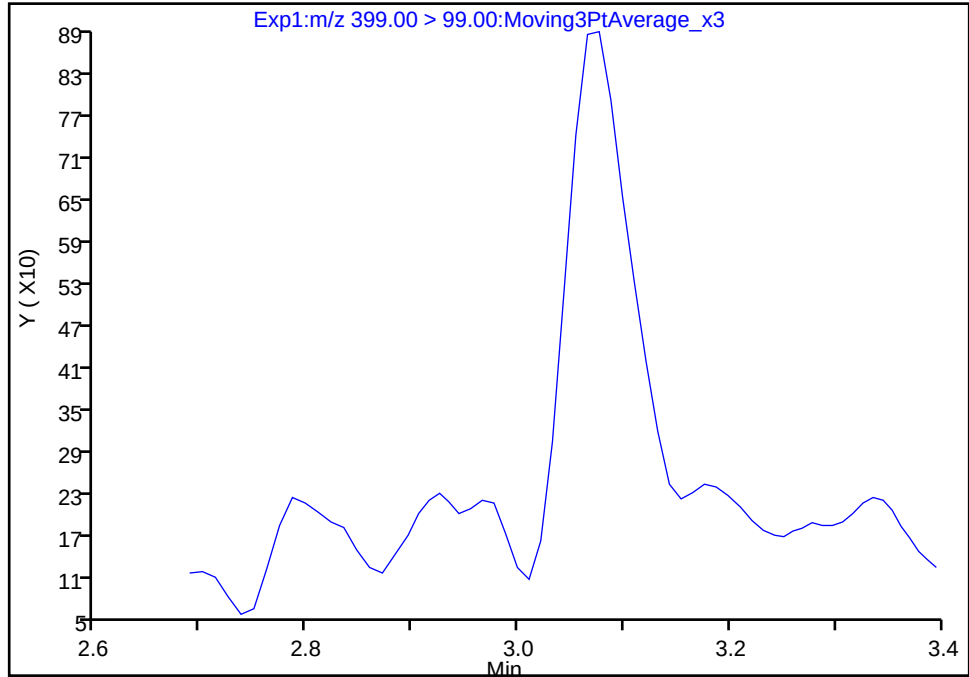
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

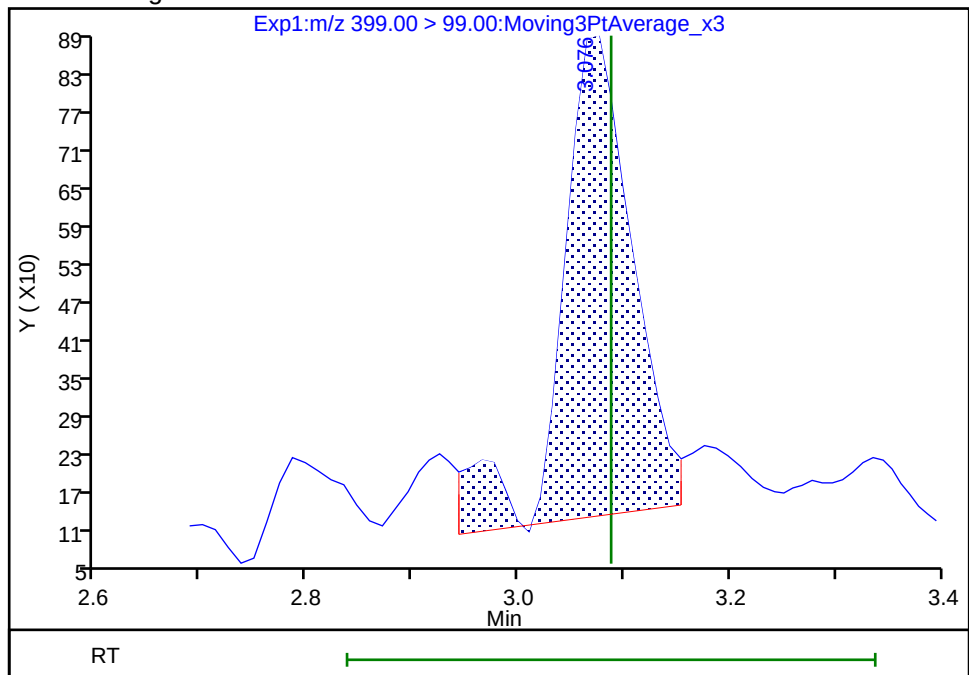
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 3542
Amount: 0.005126
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:14:30

Audit Action: Manually Integrated

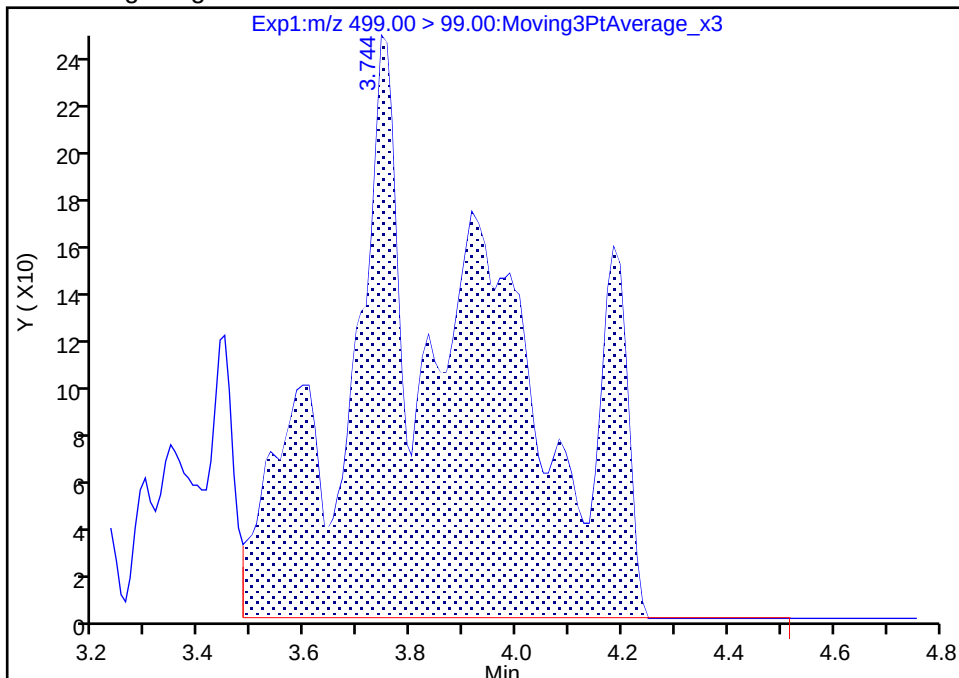
Audit Reason: Incomplete Integration

Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d		
Injection Date:	05-Jan-2023 18:13:52	Instrument ID:	LC812
Lims ID:	460-271908-A-4-A	Lab Sample ID:	200-271908-4
Client ID:	BCS-09-67_(12-12.5)P		
Operator ID:	lc812tech	ALS Bottle#:	23 Workli
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

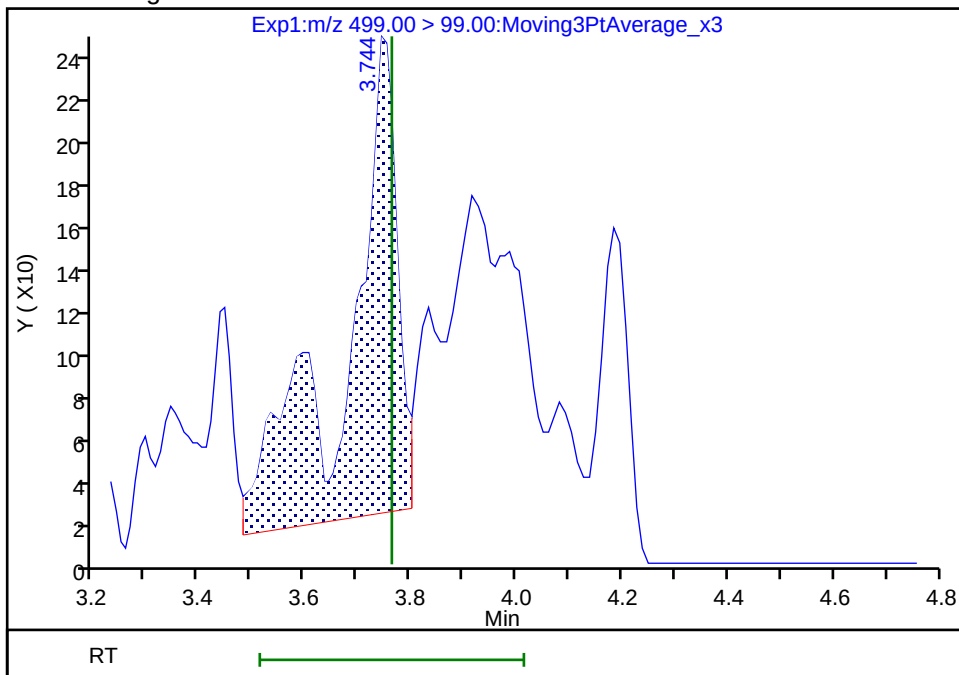
ALS Bottle#: 23 Worklist Smp#: 26
Dil. Factor: 1.0000
Limit Group: LC_PFC_ICAL
Detector: EXP1

Signal: 2

Processing Integration Results



Manual Integration Results



Audit Reason: Incomplete Integration

Eurofins Burlington

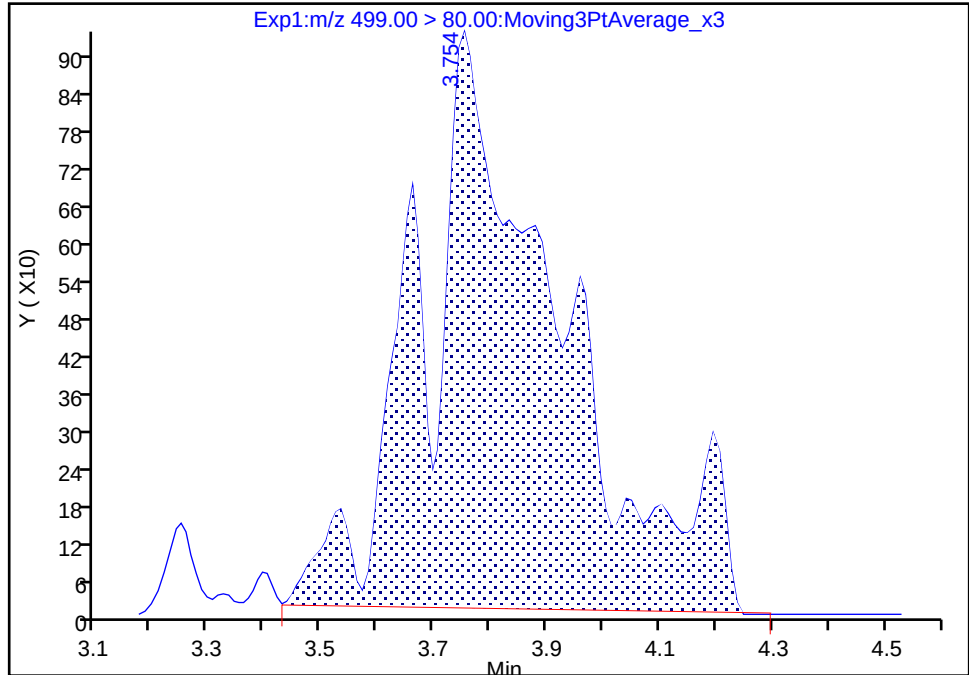
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

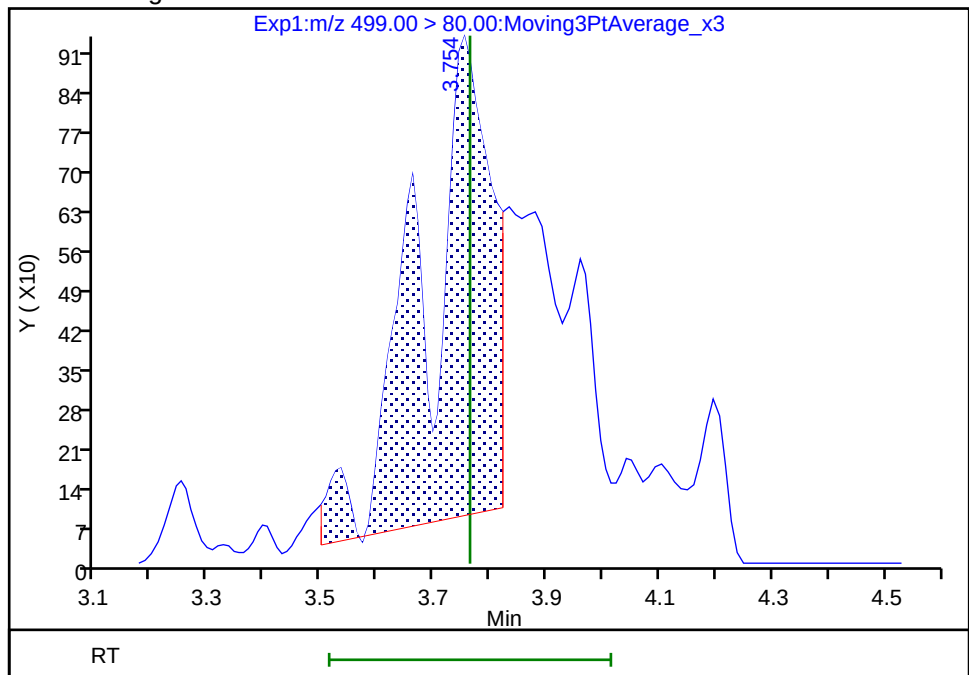
RT: 3.75
Area: 16231
Amount: 0.015085
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 7226
Amount: 0.006716
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:15:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

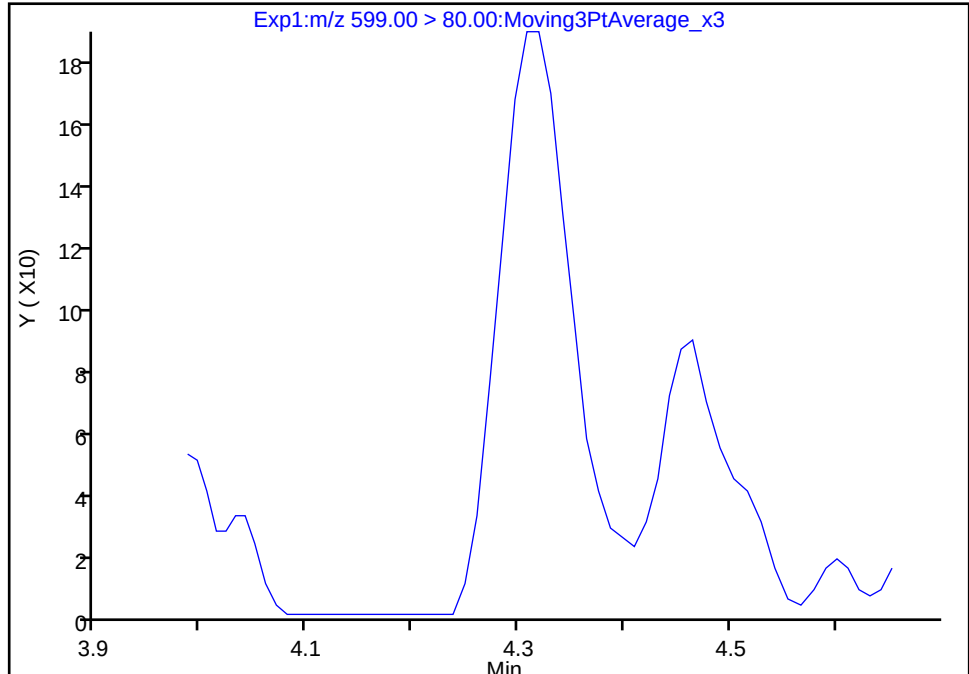
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

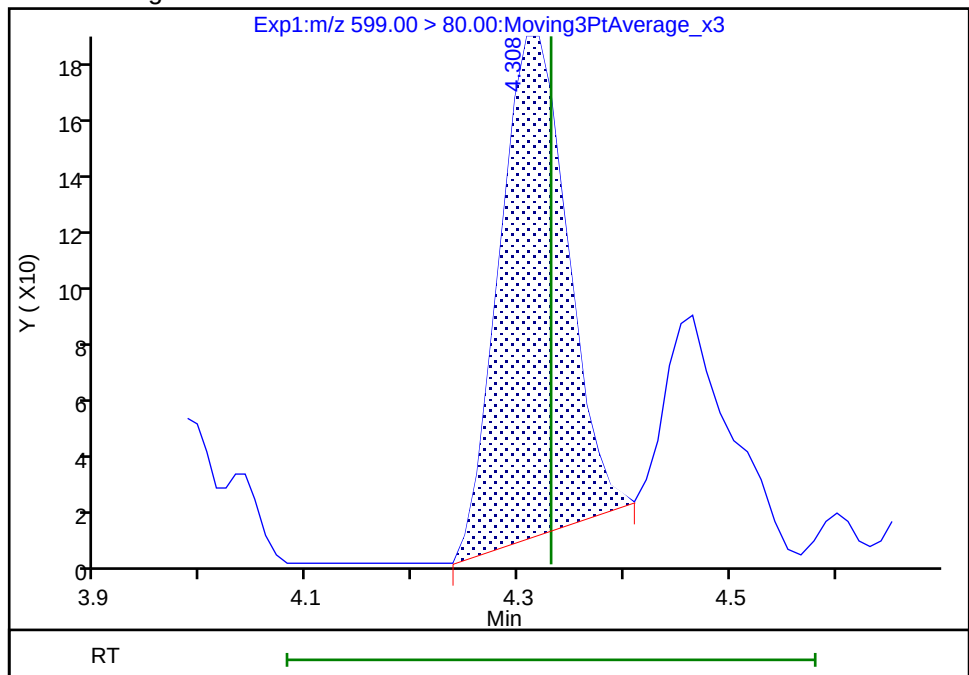
Signal: 1

Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:15:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

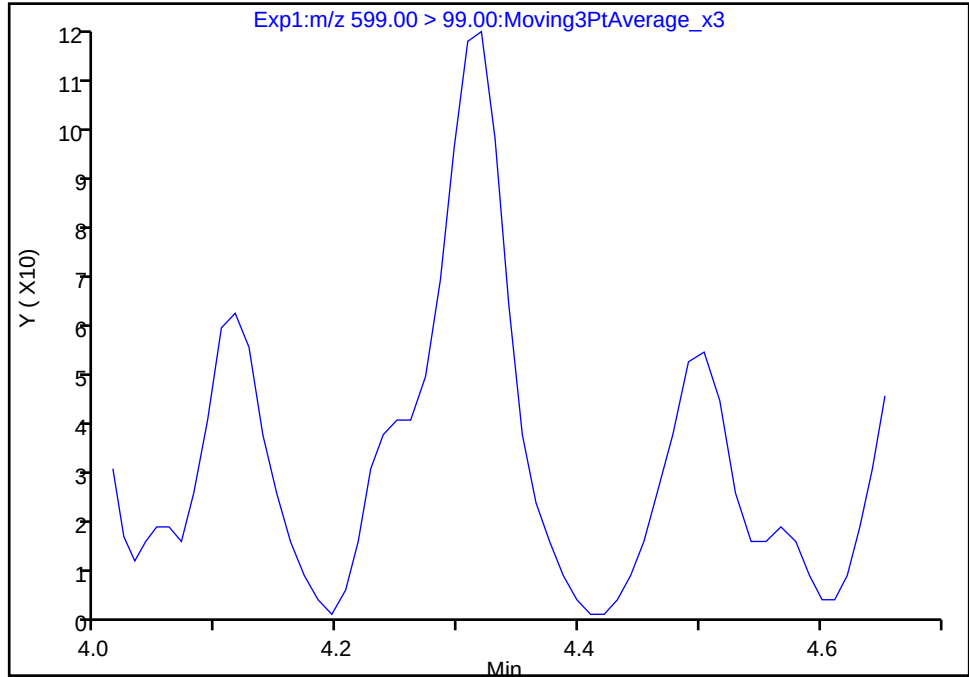
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

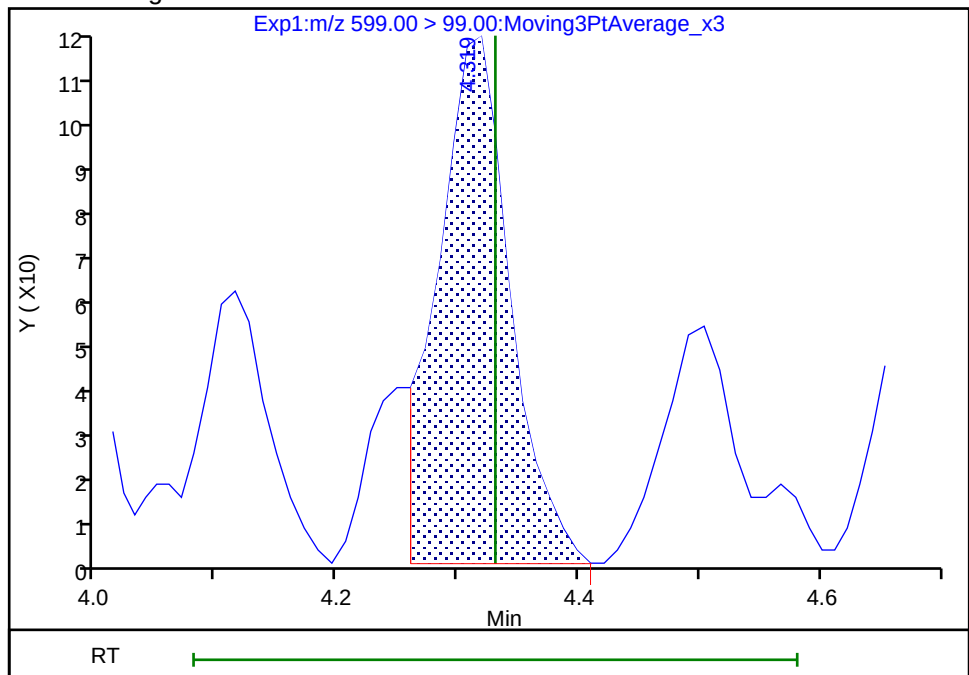
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 493
Amount: 0.001254
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 14:15:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

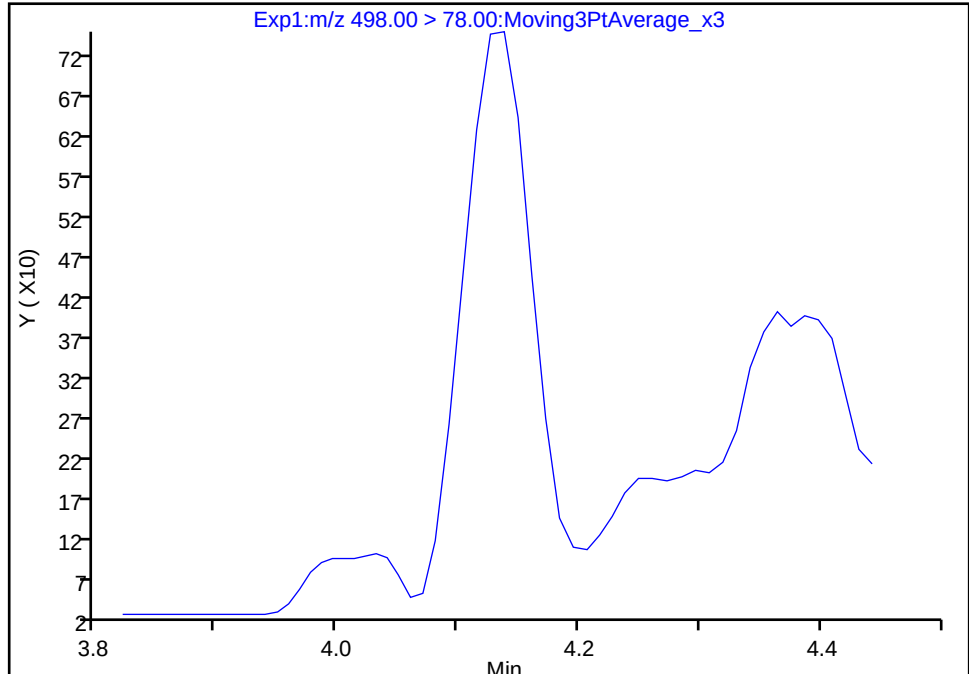
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

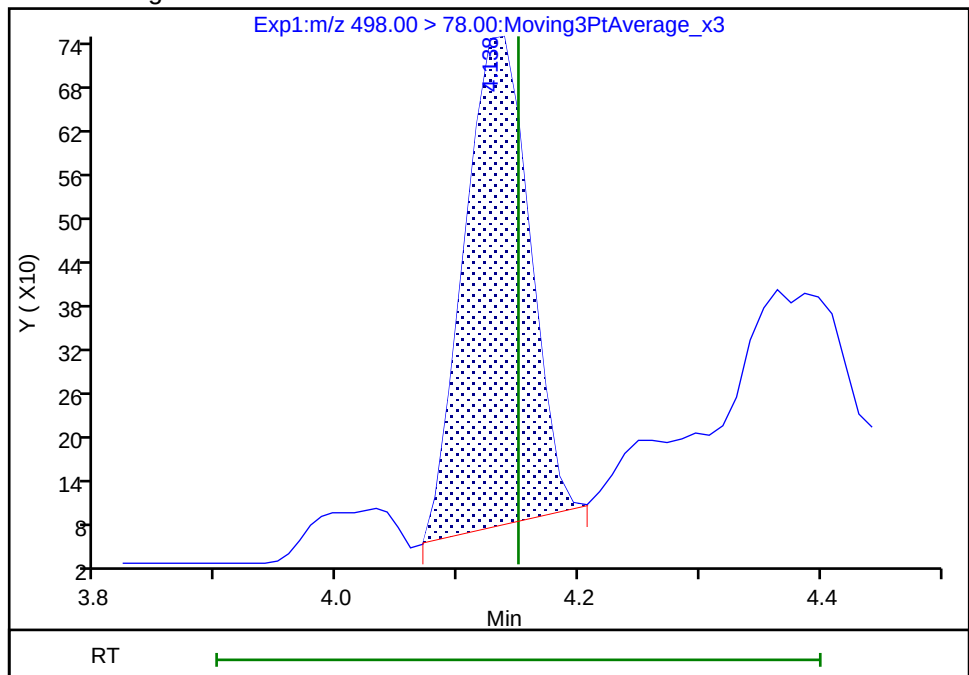
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:15:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

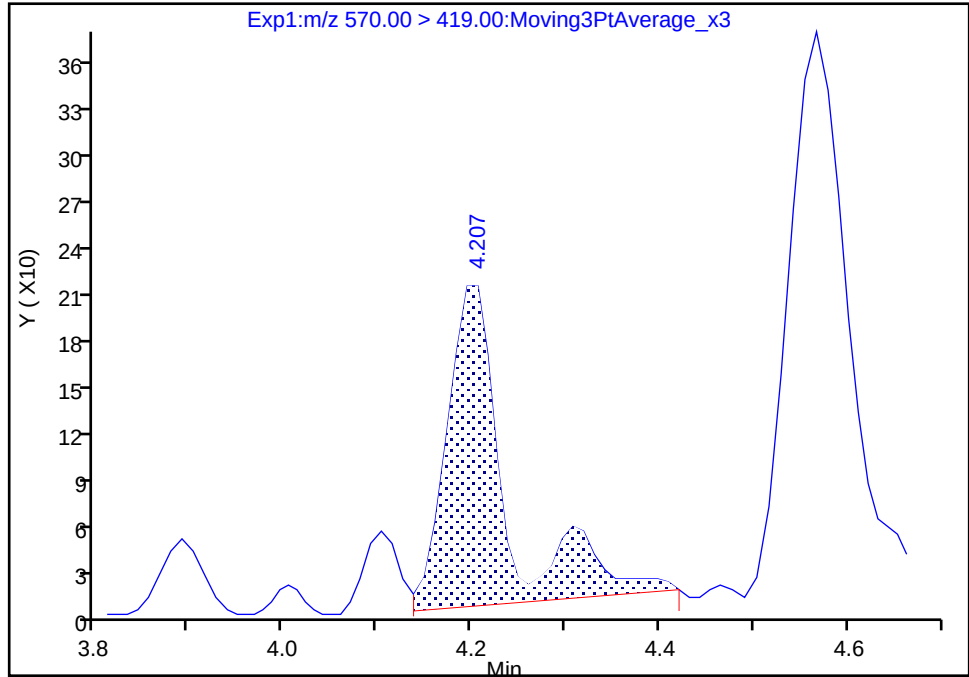
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

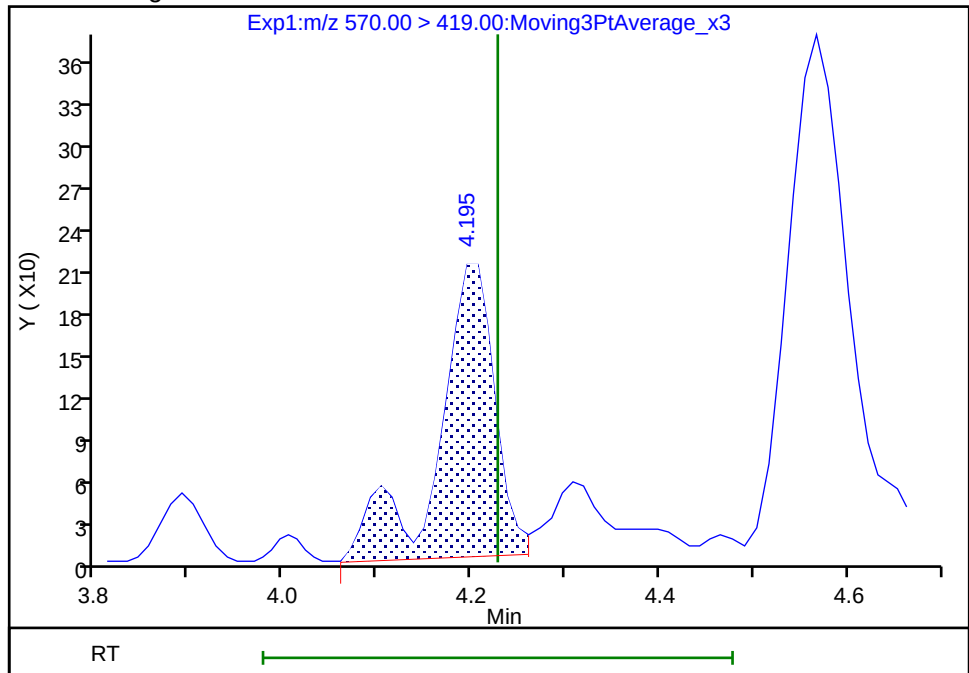
RT: 4.21
Area: 900
Amount: -0.009263
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 873
Amount: -0.009333
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:15:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

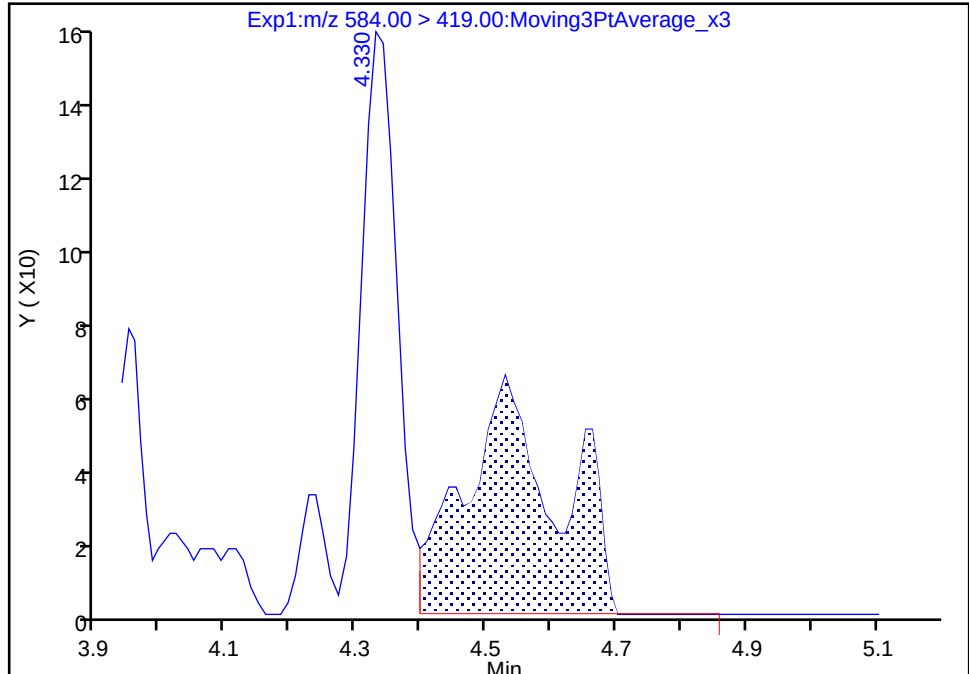
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

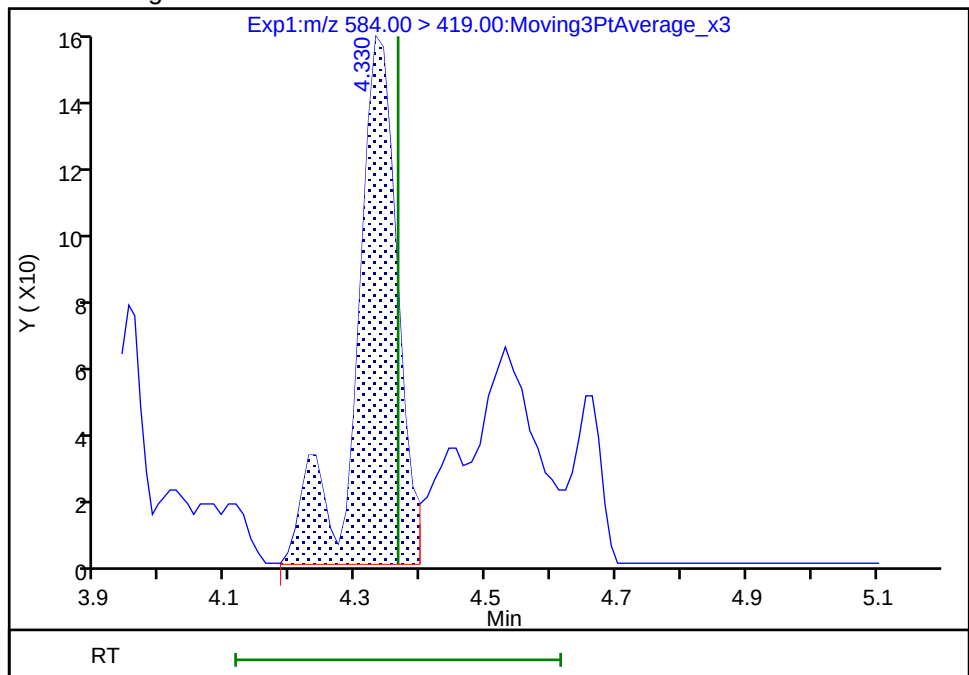
RT: 4.33
Area: 612
Amount: 0.001587
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 658
Amount: 0.001706
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:16:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

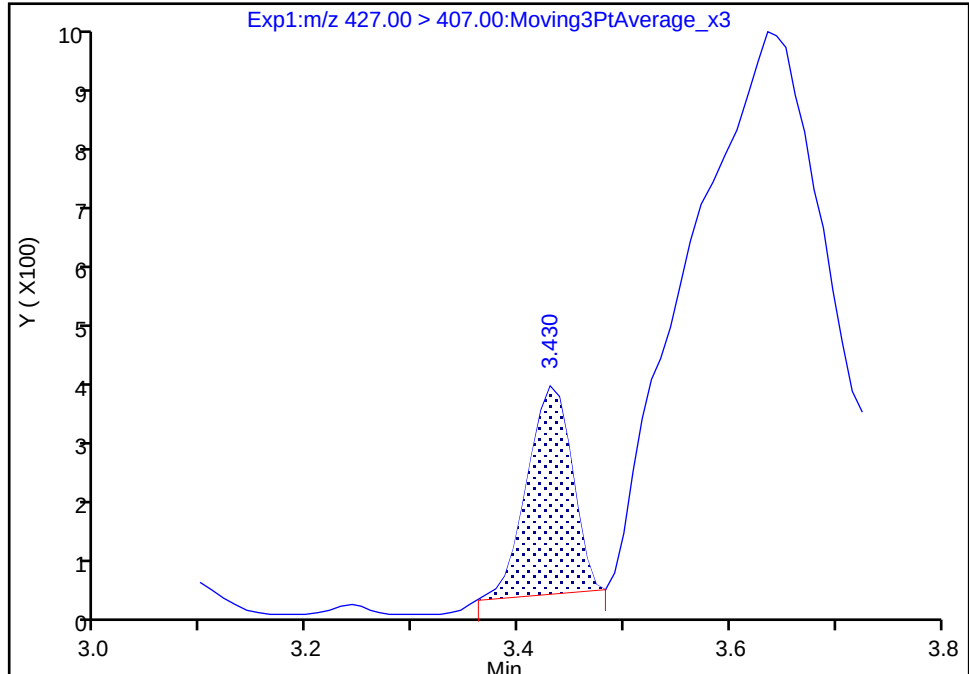
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

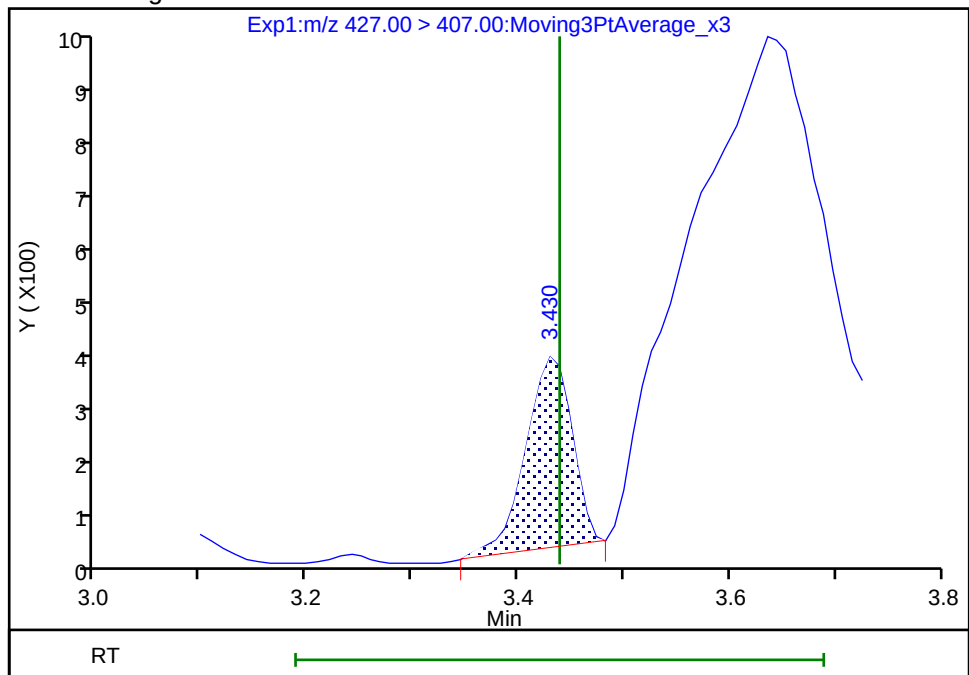
RT: 3.43
Area: 1051
Amount: -0.009977
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1112
Amount: -0.009867
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:14:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

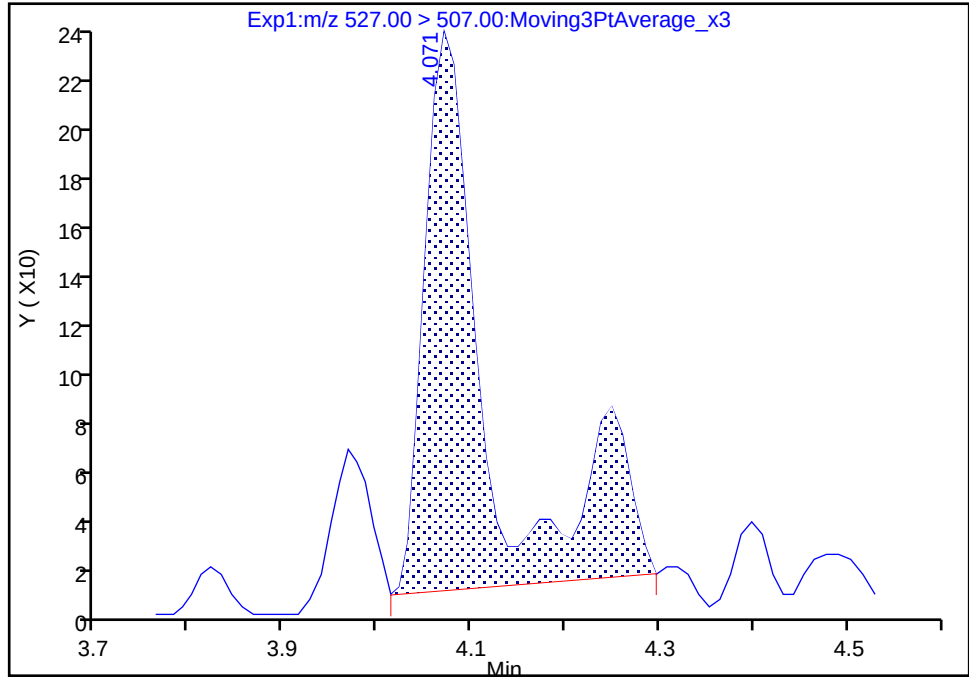
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d
Injection Date: 05-Jan-2023 18:13:52 Instrument ID: LC812
Lims ID: 460-271908-A-4-A Lab Sample ID: 200-271908-4
Client ID: BCS-09-67_(12-12.5)P
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

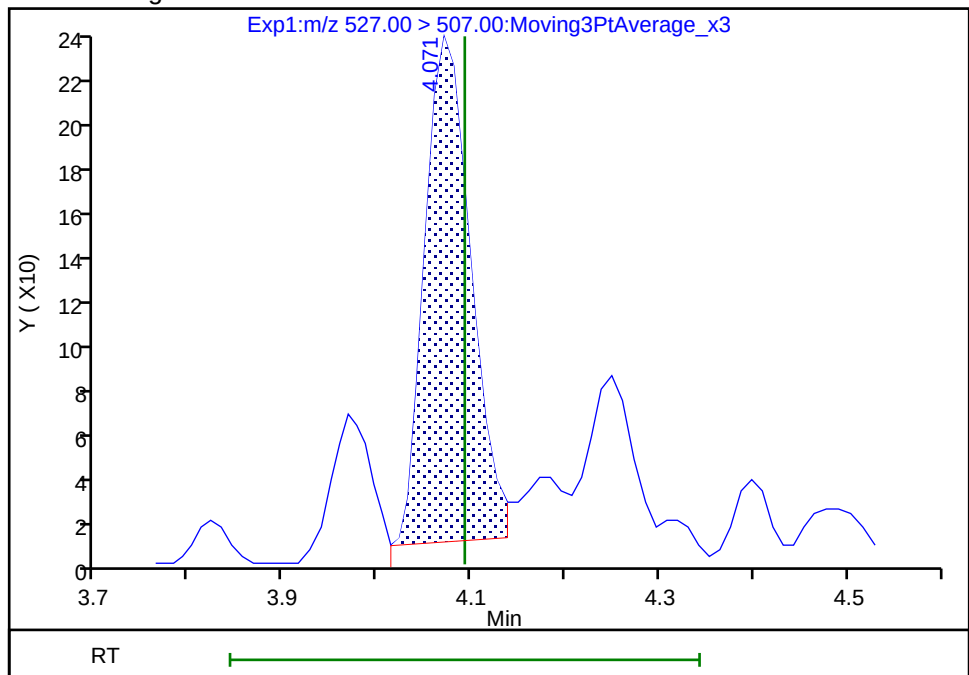
RT: 4.07
Area: 1046
Amount: 0.002031
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 760
Amount: 0.001476
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:15:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

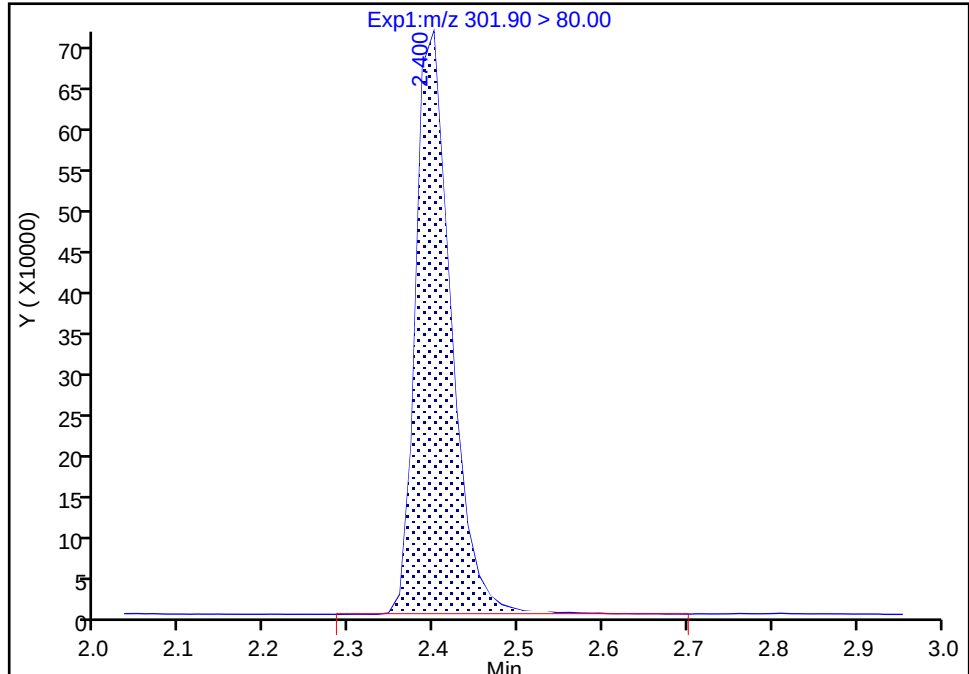
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A26.d				
Injection Date:	05-Jan-2023 18:13:52	Instrument ID:	LC812		
Lims ID:	460-271908-A-4-A	Lab Sample ID:	200-271908-4		
Client ID:	BCS-09-67_(12-12.5)P				
Operator ID:	lc812tech	ALS Bottle#:	23	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

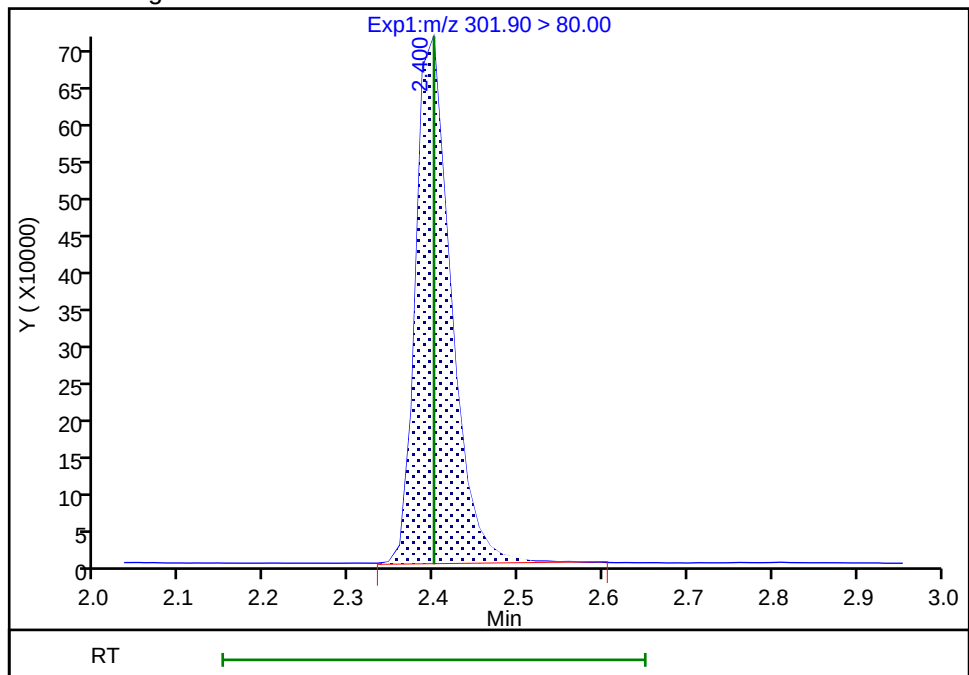
RT: 2.40
Area: 2082856
Amount: 0.955973
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2074001
Amount: 0.951908
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 14:13:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: FB-09-12212022P Lab Sample ID: 460-271908-5

Matrix: Water Lab File ID: PA230104A16.d

Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:45

Extraction Method: 3535 Date Extracted: 01/03/2023 10:54

Sample wt/vol: 288.9(mL) Date Analyzed: 01/04/2023 16:48

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.: 187252 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.33	U	4.33	1.04
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.73	U	1.73	0.59
307-24-4	Perfluorohexanoic acid (PFHxA)	1.73	U	1.73	0.56
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.73	U	1.73	0.47
335-67-1	Perfluorooctanoic acid (PFOA)	1.73	U	1.73	0.66
375-95-1	Perfluorononanoic acid (PFNA)	1.73	U	1.73	0.42
335-76-2	Perfluorodecanoic acid (PFDA)	1.73	U	1.73	0.40
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.73	U	1.73	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	1.73	U	1.73	0.42
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.73	U	1.73	0.42
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.73	U	1.73	0.55
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.73	U	1.73	0.54
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.73	U	1.73	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.73	U	1.73	0.35
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.73	U	1.73	0.35
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.73	U	1.73	0.74
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.73	U	1.73	0.80
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.33	U	4.33	1.64
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.33	U	4.33	1.38
27619-97-2	6:2 FTS	4.33	U	4.33	1.12
39108-34-4	8:2 FTS	1.73	U	1.73	0.67

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: FB-09-12212022P Lab Sample ID: 460-271908-5
 Matrix: Water Lab File ID: PA230104A16.d
 Analysis Method: 537 (modified) Date Collected: 12/21/2022 13:45
 Extraction Method: 3535 Date Extracted: 01/03/2023 10:54
 Sample wt/vol: 288.9(mL) Date Analyzed: 01/04/2023 16:48
 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.: 187252 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	49	*	50-150
STL00992	13C4 PFBA	84		50-150
STL01893	13C5 PFPeA	83		50-150
STL00993	13C2 PFHxA	91		50-150
STL01892	13C4 PFHpA	90		50-150
STL00990	13C4 PFOA	96		50-150
STL00995	13C5 PFNA	99		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	81		50-150
STL00998	13C2 PFDoA	74		50-150
STL02116	13C2 PFTeDA	83		50-150
STL02337	13C3 PFBS	87		50-150
STL00994	18O2 PFHxS	93		50-150
STL00991	13C4 PFOS	91		50-150
STL02118	d3-NMeFOSAA	77		50-150
STL02117	d5-NEtFOSAA	73		50-150
STL02279	M2-6:2 FTS	105		50-150
STL02280	M2-8:2 FTS	99		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d
 Lims ID: 460-271908-B-5-A
 Client ID: FB-09-12212022P
 Sample Type: Client
 Inject. Date: 04-Jan-2023 16:48:07 ALS Bottle#: 13 Worklist Smp#: 16
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271908-B-5-A
 Misc. Info.: 200-0053892-016 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 08:37:21 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: nampitakw

Date: 05-Jan-2023 18:03:13

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	2.076	0.0	0.604	2720155	1.05		84.2	7840	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.076	0.026	1.012	26490	0.0118			2.7	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.387	-0.014	0.690	2041513	1.04		82.9	2501	
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.698	2159697	1.01		86.8	141183	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	1760	0.000828	Target=2.09		1.6	M
298.90 > 99.00	2.400	2.400	0.0	1.000	796		2.21(1.04-3.13)		0.4	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.792	2338578	1.13		90.7	5888	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.004	6110	0.002997	Target=14.25		0.7	M
313.00 > 119.00	2.725	2.725	0.0	1.000	409		14.94(7.12-21.37)		0.7	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.898	1716266	1.10		93.1	3028	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	6588	0.004022	Target=3.66		15.7	M
399.00 > 99.00	3.099	3.088	0.011	1.004	1891		3.48(1.83-5.49)		2.4	
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.898	2382490	1.12		89.8	2533	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.077	3.099	-0.023	0.996	2406	0.001159	Target=3.97		0.4	M
363.00 > 169.00	3.088	3.099	-0.011	1.000	944		2.55(1.98-5.95)		1.0	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.997	324532	1.24		105	827	

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	3.430	3.439	-0.009	1.000	1562	-0.009167			2.0	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.003	2859365	1.20		95.9	6585	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.448	-0.009		2881050	1.25			3094	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.439	3.448	-0.009	0.997	3626	0.001483	Target=2.79		0.3	M
413.00 > 169.00	3.439	3.448	-0.009	0.997	1409		2.57(1.40-4.19)		1.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.092	1145979	1.08		90.7	3199	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.754	3.764	-0.010	1.000	4711	0.004039	Target=5.11		5.2	RM
499.00 > 99.00	3.754	3.764	-0.010	1.000	2683		1.76(2.55-7.66)		4.3	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.003	2904	0.001215	Target=8.55		0.7	M
463.00 > 169.00	3.773	3.783	-0.010	1.000	360		8.07(4.28-12.83)		2.3	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.097	2879482	1.24		99.4	4591	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.187	2766023	1.17		93.7	4904	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.081	4.081	0.0	1.000	3463	0.001443	Target=10.26		1.4	M
513.00 > 169.00	4.081	4.081	0.0	1.000	491		7.05(5.13-15.38)		2.5	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	380302	1.19		99.4	1279	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.003	1062	0.002068			12.8	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.150	0.0	1.000	1768	0.001769			4.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.207	1195886	0.6175		49.4	1794	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.218	4.228	-0.010	1.226	464746	0.9662		77.3	2608	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.250	4.228	0.022	1.008	307	-0.0107			0.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	2203199	1.02		81.5	3109	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.353	4.353	0.0	1.003	1519	0.000855	Target=9.88		0.8	RM
563.00 > 169.00	4.353	4.353	0.0	1.003	359		4.23(4.94-14.82)		4.2	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.003	162	0.000523			1.8	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.266	432460	0.9131		73.0	905	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.002	2322	0.001338	Target=7.77	0.2		
613.00 > 169.00	4.601	4.591	0.010	1.005	210		11.06(3.89-11.66)	4.0		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	2047073	0.9288		74.3	5021	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.992	5.012	-0.020	1.452	1977810	1.04		83.0	6012	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d

Injection Date: 04-Jan-2023 16:48:07

Instrument ID: LC812

Lims ID: 460-271908-B-5-A

Lab Sample ID: 200-271908-5

Client ID: FB-09-12212022P

Operator ID: lc812tech

ALS Bottle#: 13

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

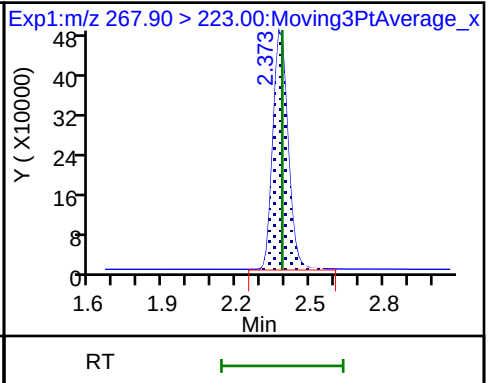
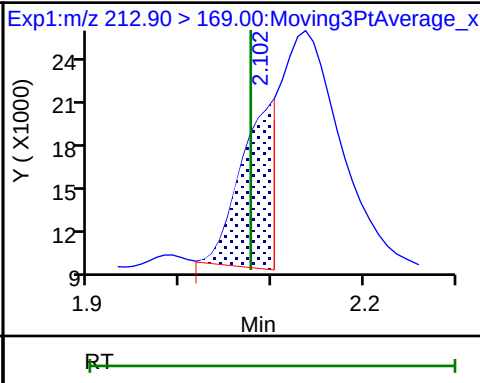
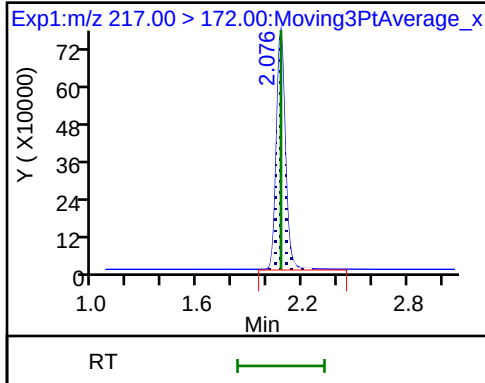
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

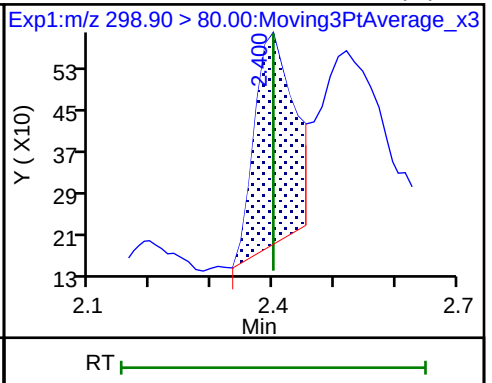
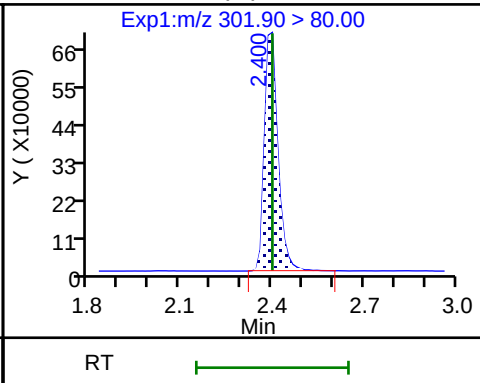
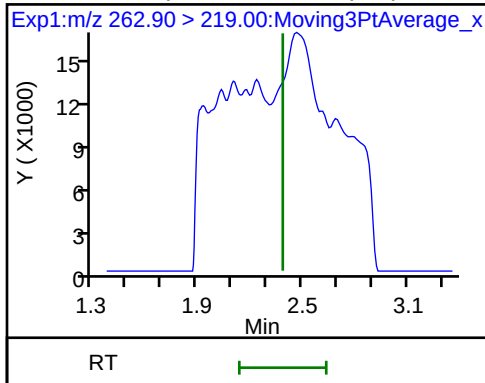
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS (M)

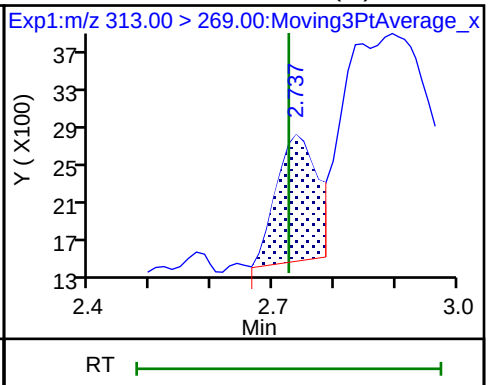
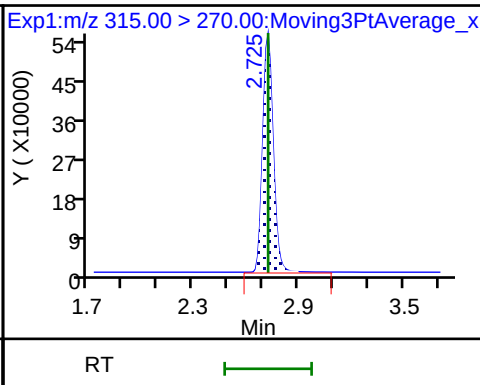
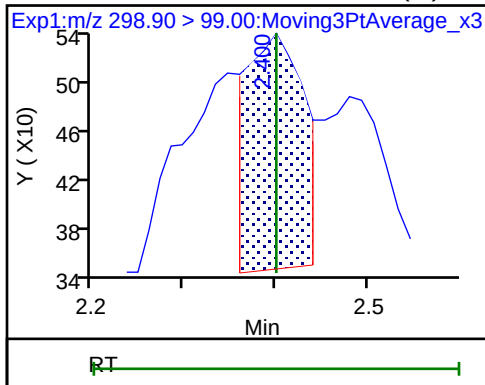
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

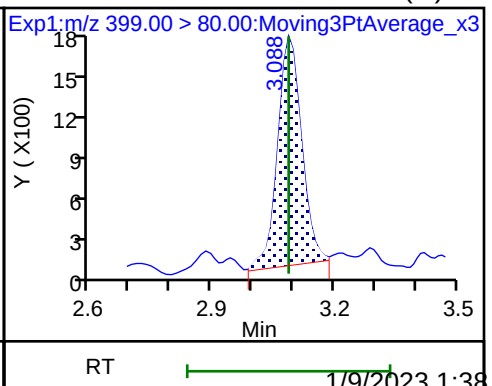
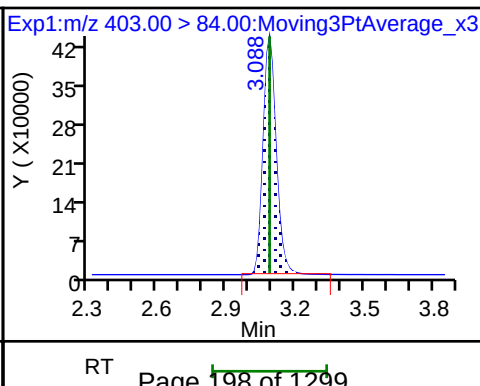
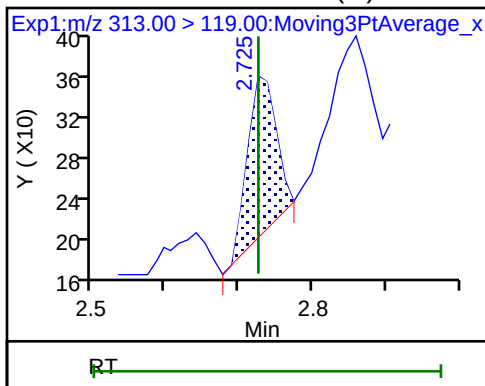
6 Perfluorohexanoic acid (M)

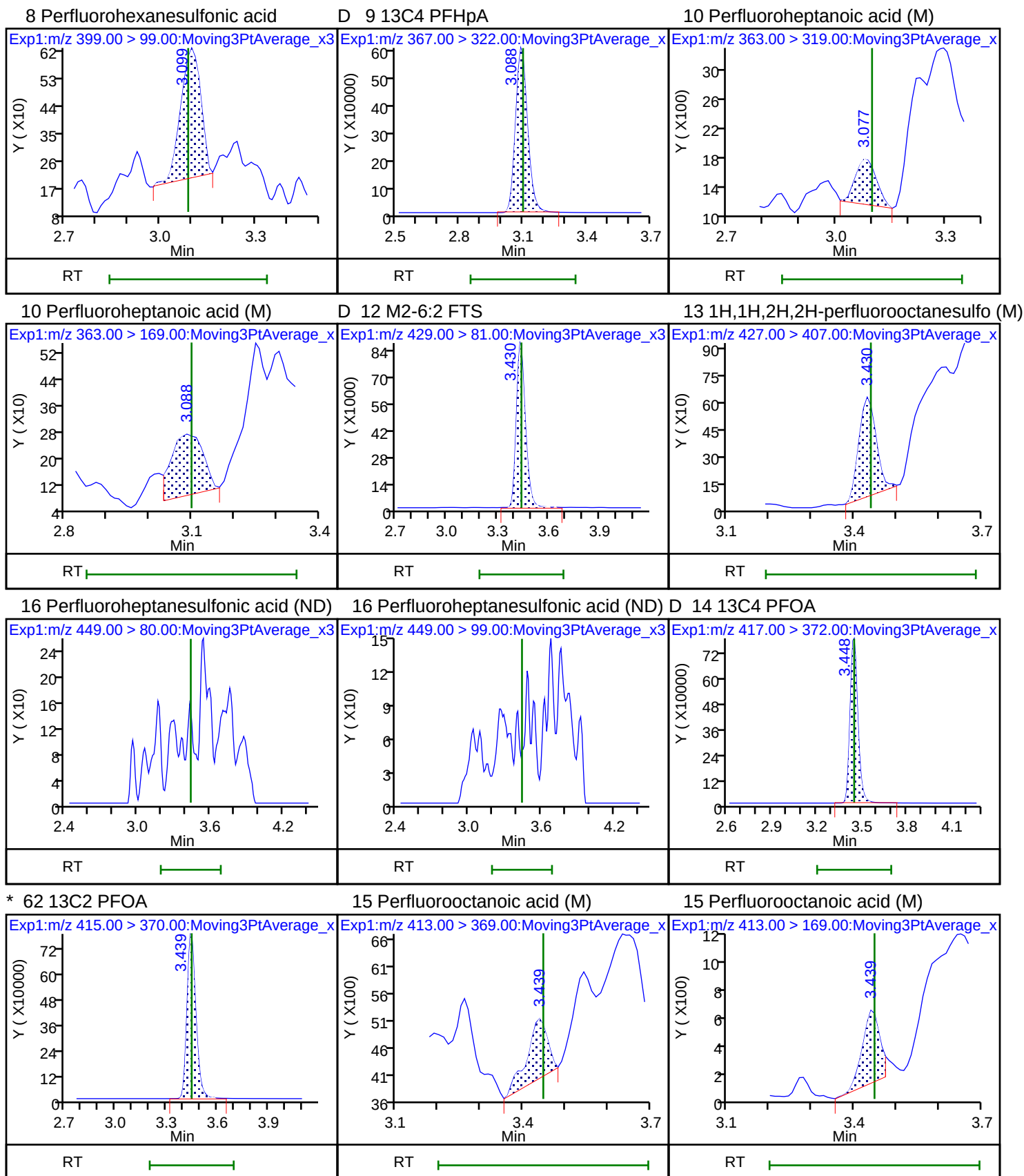


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

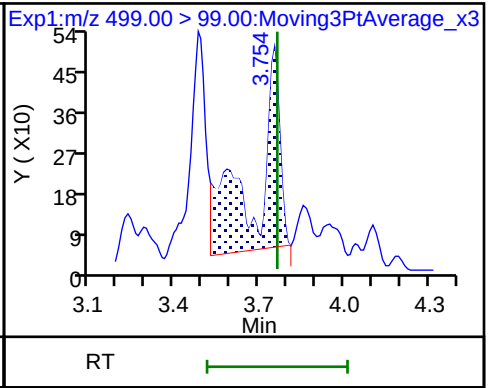
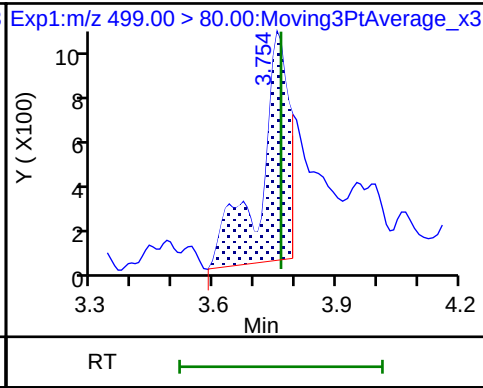
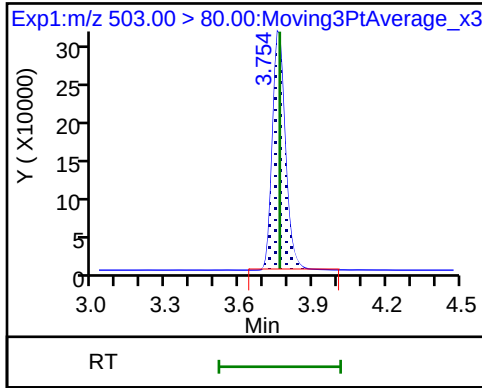




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

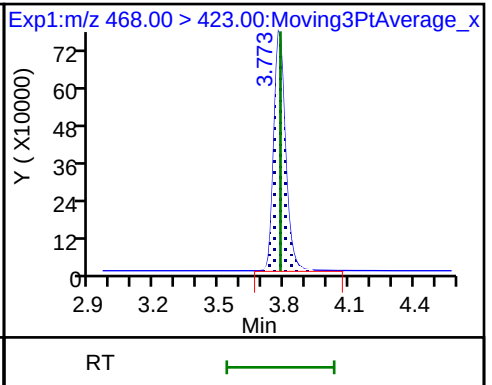
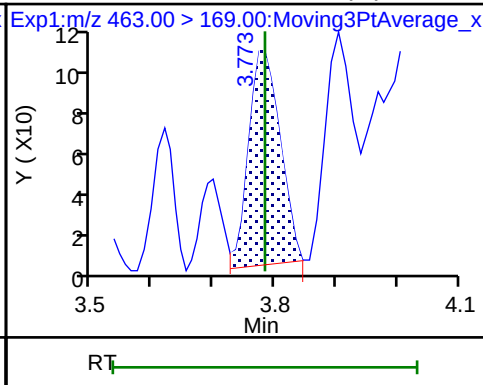
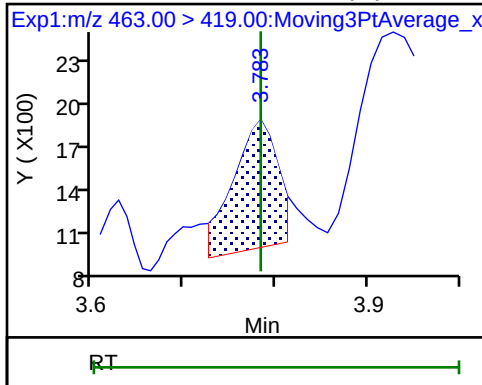
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

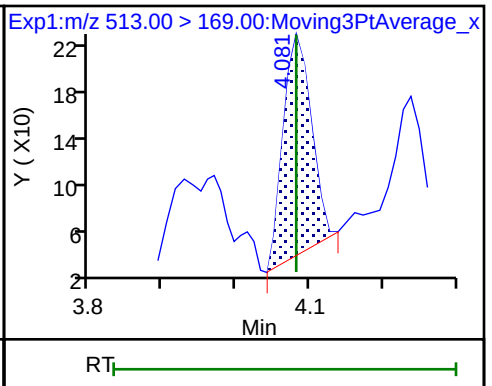
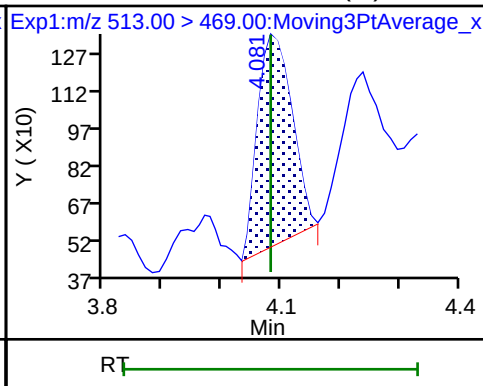
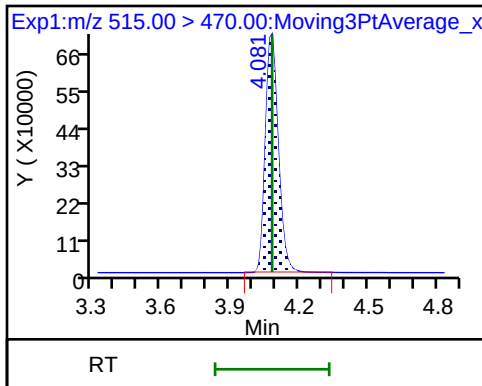
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

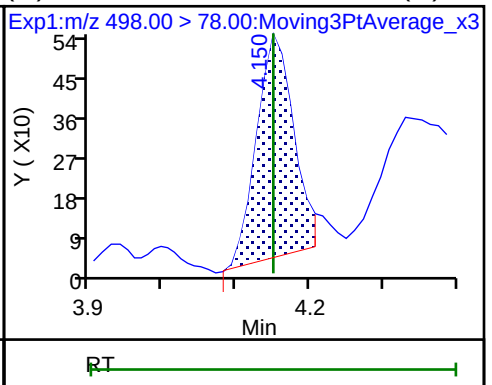
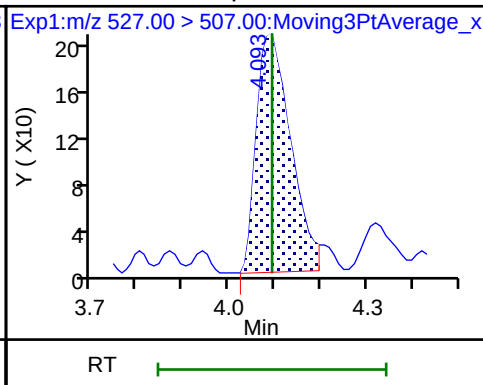
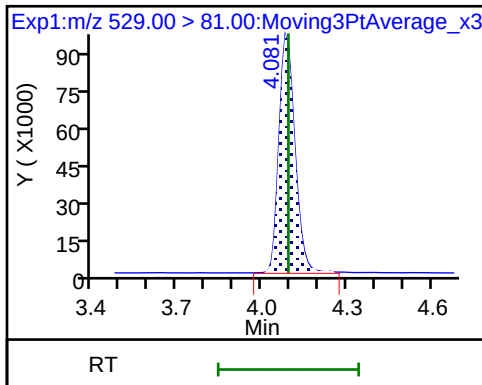
24 Perfluorodecanoic acid



D 26 M2-8:2 FTS

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

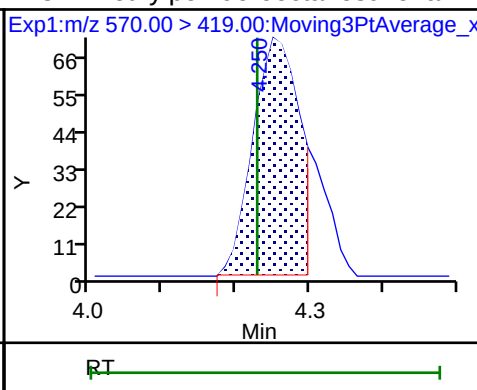
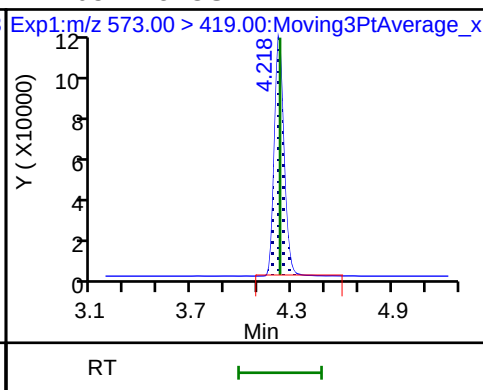
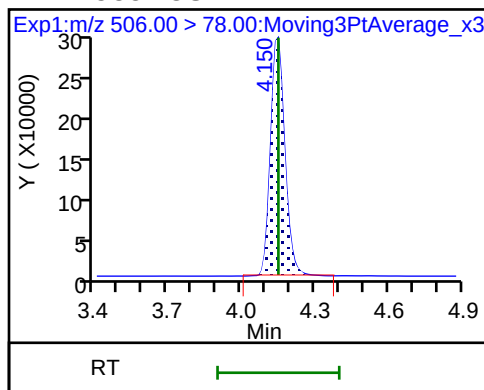
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

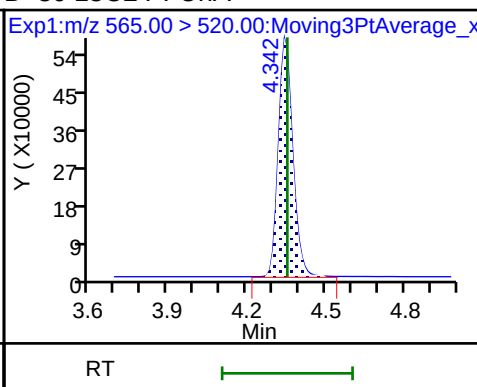
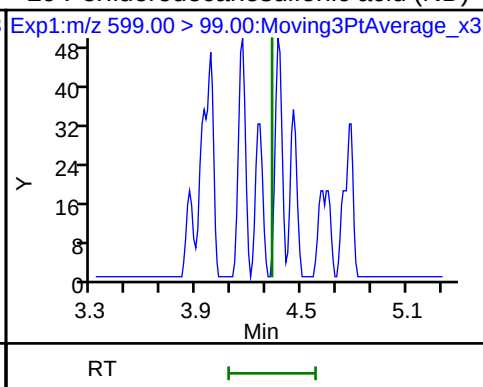
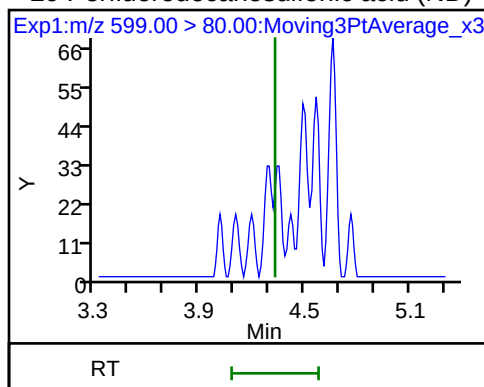
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

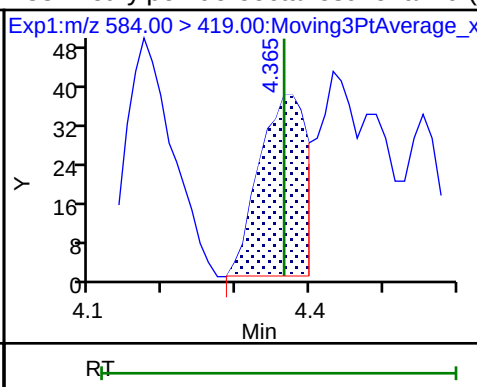
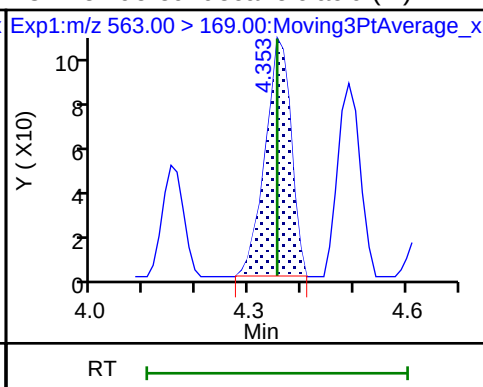
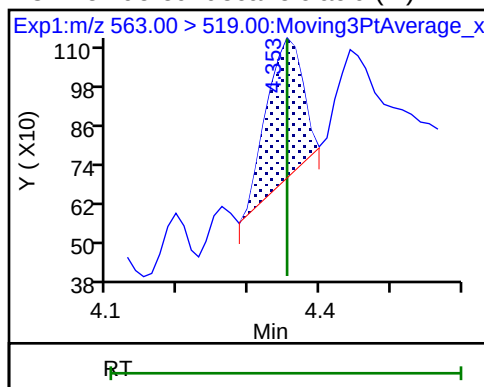
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

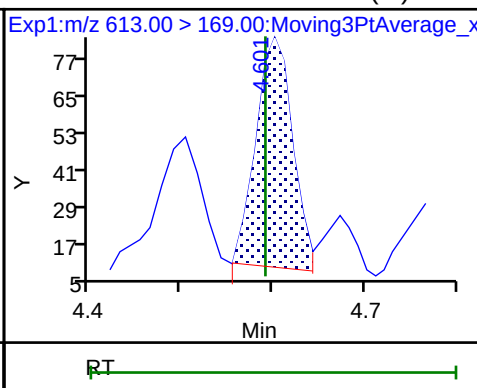
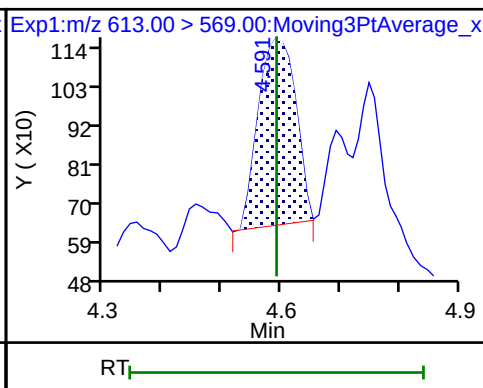
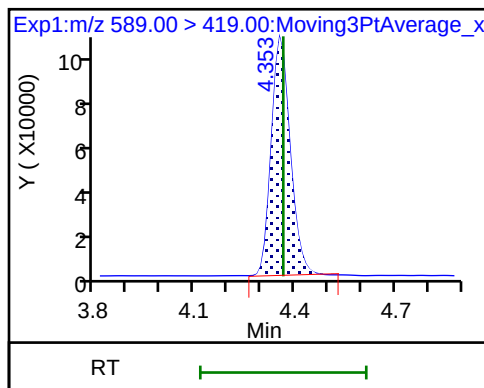
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid

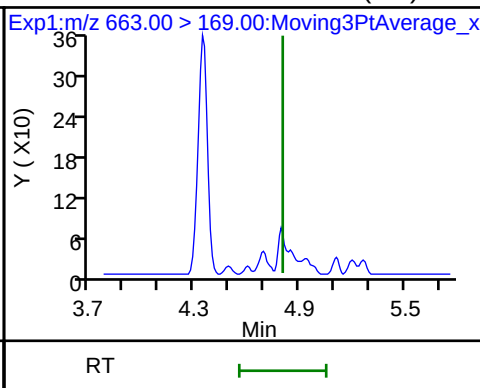
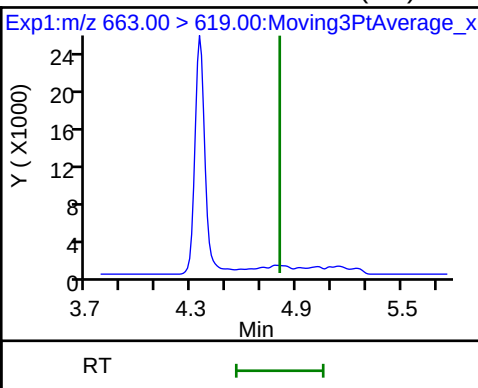
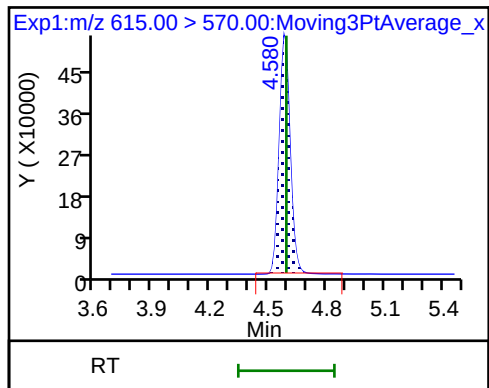
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (ND)

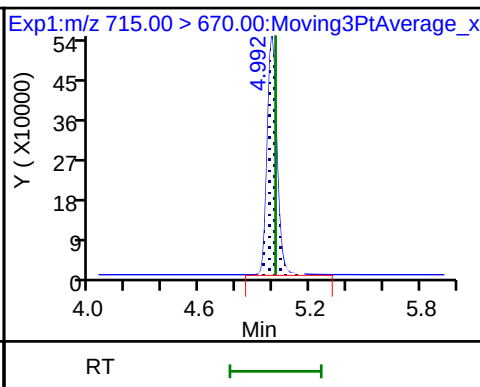
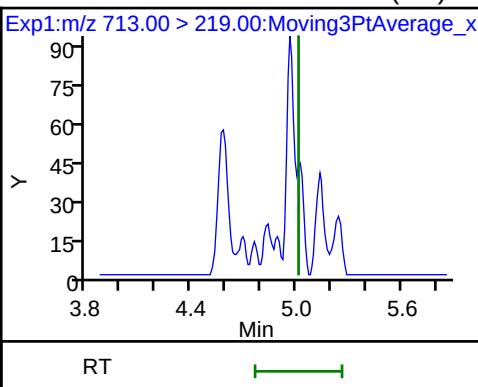
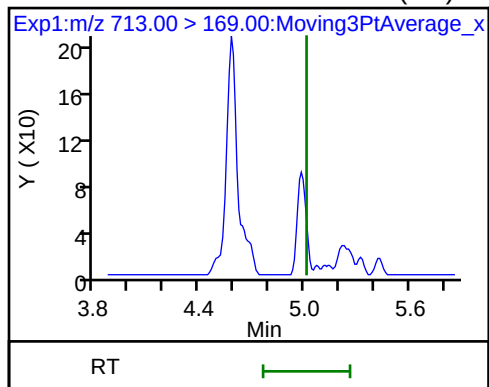
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)

D 43 13C2 PFTeDA



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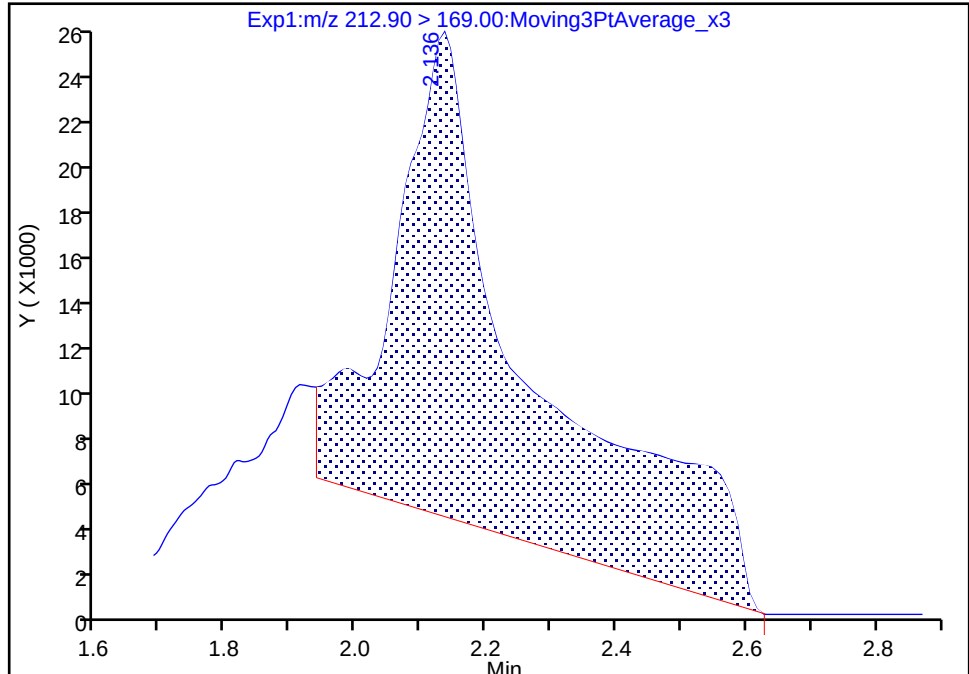
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Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

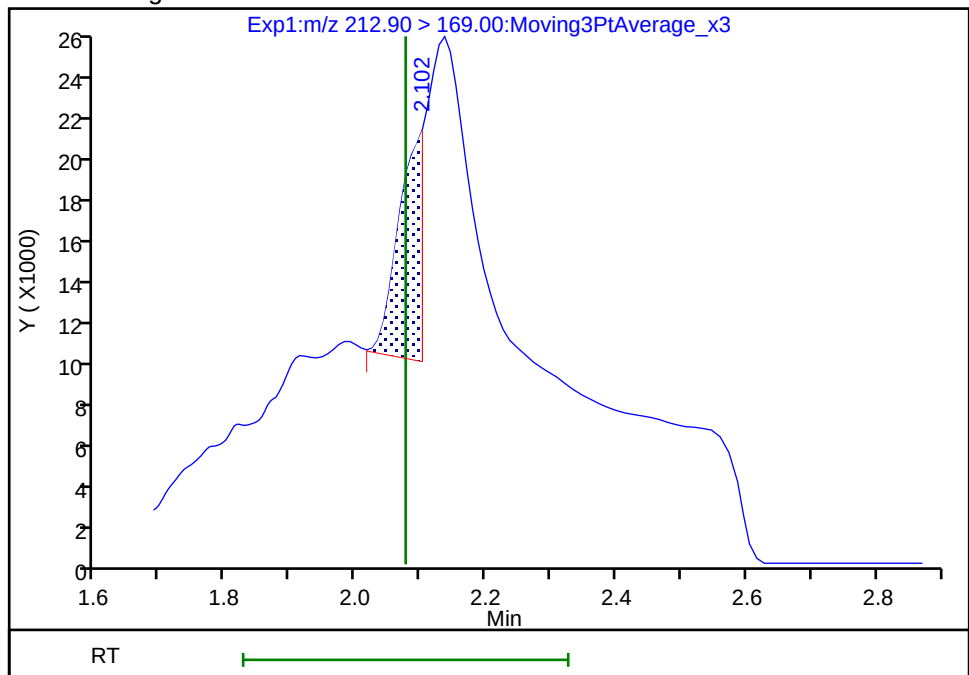
RT: 2.14
Area: 313625
Amount: 0.139761
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 26490
Amount: 0.011805
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 17:58:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

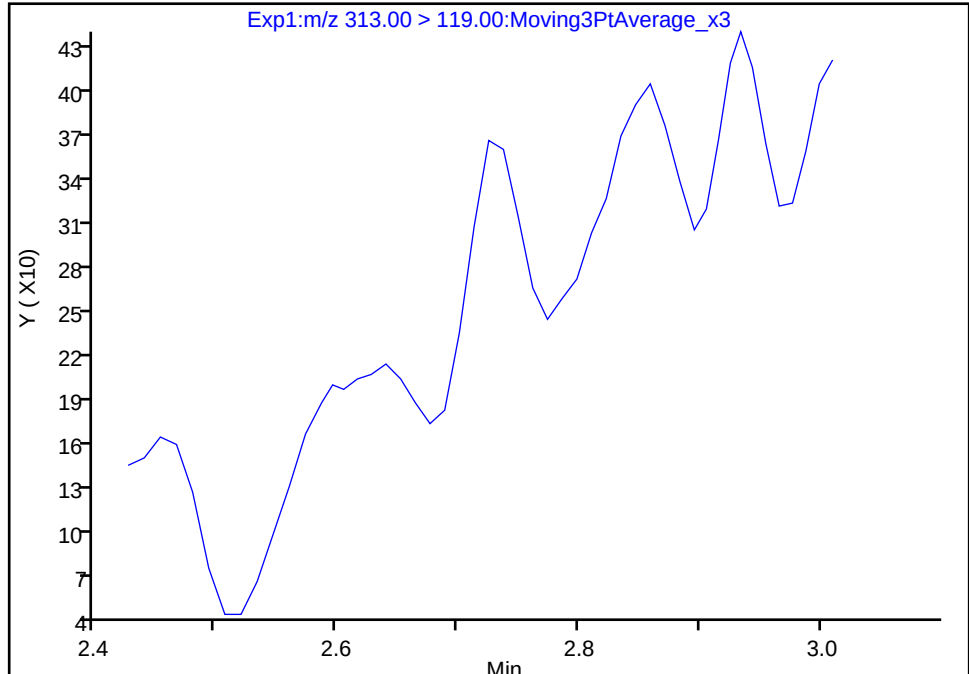
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Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

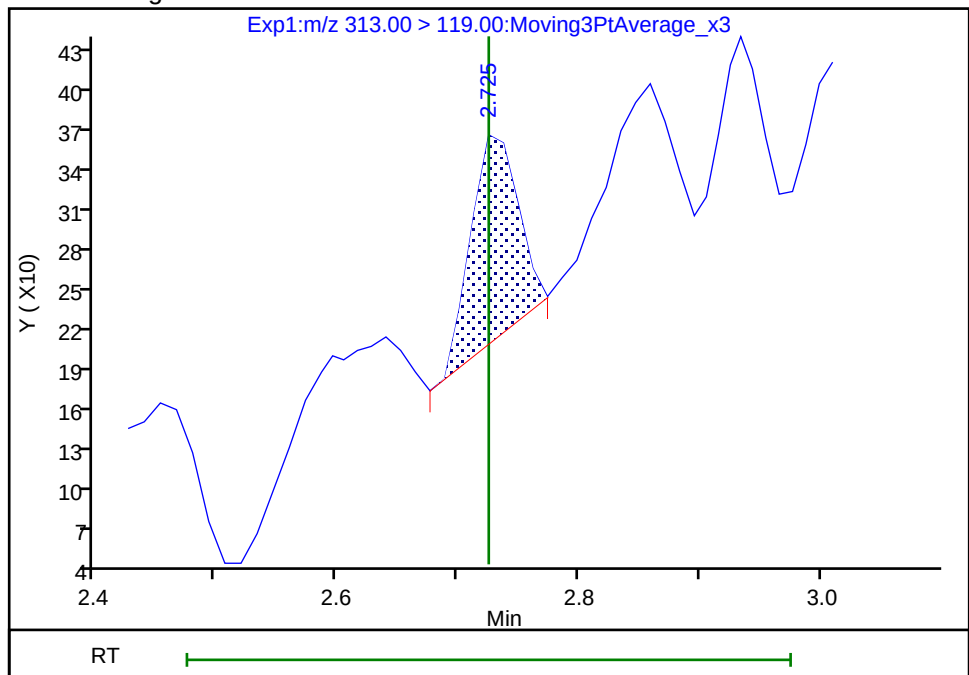
Not Detected
Expected RT: 2.73

Processing Integration Results



RT: 2.73
Area: 409
Amount: 0.002997
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 17:59:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

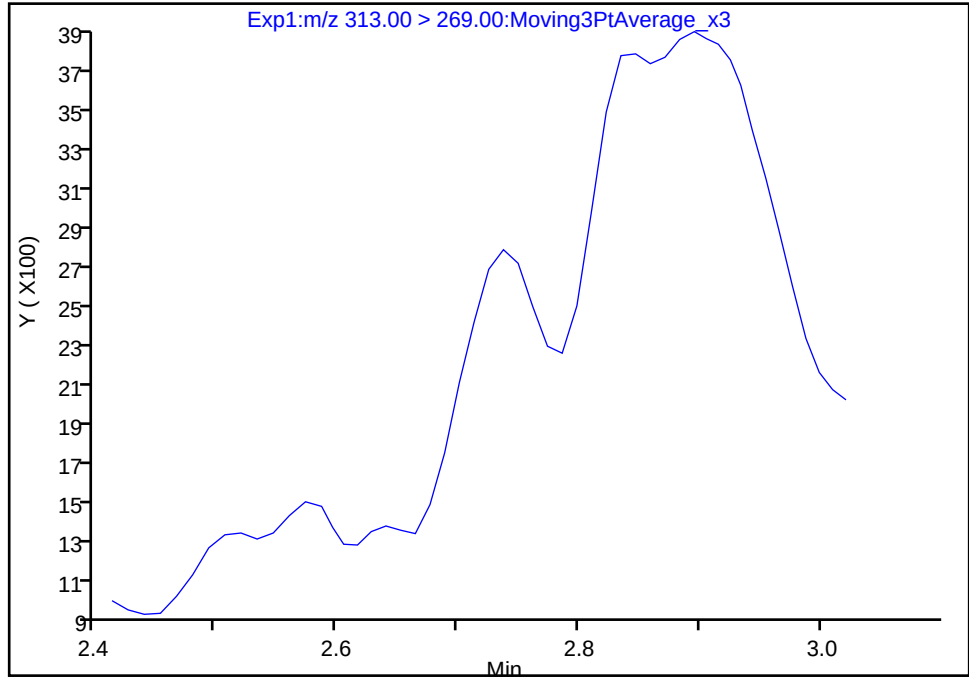
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Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

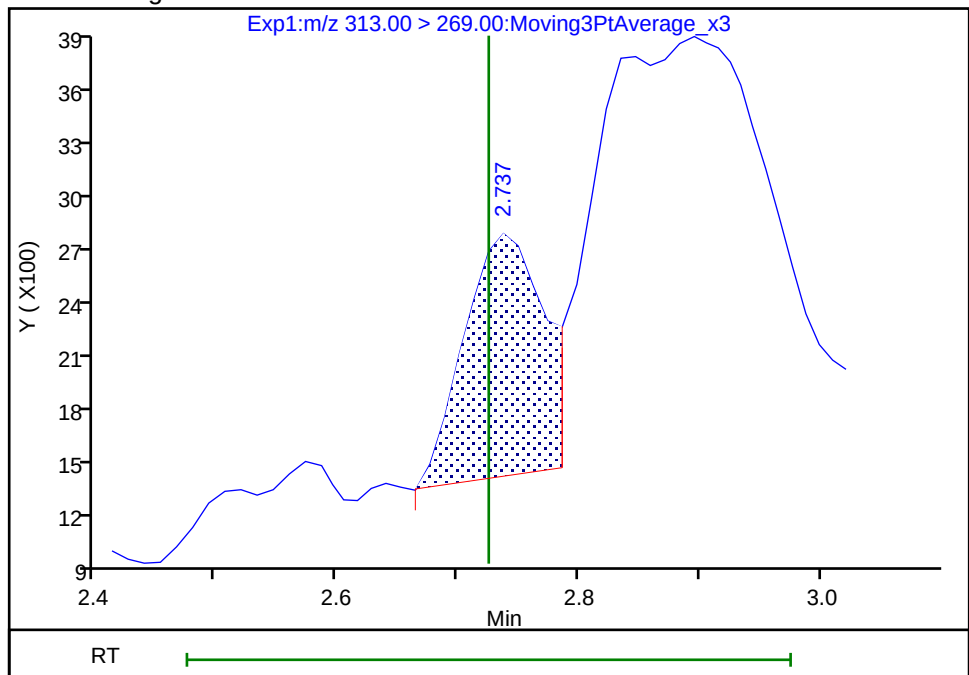
Signal: 1

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 17:59:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

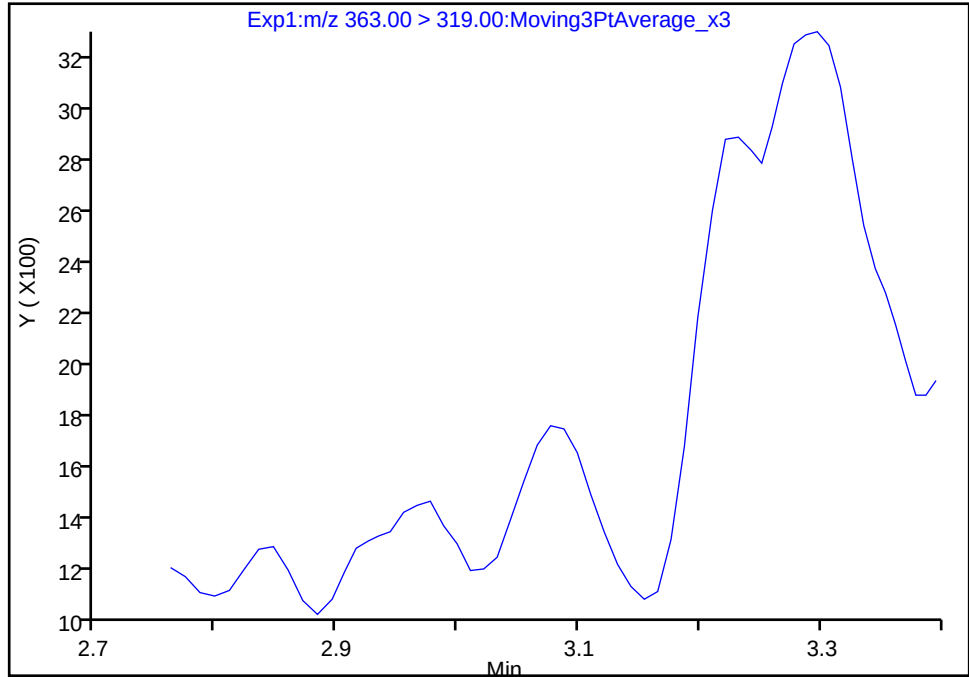
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Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

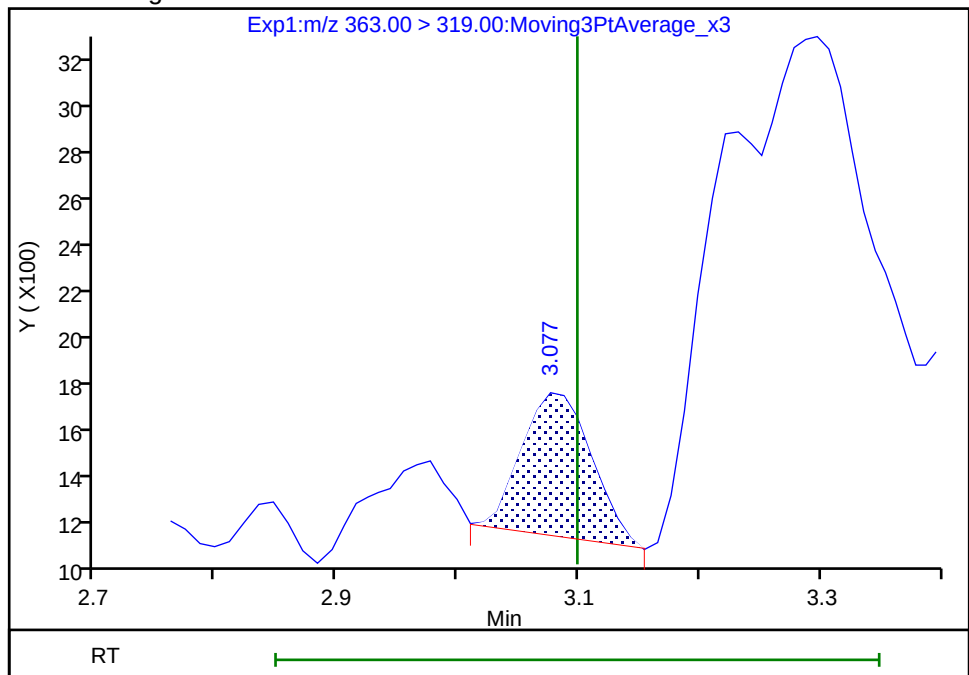
Signal: 1

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 18:00:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

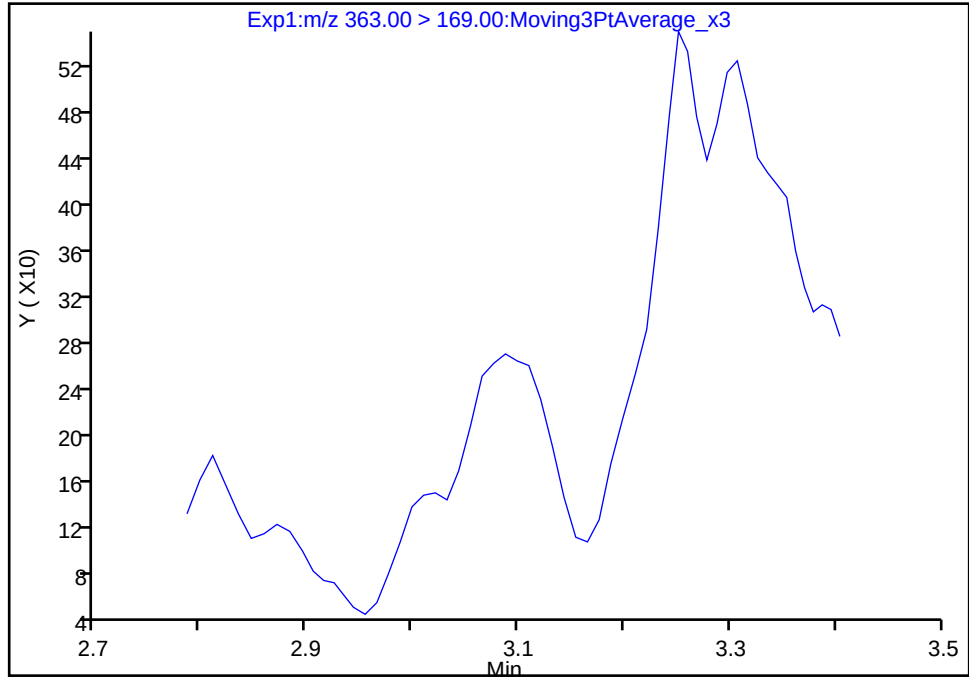
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Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
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Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

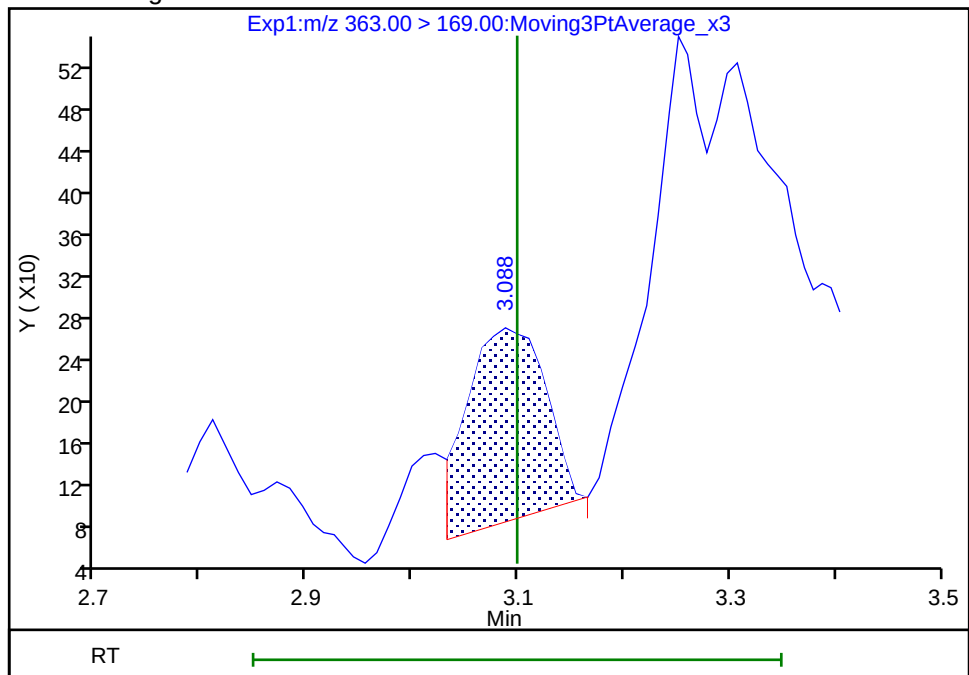
Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.09
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Amount: 0.001159
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 18:00:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

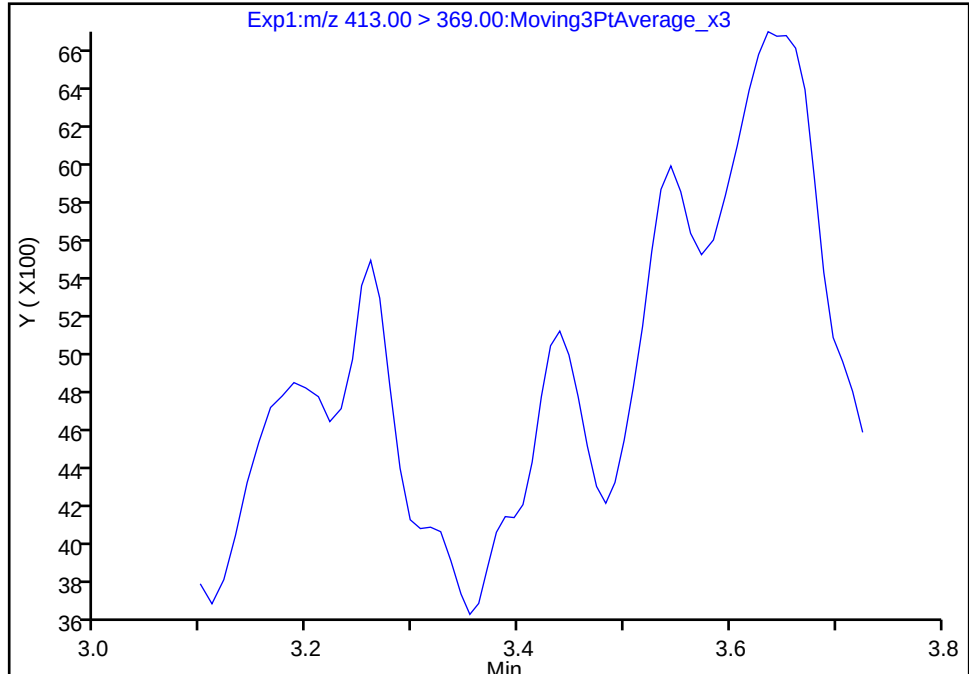
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	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

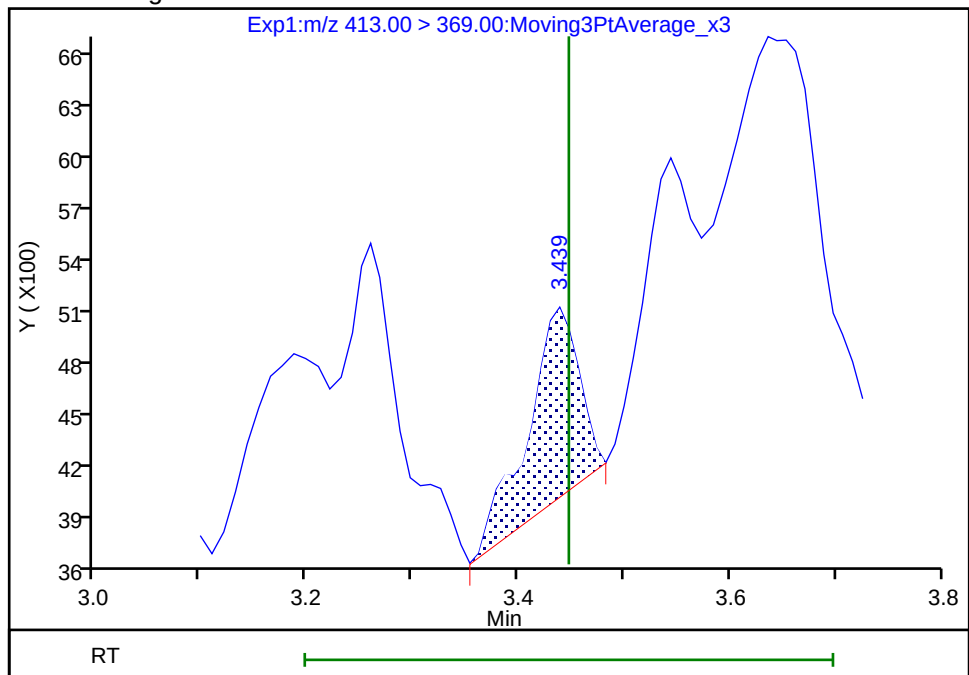
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 3626
Amount: 0.001483
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 18:00:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

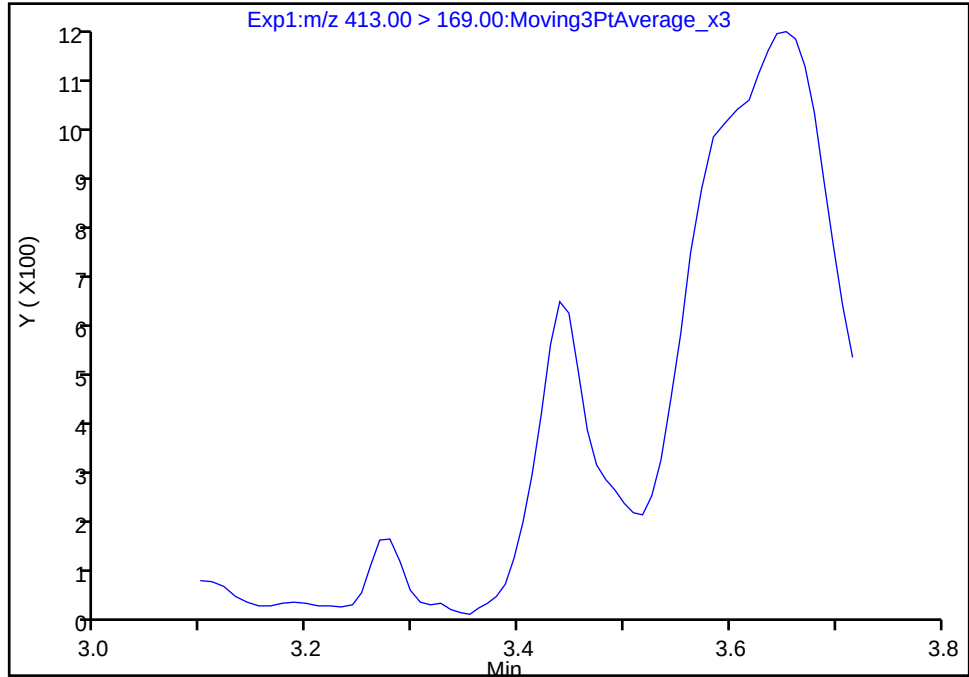
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d
Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. 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: 2

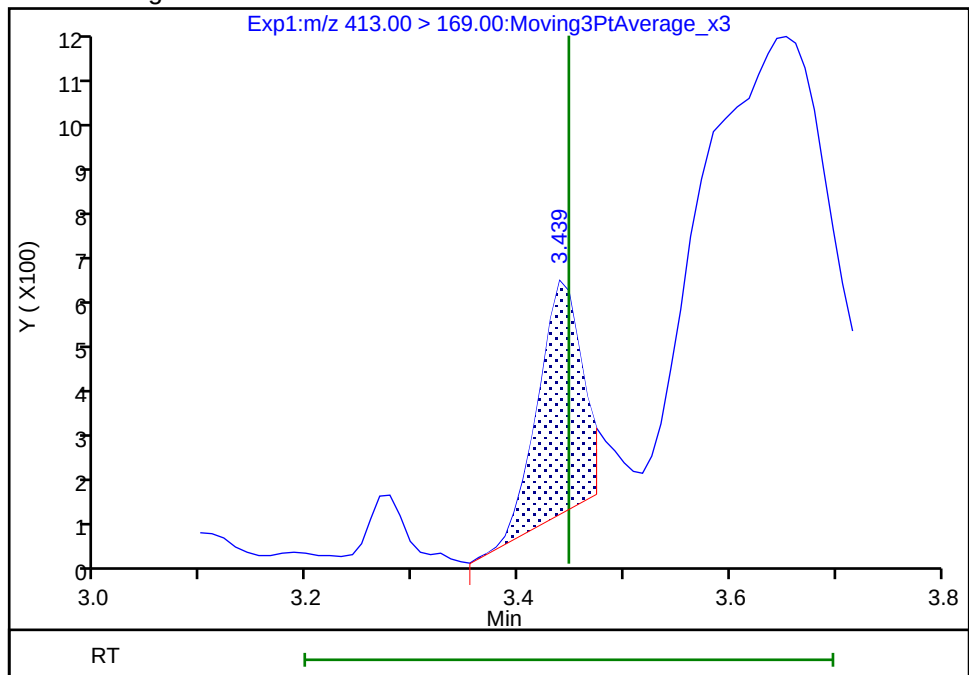
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 1409
Amount: 0.001483
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 18:00:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

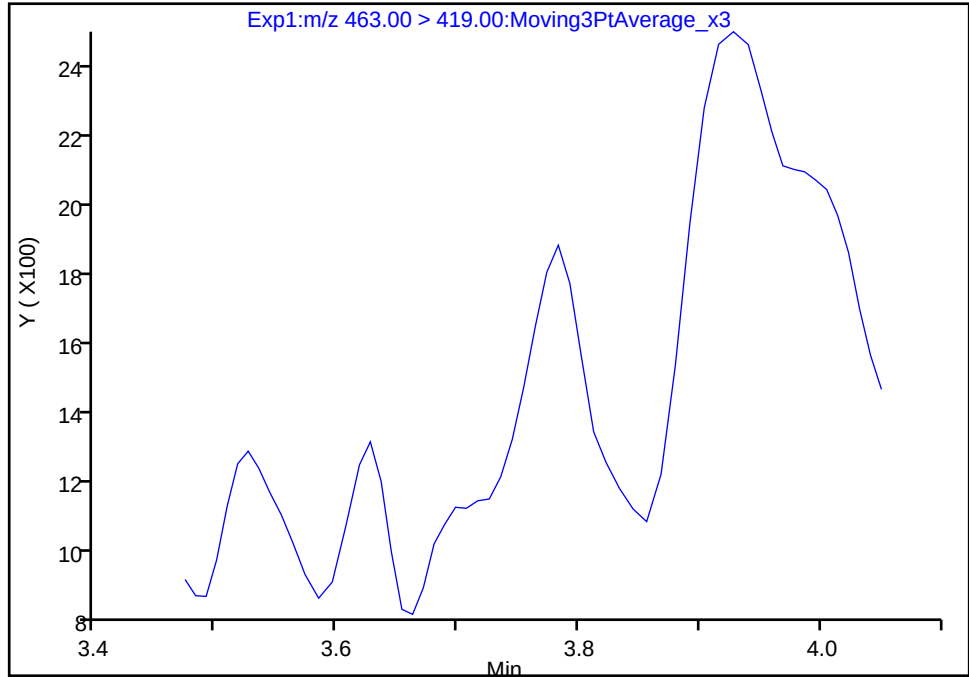
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d		
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5
Client ID:	FB-09-12212022P		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	16

20 Perfluorononanoic acid, CAS: 375-95-1

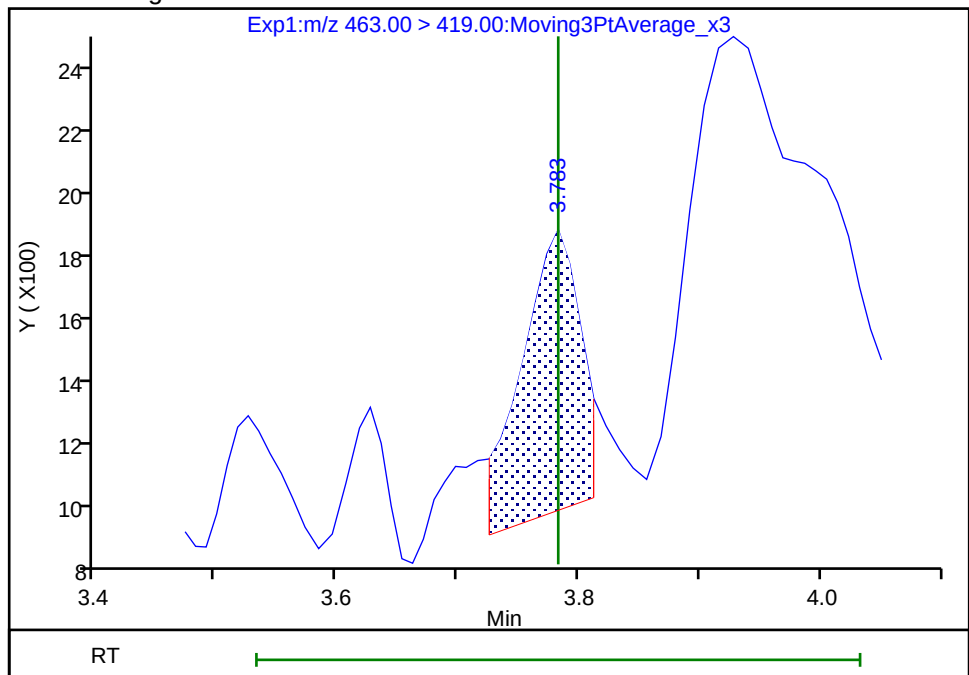
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 18:02:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

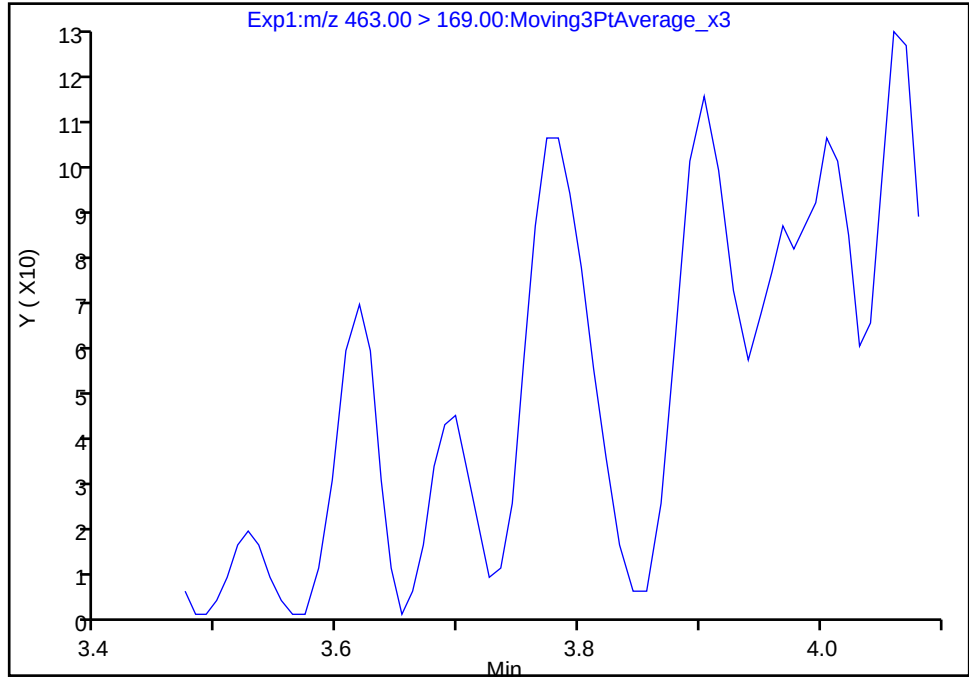
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d
Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

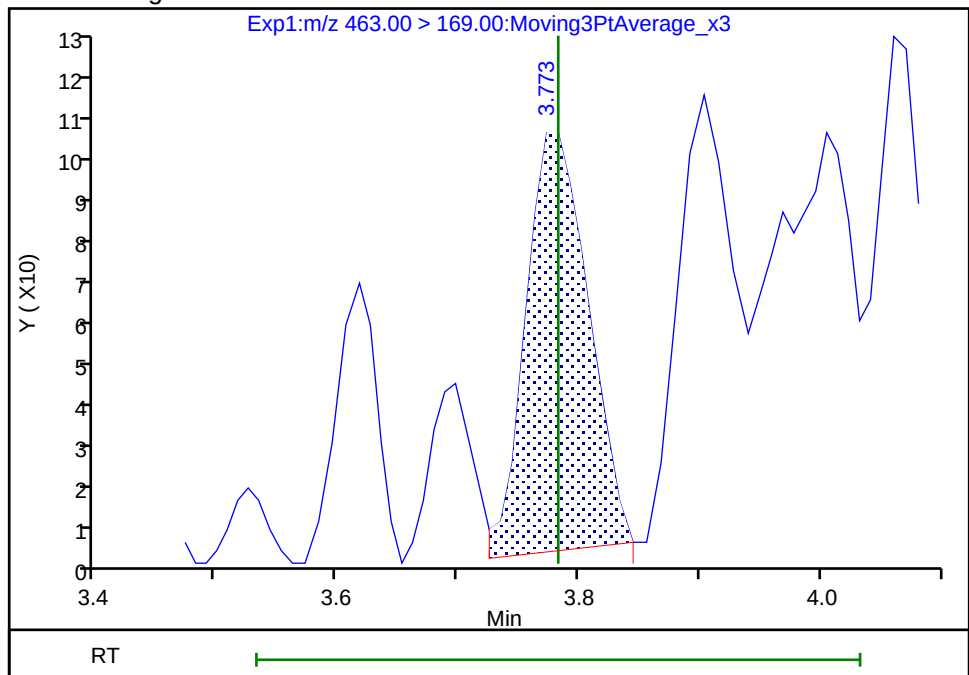
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 360
Amount: 0.001215
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 18:02:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d

Injection Date: 04-Jan-2023 16:48:07

Instrument ID: LC812

Lims ID: 460-271908-B-5-A

Lab Sample ID: 200-271908-5

Client ID: FB-09-12212022P

Operator ID: lc812tech

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)

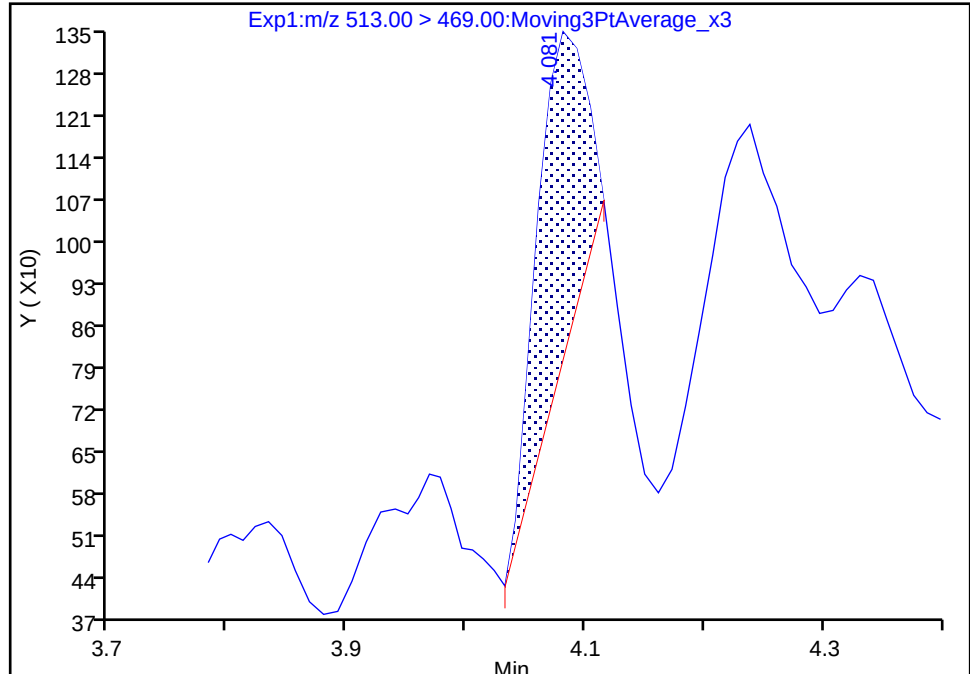
Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

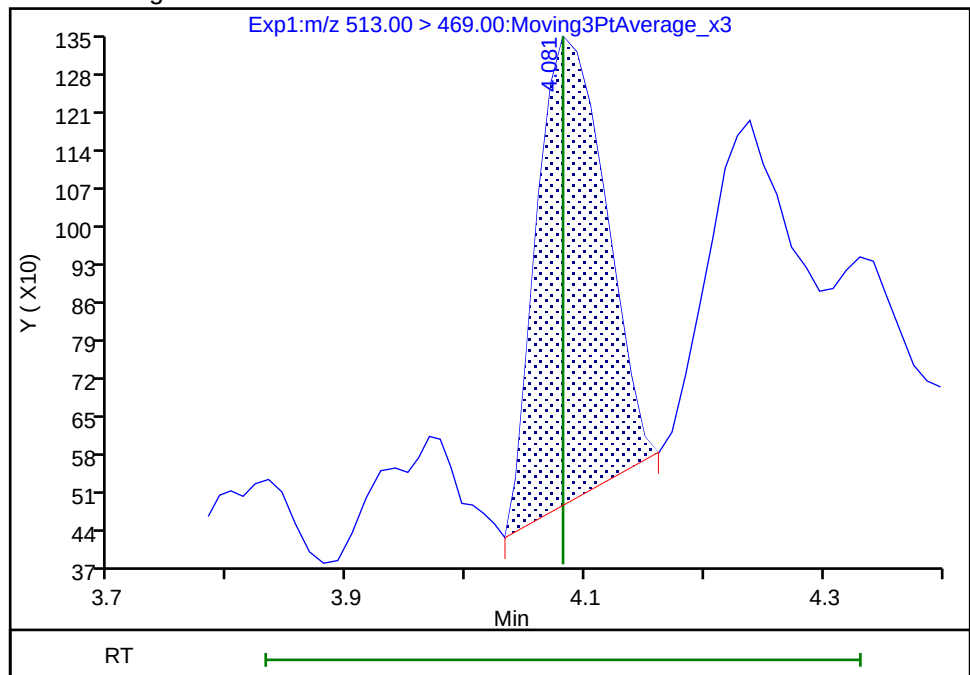
RT: 4.08
Area: 1543
Amount: 0.000643
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 3463
Amount: 0.001443
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 18:02:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

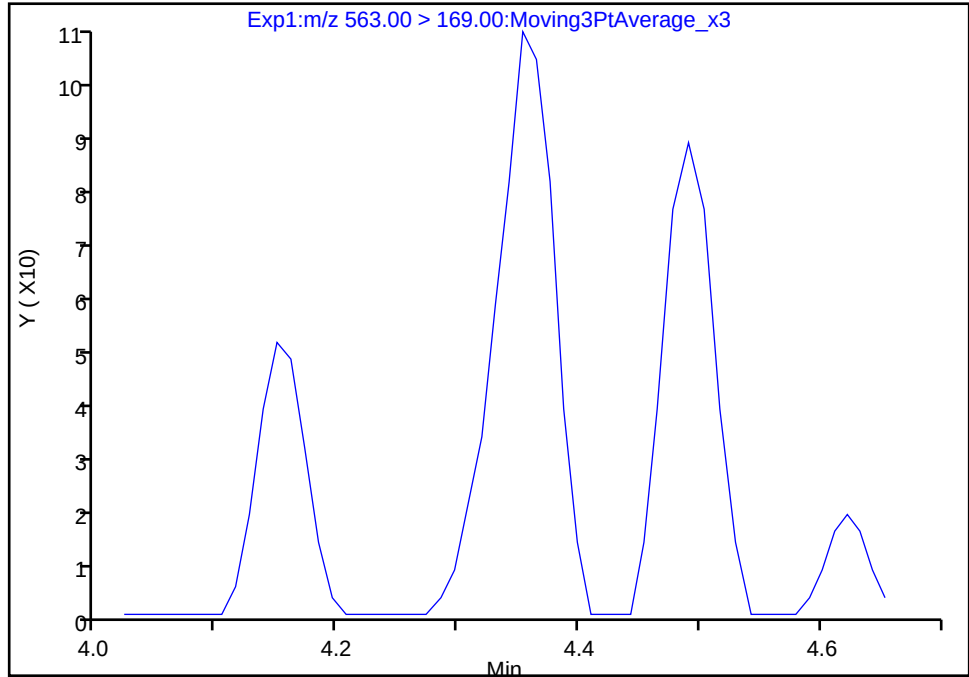
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

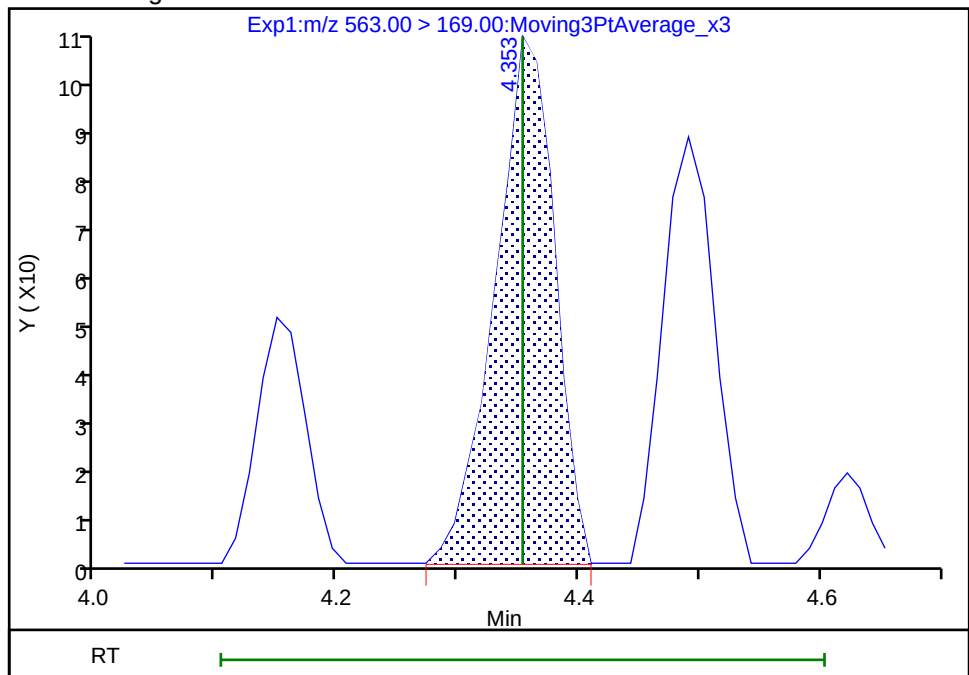
Signal: 2

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.35
Area: 359
Amount: 0.000855
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 18:02:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

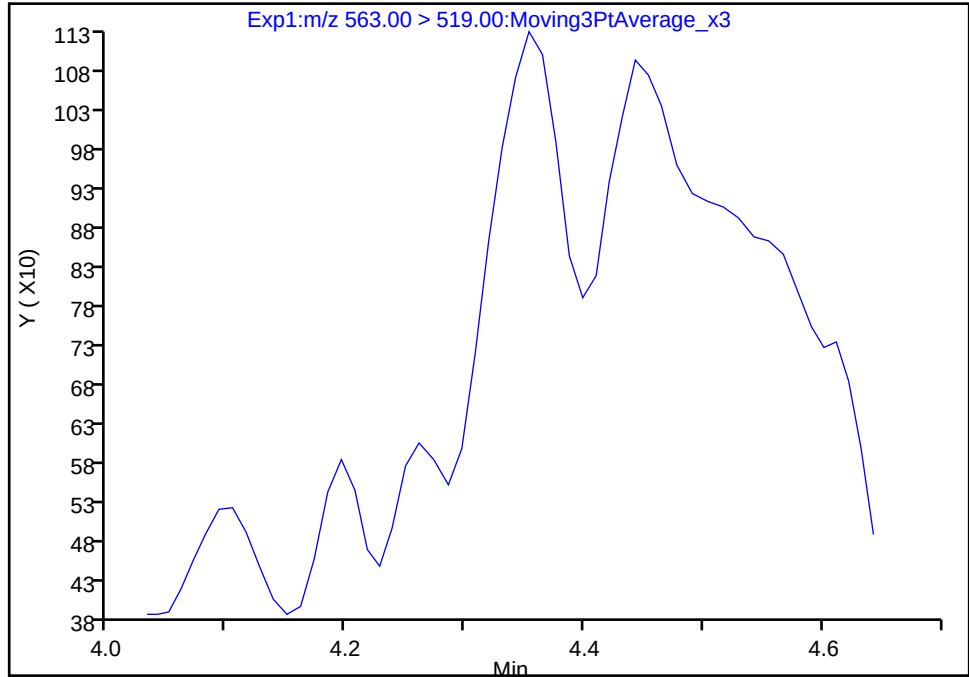
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d
Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

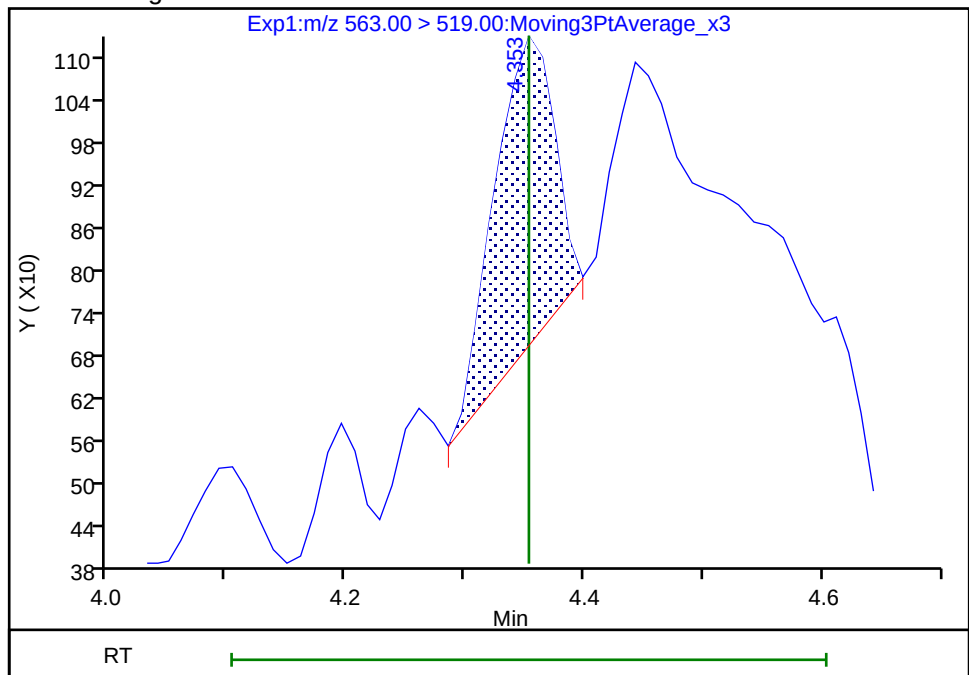
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 1519
Amount: 0.000855
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 18:02:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

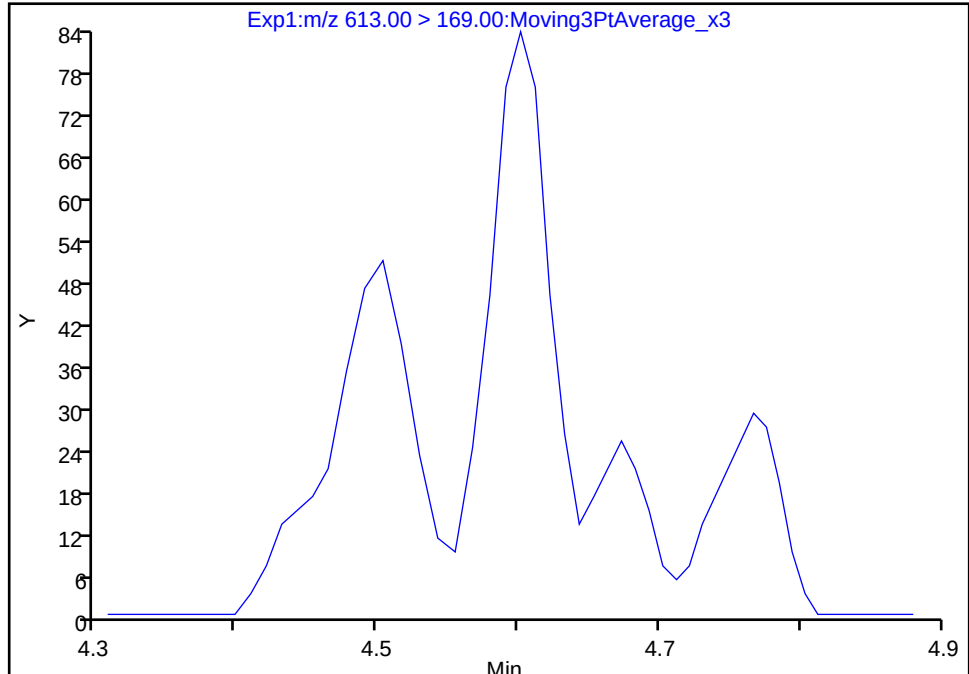
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

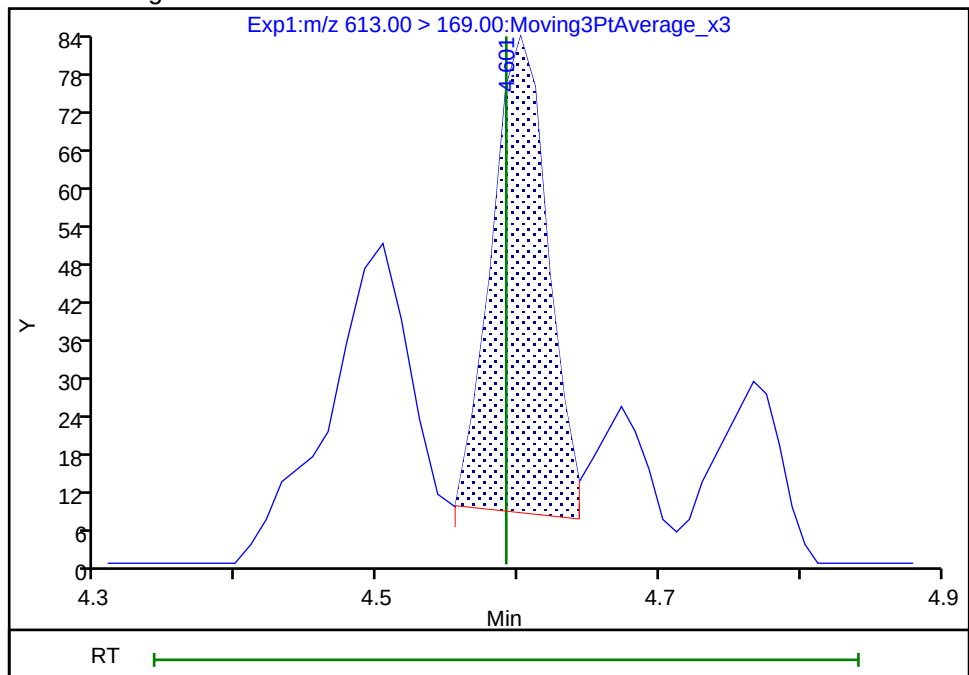
Signal: 2

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.60
Area: 210
Amount: 0.001338
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 18:03:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

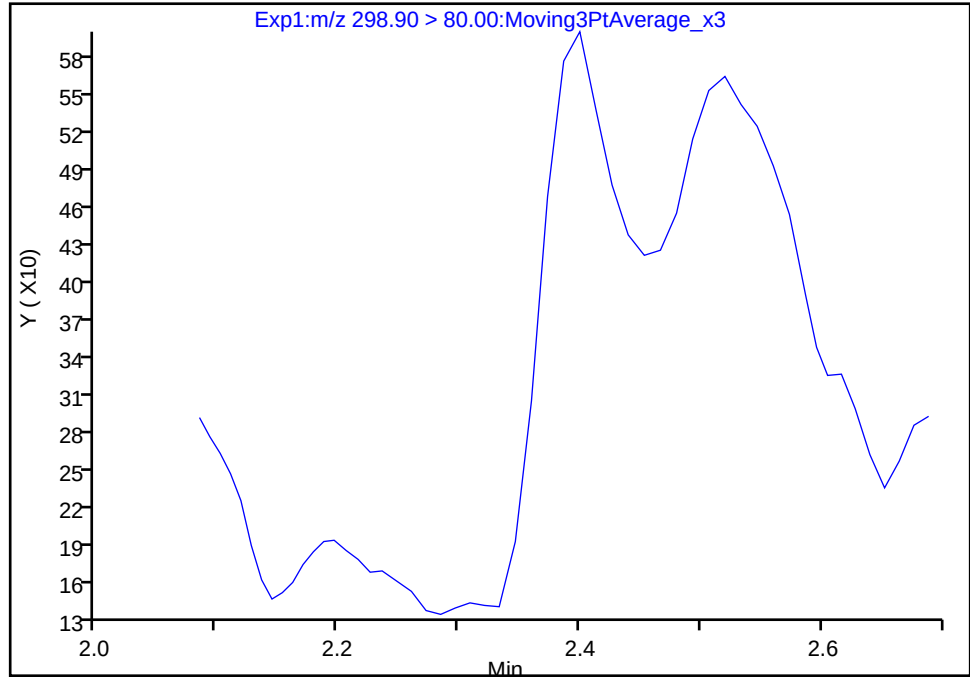
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d
Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. 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: 1

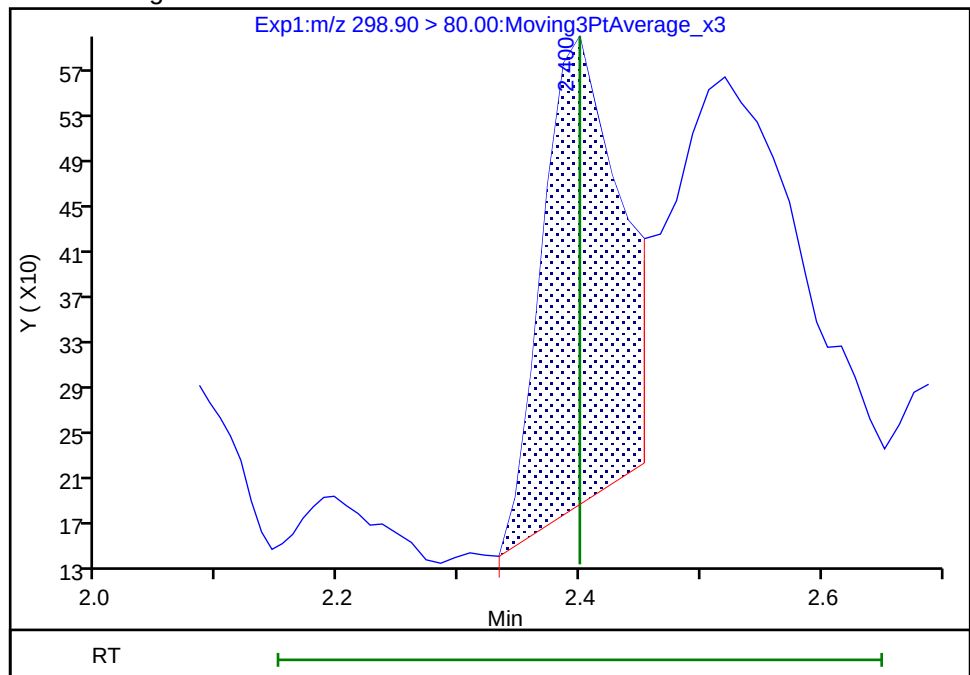
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1760
Amount: 0.000828
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 17:59:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

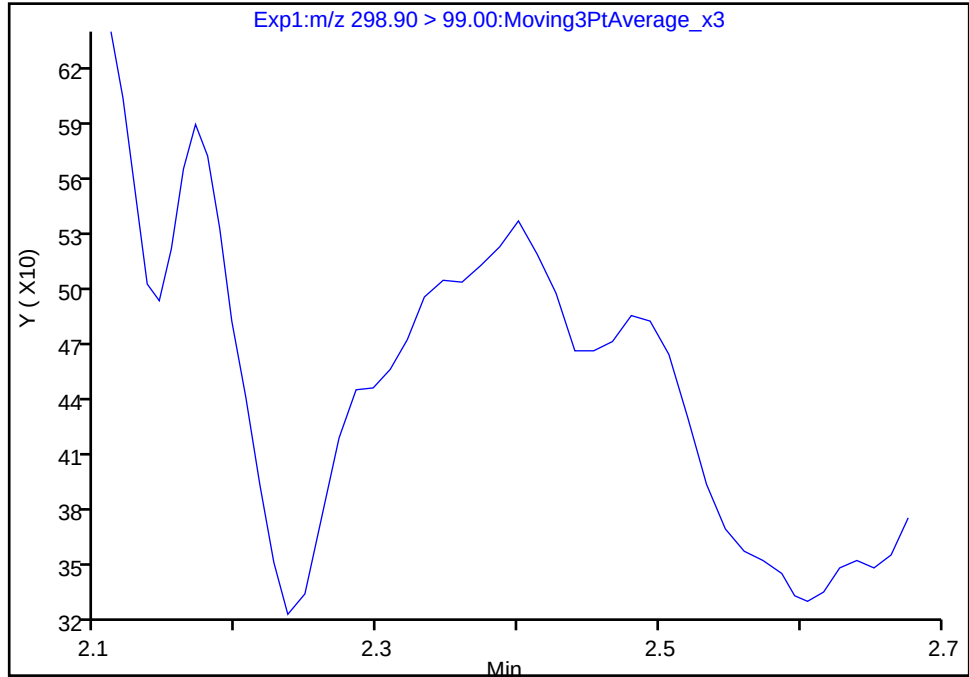
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d
Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. 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

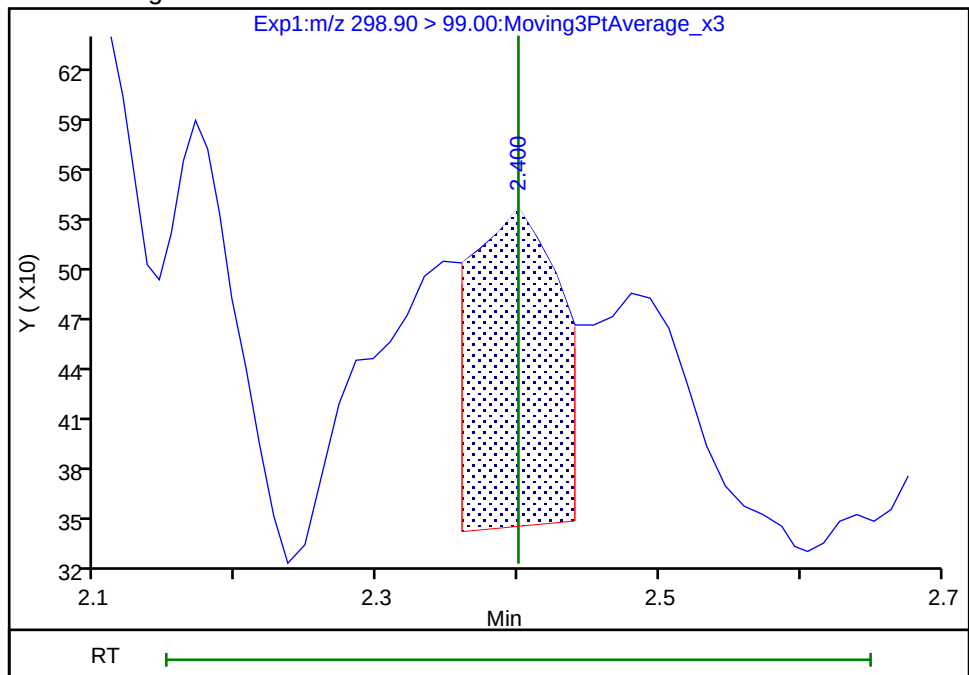
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 796
Amount: 0.000828
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 17:59:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

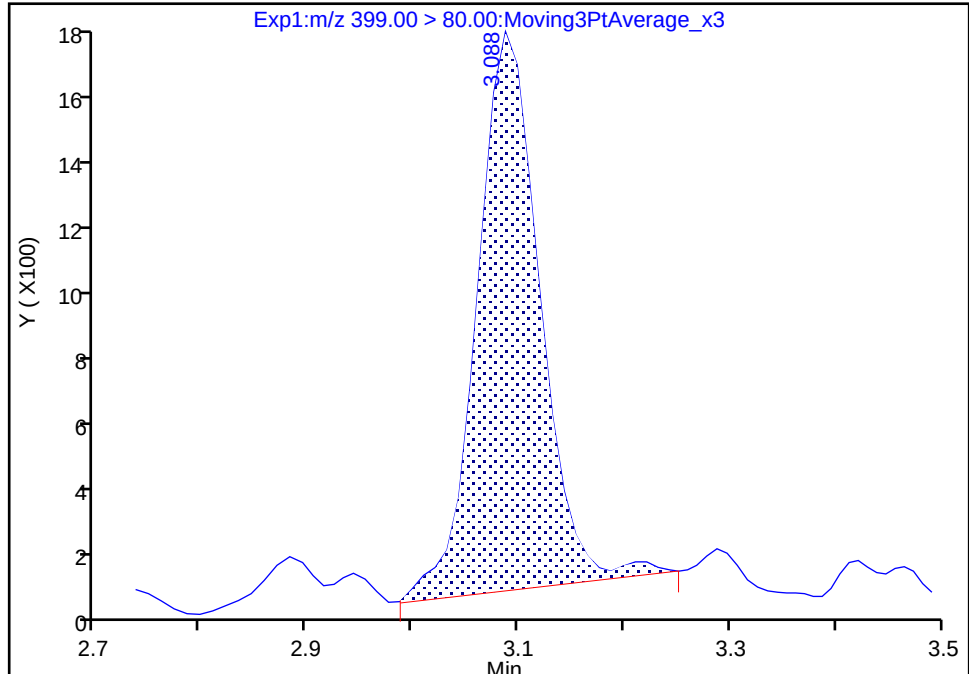
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	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: 1

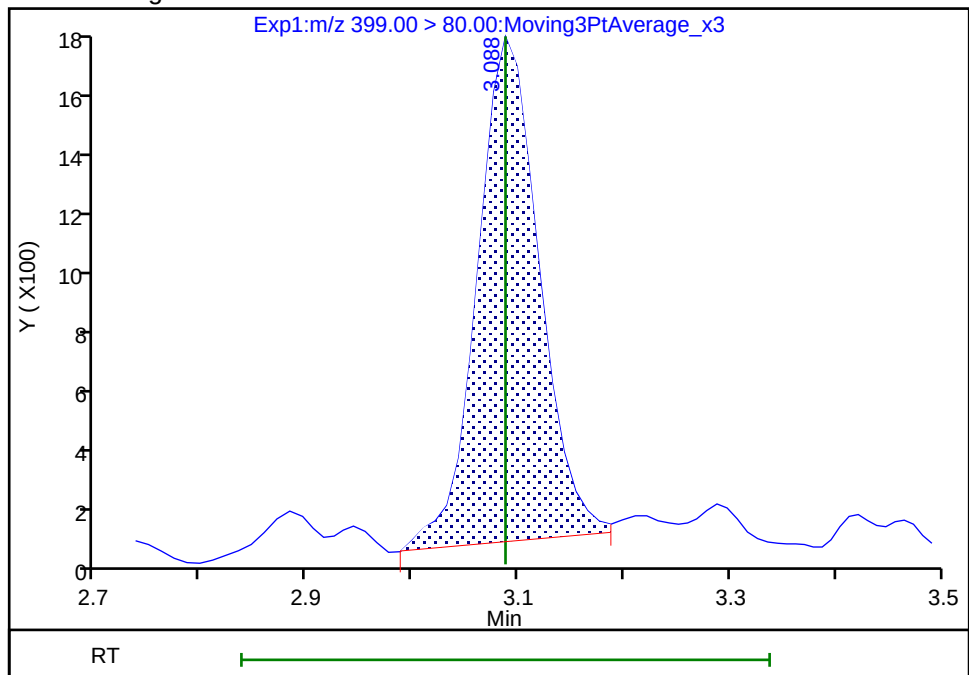
RT: 3.09
Area: 6678
Amount: 0.004077
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 6588
Amount: 0.004022
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 17:59:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

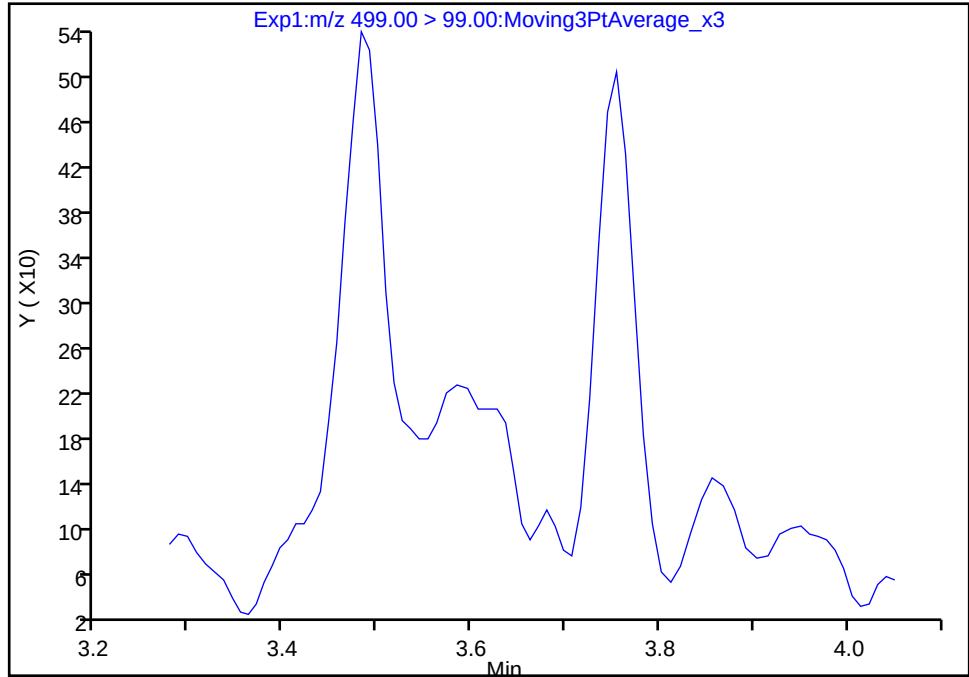
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	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

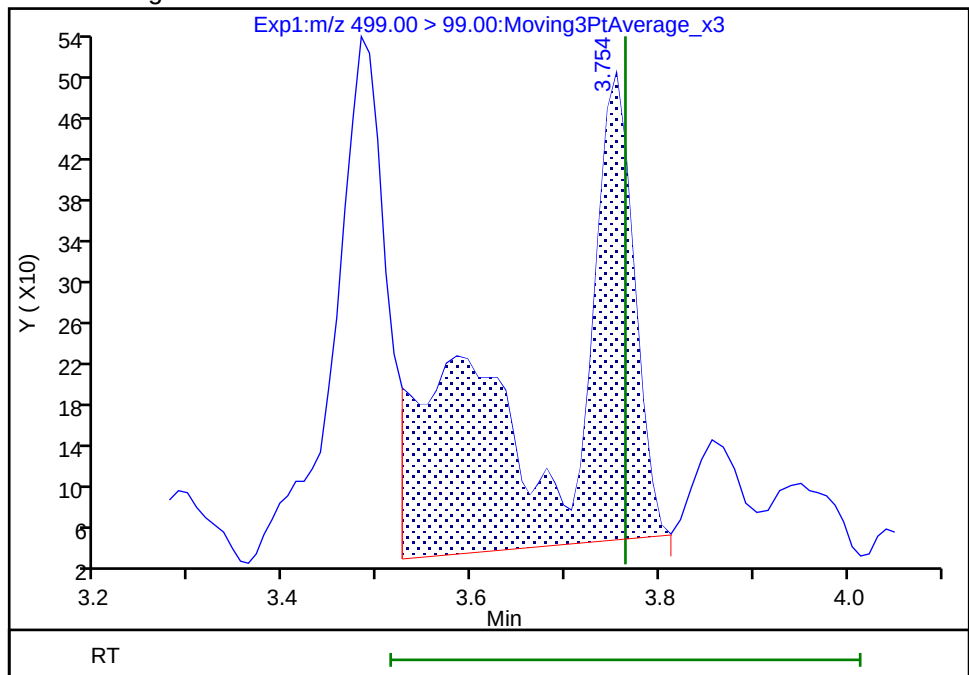
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 2683
Amount: 0.004039
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 18:01:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

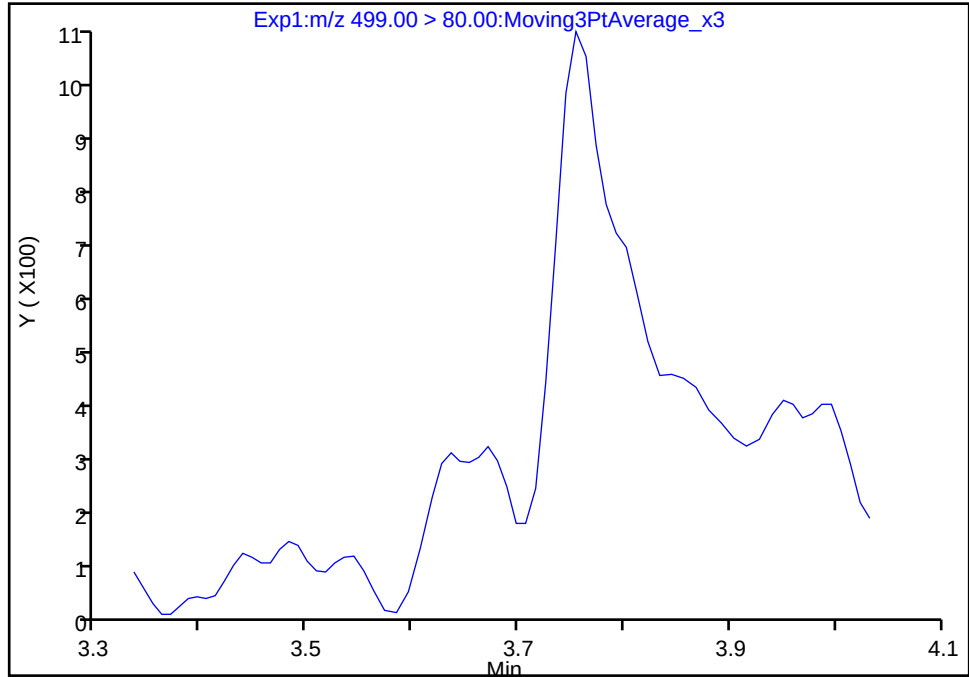
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d
Injection Date: 04-Jan-2023 16:48:07 Instrument ID: LC812
Lims ID: 460-271908-B-5-A Lab Sample ID: 200-271908-5
Client ID: FB-09-12212022P
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. 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

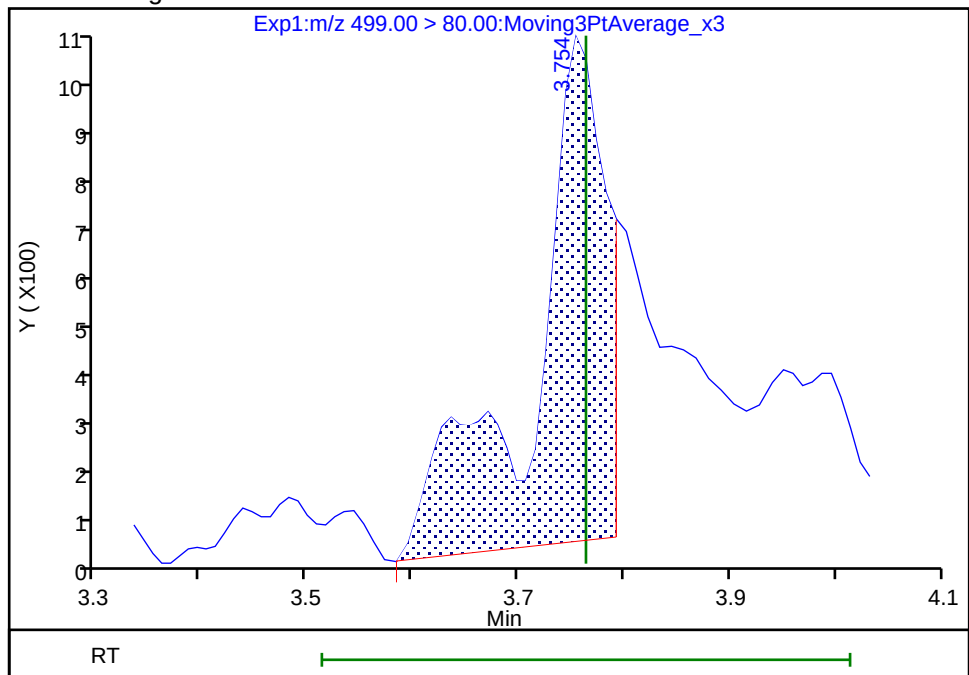
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 4711
Amount: 0.004039
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 18:01:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 220 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

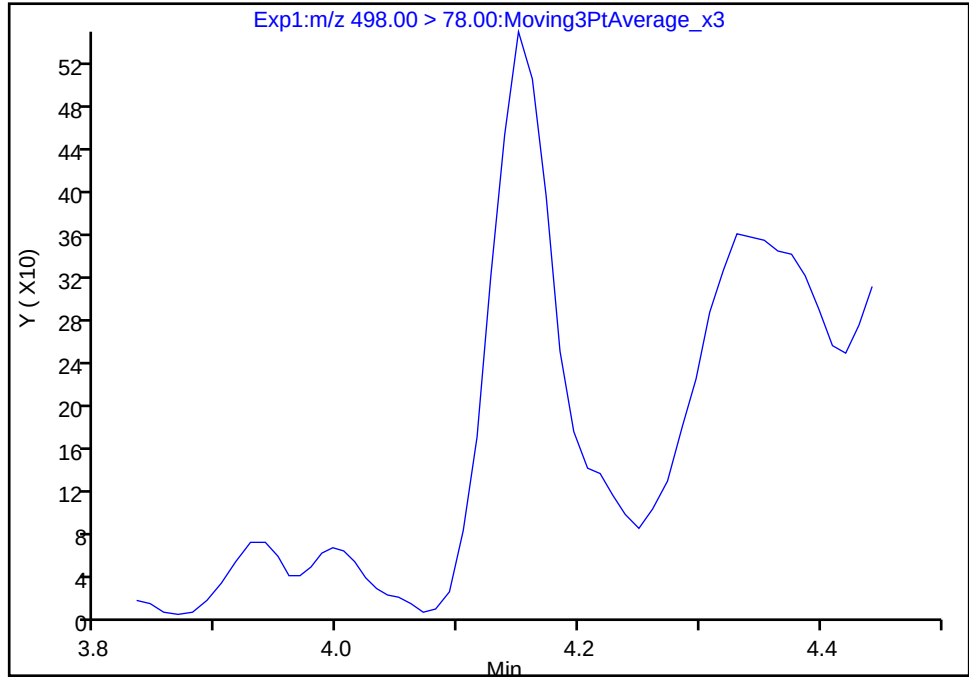
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

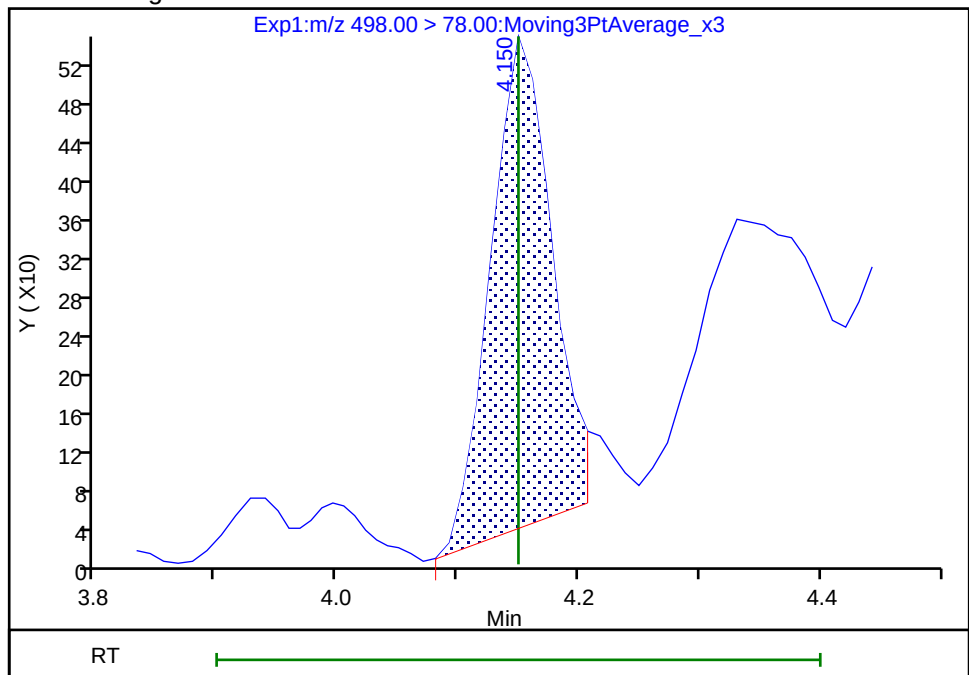
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.15
Area: 1768
Amount: 0.001769
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 18:02:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

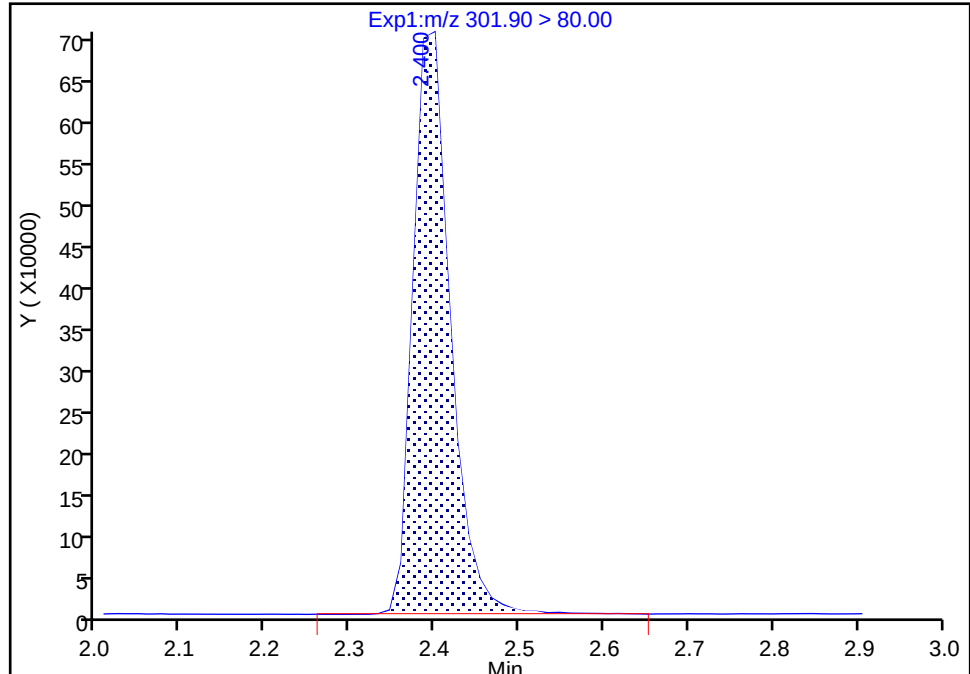
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d		
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5
Client ID:	FB-09-12212022P		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	16

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

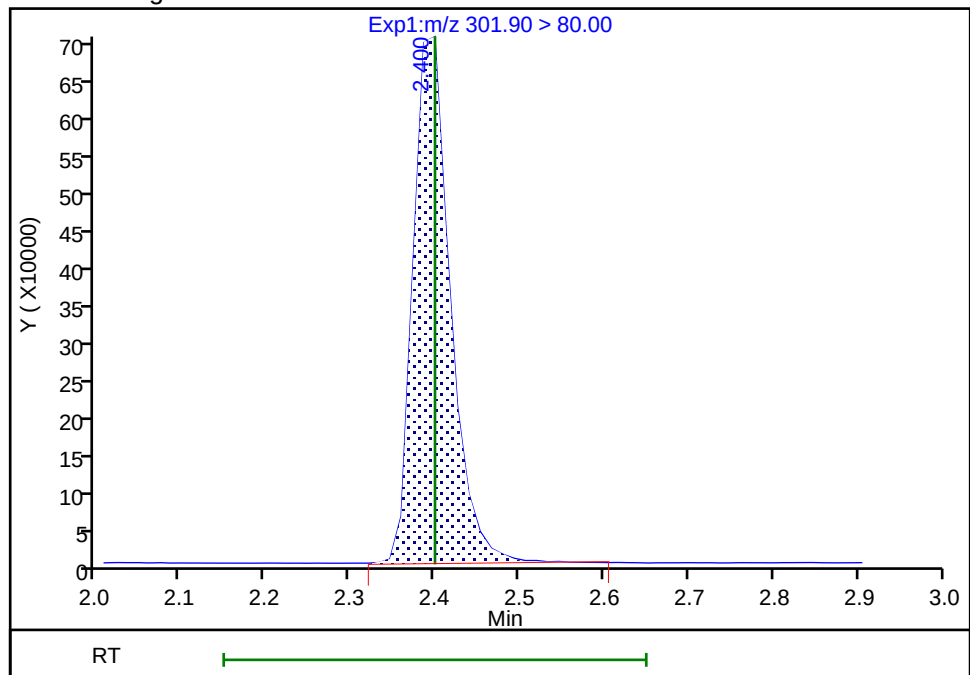
RT: 2.40
Area: 2167201
Amount: 1.013085
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2159697
Amount: 1.009577
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 17:58:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

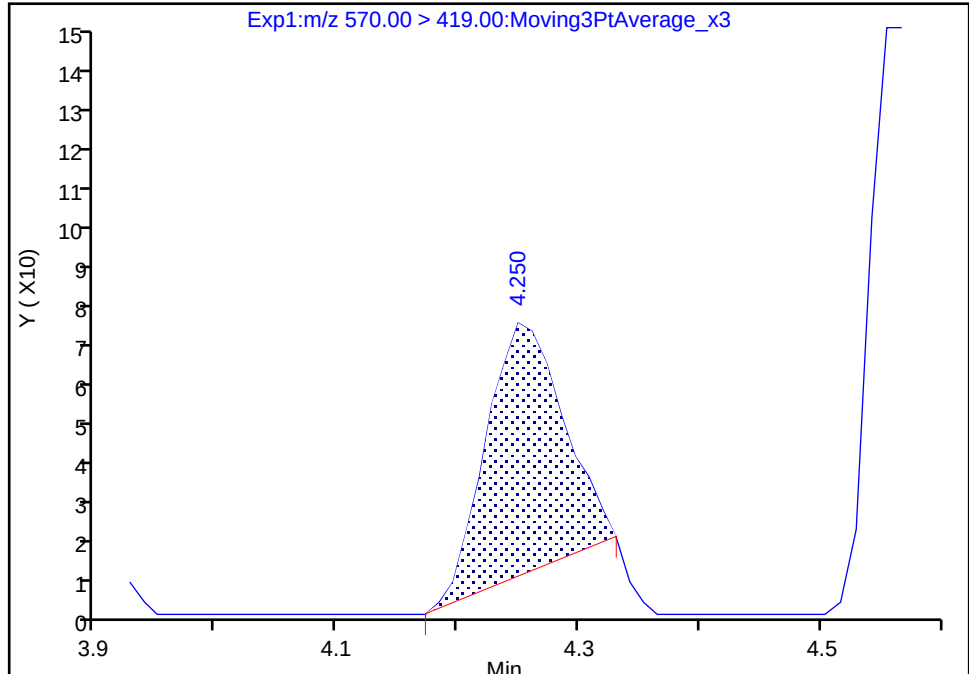
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	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

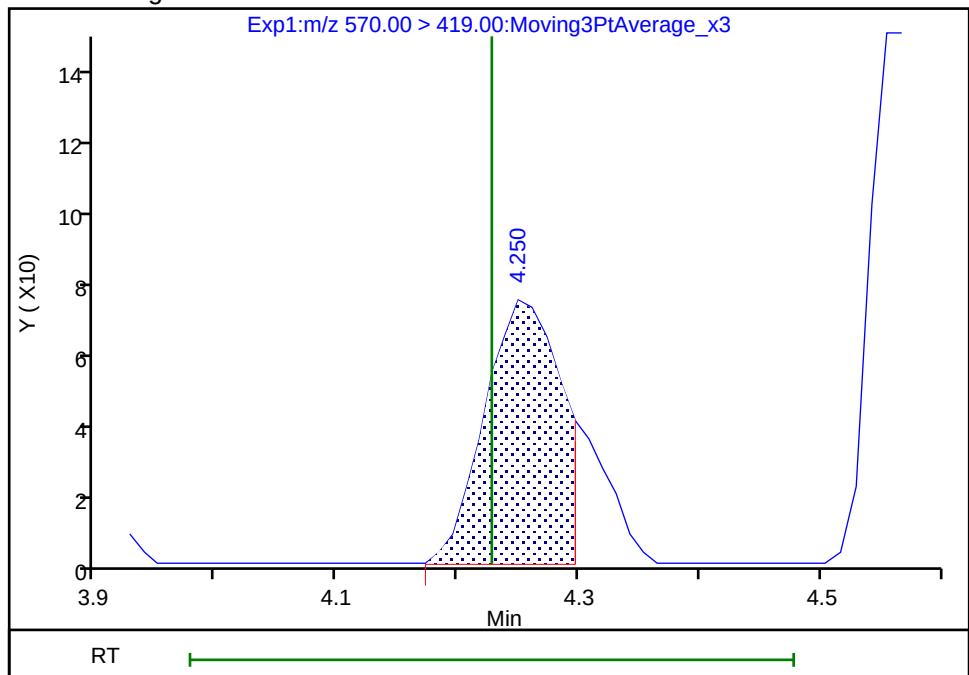
RT: 4.25
Area: 278
Amount: -0.010758
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 307
Amount: -0.010667
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 18:02:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

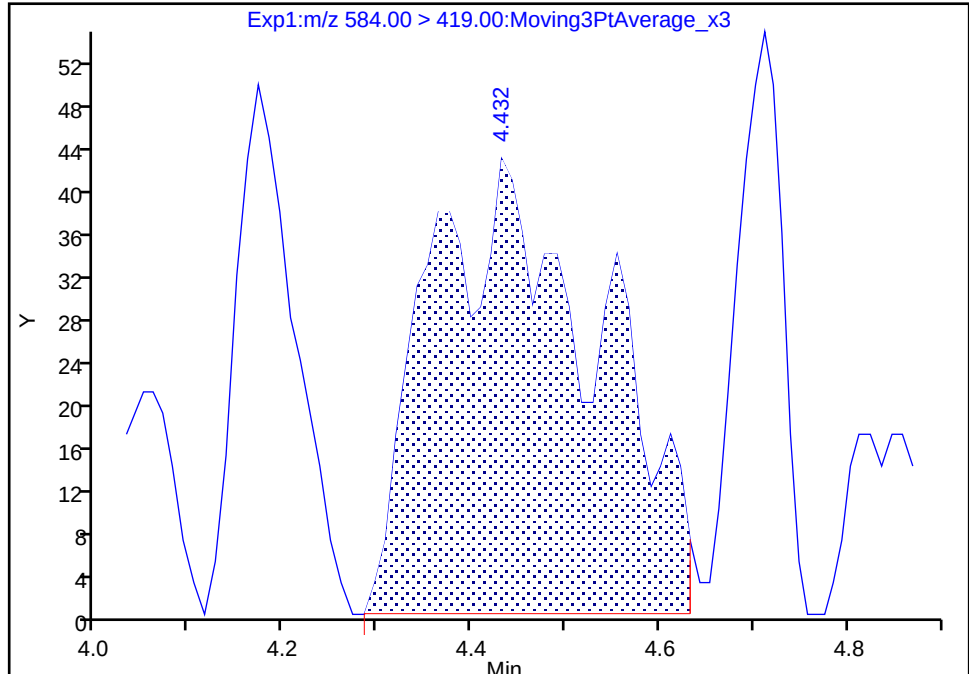
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d		
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5
Client ID:	FB-09-12212022P		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	16

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

Signal: 1

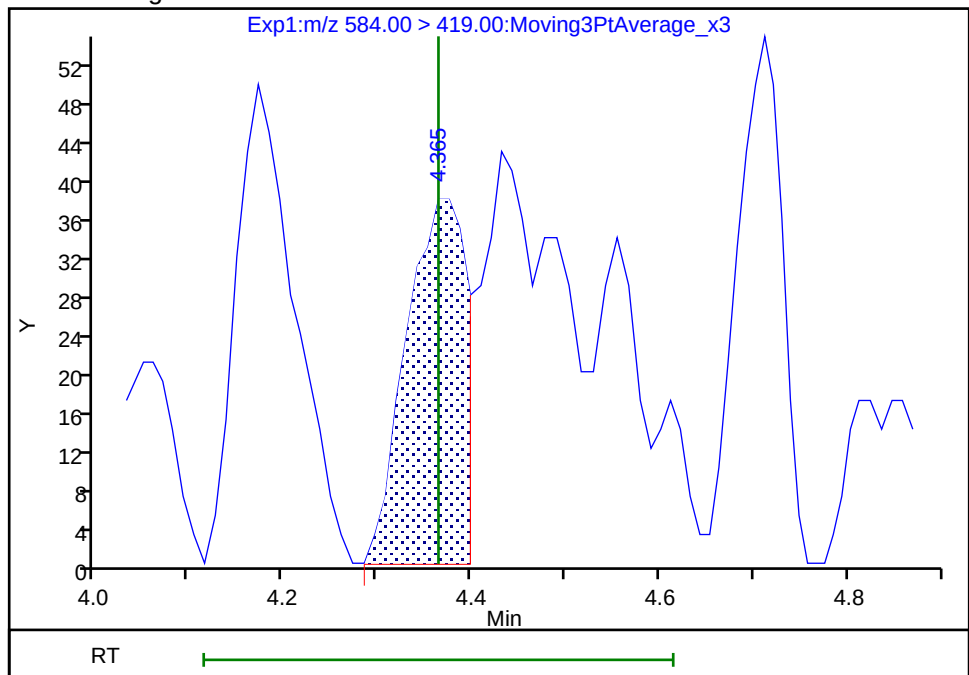
RT: 4.43
Area: 539
Amount: 0.001740
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 162
Amount: 0.000523
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 18:02:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

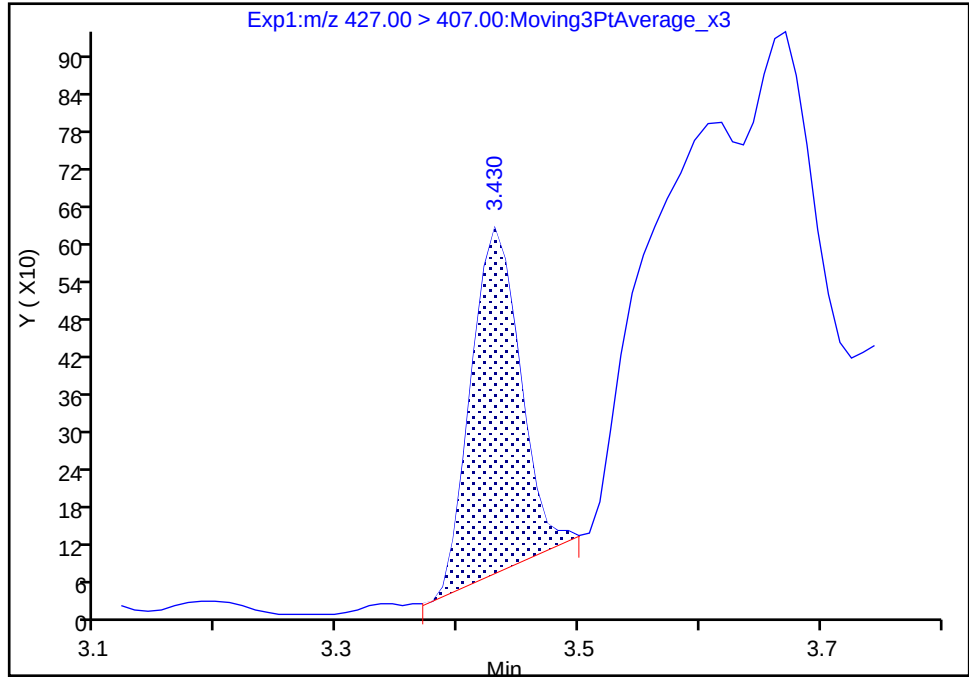
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A16.d				
Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

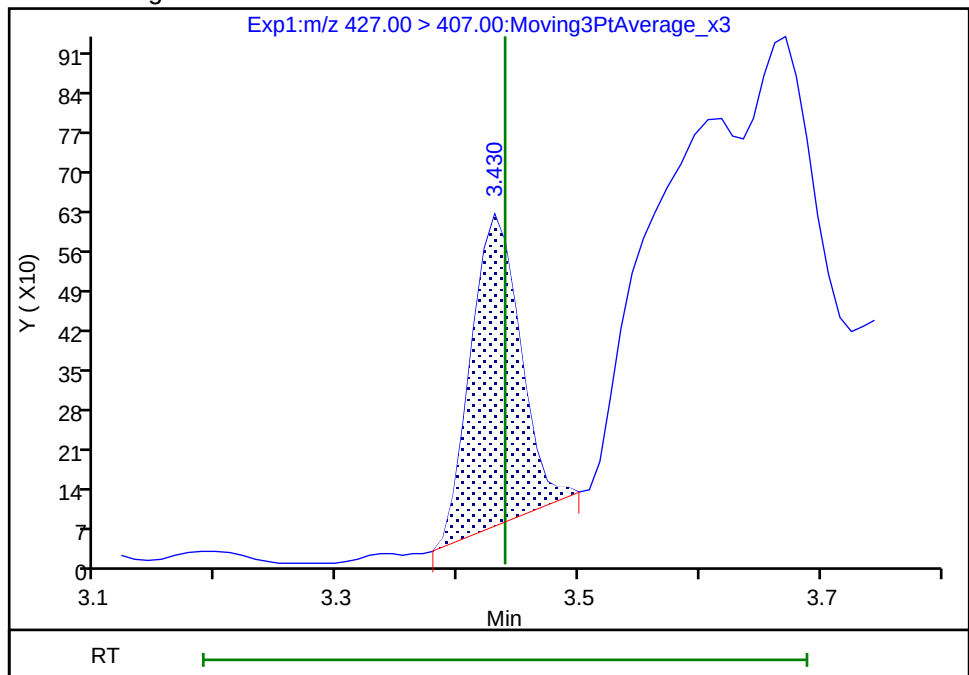
RT: 3.43
Area: 1562
Amount: -0.009167
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1562
Amount: -0.009167
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 18:00:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

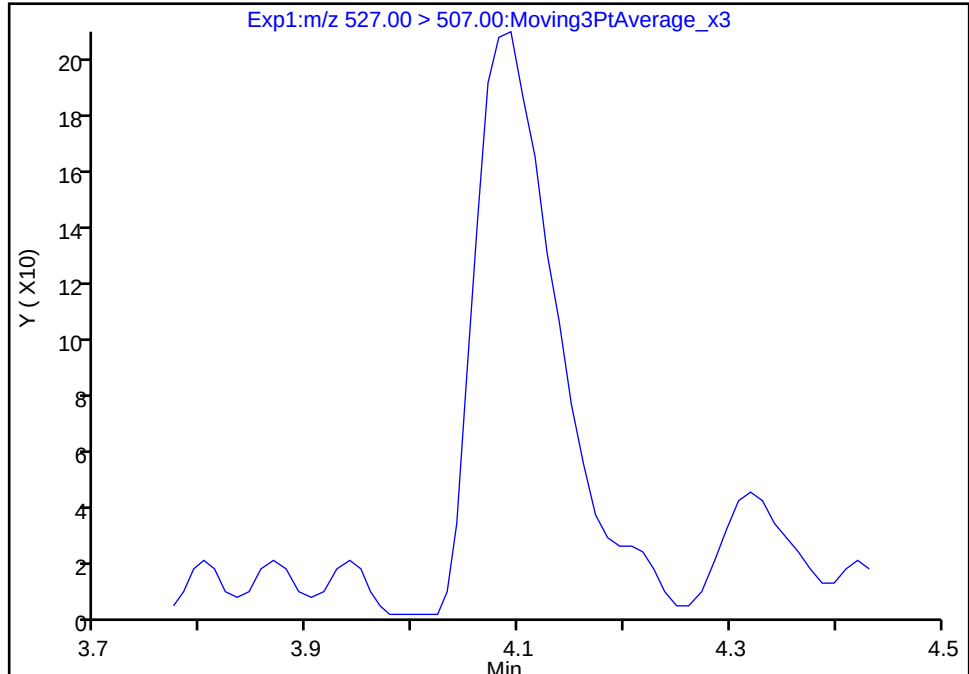
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Injection Date:	04-Jan-2023 16:48:07	Instrument ID:	LC812		
Lims ID:	460-271908-B-5-A	Lab Sample ID:	200-271908-5		
Client ID:	FB-09-12212022P				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

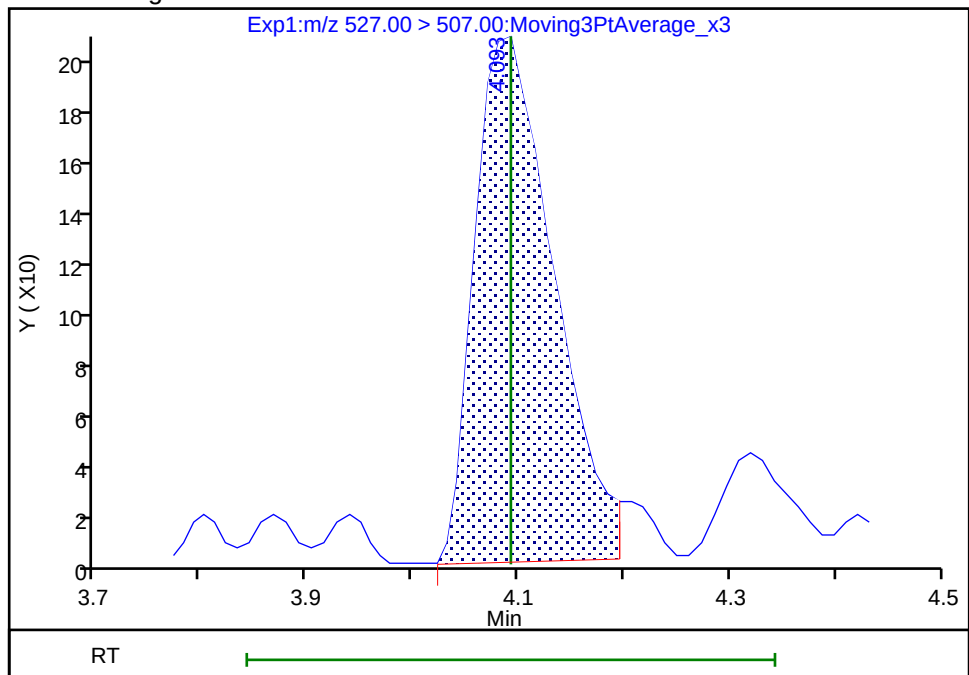
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.09
Area: 1062
Amount: 0.002068
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 18:02:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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

Lab Name: Eurofins Burlington Job No.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-185958/5	PA221118ICAL05.d
Level 2	IC 200-185958/6	PA221118ICAL06.d
Level 3	IC 200-185958/7	PA221118ICAL07.d
Level 4	ICISAV 200-185958/8	PA221118ICAL08.d
Level 5	IC 200-185958/9	PA221118ICAL09.d
Level 6	IC 200-185958/10	PA221118ICAL10.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)	1.1445 0.9264	1.1425	1.0785	0.9425	0.9528	AveI D		1.031 2				9.9		20.0			
Perfluoropentanoic acid (PFPeA)	1.1767 0.9853	1.2150	1.1316	1.0126	1.0178	AveI D		1.089 8				8.9		20.0			
Perfluorobutanesulfonic acid (PFBS)	1.2615 1.0797	1.2216	1.1599	1.0279	1.1141	AveI D		1.144 1				7.7		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.3006 2.8195	3.2444	3.2078	2.8919	3.0206	AveI D		3.080 8				6.5		20.0			
Perfluorohexanoic acid (PFHxA)	1.1712 0.9795	1.1611	1.1391	1.0360	1.0508	AveI D		1.089 6				7.2		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.4060 1.2589	1.3701	1.4318	1.2217	1.3242	AveI D		1.335 4				6.2		20.0			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.0956 0.9993	1.1493	1.1537	0.9619	0.9757	AveI D		1.055 9				8.3		20.0			
Perfluorohexanesulfonic acid (PFHxS)	1.2166 1.0489	1.1225	1.1993	1.0590	1.1257	AveI D		1.128 7				6.1		20.0			
Perfluoroheptanoic acid (PFHpA)	1.1962 0.9763	1.1664	1.1666	1.0118	1.0154	AveI D		1.088 8				9.0		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.8732 4.4581	6.0703	5.9049	5.5037	5.2323	AveI D		5.507 1				10.9		20.0			
Perfluoroheptanesulfonic acid (PFHpS)	1.4534 1.2848	1.5083	1.4953	1.3259	1.3126	AveI D		1.396 7				7.2		20.0			
6:2 FTS	2.6430 2.1137	2.2601	2.3824	2.0273	2.1346	L1ID	0.025 1	2.112 5							0.9990		0.9900
Perfluorooctanoic acid (PFOA)	1.1586 0.9630	1.0893	1.1217	1.0385	1.0432	AveI D		1.069 0				6.5		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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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)	1.3844 1.1060	1.3450	1.1741	1.1401	1.1472	AveI n		1.216 1				9.7		20.0			
Perfluorononanoic acid (PFNA)	1.0746 0.9714	1.0661	1.1036	0.9819	1.0265	AveI n		1.037 4				5.1		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	2.9573 2.5142	2.9305	2.9507	2.7009	2.6934	AveI n		2.791 2				6.5		20.0			
Perfluorononanesulfonic acid (PFNS)	0.9829 0.8558	0.9757	0.9391	0.8663	0.8876	AveI n		0.917 9				6.1		20.0			
Perfluorodecanoic acid (PFDA)	1.1661 0.9356	1.1171	1.2688	1.0261	0.9931	AveI n		1.084 5				11.3		20.0			
8:2 FTS	1.6292 1.5472	1.6701	1.7320	1.5441	1.5795	AveI n		1.617 0				4.6		20.0			
Perfluorooctanesulfonamide (FOSA)	1.0869 0.9680	1.1382	1.0618	0.9865	1.0270	AveI n		1.044 7				6.1		20.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.0455 0.8611	0.8925	0.9842	0.8638	0.8494	LIID	0.010 0	0.860 2							0.9990		0.9900
Perfluorodecanesulfonic acid (PFDS)	0.7474 0.6922	0.7456	0.7794	0.6770	0.7070	AveI n		0.724 8				5.4		20.0			
Perfluoroundecanoic acid (PFUnA)	1.0465 0.9002	1.0407	1.1264	0.9789	0.9541	AveI n		1.007 8				7.9		20.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.9658 0.8407	0.9508	0.9147	0.8447	0.8547	AveI n		0.895 3				6.2		20.0			
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	4.6158 3.6495	4.6481	4.4955	4.2280	4.1787	AveI n		4.302 6				8.7		20.0			
Perfluorododecanoic acid (PFDoA)	1.1560 0.9277	1.1325	1.1436	1.0327	0.9642	AveI n		1.059 5				9.3		20.0			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	1.0867 0.9589	0.9706	0.9716	0.9361	0.9064	AveI n		0.971 7				6.3		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.3227 0.2805	0.3244	0.3236	0.2924	0.2963	AveI n		0.306 7				6.3		20.0			
Perfluorotridecanoic acid (PFTriA)	1.0848 0.8766	1.0990	1.0994	0.9438	0.9757	AveI n		1.013 2				9.3		20.0			
Perfluorotetradecanoic acid (PFTeA)	0.1527 0.1272	0.1391	0.1459	0.1277	0.1289	AveI n		0.136 9				7.8		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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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)	1.1897 0.9218	1.0727	1.0421	0.8953	0.9216	L1ID	0.015 7	0.919 5							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.8440 0.7765	0.8293	0.9071	0.8076	0.7770	AveI n		0.823 6				6.0	20.0				
13C4 PFBA	1.1404 1.1799	1.0866	1.1024	1.0894	1.1315	Ave		1.121 7				3.2	50.0				
13C5 PFPeA	0.8620 0.8893	0.8105	0.8579	0.8500	0.8561	Ave		0.854 3				3.0	50.0				
13C3 PFBS	0.9374 0.9873	0.8930	0.9171	0.9137	0.9204	Ave		0.928 1				3.5	50.0				
M2-4:2 FTS	0.0877 0.0861	0.0797	0.0800	0.0778	0.0808	Ave		0.082 0				4.8	50.0				
13C2 PFHxA	0.8868 0.9110	0.8654	0.9101	0.8833	0.9139	Ave		0.895 1				2.2	50.0				
13C3 HFPO-DA	0.1502 0.1669	0.1484	0.1584	0.1602	0.1638	Ave		0.158 0				4.7	50.0				
18O2 PFHxS	0.6970 0.7163	0.6705	0.6515	0.6583	0.6633	Ave		0.676 1				3.7	50.0				
13C4 PFHpA	0.9332 0.9419	0.8781	0.8987	0.9124	0.9591	Ave		0.920 6				3.2	50.0				
M2-6:2 FTS	0.1194 0.1117	0.1128	0.1090	0.1129	0.1146	Ave		0.113 4				3.1	50.0				
13C4 PFOA	1.0534 1.0538	0.9967	1.0342	1.0066	1.0654	Ave		1.035 0				2.7	50.0				
13C4 PFOS	0.4599 0.4970	0.4445	0.4526	0.4349	0.4638	Ave		0.458 8				4.7	50.0				
13C5 PFNA	1.0139 1.0056	0.9936	0.9947	1.0127	1.0144	Ave		1.005 8				1.0	50.0				
13C2 PFDA	1.0047 1.0662	1.0261	0.9756	1.0248	1.0523	Ave		1.024 9				3.2	50.0				
M2-8:2 FTS	0.1424 0.1384	0.1349	0.1401	0.1347	0.1416	Ave		0.138 7				2.4	50.0				
13C8 FOSA	0.8552 0.9157	0.7991	0.8222	0.8078	0.8419	Ave		0.840 3				5.0	50.0				
d3-NMeFOSAA	0.2080 0.2288	0.2012	0.1948	0.2020	0.2172	Ave		0.208 7				6.0	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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	0.9739 0.9407	0.8915	0.9322	0.9386	0.9543	Ave		0.938 5				2.9		50.0			
d5-NETfOSAA	0.2016 0.2128	0.2027	0.2082	0.1978	0.2098	Ave		0.205 5				2.8		50.0			
13C2 PFDoA	0.9692 1.0059	0.9046	0.9388	0.9287	0.9901	Ave		0.956 2				4.1		50.0			
13C2 PFTeDA	0.8372 0.8524	0.8152	0.8139	0.7926	0.8509	Ave		0.827 0				2.9		50.0			
13C2 PFHxDA	1.0582 1.0482	1.0104	0.9816	0.9803	1.0561	Ave		1.022 5				3.6		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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-185958/5	PA221118ICAL05.d
Level 2	IC 200-185958/6	PA221118ICAL06.d
Level 3	IC 200-185958/7	PA221118ICAL07.d
Level 4	ICISAV 200-185958/8	PA221118ICAL08.d
Level 5	IC 200-185958/9	PA221118ICAL09.d
Level 6	IC 200-185958/10	PA221118ICAL10.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)		AveI D	117447 18287579	236091	1137760	1911392	5105461	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveI D	91274 14659532	187282	929016	1602160	4126130	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveI D	94070 15764131	183390	899900	1545417	4292437	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveI D	24335 3793564	45908	229433	391113	1079231	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveI D	93459 14928997	191103	992048	1703495	4547952	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveI D	82717 14151584	163879	837304	1404230	3901605	0.0469 9.38	0.0938	0.469	0.938	2.35
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveI D	14811 2790710	32429	174879	286947	756781	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveI D	69439 11438488	130263	680406	1180858	3217665	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveI D	100453 15384783	194803	1003322	1718424	4611900	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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	228953 34921387	483450	2408962	4197219	10824421	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic acid (PFHpS)		AveI D	57260 10171074	121399	616490	1021904	2744265	0.0476 9.52	0.0952	0.476	0.952	2.38
6:2 FTS		L1ID	26914 3743844	45963	235479	404018	1097897	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveI D	109826 16977289	206480	1110144	1946044	5263268	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveI D	53166 8534676	105528	471879	856526	2338057	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveI D	98046 16342622	201460	1050495	1851038	4930997	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanona ne-1-sulfonic acid (9Cl-PF3O		AveI D	114059 19485090	230911	1190983	2037918	5512960	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid (PFNS)		AveI D	39049 6831873	79193	390435	673297	1871298	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveI D	105421 16688874	217999	1184639	1957474	4948756	0.0500 10.0	0.100	0.500	1.00	2.50
8:2 FTS		AveI D	20003 3431863	41049	222425	370895	1014644	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveI D	83641 14828965	172977	835408	1483356	4094524	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonami doacetic acid (NMeFOSAA)		L1ID	19570 3297027	34156	183478	324897	873622	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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	29817 5548668	60768	325384	528363	1496790	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveI D	91713 14168517	176444	1004863	1710346	4311823	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamid oacetic acid (NEtFOSAA)		AveI D	17526 2992748	36650	182262	311108	848987	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafuoro-3-oxaundec ane-1-sulfonic acid (11Cl-PF		AveI D	179935 28587798	370183	1834007	3224328	8644779	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveI D	100823 15612916	194829	1027352	1785384	4520955	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)		AveI D	13425 2140218	24005	125547	226266	585886	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveI D	12927 2258006	26552	135657	229113	629893	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveI D	94610 14753486	189059	987678	1631703	4574880	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveI D	11500 1813608	21567	113607	188468	519386	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L1ID	113285 16164958	206119	978907	1633724	4609177	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveI D	80369 13617092	159361	852104	1473641	3885994	0.0500 10.0	0.100	0.500	1.00	2.50
13C4 PFBA	13PF OA	Ave	2565506 2467565	2583086	2637410	2534911	2679202	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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	1939262 1859782	1926794	2052396	1977830	2026955	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	1961265 1920108	1974243	2040575	1977208	2026741	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	184320 168186	176875	178810	169056	178646	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	1995025 1905245	2057289	2177304	2055340	2164012	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PF OA	Ave	337960 349067	352715	378942	372889	387831	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	1483321 1417084	1507942	1474490	1449028	1485775	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	2099356 1969787	2087570	2150118	2123066	2271049	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	255115 221871	254748	247623	249636	257709	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	2369880 2203793	2369406	2474245	2342274	2522753	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	989045 993714	1010315	1035061	967441	1049764	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	2280957 2102974	2362013	2379680	2356501	2401890	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	2260154 2229691	2439344	2334094	2384612	2491665	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.: 460-271908-1 Analy Batch No.: 185958

SDG No.: _____

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

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	306939 277266	307241	321045	300249	321188	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PF OA	Ave	1923900 1914897	1899612	1967036	1879604	1993351	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PF OA	Ave	467975 478582	478399	466044	470154	514239	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PF OA	Ave	2191050 1967361	2119319	2230172	2183949	2259671	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PF OA	Ave	453643 444955	481823	498173	460360	496655	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PF OA	Ave	2180352 2103698	2150435	2245926	2161023	2344331	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PF OA	Ave	1883348 1782548	1938056	1947280	1844360	2014799	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PF OA	Ave	2380608 2191999	2401907	2348434	2280992	2500657	1.25 1.25	1.25	1.25	1.25	1.25

Curve Type Legend

Ave = Average ISTD
AveID = Average isotope dilution
L1ID = Linear 1/conc IsoDil

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Nov-2022 14:29:54 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:20 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 14:49:08

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	2.076	2.076	0.0	0.602	2565506	1.27		102	10150	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	117447	0.0555		111	11.2	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	1939262	1.26		101	4262	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	91274	0.0540		108	2.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1961265	1.17		101	318346	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	94070	0.0487	Target=2.14	110	139	M
298.90 > 99.00	2.400	2.400	0.0	1.000	40889		2.30(1.07-3.21)	110	29.8	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.005	24335	0.0500		107	375	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	184320	1.25		107	185	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	1995025	1.24		99.1	4548	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.004	93459	0.0537	Target=13.44	107	17.7	M
313.00 > 119.00	2.725	2.725	0.0	1.000	7632		12.25(6.72-20.15)	107	13.3	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	82717	0.0494	Target=2.98	105	219	
349.00 > 99.00	2.737	2.737	0.0	0.887	28613		2.89(1.49-4.47)	105	68.8	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	337960	1.19		95.1	3479	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	14811	0.0519		104	87.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1483321	1.22		103	2964	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.004	69439	0.0490	Target=3.57	108	101	
399.00 > 99.00	3.088	3.088	0.0	1.000	19455		3.57(1.78-5.35)	108	25.2	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2099356	1.27		101	5220	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	100453	0.0549	Target=3.93	110	21.8	M
363.00 > 169.00	3.099	3.099	0.0	1.000	25626		3.92(1.96-5.89)	110	58.2	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	228953	0.0502	Target=3.08	107	363	
377.00 > 85.00	3.132	3.132	0.0	0.832	75160		3.05(1.54-4.62)	107	131	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	255115	1.25		105	800	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	26914	0.0474		100	78.5	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	57260	0.0495	Target=5.16	104	228	M
449.00 > 99.00	3.439	3.439	0.0	0.914	10494		5.46(2.58-7.74)	104	48.9	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2369880	1.27		102	7932	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2249687	1.25			7146	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	109826	0.0542	Target=2.82	108	8.5	
413.00 > 169.00	3.448	3.448	0.0	1.000	38701		2.84(1.41-4.23)	108	61.5	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	989045	1.20		100	2554	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	53166	0.0528	Target=5.01	114	12.5	M
499.00 > 99.00	3.764	3.764	0.0	1.000	9421		5.64(2.50-7.51)	114	10.5	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2280957	1.26		101	2314	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	98046	0.0518	Target=8.49	104	21.5	M
463.00 > 169.00	3.783	3.783	0.0	1.000	12273		7.99(4.25-12.74)	104	132	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	114059	0.0494		106	734	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	39049	0.0514	Target=2.60	107	385	
549.00 > 99.00	4.061	4.050	0.011	1.079	14345		2.72(1.30-3.90)	107	108	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2260154	1.23		98.0	9579	

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	4.081	4.081	0.0	1.000	105421	0.0538	Target=10.03	108	53.0	M
513.00 > 169.00	4.081	4.081	0.0	1.000	10453		10.09(5.02-15.05)	108	18.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	306939	1.23		103	1357	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	20003	0.0483		101	186	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	83641	0.0520		104	226	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1923900	1.27		102	2597	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	467975	1.25		99.7	1170	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.228	0.0	1.000	19570	0.0491		98.3	48.2	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	29817	0.0497	Target=2.58	103	240	M
599.00 > 99.00	4.331	4.331	0.0	1.151	11494		2.59(1.29-3.86)	103	114	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	91713	0.0519	Target=10.10	104	46.8	
563.00 > 169.00	4.365	4.353	0.012	1.003	8638		10.62(5.05-15.15)	104	80.5	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2191050	1.30		104	5521	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.000	17526	0.0539		108	235	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	453643	1.23		98.1	938	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	179935	0.0505		107	957	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	100823	0.0546	Target=7.41	109	7.8	
613.00 > 169.00	4.591	4.591	0.0	1.000	13273		7.60(3.70-11.11)	109	184	
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2180352	1.27		101	3632	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	13425	0.0539		112	191	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	12927	0.0509	Target=0.51	105	191	
699.00 > 99.00	4.776	4.776	0.0	1.269	25803		0.50(0.25-0.76)	105	442	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.048	94610	0.0535	Target=5.40	107	8.2	M
663.00 > 169.00	4.813	4.804	0.009	1.048	16297		5.81(2.70-8.10)	107	99.4	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	11500	0.0558	Target=0.90	112	101	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	12127		0.95(0.45-1.35)	112	152	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.454	1883348	1.27		101	2254	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.367	5.367	0.0	1.557	2380608	1.29		103	5199	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.378	5.367	0.011	1.002	113285	0.0476	Target=5.85	95.2	11.0	
813.00 > 169.00	5.367	5.367	0.0	1.000	19229		5.89(2.93-8.78)	95.2	167	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.722	0.0	1.066	80369	0.0512	Target=6.30	102	9.4	
913.00 > 169.00	5.722	5.722	0.0	1.066	12582		6.39(3.15-9.46)	102	148	

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\20221118-53396.b\PA221118ICAL05.d

Injection Date: 18-Nov-2022 14:29:54

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

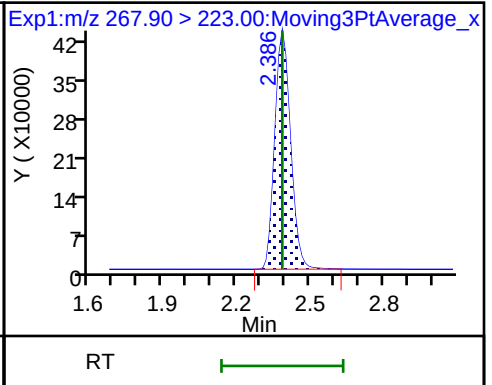
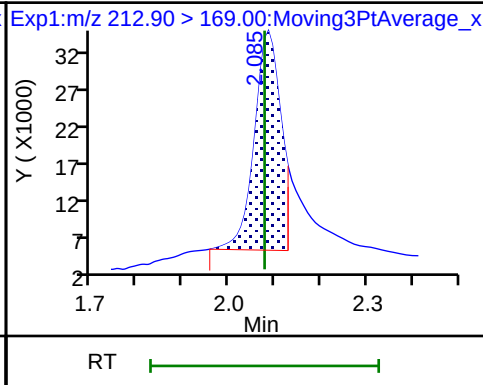
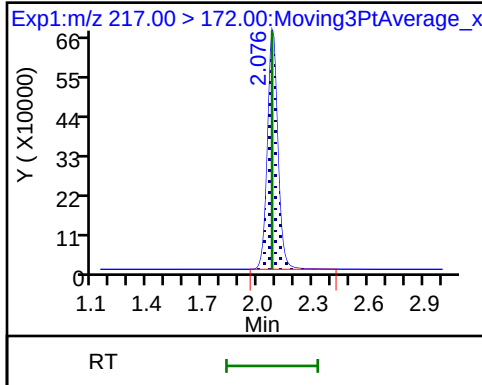
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

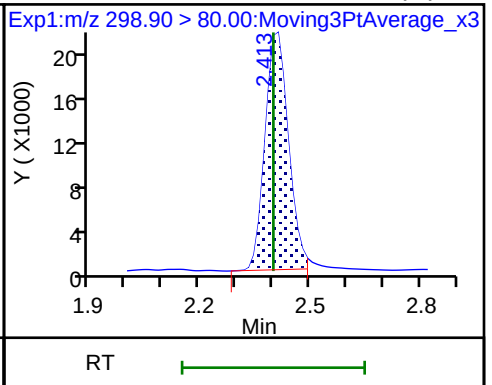
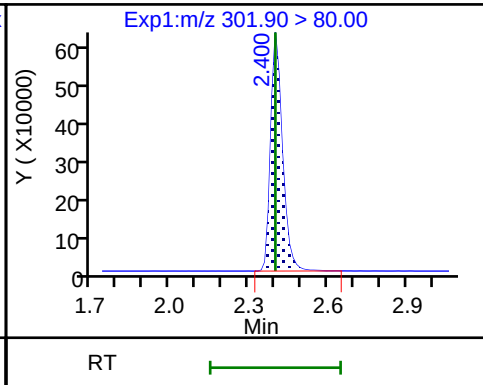
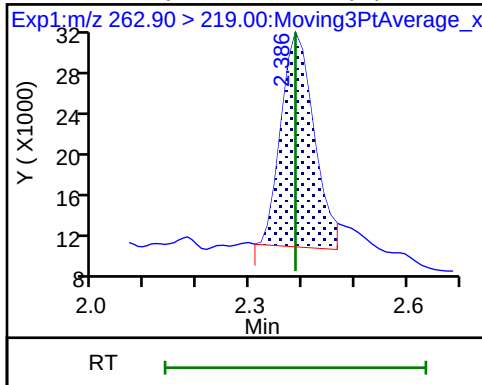
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

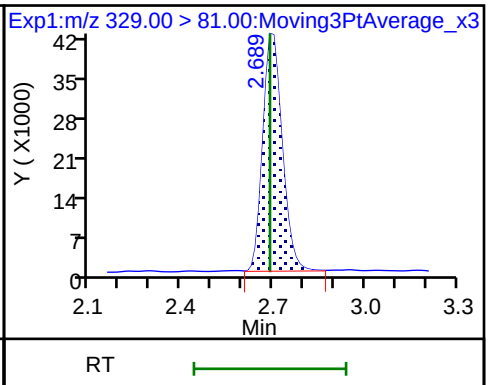
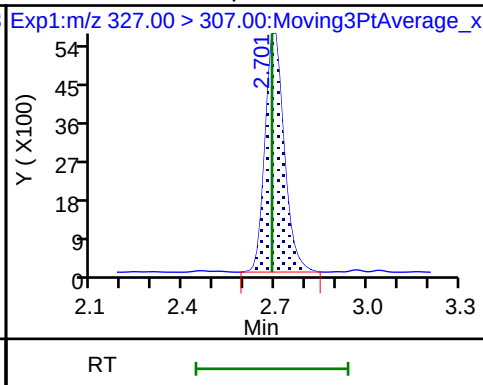
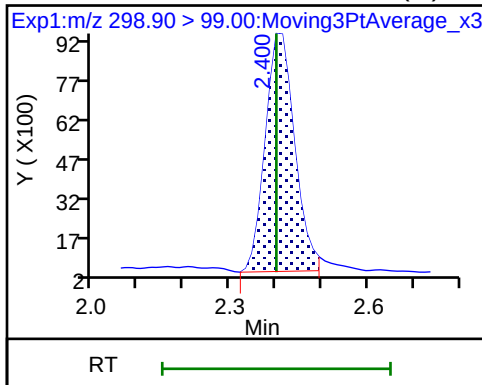
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

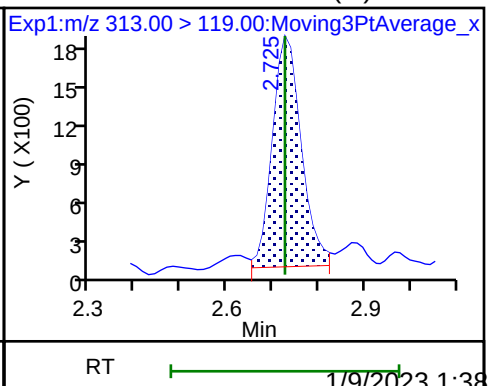
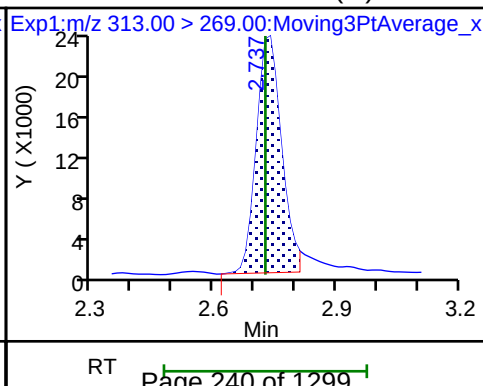
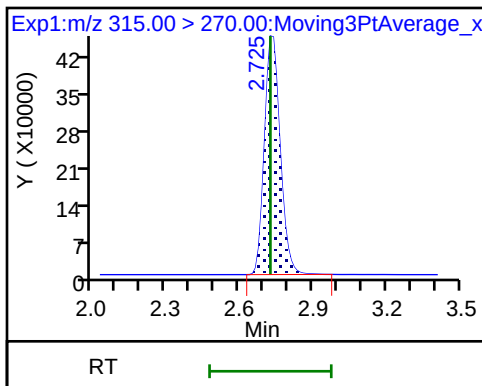
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

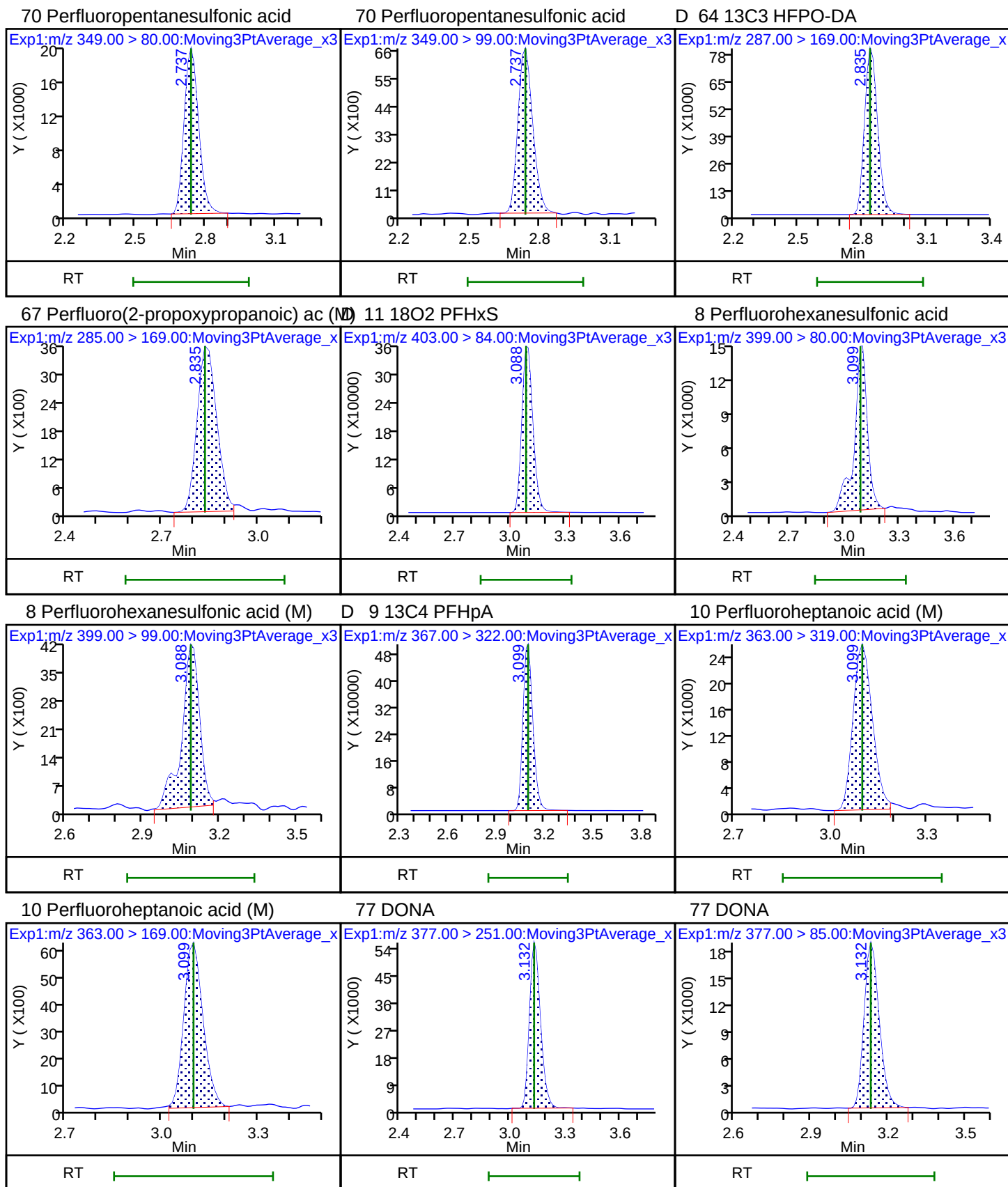


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

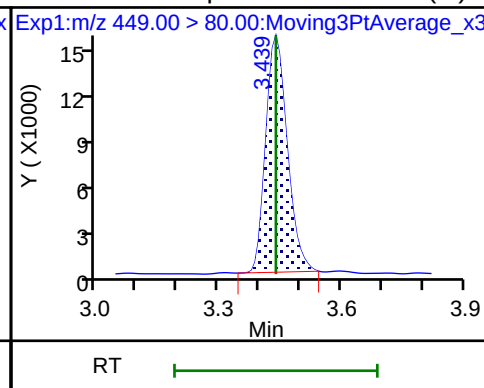
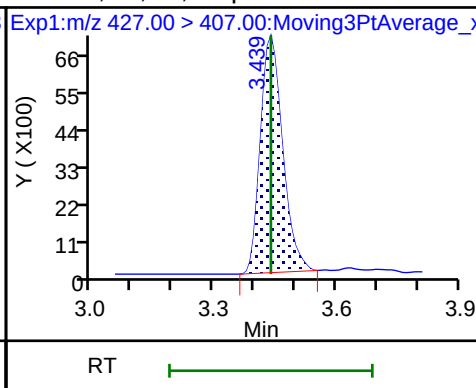
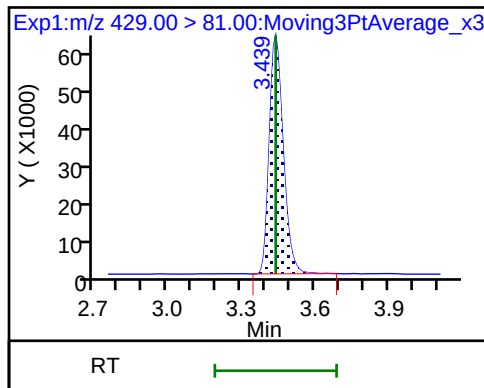




D 12 M2-6:2 FTS

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

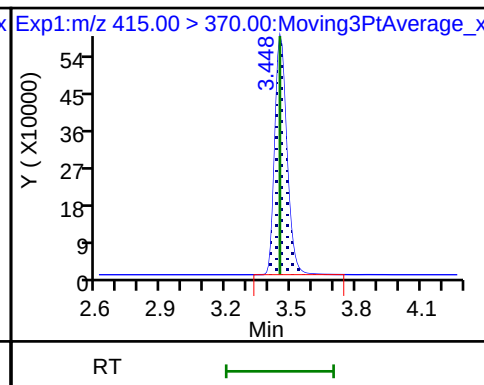
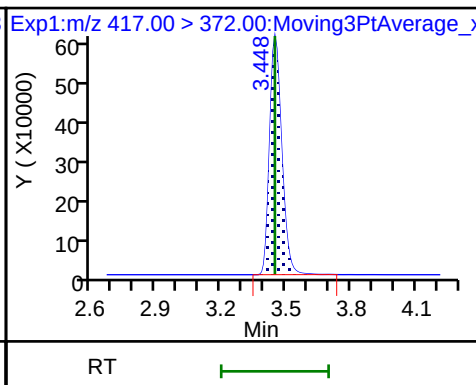
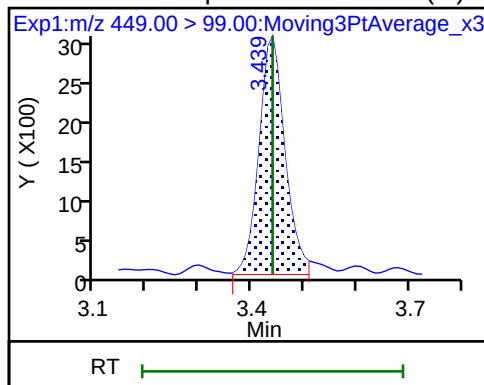
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

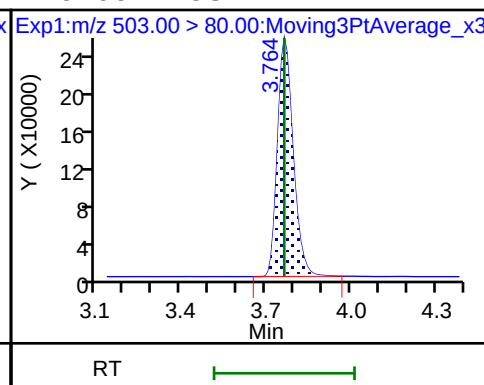
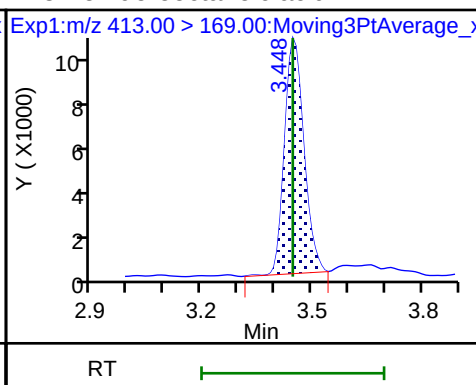
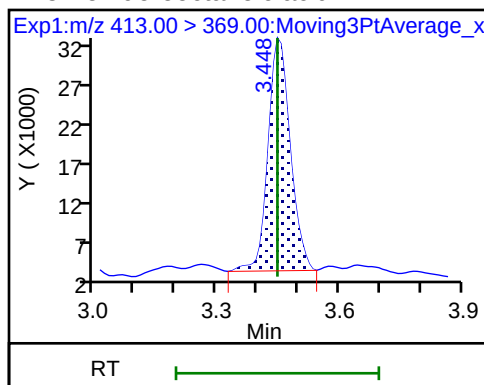
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

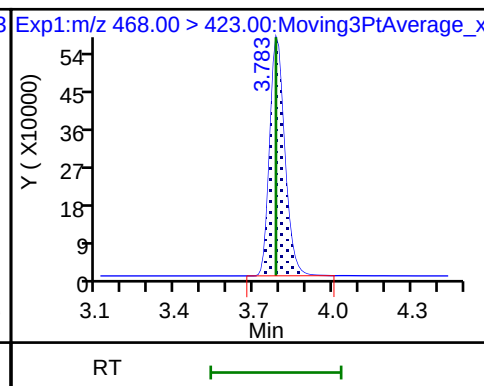
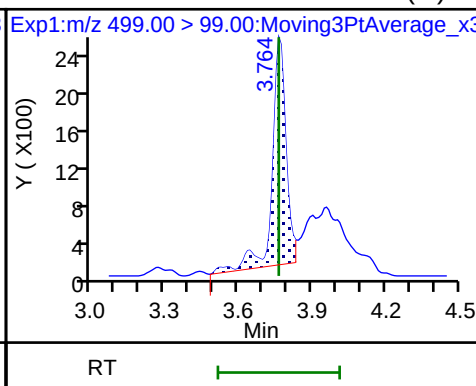
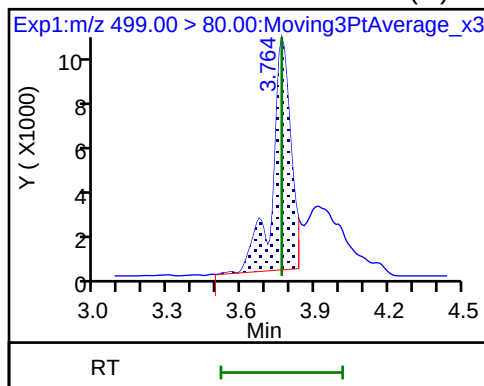
D 18 13C4 PFOS

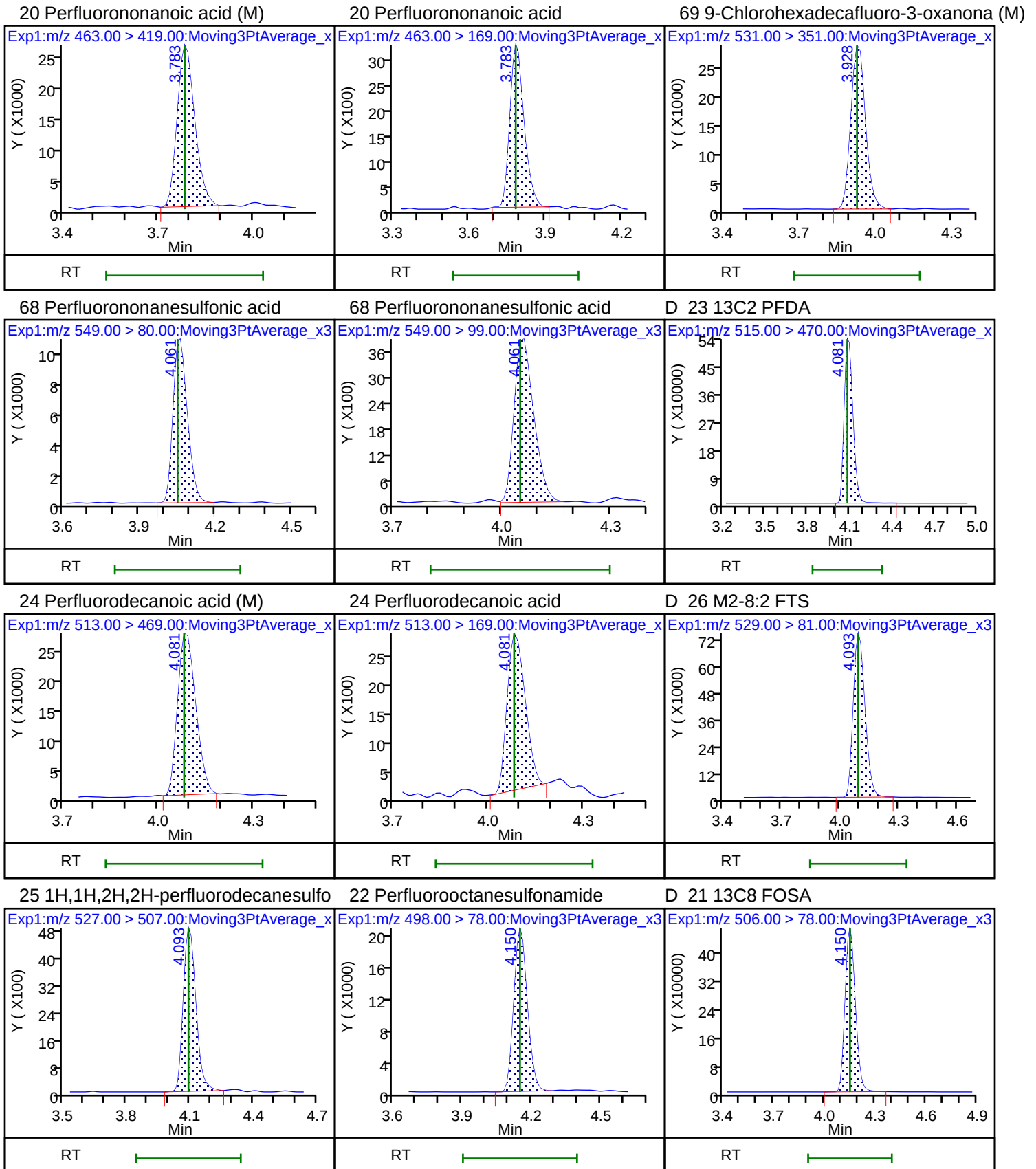


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

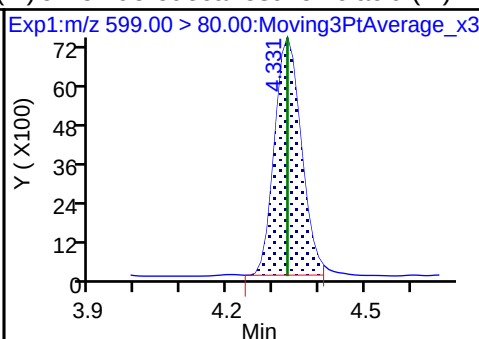
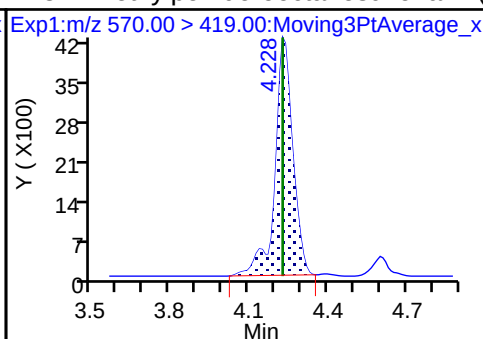
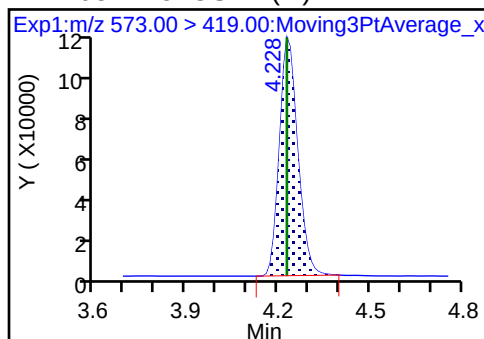




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

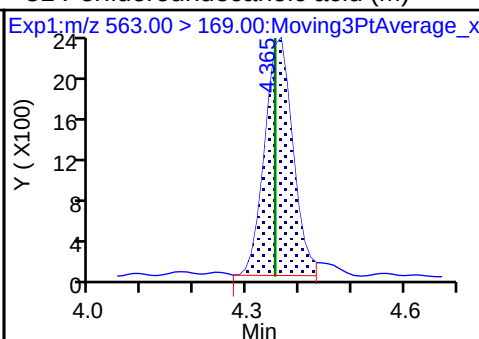
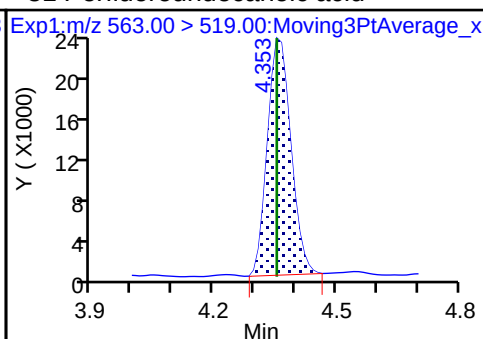
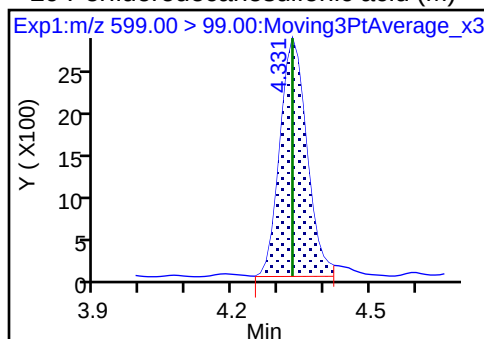
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

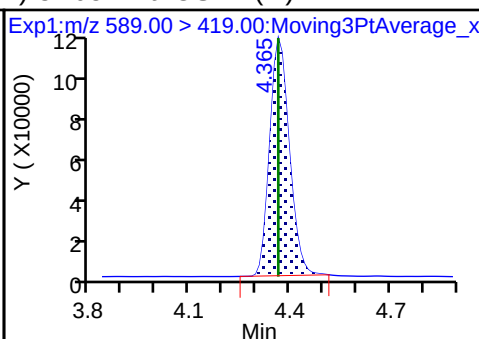
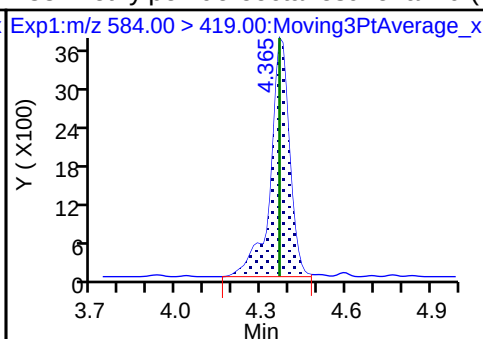
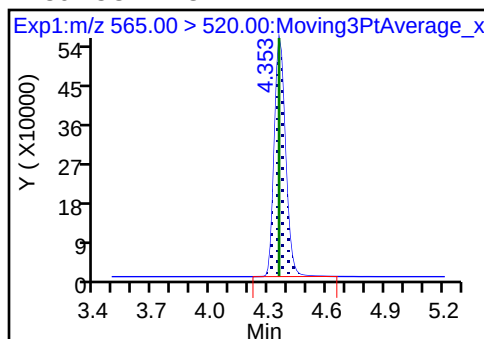
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M)

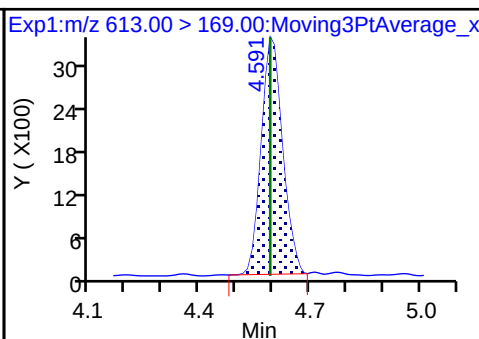
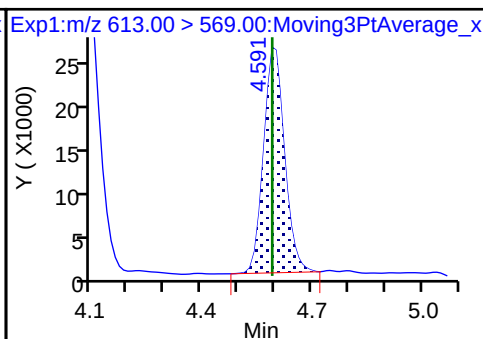
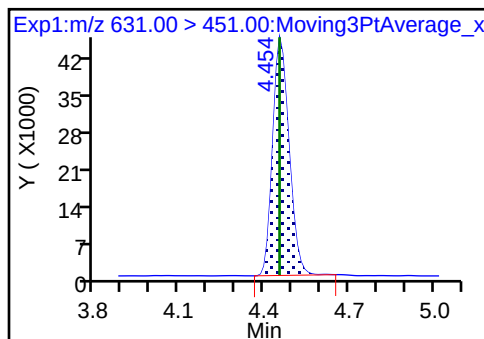
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

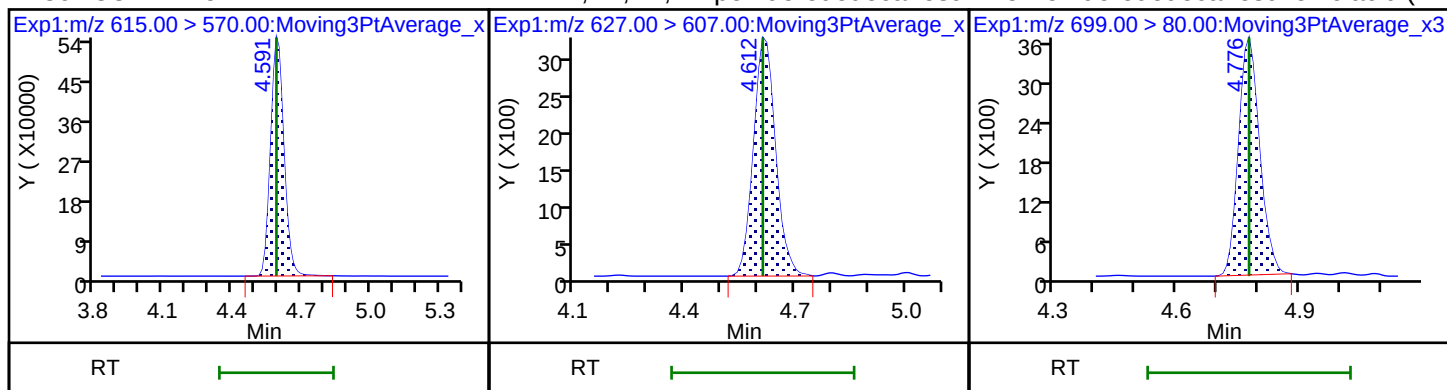
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

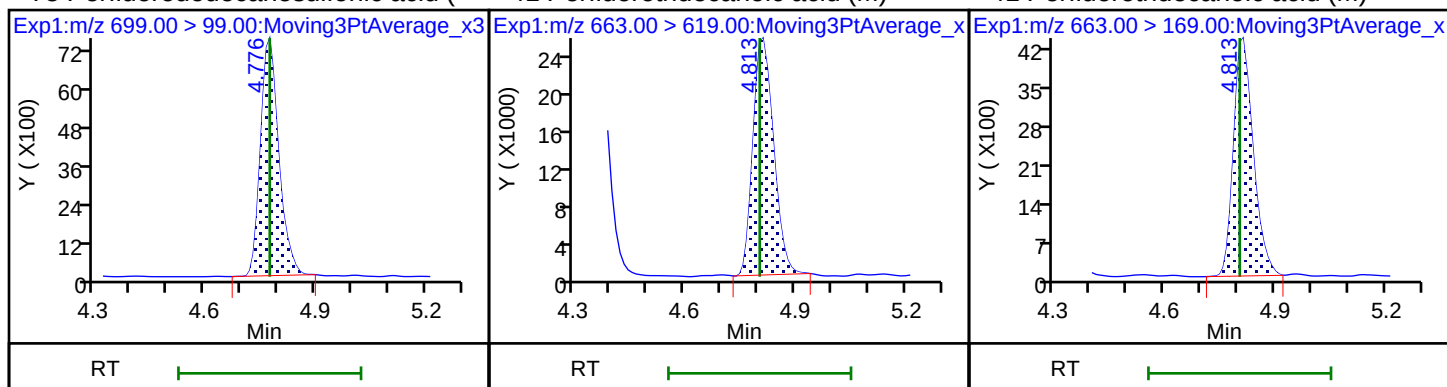
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

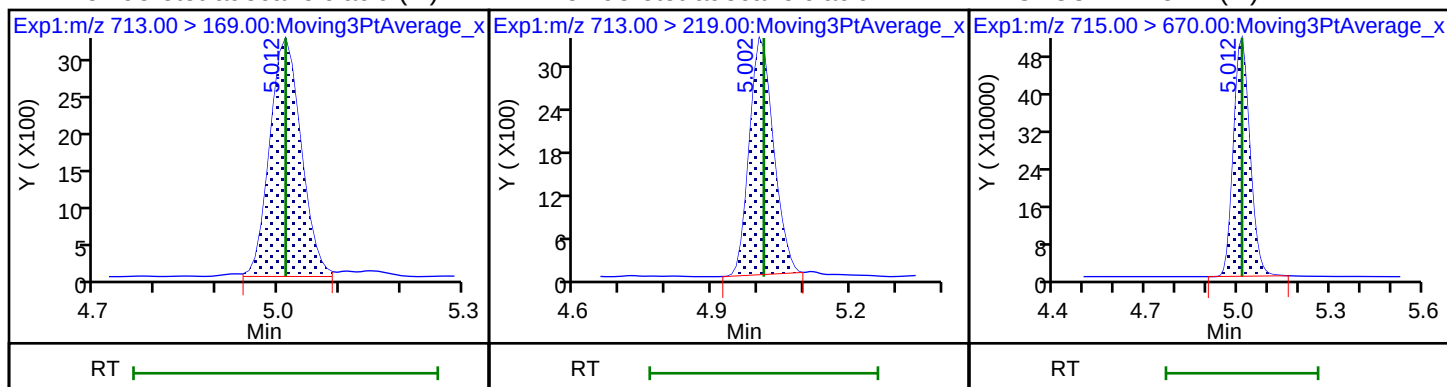
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

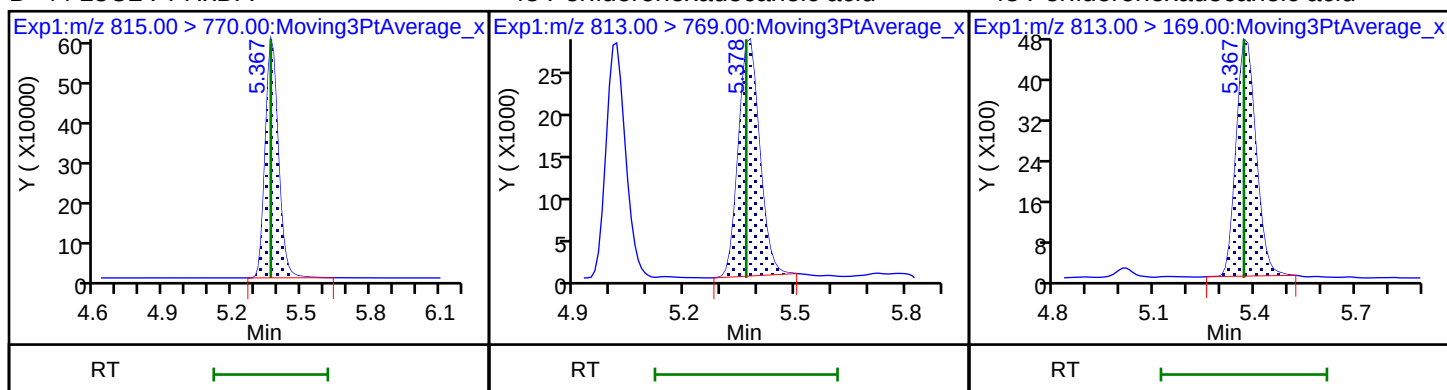
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA

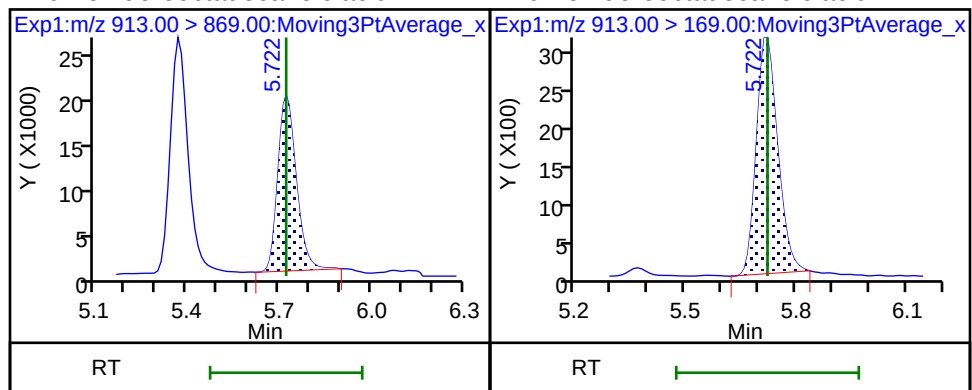
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

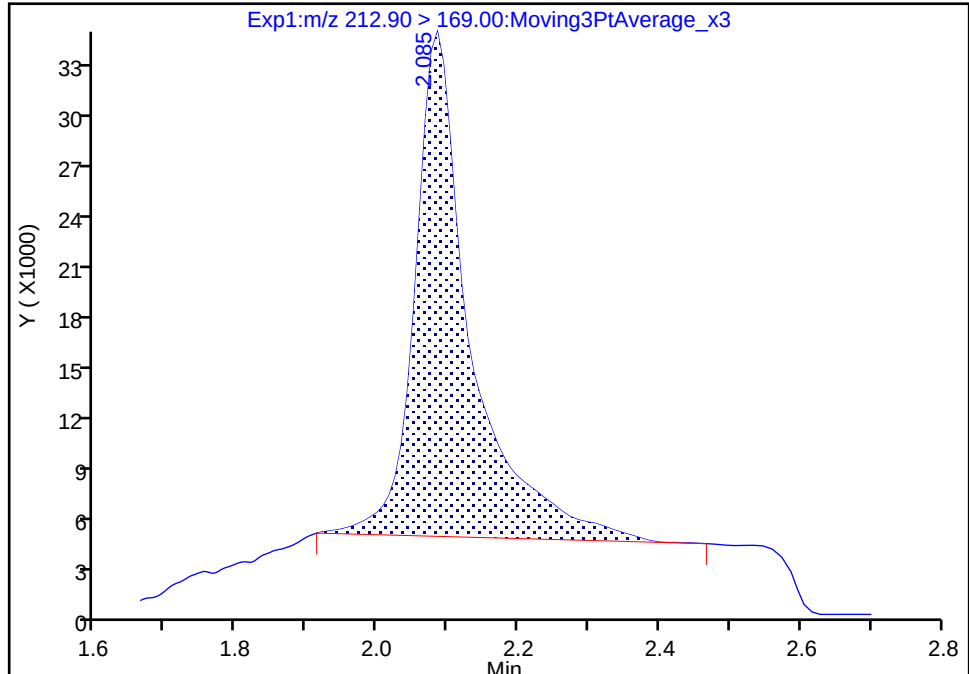
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

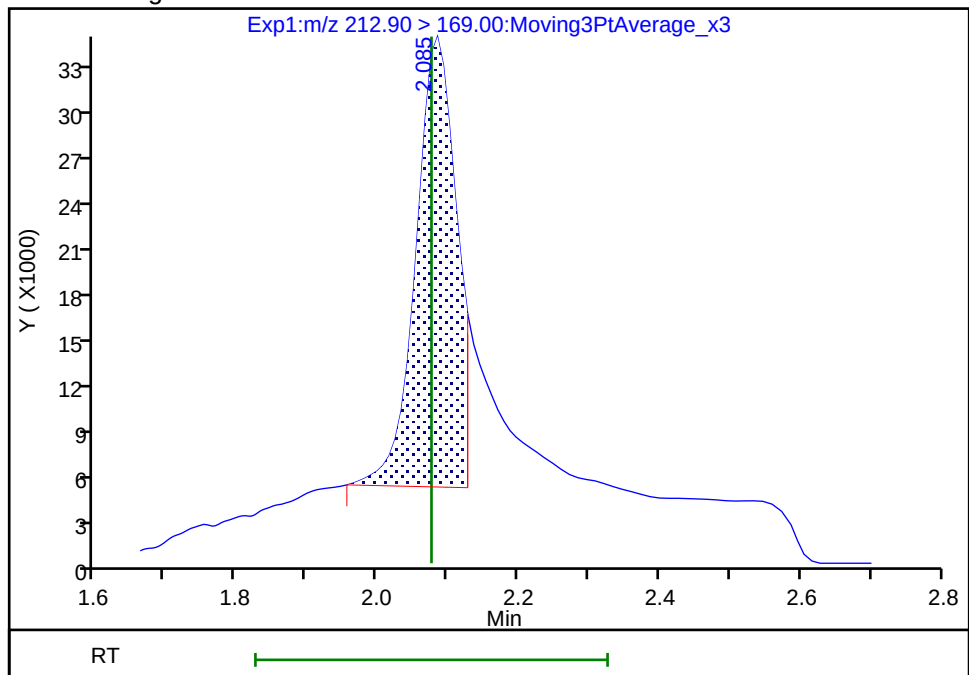
RT: 2.08
Area: 167014
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 117447
Amount: 0.055493
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:43:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

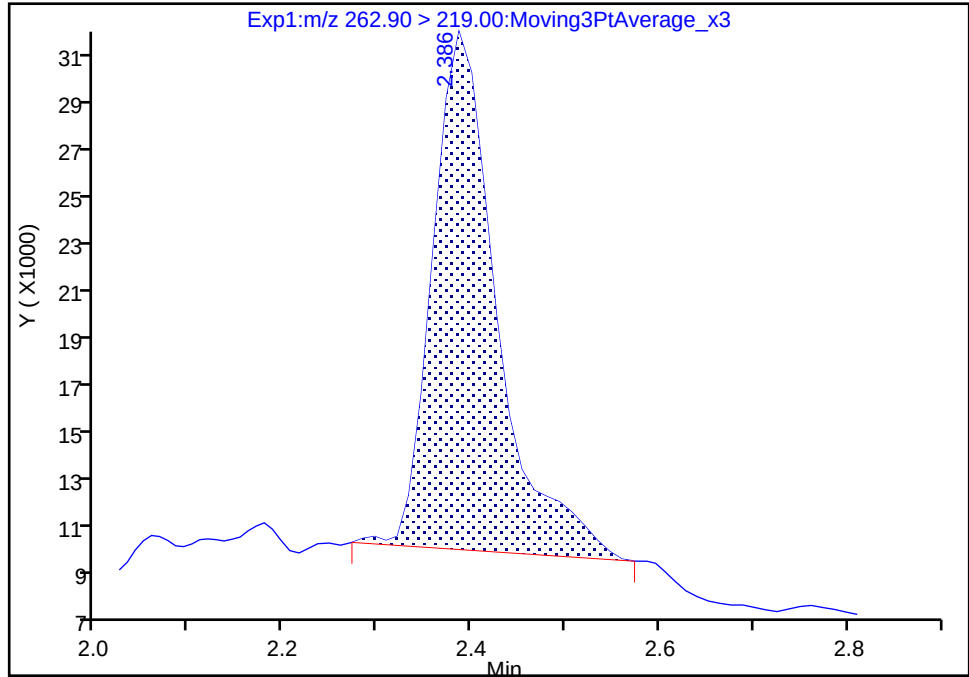
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

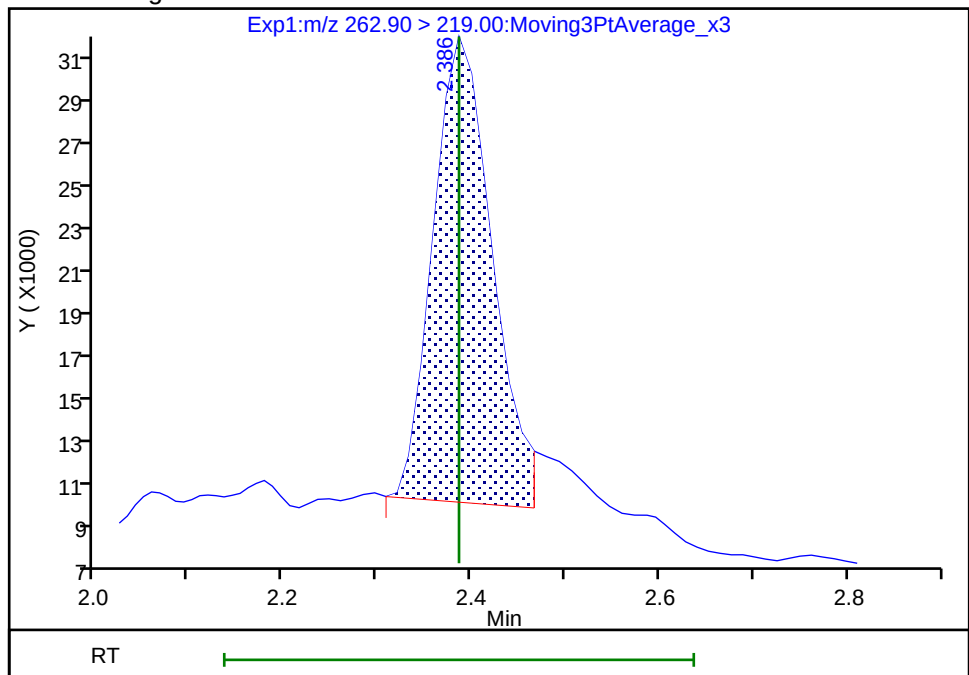
RT: 2.39
Area: 100957
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 91274
Amount: 0.053984
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

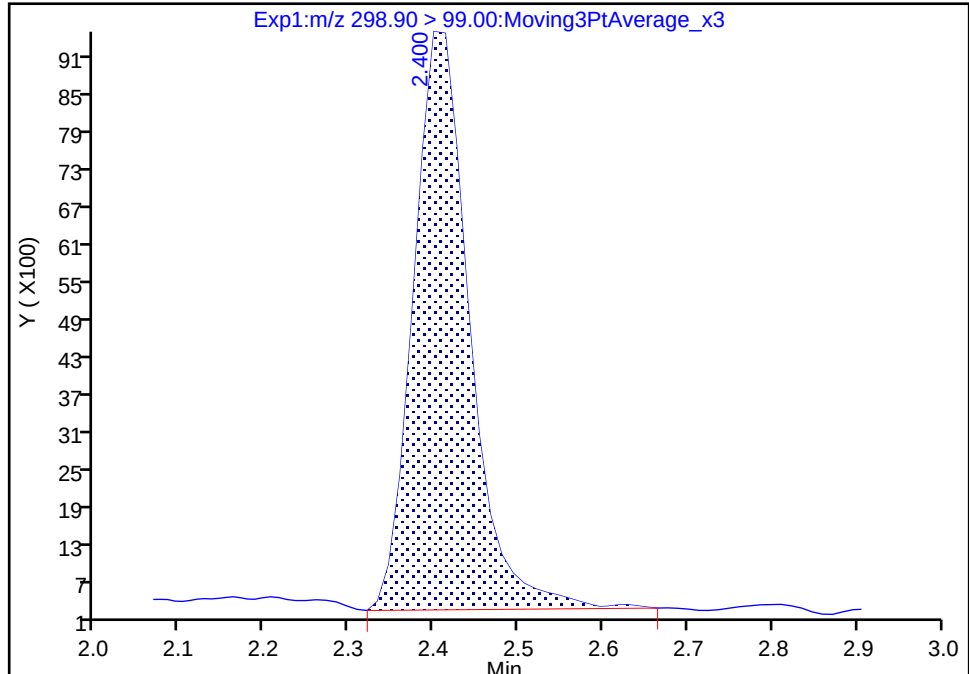
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

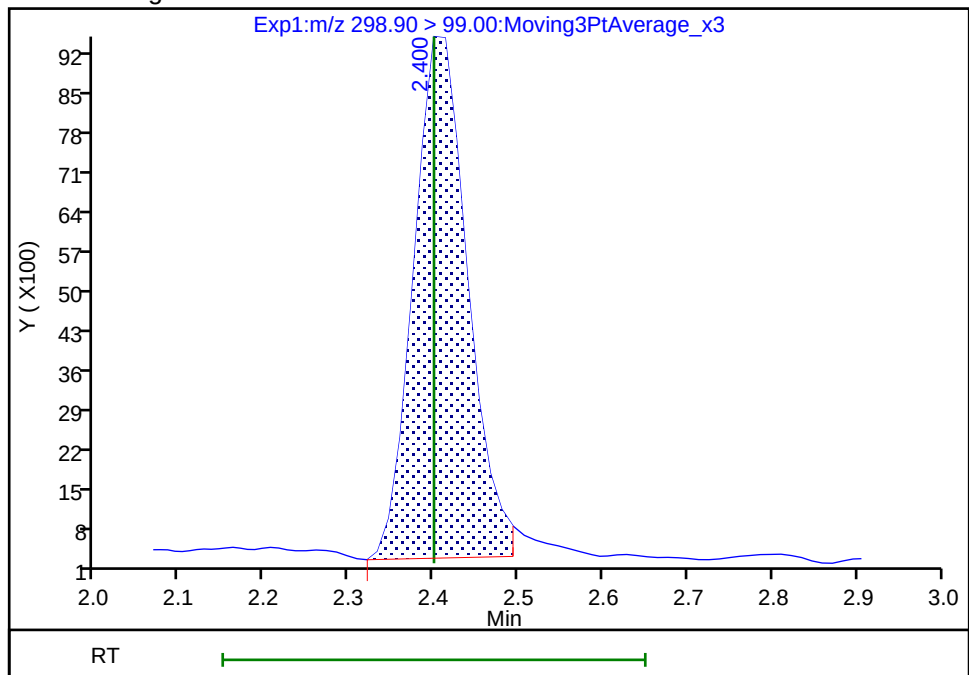
RT: 2.40
Area: 42716
Amount: 0.044200
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 40889
Amount: 0.048736
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

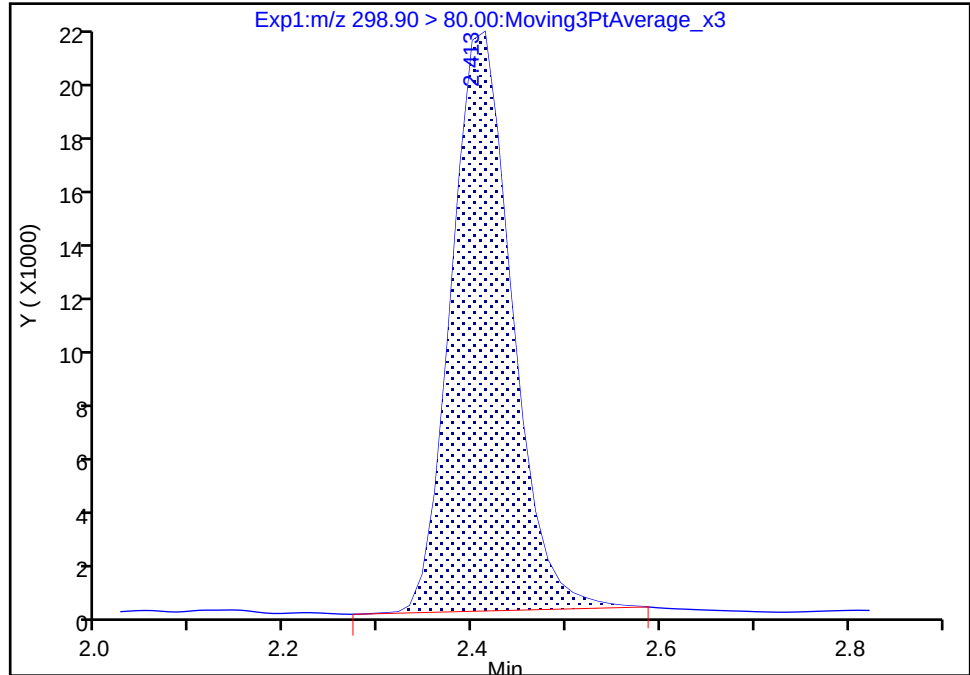
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Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

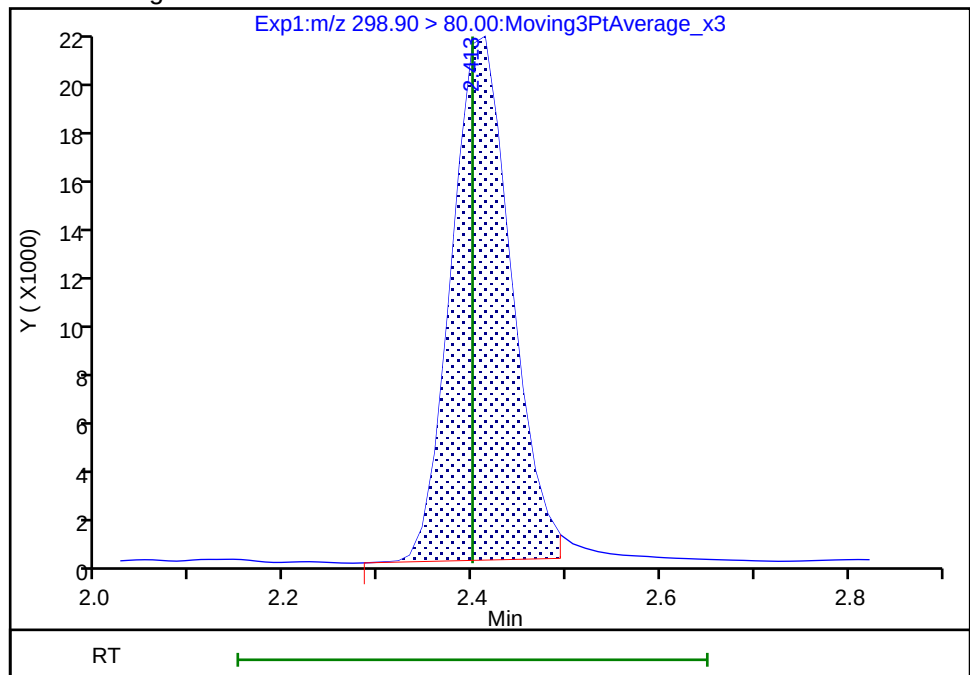
RT: 2.41
Area: 95701
Amount: 0.044200
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 94070
Amount: 0.048736
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

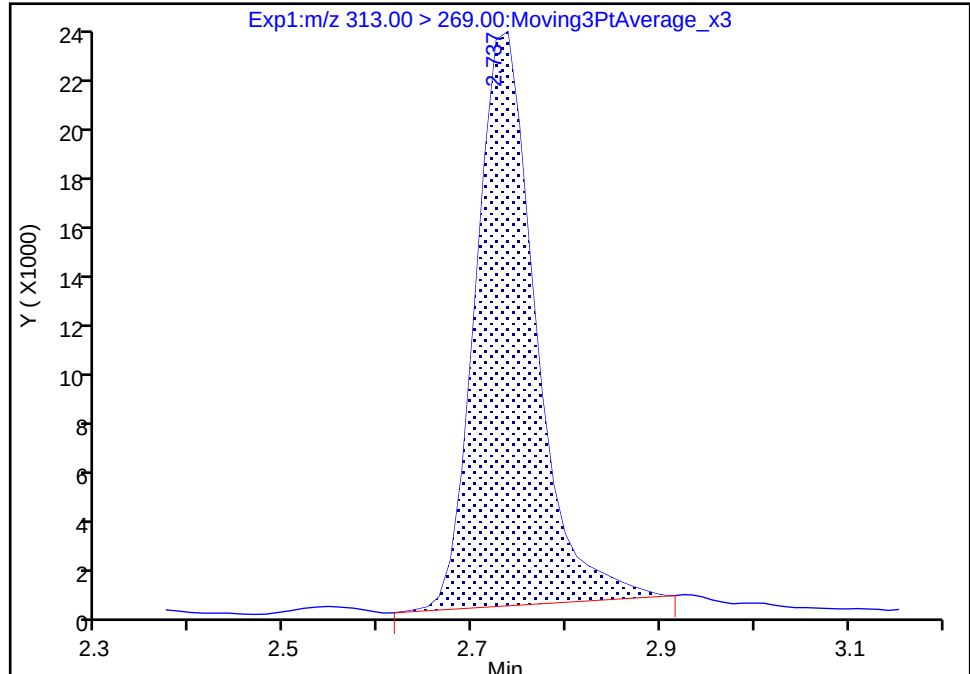
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

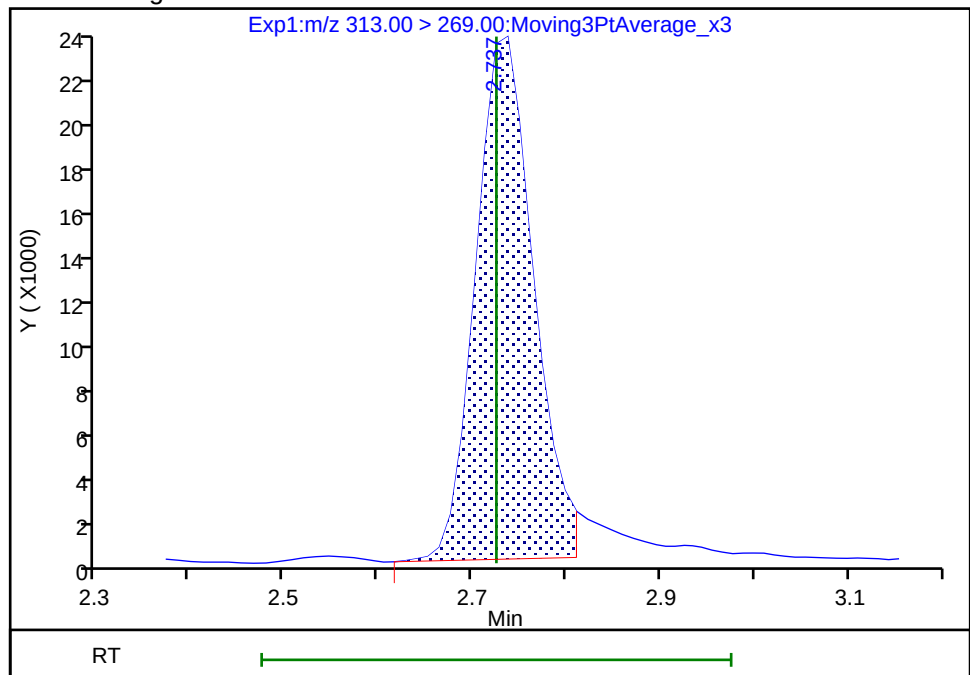
RT: 2.74
Area: 96124
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 93459
Amount: 0.053742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

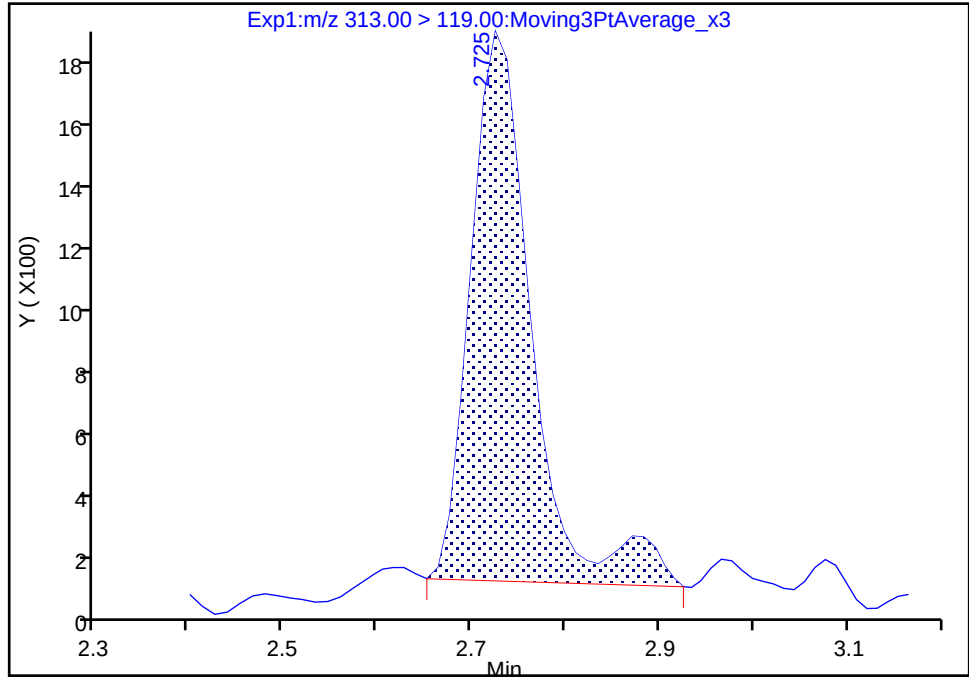
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

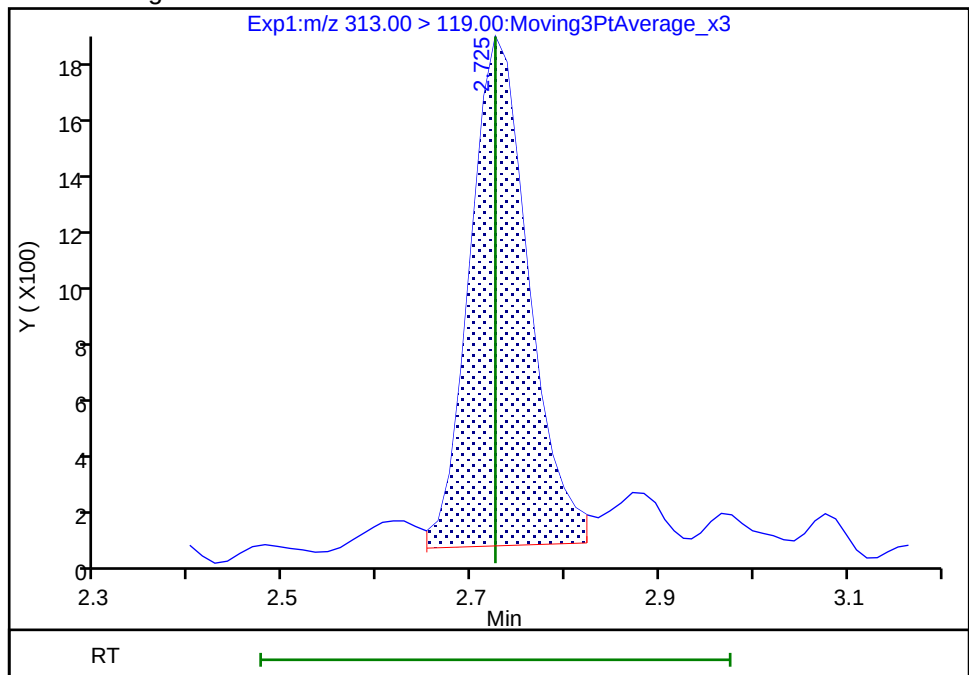
RT: 2.73
Area: 7775
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 7632
Amount: 0.053742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

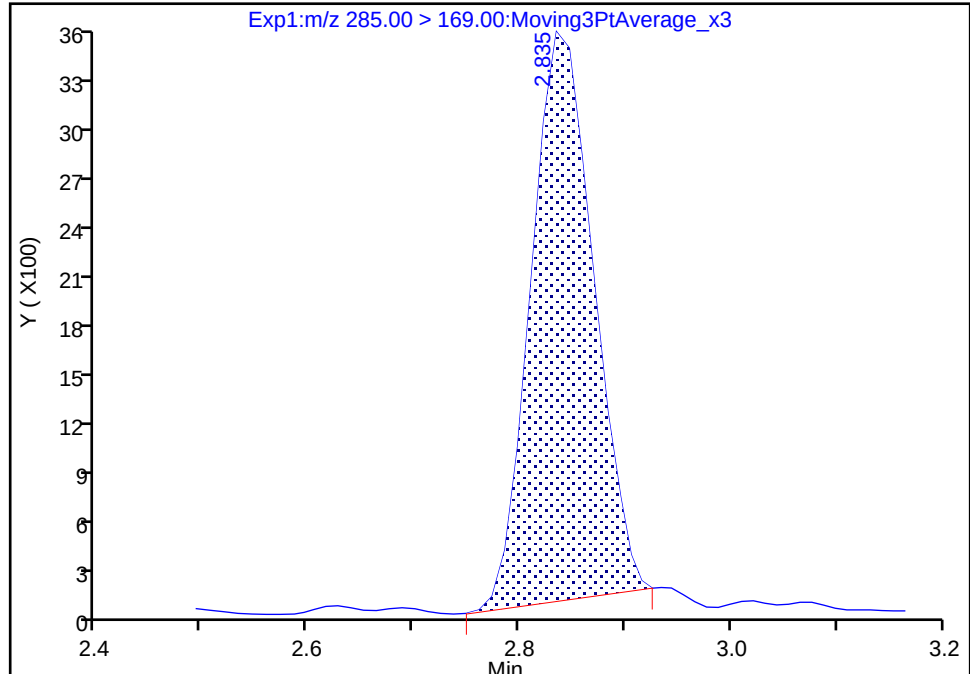
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

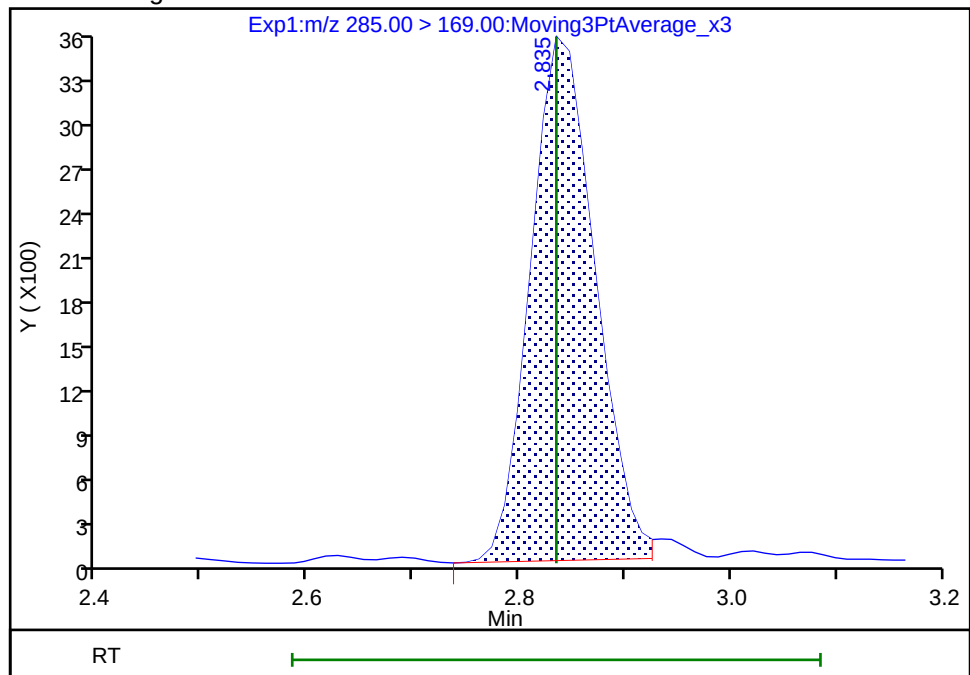
RT: 2.83
Area: 14159
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 14811
Amount: 0.051880
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

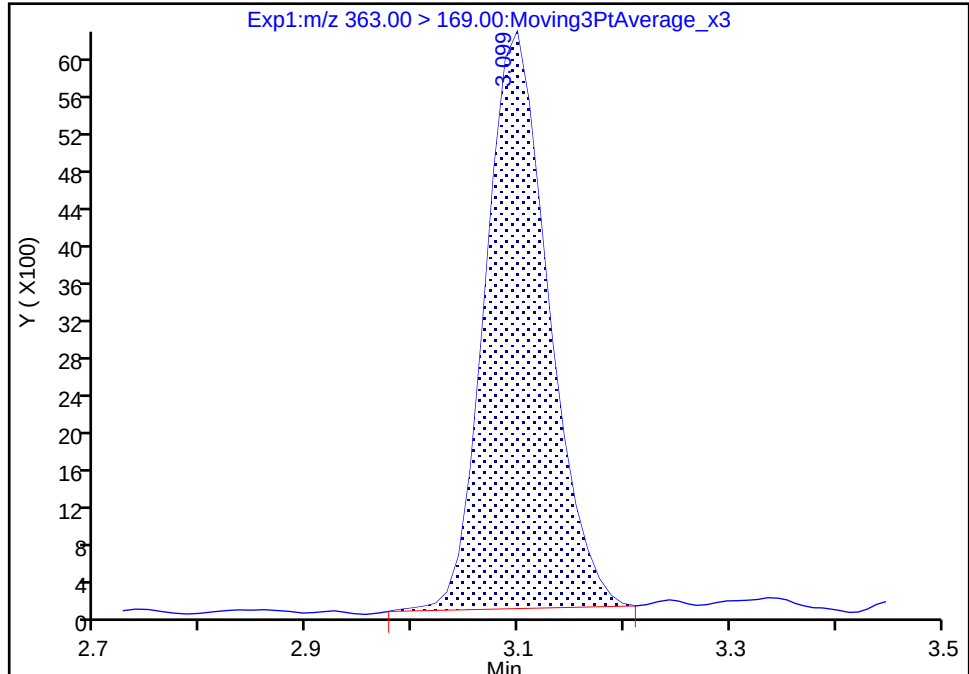
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

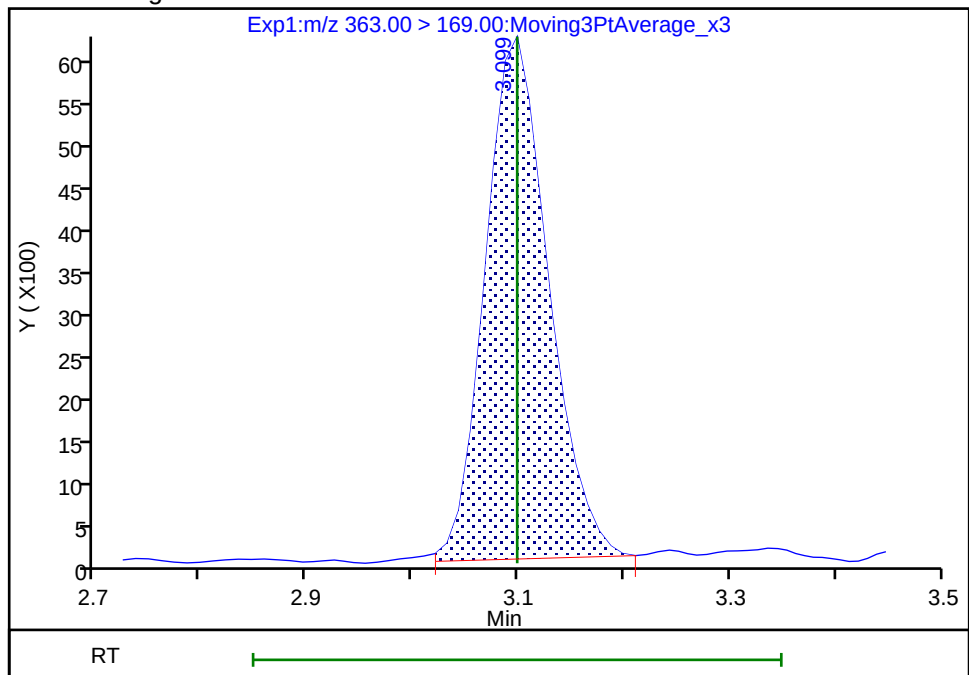
RT: 3.10
Area: 25598
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 25626
Amount: 0.054935
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

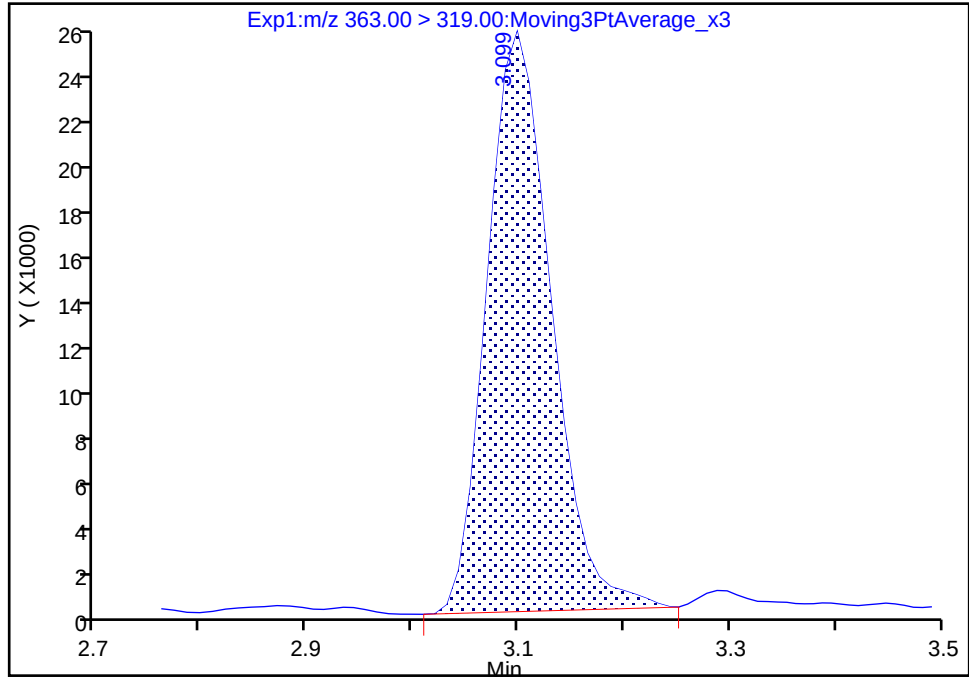
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

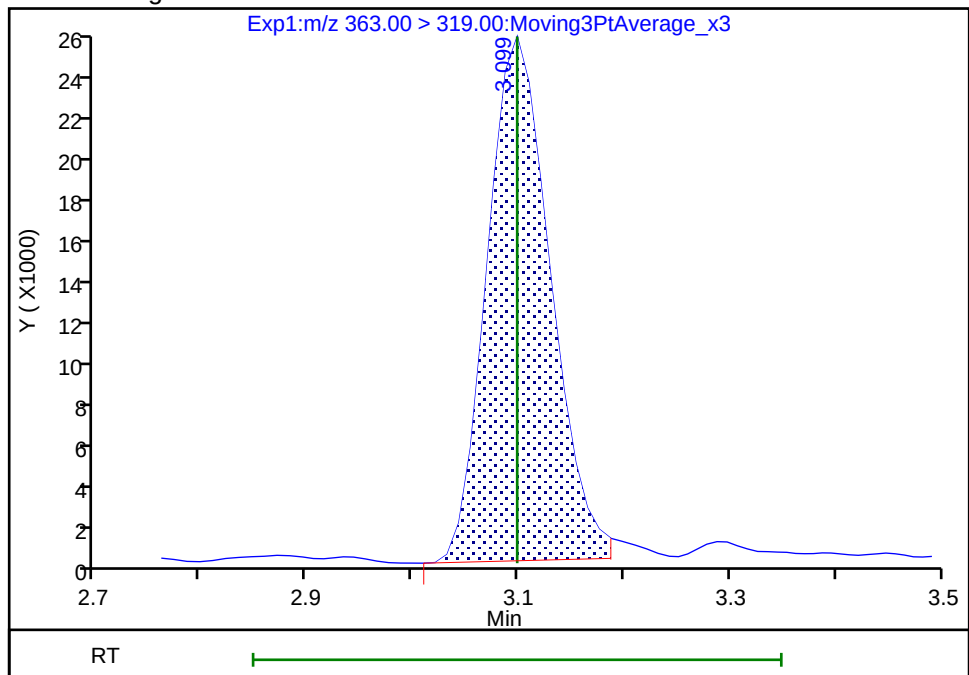
RT: 3.10
Area: 102094
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 100453
Amount: 0.054935
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

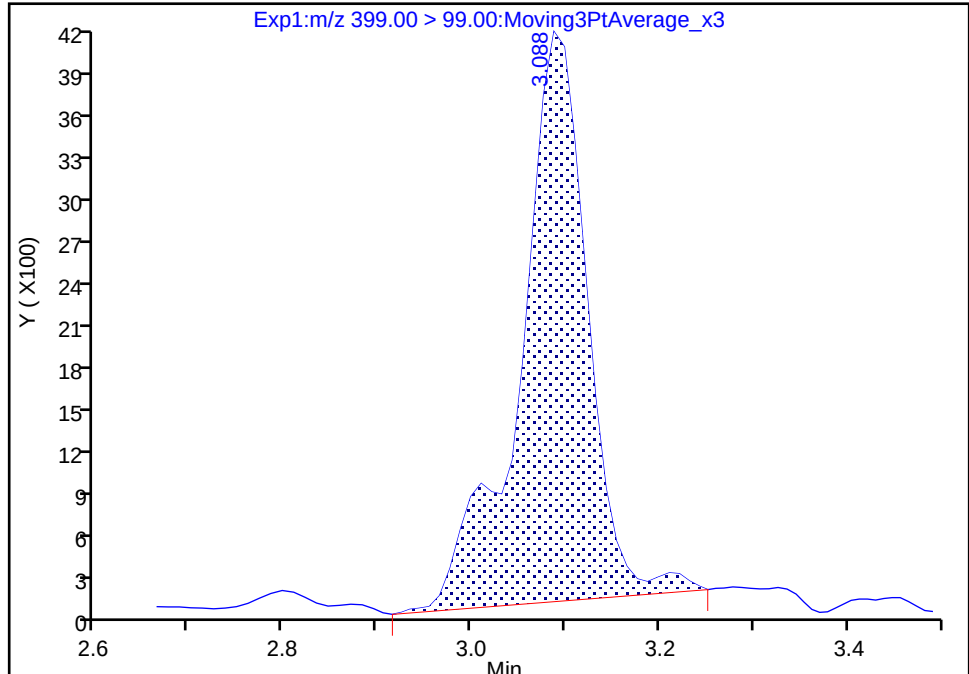
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

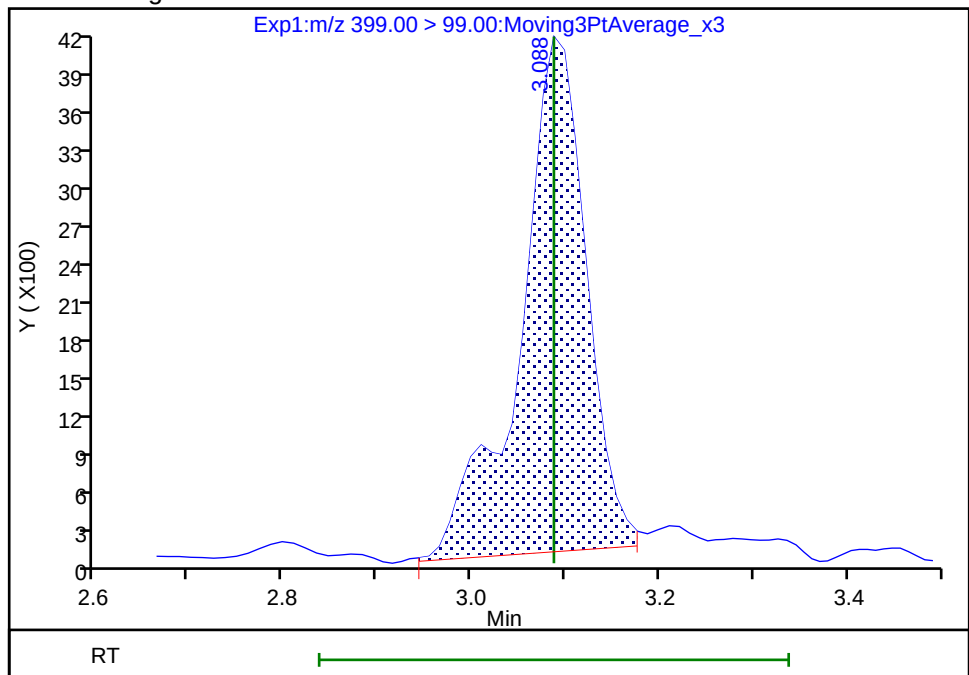
RT: 3.09
Area: 19897
Amount: 0.045500
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 19455
Amount: 0.049046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

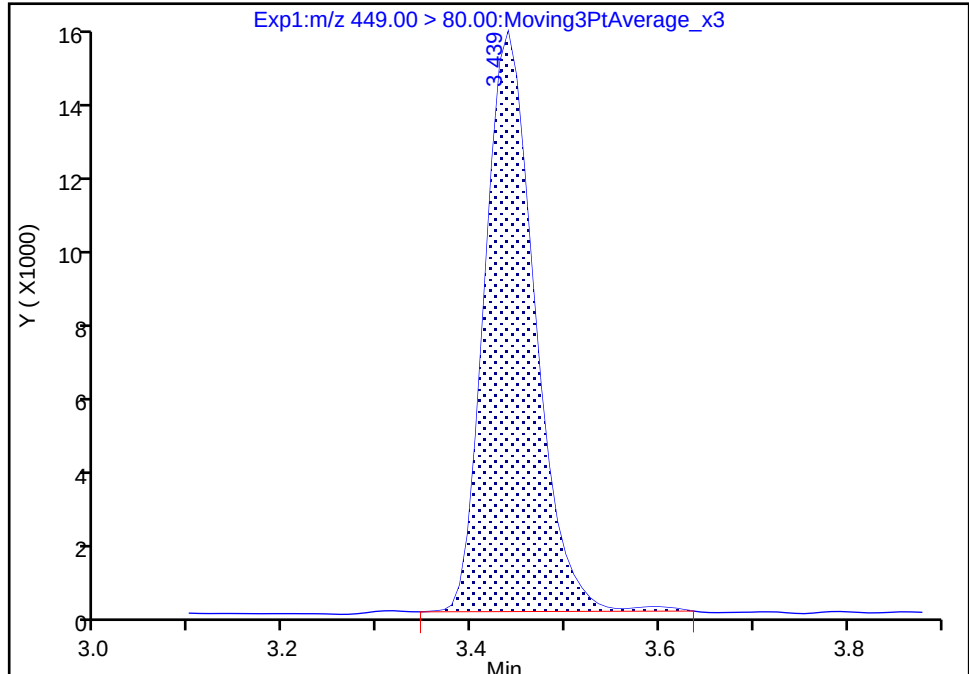
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Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

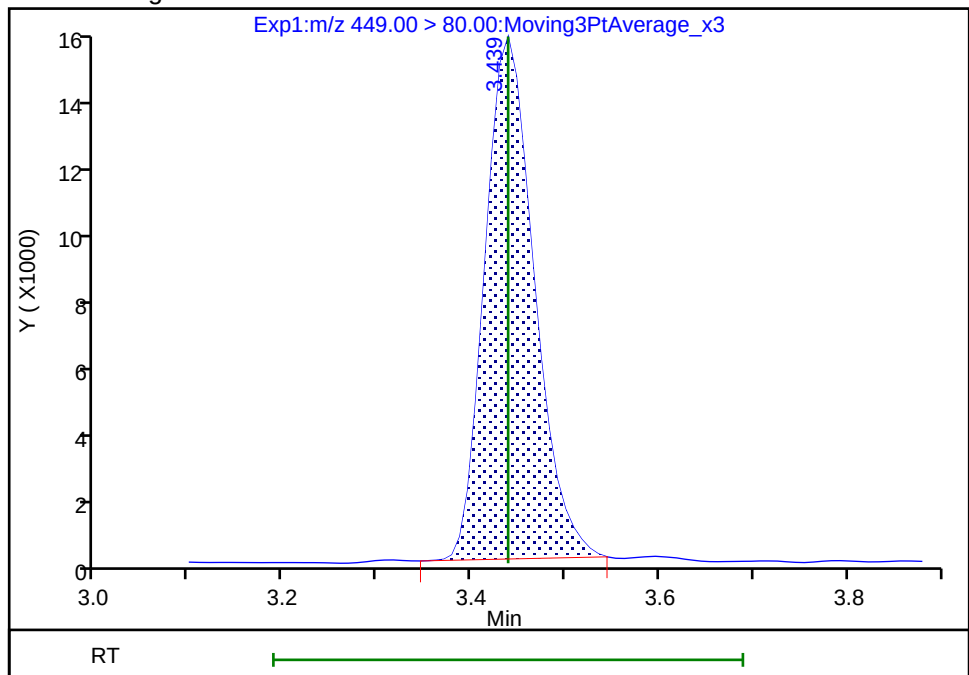
RT: 3.44
Area: 58353
Amount: 0.047600
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 57260
Amount: 0.049533
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

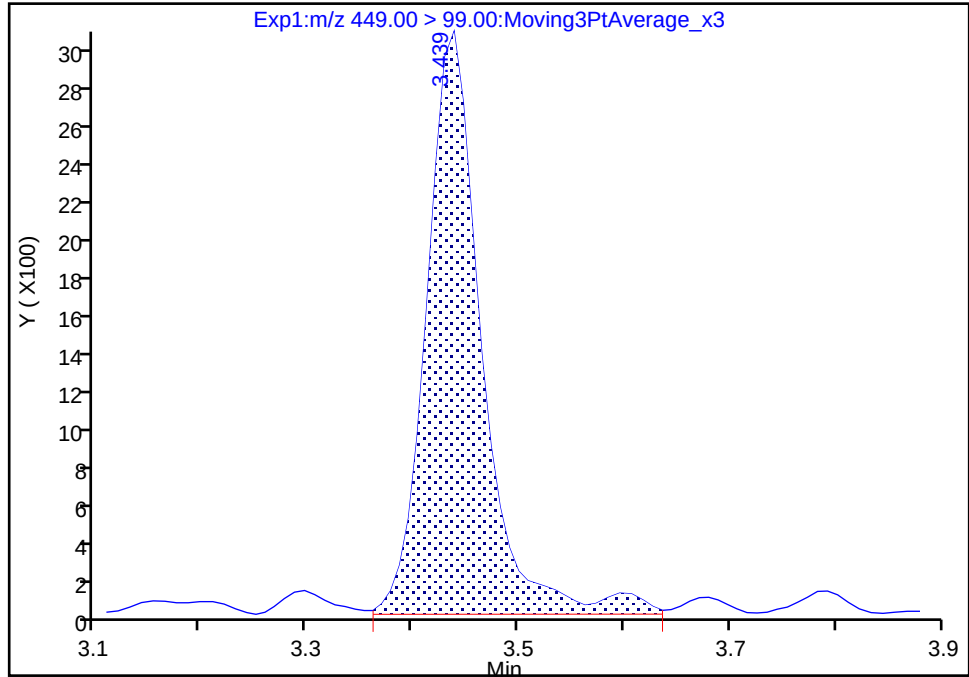
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

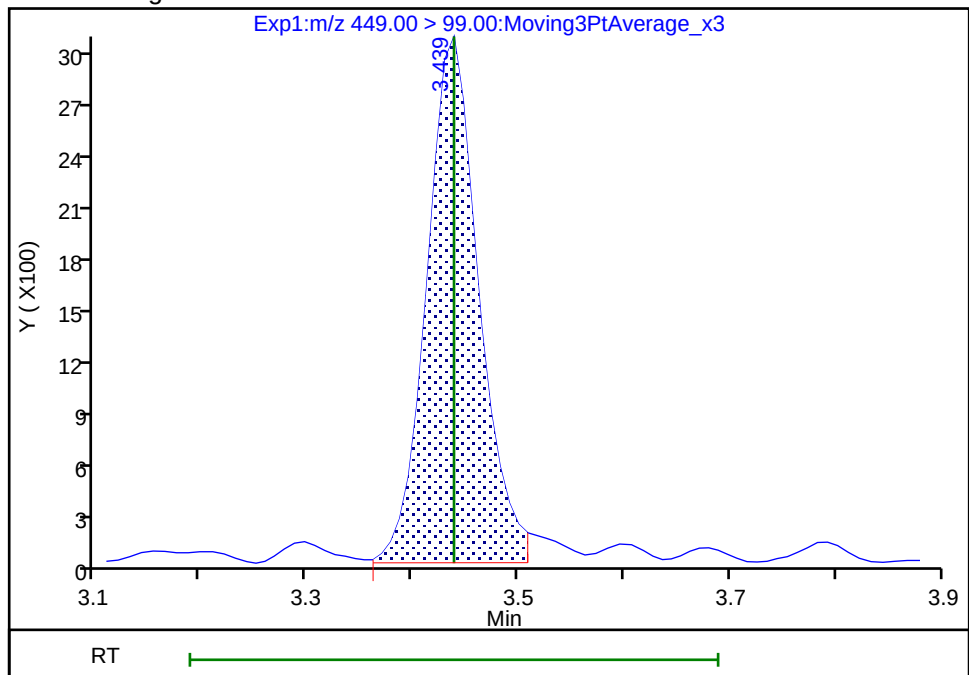
RT: 3.44
Area: 11226
Amount: 0.047600
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 10494
Amount: 0.049533
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

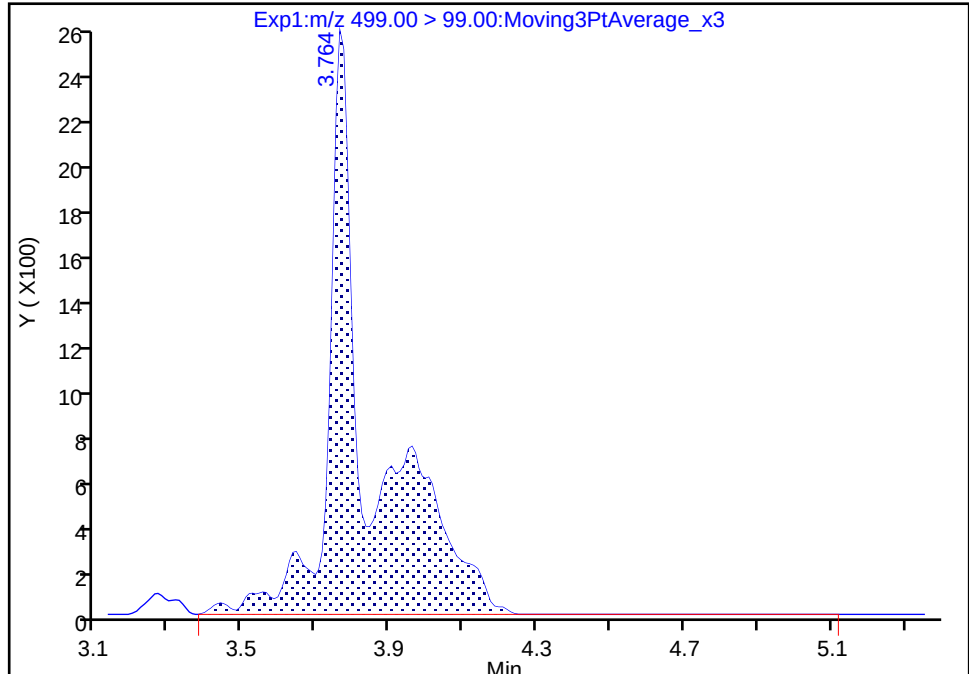
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

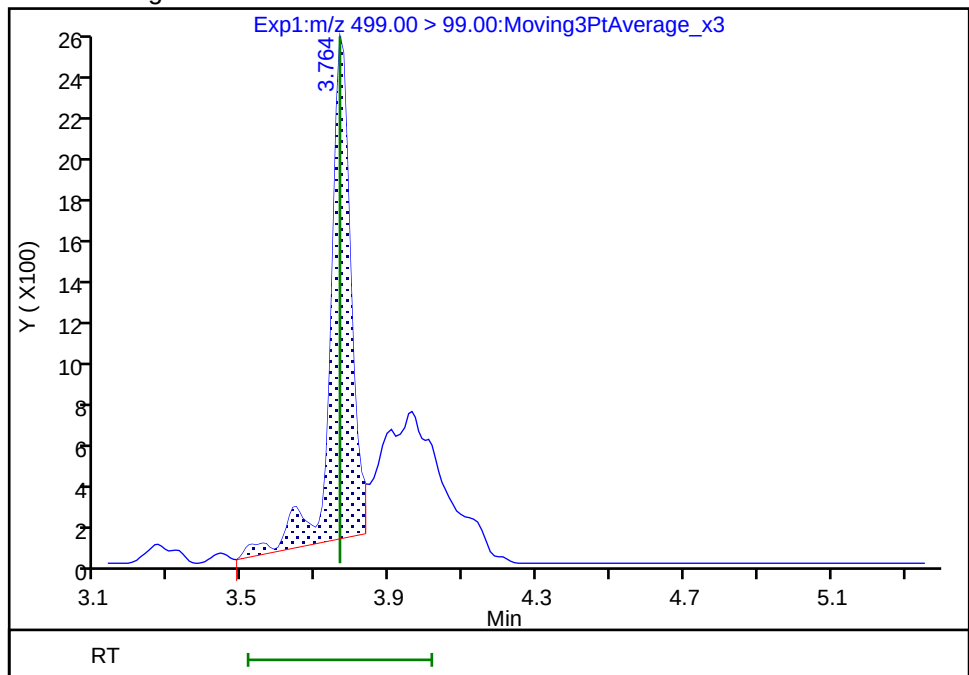
RT: 3.76
Area: 20272
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 9421
Amount: 0.052820
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

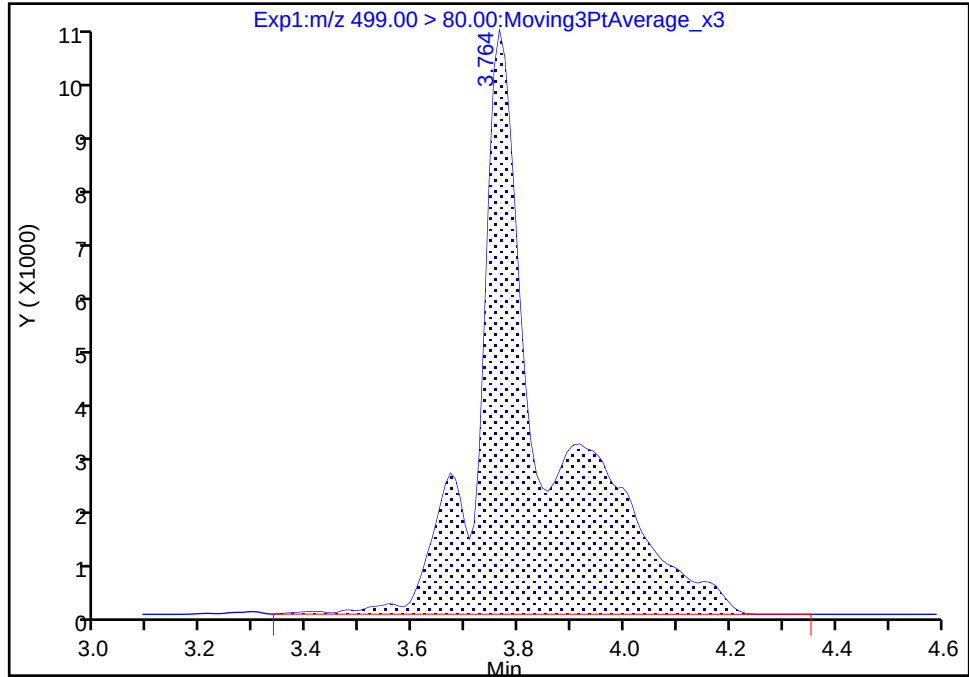
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

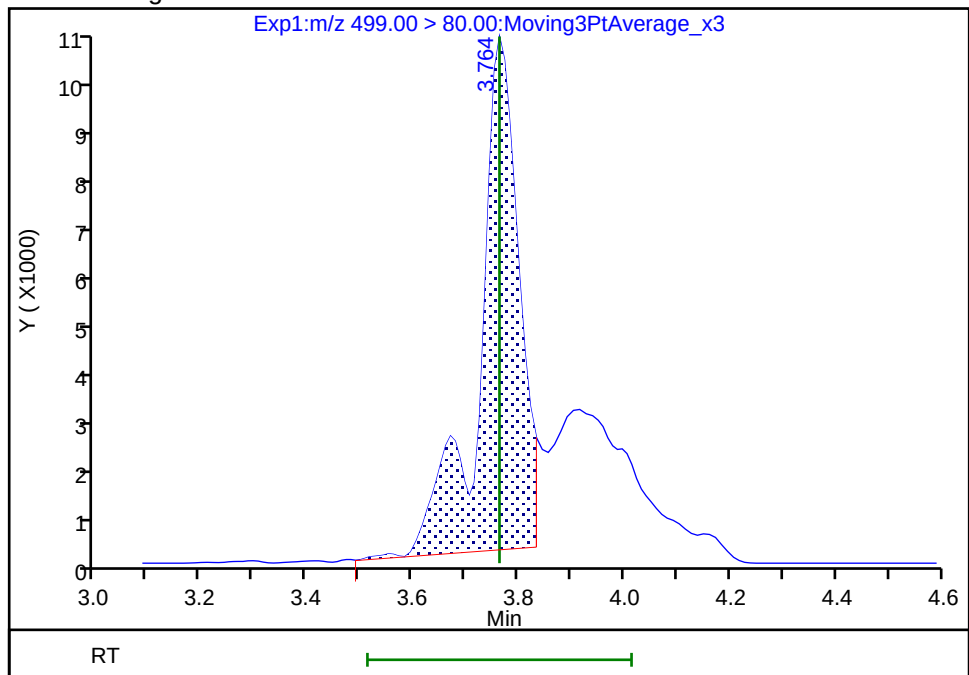
RT: 3.76
Area: 95043
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 53166
Amount: 0.052820
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:11:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d

Injection Date: 18-Nov-2022 14:29:54

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

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)

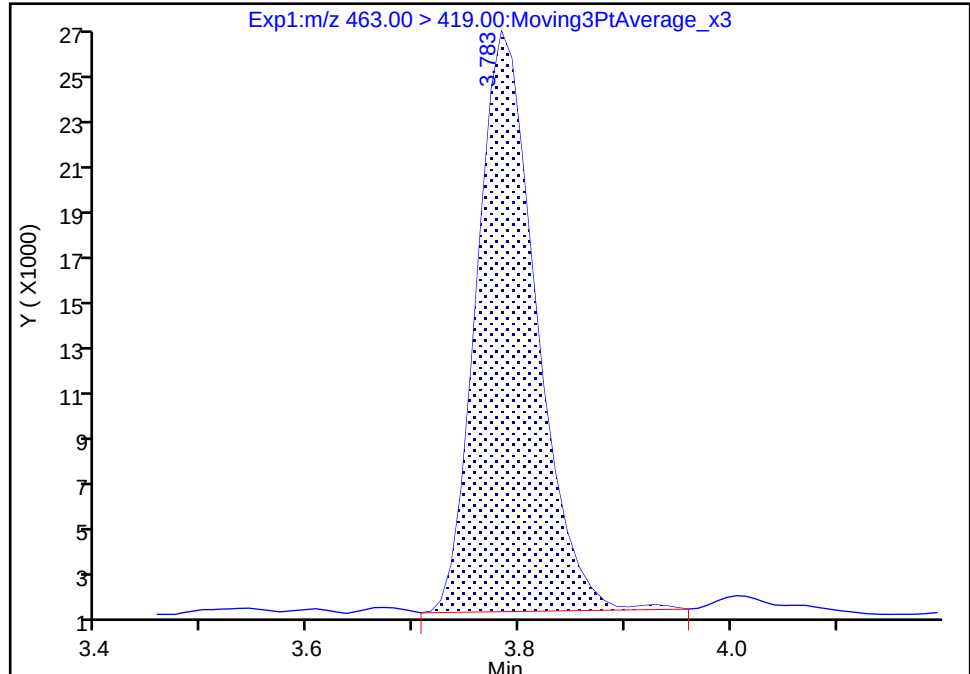
Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

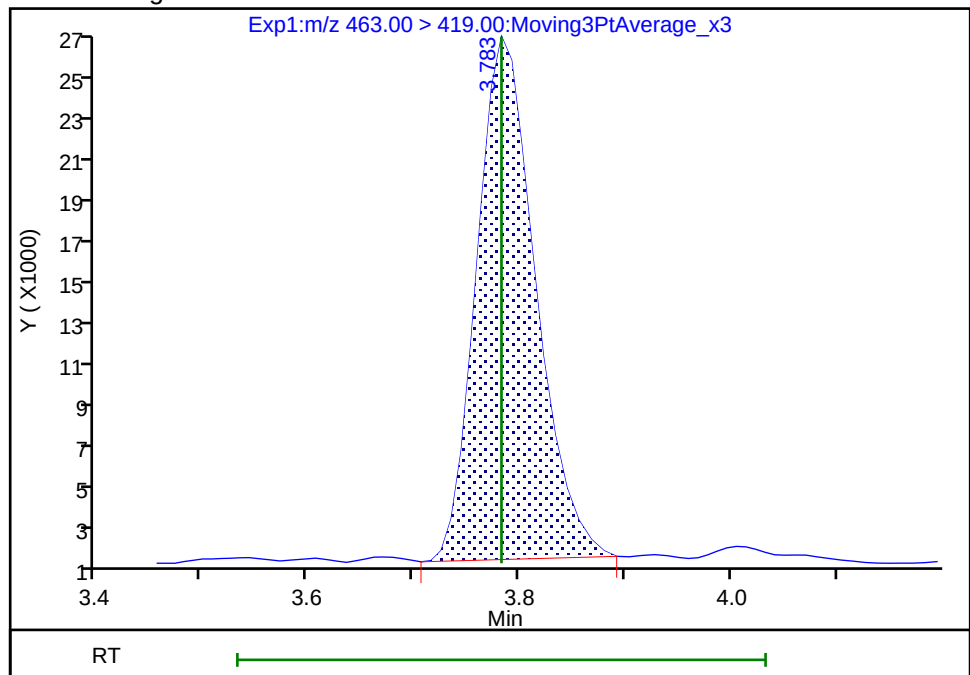
RT: 3.78
Area: 99415
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 98046
Amount: 0.051796
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

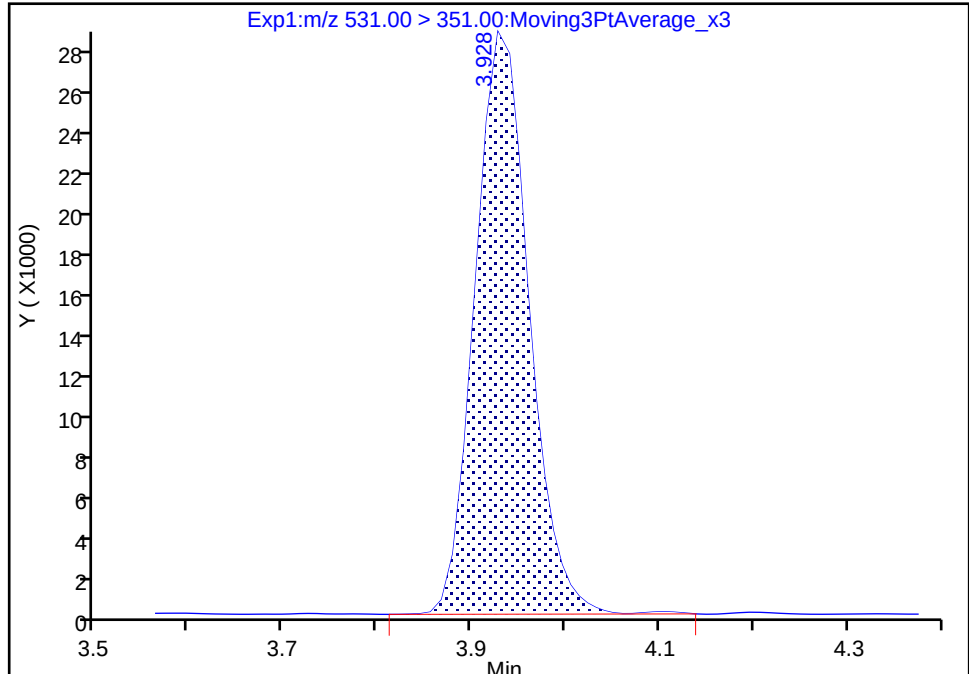
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

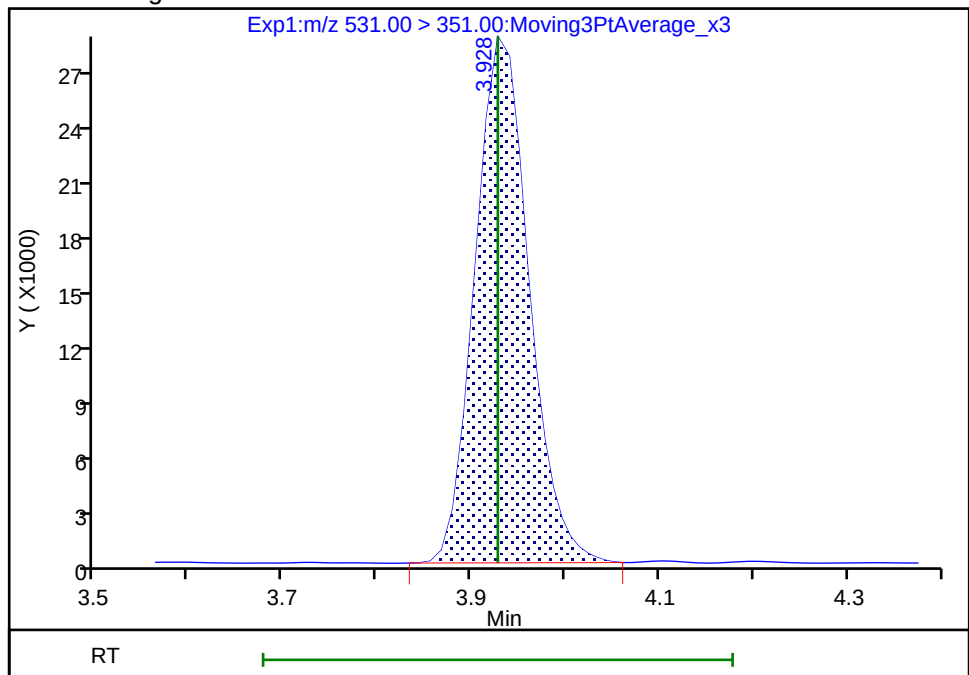
RT: 3.93
Area: 114530
Amount: 0.046600
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 114059
Amount: 0.049374
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

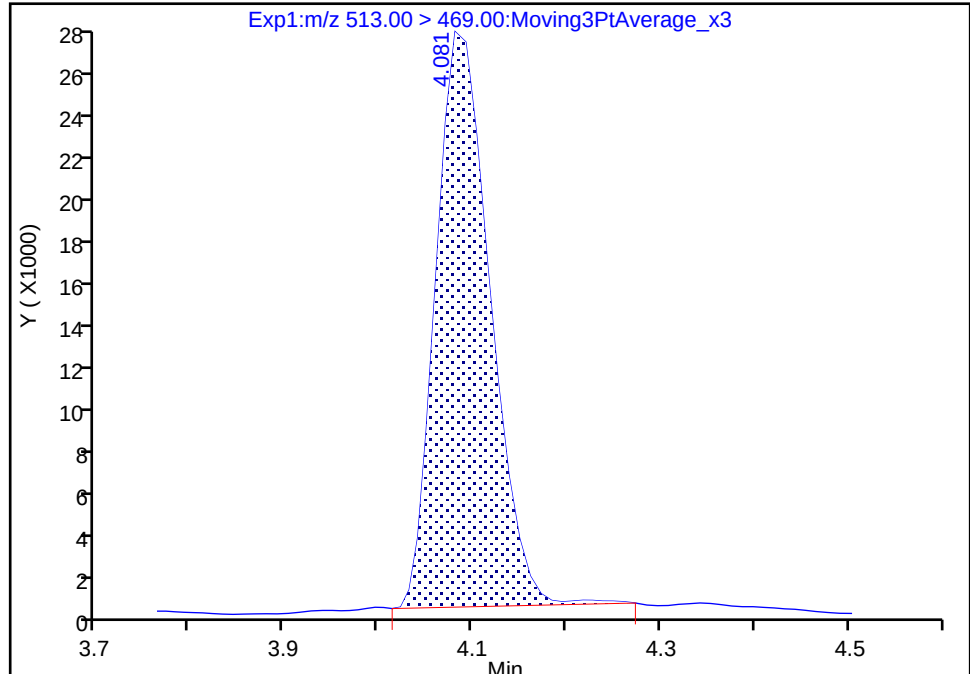
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

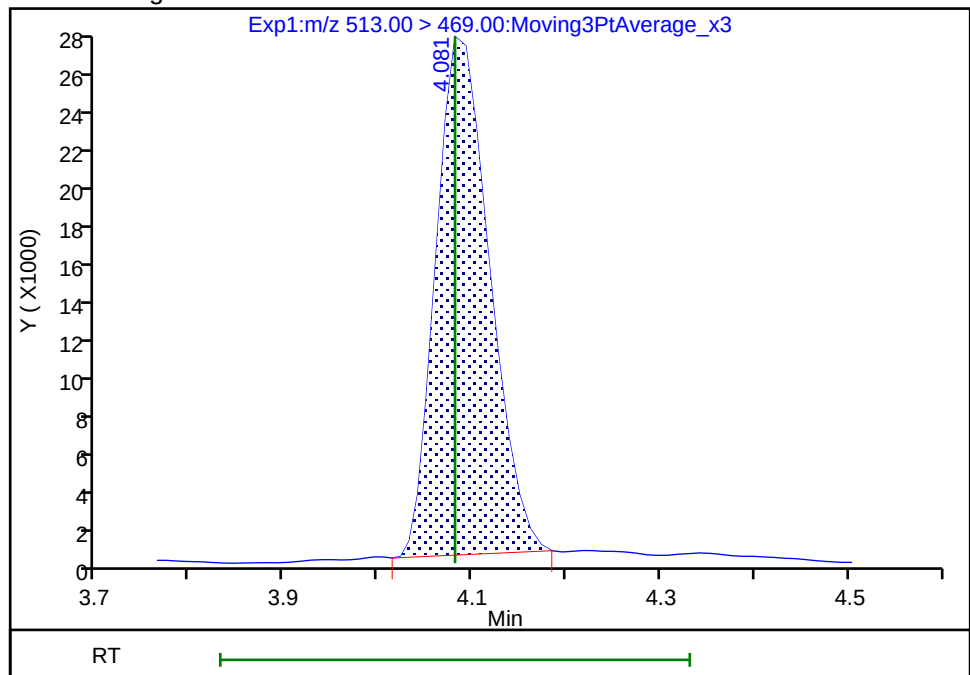
RT: 4.08
Area: 107153
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 105421
Amount: 0.053763
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

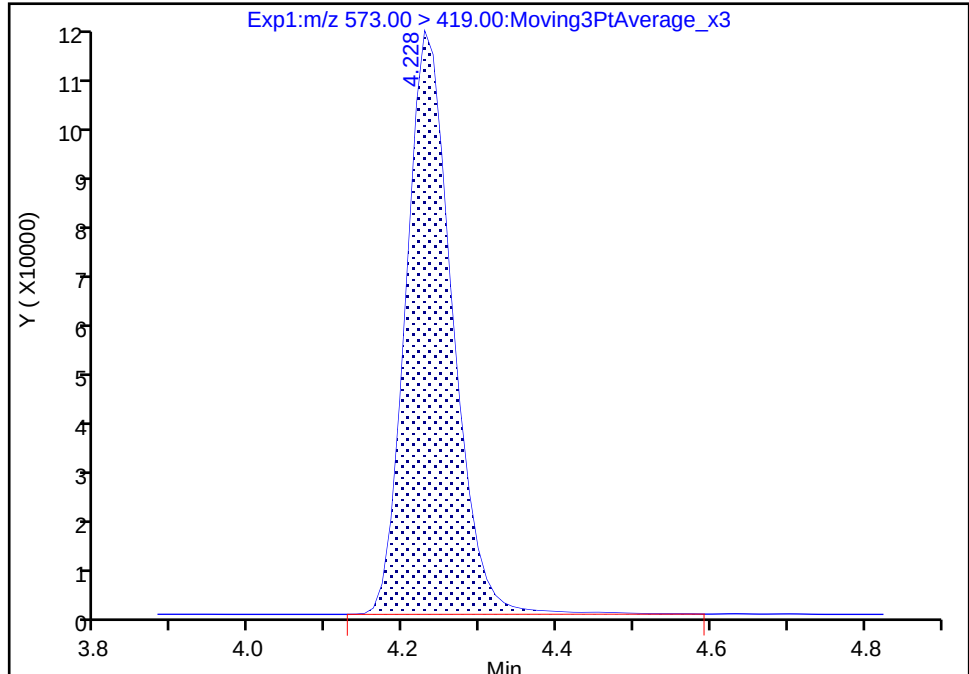
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

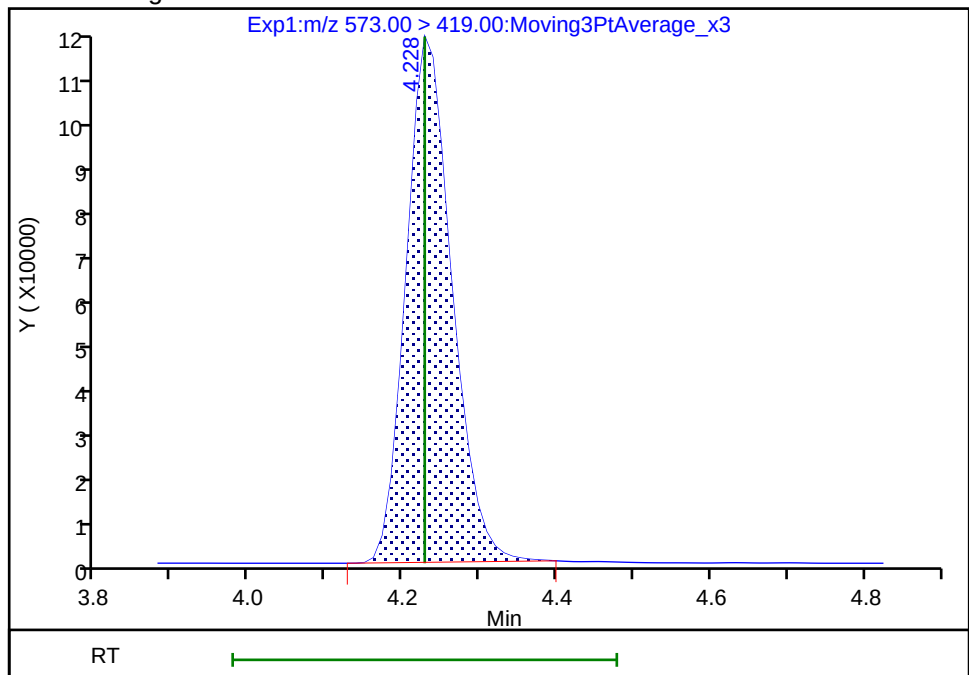
RT: 4.23
Area: 474177
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 467975
Amount: 1.245981
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

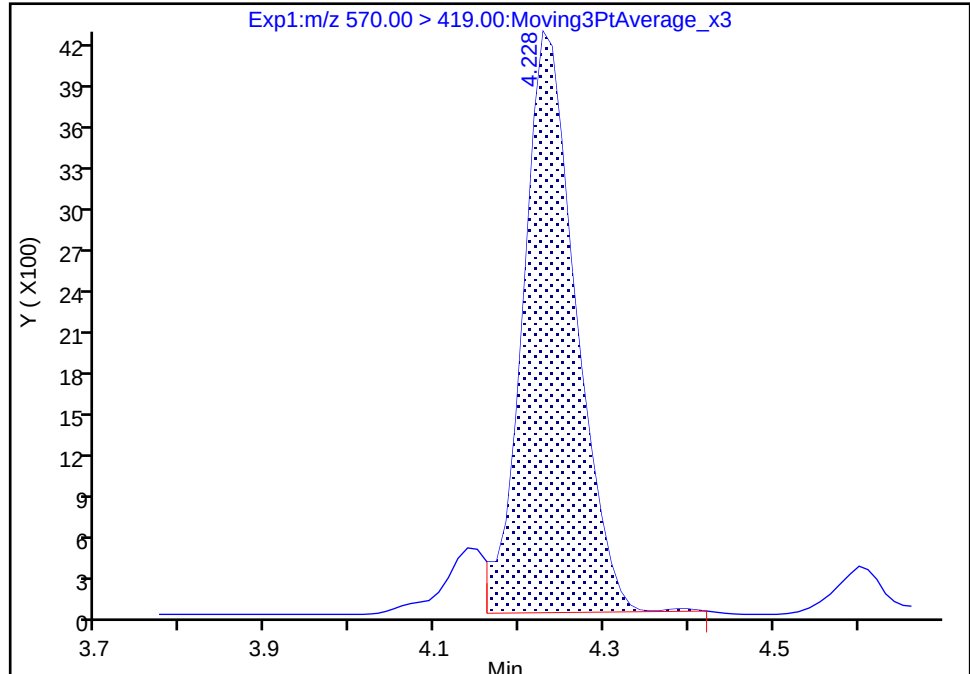
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

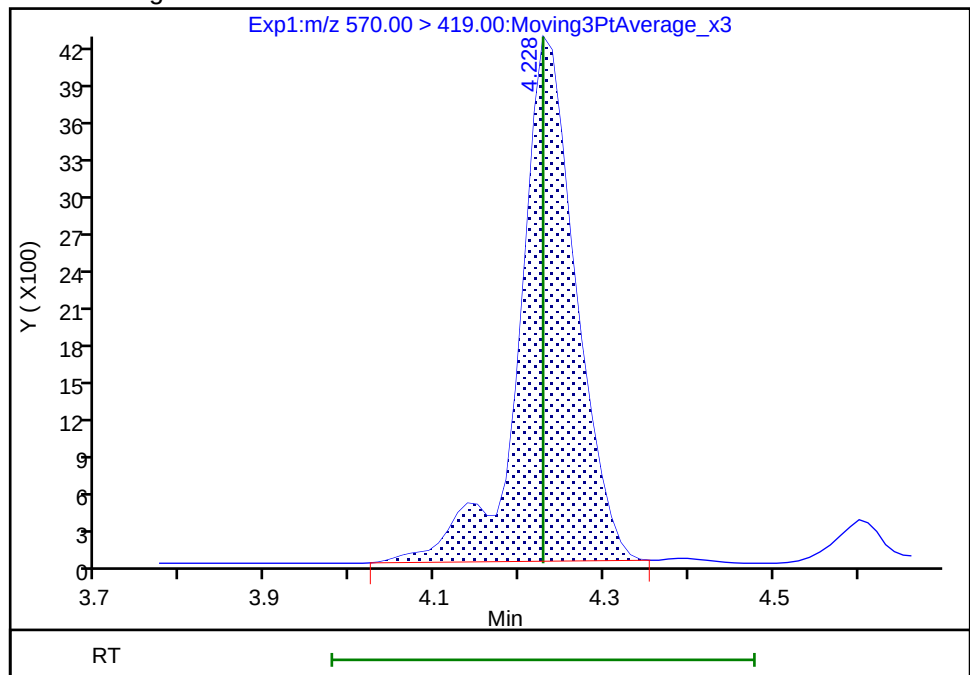
RT: 4.23
Area: 18117
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 19570
Amount: 0.049139
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

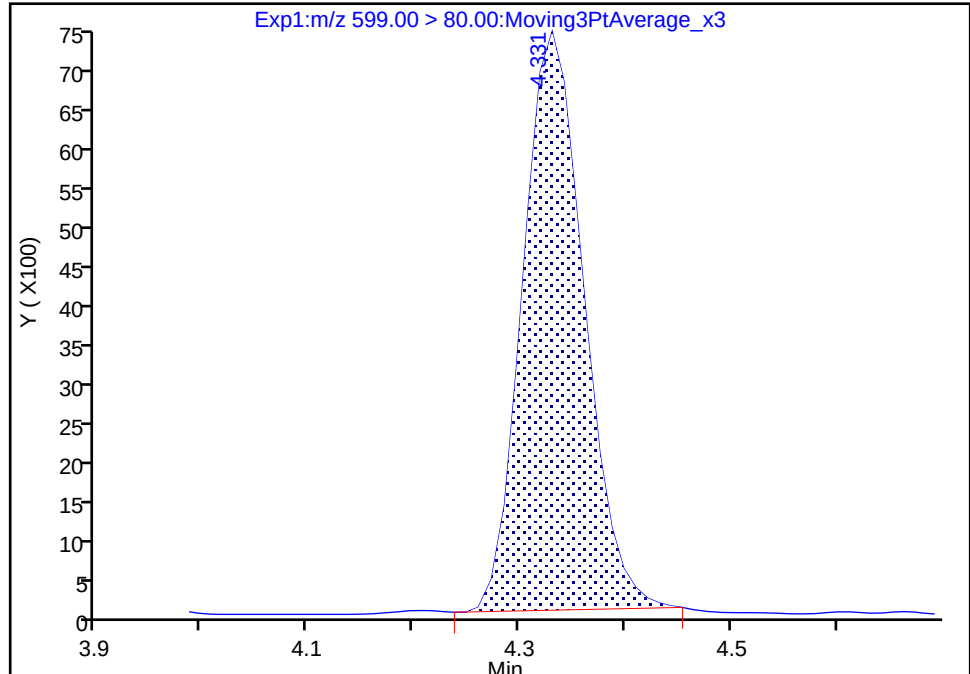
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

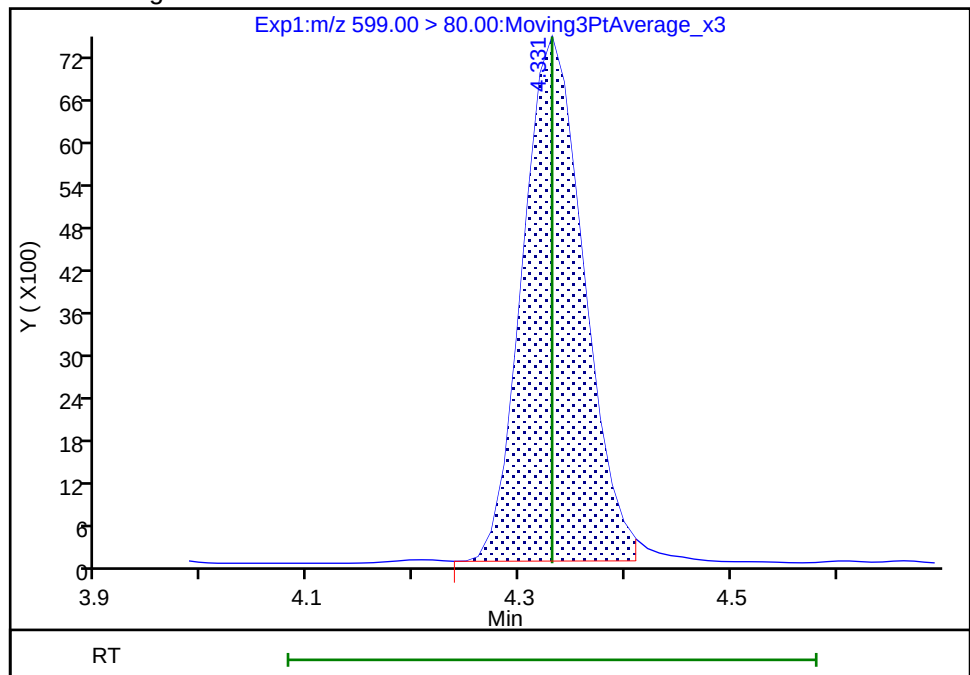
RT: 4.33
Area: 29832
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 29817
Amount: 0.049707
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

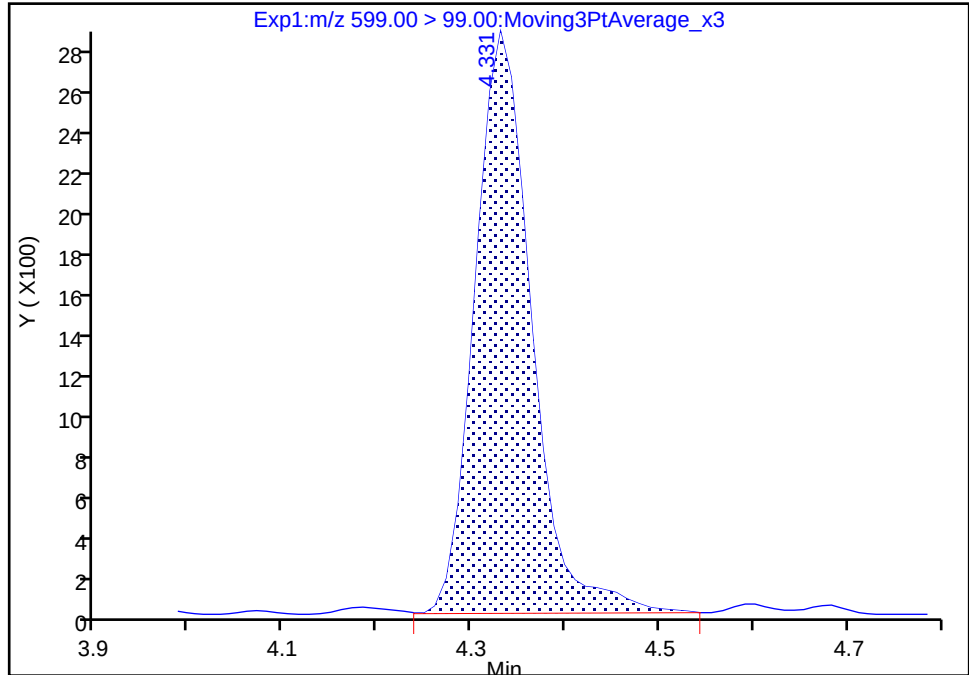
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

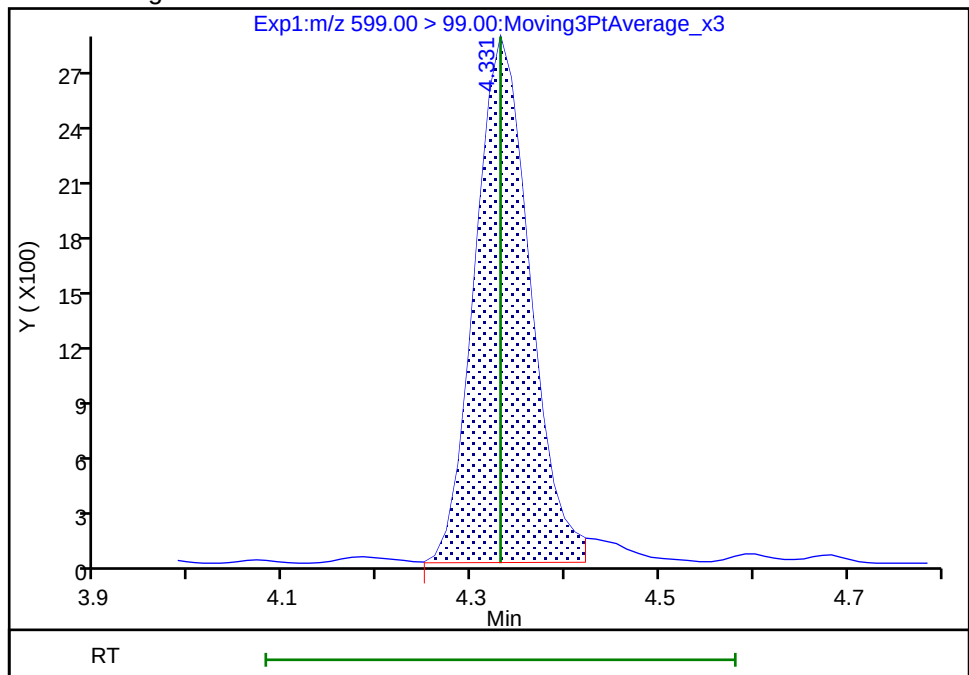
RT: 4.33
Area: 11882
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 11494
Amount: 0.049707
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

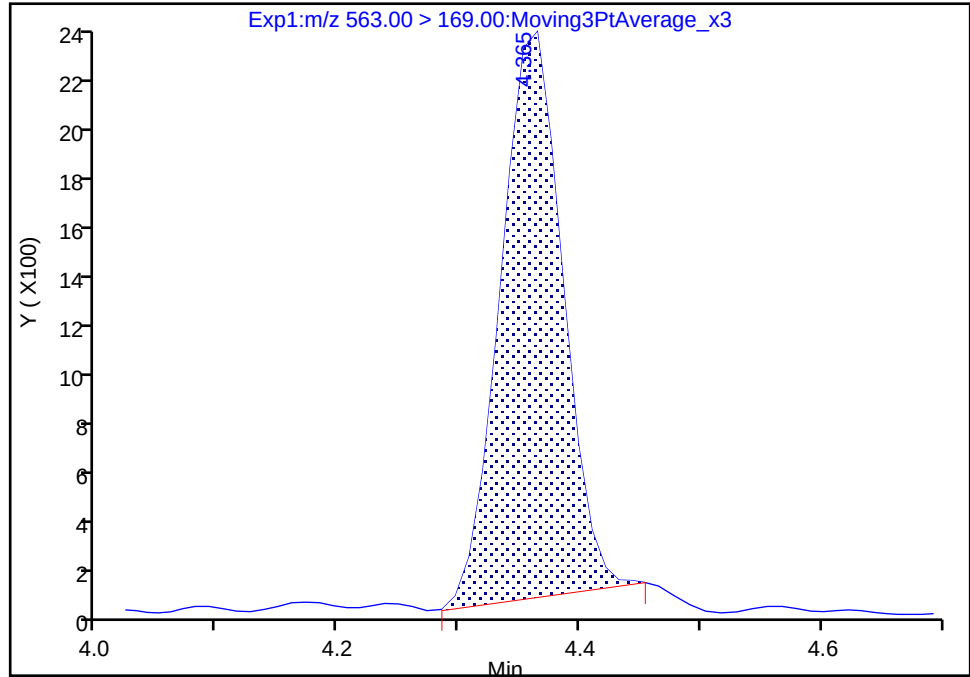
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

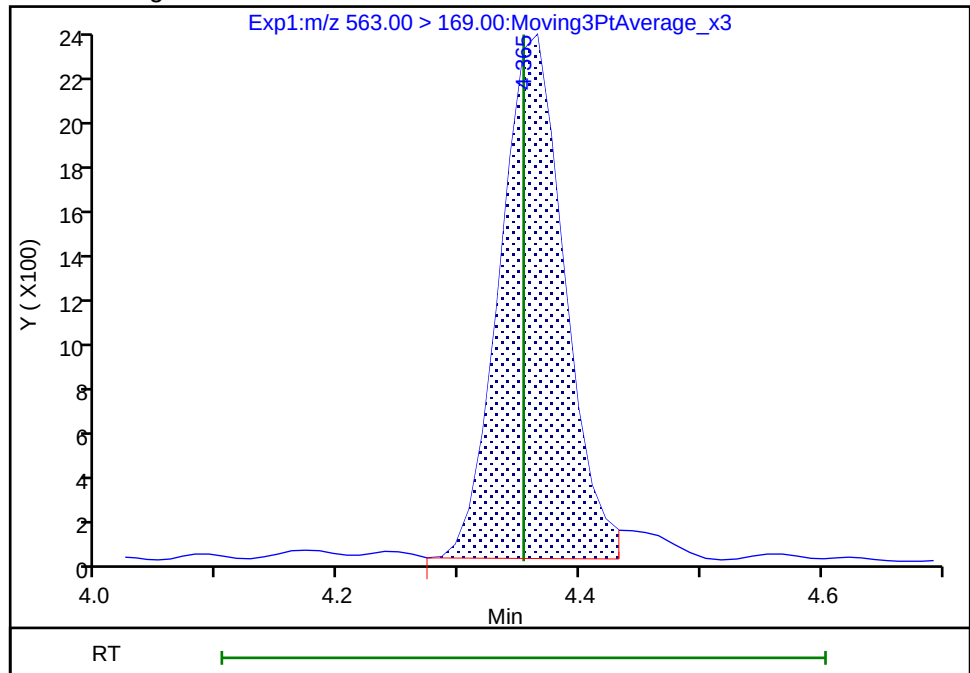
RT: 4.36
Area: 8199
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 8638
Amount: 0.051917
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

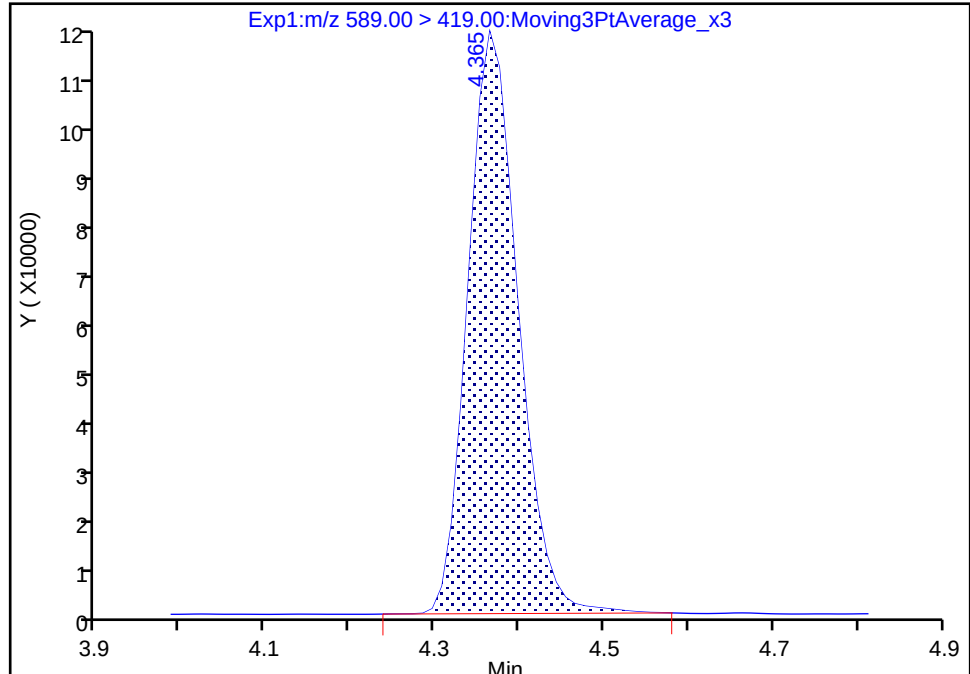
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

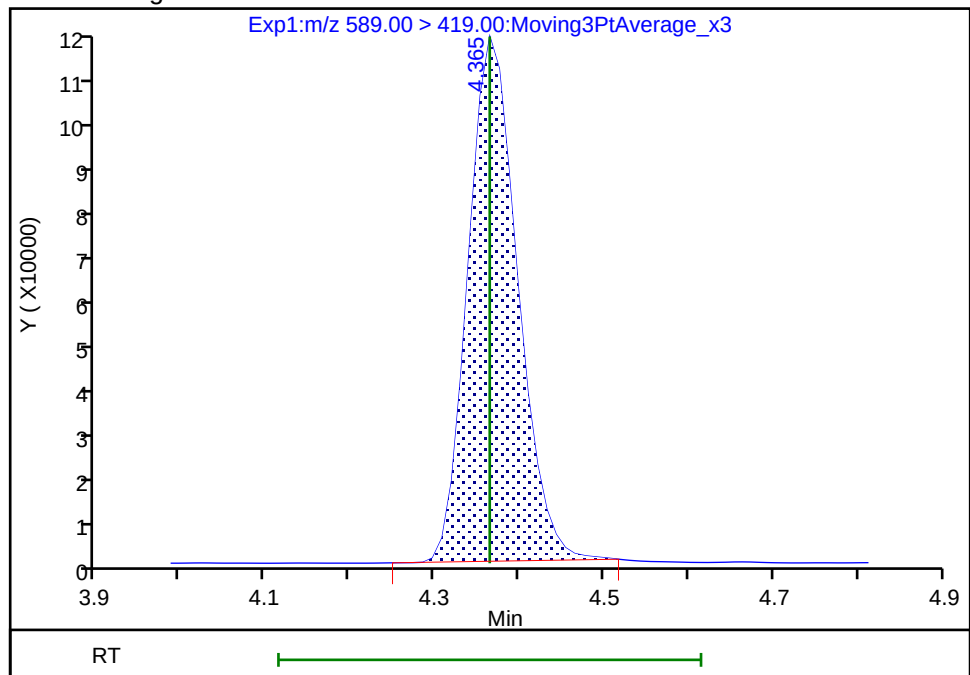
RT: 4.36
Area: 459600
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 453643
Amount: 1.226647
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

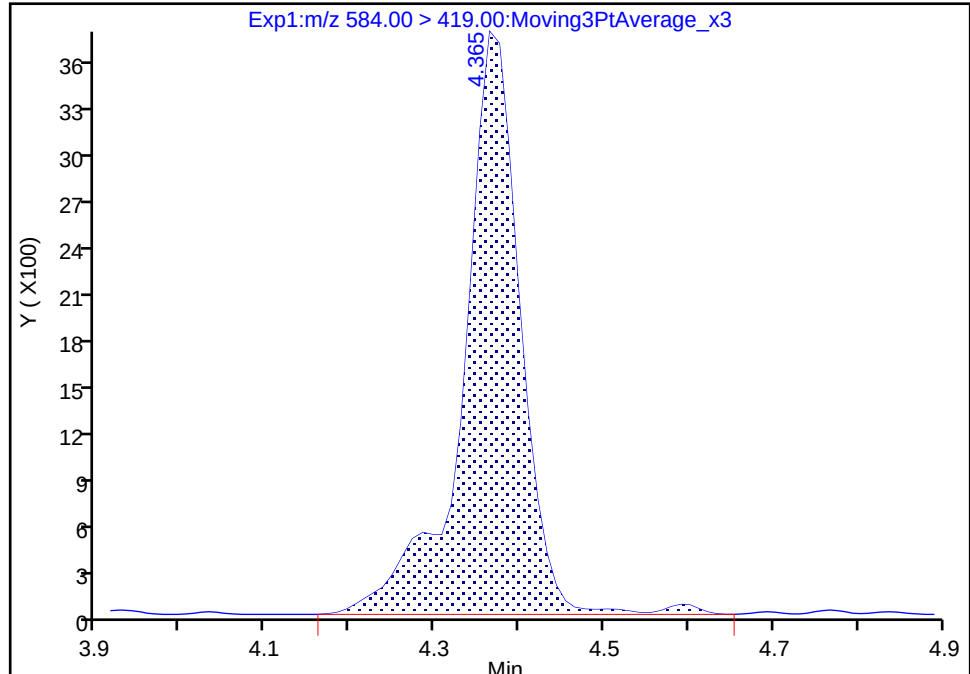
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

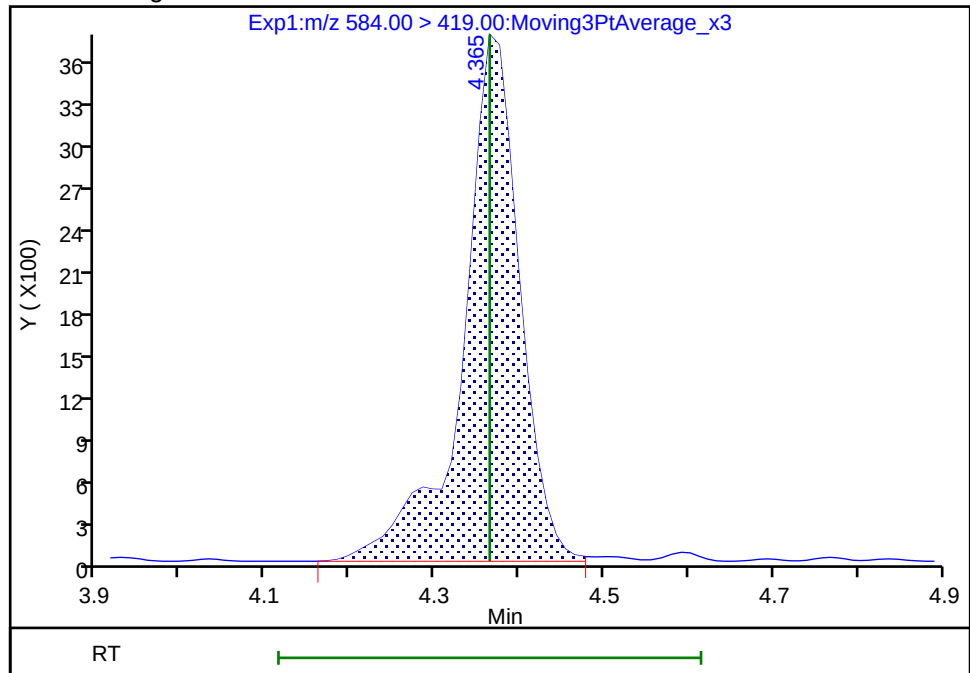
RT: 4.36
Area: 17811
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 17526
Amount: 0.053943
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

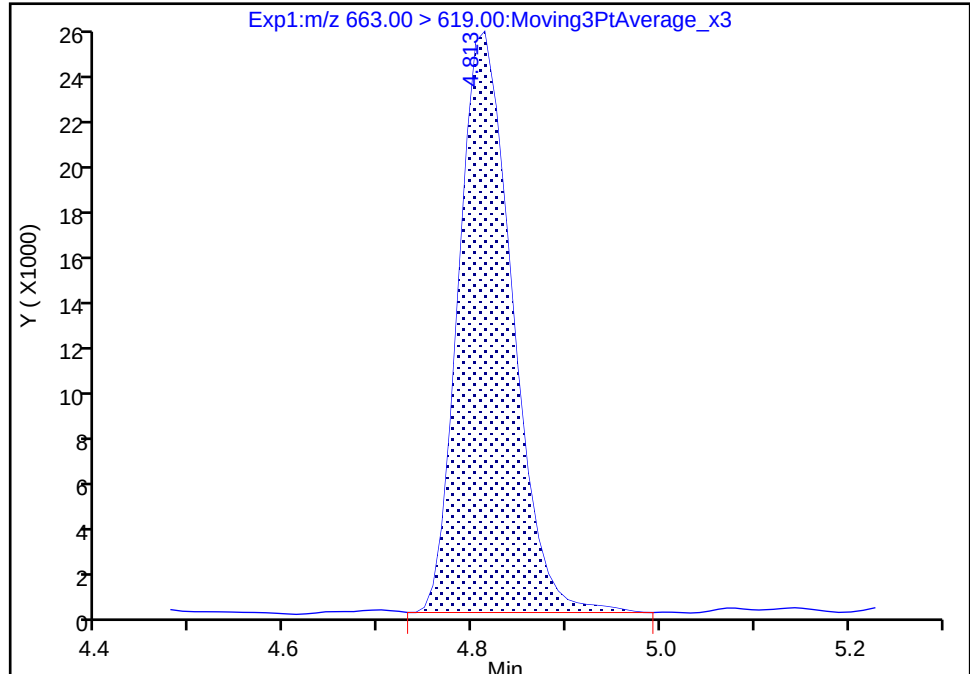
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

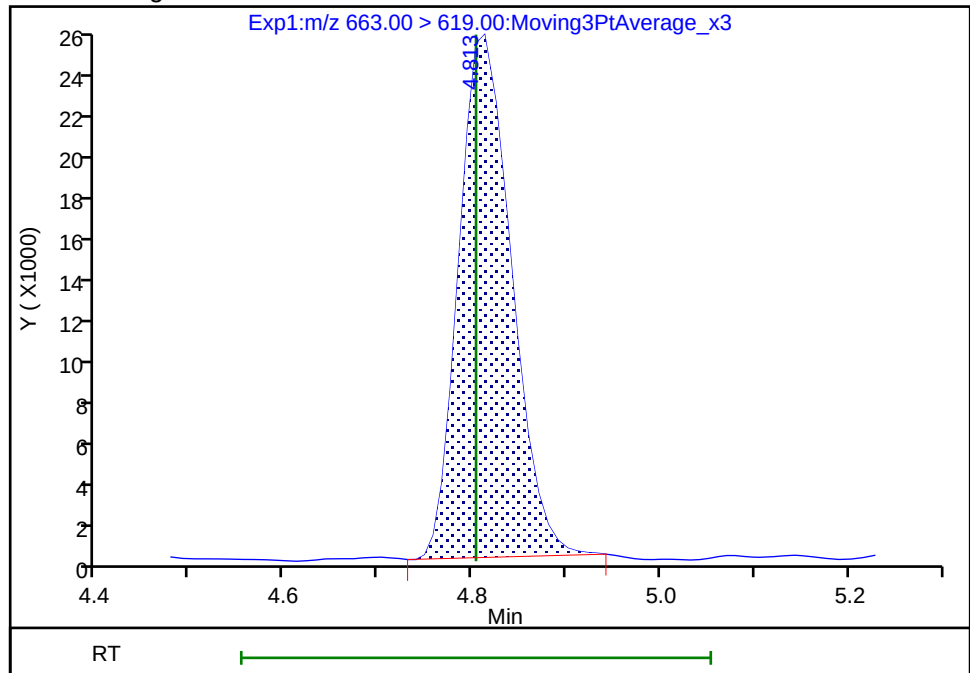
RT: 4.81
Area: 96503
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 94610
Amount: 0.053532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

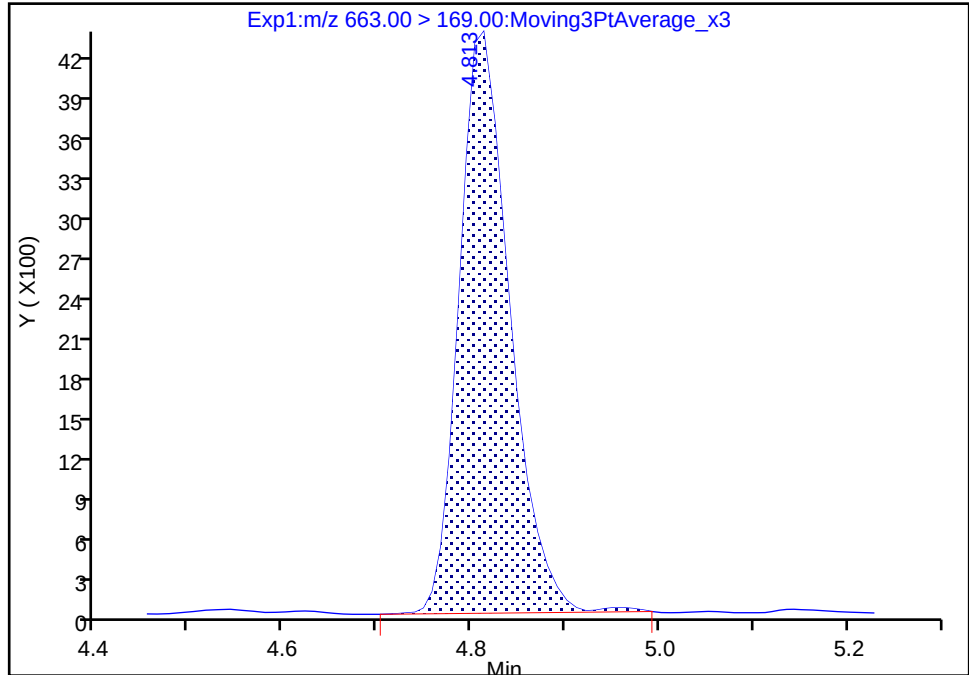
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

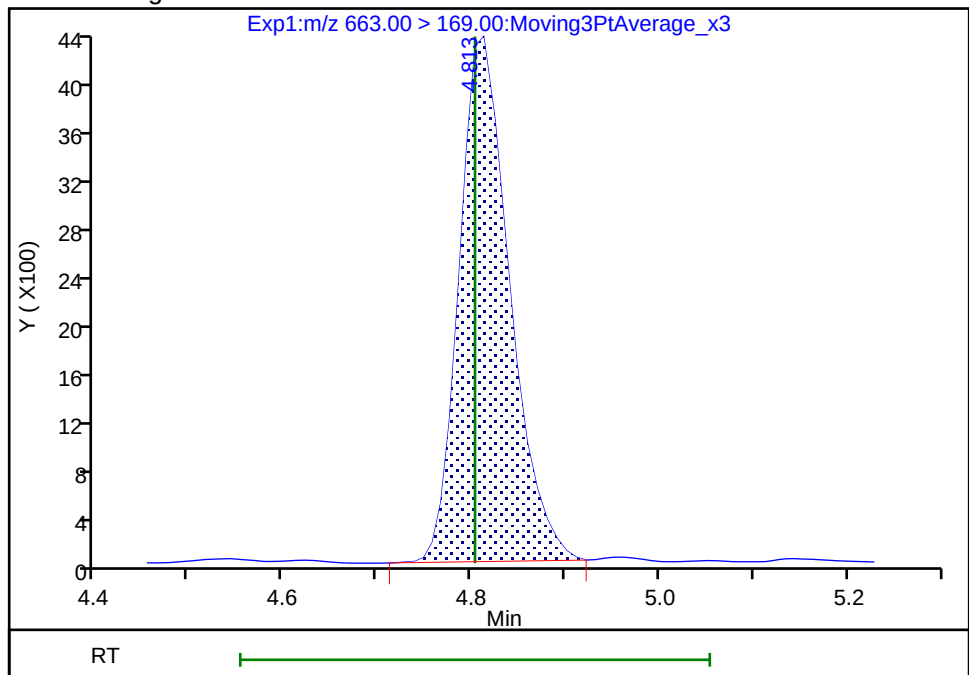
RT: 4.81
Area: 16454
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 16297
Amount: 0.053532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

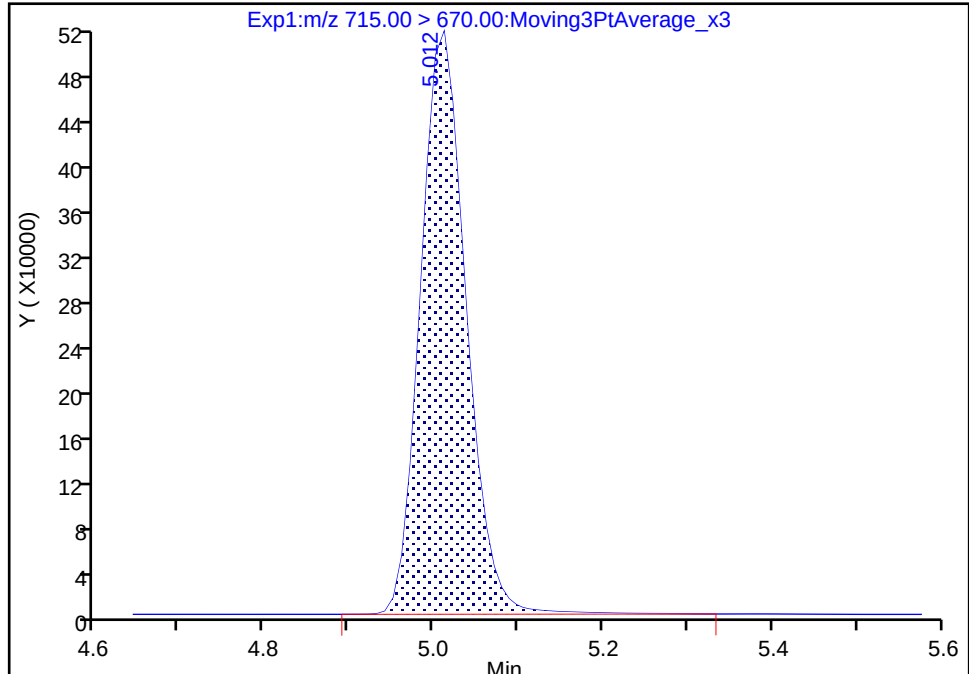
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

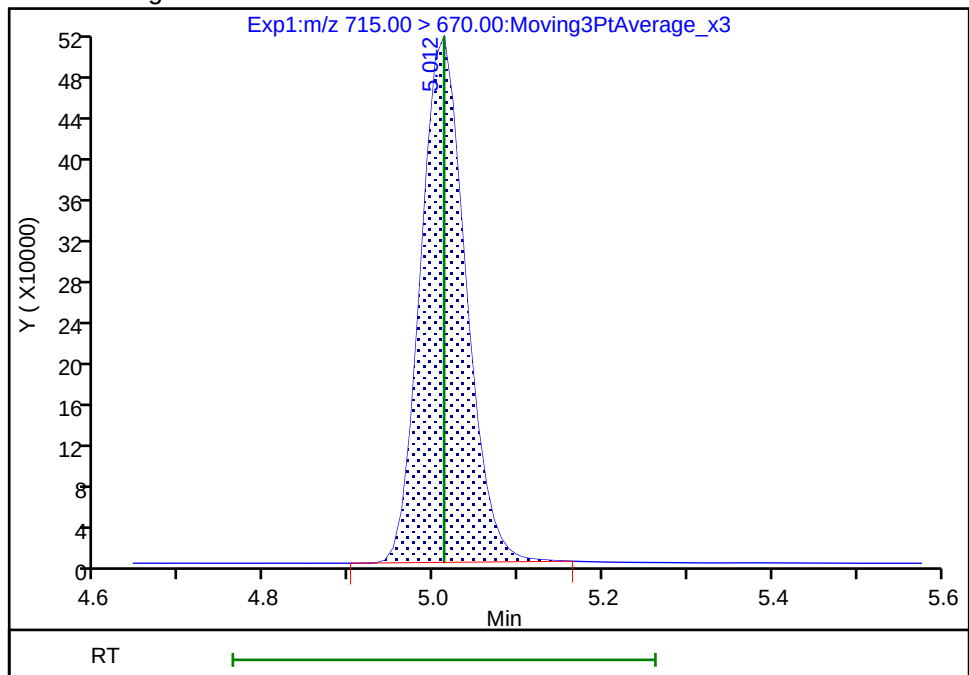
RT: 5.01
Area: 1903053
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1883348
Amount: 1.265294
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

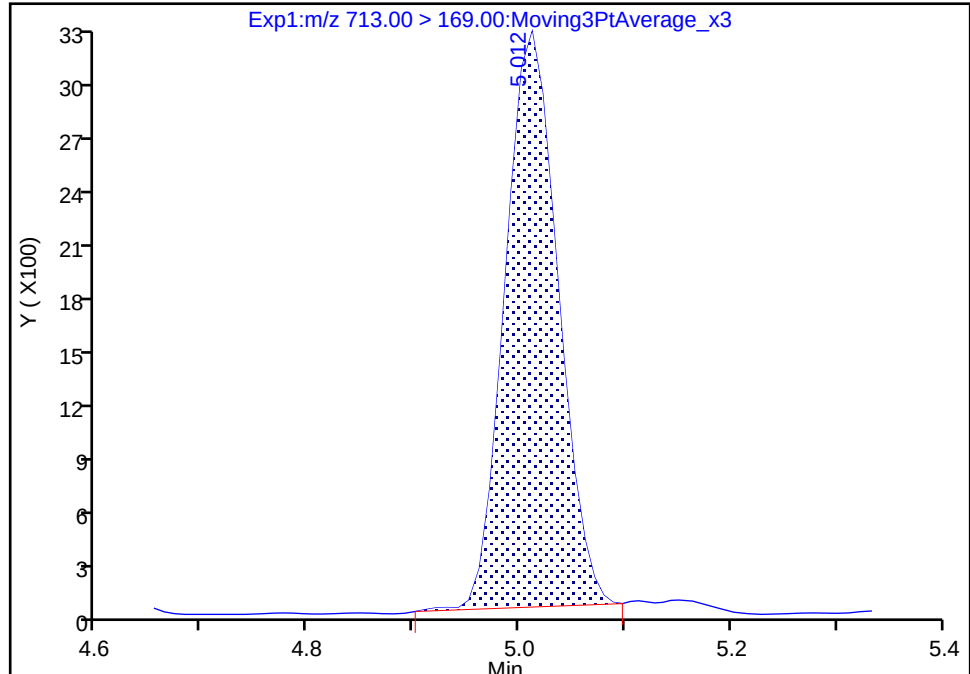
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

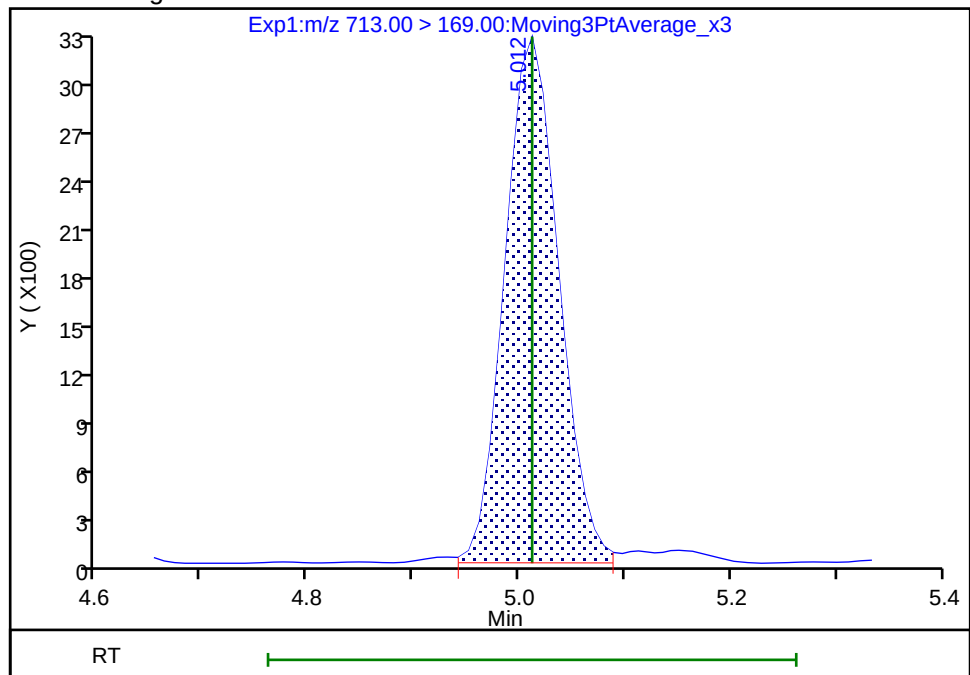
RT: 5.01
Area: 11187
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 11500
Amount: 0.055753
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Nov-2022 14:38:04 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 14:58:14

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	2.076	2.076	0.0	0.602	2583086	1.21		96.9	9408	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	236091	0.1108		111	21.0	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	1926794	1.19		94.9	3850	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	187282	0.1115		111	4.9	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1974243	1.12		96.2	328948	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	183390	0.0944	Target=2.14	107	309	
298.90 > 99.00	2.400	2.400	0.0	1.000	85972		2.13(1.07-3.21)	107	70.2	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	45908	0.0984		105	573	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	176875	1.13		97.1	179	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2057289	1.21		96.7	7228	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	191103	0.1066	Target=13.44	107	38.9	M
313.00 > 119.00	2.737	2.725	0.012	1.004	15417		12.40(6.72-20.15)	107	31.5	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	163879	0.0962	Target=2.98	103	479	
349.00 > 99.00	2.737	2.737	0.0	0.887	57172		2.87(1.49-4.47)	103	155	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	352715	1.17		93.9	2364	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	32429	0.1088		109	149	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.896	1507942	1.17		99.2	4316	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.087	3.088	-0.001	1.000	130263	0.0905	Target=3.57	99.5	182	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	38491		3.38(1.78-5.35)	99.5	56.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.098	3.099	-0.001	0.899	2087570	1.19		95.4	3803	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.098	3.099	-0.001	1.000	194803	0.1071	Target=3.93	107	42.8	
363.00 > 169.00	3.098	3.099	-0.001	1.000	47936		4.06(1.96-5.89)	107	94.2	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	483450	0.1038	Target=3.08	110	566	
377.00 > 85.00	3.132	3.132	0.0	0.832	147632		3.27(1.54-4.62)	110	242	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.439	-0.001	0.997	254748	1.18		99.5	767	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.438	3.439	-0.001	1.000	45963	0.0896		94.5	167	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.438	3.439	-0.001	0.914	121399	0.1028	Target=5.16	108	441	M
449.00 > 99.00	3.438	3.439	-0.001	0.914	23934		5.07(2.58-7.74)	108	110	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.448	-0.002	1.000	2369406	1.20		96.3	3967	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.448	-0.002		2377284	1.25			4122	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.446	3.448	-0.002	1.000	206480	0.1019	Target=2.82	102	15.9	
413.00 > 169.00	3.446	3.448	-0.002	1.000	71984		2.87(1.41-4.23)	102	117	M
D 18 13C4 PFOS										
503.00 > 80.00	3.762	3.764	-0.002	1.092	1010315	1.16		96.9	3177	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.762	3.764	-0.002	1.000	105528	0.1026	Target=5.01	111	19.8	M
499.00 > 99.00	3.762	3.764	-0.002	1.000	20524		5.14(2.50-7.51)	111	18.9	M
D 19 13C5 PFNA										
468.00 > 423.00	3.781	3.783	-0.002	1.097	2362013	1.23		98.8	5871	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.781	3.783	-0.002	1.000	201460	0.1028	Target=8.49	103	42.2	M
463.00 > 169.00	3.781	3.783	-0.002	1.000	23149		8.70(4.25-12.74)	103	158	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.927	3.928	-0.001	1.044	230911	0.0979		105	881	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	79193	0.1020	Target=2.60	106	665	
549.00 > 99.00	4.060	4.050	0.010	1.079	30661		2.58(1.30-3.90)	106	228	
D 23 13C2 PFDA										M
515.00 > 470.00	4.081	4.081	0.0	1.184	2439344	1.25		100	2392	M

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	4.081	4.081	0.0	1.000	217999	0.1030	Target=10.03	103	91.5	
513.00 > 169.00	4.081	4.081	0.0	1.000	22750		9.58(5.02-15.05)	103	49.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.093	-0.001	1.187	307241	1.16		97.3	979	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.093	-0.001	1.000	41049	0.0989		103	314	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	172977	0.1090		109	454	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1899612	1.19		95.1	1746	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.227	478399	1.21		96.4	1389	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.228	0.010	1.002	34156	0.0921		92.1	69.3	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	60768	0.0992	Target=2.58	103	528	
599.00 > 99.00	4.319	4.331	-0.012	1.148	26777		2.27(1.29-3.86)	103	451	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	176444	0.1033	Target=10.10	103	79.0	M
563.00 > 169.00	4.353	4.353	0.0	1.000	17359		10.16(5.05-15.15)	103	193	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2119319	1.19		95.0	2896	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	-0.001	1.000	36650	0.1062		106	294	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	-0.001	1.266	481823	1.23		98.6	823	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.184	370183	0.1018		108	942	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	194829	0.1069	Target=7.41	107	14.3	M
613.00 > 169.00	4.591	4.591	0.0	1.000	26866		7.25(3.70-11.11)	107	229	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2150435	1.18		94.6	2247	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	24005	0.0963		99.9	288	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	26552	0.1024	Target=0.51	106	356	M
699.00 > 99.00	4.776	4.776	0.0	1.269	51408		0.52(0.25-0.76)	106	502	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.803	4.804	-0.001	1.046	189059	0.1085	Target=5.40	108	14.6	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	34380		5.50(2.70-8.10)	108	228	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	21567	0.1016	Target=0.90	102	213	
713.00 > 219.00	5.002	5.012	-0.010	0.998	23639		0.91(0.45-1.35)	102	321	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	1938056	1.23		98.6	1755	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.366	5.367	-0.001	1.557	2401907	1.24		98.8	4376	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.366	5.367	-0.001	1.000	206119	0.0996	Target=5.85	99.6	19.0	
813.00 > 169.00	5.366	5.367	-0.001	1.000	34091		6.05(2.93-8.78)	99.6	238	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.722	0.0	1.066	159361	0.1007	Target=6.30	101	19.9	M
913.00 > 169.00	5.722	5.722	0.0	1.066	24213		6.58(3.15-9.46)	101	250	M

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\20221118-53396.b\PA221118ICAL06.d

Injection Date: 18-Nov-2022 14:38:04

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

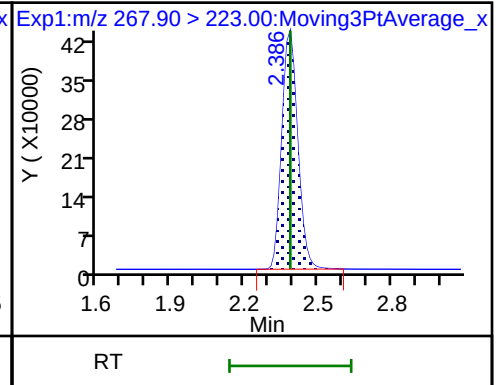
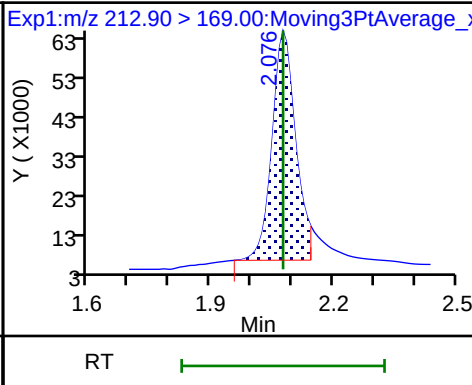
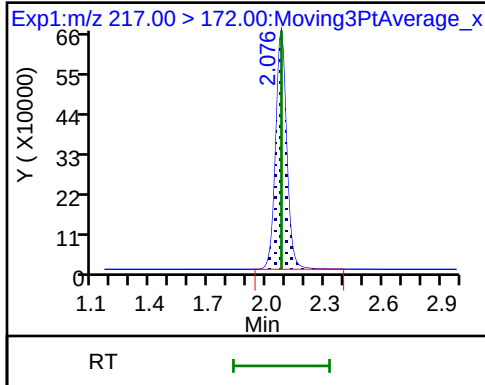
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

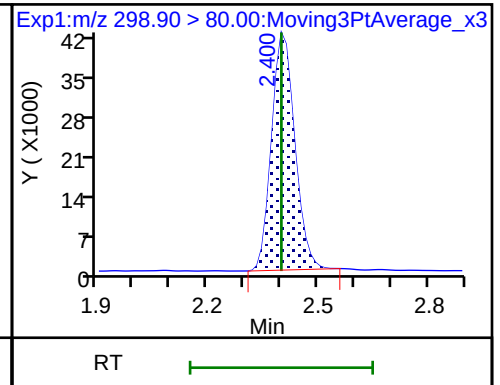
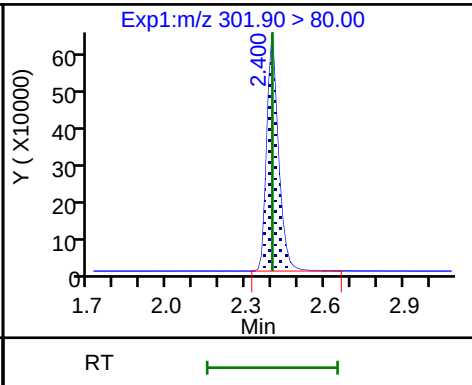
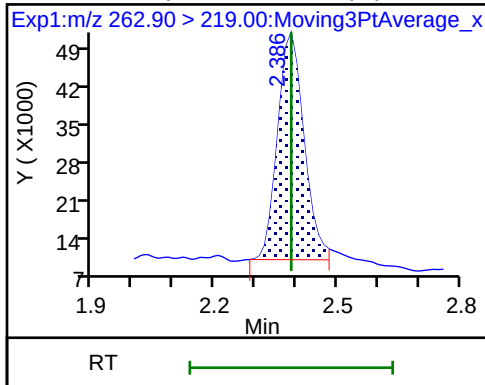
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

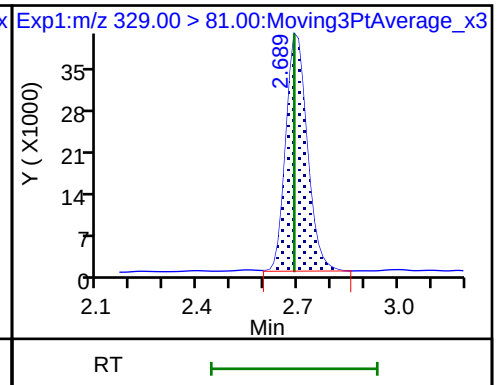
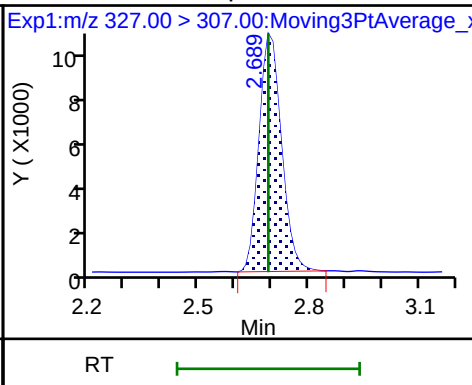
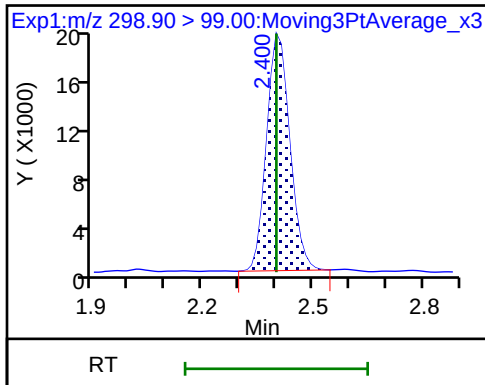
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

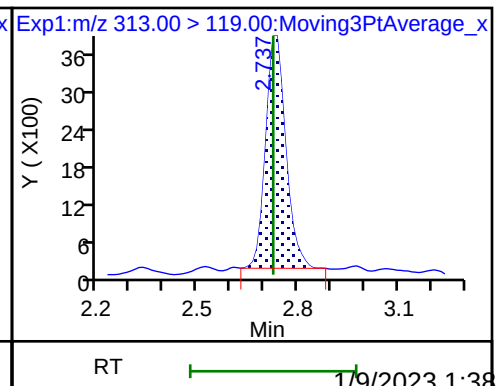
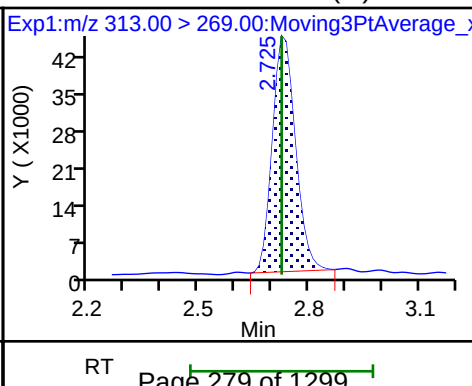
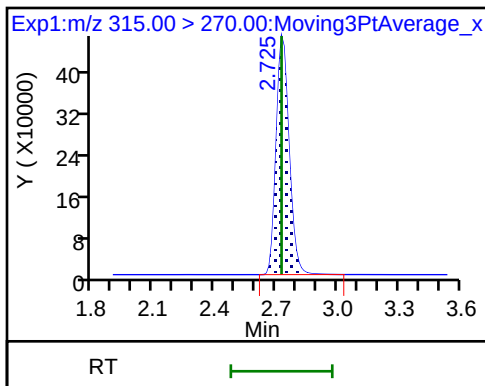
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

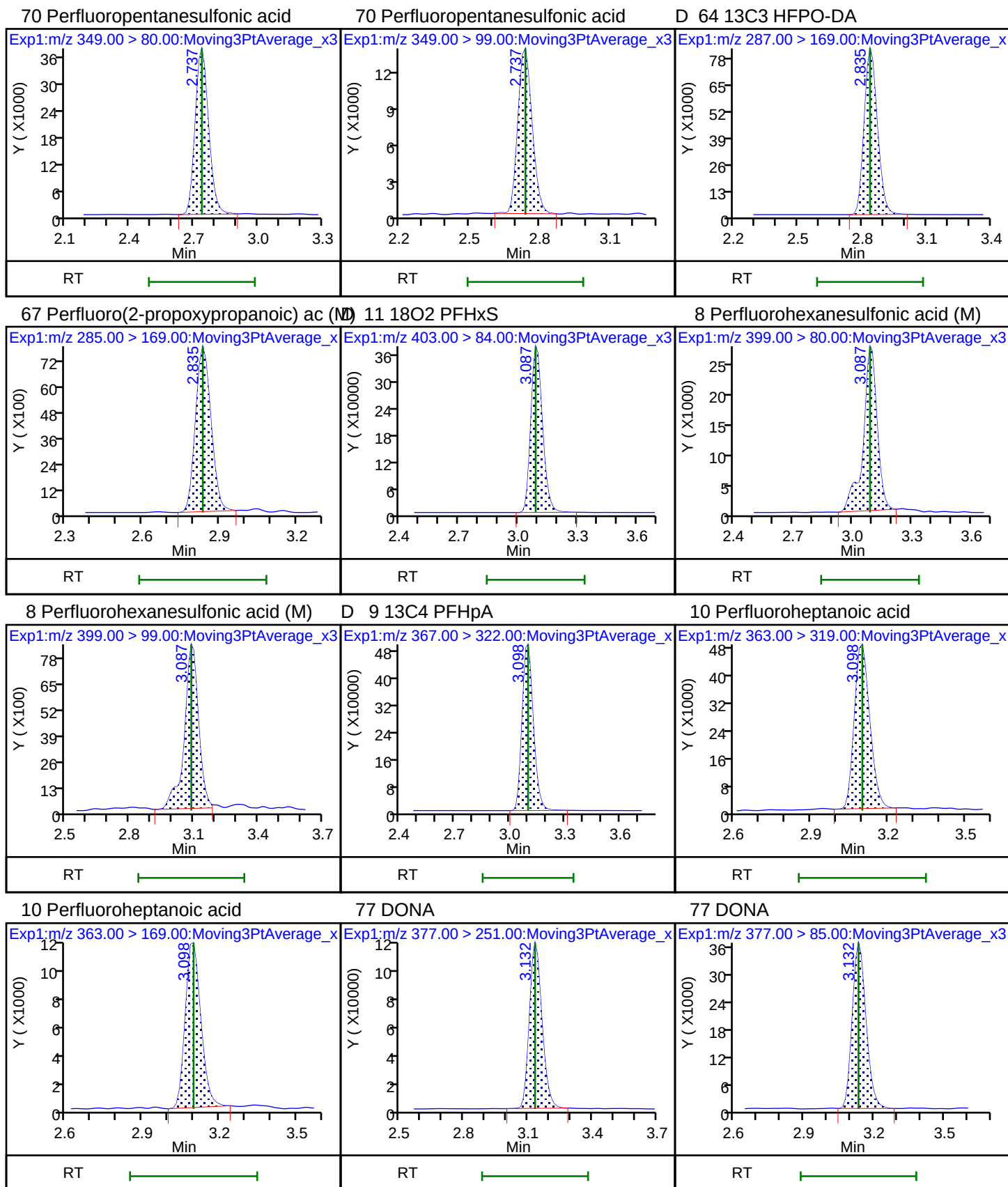


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

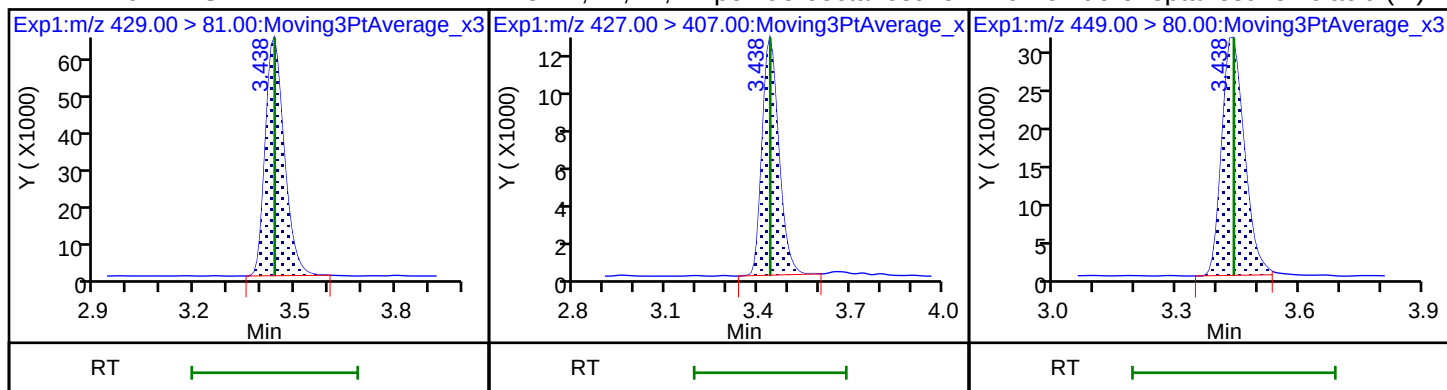




D 12 M2-6:2 FTS

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

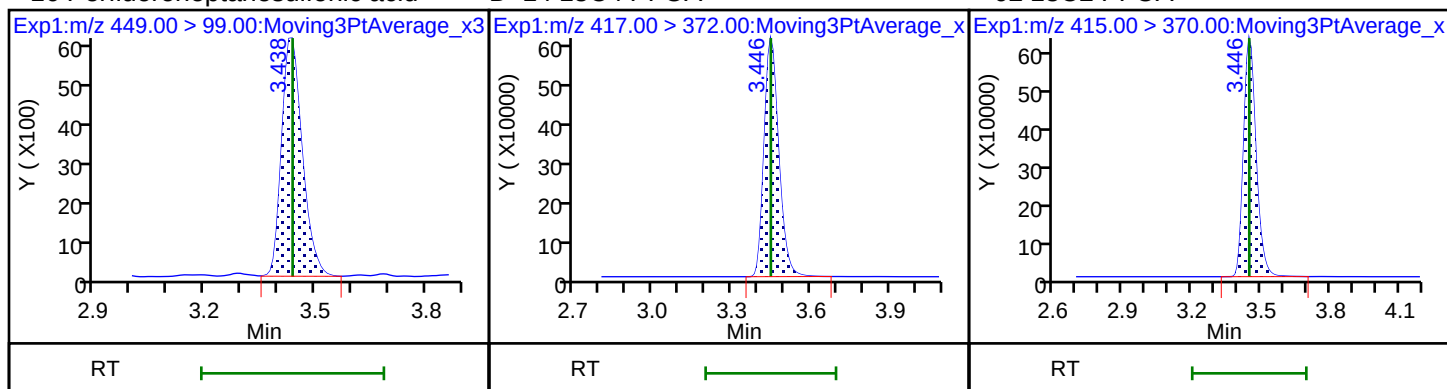
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

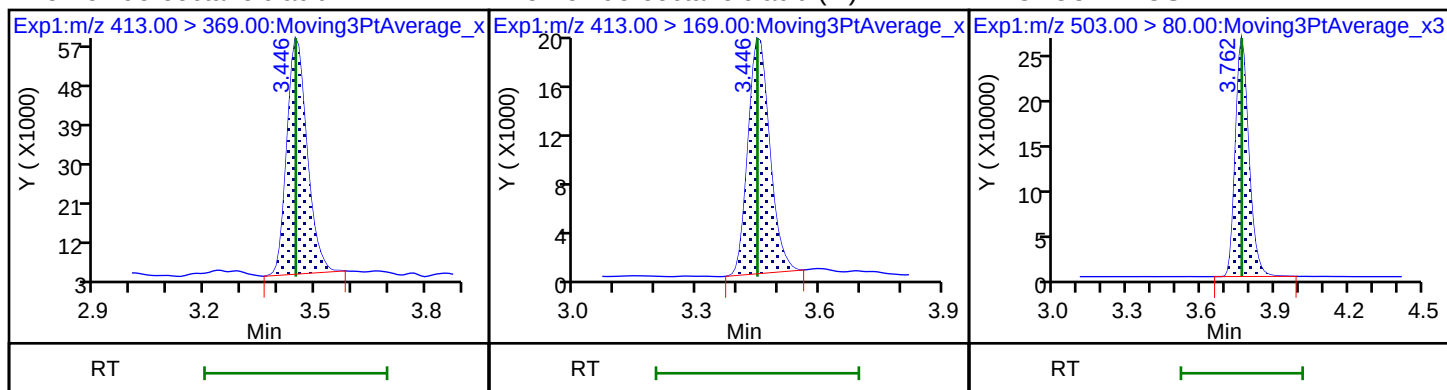
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

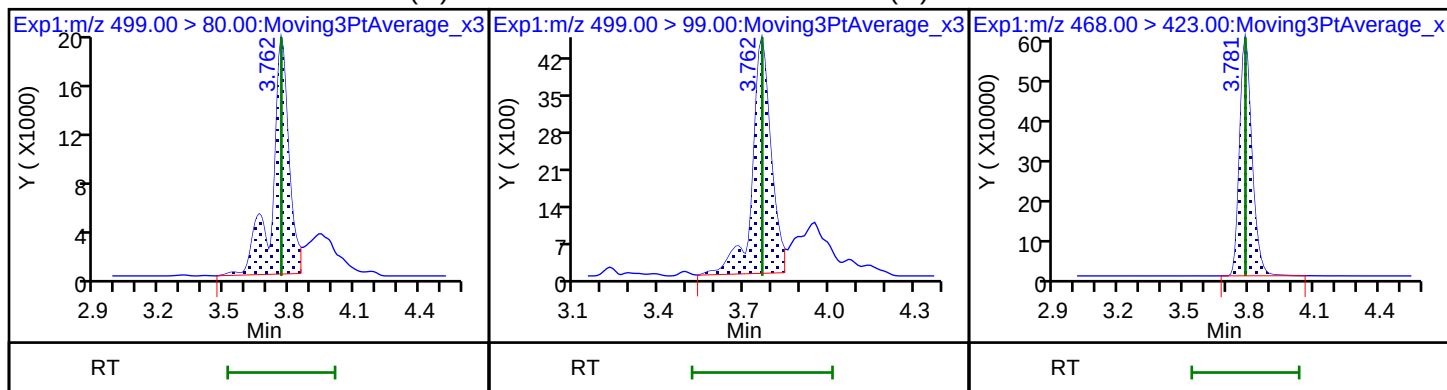
D 18 13C4 PFOS

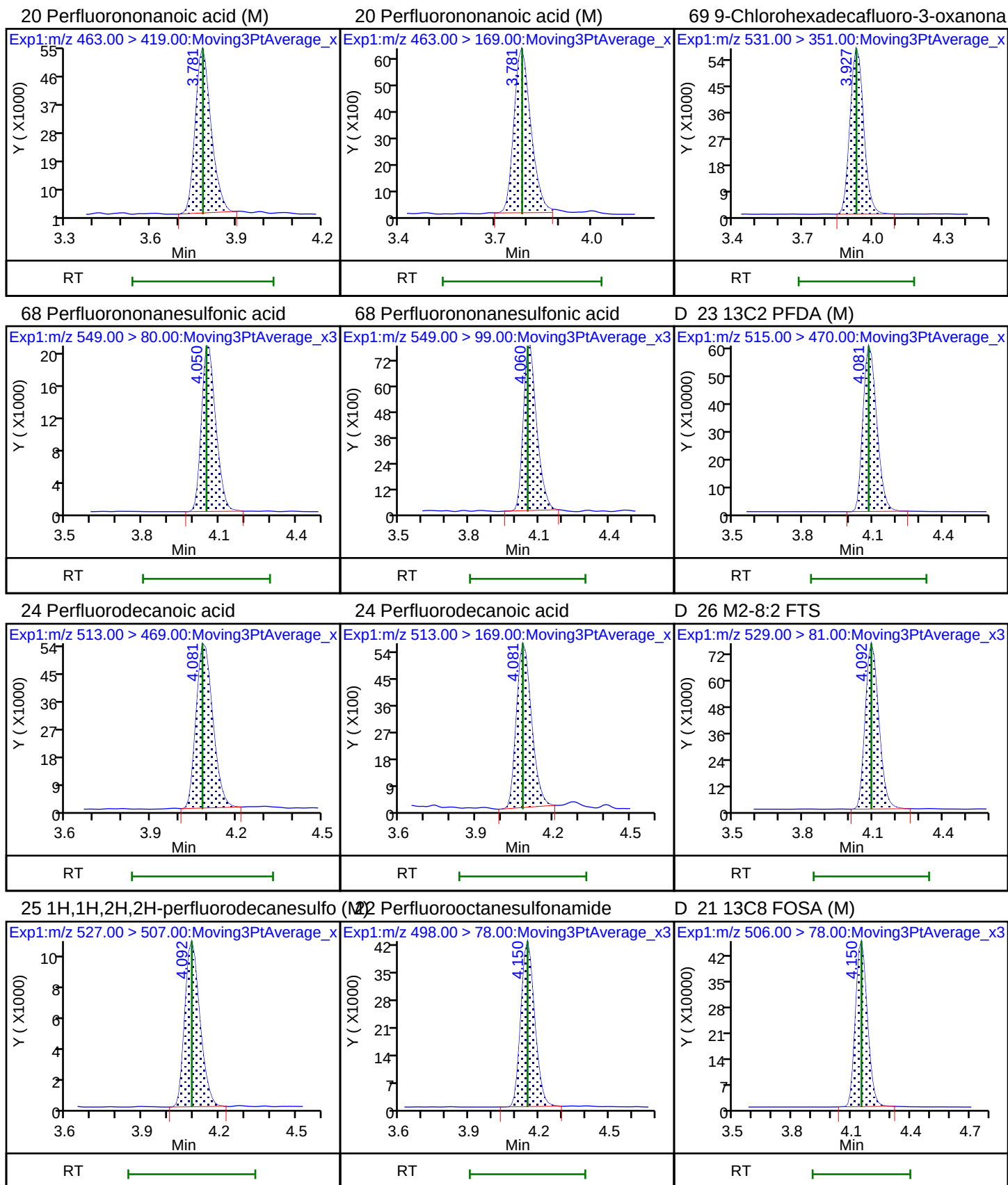


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

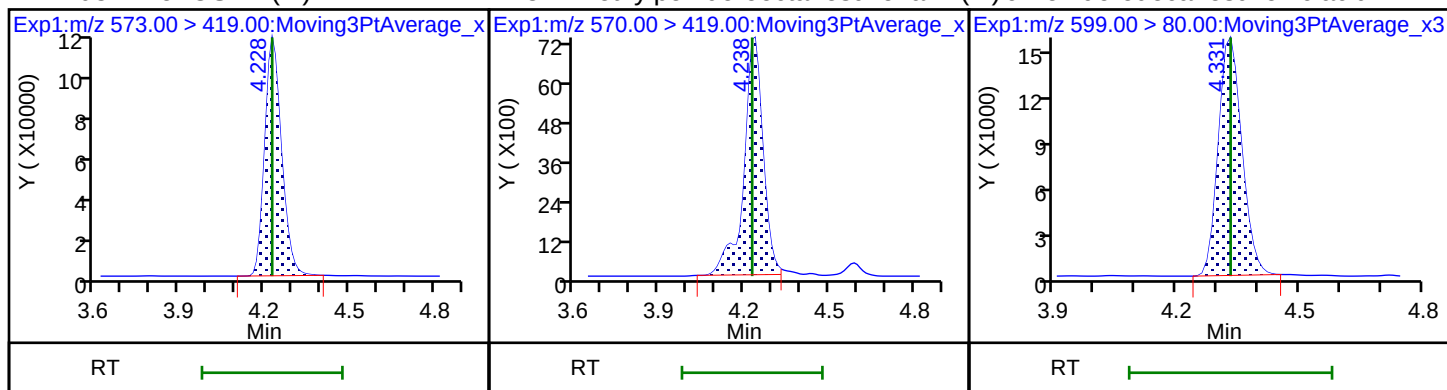




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

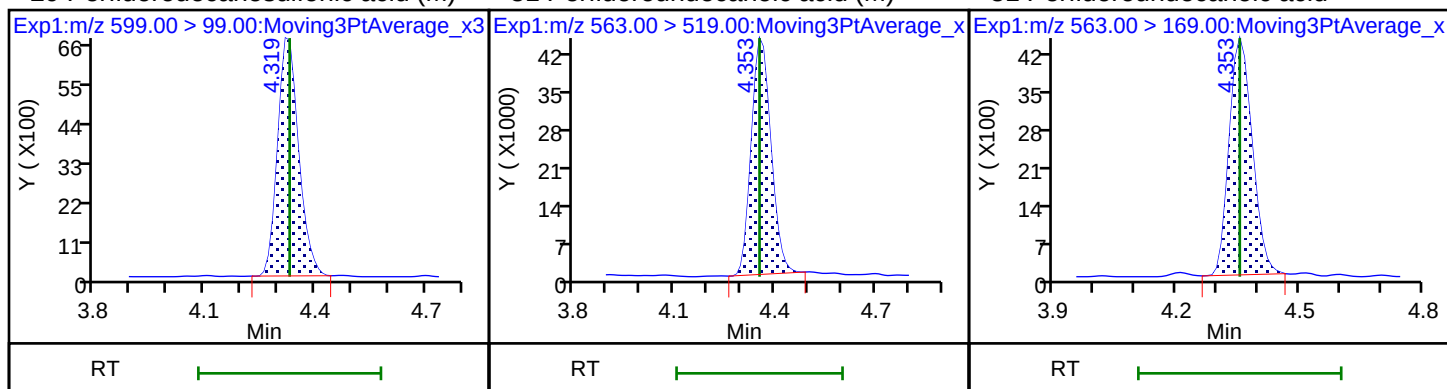
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

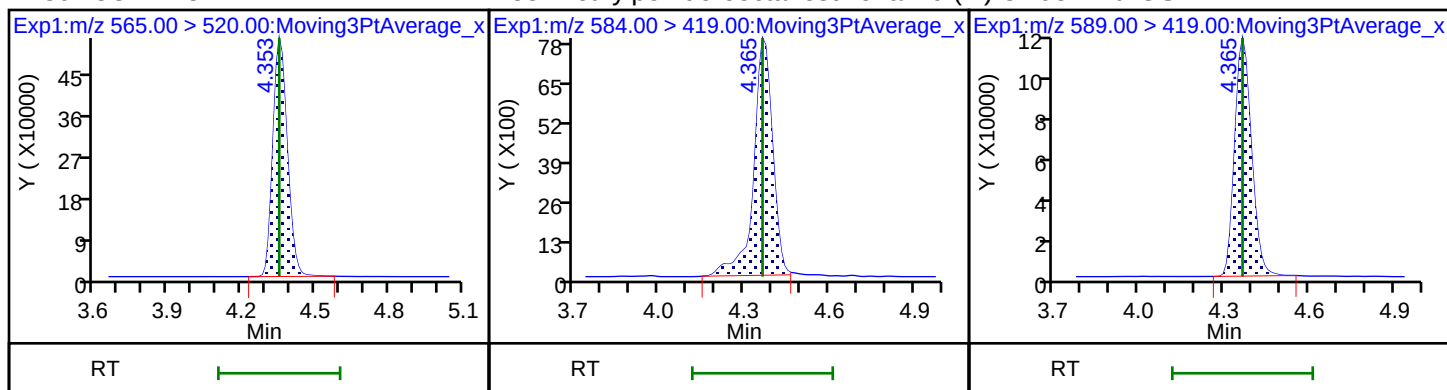
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M)

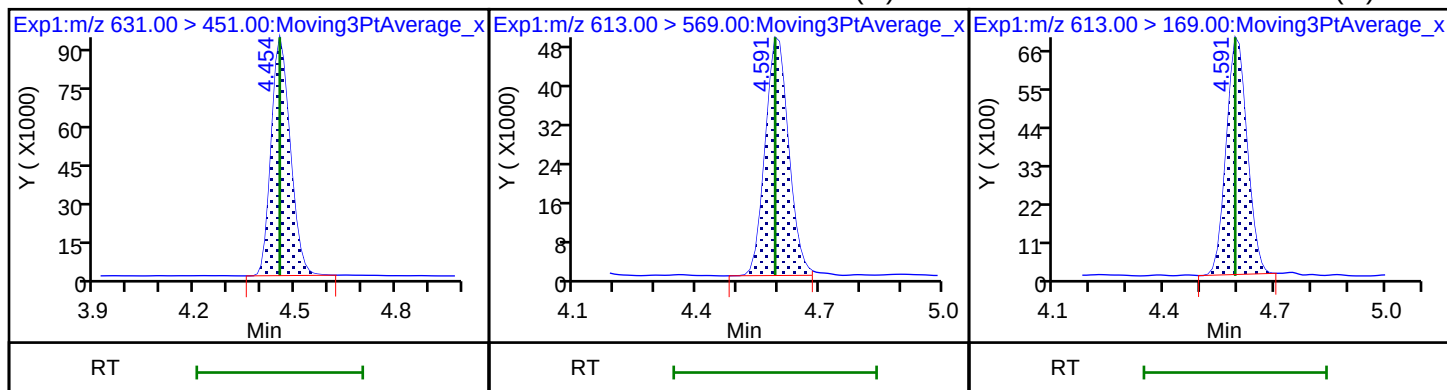
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

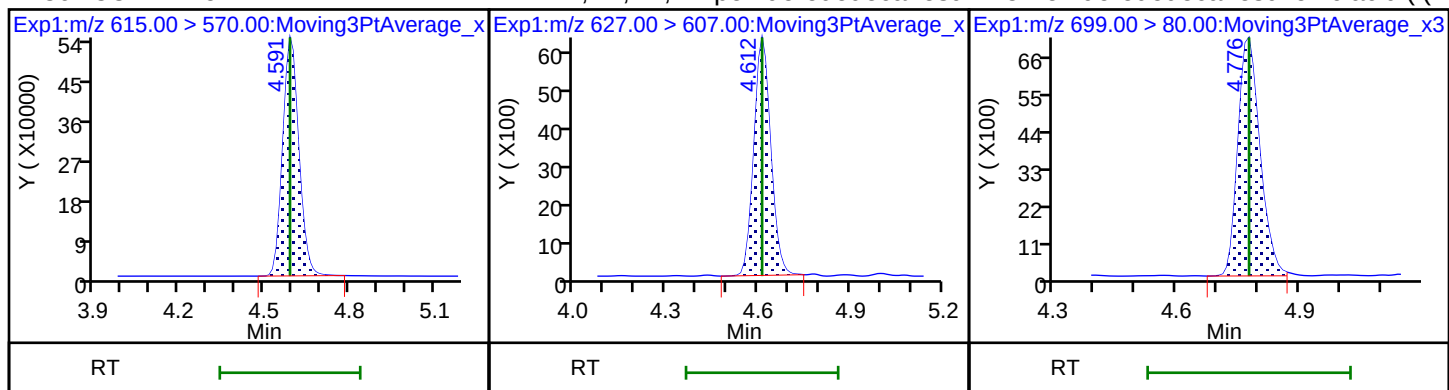
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



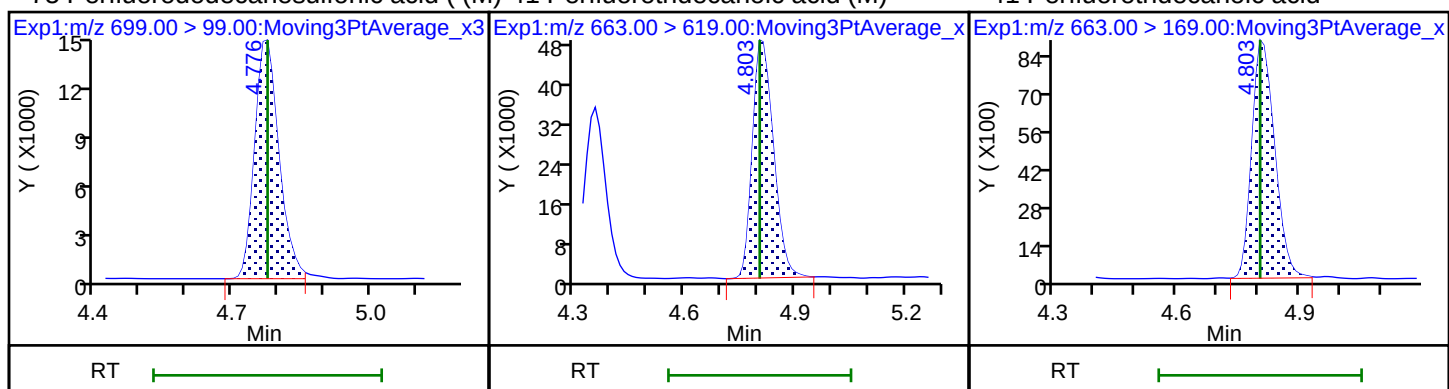
D 36 13C2 PFD0A

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



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)

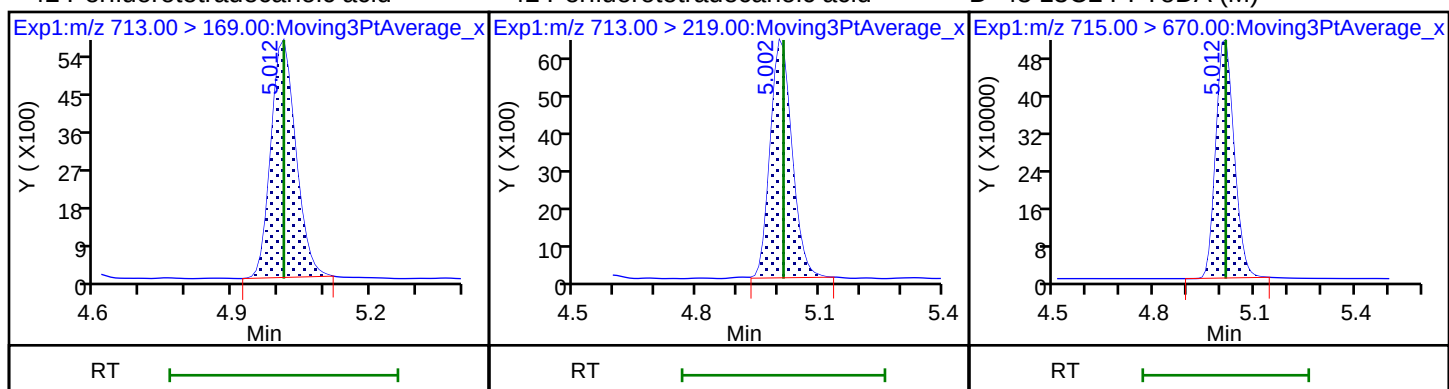
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

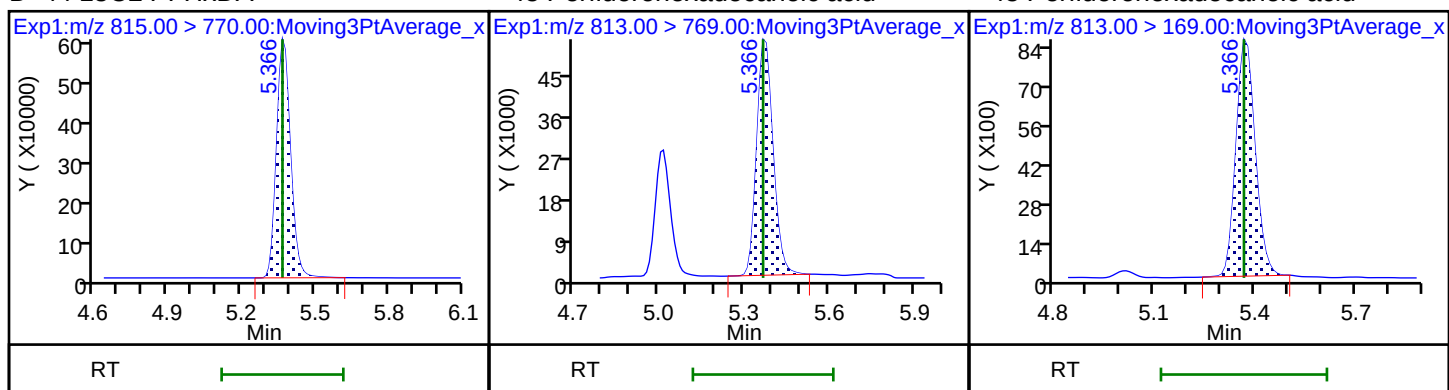
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA

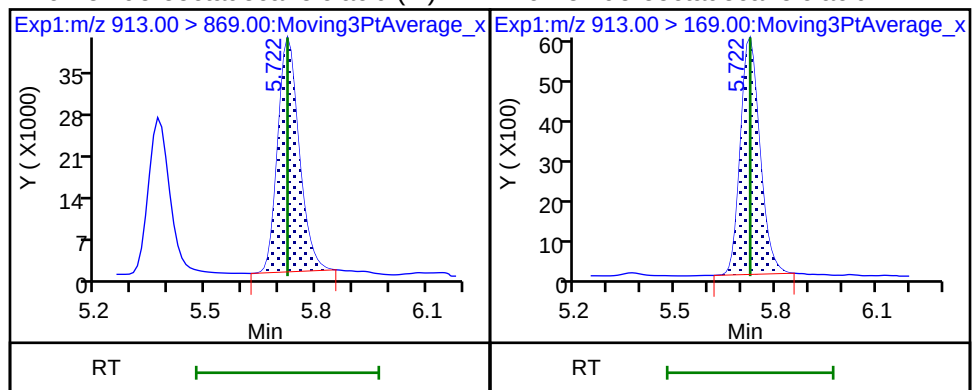
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

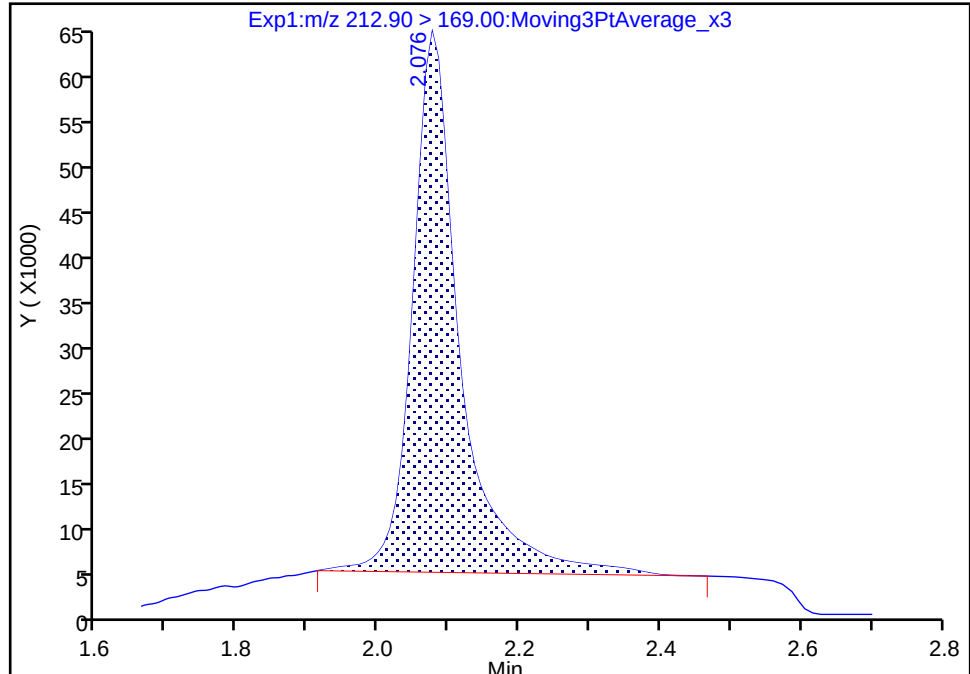
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

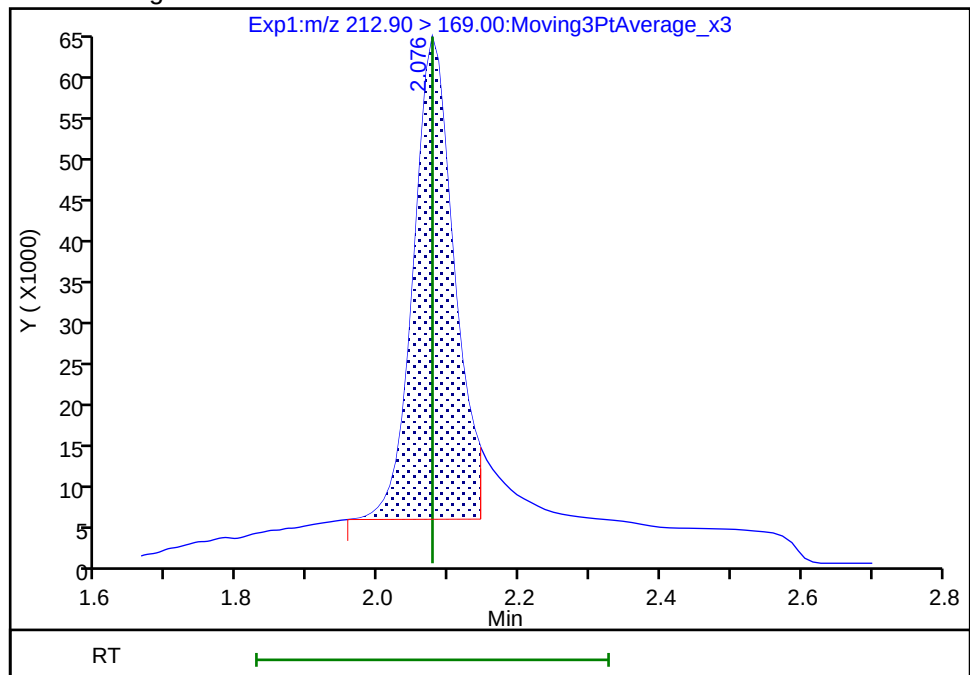
RT: 2.08
Area: 280853
Amount: 0.108572
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 236091
Amount: 0.110792
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

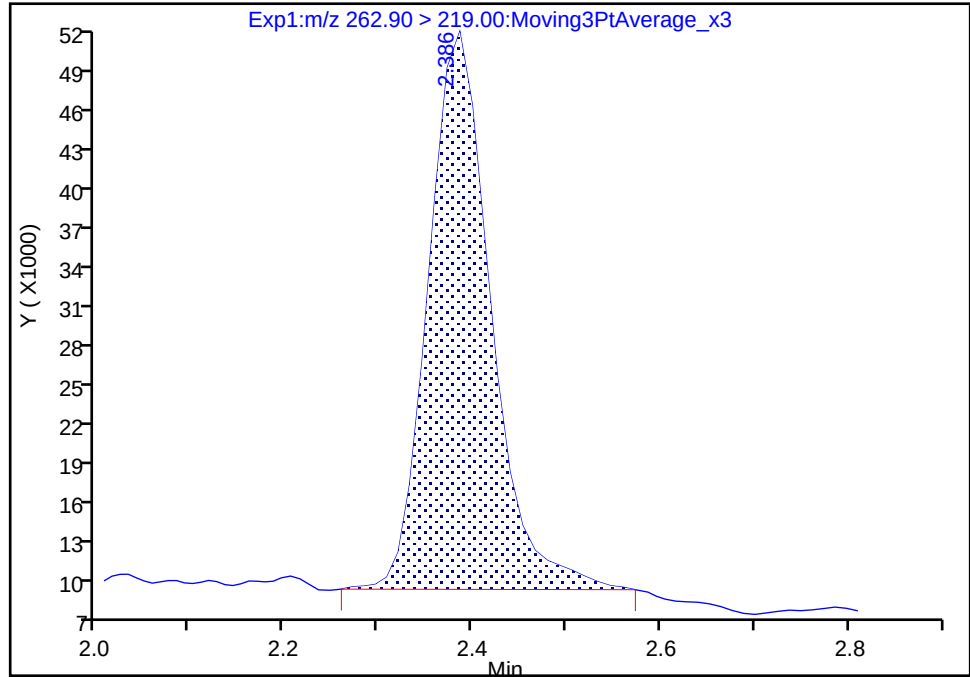
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Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

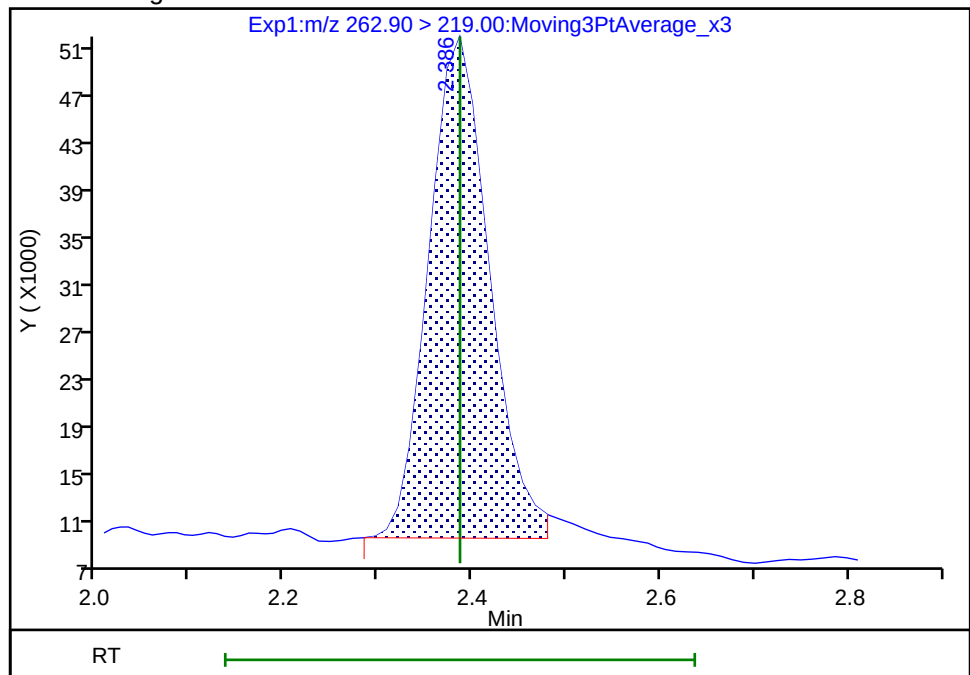
RT: 2.39
Area: 195135
Amount: 0.103655
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 187282
Amount: 0.111484
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

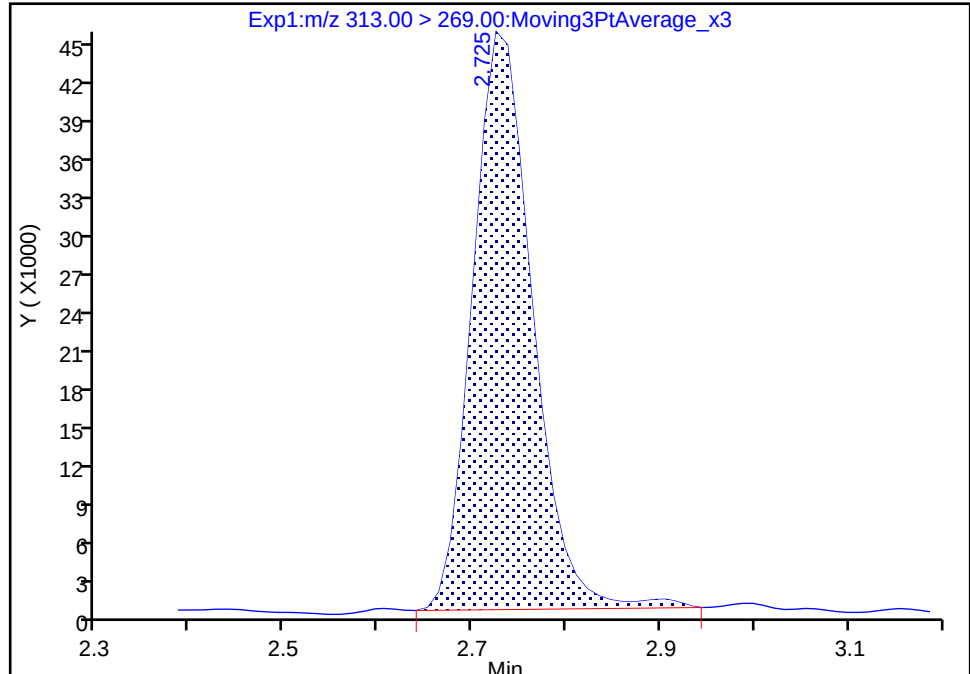
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

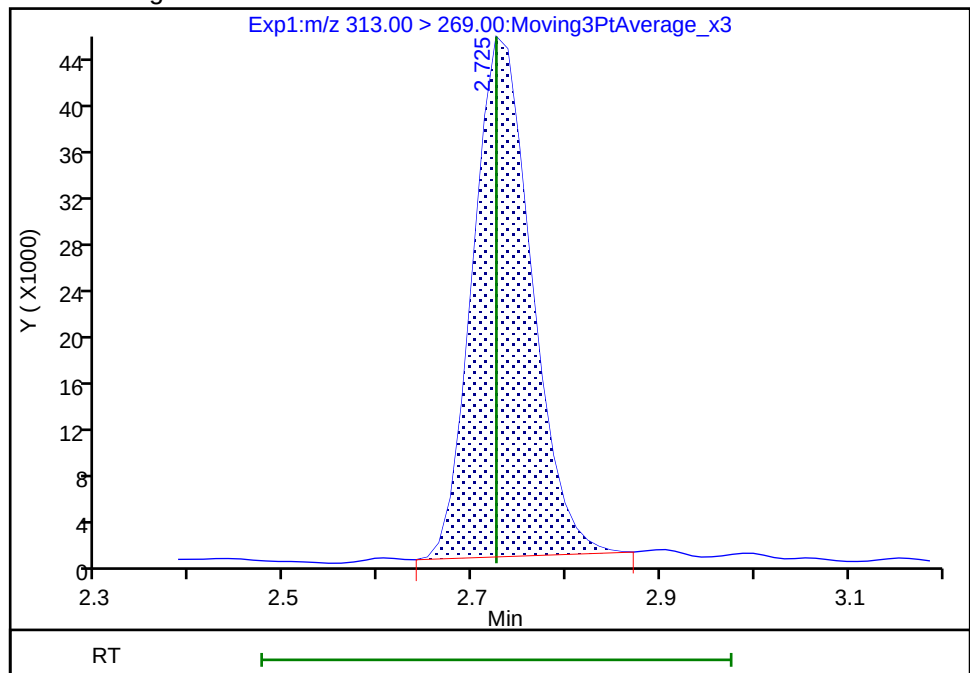
RT: 2.73
Area: 196336
Amount: 0.100921
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 191103
Amount: 0.106564
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

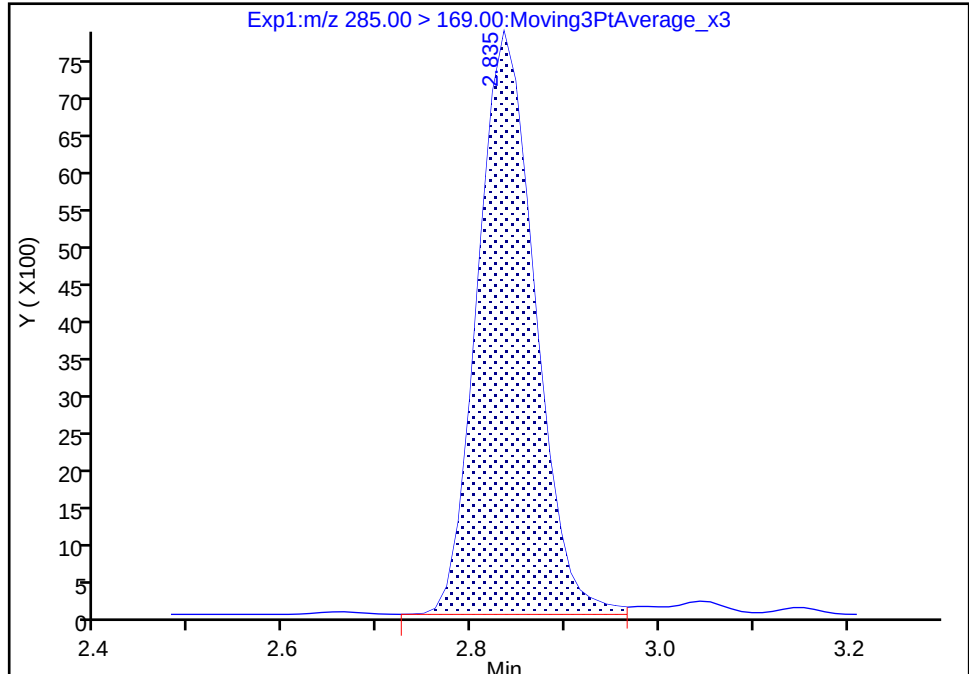
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

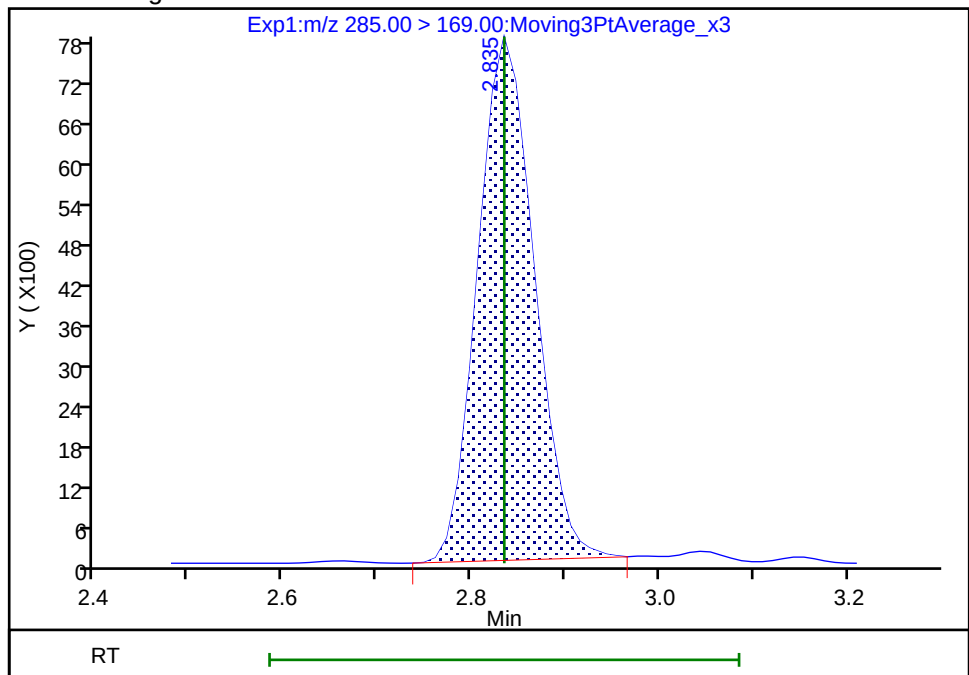
RT: 2.83
Area: 33101
Amount: 0.103414
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 32429
Amount: 0.108840
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

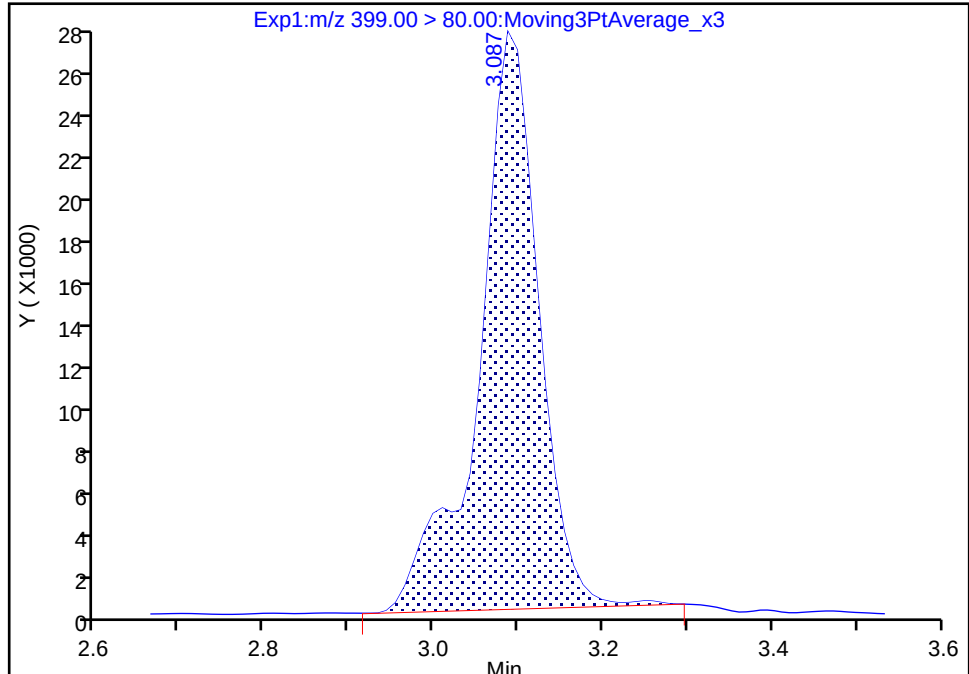
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

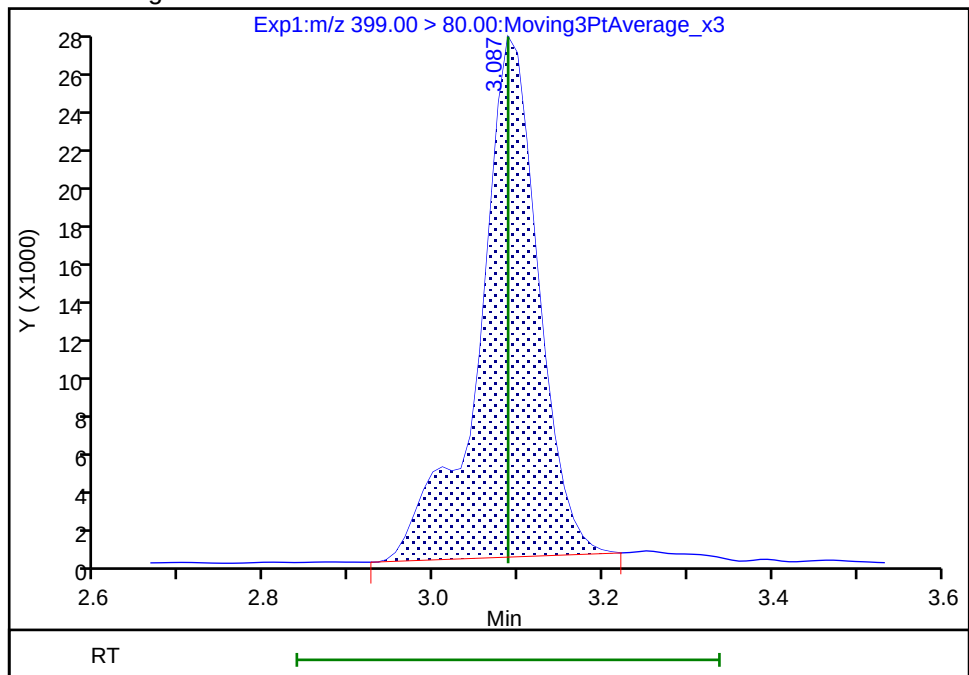
RT: 3.09
Area: 132173
Amount: 0.088001
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 130263
Amount: 0.090506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

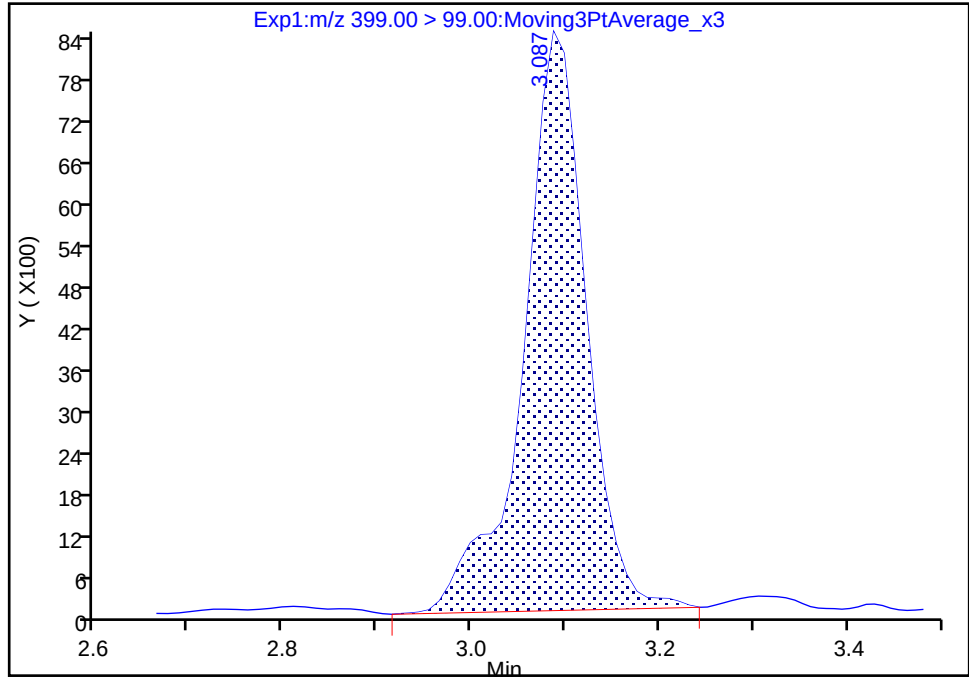
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

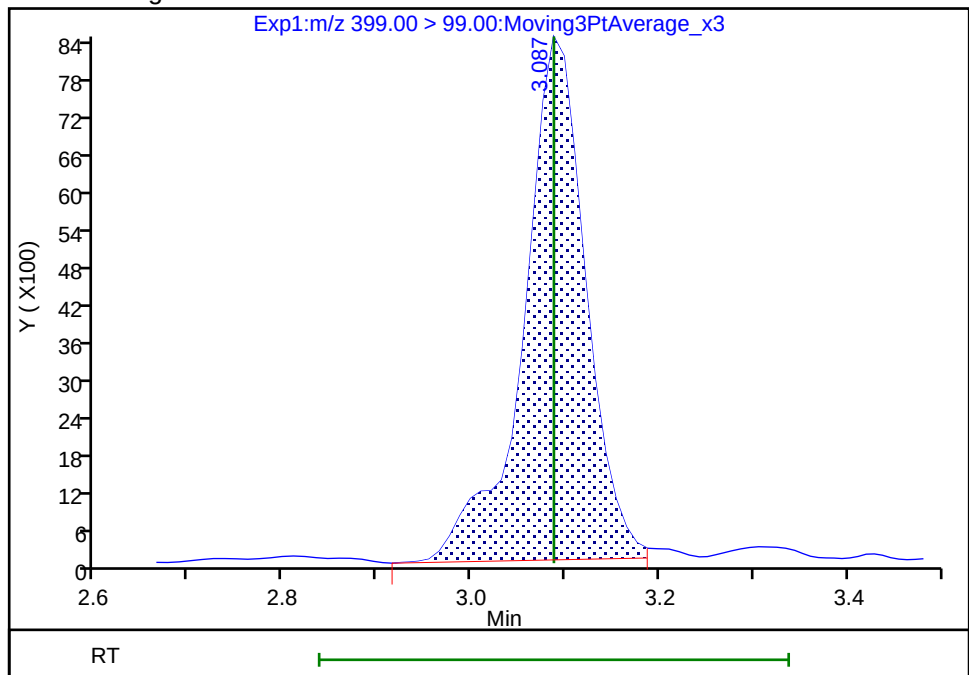
RT: 3.09
Area: 38807
Amount: 0.088001
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 38491
Amount: 0.090506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

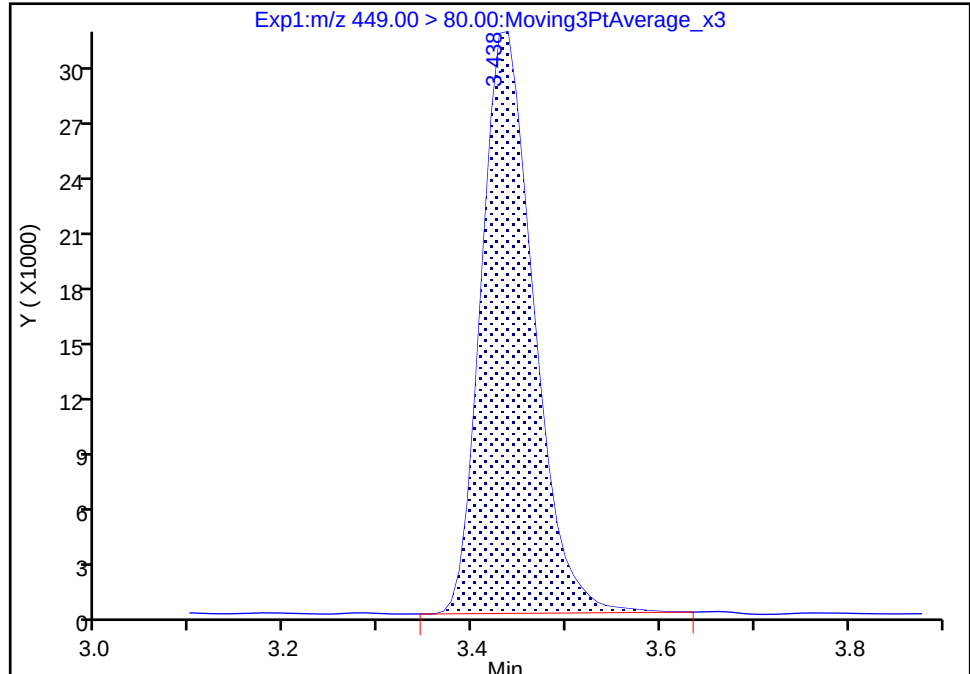
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

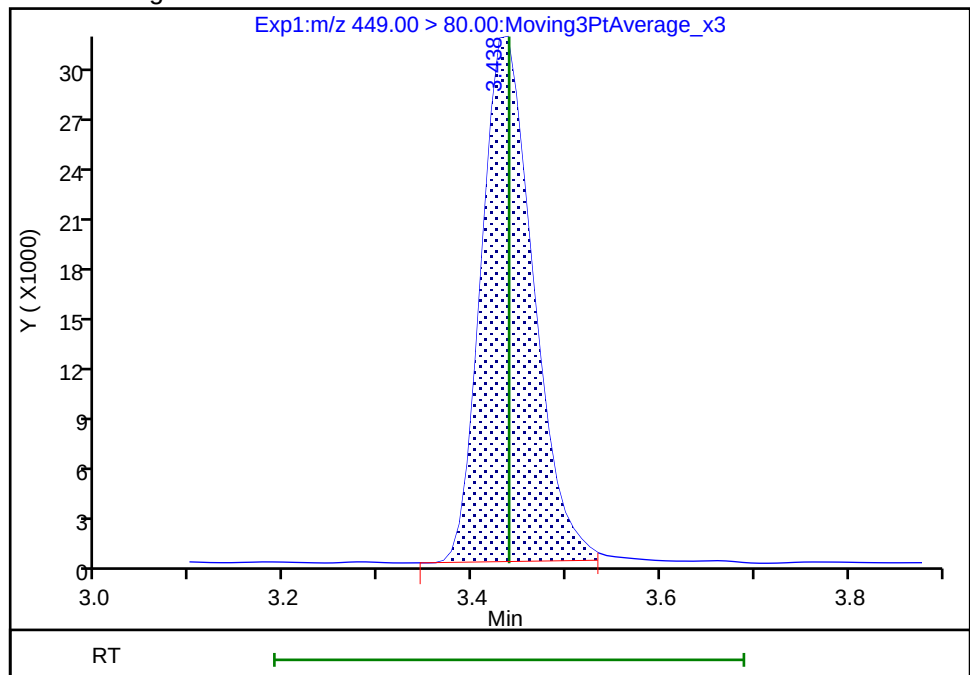
RT: 3.44
Area: 122929
Amount: 0.097560
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 121399
Amount: 0.102806
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

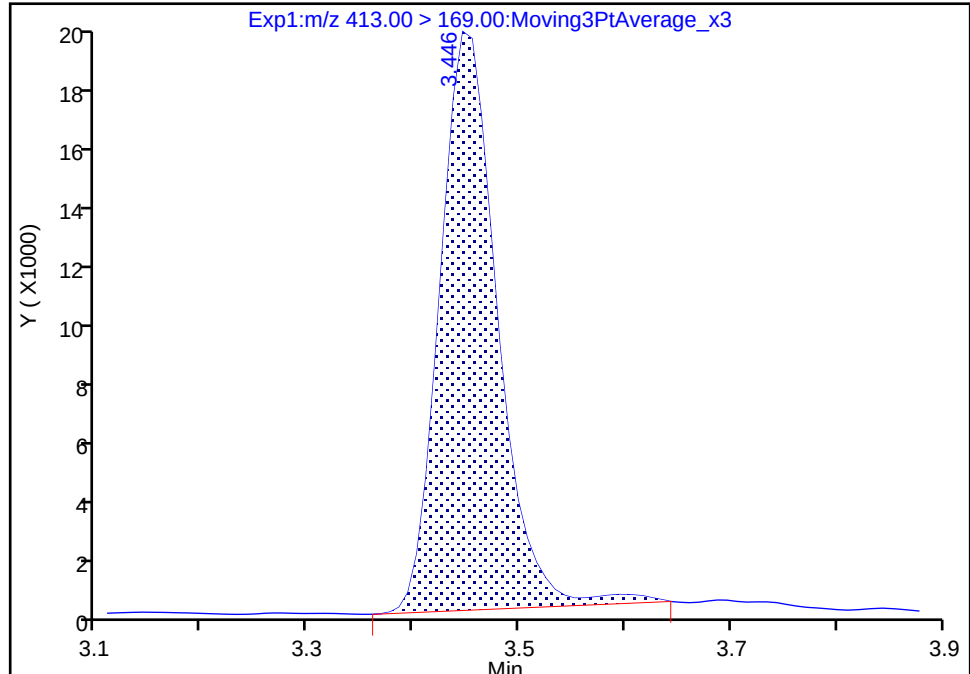
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

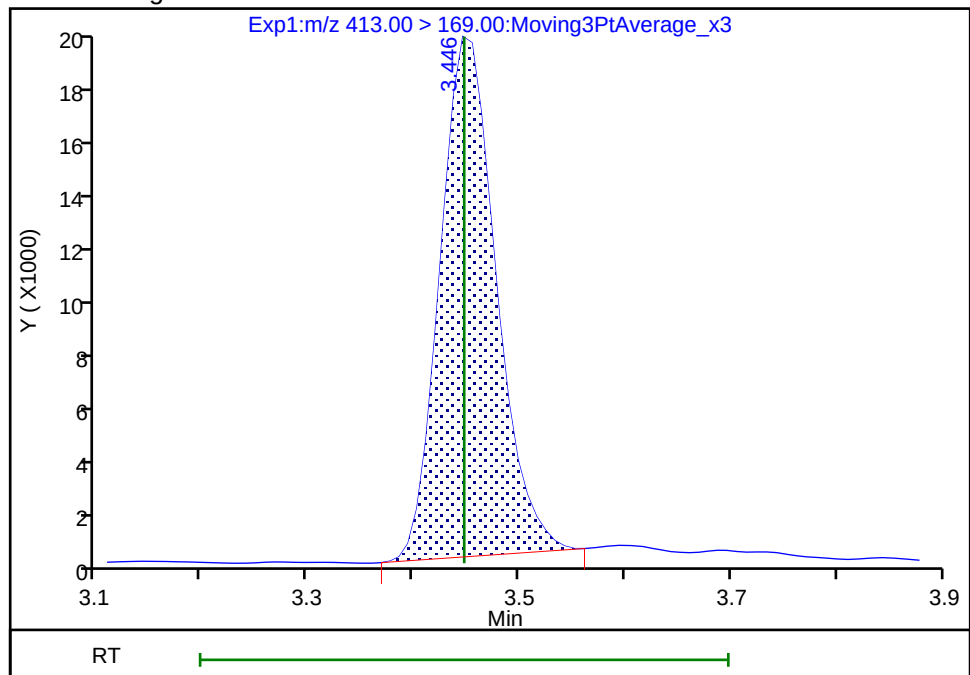
RT: 3.45
Area: 74541
Amount: 0.096919
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 71984
Amount: 0.101896
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

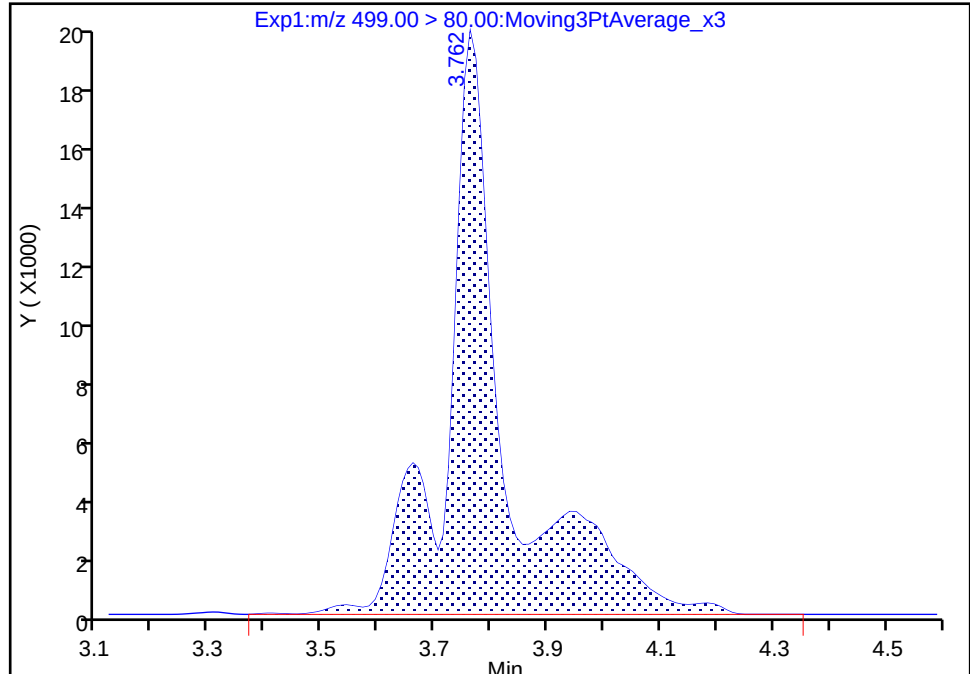
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

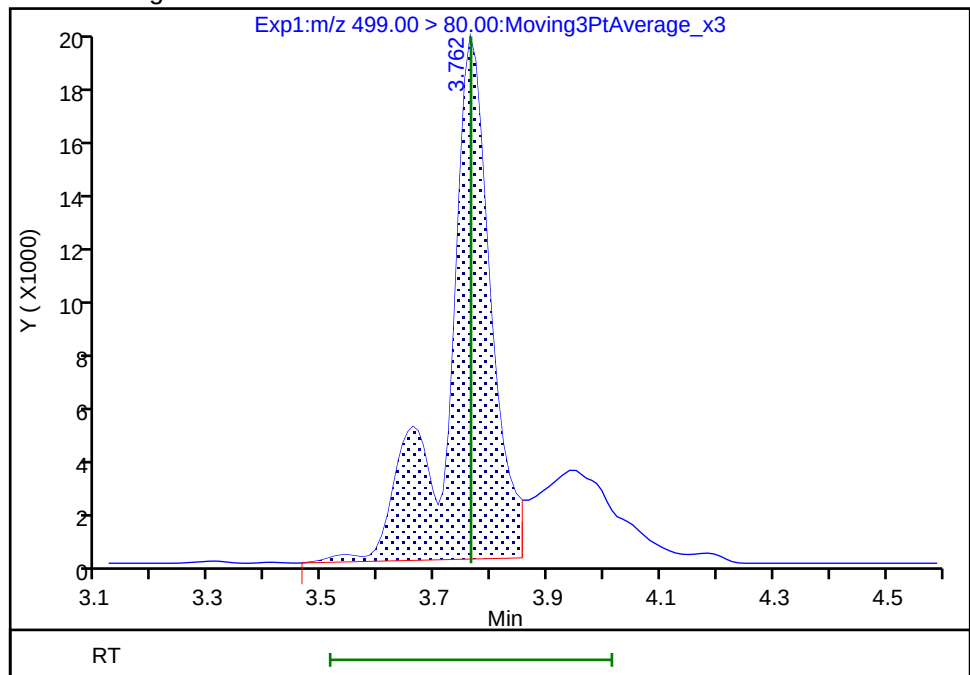
RT: 3.76
Area: 145194
Amount: 0.106140
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 105528
Amount: 0.102635
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

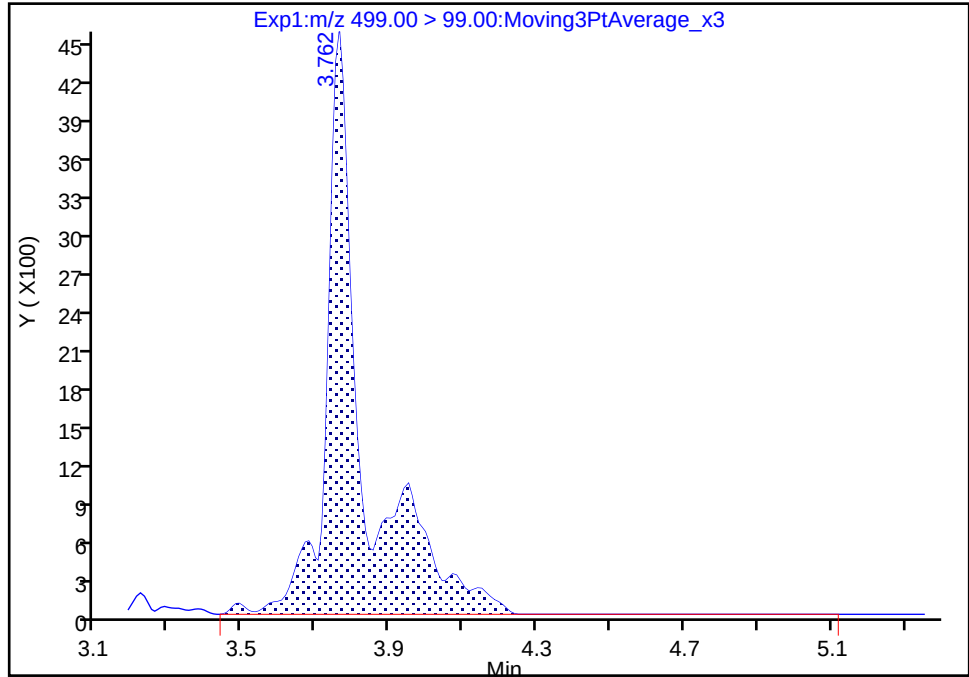
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

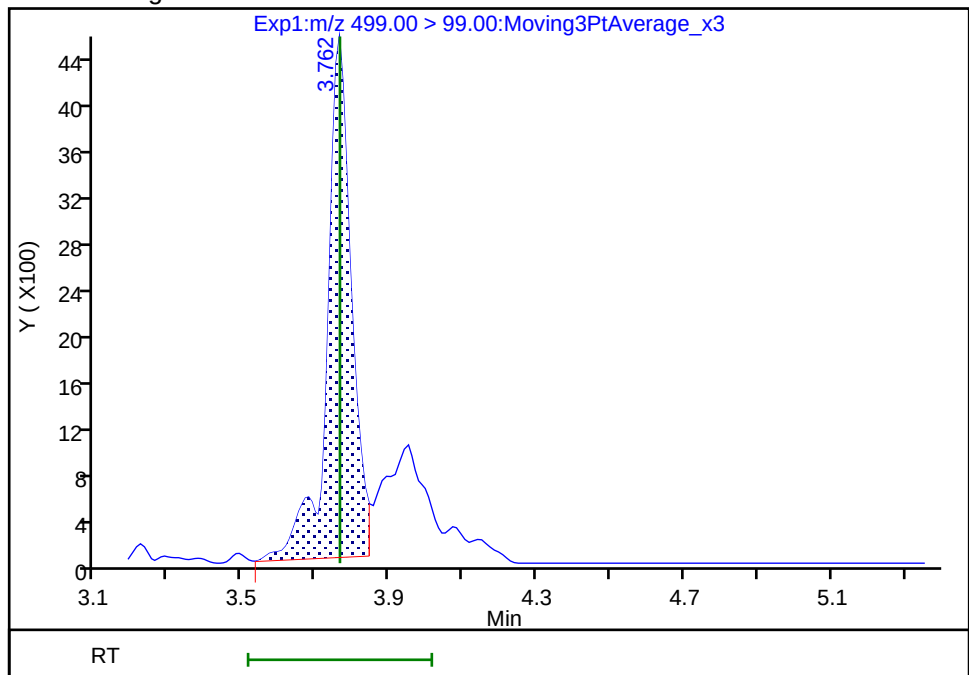
RT: 3.76
Area: 31586
Amount: 0.106140
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 20524
Amount: 0.102635
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

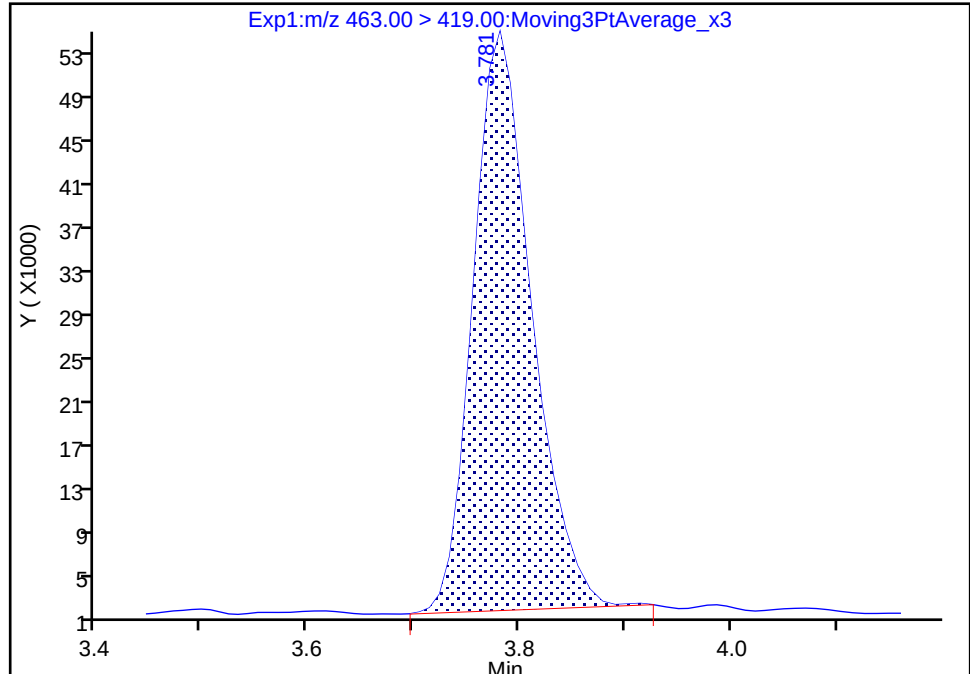
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

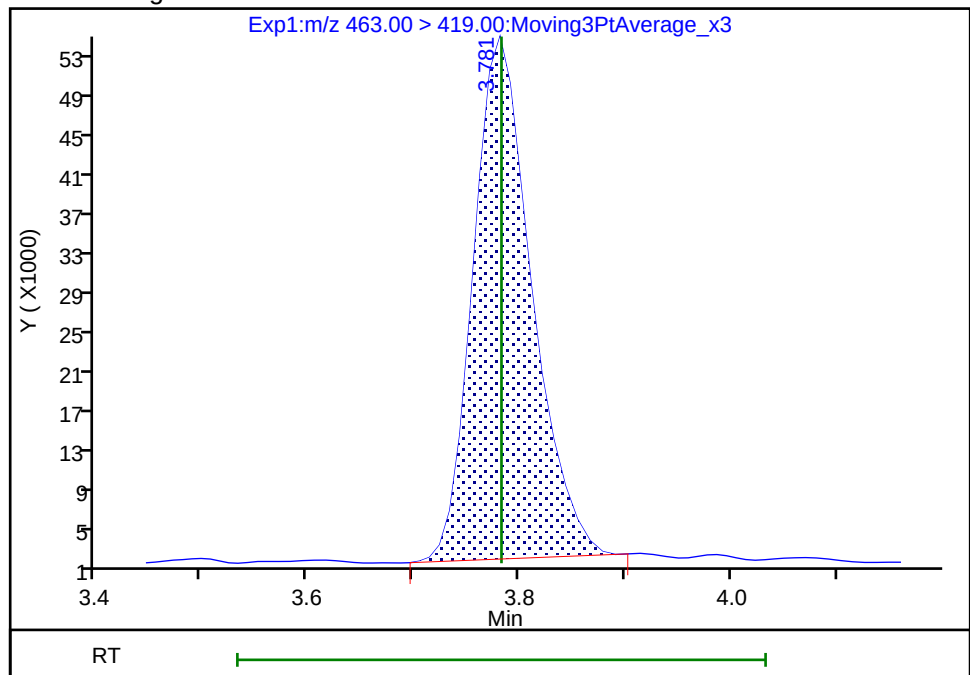
RT: 3.78
Area: 202724
Amount: 0.099917
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 201460
Amount: 0.102775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

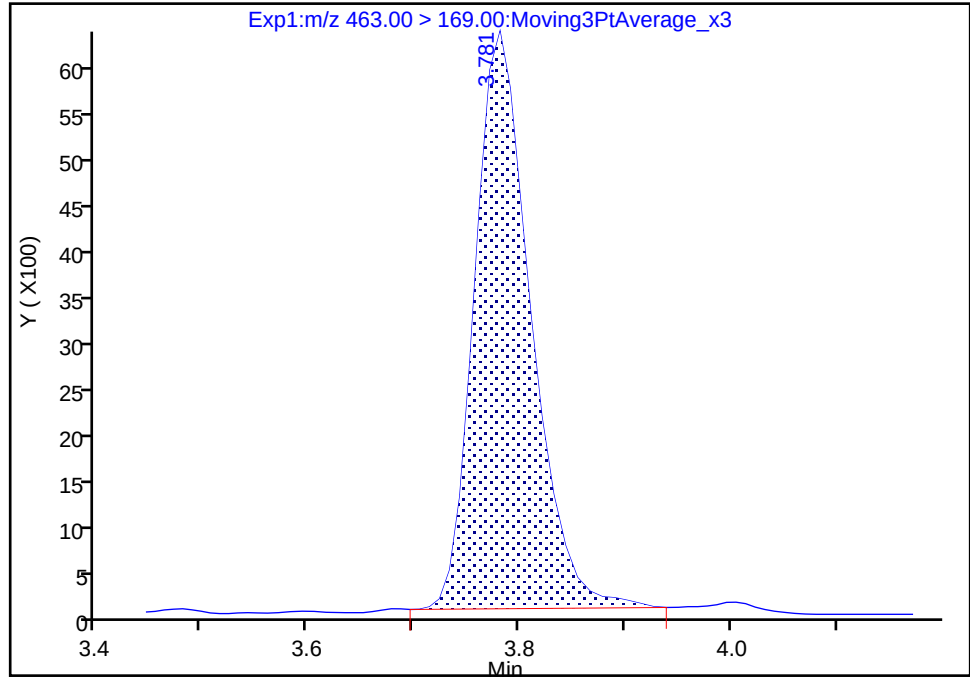
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

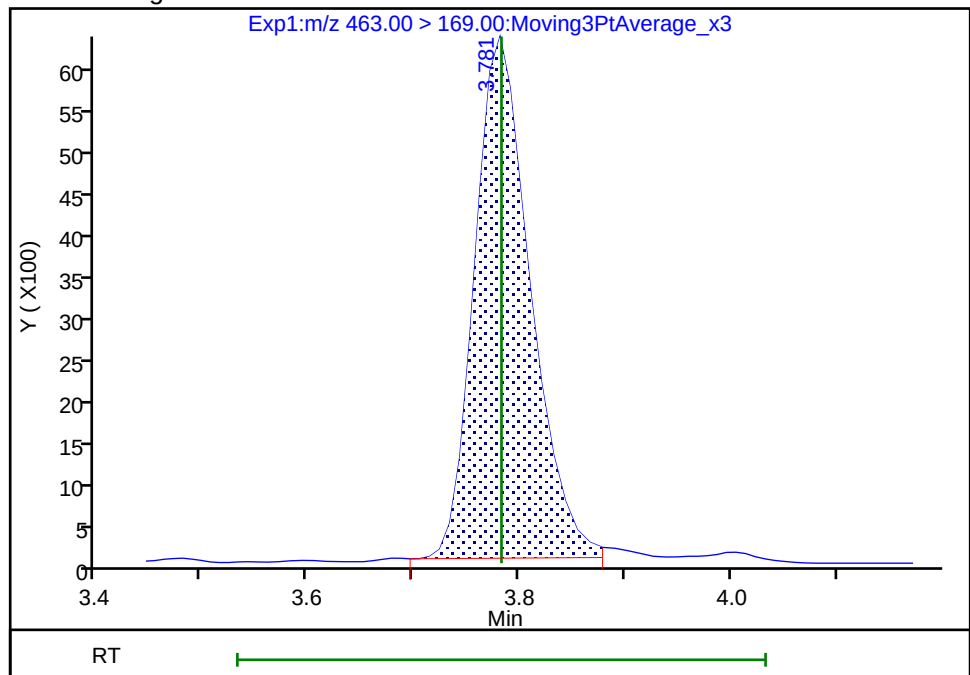
RT: 3.78
Area: 23367
Amount: 0.099917
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 23149
Amount: 0.102775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

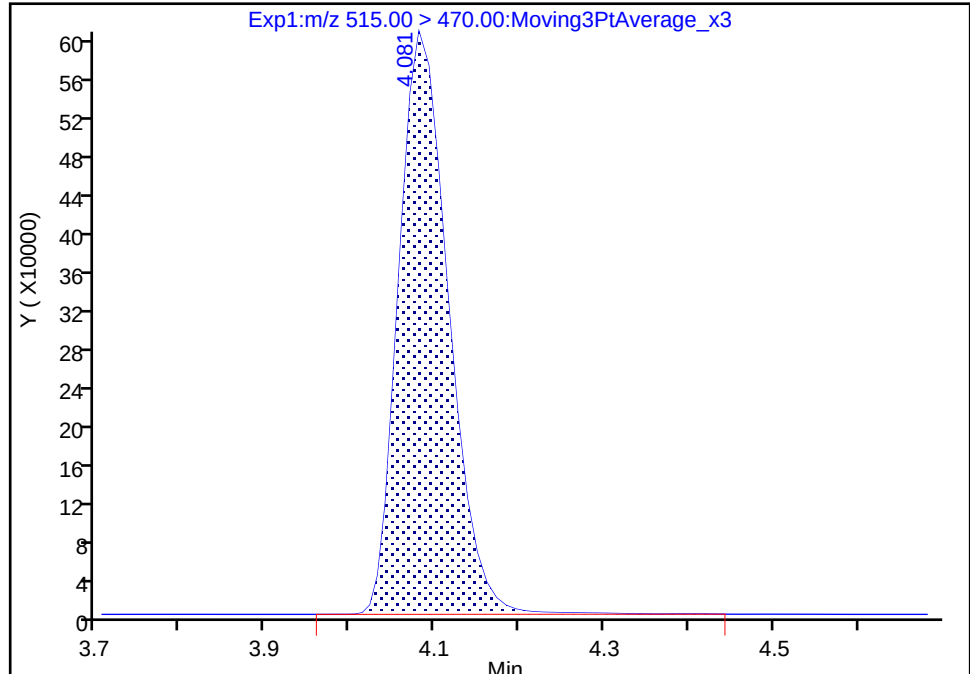
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d		
Injection Date:	18-Nov-2022 14:38:04	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	6

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

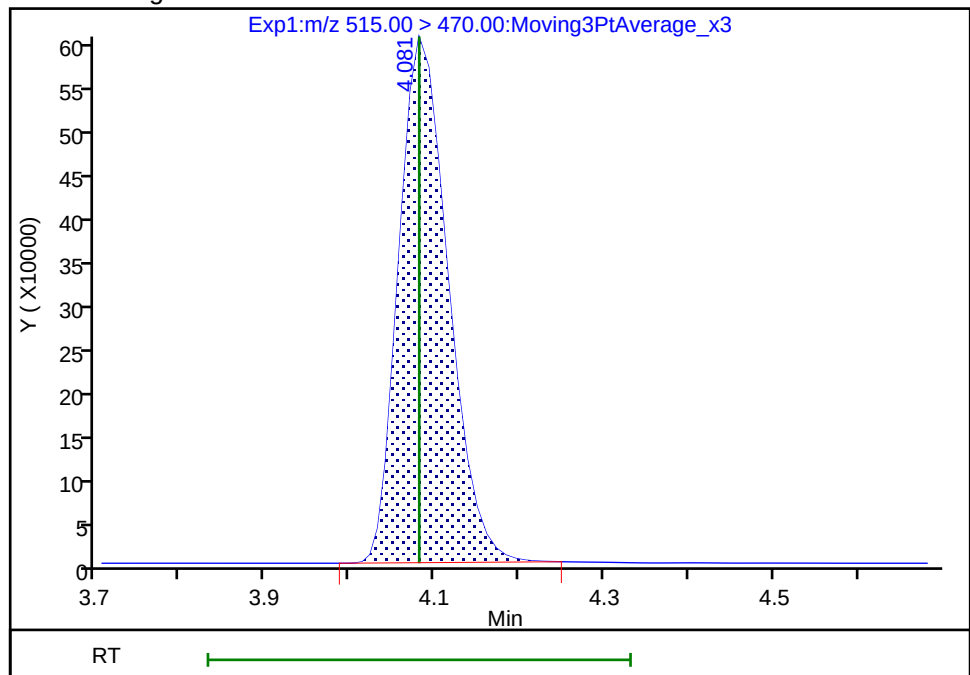
RT: 4.08
Area: 2458427
Amount: 1.268074
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2439344
Amount: 1.251415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

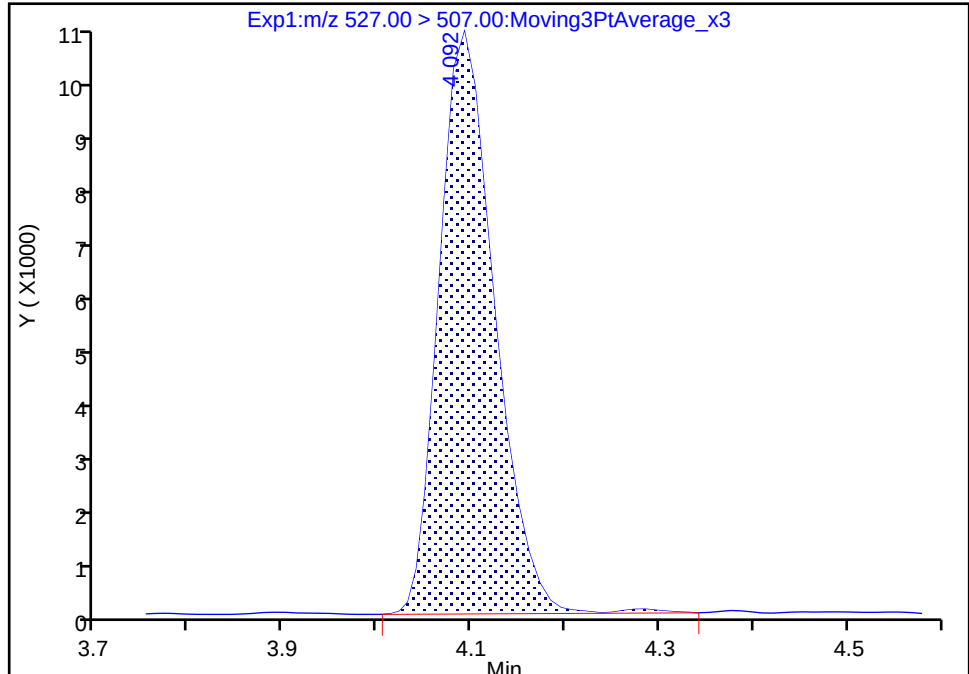
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

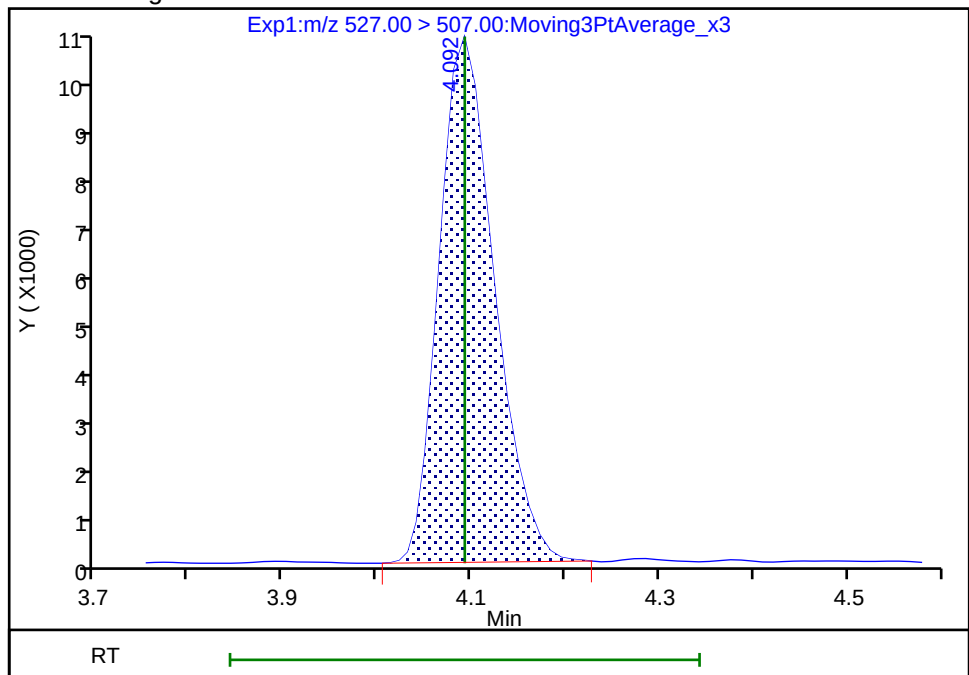
RT: 4.09
Area: 41439
Amount: 0.097438
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 41049
Amount: 0.098942
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

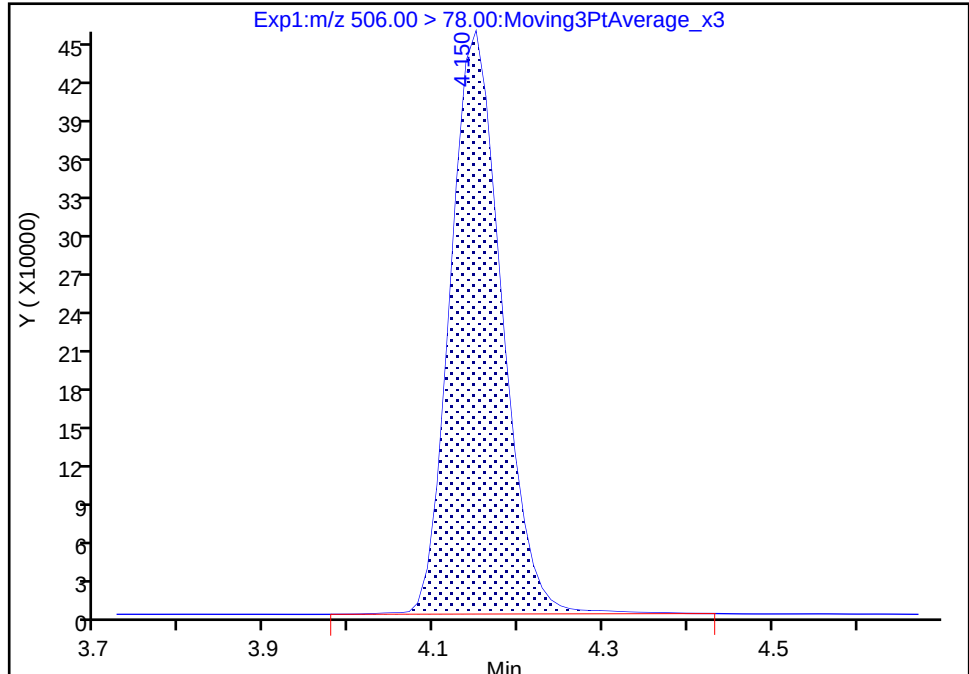
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

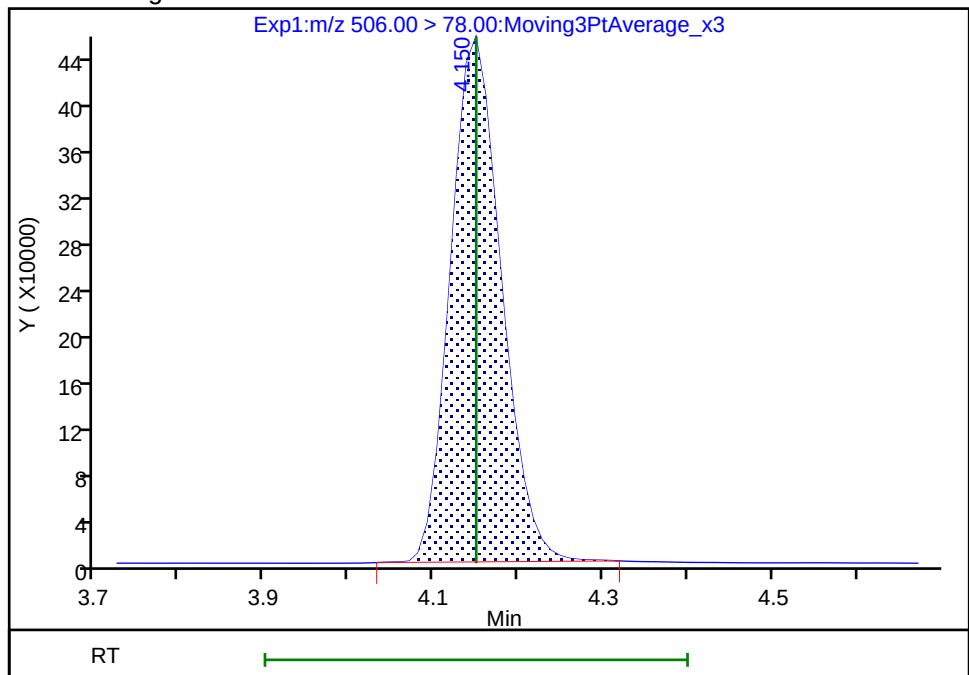
RT: 4.15
Area: 1921287
Amount: 1.214680
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1899612
Amount: 1.188681
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

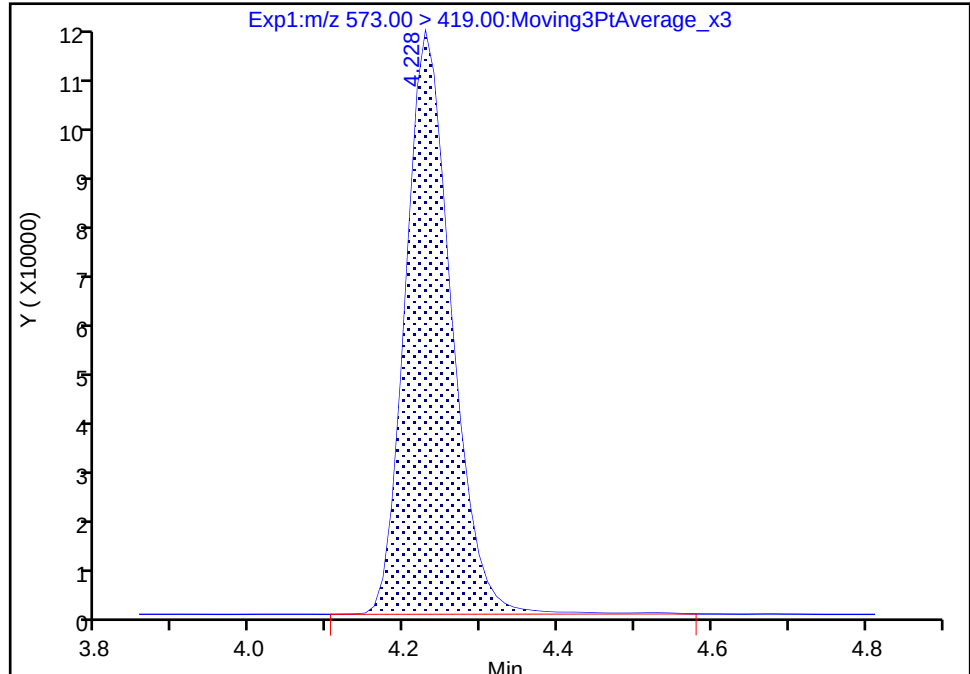
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

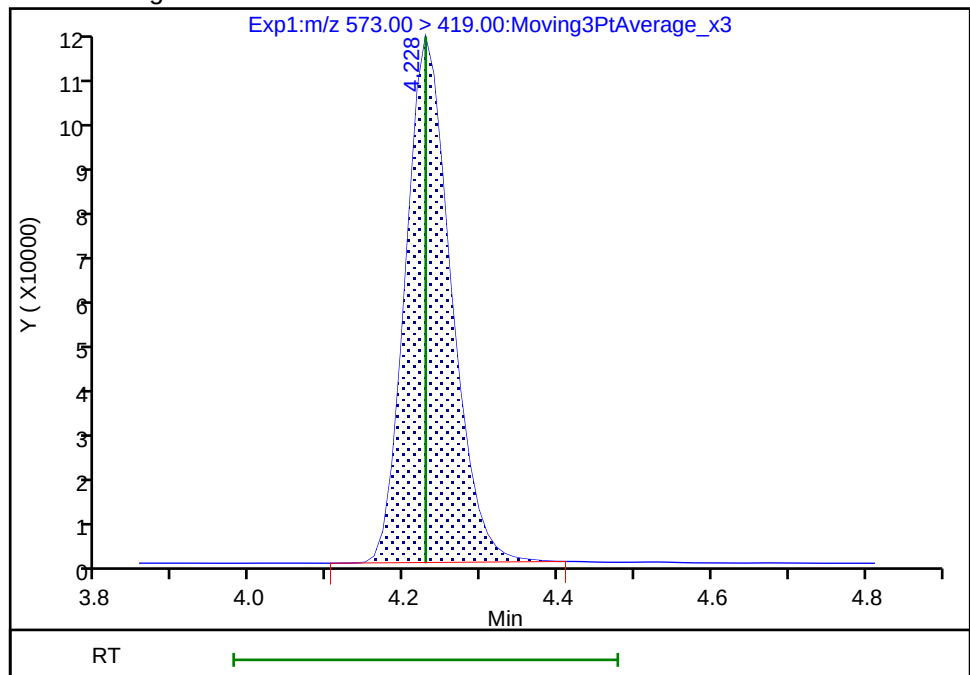
RT: 4.23
Area: 483256
Amount: 1.235603
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 478399
Amount: 1.205370
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

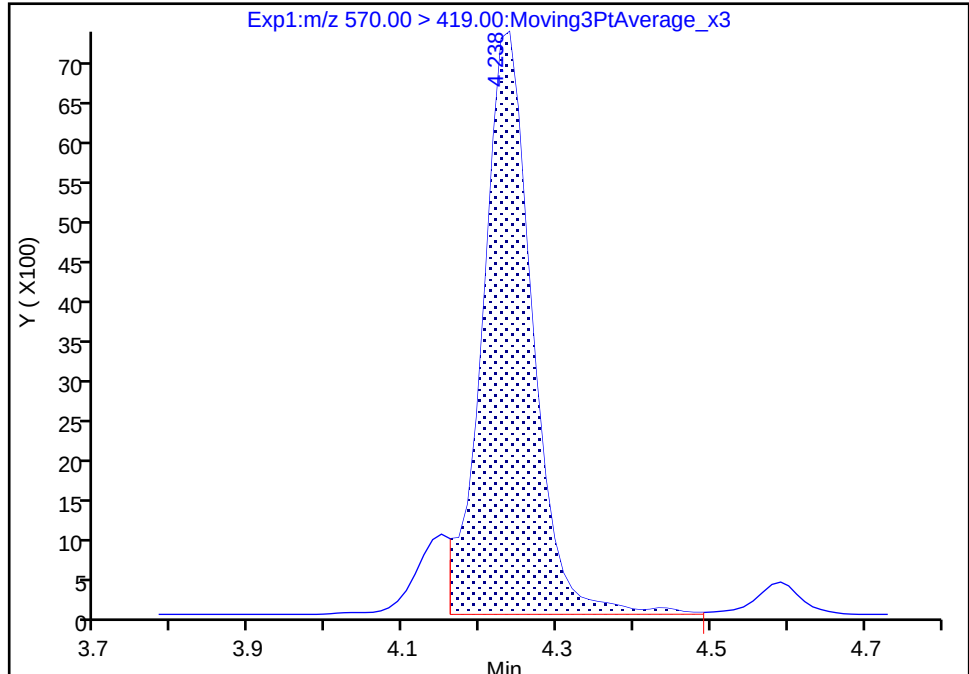
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

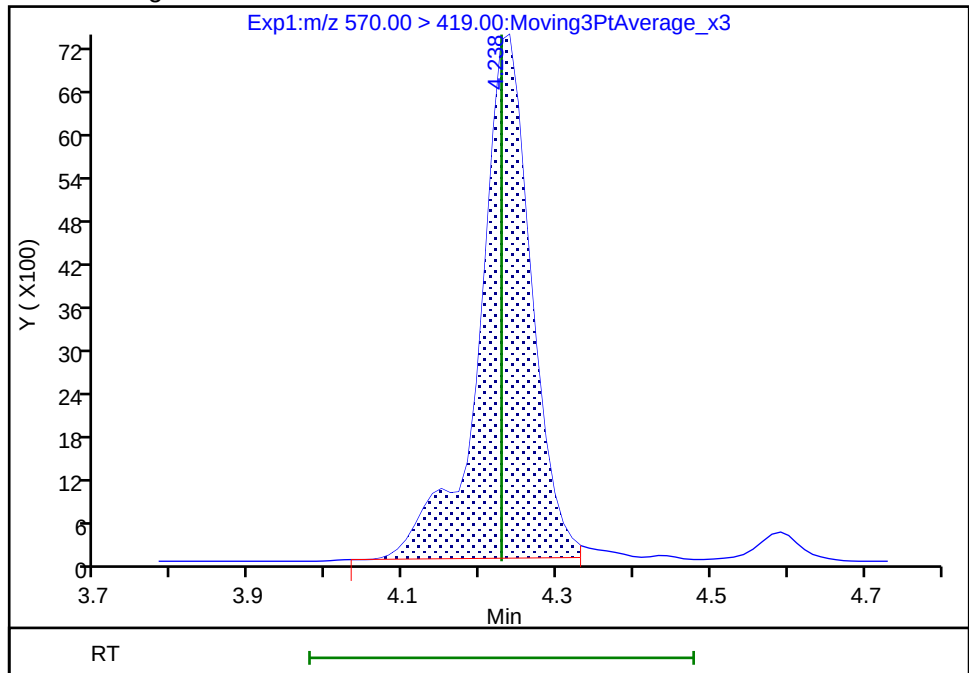
RT: 4.24
Area: 32710
Amount: 0.089959
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 34156
Amount: 0.092118
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

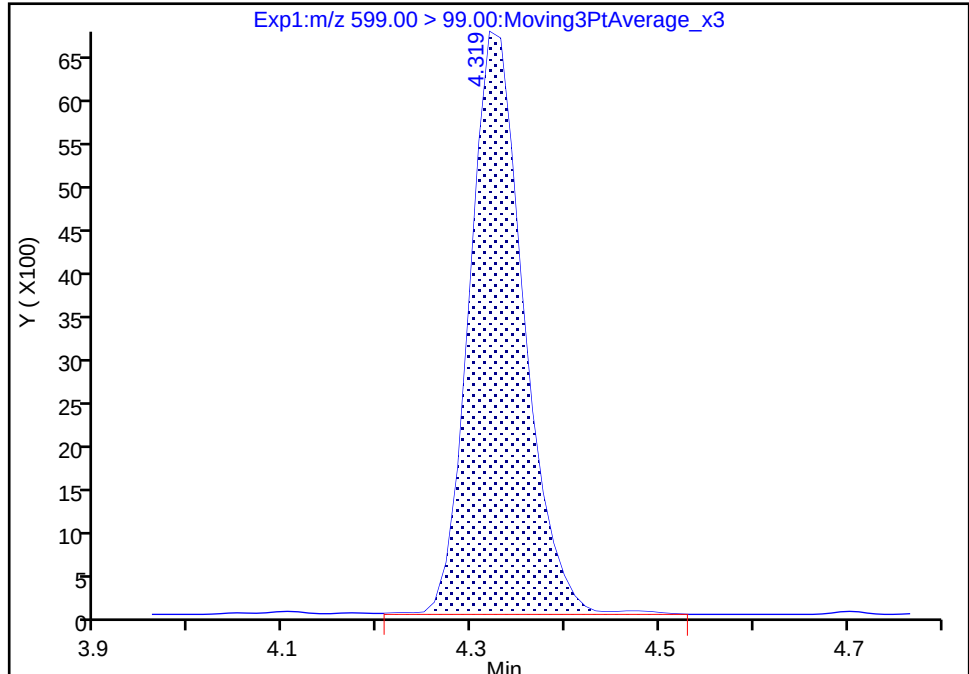
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

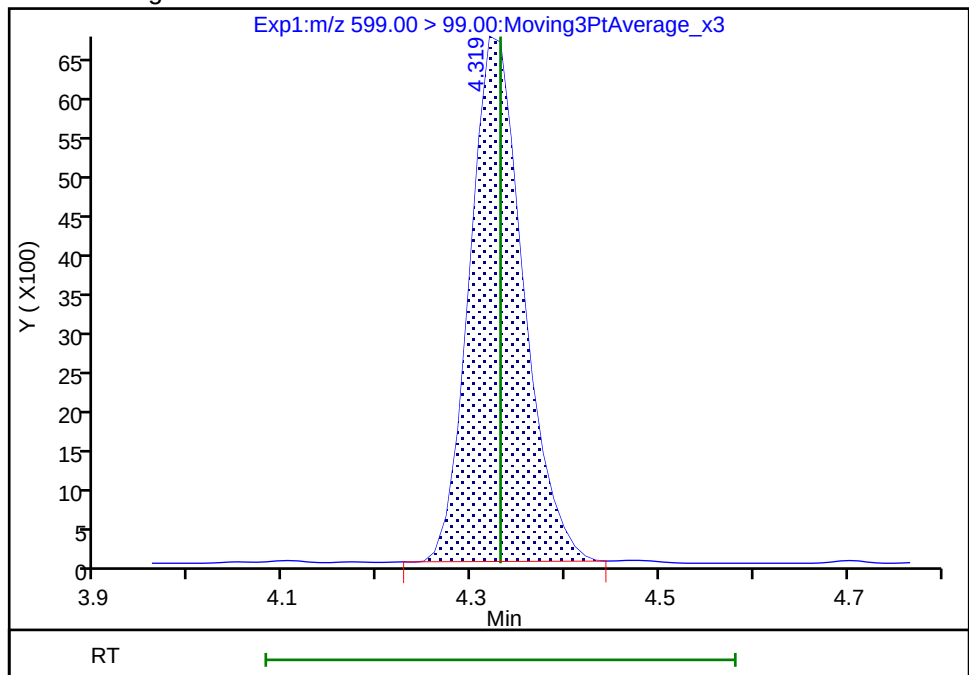
RT: 4.32
Area: 27216
Amount: 0.096282
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 26777
Amount: 0.099171
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

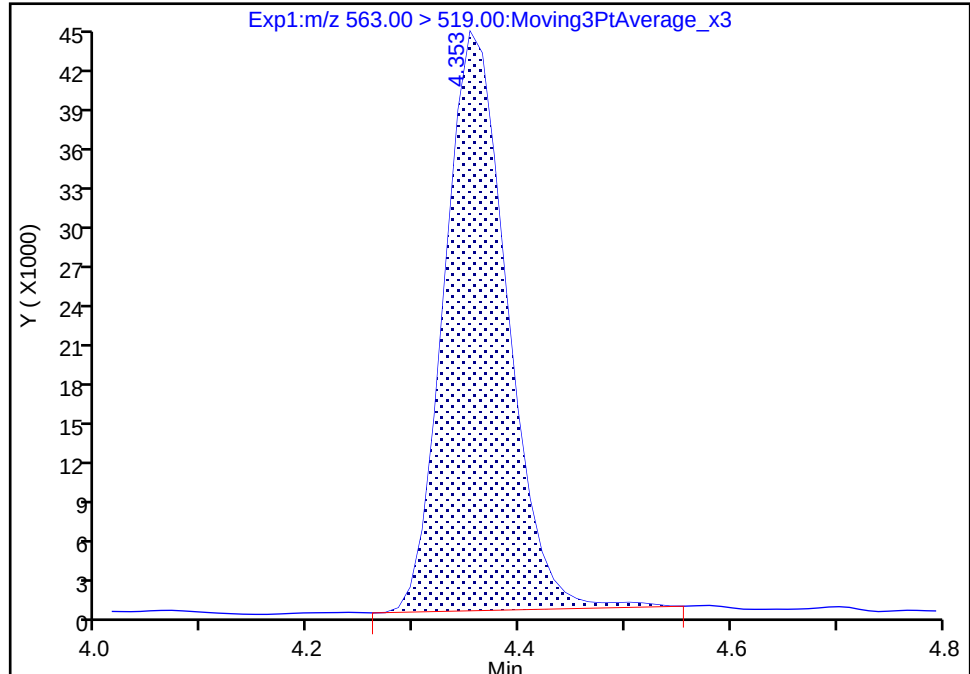
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

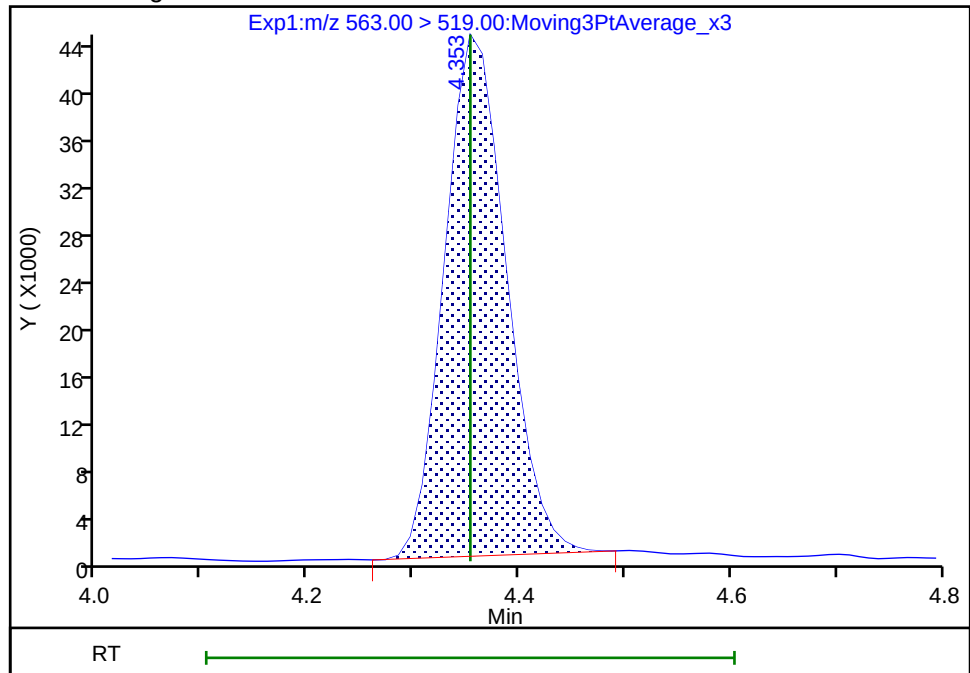
RT: 4.35
Area: 179706
Amount: 0.100640
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 176444
Amount: 0.103263
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

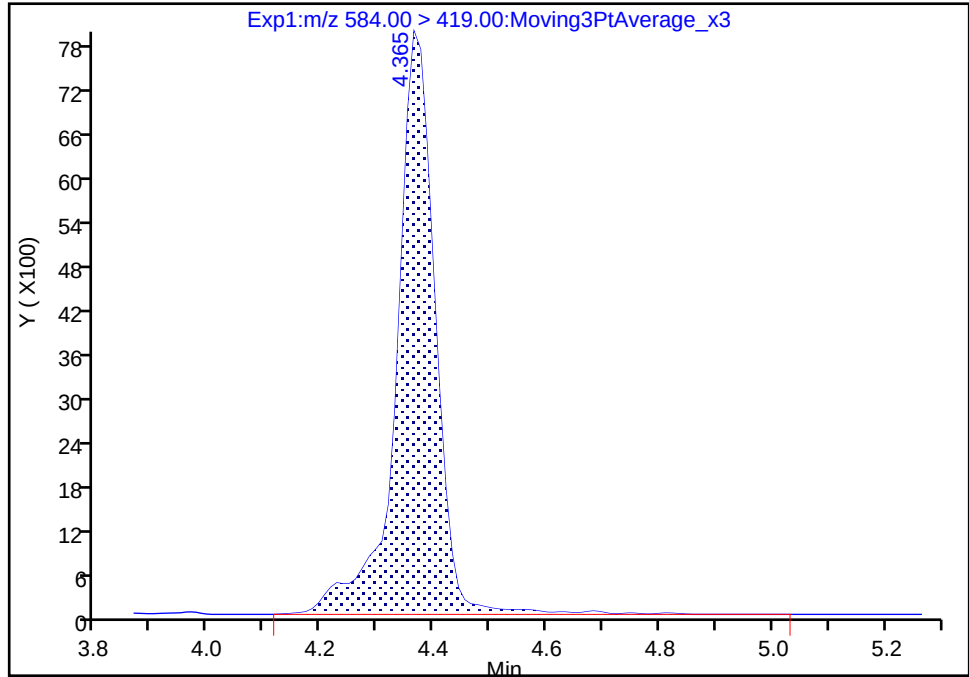
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

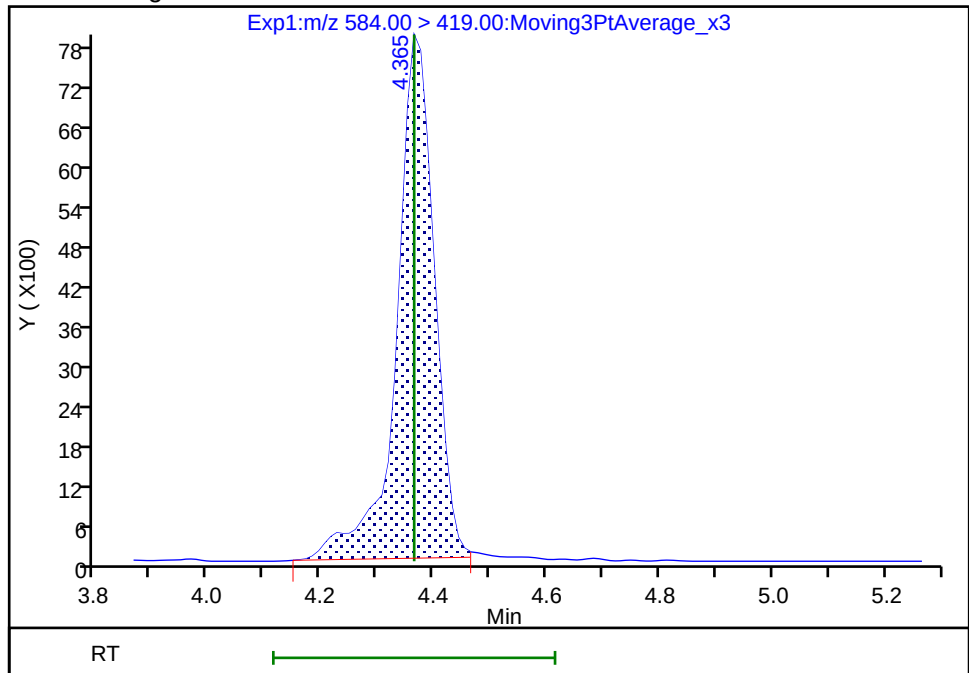
RT: 4.36
Area: 38260
Amount: 0.101365
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 36650
Amount: 0.106207
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

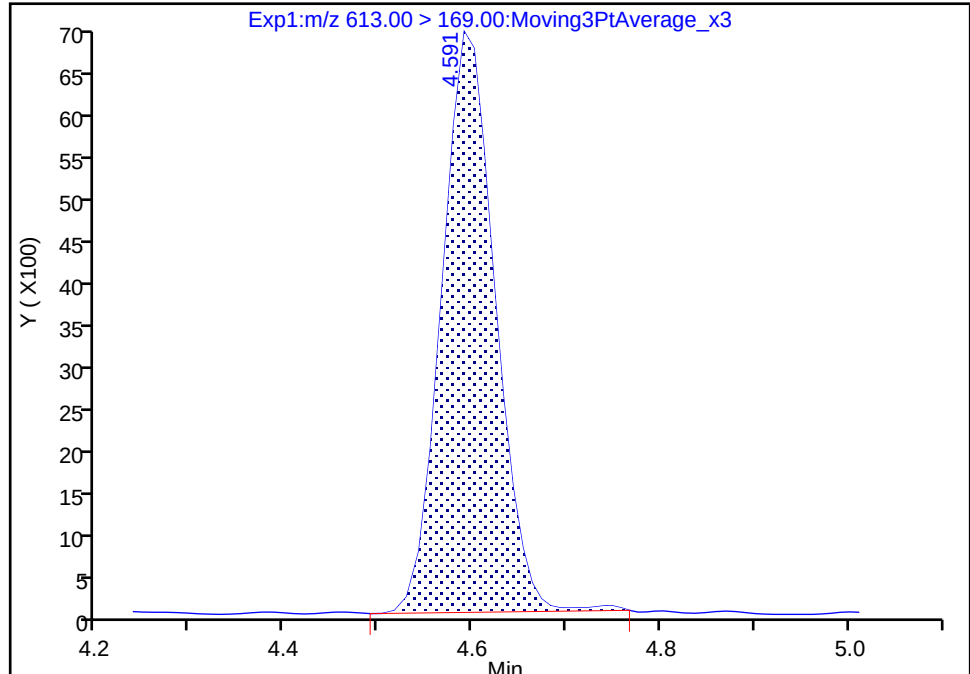
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

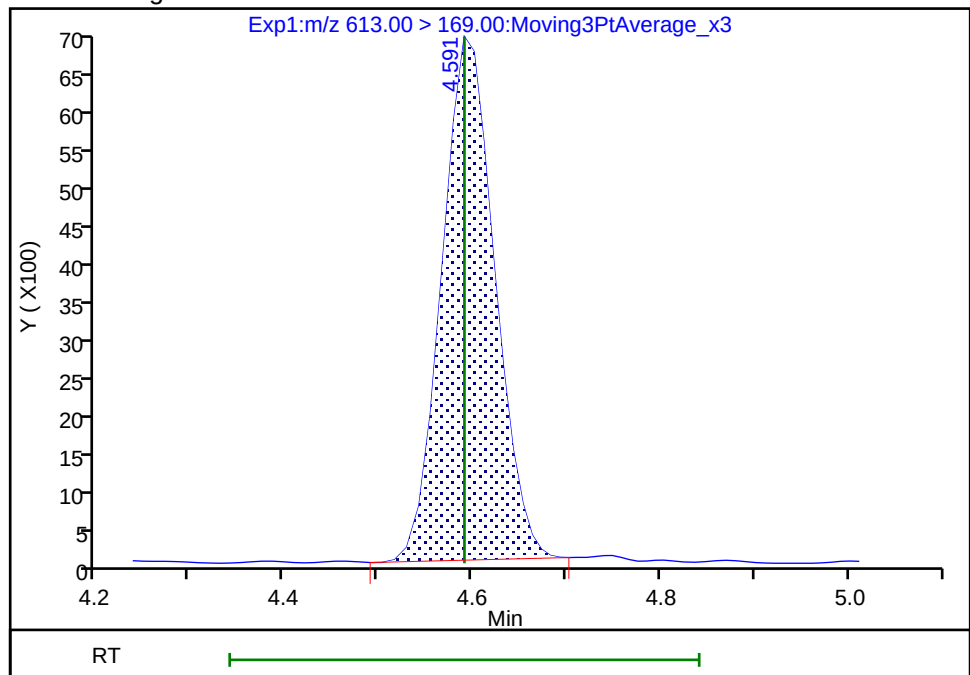
RT: 4.59
Area: 27250
Amount: 0.099538
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 26866
Amount: 0.106894
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

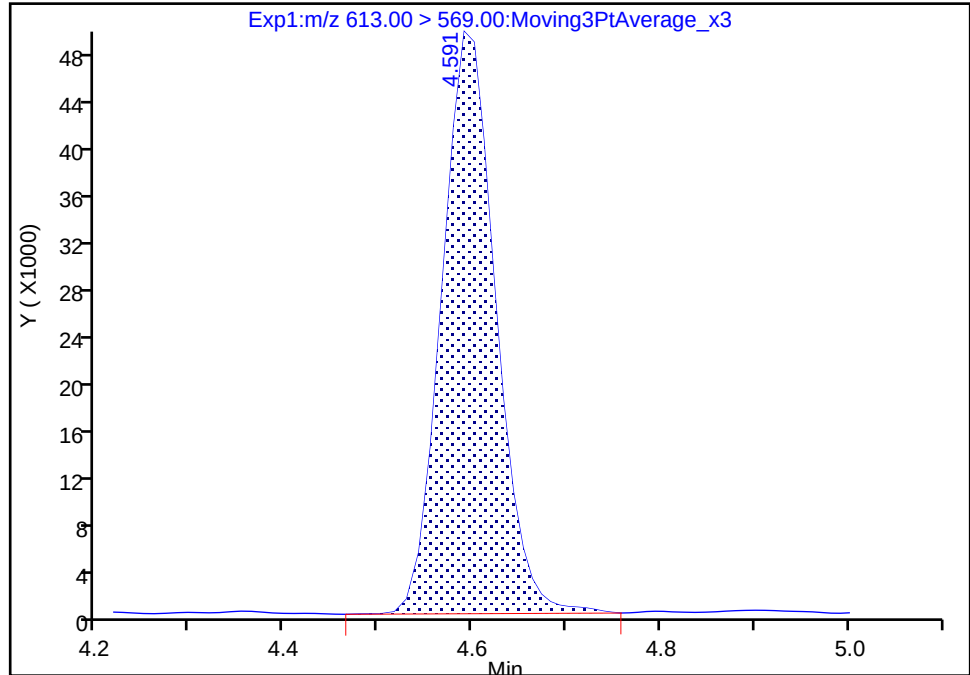
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

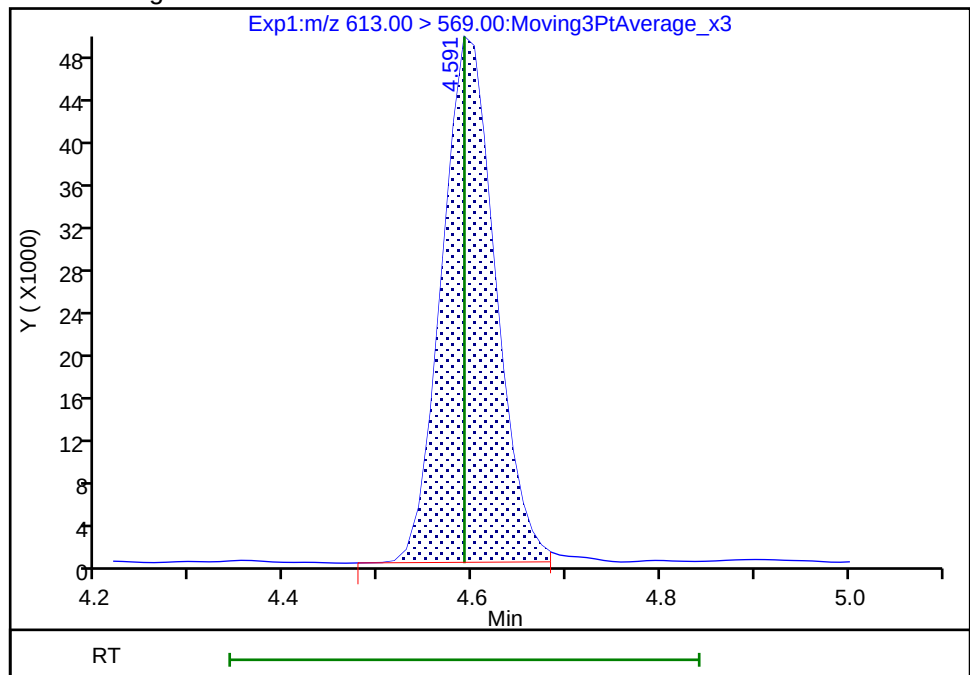
RT: 4.59
Area: 197049
Amount: 0.099538
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 194829
Amount: 0.106894
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

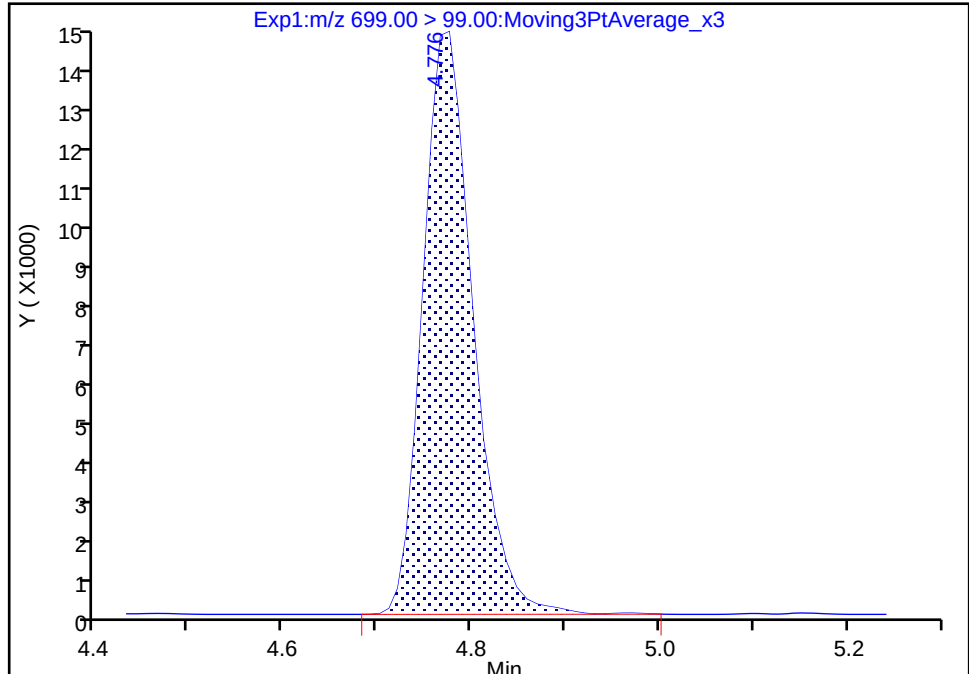
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

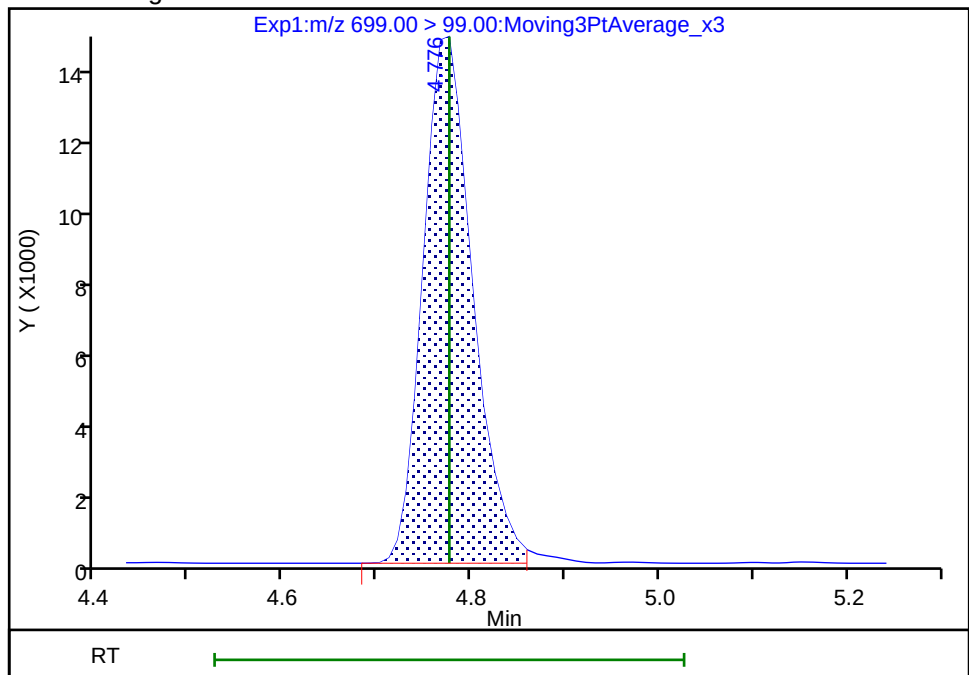
RT: 4.78
Area: 52070
Amount: 0.097278
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 51408
Amount: 0.102415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

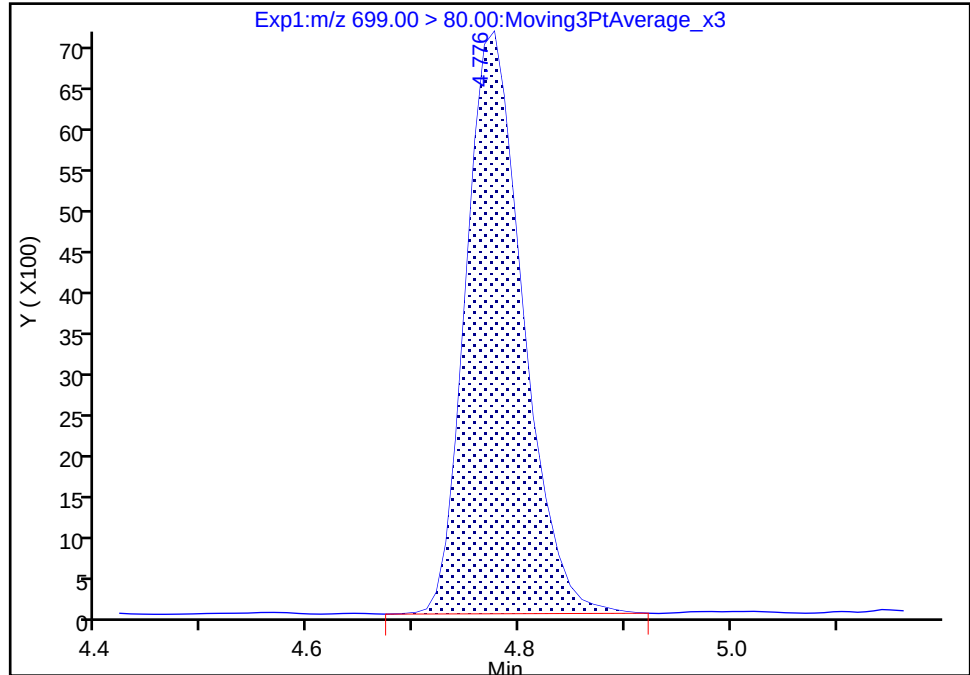
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

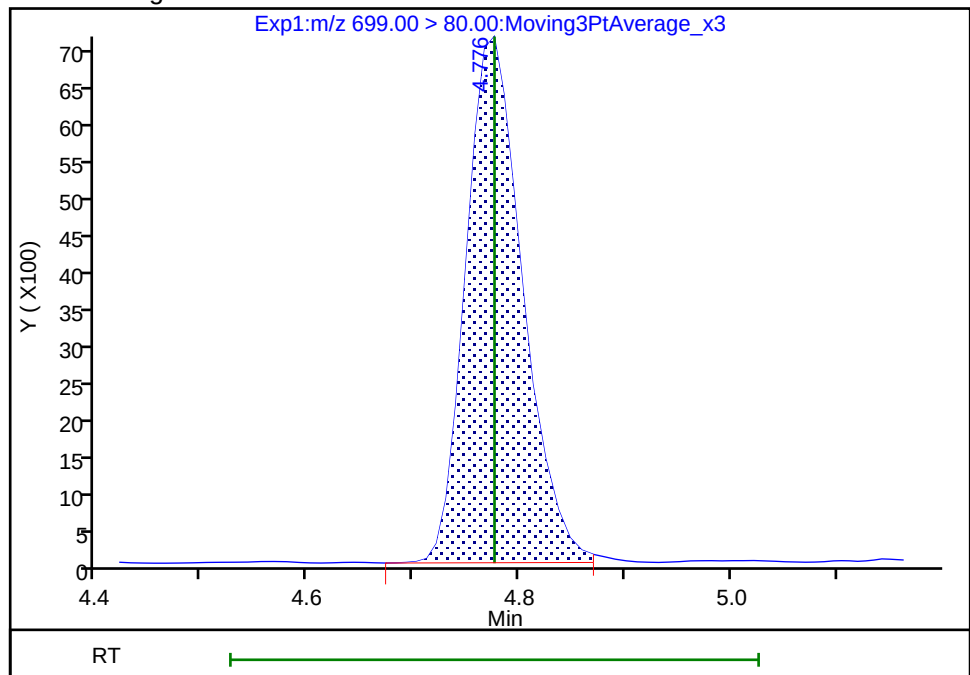
RT: 4.78
Area: 26672
Amount: 0.097278
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 26552
Amount: 0.102415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

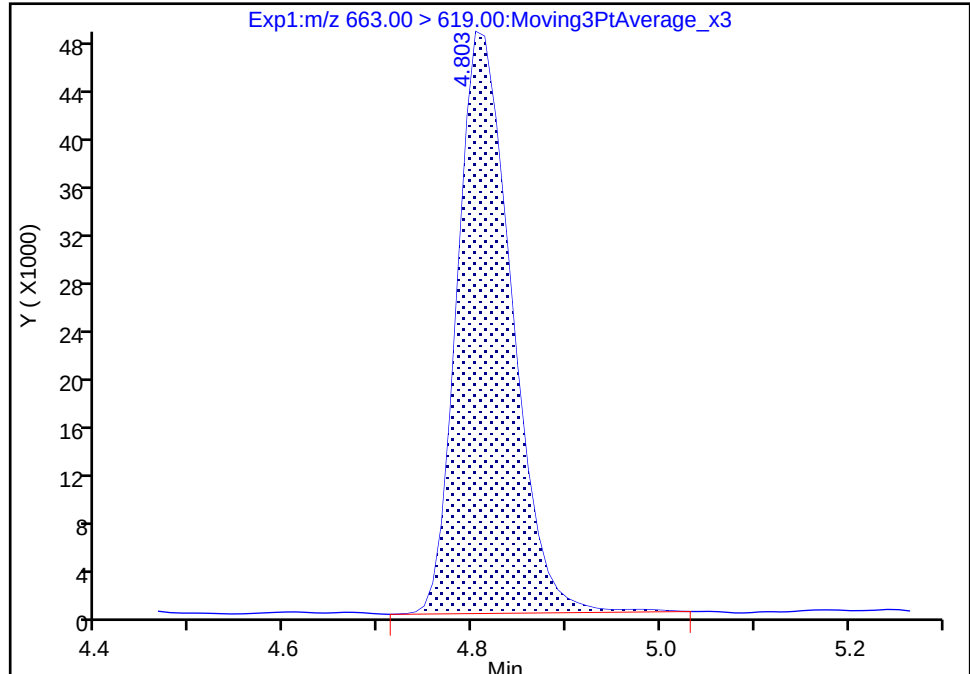
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

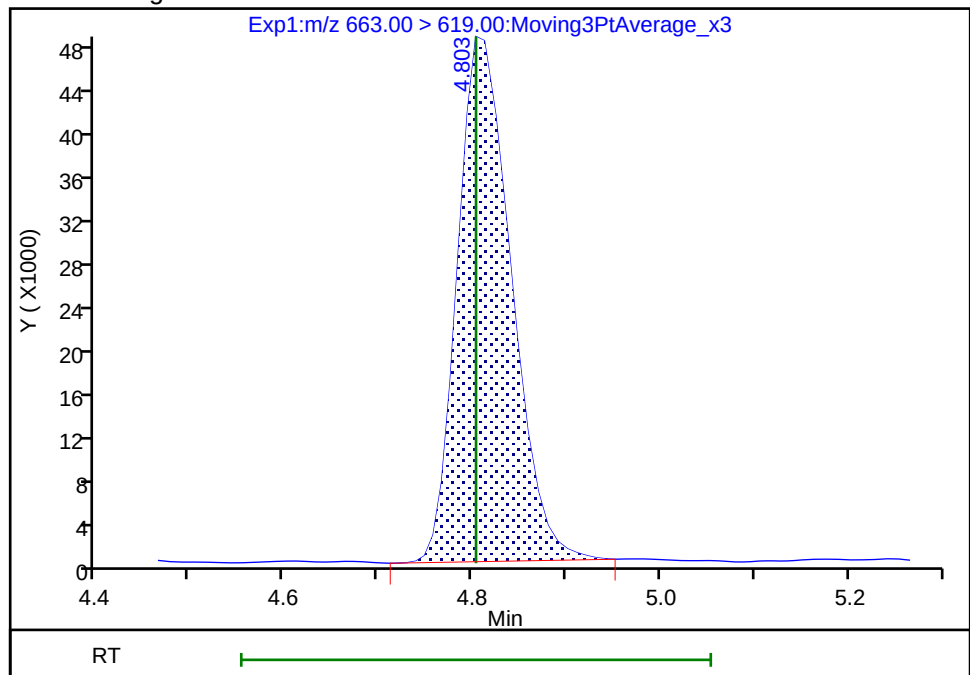
RT: 4.80
Area: 191046
Amount: 0.101171
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 189059
Amount: 0.108461
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

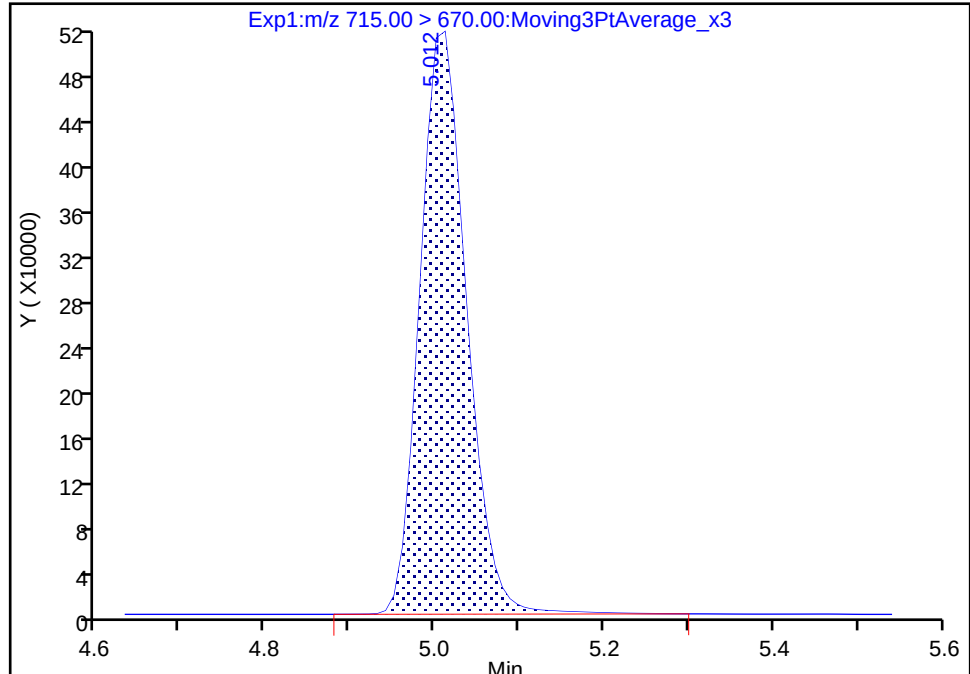
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

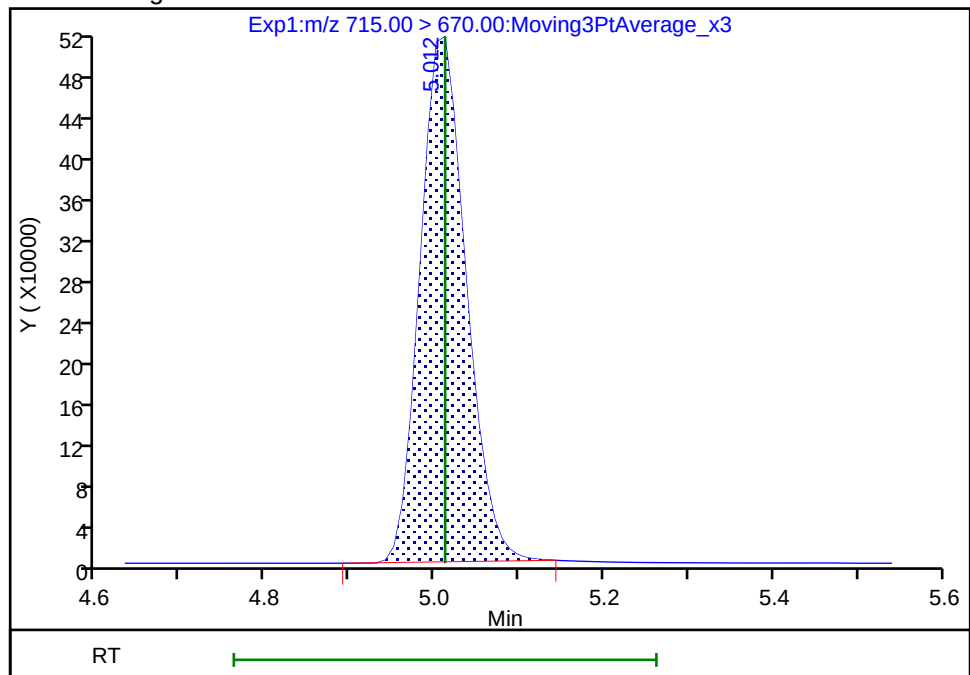
RT: 5.01
Area: 1965548
Amount: 1.242220
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1938056
Amount: 1.232163
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

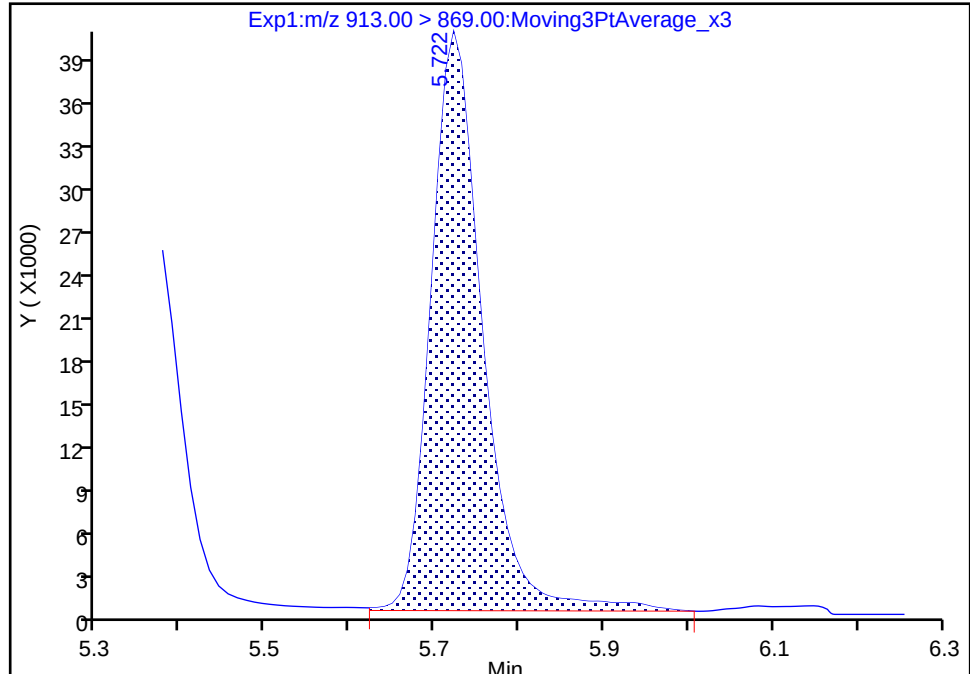
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

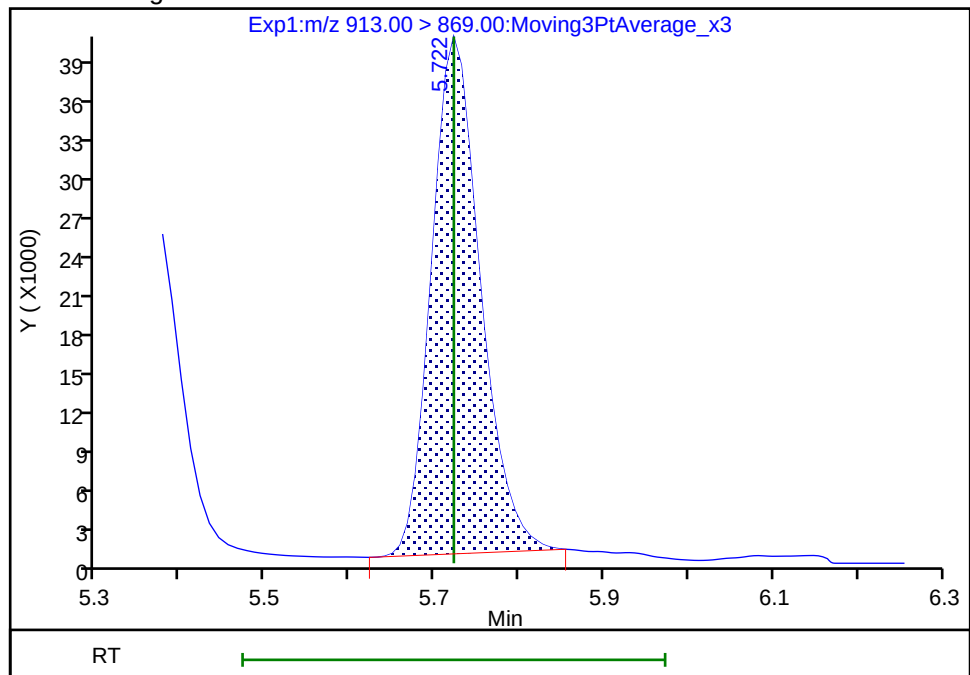
RT: 5.72
Area: 170572
Amount: 0.102523
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 159361
Amount: 0.100699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Nov-2022 14:46:15 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:34 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:05:27

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	2.076	0.001	0.601	2637410	1.23		98.3	11854	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	1137760	0.5229		105	108	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.691	2052396	1.26		100	3508	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	929016	0.5192		104	24.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.694	2040575	1.15		98.8	334958	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.414	2.400	0.014	1.006	899900	0.4481	Target=2.14	101	1321	
298.90 > 99.00	2.414	2.400	0.014	1.006	430748		2.09(1.07-3.21)	101	317	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	229433	0.4862		104	2008	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.701	2.689	0.012	0.781	178810	1.14		97.6	203	
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.792	2177304	1.27		102	5404	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.000	992048	0.5227	Target=13.44	105	212	M
313.00 > 119.00	2.738	2.725	0.013	1.000	70446		14.08(6.72-20.15)	105	109	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.738	2.737	0.001	0.883	837304	0.5028	Target=2.98	107	1270	M
349.00 > 99.00	2.738	2.737	0.001	0.883	277034		3.02(1.49-4.47)	107	689	

D 64 13C3 HFPO-DA

287.00 > 169.00 2.847 2.835 0.012 0.824 378942 1.25

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.847	2.835	0.012	1.000	174879	0.5463		109	738	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.897	1474490	1.14		96.4	2992	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.000	680406	0.4835	Target=3.57	106	613	M
399.00 > 99.00	3.099	3.088	0.011	1.000	185398		3.67(1.78-5.35)	106	227	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.099	3.099	0.0	0.897	2150118	1.22		97.6	2578	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	1003322	0.5357	Target=3.93	107	220	
363.00 > 169.00	3.099	3.099	0.0	1.000	251672		3.99(1.96-5.89)	107	546	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	2408962	0.5050	Target=3.08	107	2523	M
377.00 > 85.00	3.132	3.132	0.0	0.832	760123		3.17(1.54-4.62)	107	909	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.995	247623	1.14		96.1	604	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	235479	0.5227		110	570	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	616490	0.5096	Target=5.16	107	2611	
449.00 > 99.00	3.439	3.439	0.0	0.914	120467		5.12(2.58-7.74)	107	616	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	0.997	2474245	1.25		99.9	3212	
* 62 13C2 PFOA										
415.00 > 370.00	3.457	3.448	0.009		2392397	1.25			3521	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.457	3.448	0.009	1.003	1110144	0.5246	Target=2.82	105	82.7	
413.00 > 169.00	3.457	3.448	0.009	1.003	391263		2.84(1.41-4.23)	105	806	
D 18 13C4 PFOS										M
503.00 > 80.00	3.764	3.764	0.0	1.089	1035061	1.18		98.6	2361	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.774	3.764	0.010	1.003	471879	0.4480	Target=5.01	96.5	102	M
499.00 > 99.00	3.764	3.764	0.0	1.000	103252		4.57(2.50-7.51)	96.5	102	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.783	3.783	0.0	1.094	2379680	1.24		98.9	2665	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	1050495	0.5319	Target=8.49	106	218	
463.00 > 169.00	3.783	3.783	0.0	1.000	118713		8.85(4.25-12.74)	106	803	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	1190983	0.4926		106	2626	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	390435	0.4911	Target=2.60	102	2933	
549.00 > 99.00	4.061	4.050	0.011	1.079	149046		2.62(1.30-3.90)	102	1506	
D 23 13C2 PFDA										M
515.00 > 470.00	4.082	4.081	0.001	1.181	2334094	1.19		95.2	2867	M

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	4.093	4.081	0.012	1.003	1184639	0.5850	Target=10.03	117	511	
513.00 > 169.00	4.093	4.081	0.012	1.003	108172		10.95(5.02-15.05)	117	172	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.184	321045	1.21		101	876	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	222425	0.5131		107	1417	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	835408	0.5081		102	1225	
D 21 13C8 FOSA										M
506.00 > 78.00	4.150	4.150	0.0	1.201	1967036	1.22		97.8	2140	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.223	466044	1.17		93.3	922	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.239	4.228	0.011	1.003	183478	0.5604		112	288	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.332	4.331	0.001	1.151	325384	0.5183	Target=2.58	108	1654	
599.00 > 99.00	4.332	4.331	0.001	1.151	120718		2.70(1.29-3.86)	108	963	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.353	0.002	1.000	1004863	0.5589	Target=10.10	112	429	M
563.00 > 169.00	4.355	4.353	0.002	1.000	95565		10.51(5.05-15.15)	112	1035	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.355	4.353	0.002	1.260	2230172	1.24		99.3	2329	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.377	4.365	0.012	1.003	182262	0.5108		102	737	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.365	0.001	1.263	498173	1.27		101	956	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.455	4.454	0.001	1.184	1834007	0.4921		104	3964	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.602	4.591	0.011	1.000	1027352	0.5397	Target=7.41	108	64.0	
613.00 > 169.00	4.591	4.591	0.0	0.998	134691		7.63(3.70-11.11)	108	843	
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.591	0.011	1.331	2245926	1.23		98.2	3386	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	125547	0.4819		100.0	653	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	135657	0.5107	Target=0.51	106	1367	M
699.00 > 99.00	4.776	4.776	0.0	1.269	264160		0.51(0.25-0.76)	106	1629	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.046	987678	0.5425	Target=5.40	109	72.4	M
663.00 > 169.00	4.813	4.804	0.009	1.046	186073		5.31(2.70-8.10)	109	641	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	113607	0.5327	Target=0.90	107	875	
713.00 > 219.00	5.002	5.012	-0.010	0.998	120383		0.94(0.45-1.35)	107	1031	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.450	1947280	1.23		98.4	2530	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.378	5.367	0.011	1.556	2348434	1.20		96.0	2289	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.000	978907	0.5496	Target=5.85	110	82.4	M
813.00 > 169.00	5.378	5.367	0.011	1.000	169718		5.77(2.93-8.78)	110	842	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.064	852104	0.5507	Target=6.30	110	86.6	M
913.00 > 169.00	5.722	5.722	0.0	1.064	133969		6.36(3.15-9.46)	110	557	M

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\20221118-53396.b\PA221118ICAL07.d

Injection Date: 18-Nov-2022 14:46:15

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

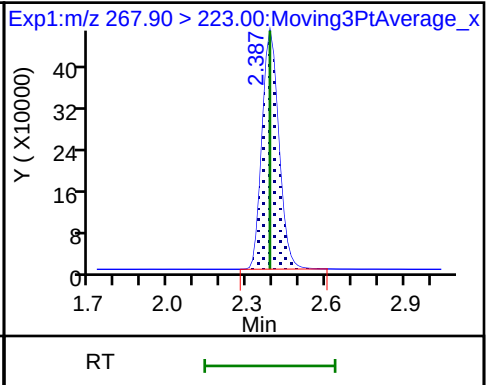
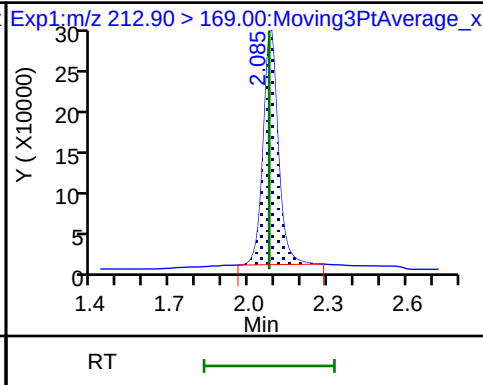
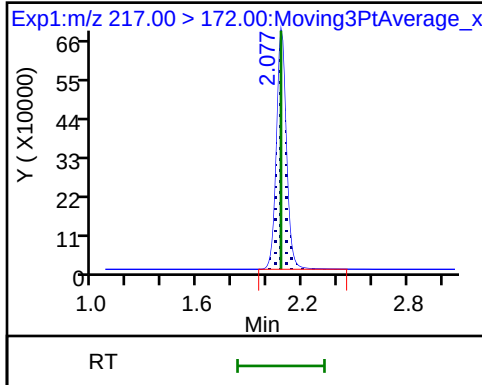
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

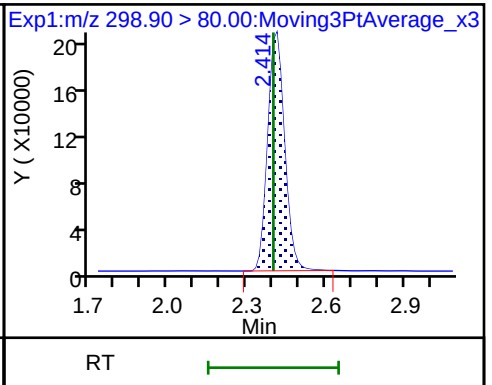
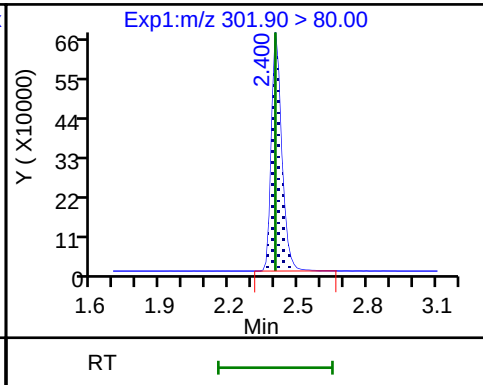
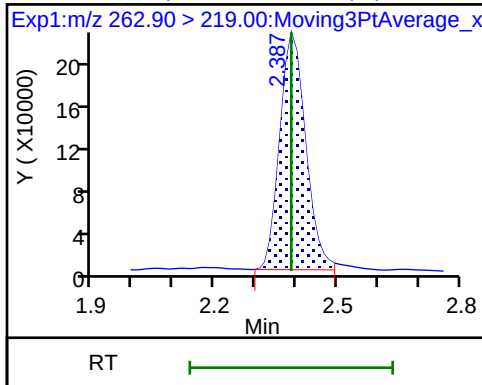
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

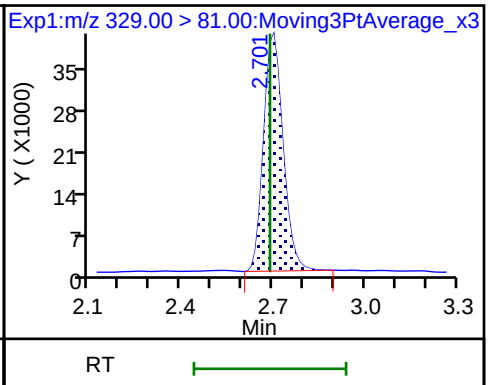
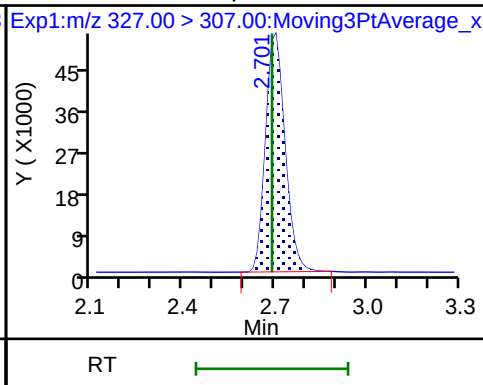
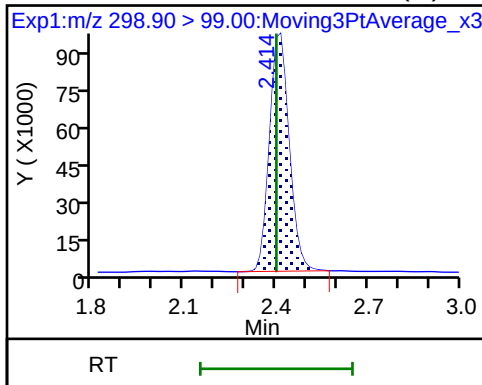
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

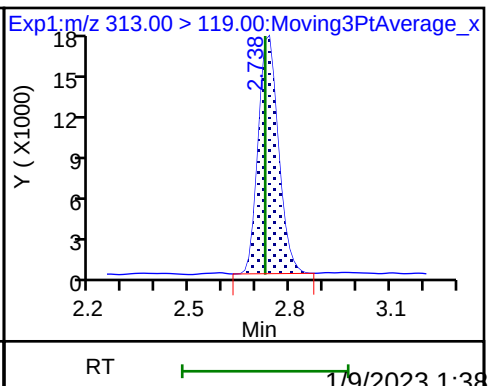
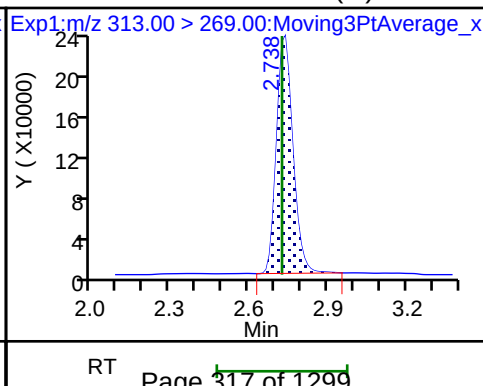
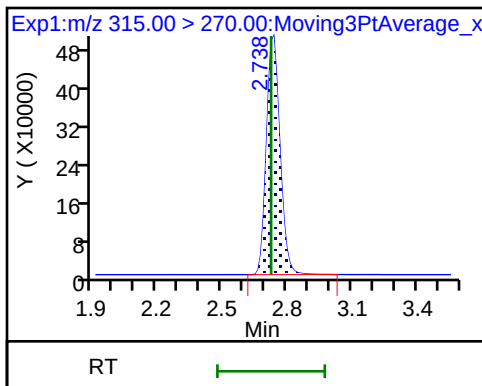
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

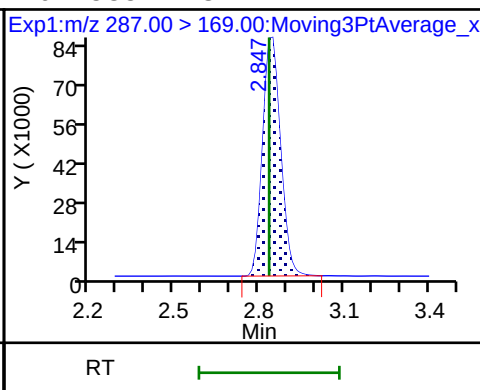
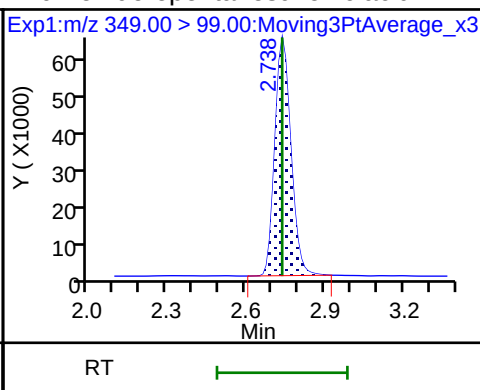
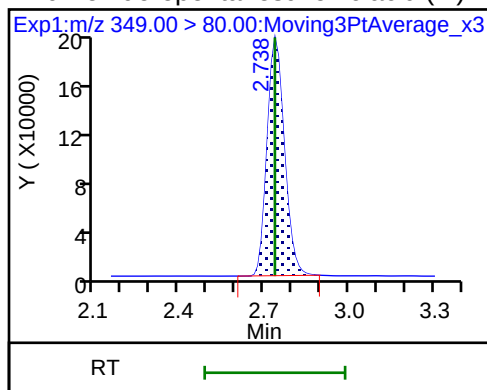
6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid (M)

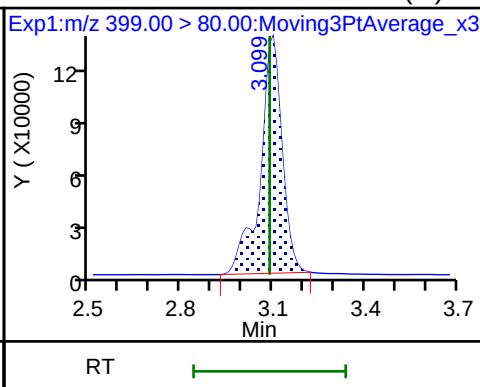
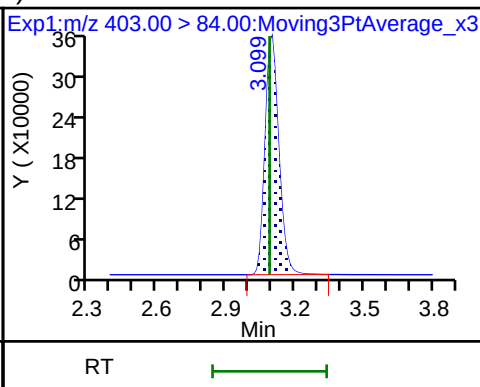
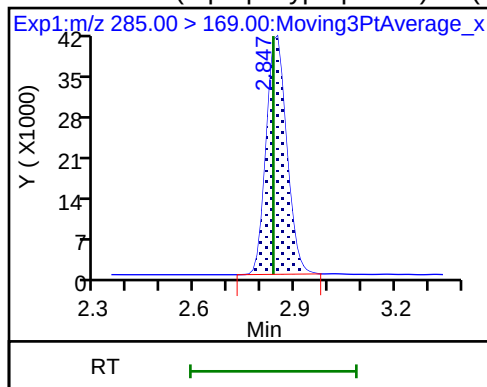
70 Perfluoropentanesulfonic acid

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS

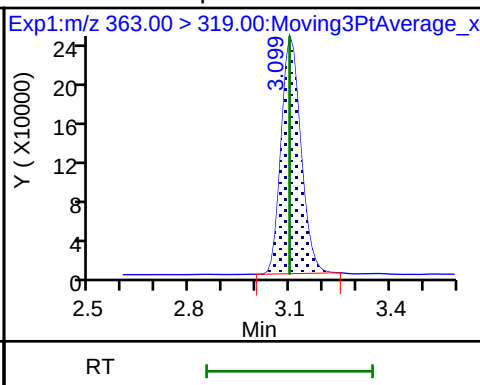
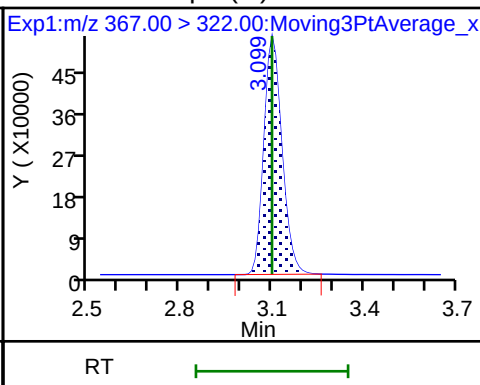
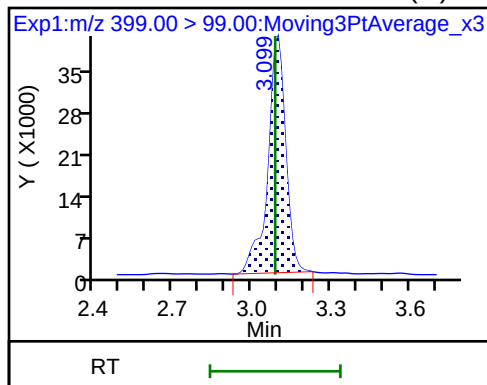
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA (M)

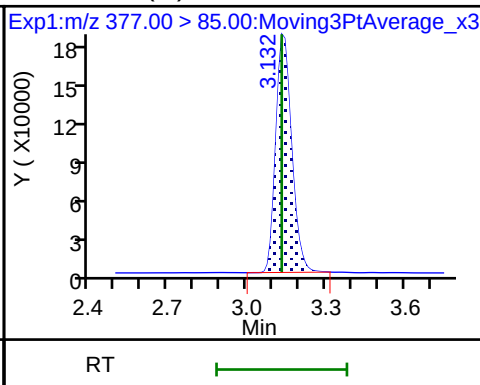
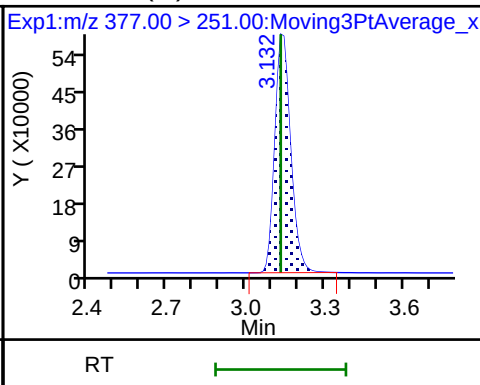
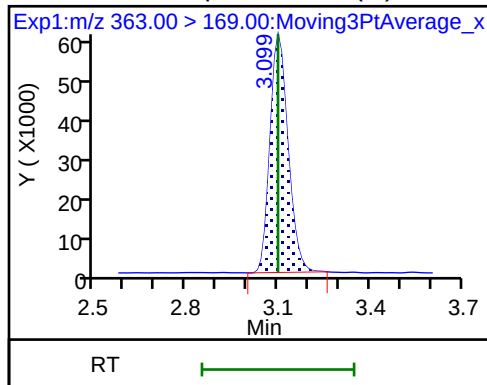
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid (M)

77 DONA (M)

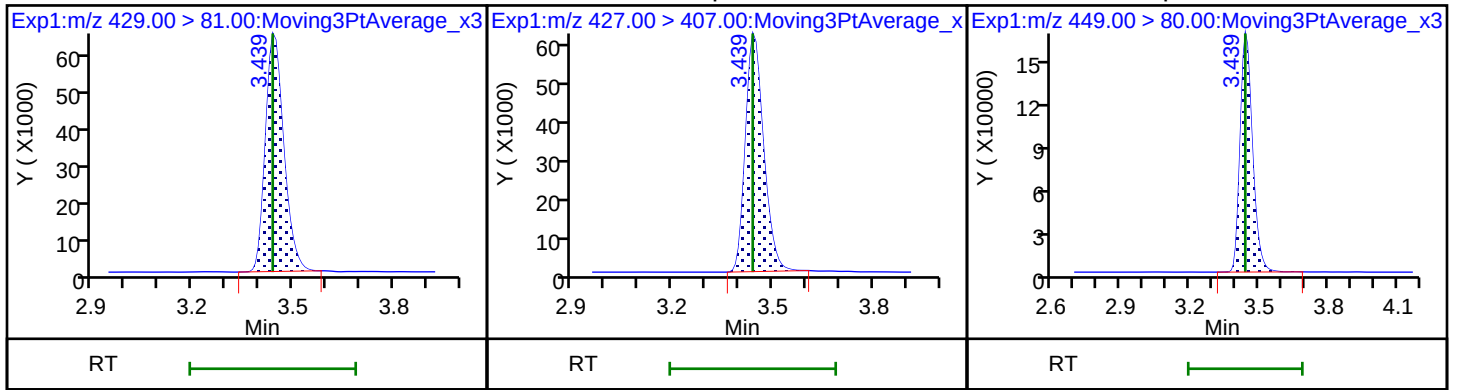
77 DONA (M)



D 12 M2-6:2 FTS

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

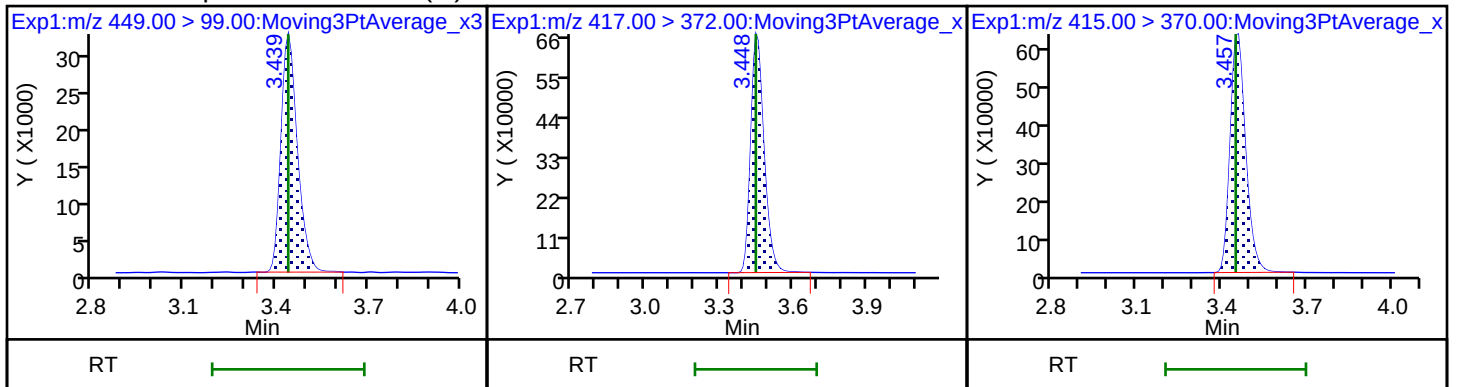
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

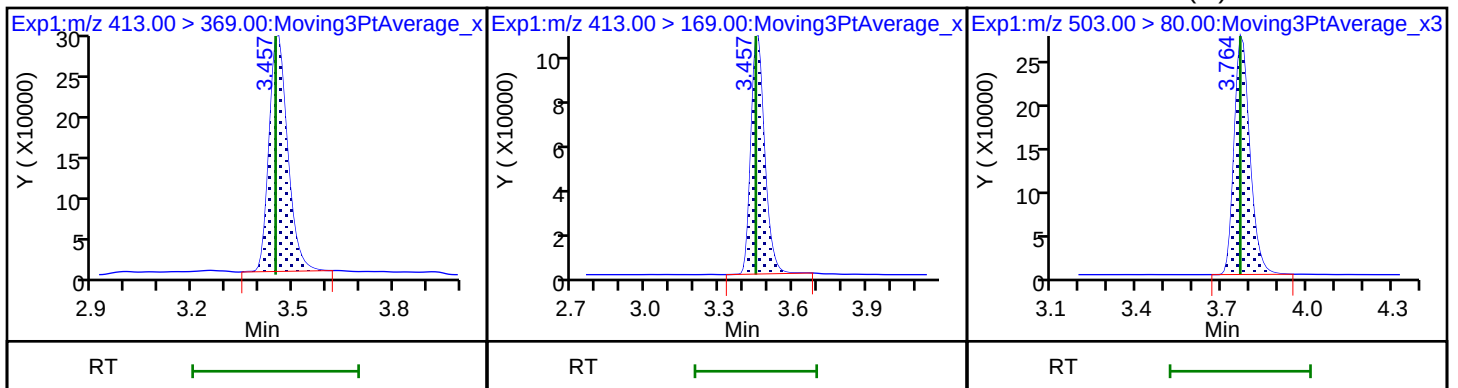
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

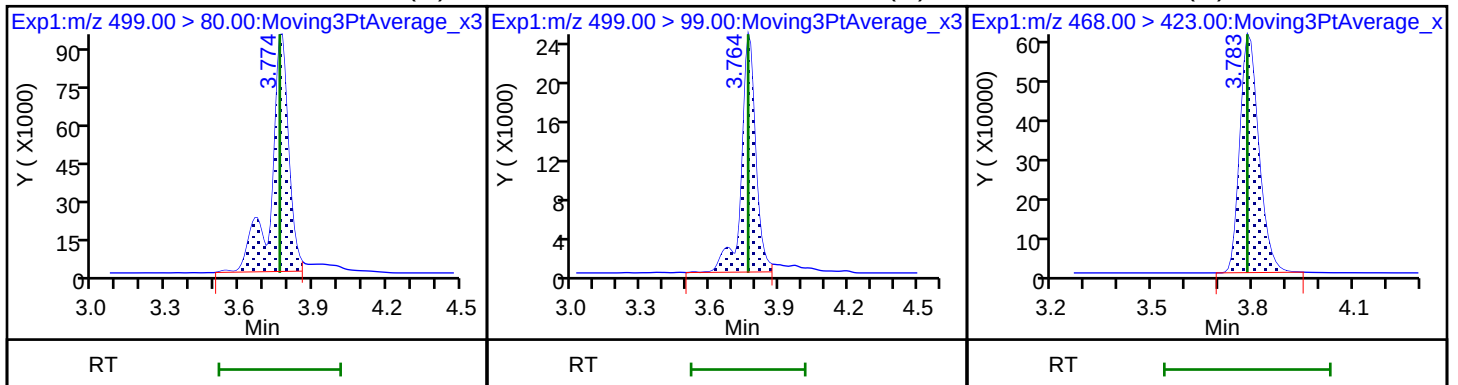
D 18 13C4 PFOS (M)

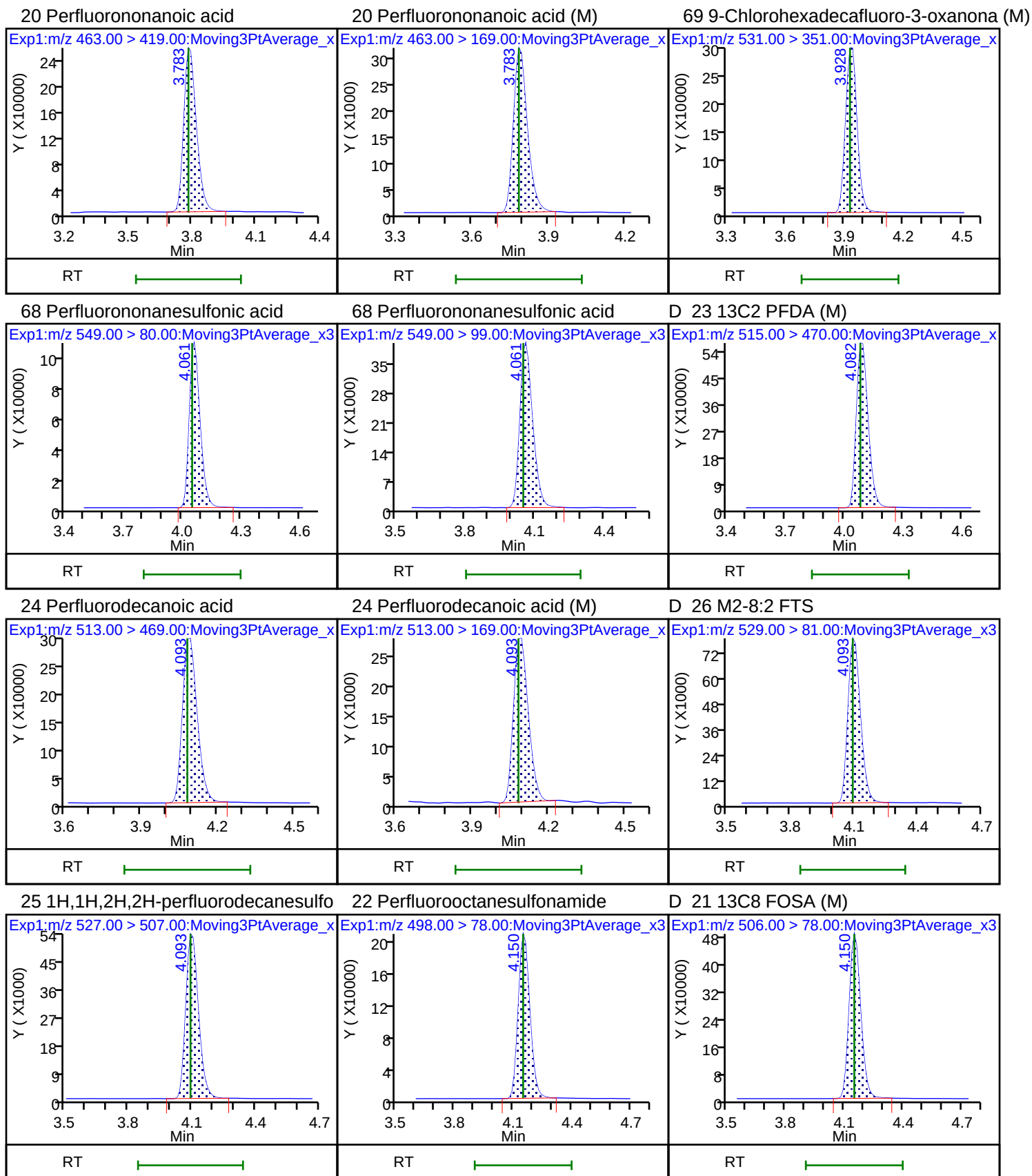


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA (M)

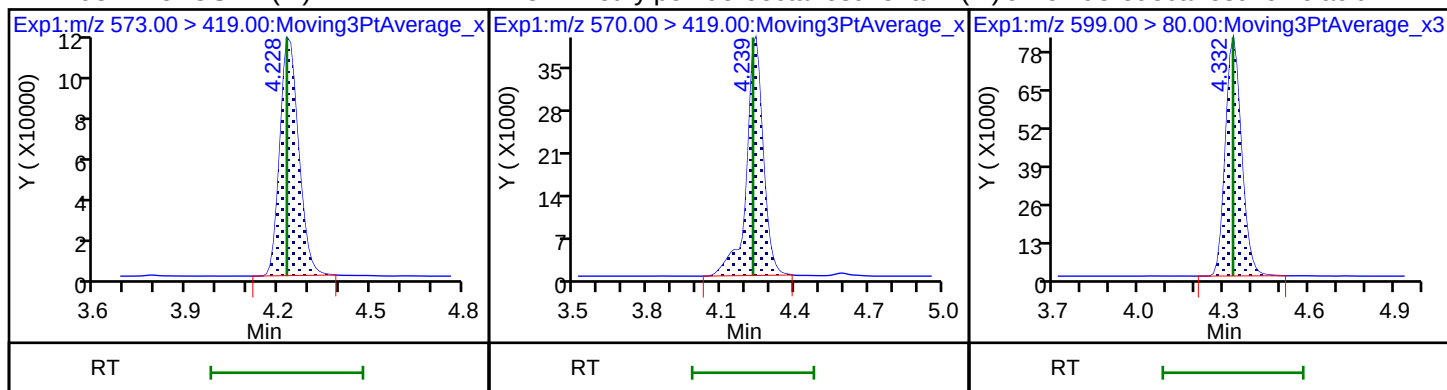




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

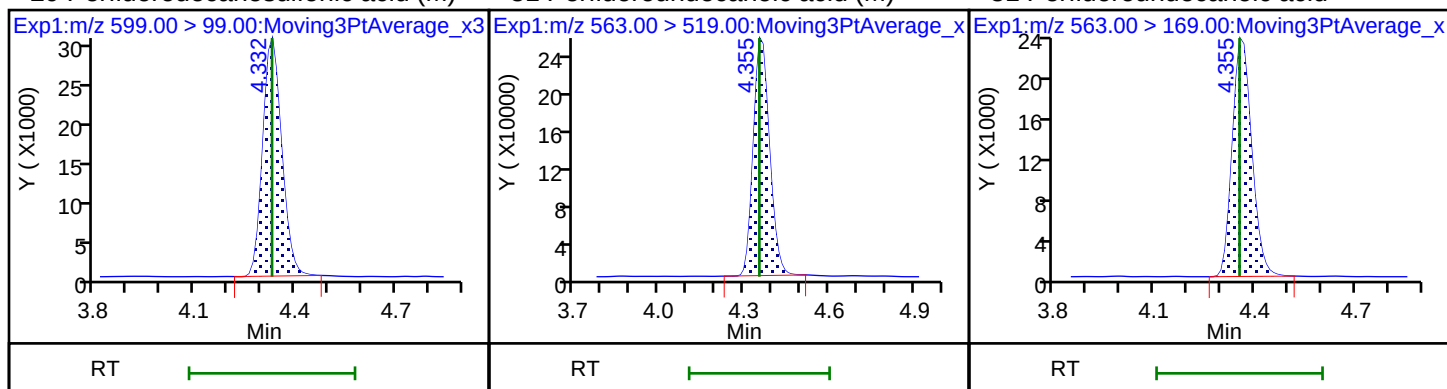
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

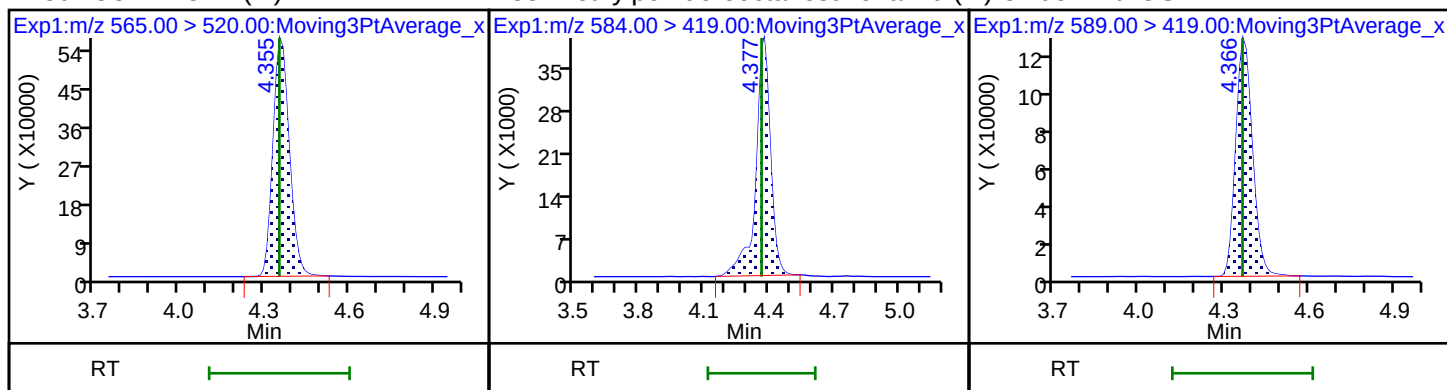
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA (M)

33 N-ethylperfluorooctanesulfonamid (M)

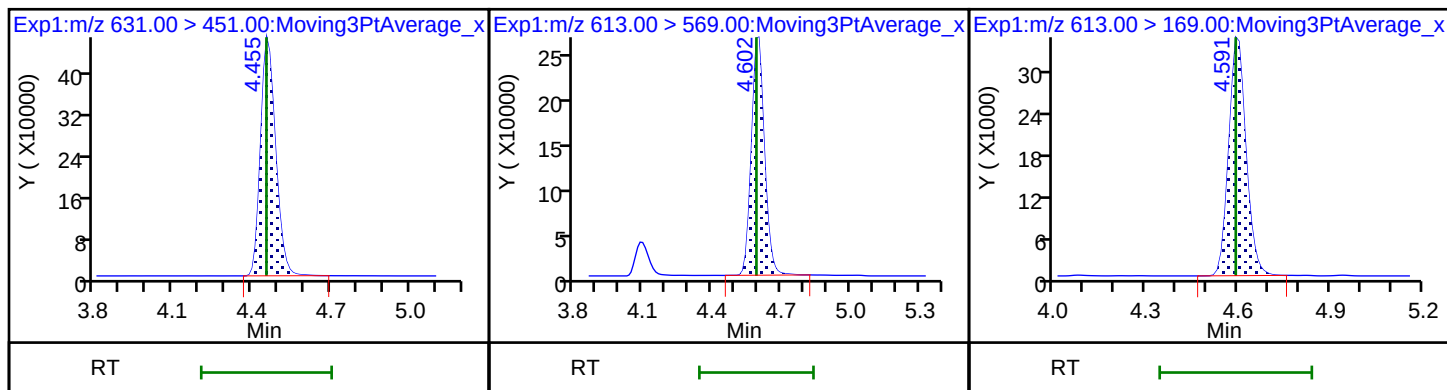
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

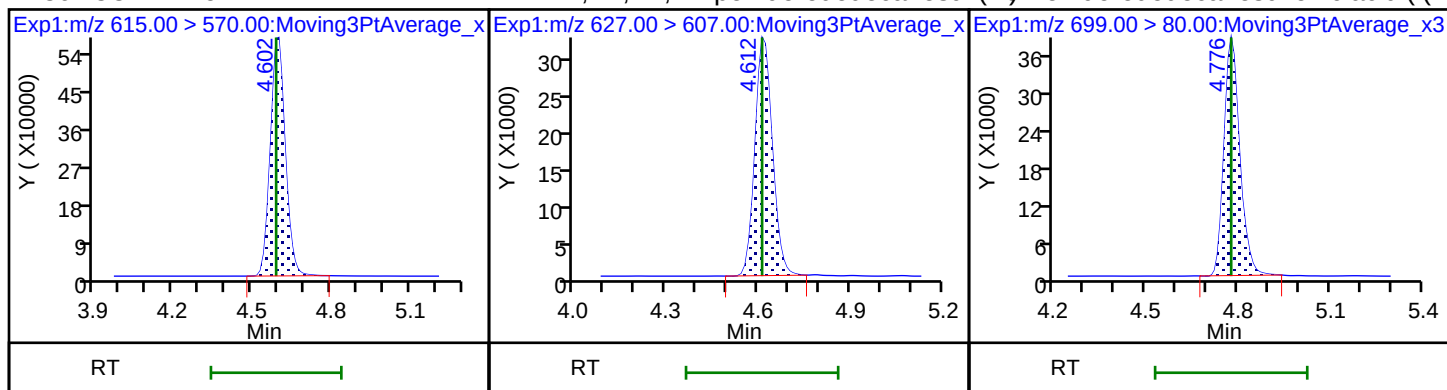
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



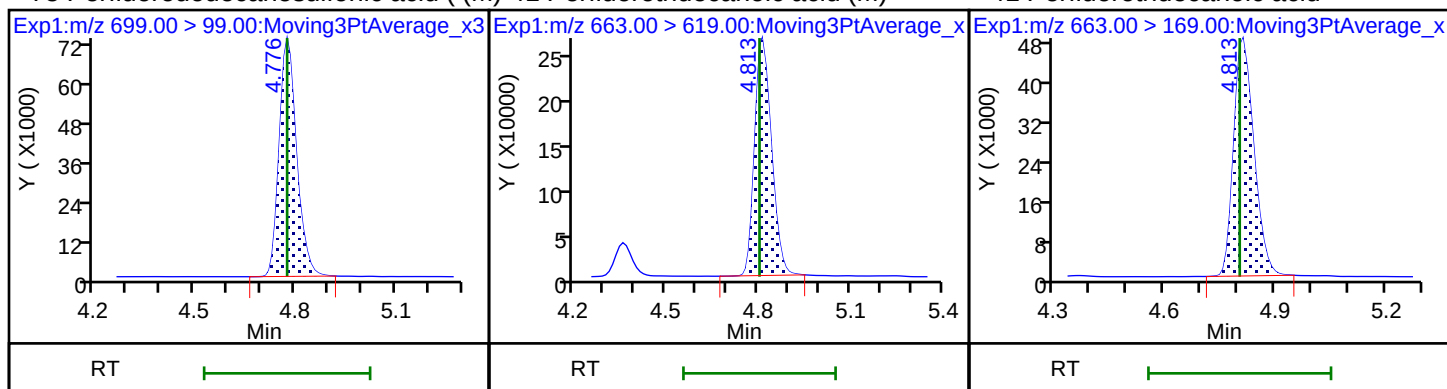
D 36 13C2 PFDaA

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



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

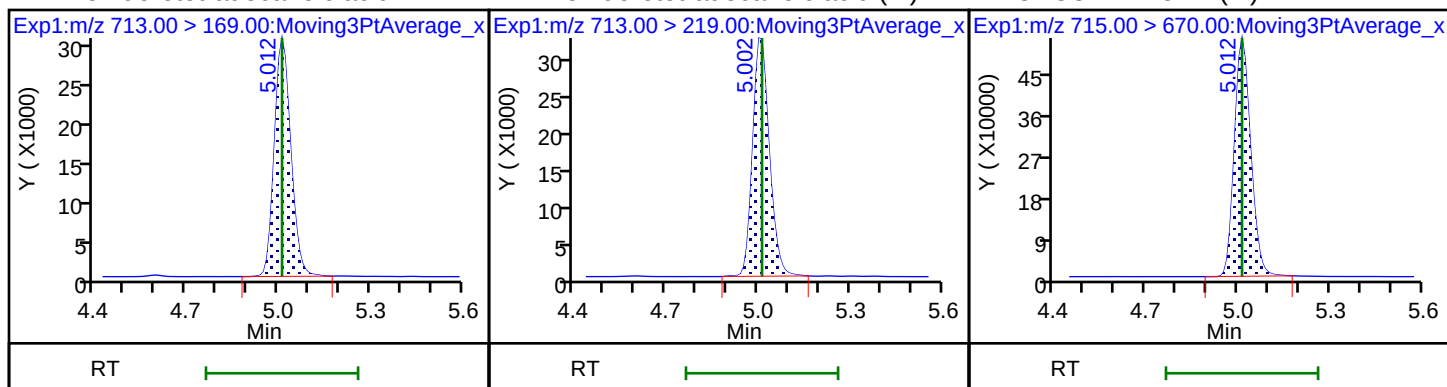
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

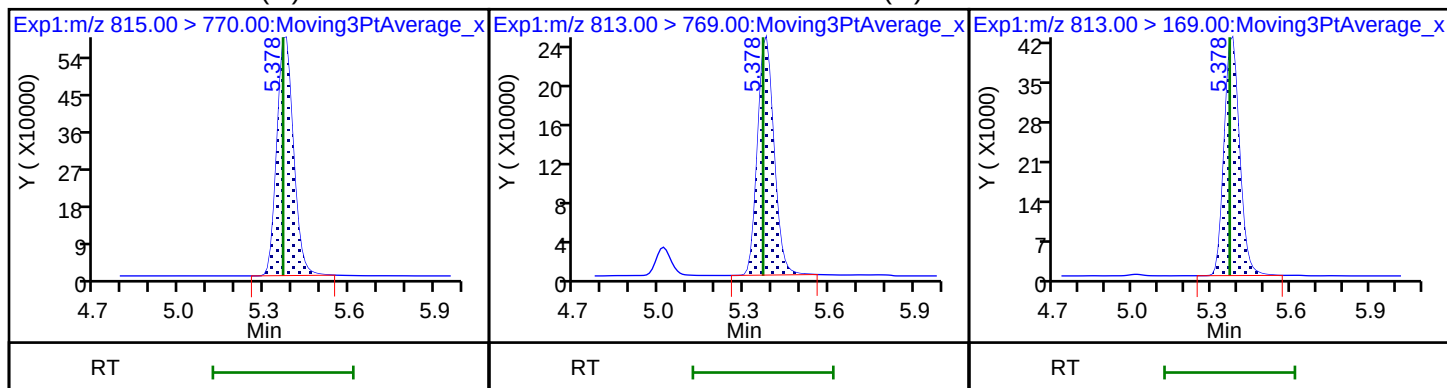
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

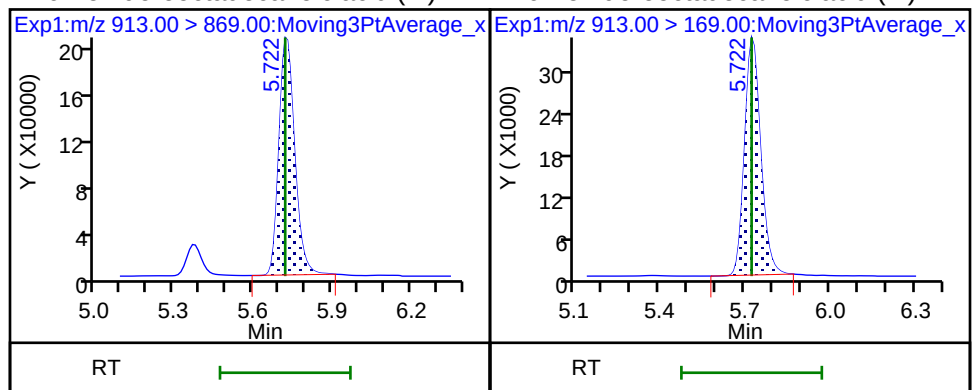
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

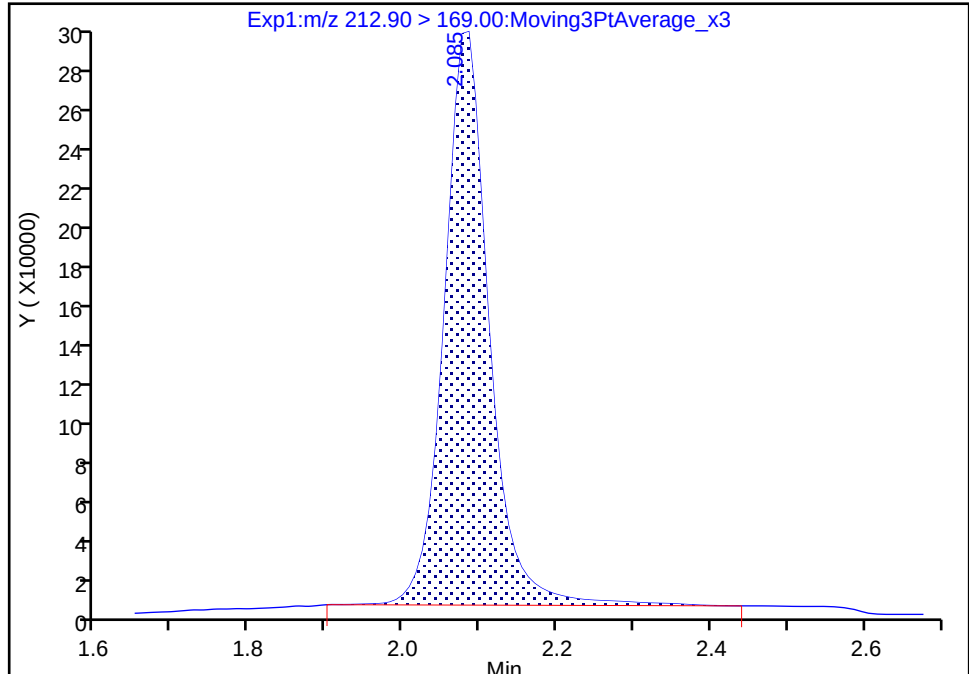
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

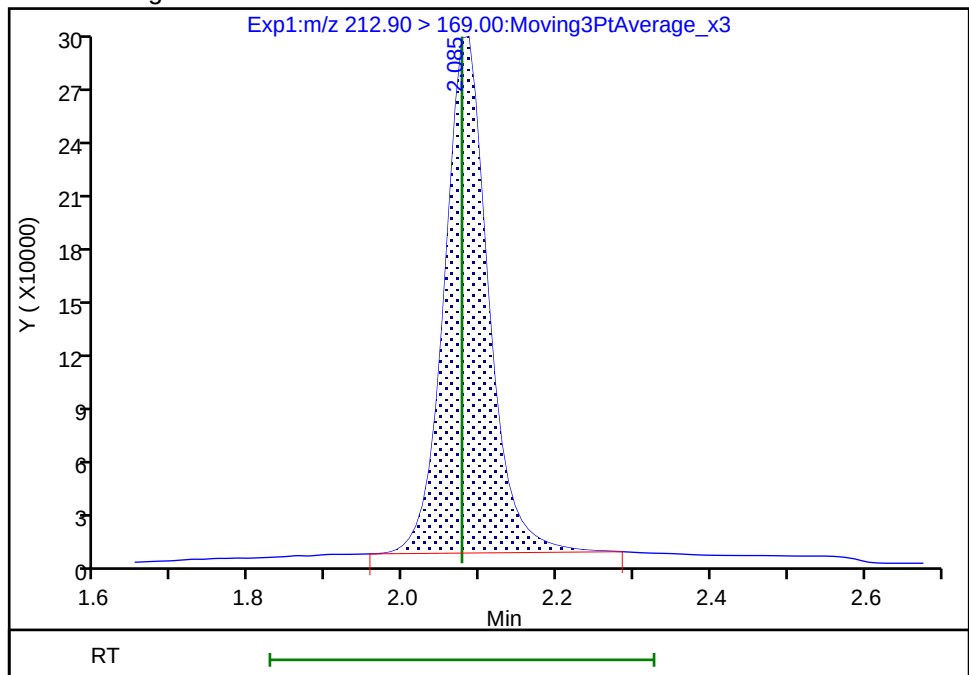
RT: 2.09
Area: 1168803
Amount: 0.489521
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1137760
Amount: 0.522928
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

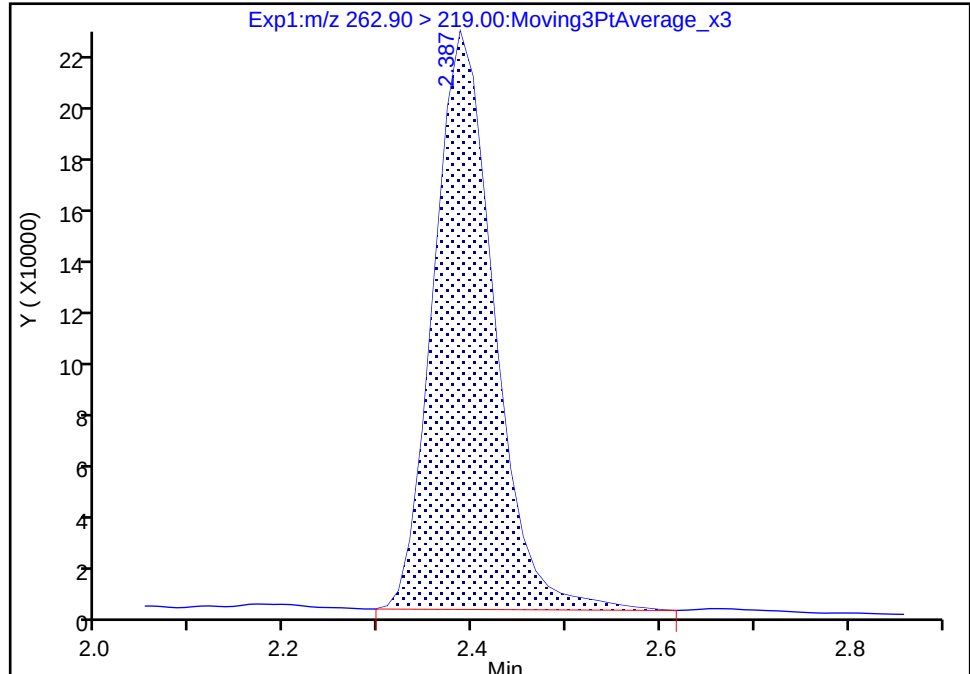
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

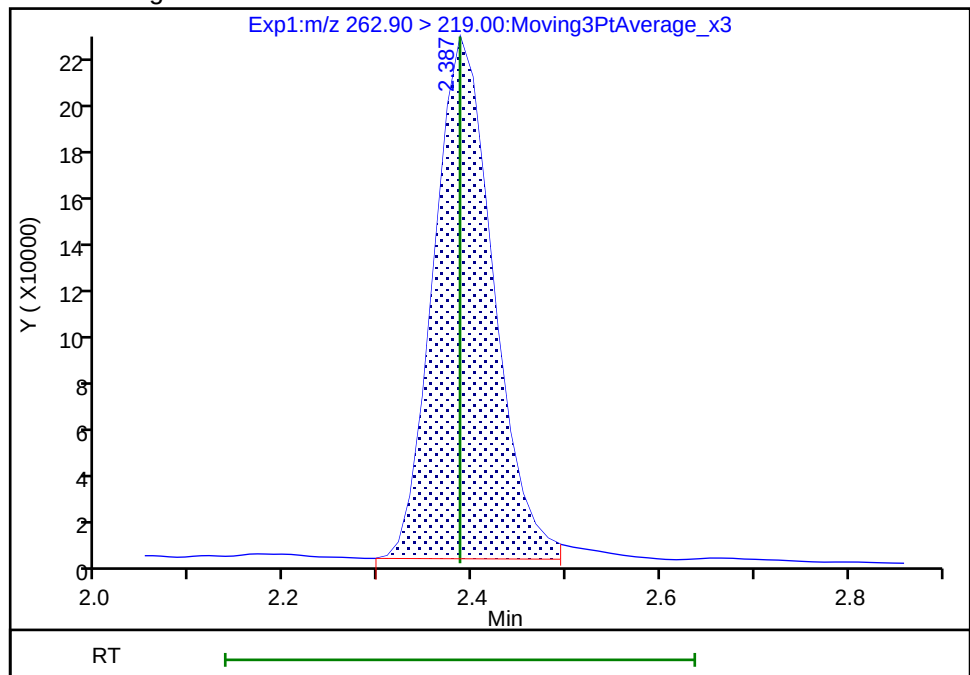
RT: 2.39
Area: 946379
Amount: 0.487855
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 929016
Amount: 0.519176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

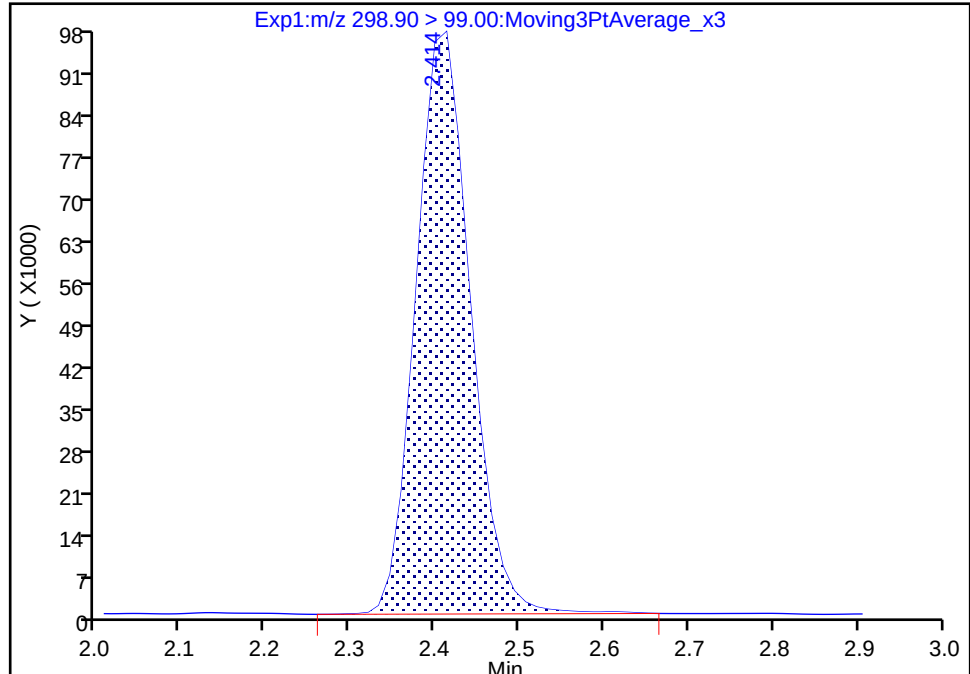
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

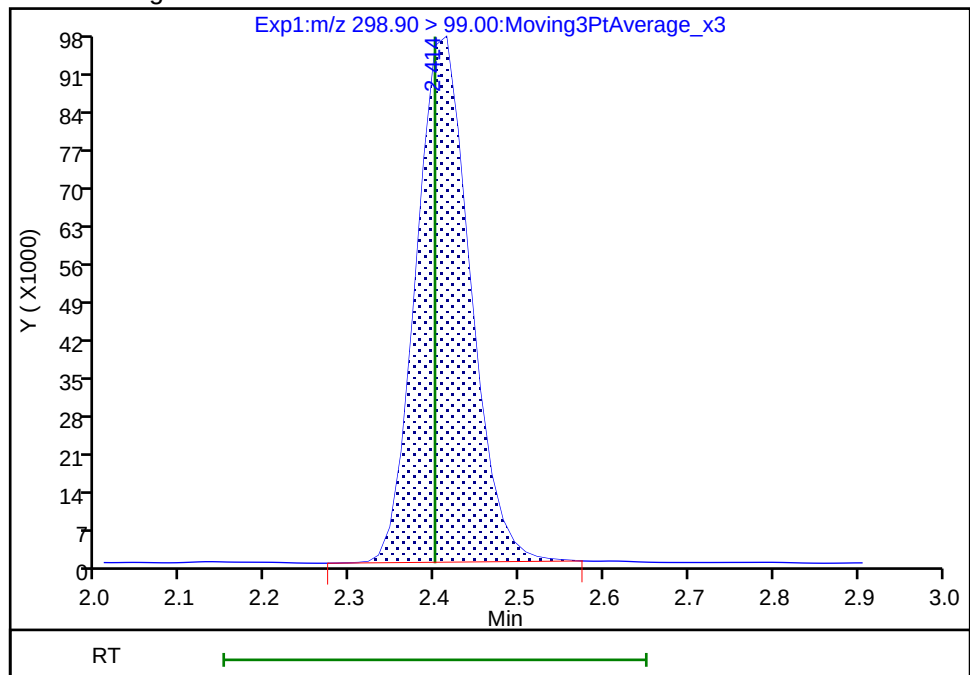
RT: 2.41
Area: 434508
Amount: 0.422187
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 430748
Amount: 0.448102
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

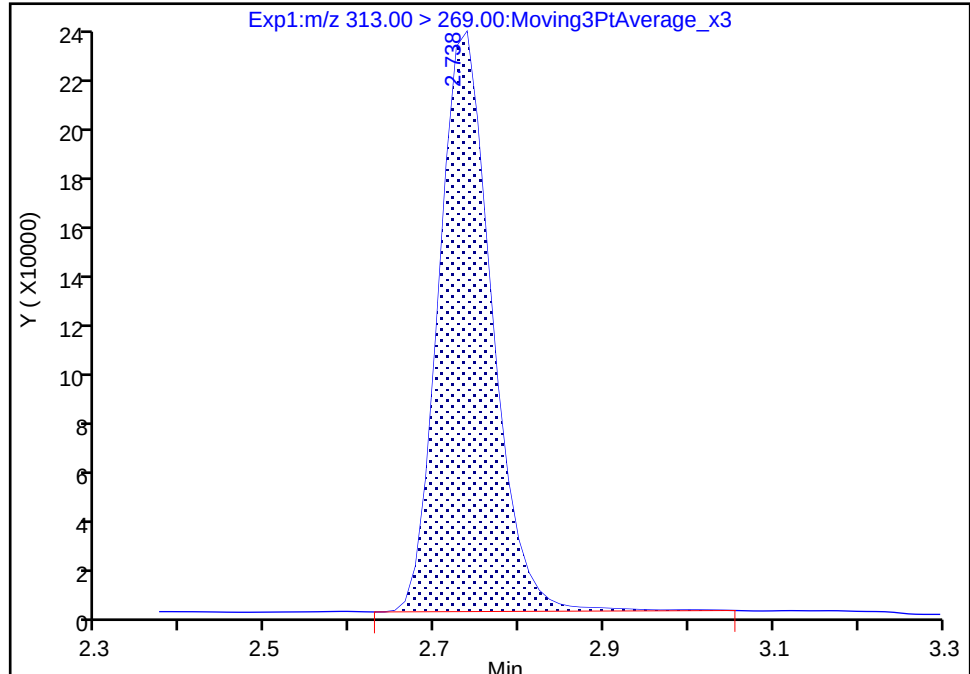
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

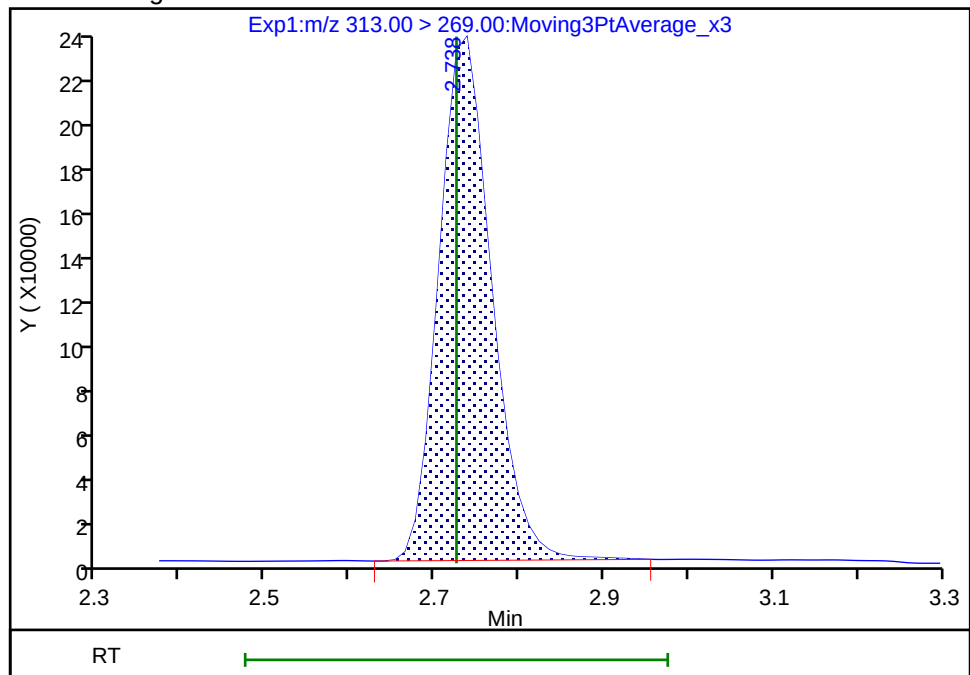
RT: 2.74
Area: 996443
Amount: 0.493667
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 992048
Amount: 0.522700
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

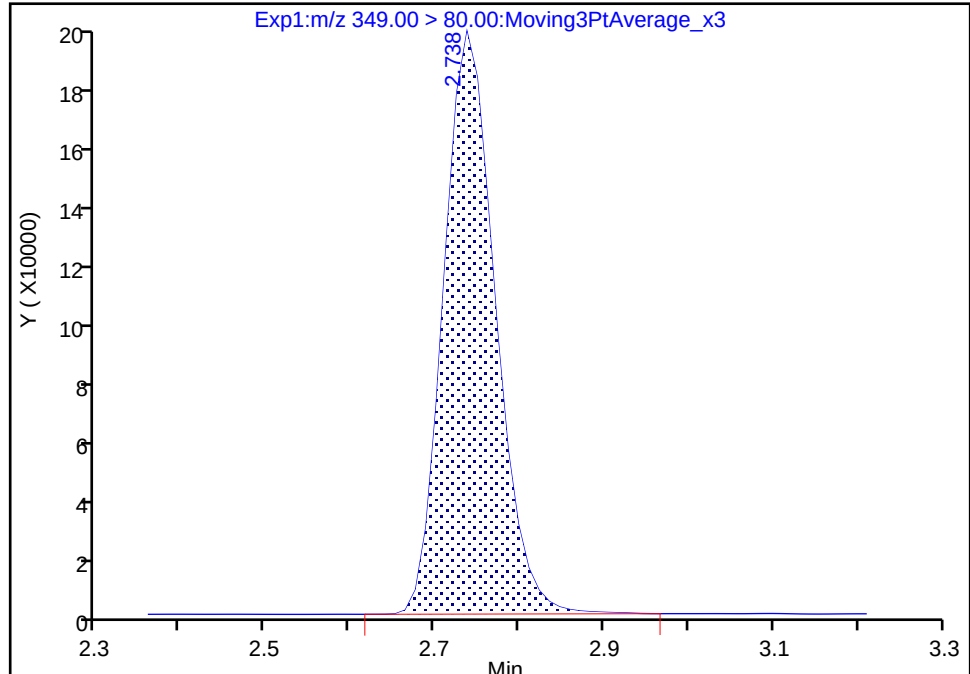
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

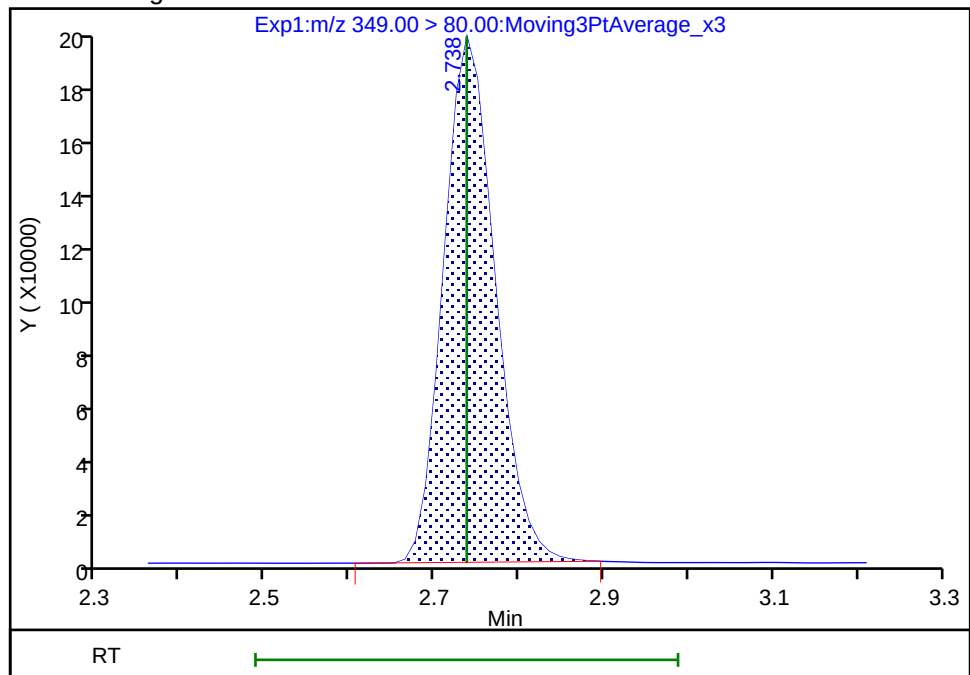
RT: 2.74
Area: 843222
Amount: 0.480975
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 837304
Amount: 0.502827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

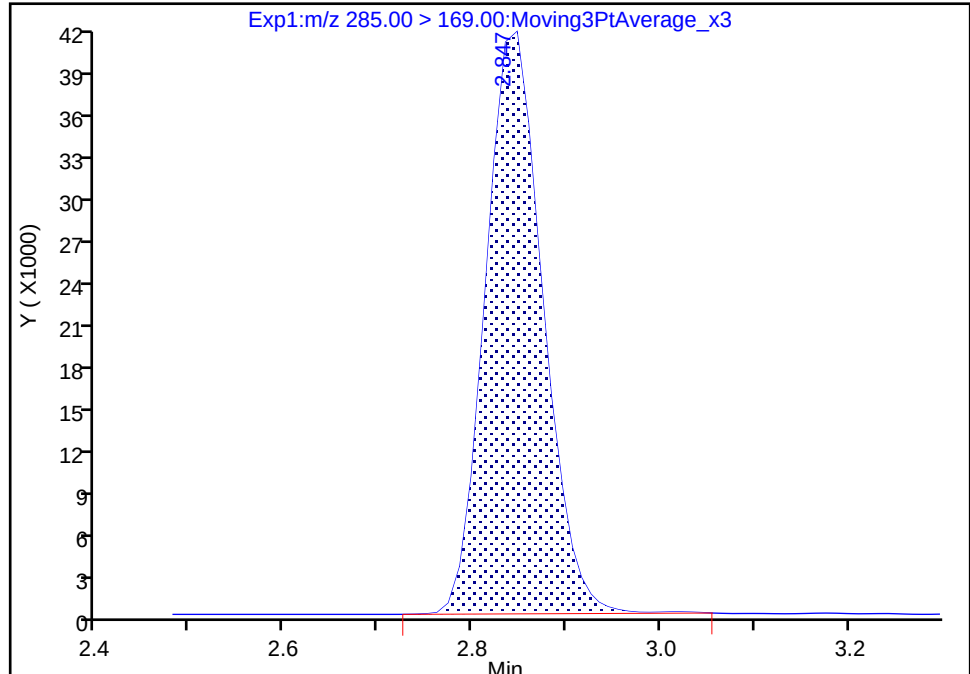
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

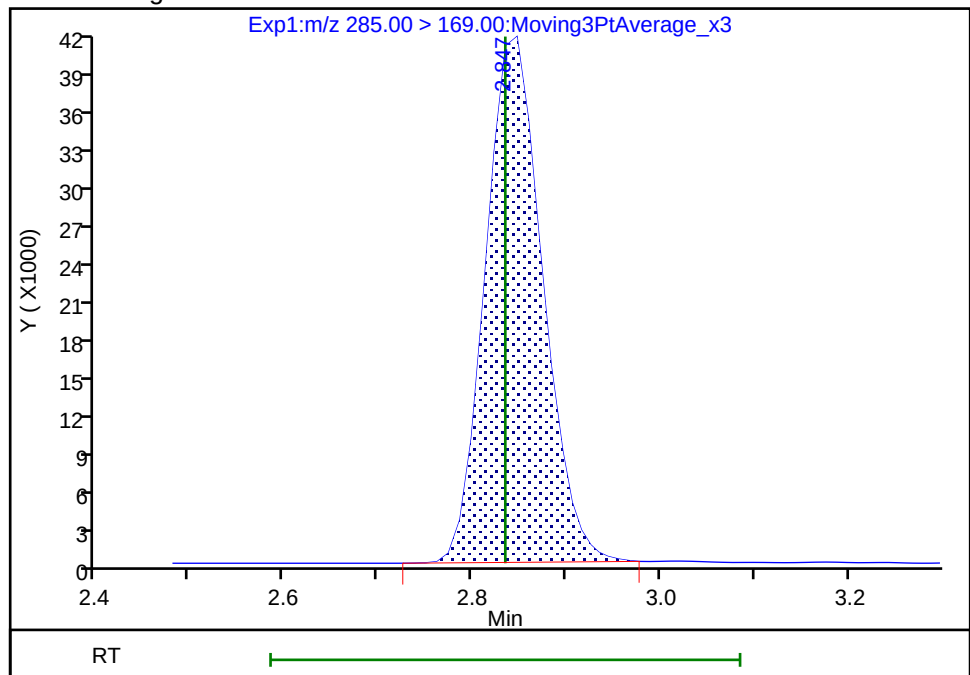
RT: 2.85
Area: 175711
Amount: 0.510805
Amount Units: ng/ml

Processing Integration Results



RT: 2.85
Area: 174879
Amount: 0.546316
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

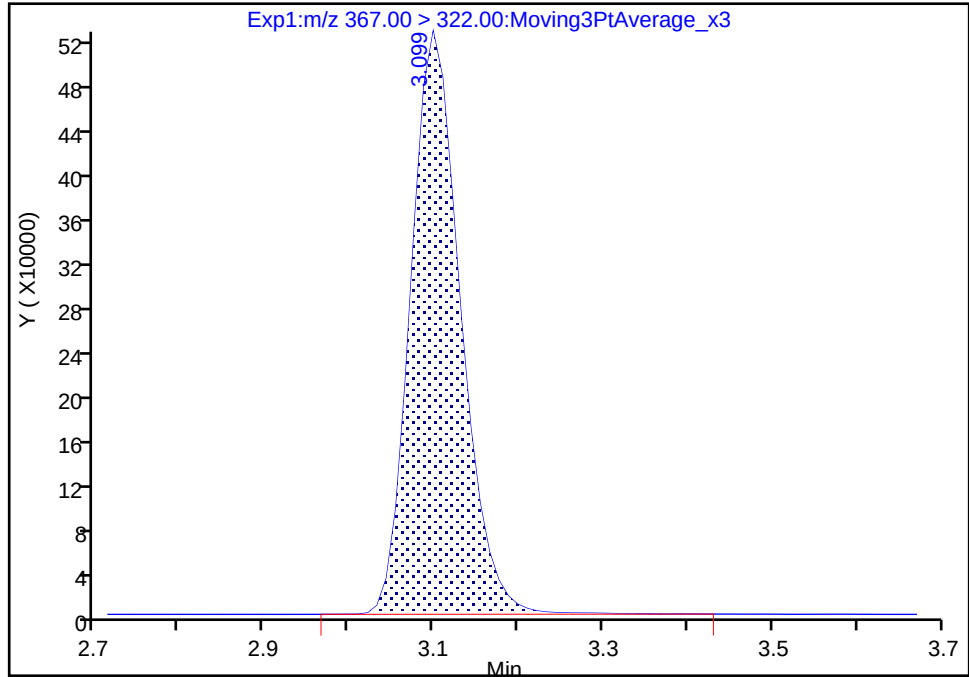
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

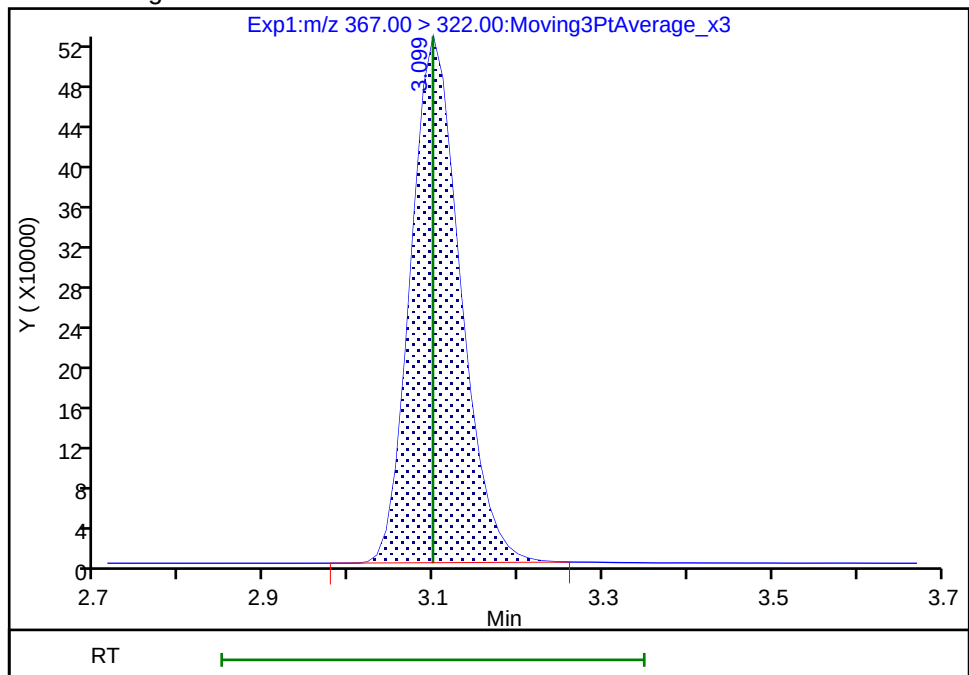
RT: 3.10
Area: 2162805
Amount: 1.248507
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
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Amount: 1.220333
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

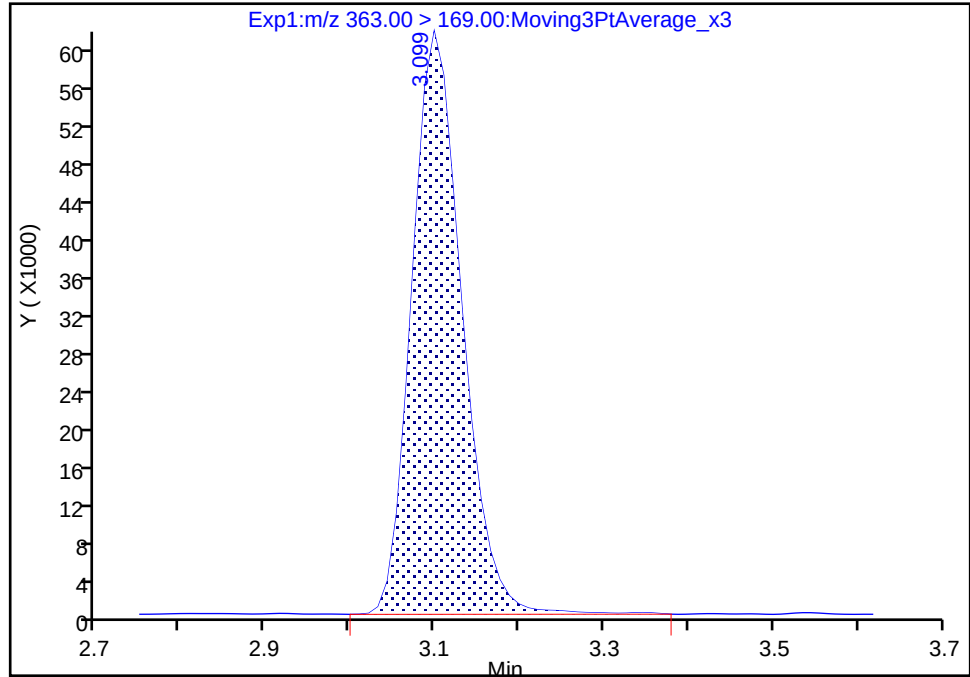
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

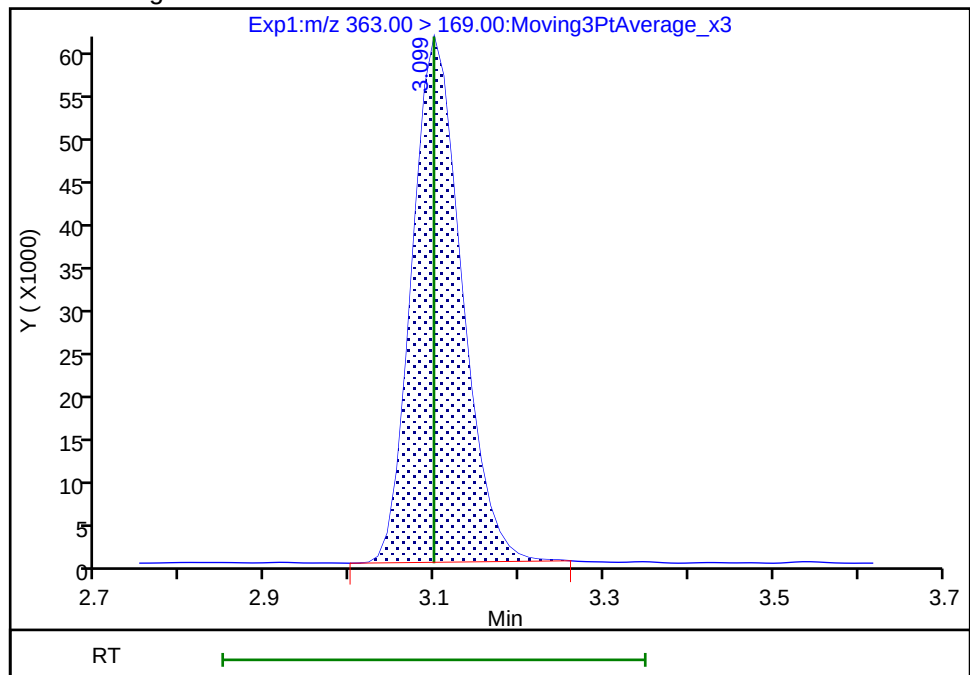
RT: 3.10
Area: 254758
Amount: 0.495820
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 251672
Amount: 0.535731
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

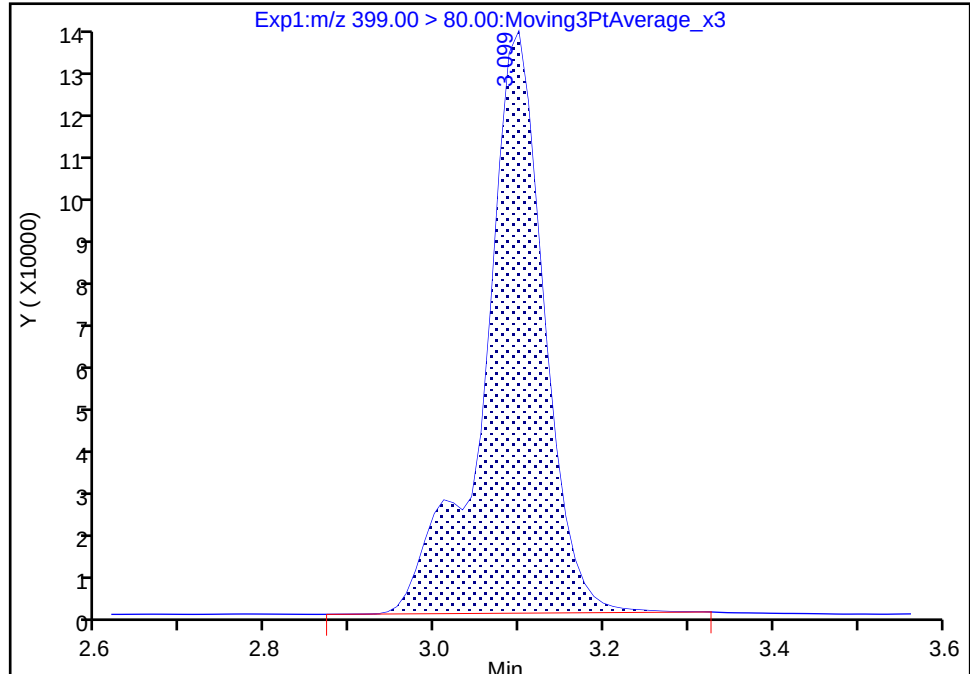
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

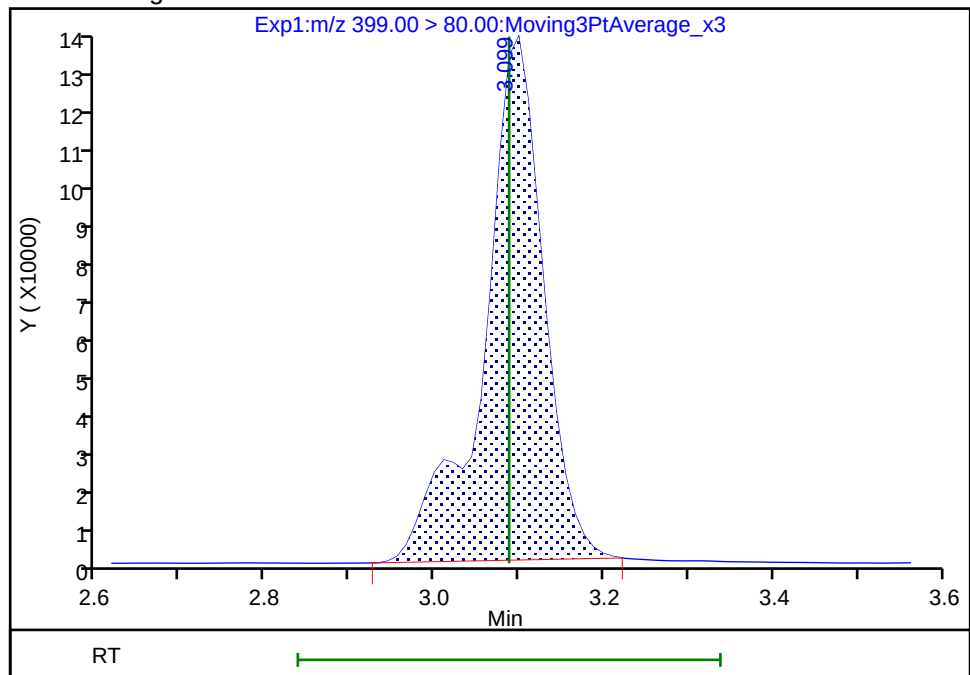
RT: 3.10
Area: 690915
Amount: 0.467335
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 680406
Amount: 0.483465
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

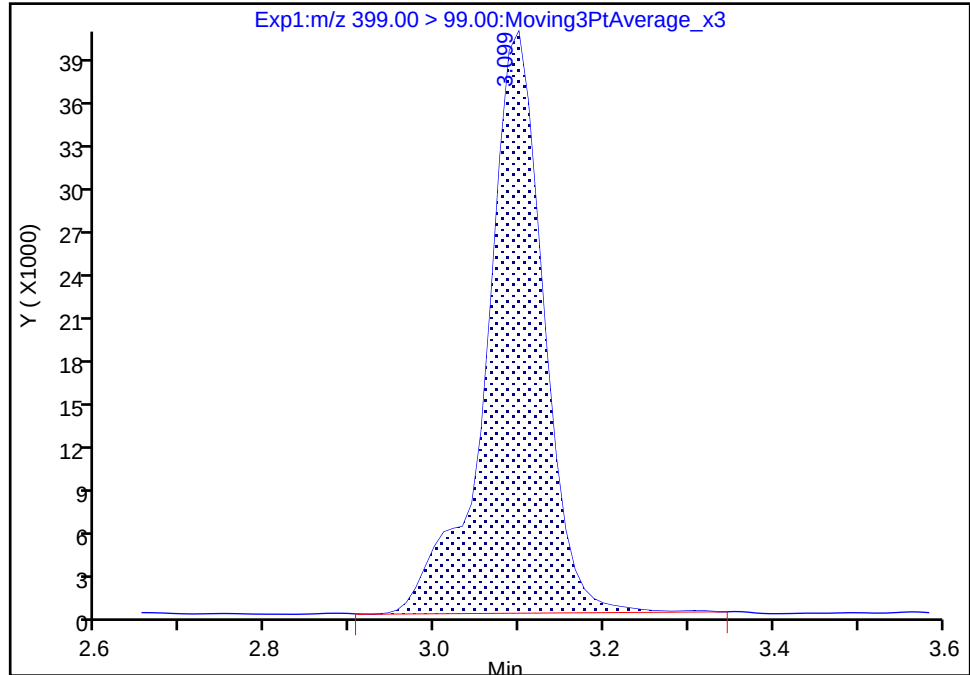
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Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

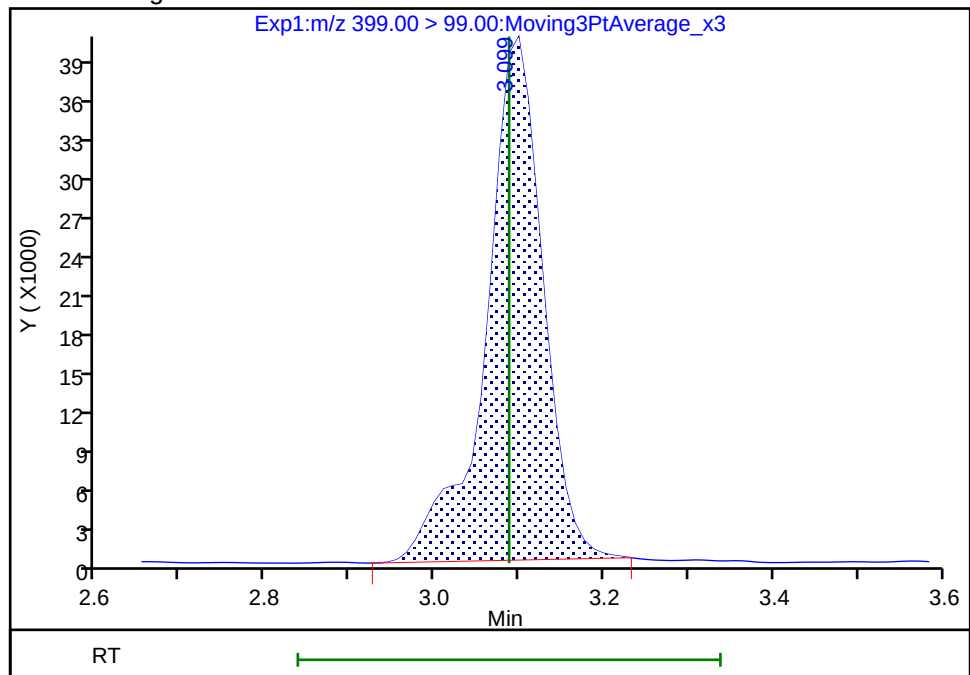
RT: 3.10
Area: 188640
Amount: 0.467335
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 185398
Amount: 0.483465
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

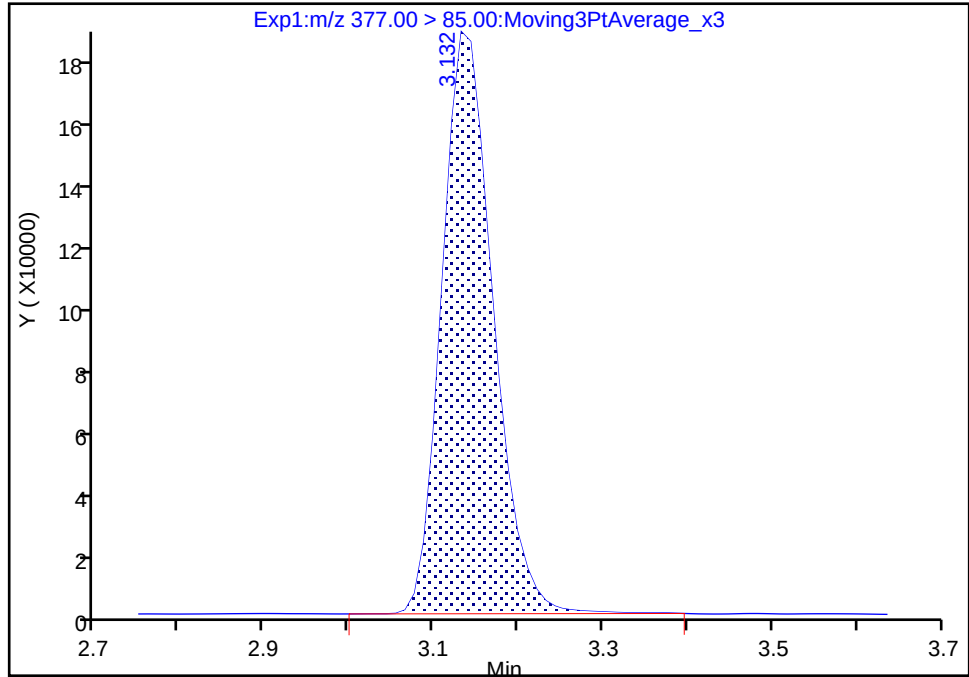
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

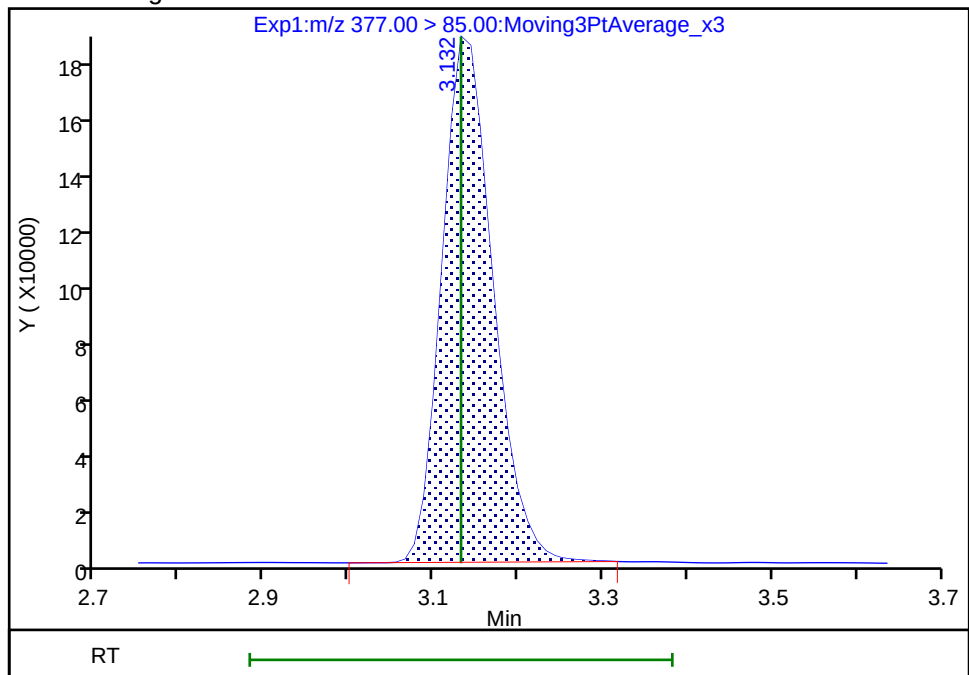
RT: 3.13
Area: 764336
Amount: 0.467942
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 760123
Amount: 0.505022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

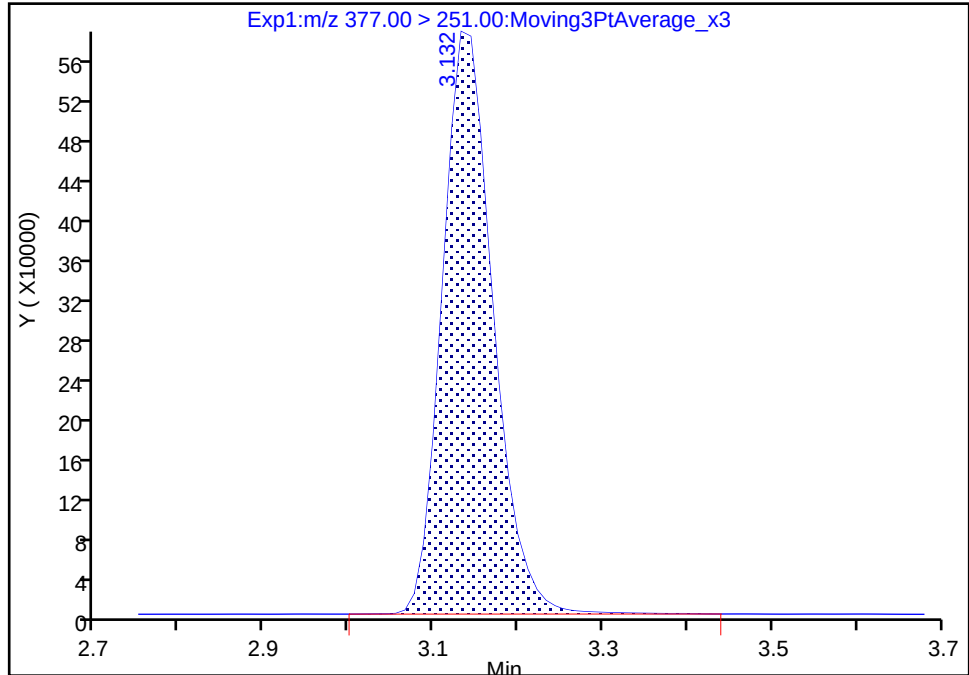
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

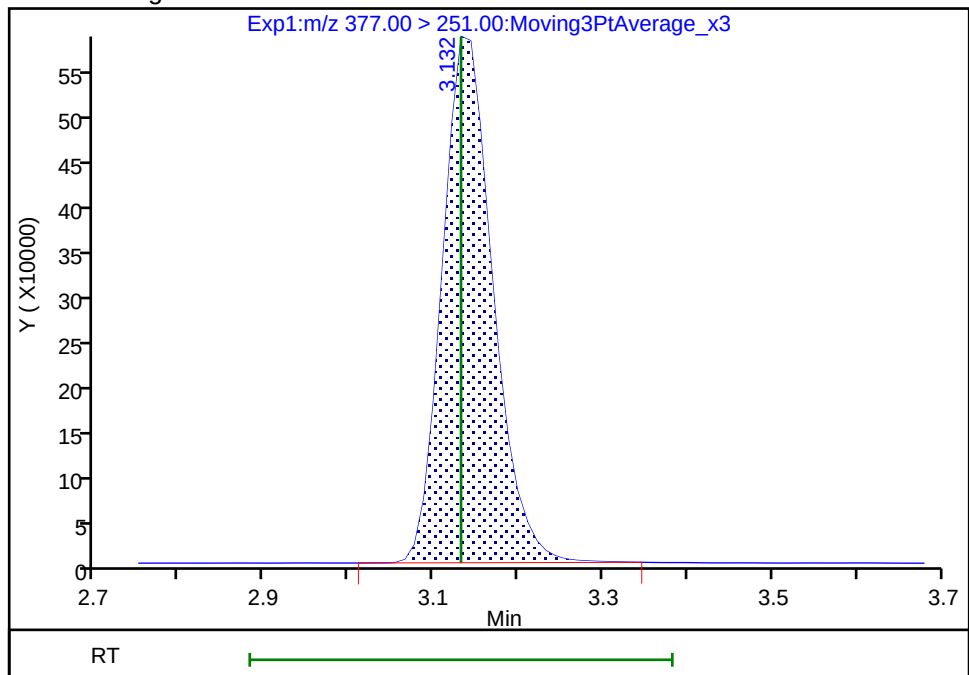
RT: 3.13
Area: 2417717
Amount: 0.467942
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 2408962
Amount: 0.505022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

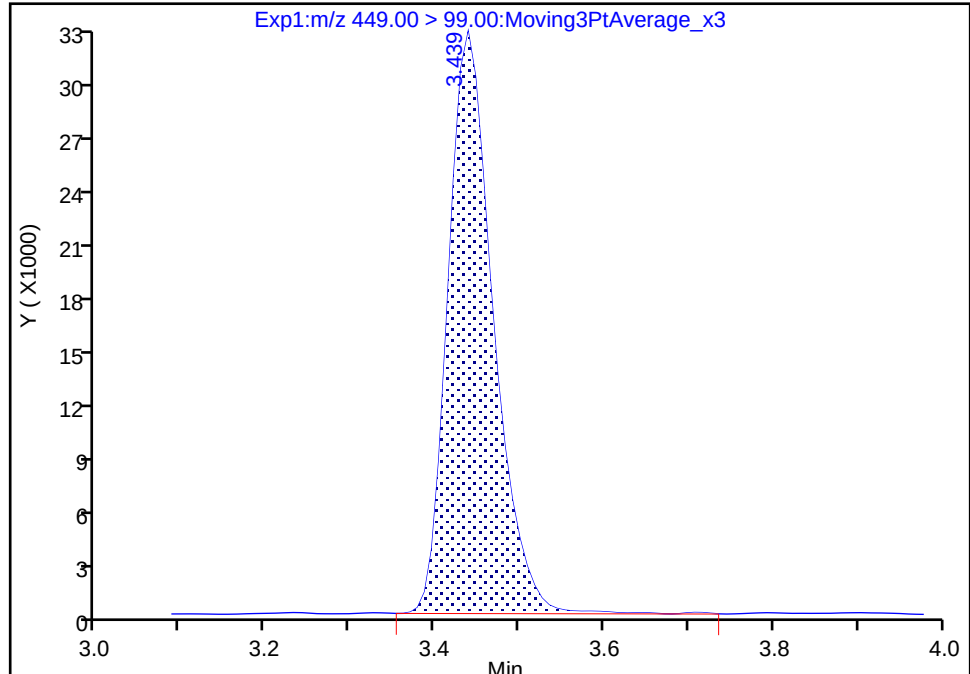
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

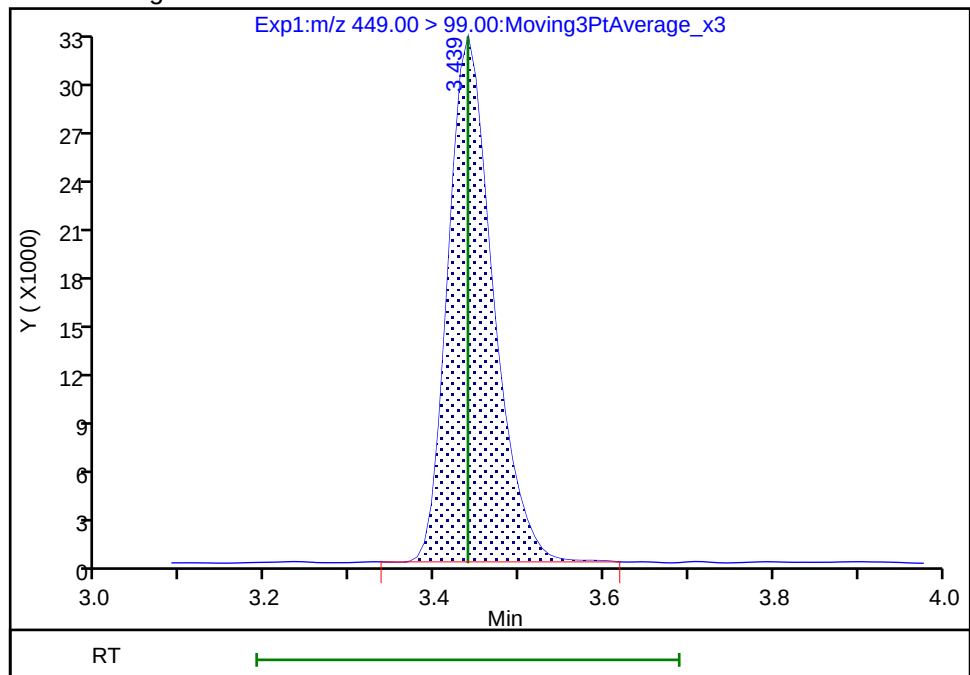
RT: 3.44
Area: 121485
Amount: 0.478403
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 120467
Amount: 0.509588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

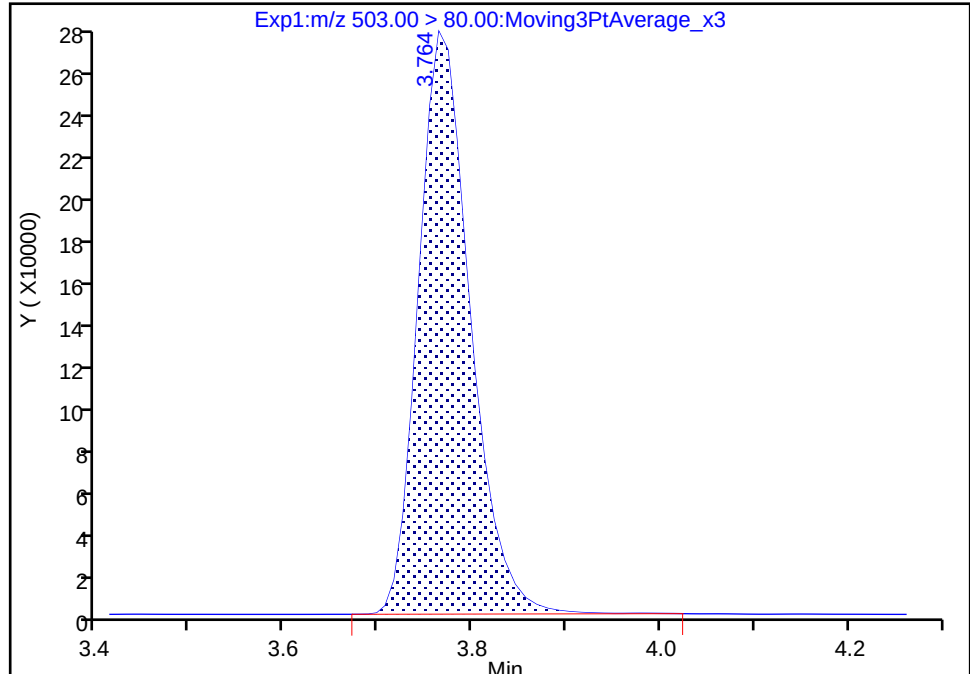
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

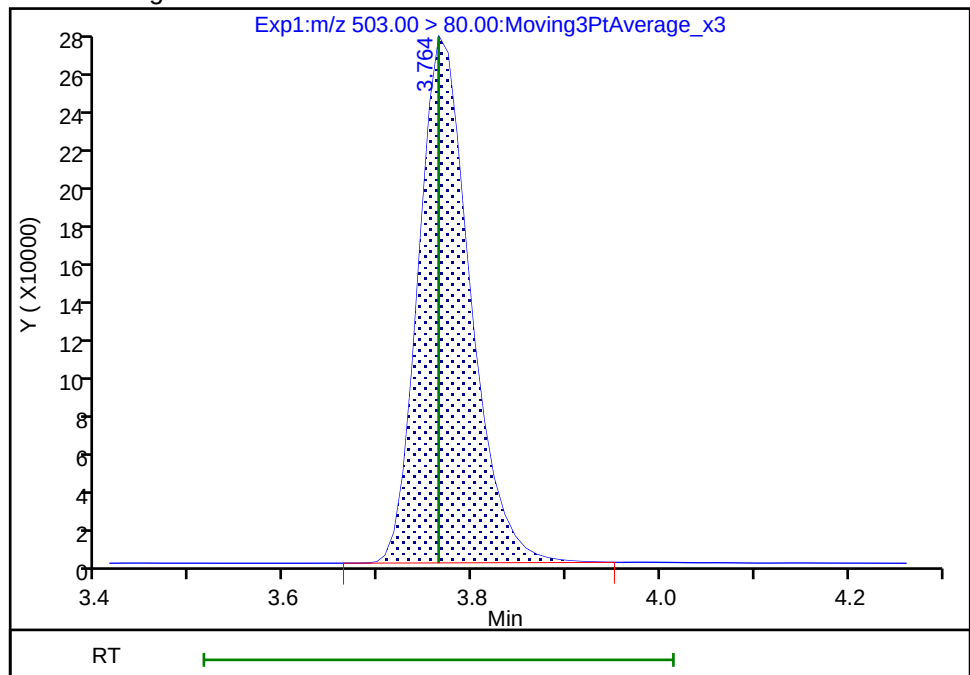
RT: 3.76
Area: 1037255
Amount: 1.197303
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1035061
Amount: 1.178802
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

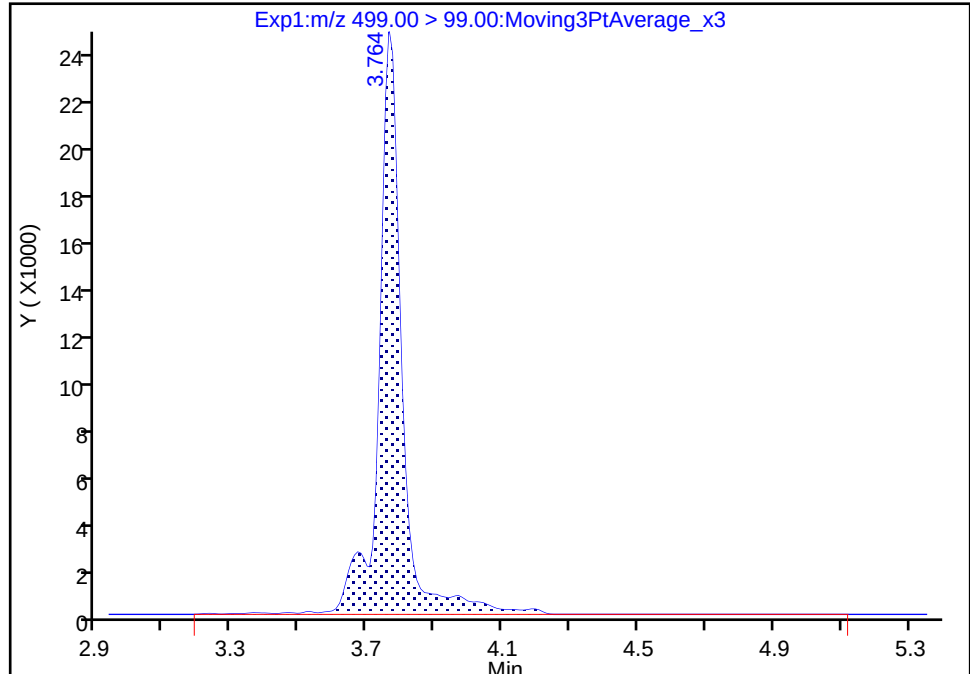
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

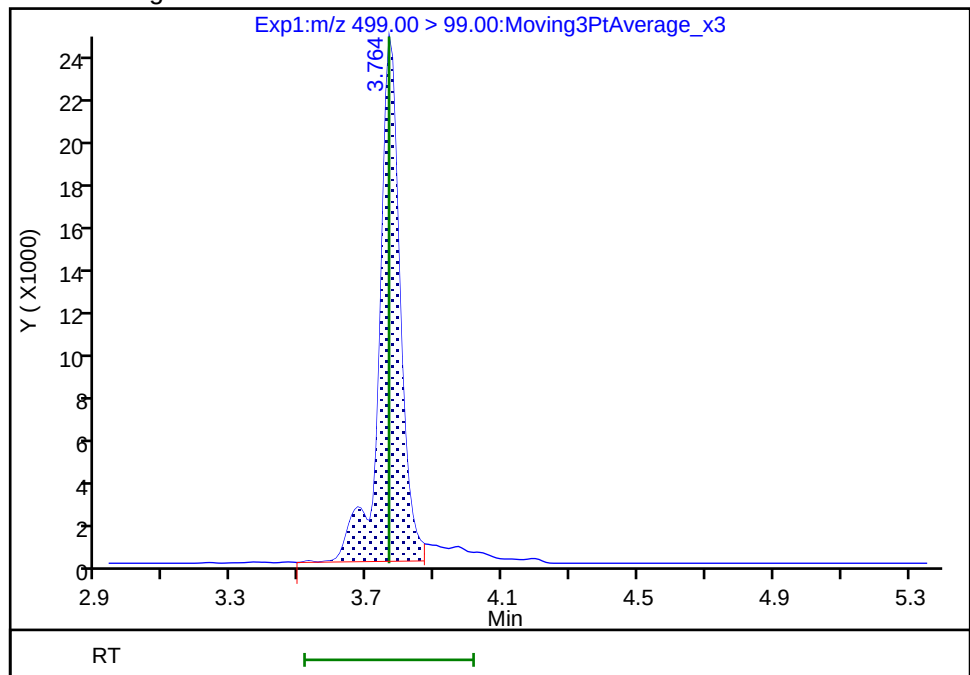
RT: 3.76
Area: 115041
Amount: 0.450182
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 103252
Amount: 0.447970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

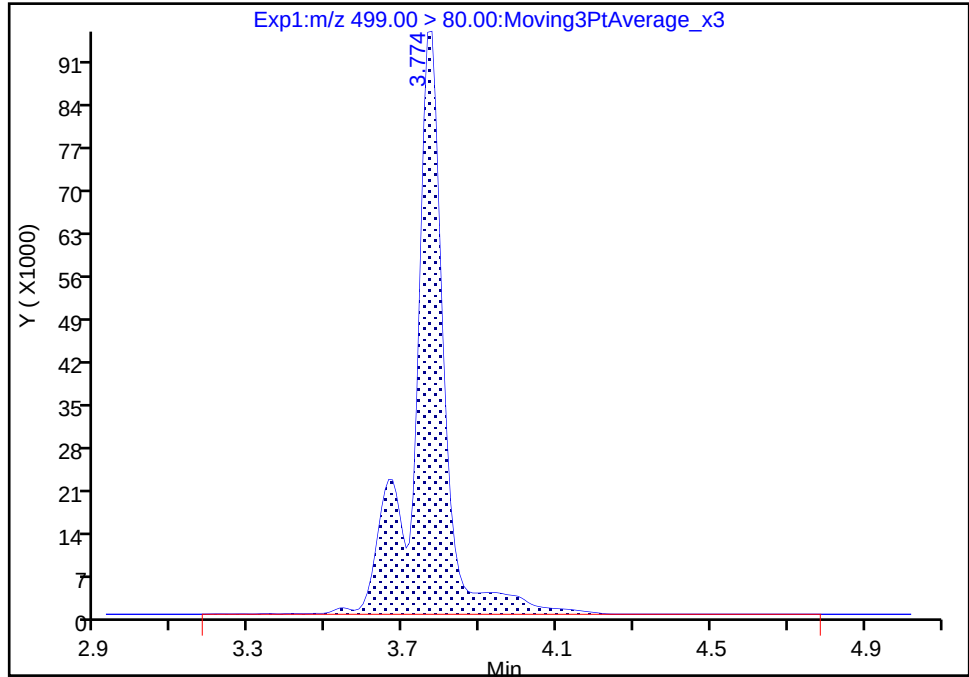
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

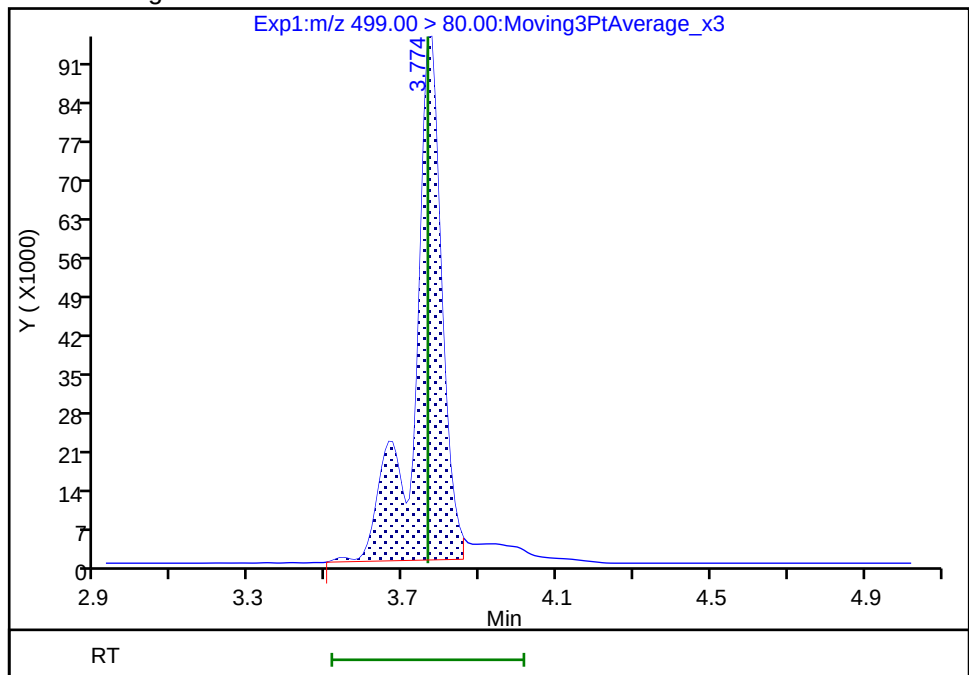
RT: 3.77
Area: 524529
Amount: 0.450182
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 471879
Amount: 0.447970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

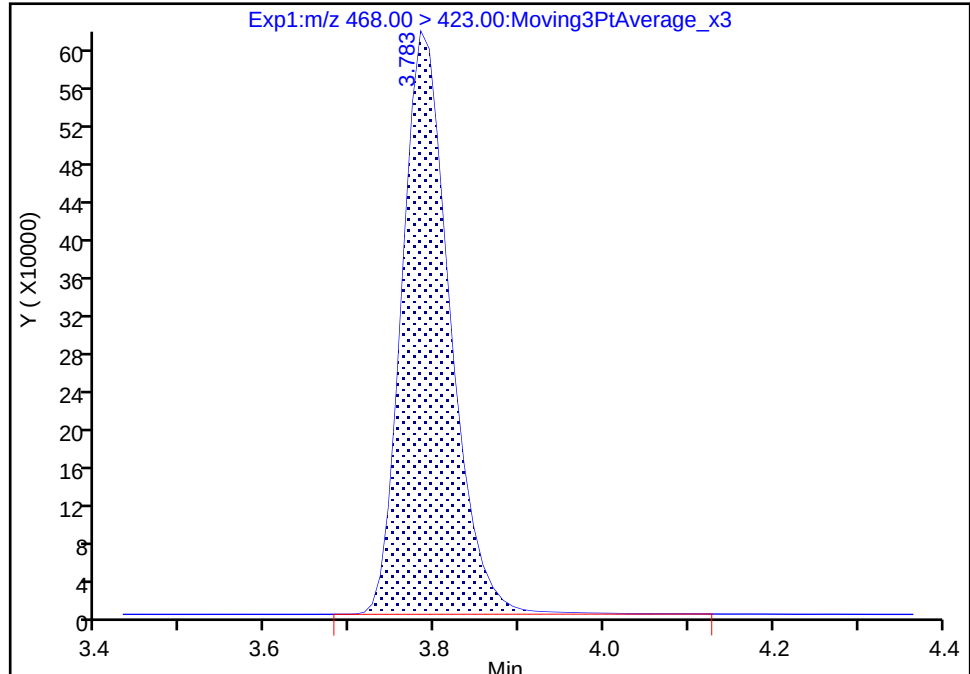
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

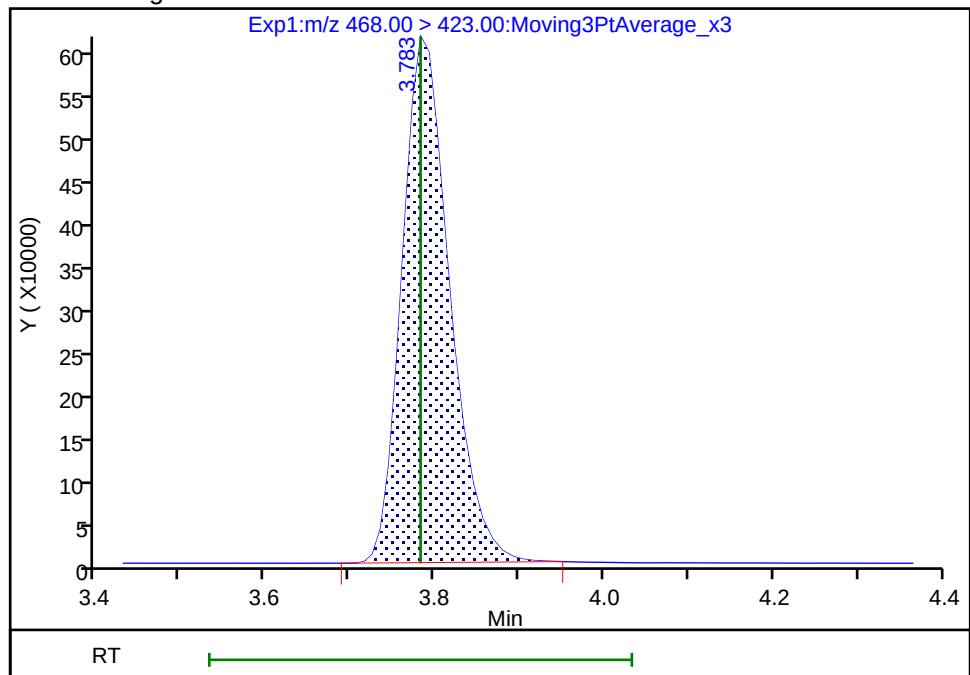
RT: 3.78
Area: 2398141
Amount: 1.248889
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2379680
Amount: 1.236174
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

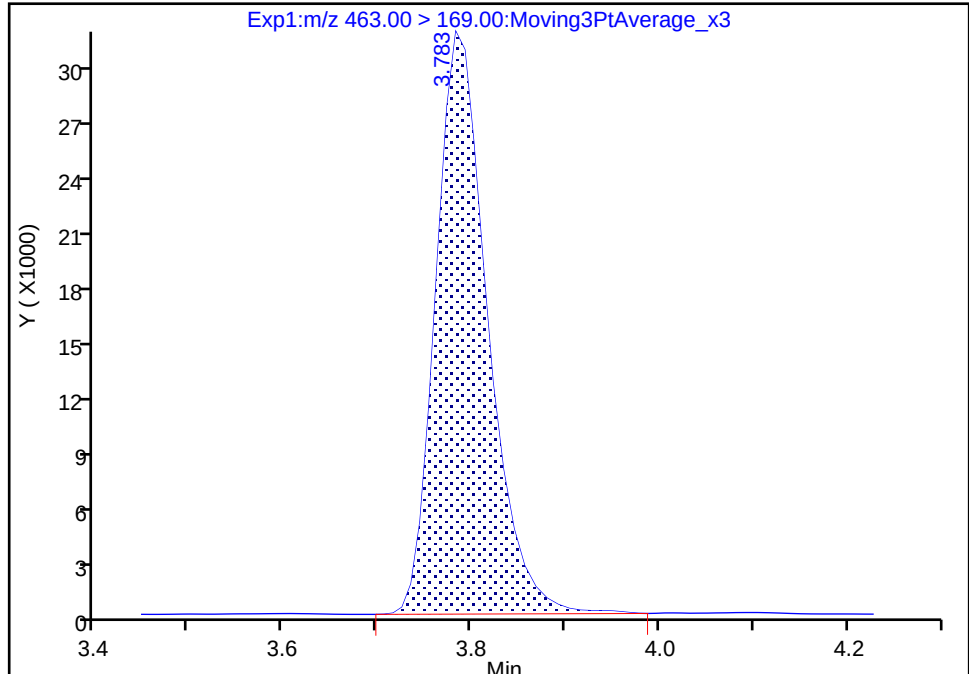
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

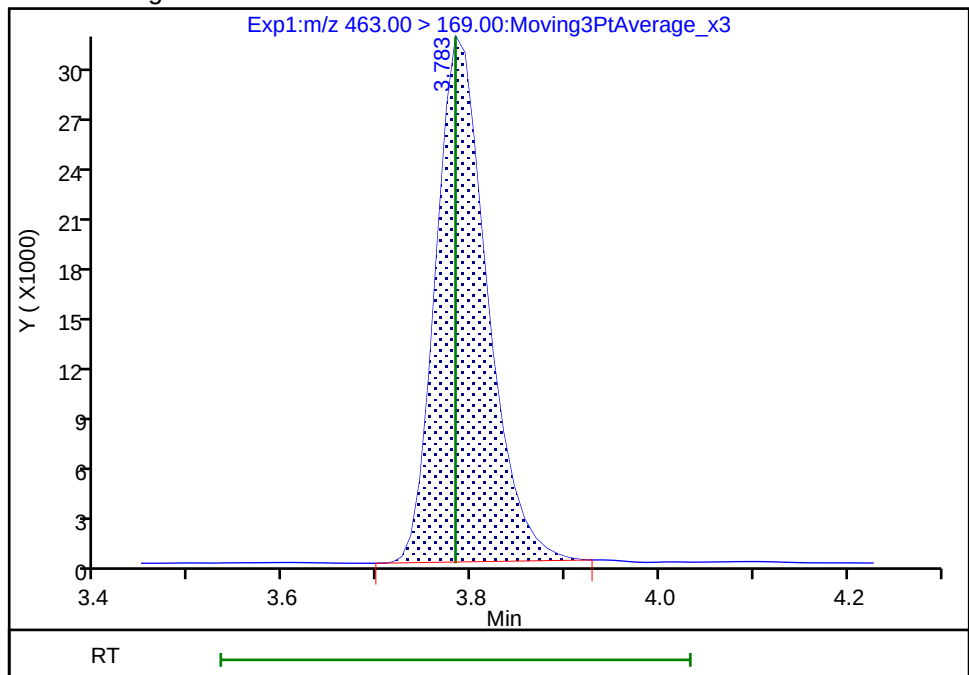
RT: 3.78
Area: 120127
Amount: 0.507644
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 118713
Amount: 0.531934
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

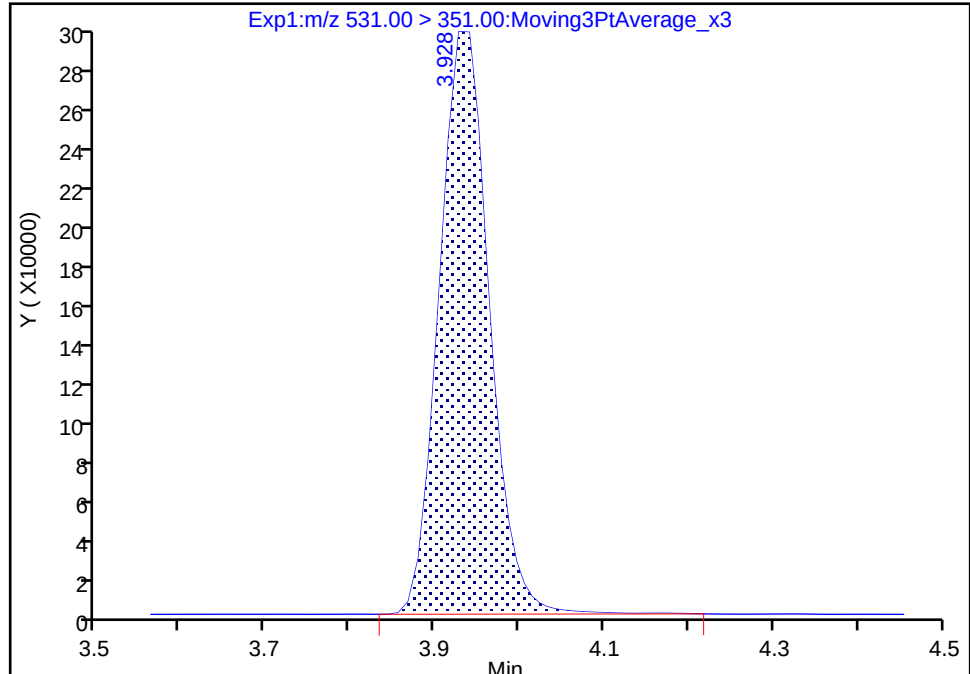
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

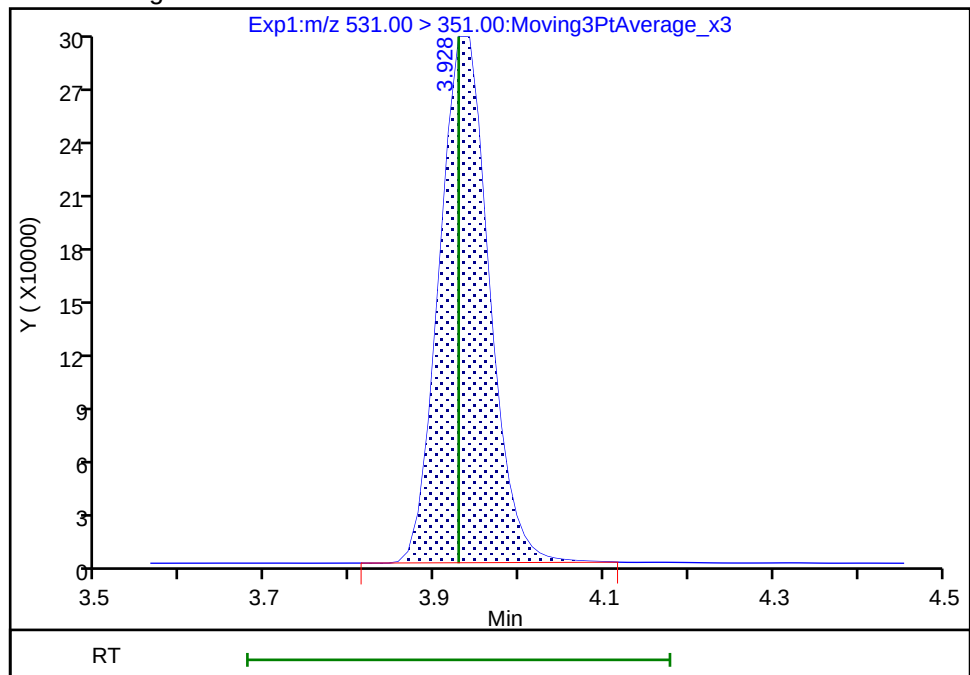
RT: 3.93
Area: 1196218
Amount: 0.468080
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 1190983
Amount: 0.492631
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

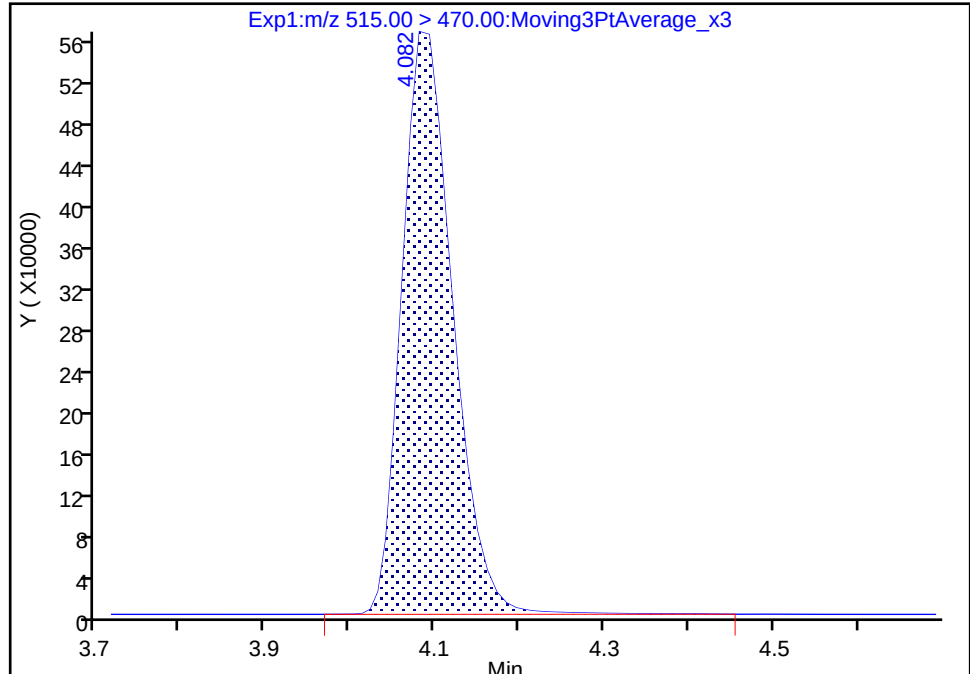
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

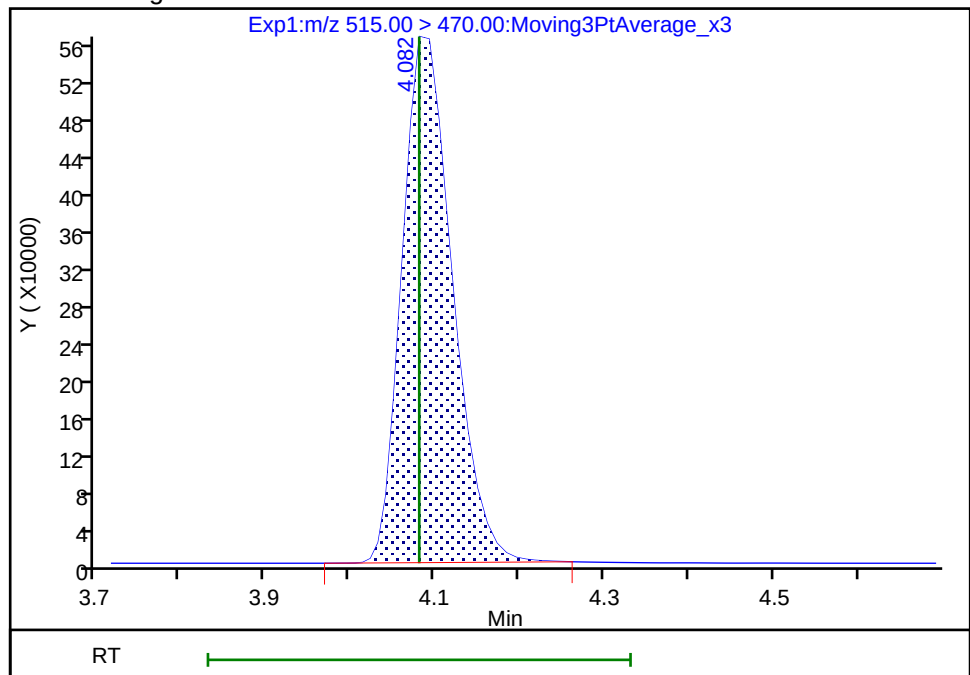
RT: 4.08
Area: 2353187
Amount: 1.223652
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2334094
Amount: 1.189856
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

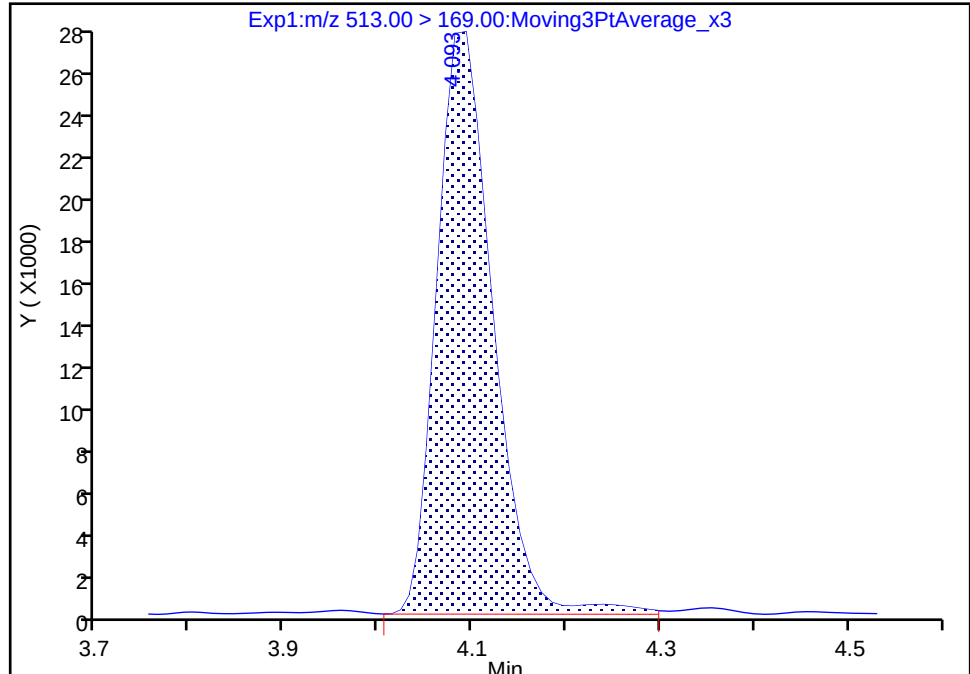
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

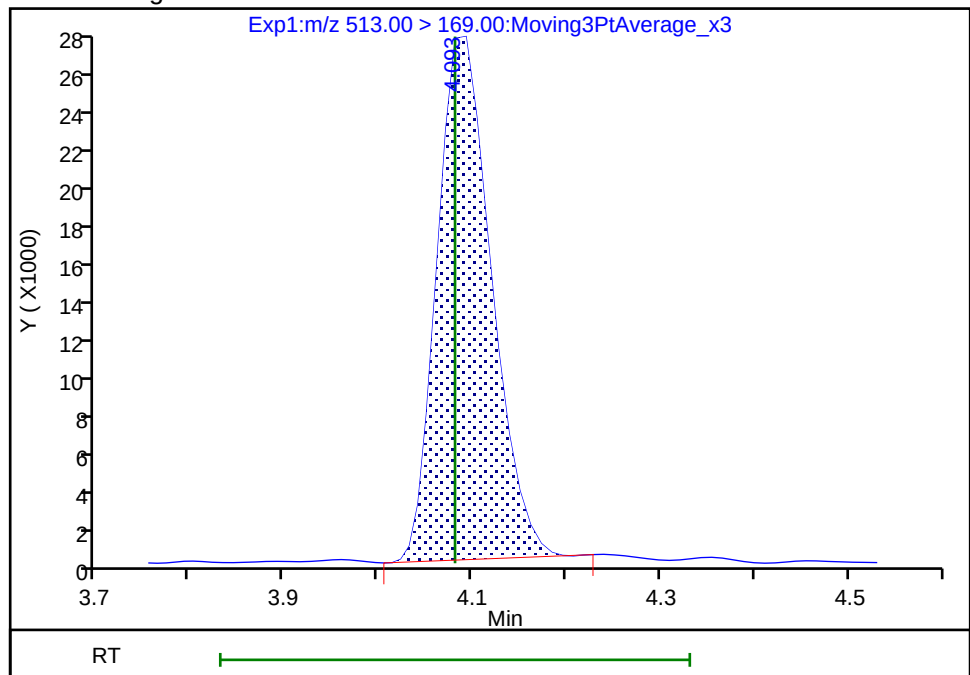
RT: 4.09
Area: 112536
Amount: 0.535825
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 108172
Amount: 0.585009
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

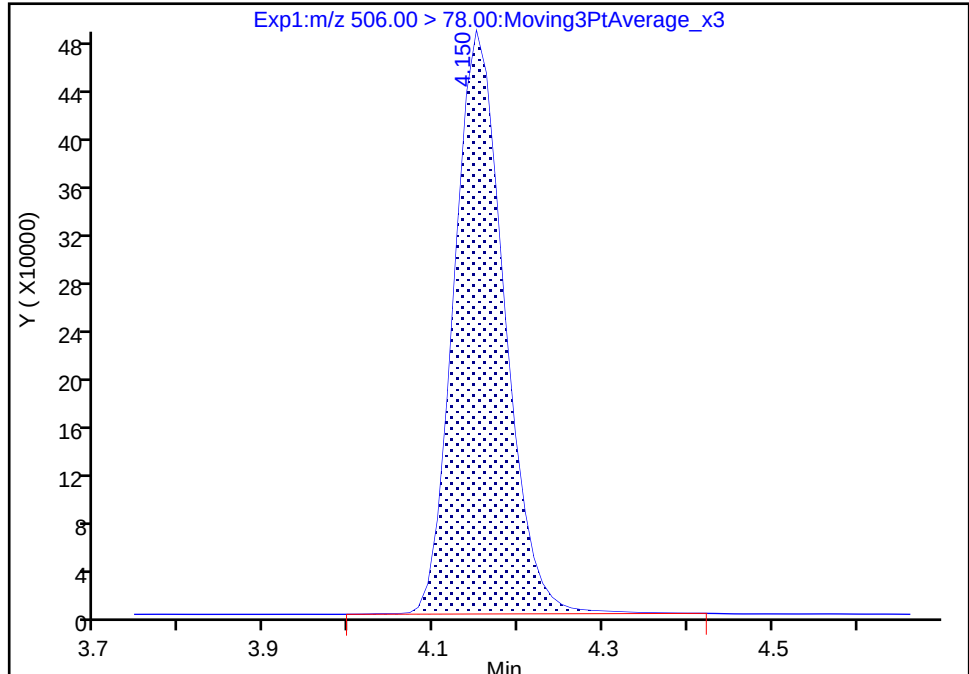
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

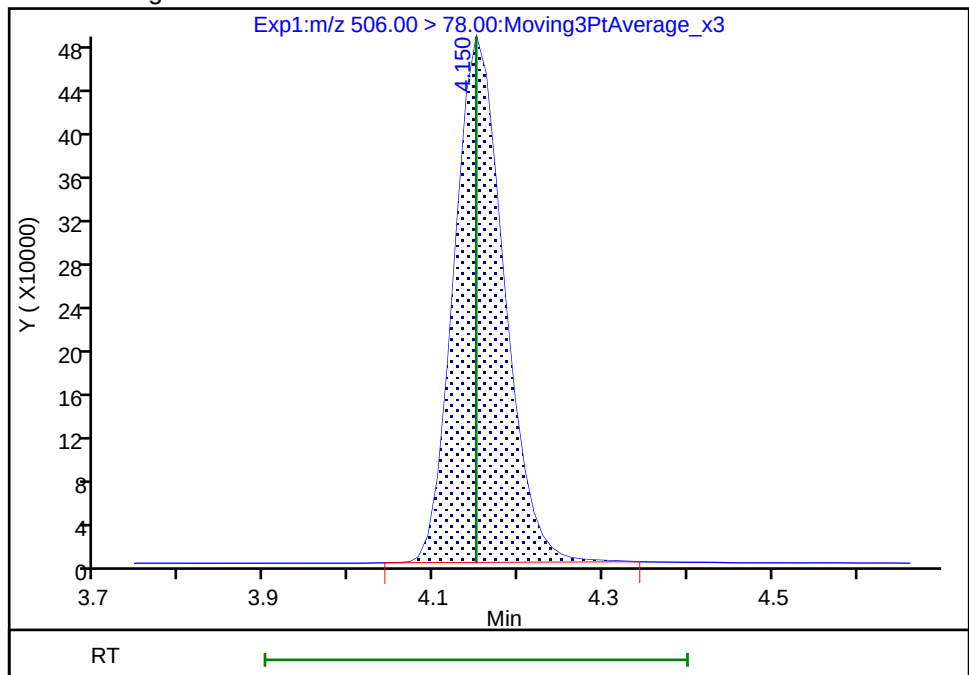
RT: 4.15
Area: 1977863
Amount: 1.249599
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1967036
Amount: 1.223096
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

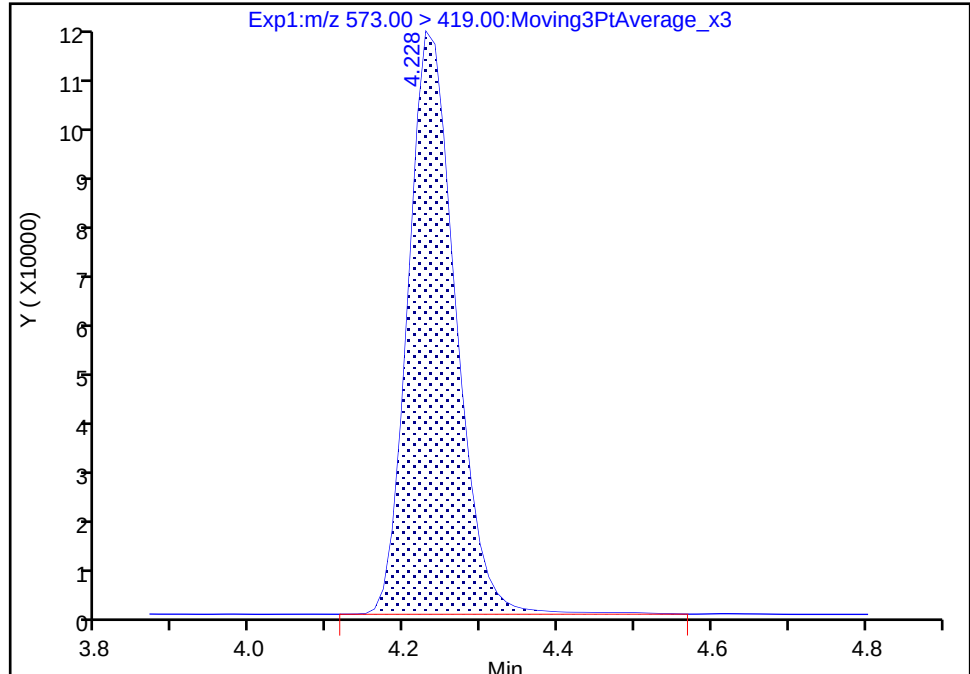
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

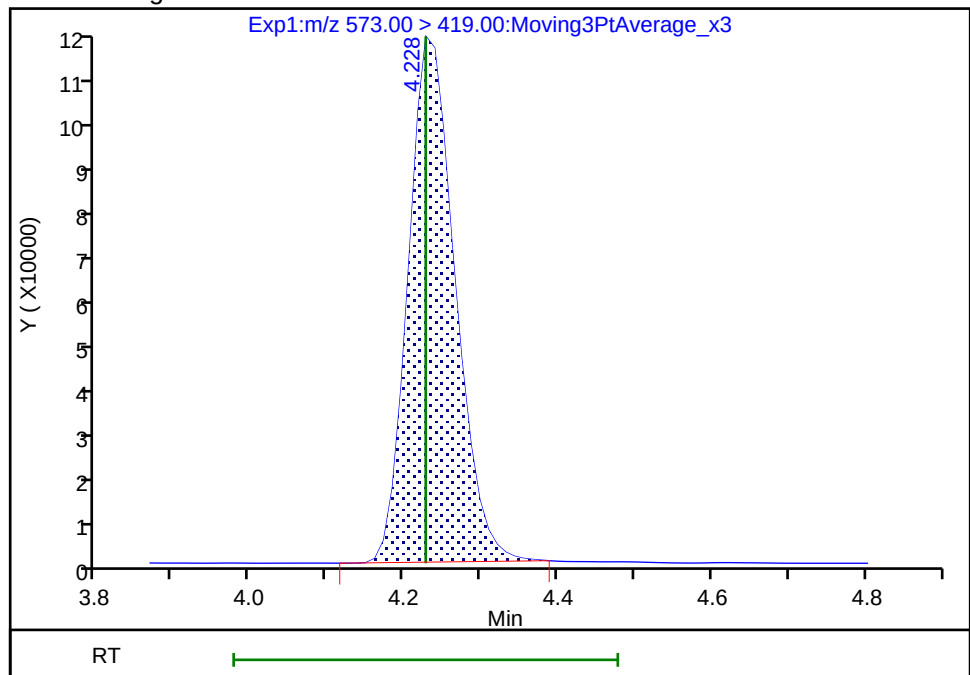
RT: 4.23
Area: 472648
Amount: 1.220892
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 466044
Amount: 1.166822
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

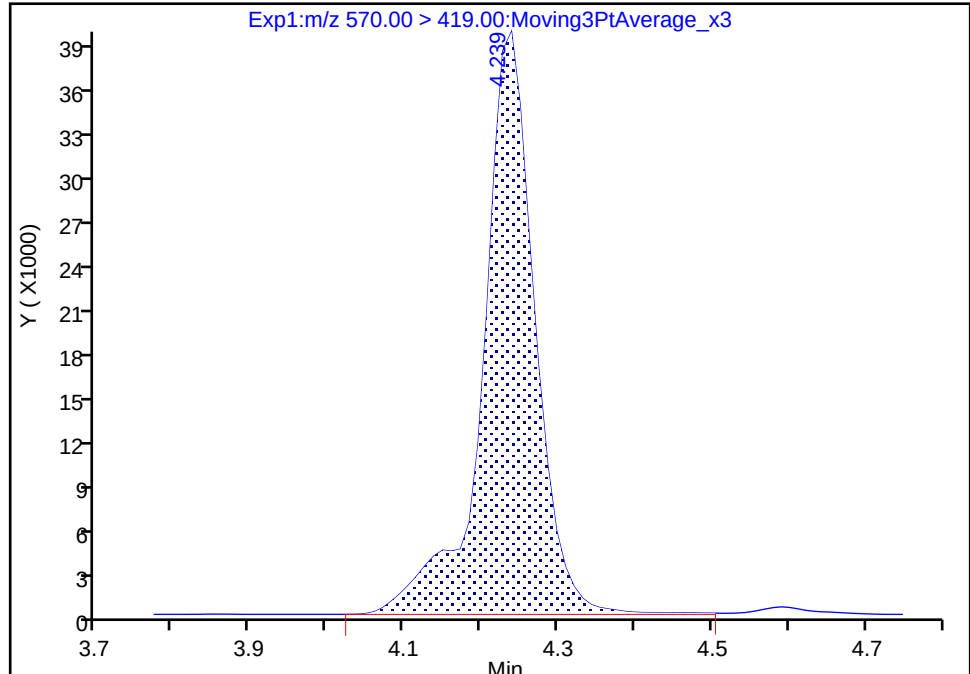
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

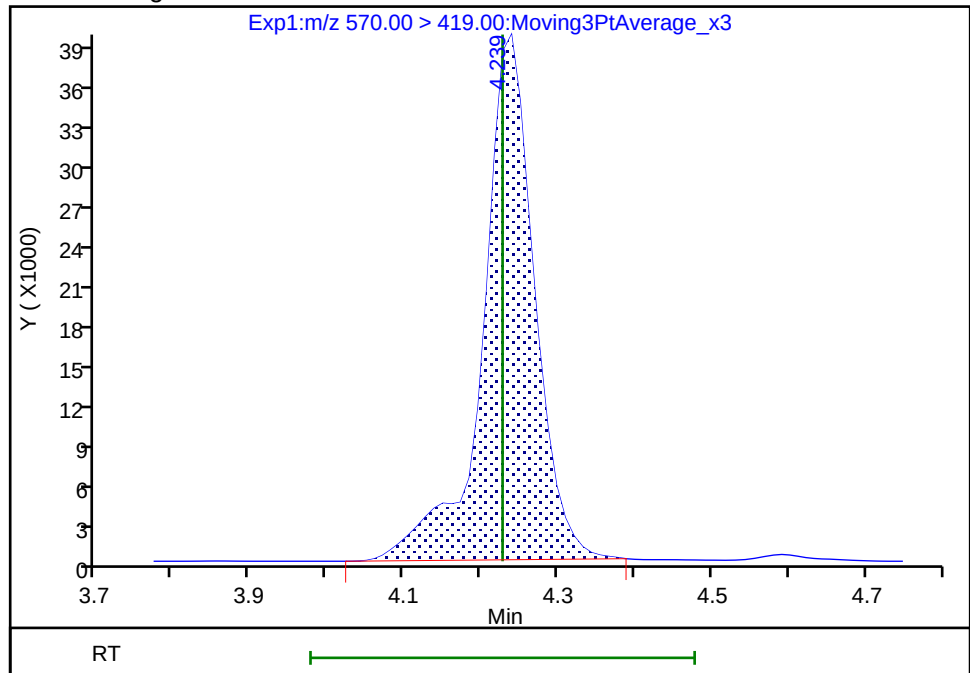
RT: 4.24
Area: 186349
Amount: 0.510442
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 183478
Amount: 0.560438
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

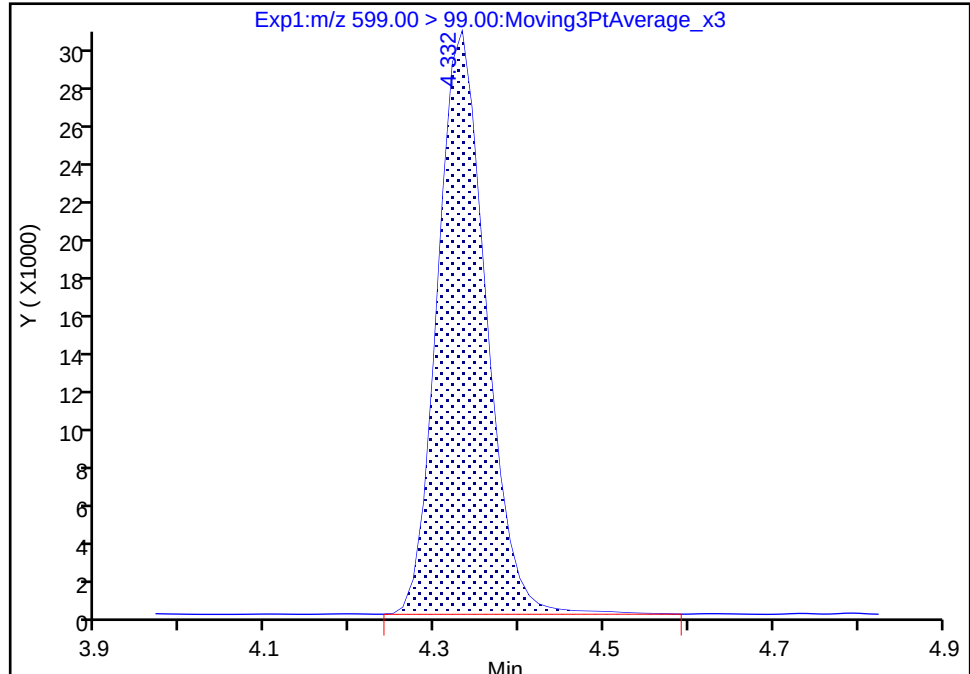
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

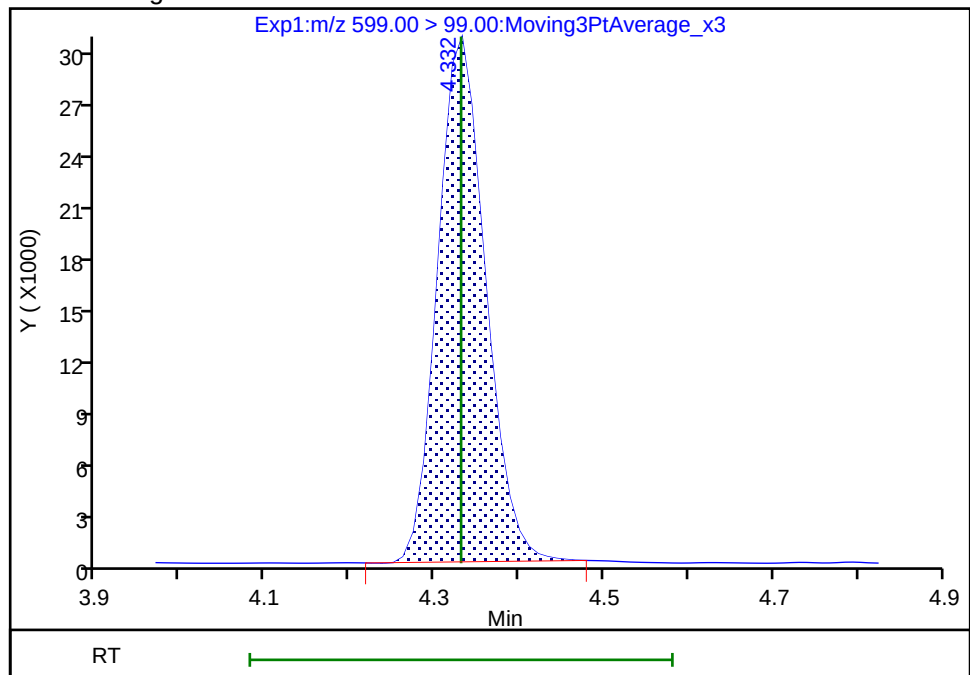
RT: 4.33
Area: 122520
Amount: 0.495943
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 120718
Amount: 0.518321
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

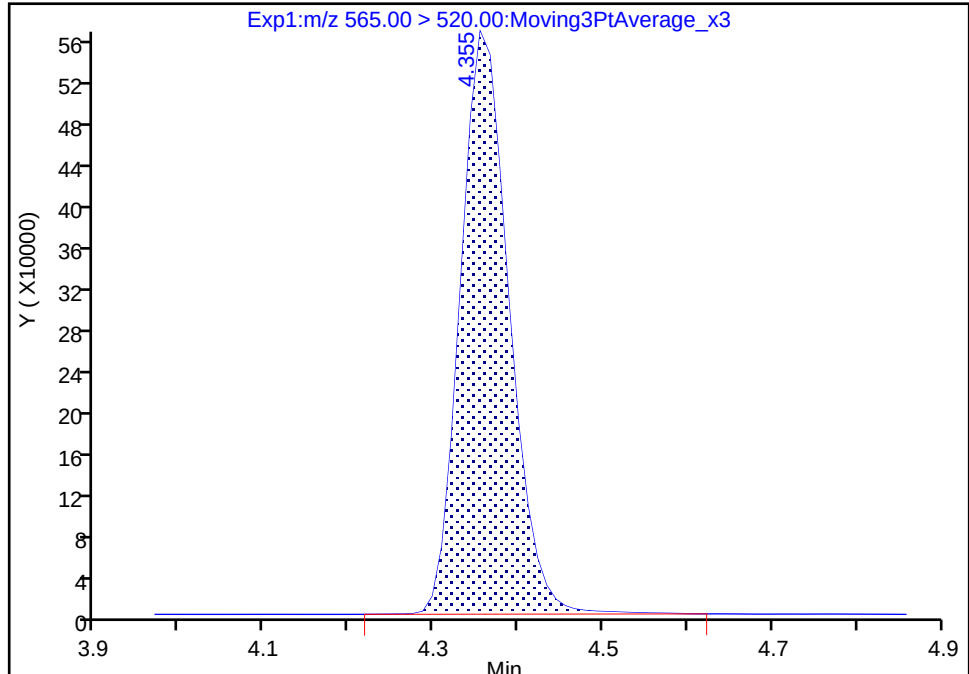
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

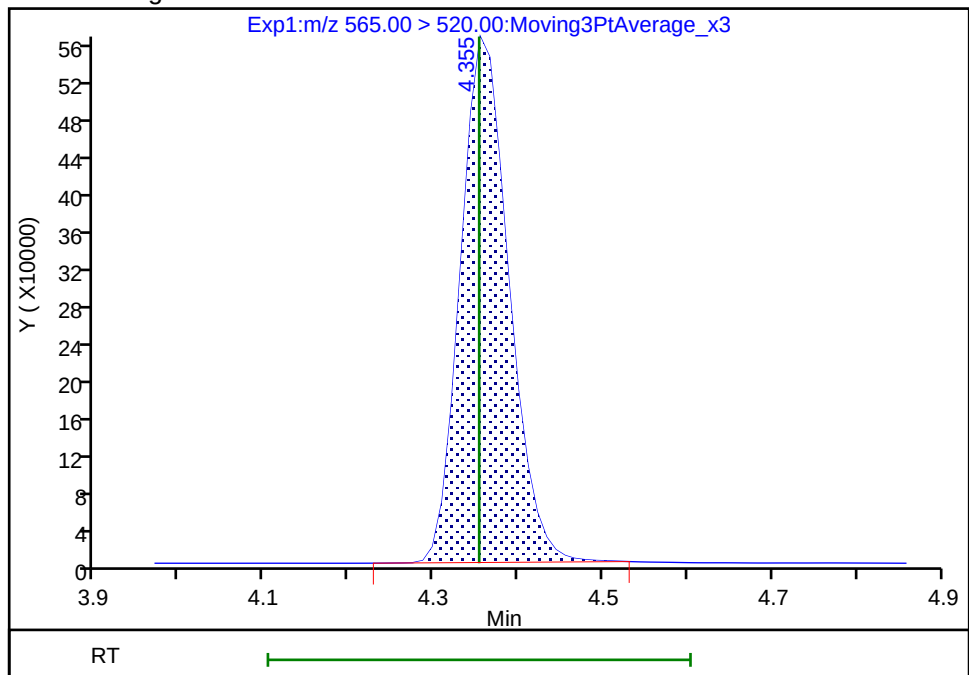
RT: 4.35
Area: 2246233
Amount: 1.255521
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2230172
Amount: 1.241544
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

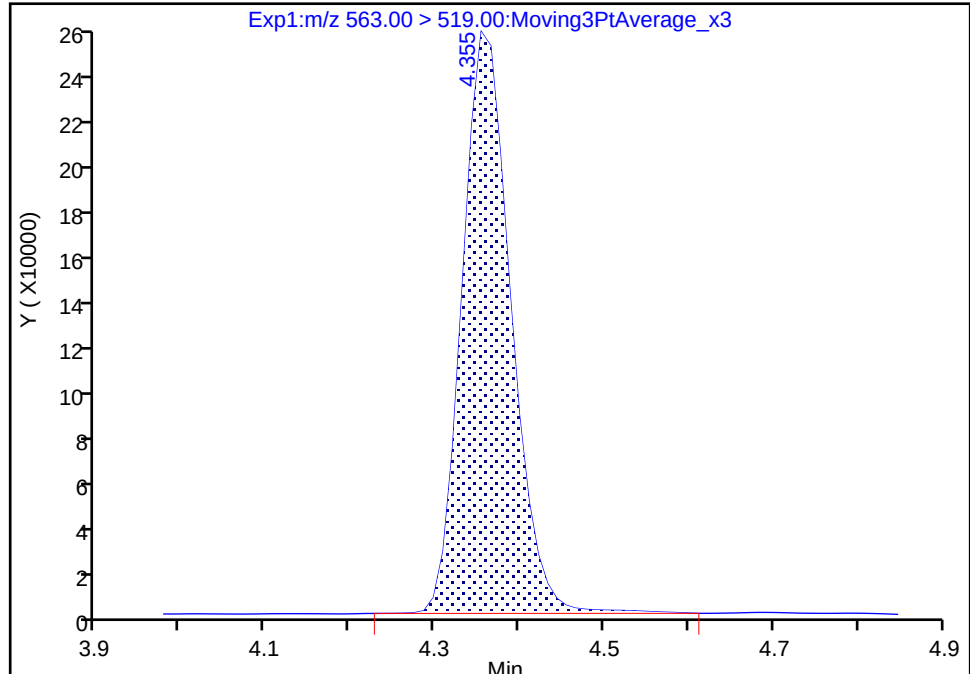
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

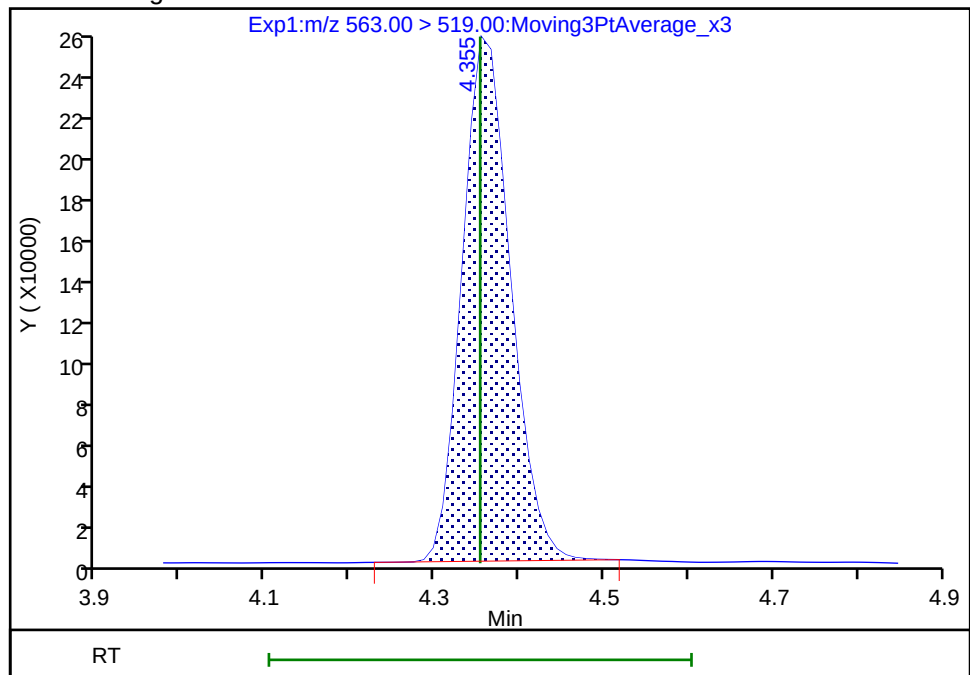
RT: 4.35
Area: 1019546
Amount: 0.528294
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1004863
Amount: 0.558860
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

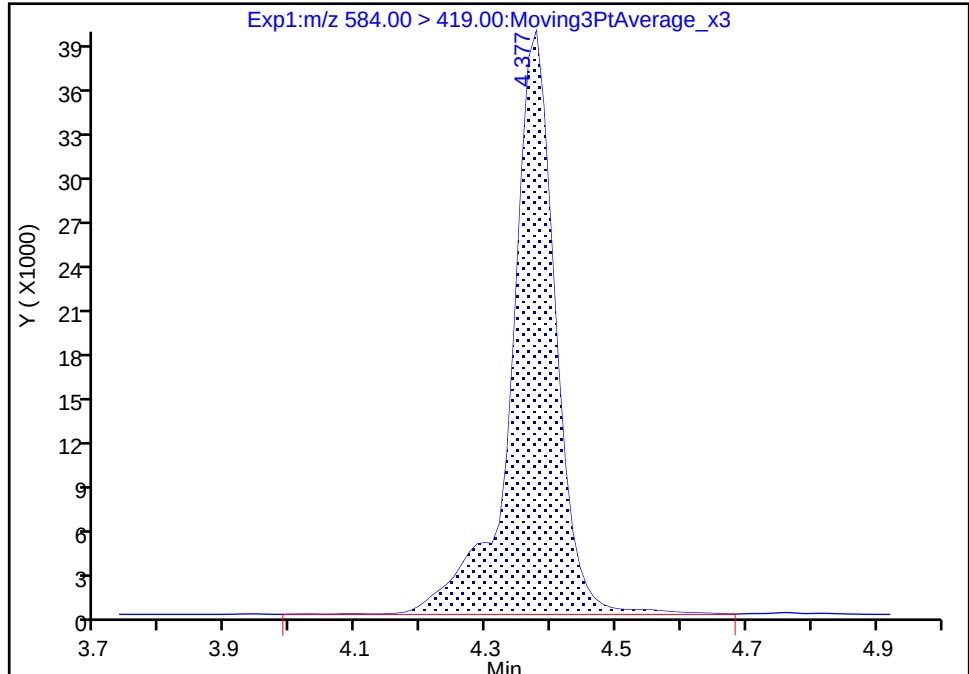
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

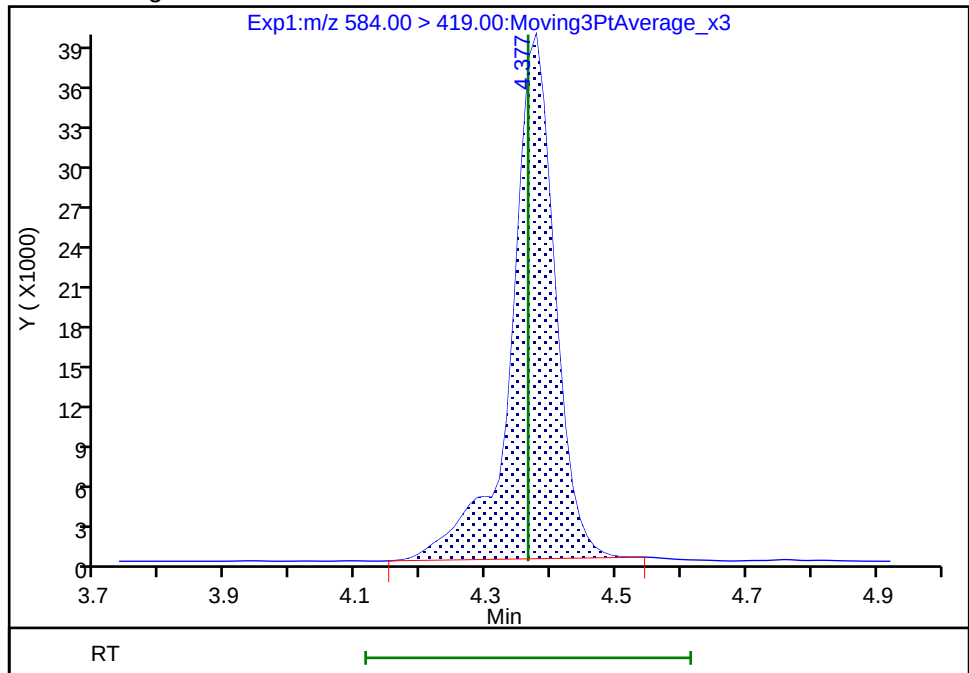
RT: 4.38
Area: 187455
Amount: 0.493834
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 182262
Amount: 0.510836
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

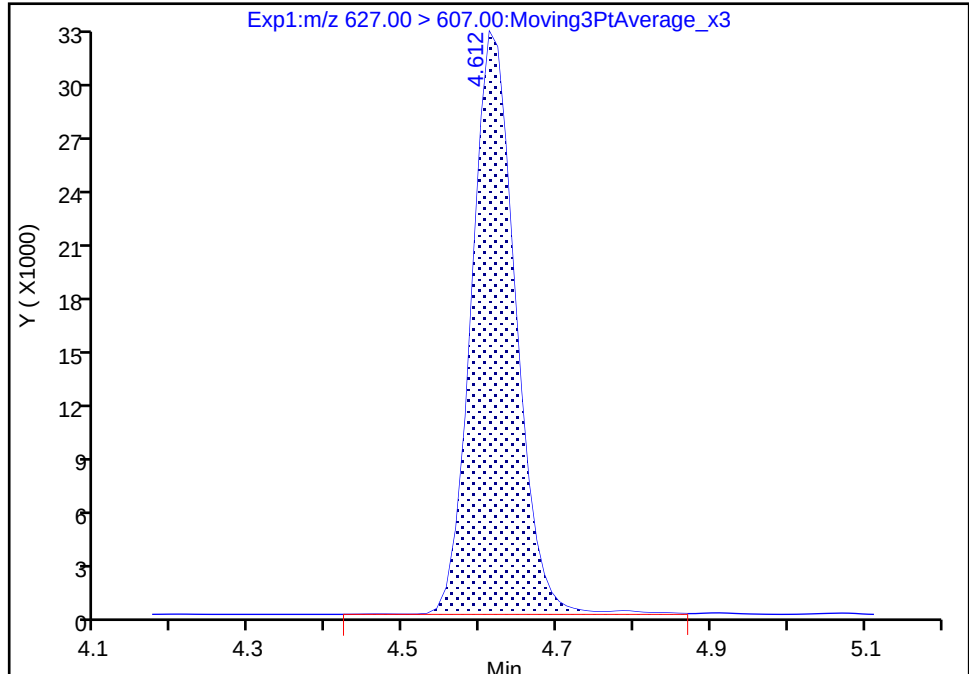
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

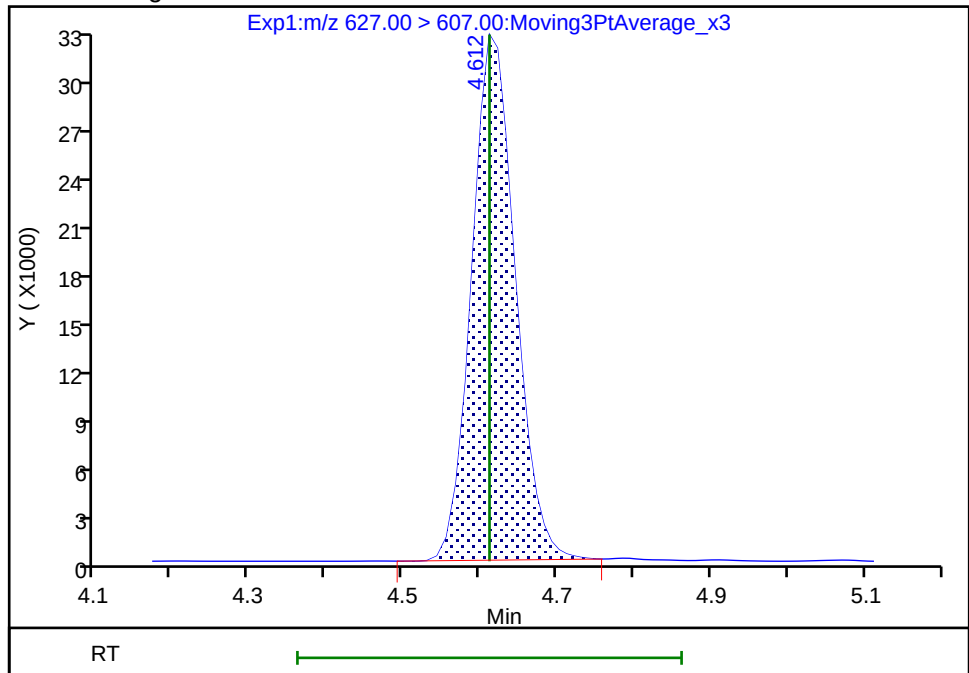
RT: 4.61
Area: 127475
Amount: 0.468658
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 125547
Amount: 0.481934
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

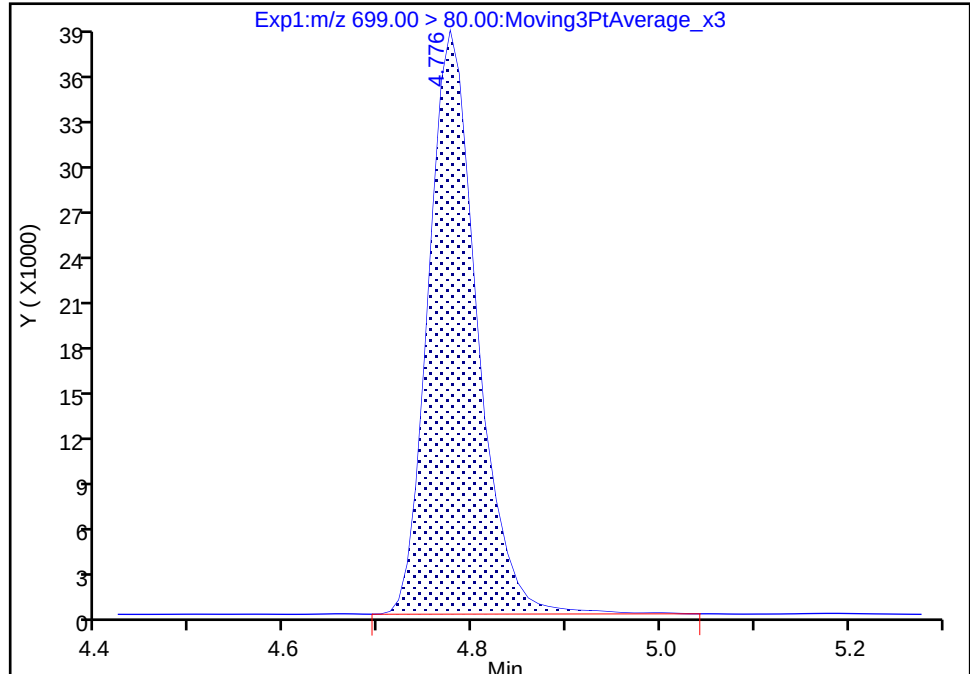
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

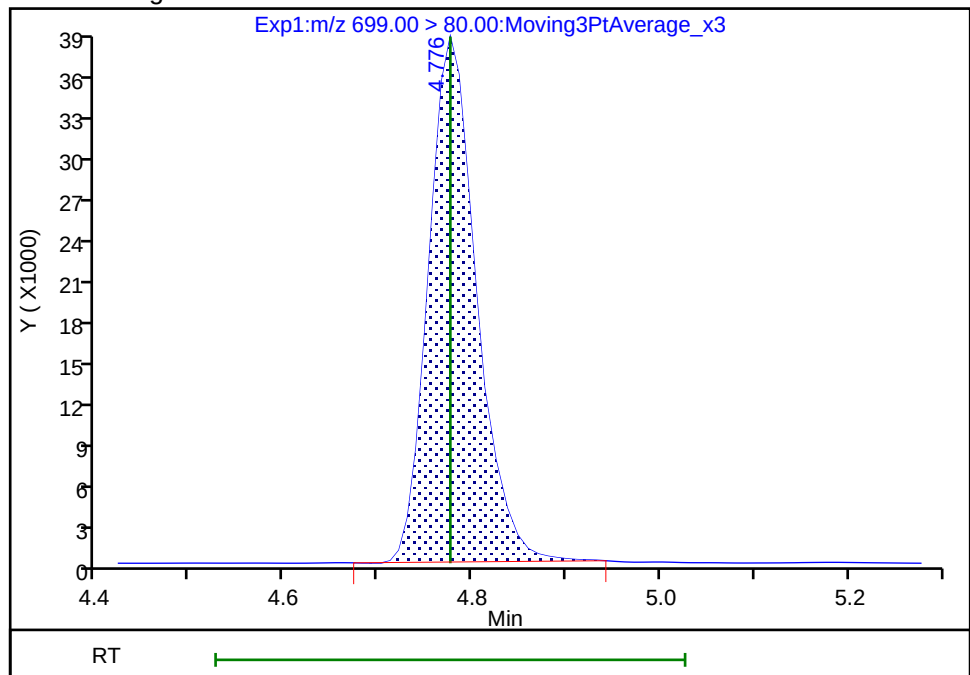
RT: 4.78
Area: 137382
Amount: 0.488107
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 135657
Amount: 0.510739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

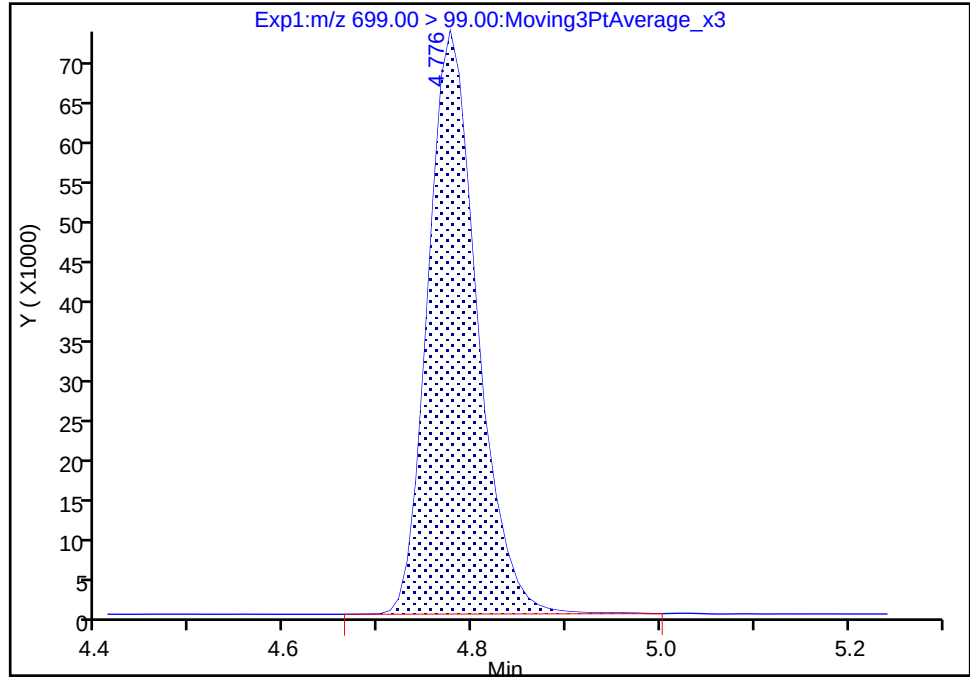
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

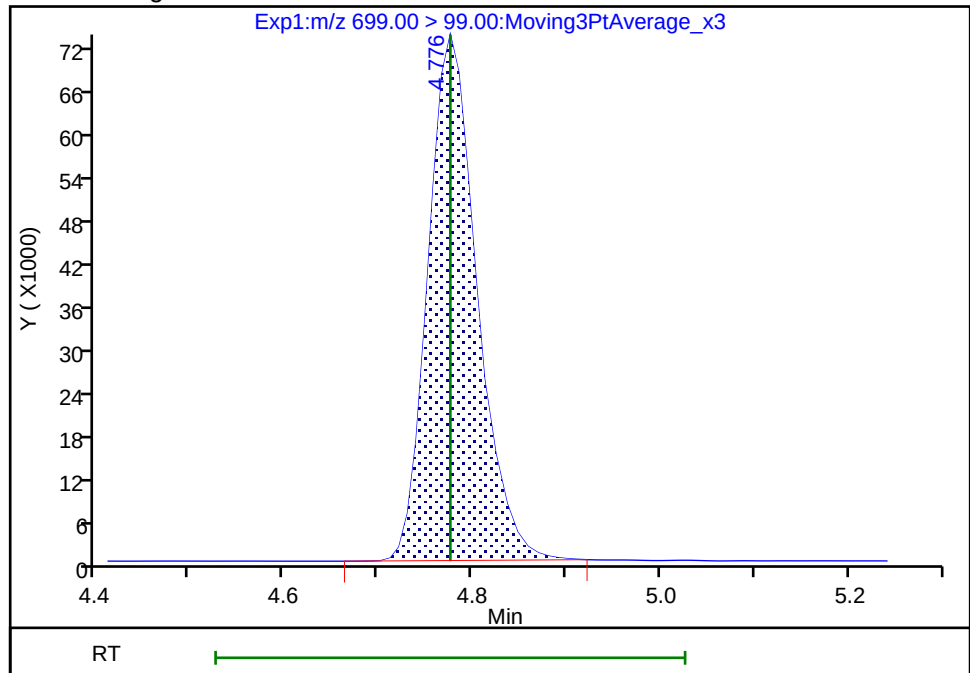
RT: 4.78
Area: 265617
Amount: 0.488107
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 264160
Amount: 0.510739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

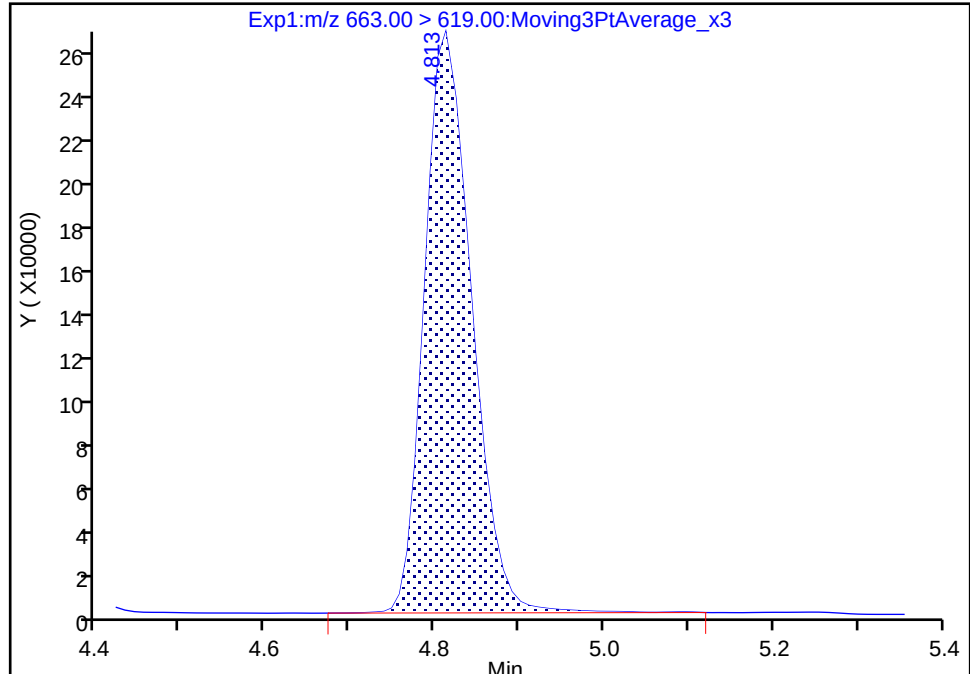
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

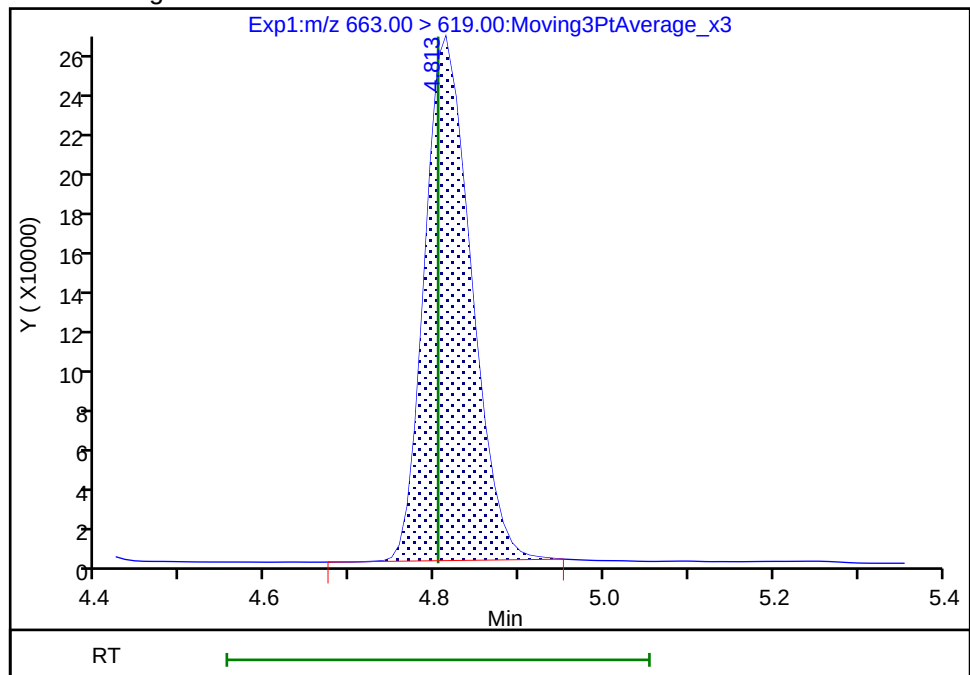
RT: 4.81
Area: 1002946
Amount: 0.507432
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 987678
Amount: 0.542529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

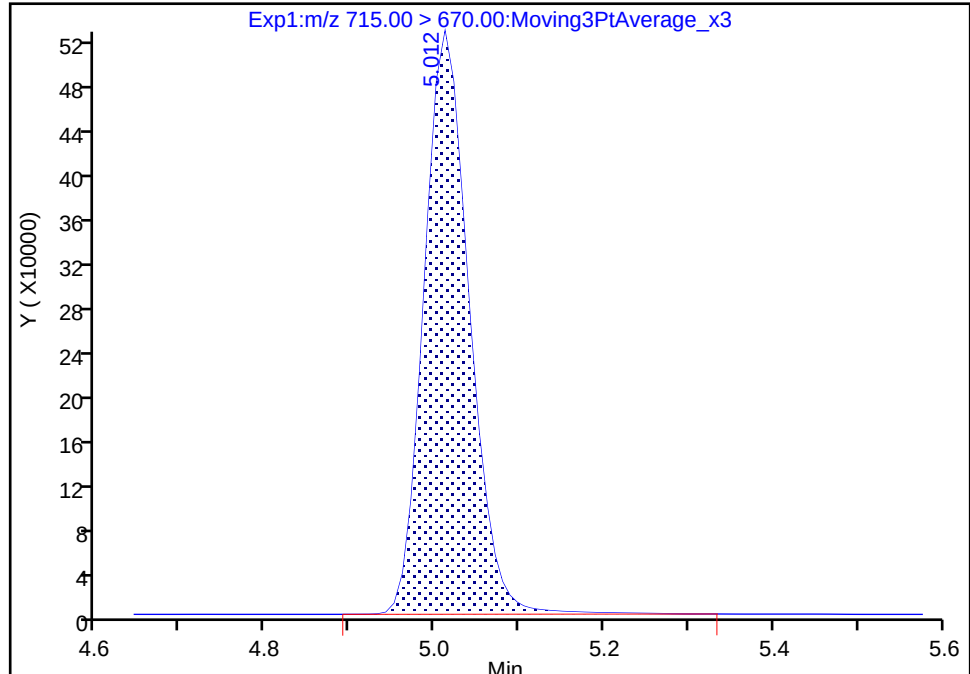
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

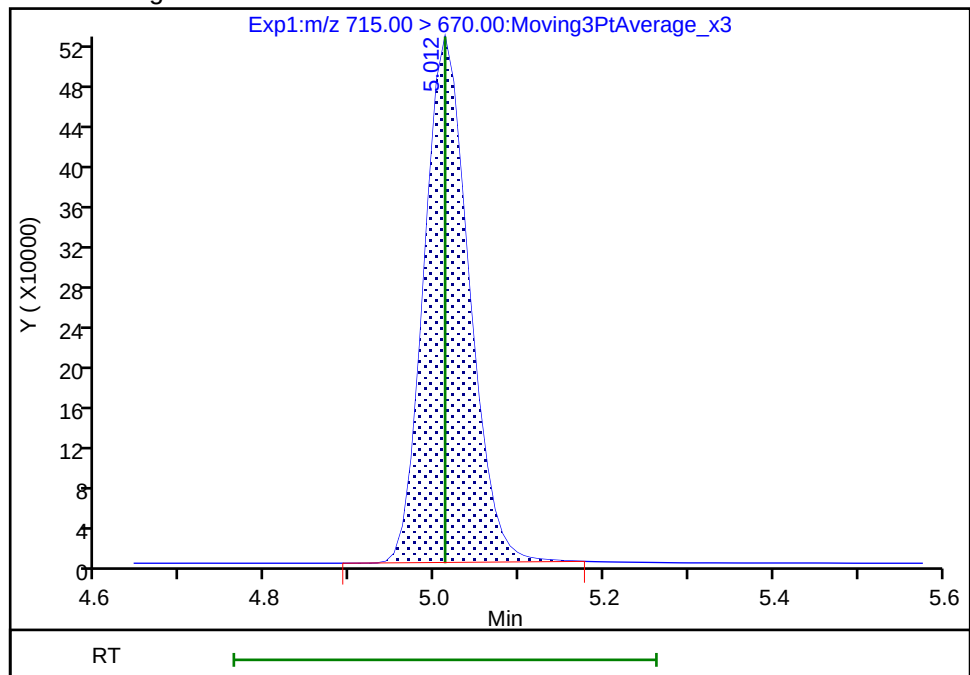
RT: 5.01
Area: 1966556
Amount: 1.245759
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1947280
Amount: 1.230207
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

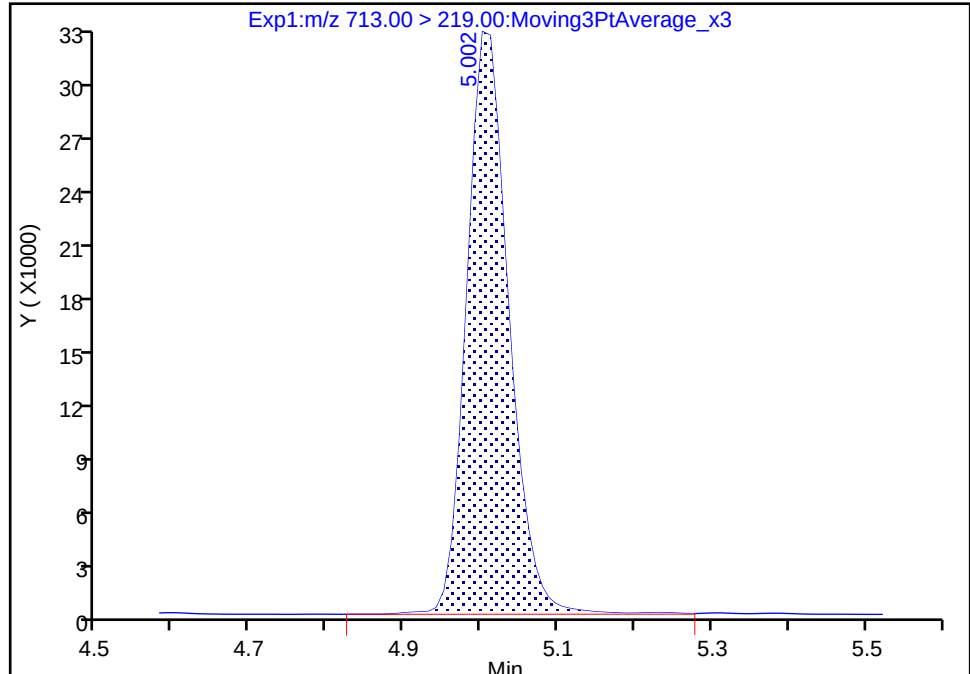
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

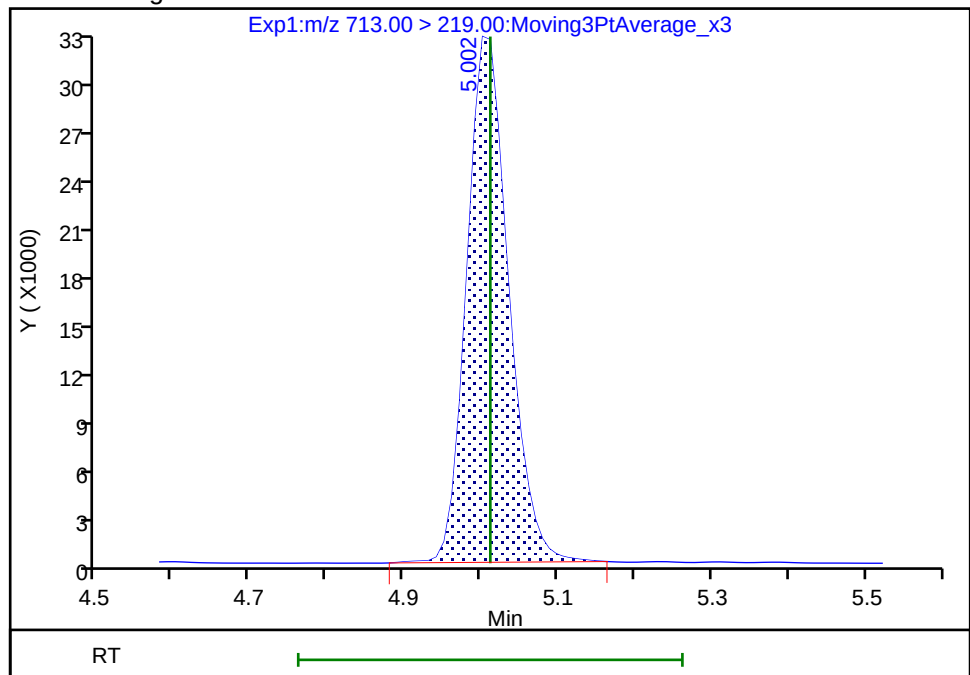
RT: 5.00
Area: 121696
Amount: 0.499944
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 120383
Amount: 0.532692
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

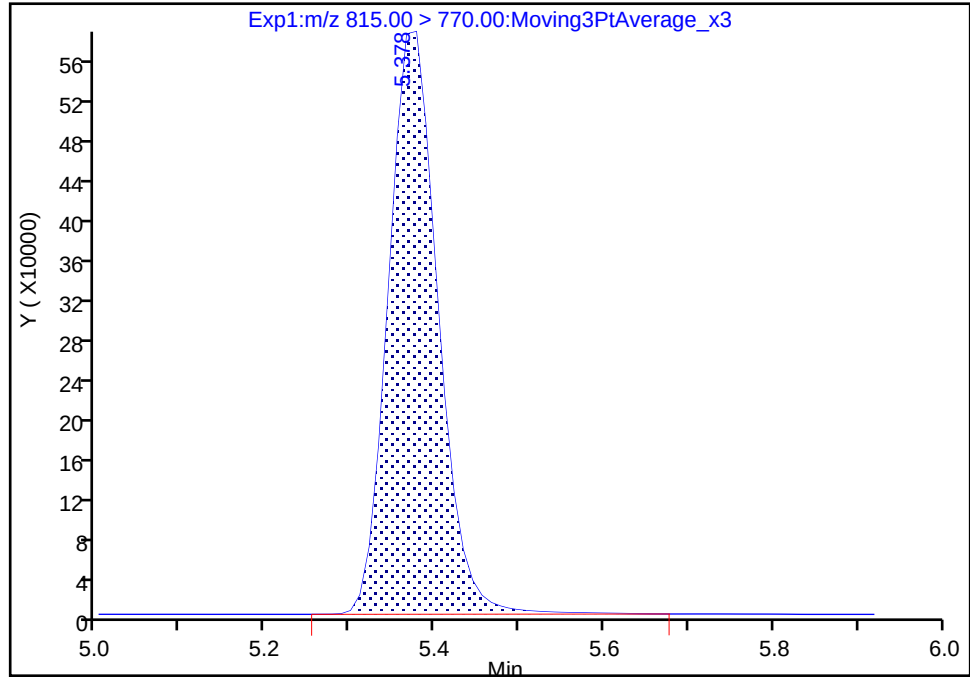
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

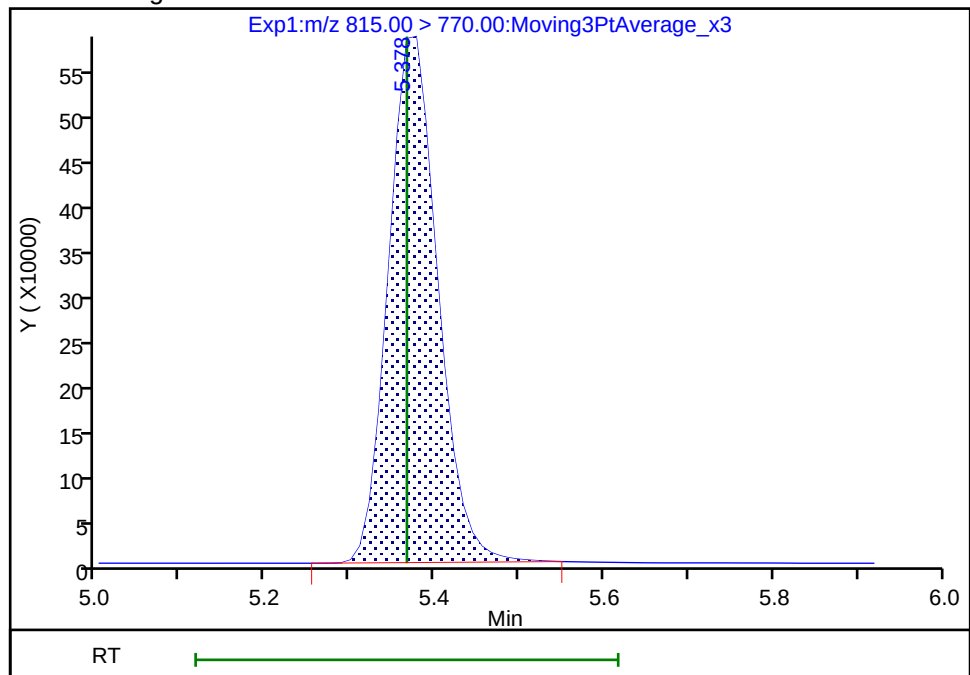
RT: 5.38
Area: 2367322
Amount: 1.213410
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 2348434
Amount: 1.200087
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

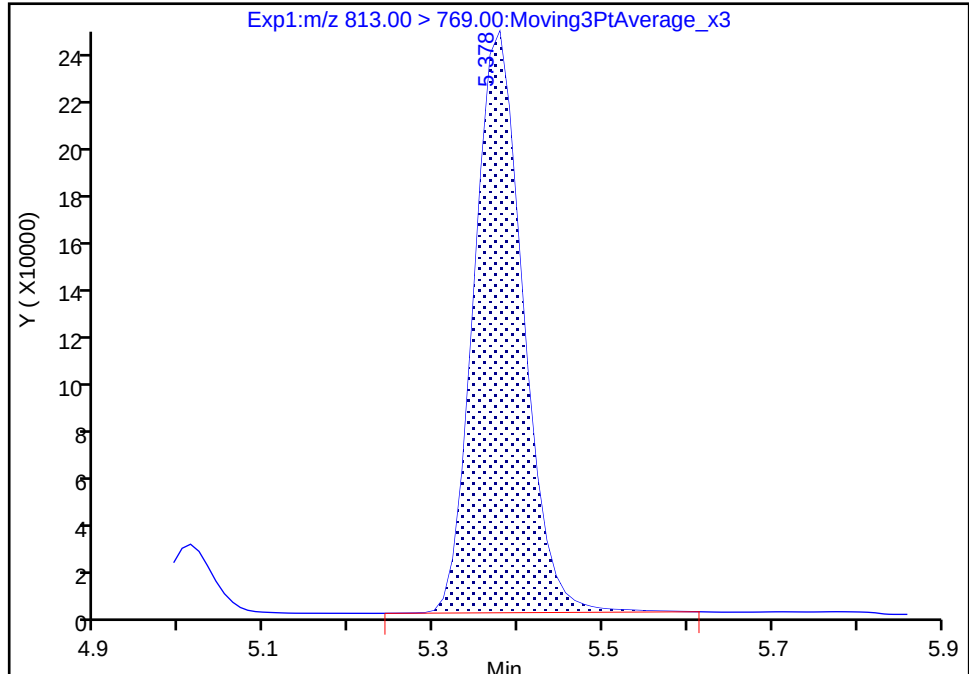
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

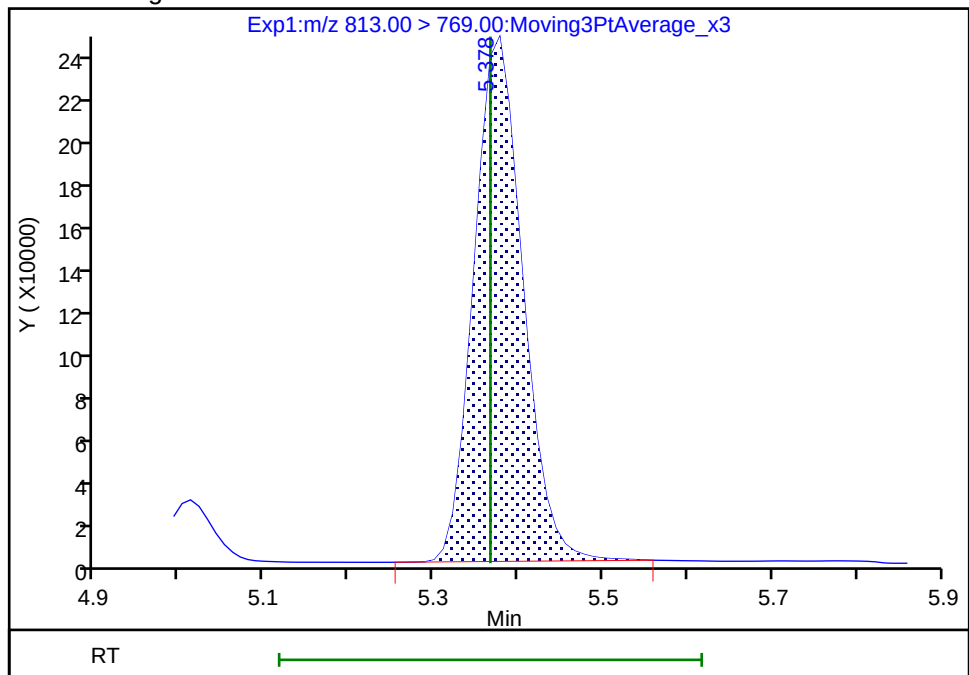
RT: 5.38
Area: 983409
Amount: 0.501394
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 978907
Amount: 0.549576
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

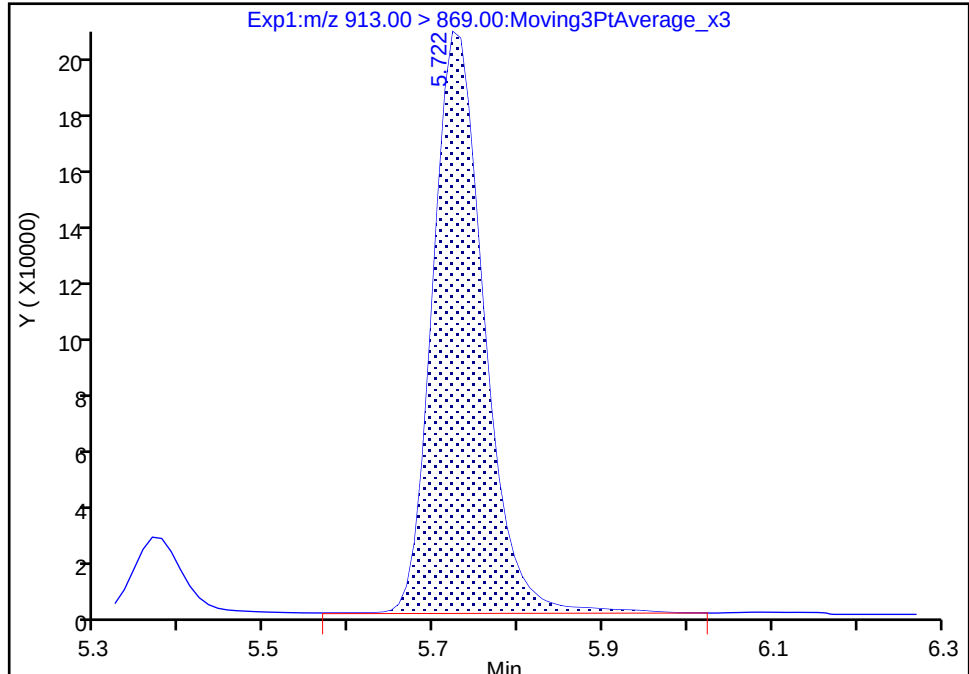
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

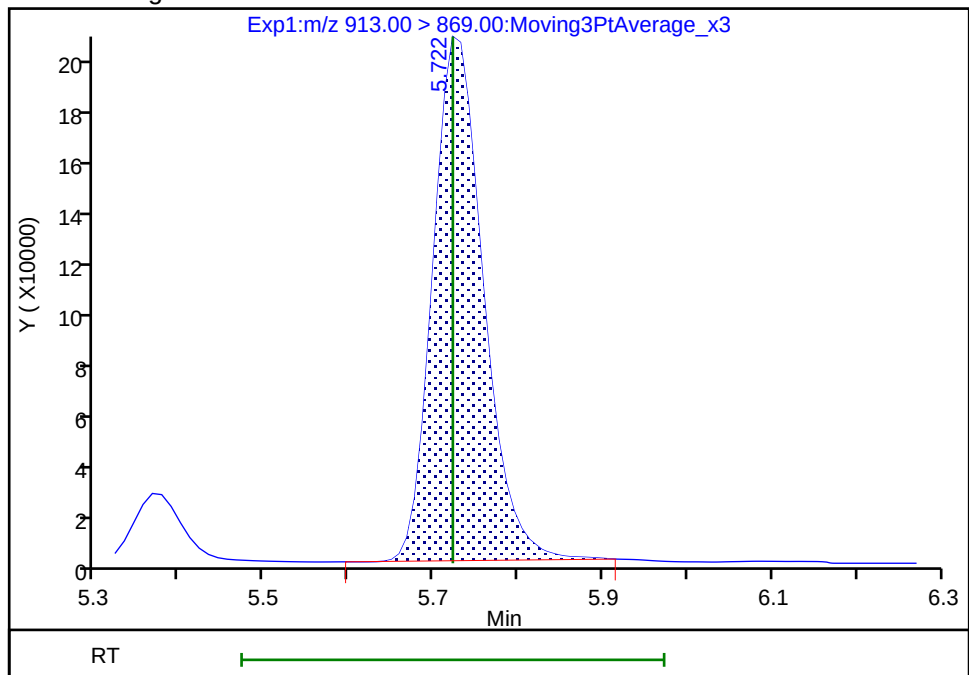
RT: 5.72
Area: 870066
Amount: 0.534447
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 852104
Amount: 0.550699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

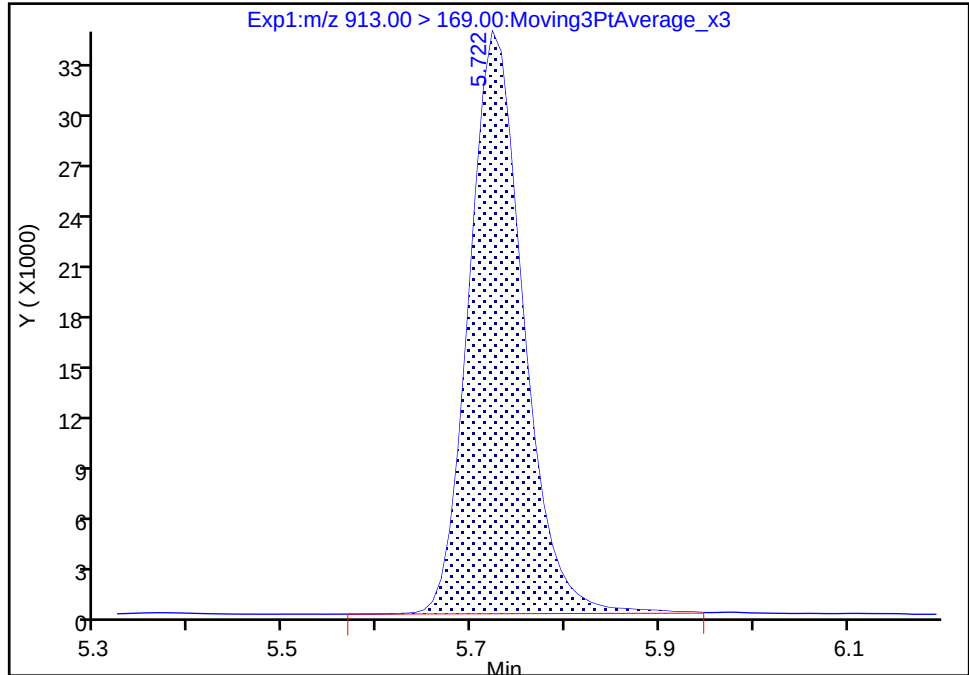
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

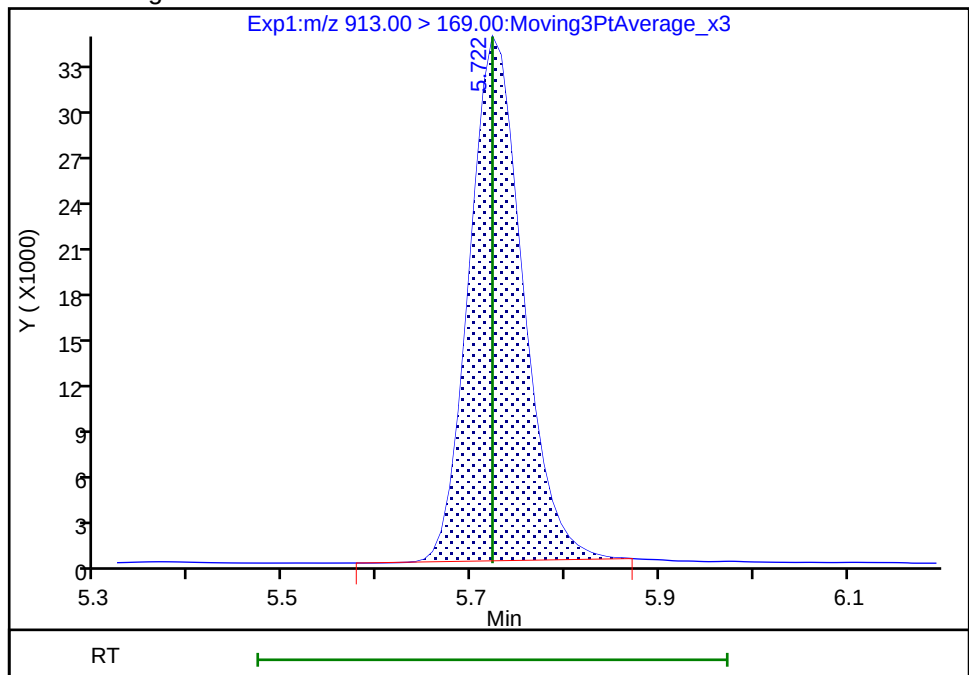
RT: 5.72
Area: 136693
Amount: 0.534447
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 133969
Amount: 0.550699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
 Lims ID: ICISAV
 Client ID:
 Sample Type: ICISAV Calib Level: 4
 Inject. Date: 18-Nov-2022 14:54:26 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0053396-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:43 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:10:02

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	2.076	2.076	0.0	0.602	2534911	1.21		97.1	8459	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	1911392	0.9140		91.4	178	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	1977830	1.24		99.5	4234	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1602160	0.9291		92.9	42.0	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1977208	1.14		98.4	321673	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	1545417	0.7942	Target=2.14	89.8	2033	
298.90 > 99.00	2.400	2.400	0.0	1.000	739473		2.09(1.07-3.21)	89.8	579	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	391113	0.8767		93.9	2379	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	169056	1.11		94.8	181	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2055340	1.23		98.7	4582	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1703495	0.9508	Target=13.44	95.1	335	M
313.00 > 119.00	2.725	2.725	0.0	1.000	119585		14.25(6.72-20.15)	95.1	175	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	1404230	0.8581	Target=2.98	91.5	2468	
349.00 > 99.00	2.737	2.737	0.0	0.887	461710		3.04(1.49-4.47)	91.5	1082	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	372889	1.27		101	2292	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	286947	0.9110		91.1	991	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1449028	1.15		97.4	3635	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	1180858	0.8538	Target=3.57	93.8	1219	M
399.00 > 99.00	3.088	3.088	0.0	1.000	322894		3.66(1.78-5.35)	93.8	449	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2123066	1.24		99.1	4752	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	1718424	0.9293	Target=3.93	92.9	372	M
363.00 > 169.00	3.099	3.099	0.0	1.000	433271		3.97(1.96-5.89)	92.9	919	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	4197219	0.9414	Target=3.08	99.9	3253	
377.00 > 85.00	3.132	3.132	0.0	0.832	1329955		3.16(1.54-4.62)	99.9	1576	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	249636	1.18		99.6	824	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	404018	0.8979		94.7	1316	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	1021904	0.9037	Target=5.16	94.9	1725	M
449.00 > 99.00	3.439	3.439	0.0	0.914	198660		5.14(2.58-7.74)	94.9	800	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2342274	1.22		97.3	4621	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2326928	1.25			6928	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	1946044	0.9715	Target=2.82	97.1	147	
413.00 > 169.00	3.448	3.448	0.0	1.000	696928		2.79(1.41-4.23)	97.1	1444	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	967441	1.13		94.8	2148	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	856526	0.8700	Target=5.01	93.7	226	M
499.00 > 99.00	3.764	3.764	0.0	1.000	167691		5.11(2.50-7.51)	93.7	213	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2356501	1.26		101	3960	
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	1851038	0.9465	Target=8.49	94.7	363	
463.00 > 169.00	3.783	3.783	0.0	1.000	216403		8.55(4.25-12.74)	94.7	1426	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	2037918	0.9019		96.8	7599	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	673297	0.9060	Target=2.60	94.4	3265	
549.00 > 99.00	4.061	4.050	0.011	1.079	265784		2.53(1.30-3.90)	94.4	989	
D 23 13C2 PFDA										M
515.00 > 470.00	4.081	4.081	0.0	1.184	2384612	1.25		100.0	2422	M

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	4.081	4.081	0.0	1.000	1957474	0.9462	Target=10.03	94.6	861	
513.00 > 169.00	4.081	4.081	0.0	1.000	190868		10.26(5.02-15.05)	94.6	378	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	300249	1.16		97.1	1026	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	370895	0.9148		95.5	1282	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1483356	0.9442		94.4	2971	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1879604	1.20		96.1	1789	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	470154	1.21		96.8	798	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.228	0.0	1.000	324897	0.99		99.3	621	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	528363	0.9005	Target=2.58	93.4	2444	
599.00 > 99.00	4.331	4.331	0.0	1.151	210859		2.51(1.29-3.86)	93.4	1382	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	1710346	0.9714	Target=10.10	97.1	822	
563.00 > 169.00	4.353	4.353	0.0	1.000	173100		9.88(5.05-15.15)	97.1	1375	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2183949	1.25		100	2475	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	0.0	1.000	311108	0.9436		94.4	1137	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	460360	1.20		96.3	910	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	3224328	0.9257		98.3	2744	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	1785384	0.9748	Target=7.41	97.5	120	
613.00 > 169.00	4.591	4.591	0.0	1.000	229653		7.77(3.70-11.11)	97.5	1063	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2161023	1.21		97.1	3209	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	226266	0.9287		96.3	3406	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	229113	0.9229	Target=0.51	95.3	1358	M
699.00 > 99.00	4.776	4.776	0.0	1.269	454220		0.50(0.25-0.76)	95.3	1975	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.804	4.804	0.0	1.046	1631703	0.9315	Target=5.40	93.2	116	M
663.00 > 169.00	4.804	4.804	0.0	1.046	313474		5.21(2.70-8.10)	93.2	887	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	188468	0.9330	Target=0.90	93.3	1017	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	212234		0.89(0.45-1.35)	93.3	1287	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	1844360	1.20		95.8	2227	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.367	5.367	0.0	1.557	2280992	1.20		95.9	2085	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.367	5.367	0.0	1.000	1633724	0.9566	Target=5.85	95.7	136	M
813.00 > 169.00	5.367	5.367	0.0	1.000	289352		5.65(2.93-8.78)	95.7	1150	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	1473641	0.9805	Target=6.30	98.1	150	M
913.00 > 169.00	5.722	5.722	0.0	1.066	236187		6.24(3.15-9.46)	98.1	764	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00036

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d

Injection Date: 18-Nov-2022 14:54:26

Instrument ID: LC812

Lims ID: ICISAV

Client ID:

Operator ID: lc812tech

ALS Bottle#:

5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

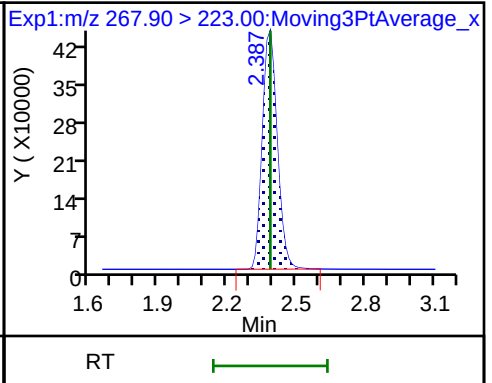
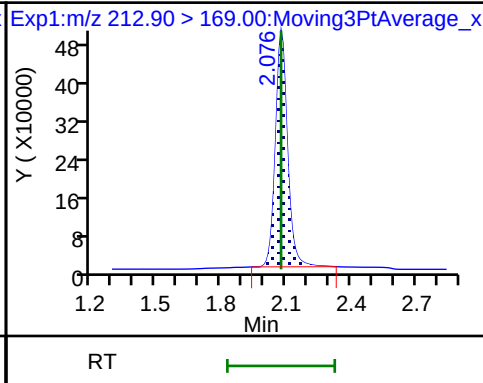
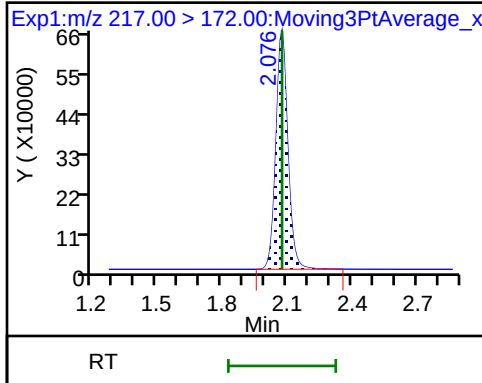
Limit Group:

LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

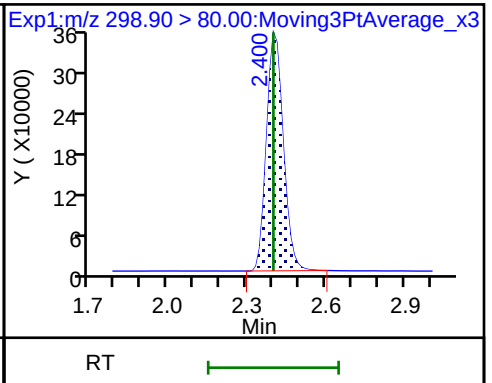
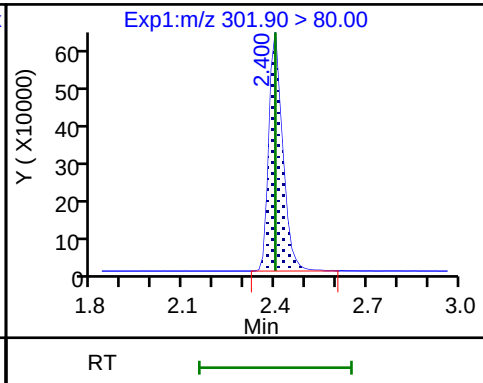
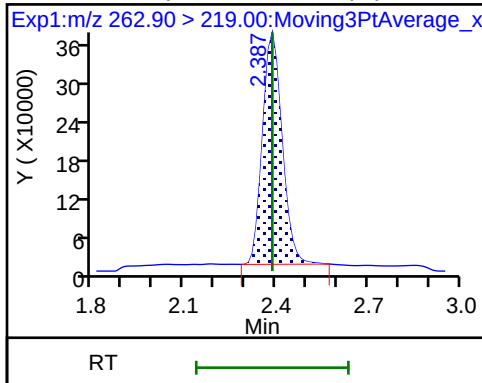
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

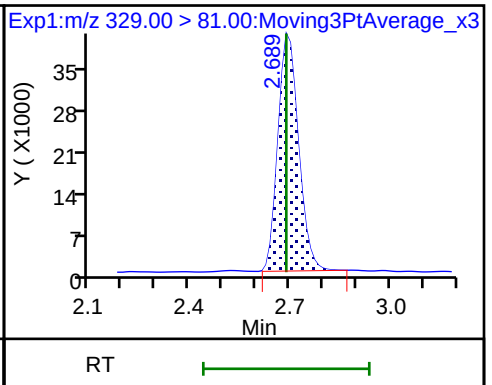
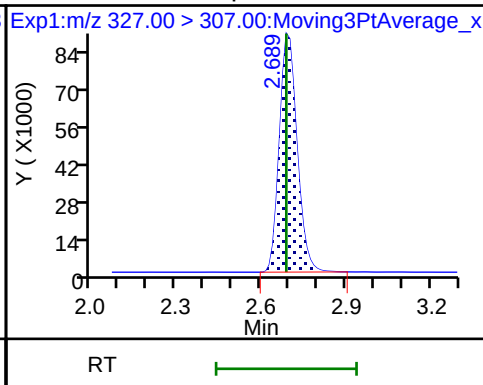
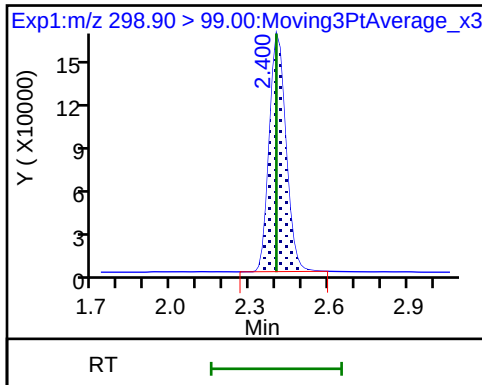
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

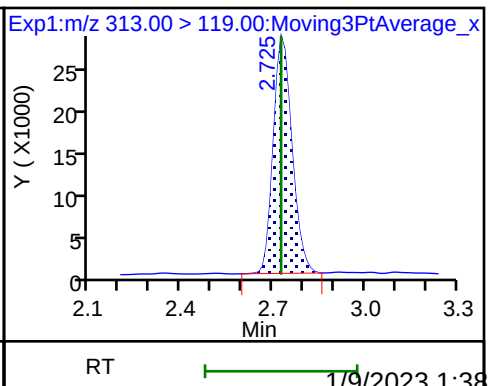
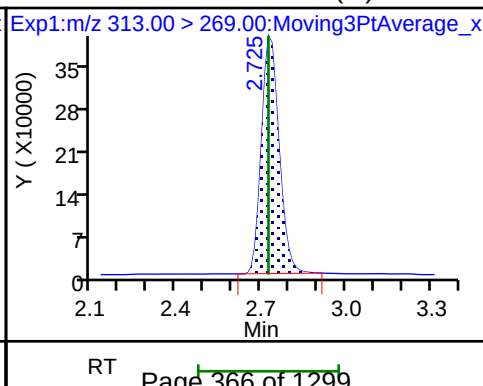
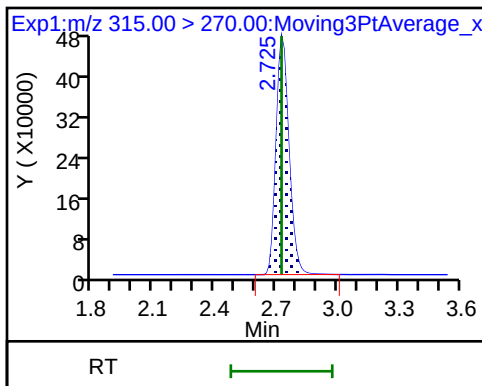
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

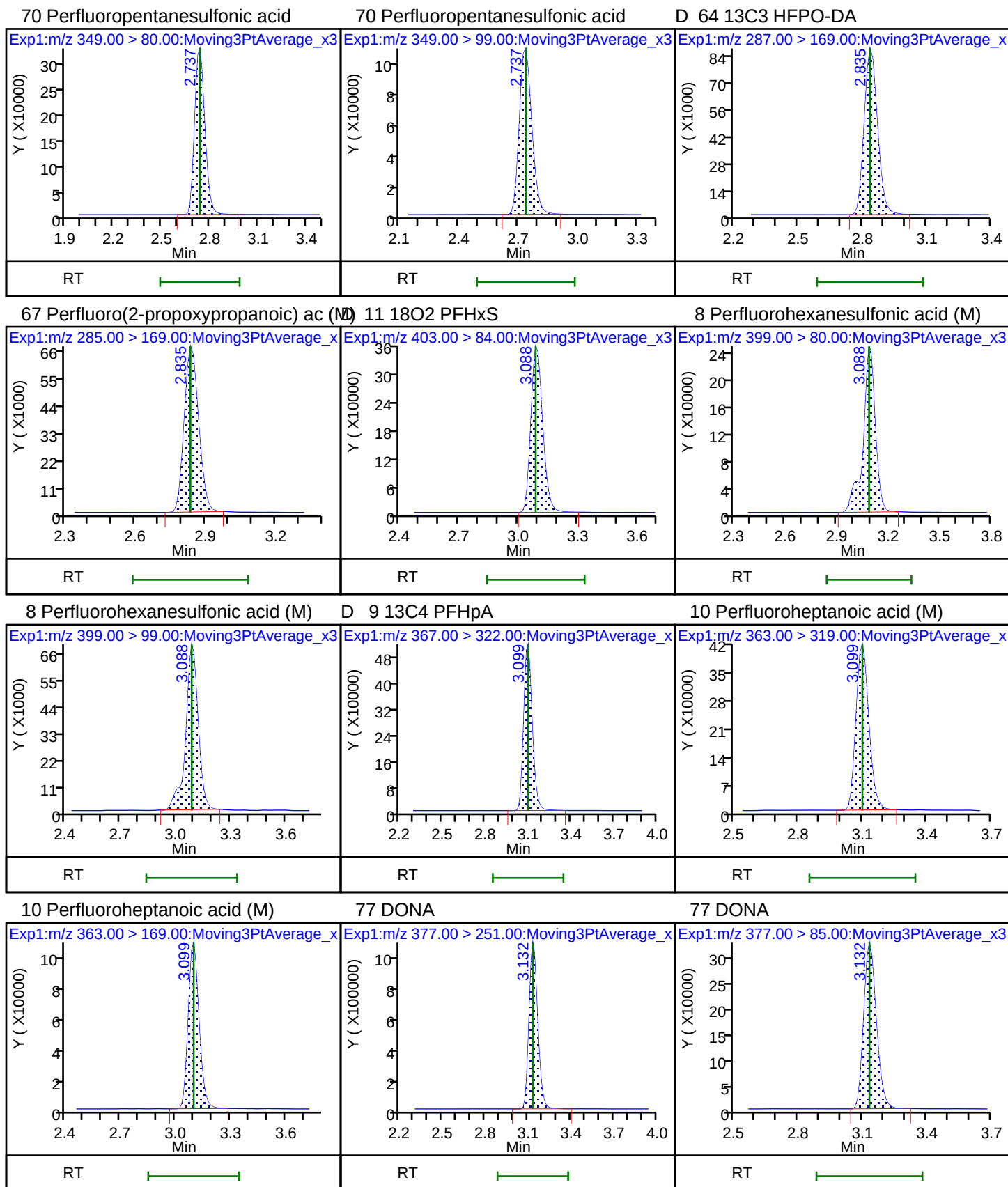


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

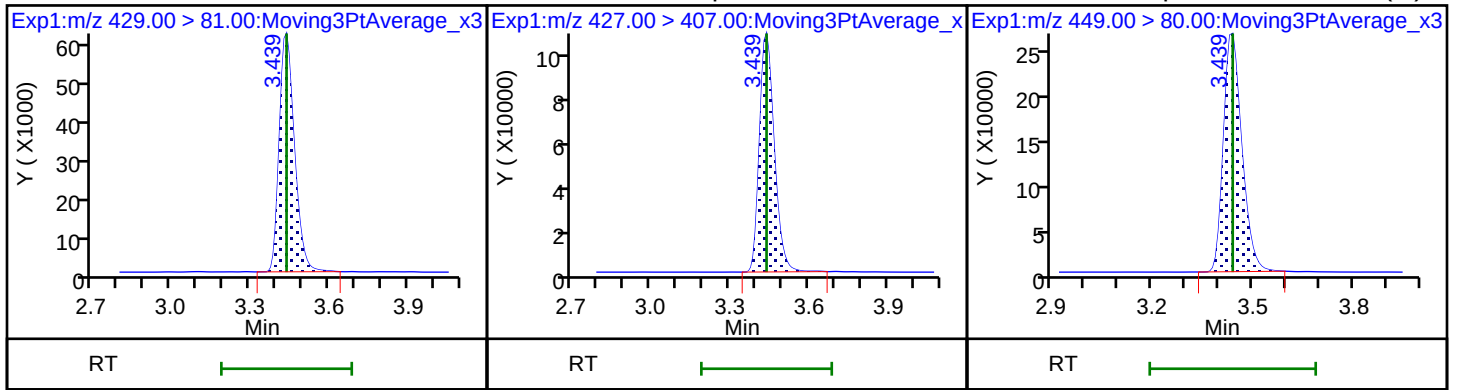




D 12 M2-6:2 FTS

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

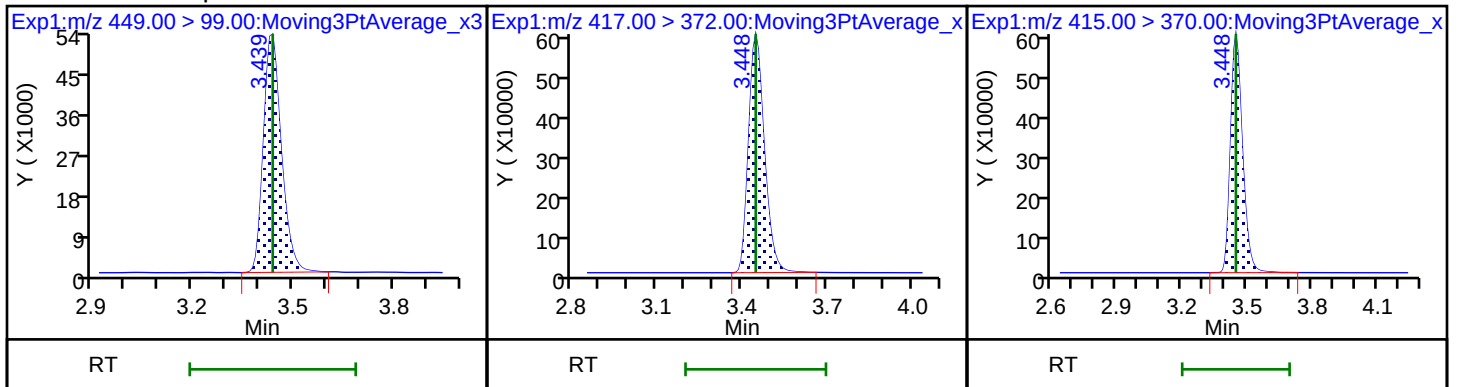
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

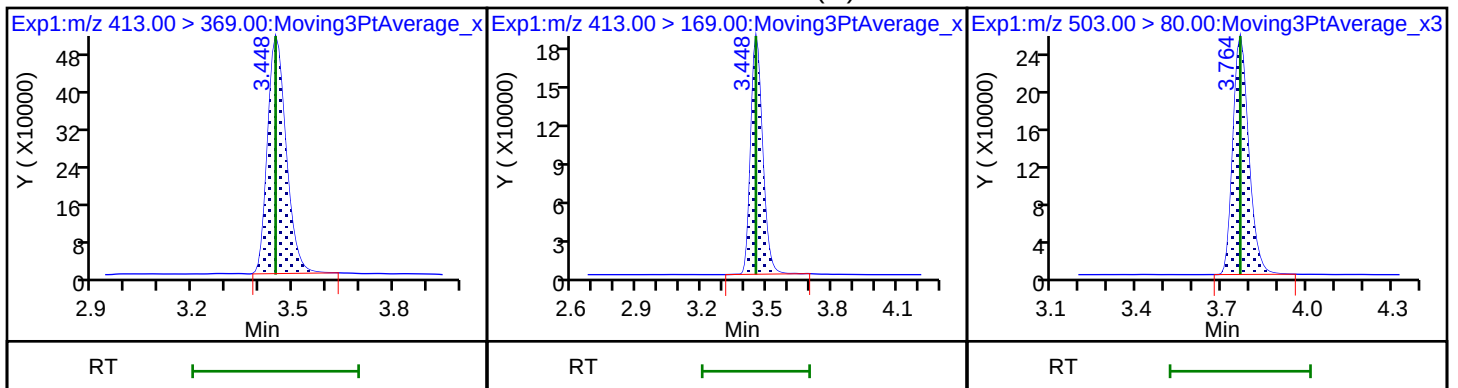
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

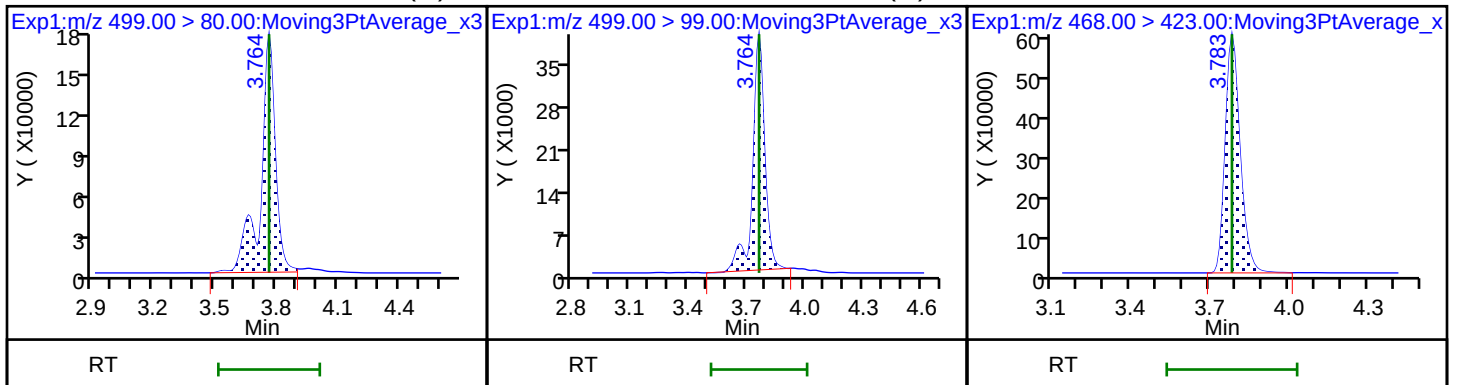
D 18 13C4 PFOS

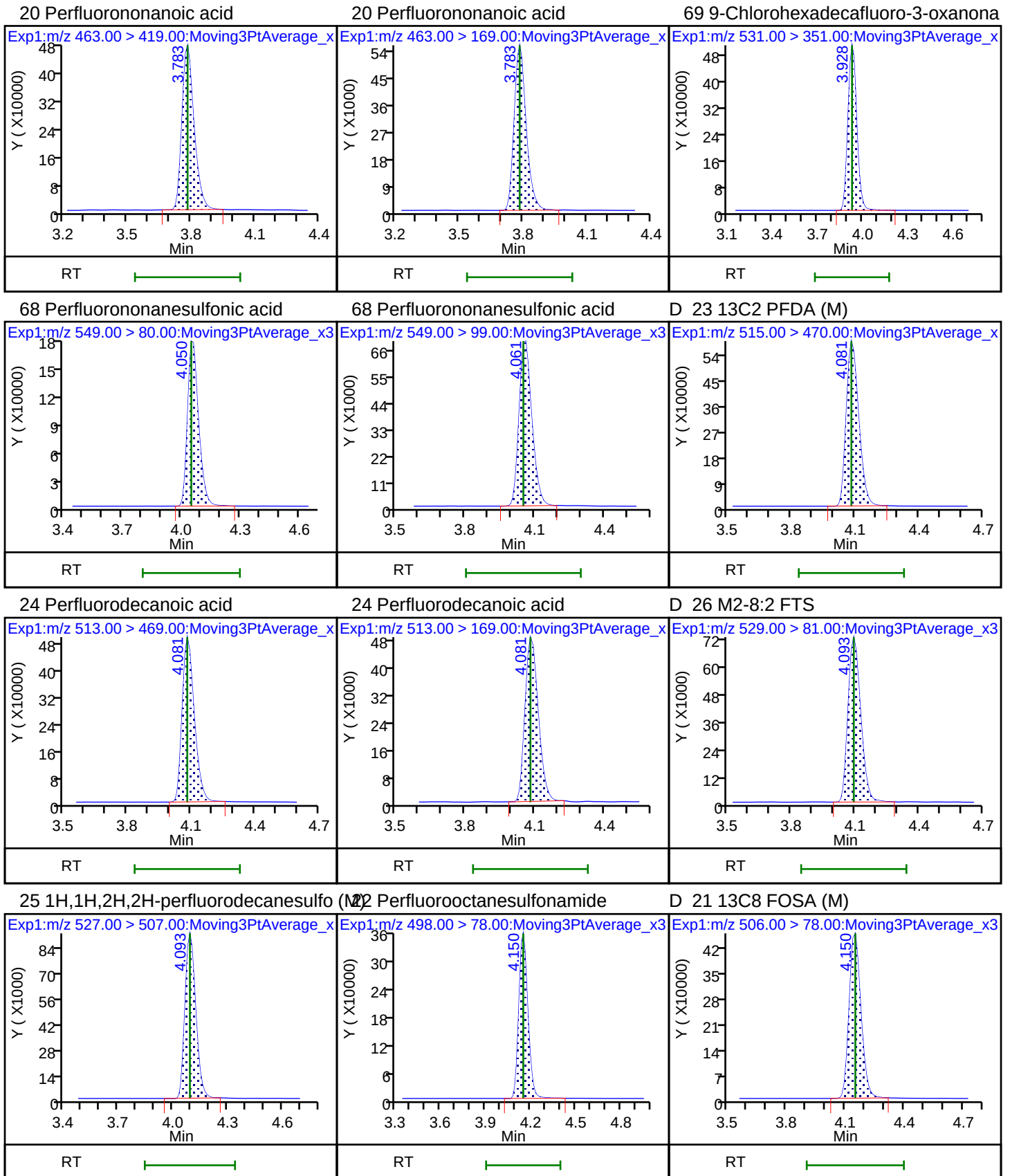


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

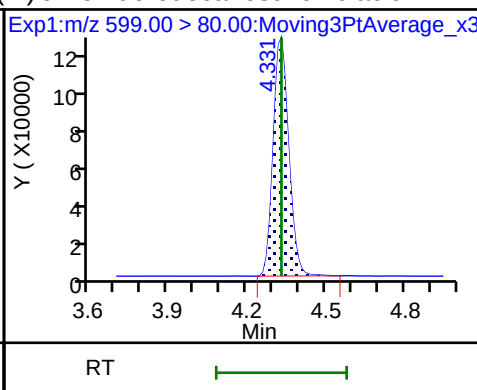
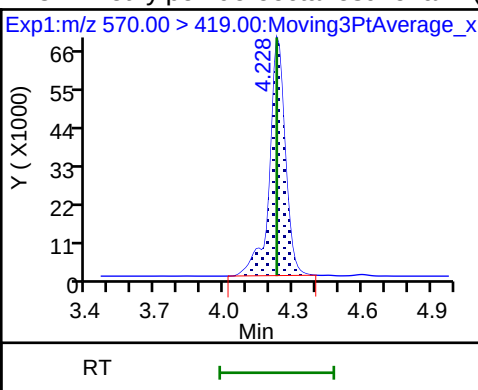
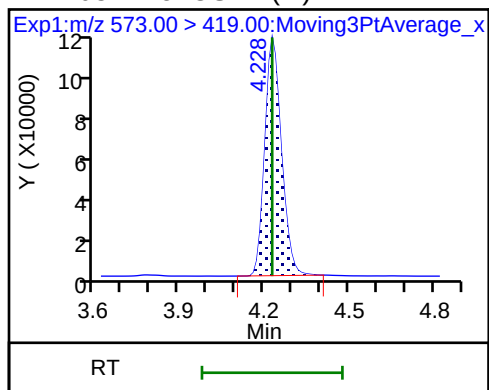




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

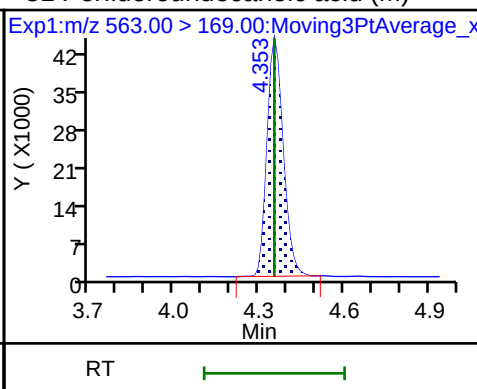
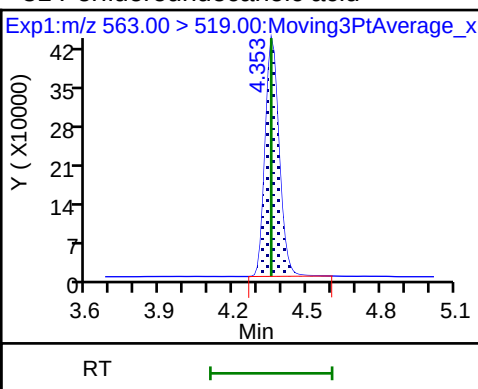
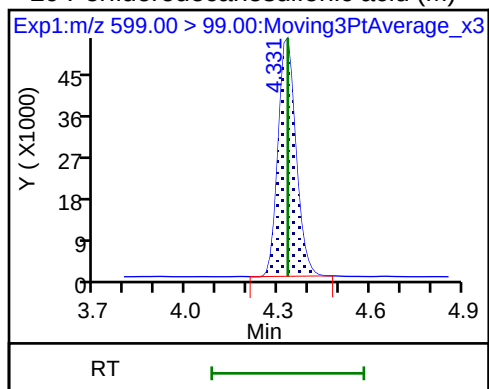
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

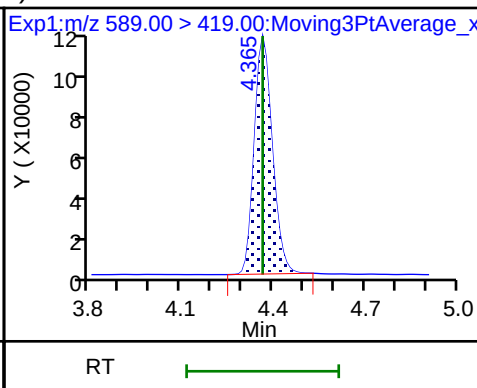
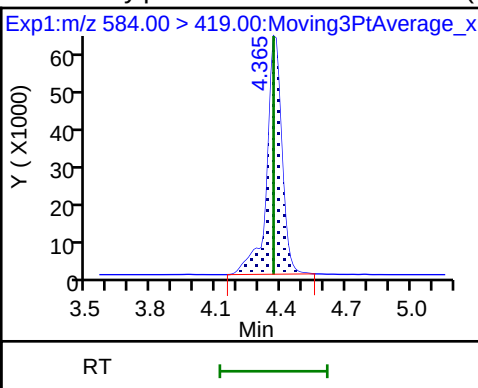
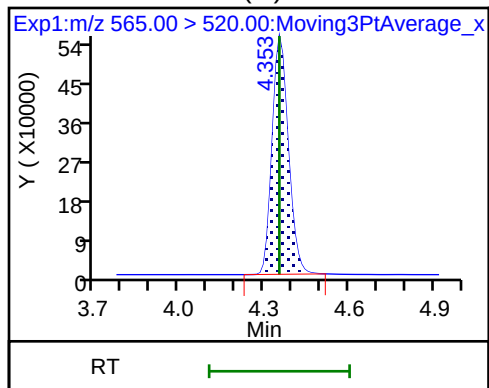
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA (M)

33 N-ethylperfluorooctanesulfonamid (M)

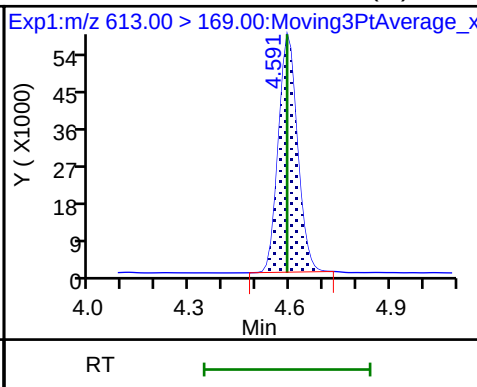
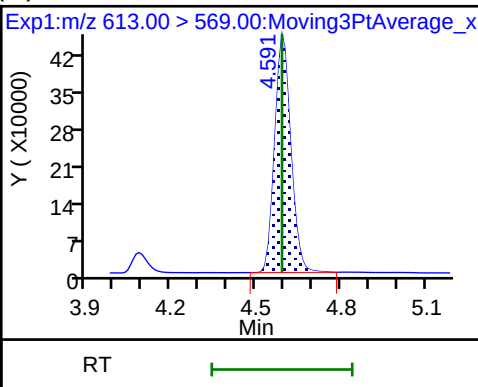
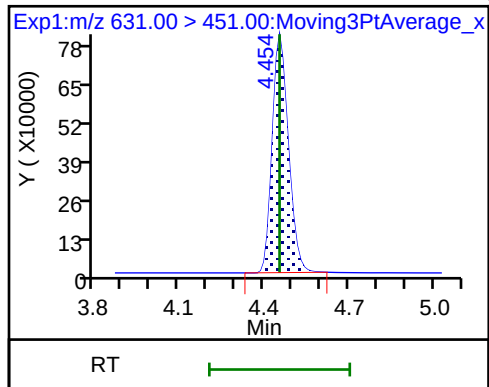
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

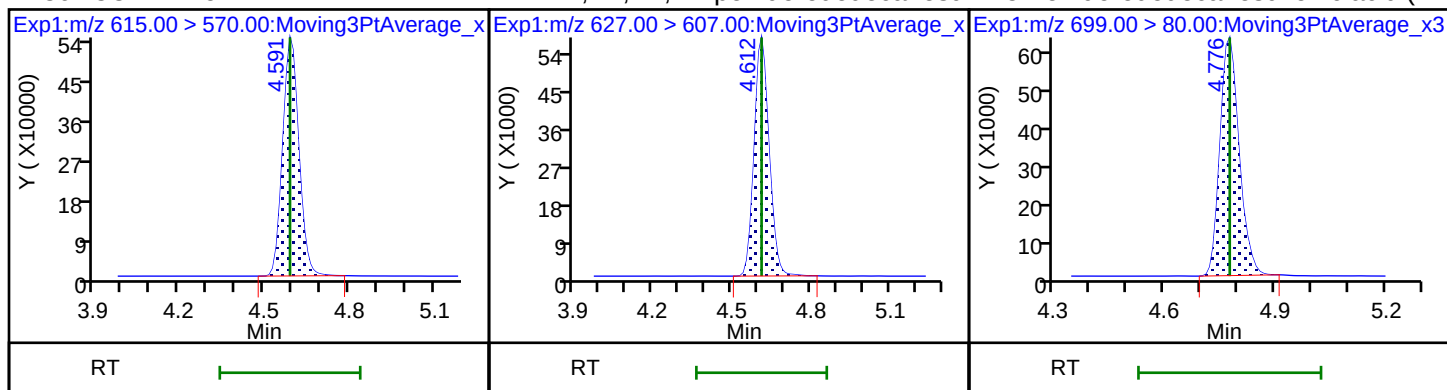
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



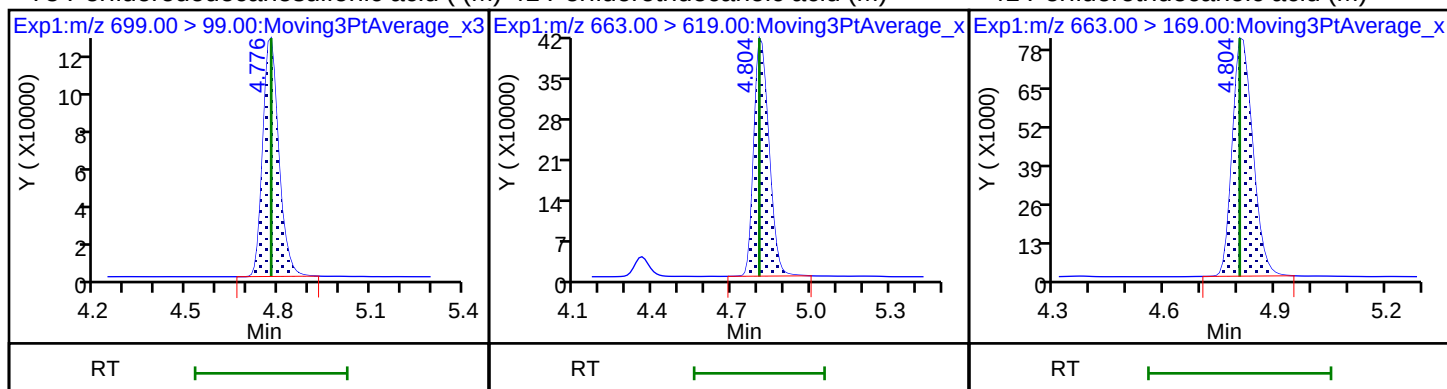
D 36 13C2 PFD0A

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



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

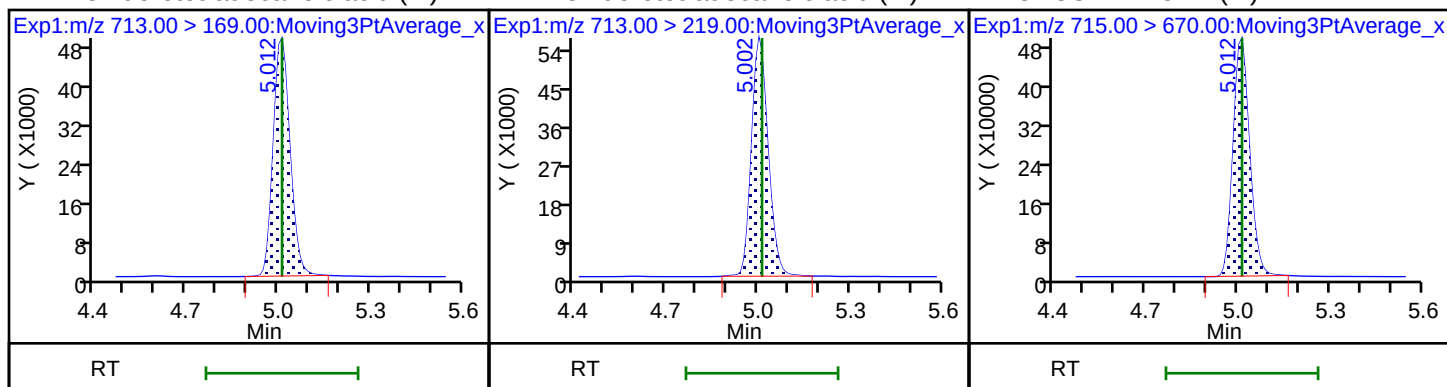
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

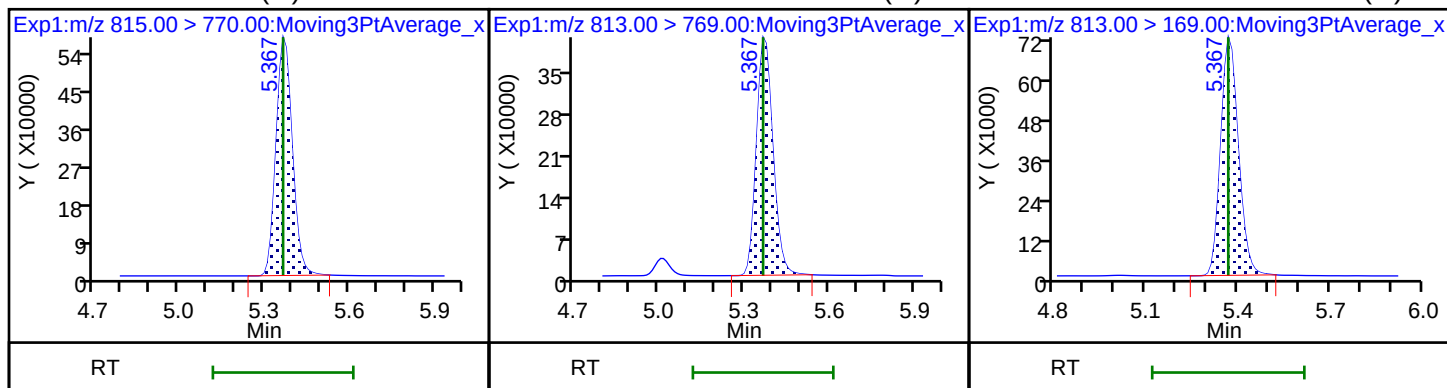
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

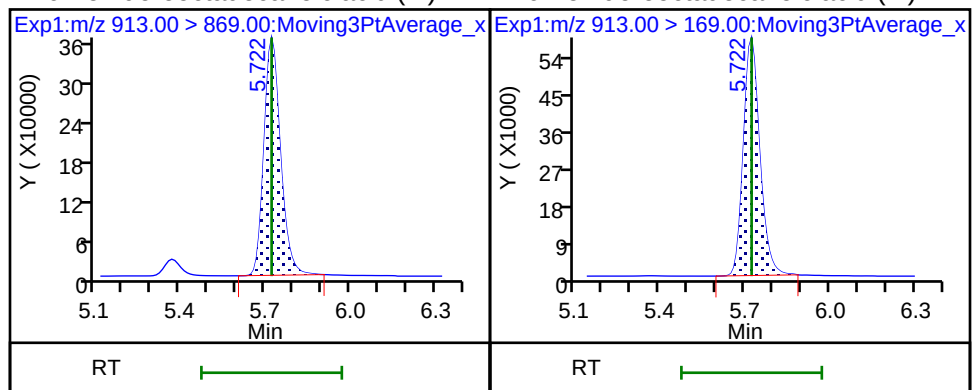
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

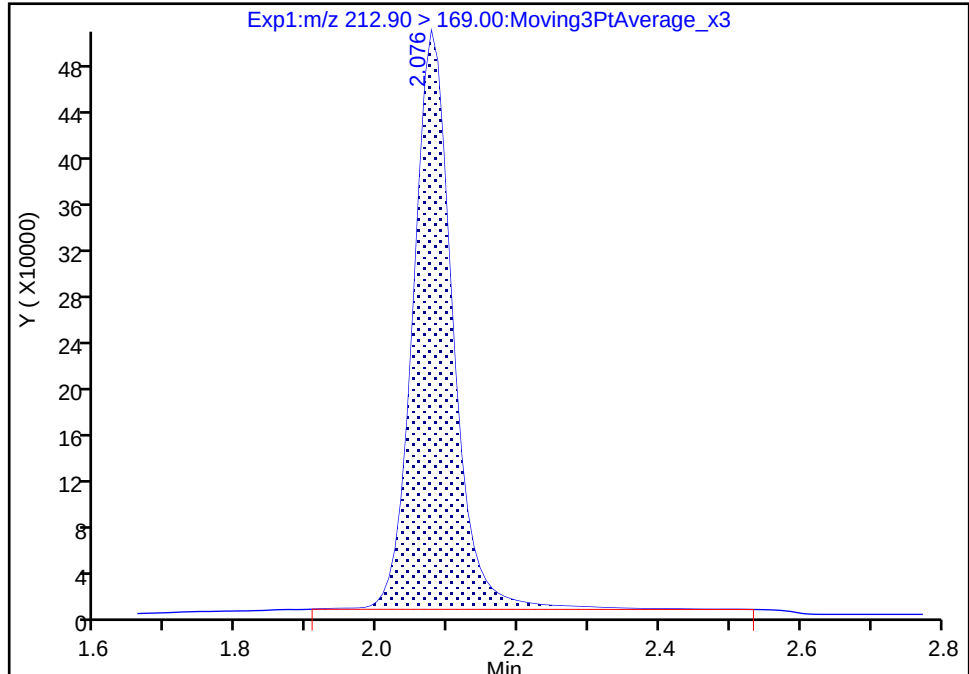
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

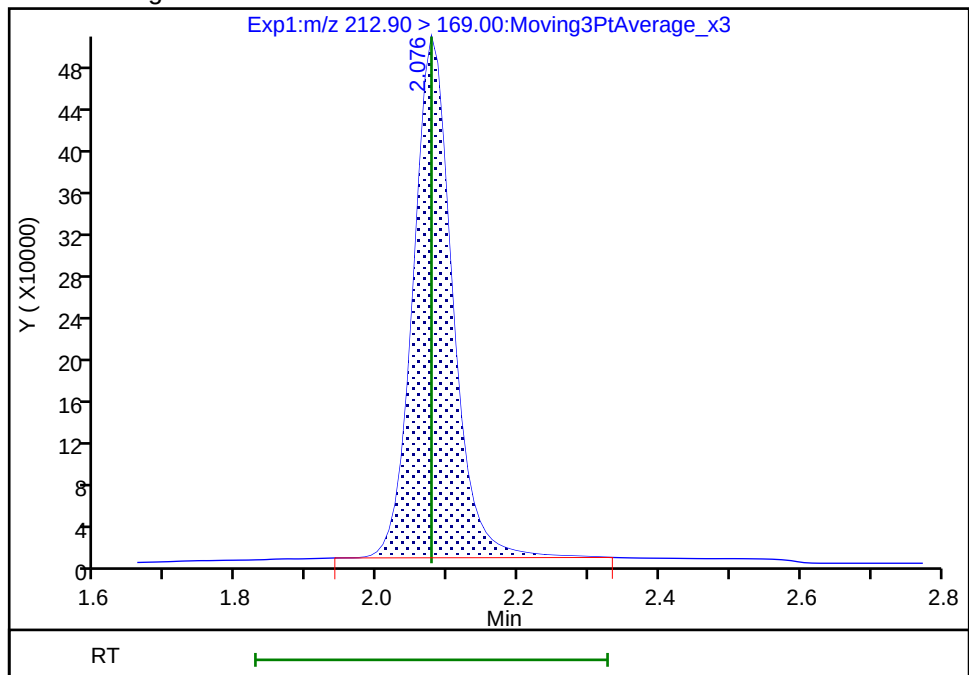
RT: 2.08
Area: 1938856
Amount: 0.884944
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1911392
Amount: 0.914020
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:05:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

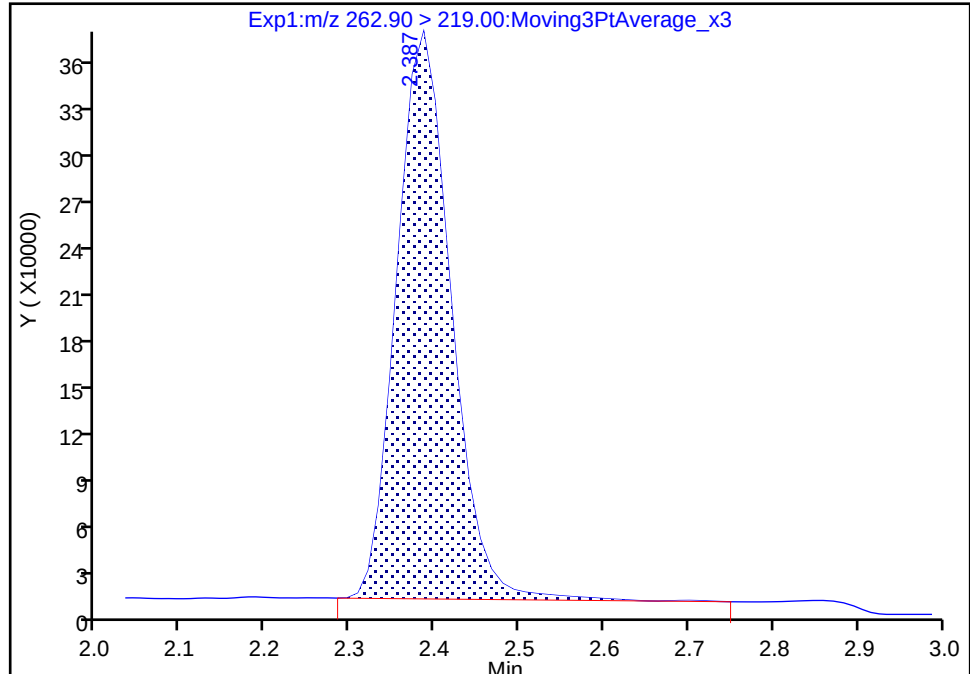
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

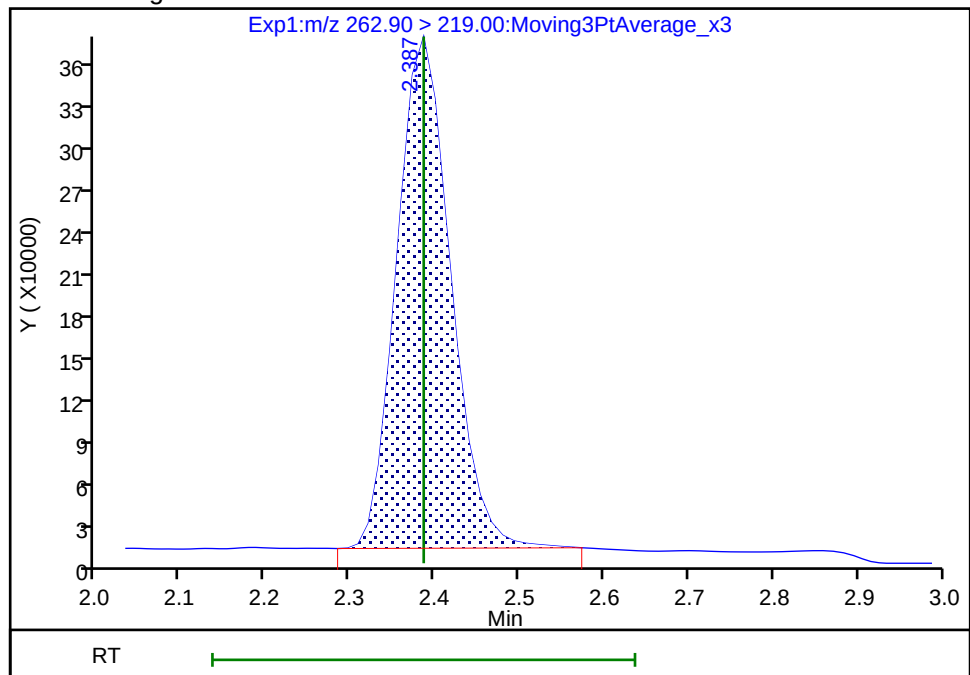
RT: 2.39
Area: 1625686
Amount: 0.903106
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1602160
Amount: 0.929116
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:05:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

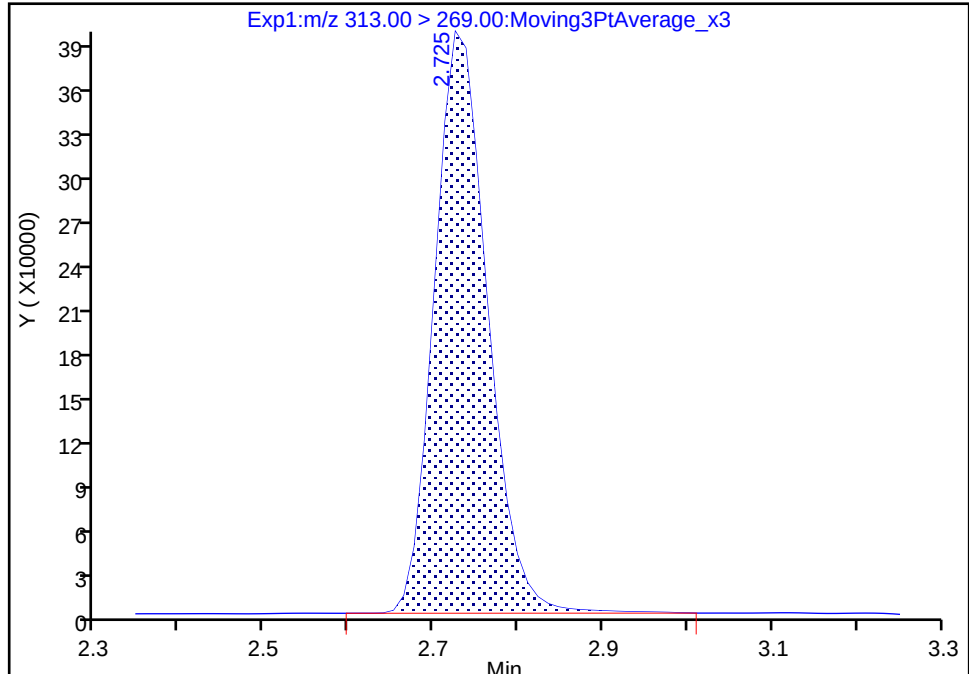
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

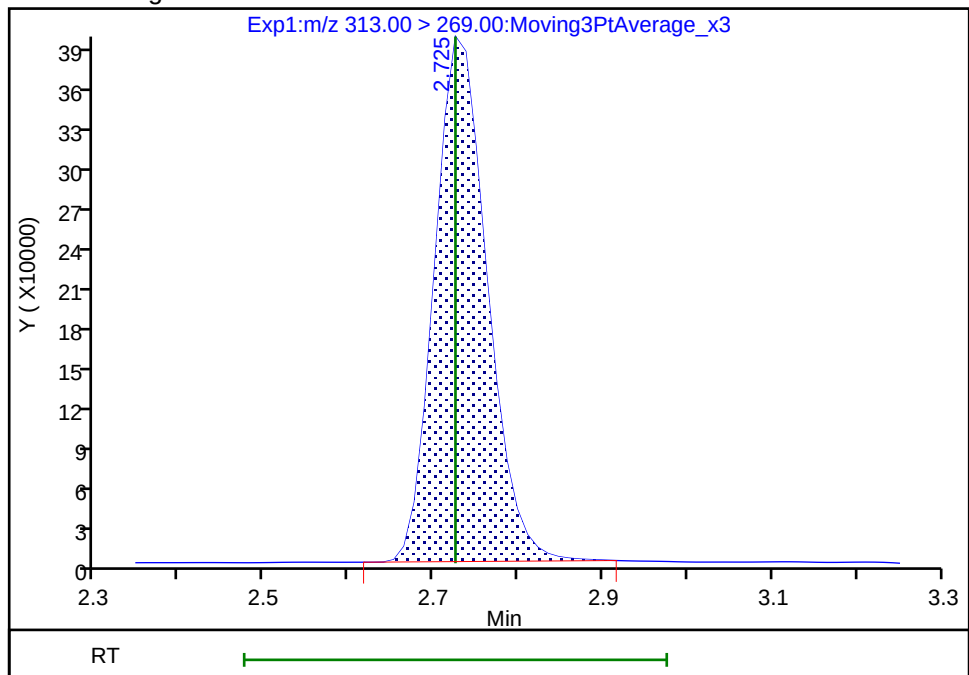
RT: 2.73
Area: 1717760
Amount: 0.925315
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1703495
Amount: 0.950815
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

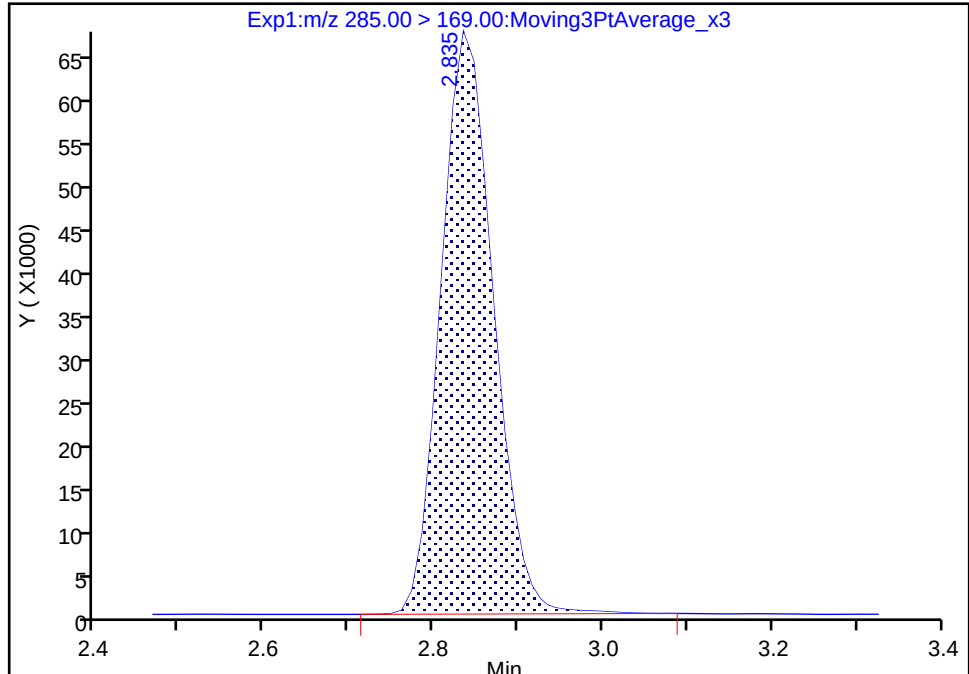
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

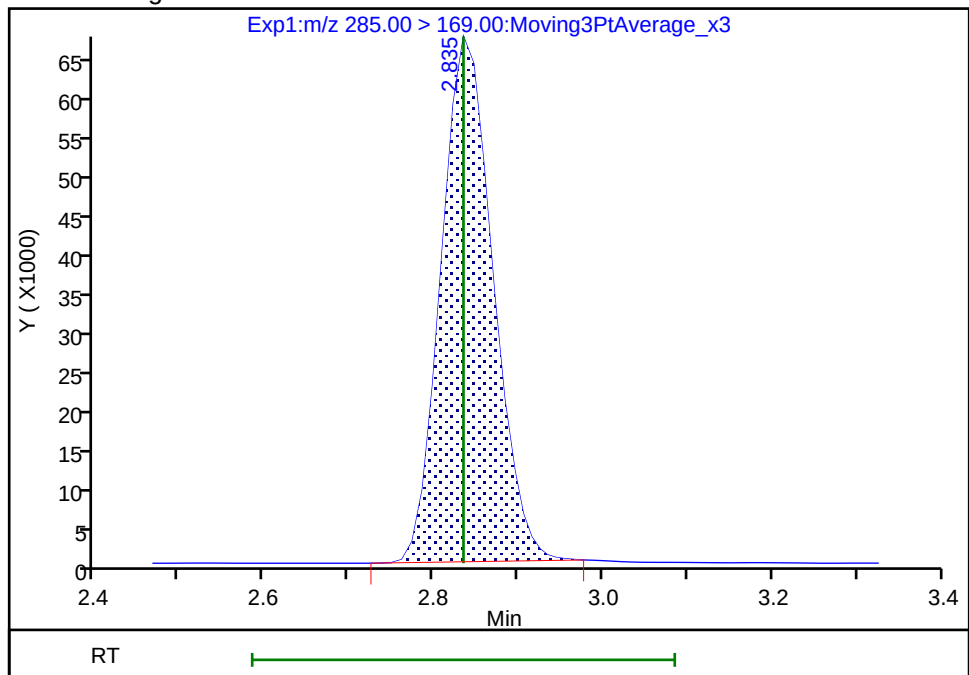
RT: 2.83
Area: 290381
Amount: 0.890585
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 286947
Amount: 0.910963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

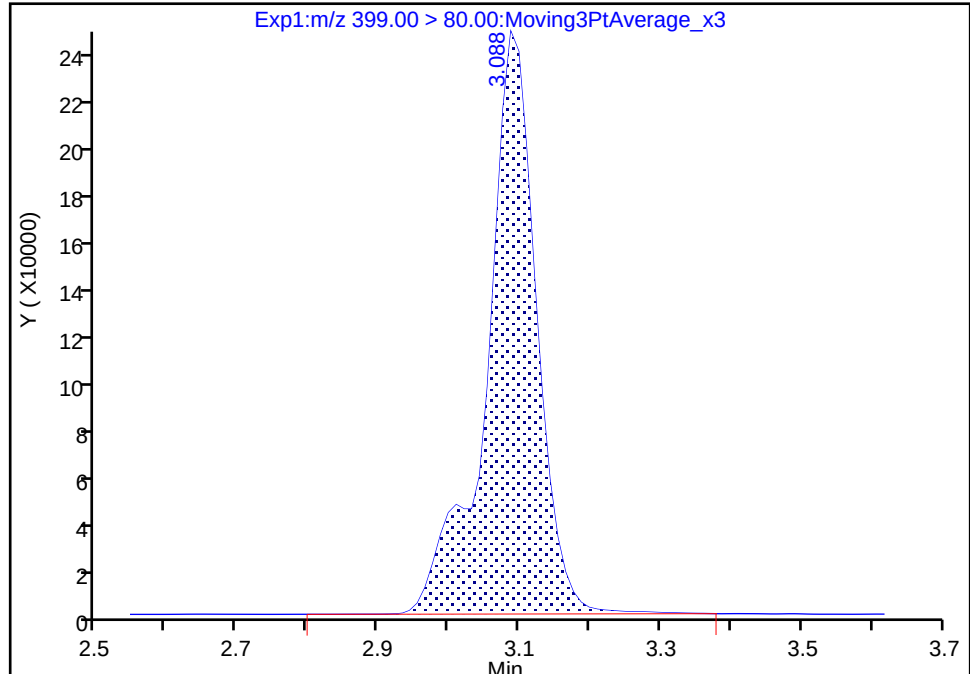
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

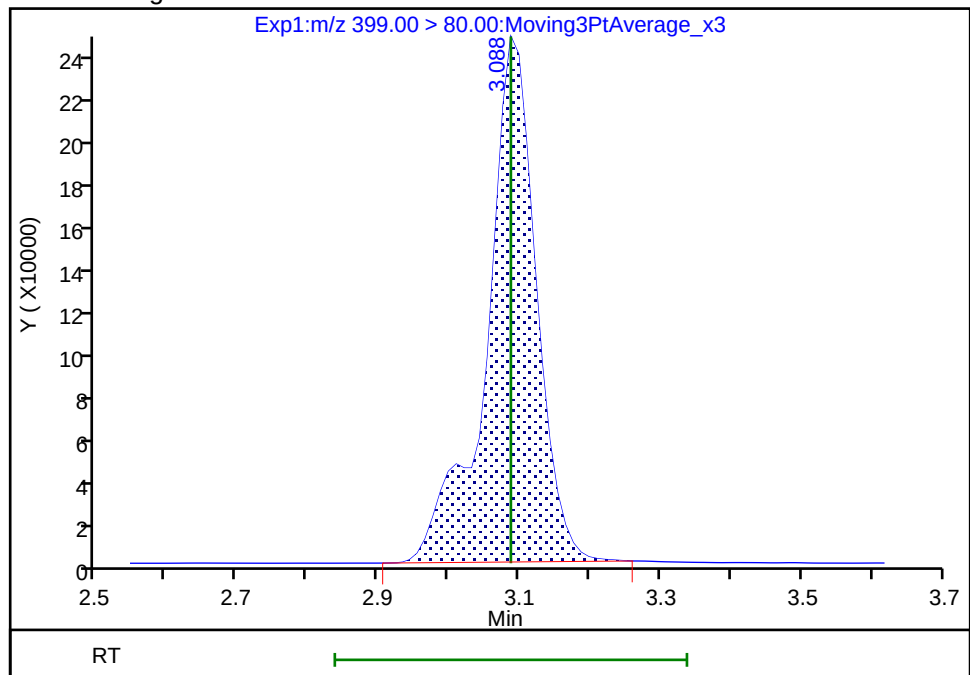
RT: 3.09
Area: 1192403
Amount: 0.844733
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1180858
Amount: 0.853808
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

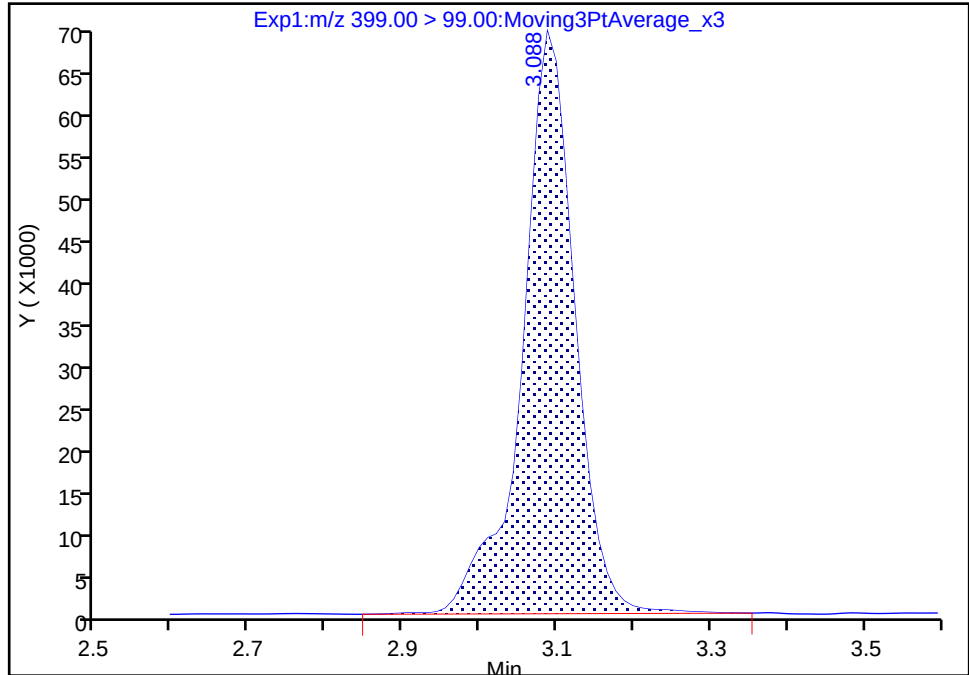
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

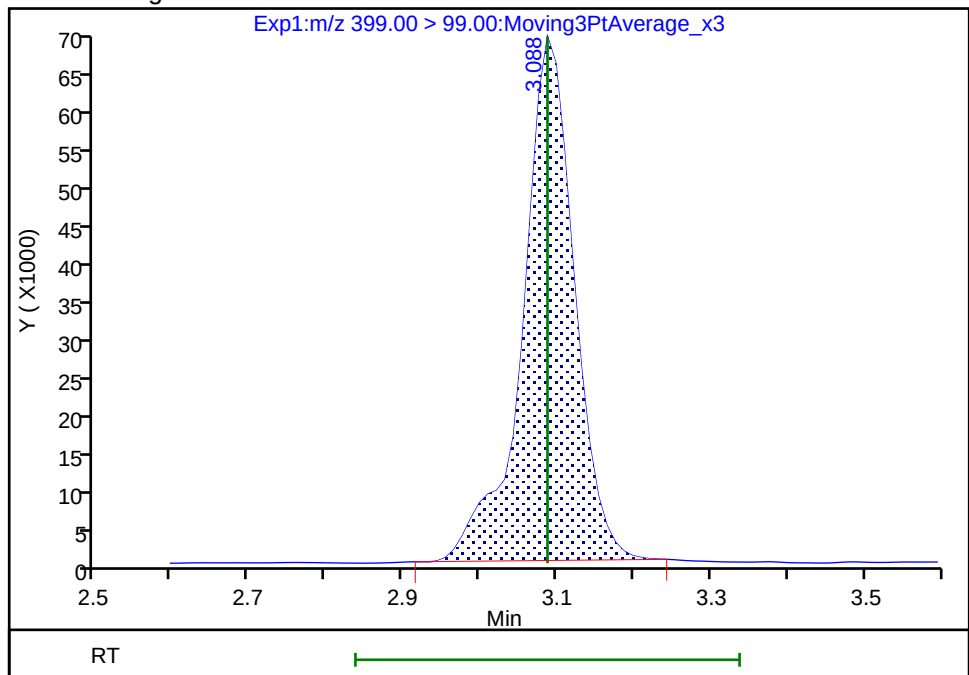
RT: 3.09
Area: 329620
Amount: 0.844733
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 322894
Amount: 0.853808
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 378 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

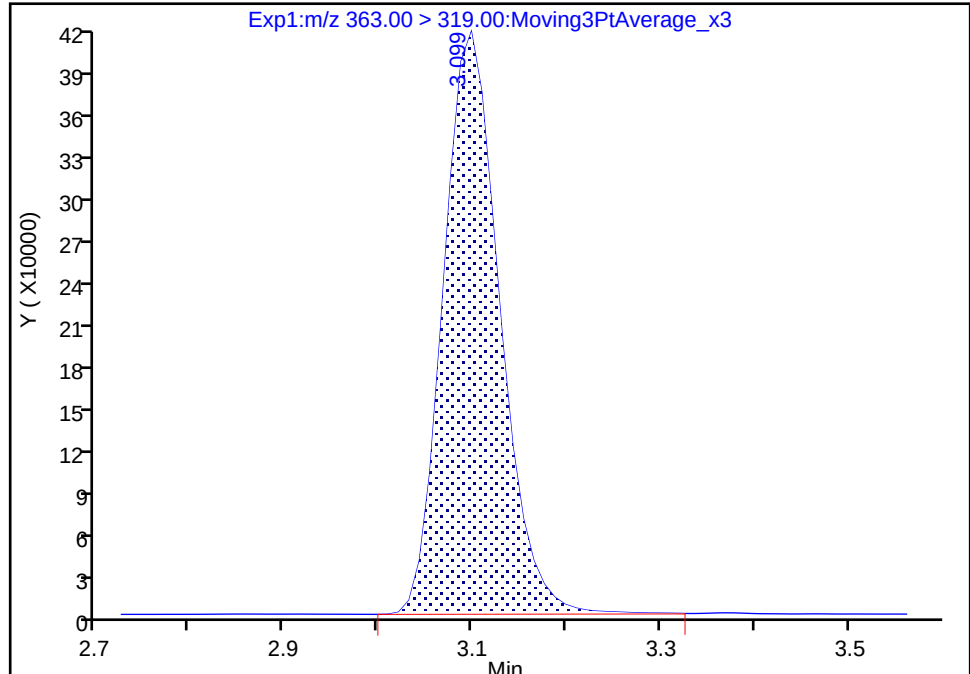
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

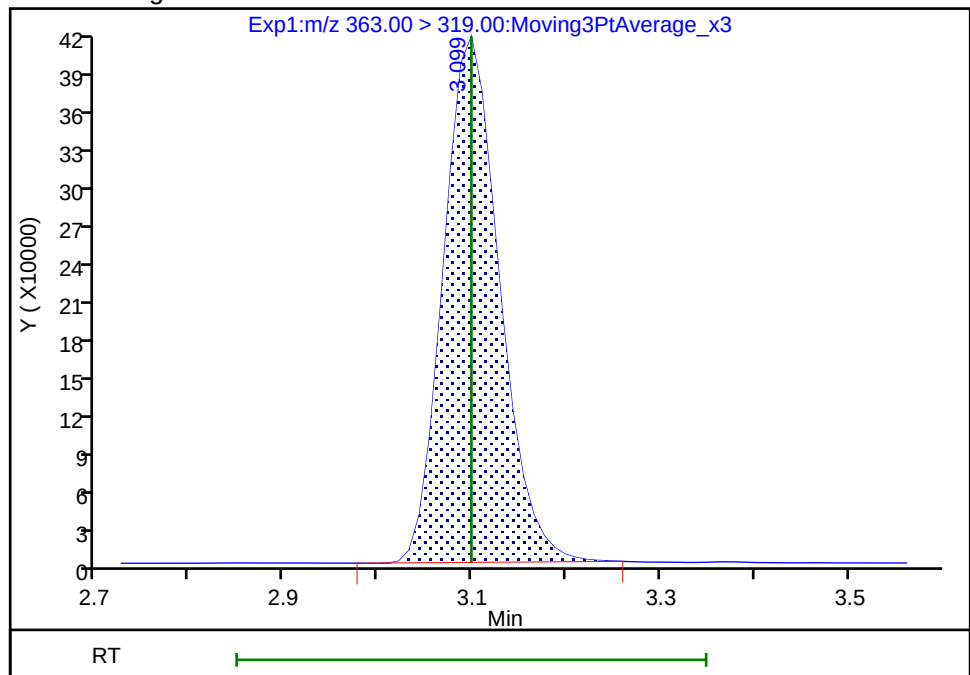
RT: 3.10
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Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1718424
Amount: 0.929257
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

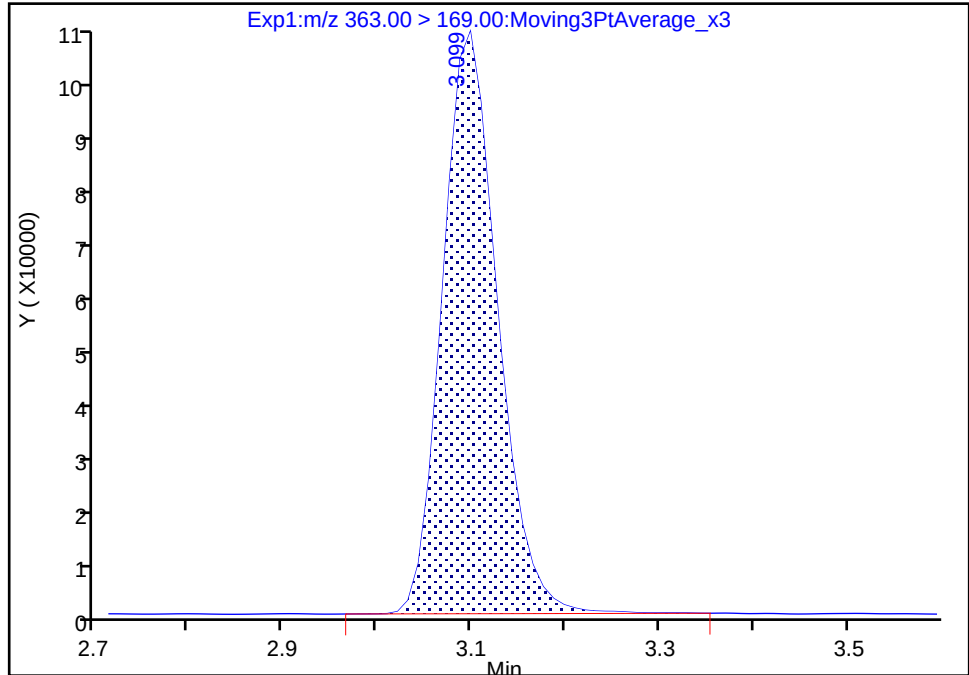
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

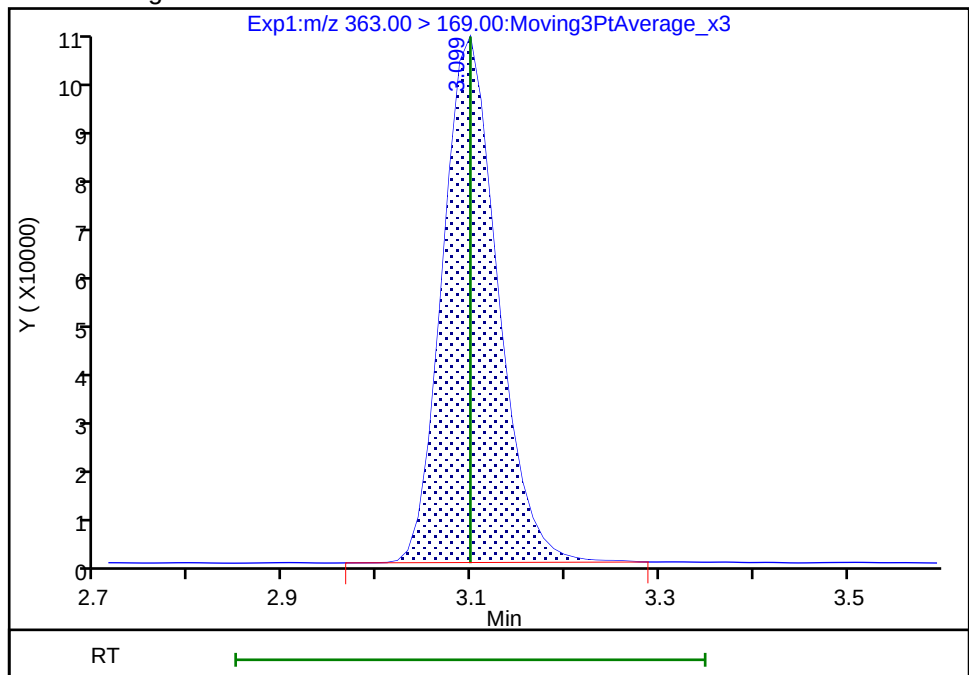
RT: 3.10
Area: 434169
Amount: 0.896761
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 433271
Amount: 0.929257
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

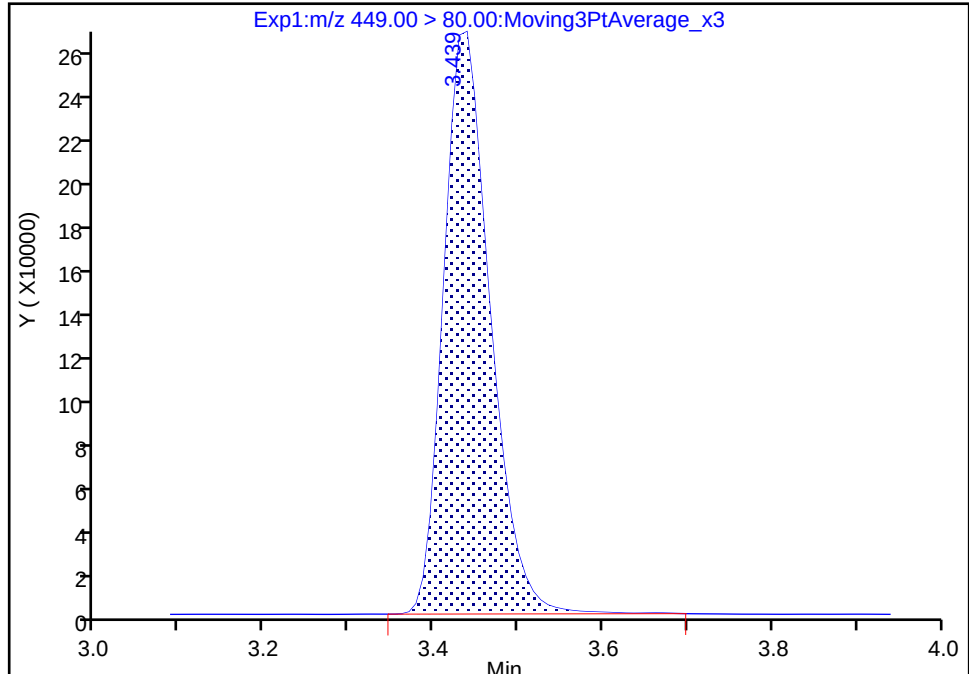
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

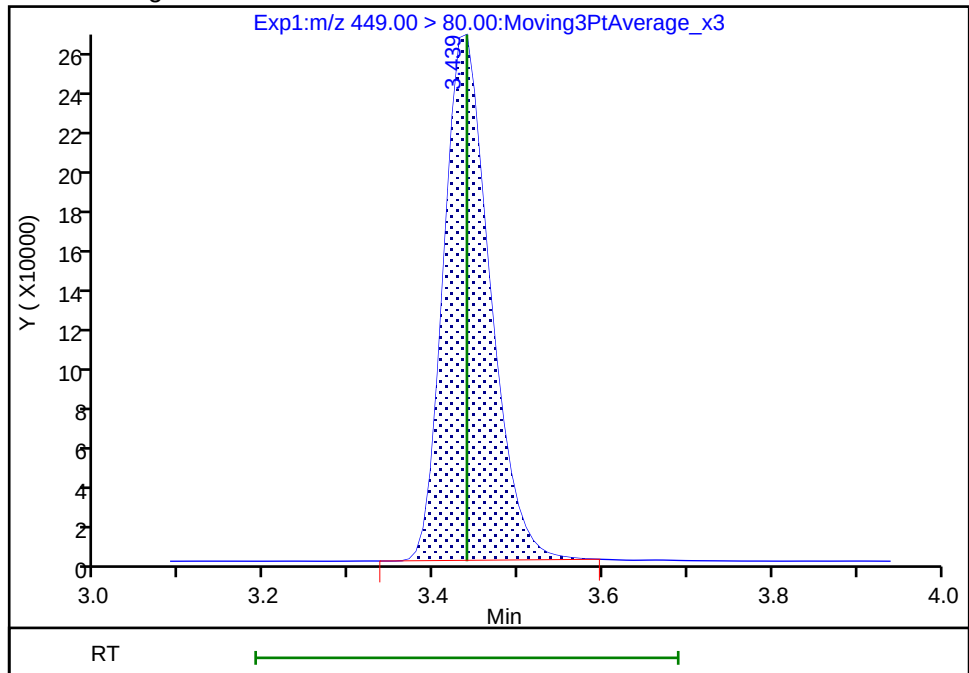
RT: 3.44
Area: 1029711
Amount: 0.878234
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1021904
Amount: 0.903742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

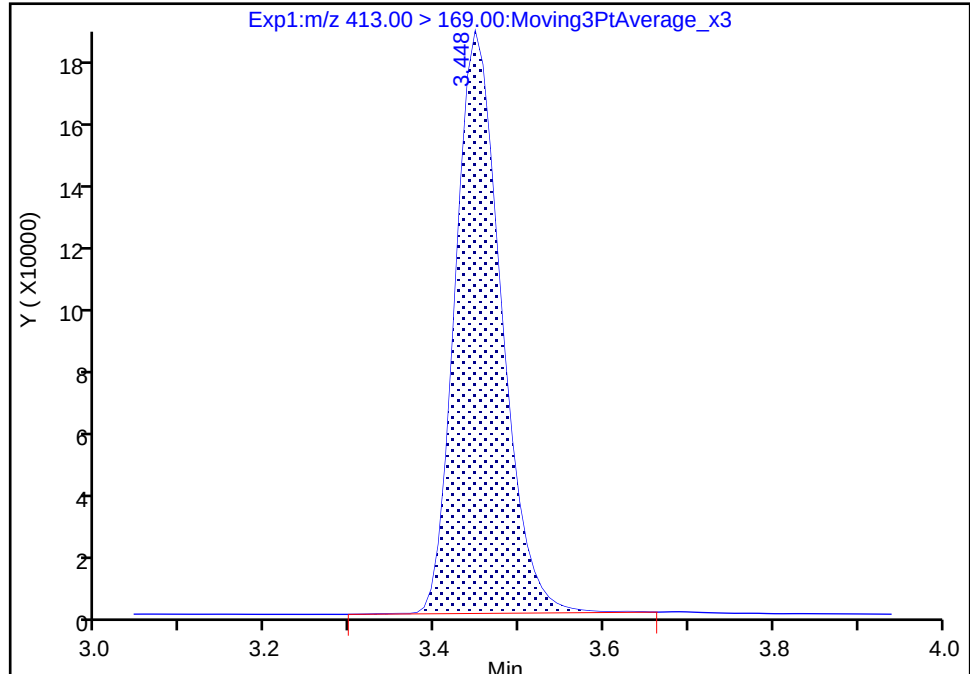
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

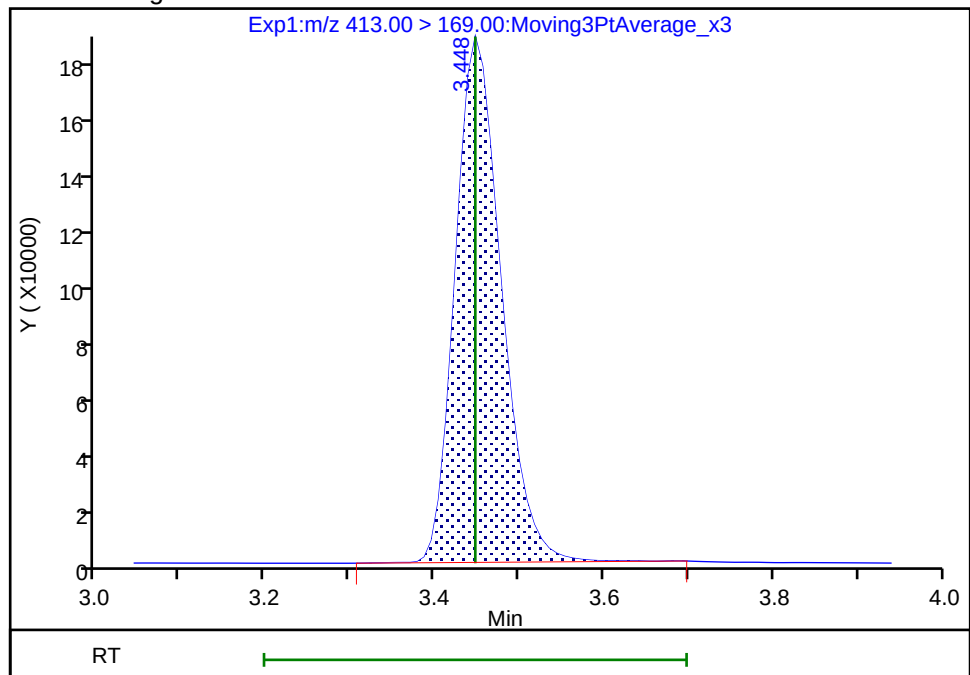
RT: 3.45
Area: 697013
Amount: 0.942395
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 696928
Amount: 0.971476
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

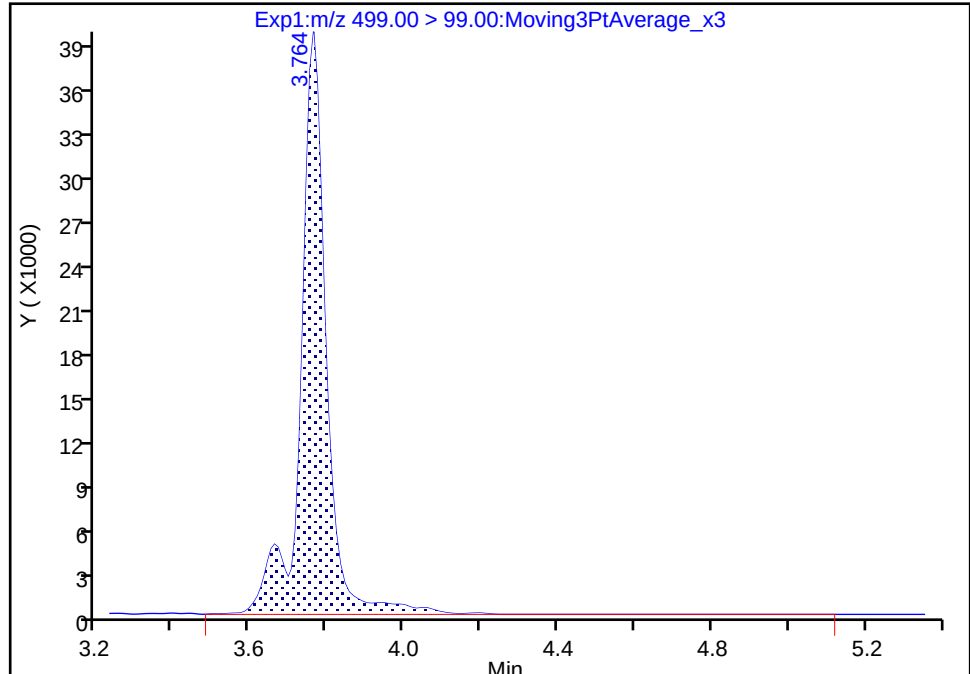
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

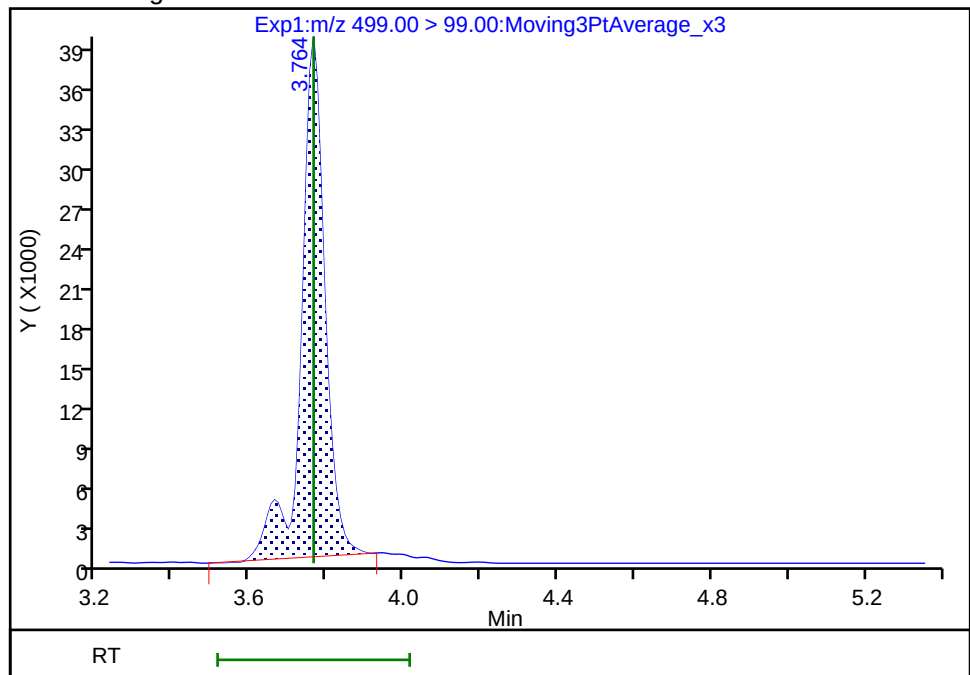
RT: 3.76
Area: 184243
Amount: 0.869089
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 167691
Amount: 0.869962
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

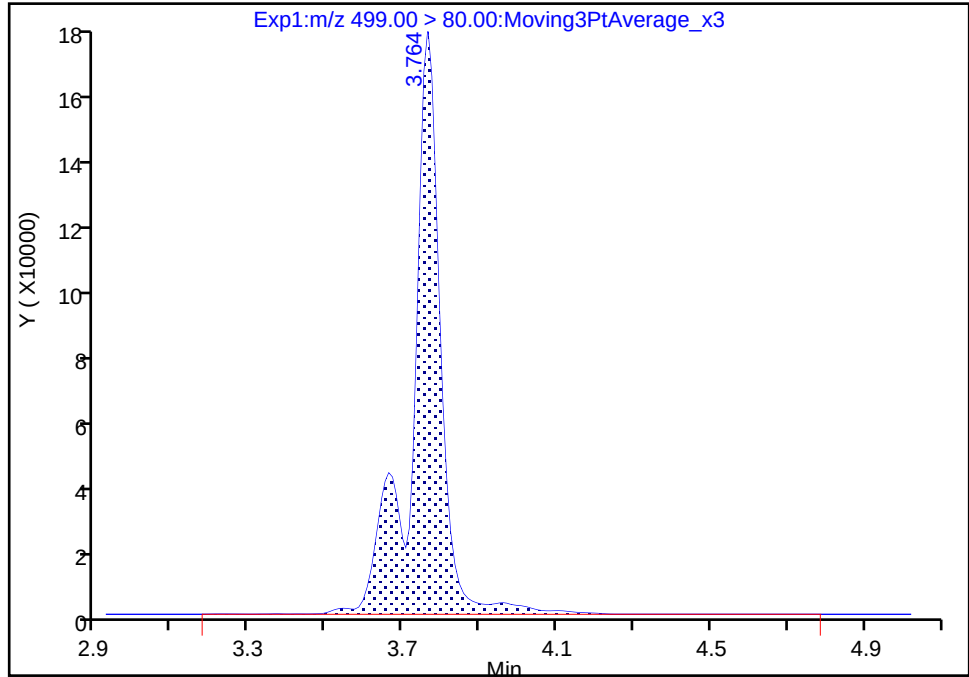
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

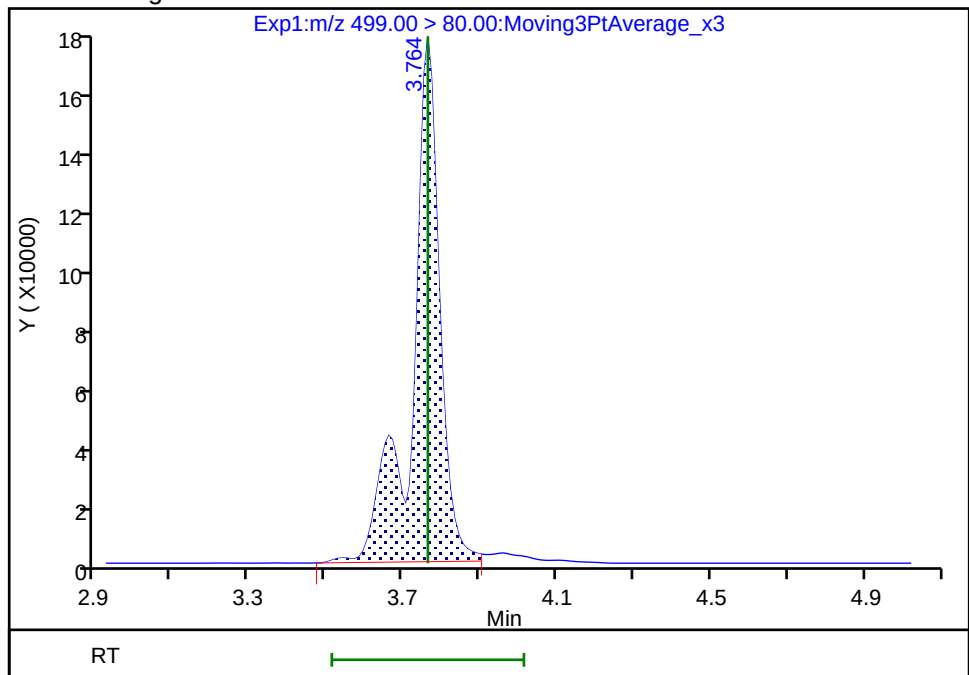
RT: 3.76
Area: 896764
Amount: 0.869089
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 856526
Amount: 0.869962
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

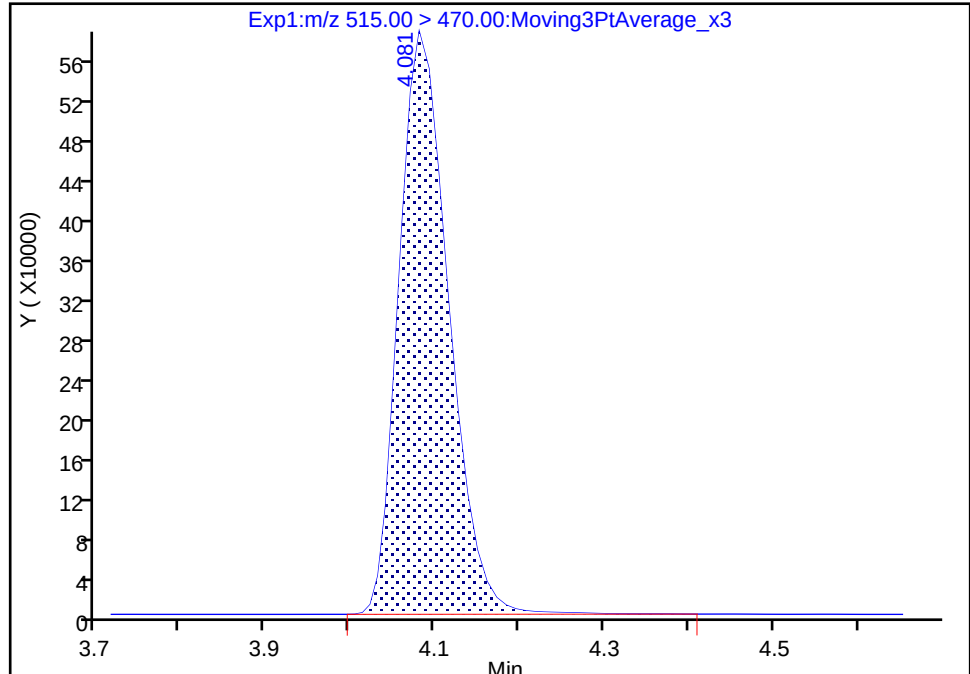
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

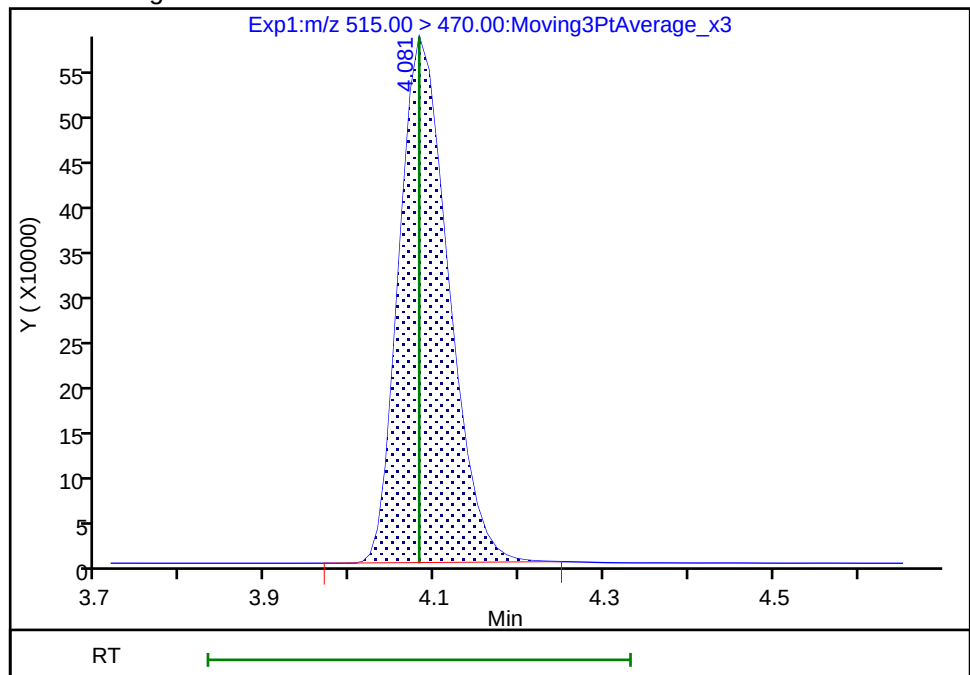
RT: 4.08
Area: 2402943
Amount: 1.278353
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2384612
Amount: 1.249811
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

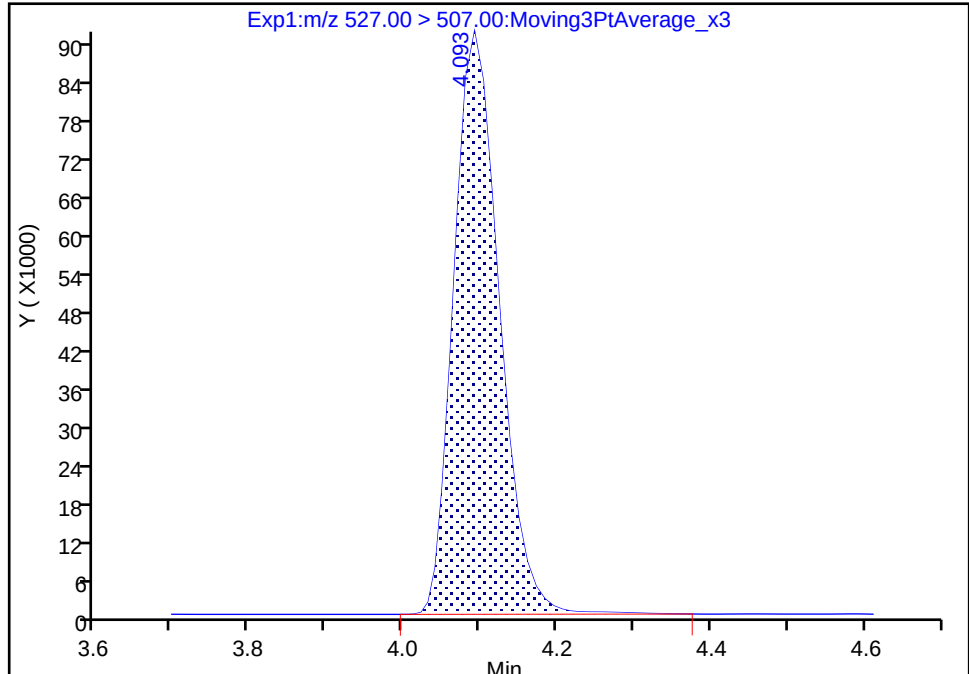
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Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

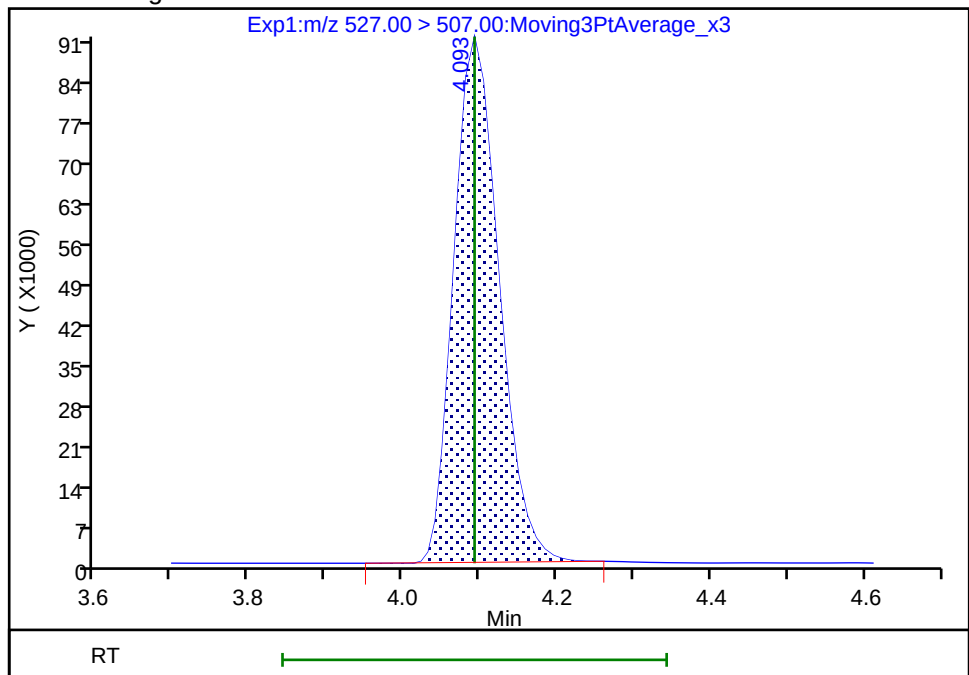
RT: 4.09
Area: 374620
Amount: 0.906768
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 370895
Amount: 0.914804
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

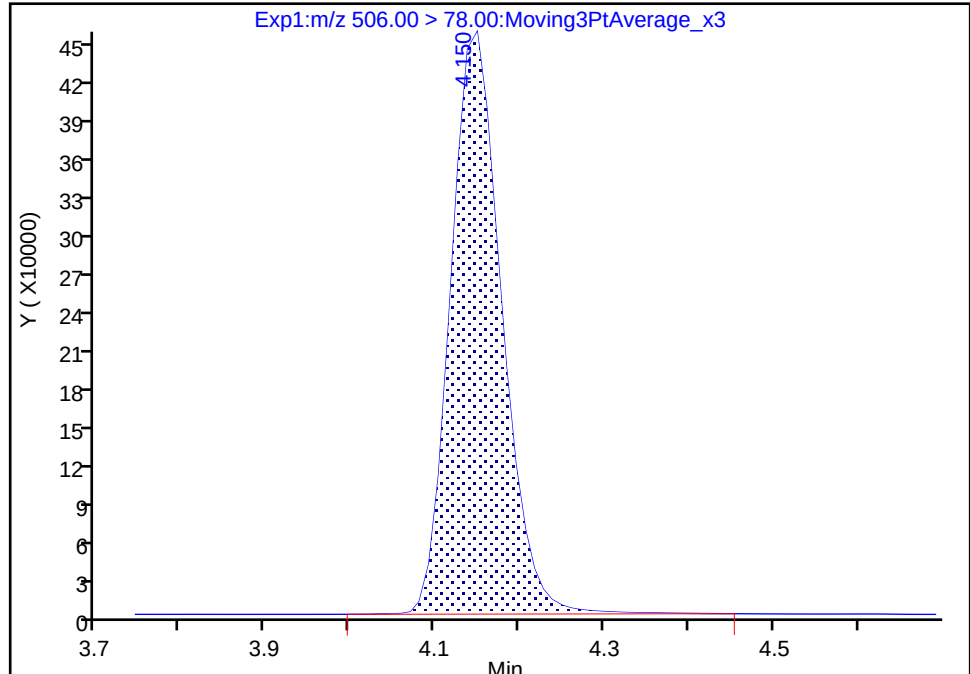
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

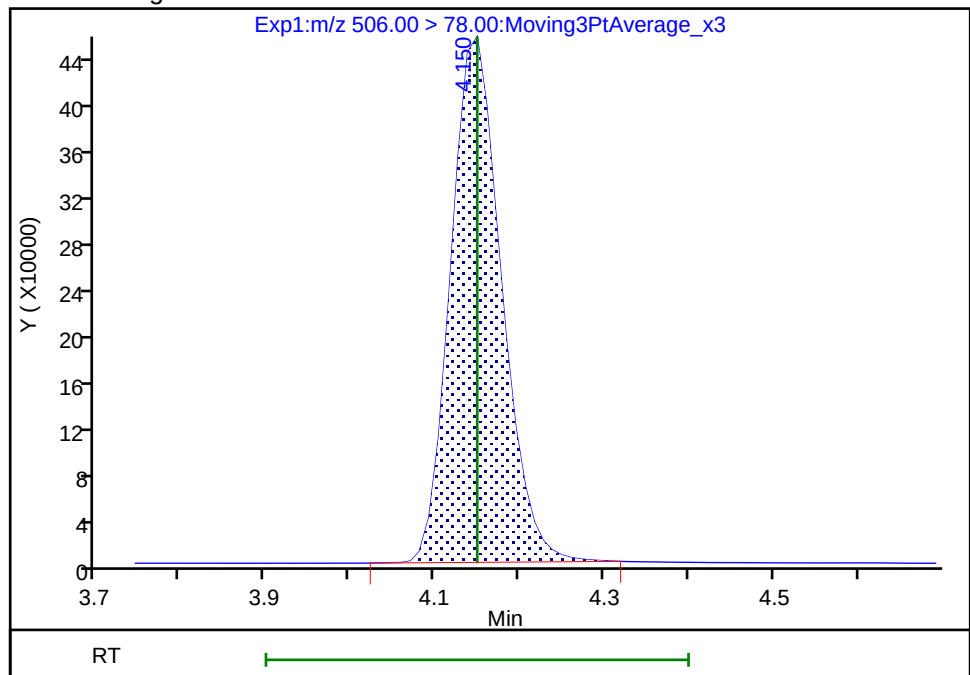
RT: 4.15
Area: 1894765
Amount: 1.237228
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1879604
Amount: 1.201614
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

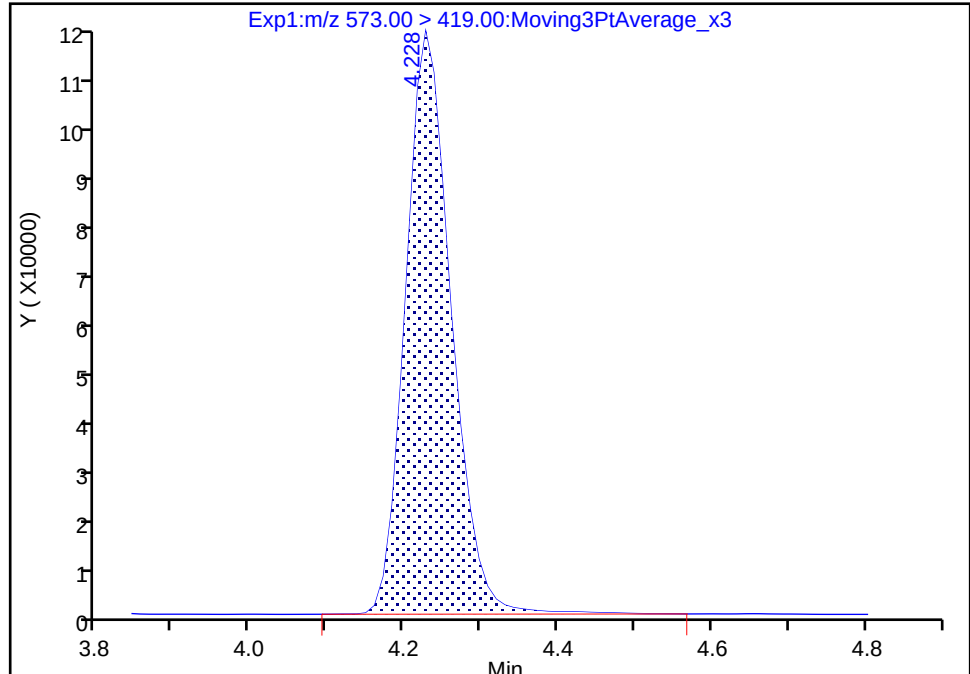
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

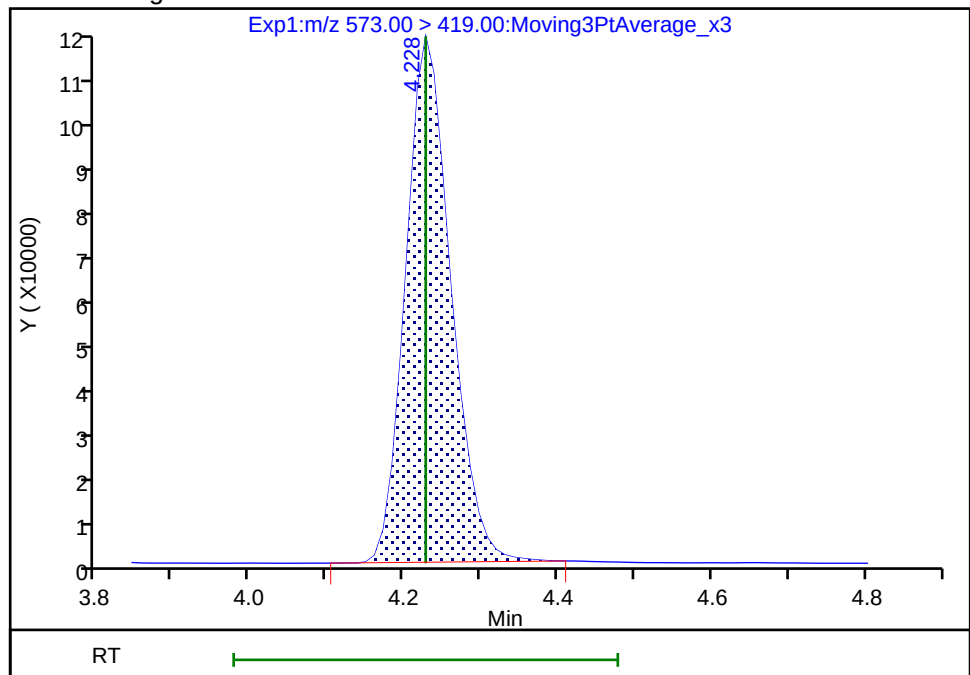
RT: 4.23
Area: 475916
Amount: 1.264715
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 470154
Amount: 1.210231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

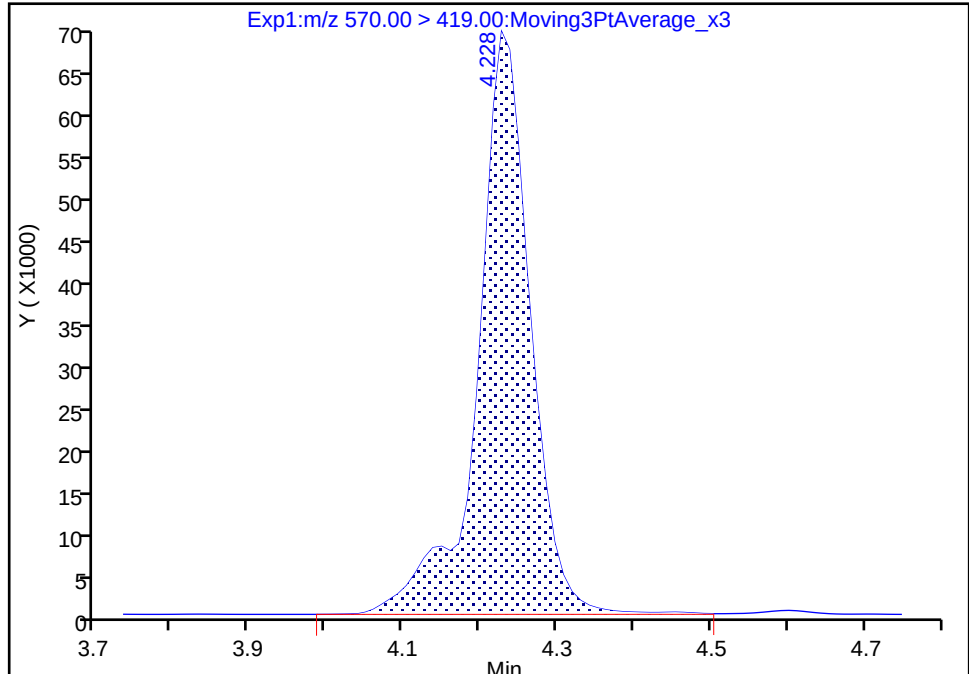
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

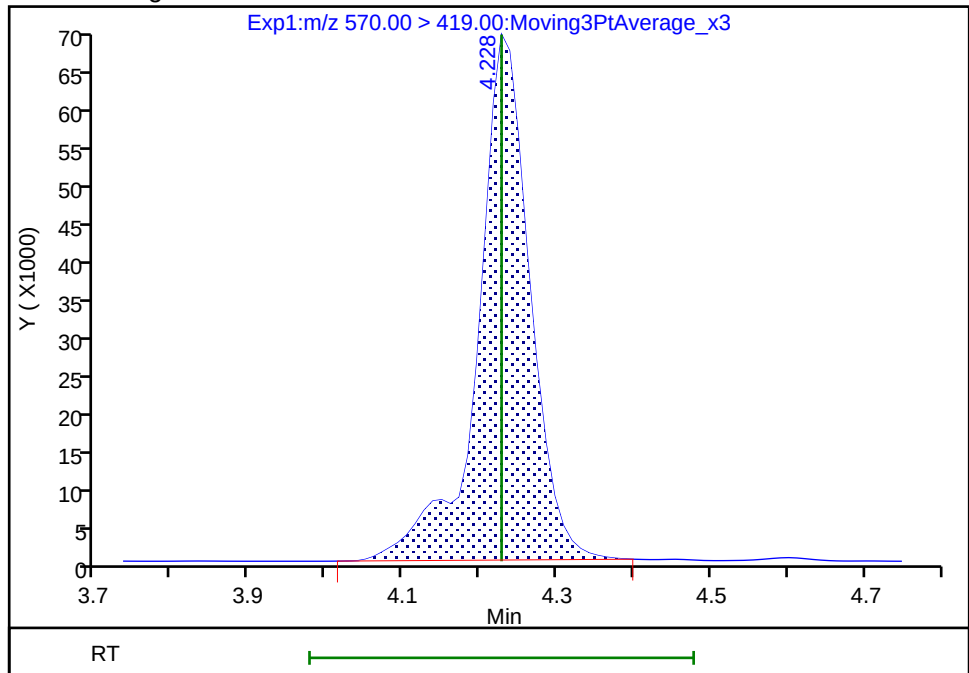
RT: 4.23
Area: 329390
Amount: 0.922352
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 324897
Amount: 0.992512
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

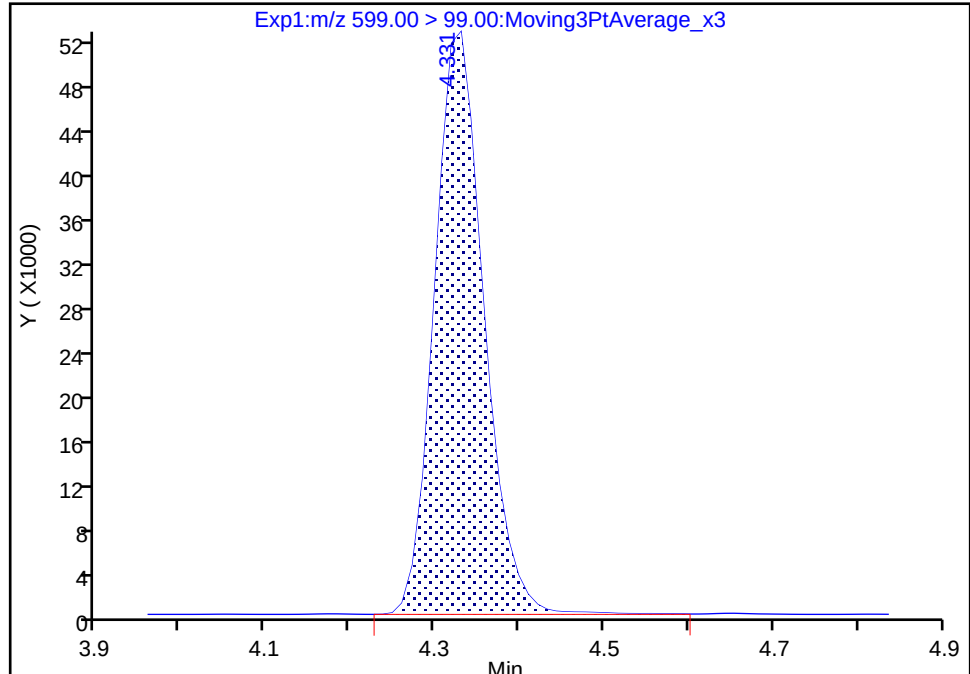
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

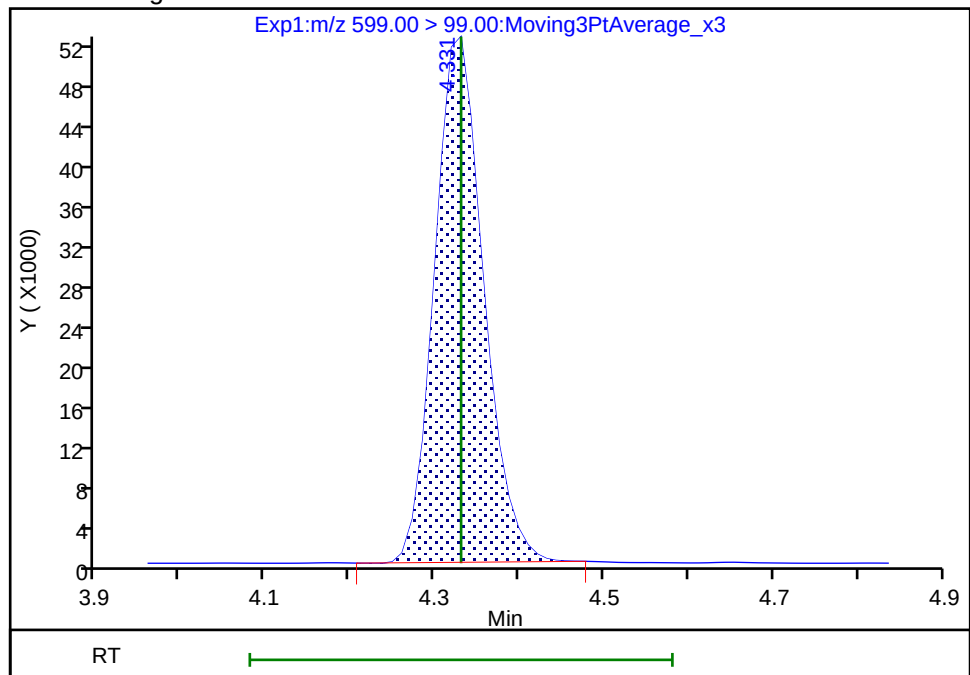
RT: 4.33
Area: 213157
Amount: 0.885111
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 210859
Amount: 0.900485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

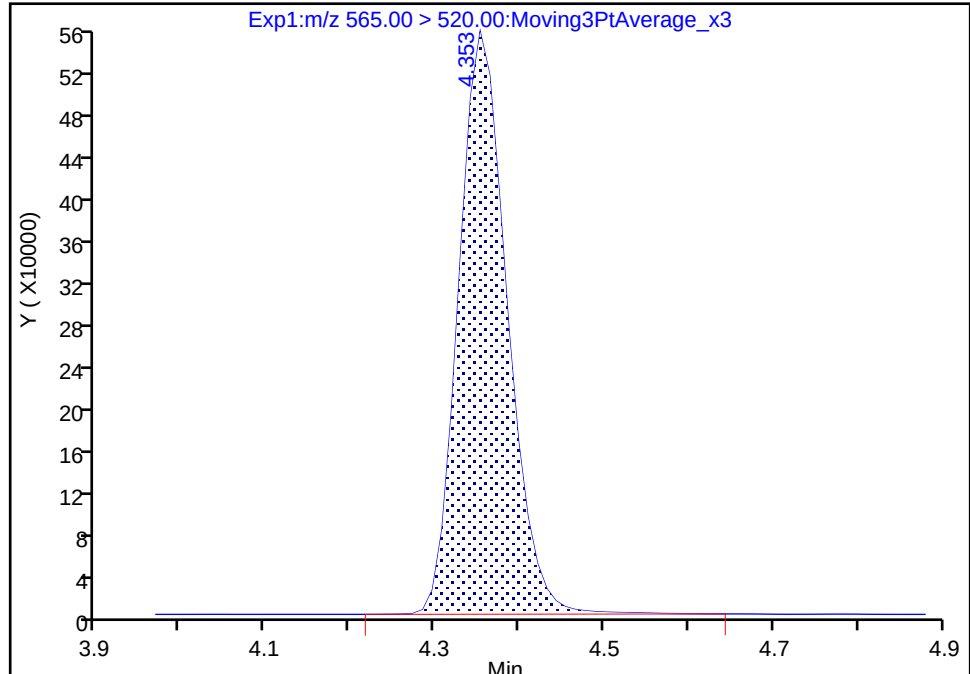
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

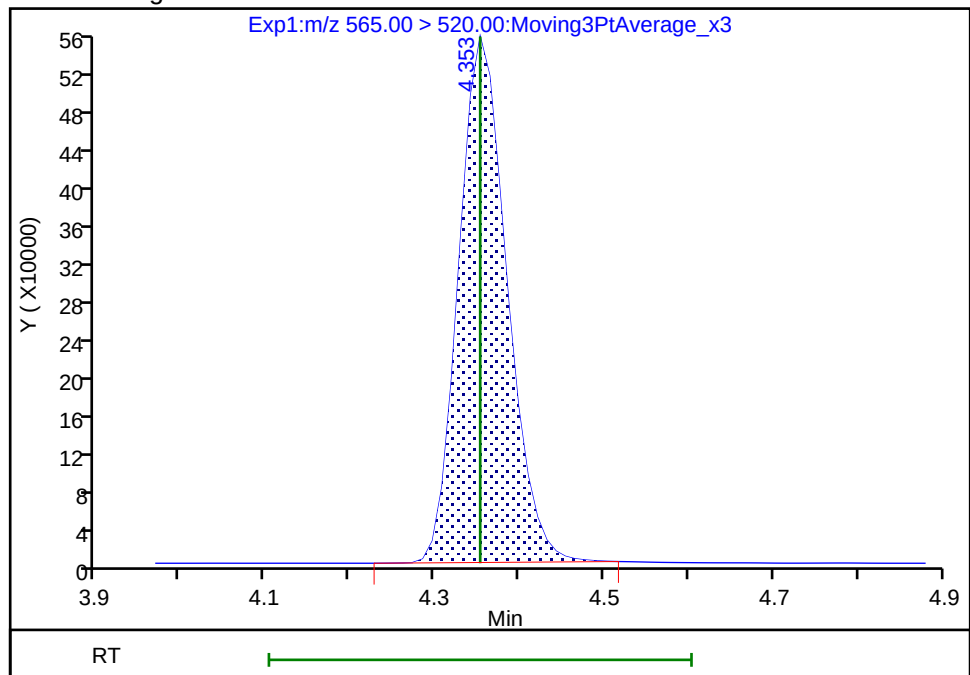
RT: 4.35
Area: 2200966
Amount: 1.263353
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2183949
Amount: 1.250019
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

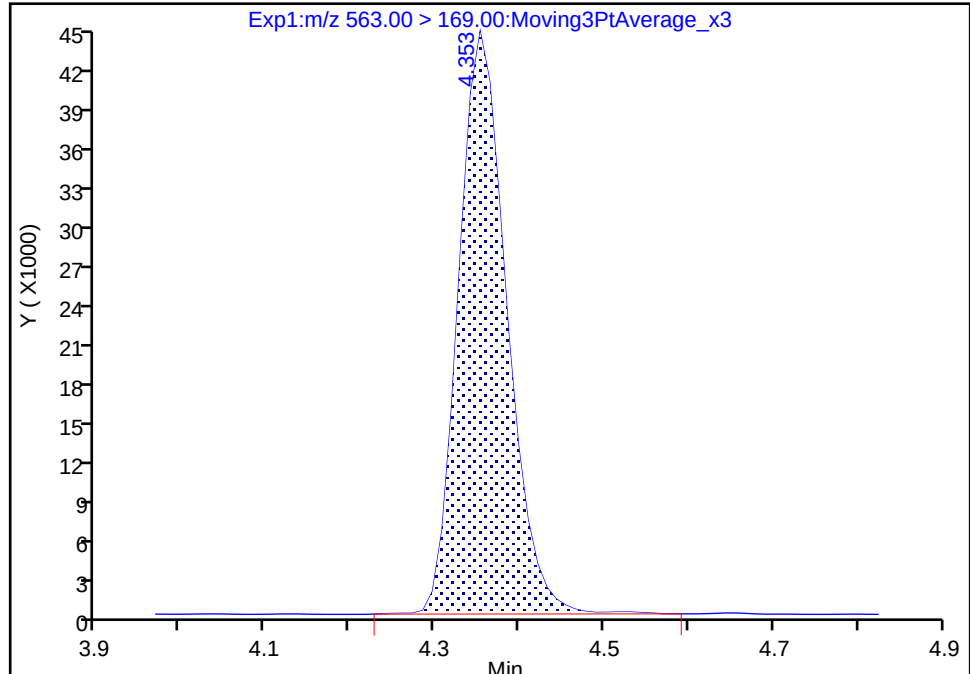
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

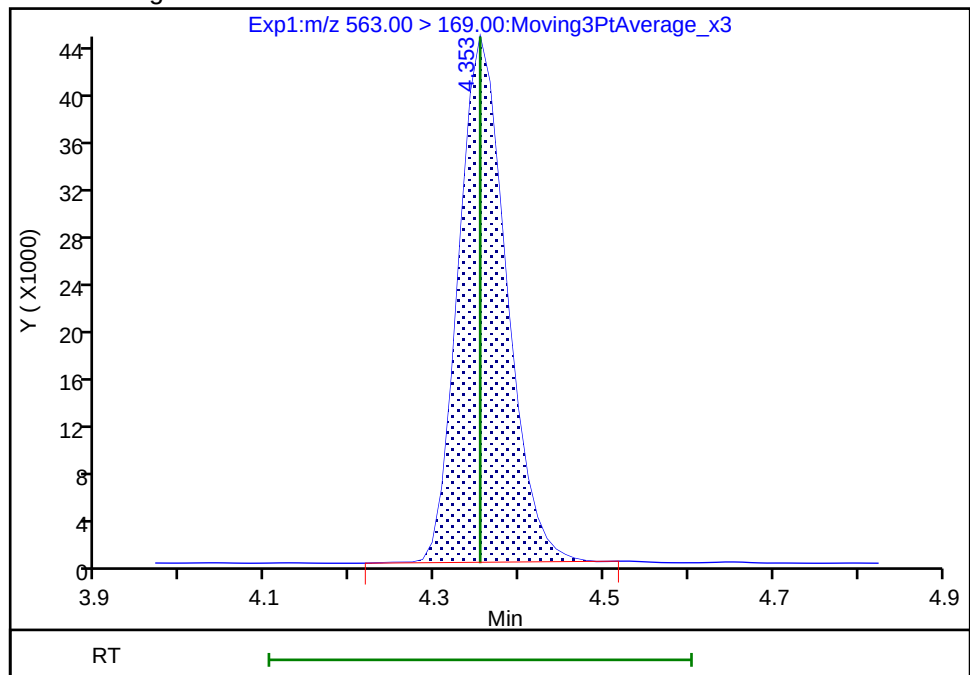
RT: 4.35
Area: 174513
Amount: 0.928435
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 173100
Amount: 0.971351
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

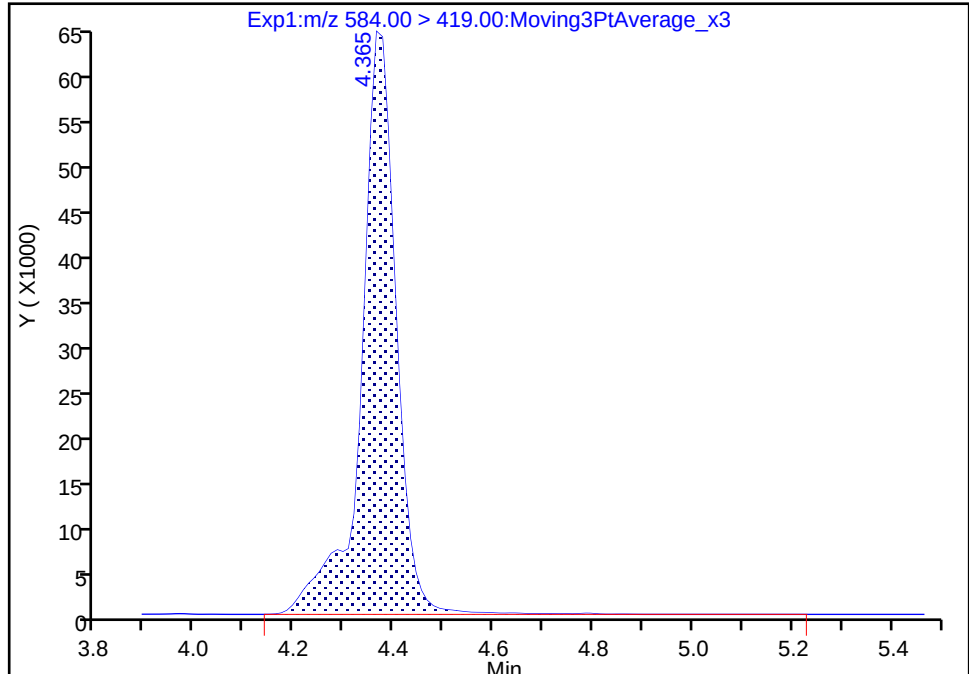
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

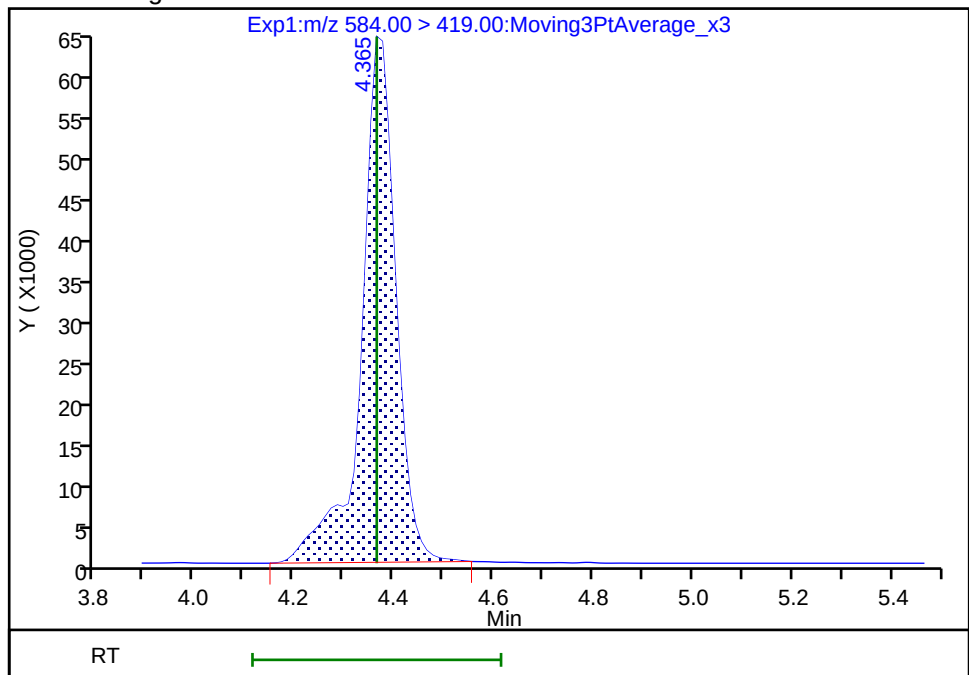
RT: 4.36
Area: 315423
Amount: 0.928970
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 311108
Amount: 0.943580
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

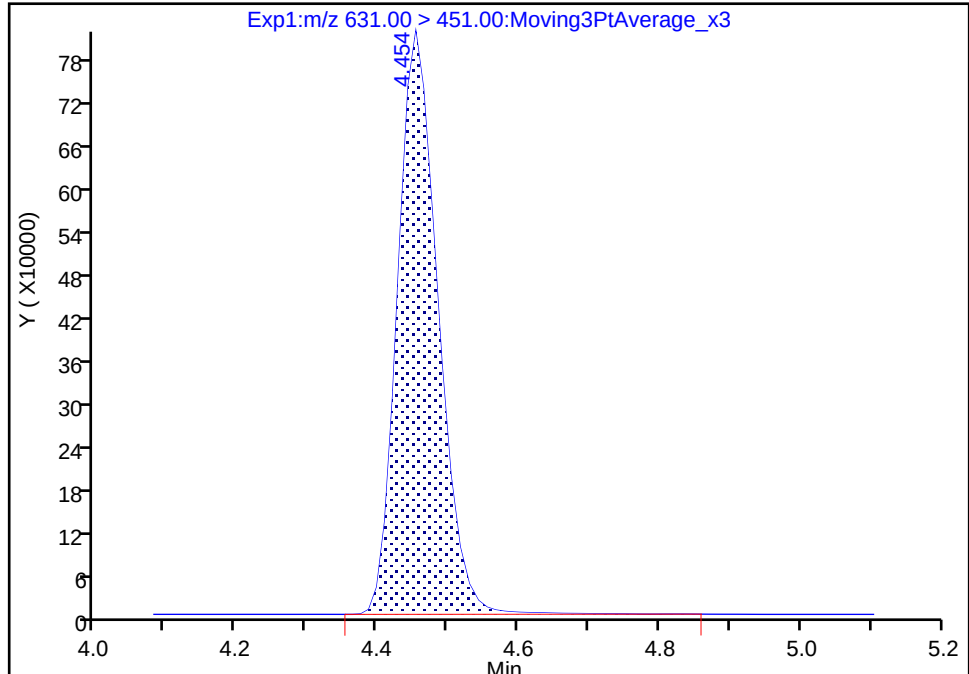
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

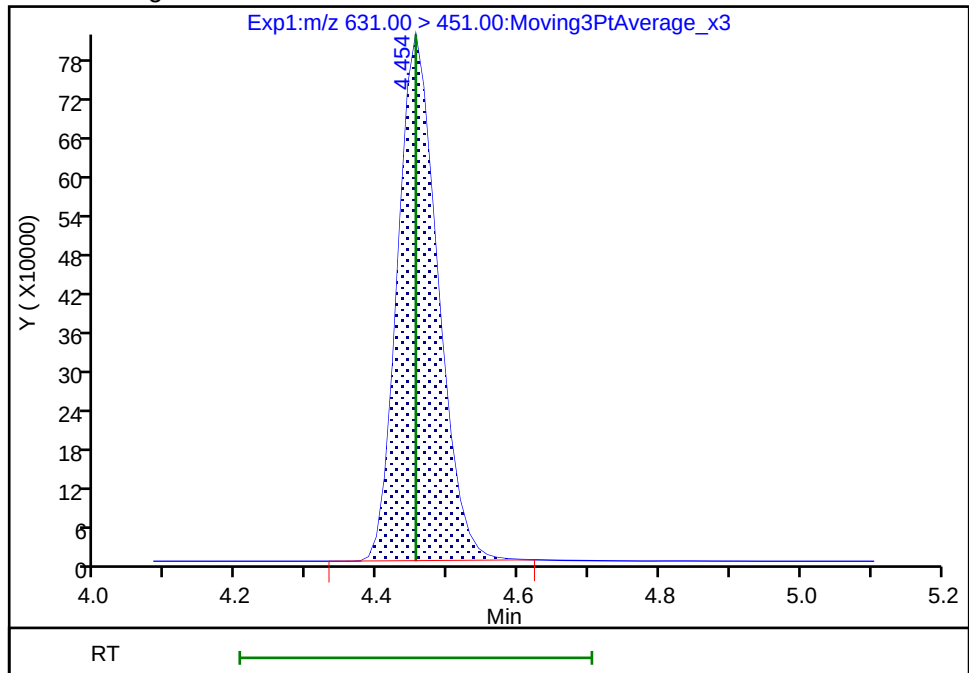
RT: 4.45
Area: 3251099
Amount: 0.891288
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 3224328
Amount: 0.925659
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

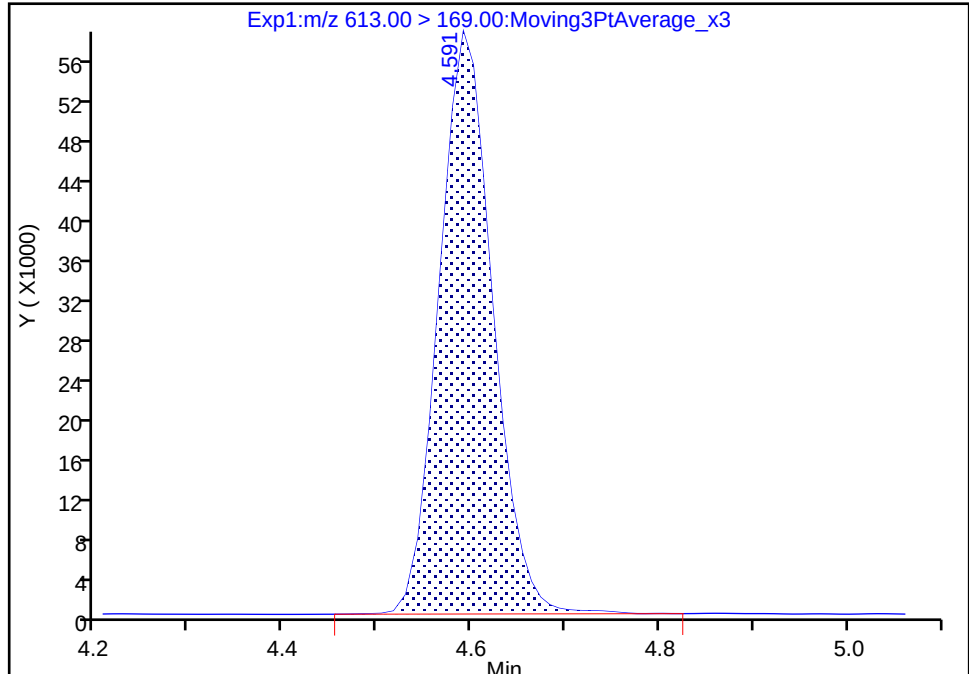
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

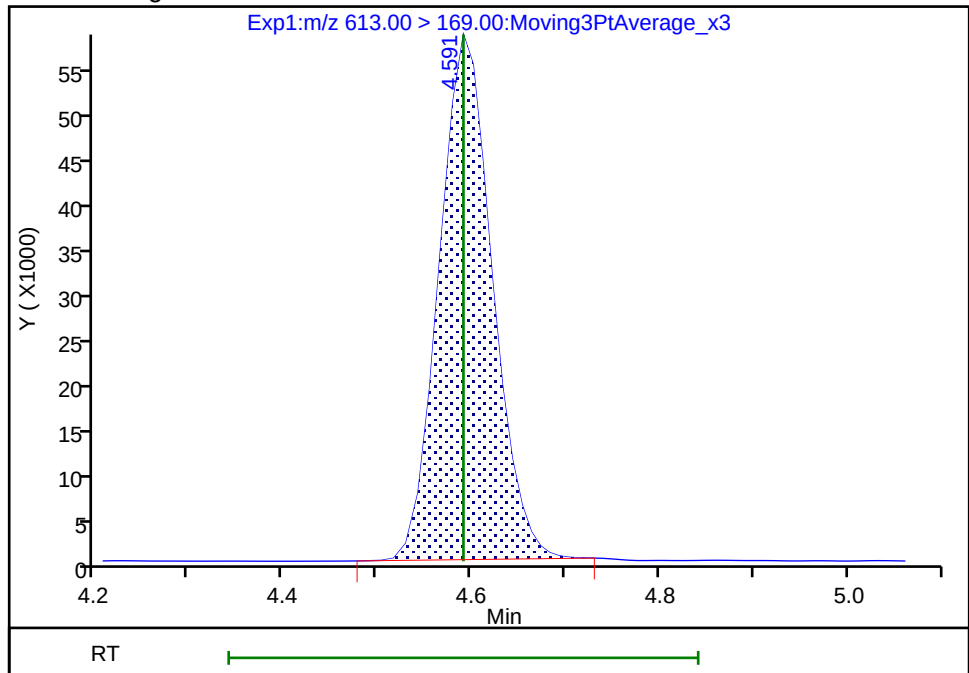
RT: 4.59
Area: 232486
Amount: 0.925204
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 229653
Amount: 0.974759
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

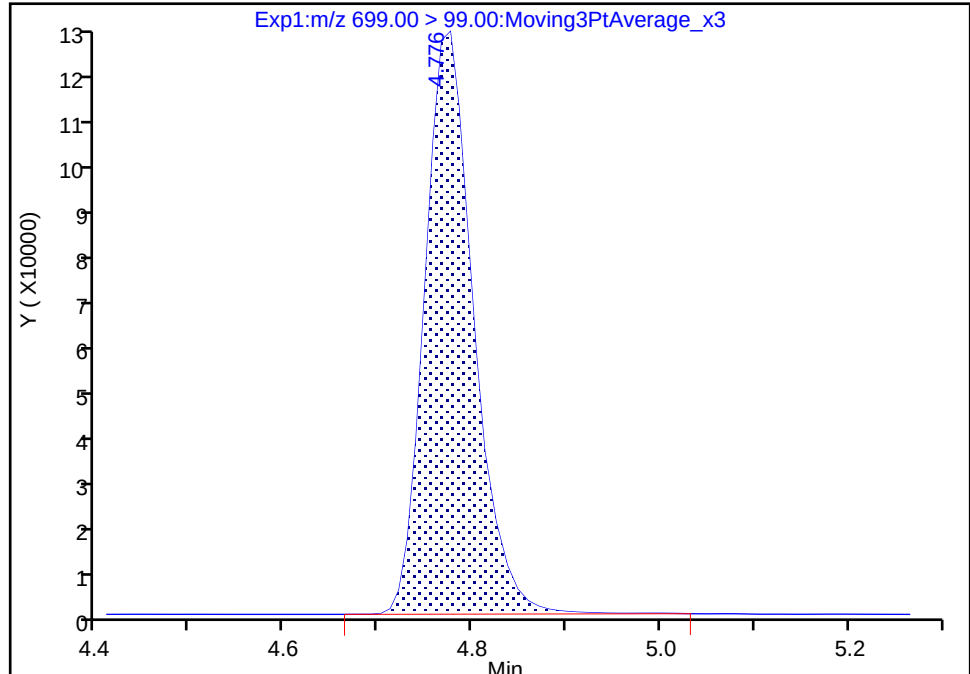
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

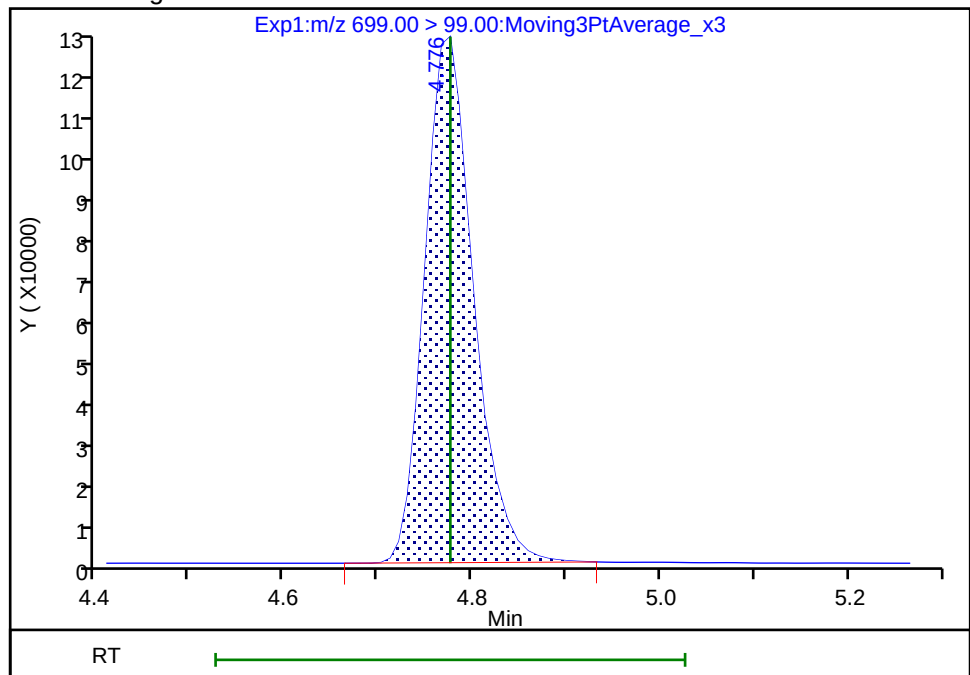
RT: 4.78
Area: 456526
Amount: 0.896225
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 454220
Amount: 0.922887
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

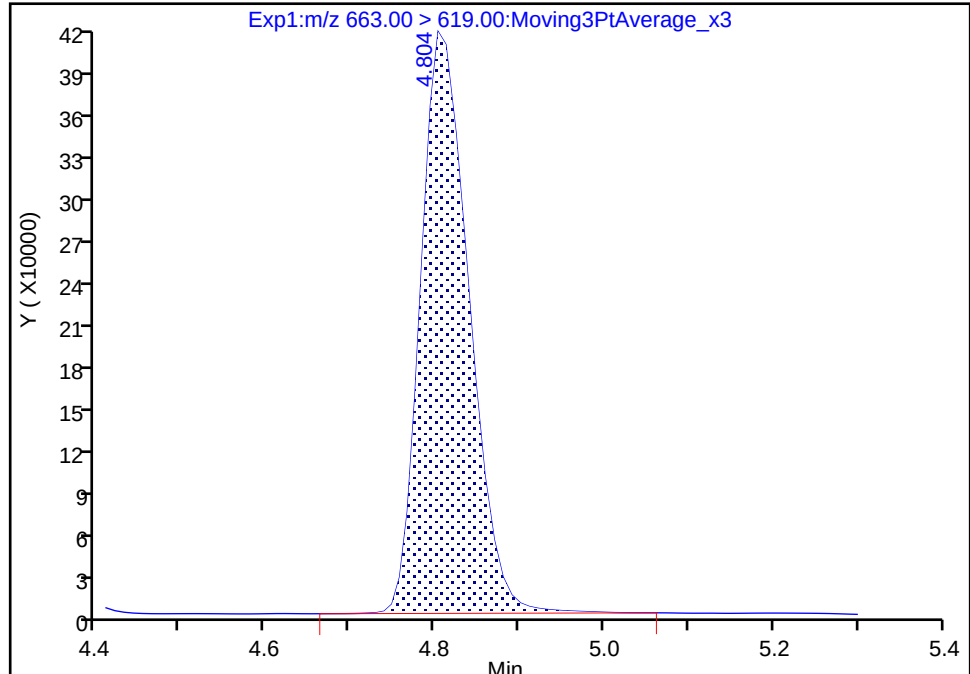
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

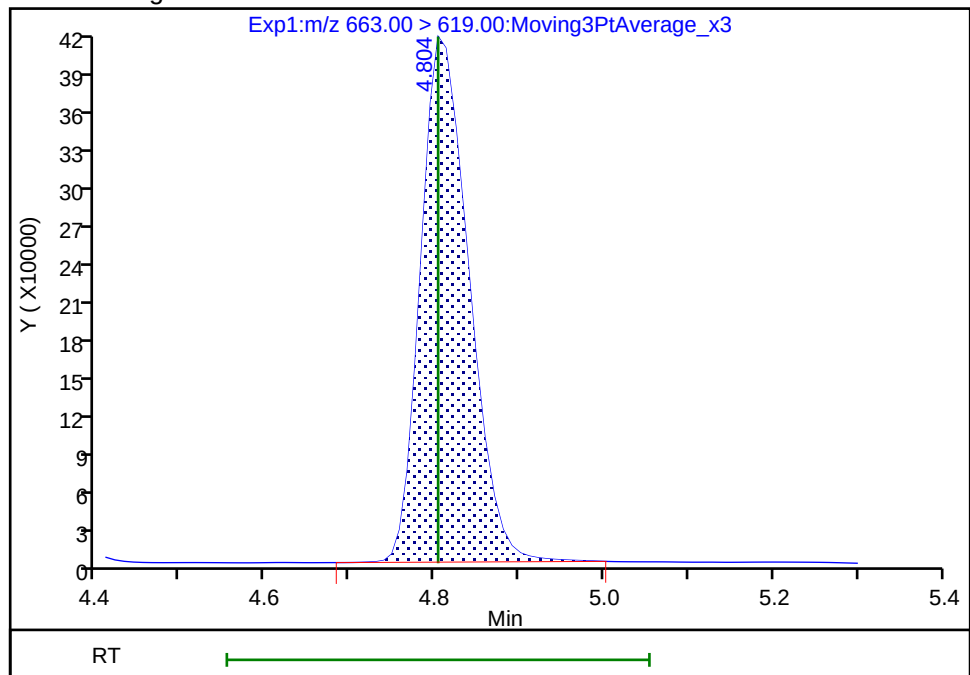
RT: 4.80
Area: 1636646
Amount: 0.895241
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 1631703
Amount: 0.931504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

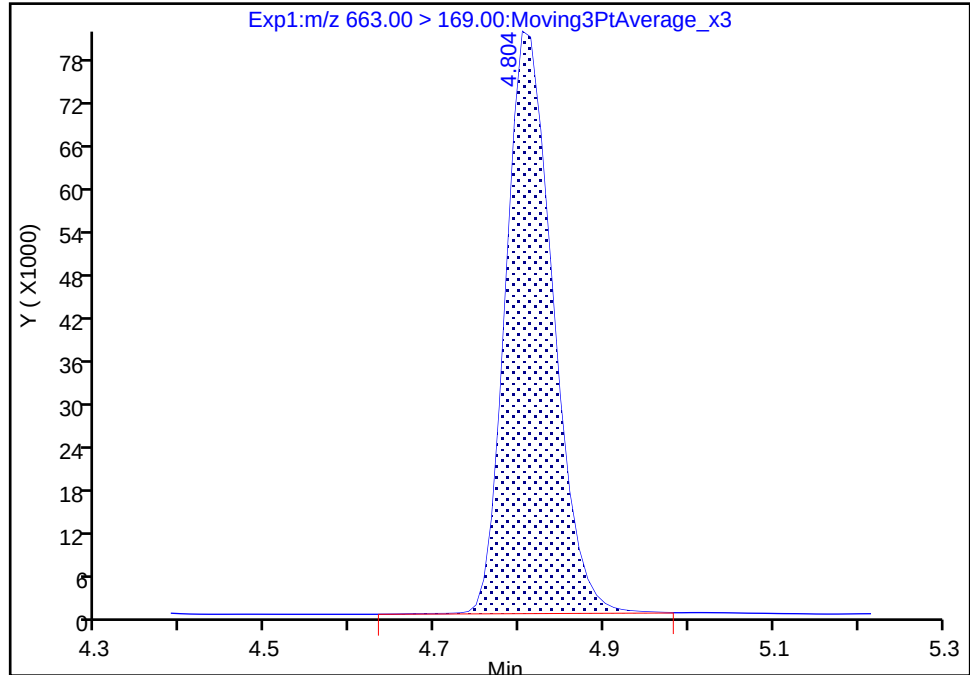
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

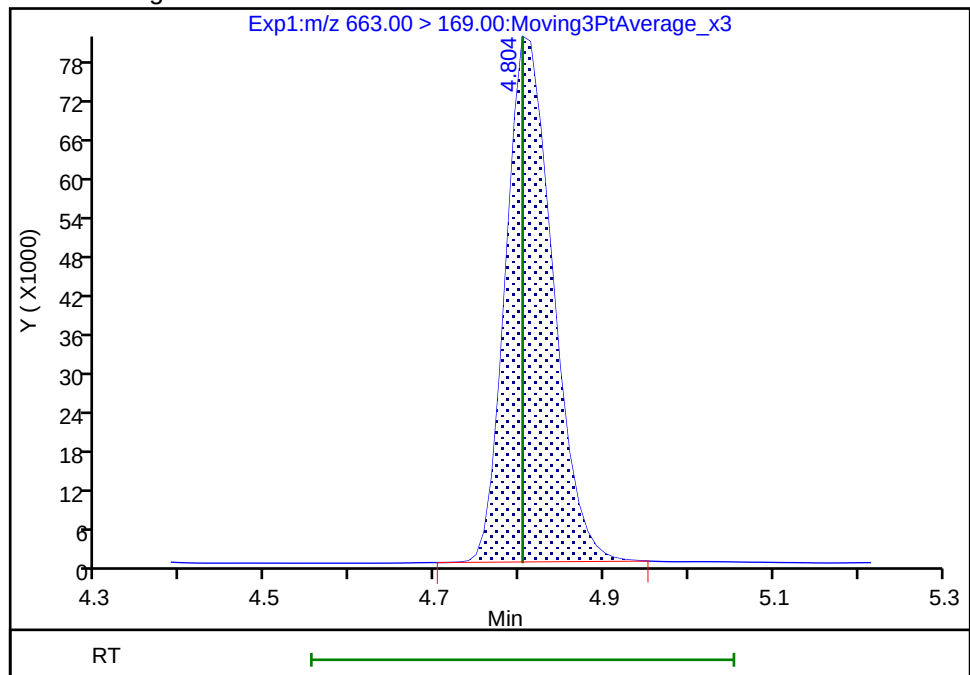
RT: 4.80
Area: 315364
Amount: 0.895241
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 313474
Amount: 0.931504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

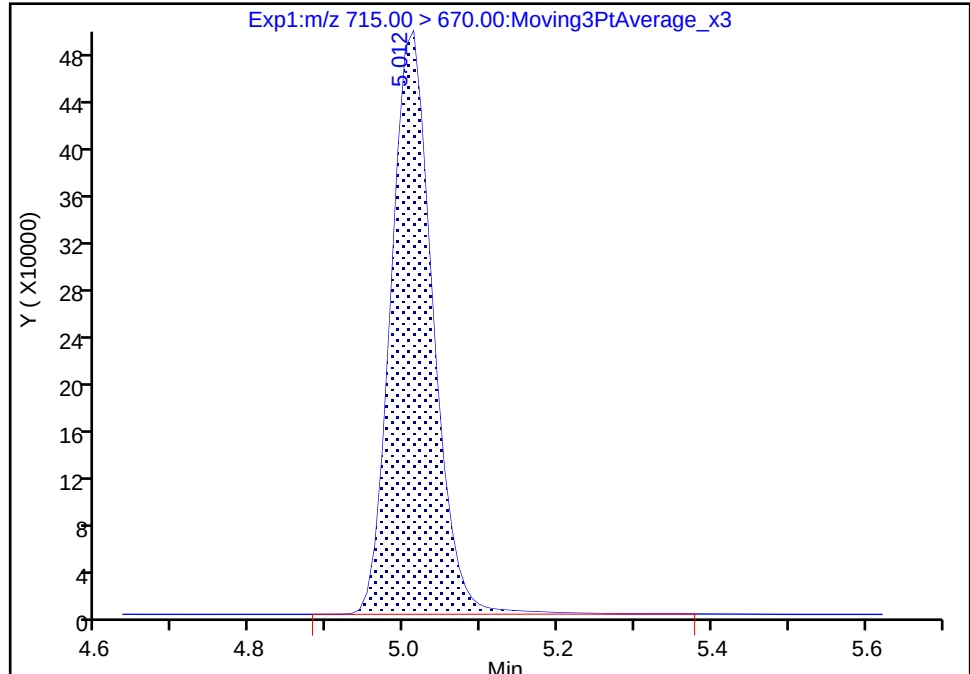
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

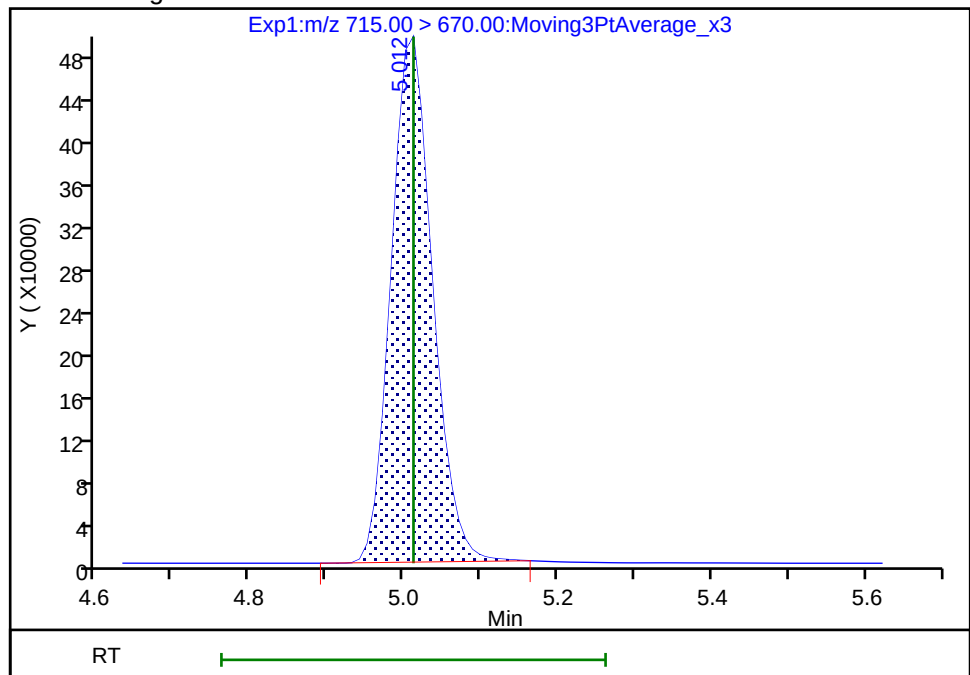
RT: 5.01
Area: 1869315
Amount: 1.228467
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1844360
Amount: 1.197970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

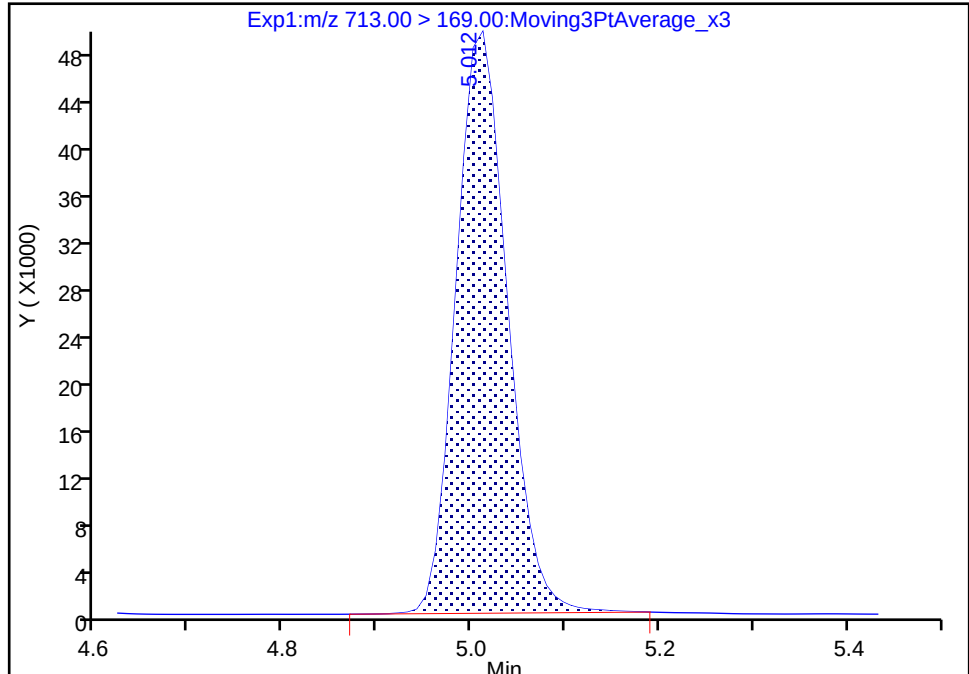
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

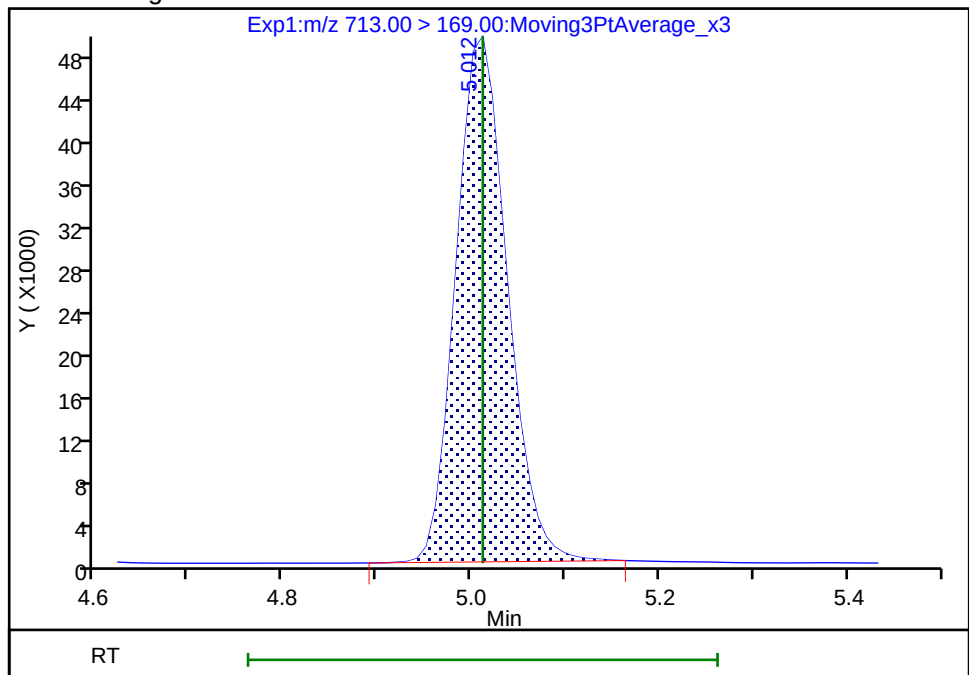
RT: 5.01
Area: 189104
Amount: 0.906114
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 188468
Amount: 0.933022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

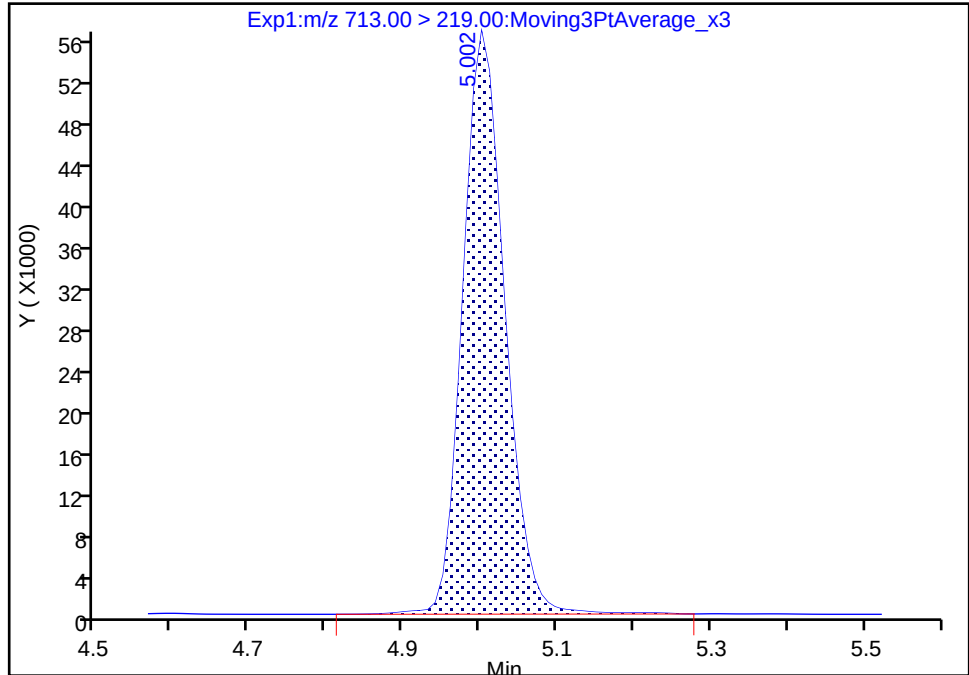
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

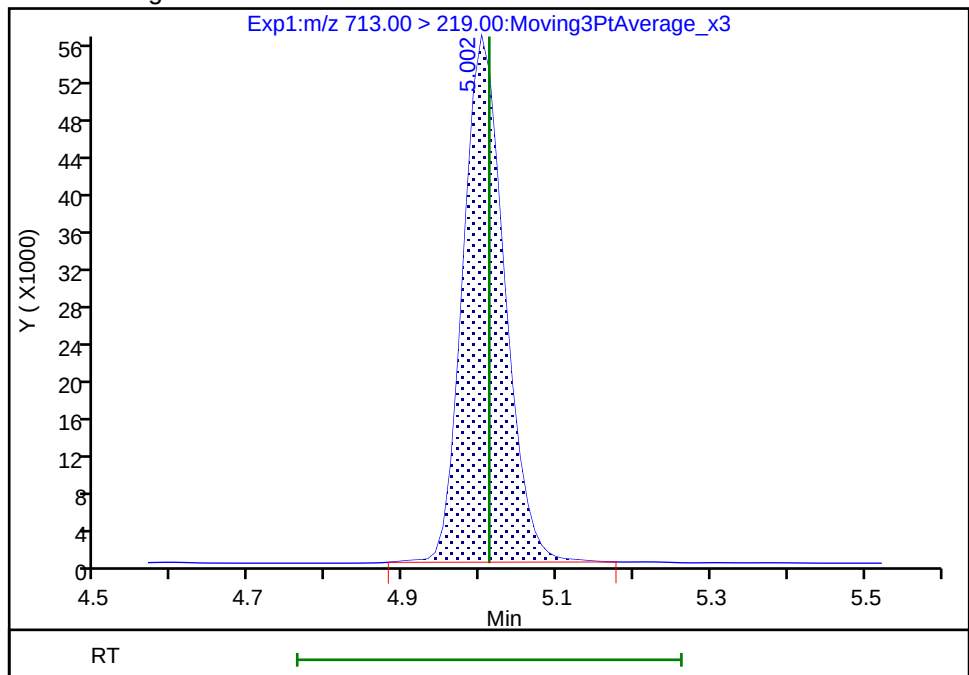
RT: 5.00
Area: 214481
Amount: 0.906114
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 212234
Amount: 0.933022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

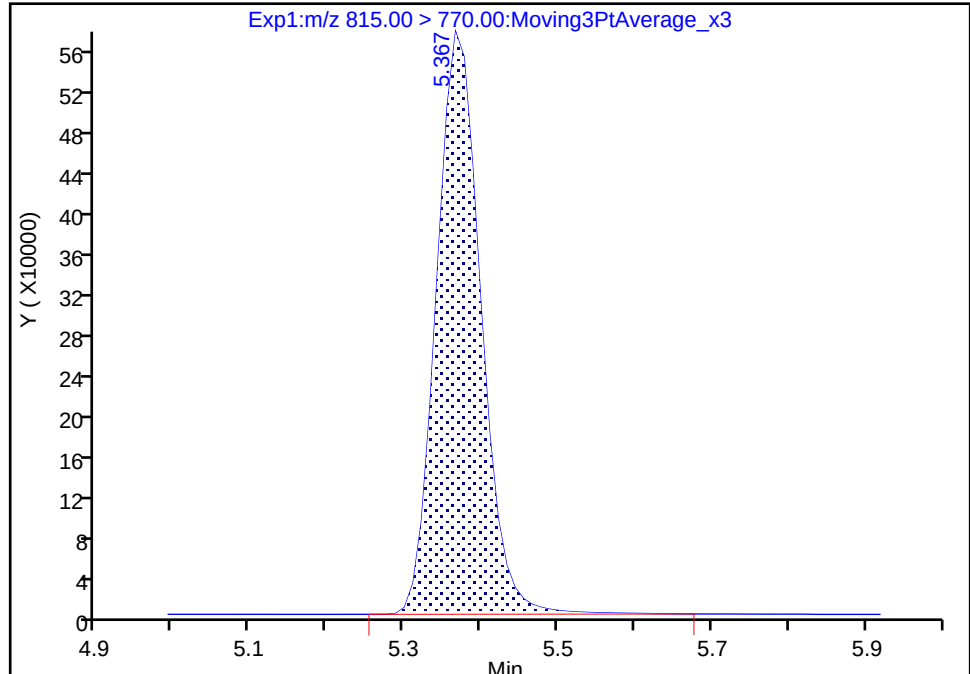
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

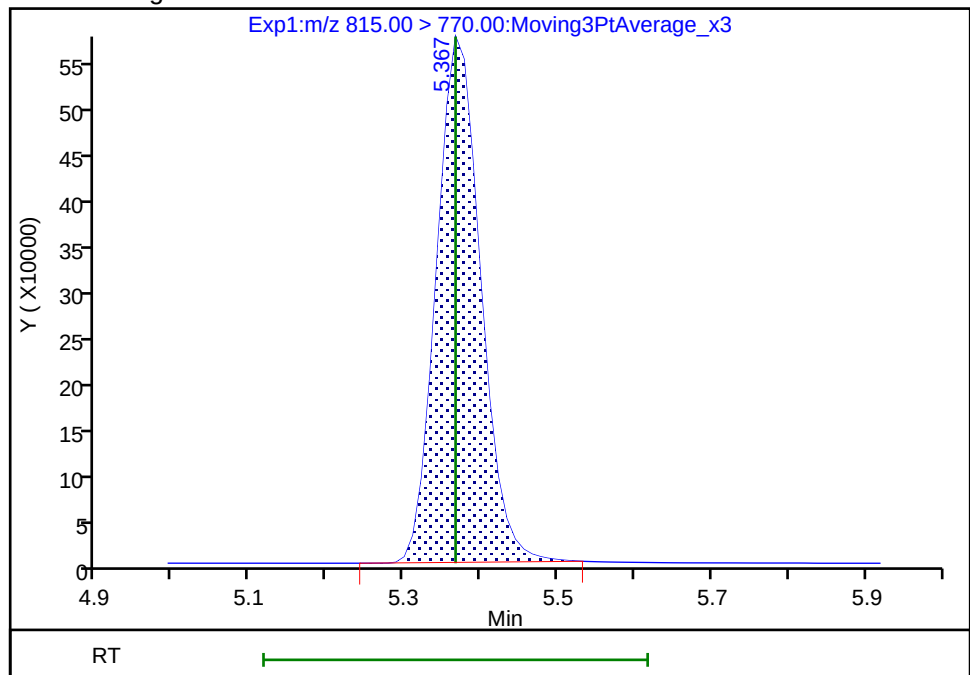
RT: 5.37
Area: 2303023
Amount: 1.224939
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2280992
Amount: 1.198419
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

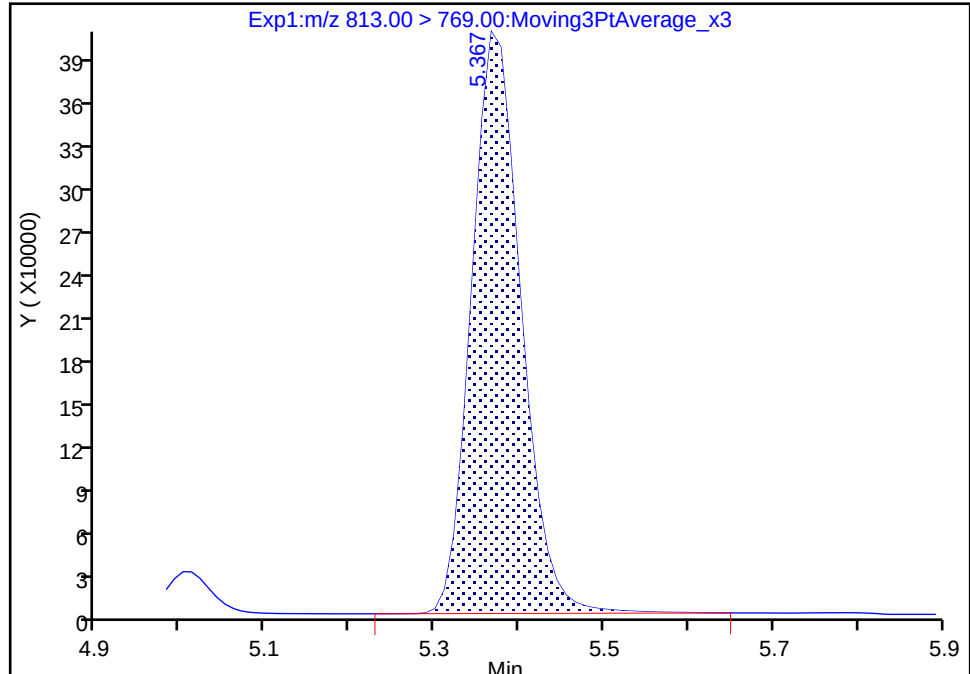
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

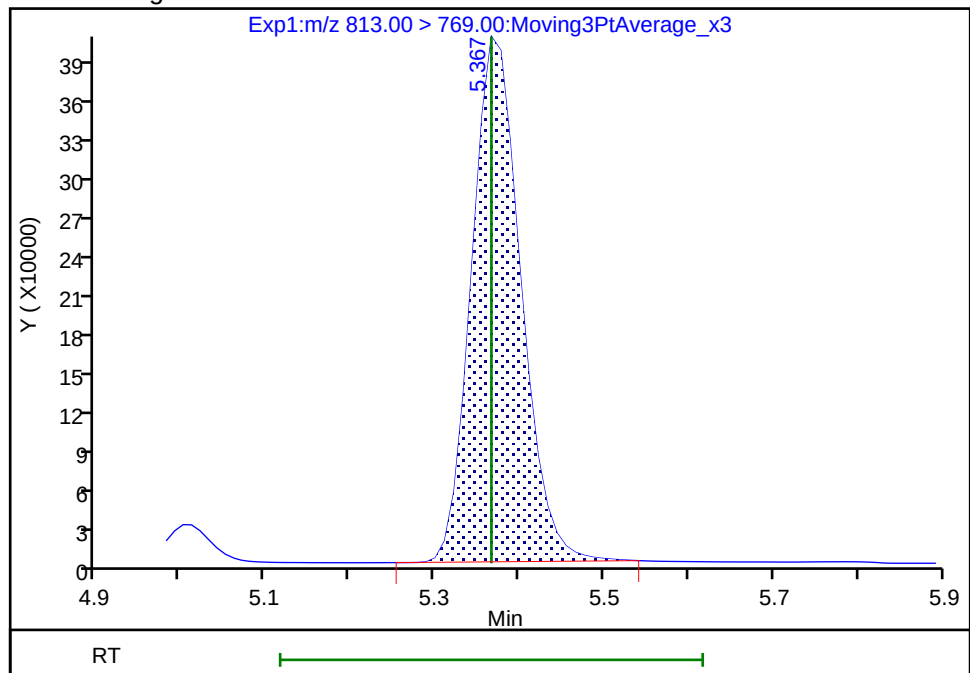
RT: 5.37
Area: 1646621
Amount: 0.957003
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 1633724
Amount: 0.956588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

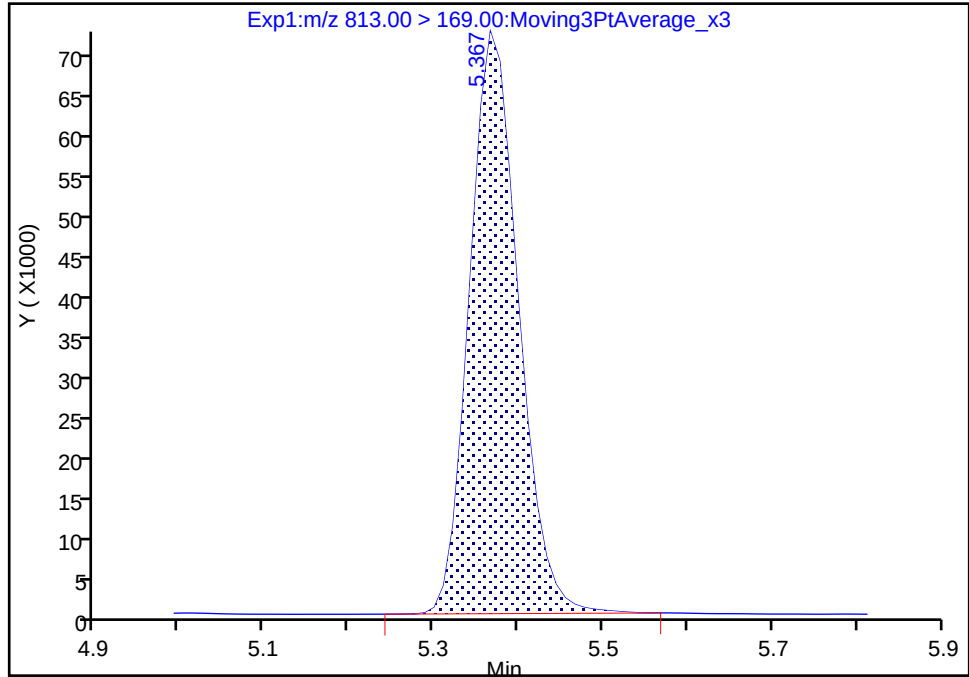
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

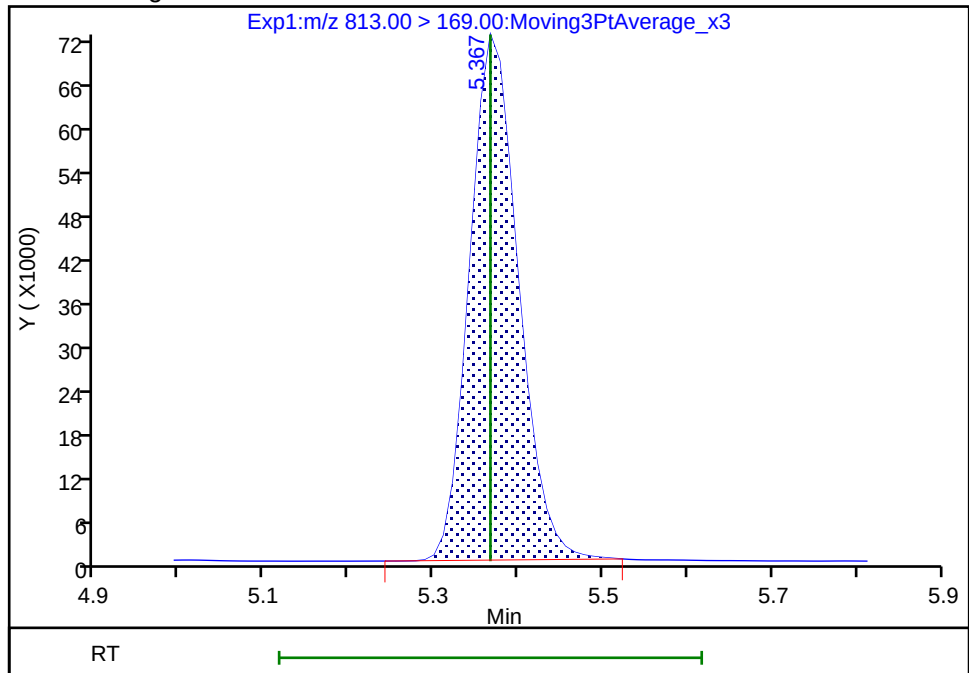
RT: 5.37
Area: 290873
Amount: 0.957003
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 289352
Amount: 0.956588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

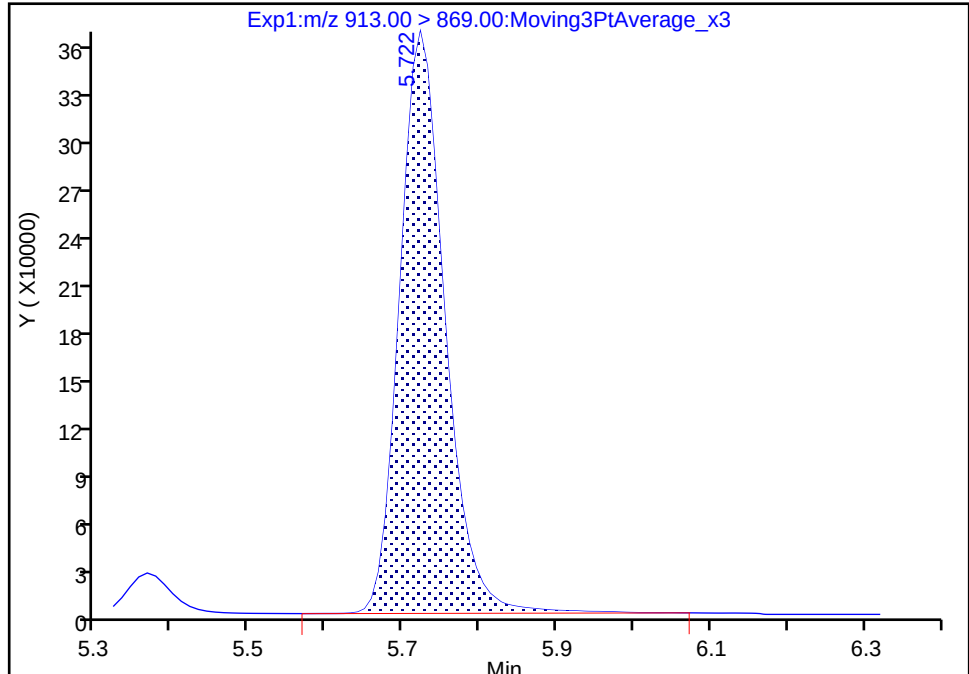
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

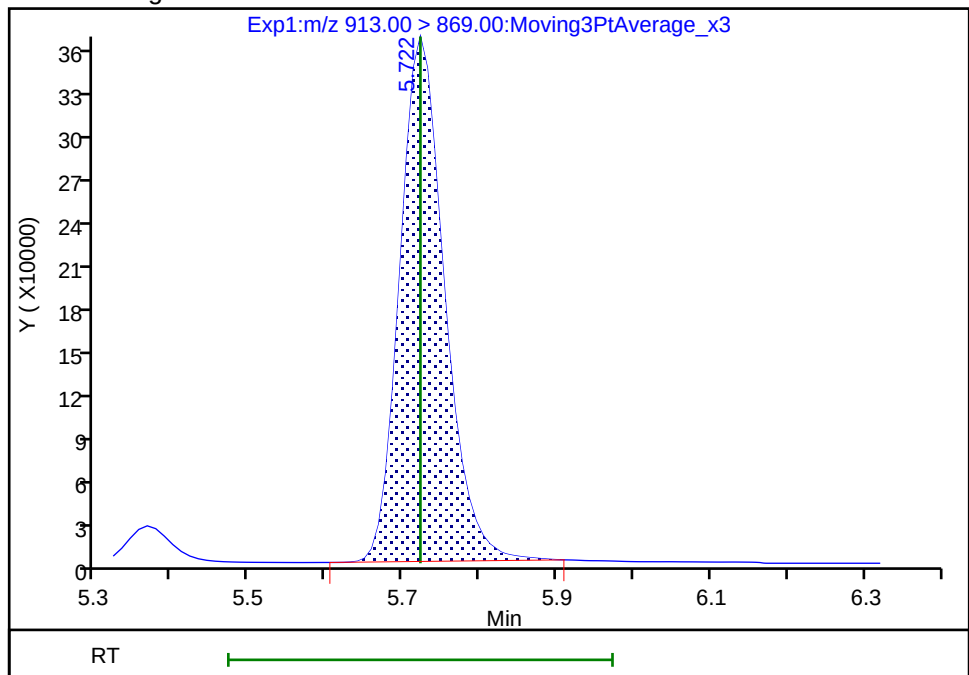
RT: 5.72
Area: 1494015
Amount: 0.963448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 1473641
Amount: 0.980547
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

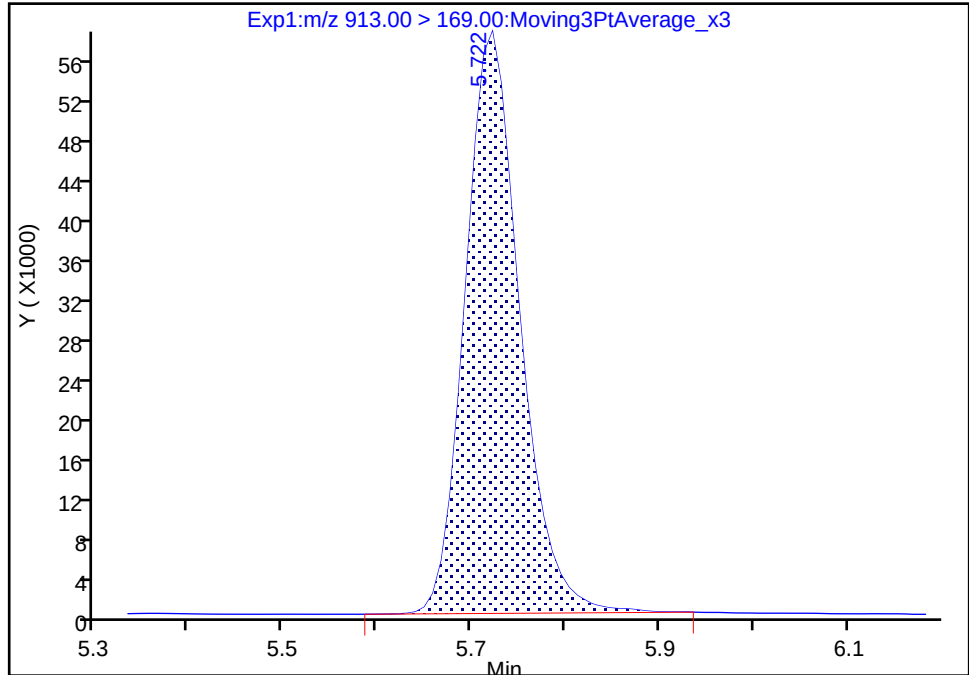
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

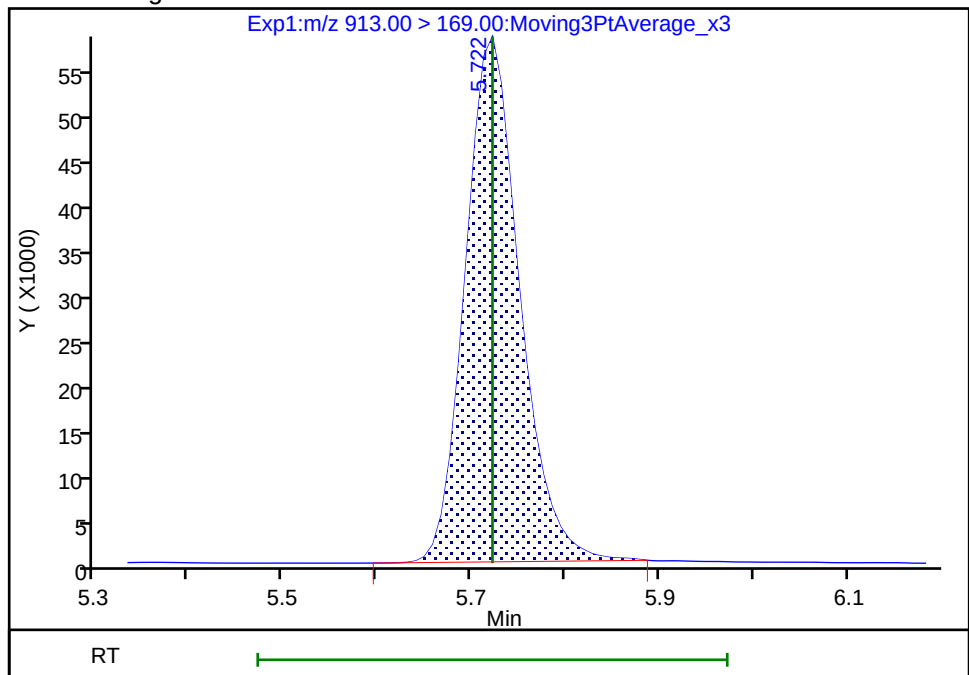
RT: 5.72
Area: 237553
Amount: 0.963448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 236187
Amount: 0.980547
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Nov-2022 15:02:36 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:50 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:19:10

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	2.076	2.076	0.0	0.602	2679202	1.26		101	15212	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	5105461	2.31		92.4	460	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2026955	1.25		100	4109	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.387	2.387	0.0	1.000	4126130	2.33		93.4	109	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2026741	1.15		99.2	320899	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4292437	2.15	Target=2.14	97.4	4481	M
298.90 > 99.00	2.400	2.400	0.0	1.000	2025175		2.12(1.07-3.21)	97.4	1425	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	1079231	2.29		98.0	4533	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	178646	1.15		98.5	205	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2164012	1.28		102	5801	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.004	4547952	2.41	Target=13.44	96.4	805	M
313.00 > 119.00	2.725	2.725	0.0	1.000	312872		14.54(6.72-20.15)	96.4	433	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.738	2.737	0.001	0.883	3901605	2.33	Target=2.98	99.2	5520	
349.00 > 99.00	2.738	2.737	0.001	0.883	1271099		3.07(1.49-4.47)	99.2	1901	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	387831	1.30		104	1771	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	756781	2.31		92.4	3649	
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.899	1485775	1.16		98.1	3442	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	0.996	3217665	2.27	Target=3.57	99.7	1650	M
399.00 > 99.00	3.088	3.088	0.0	0.996	889058		3.62(1.78-5.35)	99.7	805	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2271049	1.30		104	7276	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	4611900	2.33	Target=3.93	93.3	871	
363.00 > 169.00	3.099	3.099	0.0	1.000	1182521		3.90(1.96-5.89)	93.3	2126	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	10824421	2.24	Target=3.08	95.0	3767	M
377.00 > 85.00	3.132	3.132	0.0	0.832	3633058		2.98(1.54-4.62)	95.0	1956	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	257709	1.20		101	723	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	1097897	2.38		101	2807	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	2744265	2.24	Target=5.16	94.0	1942	M
449.00 > 99.00	3.439	3.439	0.0	0.914	543093		5.05(2.58-7.74)	94.0	2249	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2522753	1.29		103	5188	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2367797	1.25			4001	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	5263268	2.44	Target=2.82	97.6	387	
413.00 > 169.00	3.448	3.448	0.0	1.000	1822258		2.89(1.41-4.23)	97.6	1577	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1049764	1.21		101	2525	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	2338057	2.19	Target=5.01	94.3	367	M
499.00 > 99.00	3.764	3.764	0.0	1.000	491265		4.76(2.50-7.51)	94.3	383	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.783	3.783	0.0	1.097	2401890	1.26		101	3709	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	4930997	2.47	Target=8.49	99.0	859	M
463.00 > 169.00	3.783	3.783	0.0	1.000	586103		8.41(4.25-12.74)	99.0	2411	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	5512960	2.25		96.5	3886	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.061	4.050	0.011	1.079	1871298	2.32	Target=2.60	96.7	2768	M
549.00 > 99.00	4.061	4.050	0.011	1.079	726837		2.57(1.30-3.90)	96.7	2286	M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2491665	1.28		103	4693	

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	4.081	4.081	0.0	1.000	4948756	2.29	Target=10.03	91.6	1883	
513.00 > 169.00	4.081	4.081	0.0	1.000	502506		9.85(5.02-15.05)	91.6	891	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	321188	1.22		102	963	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	1014644	2.34		97.7	2533	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	4094524	2.46		98.3	2556	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1993351	1.25		100	2401	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	514239	1.30		104	416	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.228	0.010	1.002	873622	2.46		98.3	924	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	1496790	2.35	Target=2.58	97.5	2027	M
599.00 > 99.00	4.331	4.331	0.0	1.151	562866		2.66(1.29-3.86)	97.5	1295	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	0.997	4311823	2.37	Target=10.10	94.7	1327	M
563.00 > 169.00	4.353	4.353	0.0	0.997	431935		9.98(5.05-15.15)	94.7	1347	
D 30 13C2 PFUnA										
565.00 > 520.00	4.365	4.353	0.012	1.266	2259671	1.27		102	3817	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.365	0.011	1.003	848987	2.39		95.5	1131	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	496655	1.28		102	1013	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	8644779	2.29		97.1	2779	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.591	0.010	1.000	4520955	2.28	Target=7.41	91.0	287	M
613.00 > 169.00	4.601	4.591	0.010	1.000	628962		7.19(3.70-11.11)	91.0	2150	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.591	0.010	1.335	2344331	1.29		104	3770	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	585886	2.25		93.3	1907	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	629893	2.34	Target=0.51	96.6	3834	M
699.00 > 99.00	4.776	4.776	0.0	1.269	1217795		0.52(0.25-0.76)	96.6	1849	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.812	4.804	0.008	1.046	4574880	2.41	Target=5.40	96.3	292	M
663.00 > 169.00	4.812	4.804	0.008	1.046	841148		5.44(2.70-8.10)	96.3	1577	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	519386	2.35	Target=0.90	94.1	1498	M
713.00 > 219.00	5.012	5.012	0.0	1.000	610374		0.85(0.45-1.35)	94.1	1973	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	2014799	1.29		103	2640	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.366	5.367	-0.001	1.557	2500657	1.29		103	2634	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.377	5.367	0.010	1.002	4609177	2.49	Target=5.85	99.5	360	M
813.00 > 169.00	5.377	5.367	0.010	1.002	767191		6.01(2.93-8.78)	99.5	1778	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	3885994	2.36	Target=6.30	94.3	307	M
913.00 > 169.00	5.722	5.722	0.0	1.066	634754		6.12(3.15-9.46)	94.3	883	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\20221118-53396.b\PA221118ICAL09.d

Injection Date: 18-Nov-2022 15:02:36

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

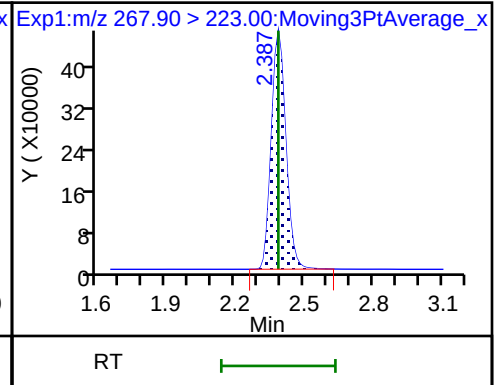
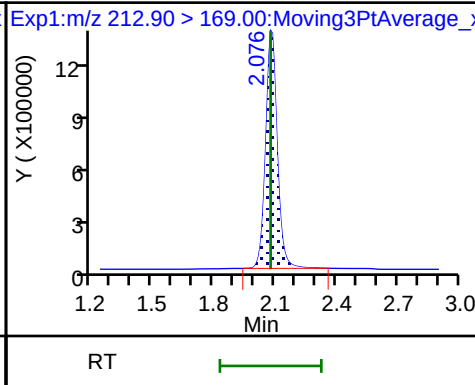
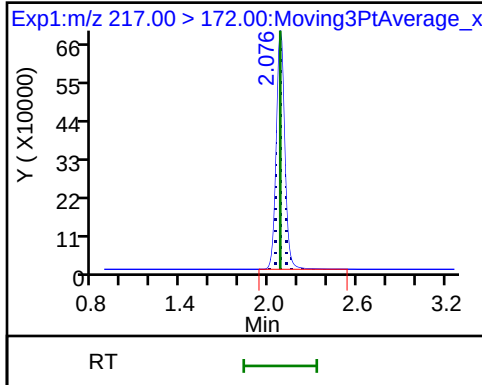
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

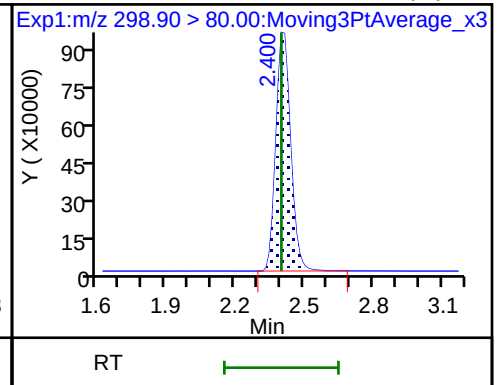
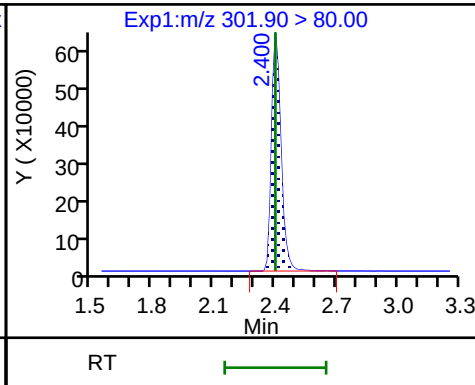
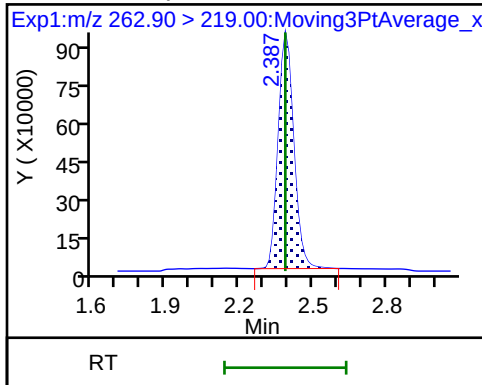
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

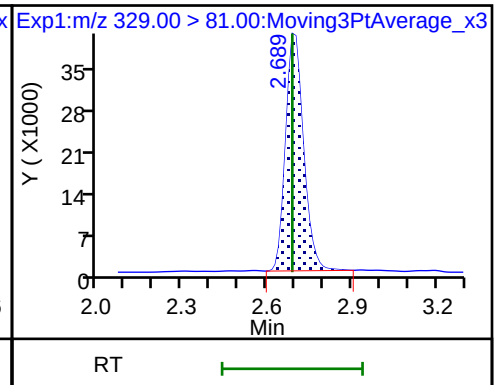
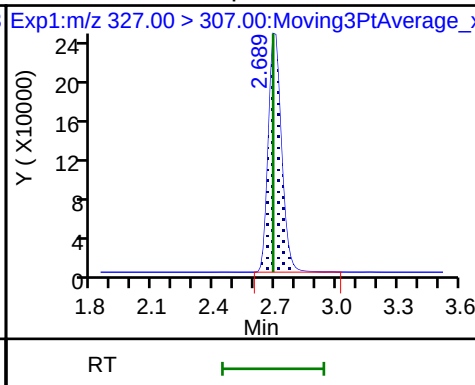
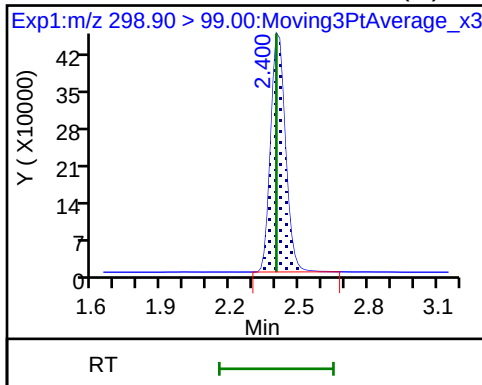
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

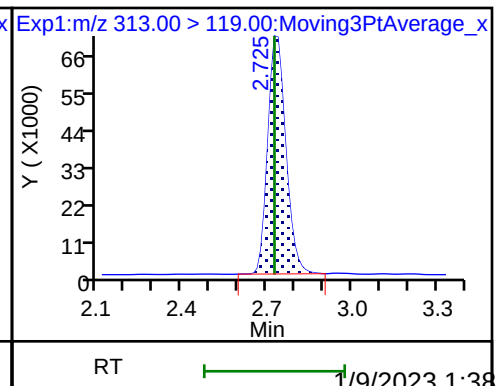
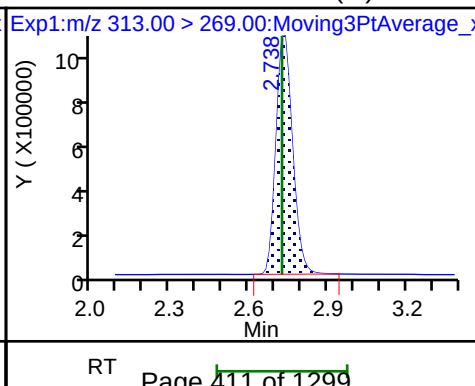
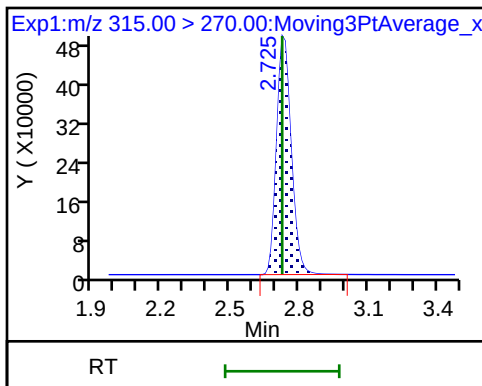
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

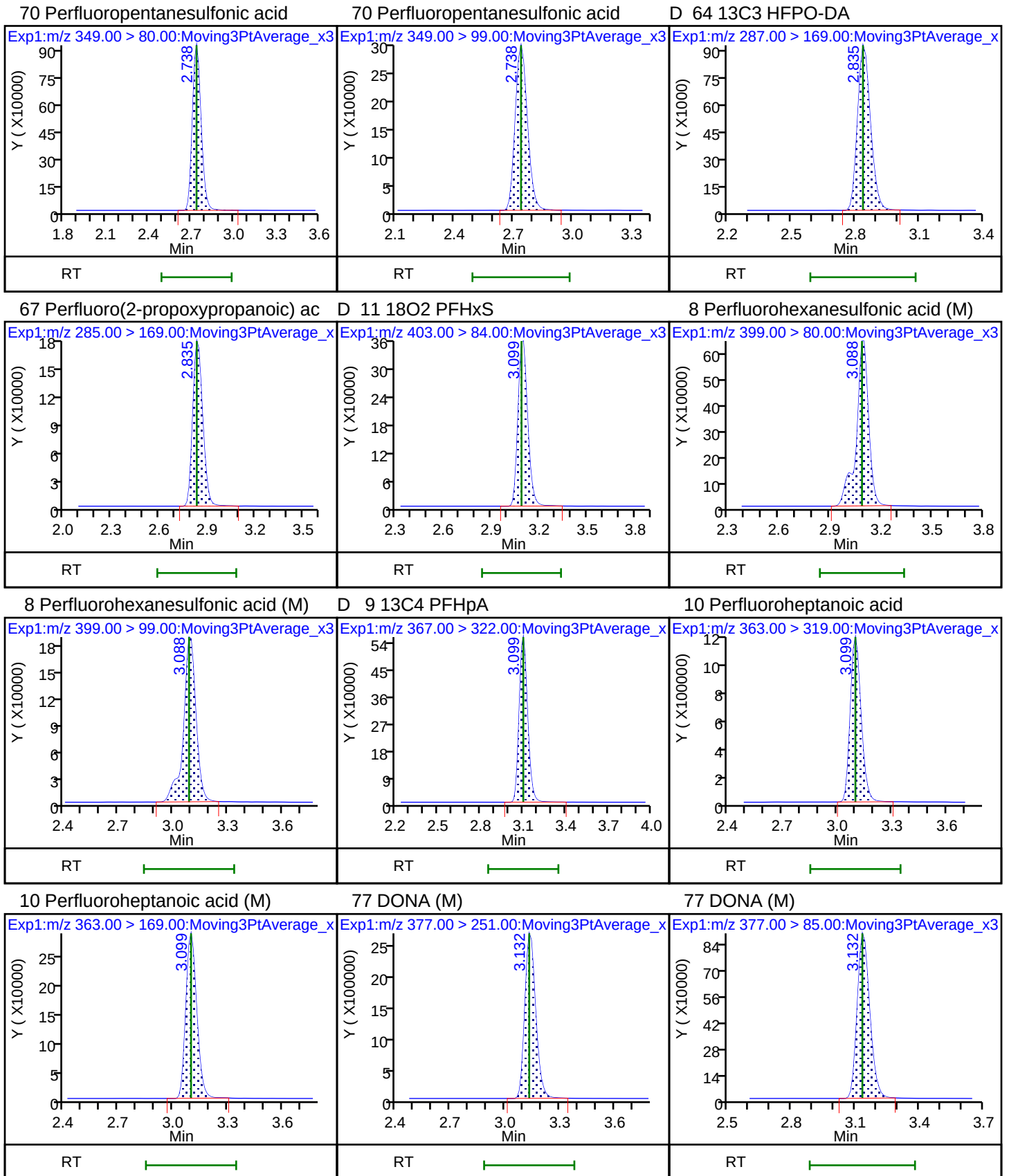


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

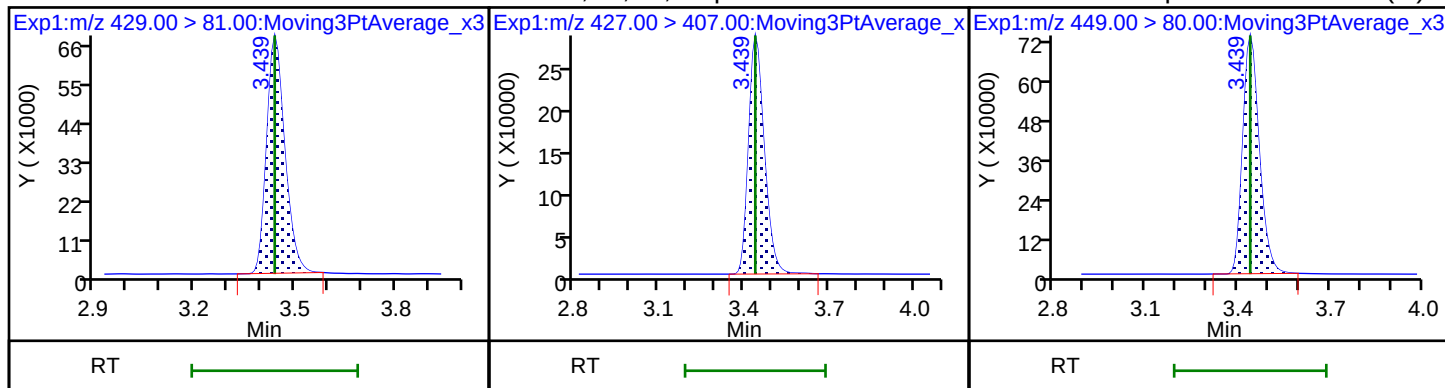




D 12 M2-6:2 FTS

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

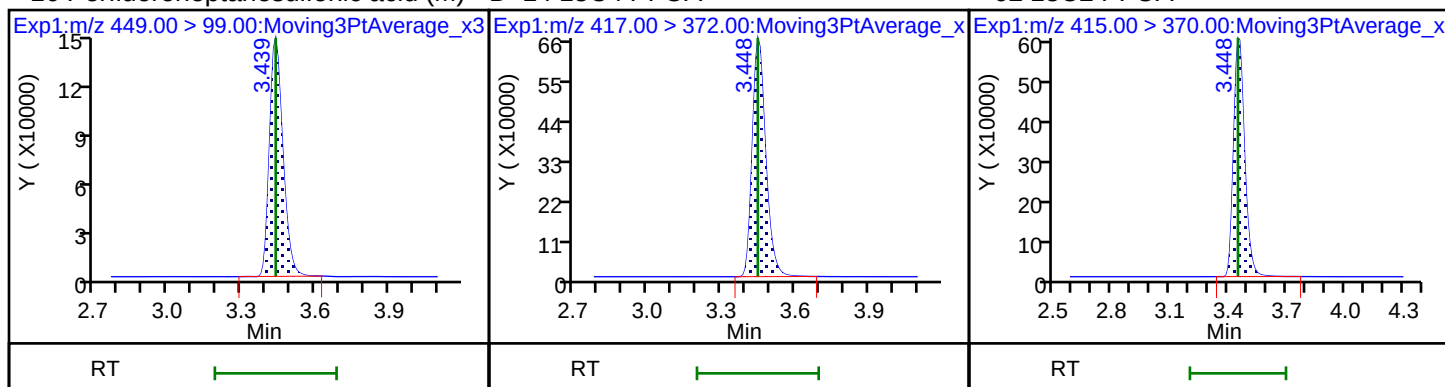
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

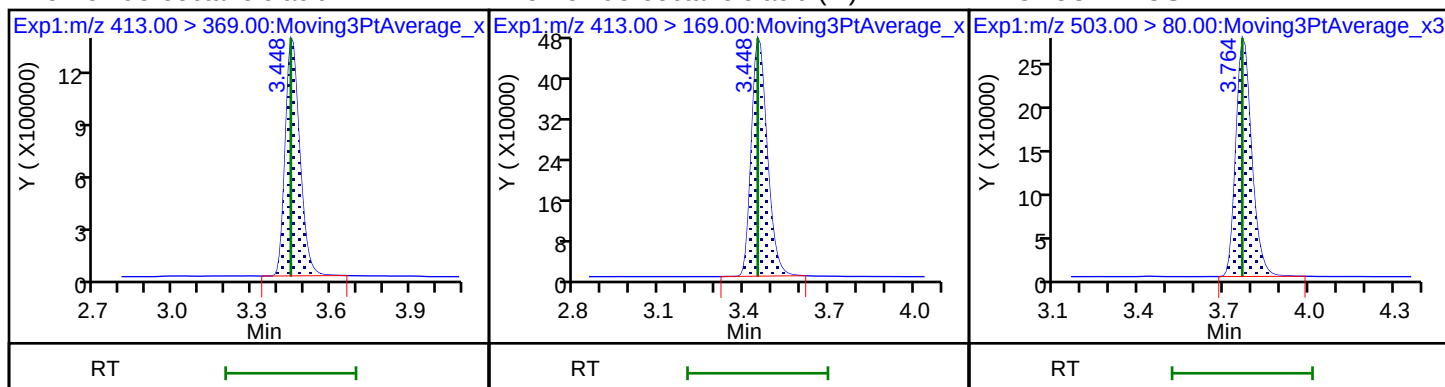
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

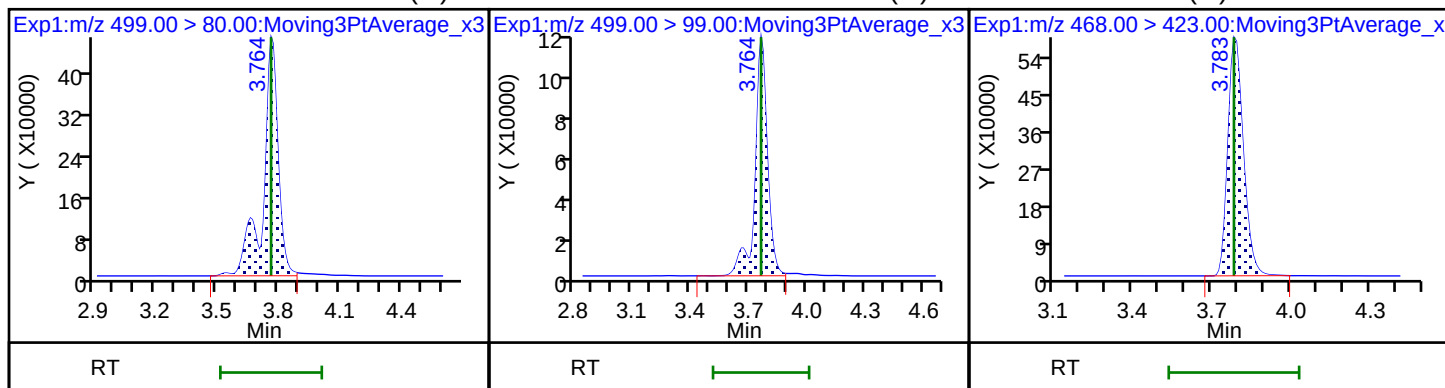
D 18 13C4 PFOS

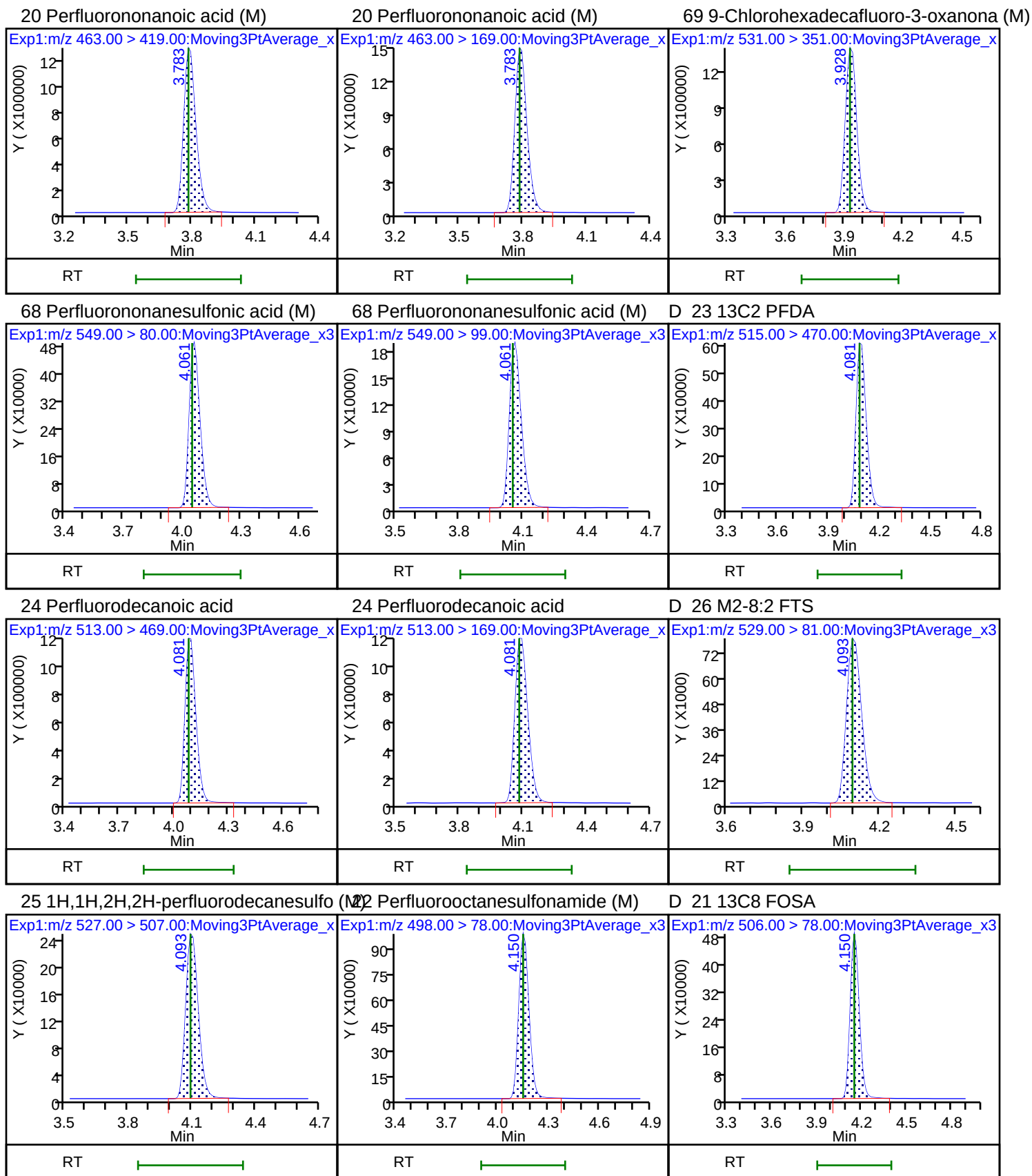


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

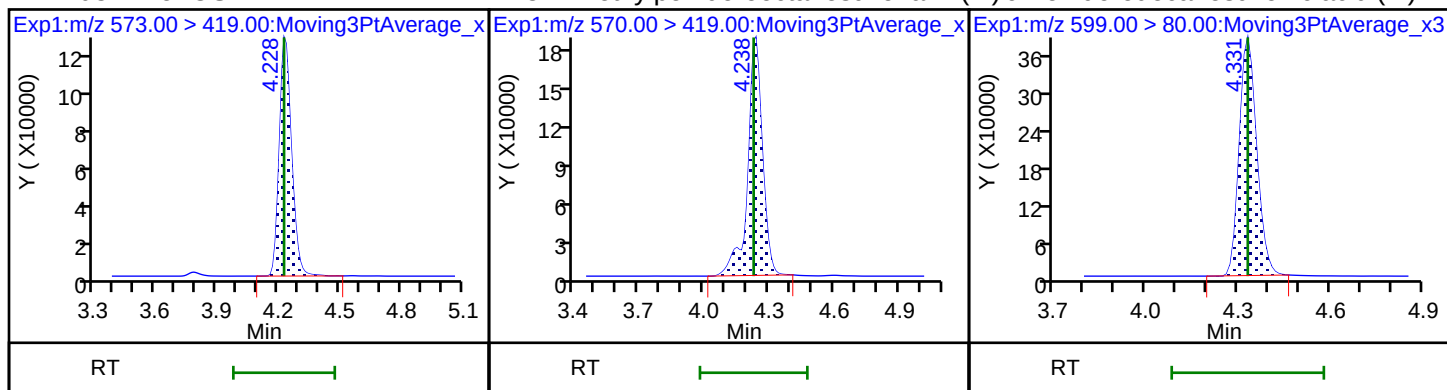
D 19 13C5 PFNA (M)





D 27 d3-NMeFOSAA

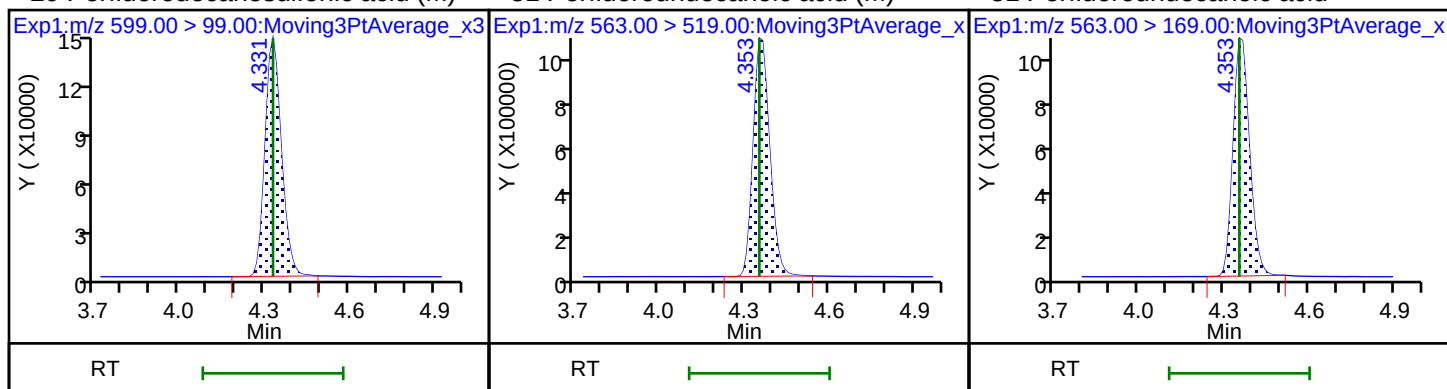
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

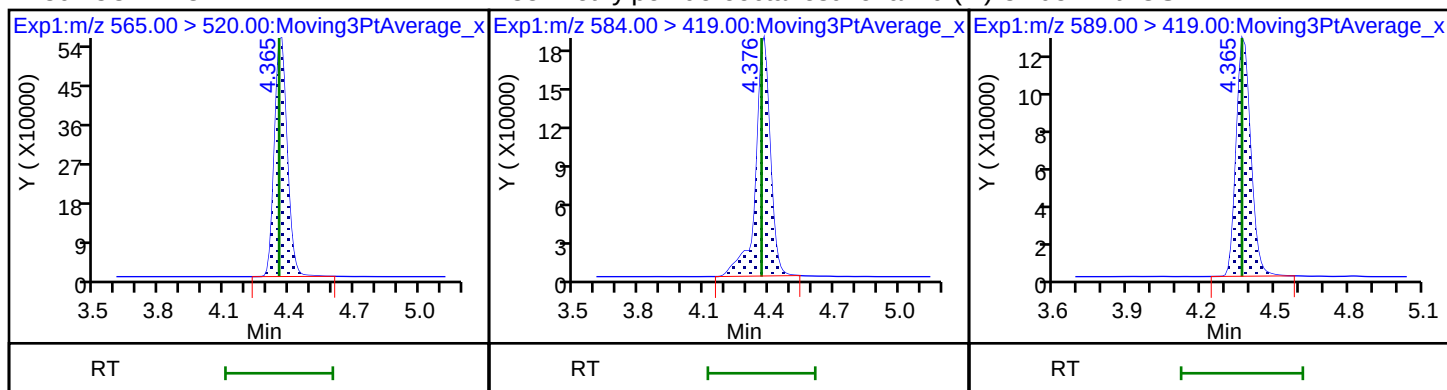
31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid



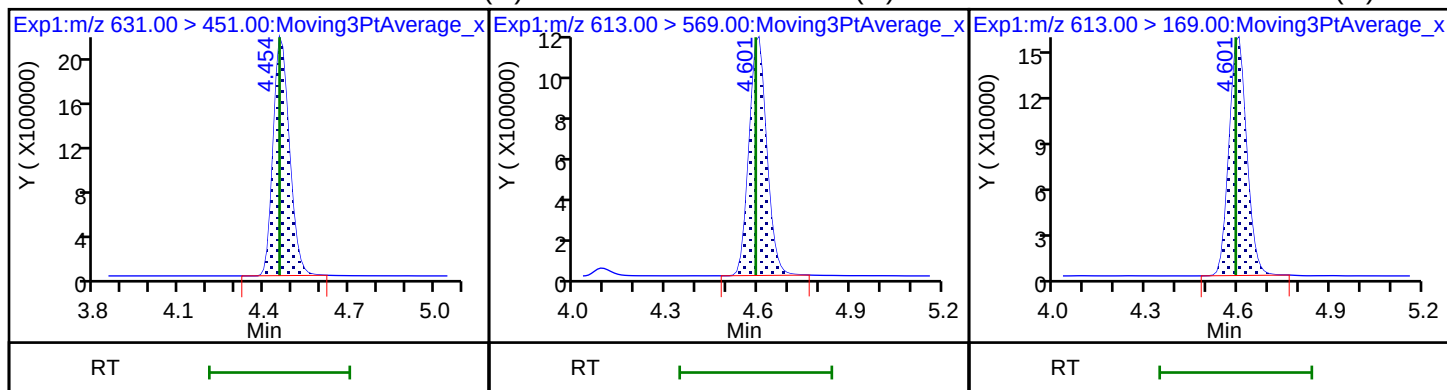
D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



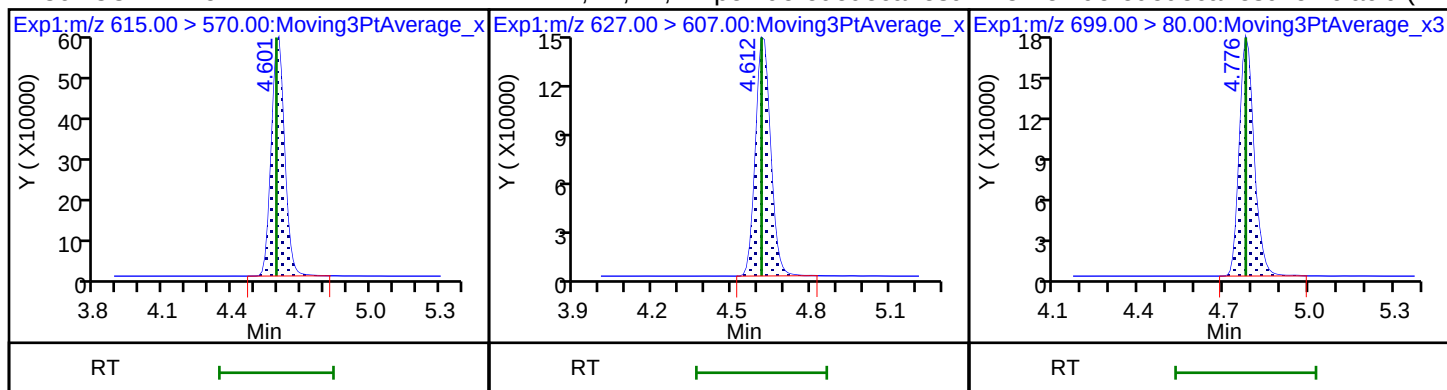
66 11-Chloroeicosafluoro-3-oxaundec (M) 37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



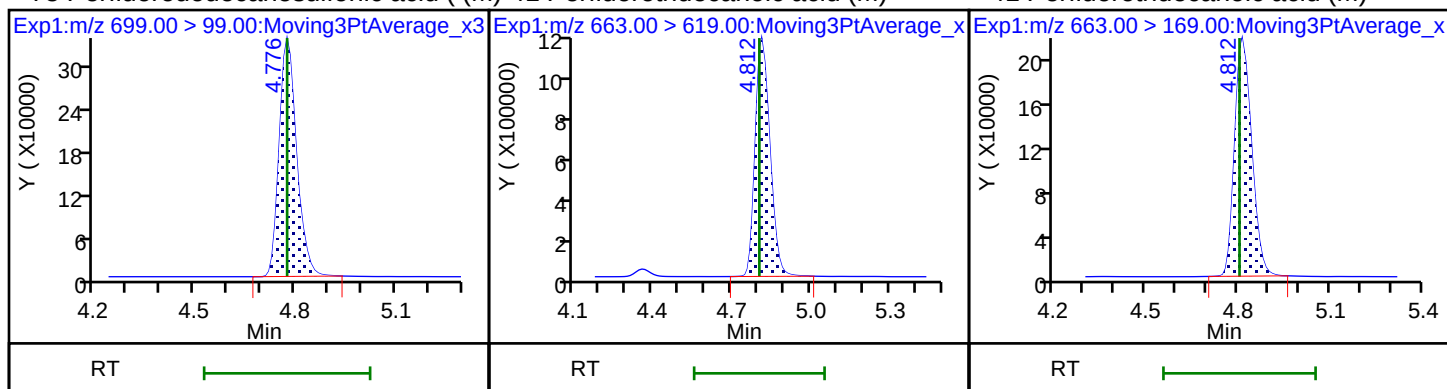
D 36 13C2 PFDaA

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



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

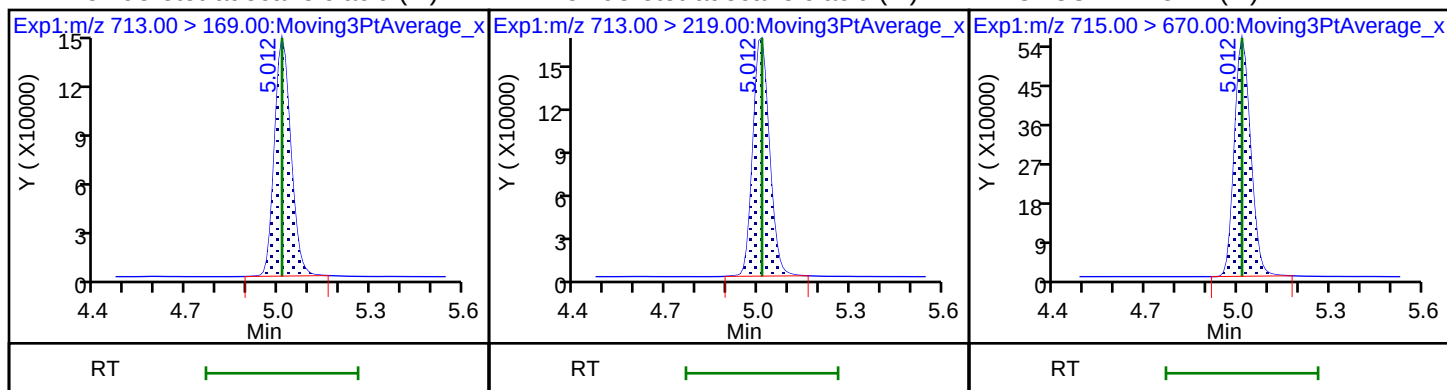
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

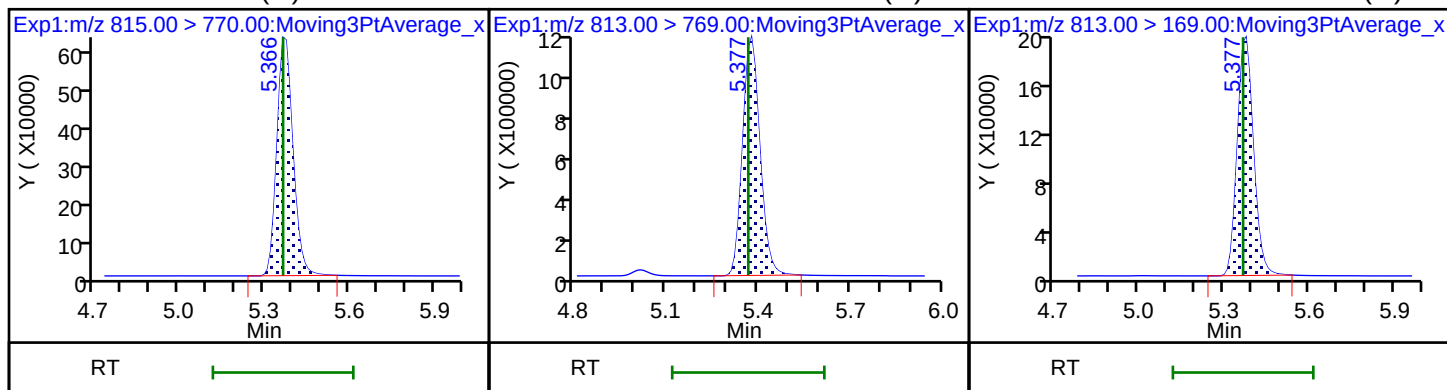
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

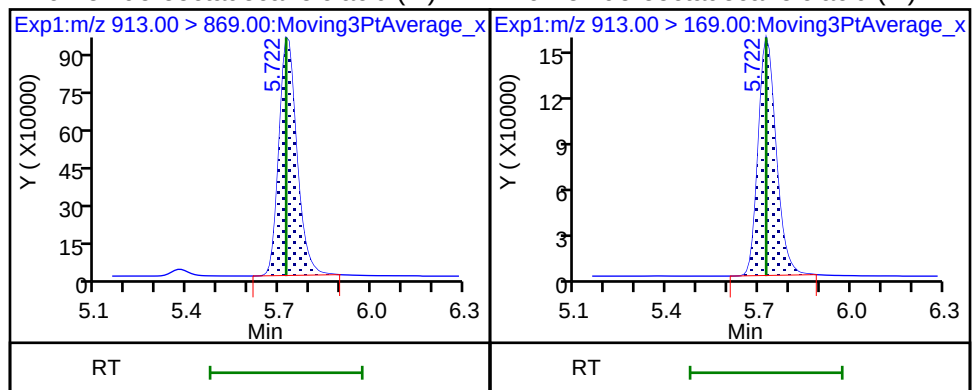
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

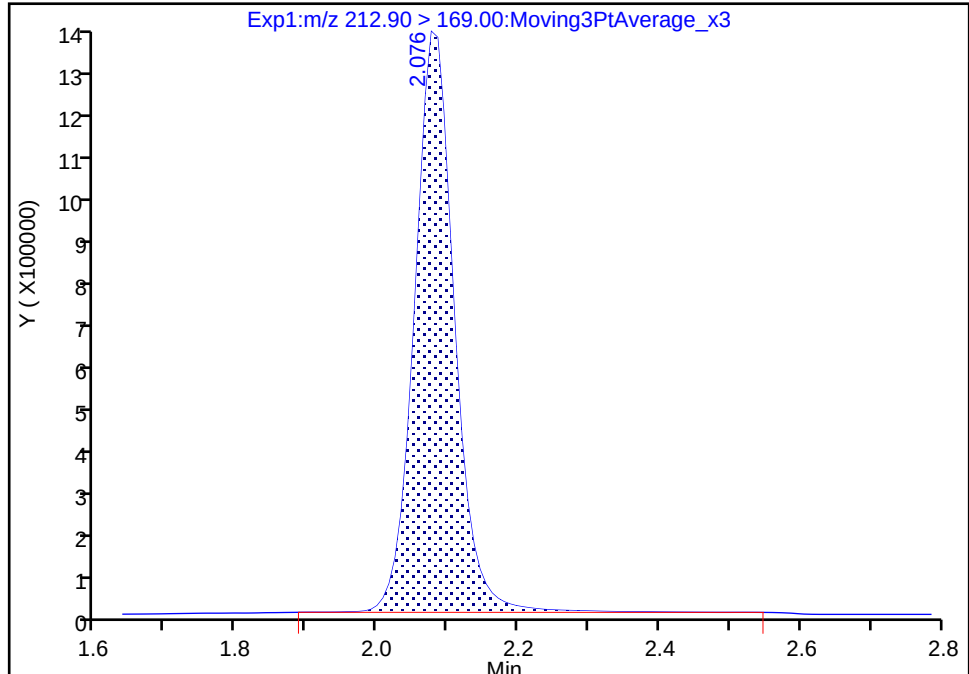
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

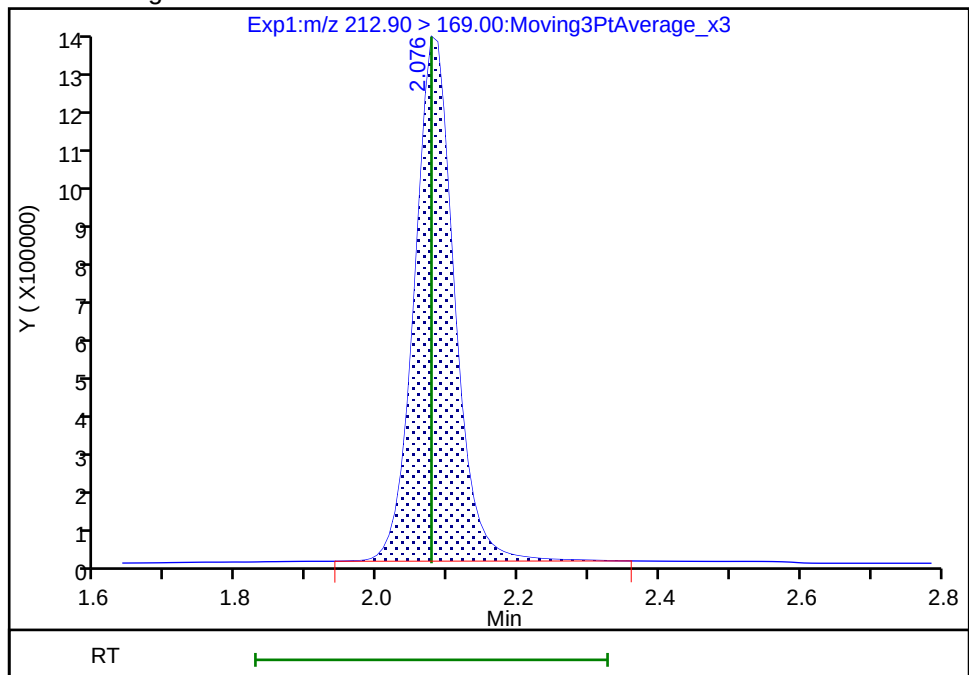
RT: 2.08
Area: 5129420
Amount: 2.272604
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 5105461
Amount: 2.309927
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:13:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

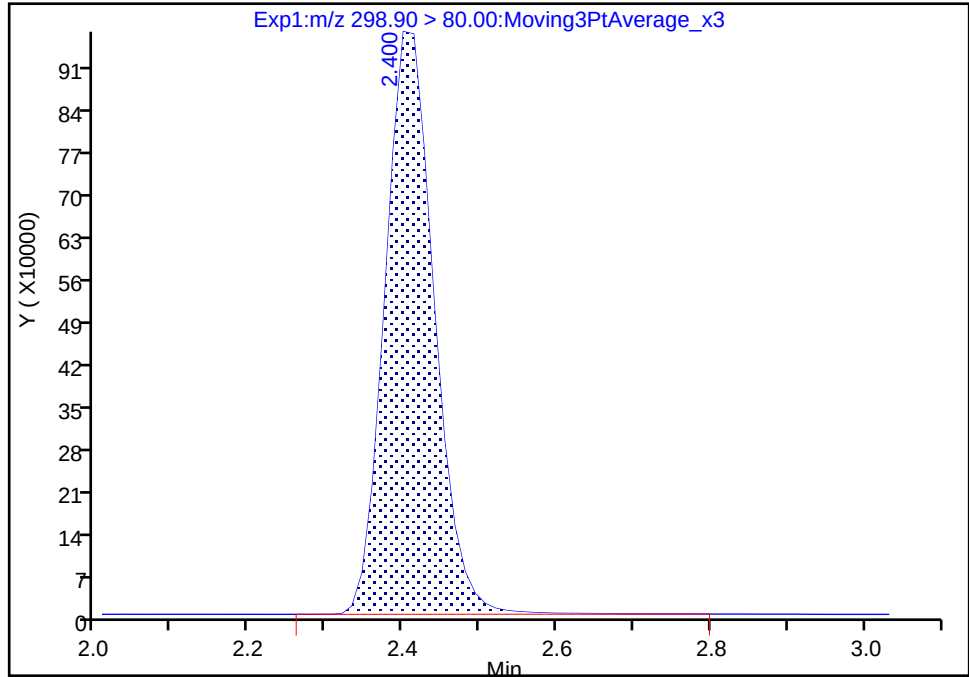
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

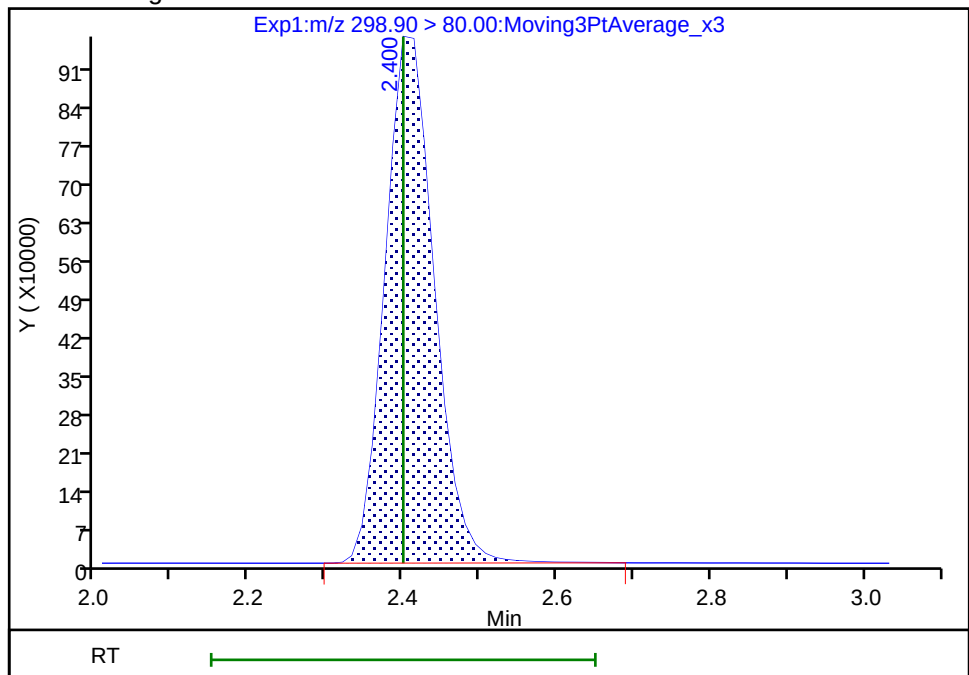
RT: 2.40
Area: 4298516
Amount: 2.130457
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4292437
Amount: 2.151992
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

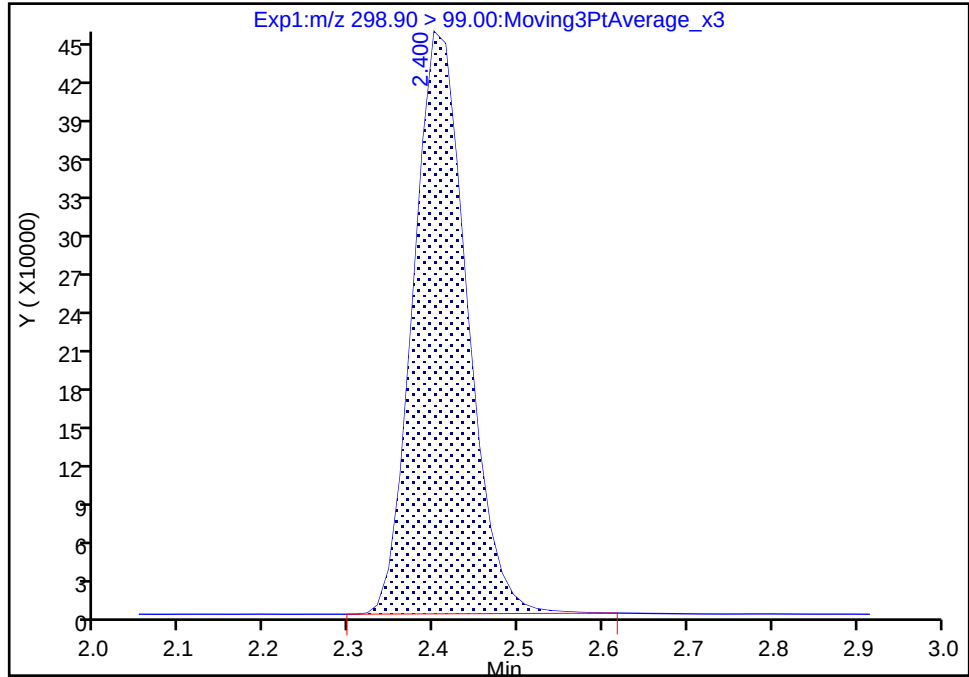
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

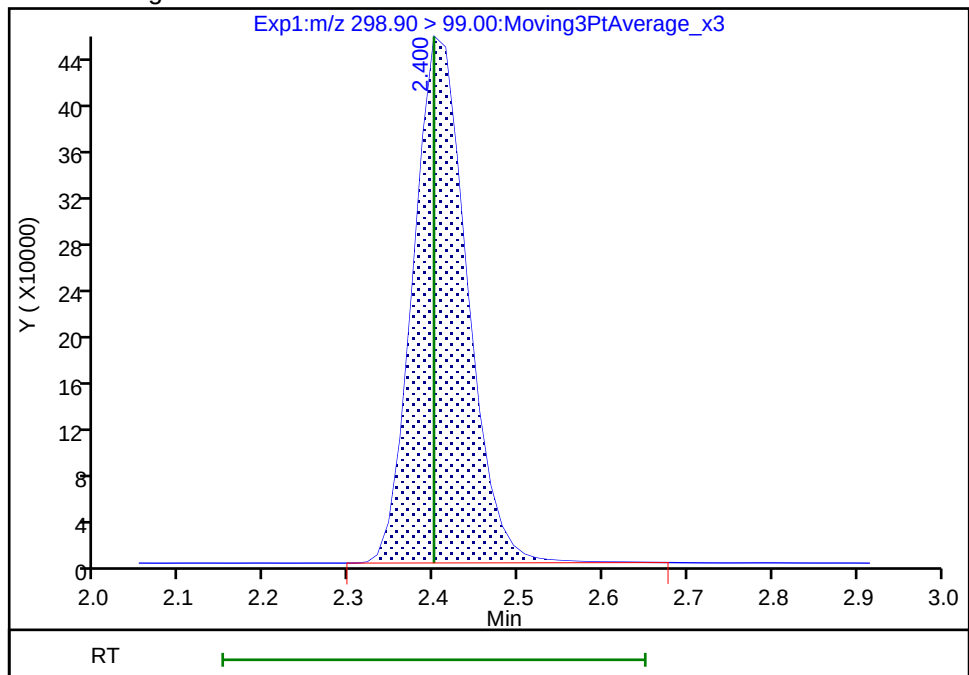
RT: 2.40
Area: 2019708
Amount: 2.130457
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2025175
Amount: 2.151992
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

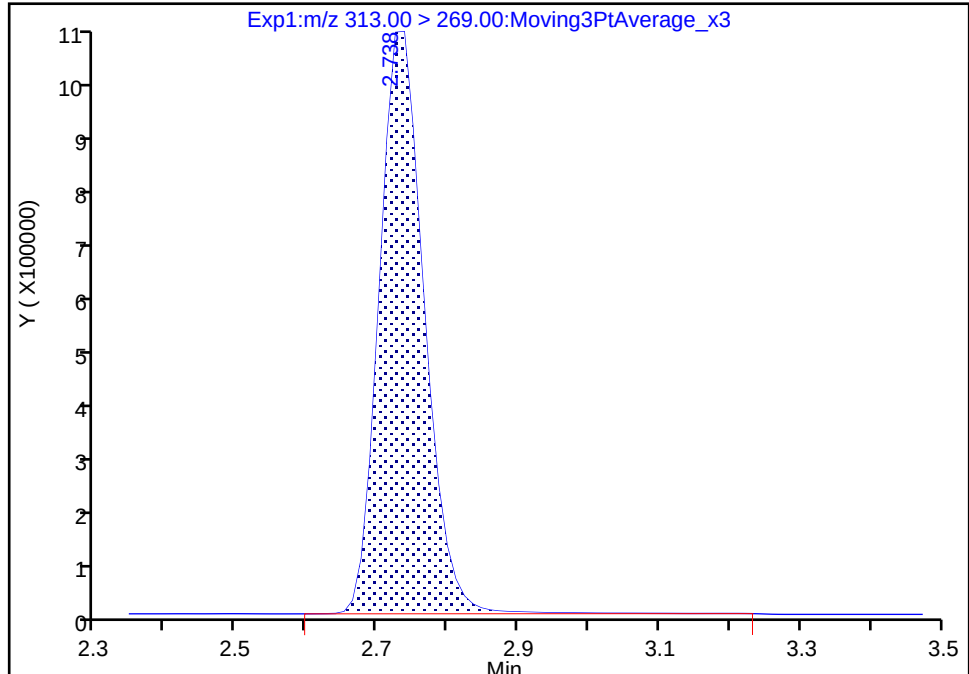
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

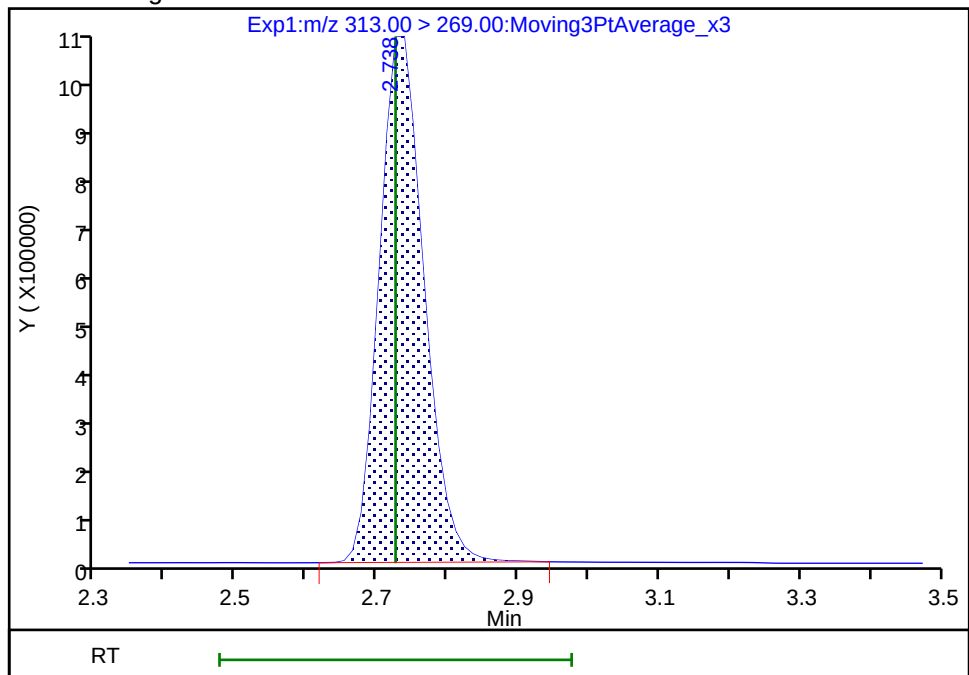
RT: 2.74
Area: 4577392
Amount: 2.375601
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 4547952
Amount: 2.410988
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

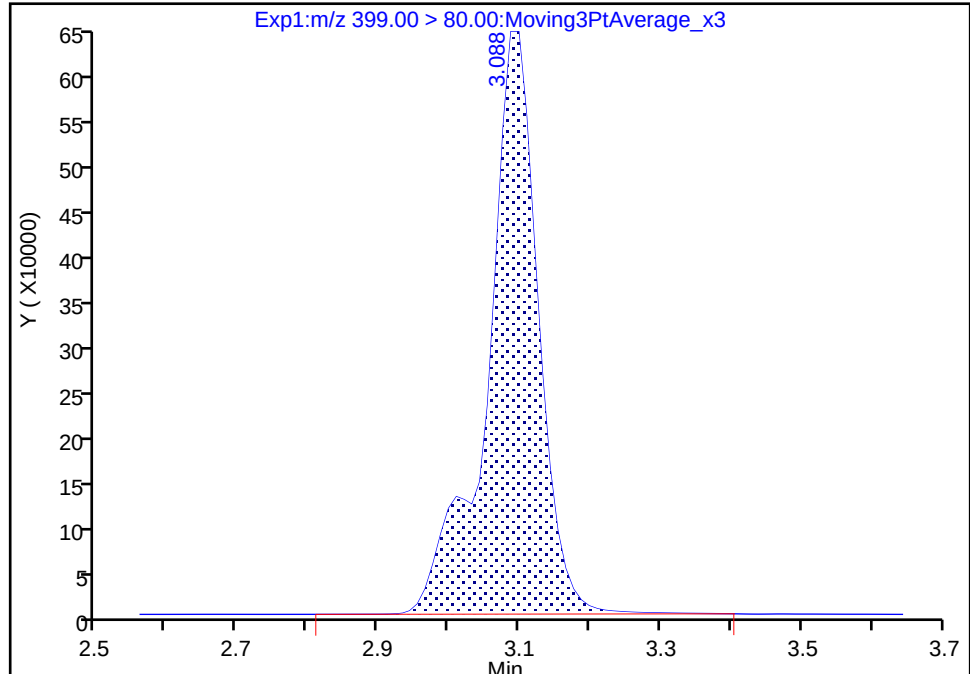
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

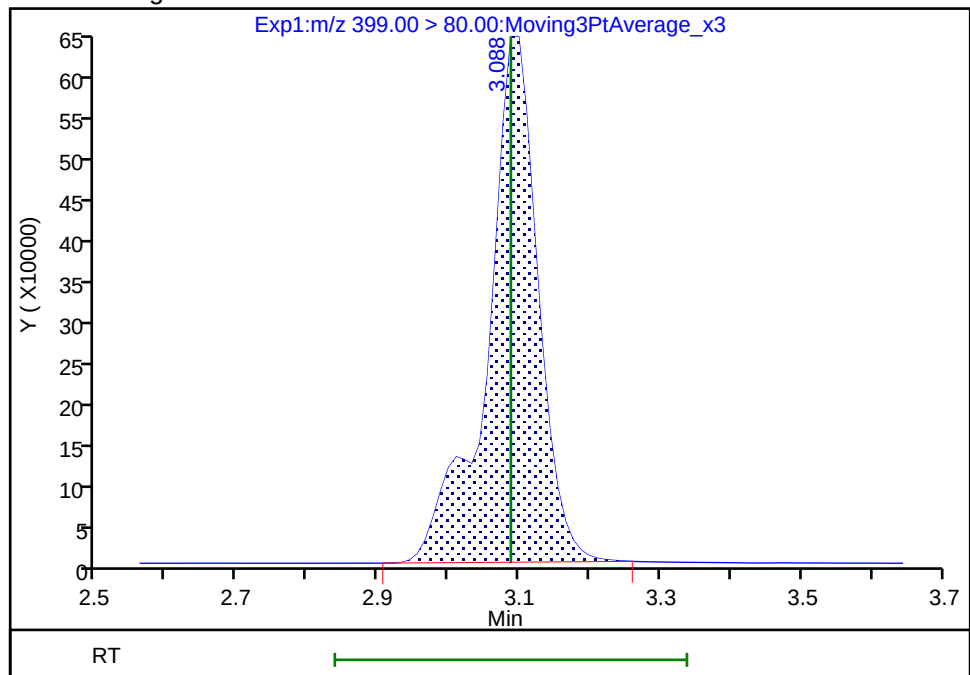
RT: 3.09
Area: 3243457
Amount: 2.251723
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3217665
Amount: 2.268961
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

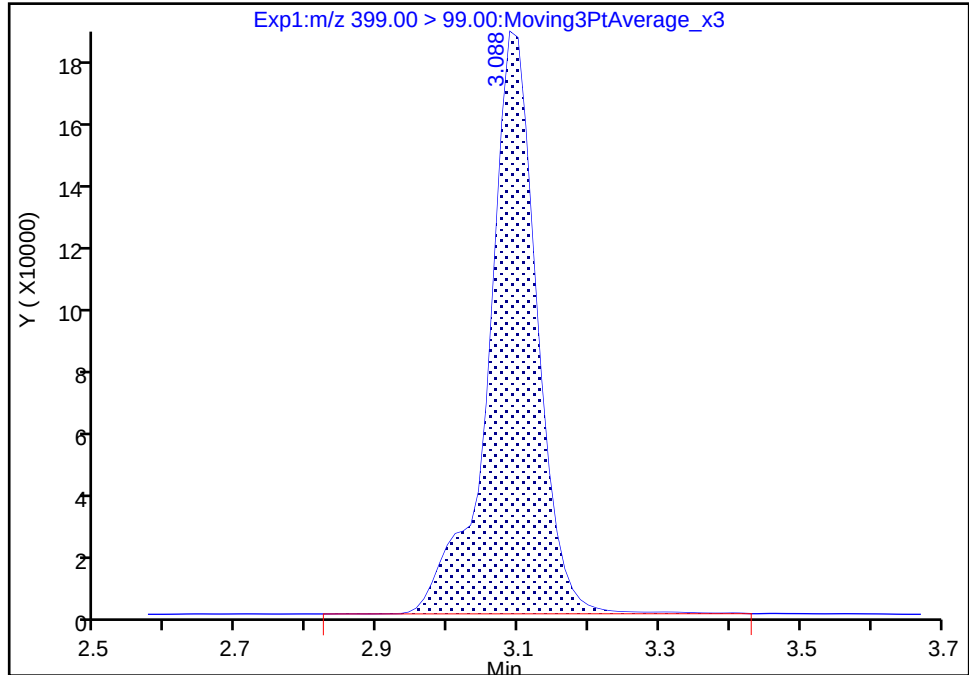
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

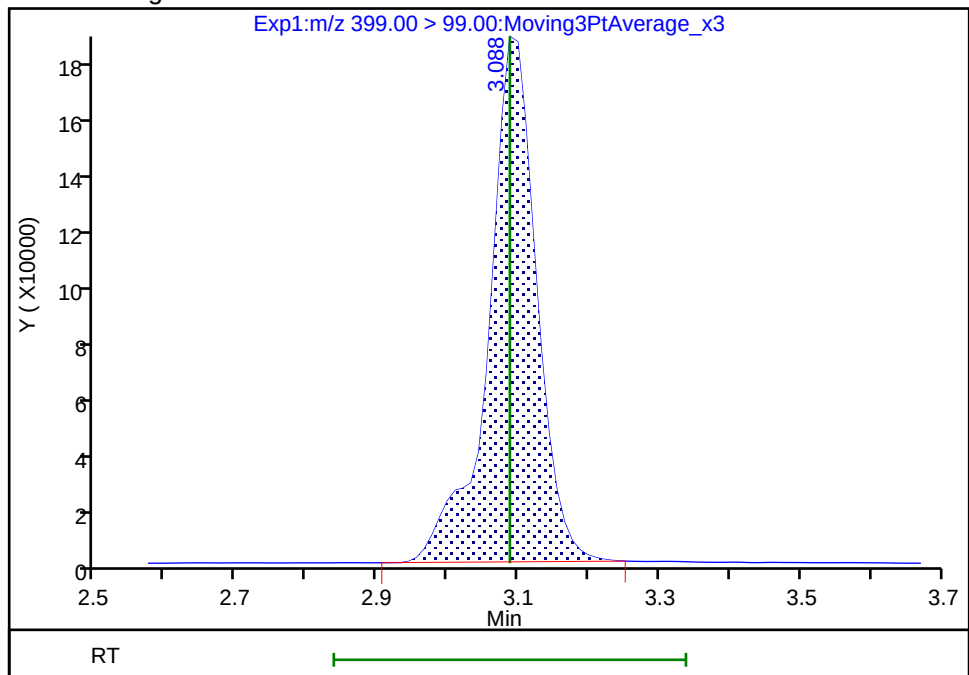
RT: 3.09
Area: 898780
Amount: 2.251723
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 889058
Amount: 2.268961
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

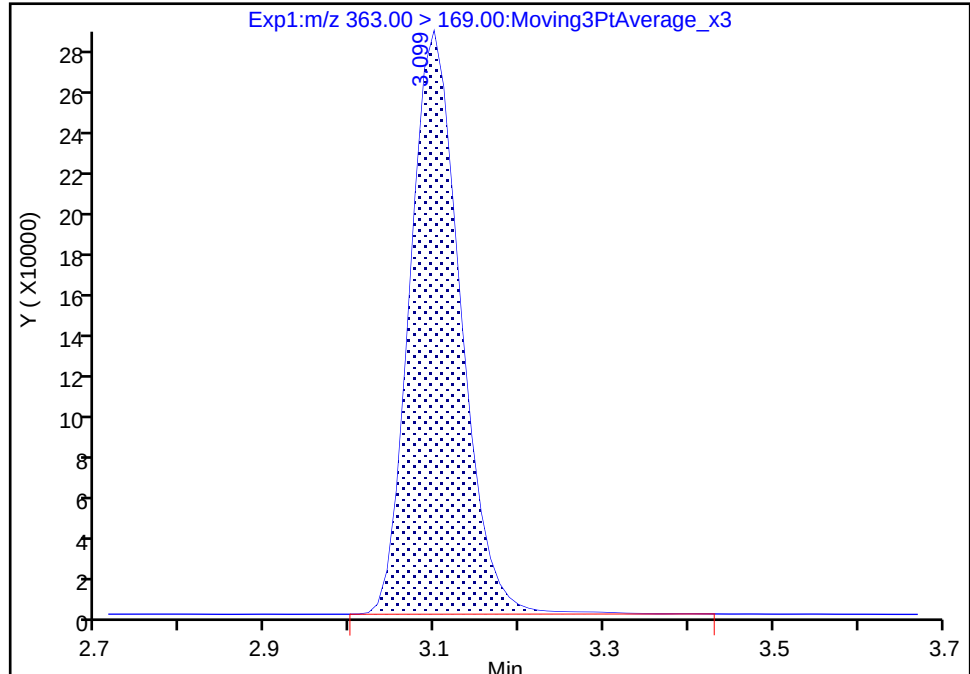
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

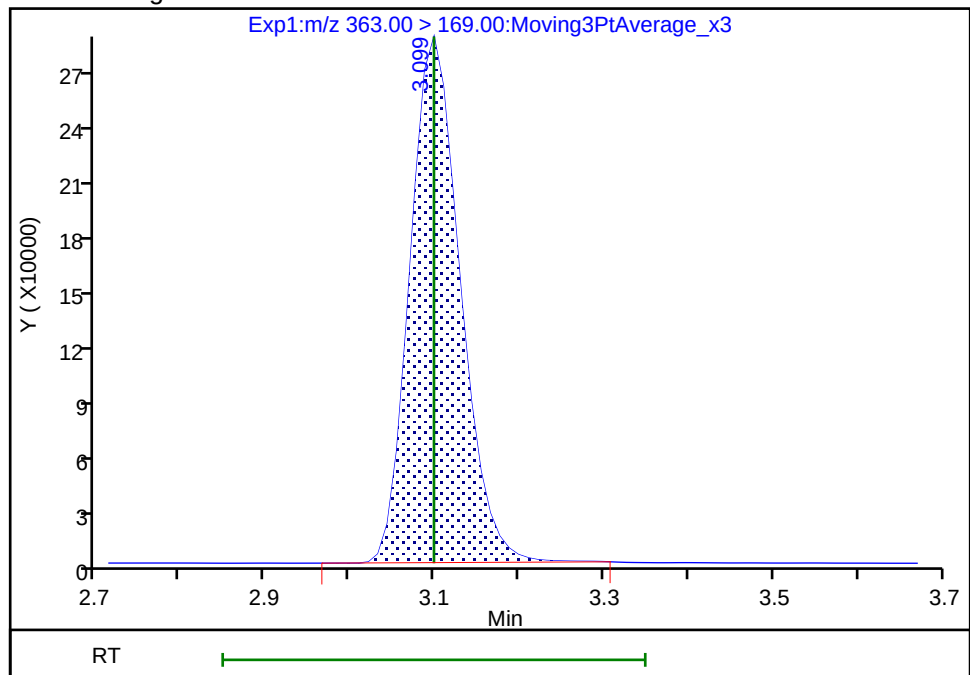
RT: 3.10
Area: 1190139
Amount: 2.284231
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1182521
Amount: 2.331429
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

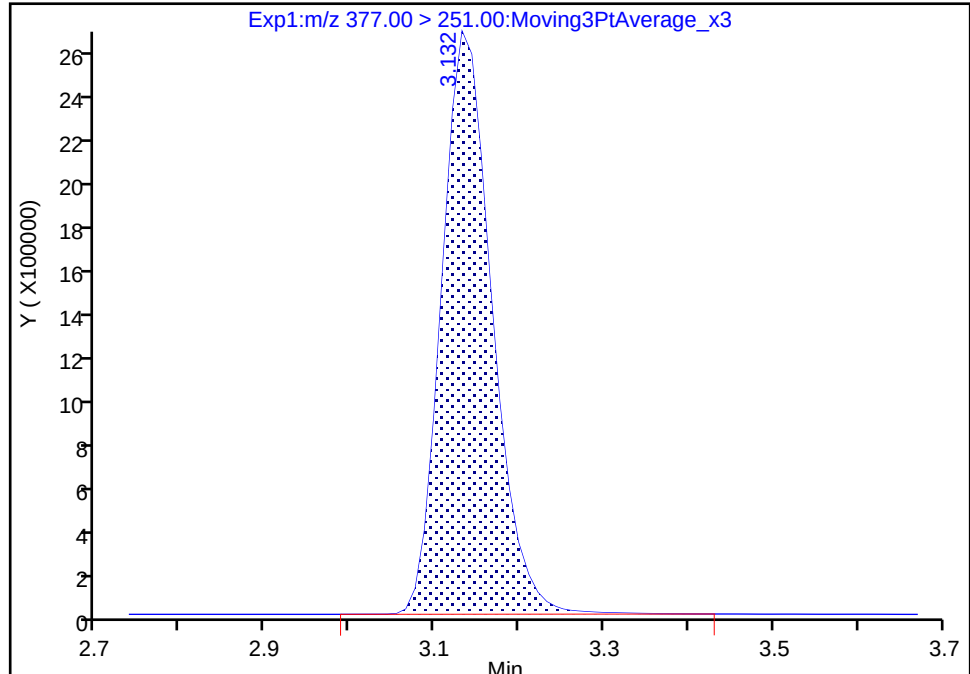
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

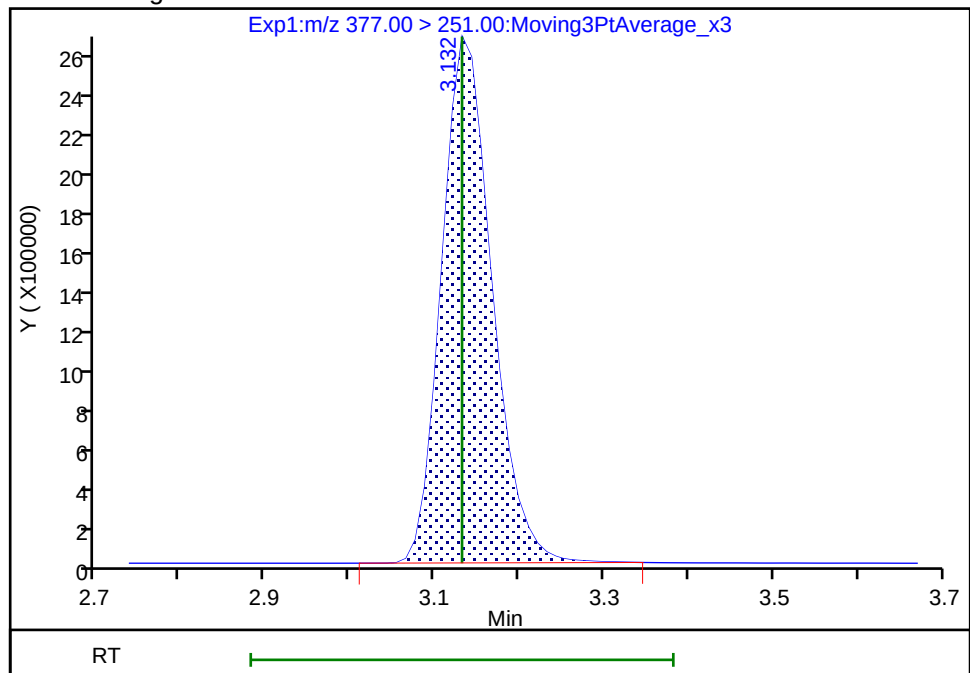
RT: 3.13
Area: 10854434
Amount: 2.160250
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 10824421
Amount: 2.237483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

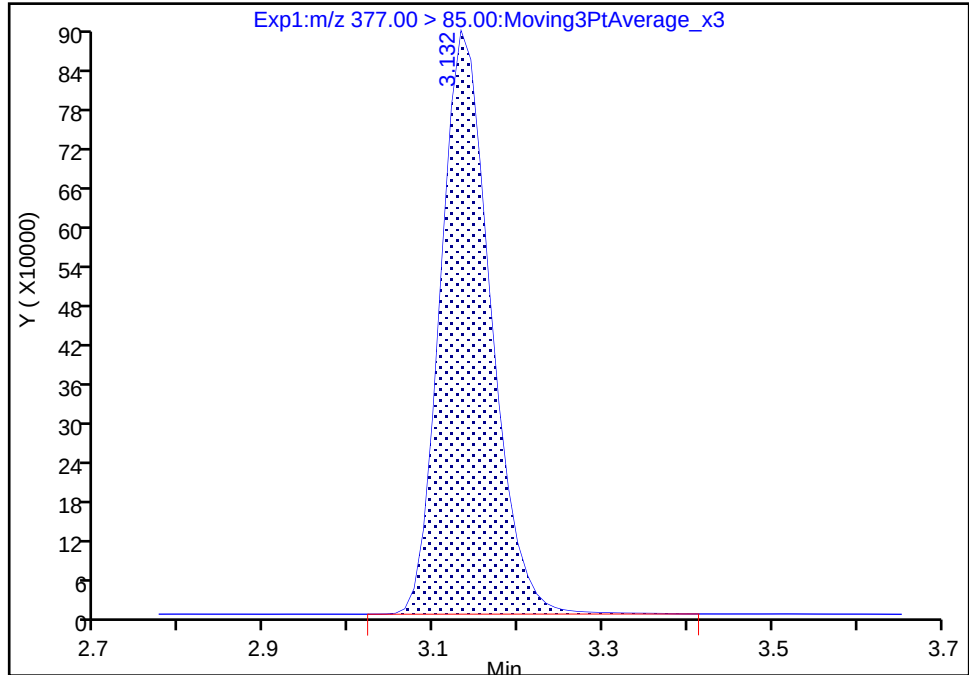
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

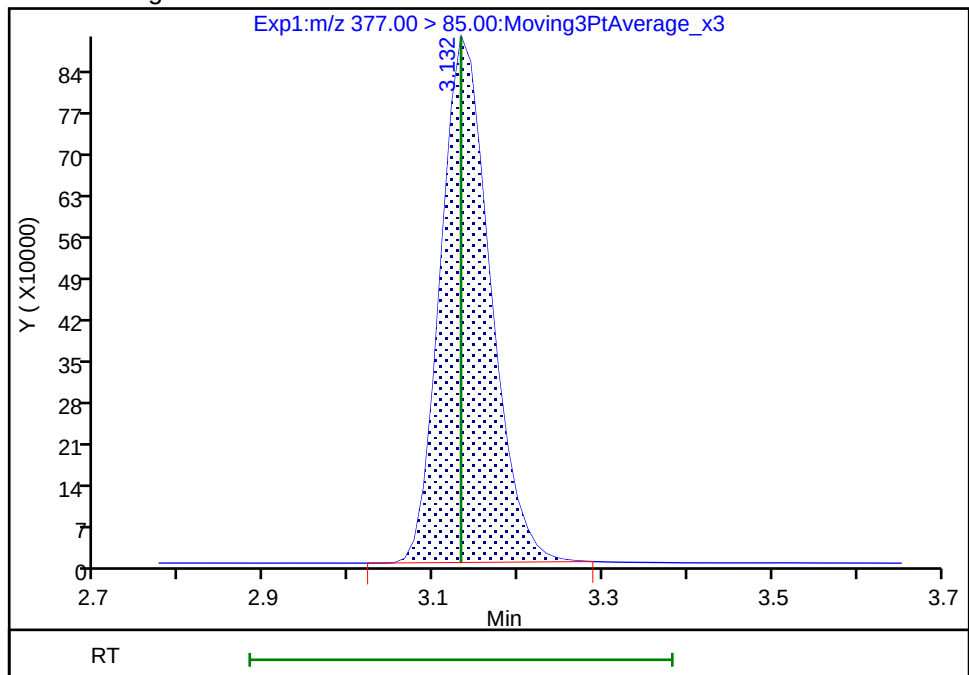
RT: 3.13
Area: 3658251
Amount: 2.160250
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 3633058
Amount: 2.237483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

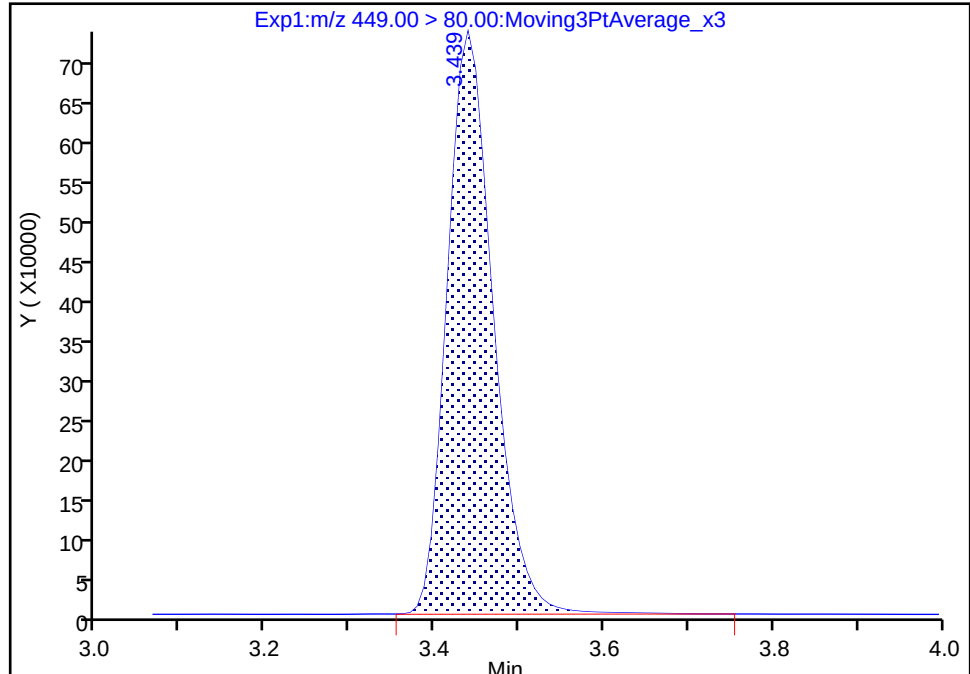
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

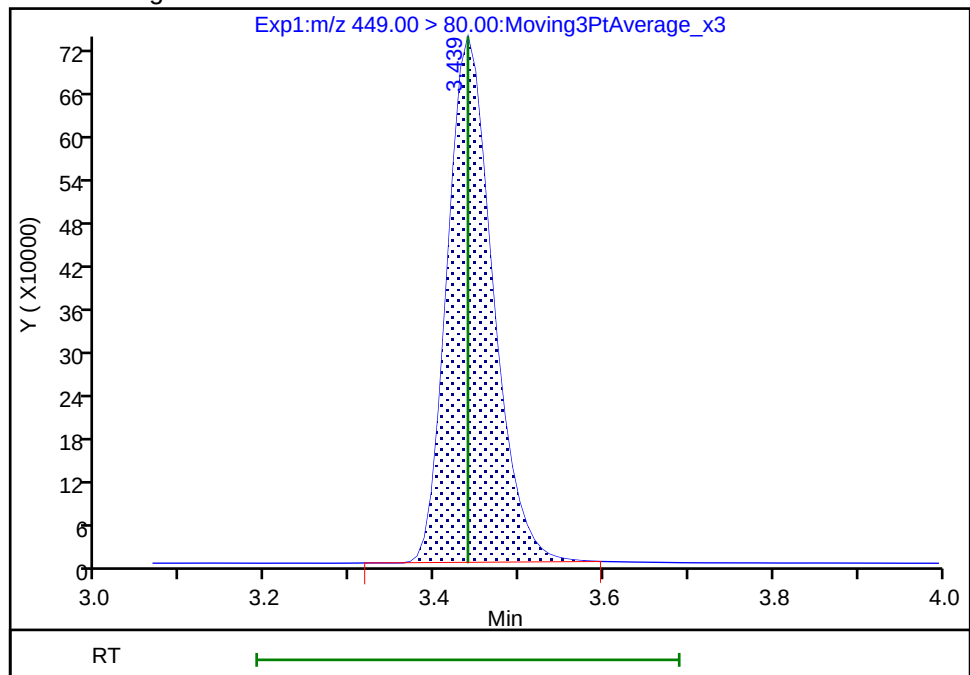
RT: 3.44
Area: 2770748
Amount: 2.218630
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2744265
Amount: 2.236625
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

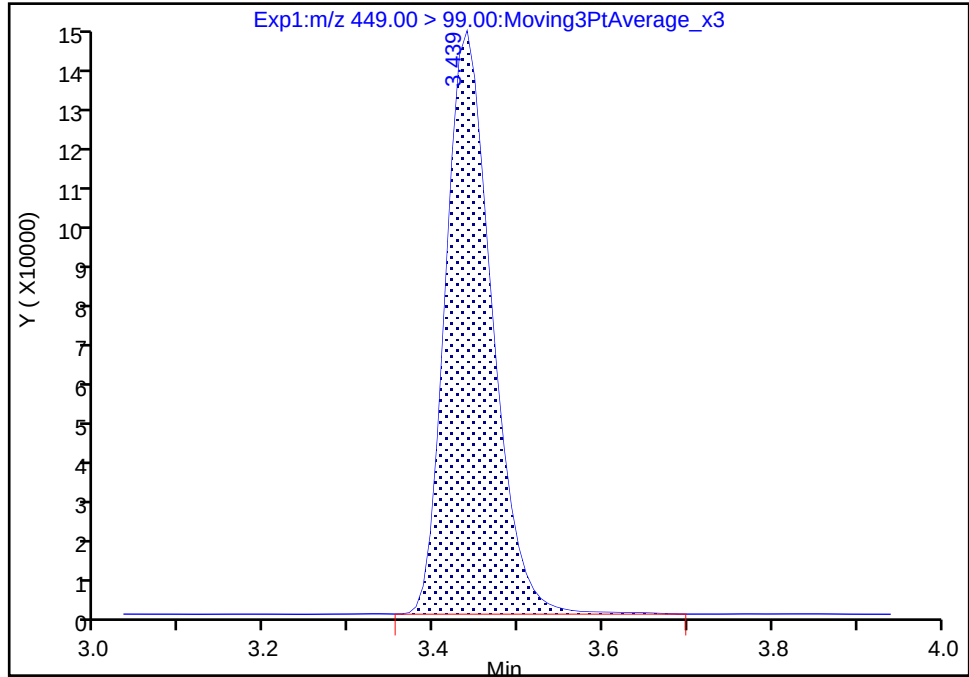
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

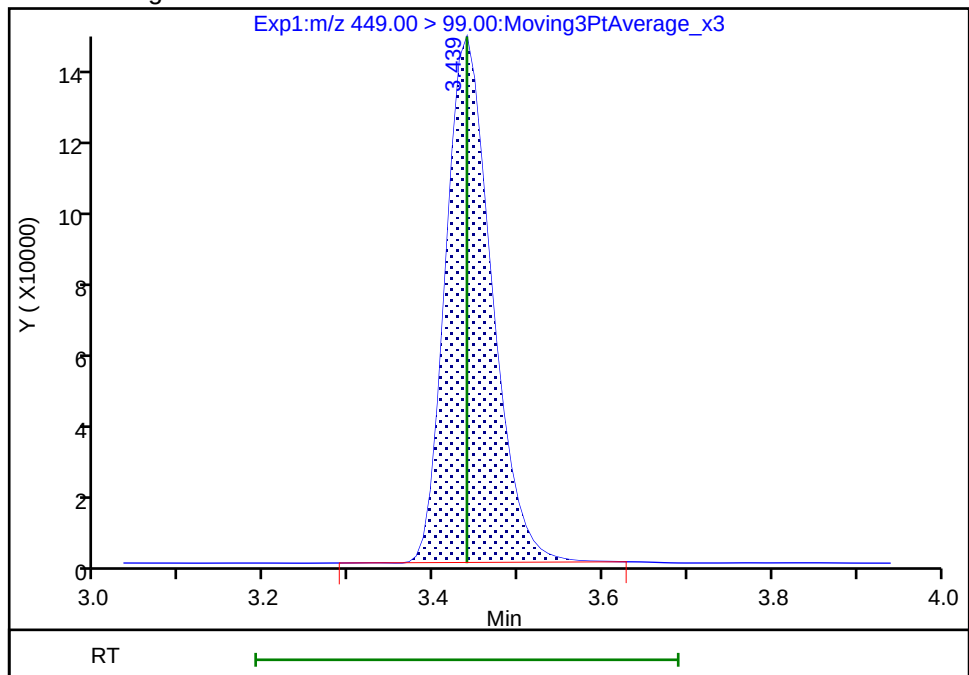
RT: 3.44
Area: 547308
Amount: 2.218630
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 543093
Amount: 2.236625
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

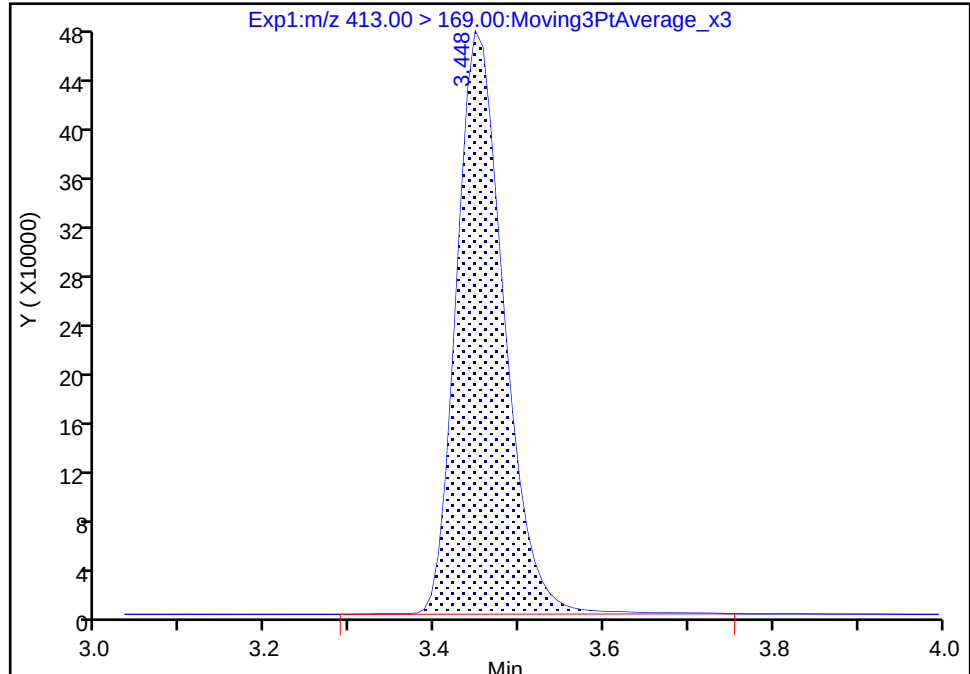
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

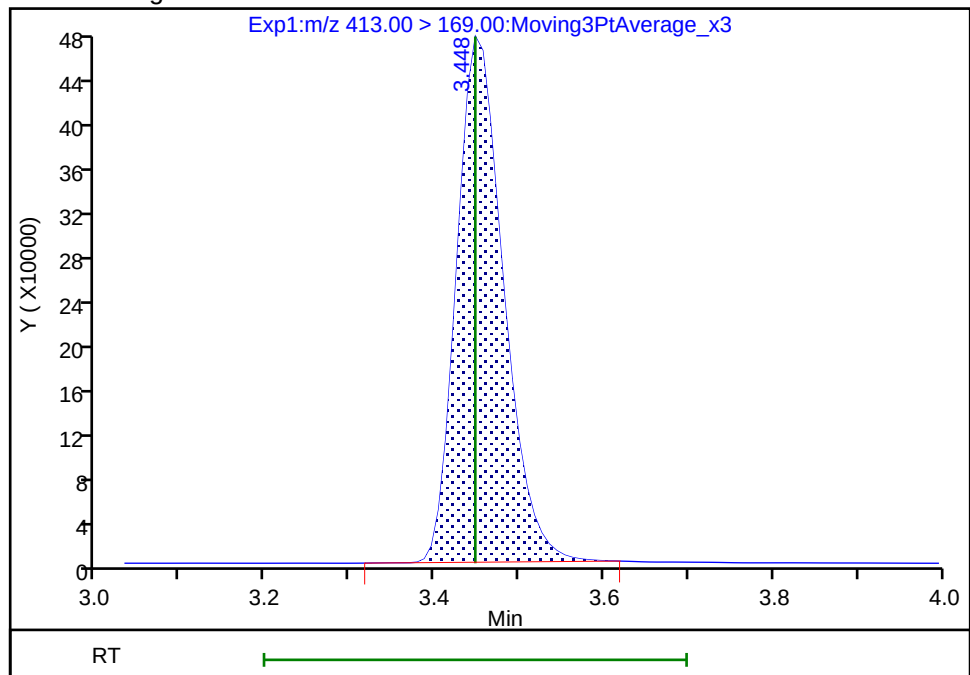
RT: 3.45
Area: 1843216
Amount: 2.392012
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1822258
Amount: 2.439483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

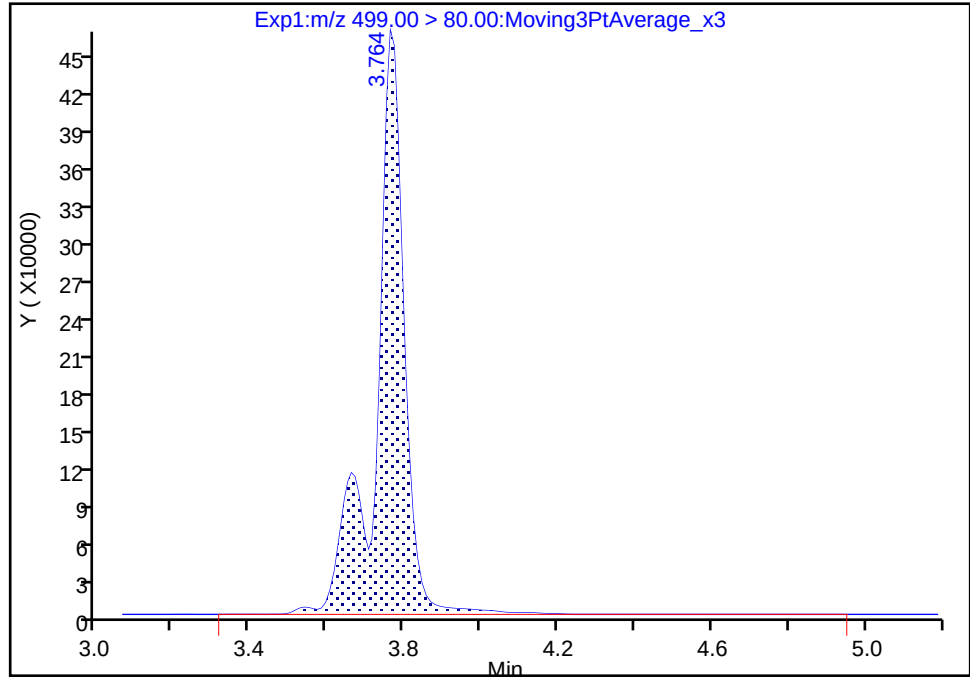
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

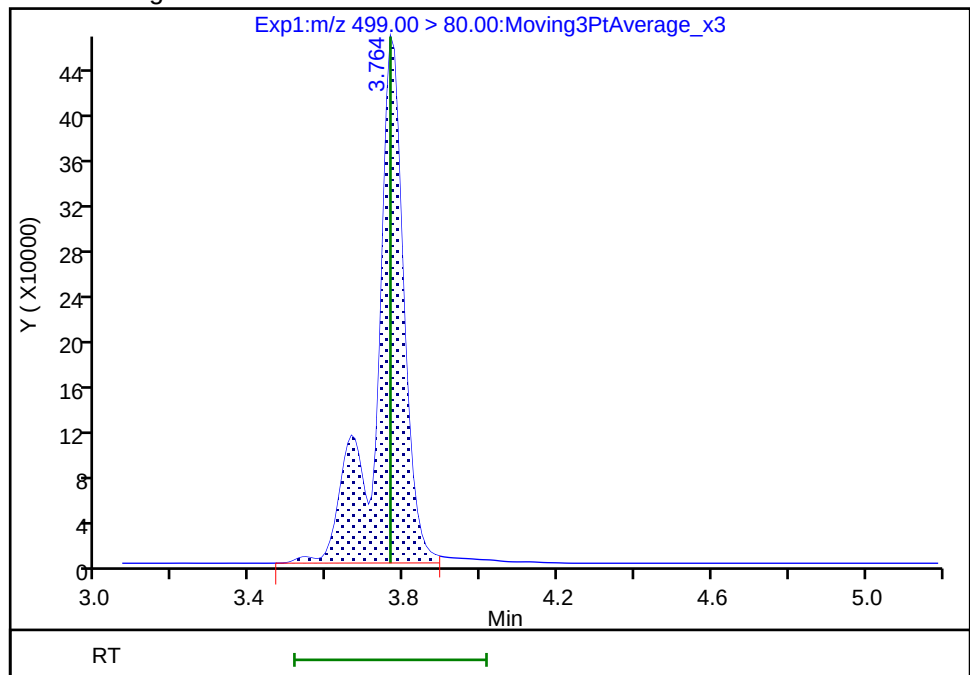
RT: 3.76
Area: 2390090
Amount: 2.188375
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 2338057
Amount: 2.188506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

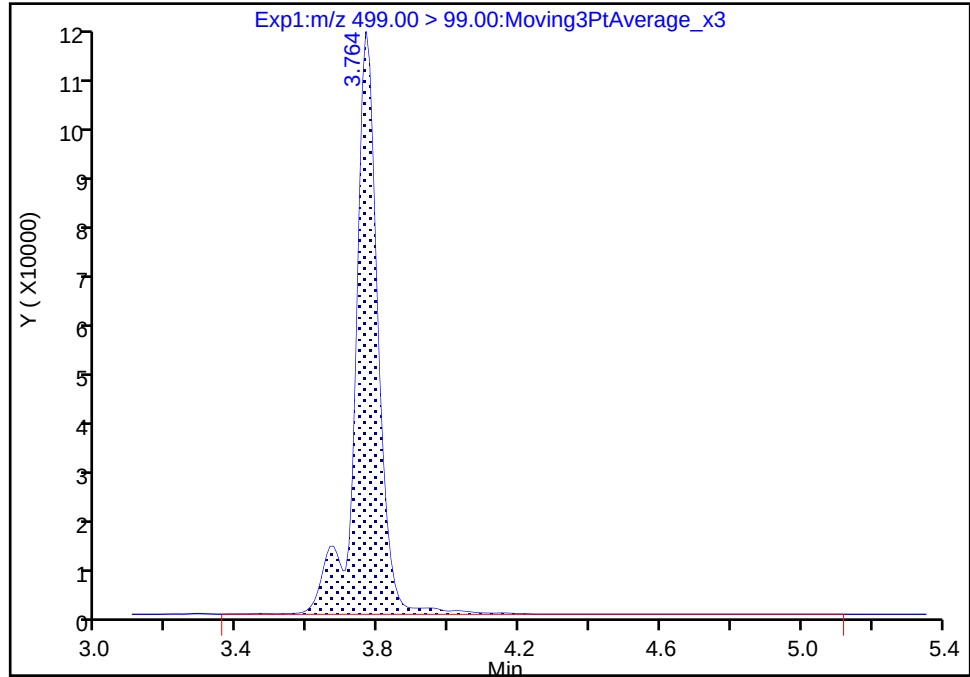
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

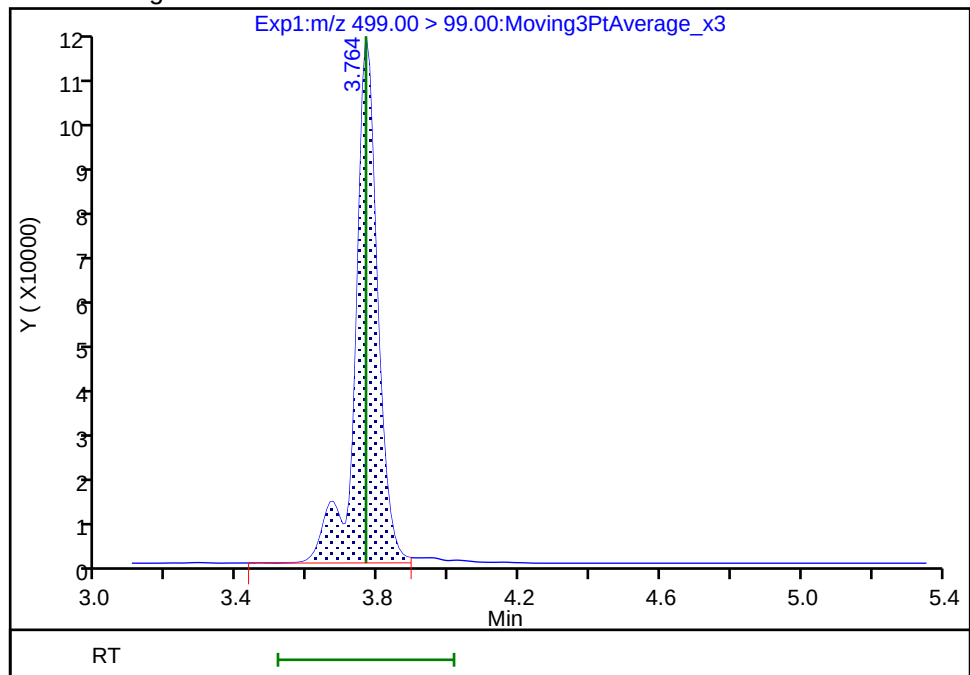
RT: 3.76
Area: 503068
Amount: 2.188375
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 491265
Amount: 2.188506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

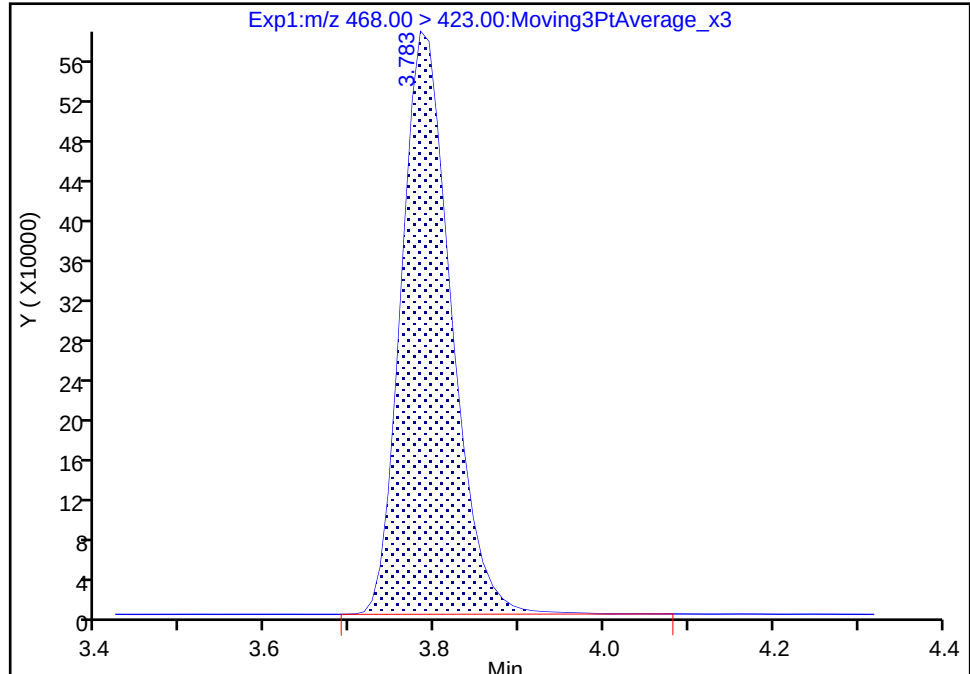
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

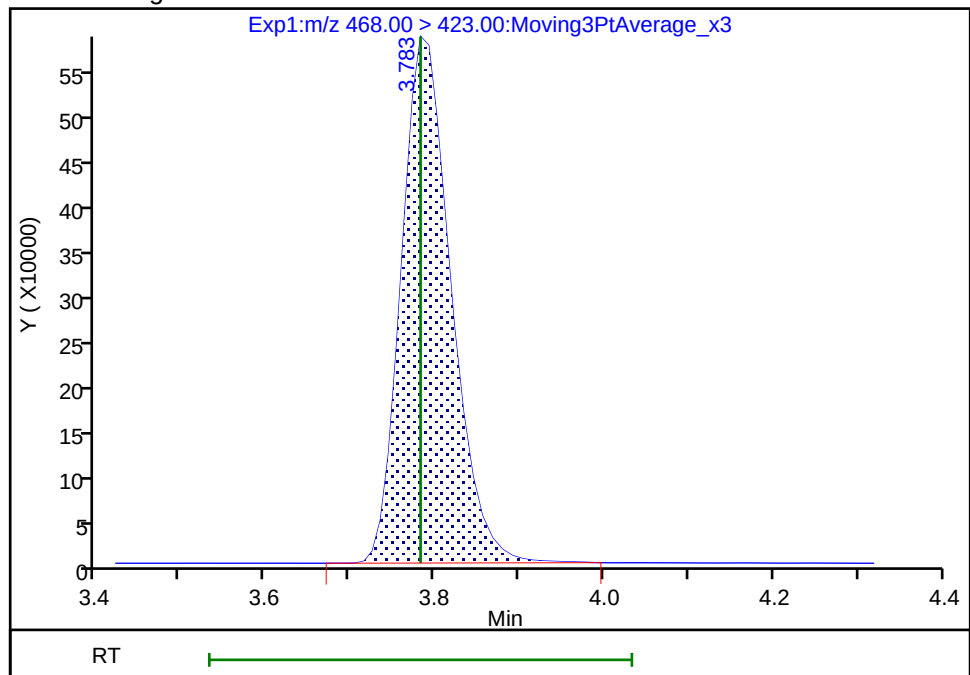
RT: 3.78
Area: 2405533
Amount: 1.262145
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2401890
Amount: 1.260675
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

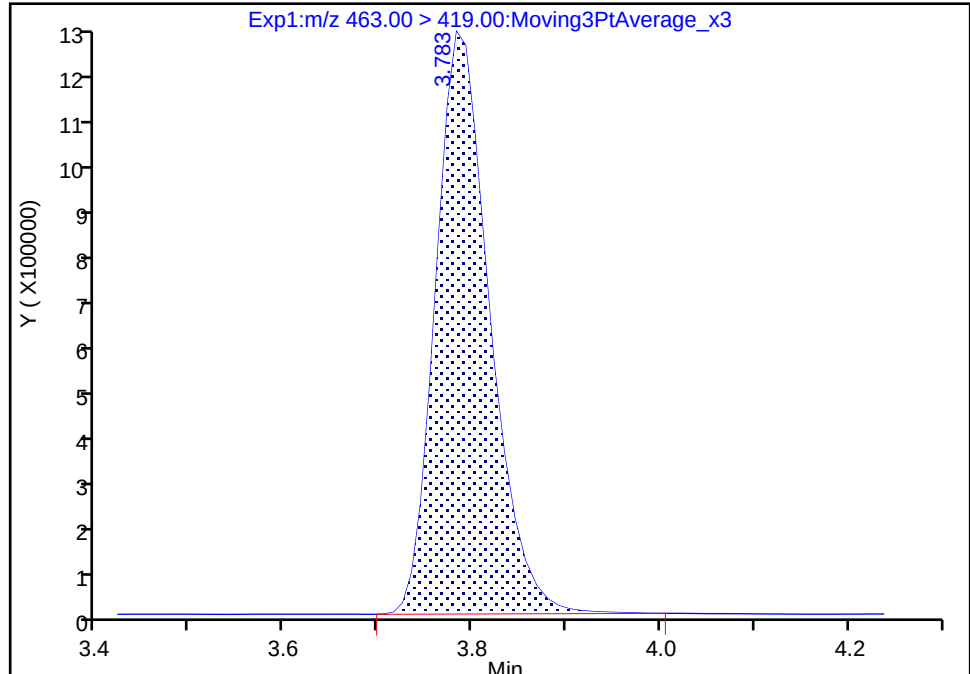
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

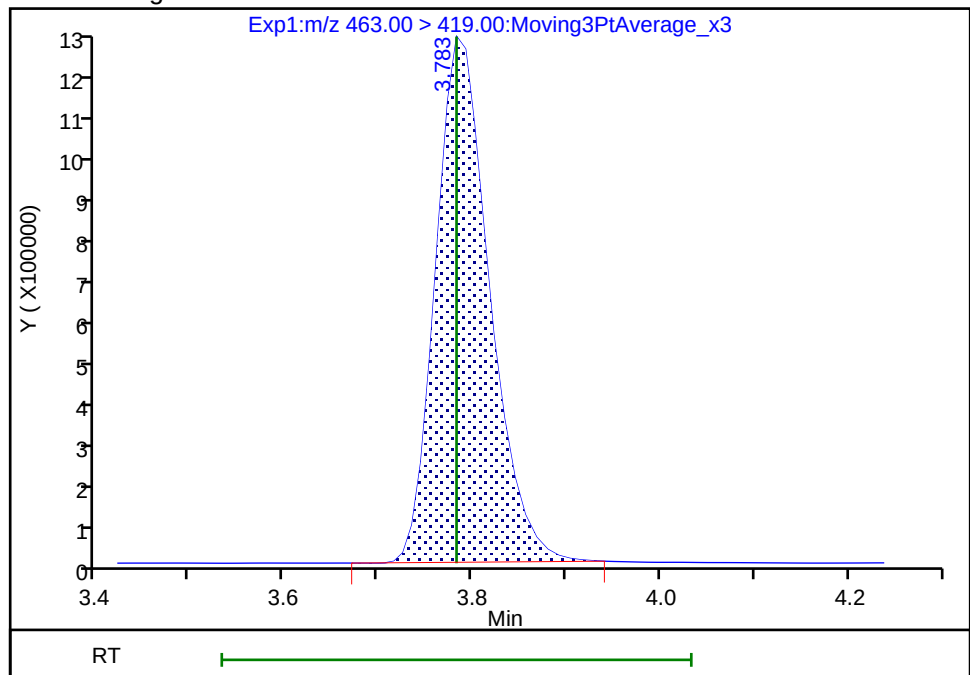
RT: 3.78
Area: 4963599
Amount: 2.455713
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 4930997
Amount: 2.473798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

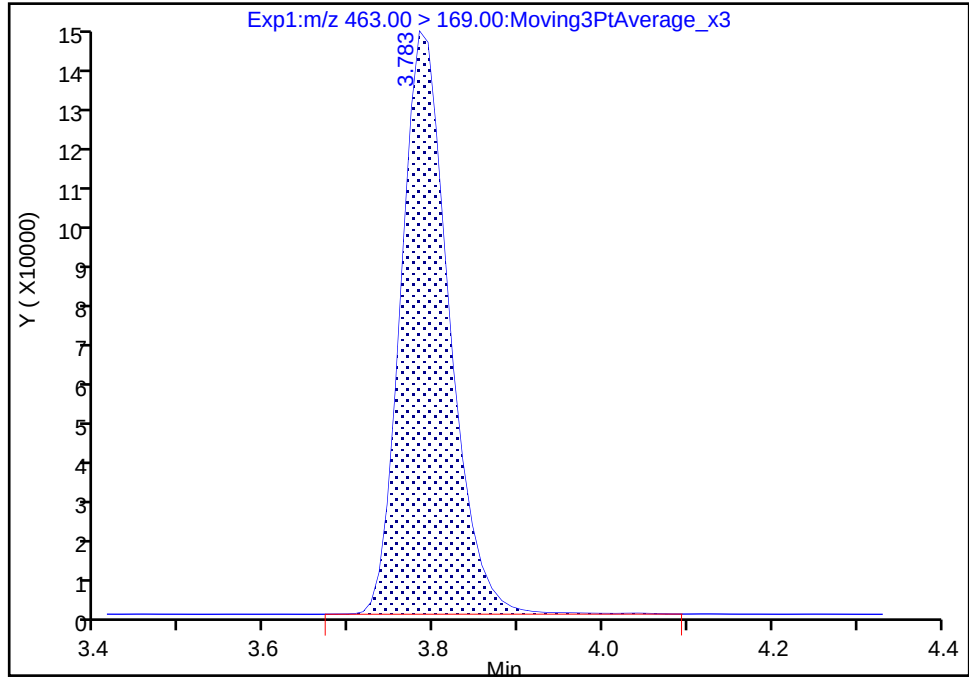
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

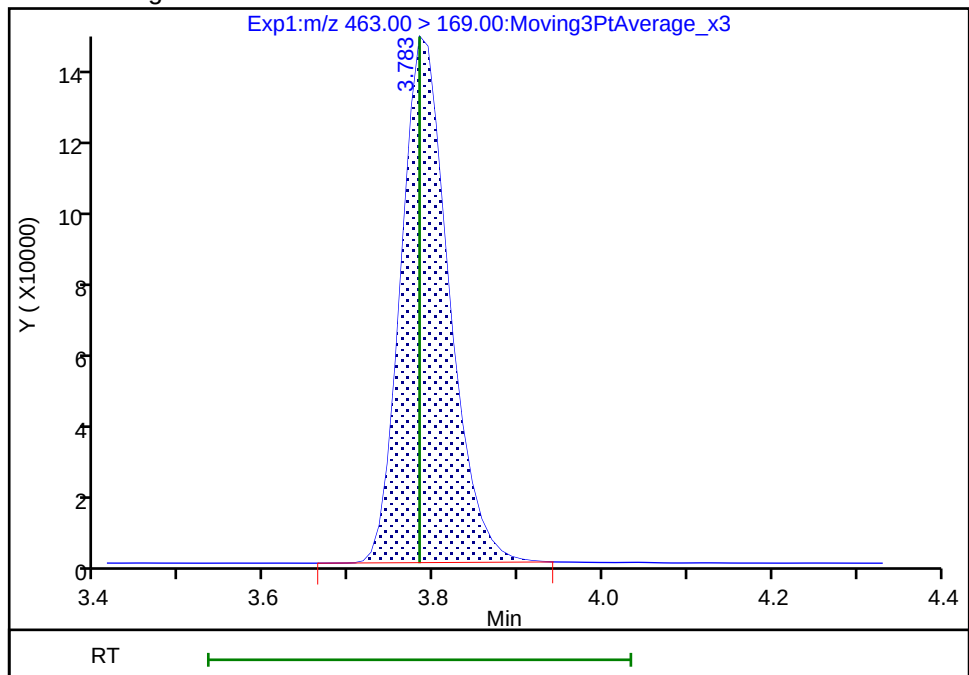
RT: 3.78
Area: 590176
Amount: 2.455713
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 586103
Amount: 2.473798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

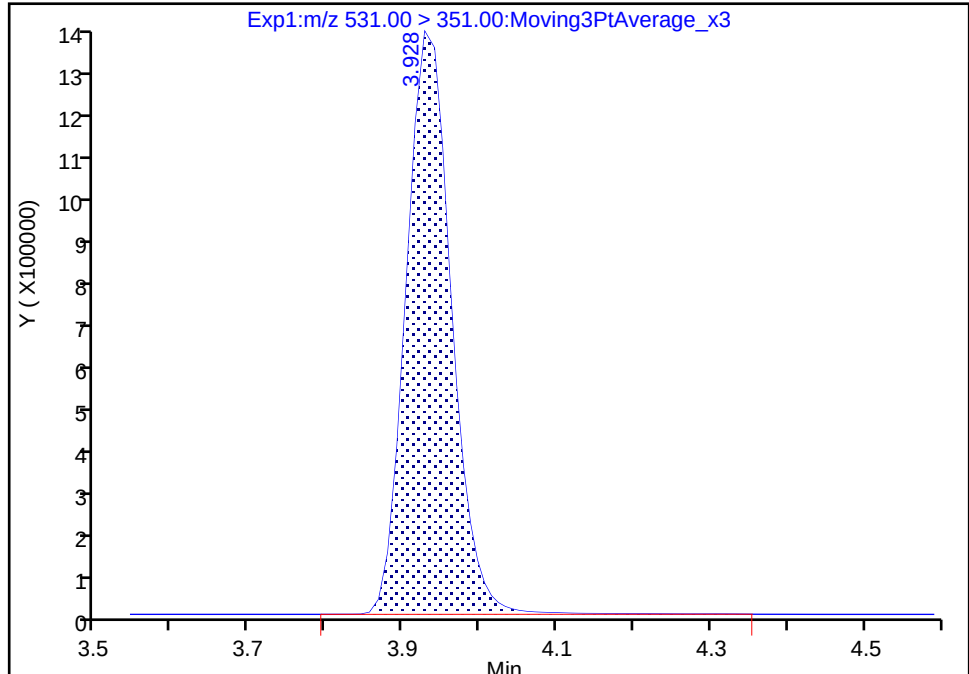
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

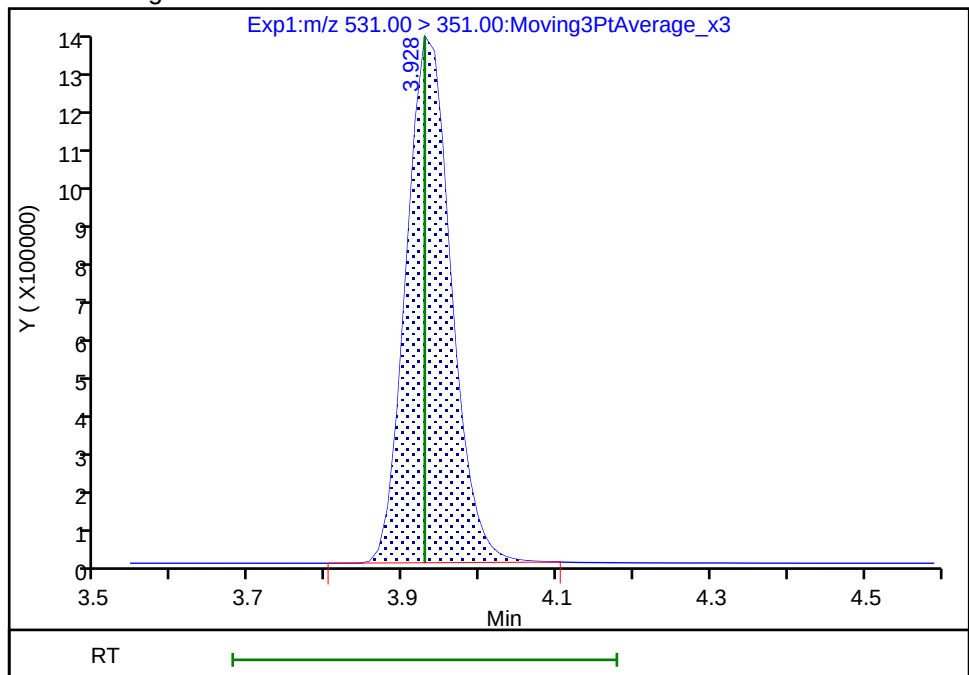
RT: 3.93
Area: 5551905
Amount: 2.217261
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 5512960
Amount: 2.248411
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

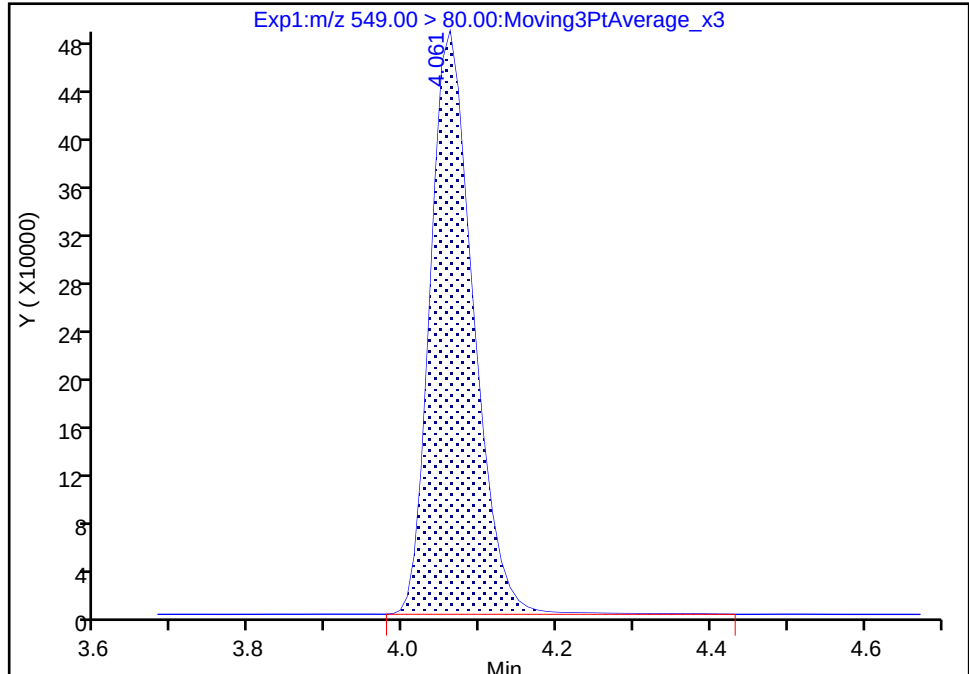
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

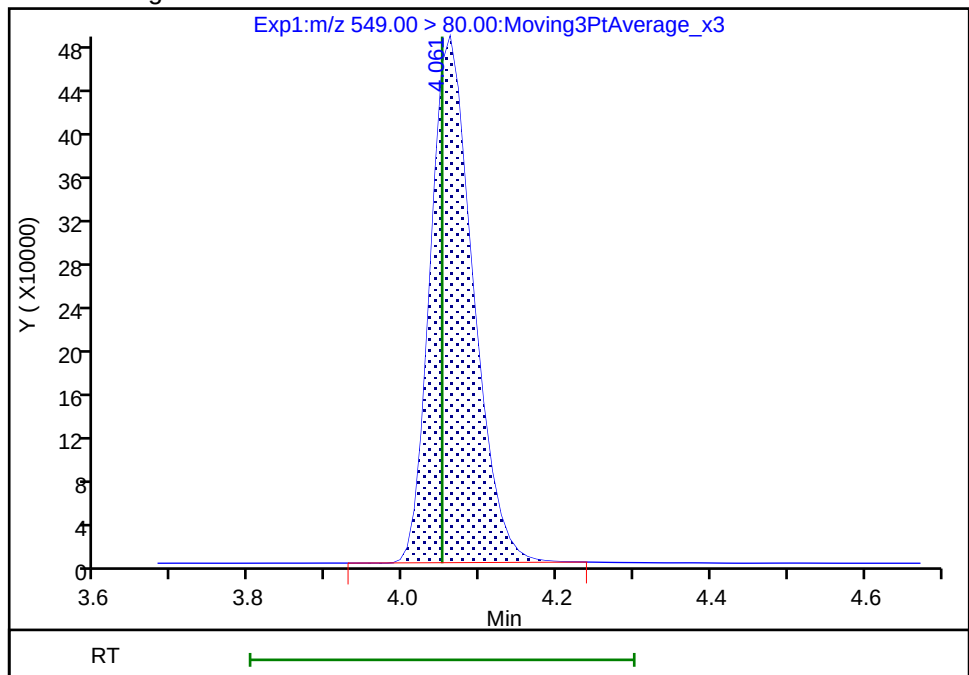
RT: 4.06
Area: 1886351
Amount: 2.304603
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 1871298
Amount: 2.320704
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

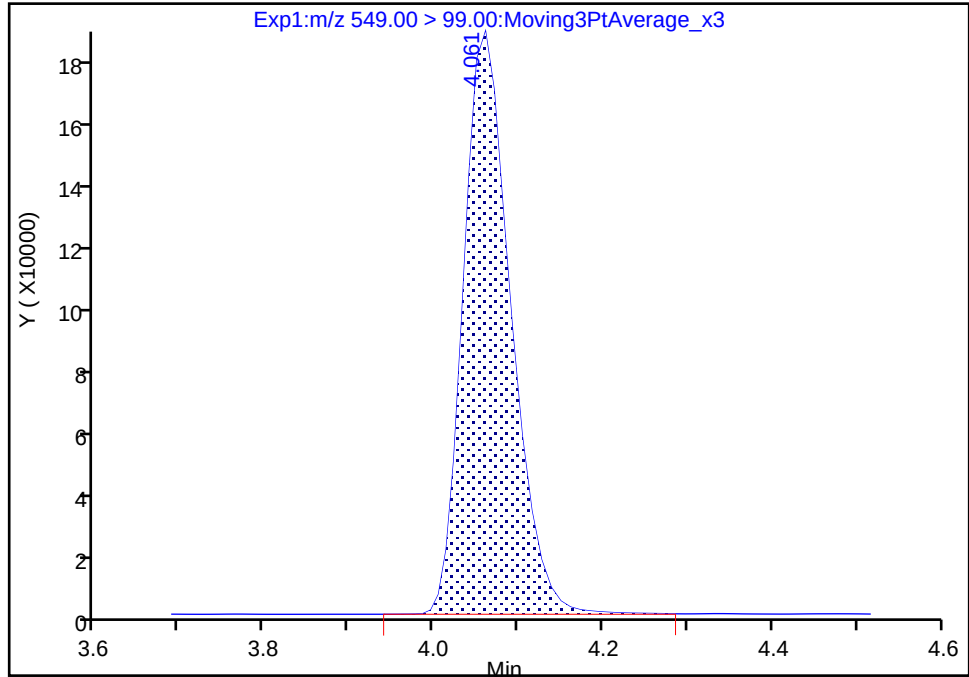
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

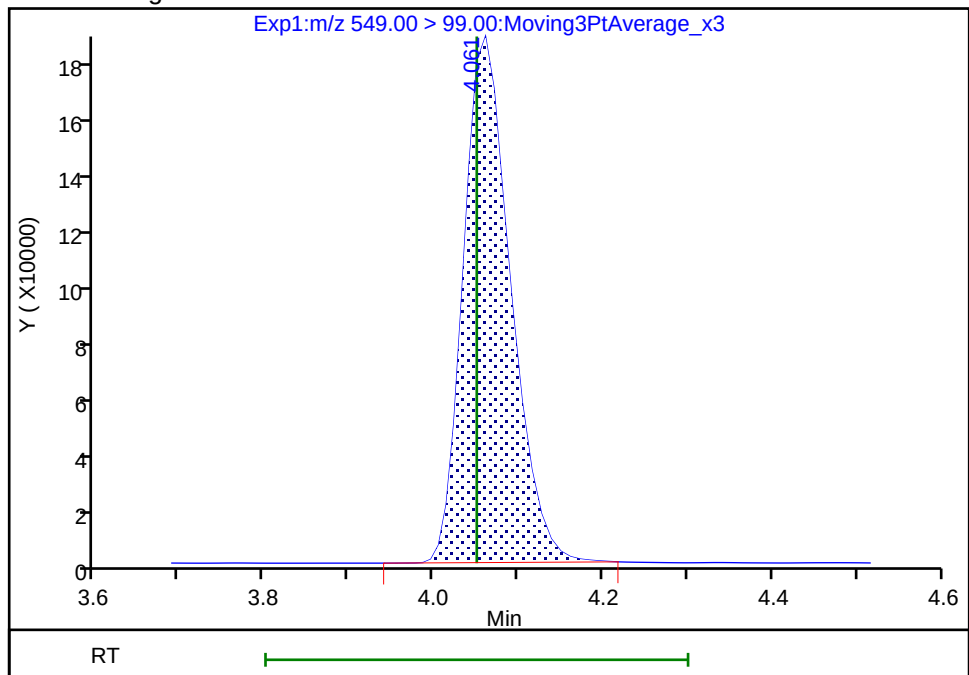
RT: 4.06
Area: 731815
Amount: 2.304603
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 726837
Amount: 2.320704
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

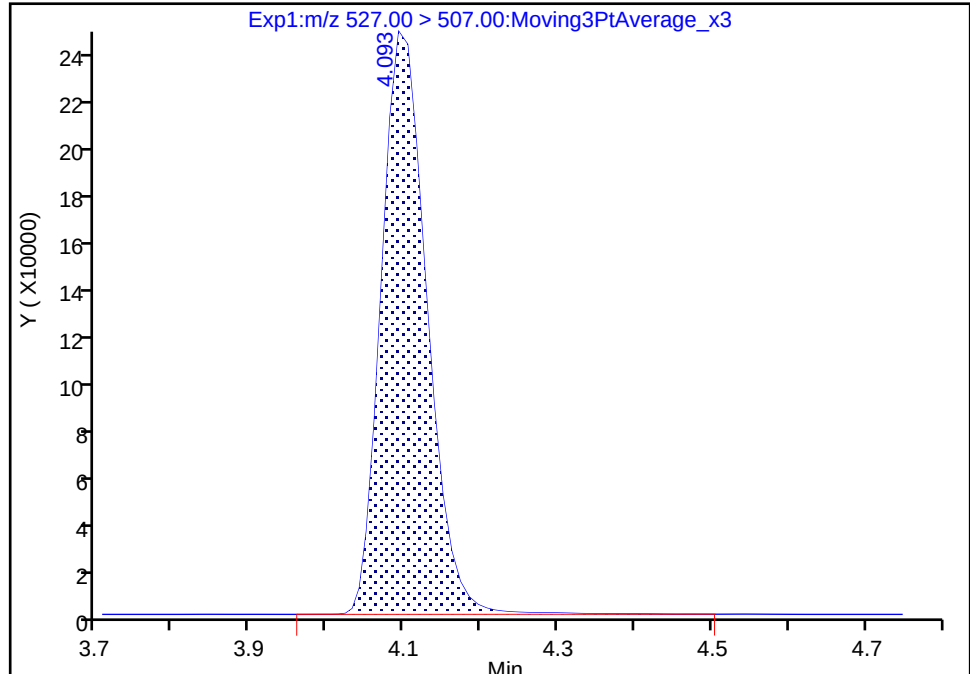
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

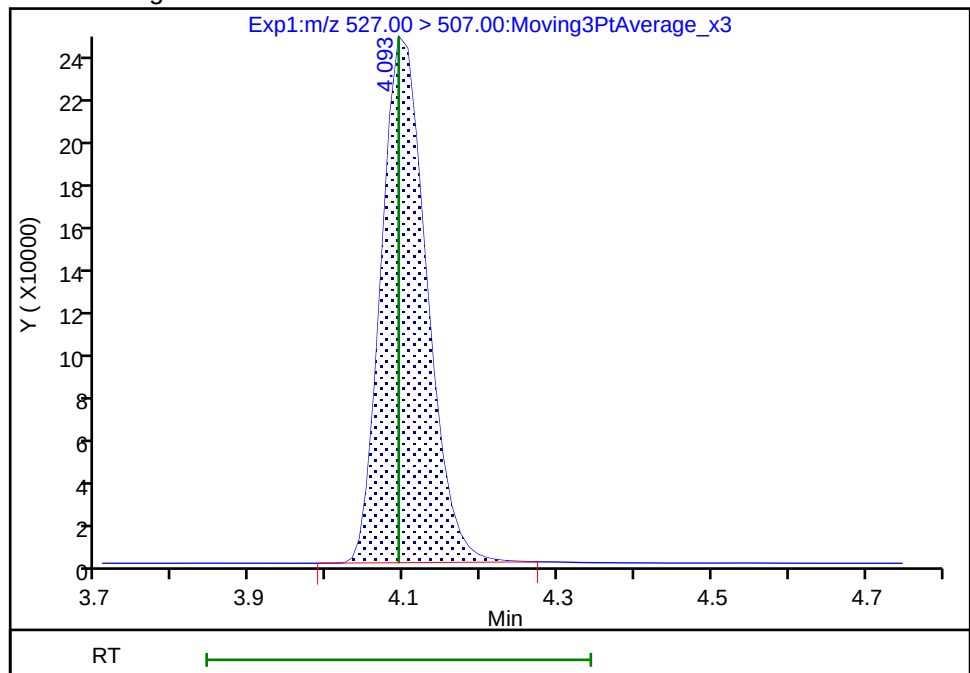
RT: 4.09
Area: 1022916
Amount: 2.334633
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 1014644
Amount: 2.339445
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

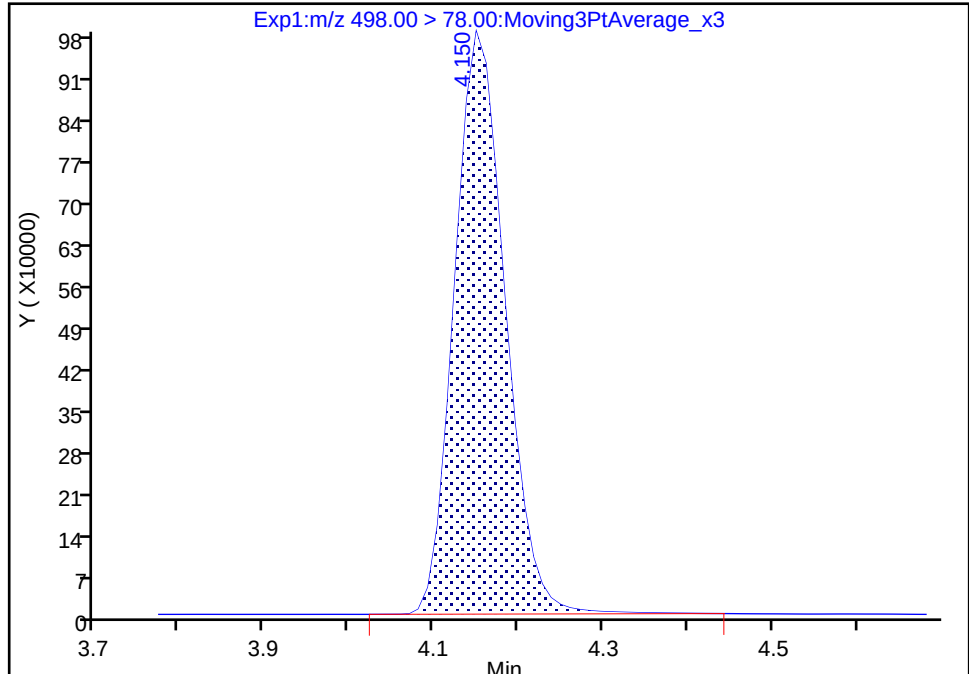
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

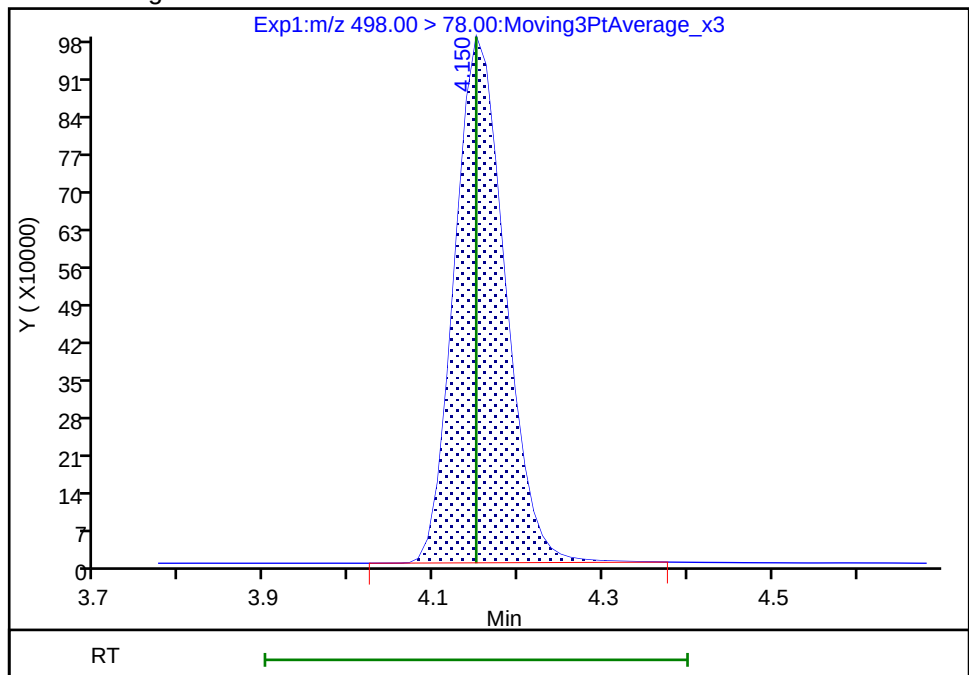
RT: 4.15
Area: 4106928
Amount: 2.428009
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 4094524
Amount: 2.457676
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

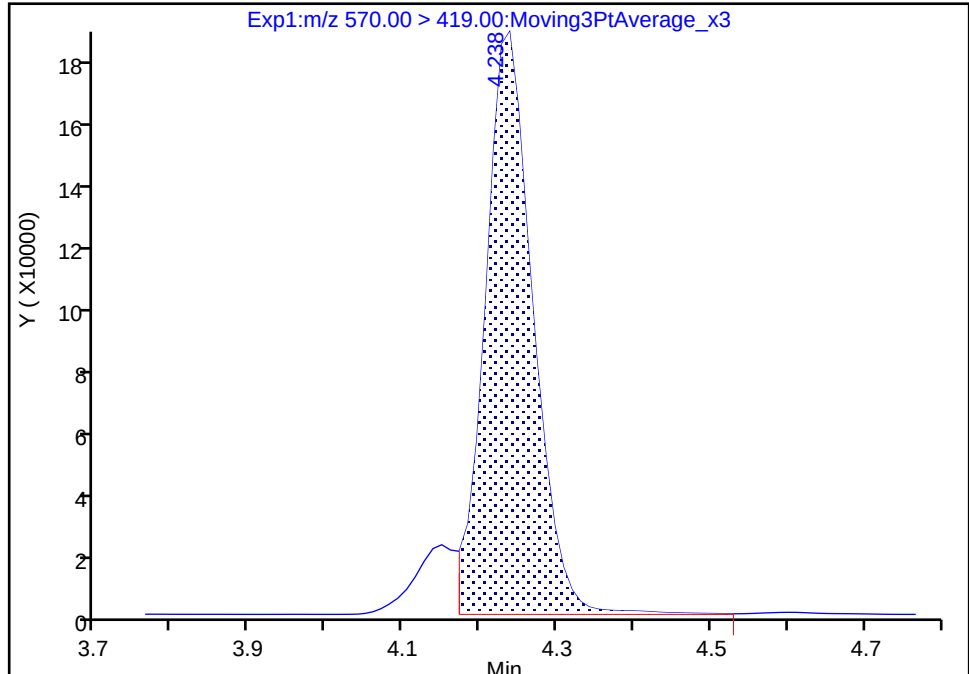
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

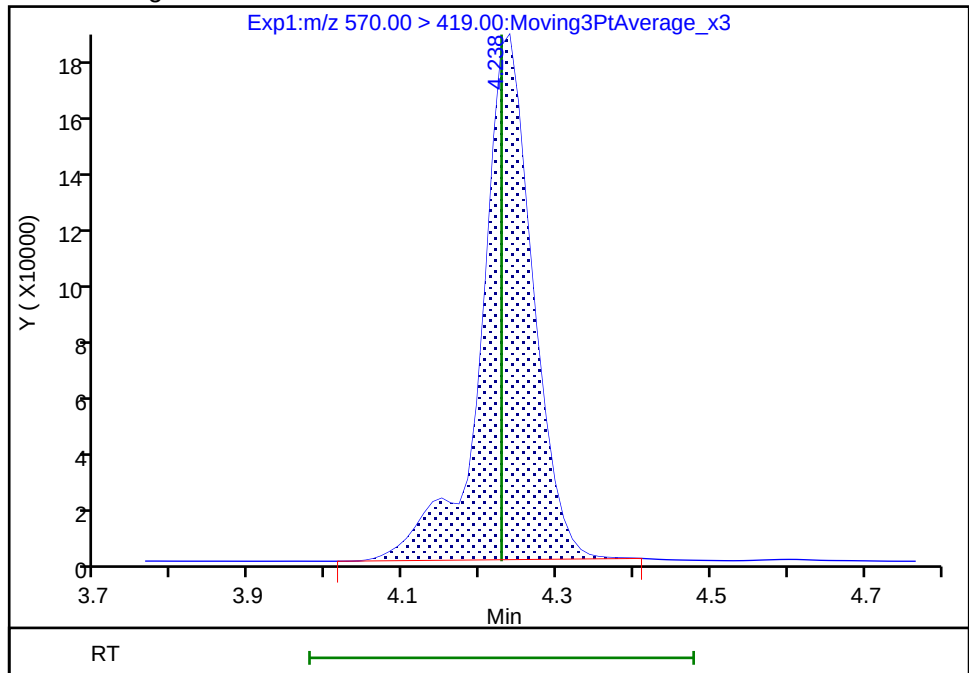
RT: 4.24
Area: 804661
Amount: 2.140771
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 873622
Amount: 2.456951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

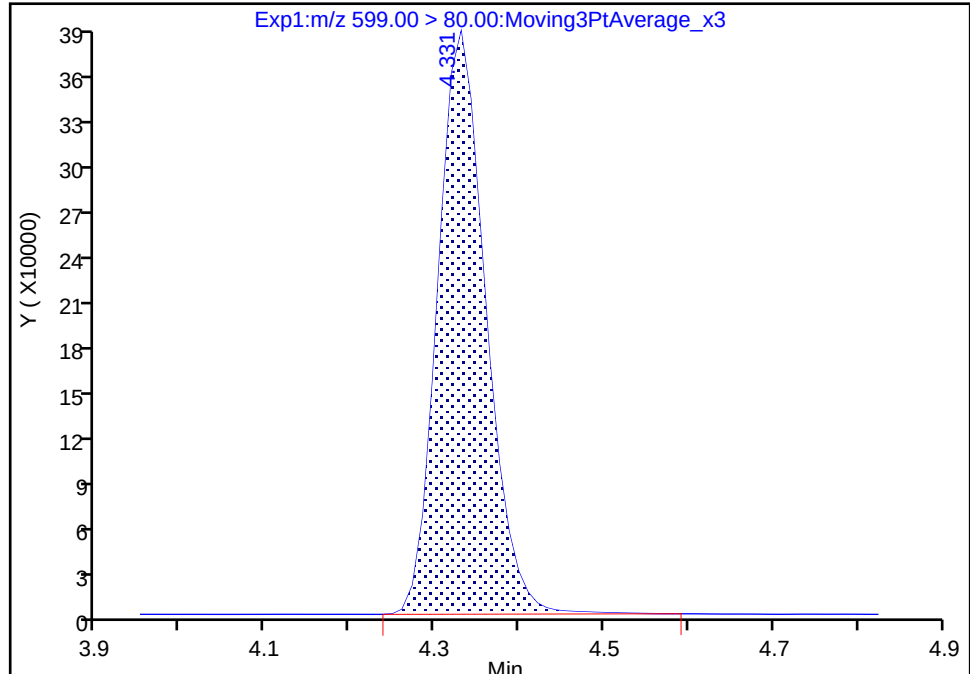
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

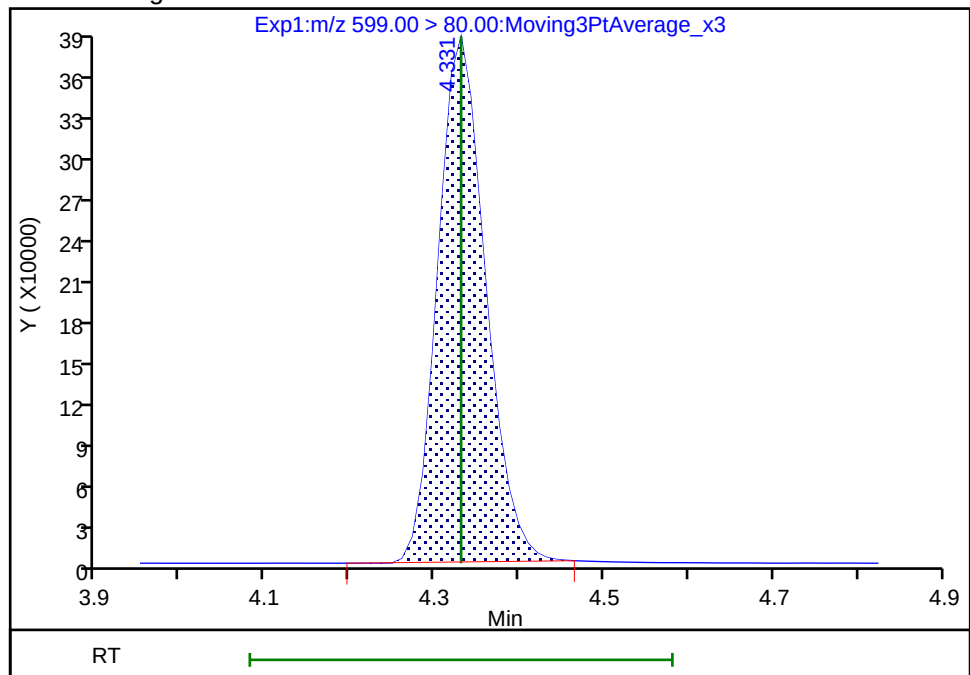
RT: 4.33
Area: 1514276
Amount: 2.351873
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 1496790
Amount: 2.350920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

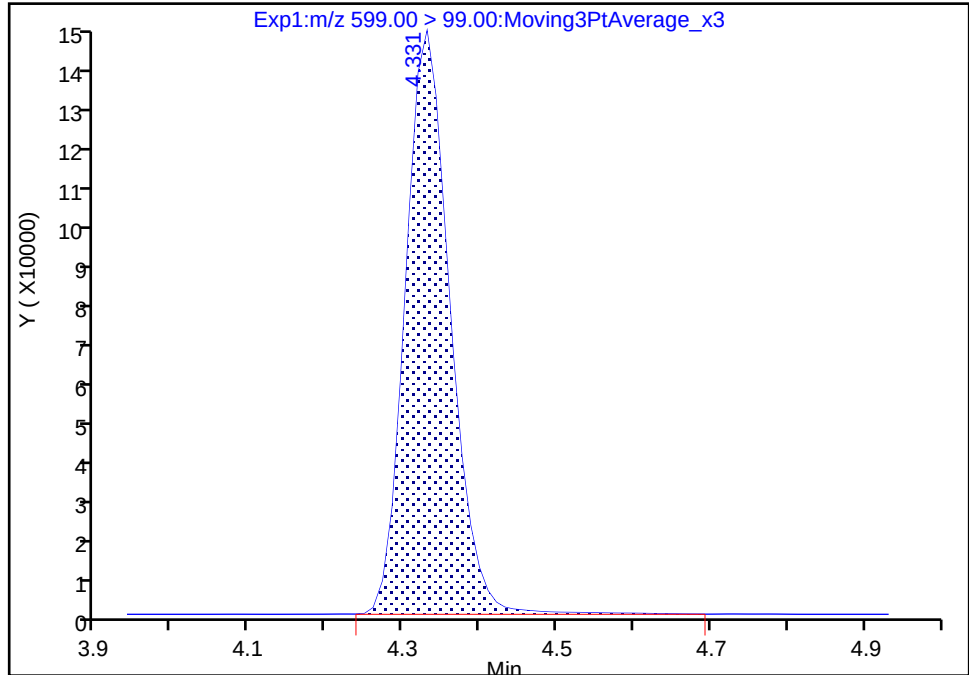
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

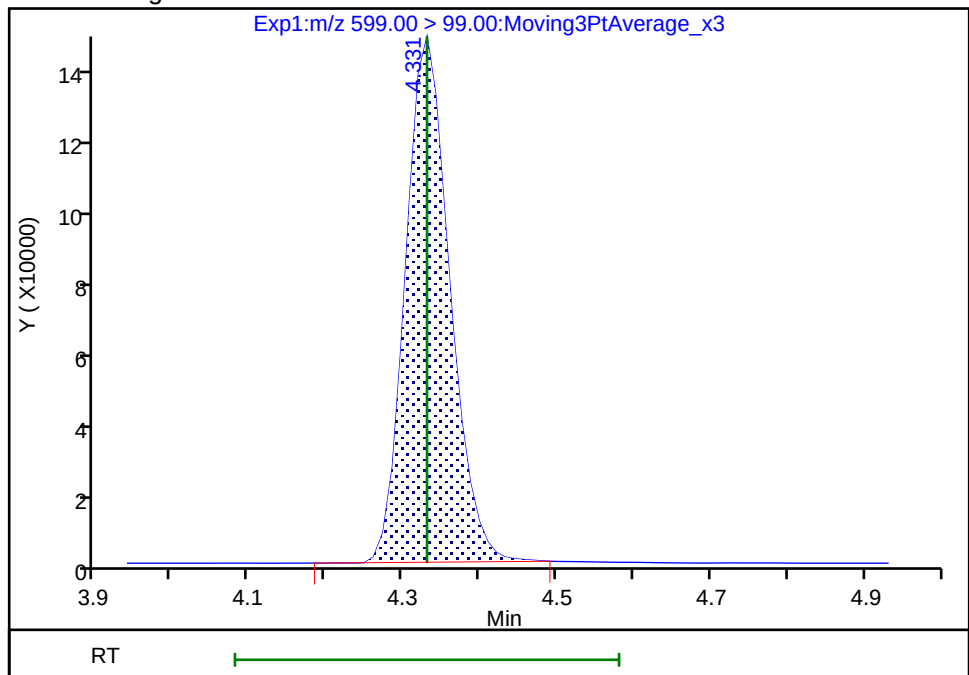
RT: 4.33
Area: 570570
Amount: 2.351873
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 562866
Amount: 2.350920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

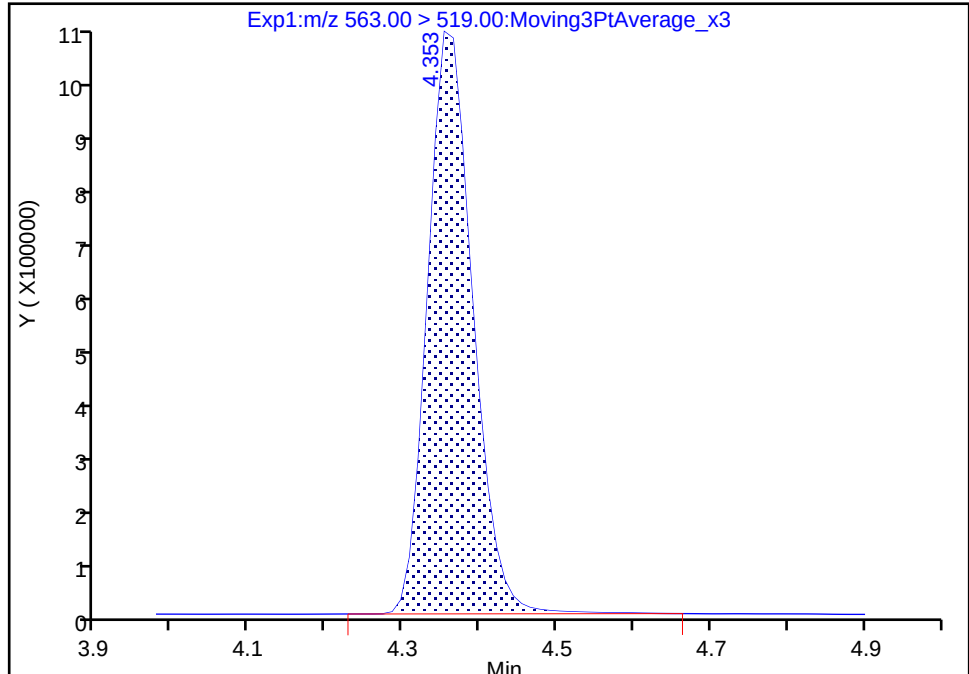
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

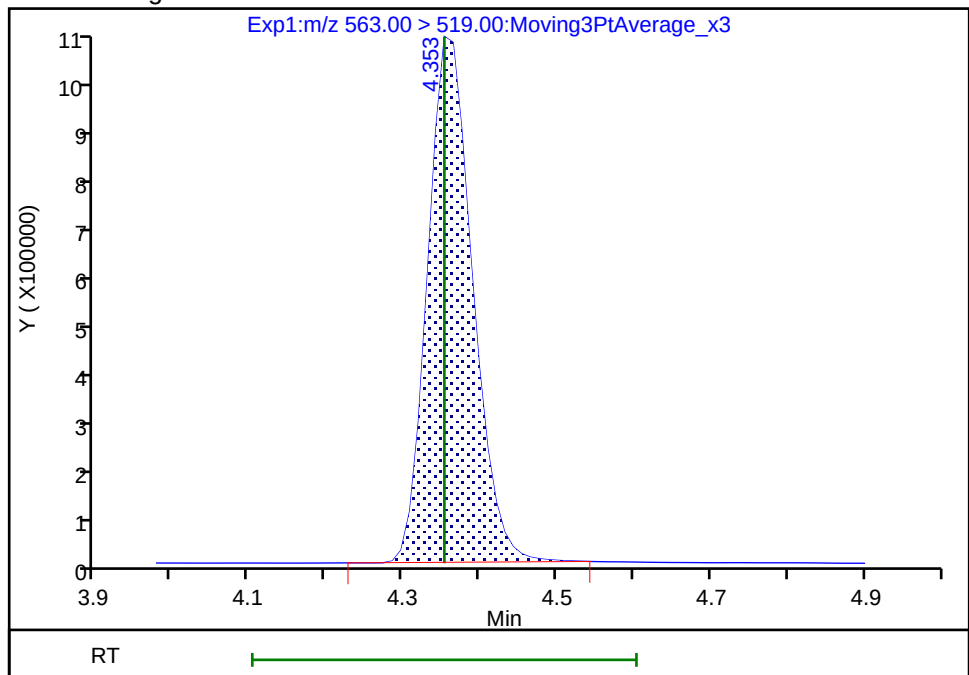
RT: 4.35
Area: 4342724
Amount: 2.330777
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 4311823
Amount: 2.366739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

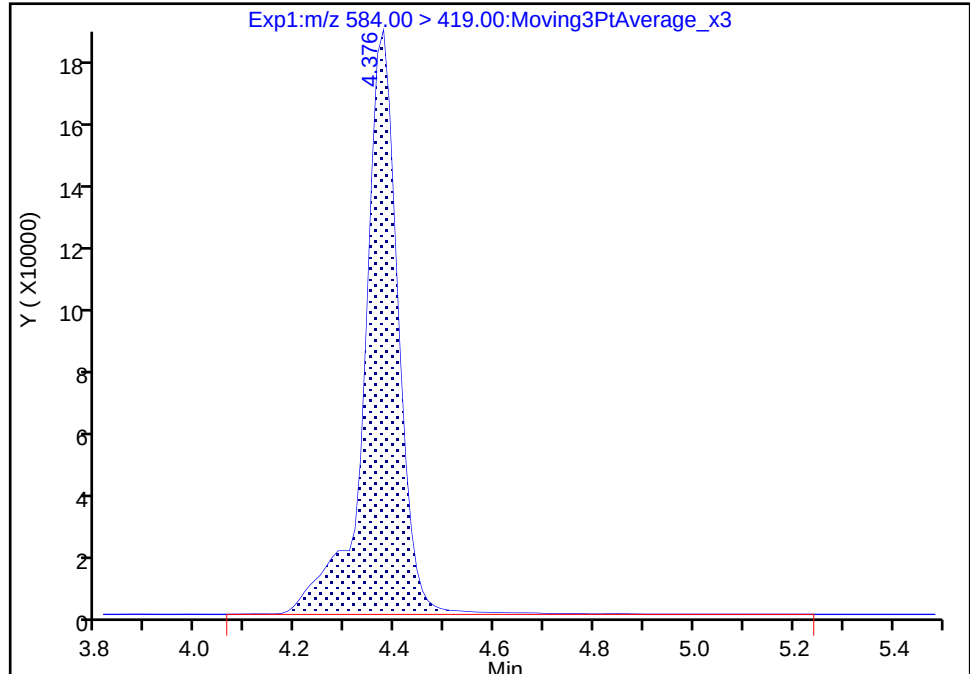
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

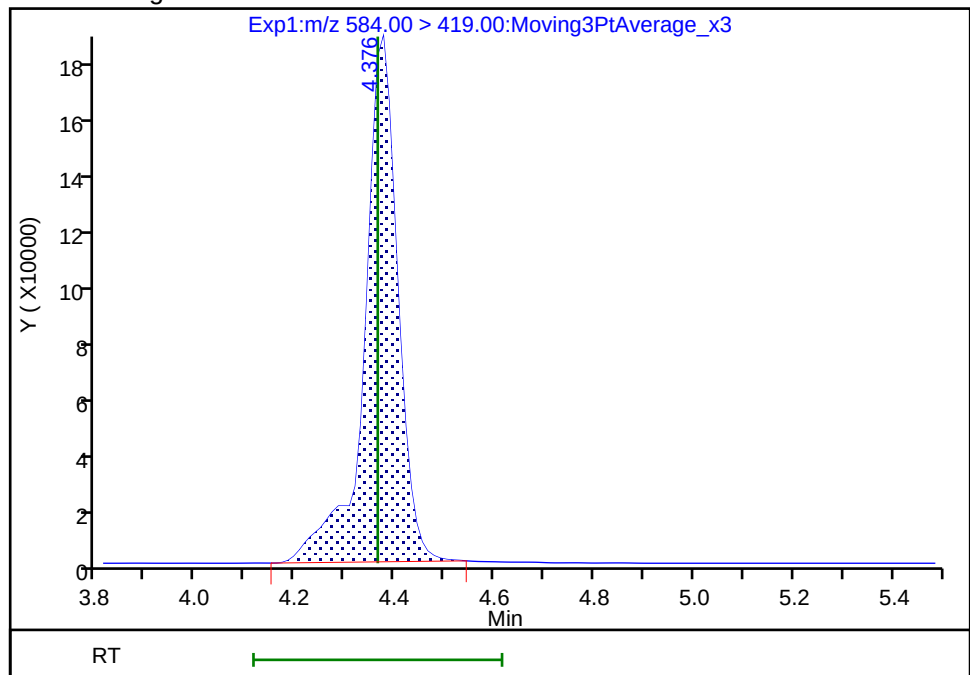
RT: 4.38
Area: 865426
Amount: 2.394972
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 848987
Amount: 2.386775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

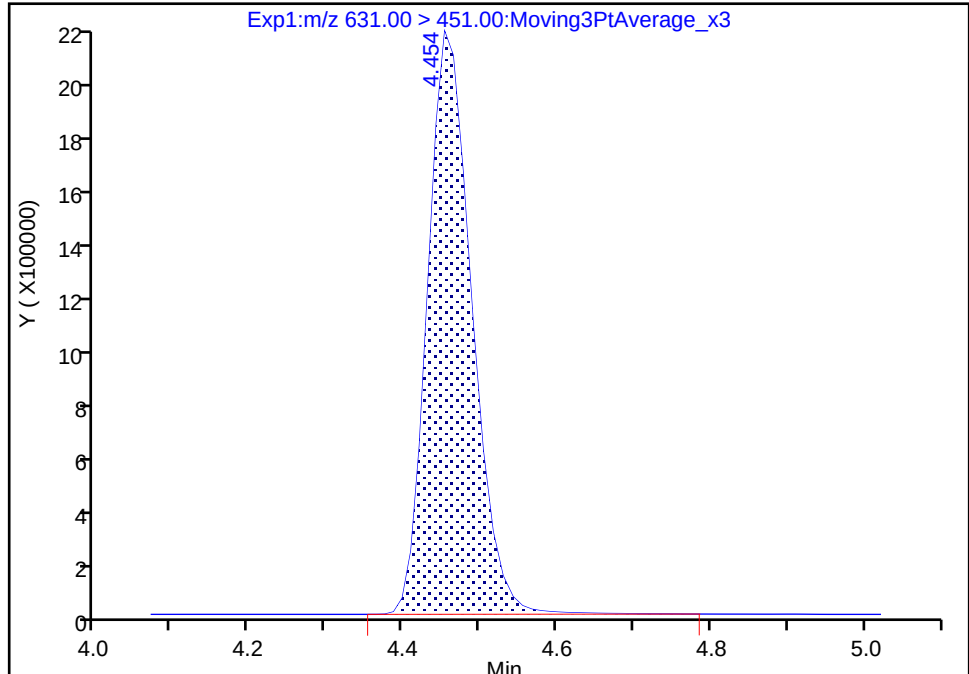
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

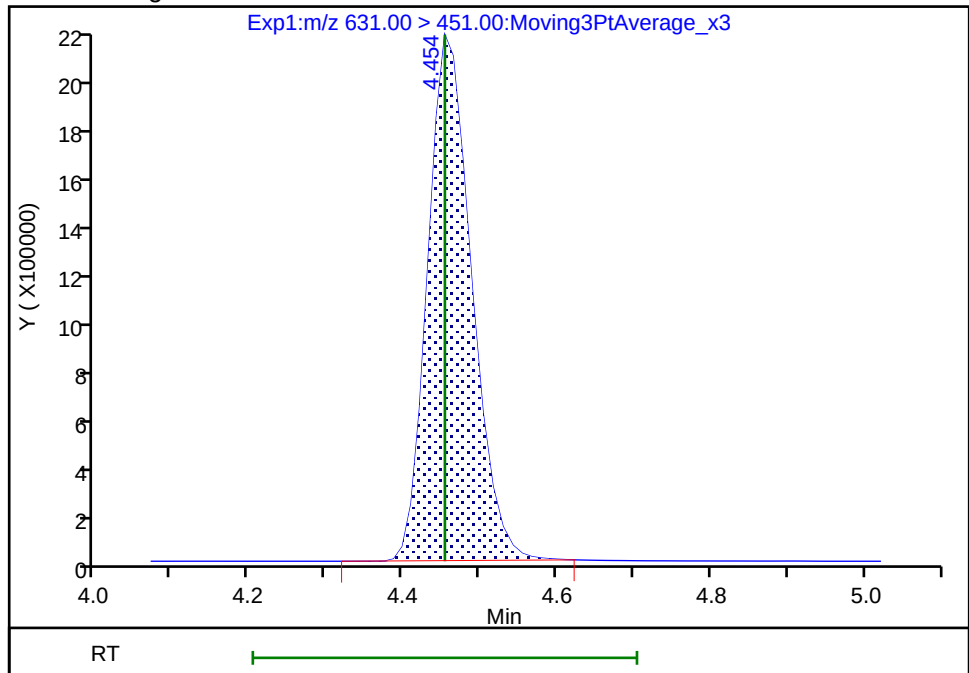
RT: 4.45
Area: 8707195
Amount: 2.232773
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 8644779
Amount: 2.287172
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

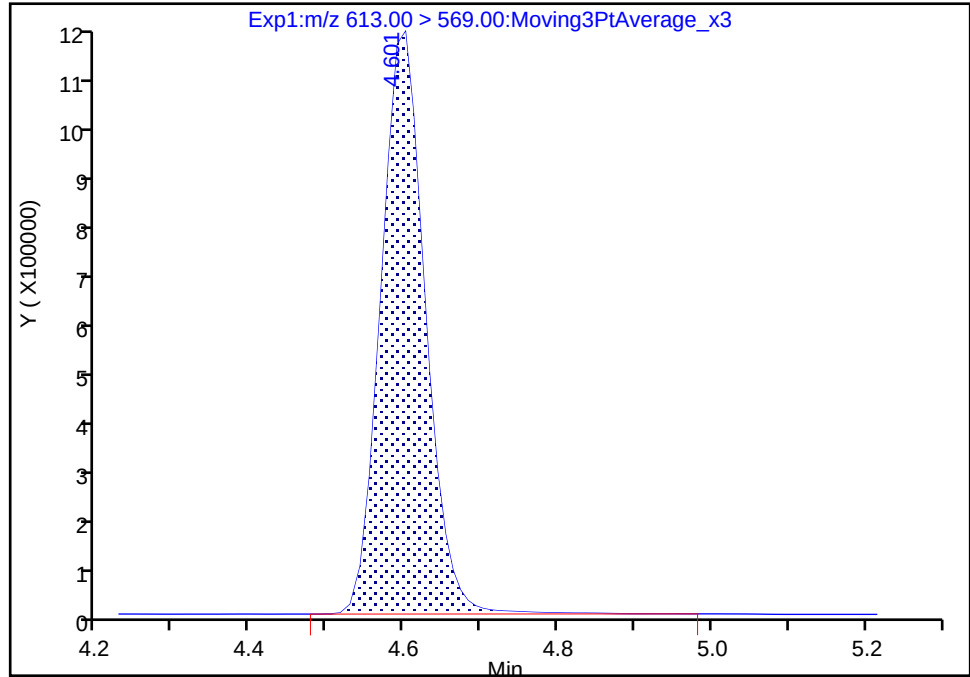
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

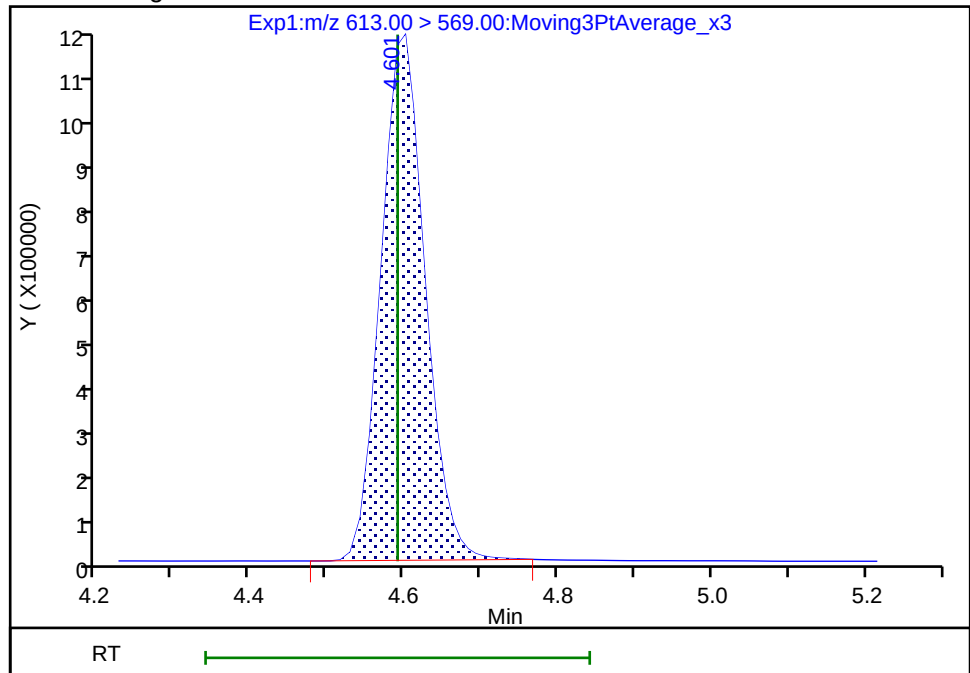
RT: 4.60
Area: 4561804
Amount: 2.236540
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 4520955
Amount: 2.275287
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

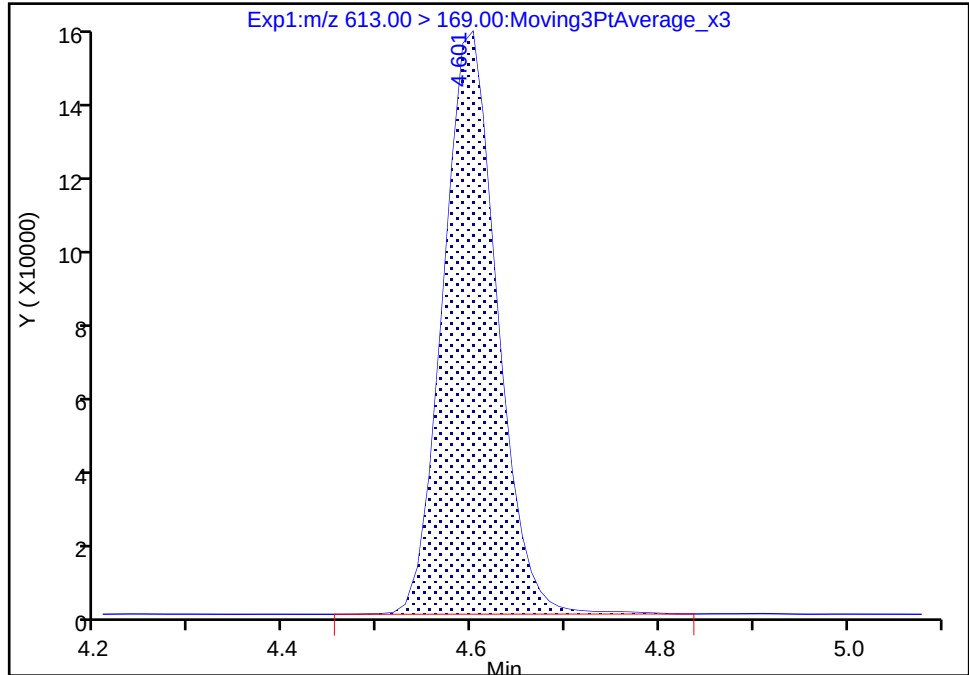
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

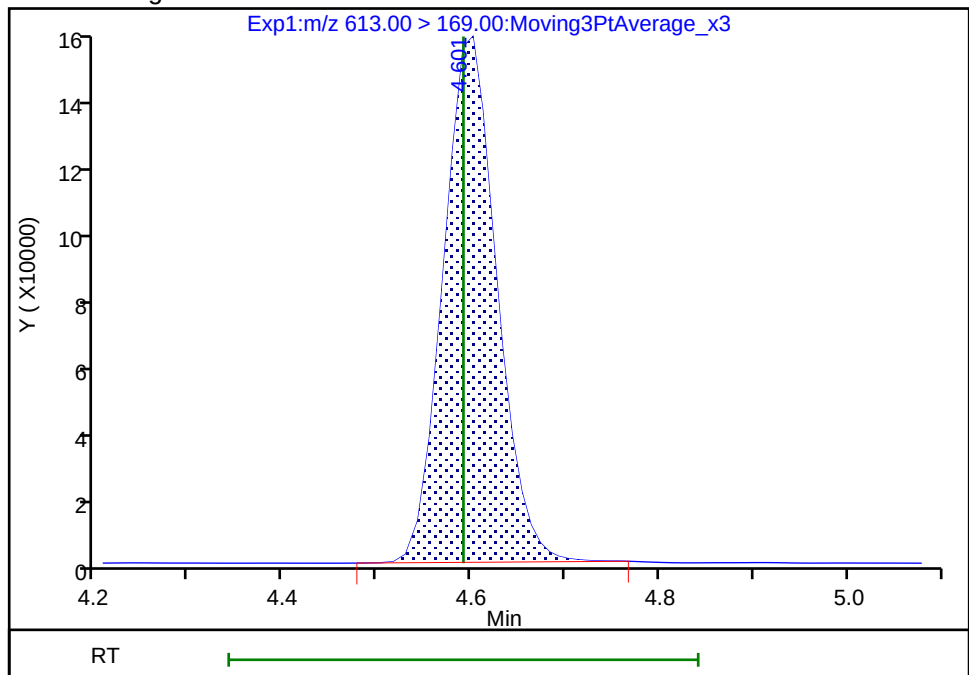
RT: 4.60
Area: 634336
Amount: 2.236540
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 628962
Amount: 2.275287
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

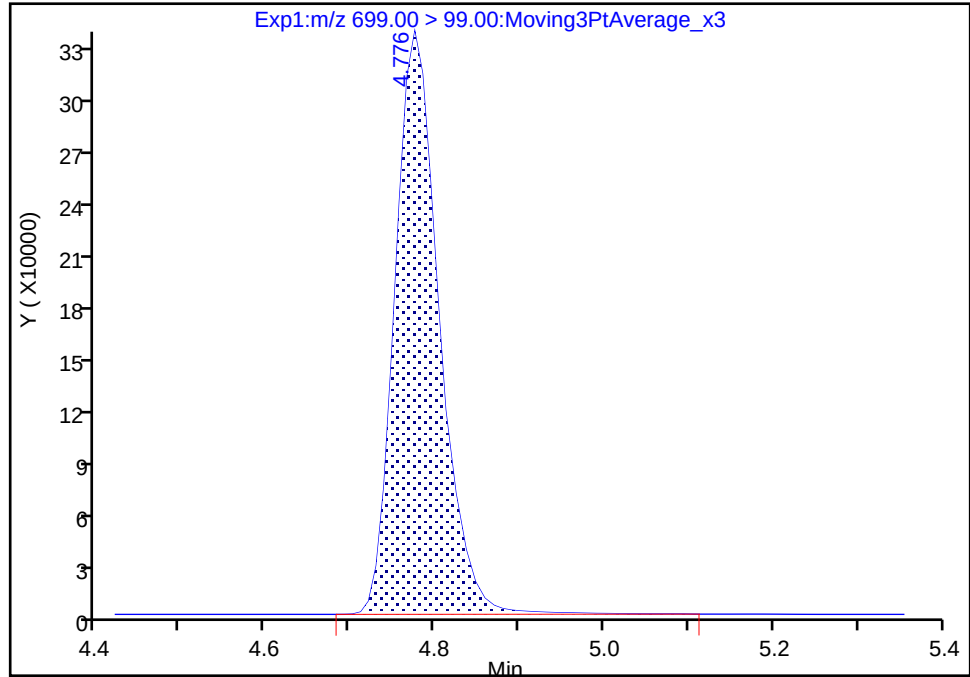
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

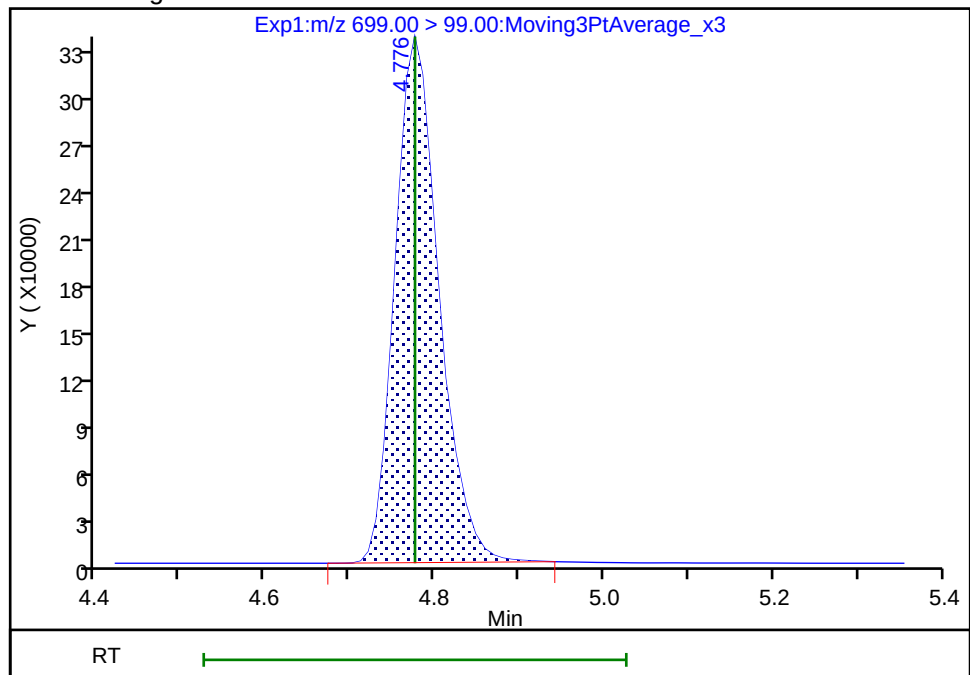
RT: 4.78
Area: 1228390
Amount: 2.299098
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 1217795
Amount: 2.338289
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

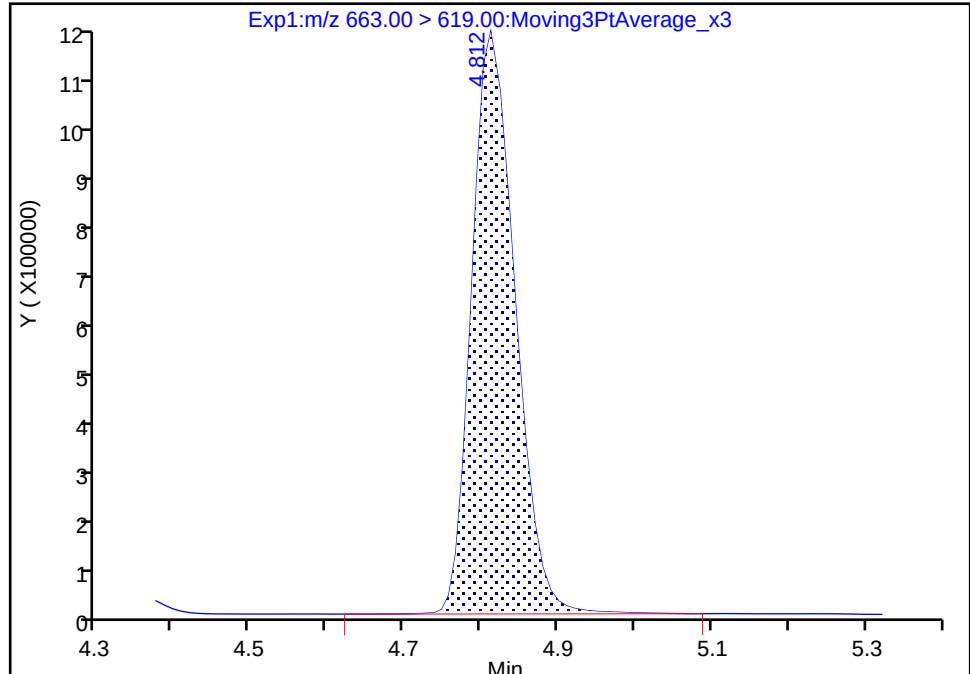
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

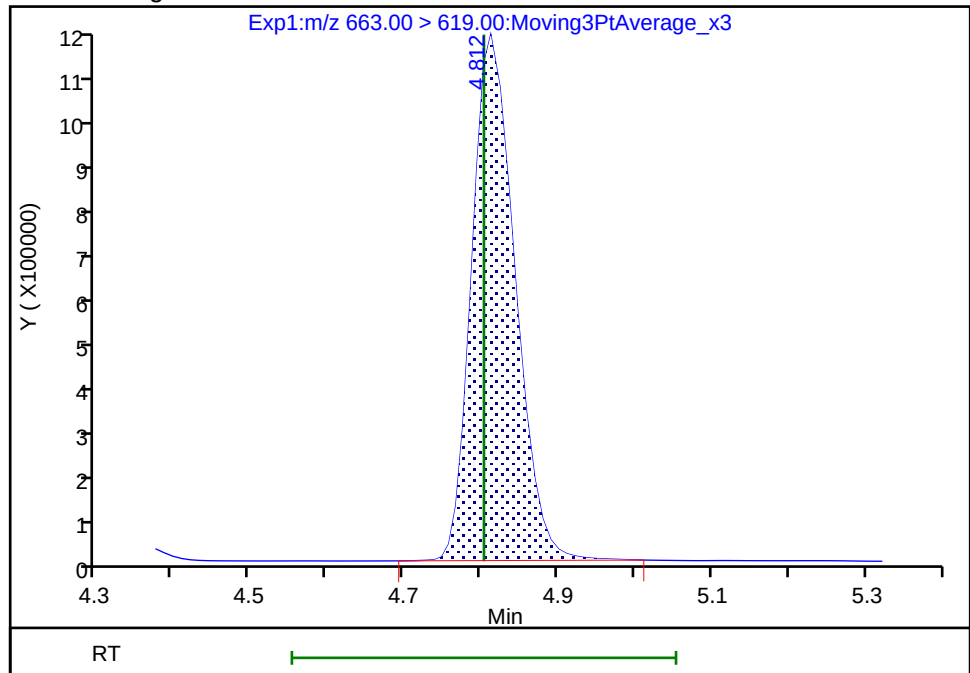
RT: 4.81
Area: 4593419
Amount: 2.351993
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 4574880
Amount: 2.407485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

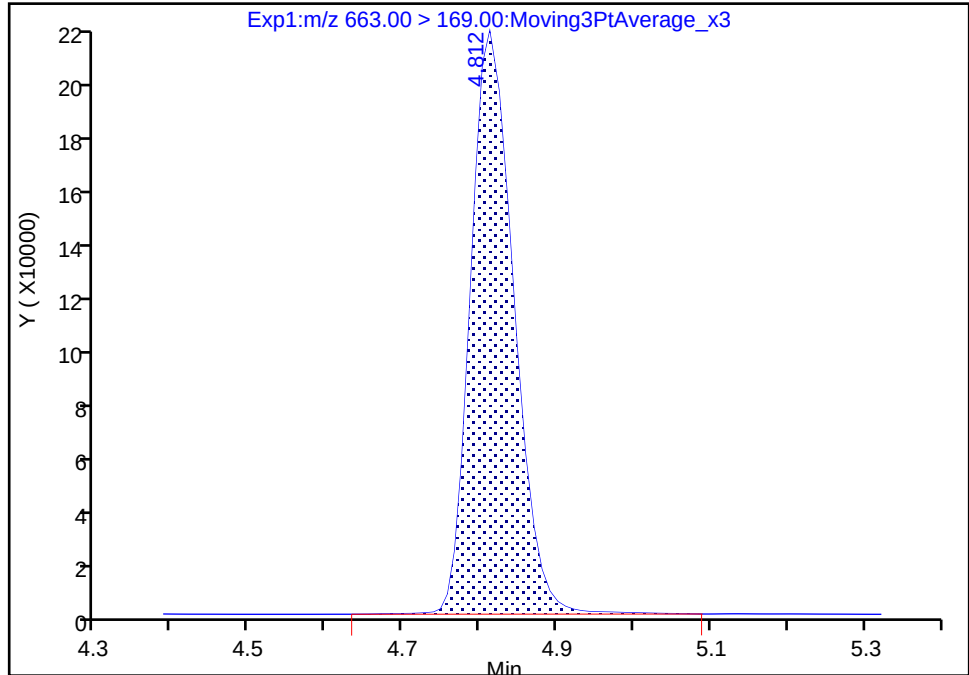
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

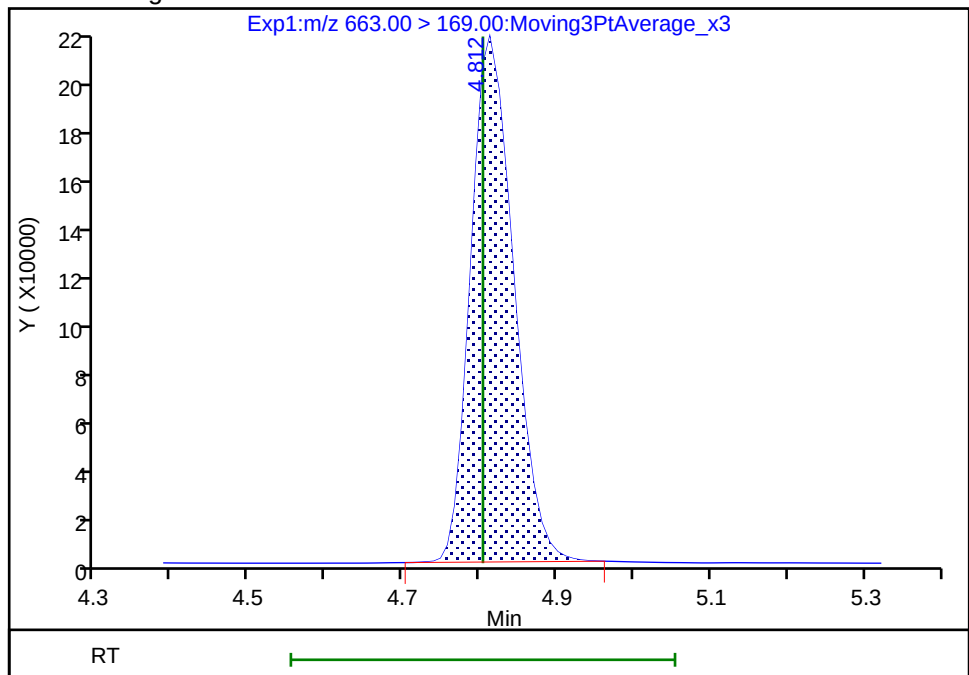
RT: 4.81
Area: 851410
Amount: 2.351993
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 841148
Amount: 2.407485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

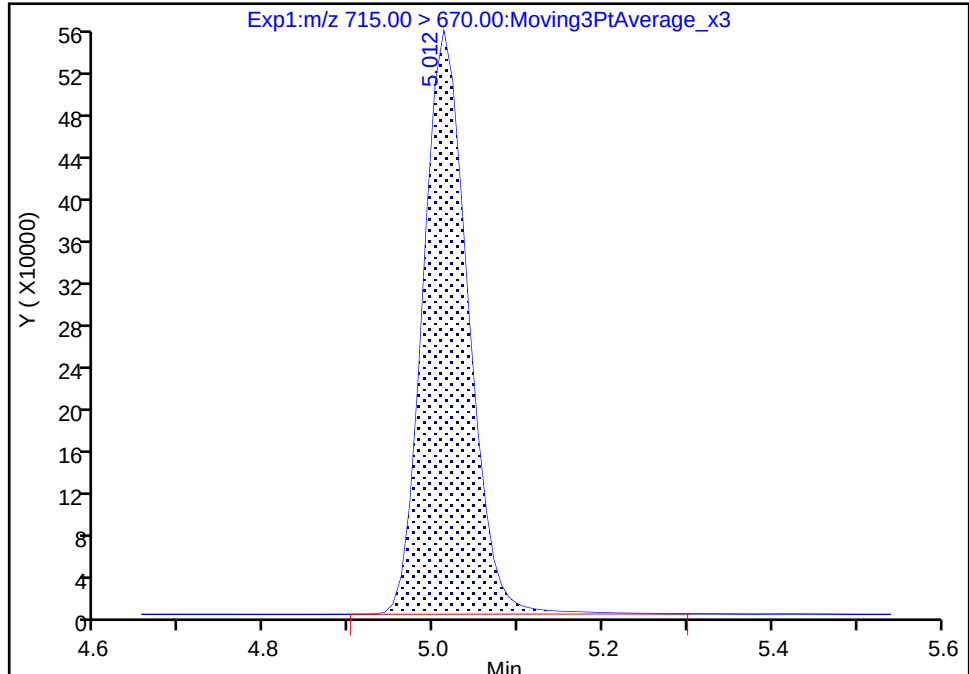
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

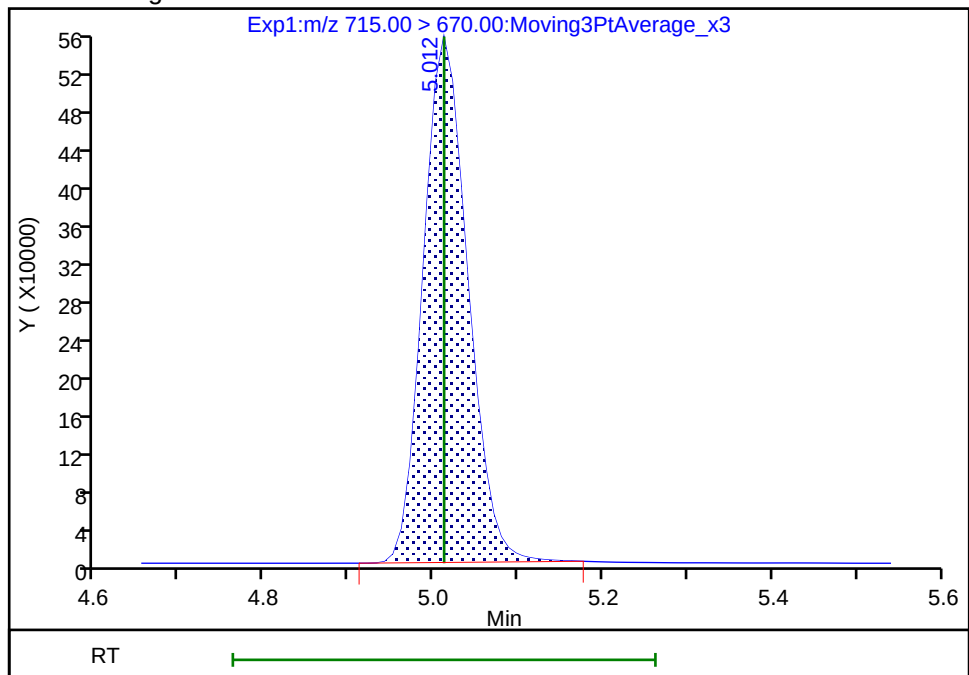
RT: 5.01
Area: 2033072
Amount: 1.303301
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 2014799
Amount: 1.286087
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

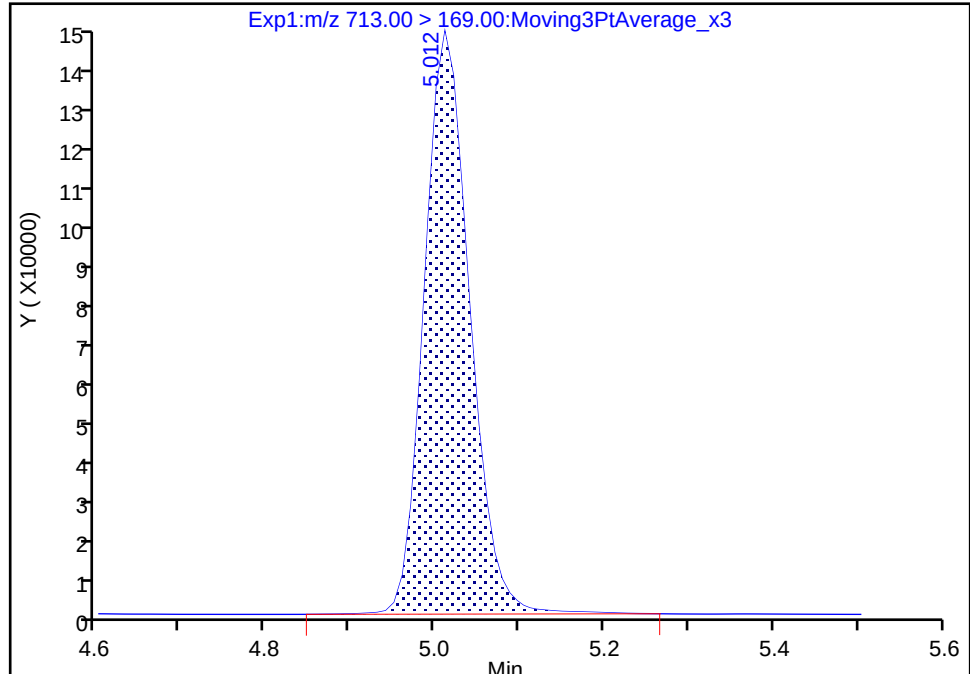
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

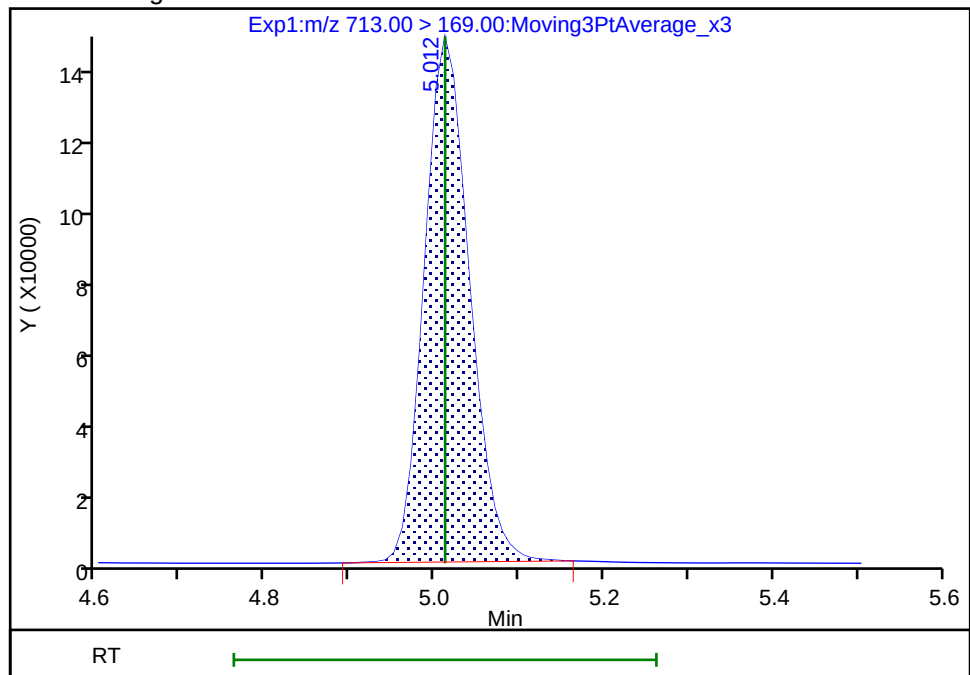
RT: 5.01
Area: 525519
Amount: 2.325898
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 519386
Amount: 2.353740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

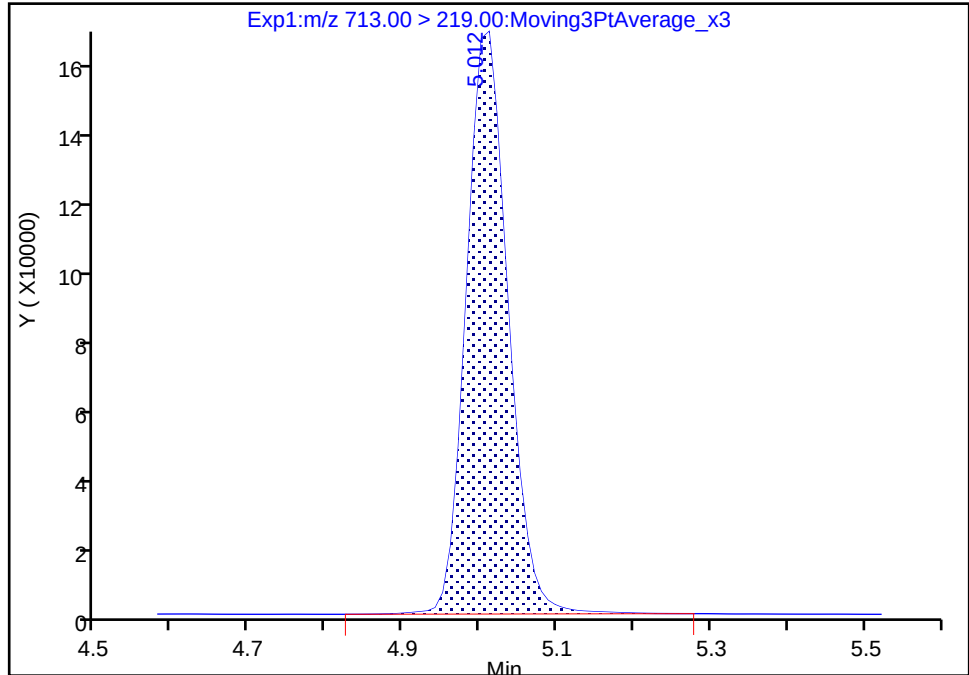
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

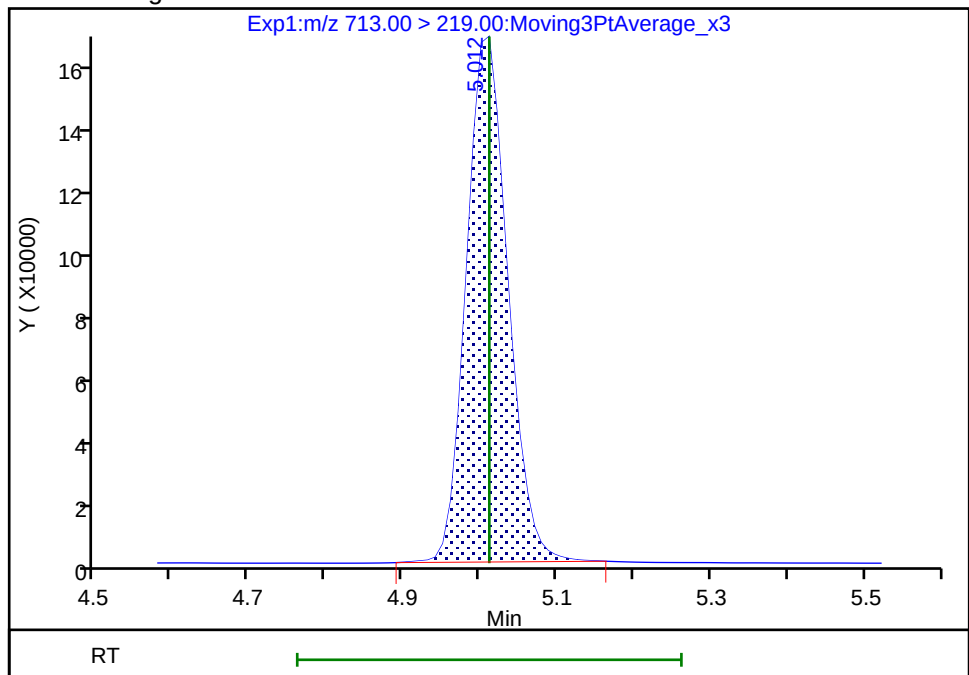
RT: 5.01
Area: 616529
Amount: 2.325898
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 610374
Amount: 2.353740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

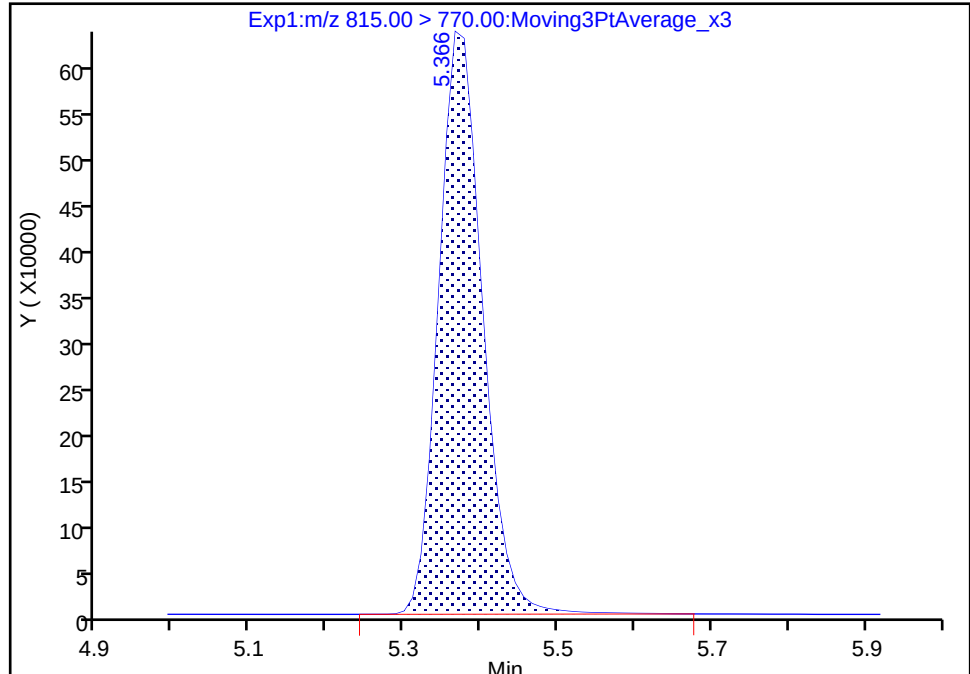
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

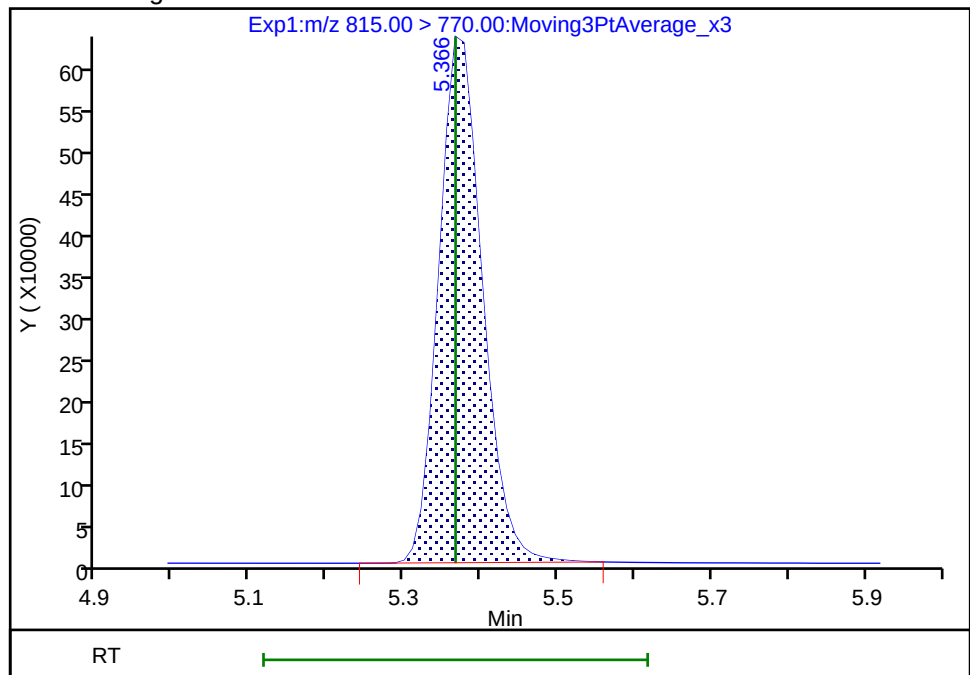
RT: 5.37
Area: 2515726
Amount: 1.303866
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2500657
Amount: 1.291152
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

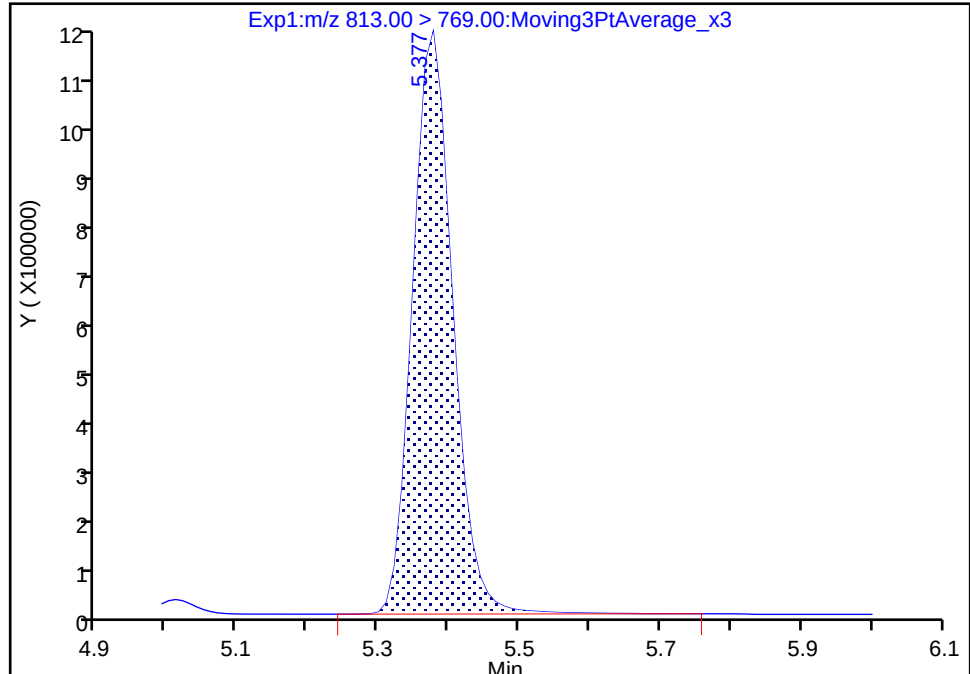
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

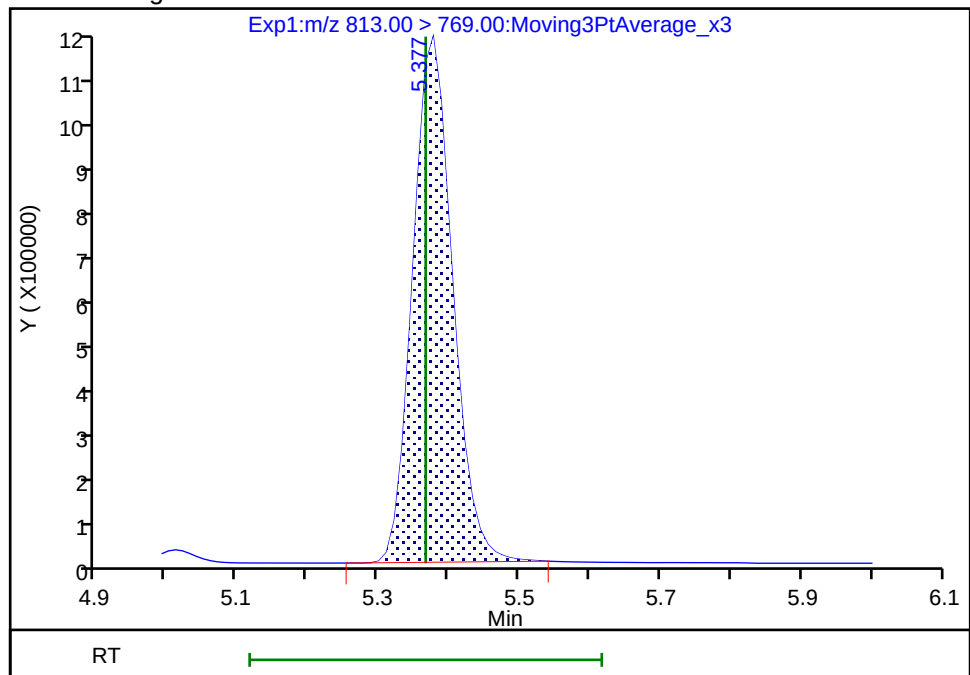
RT: 5.38
Area: 4654754
Amount: 2.502473
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 4609177
Amount: 2.488597
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

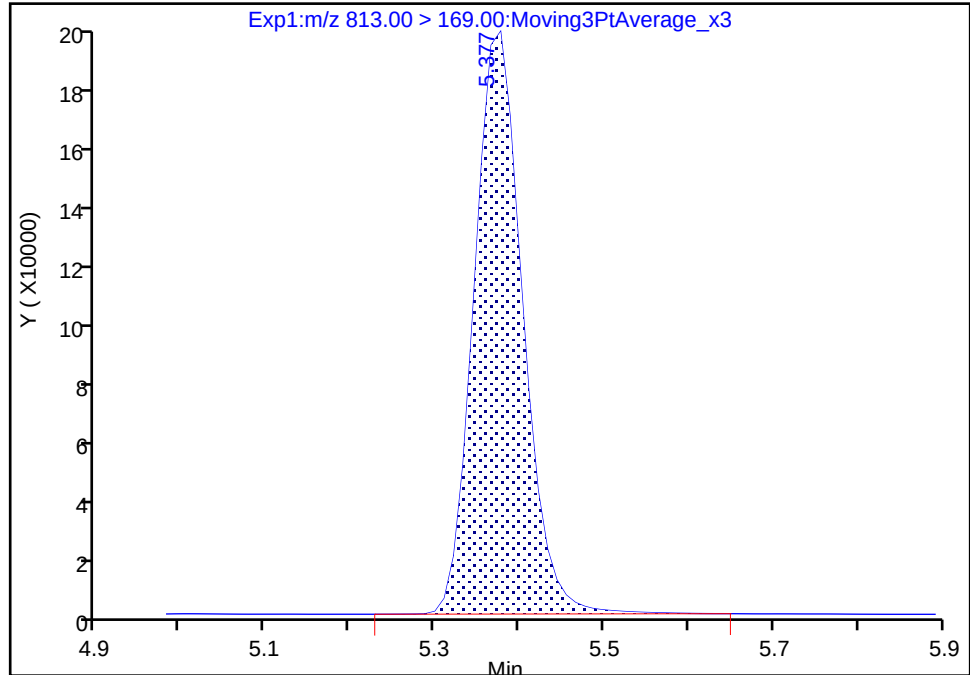
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

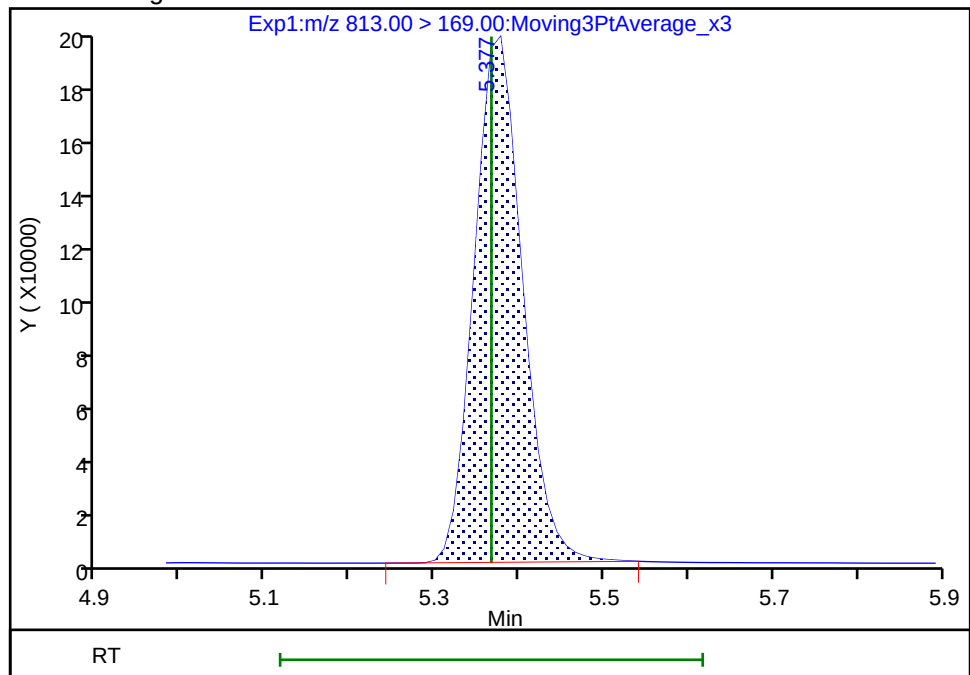
RT: 5.38
Area: 773083
Amount: 2.502473
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 767191
Amount: 2.488597
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

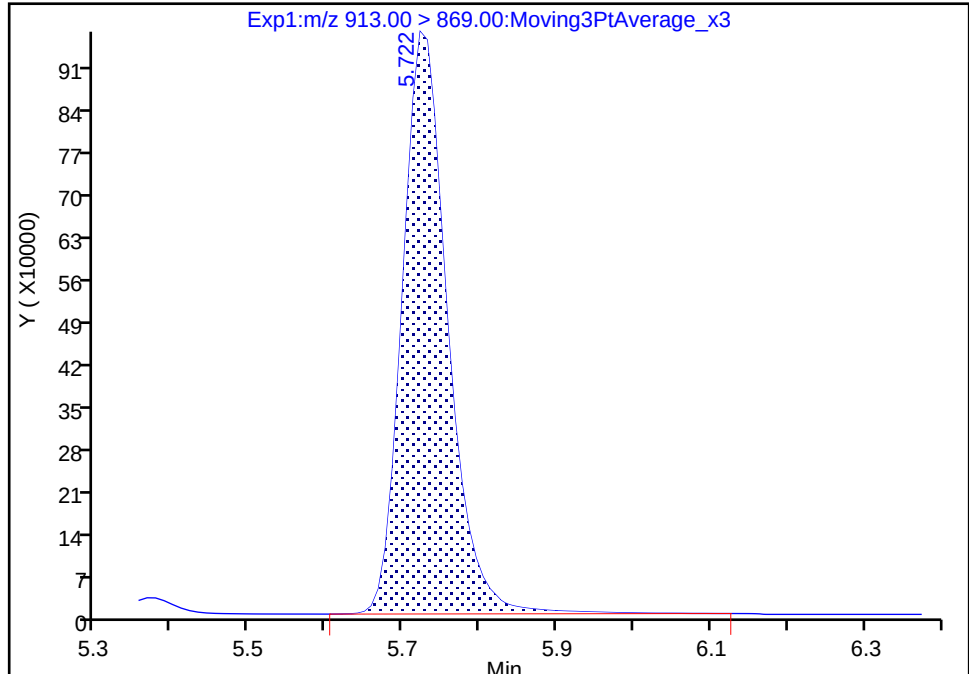
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

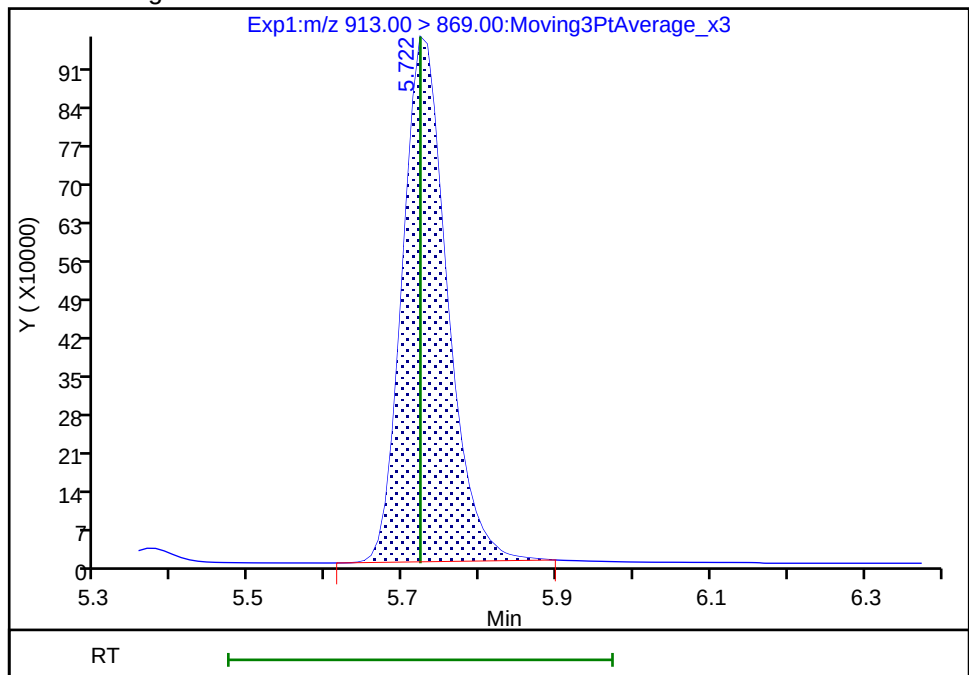
RT: 5.72
Area: 3948972
Amount: 2.362565
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 3885994
Amount: 2.358568
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:19:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

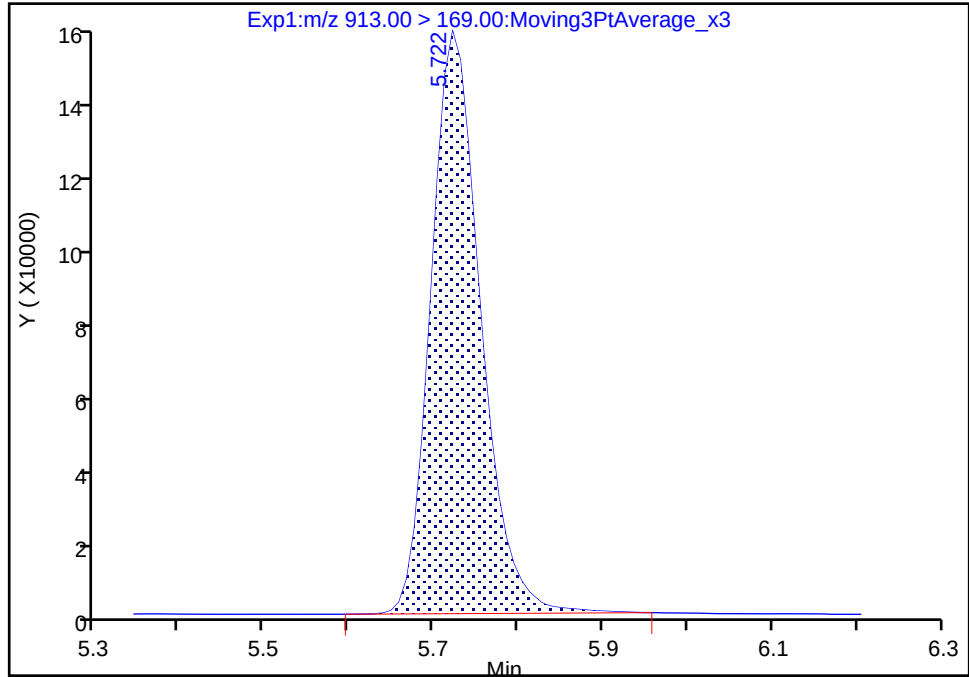
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

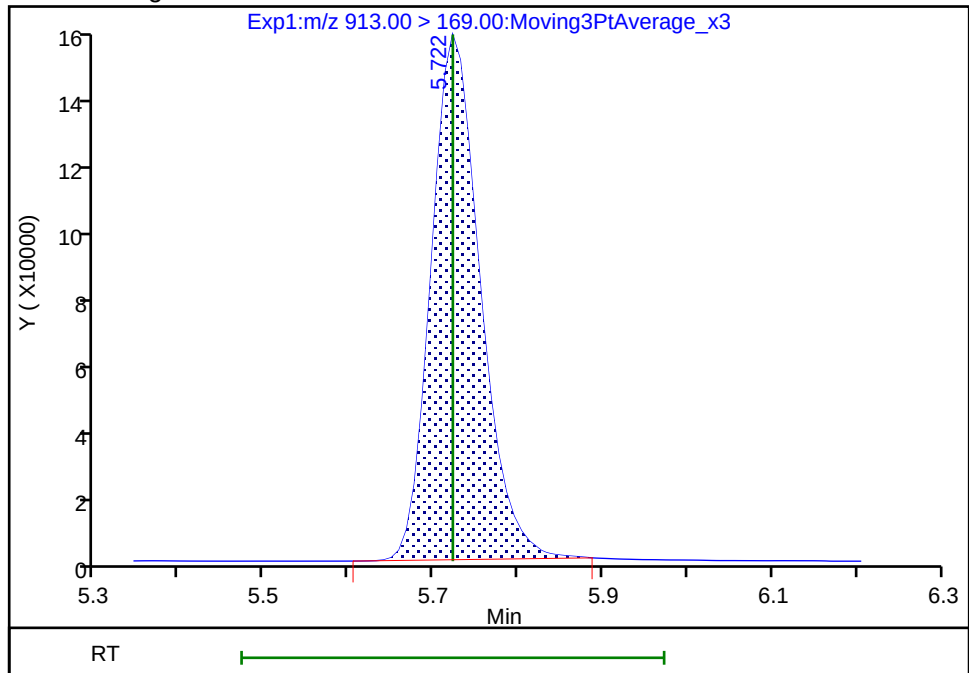
RT: 5.72
Area: 641202
Amount: 2.362565
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 634754
Amount: 2.358568
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:19:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Nov-2022 15:10:45 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:39:01 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:39:01

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	2.076	2.076	0.0	0.602	2467565	1.31		105	10900	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	18287579	8.98		89.8	1622	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	1859782	1.30		104	3825	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.387	2.387	0.0	1.000	14659532	9.04		90.4	369	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1920108	1.24		106	306030	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	15764131	8.34	Target=2.14	94.4	6290	M
298.90 > 99.00	2.400	2.400	0.0	1.000	7462883		2.11(1.07-3.21)	94.4	3673	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	3793564	8.55		91.5	7517	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	168186	1.23		105	209	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.725	2.725	0.0	0.790	1905245	1.27		102	3368	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	14928997	8.99	Target=13.44	89.9	1947	M
313.00 > 119.00	2.725	2.725	0.0	1.000	1139463		13.10(6.72-20.15)	89.9	1377	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	14151584	8.84	Target=2.98	94.3	4481	M
349.00 > 99.00	2.737	2.737	0.0	0.887	4699585		3.01(1.49-4.47)	94.3	3456	M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	2790710	9.46		94.6	3137	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										M
287.00 > 169.00	2.835	2.835	0.0	0.822	349067	1.32		106	2058	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.088	3.088	0.0	0.896	1417084	1.25		106	3116	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	11438488	8.46	Target=3.57	92.9	1881	M
399.00 > 99.00	3.088	3.088	0.0	1.000	3266390		3.50(1.78-5.35)	92.9	1771	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	1969787	1.28		102	3184	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.088	3.099	-0.011	1.000	15384783	8.97	Target=3.93	89.7	1713	M
363.00 > 169.00	3.088	3.099	-0.011	1.000	4138402		3.72(1.96-5.89)	89.7	2990	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	34921387	7.63	Target=3.08	81.0	2972	M
377.00 > 85.00	3.132	3.132	0.0	0.832	12293064		2.84(1.54-4.62)	81.0	2852	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	221871	1.17		98.5	664	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.439	3.439	0.0	1.000	3743844	9.47		99.9	1951	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.430	3.439	-0.009	0.911	10171074	8.76	Target=5.16	92.0	3706	M
449.00 > 99.00	3.430	3.439	-0.009	0.911	1989808		5.11(2.58-7.74)	92.0	4062	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2203793	1.27		102	5888	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2091291	1.25			3642	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	16977289	9.01	Target=2.82	90.1	978	M
413.00 > 169.00	3.448	3.448	0.0	1.000	6260421		2.71(1.41-4.23)	90.1	2636	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	993714	1.29		108	883	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	8534676	8.44	Target=5.01	90.9	926	M
499.00 > 99.00	3.764	3.764	0.0	1.000	1770034		4.82(2.50-7.51)	90.9	964	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	16342622	9.36	Target=8.49	93.6	1971	M
463.00 > 169.00	3.783	3.783	0.0	1.000	1938179		8.43(4.25-12.74)	93.6	2313	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2102974	1.25		100.0	6336	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	19485090	8.40		90.1	3617	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.051	4.050	0.001	1.076	6831873	8.95	Target=2.60	93.2	2750	M
549.00 > 99.00	4.051	4.050	0.001	1.076	2652769		2.58(1.30-3.90)	93.2	3358	M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2229691	1.30		104	3838	

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	4.081	4.081	0.0	1.000	16688874	8.63	Target=10.03	86.3	2787	M
513.00 > 169.00	4.081	4.081	0.0	1.000	1764763		9.46(5.02-15.05)	86.3	3491	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	277266	1.20		99.8	889	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	3431863	9.17		95.7	2819	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	14828965	9.27		92.7	11896	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1914897	1.36		109	2590	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	478582	1.37		110	204	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.228	0.0	1.000	3297027	10.0		100.0	1849	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	5548668	9.21	Target=2.58	95.5	2308	M
599.00 > 99.00	4.320	4.331	-0.011	1.148	2036543		2.72(1.29-3.86)	95.5	2355	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.353	4.353	0.0	1.263	1967361	1.25		100	2095	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	14168517	8.93	Target=10.10	89.3	2525	M
563.00 > 169.00	4.353	4.353	0.0	1.000	1502685		9.43(5.05-15.15)	89.3	1563	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.000	2992748	9.39		93.9	1373	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	444955	1.29		104	611	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.454	4.454	0.0	1.183	28587798	7.99		84.8	2959	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	15612916	8.76	Target=7.41	87.6	840	M
613.00 > 169.00	4.591	4.591	0.0	1.000	2225311		7.02(3.70-11.11)	87.6	3131	M
D 36 13C2 PFDaA										M
615.00 > 570.00	4.591	4.591	0.0	1.332	2103698	1.32		105	3008	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	2140218	9.51		98.7	1929	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.767	4.776	-0.009	1.266	2258006	8.85	Target=0.51	91.5	2977	M
699.00 > 99.00	4.767	4.776	-0.009	1.266	4532176		0.50(0.25-0.76)	91.5	4479	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.803	4.804	-0.001	1.046	14753486	8.65	Target=5.40	86.5	847	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	2874269		5.13(2.70-8.10)	86.5	2161	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.002	5.012	-0.010	1.000	1813608	9.29	Target=0.90	92.9	1869	M
713.00 > 219.00	5.002	5.012	-0.010	1.000	2156307		0.84(0.45-1.35)	92.9	3154	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.002	5.012	-0.010	1.451	1782548	1.29		103	2048	M

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	5.366	5.367	-0.001	1.000	16164958	10.0	Target=5.85	100	978	M
813.00 > 169.00	5.366	5.367	-0.001	1.000	2805404		5.76(2.93-8.78)	100	2198	M
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.366	5.367	-0.001	1.557	2191999	1.28		103	2301	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	13617092	9.43	Target=6.30	94.3	603	M
913.00 > 169.00	5.713	5.722	-0.009	1.065	2220967		6.13(3.15-9.46)	94.3	888	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d

Injection Date: 18-Nov-2022 15:10:45

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

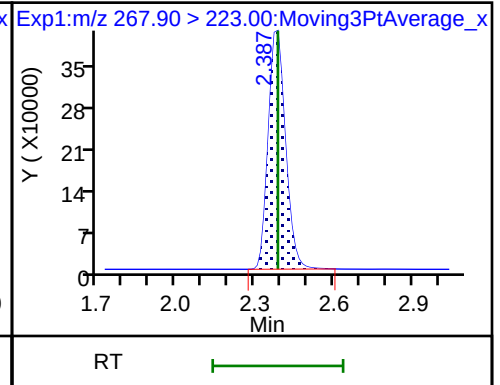
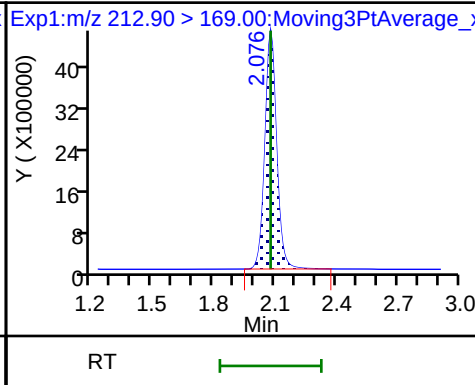
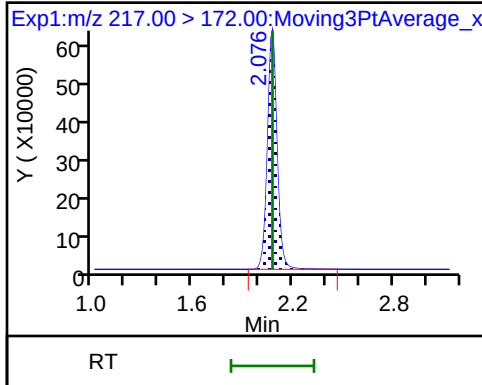
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

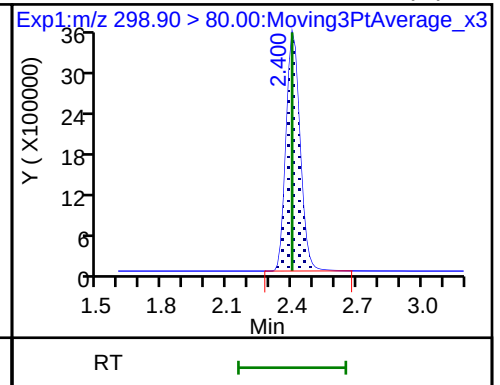
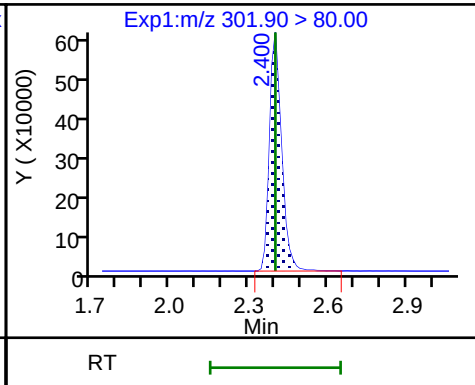
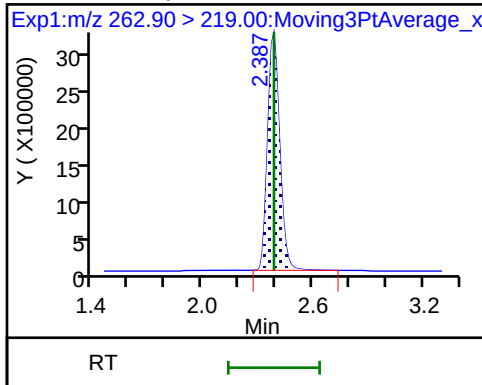
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

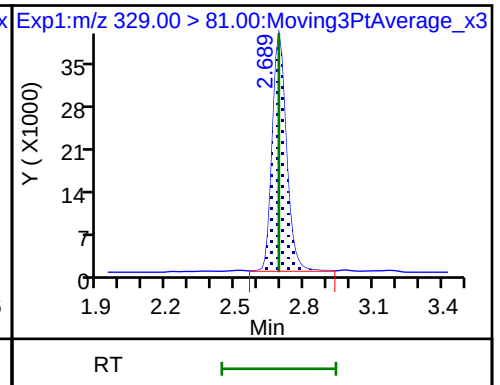
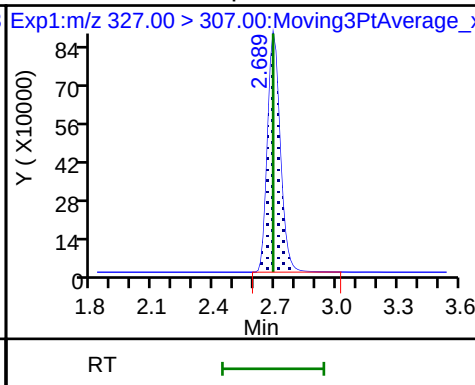
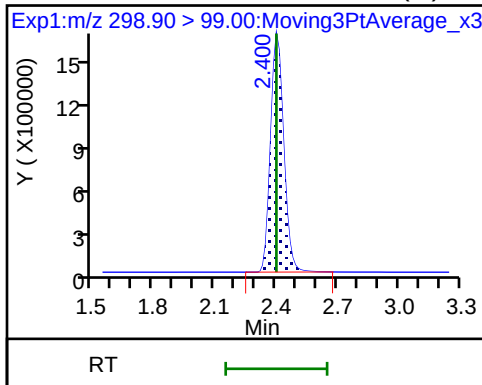
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

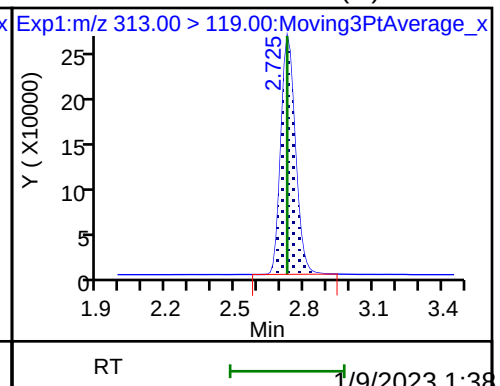
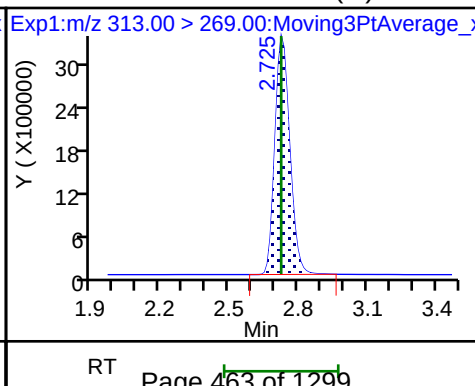
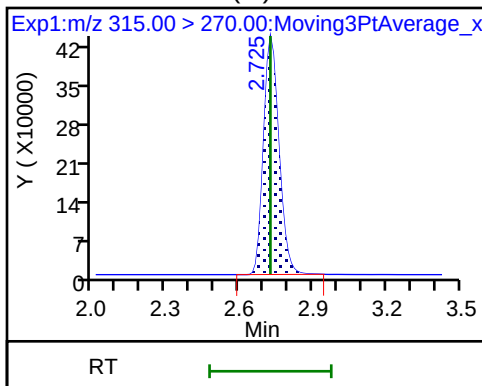
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

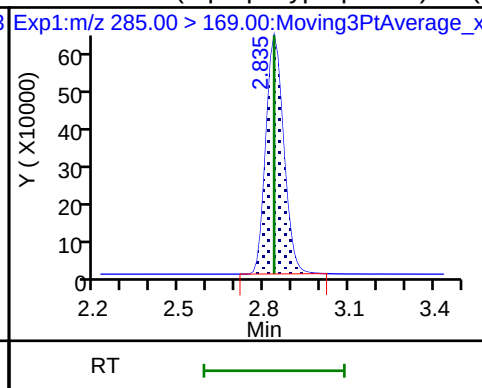
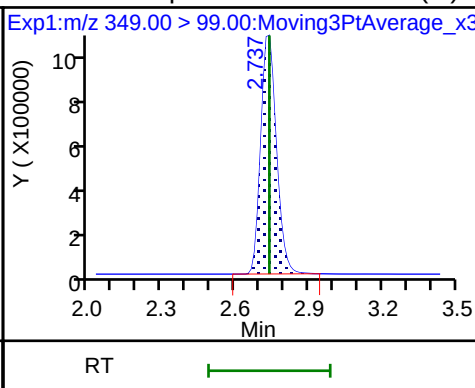
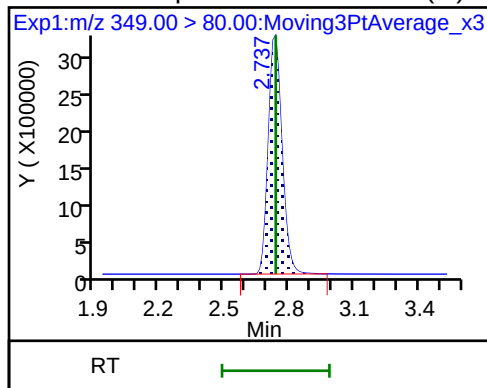
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

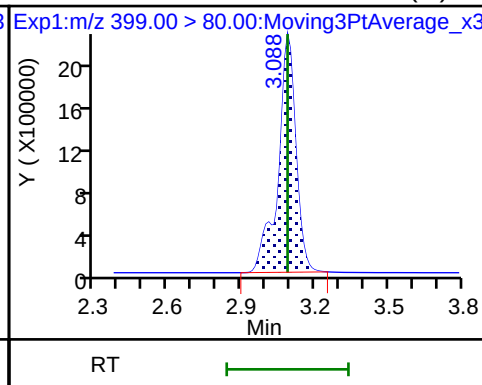
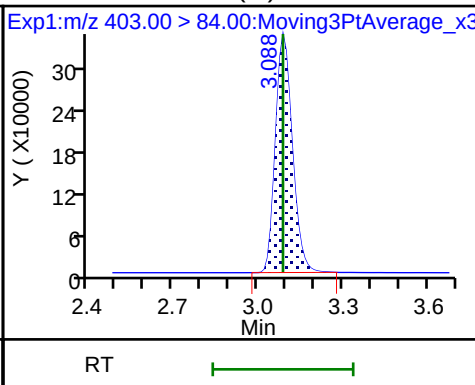
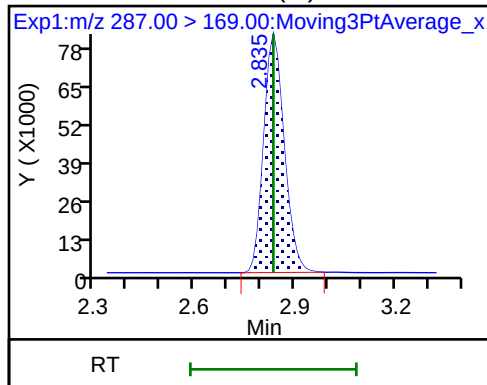
67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA (M)

D 11 18O2 PFHxS (M)

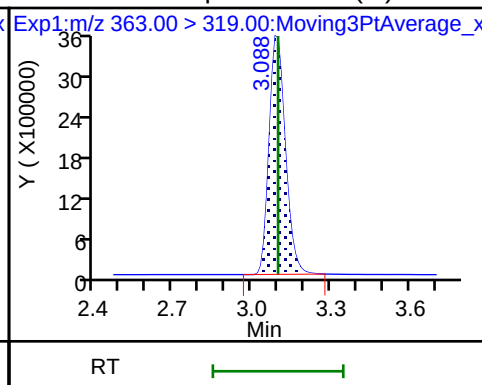
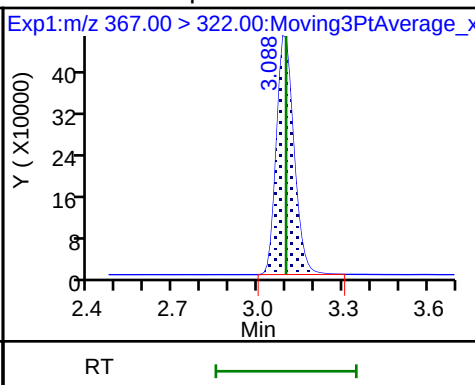
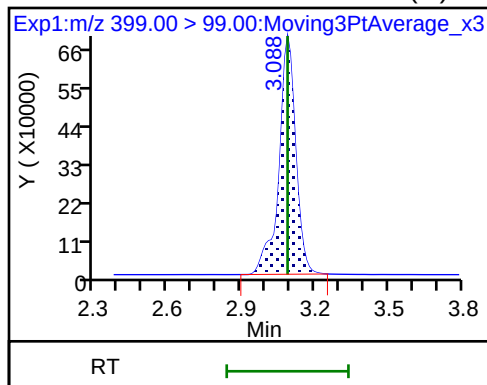
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

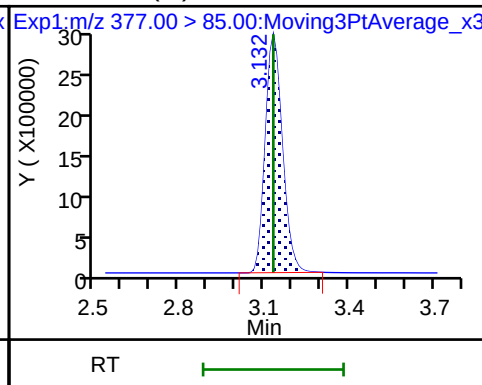
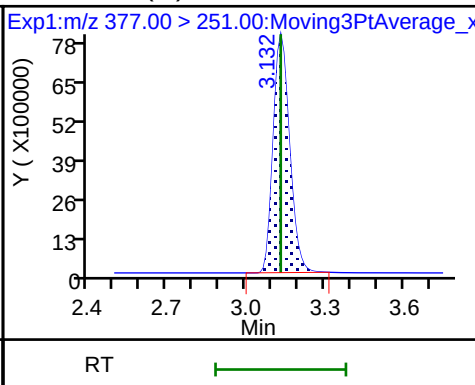
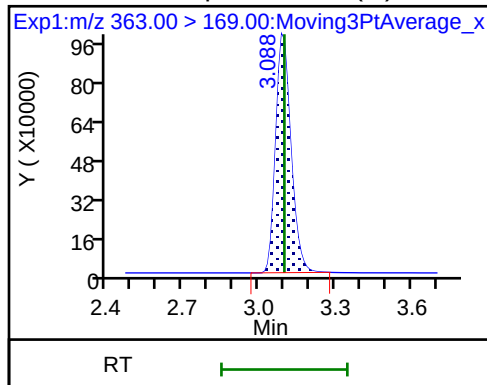
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

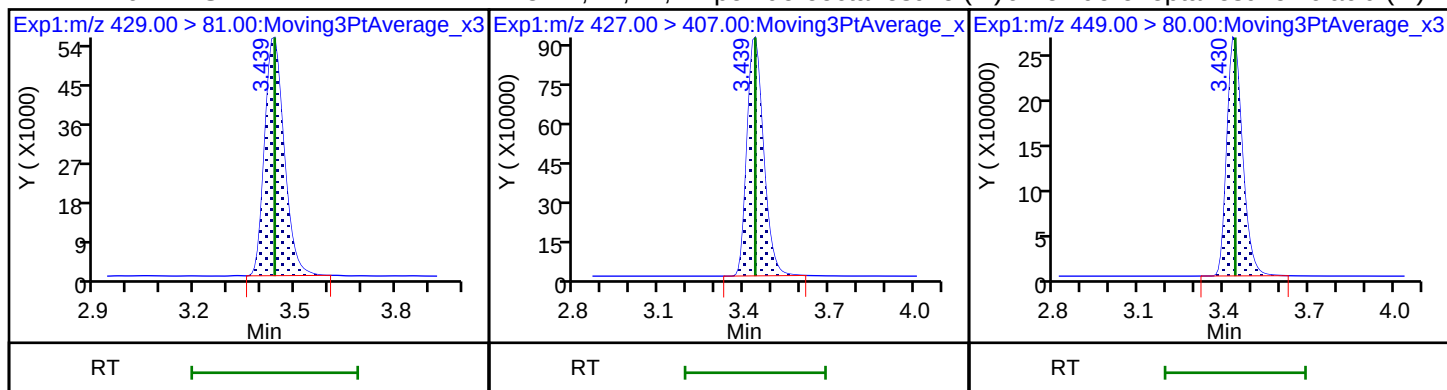
77 DONA (M)

77 DONA (M)



D 12 M2-6:2 FTS

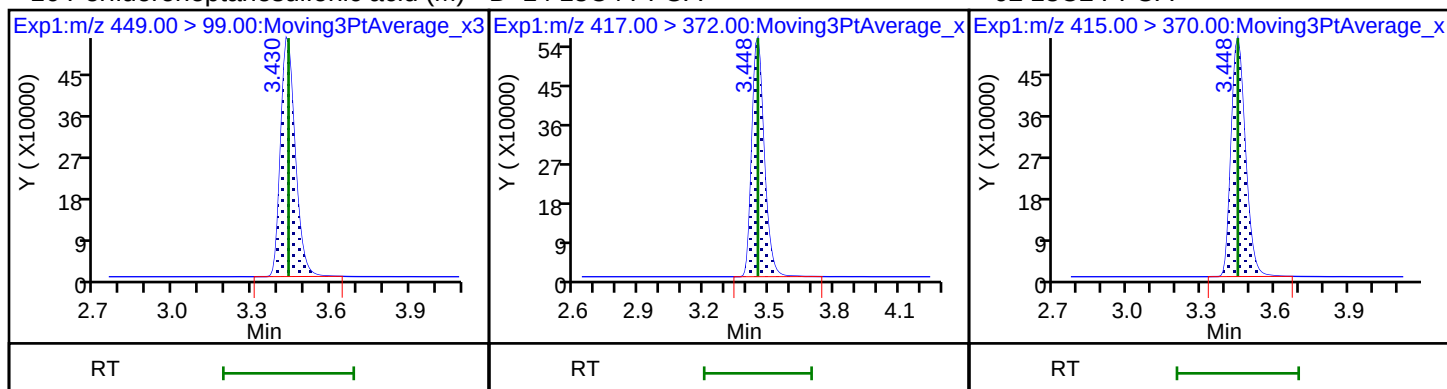
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

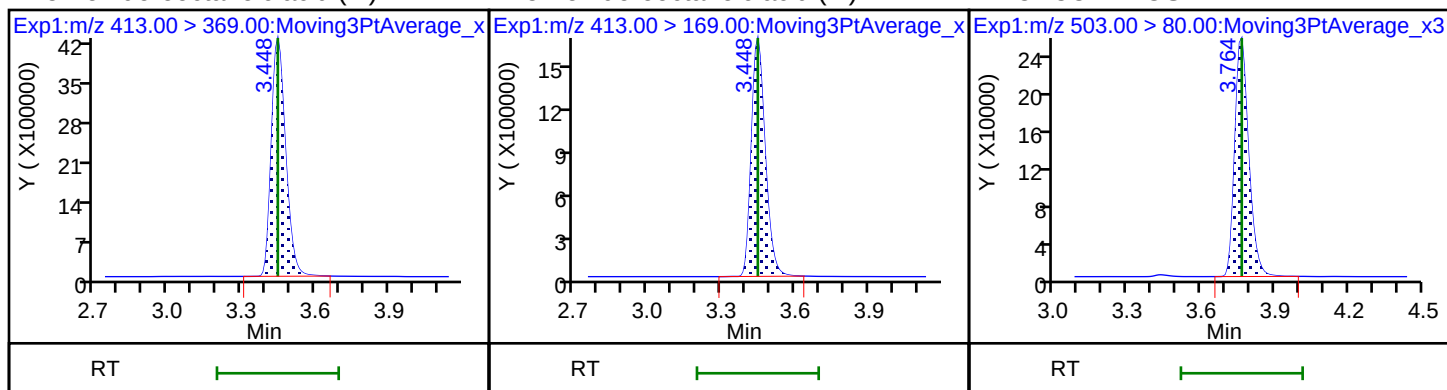
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

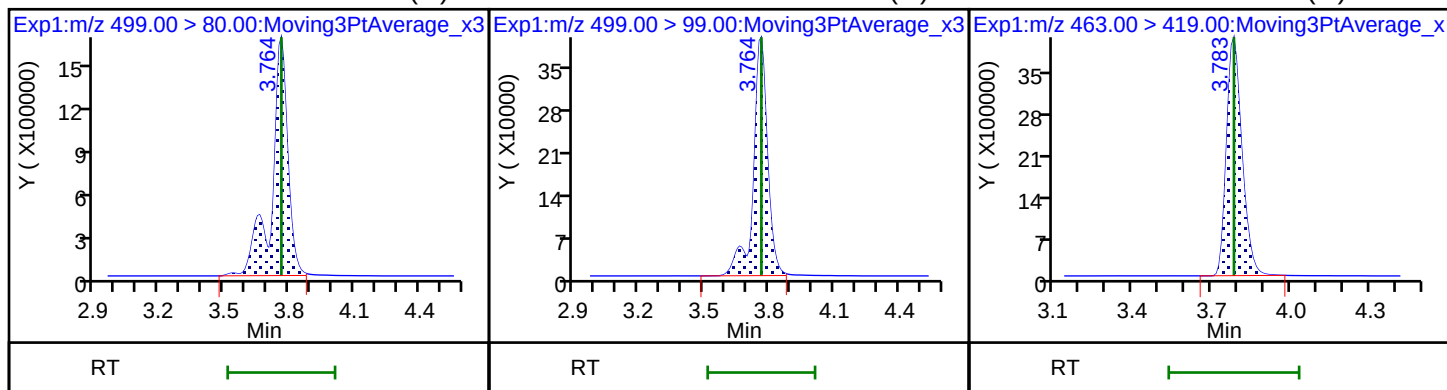
D 18 13C4 PFOS

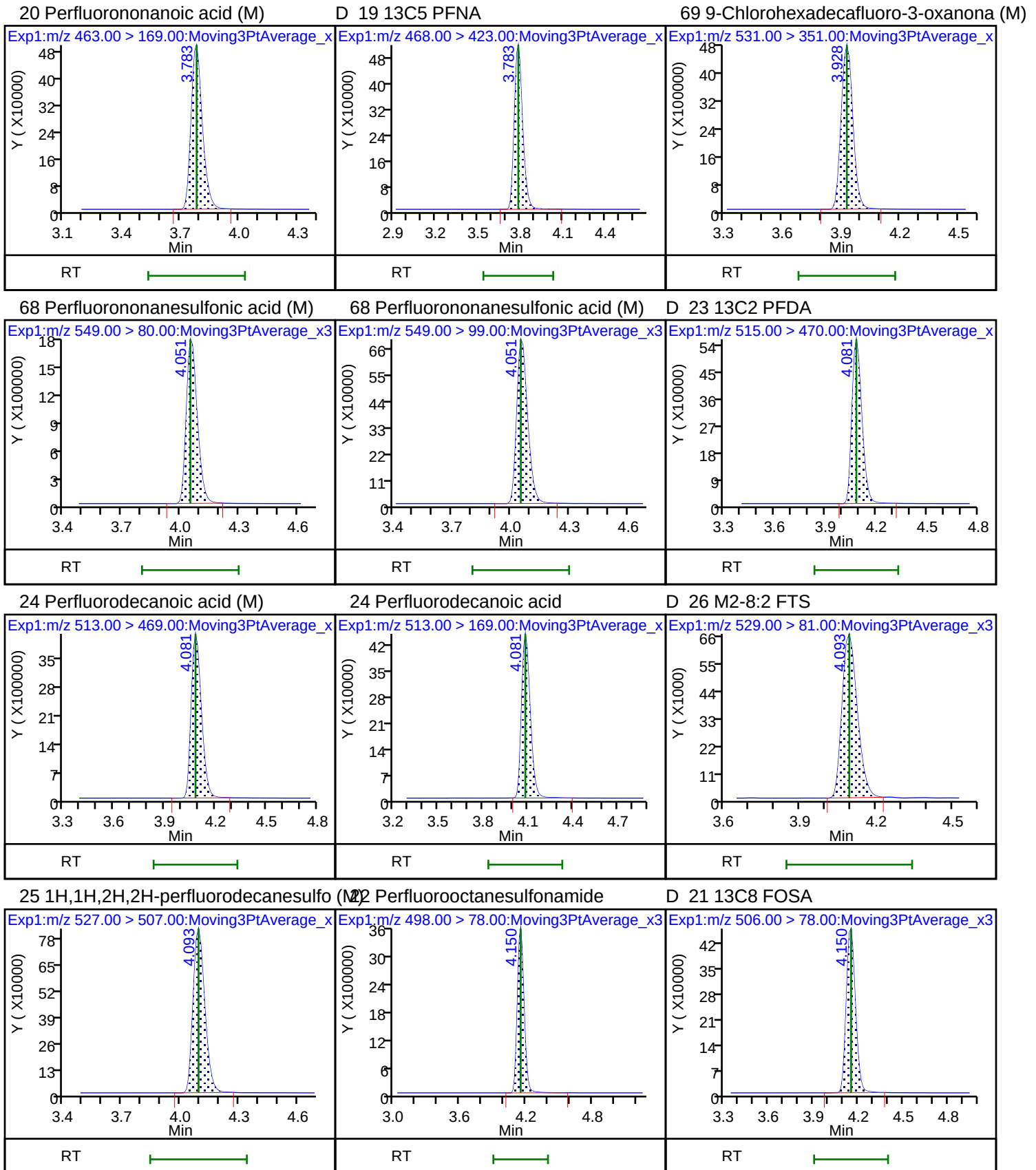


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

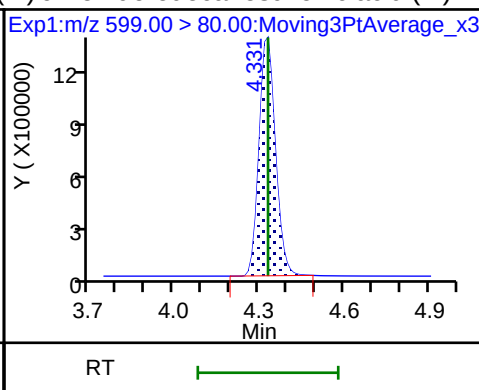
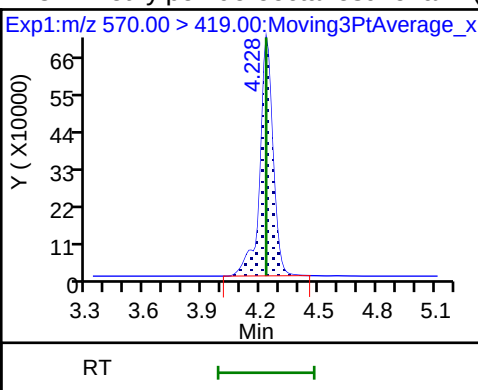
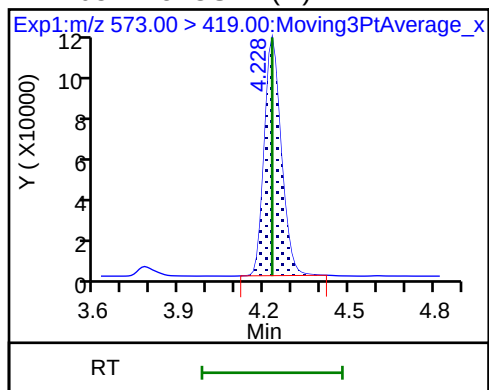




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

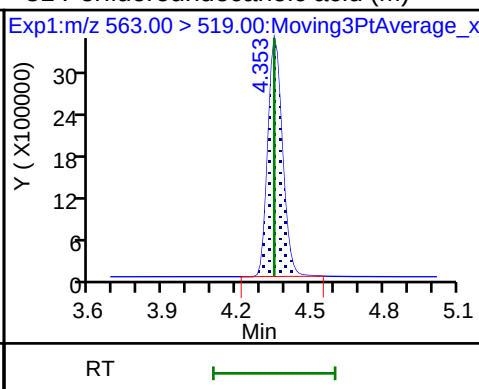
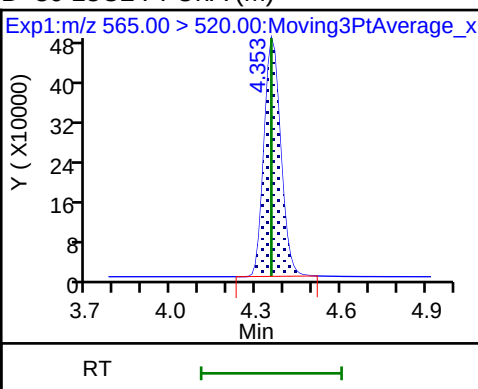
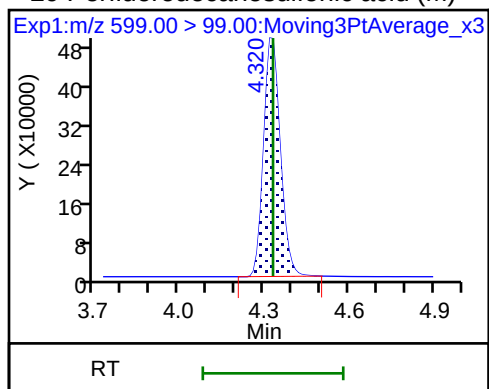
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

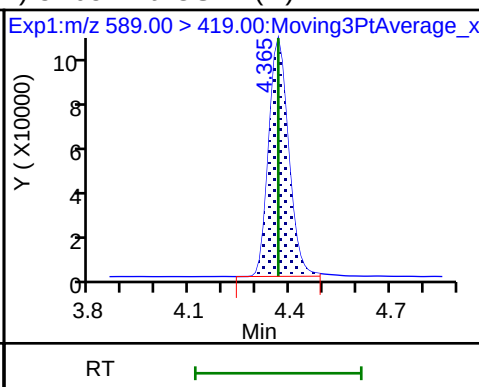
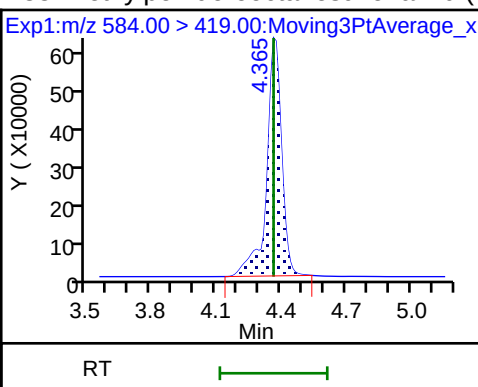
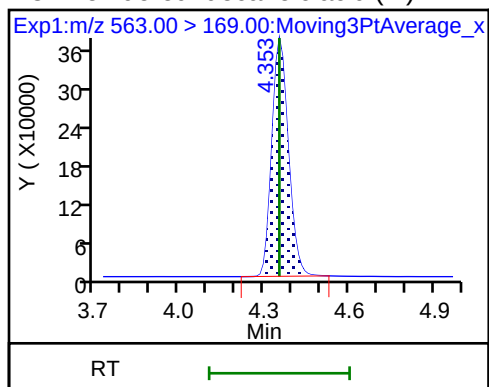
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

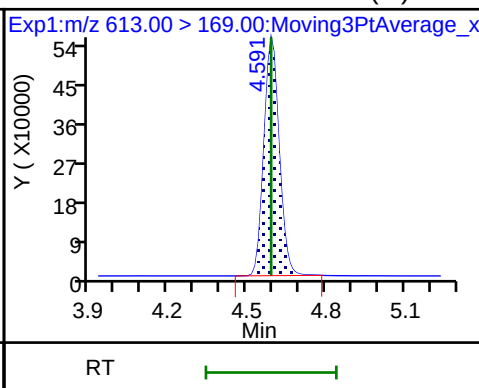
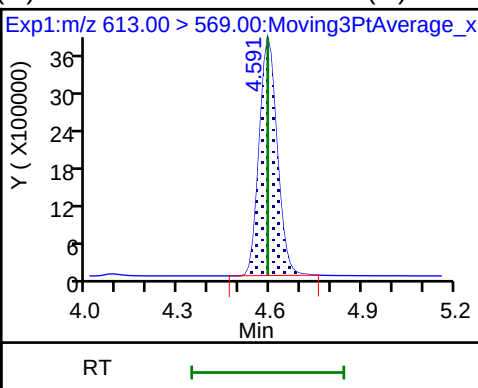
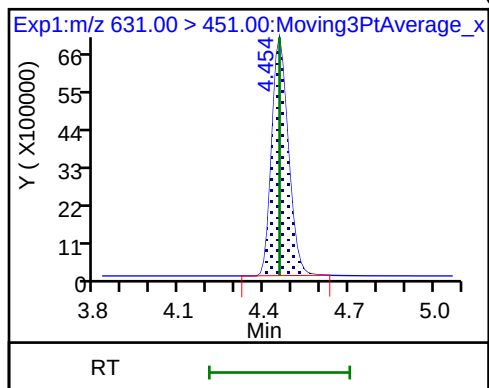
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

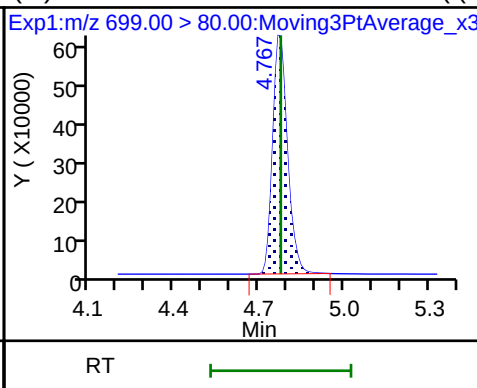
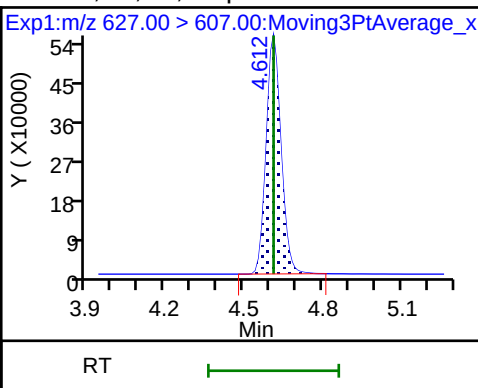
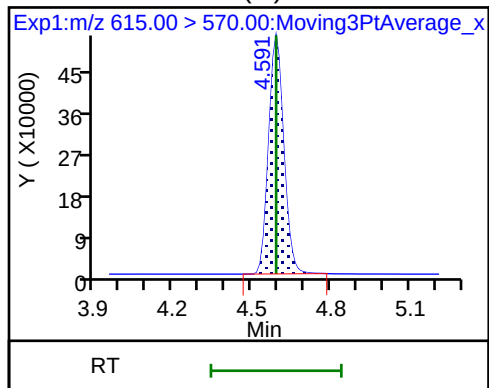
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



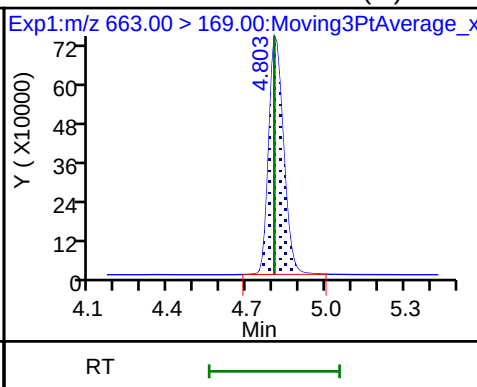
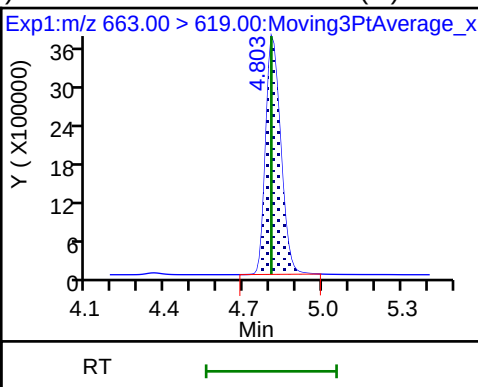
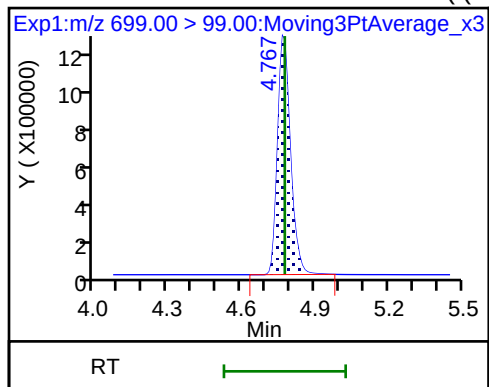
D 36 13C2 PFDa (M)

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



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

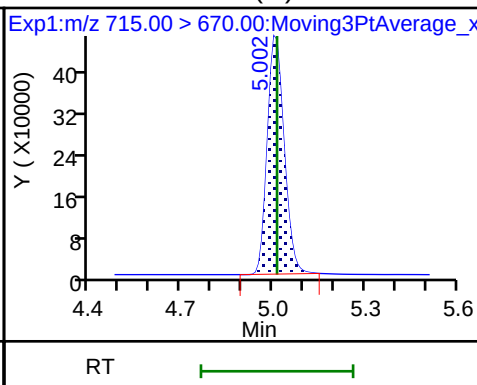
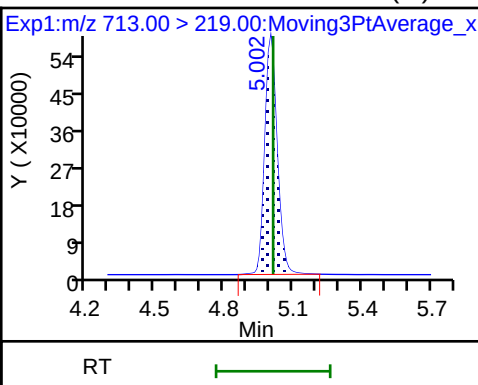
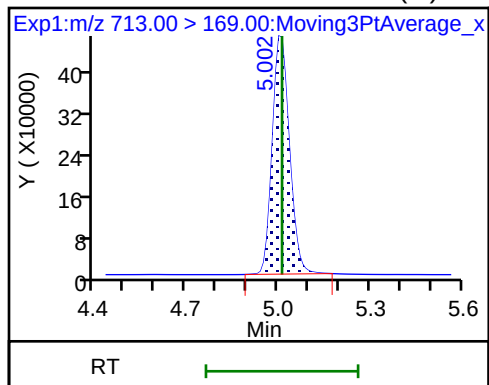
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

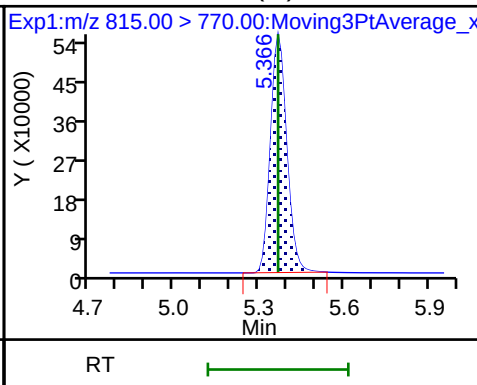
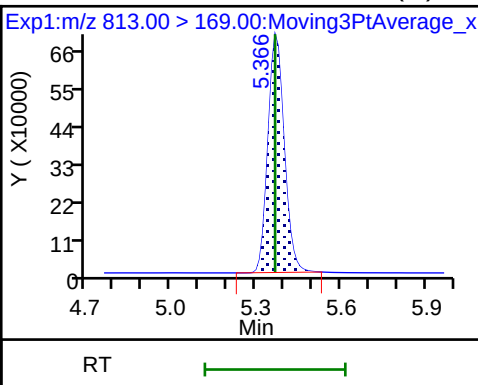
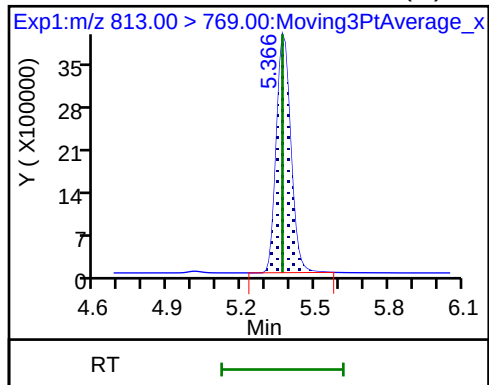
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid (M)

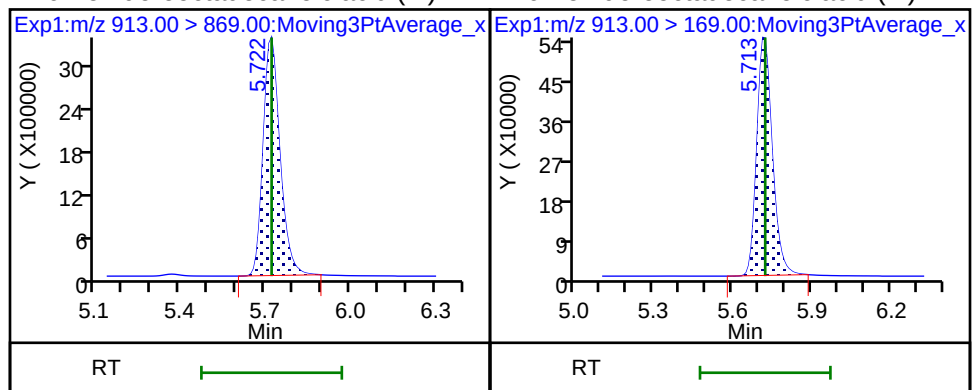
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

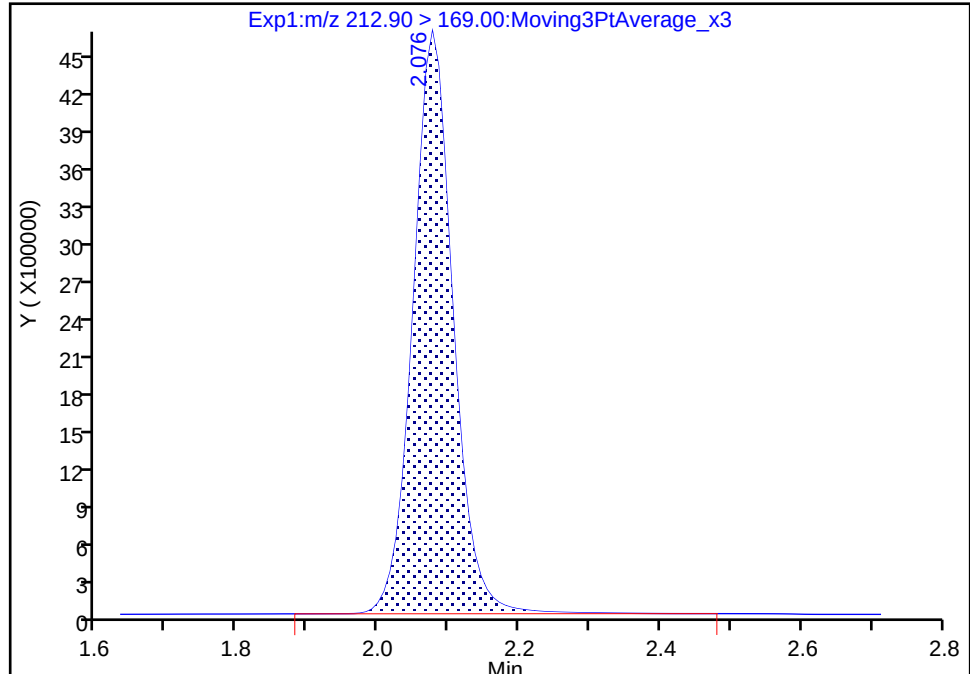
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Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

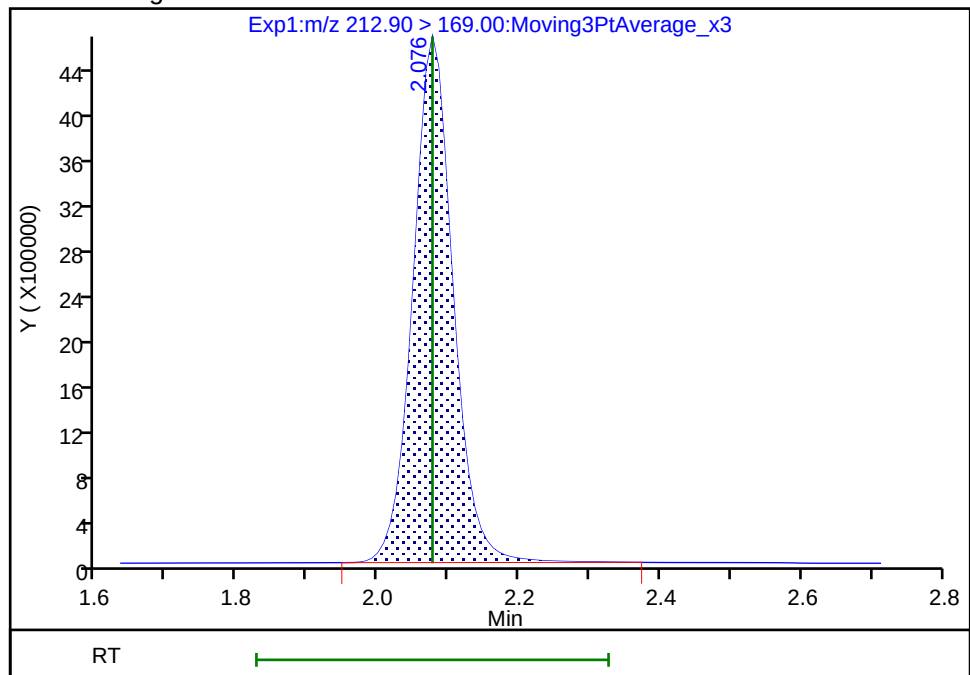
RT: 2.08
Area: 18330073
Amount: 9.001467
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 18287579
Amount: 8.983723
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

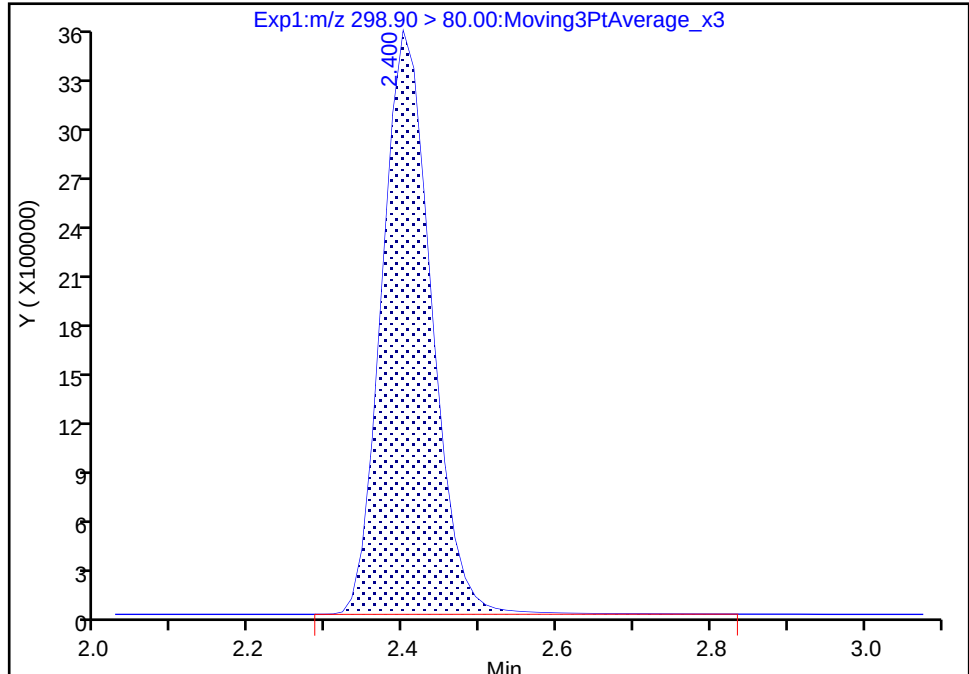
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

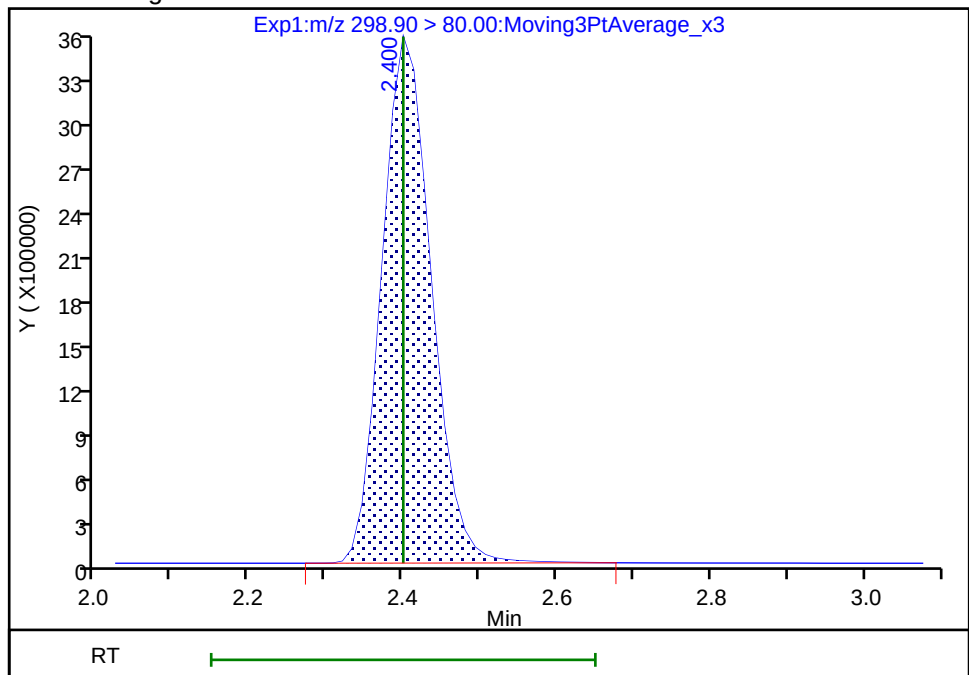
RT: 2.40
Area: 15798970
Amount: 8.357707
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 15764131
Amount: 8.342176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

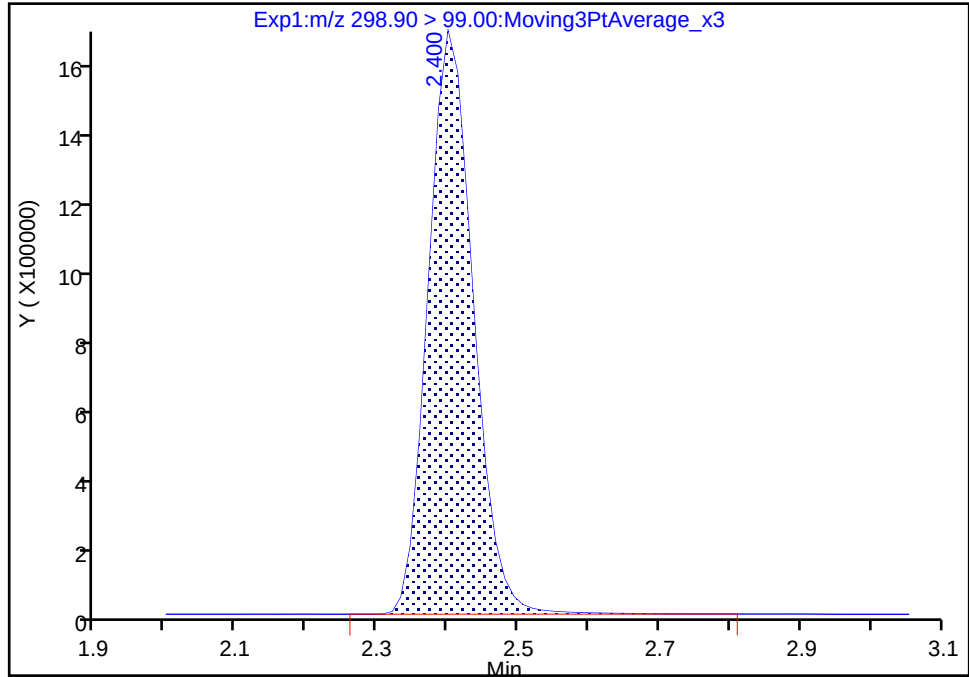
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

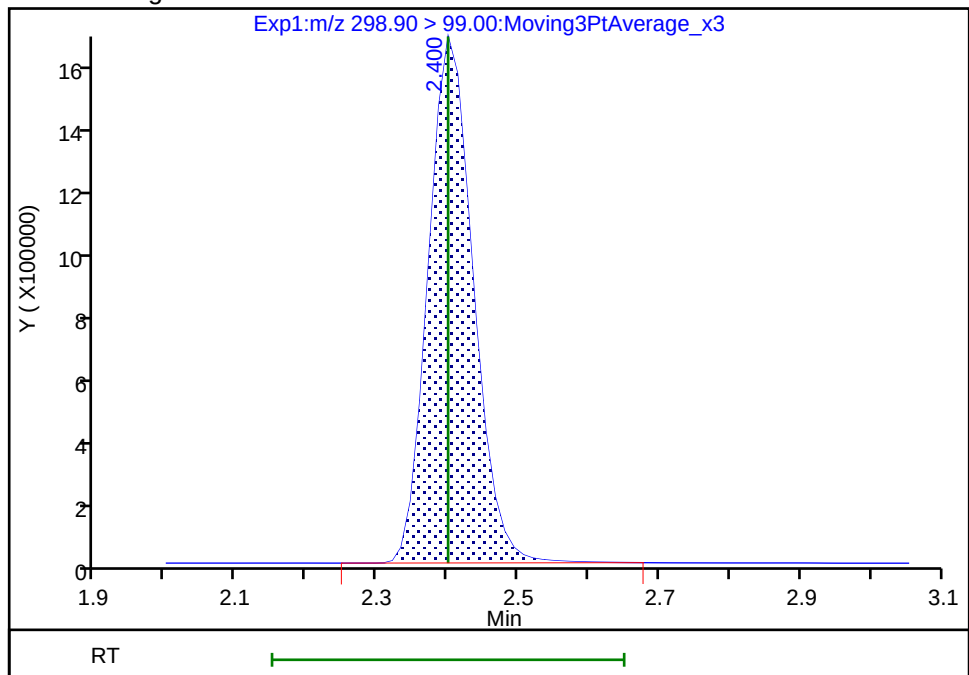
RT: 2.40
Area: 7478716
Amount: 8.357707
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 7462883
Amount: 8.342176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

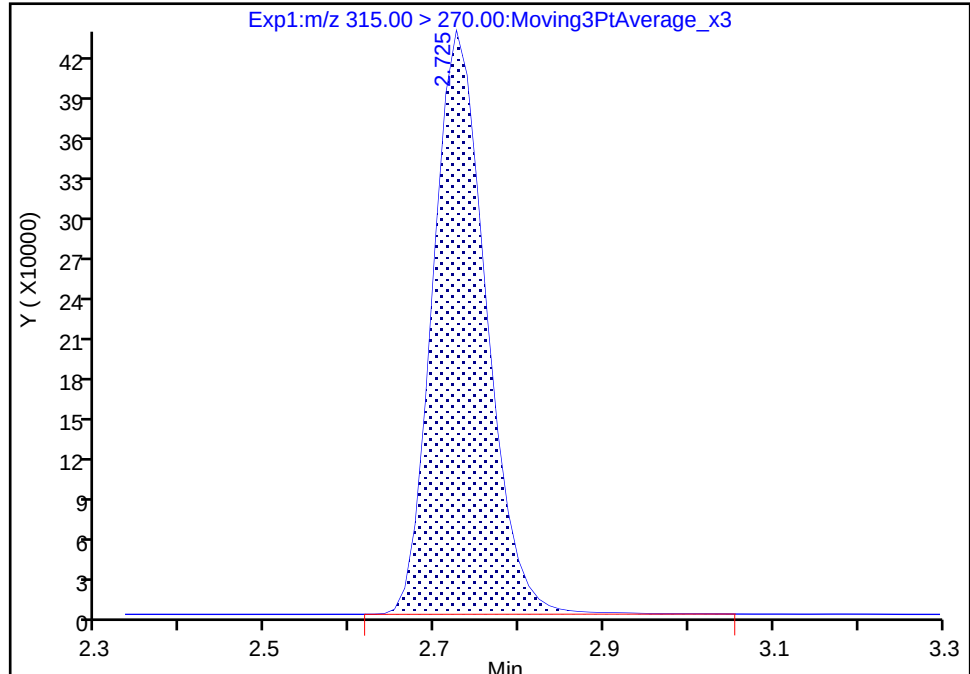
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

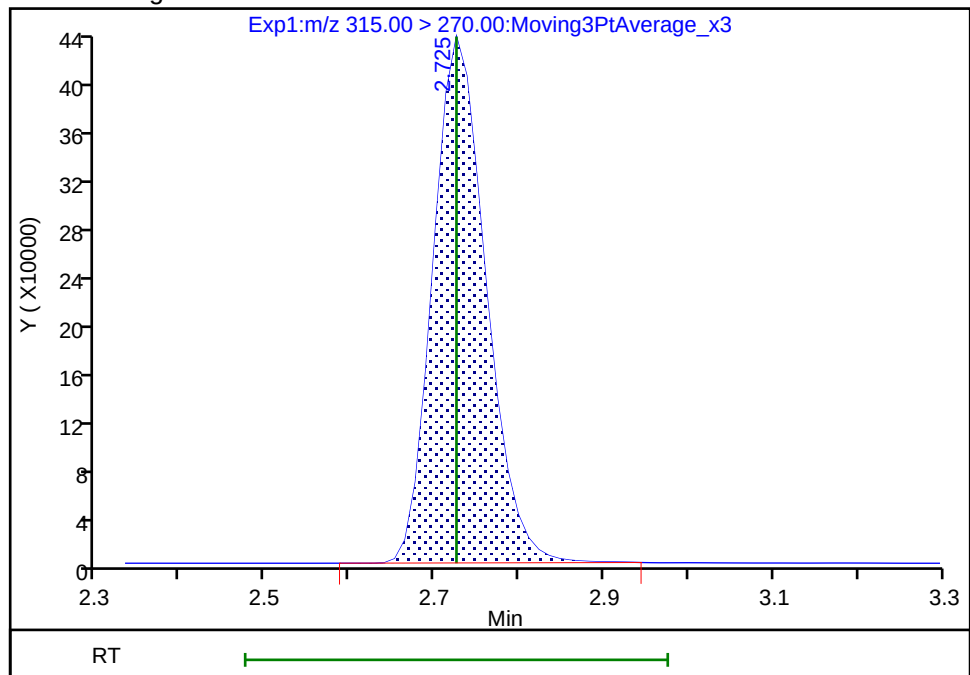
RT: 2.73
Area: 1911172
Amount: 1.275554
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1905245
Amount: 1.272270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

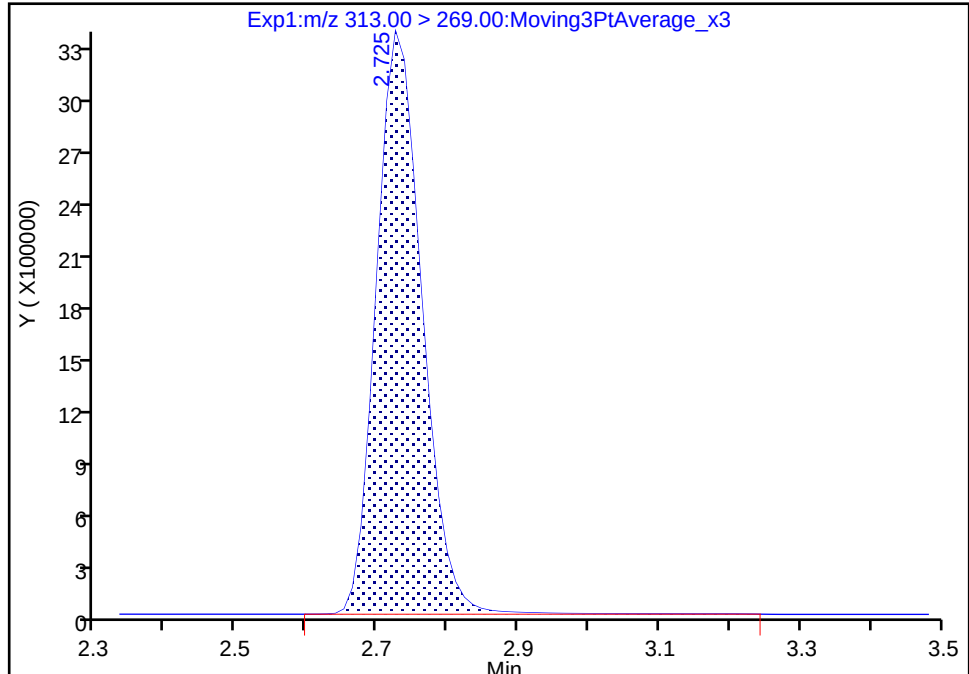
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

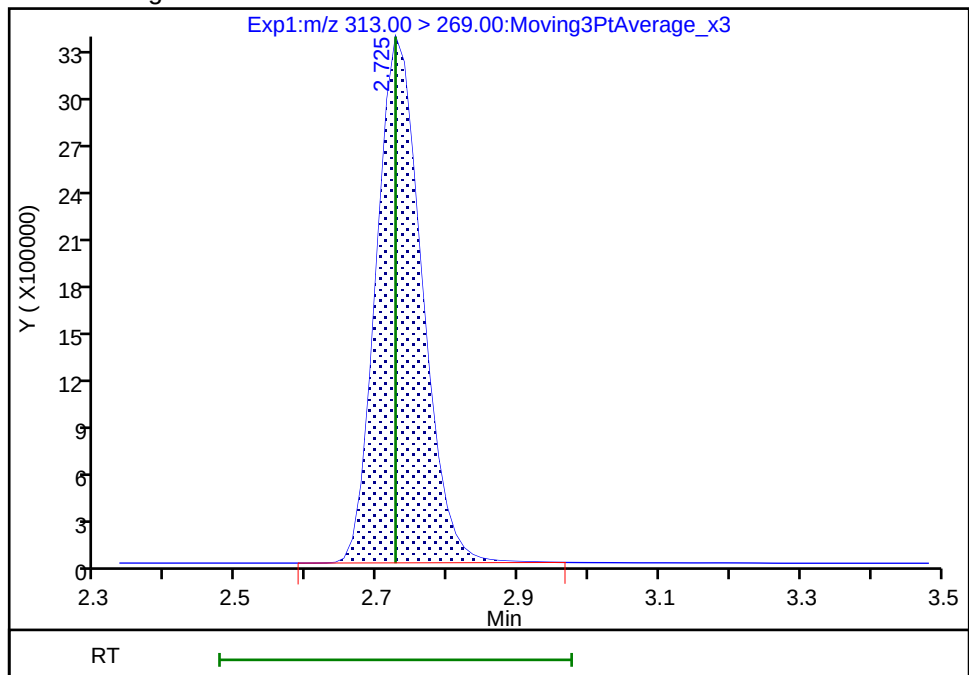
RT: 2.73
Area: 15003210
Amount: 9.027111
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 14928997
Amount: 8.989149
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

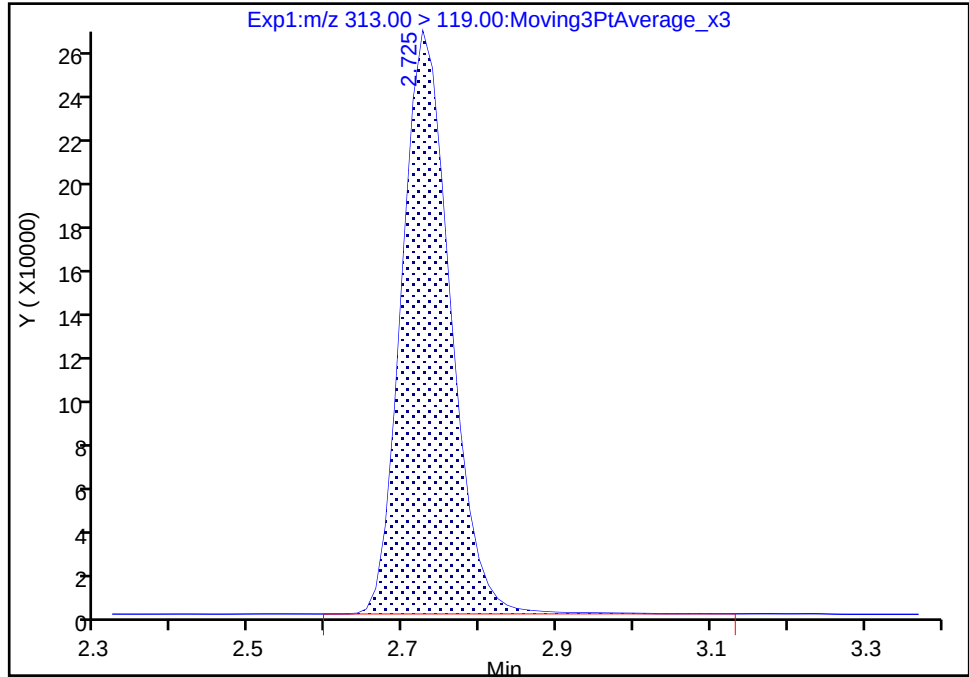
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

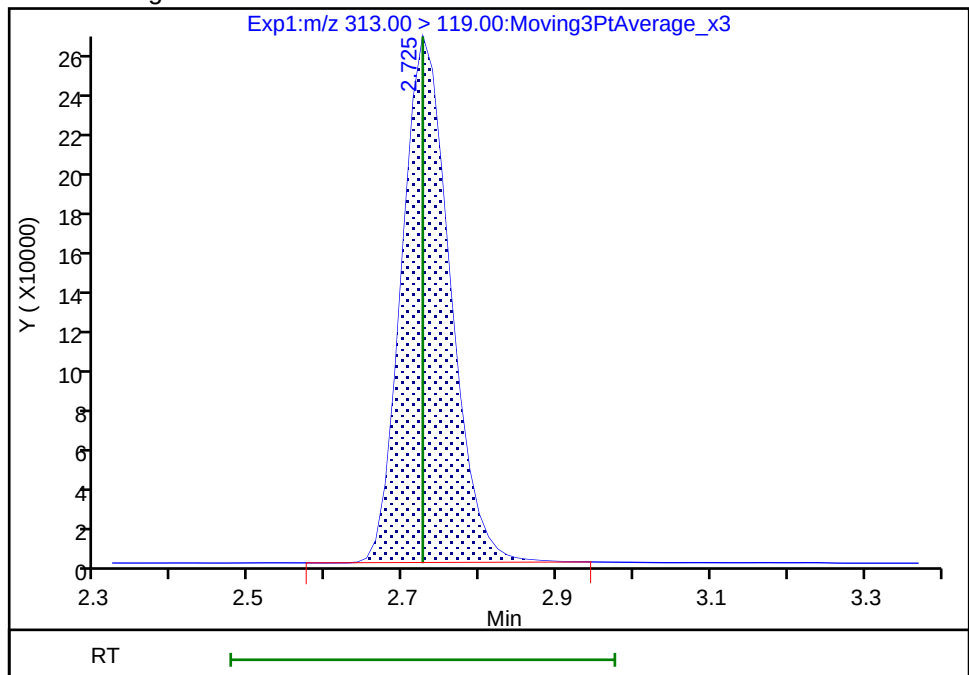
RT: 2.73
Area: 1145989
Amount: 9.027111
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1139463
Amount: 8.989149
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

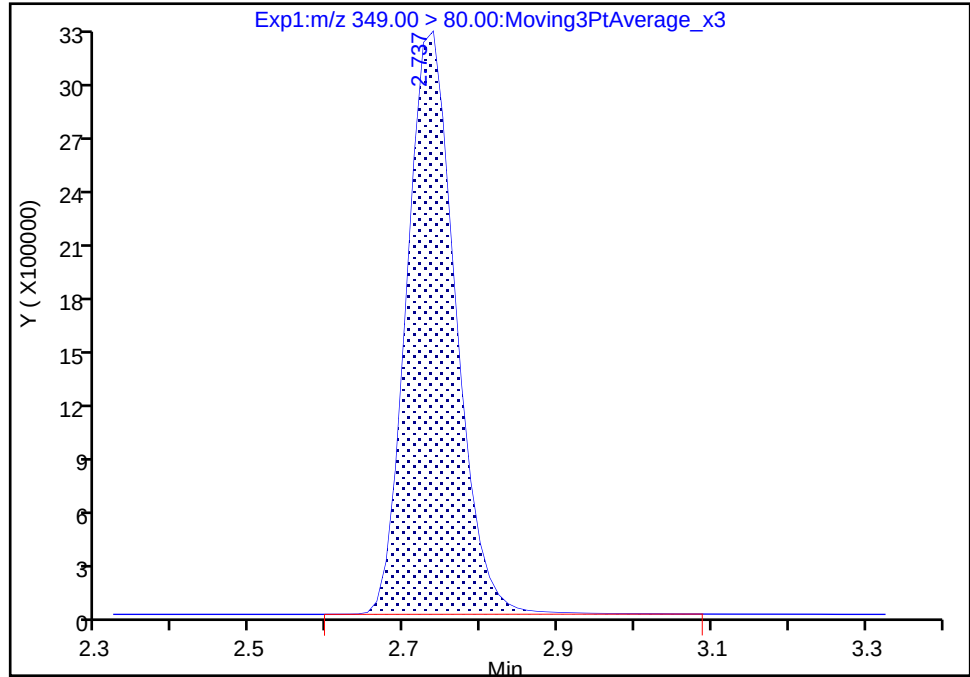
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

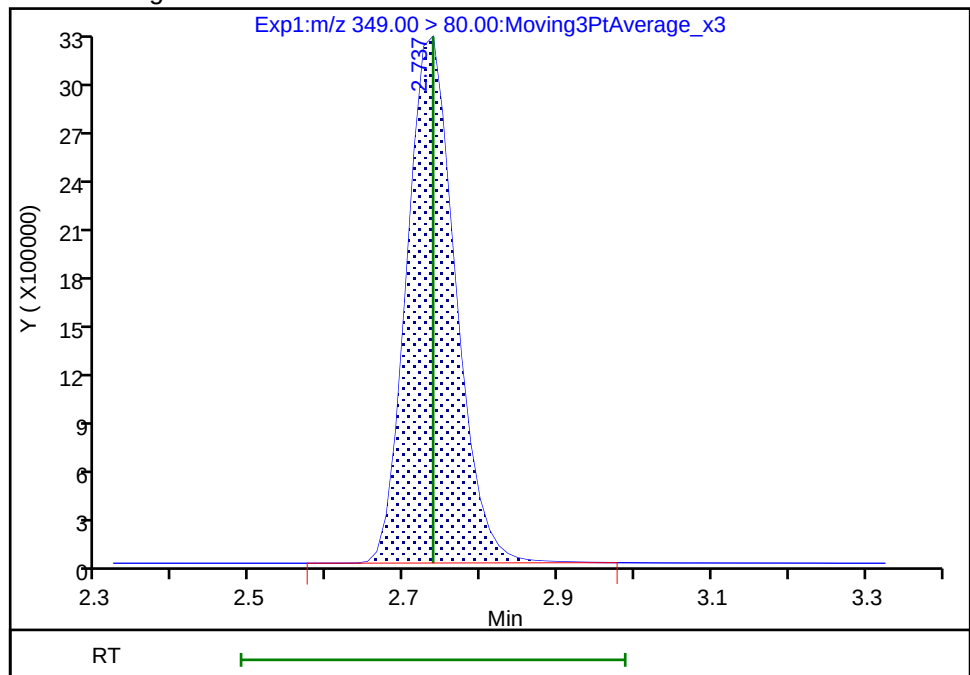
RT: 2.74
Area: 14186111
Amount: 8.840241
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 14151584
Amount: 8.842730
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

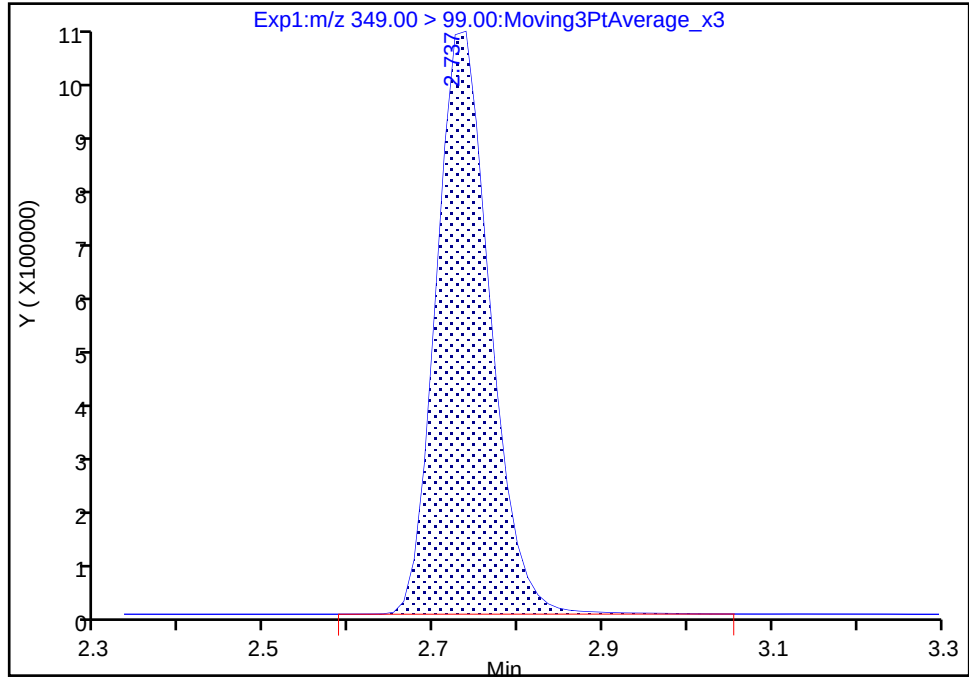
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

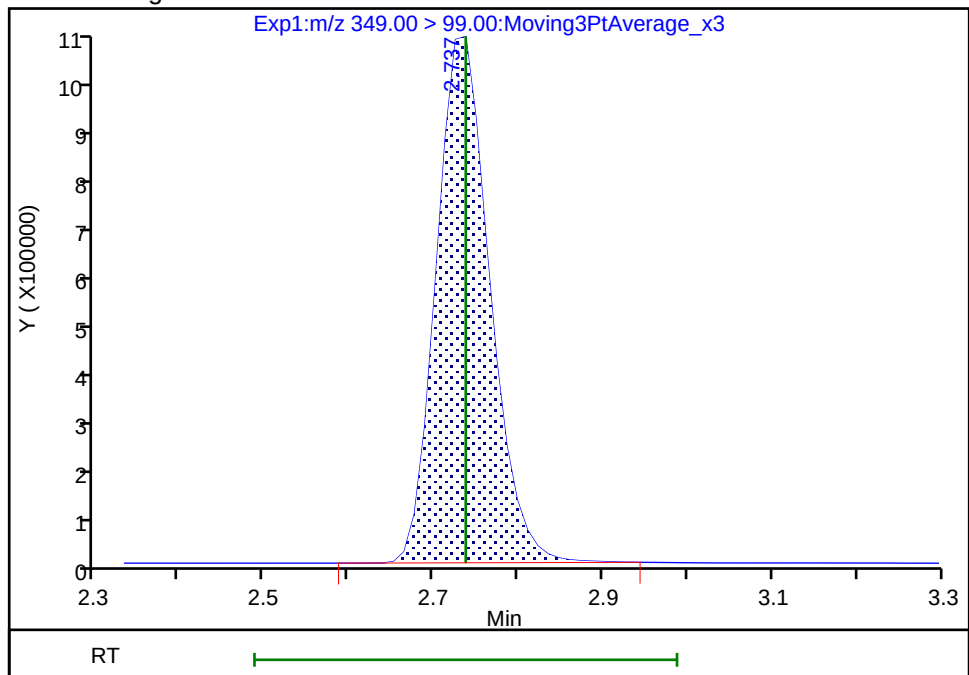
RT: 2.74
Area: 4717898
Amount: 8.840241
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 4699585
Amount: 8.842730
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

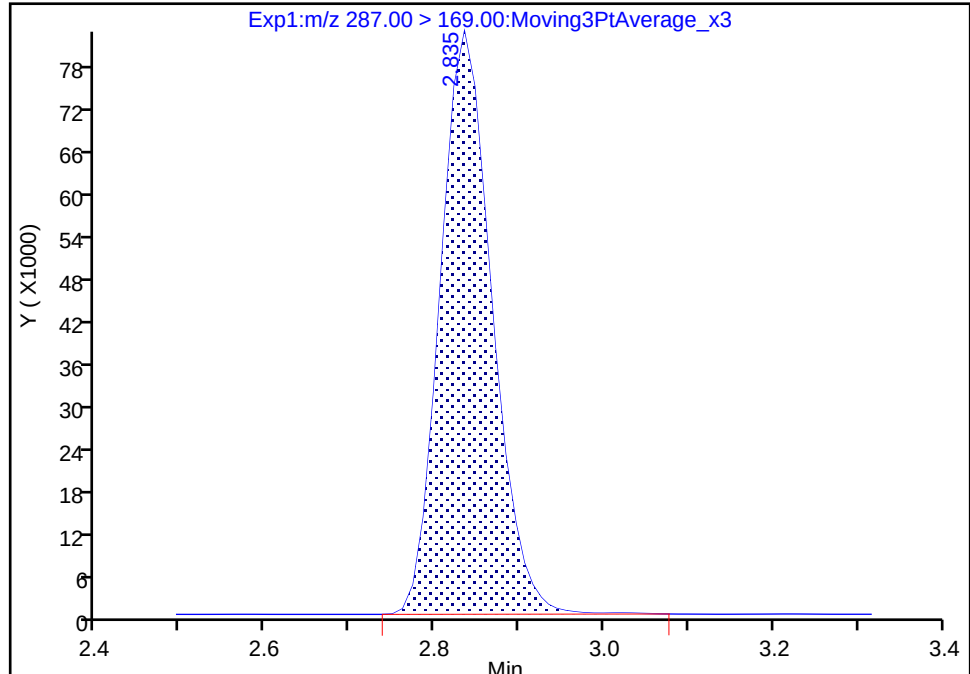
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

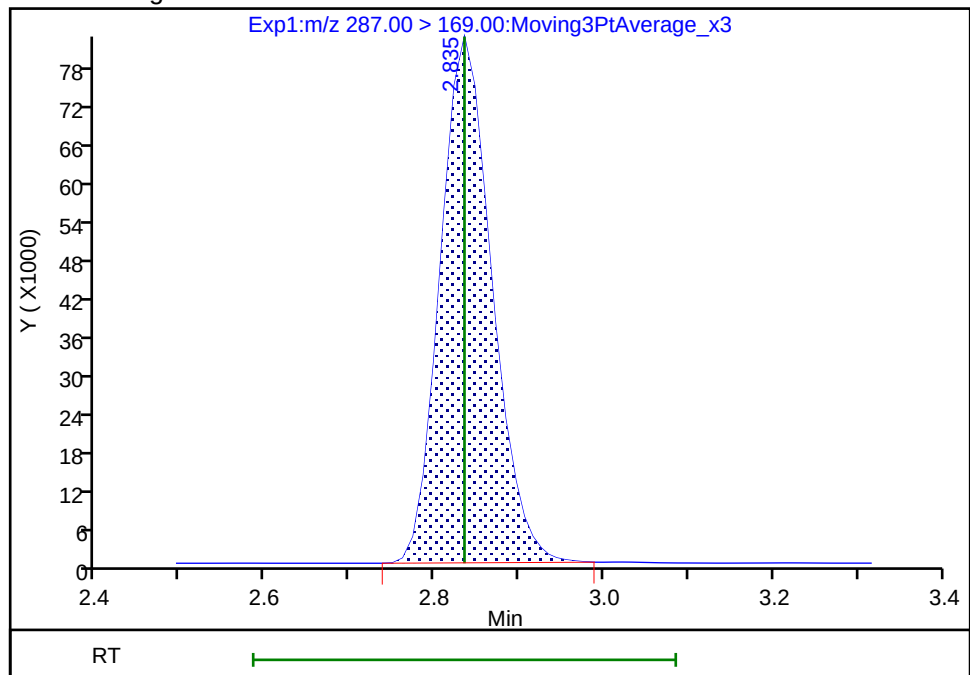
RT: 2.83
Area: 350493
Amount: 1.325043
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 349067
Amount: 1.320601
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

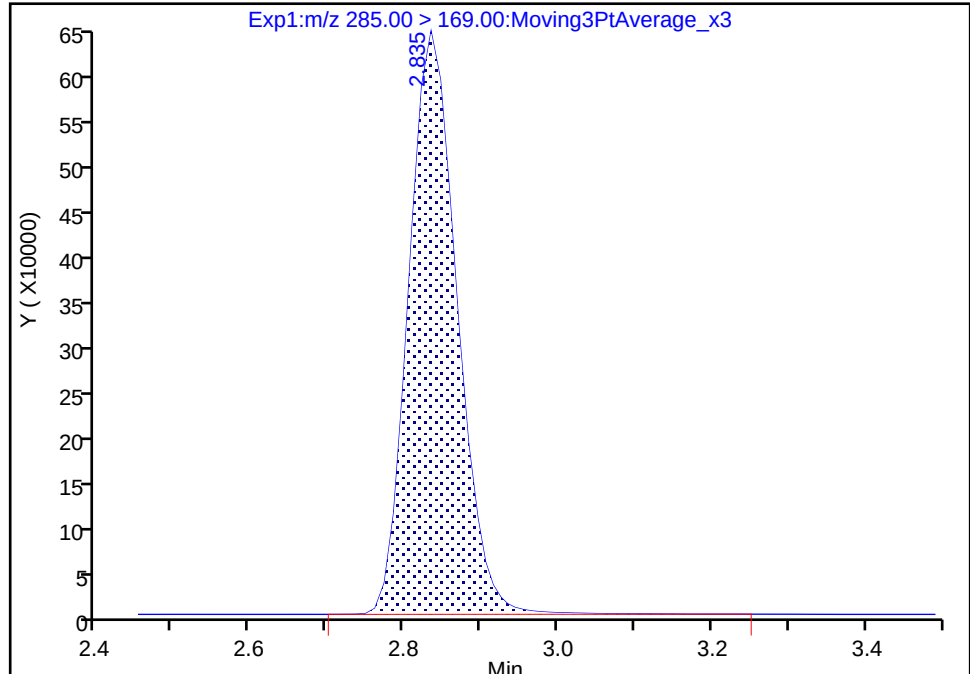
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

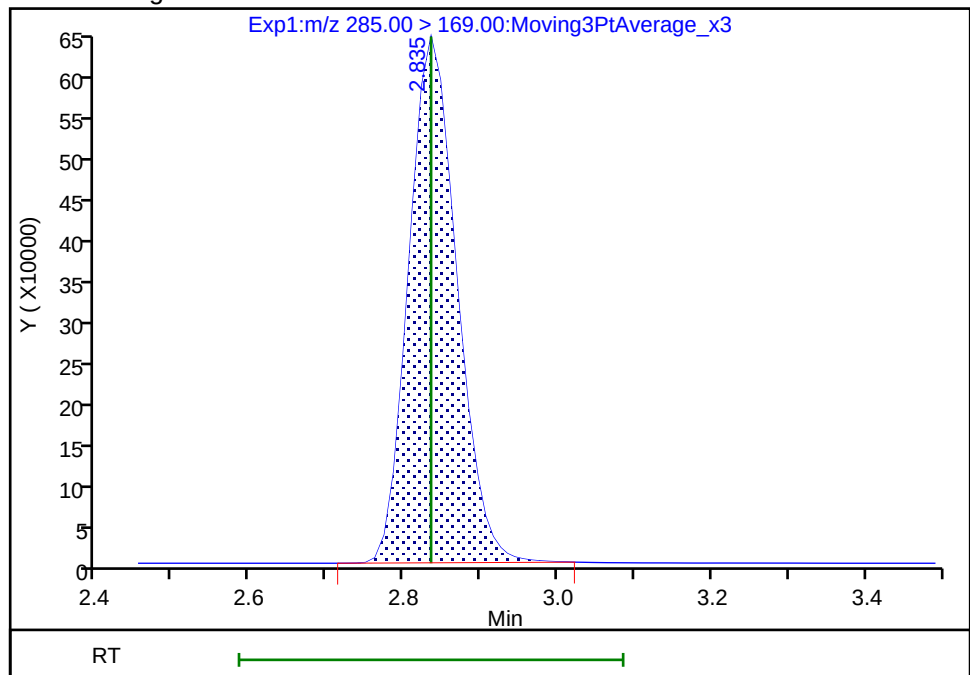
RT: 2.83
Area: 2806230
Amount: 9.475934
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 2790710
Amount: 9.464218
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

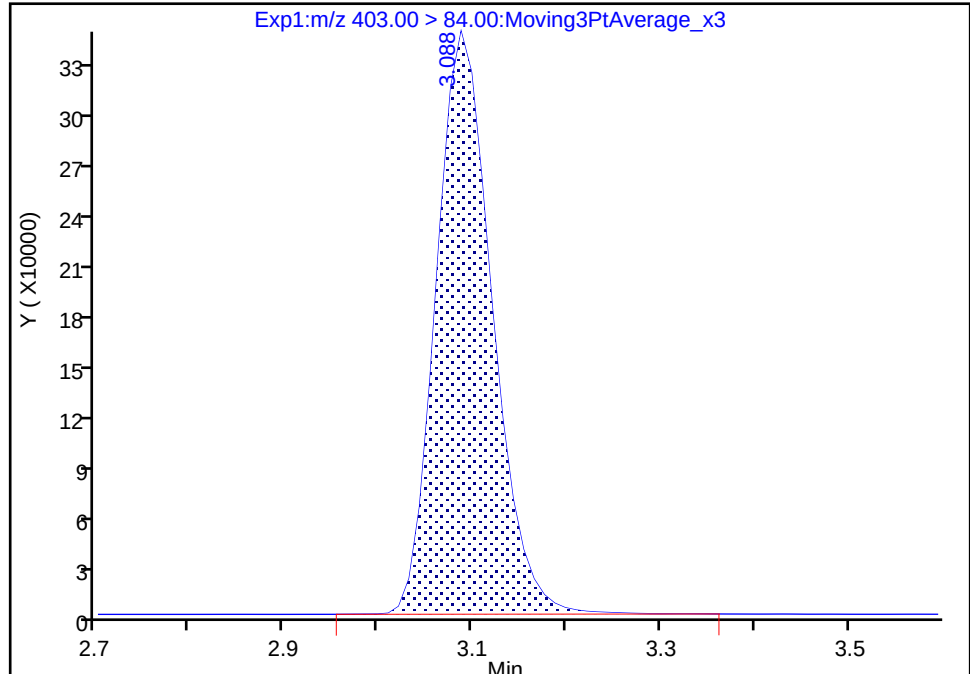
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

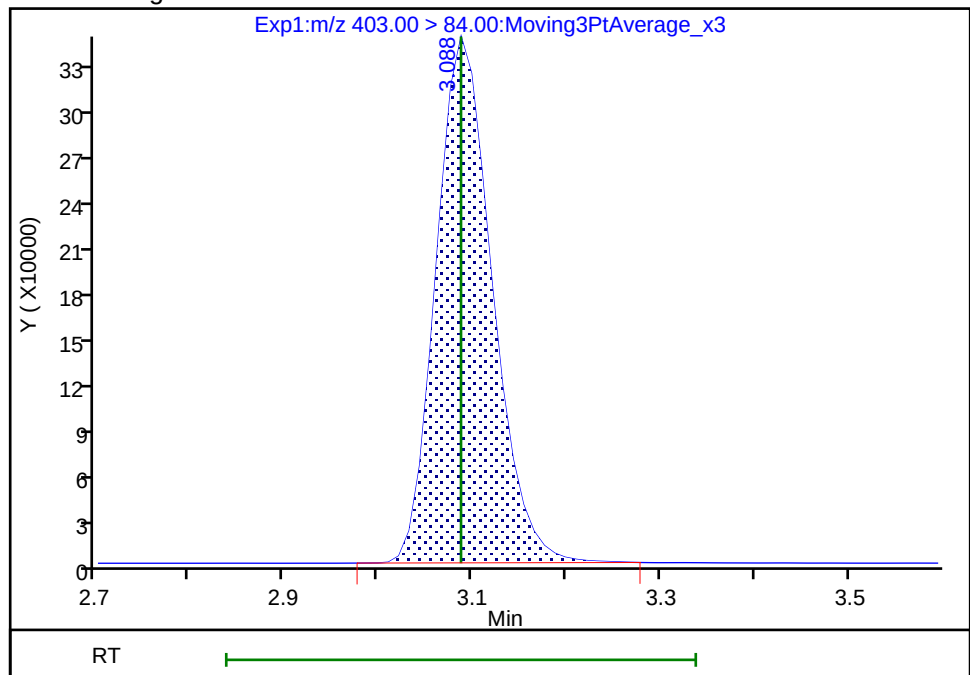
RT: 3.09
Area: 1421016
Amount: 1.255570
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1417084
Amount: 1.252709
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

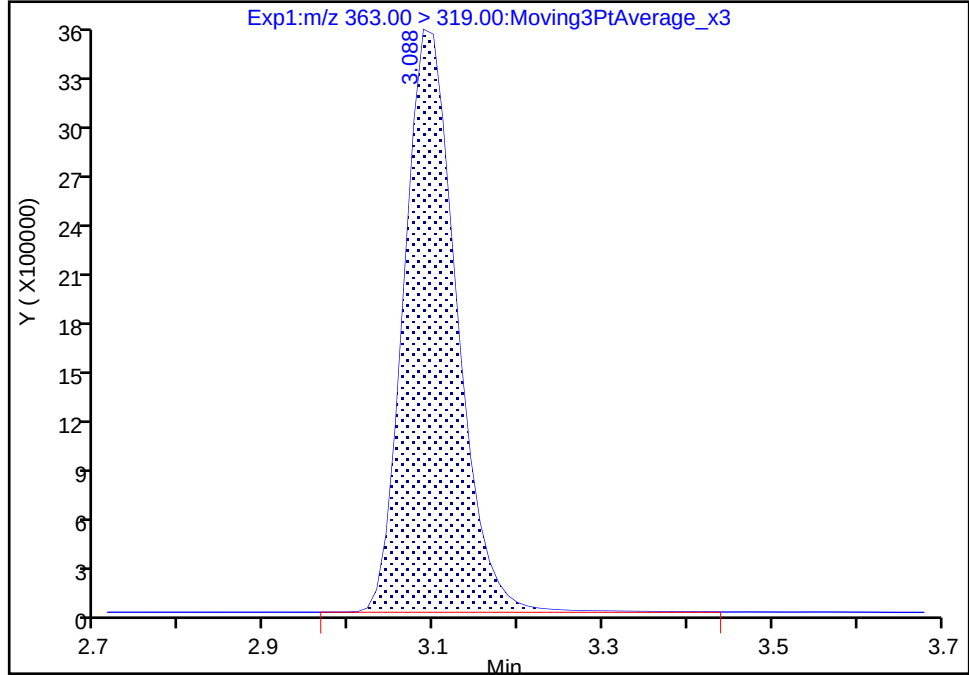
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

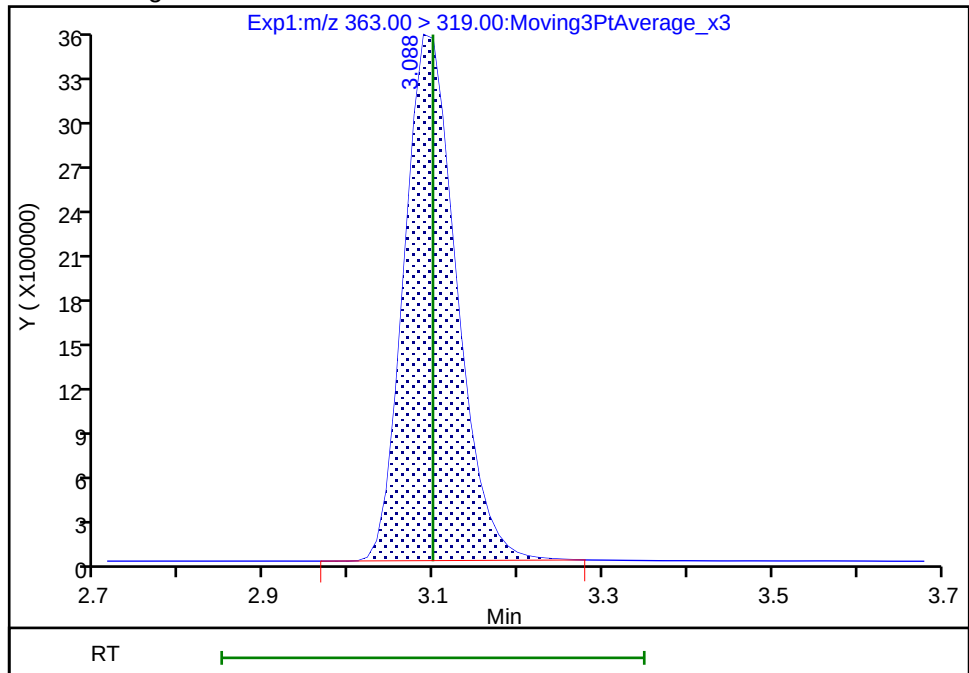
RT: 3.09
Area: 15507574
Amount: 9.027672
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 15384783
Amount: 8.966873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

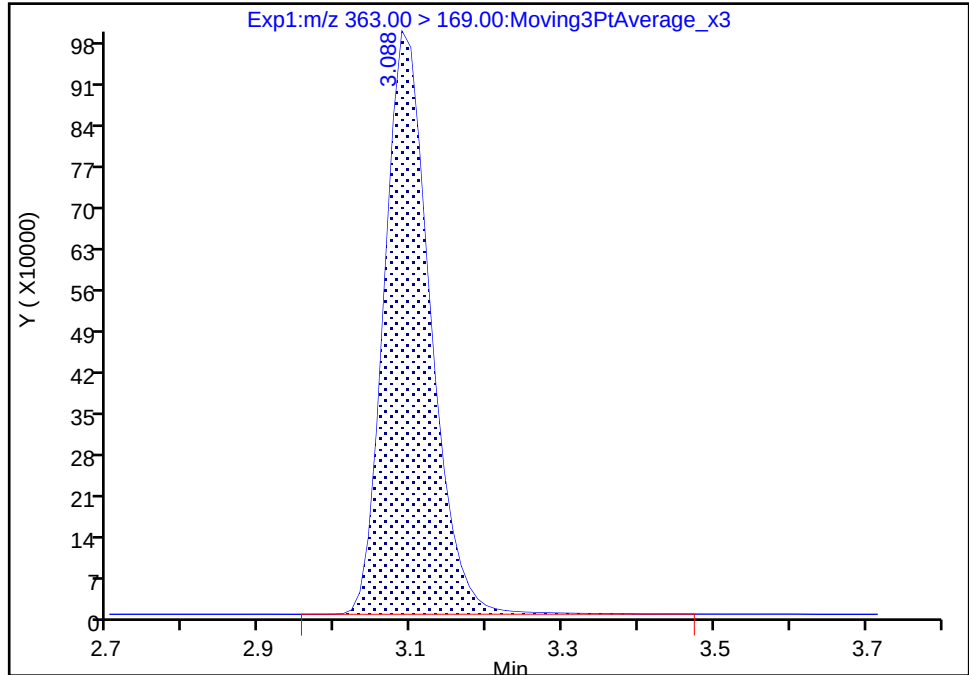
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

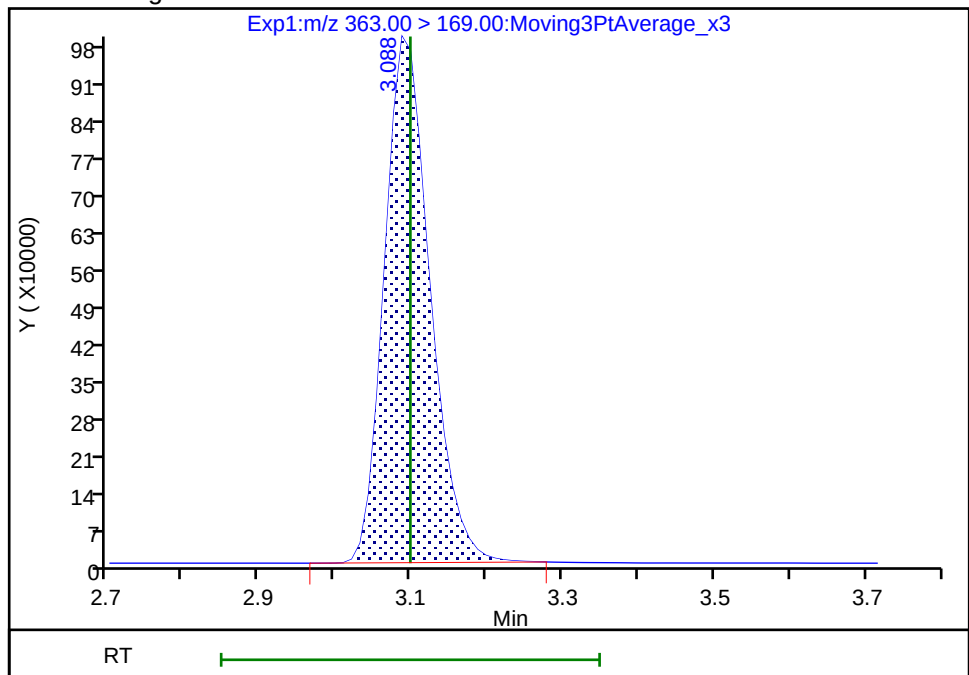
RT: 3.09
Area: 4165412
Amount: 9.027672
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 4138402
Amount: 8.966873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

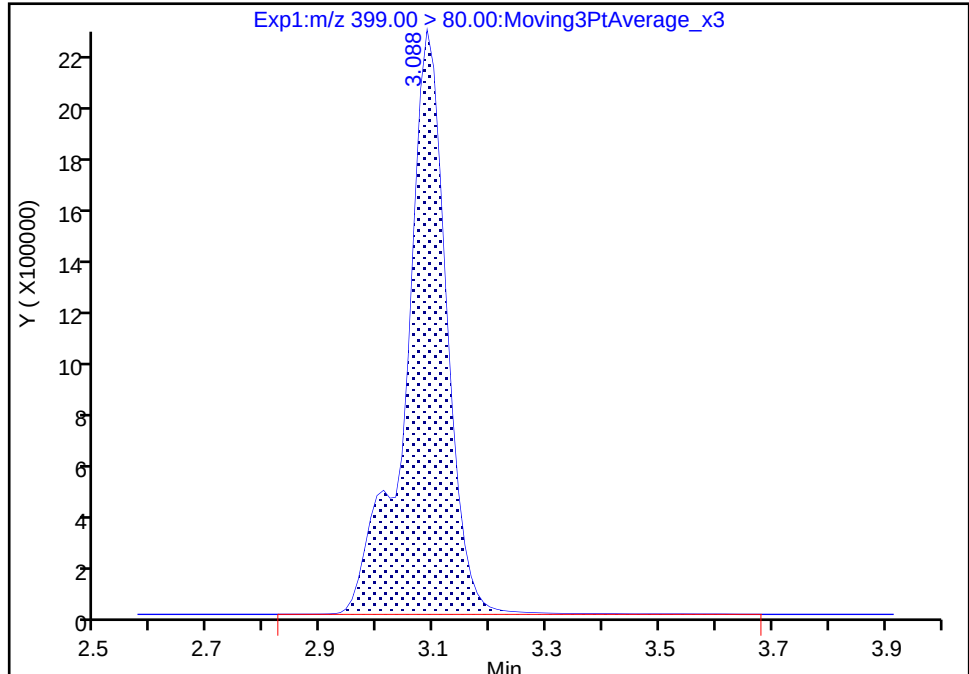
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

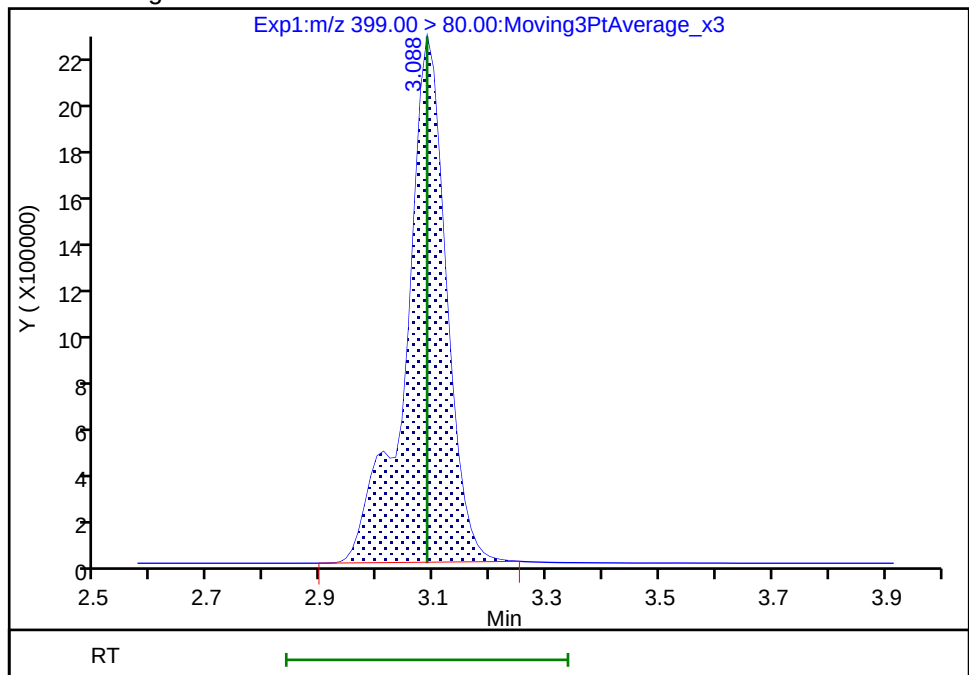
RT: 3.09
Area: 11572919
Amount: 8.540763
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 11438488
Amount: 8.456920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

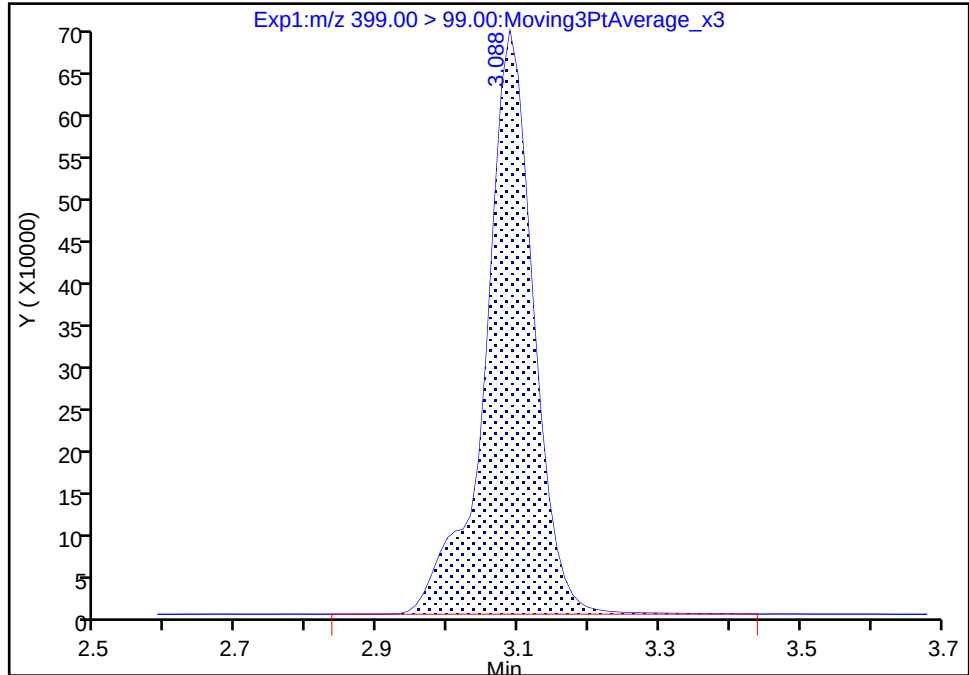
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

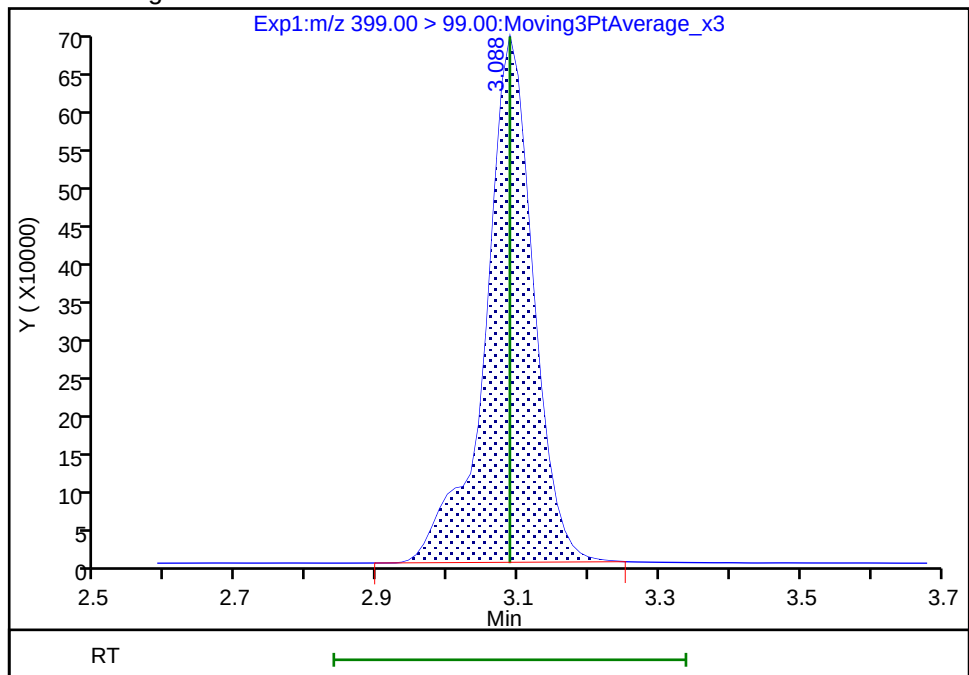
RT: 3.09
Area: 3294366
Amount: 8.540763
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3266390
Amount: 8.456920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

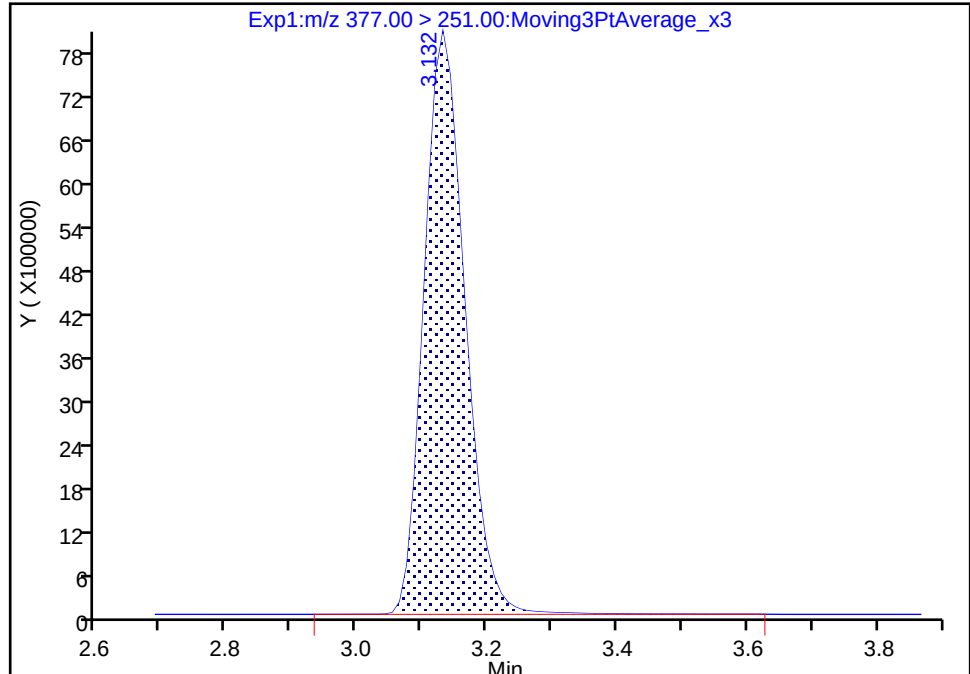
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

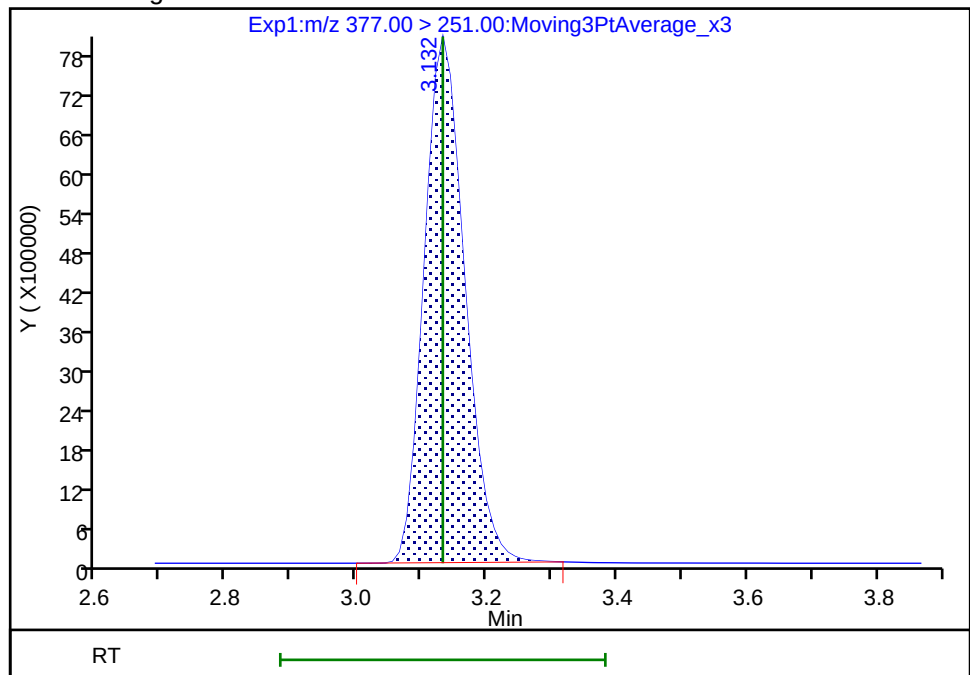
RT: 3.13
Area: 35196938
Amount: 7.677645
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 34921387
Amount: 7.625648
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

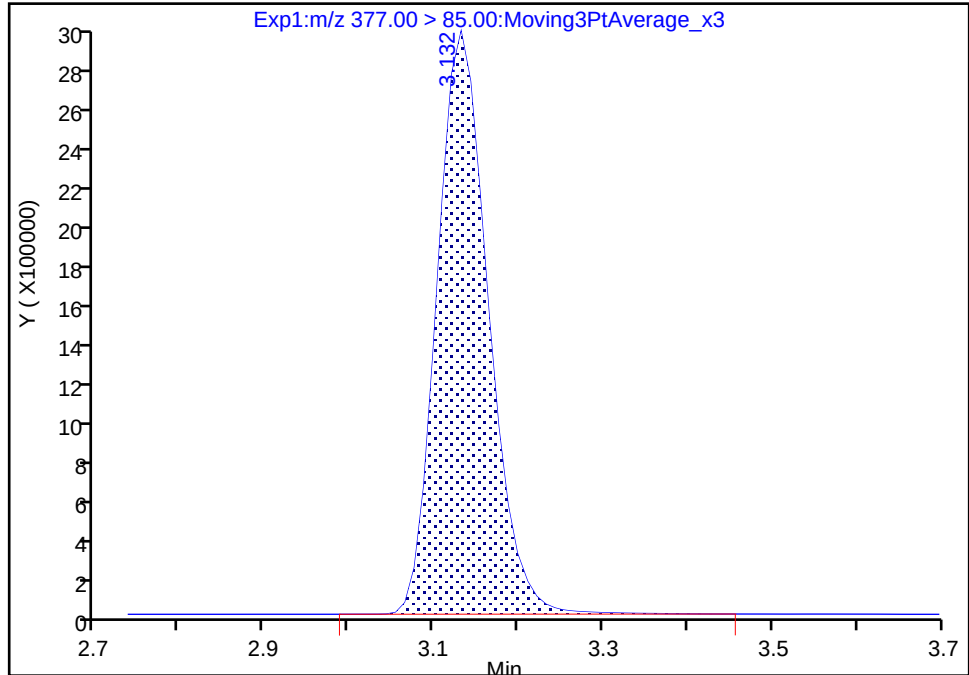
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

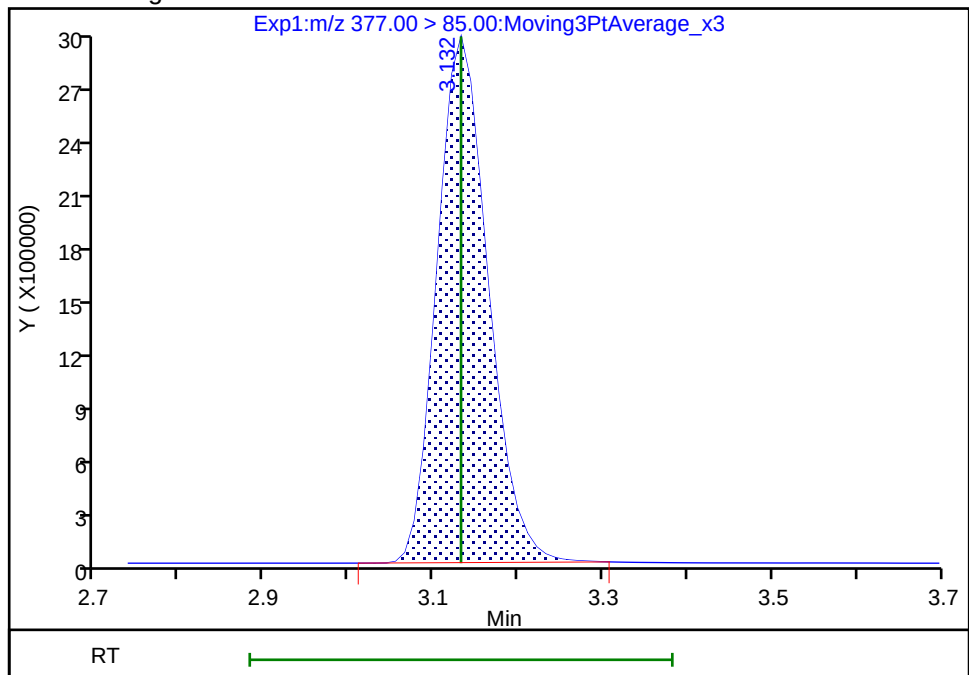
RT: 3.13
Area: 12365652
Amount: 7.677645
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 12293064
Amount: 7.625648
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

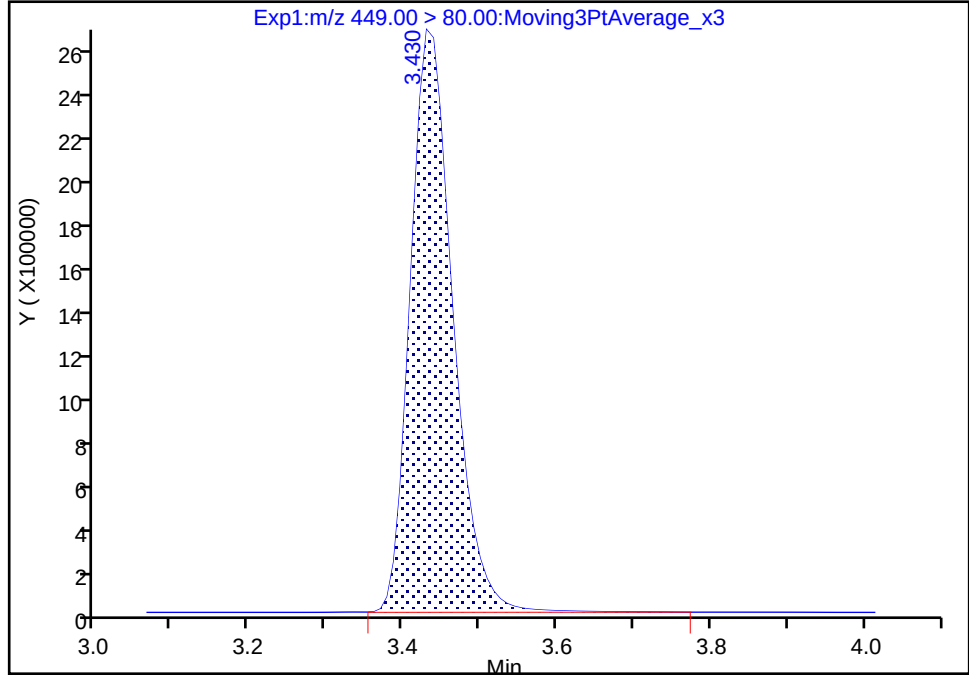
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

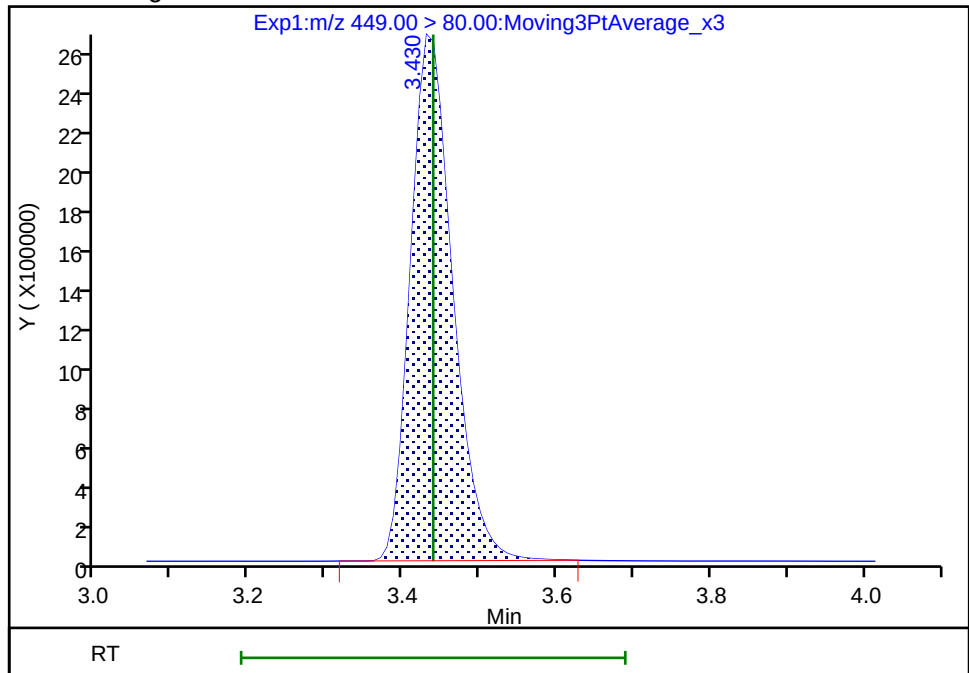
RT: 3.43
Area: 10231634
Amount: 8.801285
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 10171074
Amount: 8.757178
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

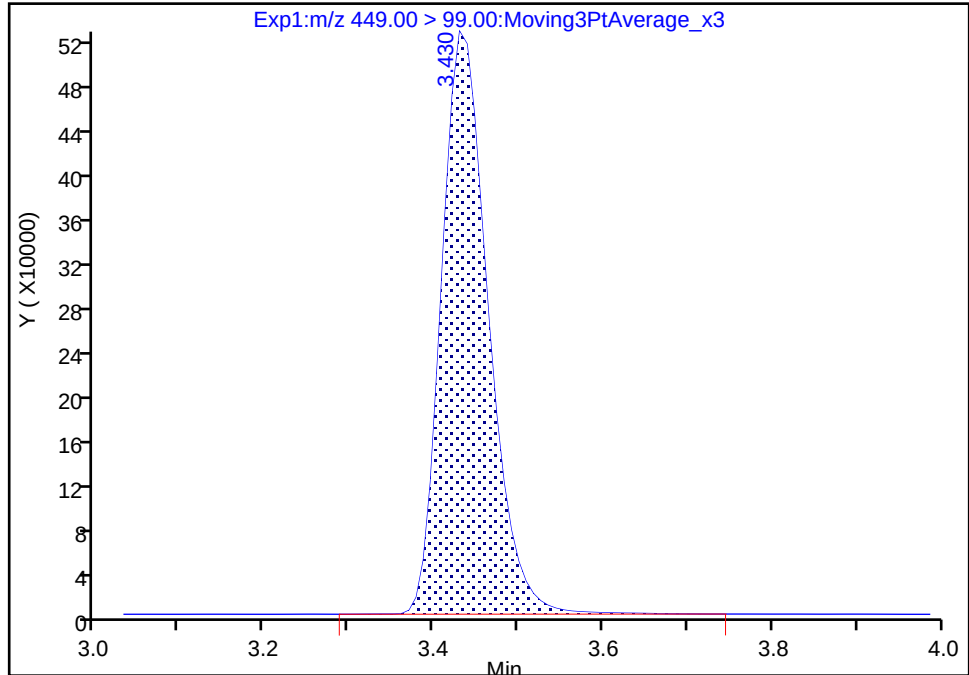
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

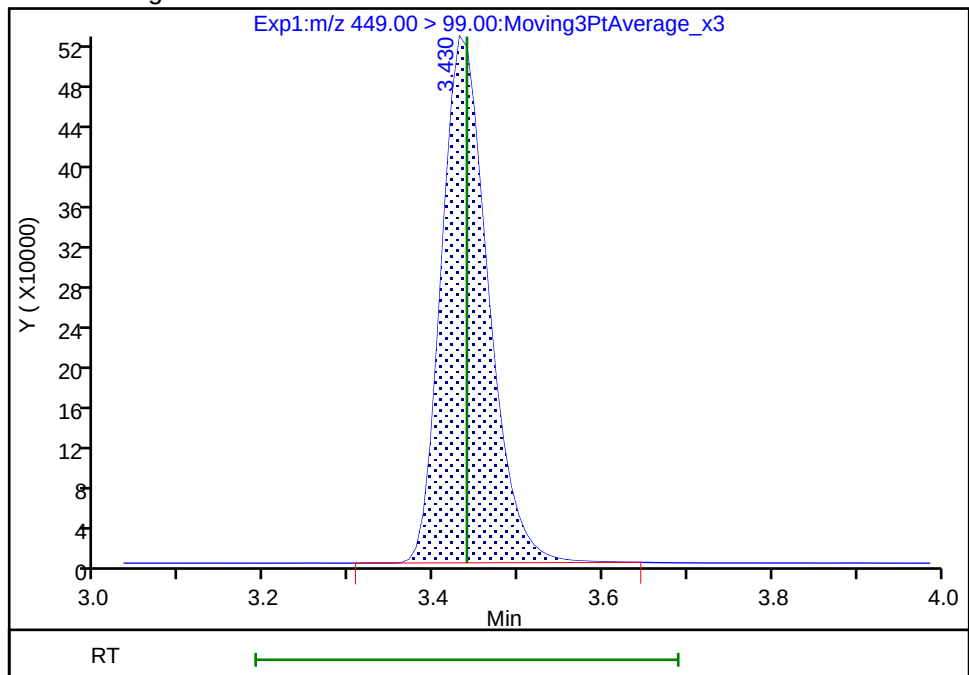
RT: 3.43
Area: 1997290
Amount: 8.801285
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1989808
Amount: 8.757178
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

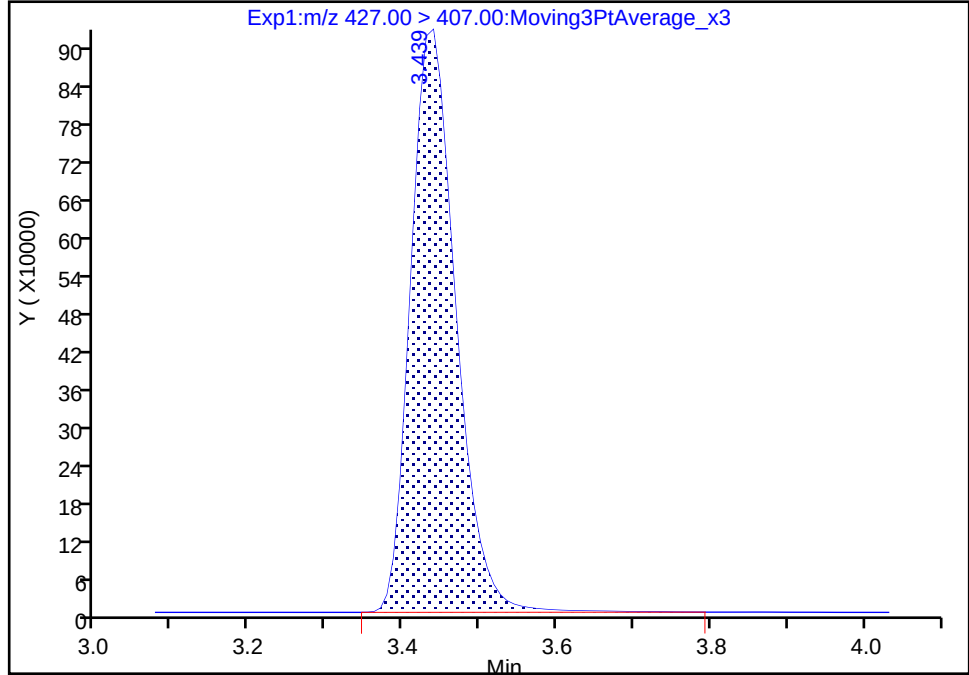
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

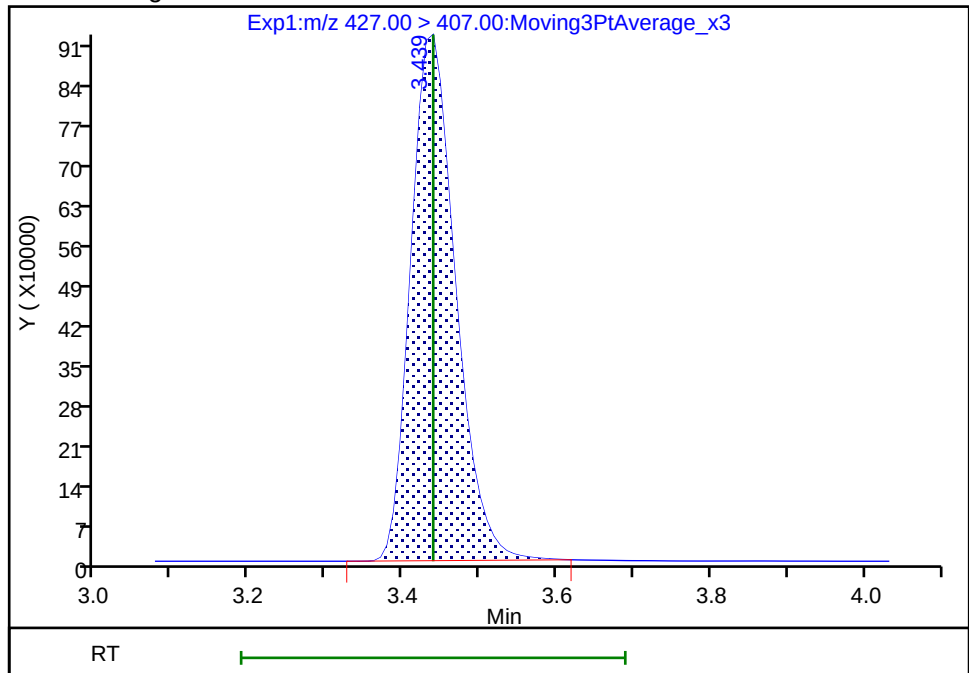
RT: 3.44
Area: 3774301
Amount: 8.926391
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 3743844
Amount: 9.473646
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

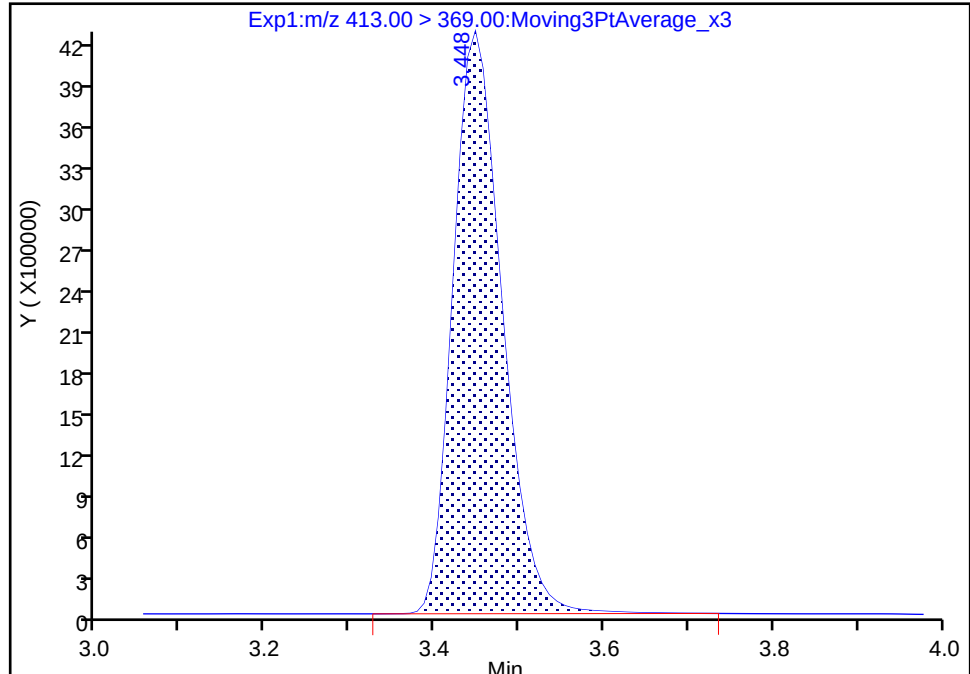
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

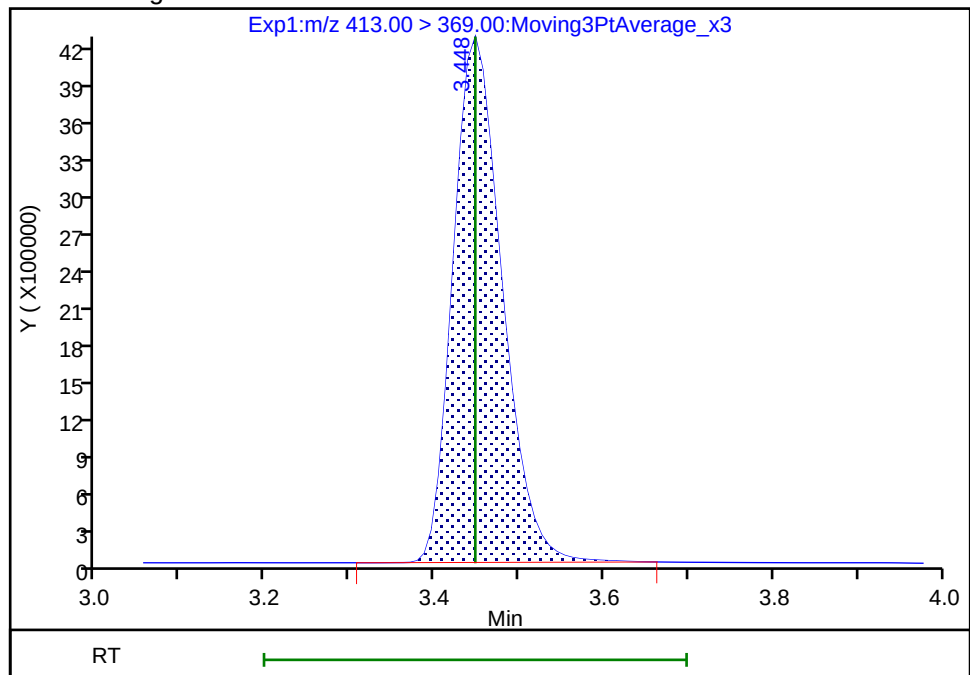
RT: 3.45
Area: 17030570
Amount: 9.031728
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 16977289
Amount: 9.007714
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

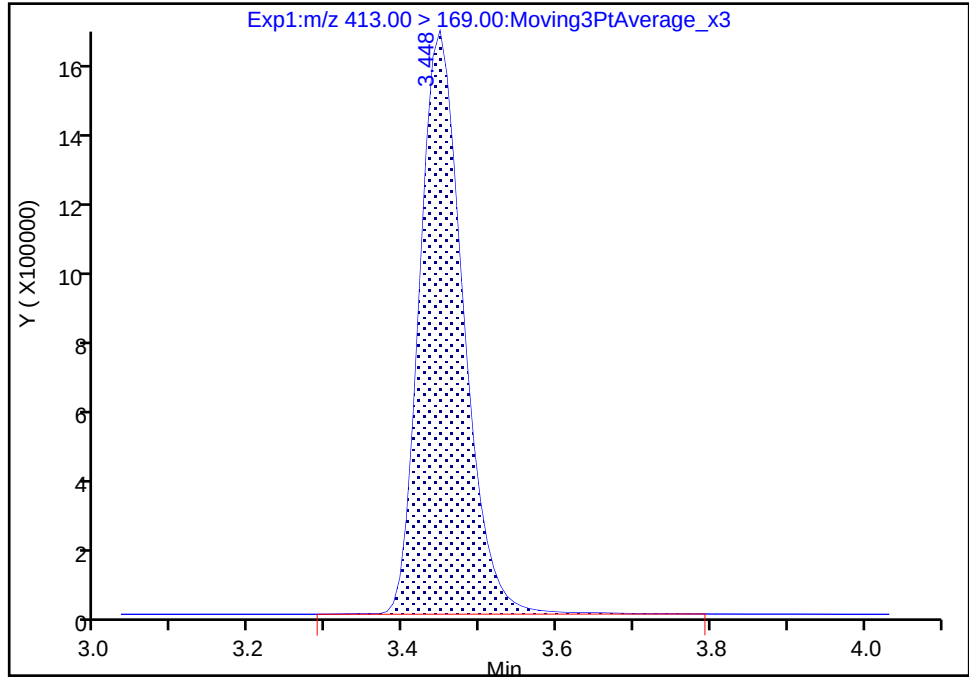
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

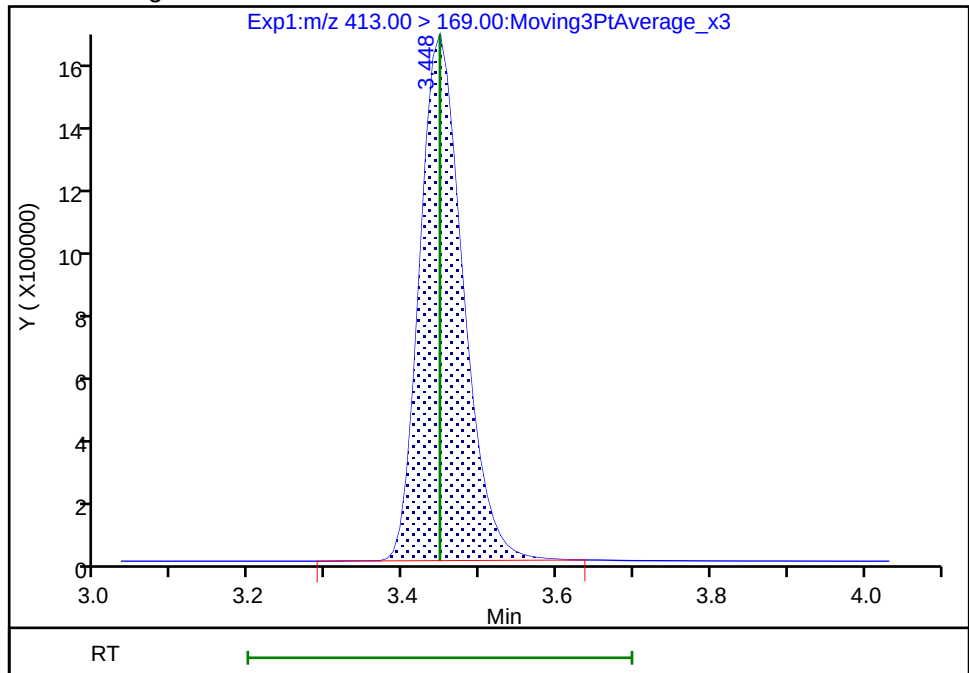
RT: 3.45
Area: 6304212
Amount: 9.031728
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 6260421
Amount: 9.007714
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

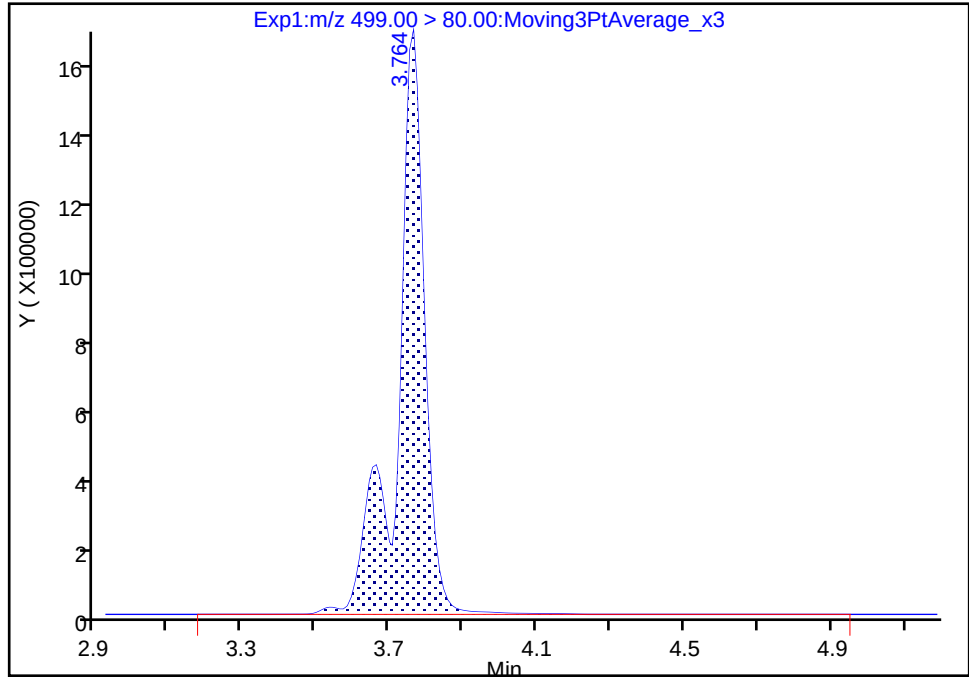
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

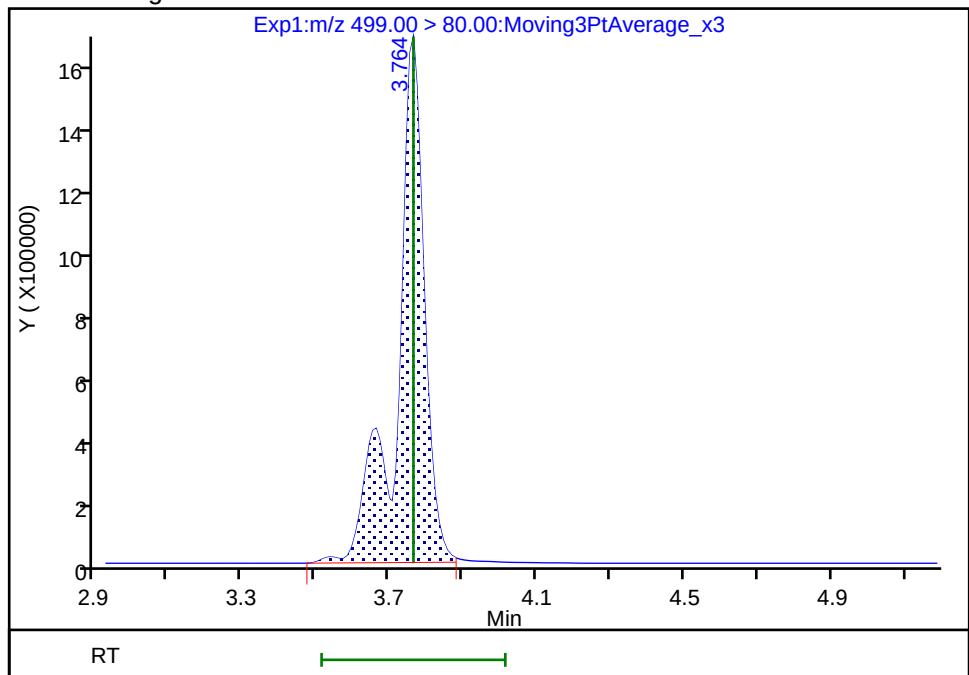
RT: 3.76
Area: 8658897
Amount: 8.543354
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 8534676
Amount: 8.439368
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

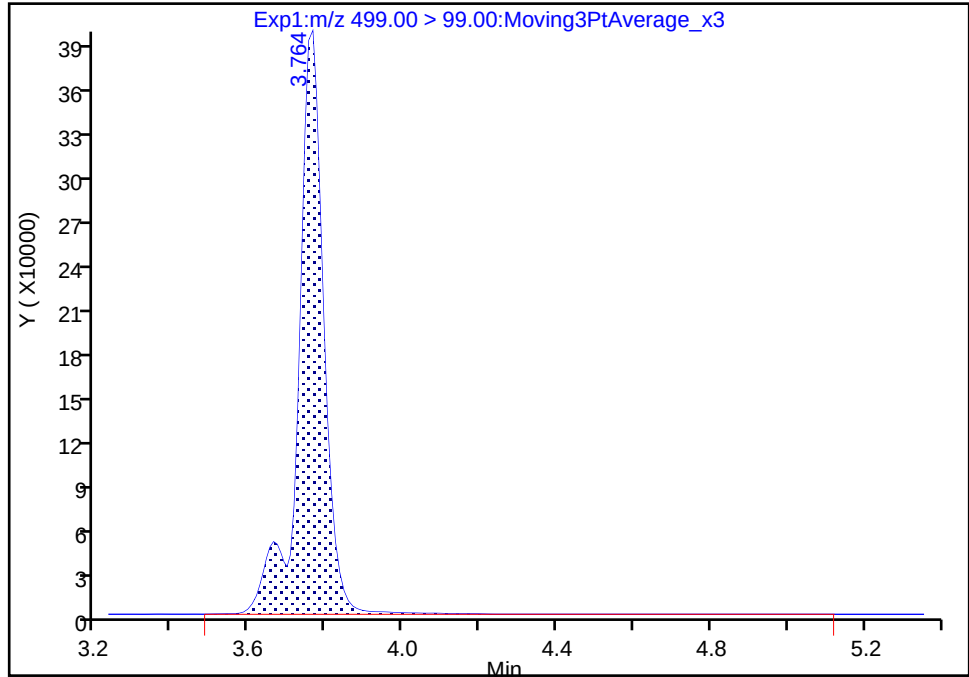
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

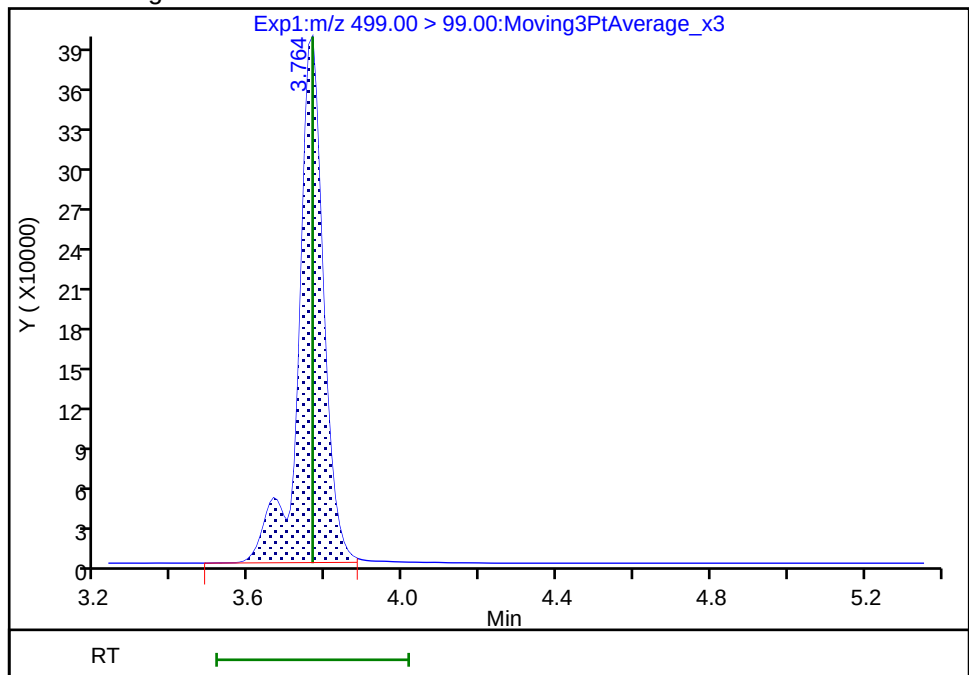
RT: 3.76
Area: 1795864
Amount: 8.543354
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1770034
Amount: 8.439368
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

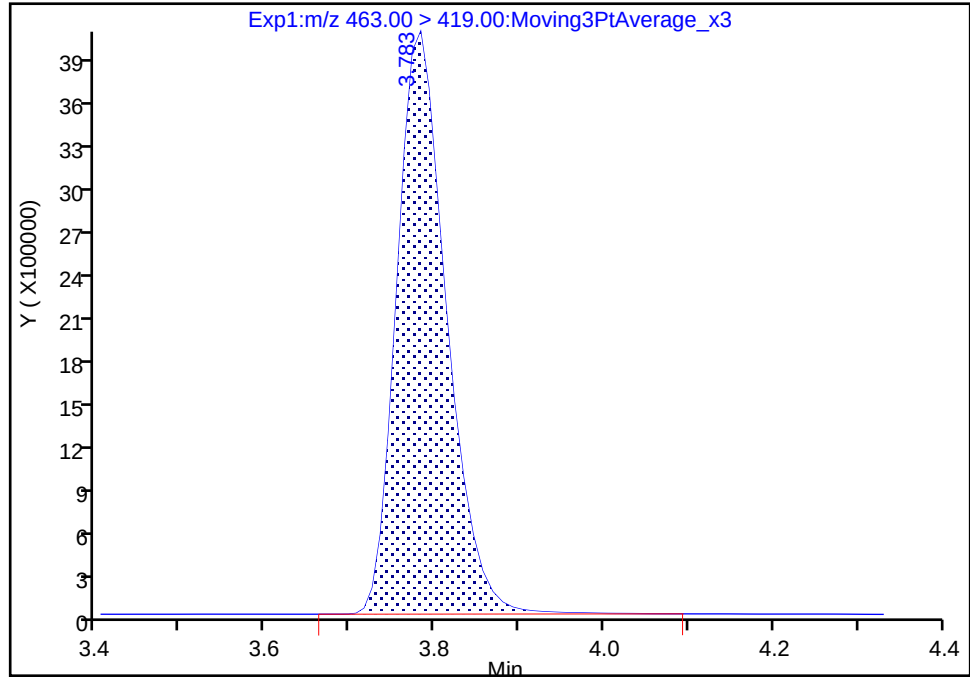
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

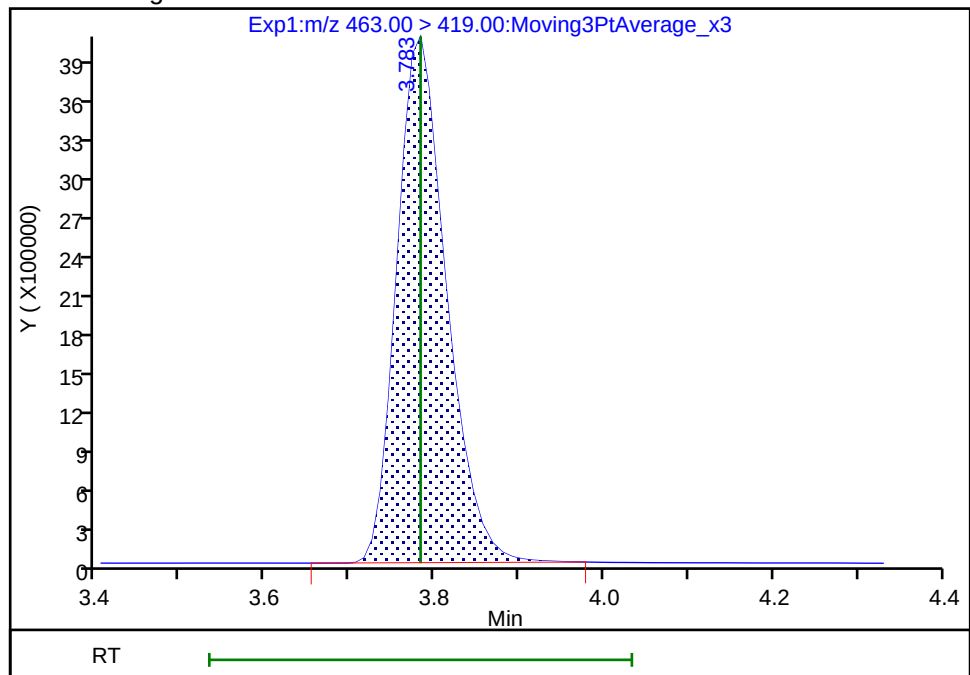
RT: 3.78
Area: 16420625
Amount: 9.401886
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 16342622
Amount: 9.364194
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

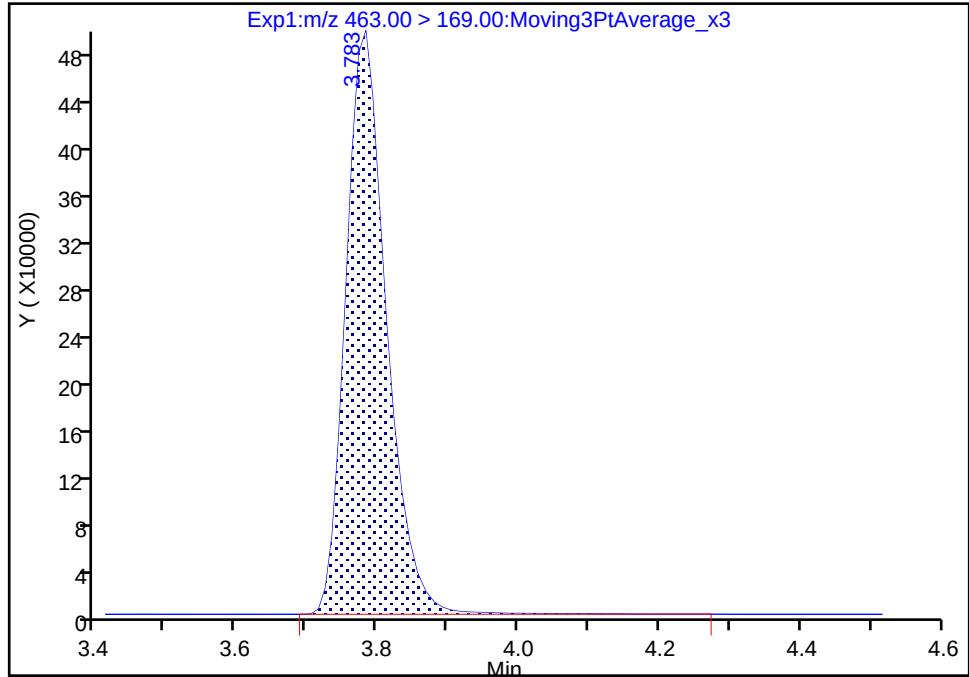
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

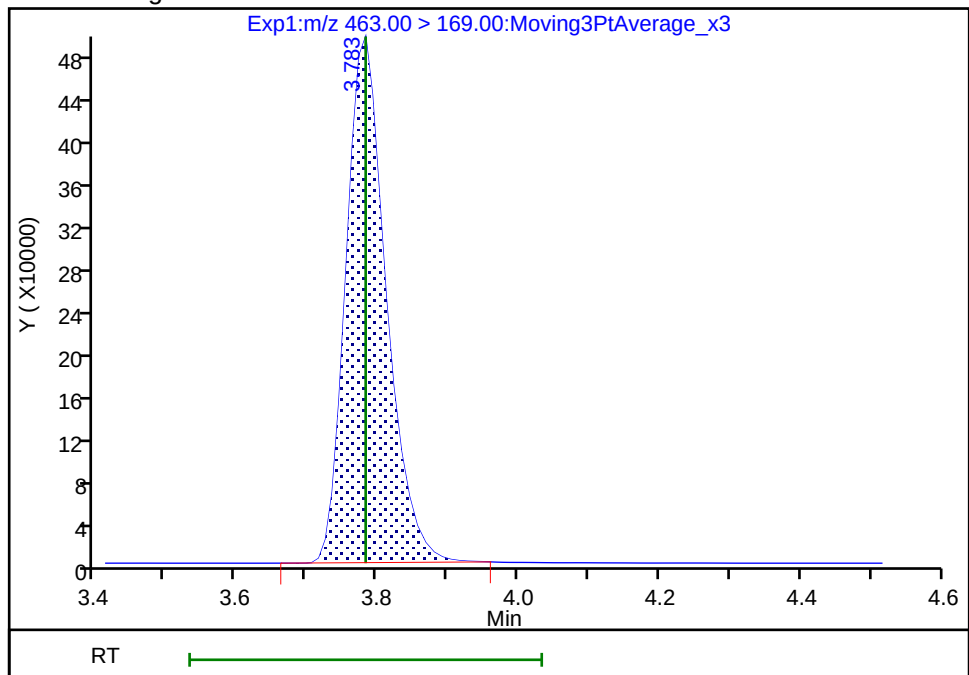
RT: 3.78
Area: 1954132
Amount: 9.401886
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 1938179
Amount: 9.364194
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

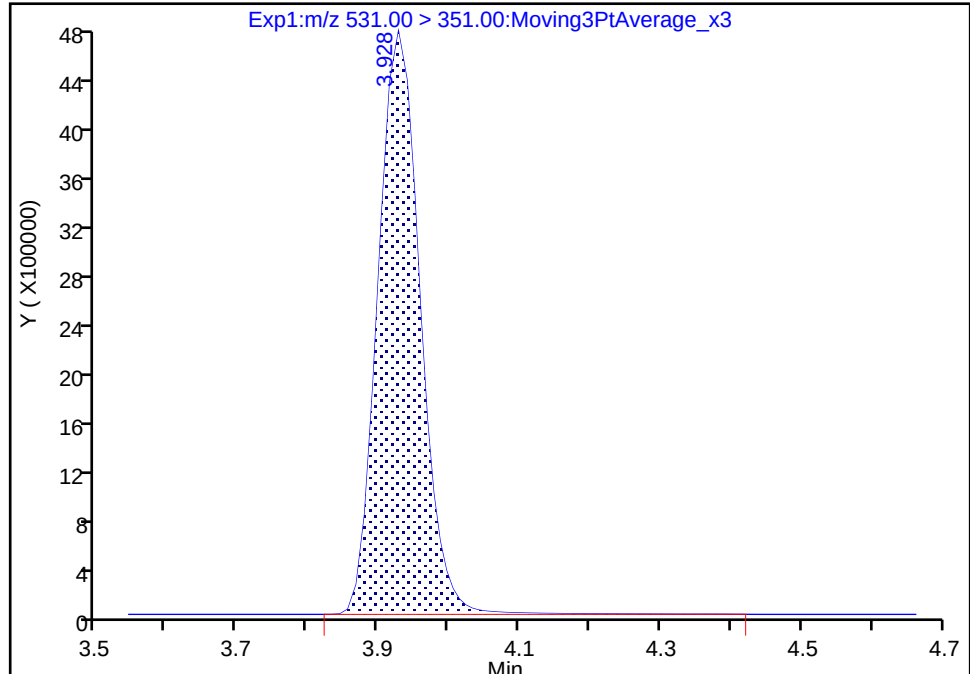
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

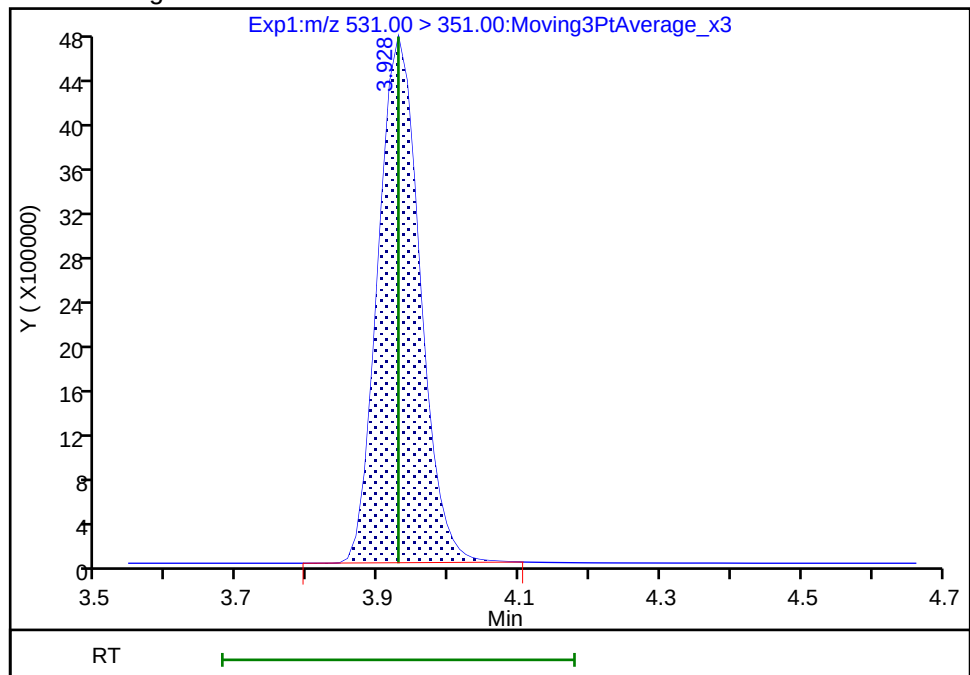
RT: 3.93
Area: 19643577
Amount: 8.453015
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 19485090
Amount: 8.395054
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

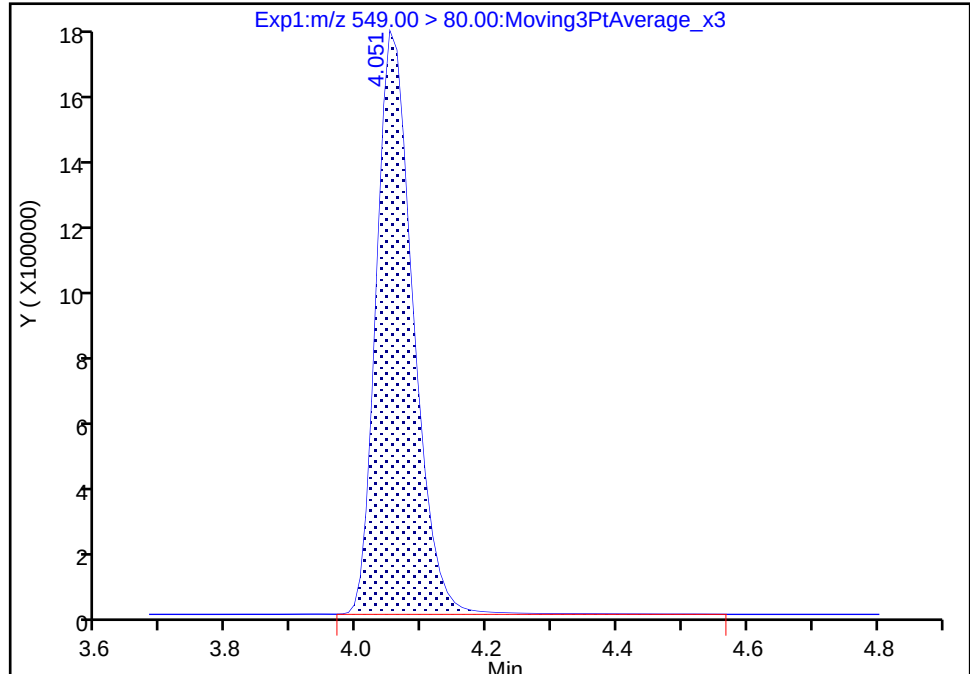
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

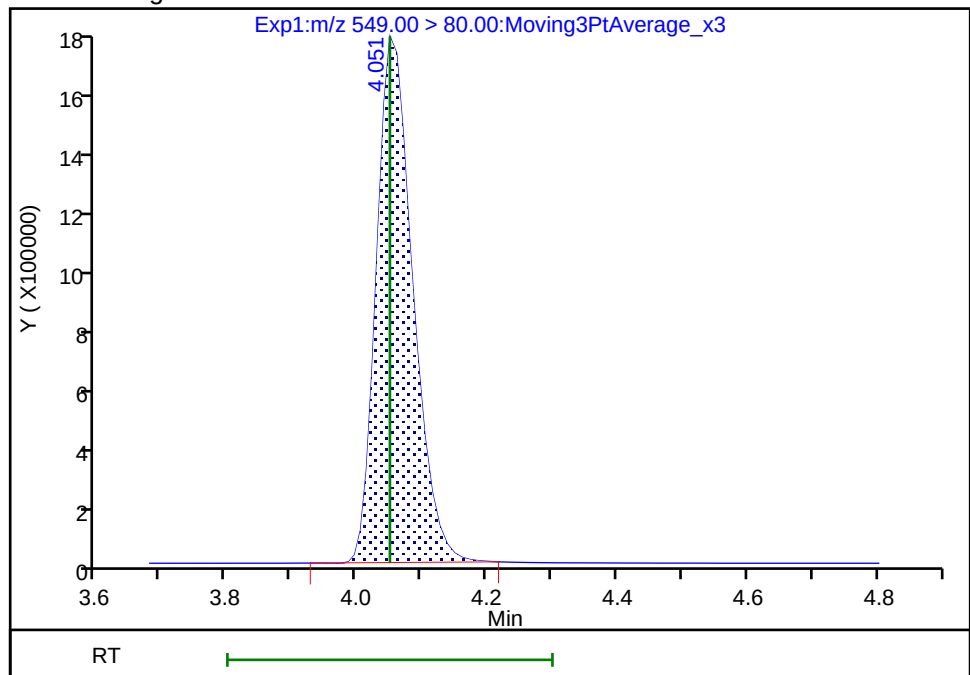
RT: 4.05
Area: 6901061
Amount: 9.026930
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 6831873
Amount: 8.950492
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

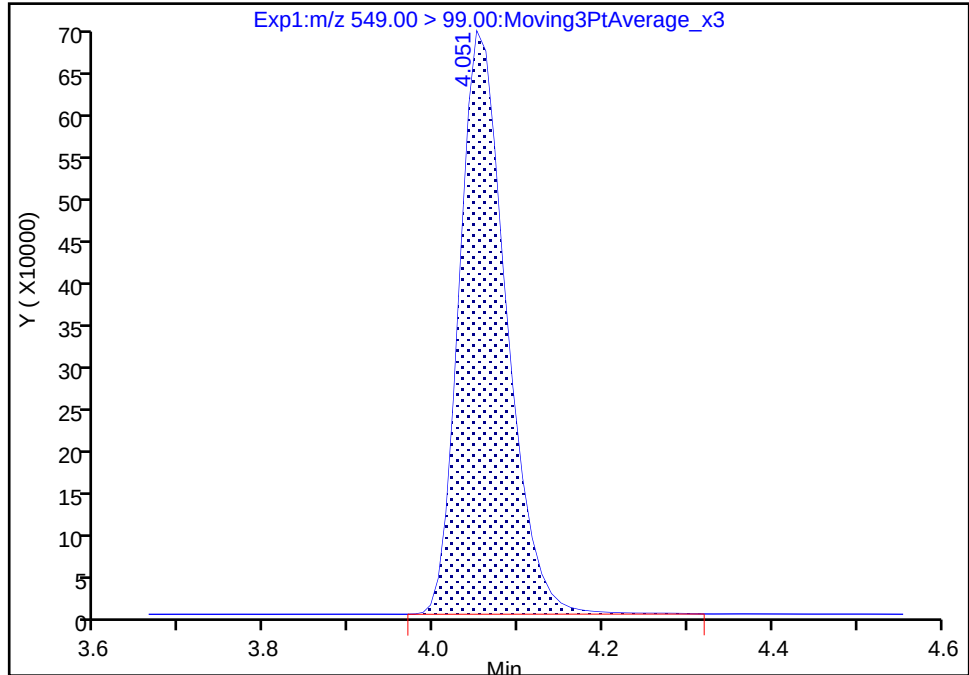
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

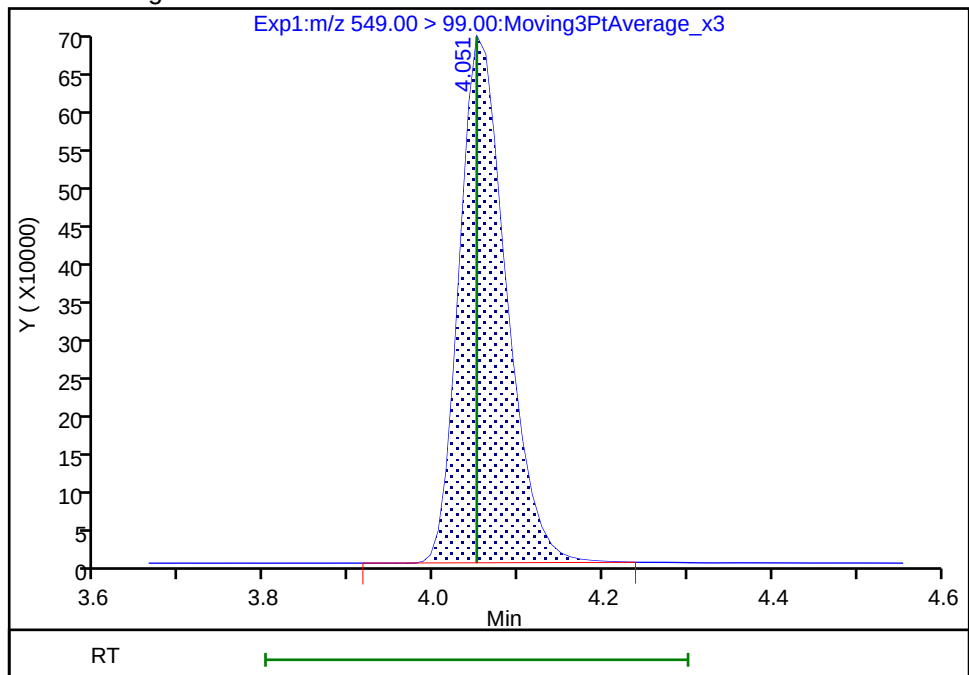
RT: 4.05
Area: 2665260
Amount: 9.026930
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 2652769
Amount: 8.950492
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

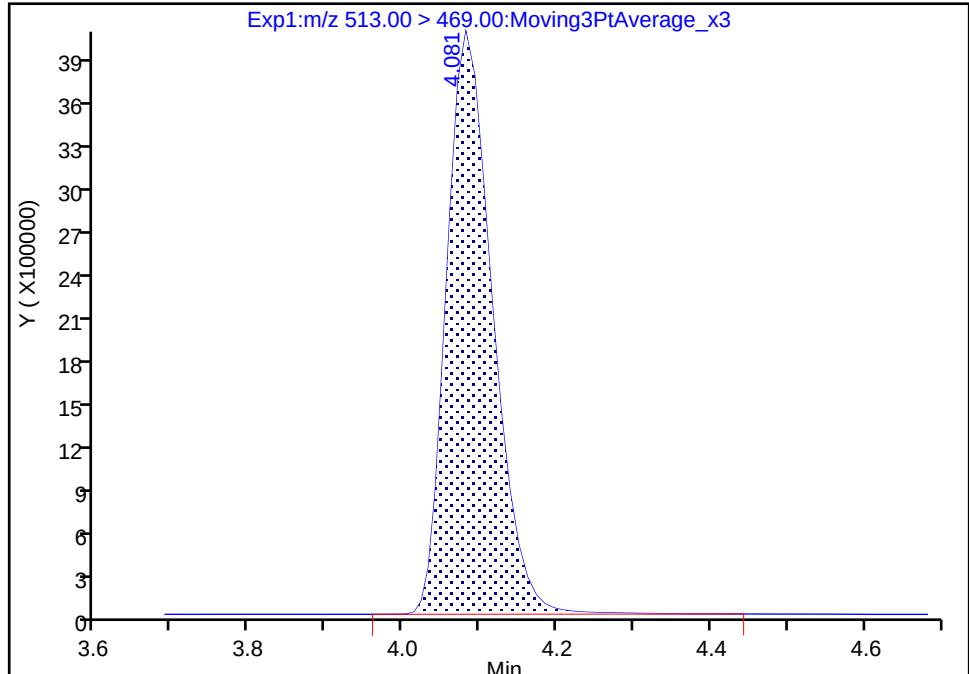
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

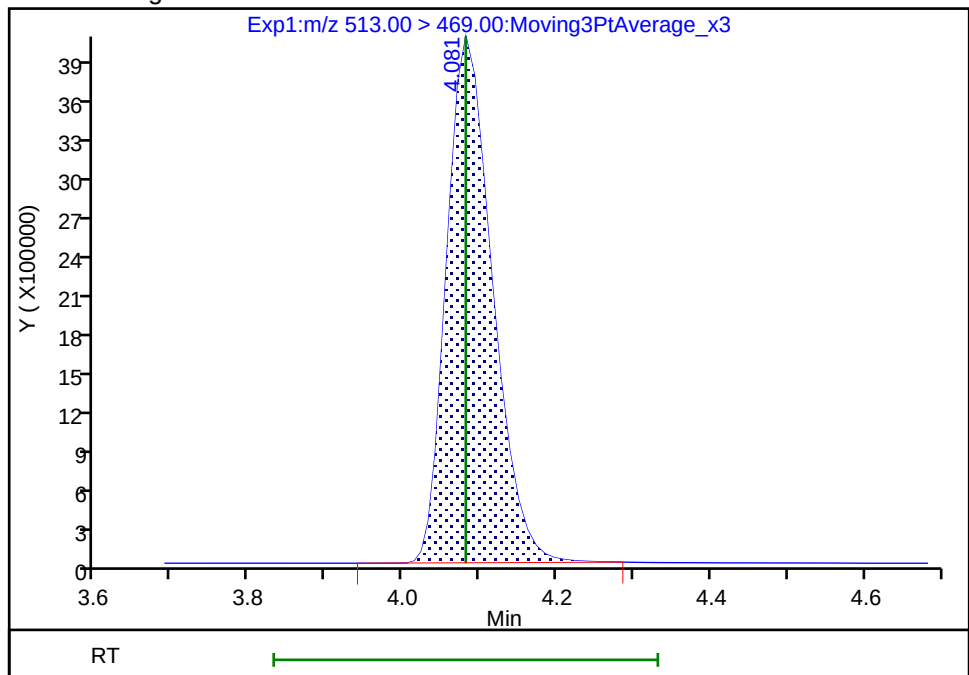
RT: 4.08
Area: 16777487
Amount: 8.666535
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 16688874
Amount: 8.627343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

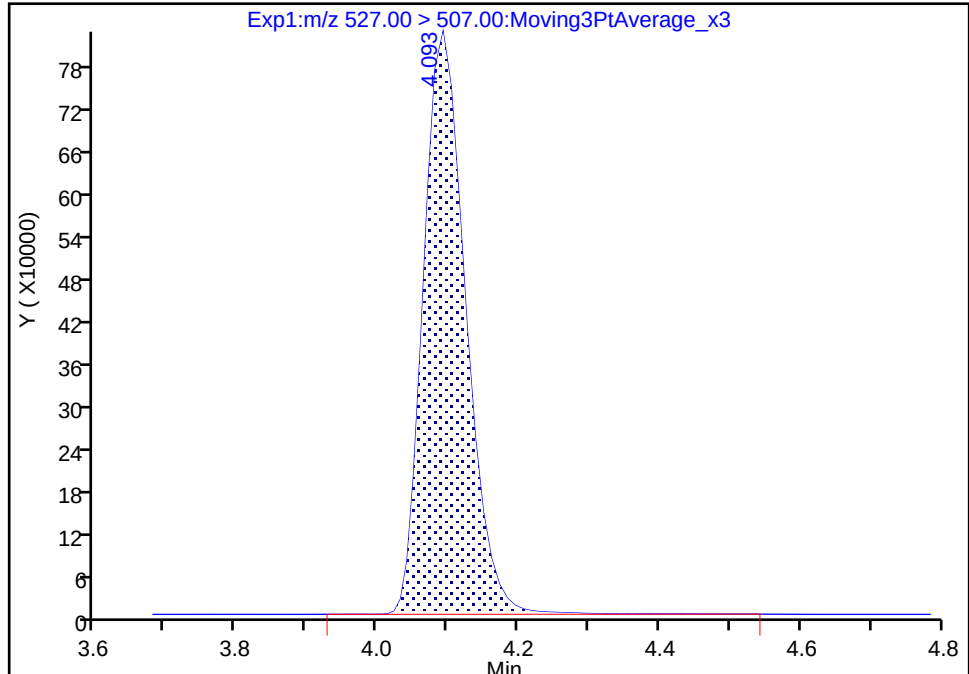
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

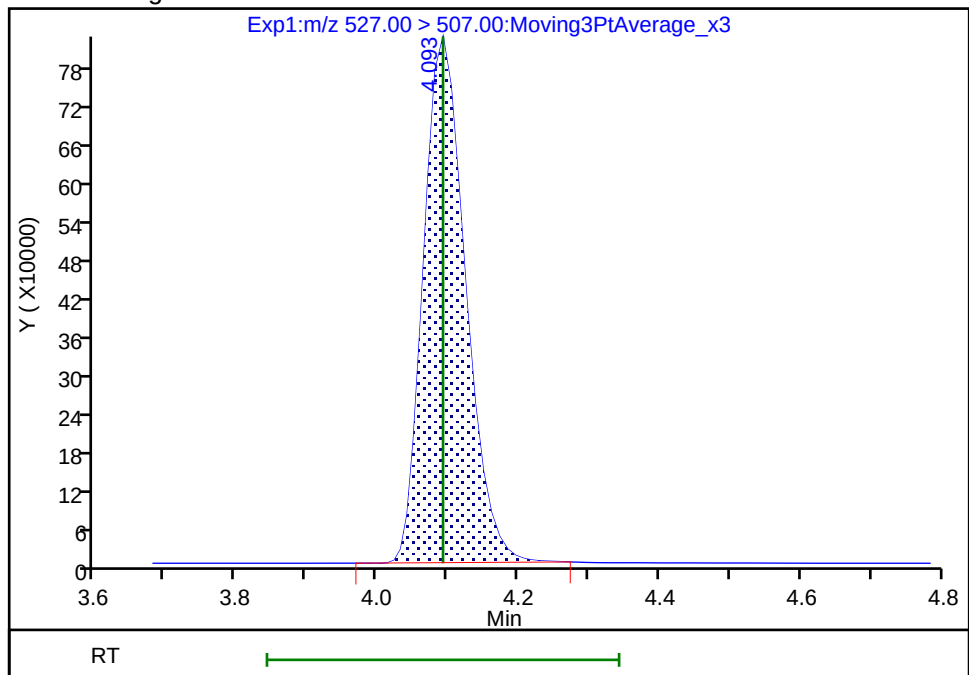
RT: 4.09
Area: 3456510
Amount: 9.221521
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 3431863
Amount: 9.166252
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

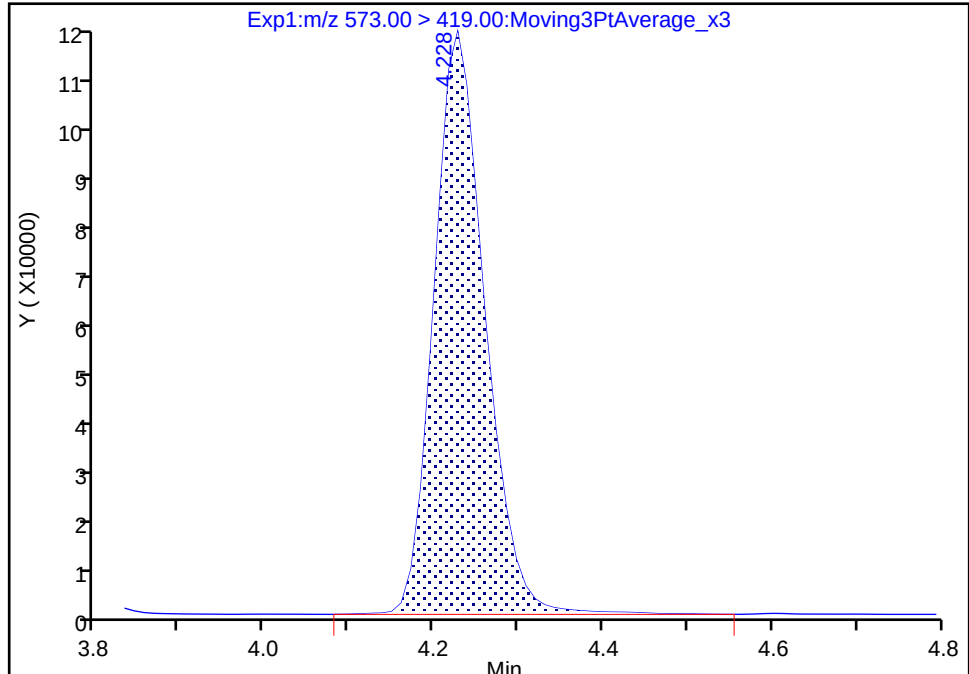
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

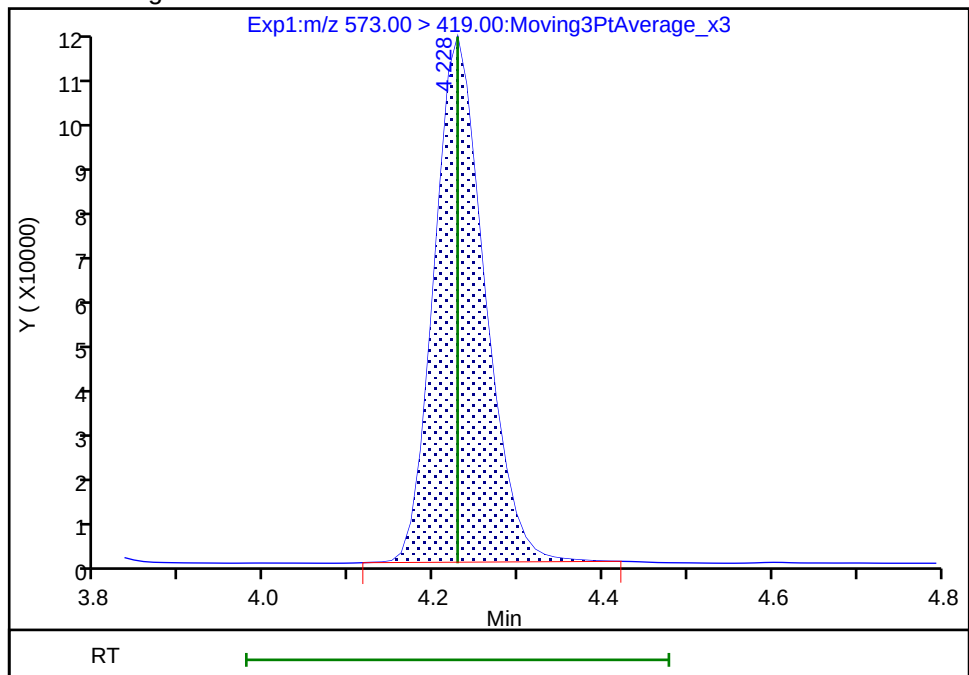
RT: 4.23
Area: 484787
Amount: 1.385223
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 478582
Amount: 1.370733
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

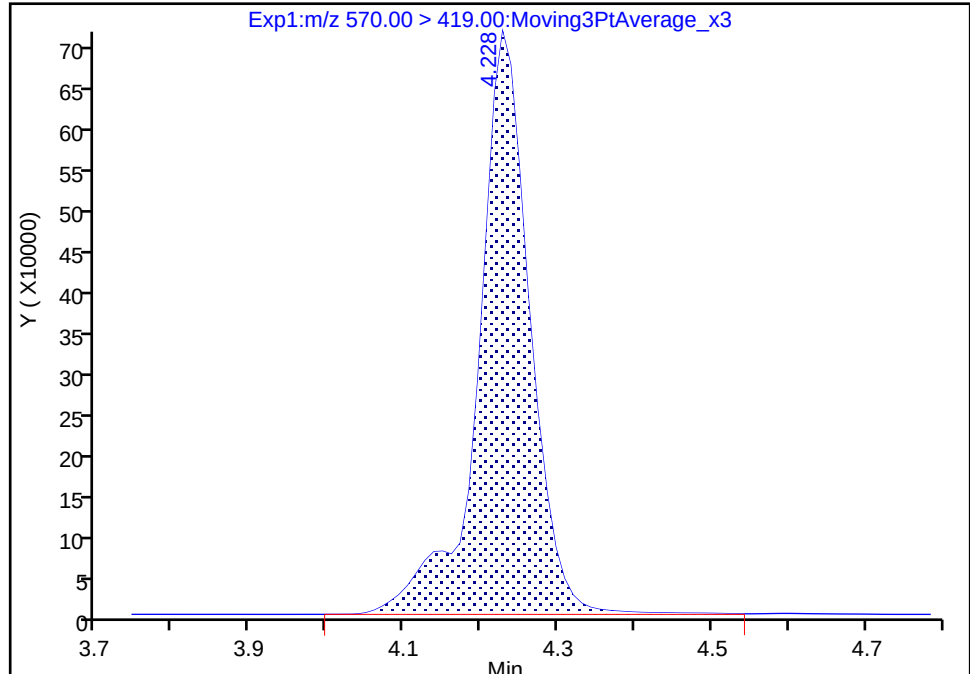
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

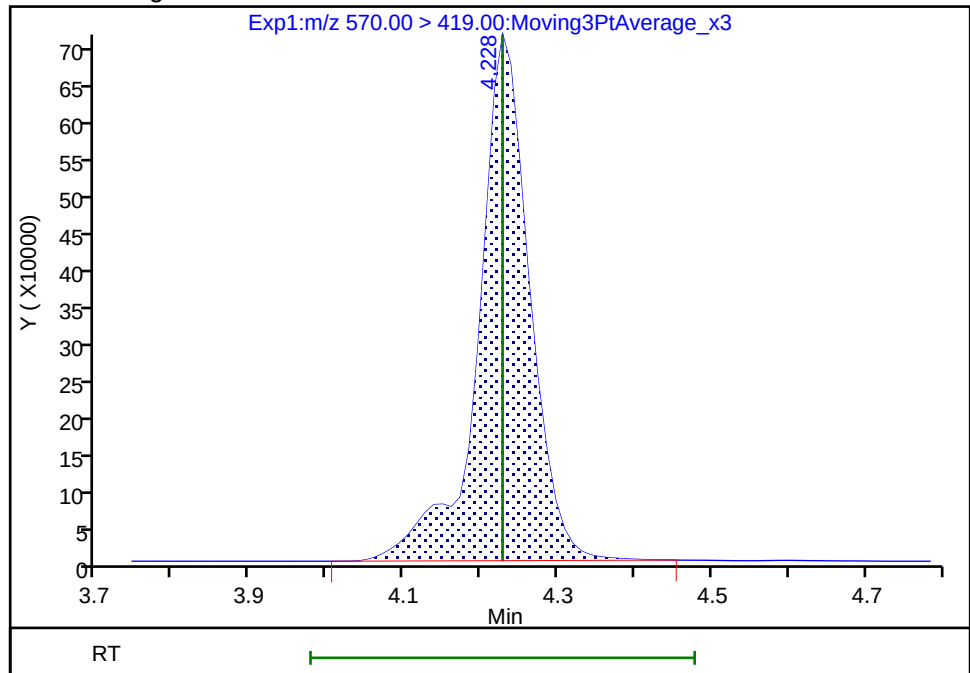
RT: 4.23
Area: 3324827
Amount: 9.466992
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 3297027
Amount: 9.998842
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

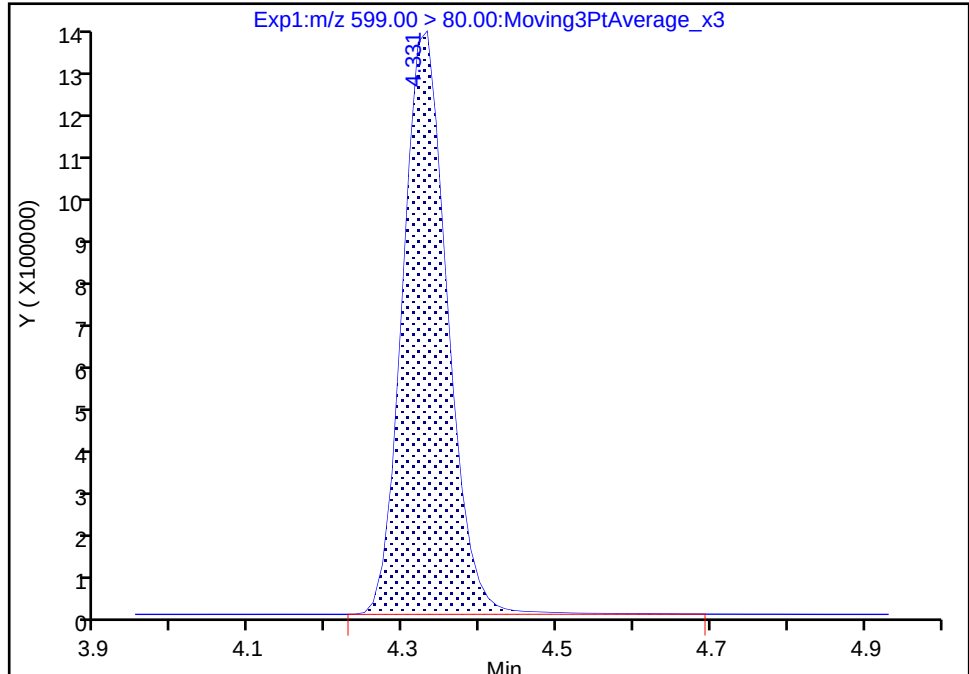
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

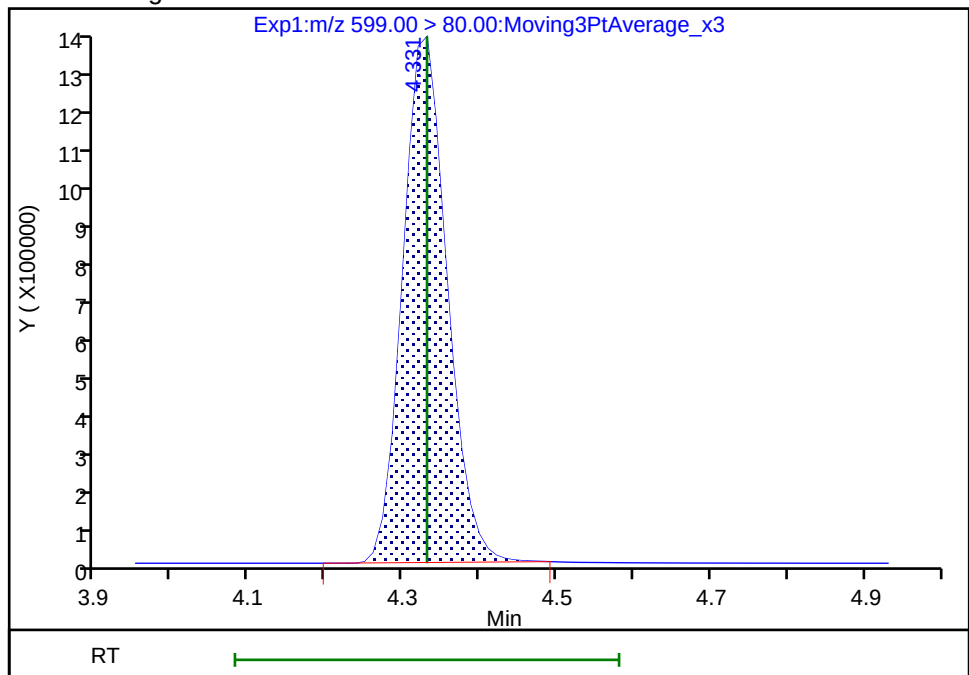
RT: 4.33
Area: 5598329
Amount: 9.275714
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 5548668
Amount: 9.206529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

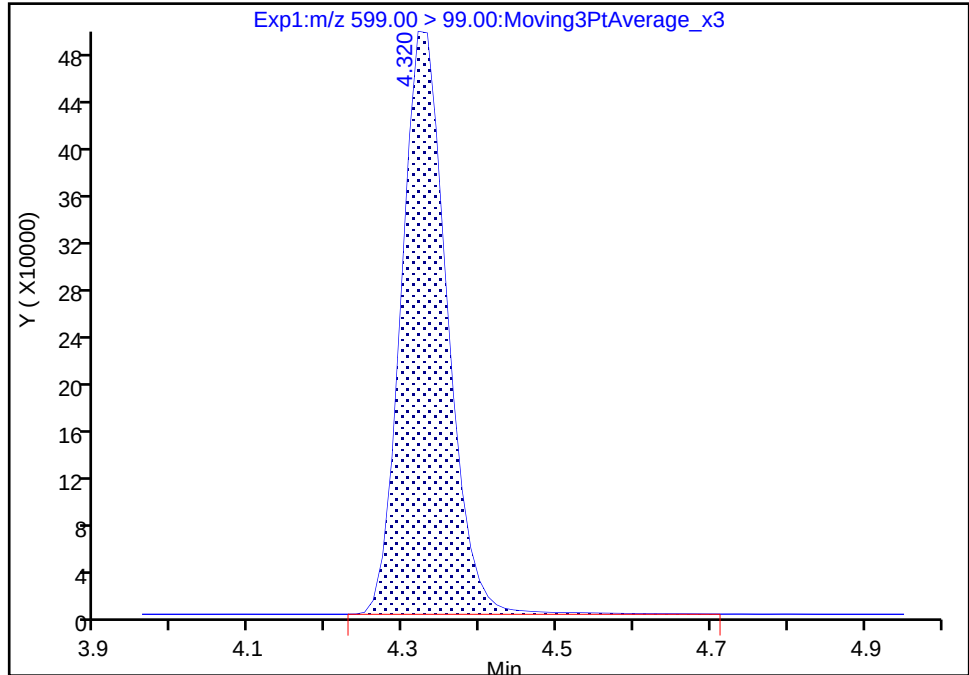
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

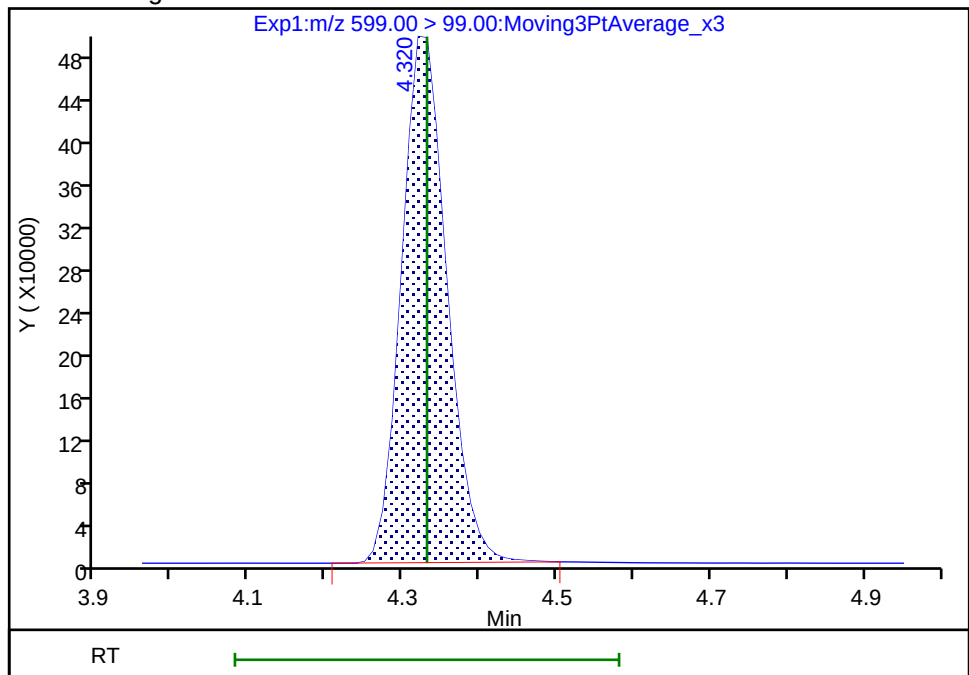
RT: 4.32
Area: 2054689
Amount: 9.275714
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 2036543
Amount: 9.206529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

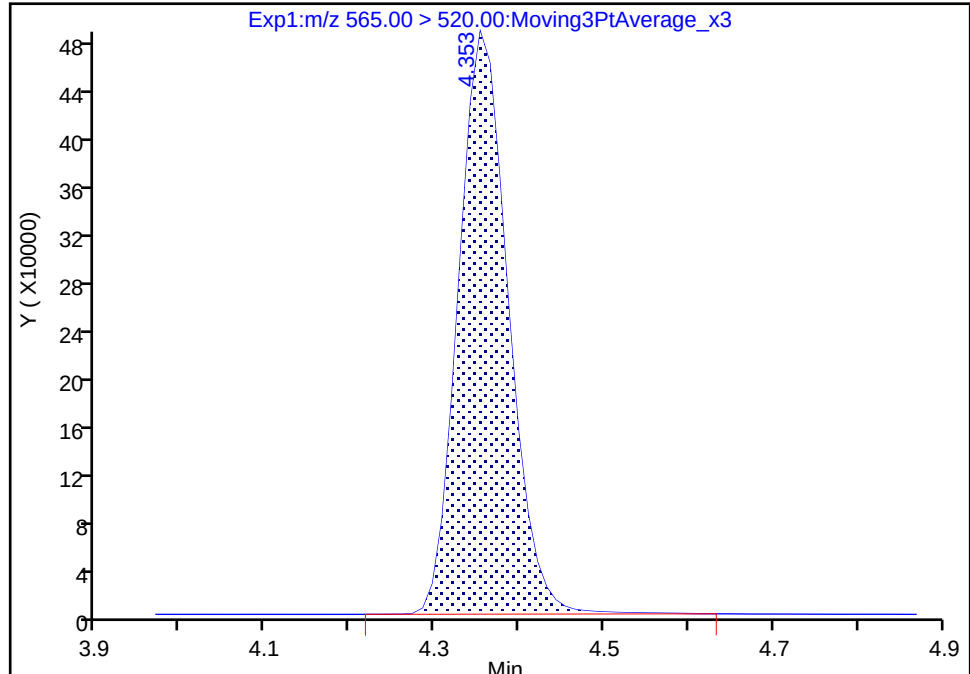
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

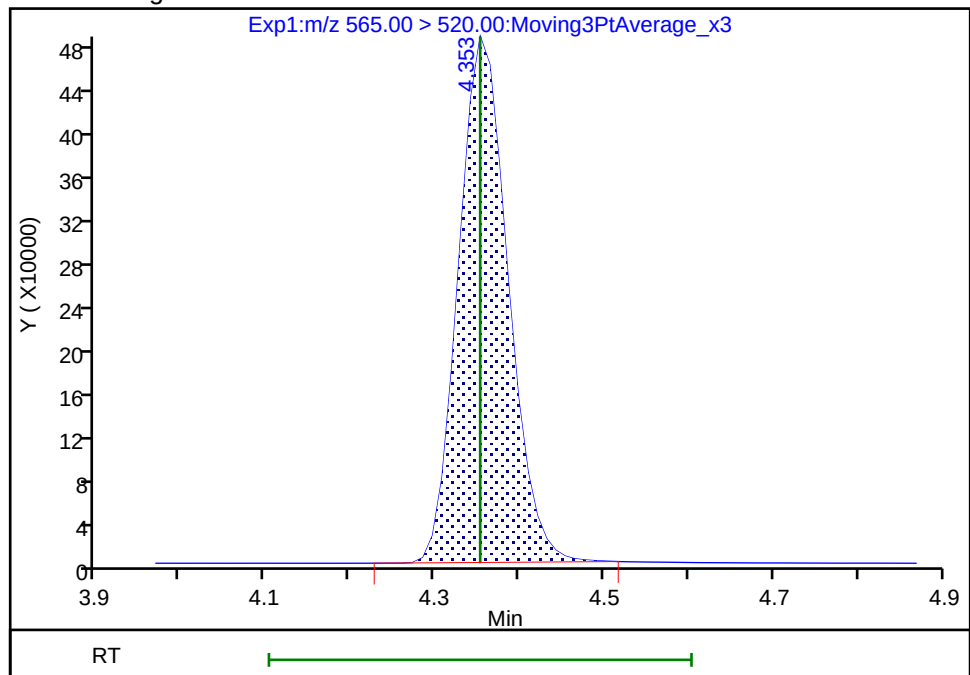
RT: 4.35
Area: 1981457
Amount: 1.260398
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1967361
Amount: 1.252929
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

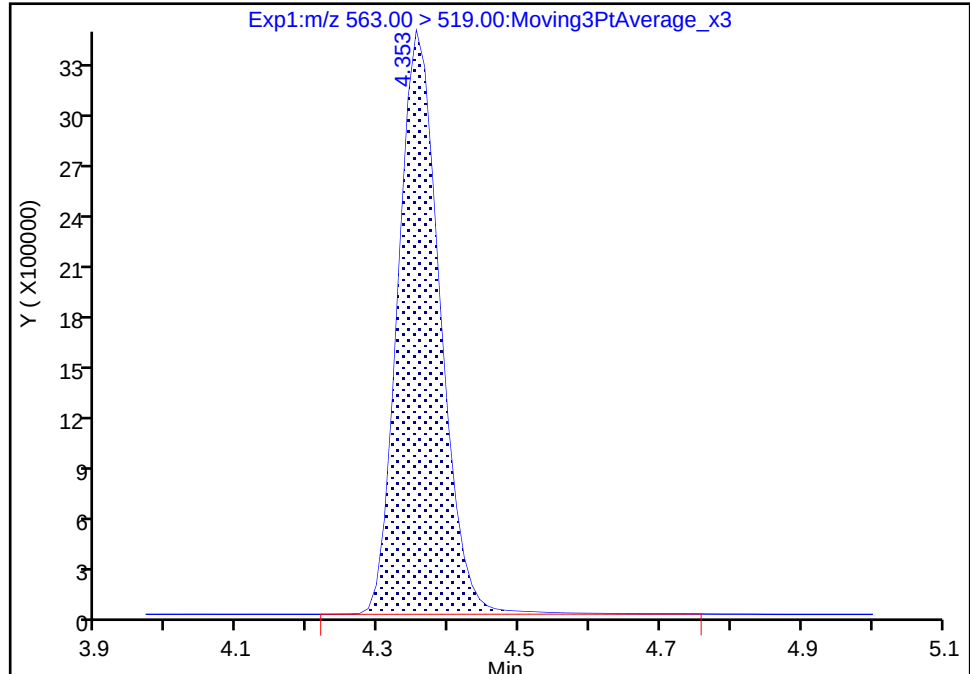
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

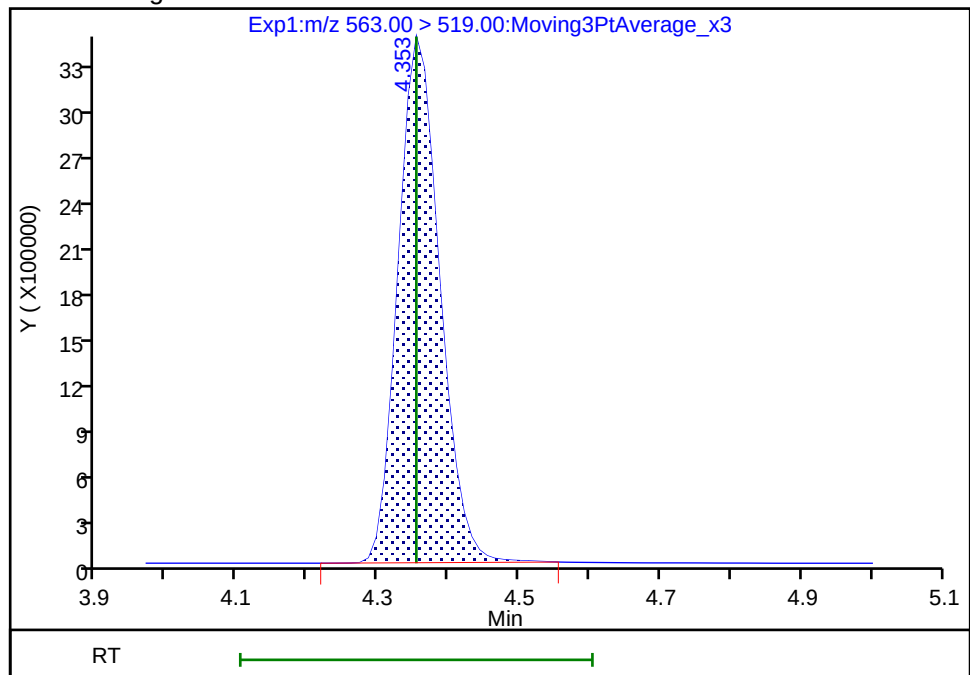
RT: 4.35
Area: 14261306
Amount: 8.982281
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 14168517
Amount: 8.932539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

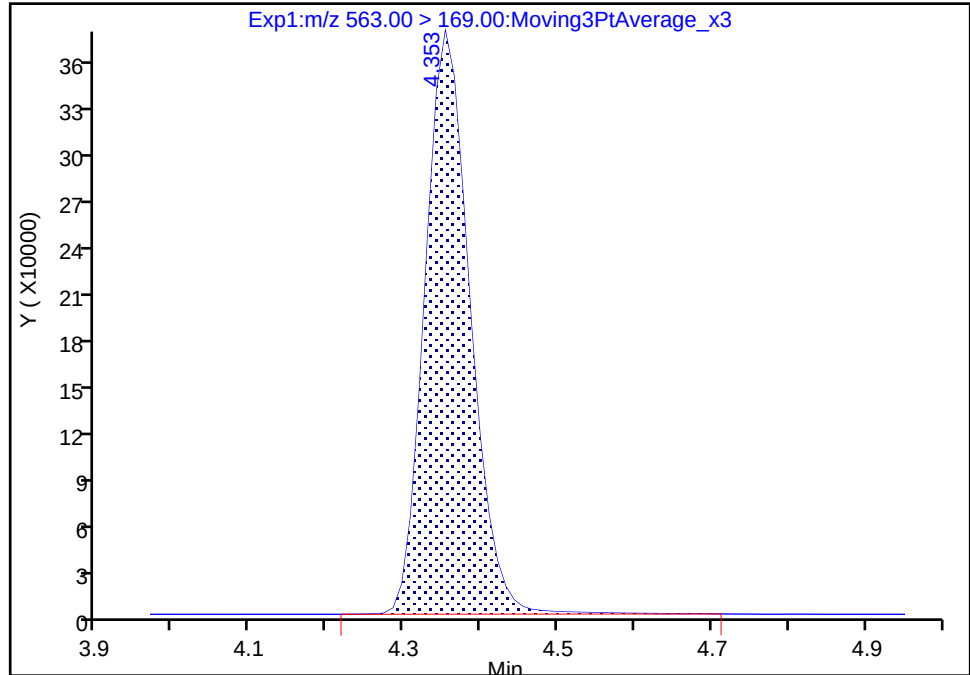
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

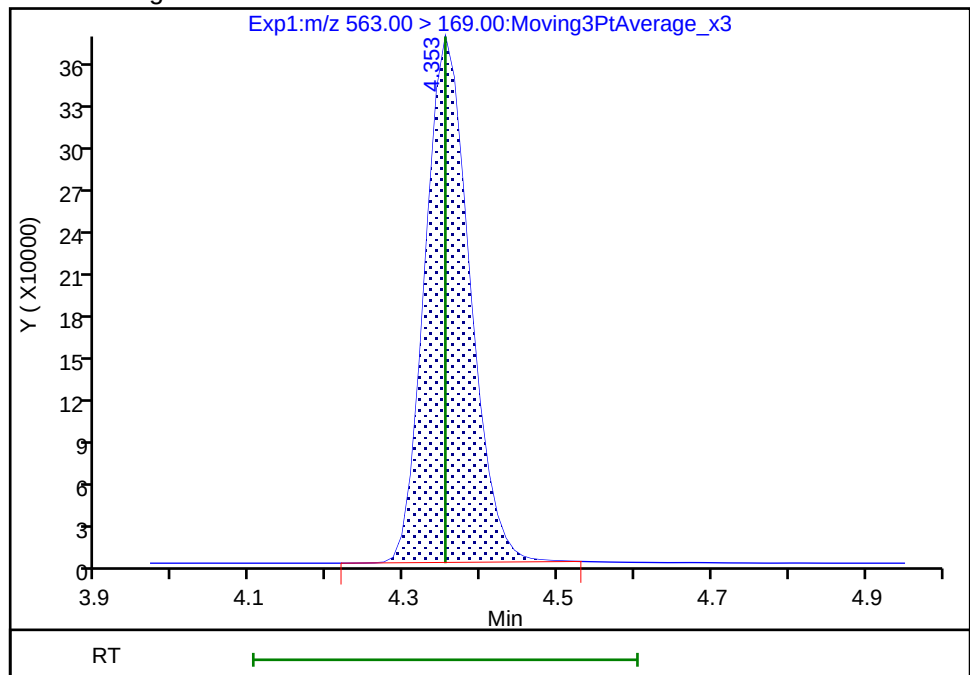
RT: 4.35
Area: 1516832
Amount: 8.982281
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1502685
Amount: 8.932539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

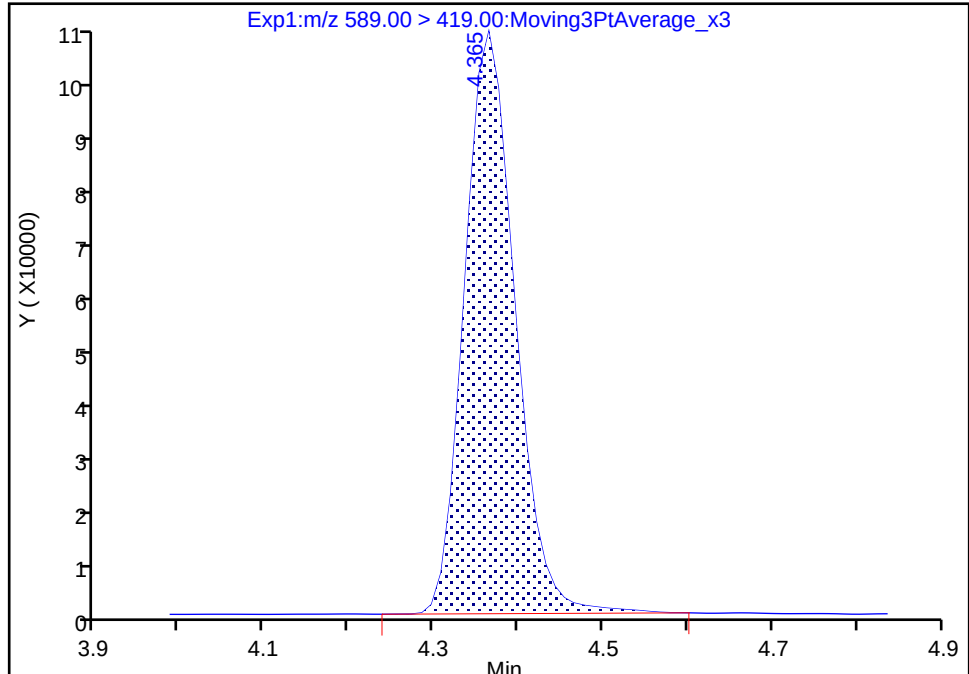
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

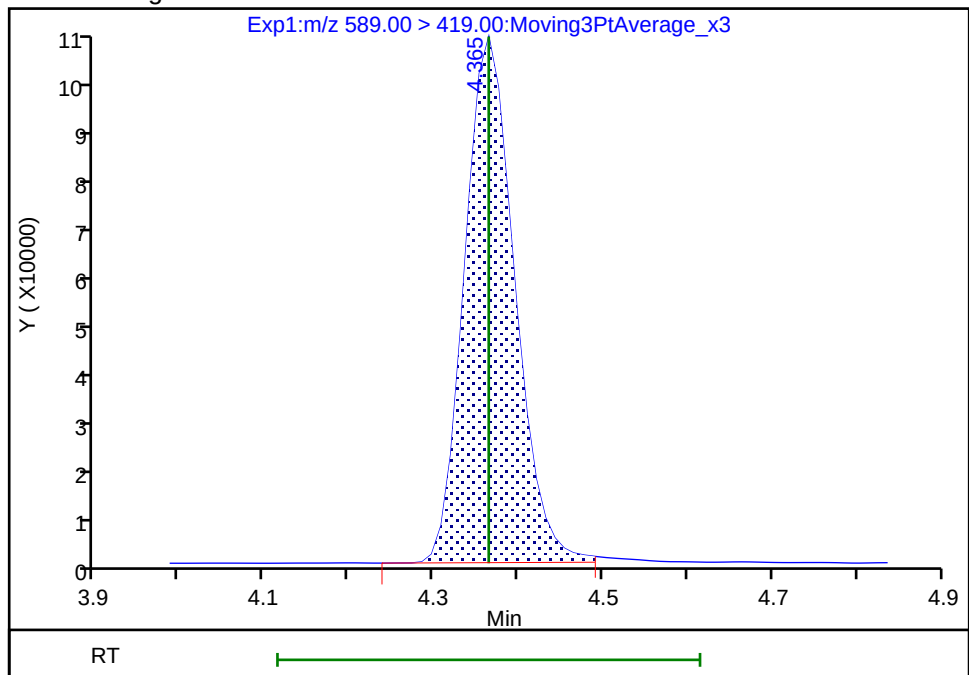
RT: 4.36
Area: 447944
Amount: 1.301468
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 444955
Amount: 1.294283
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

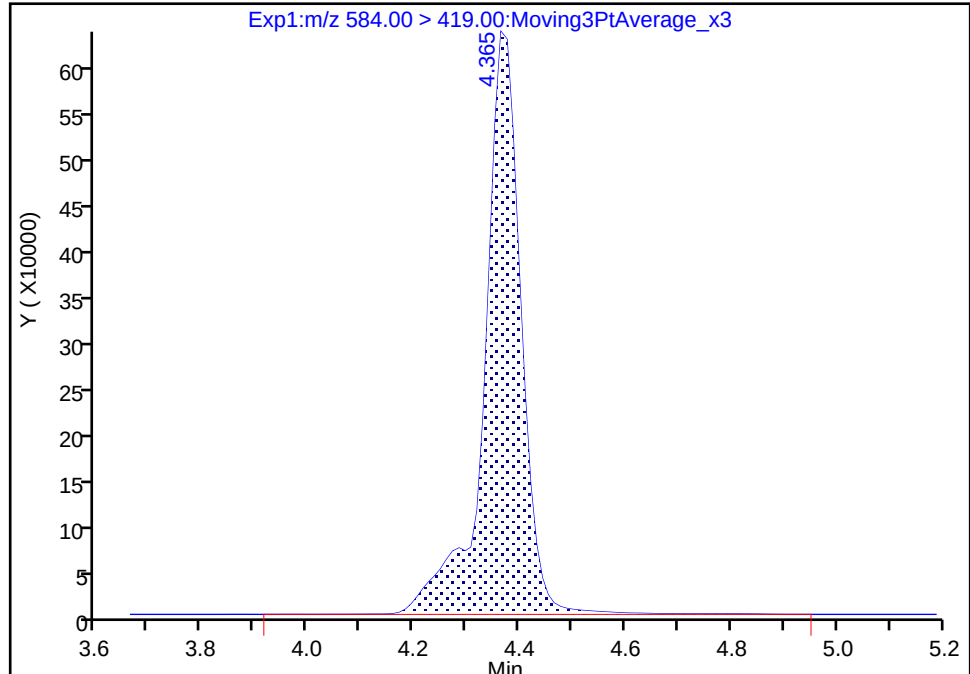
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

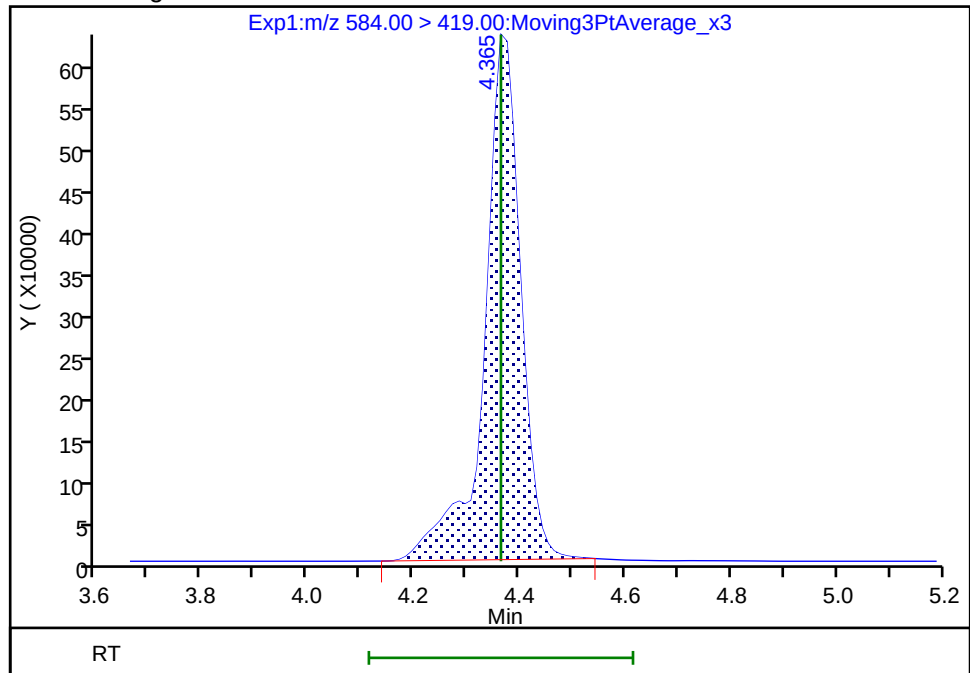
RT: 4.36
Area: 3053897
Amount: 9.498844
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 2992748
Amount: 9.391160
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

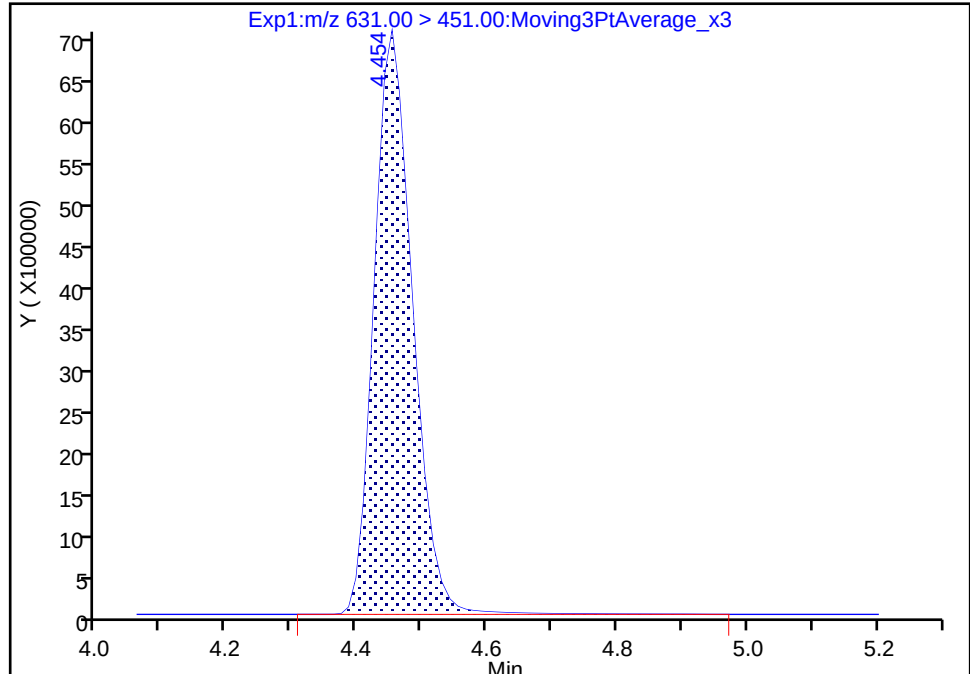
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

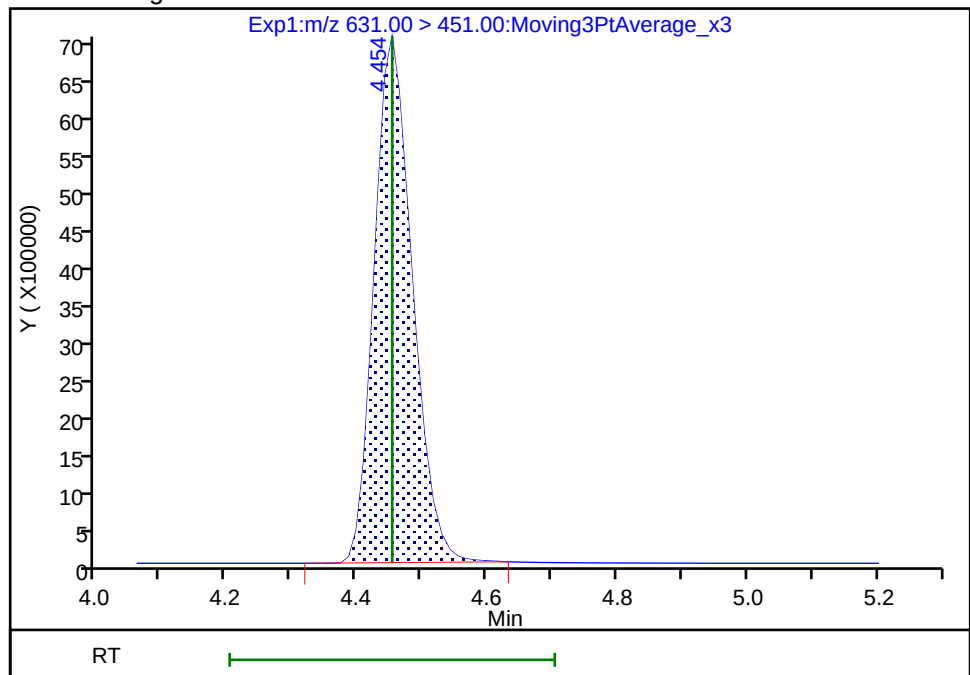
RT: 4.45
Area: 28876632
Amount: 8.059383
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 28587798
Amount: 7.990166
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

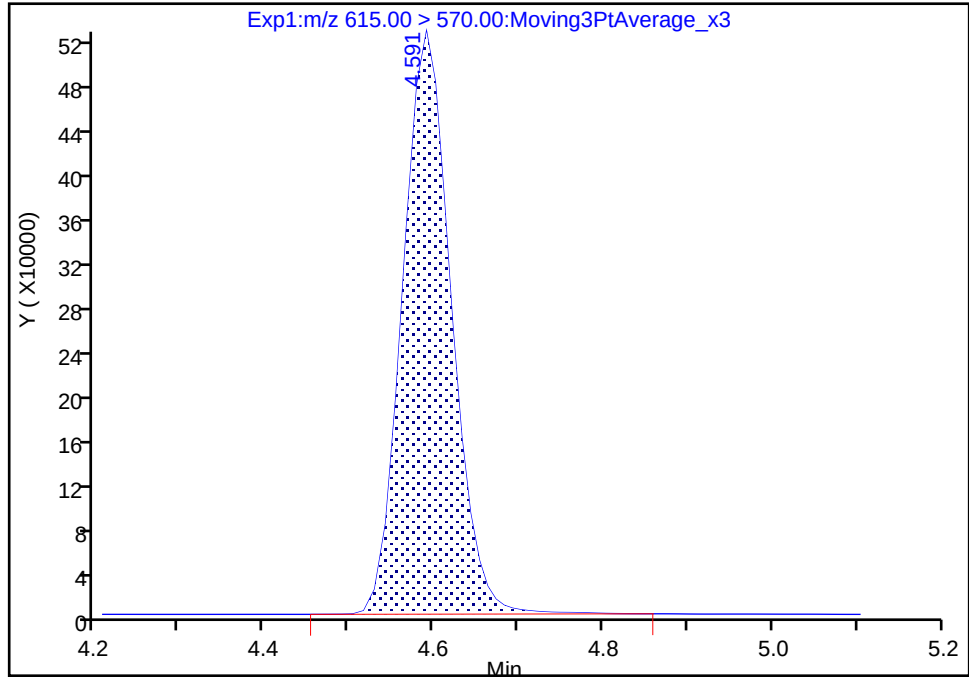
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

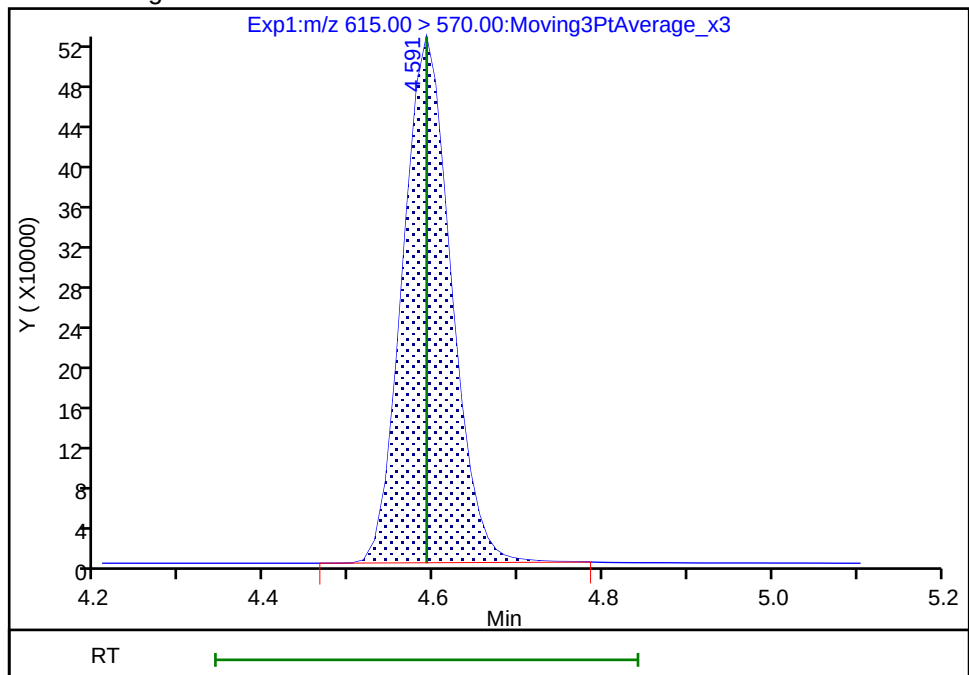
RT: 4.59
Area: 2112236
Amount: 1.319398
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 2103698
Amount: 1.315000
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

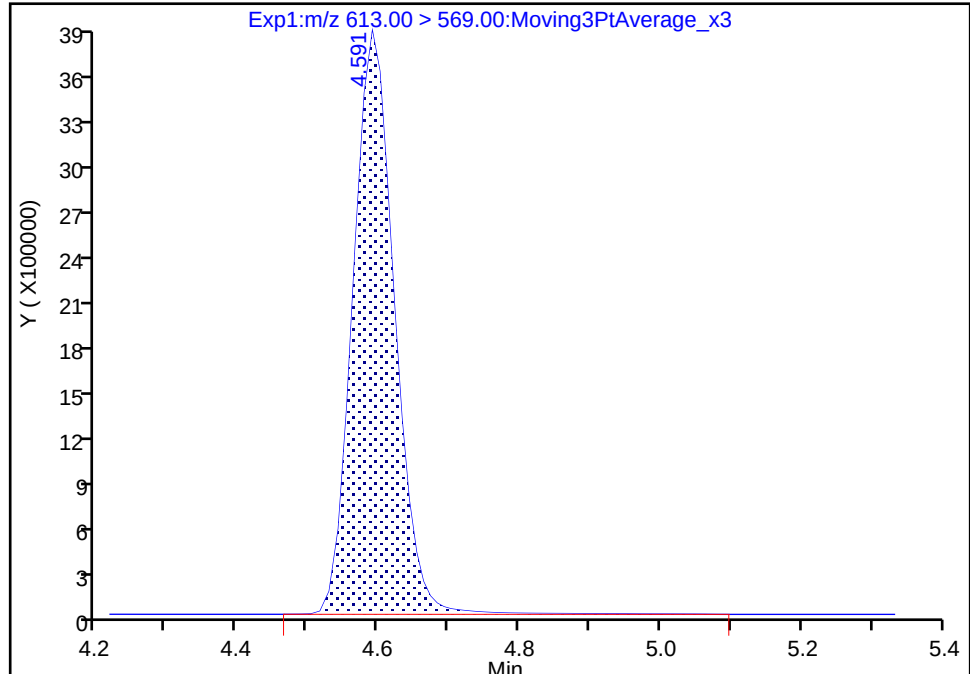
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

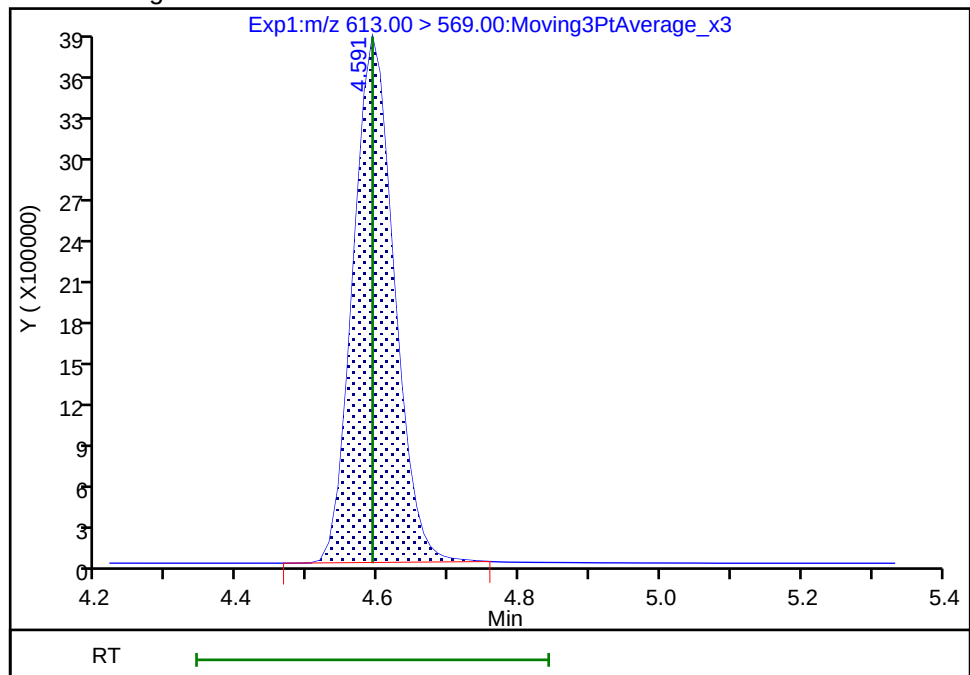
RT: 4.59
Area: 15795102
Amount: 8.813020
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 15612916
Amount: 8.756399
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

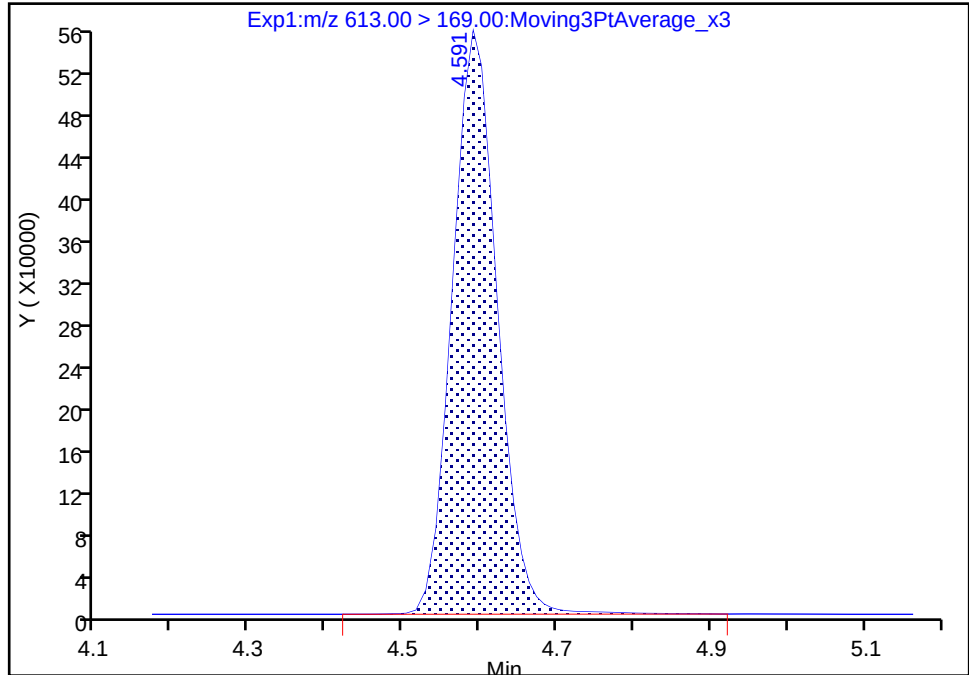
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

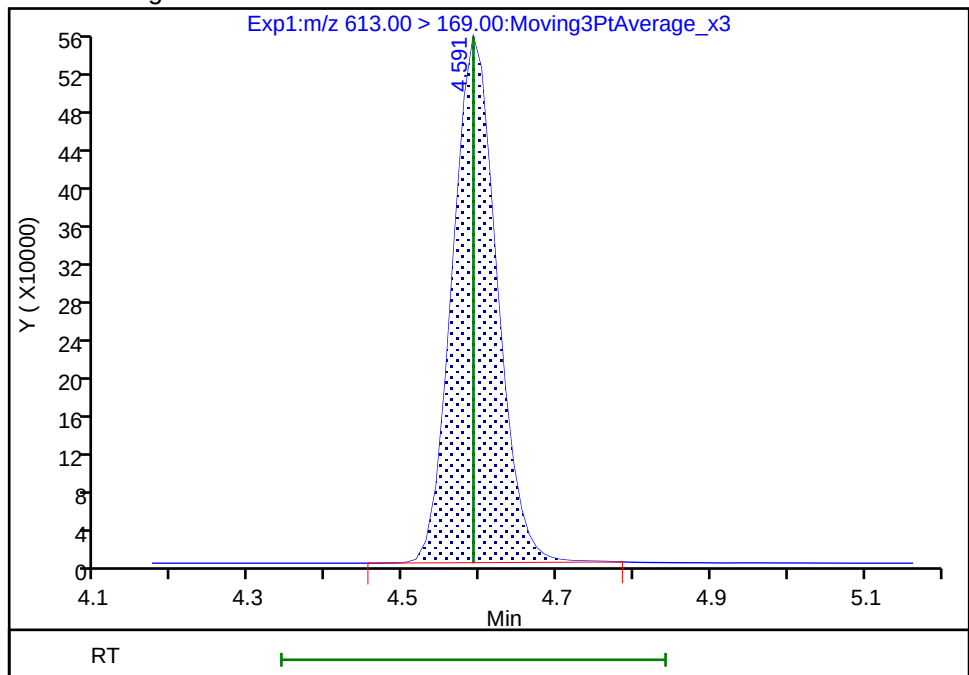
RT: 4.59
Area: 2239668
Amount: 8.813020
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 2225311
Amount: 8.756399
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

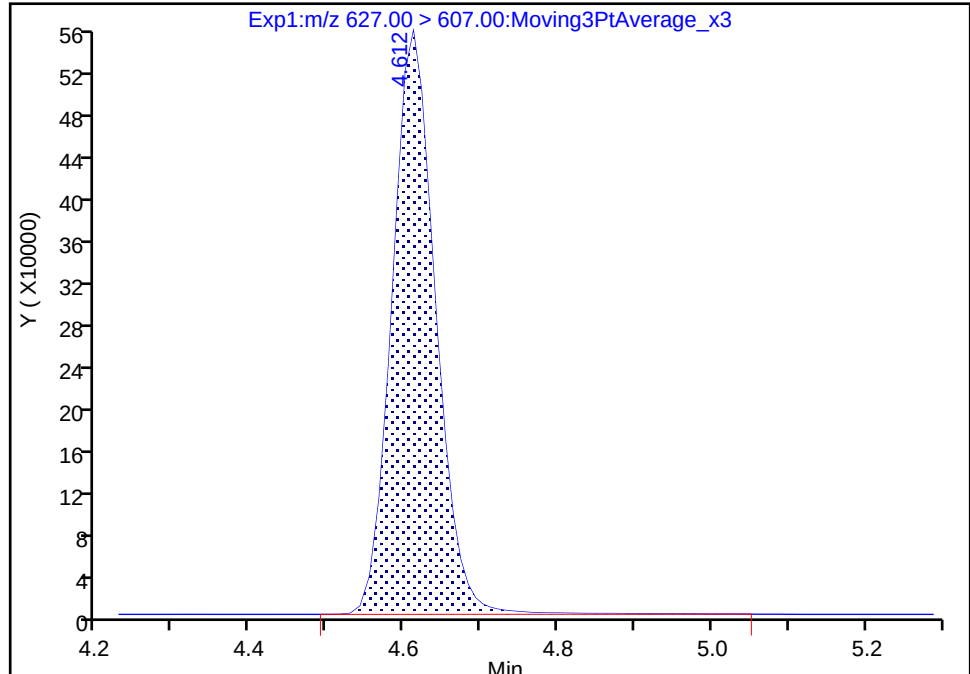
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

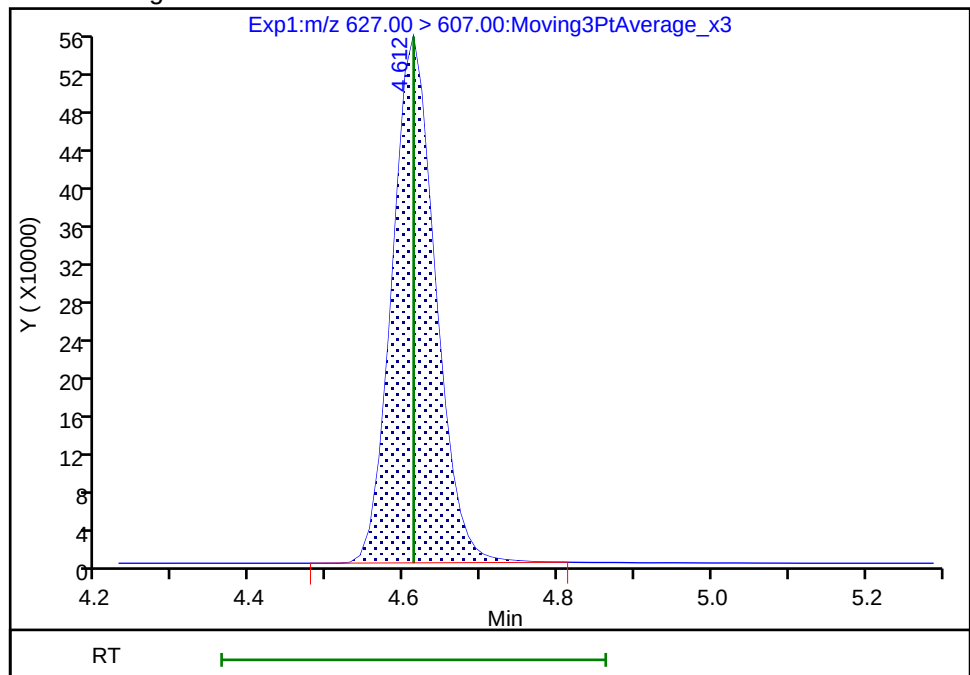
RT: 4.61
Area: 2155044
Amount: 9.567795
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 2140218
Amount: 9.512798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

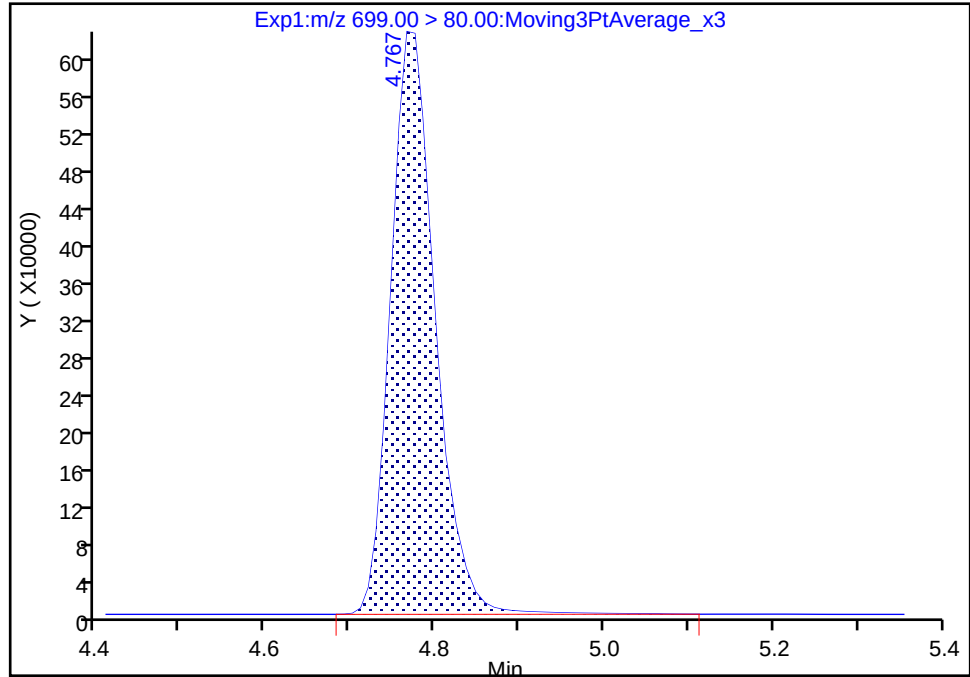
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

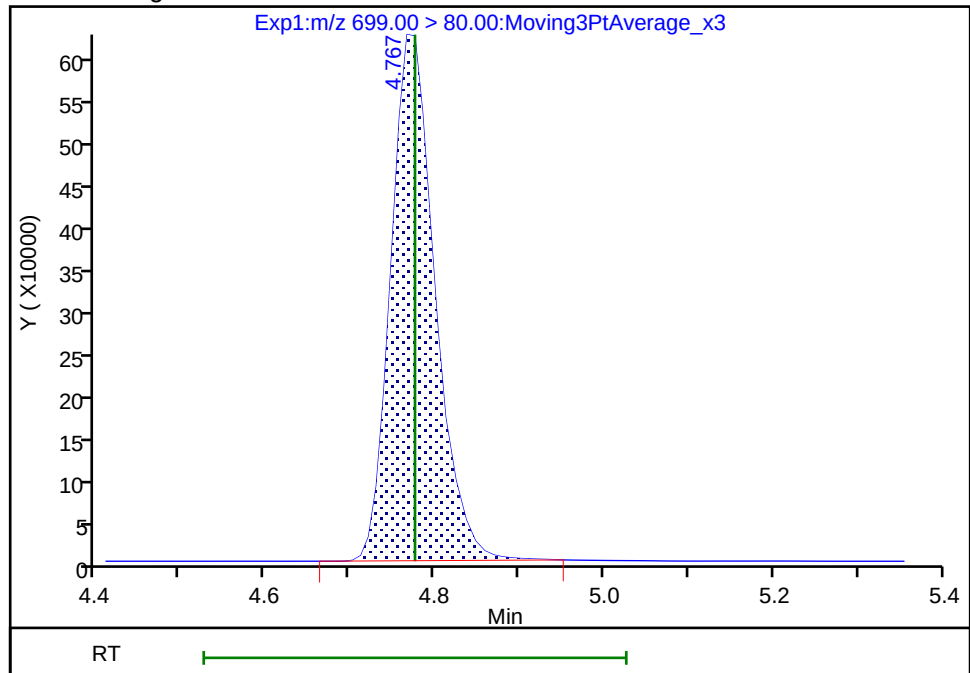
RT: 4.77
Area: 2276652
Amount: 8.916859
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 2258006
Amount: 8.854963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

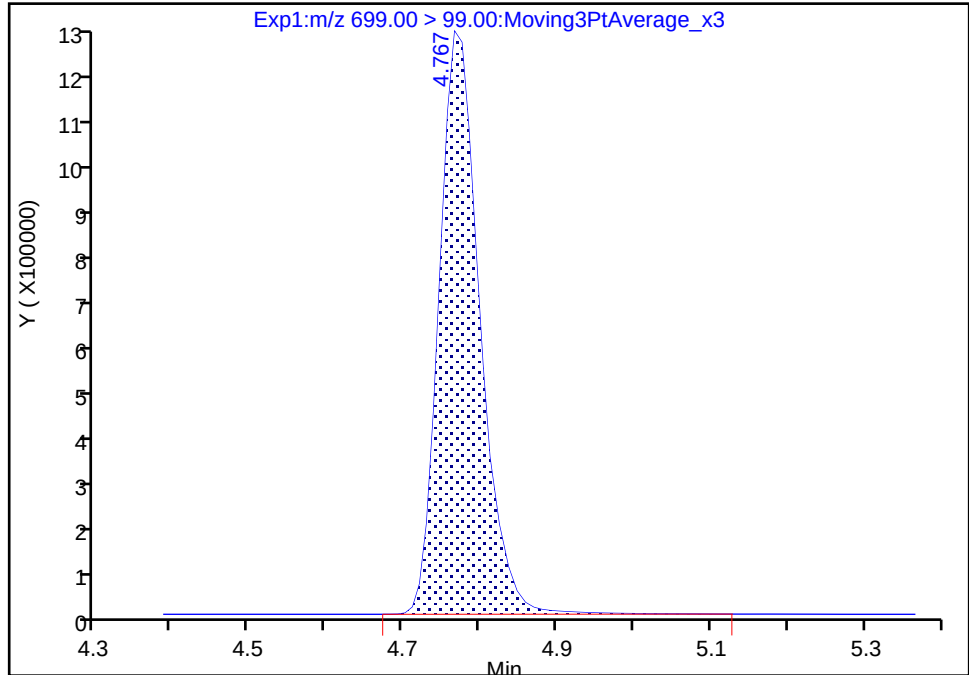
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

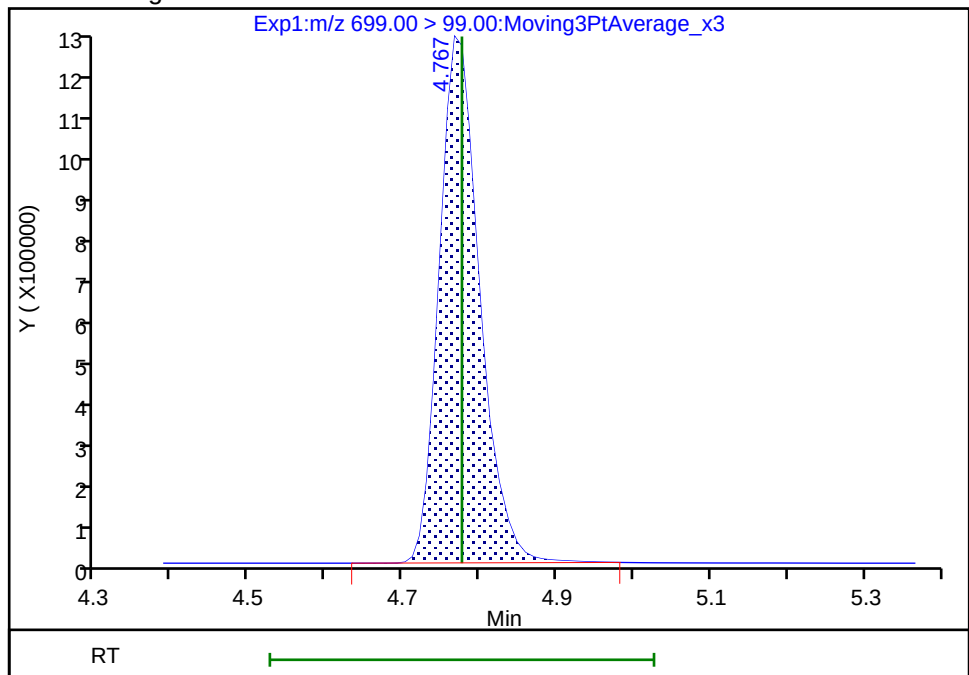
RT: 4.77
Area: 4551960
Amount: 8.916859
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 4532176
Amount: 8.854963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

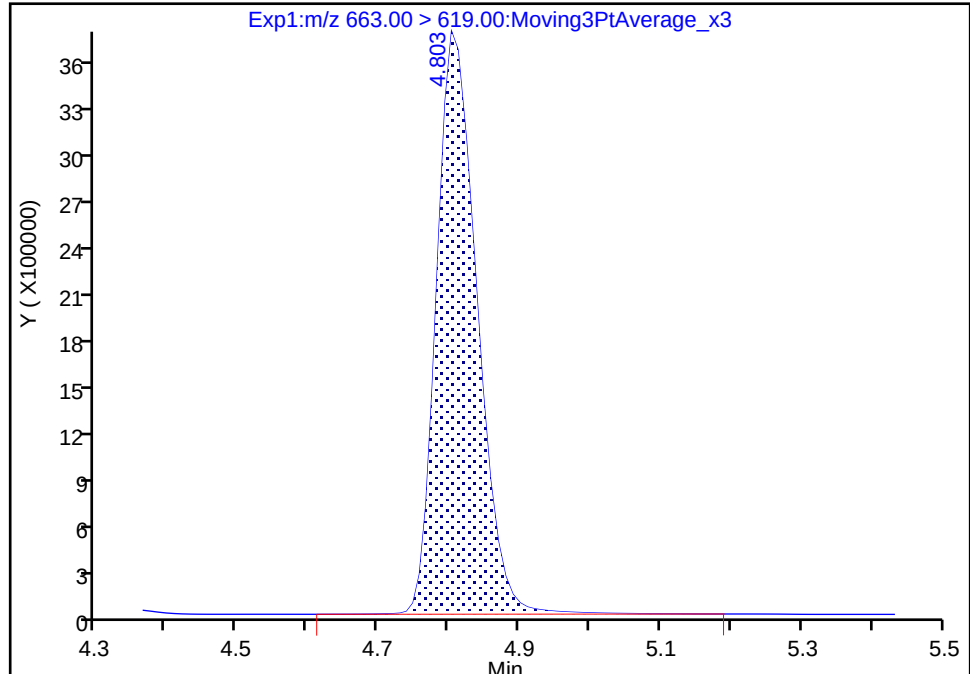
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

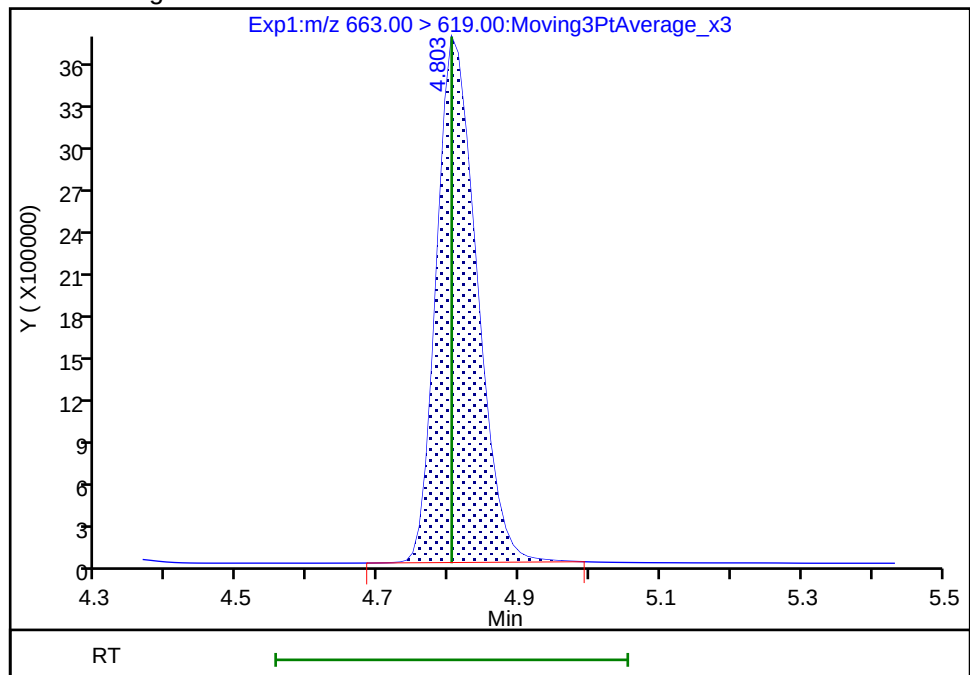
RT: 4.80
Area: 14874509
Amount: 8.712617
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 14753486
Amount: 8.651951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

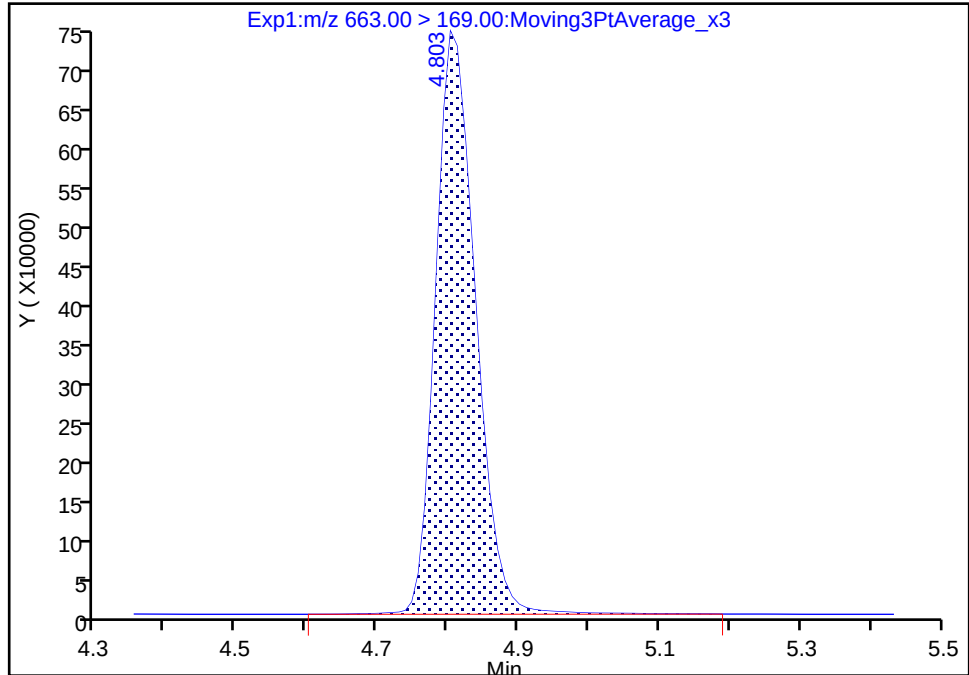
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

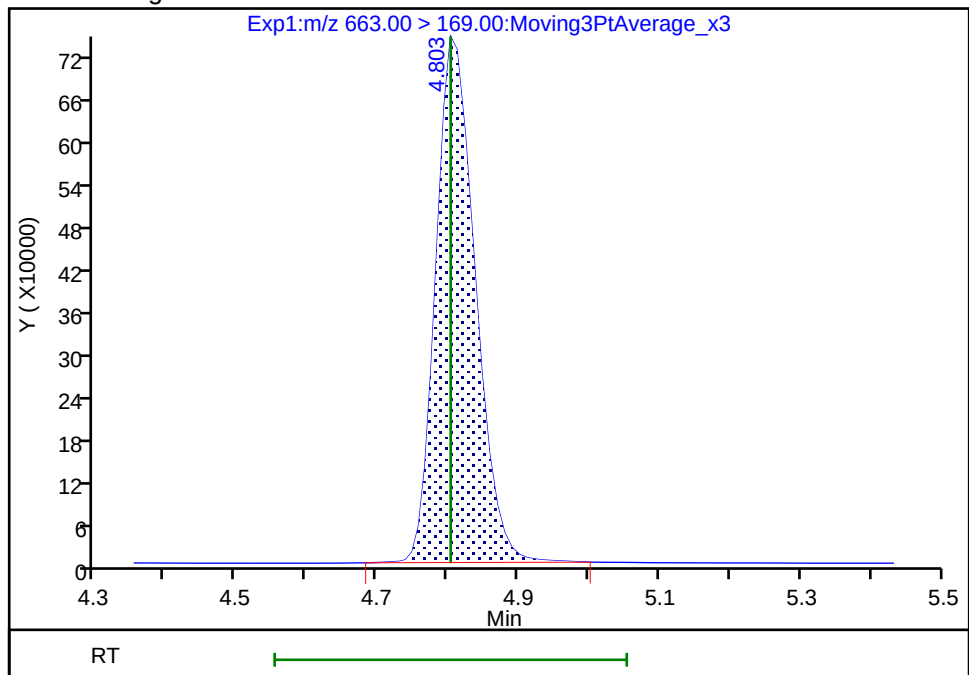
RT: 4.80
Area: 2899959
Amount: 8.712617
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 2874269
Amount: 8.651951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

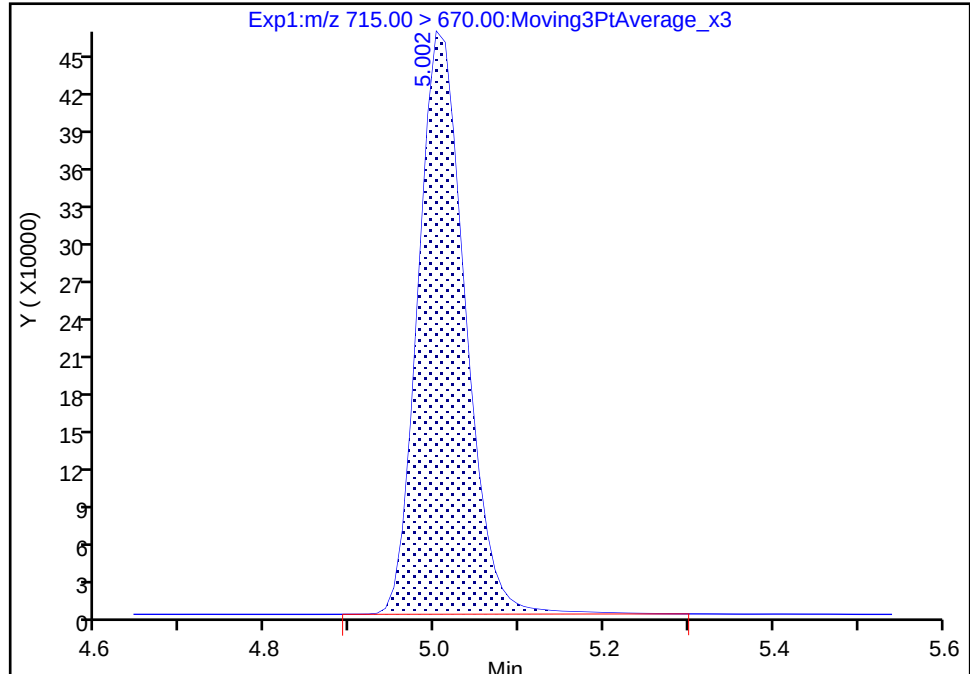
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

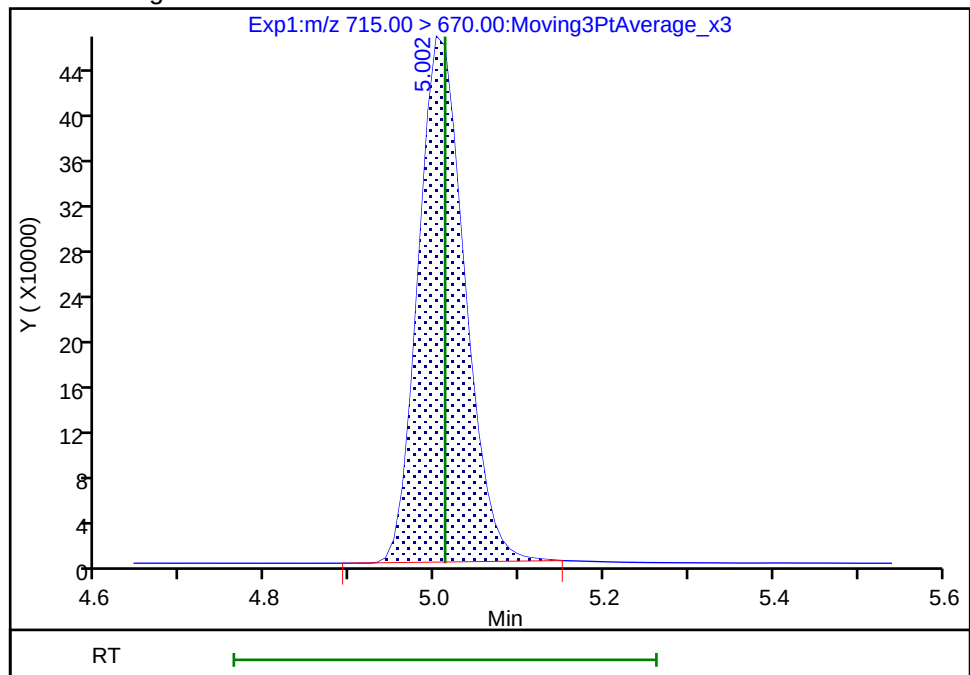
RT: 5.00
Area: 1805771
Amount: 1.302148
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1782548
Amount: 1.288279
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

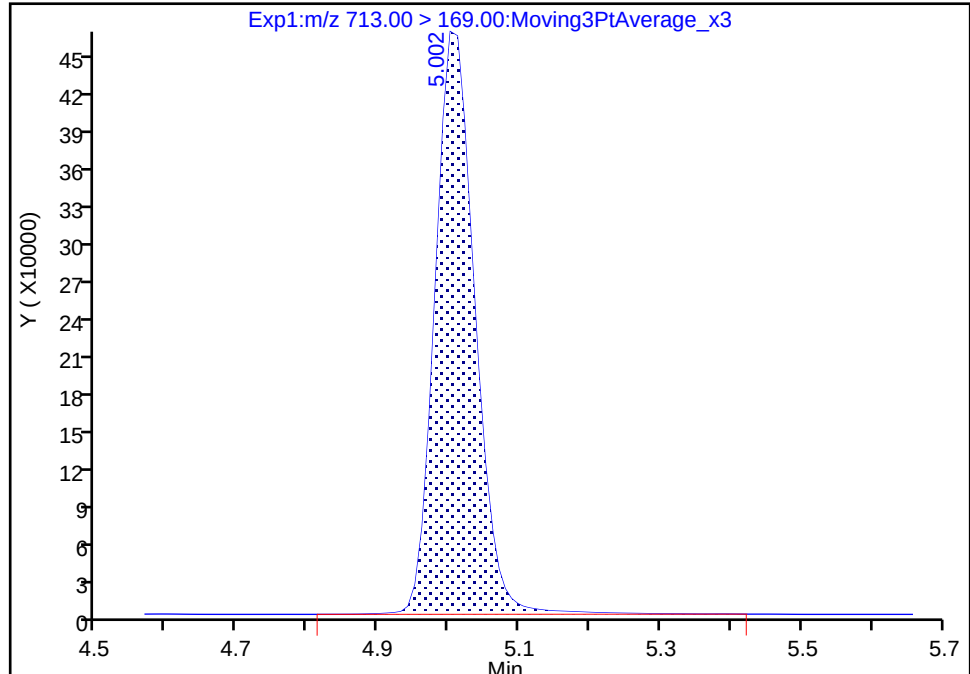
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

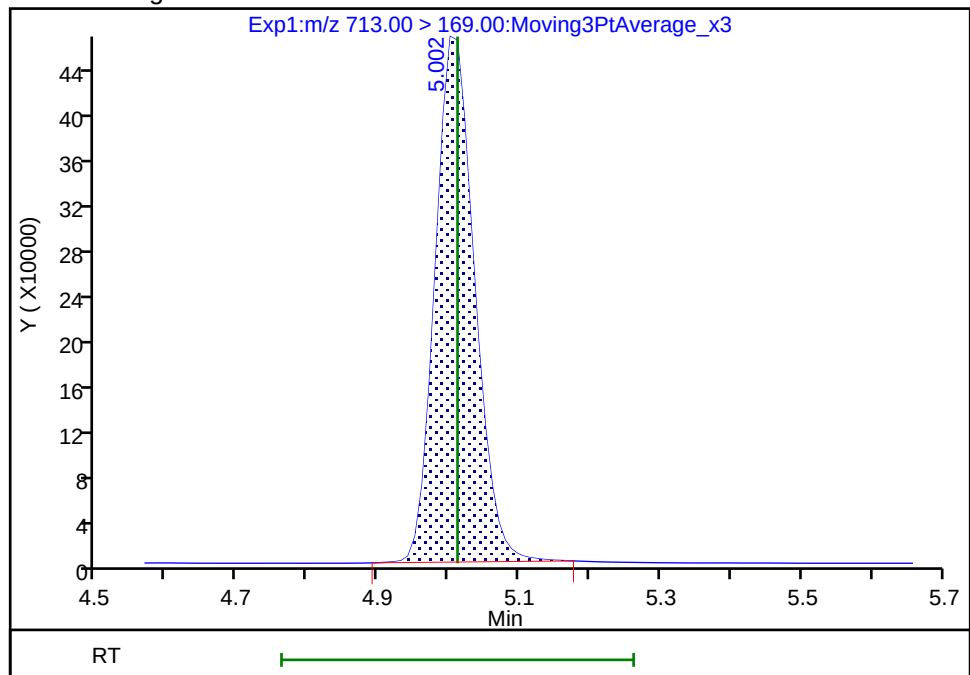
RT: 5.00
Area: 1841113
Amount: 9.306273
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1813608
Amount: 9.289708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

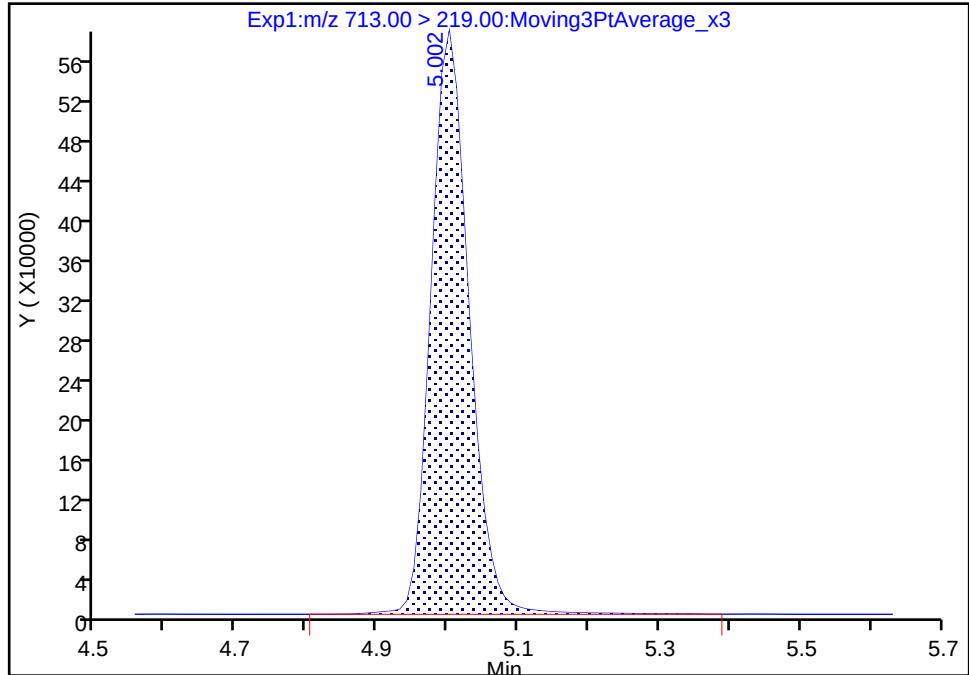
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

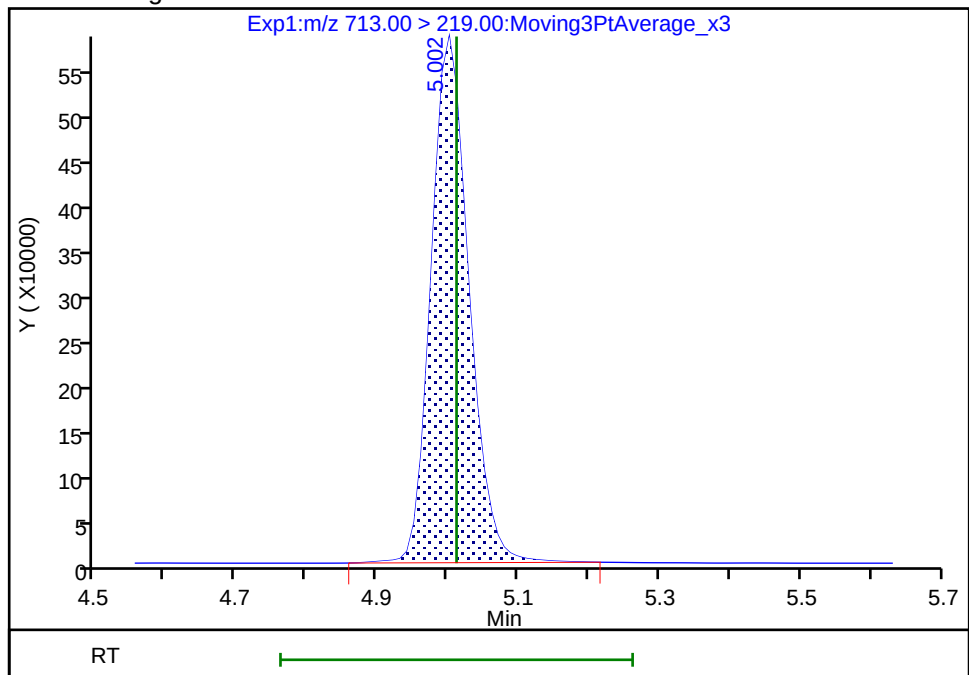
RT: 5.00
Area: 2174723
Amount: 9.306273
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 2156307
Amount: 9.289708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

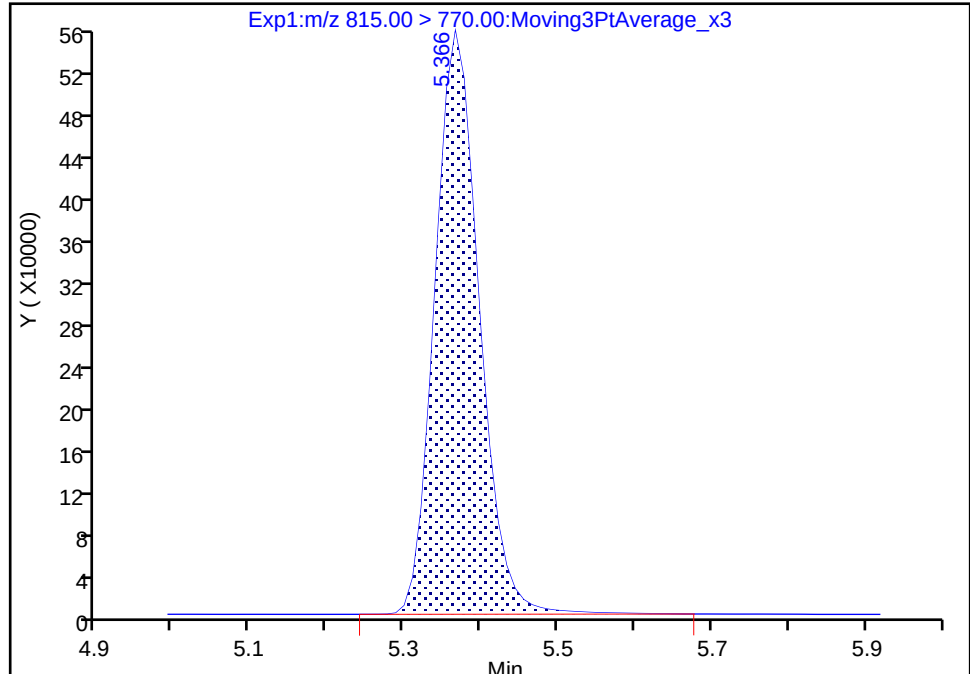
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

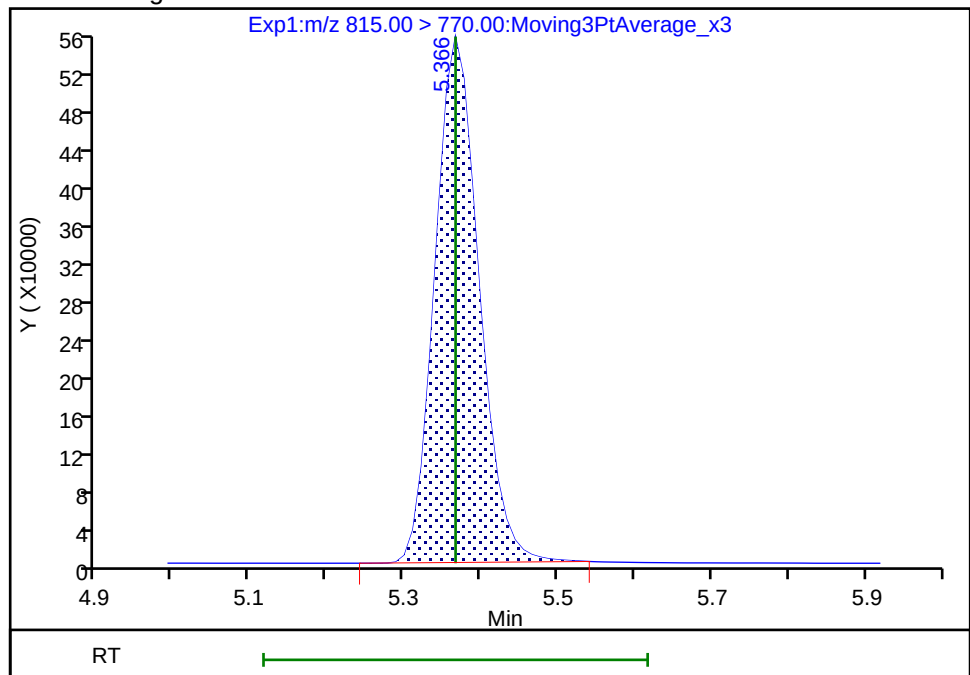
RT: 5.37
Area: 2211108
Amount: 1.290675
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2191999
Amount: 1.281426
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

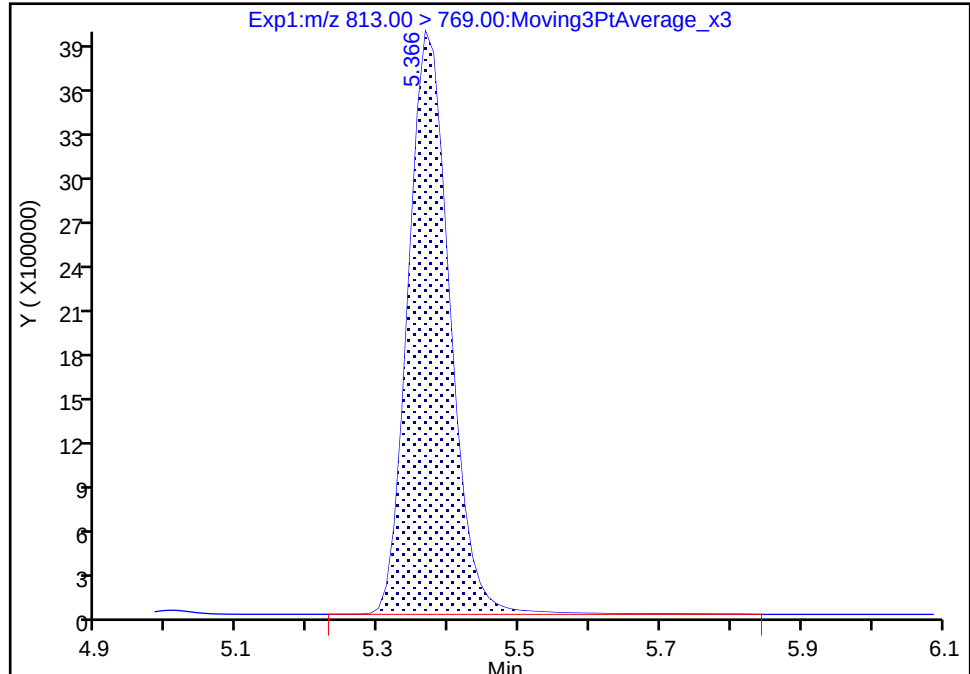
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

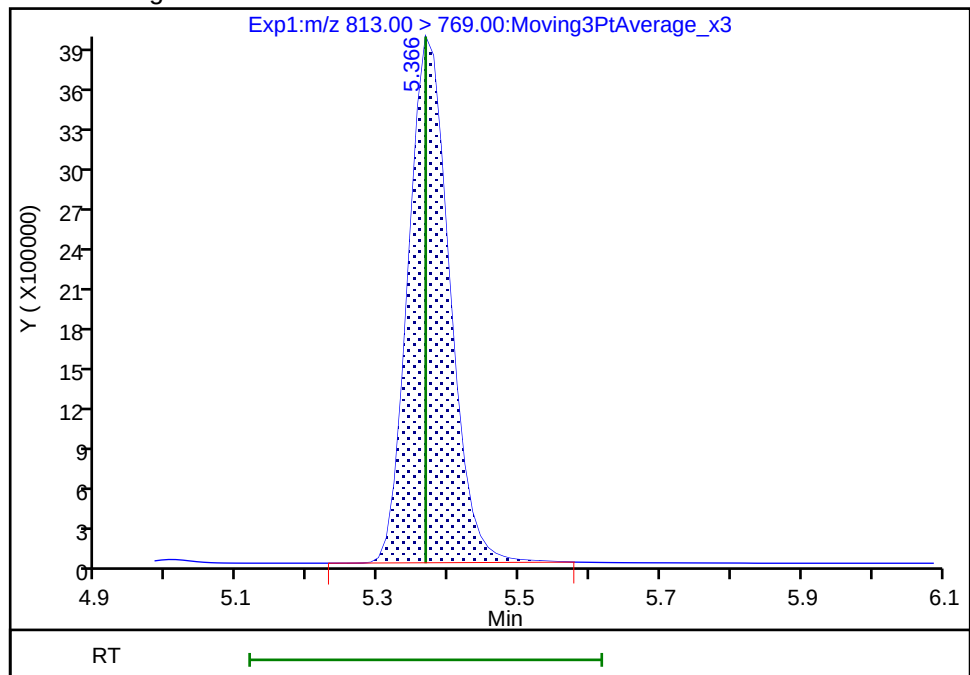
RT: 5.37
Area: 16305862
Amount: 10.008046
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 16164958
Amount: 10.008049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

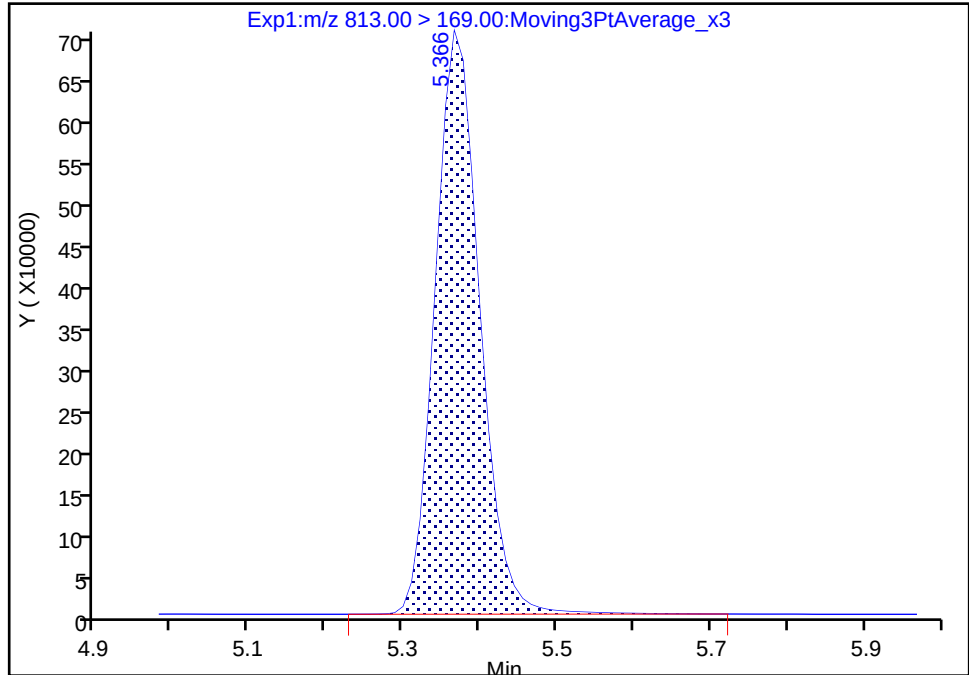
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

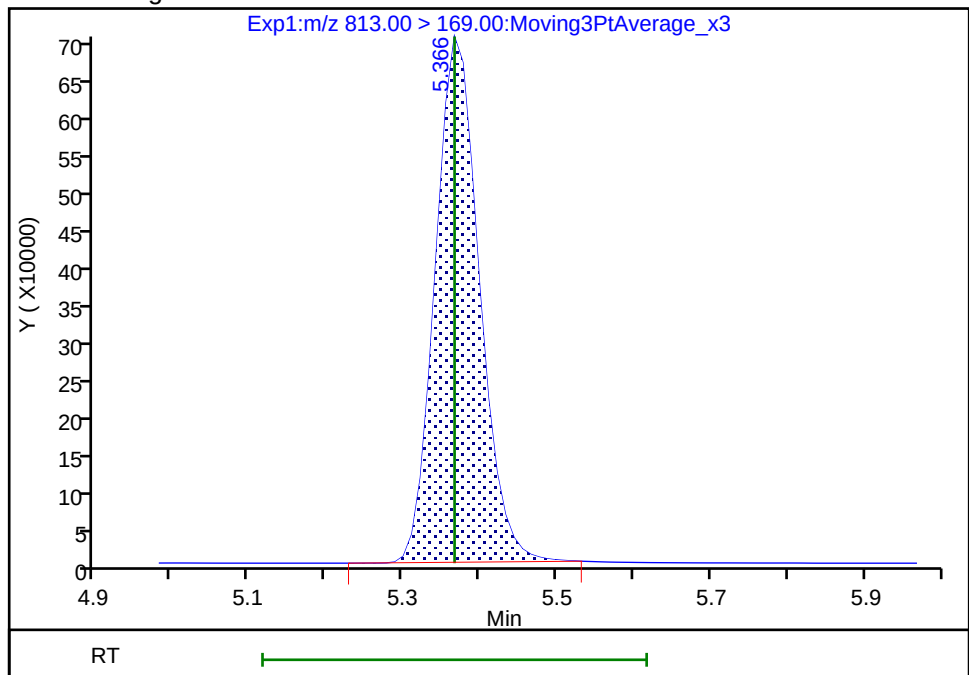
RT: 5.37
Area: 2835121
Amount: 10.008046
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2805404
Amount: 10.008049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

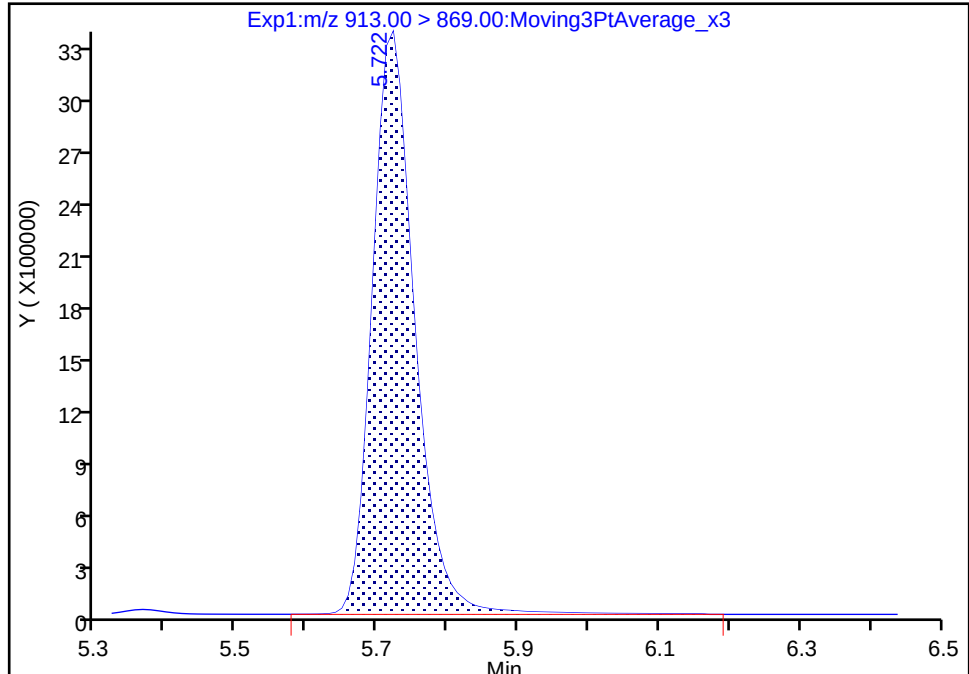
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

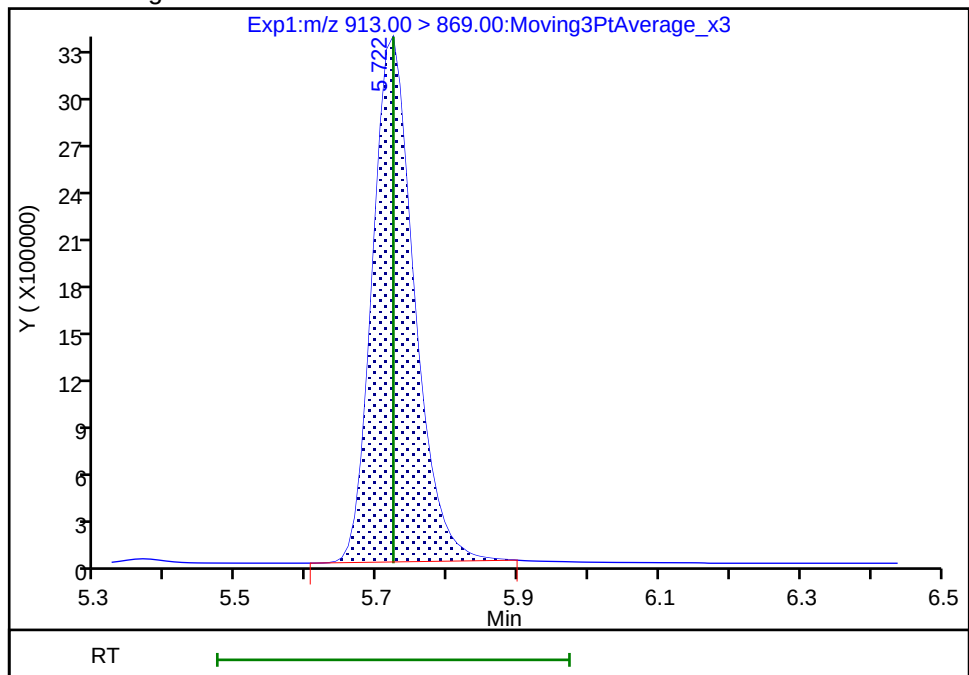
RT: 5.72
Area: 13908772
Amount: 9.598192
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 13617092
Amount: 9.428539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

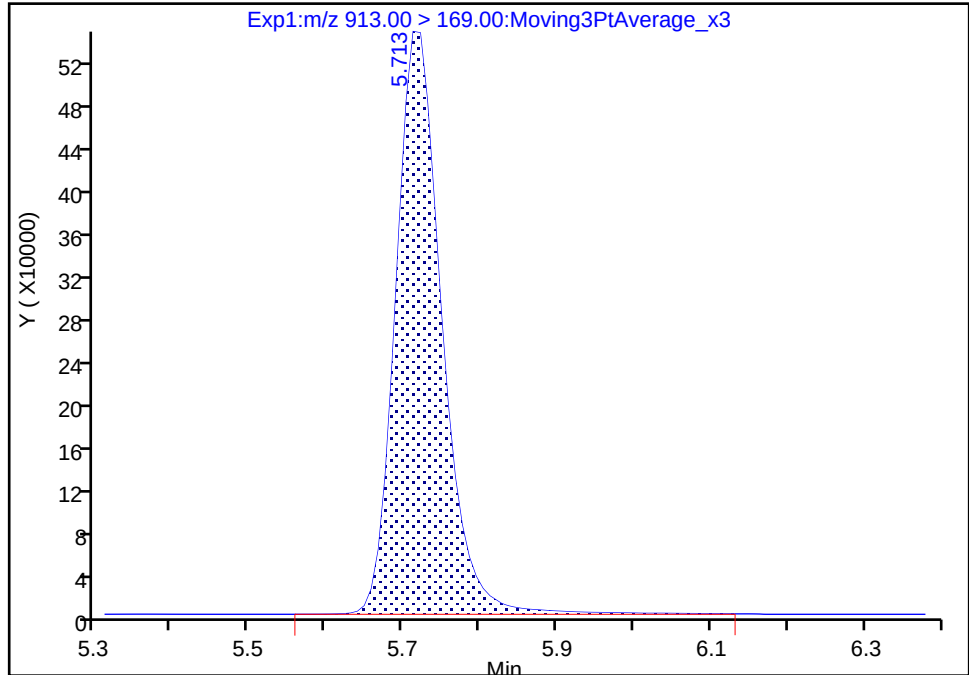
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

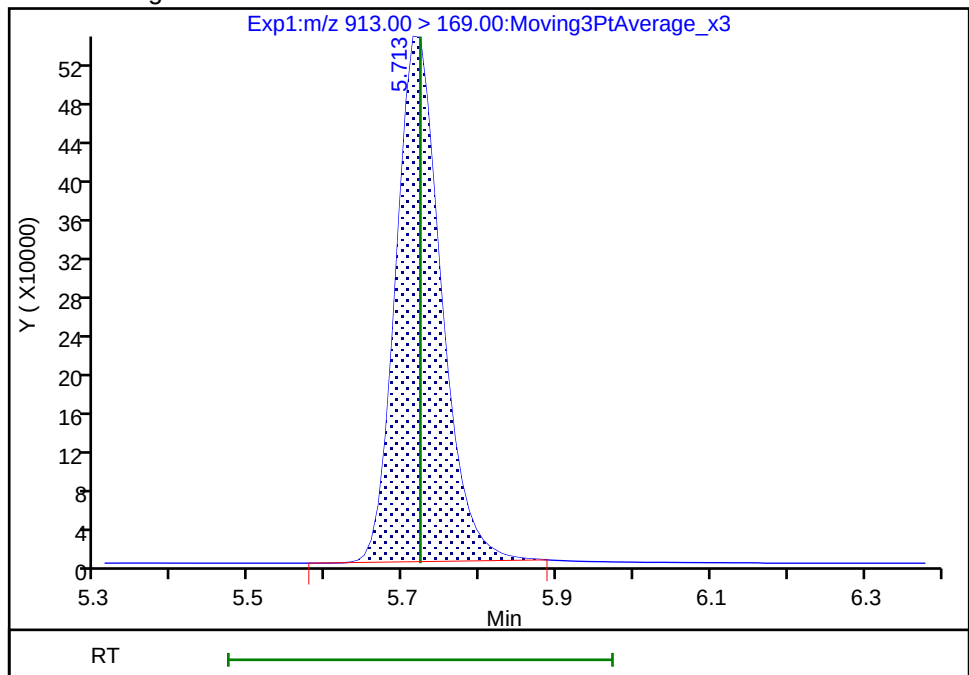
RT: 5.71
Area: 2271279
Amount: 9.598192
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 2220967
Amount: 9.428539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Calibration

/ Perfluorobutanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

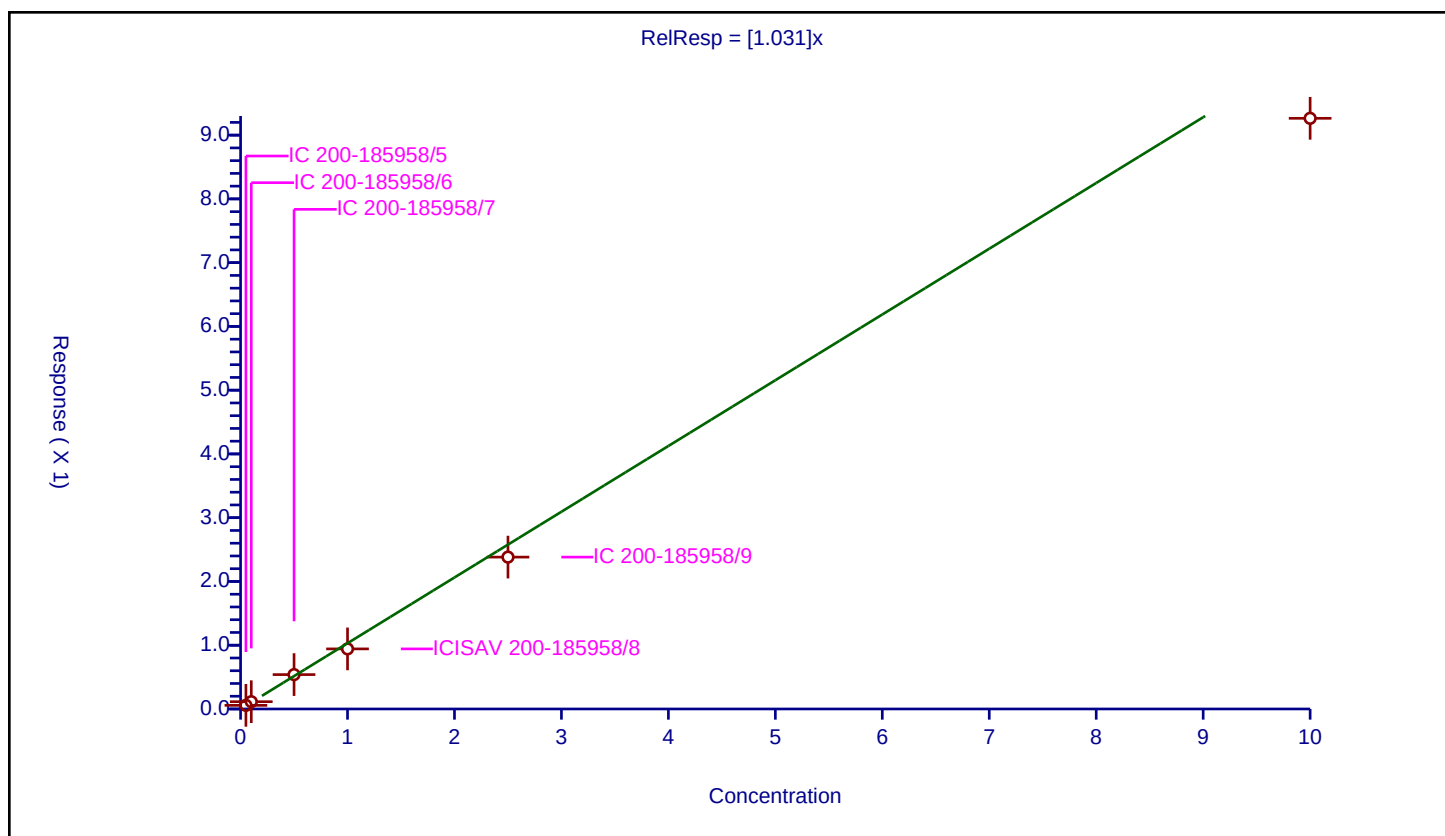
Curve Coefficients

Intercept: 0
Slope: 1.031

Error Coefficients

Standard Error: 8550000
Relative Standard Error: 9.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057224	1.25	2565506.0	1.144482	Y
2	IC 200-185958/6	0.1	0.114249	1.25	2583086.0	1.142485	Y
3	IC 200-185958/7	0.5	0.539241	1.25	2637410.0	1.078482	Y
4	ICISAV 200-185958/8	1.0	0.942534	1.25	2534911.0	0.942534	Y
5	IC 200-185958/9	2.5	2.381988	1.25	2679202.0	0.952795	Y
6	IC 200-185958/10	10.0	9.26398	1.25	2467565.0	0.926398	Y



Calibration

/ Perfluoropentanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

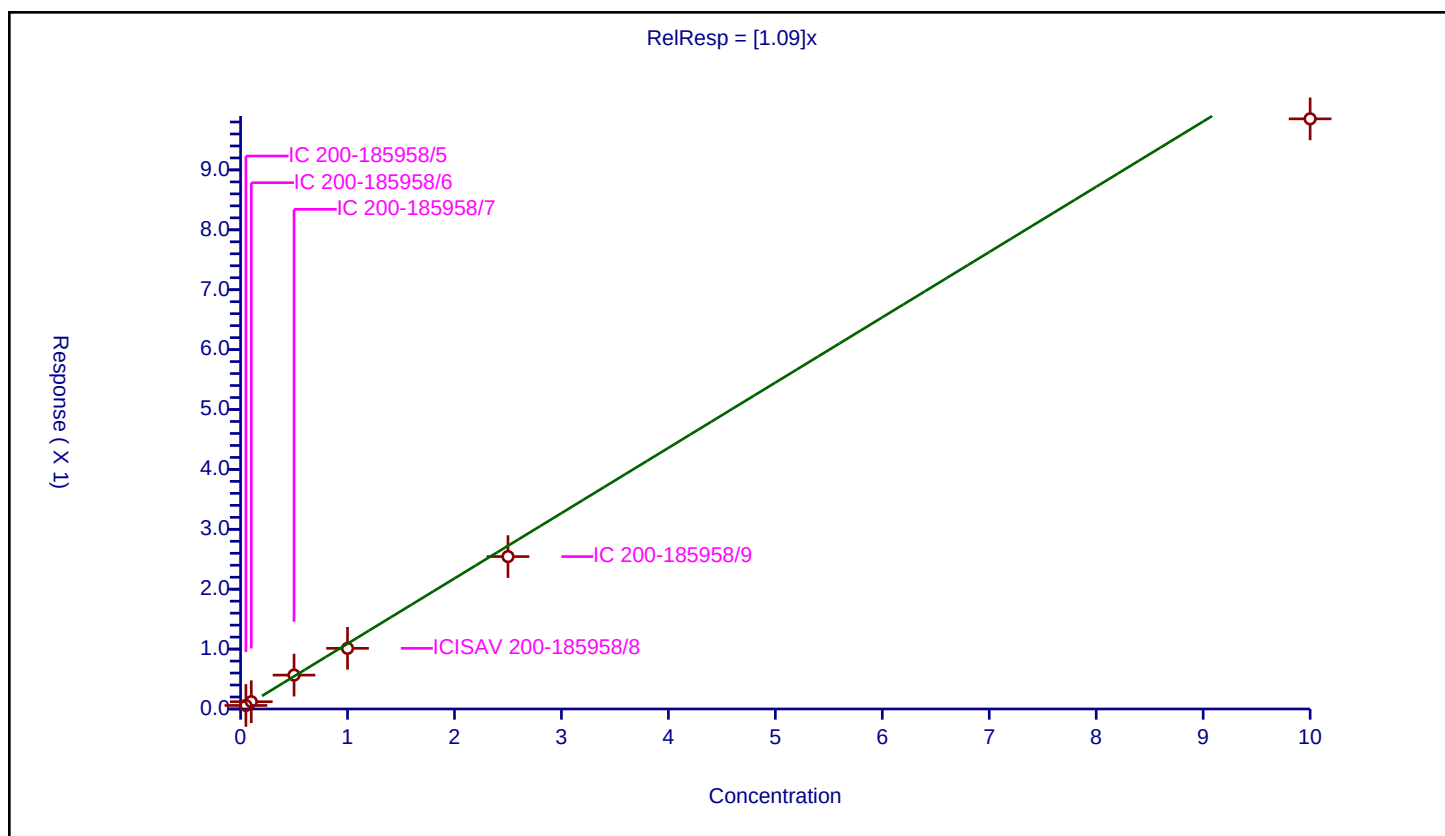
Curve Coefficients

Intercept: 0
 Slope: 1.09

Error Coefficients

Standard Error: 6860000
 Relative Standard Error: 8.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058833	1.25	1939262.0	1.176659	Y
2	IC 200-185958/6	0.1	0.121498	1.25	1926794.0	1.214985	Y
3	IC 200-185958/7	0.5	0.565812	1.25	2052396.0	1.131624	Y
4	ICISAV 200-185958/8	1.0	1.012574	1.25	1977830.0	1.012574	Y
5	IC 200-185958/9	2.5	2.544537	1.25	2026955.0	1.017815	Y
6	IC 200-185958/10	10.0	9.852991	1.25	1859782.0	0.985299	Y



Calibration

/ Perfluorobutanesulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

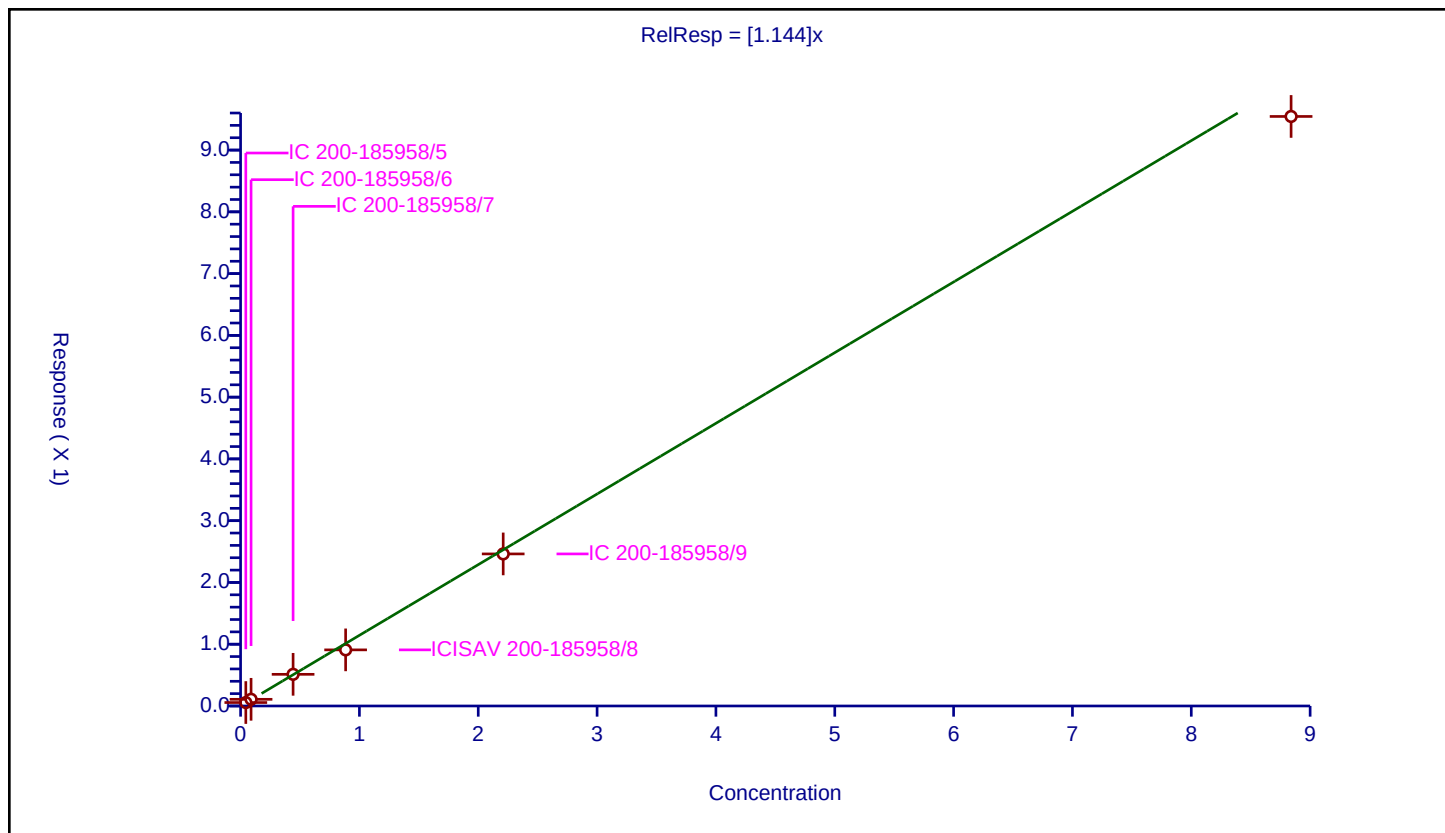
Curve Coefficients

Intercept: 0
Slope: 1.144

Error Coefficients

Standard Error: 7350000
Relative Standard Error: 7.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0442	0.055758	1.1625	1961265.0	1.261495	Y
2	IC 200-185958/6	0.0884	0.107986	1.1625	1974243.0	1.221563	Y
3	IC 200-185958/7	0.442	0.512666	1.1625	2040575.0	1.159878	Y
4	ICISAV 200-185958/8	0.884	0.908628	1.1625	1977208.0	1.02786	Y
5	IC 200-185958/9	2.21	2.46206	1.1625	2026741.0	1.114054	Y
6	IC 200-185958/10	8.84	9.544152	1.1625	1920108.0	1.079655	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

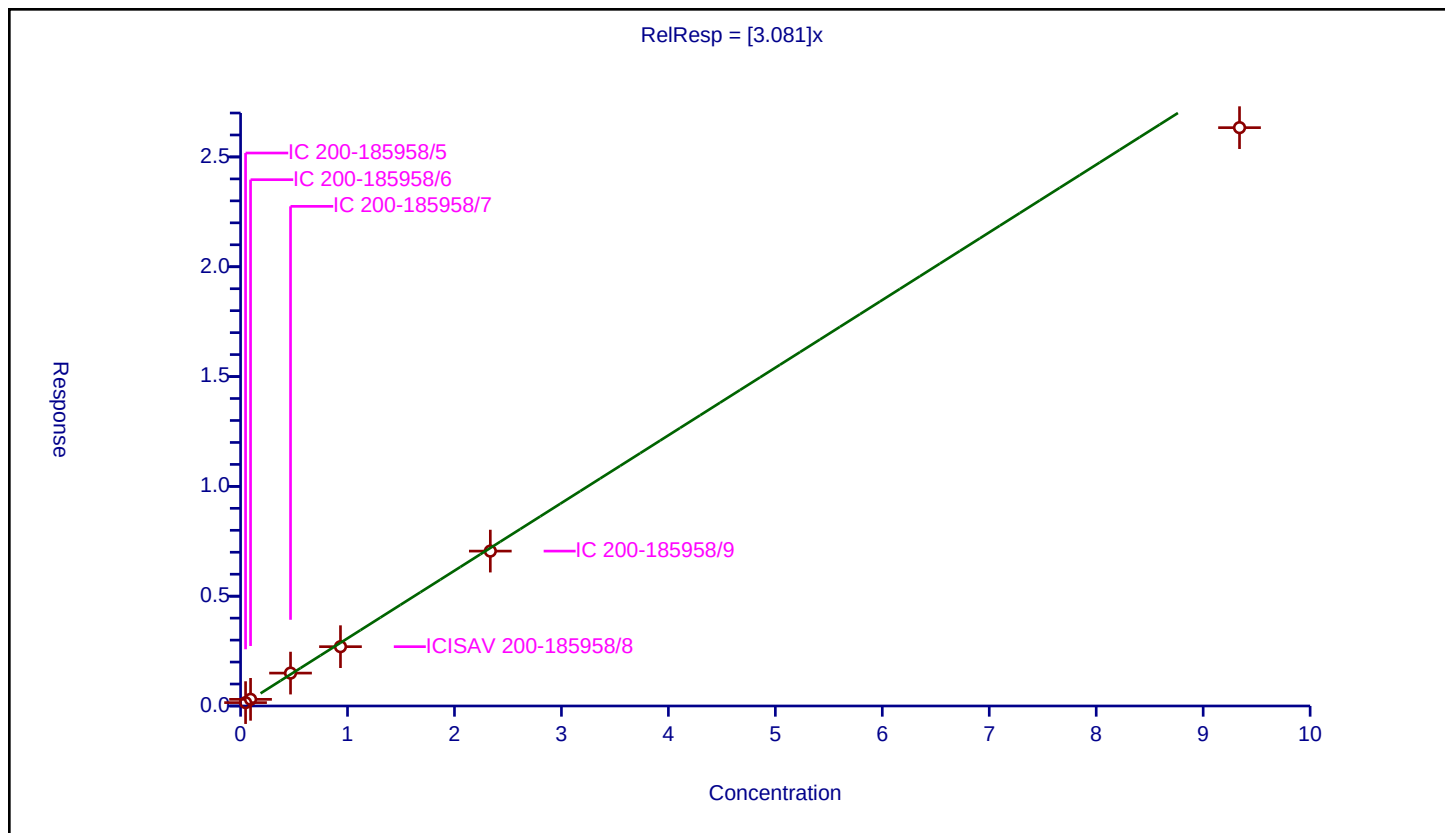
Curve Coefficients

Intercept: 0
 Slope: 3.081

Error Coefficients

Standard Error: 1780000
 Relative Standard Error: 6.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0467	0.15414	1.1675	184320.0	3.300646	Y
2	IC 200-185958/6	0.0934	0.303025	1.1675	176875.0	3.244382	Y
3	IC 200-185958/7	0.467	1.498032	1.1675	178810.0	3.207776	Y
4	ICISAV 200-185958/8	0.934	2.701025	1.1675	169056.0	2.891889	Y
5	IC 200-185958/9	2.335	7.053067	1.1675	178646.0	3.020585	Y
6	IC 200-185958/10	9.34	26.333856	1.1675	168186.0	2.819471	Y



Calibration

/ Perfluorohexanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

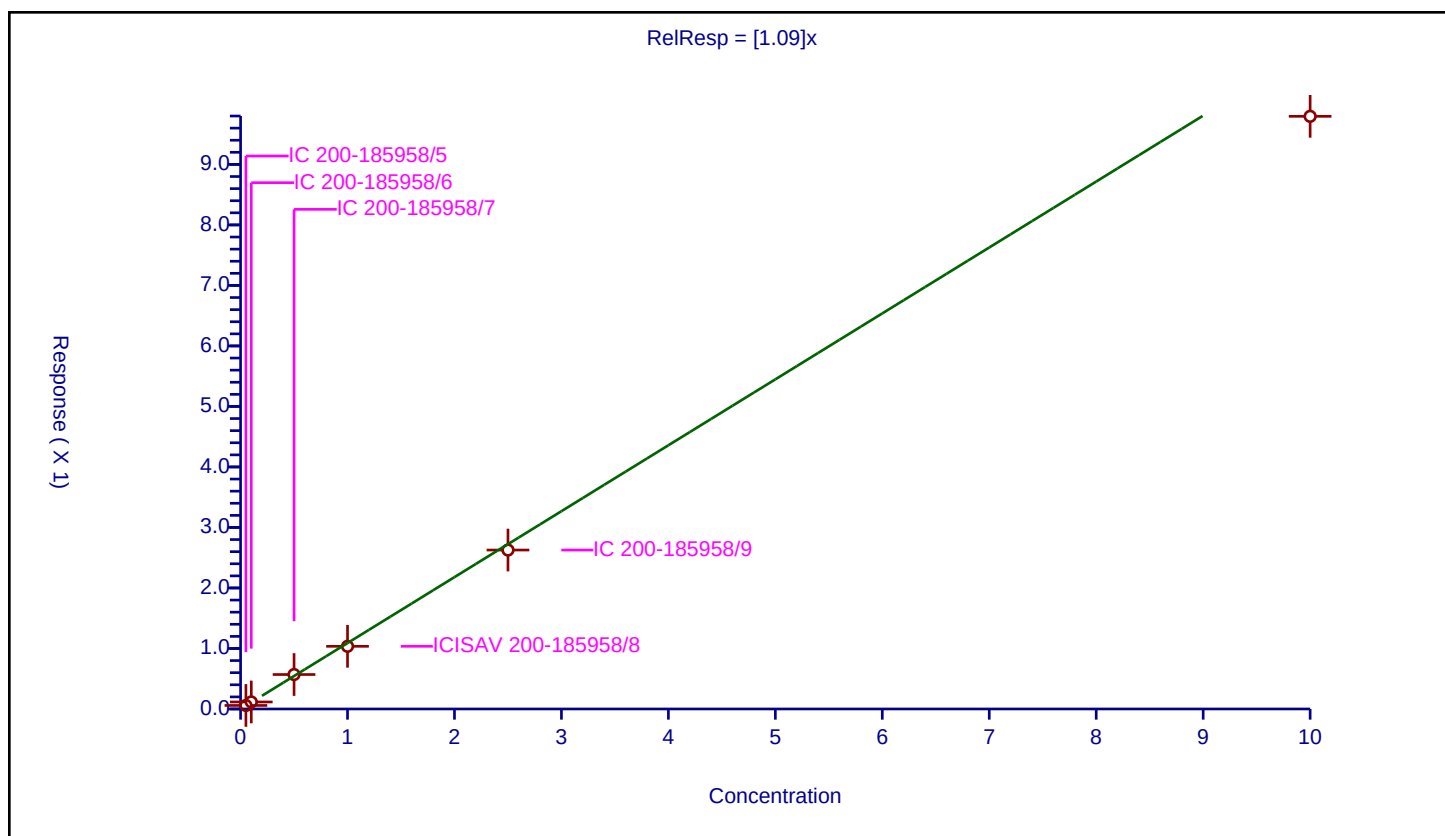
Curve Coefficients

Intercept: 0
 Slope: 1.09

Error Coefficients

Standard Error: 7040000
 Relative Standard Error: 7.2
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058558	1.25	1995025.0	1.171151	Y
2	IC 200-185958/6	0.1	0.116113	1.25	2057289.0	1.161134	Y
3	IC 200-185958/7	0.5	0.569539	1.25	2177304.0	1.139078	Y
4	ICISAV 200-185958/8	1.0	1.036018	1.25	2055340.0	1.036018	Y
5	IC 200-185958/9	2.5	2.627037	1.25	2164012.0	1.050815	Y
6	IC 200-185958/10	10.0	9.79467	1.25	1905245.0	0.979467	Y



Calibration

/ Perfluoropentanesulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

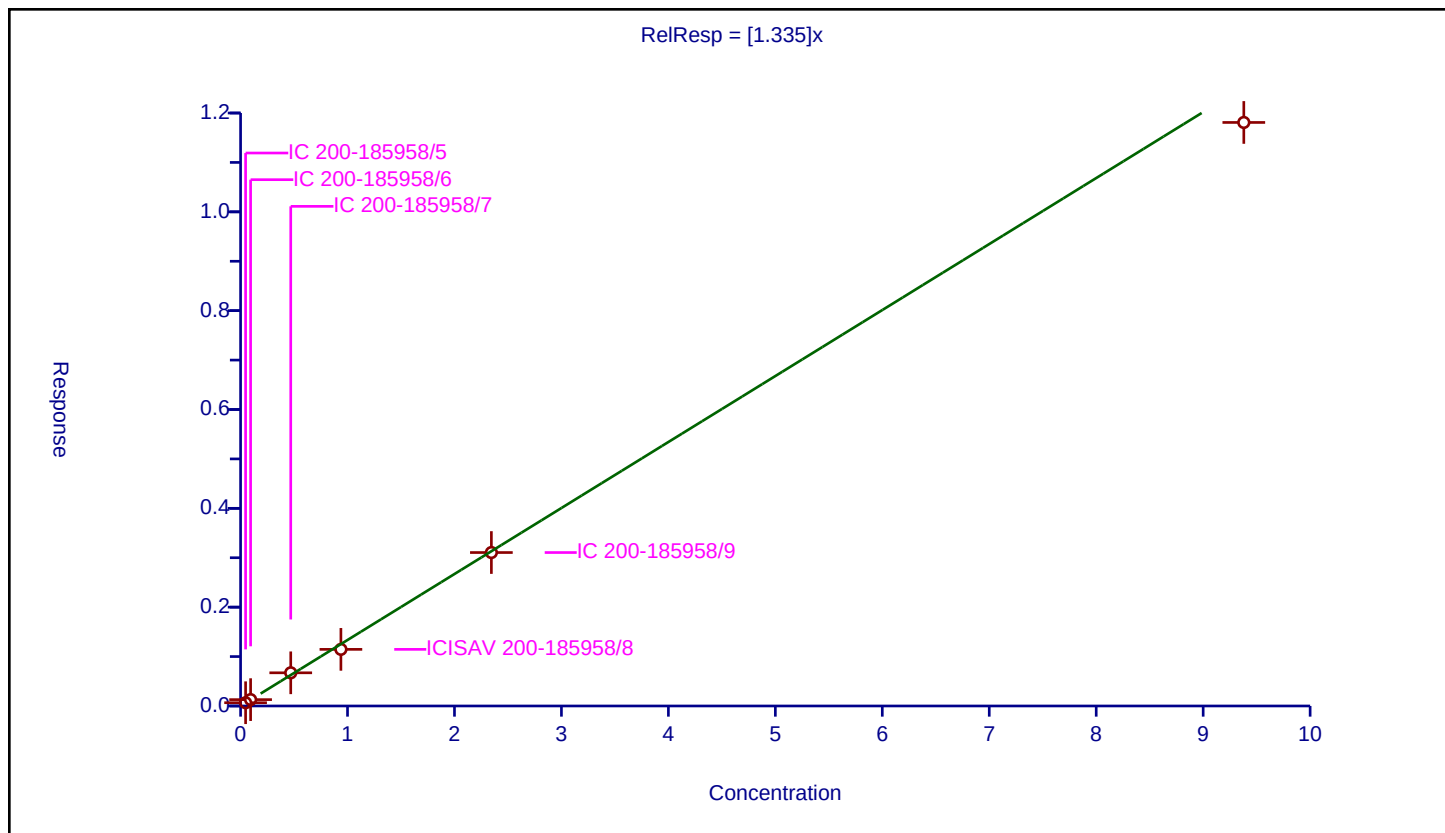
Curve Coefficients

Intercept: 0
Slope: 1.335

Error Coefficients

Standard Error: 6610000
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 200-185958/5	0.0469	0.065942	1.1825	1483321.0	1.406008	Y
2	IC 200-185958/6	0.0938	0.128511	1.1825	1507942.0	1.370052	Y
3	IC 200-185958/7	0.469	0.671495	1.1825	1474490.0	1.431758	Y
4	ICISAV 200-185958/8	0.938	1.145942	1.1825	1449028.0	1.221687	Y
5	IC 200-185958/9	2.345	3.105213	1.1825	1485775.0	1.324185	Y
6	IC 200-185958/10	9.38	11.808932	1.1825	1417084.0	1.258948	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

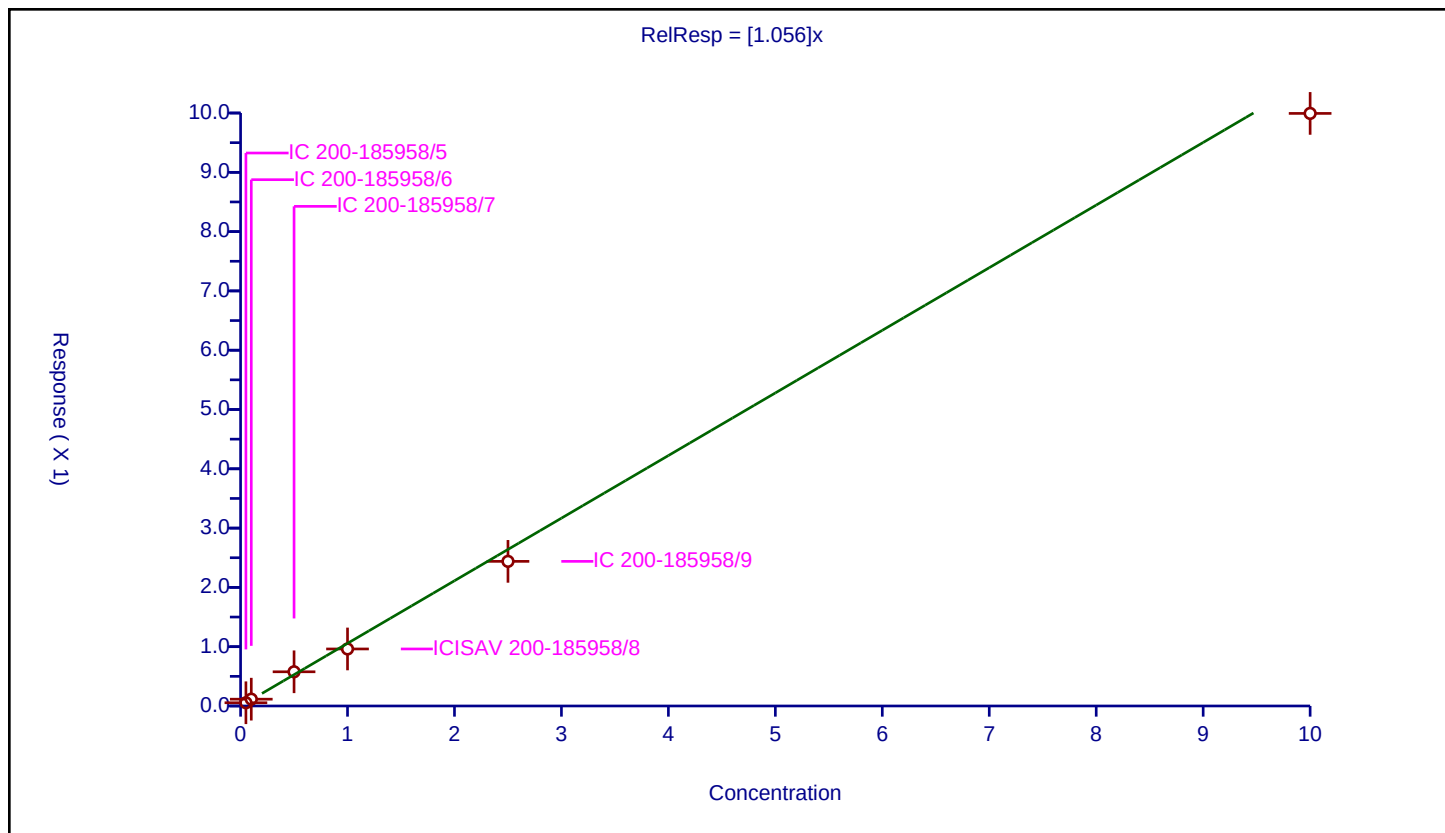
Curve Coefficients

Intercept: 0
 Slope: 1.056

Error Coefficients

Standard Error: 1300000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.054781	1.25	337960.0	1.095618	Y
2	IC 200-185958/6	0.1	0.114926	1.25	352715.0	1.149264	Y
3	IC 200-185958/7	0.5	0.576866	1.25	378942.0	1.153732	Y
4	ICISAV 200-185958/8	1.0	0.961905	1.25	372889.0	0.961905	Y
5	IC 200-185958/9	2.5	2.439146	1.25	387831.0	0.975658	Y
6	IC 200-185958/10	10.0	9.993461	1.25	349067.0	0.999346	Y



Calibration

/ Perfluorohexanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

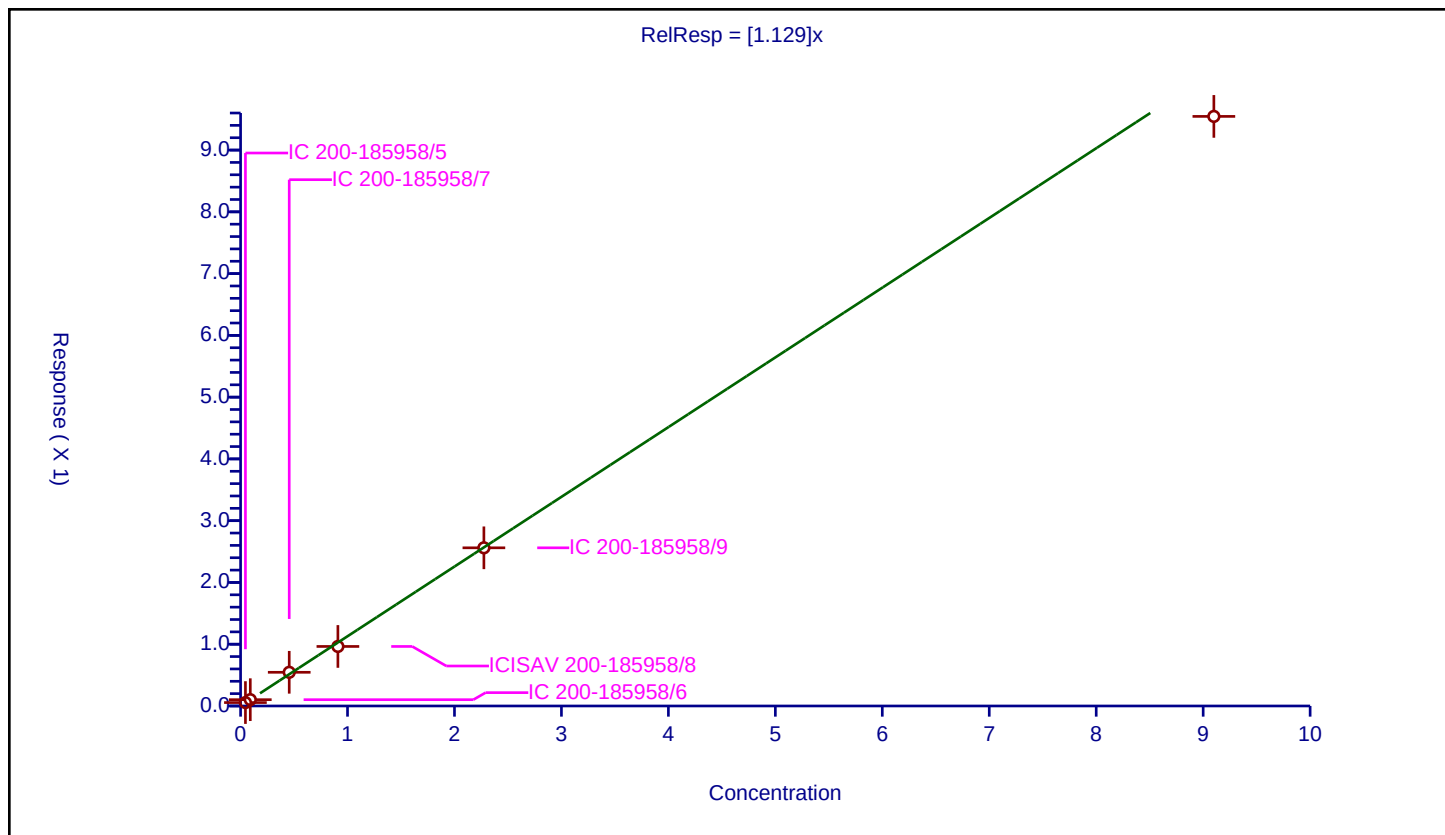
Curve Coefficients

Intercept: 0
 Slope: 1.129

Error Coefficients

Standard Error: 5350000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0455	0.055357	1.1825	1483321.0	1.216629	Y
2	IC 200-185958/6	0.091	0.10215	1.1825	1507942.0	1.122525	Y
3	IC 200-185958/7	0.455	0.545667	1.1825	1474490.0	1.199267	Y
4	ICISAV 200-185958/8	0.91	0.963656	1.1825	1449028.0	1.058963	Y
5	IC 200-185958/9	2.275	2.560878	1.1825	1485775.0	1.125661	Y
6	IC 200-185958/10	9.1	9.544961	1.1825	1417084.0	1.048897	Y



Calibration

/ Perfluoroheptanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

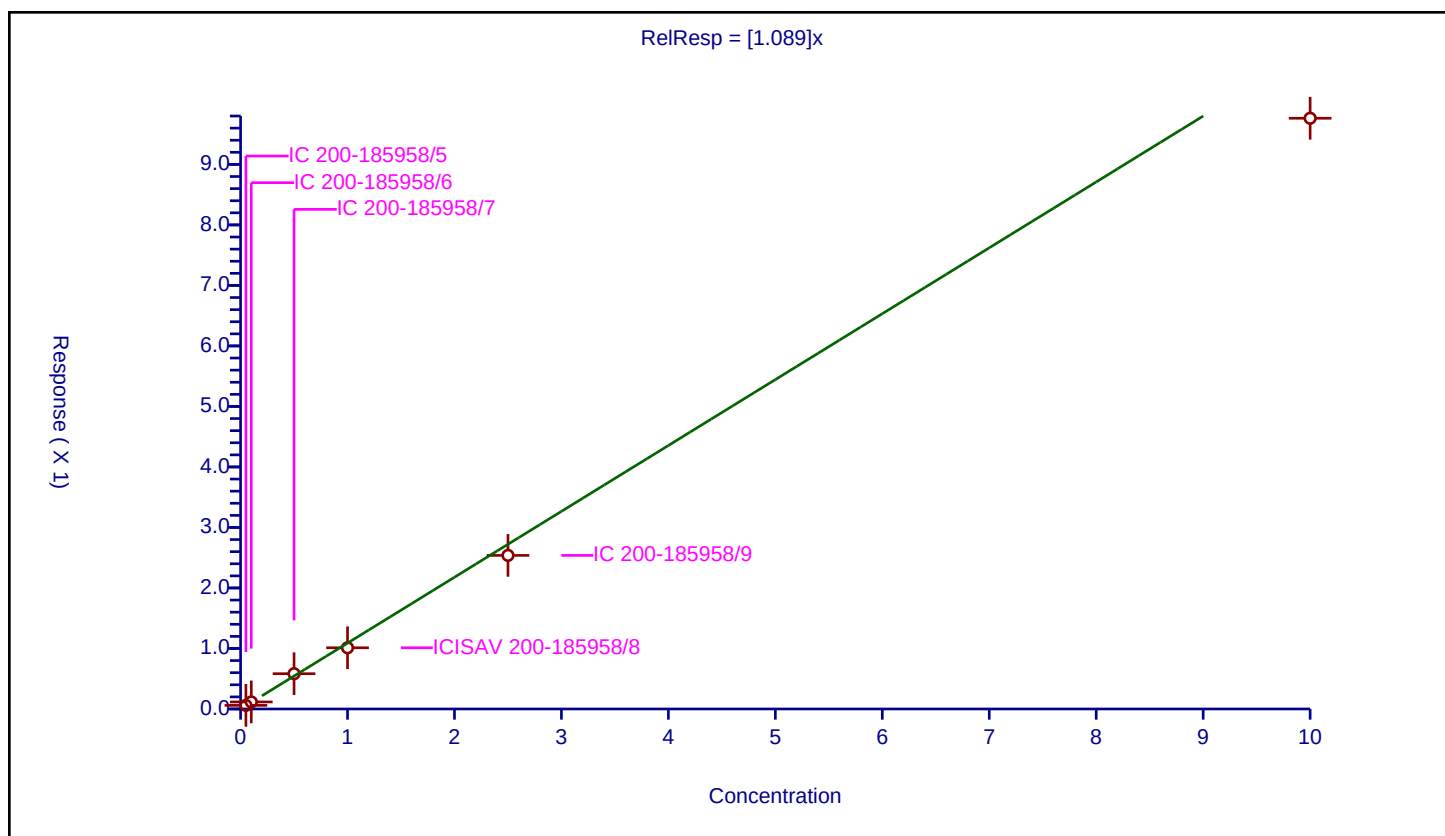
Curve Coefficients

Intercept: 0
 Slope: 1.089

Error Coefficients

Standard Error: 7240000
 Relative Standard Error: 9.0
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.059812	1.25	2099356.0	1.196236	Y
2	IC 200-185958/6	0.1	0.116645	1.25	2087570.0	1.166446	Y
3	IC 200-185958/7	0.5	0.583295	1.25	2150118.0	1.166589	Y
4	ICISAV 200-185958/8	1.0	1.011758	1.25	2123066.0	1.011758	Y
5	IC 200-185958/9	2.5	2.538419	1.25	2271049.0	1.015368	Y
6	IC 200-185958/10	10.0	9.762974	1.25	1969787.0	0.976297	Y



Calibration

/ DONA

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

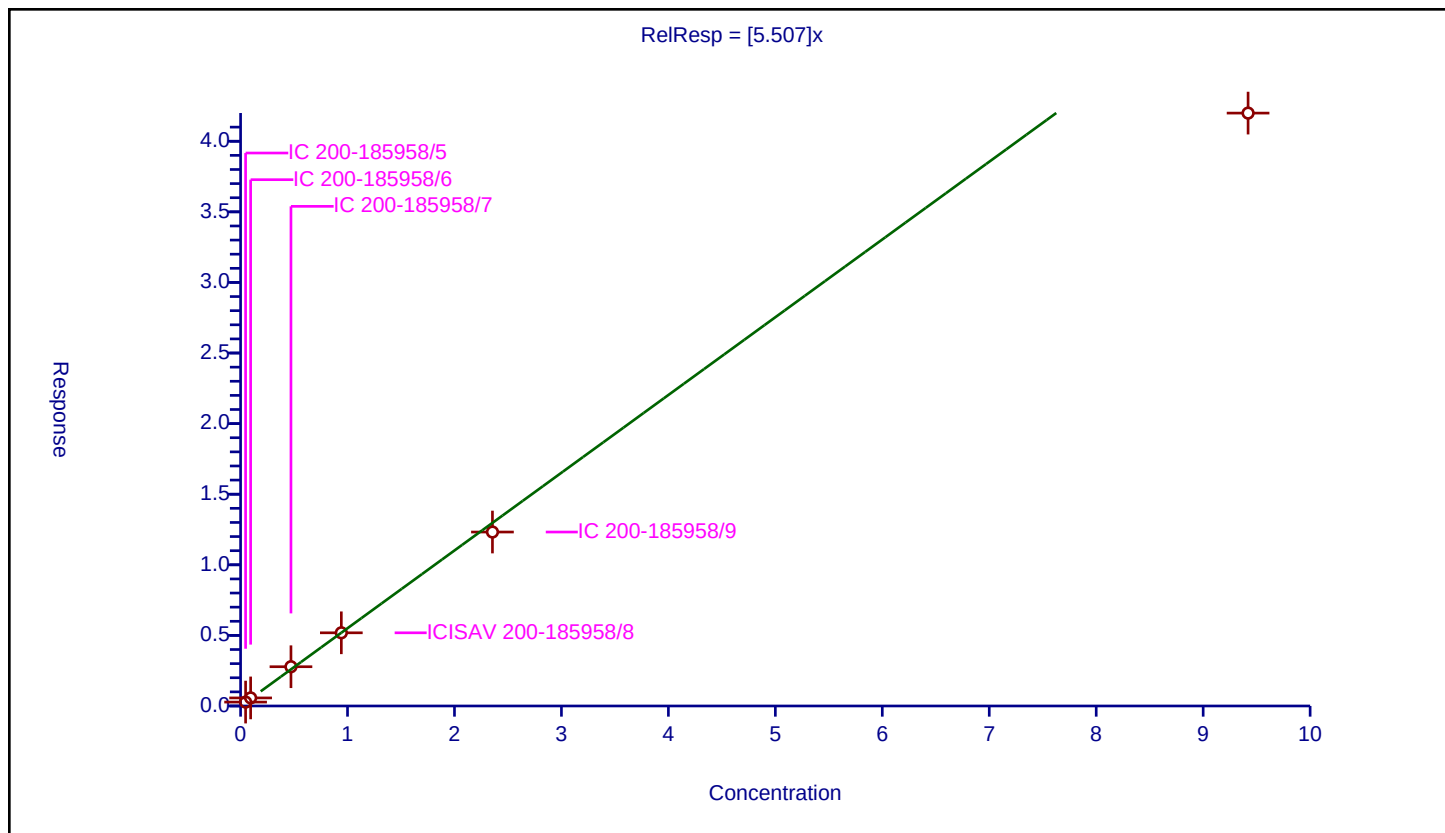
Curve Coefficients

Intercept: 0
 Slope: 5.507

Error Coefficients

Standard Error: 16500000
 Relative Standard Error: 10.9
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0471	0.276629	1.195	989045.0	5.873234	Y
2	IC 200-185958/6	0.0942	0.571824	1.195	1010315.0	6.070323	Y
3	IC 200-185958/7	0.471	2.781198	1.195	1035061.0	5.904879	Y
4	ICISAV 200-185958/8	0.942	5.184478	1.195	967441.0	5.503692	Y
5	IC 200-185958/9	2.355	12.321992	1.195	1049764.0	5.232268	Y
6	IC 200-185958/10	9.42	41.995038	1.195	993714.0	4.458072	Y



Calibration

/ Perfluoroheptanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

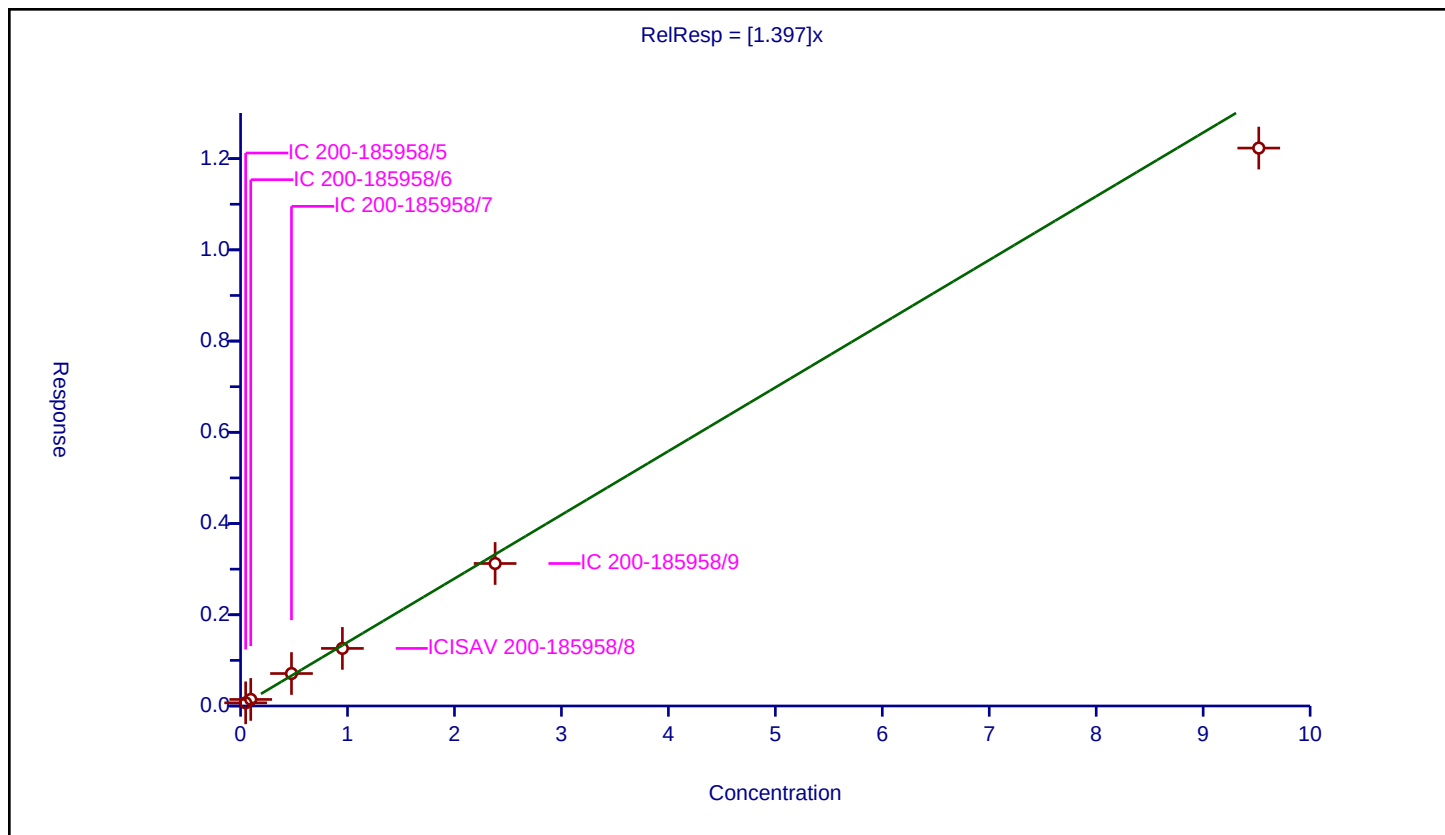
Curve Coefficients

Intercept: 0
 Slope: 1.397

Error Coefficients

Standard Error: 4740000
 Relative Standard Error: 7.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0476	0.069184	1.195	989045.0	1.453437	Y
2	IC 200-185958/6	0.0952	0.143591	1.195	1010315.0	1.508305	Y
3	IC 200-185958/7	0.476	0.711751	1.195	1035061.0	1.495275	Y
4	ICISAV 200-185958/8	0.952	1.262274	1.195	967441.0	1.325918	Y
5	IC 200-185958/9	2.38	3.123937	1.195	1049764.0	1.312579	Y
6	IC 200-185958/10	9.52	12.23132	1.195	993714.0	1.284802	Y



Calibration

/ 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

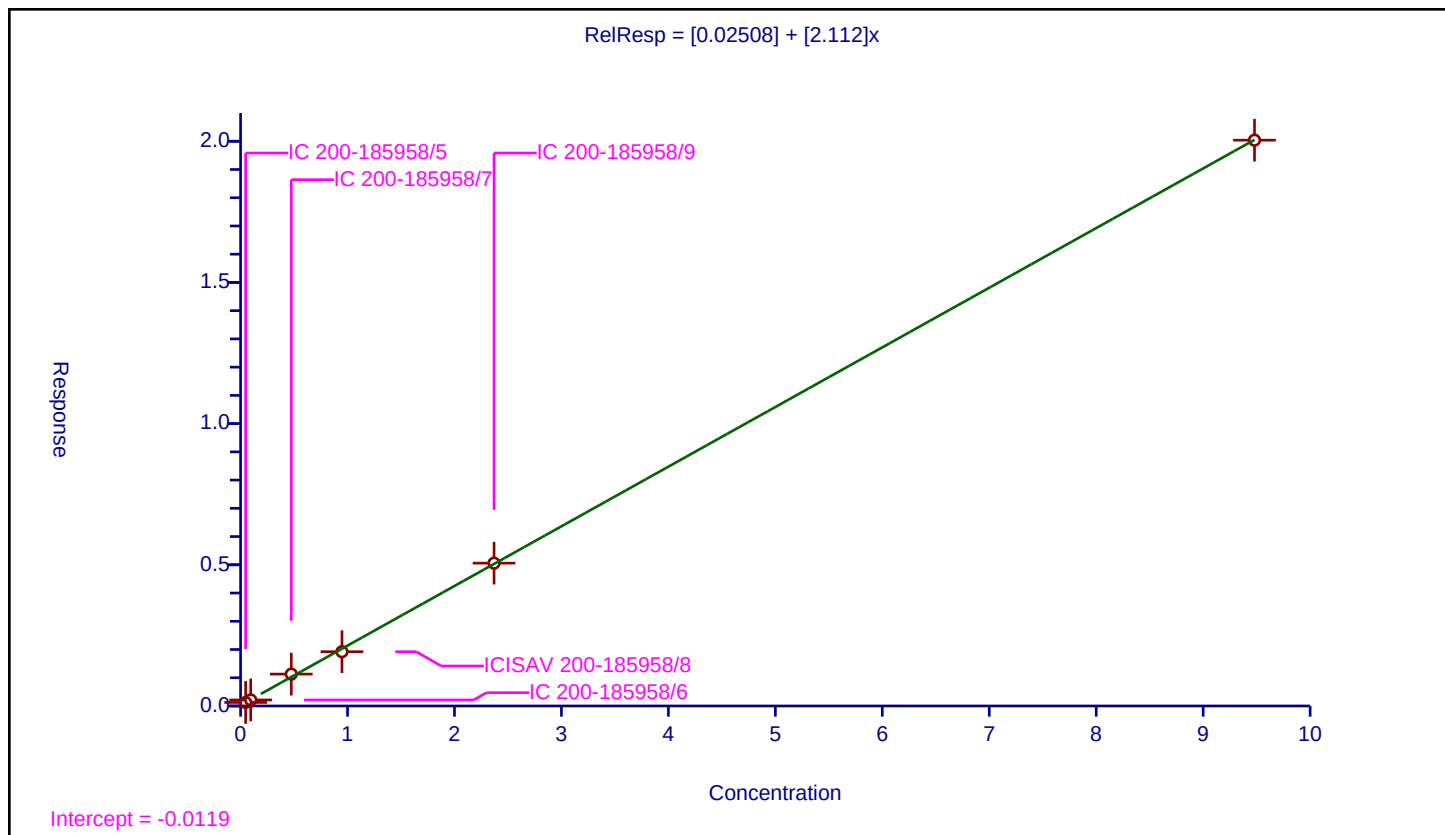
Curve Coefficients

Intercept: 0.02508
Slope: 2.112

Error Coefficients

Standard Error: 1960000
Relative Standard Error: 6.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0474	0.125278	1.1875	255115.0	2.643002	Y
2	IC 200-185958/6	0.0948	0.214255	1.1875	254748.0	2.260075	Y
3	IC 200-185958/7	0.474	1.129262	1.1875	247623.0	2.38241	Y
4	ICISAV 200-185958/8	0.948	1.921884	1.1875	249636.0	2.027304	Y
5	IC 200-185958/9	2.37	5.059011	1.1875	257709.0	2.134604	Y
6	IC 200-185958/10	9.48	20.037836	1.1875	221871.0	2.113696	Y



Calibration

/ Perfluorooctanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

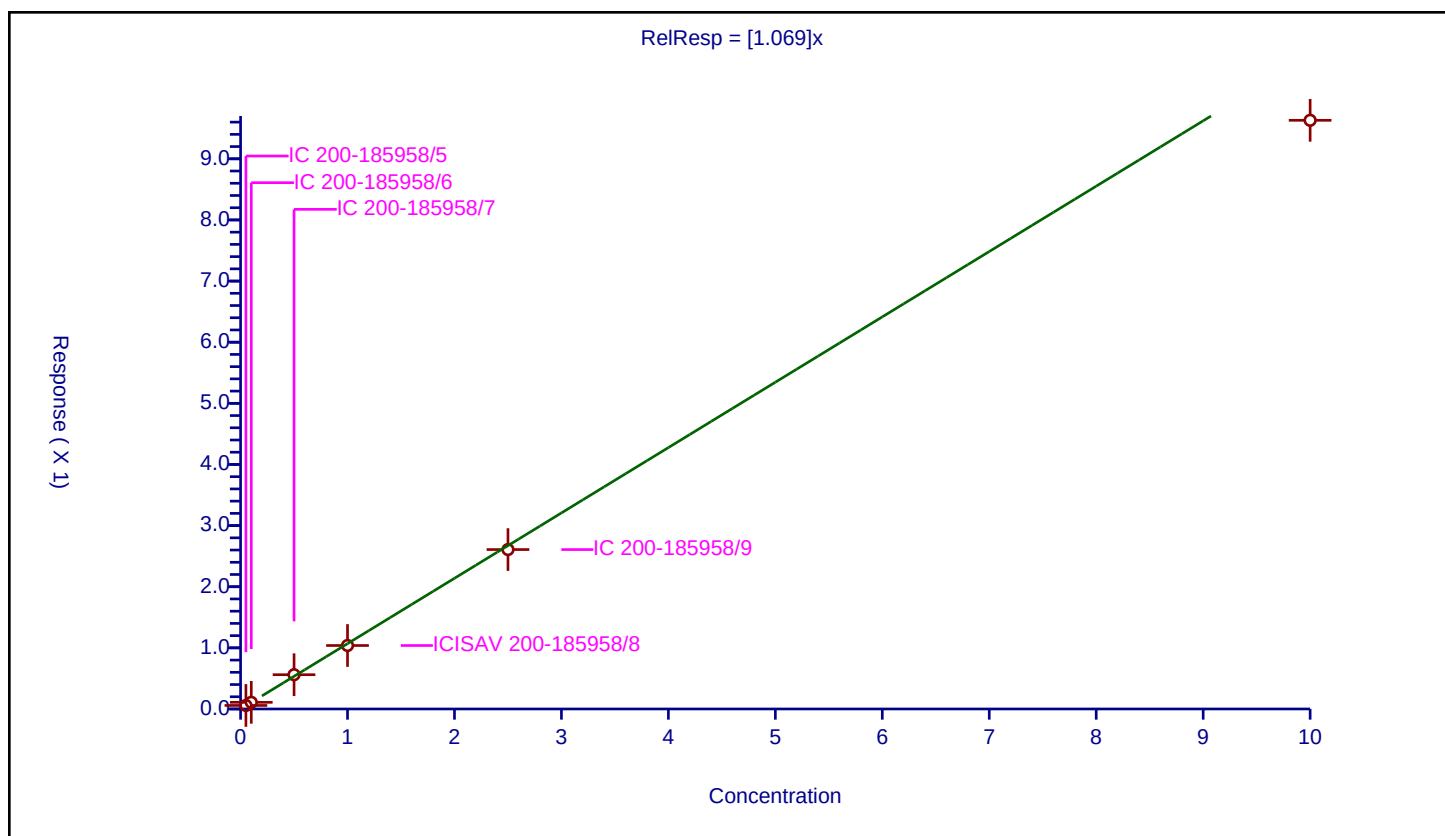
Curve Coefficients

Intercept: 0
Slope: 1.069

Error Coefficients

Standard Error: 8010000
Relative Standard Error: 6.5
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057928	1.25	2369880.0	1.158561	Y
2	IC 200-185958/6	0.1	0.10893	1.25	2369406.0	1.089303	Y
3	IC 200-185958/7	0.5	0.56085	1.25	2474245.0	1.1217	Y
4	ICISAV 200-185958/8	1.0	1.038544	1.25	2342274.0	1.038544	Y
5	IC 200-185958/9	2.5	2.607899	1.25	2522753.0	1.04316	Y
6	IC 200-185958/10	10.0	9.629585	1.25	2203793.0	0.962958	Y



Calibration

/ Perfluorooctanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

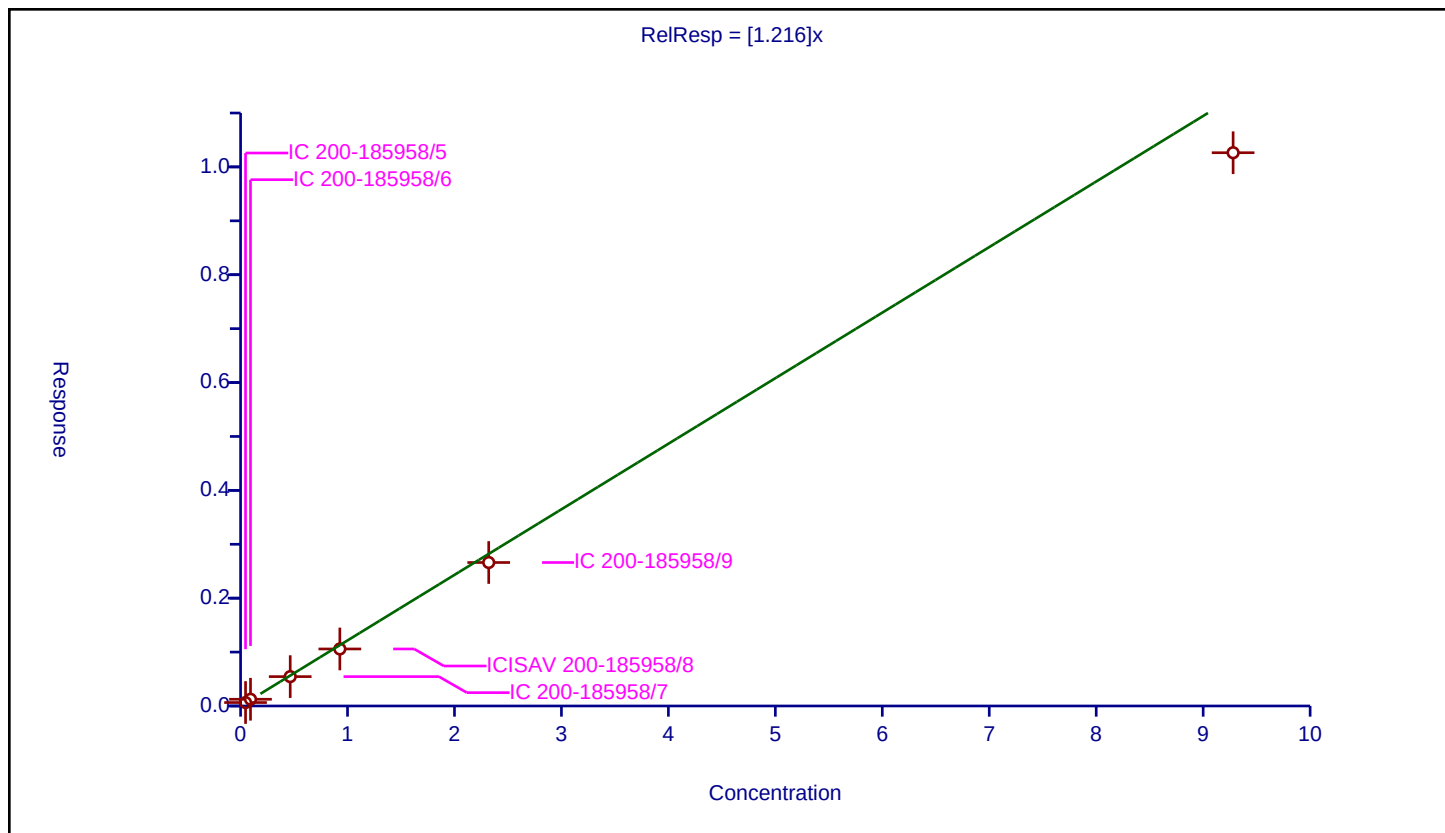
Curve Coefficients

Intercept: 0
 Slope: 1.216

Error Coefficients

Standard Error: 3980000
 Relative Standard Error: 9.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0464	0.064237	1.195	989045.0	1.38442	Y
2	IC 200-185958/6	0.0928	0.124818	1.195	1010315.0	1.345026	Y
3	IC 200-185958/7	0.464	0.544794	1.195	1035061.0	1.174126	Y
4	ICISAV 200-185958/8	0.928	1.057996	1.195	967441.0	1.140082	Y
5	IC 200-185958/9	2.32	2.66153	1.195	1049764.0	1.147211	Y
6	IC 200-185958/10	9.28	10.263454	1.195	993714.0	1.105976	Y



Calibration

/ Perfluorononanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

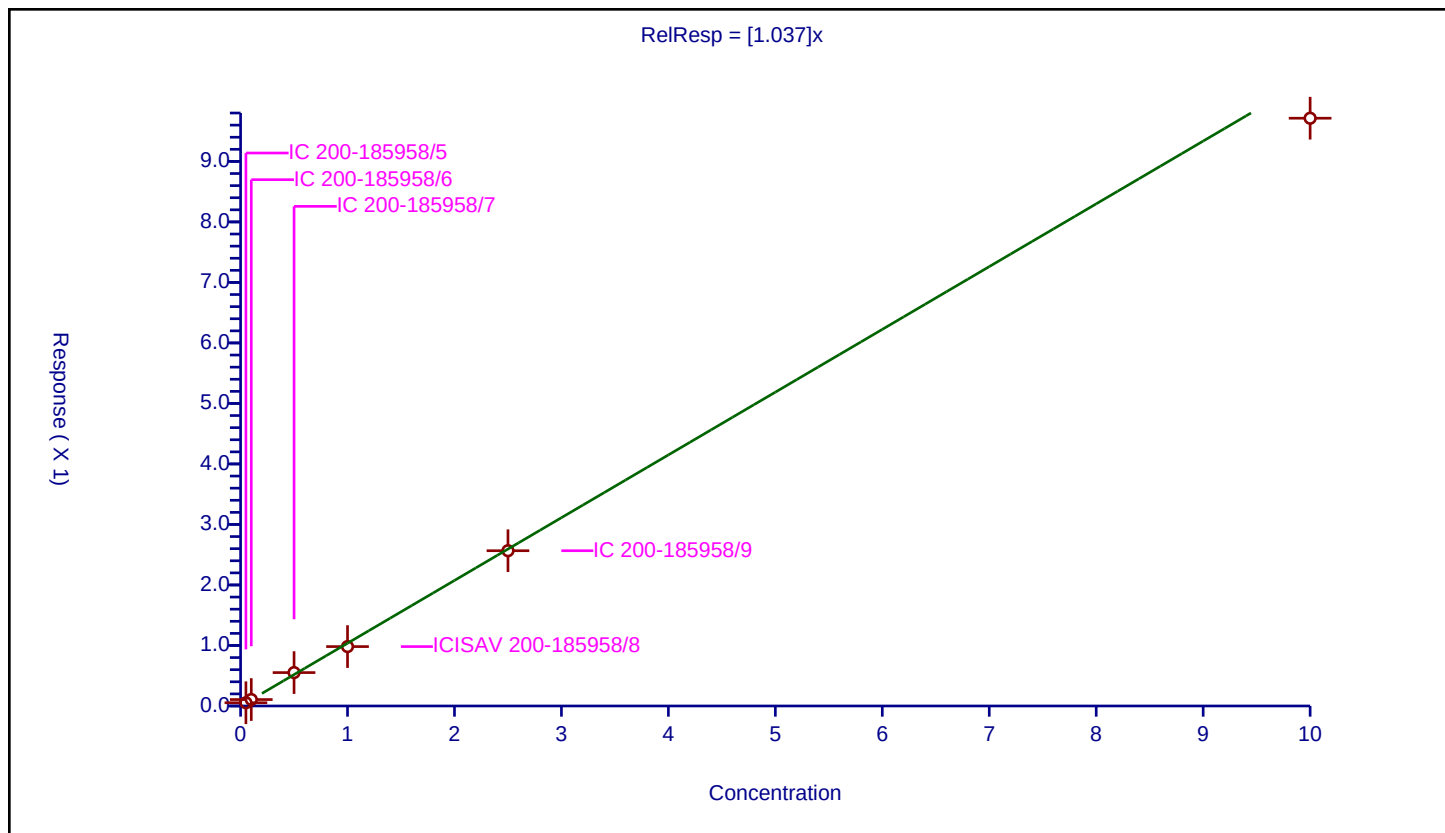
Curve Coefficients

Intercept: 0
Slope: 1.037

Error Coefficients

Standard Error: 7690000
Relative Standard Error: 5.1
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.053731	1.25	2280957.0	1.074615	Y
2	IC 200-185958/6	0.1	0.106615	1.25	2362013.0	1.066146	Y
3	IC 200-185958/7	0.5	0.551805	1.25	2379680.0	1.10361	Y
4	ICISAV 200-185958/8	1.0	0.981878	1.25	2356501.0	0.981878	Y
5	IC 200-185958/9	2.5	2.566207	1.25	2401890.0	1.026483	Y
6	IC 200-185958/10	10.0	9.713994	1.25	2102974.0	0.971399	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

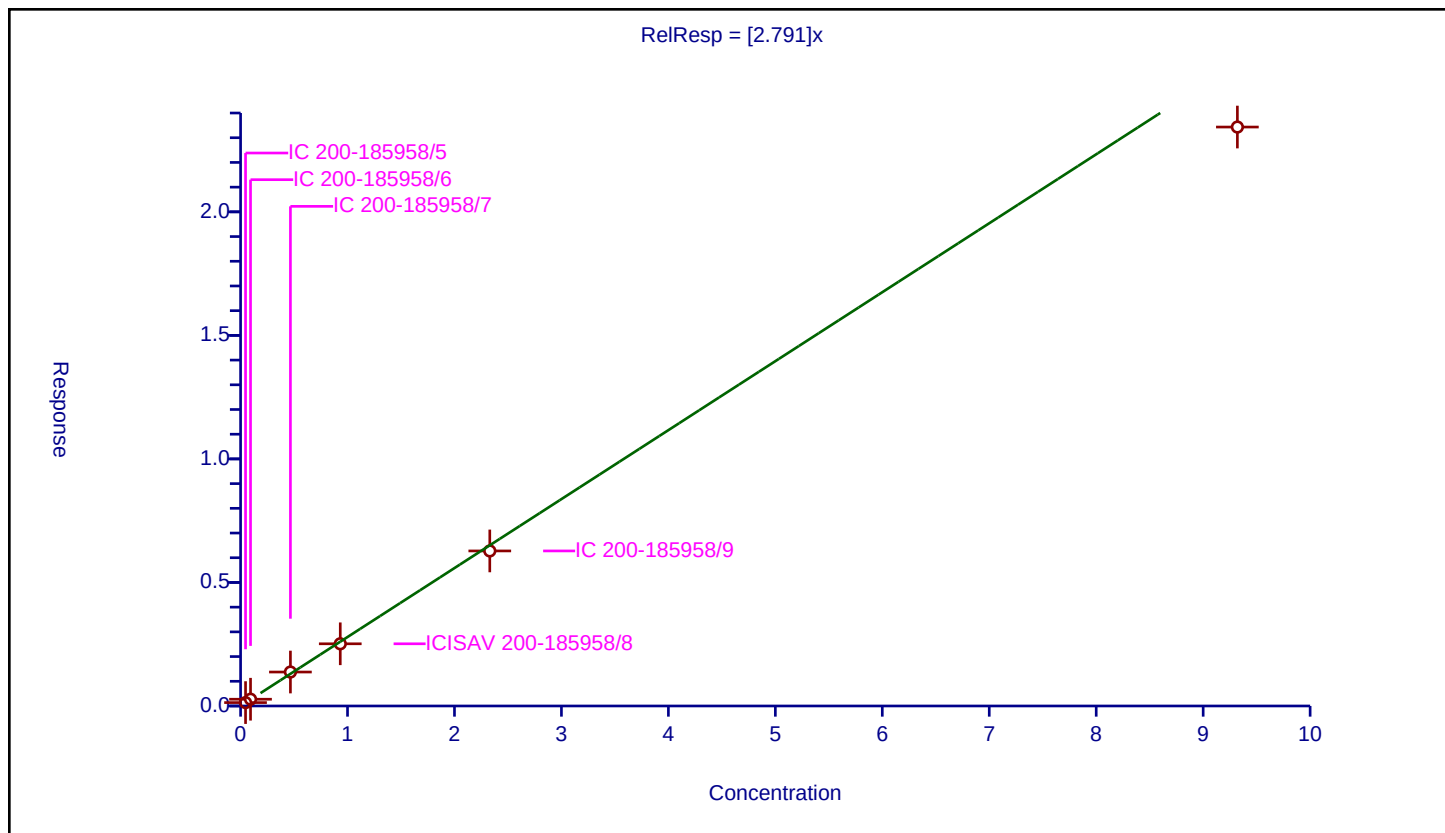
Curve Coefficients

Intercept: 0
 Slope: 2.791

Error Coefficients

Standard Error: 9120000
 Relative Standard Error: 6.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0466	0.13781	1.195	989045.0	2.957301	Y
2	IC 200-185958/6	0.0932	0.273121	1.195	1010315.0	2.930487	Y
3	IC 200-185958/7	0.466	1.375015	1.195	1035061.0	2.950677	Y
4	ICISAV 200-185958/8	0.932	2.517272	1.195	967441.0	2.700935	Y
5	IC 200-185958/9	2.33	6.275684	1.195	1049764.0	2.693427	Y
6	IC 200-185958/10	9.32	23.431976	1.195	993714.0	2.514161	Y



Calibration

/ Perfluorononanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

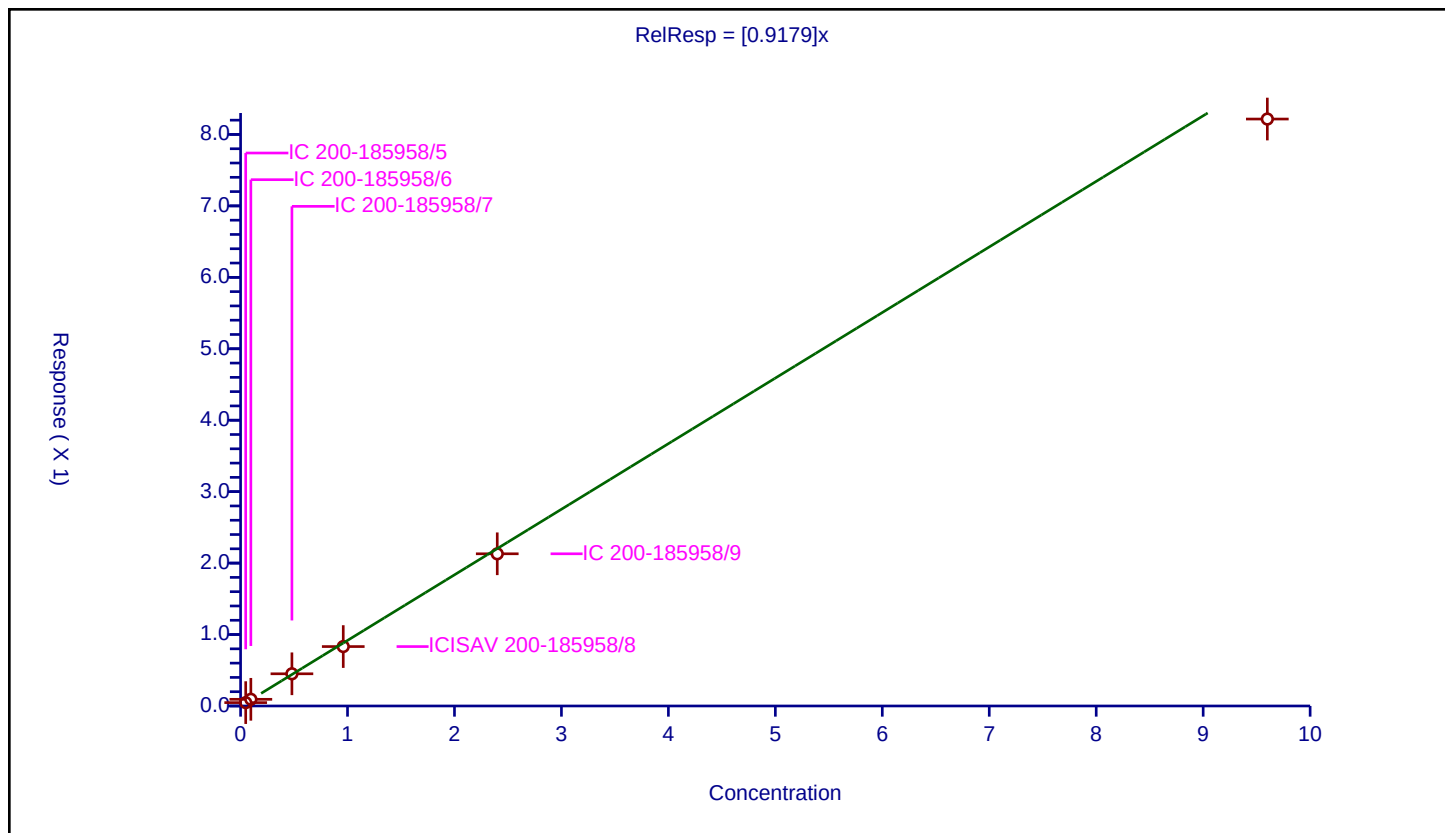
Curve Coefficients

Intercept: 0
 Slope: 0.9179

Error Coefficients

Standard Error: 3190000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.048	0.04718	1.195	989045.0	0.982925	Y
2	IC 200-185958/6	0.096	0.093669	1.195	1010315.0	0.975723	Y
3	IC 200-185958/7	0.48	0.450766	1.195	1035061.0	0.939095	Y
4	ICISAV 200-185958/8	0.96	0.831668	1.195	967441.0	0.866321	Y
5	IC 200-185958/9	2.4	2.130194	1.195	1049764.0	0.887581	Y
6	IC 200-185958/10	9.6	8.215732	1.195	993714.0	0.855805	Y



Calibration

/ Perfluorodecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

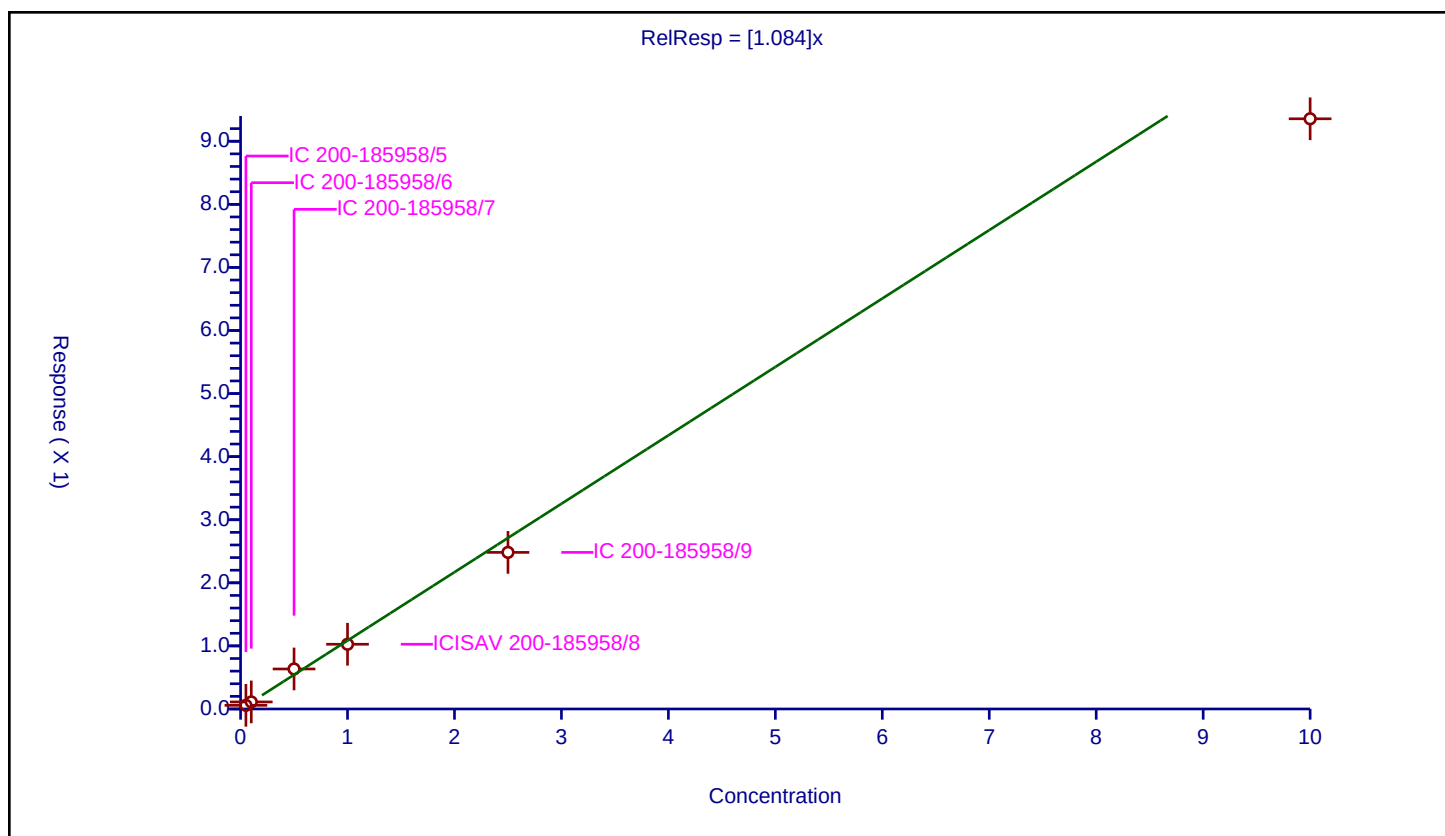
Curve Coefficients

Intercept: 0
 Slope: 1.084

Error Coefficients

Standard Error: 7850000
 Relative Standard Error: 11.3
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058304	1.25	2260154.0	1.166082	Y
2	IC 200-185958/6	0.1	0.11171	1.25	2439344.0	1.117098	Y
3	IC 200-185958/7	0.5	0.634421	1.25	2334094.0	1.268842	Y
4	ICISAV 200-185958/8	1.0	1.026097	1.25	2384612.0	1.026097	Y
5	IC 200-185958/9	2.5	2.482655	1.25	2491665.0	0.993062	Y
6	IC 200-185958/10	10.0	9.356046	1.25	2229691.0	0.935605	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

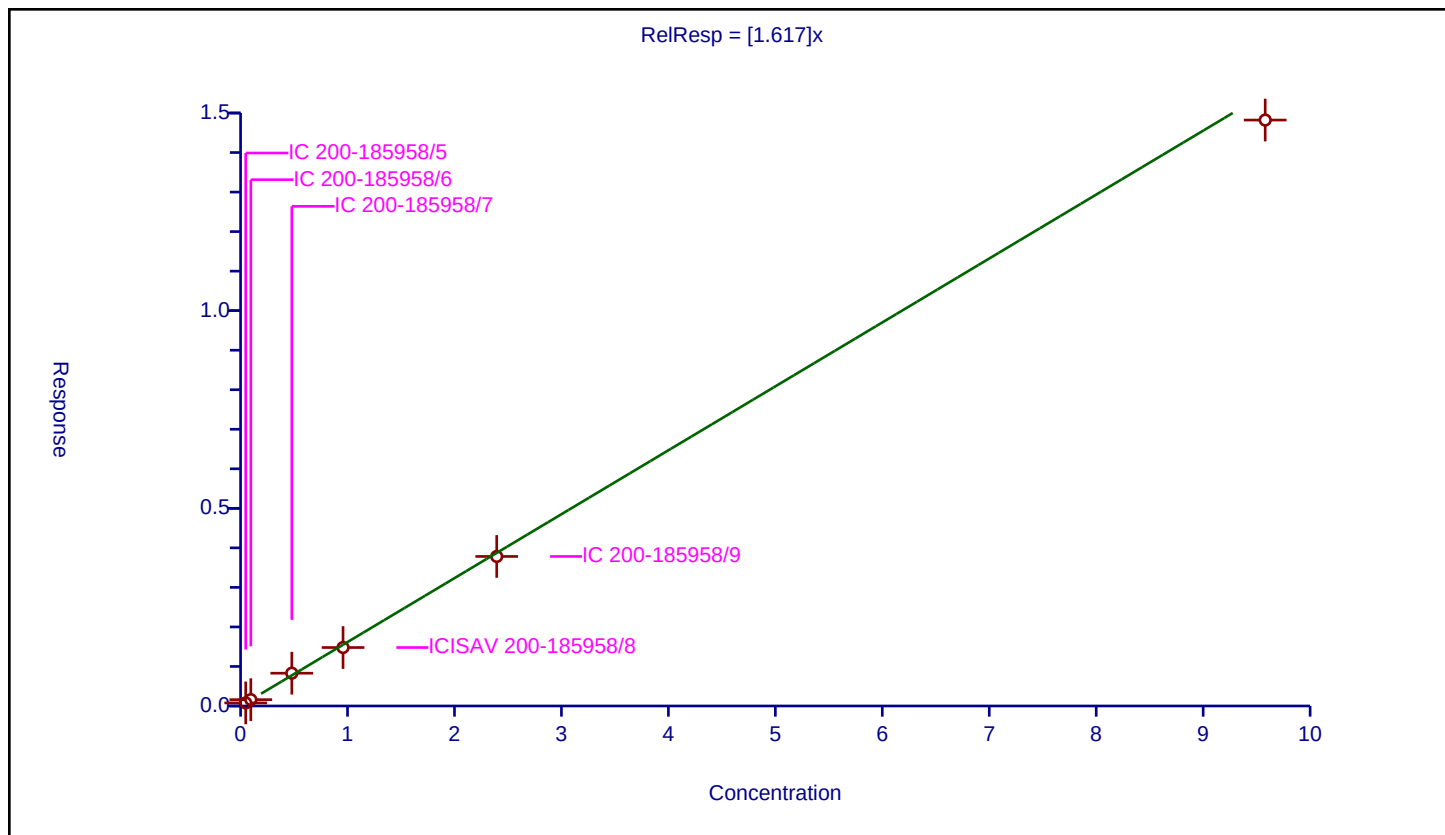
Curve Coefficients

Intercept: 0
 Slope: 1.617

Error Coefficients

Standard Error: 1610000
 Relative Standard Error: 4.6
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0479	0.07804	1.1975	306939.0	1.629233	Y
2	IC 200-185958/6	0.0958	0.159992	1.1975	307241.0	1.670065	Y
3	IC 200-185958/7	0.479	0.829647	1.1975	321045.0	1.732039	Y
4	ICISAV 200-185958/8	0.958	1.479261	1.1975	300249.0	1.544114	Y
5	IC 200-185958/9	2.395	3.782944	1.1975	321188.0	1.579517	Y
6	IC 200-185958/10	9.58	14.82207	1.1975	277266.0	1.547189	Y



Calibration

/ Perfluorooctanesulfonamide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

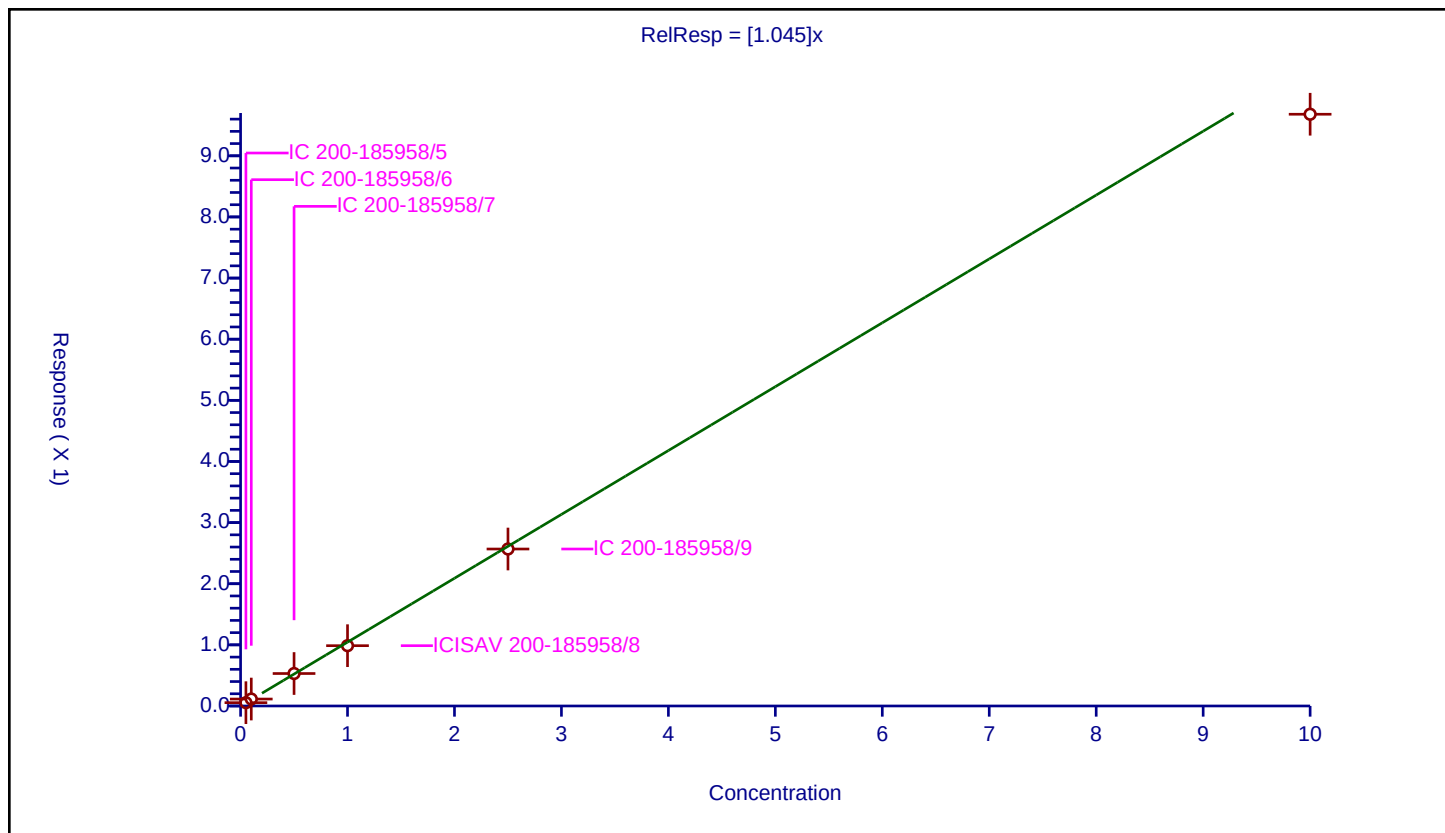
Curve Coefficients

Intercept: 0
 Slope: 1.045

Error Coefficients

Standard Error: 6920000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.054343	1.25	1923900.0	1.086868	Y
2	IC 200-185958/6	0.1	0.113824	1.25	1899612.0	1.138239	Y
3	IC 200-185958/7	0.5	0.53088	1.25	1967036.0	1.06176	Y
4	ICISAV 200-185958/8	1.0	0.986482	1.25	1879604.0	0.986482	Y
5	IC 200-185958/9	2.5	2.567614	1.25	1993351.0	1.027045	Y
6	IC 200-185958/10	10.0	9.680002	1.25	1914897.0	0.968	Y



Calibration

/ N-methylperfluorooctanesulfonamidoacetic acid

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

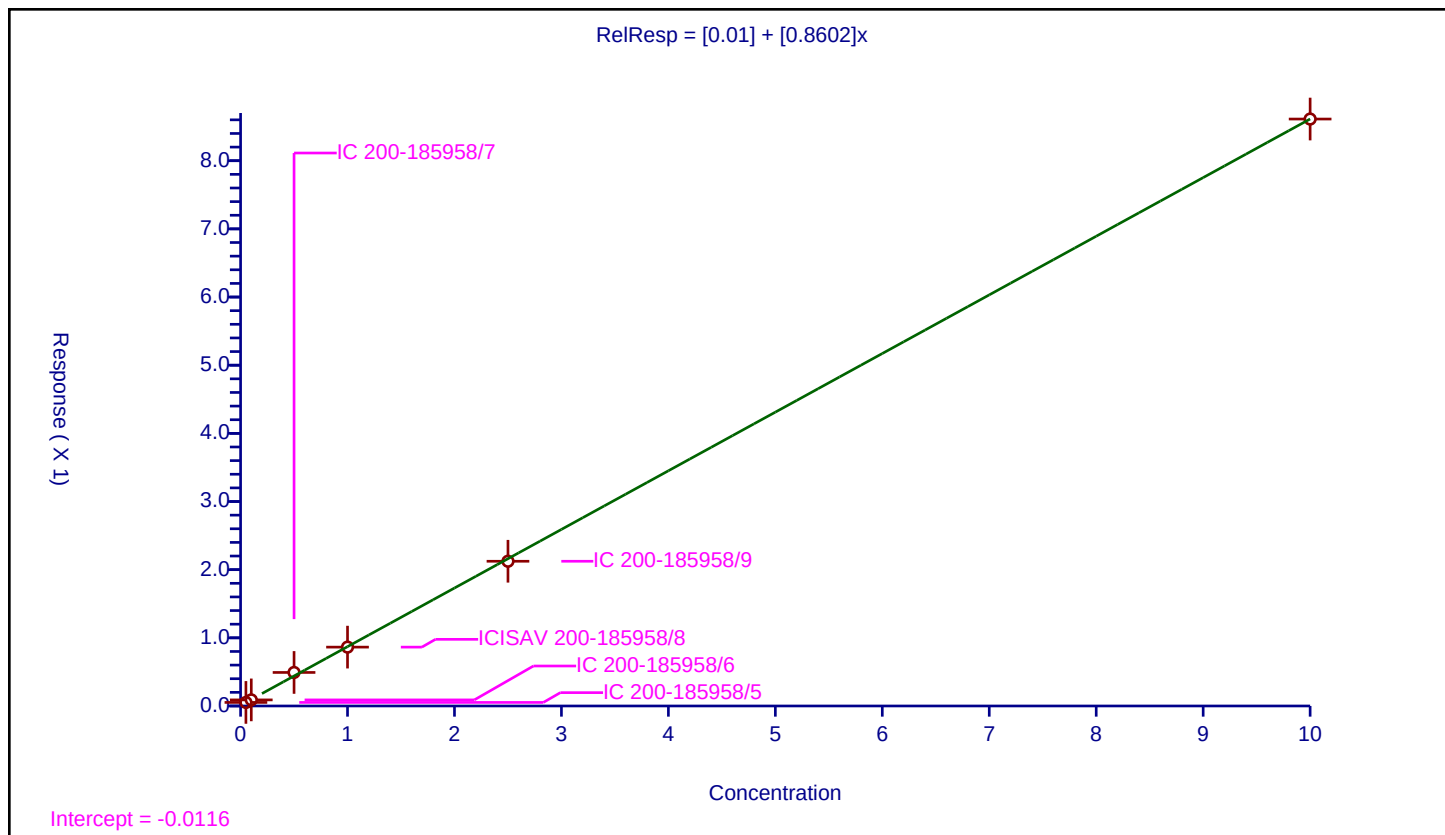
Curve Coefficients

Intercept: 0.01
Slope: 0.8602

Error Coefficients

Standard Error: 1720000
Relative Standard Error: 7.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.052273	1.25	467975.0	1.045462	Y
2	IC 200-185958/6	0.1	0.089246	1.25	478399.0	0.892456	Y
3	IC 200-185958/7	0.5	0.492116	1.25	466044.0	0.984231	Y
4	ICISAV 200-185958/8	1.0	0.863805	1.25	470154.0	0.863805	Y
5	IC 200-185958/9	2.5	2.12358	1.25	514239.0	0.849432	Y
6	IC 200-185958/10	10.0	8.611447	1.25	478582.0	0.861145	Y



Calibration

/ Perfluorodecanesulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

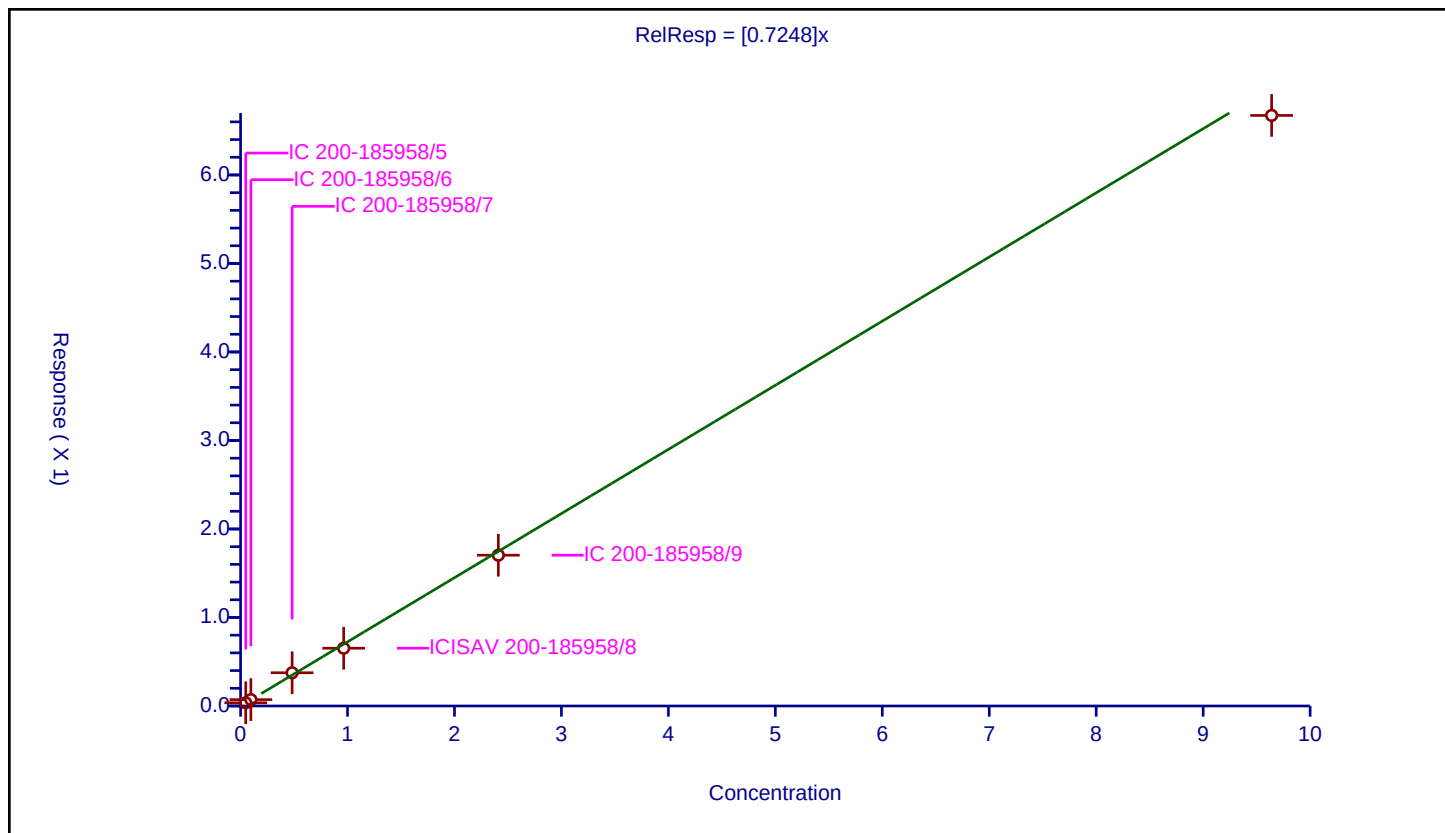
Curve Coefficients

Intercept: 0
Slope: 0.7248

Error Coefficients

Standard Error: 2590000
Relative Standard Error: 5.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0482	0.036026	1.195	989045.0	0.747427	Y
2	IC 200-185958/6	0.0964	0.071876	1.195	1010315.0	0.745605	Y
3	IC 200-185958/7	0.482	0.375663	1.195	1035061.0	0.779383	Y
4	ICISAV 200-185958/8	0.964	0.652643	1.195	967441.0	0.677016	Y
5	IC 200-185958/9	2.41	1.703873	1.195	1049764.0	0.707001	Y
6	IC 200-185958/10	9.64	6.672602	1.195	993714.0	0.692179	Y



Calibration

/ Perfluoroundecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

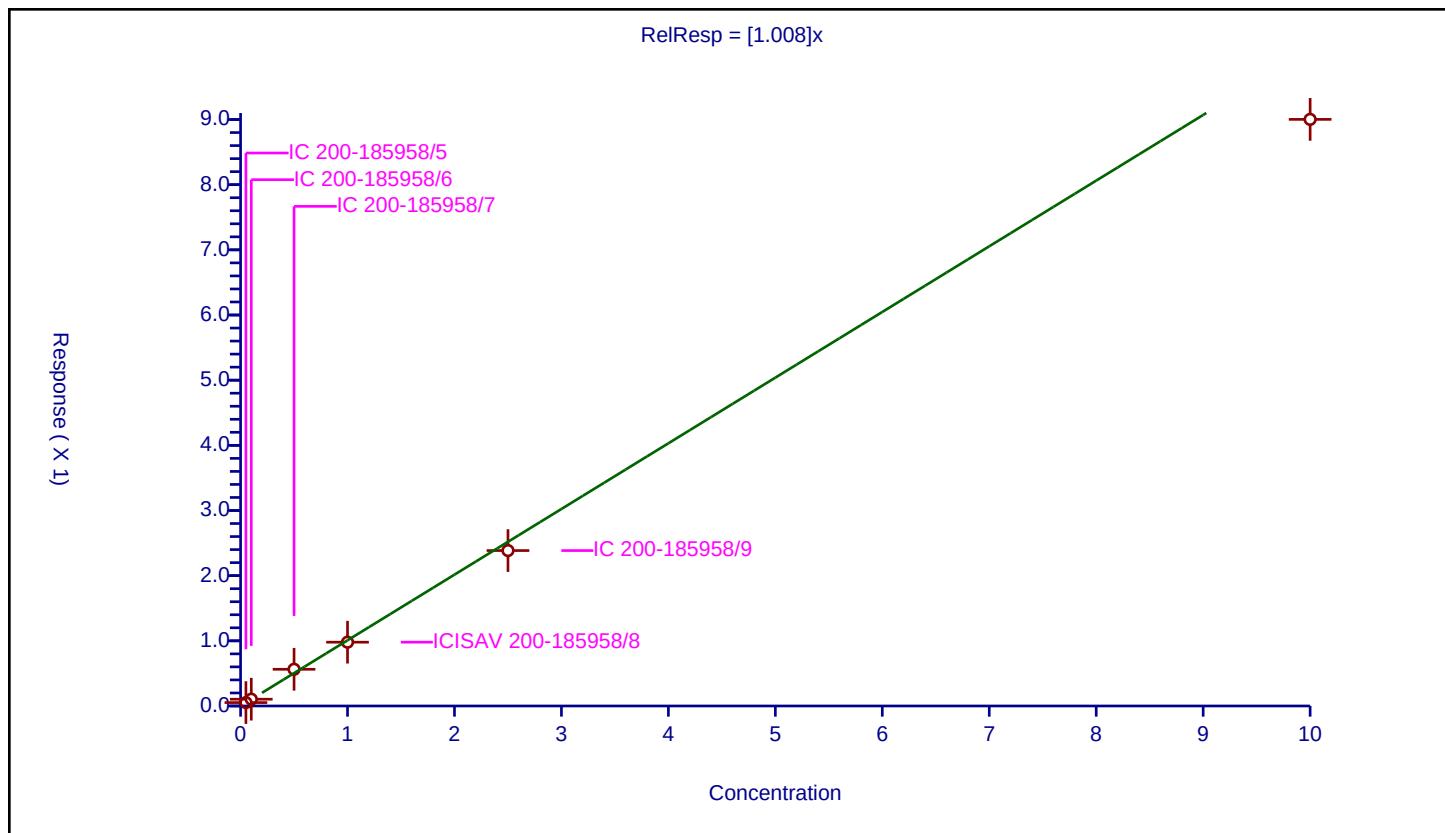
Curve Coefficients

Intercept: 0
 Slope: 1.008

Error Coefficients

Standard Error: 6680000
 Relative Standard Error: 7.9
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.052323	1.25	2191050.0	1.04645	Y
2	IC 200-185958/6	0.1	0.104069	1.25	2119319.0	1.040688	Y
3	IC 200-185958/7	0.5	0.563221	1.25	2230172.0	1.126441	Y
4	ICISAV 200-185958/8	1.0	0.97893	1.25	2183949.0	0.97893	Y
5	IC 200-185958/9	2.5	2.385205	1.25	2259671.0	0.954082	Y
6	IC 200-185958/10	10.0	9.002235	1.25	1967361.0	0.900224	Y



Calibration

/ N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

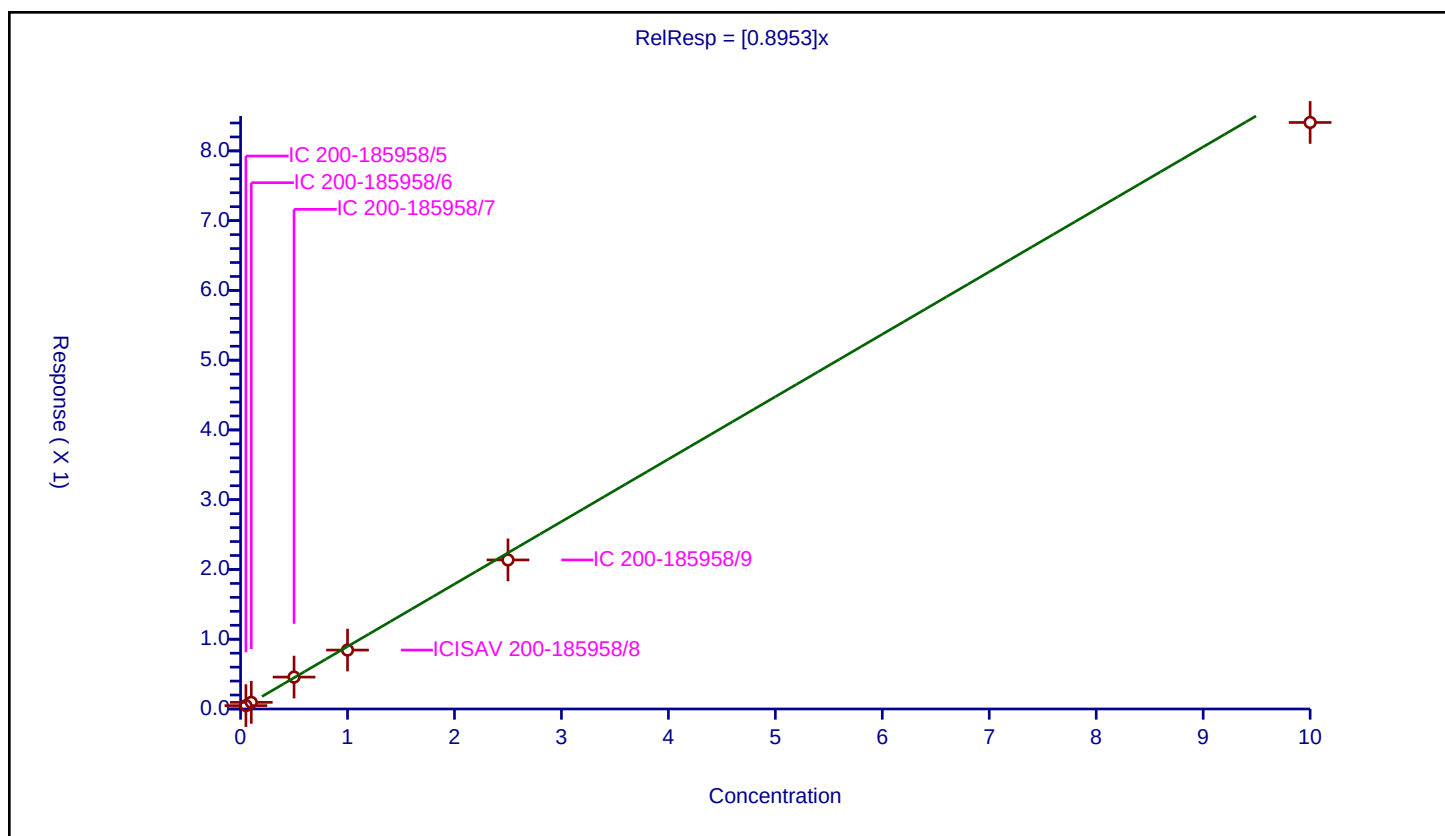
Curve Coefficients

Intercept: 0
 Slope: 0.8953

Error Coefficients

Standard Error: 1400000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.048292	1.25	453643.0	0.965848	Y
2	IC 200-185958/6	0.1	0.095082	1.25	481823.0	0.950816	Y
3	IC 200-185958/7	0.5	0.457326	1.25	498173.0	0.914652	Y
4	ICISAV 200-185958/8	1.0	0.844741	1.25	460360.0	0.844741	Y
5	IC 200-185958/9	2.5	2.136762	1.25	496655.0	0.854705	Y
6	IC 200-185958/10	10.0	8.407446	1.25	444955.0	0.840745	Y



Calibration

/ 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

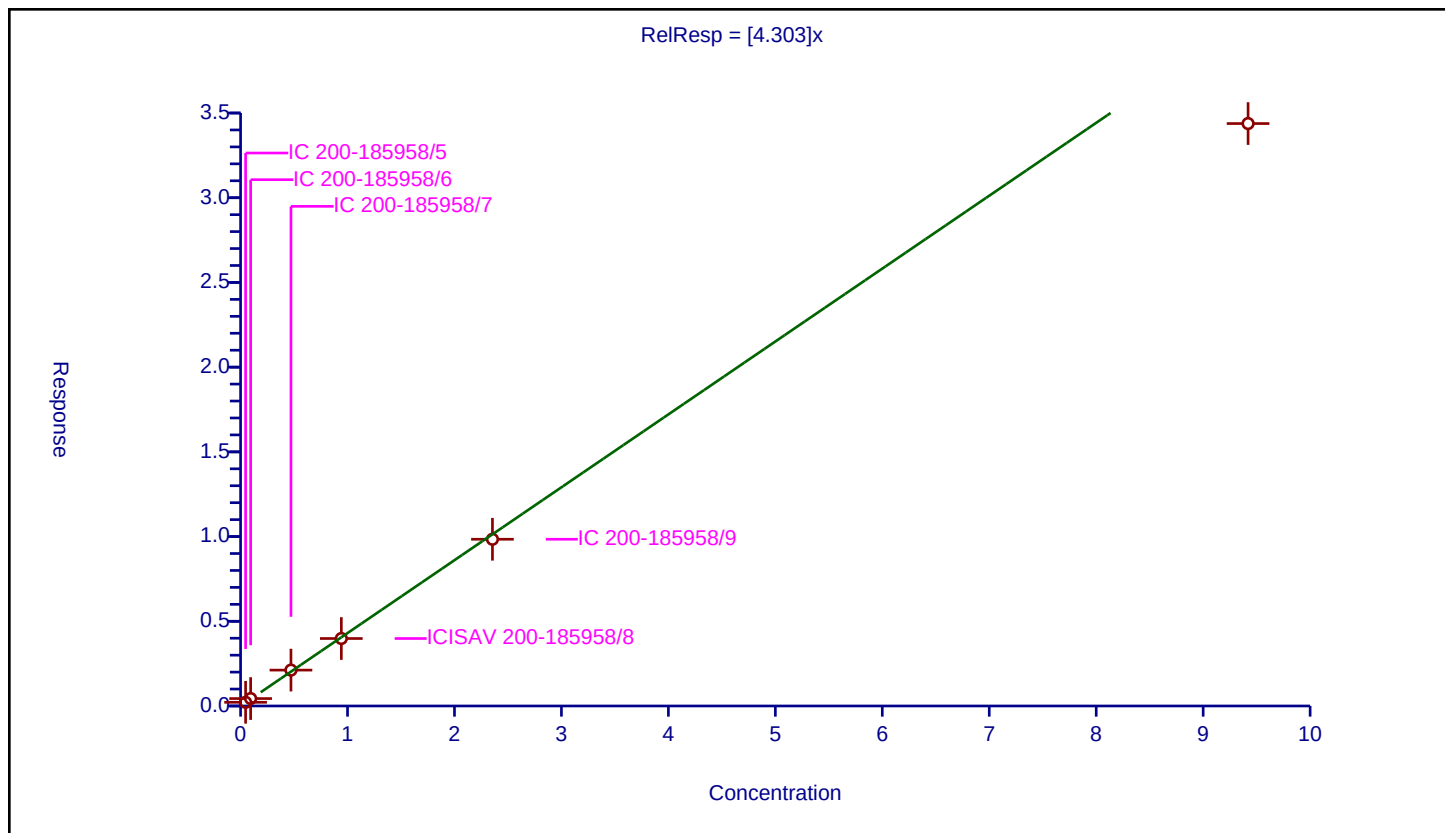
Curve Coefficients

Intercept: 0
Slope: 4.303

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 200-185958/5	0.0471	0.217404	1.195	989045.0	4.615796	Y
2	IC 200-185958/6	0.0942	0.437852	1.195	1010315.0	4.648113	Y
3	IC 200-185958/7	0.471	2.1174	1.195	1035061.0	4.495542	Y
4	ICISAV 200-185958/8	0.942	3.982746	1.195	967441.0	4.227968	Y
5	IC 200-185958/9	2.355	9.840794	1.195	1049764.0	4.178681	Y
6	IC 200-185958/10	9.42	34.378522	1.195	993714.0	3.649525	Y



Calibration

/ Perfluorododecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

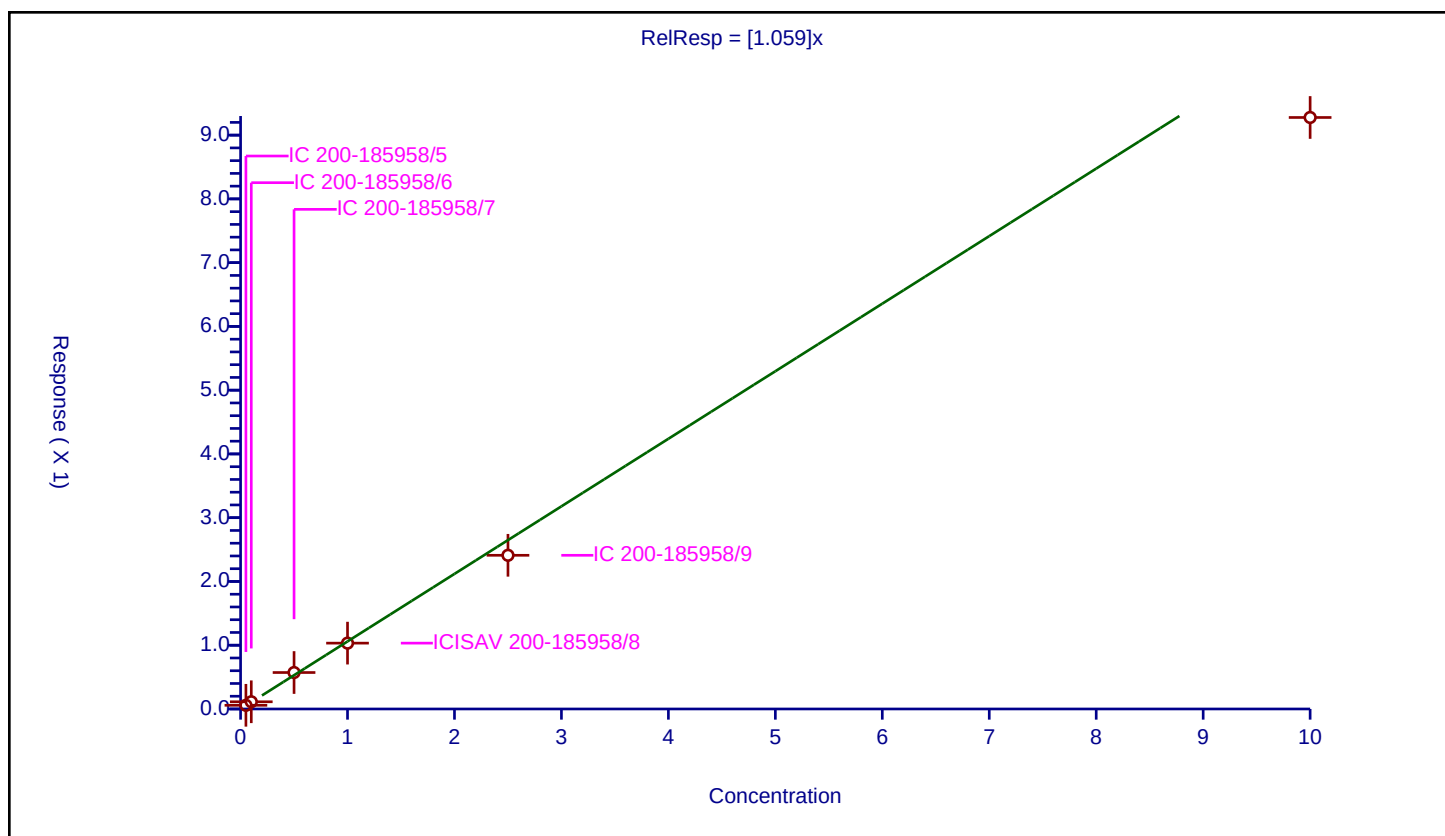
Curve Coefficients

Intercept: 0
 Slope: 1.059

Error Coefficients

Standard Error: 7330000
 Relative Standard Error: 9.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057802	1.25	2180352.0	1.15604	Y
2	IC 200-185958/6	0.1	0.11325	1.25	2150435.0	1.132498	Y
3	IC 200-185958/7	0.5	0.571786	1.25	2245926.0	1.143573	Y
4	ICISAV 200-185958/8	1.0	1.032719	1.25	2161023.0	1.032719	Y
5	IC 200-185958/9	2.5	2.410578	1.25	2344331.0	0.964231	Y
6	IC 200-185958/10	10.0	9.277066	1.25	2103698.0	0.927707	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

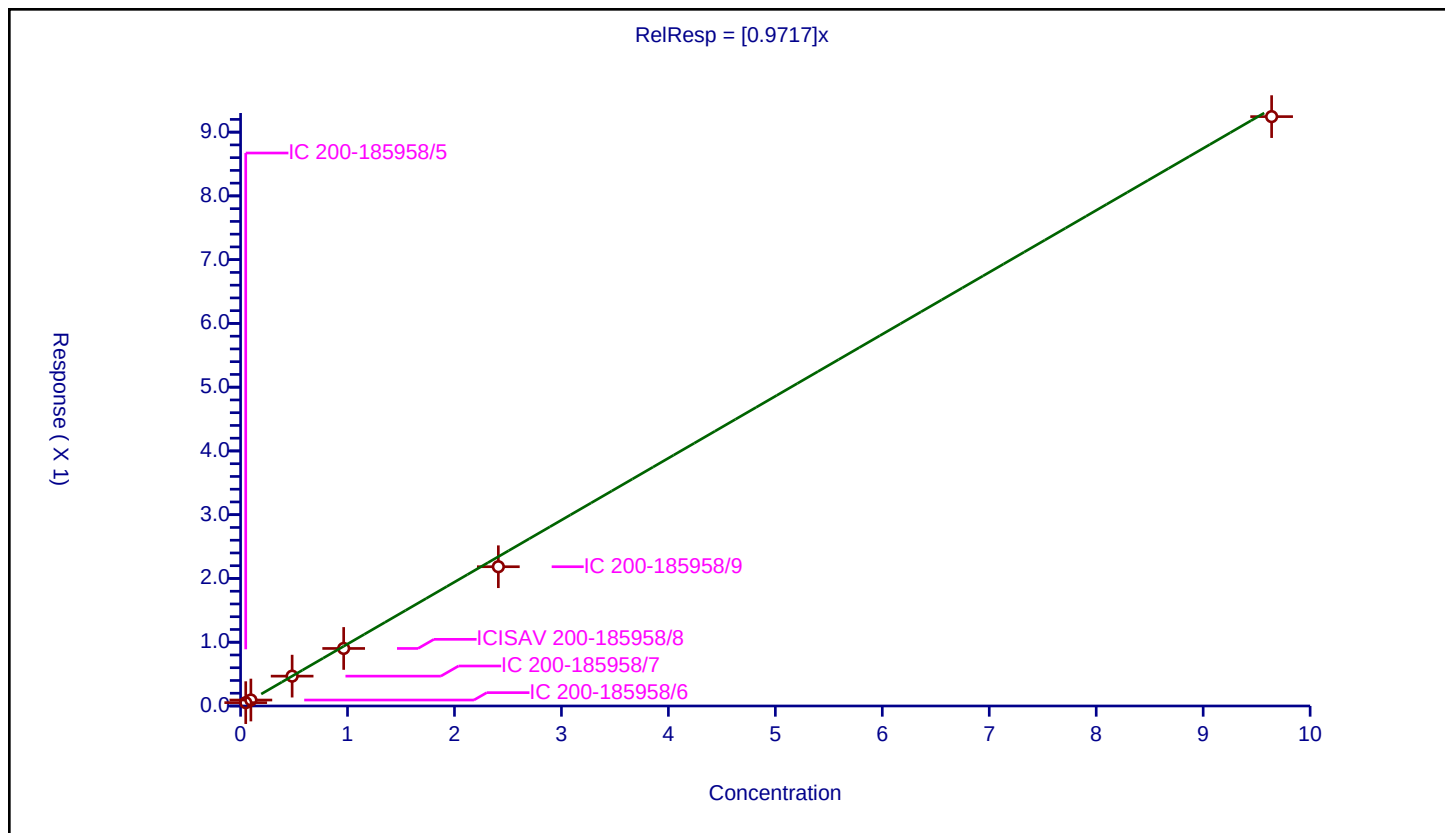
Curve Coefficients

Intercept: 0
Slope: 0.9717

Error Coefficients

Standard Error: 999000
Relative Standard Error: 6.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0482	0.052377	1.1975	306939.0	1.086653	Y
2	IC 200-185958/6	0.0964	0.093562	1.1975	307241.0	0.970557	Y
3	IC 200-185958/7	0.482	0.468291	1.1975	321045.0	0.971558	Y
4	ICISAV 200-185958/8	0.964	0.902429	1.1975	300249.0	0.93613	Y
5	IC 200-185958/9	2.41	2.184386	1.1975	321188.0	0.906384	Y
6	IC 200-185958/10	9.64	9.24351	1.1975	277266.0	0.95887	Y



Calibration

/ Perfluorododecanesulfonic acid (PFDoS)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

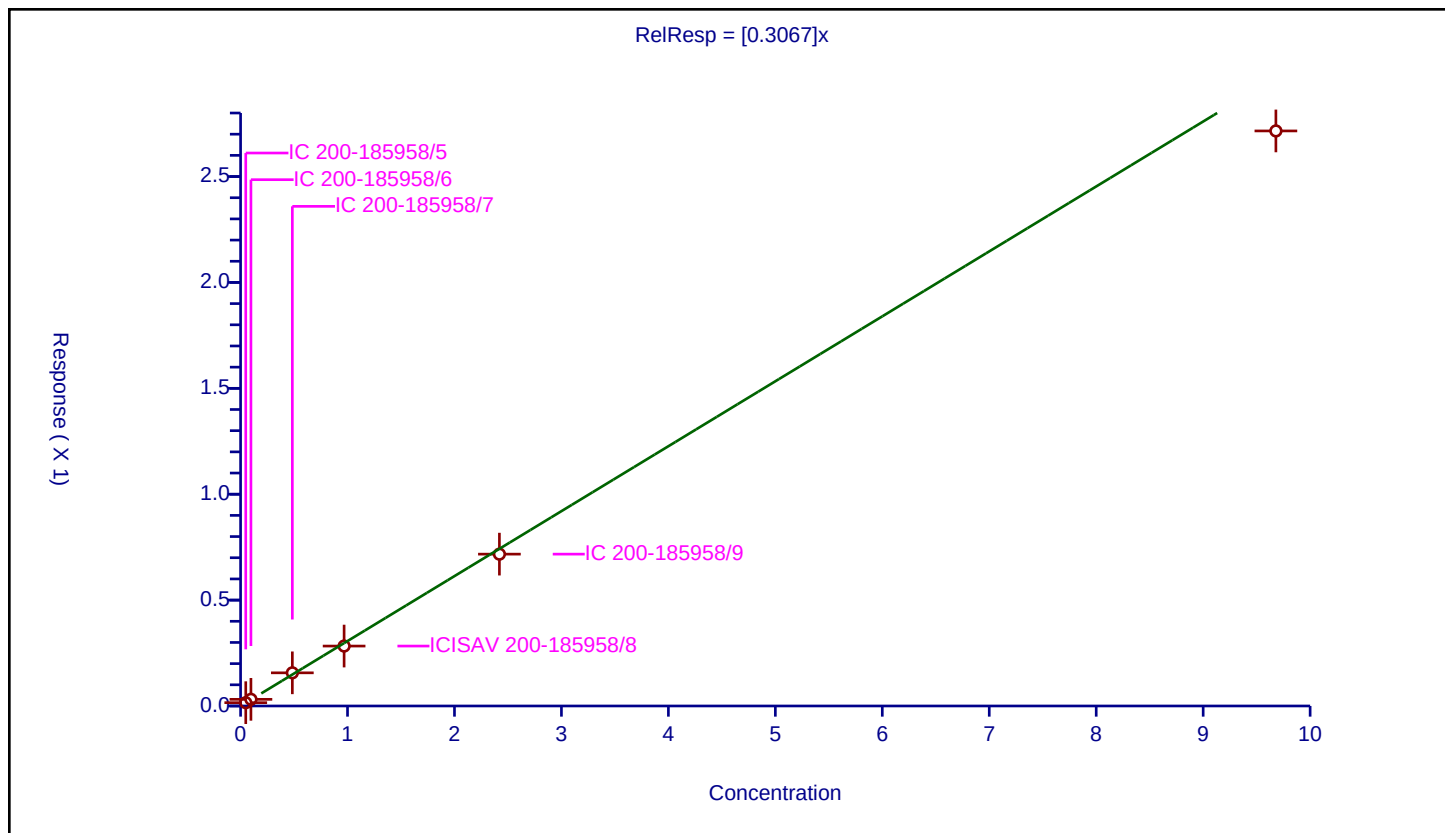
Curve Coefficients

Intercept: 0
Slope: 0.3067

Error Coefficients

Standard Error: 1060000
Relative Standard Error: 6.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0484	0.015619	1.195	989045.0	0.322704	Y
2	IC 200-185958/6	0.0968	0.031406	1.195	1010315.0	0.324439	Y
3	IC 200-185958/7	0.484	0.156619	1.195	1035061.0	0.323593	Y
4	ICISAV 200-185958/8	0.968	0.283004	1.195	967441.0	0.29236	Y
5	IC 200-185958/9	2.42	0.717039	1.195	1049764.0	0.296297	Y
6	IC 200-185958/10	9.68	2.715386	1.195	993714.0	0.280515	Y



Calibration

/ Perfluorotridecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

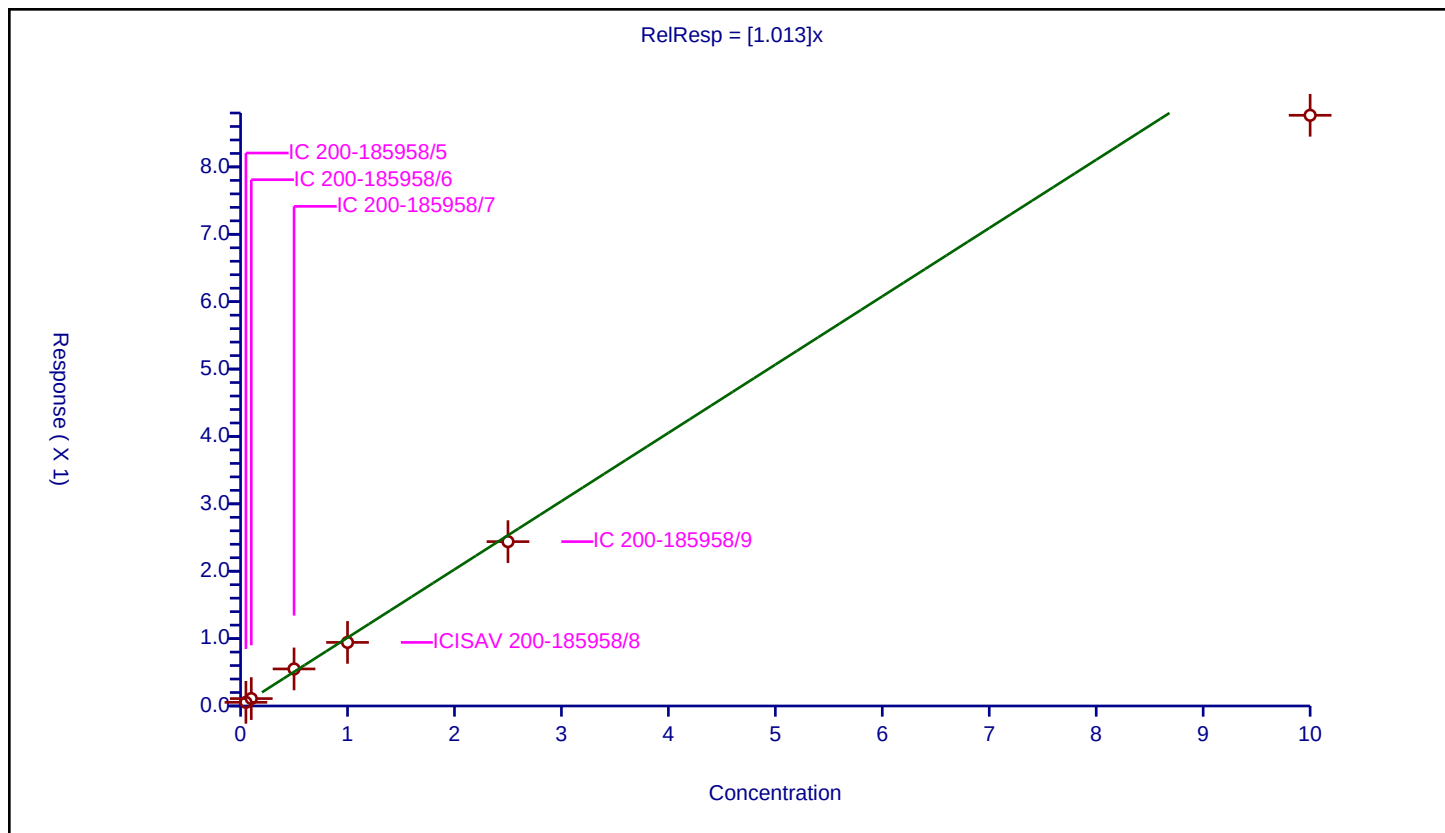
Curve Coefficients

Intercept: 0
 Slope: 1.013

Error Coefficients

Standard Error: 6960000
 Relative Standard Error: 9.3
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.05424	1.25	2180352.0	1.084802	Y
2	IC 200-185958/6	0.1	0.109896	1.25	2150435.0	1.098958	Y
3	IC 200-185958/7	0.5	0.549705	1.25	2245926.0	1.099411	Y
4	ICISAV 200-185958/8	1.0	0.943826	1.25	2161023.0	0.943826	Y
5	IC 200-185958/9	2.5	2.439331	1.25	2344331.0	0.975733	Y
6	IC 200-185958/10	10.0	8.7664	1.25	2103698.0	0.87664	Y



Calibration

/ Perfluorotetradecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

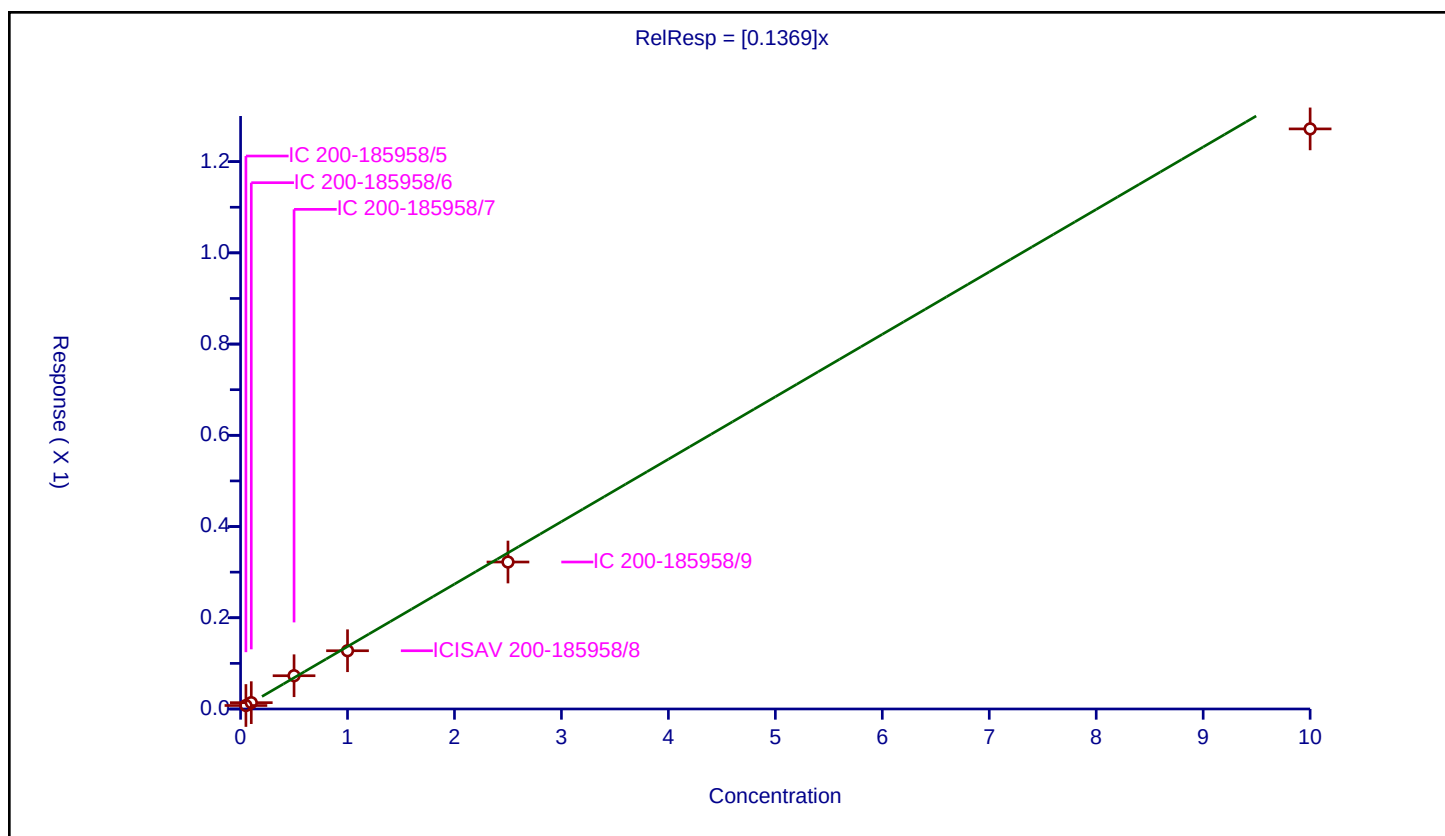
Curve Coefficients

Intercept: 0
Slope: 0.1369

Error Coefficients

Standard Error: 849000
Relative Standard Error: 7.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.007633	1.25	1883348.0	0.152654	Y
2	IC 200-185958/6	0.1	0.01391	1.25	1938056.0	0.139102	Y
3	IC 200-185958/7	0.5	0.072927	1.25	1947280.0	0.145853	Y
4	ICISAV 200-185958/8	1.0	0.127733	1.25	1844360.0	0.127733	Y
5	IC 200-185958/9	2.5	0.322232	1.25	2014799.0	0.128893	Y
6	IC 200-185958/10	10.0	1.271781	1.25	1782548.0	0.127178	Y



Calibration

/ Perfluorohexadecanoic acid

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

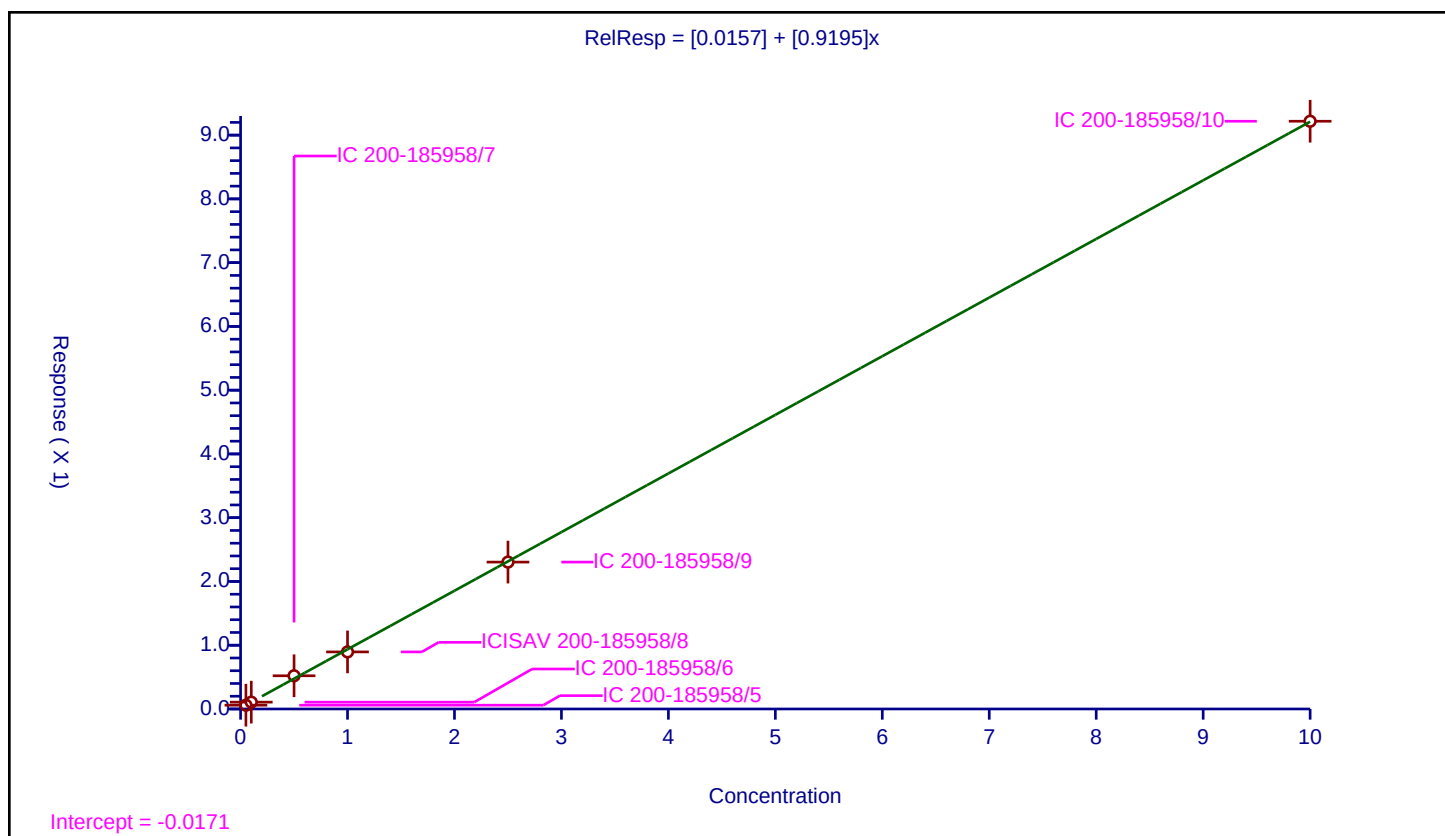
Curve Coefficients

Intercept: 0.0157
Slope: 0.9195

Error Coefficients

Standard Error: 8460000
Relative Standard Error: 5.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.059483	1.25	2380608.0	1.189665	Y
2	IC 200-185958/6	0.1	0.107268	1.25	2401907.0	1.072684	Y
3	IC 200-185958/7	0.5	0.521042	1.25	2348434.0	1.042085	Y
4	ICISAV 200-185958/8	1.0	0.895292	1.25	2280992.0	0.895292	Y
5	IC 200-185958/9	2.5	2.303983	1.25	2500657.0	0.921593	Y
6	IC 200-185958/10	10.0	9.21816	1.25	2191999.0	0.921816	Y



Calibration

/ Perfluorooctadecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

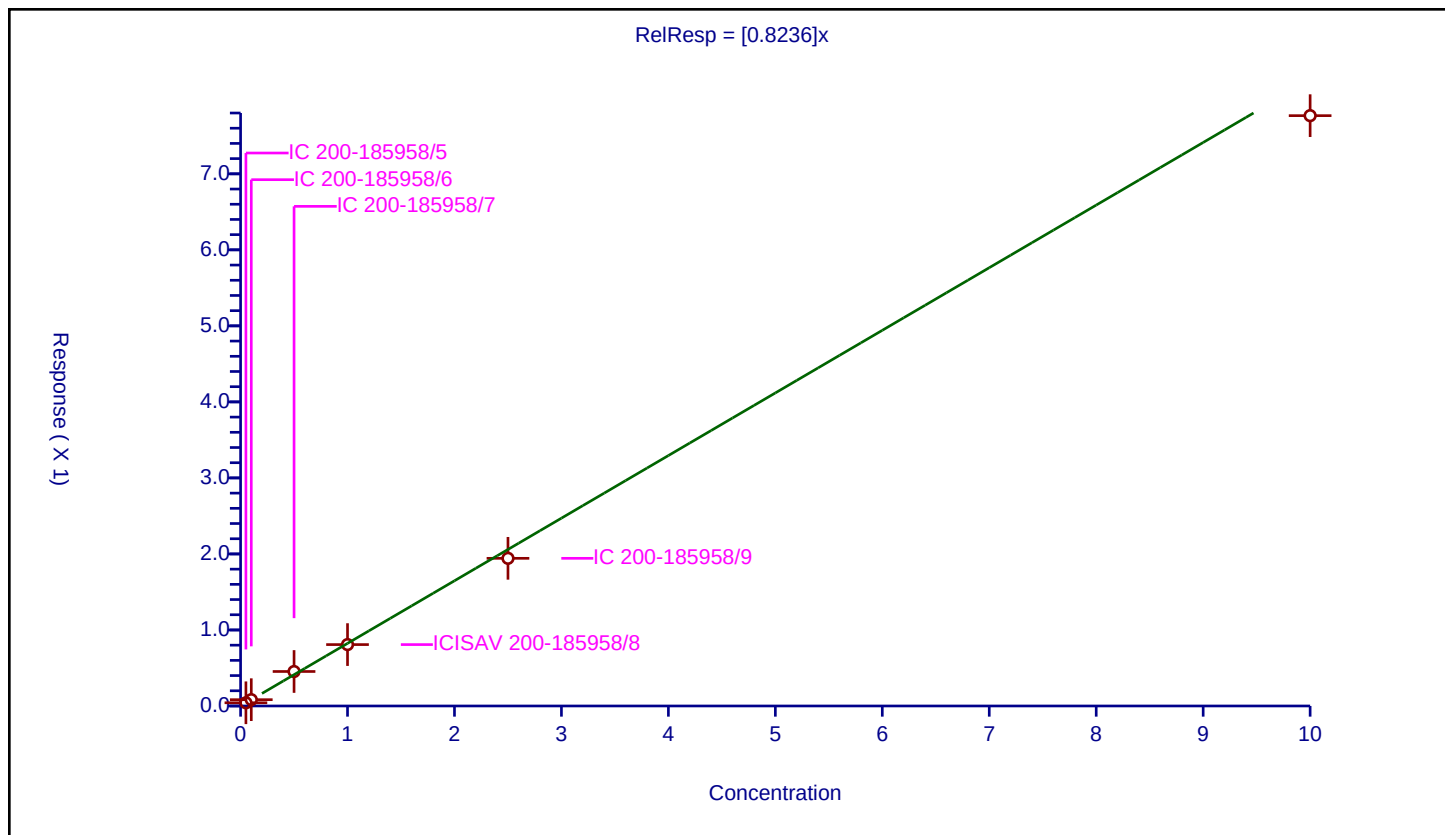
Curve Coefficients

Intercept: 0
Slope: 0.8236

Error Coefficients

Standard Error: 6380000
Relative Standard Error: 6.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.0422	1.25	2380608.0	0.843997	Y
2	IC 200-185958/6	0.1	0.082935	1.25	2401907.0	0.829346	Y
3	IC 200-185958/7	0.5	0.453549	1.25	2348434.0	0.907098	Y
4	ICISAV 200-185958/8	1.0	0.807566	1.25	2280992.0	0.807566	Y
5	IC 200-185958/9	2.5	1.942487	1.25	2500657.0	0.776995	Y
6	IC 200-185958/10	10.0	7.765225	1.25	2191999.0	0.776522	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: ICV 200-185958/12 Calibration Date: 11/18/2022 15:27

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221118ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	1.051		1.02	1.00	1.9	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.160		1.08	1.01	6.4	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.119		0.978	1.00	-2.2	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	3.259		1.06	1.00	5.8	30.0
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.094		1.01	1.01	0.4	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.467		1.10	1.00	9.8	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	1.116		1.07	1.01	5.7	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.181		1.06	1.01	4.6	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.047		0.962	1.00	-3.8	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.802		1.05	1.00	5.4	30.0
6:2 FTS	L1ID		2.267		1.06	1.00	6.1	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.443		1.03	1.00	3.3	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.093		1.02	1.00	2.3	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.026		0.852	1.01	-15.7	30.0
Perfluorononanoic acid (PFNA)	AveID	1.037	1.136		1.10	1.00	9.5	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.843		1.02	1.00	1.9	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.9153		1.01	1.01	-0.3	30.0
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.085		1.00	1.00	0.0	30.0
8:2 FTS	AveID	1.617	1.762		1.10	1.01	9.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	1.021		0.977	1.00	-2.3	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.9586		1.10	1.00	10.3	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.7477		1.04	1.01	3.2	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9695		0.962	1.00	-3.8	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.9331		1.04	1.00	4.2	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.451		1.04	1.00	3.5	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.035		0.977	1.00	-2.3	30.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	0.8818		0.875	0.964	-9.3	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2712		0.856	0.968	-11.6	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Lab Sample ID: ICV 200-185958/12 Calibration Date: 11/18/2022 15:27
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221118ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9240		0.912	1.00	-8.8	30.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1516		1.11	1.00	10.7	30.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8295		0.885	1.00	-11.5	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.7059		0.857	1.00	-14.3	30.0
13C4 PFBA	Ave	1.122	0.9202		1.03	1.25	-18.0	50.0
13C5 PFPeA	Ave	0.8543	0.7101		1.04	1.25	-16.9	50.0
13C3 PFBS	Ave	0.9281	0.7971		0.998	1.16	-14.1	50.0
M2-4:2 FTS	Ave	0.0820	0.0686		0.977	1.17	-16.3	50.0
13C2 PFHxA	Ave	0.8951	0.7748		1.08	1.25	-13.4	50.0
13C3 HFPO-DA	Ave	0.1580	0.1330		1.05	1.25	-15.8	50.0
18O2 PFHxS	Ave	0.6761	0.5654		0.989	1.18	-16.4	50.0
13C4 PFHpA	Ave	0.9206	0.7694		1.05	1.25	-16.4	50.0
M2-6:2 FTS	Ave	0.1134	0.0945		0.989	1.19	-16.7	50.0
13C4 PFOA	Ave	1.035	0.8655		1.05	1.25	-16.4	50.0
13C4 PFOS	Ave	0.4588	0.3894		1.01	1.20	-15.1	50.0
13C5 PFNA	Ave	1.006	0.8541		1.06	1.25	-15.1	50.0
13C2 PFDA	Ave	1.025	0.9007		1.10	1.25	-12.1	50.0
M2-8:2 FTS	Ave	0.1387	0.1166		1.01	1.20	-16.0	50.0
13C8 FOSA	Ave	0.8403	0.7085		1.05	1.25	-15.7	50.0
d3-NMeFOSAA	Ave	0.2087	0.1754		1.05	1.25	-15.9	50.0
13C2 PFUnA	Ave	0.9385	0.7727		1.03	1.25	-17.7	50.0
d5-NEtFOSAA	Ave	0.2055	0.1778		1.08	1.25	-13.5	50.0
13C2 PFDoA	Ave	0.9562	0.8116		1.06	1.25	-15.1	50.0
13C2 PFTeDA	Ave	0.8270	0.7097		1.07	1.25	-14.2	50.0
13C2 PFHxDA	Ave	1.022	0.9092		1.11	1.25	-11.1	50.0

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Nov-2022 15:27:08 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0053396-012 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 21-Nov-2022 08:34:01 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:40:06

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										M
217.00 > 172.00	2.076	2.076	0.0	0.602	2670376	1.03		82.0	5679	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	2244563	1.02			201	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2060643	1.04		83.1	4220	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1931131	1.07			51.6	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2151403	1.00		85.9	366569	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	2070709	0.9780	Target=2.09		2506	M
298.90 > 99.00	2.400	2.400	0.0	1.000	975791		2.12(1.04-3.13)		774	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	519266	1.06			2152	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.783	186032	0.9770		83.7	221	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2248529	1.08		86.6	4586	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1986916	1.01	Target=14.25		367	M
313.00 > 119.00	2.725	2.725	0.0	1.000	140975		14.09(7.12-21.37)		245	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	1925334	1.10	Target=3.04		2369	M
349.00 > 99.00	2.737	2.737	0.0	0.887	614001		3.14(1.52-4.56)		1153	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	348107	1.07			2459	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	2.835	2.835	0.0	0.822	385915	1.05		84.2	3630	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1552107	0.9887		83.6	4490	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	1565688	1.06	Target=3.66		1350	M
399.00 > 99.00	3.088	3.088	0.0	1.000	416511		3.76(1.83-5.49)		495	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2232924	1.04		83.6	5810	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.000	1870498	0.9617	Target=3.97		389	
363.00 > 169.00	3.099	3.099	0.0	1.000	511272		3.66(1.98-5.95)		1195	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	5246009	1.05	Target=3.16		4174	
377.00 > 85.00	3.132	3.132	0.0	0.832	1647134		3.18(1.58-4.73)		2385	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	260442	0.9894		83.3	864	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	497227	1.06			1080	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.439	3.439	0.0	0.914	1304864	1.03	Target=5.14		2018	M
449.00 > 99.00	3.439	3.439	0.0	0.914	252176		5.17(2.57-7.72)		1072	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2511617	1.05		83.6	5014	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2902090	1.25			4497	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	2197145	1.02	Target=2.79		168	M
413.00 > 169.00	3.448	3.448	0.0	1.000	773803		2.84(1.40-4.19)		836	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1080464	1.01		84.9	3142	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.764	0.0	1.000	936613	0.8518	Target=5.11		242	M
499.00 > 99.00	3.764	3.764	0.0	1.000	204498		4.58(2.55-7.66)		186	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	2253063	1.10	Target=8.55		488	
463.00 > 169.00	3.783	3.783	0.0	1.000	255525		8.82(4.28-12.83)		1449	
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2478667	1.06		84.9	10218	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	2570823	1.02			4667	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	835829	1.01	Target=2.53		3263	
549.00 > 99.00	4.061	4.050	0.011	1.079	326669		2.56(1.27-3.80)		1661	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2613997	1.10		87.9	7780	

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	4.081	4.081	0.0	1.000	2269026	1.00	Target=10.26		791	M
513.00 > 169.00	4.081	4.081	0.0	1.000	227346		9.98(5.13-15.38)		386	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	324039	1.01		84.0	1254	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	481604	1.10			1586	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1679557	0.9774			2056	
D 21 13C8 FOSA										M
506.00 > 78.00	4.150	4.150	0.0	1.204	2056044	1.05		84.3	1897	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	509127	1.05		84.1	760	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	390455	1.10			500	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	682801	1.04	Target=2.51		3633	
599.00 > 99.00	4.331	4.331	0.0	1.151	261561		2.61(1.25-3.76)		1945	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2242424	1.03		82.3	3383	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	1739241	0.9620	Target=9.88		468	M
563.00 > 169.00	4.353	4.353	0.0	1.000	177599		9.79(4.94-14.82)		266	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	385250	1.04			836	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	516078	1.08		86.5	1182	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	4024467	1.03			8552	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	1949526	0.9766	Target=7.77		130	M
613.00 > 169.00	4.602	4.591	0.011	1.002	268146		7.27(3.89-11.66)		673	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2355331	1.06		84.9	2733	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	230011	0.8748			916	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	237361	0.8561	Target=0.50		2013	M
699.00 > 99.00	4.776	4.776	0.0	1.269	476521		0.50(0.25-0.76)		3025	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.048	1741096	0.9120	Target=5.21		114	M
663.00 > 169.00	4.813	4.804	0.009	1.048	325181		5.35(2.60-7.81)		282	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	249797	1.11	Target=0.89		753	
713.00 > 219.00	5.002	5.012	-0.010	0.998	272856		0.92(0.44-1.33)		351	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.454	2059701	1.07		85.8	2818	M

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	5.378	5.367	0.011	1.002	1751027	0.8850	Target=5.65		151	M
813.00 > 169.00	5.378	5.367	0.011	1.002	292027		6.00(2.82-8.47)		1291	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.367	5.367	0.0	1.557	2638658	1.11		88.9	6236	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	1490002	0.8570	Target=6.24		142	M
913.00 > 169.00	5.722	5.722	0.0	1.066	233541		6.38(3.12-9.36)		710	M

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\20221118-53396.b\PA221118ICAL12.d

Injection Date: 18-Nov-2022 15:27:08

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: lc812tech

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

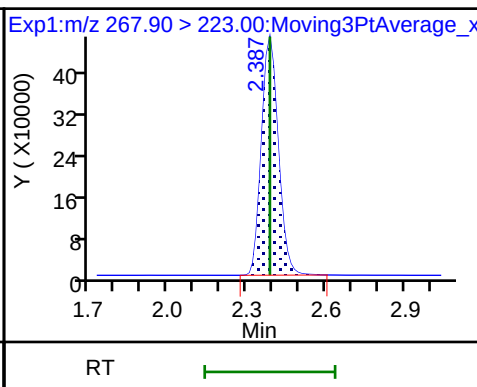
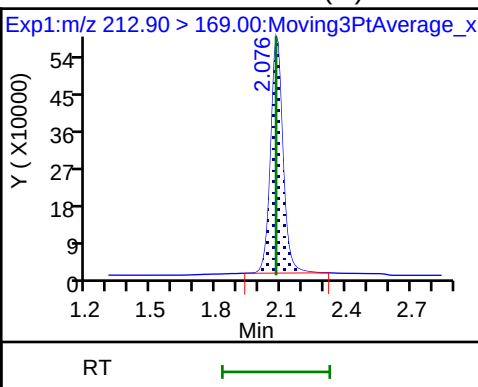
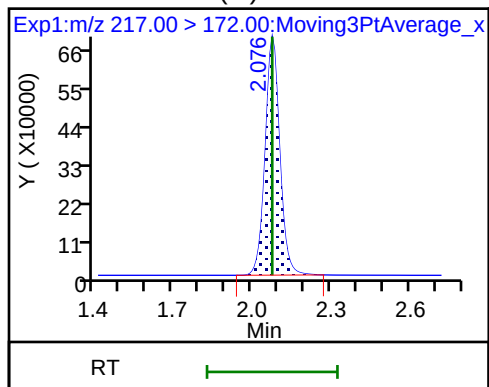
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

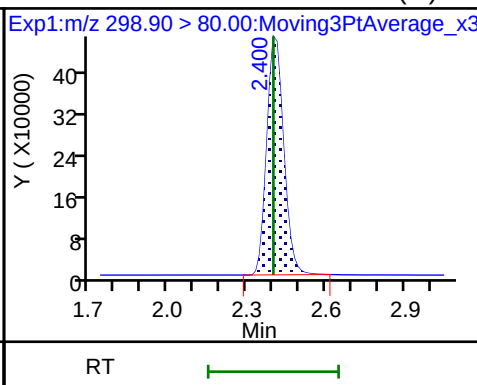
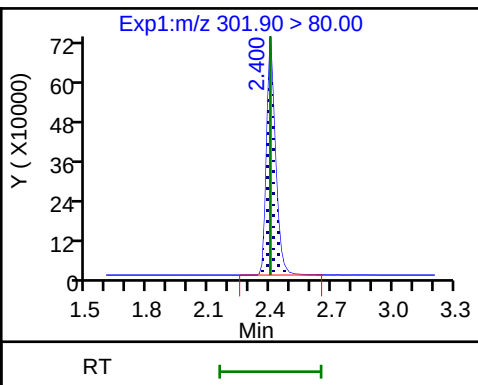
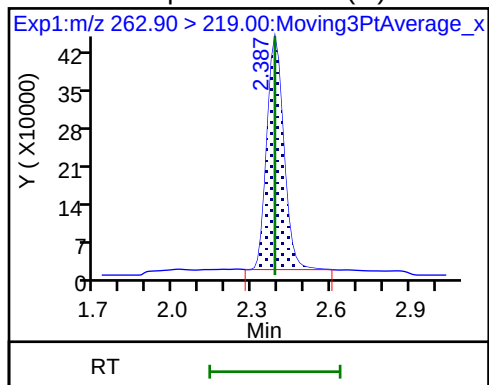
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

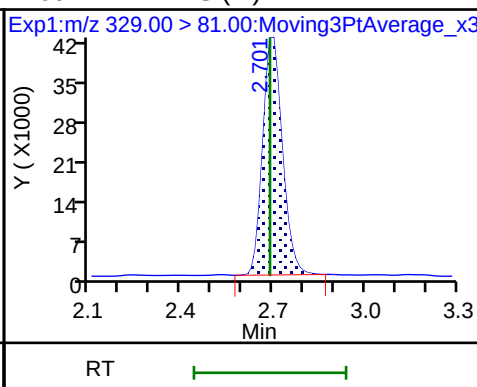
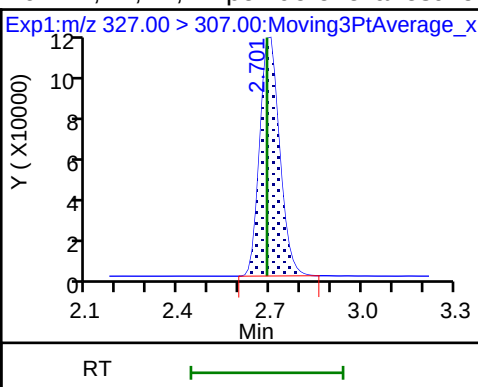
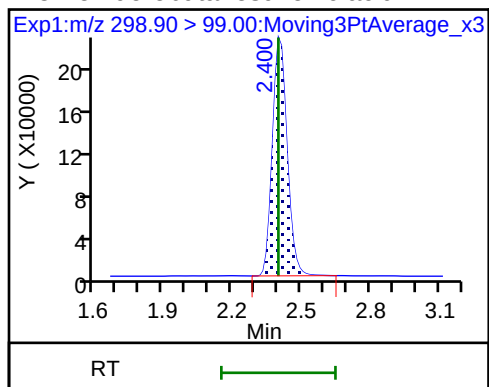
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

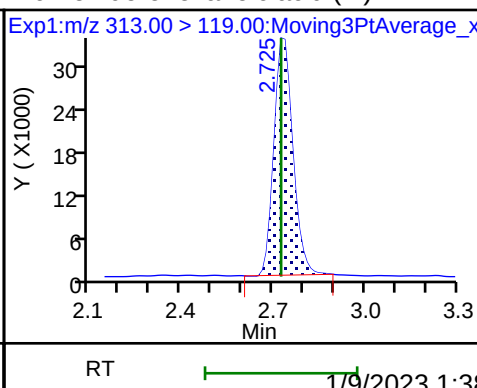
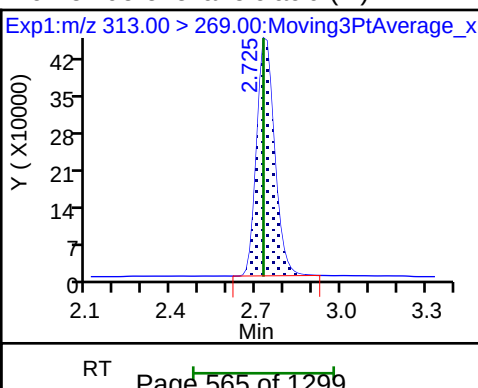
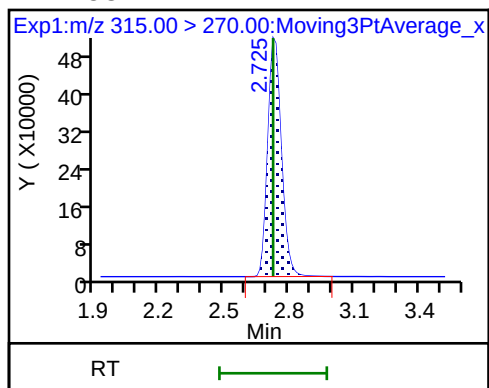
D 60 M2-4:2 FTS (M)

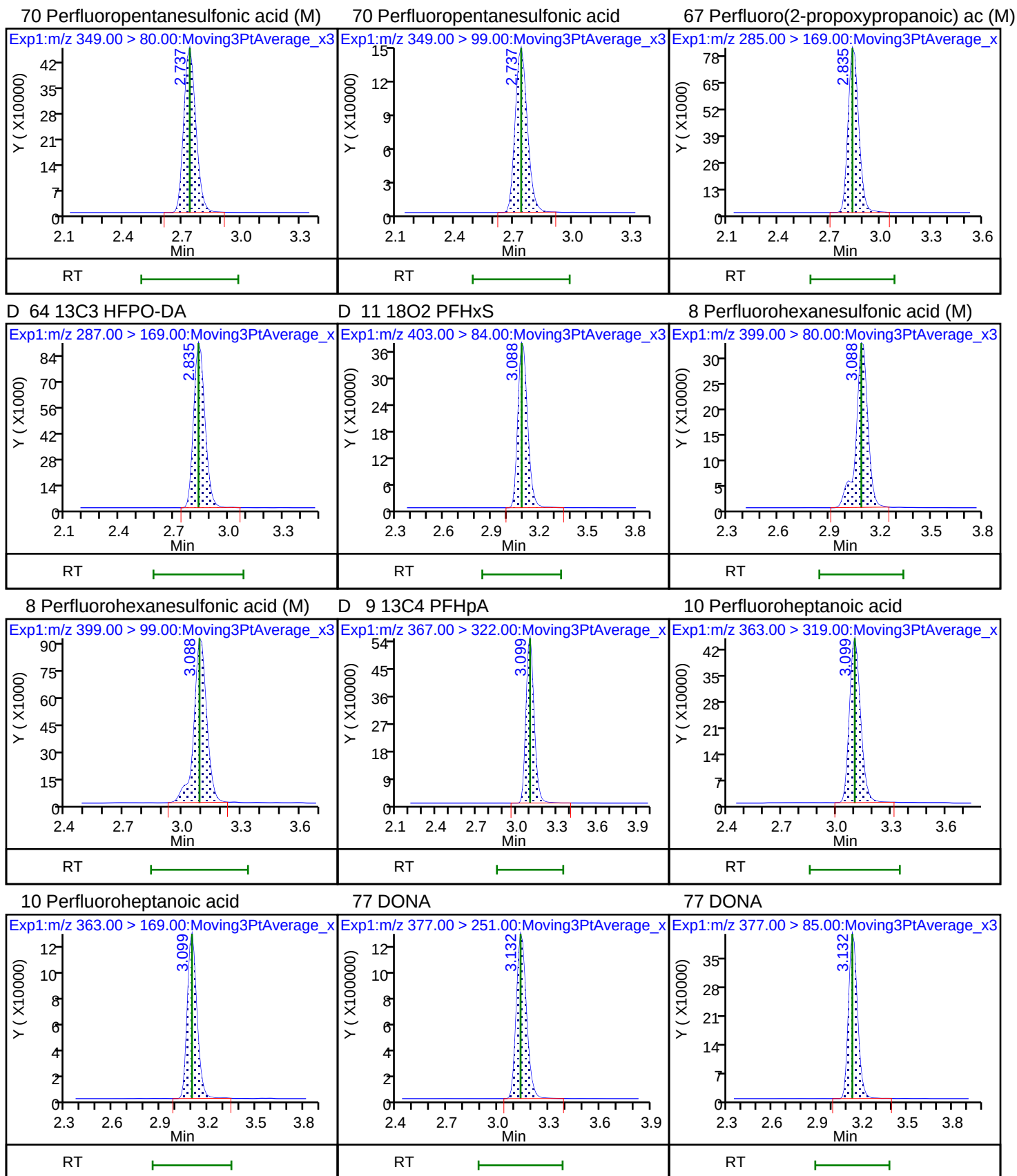


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

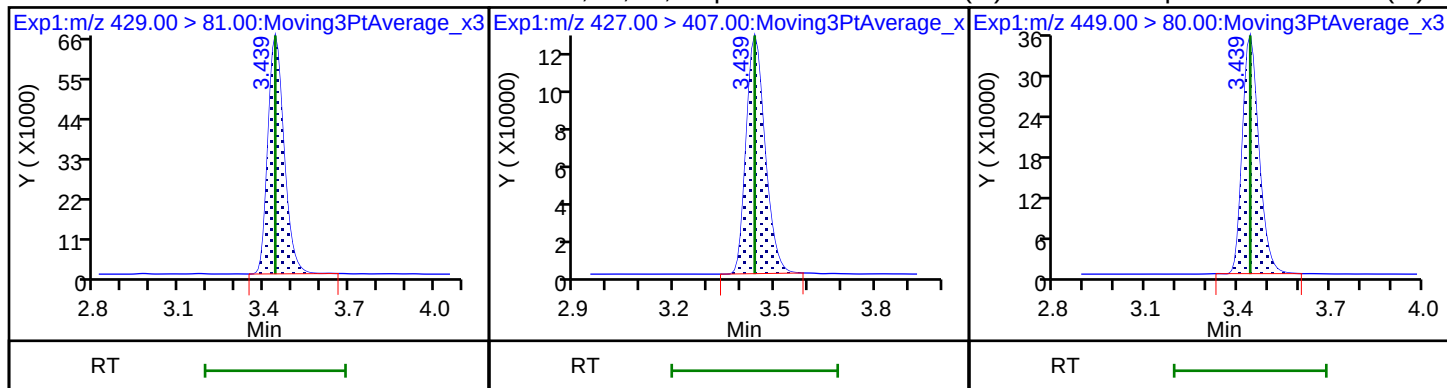
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

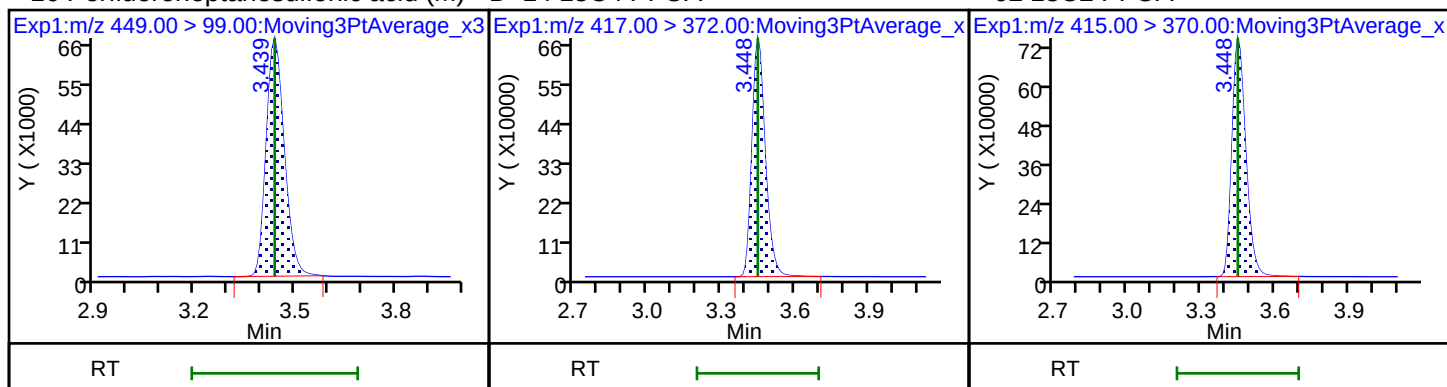
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

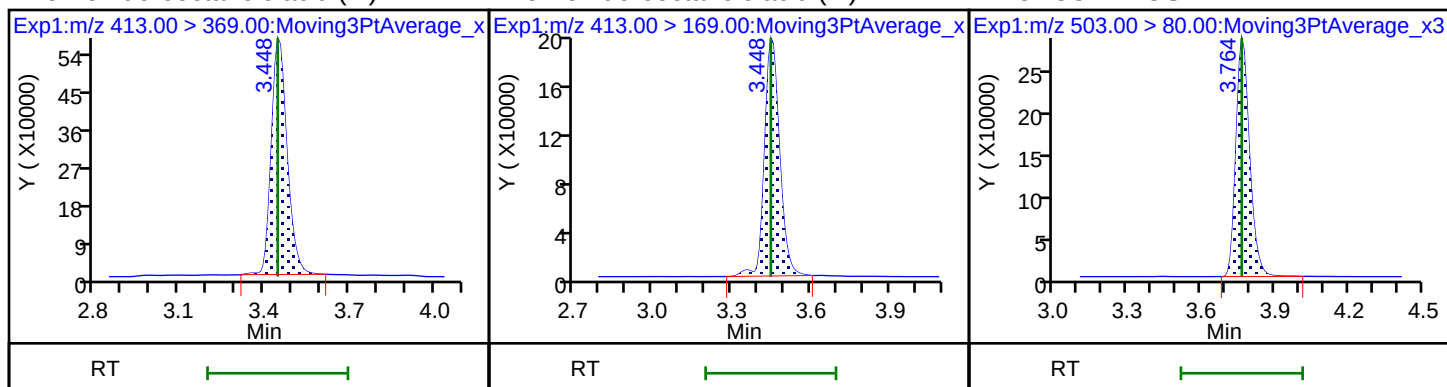
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

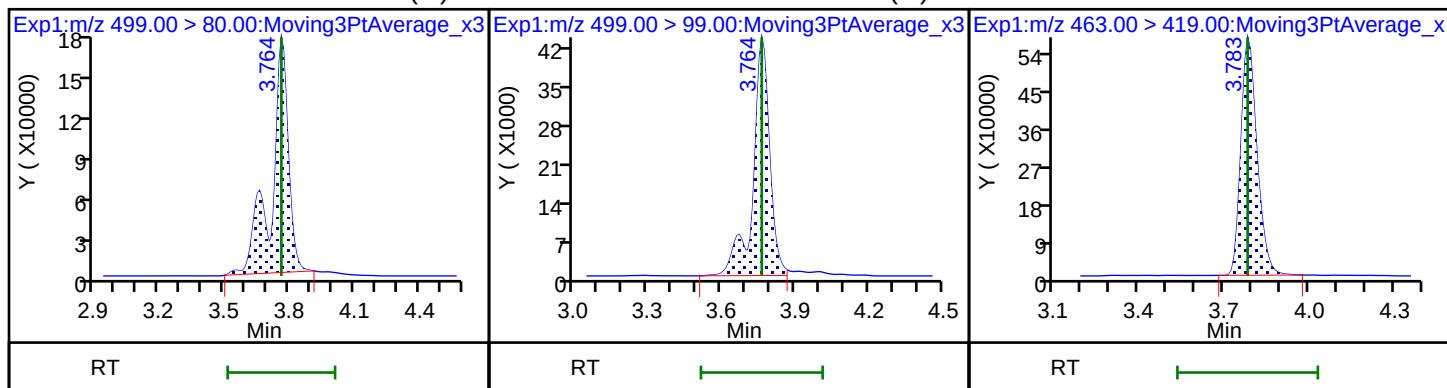
D 18 13C4 PFOS

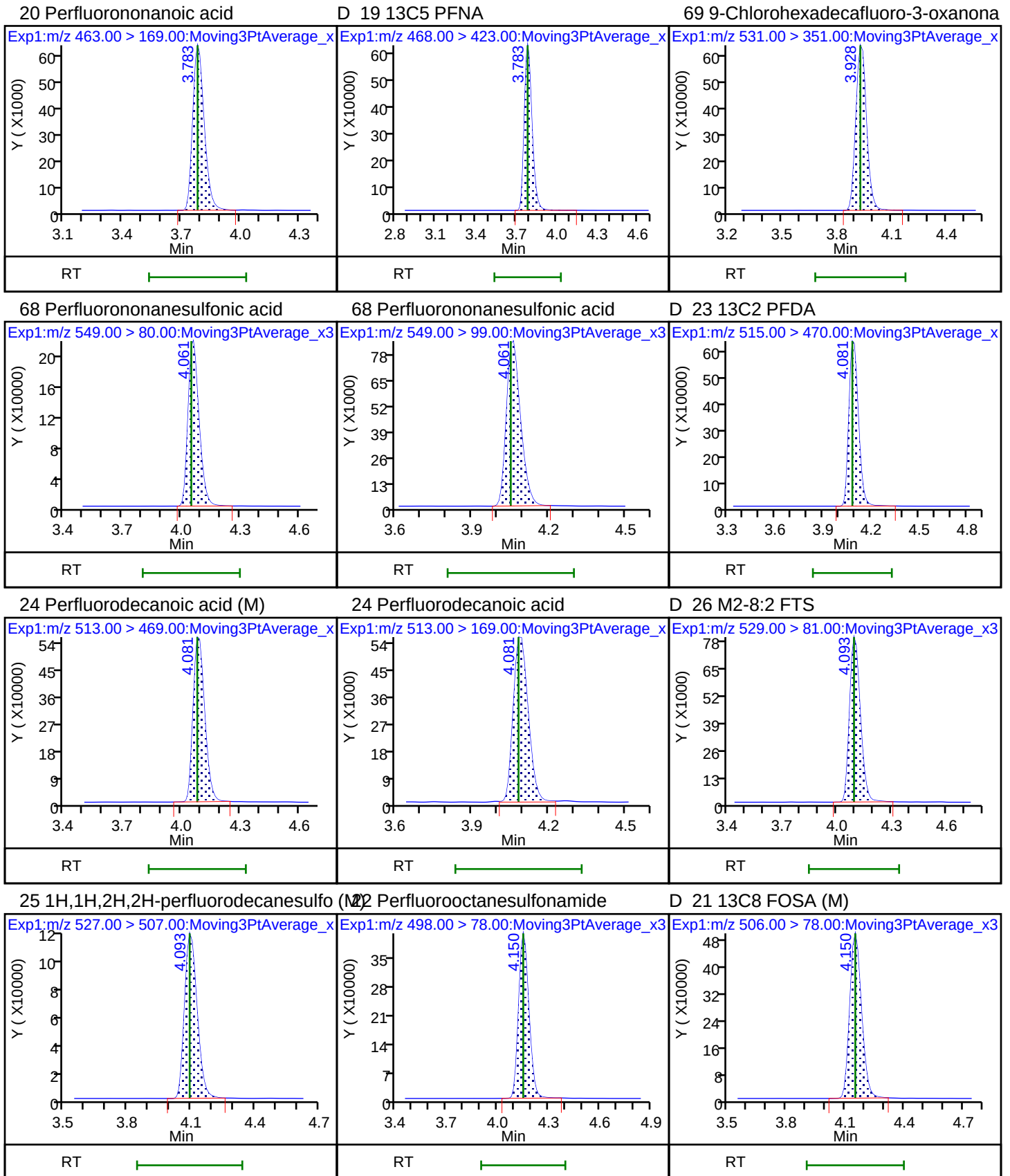


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

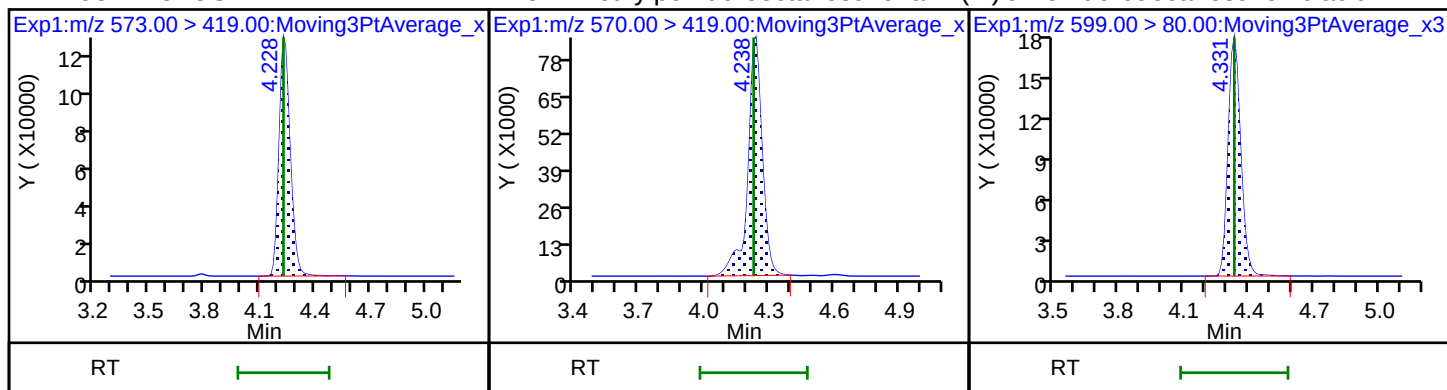
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

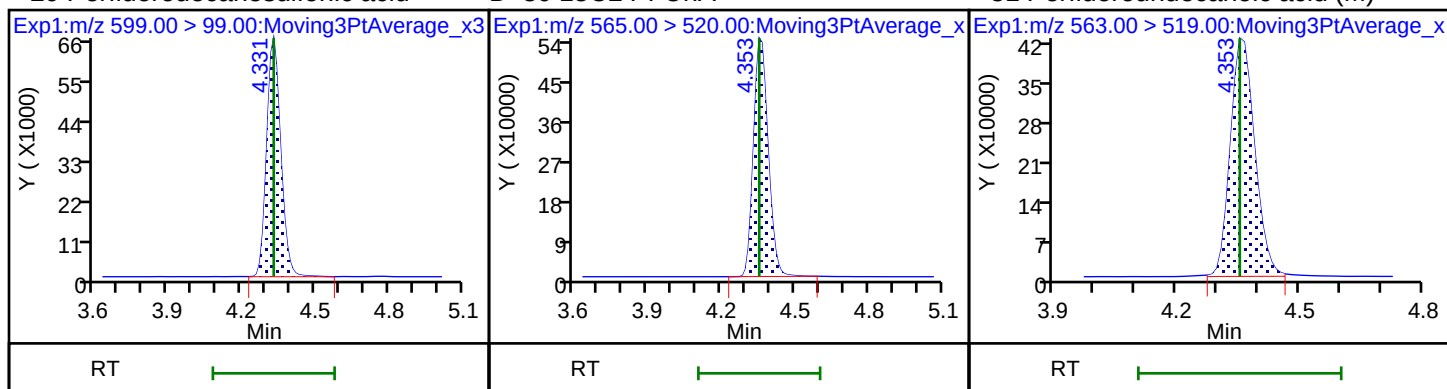
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

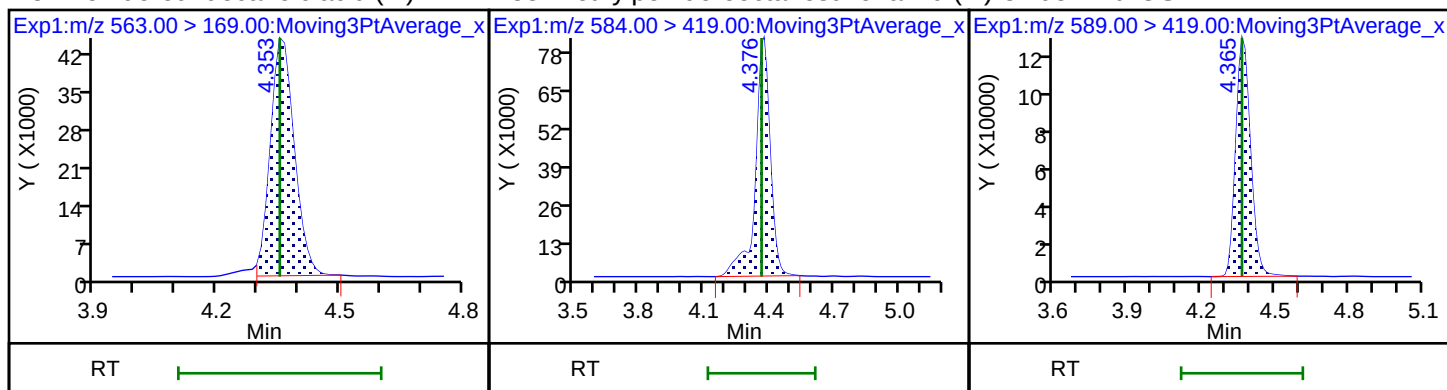
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

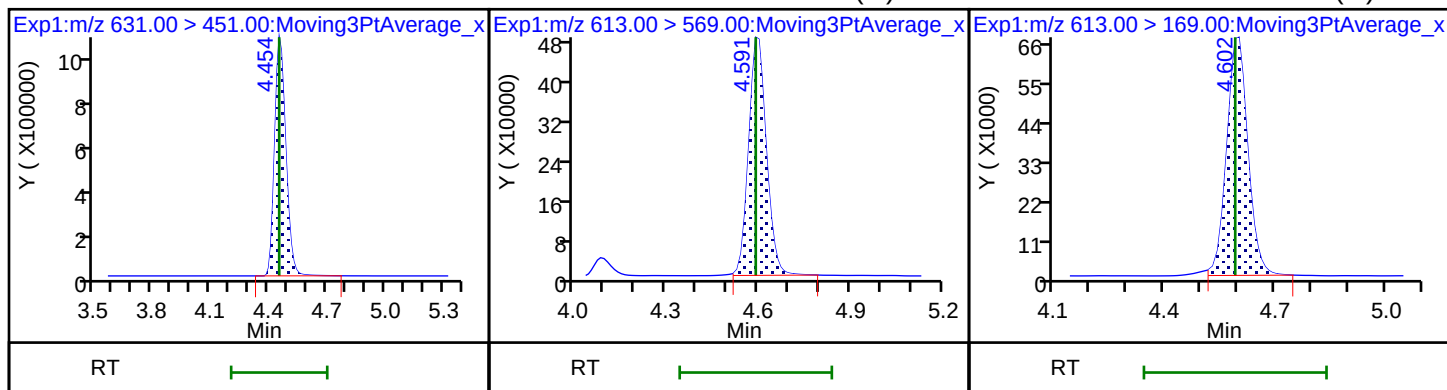
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

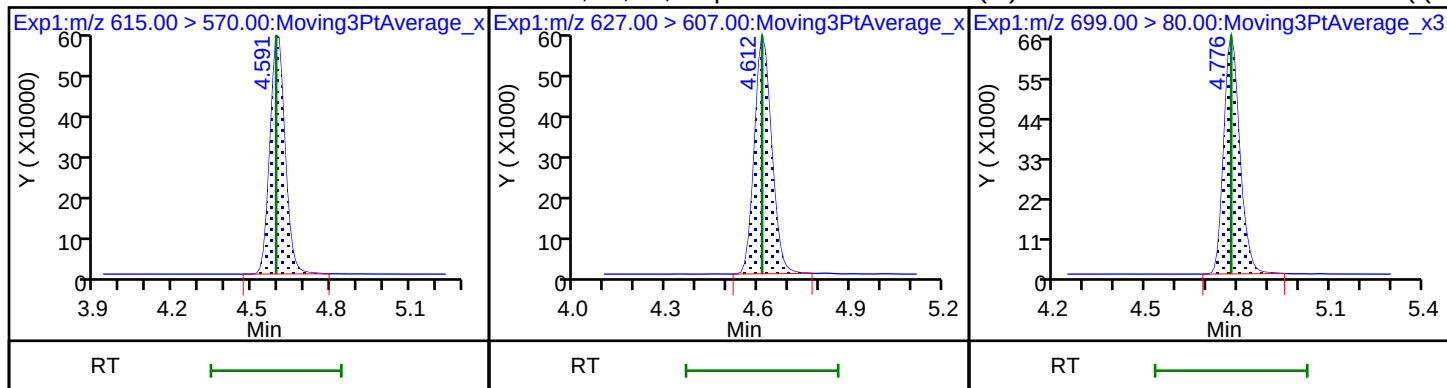
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

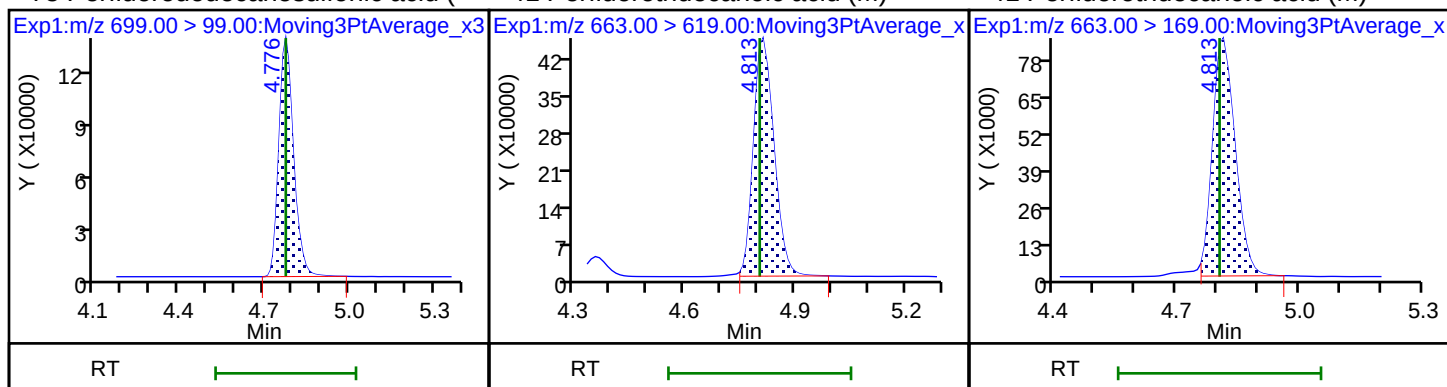
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

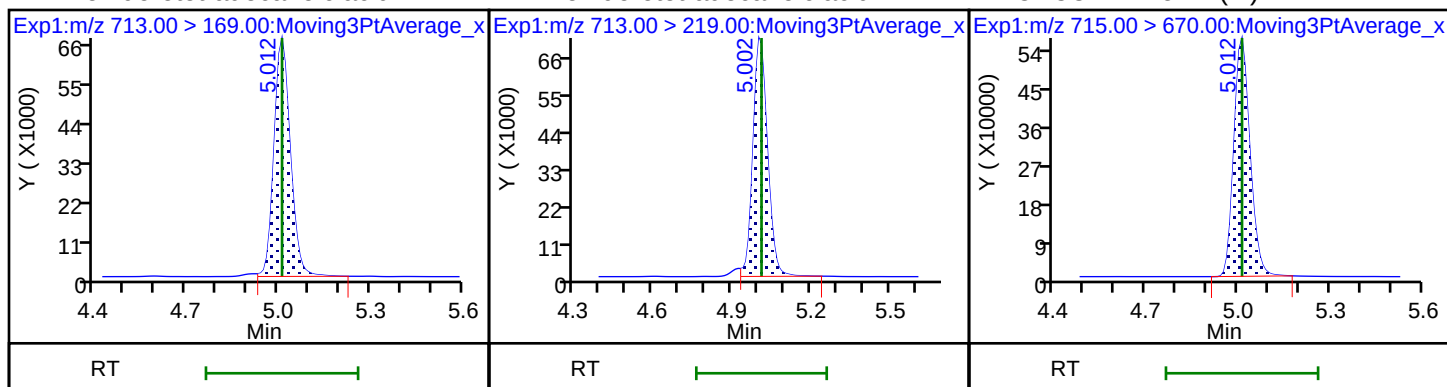
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

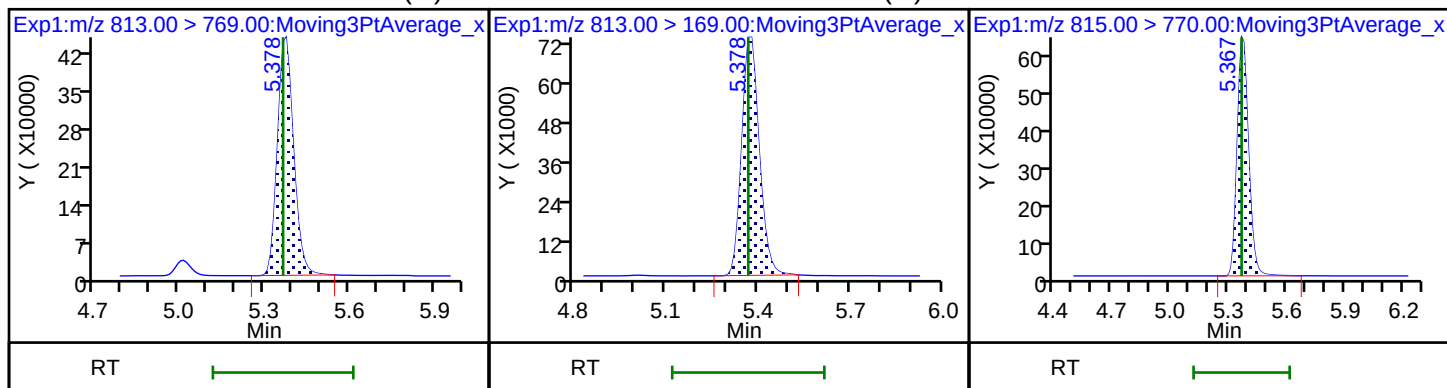
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)

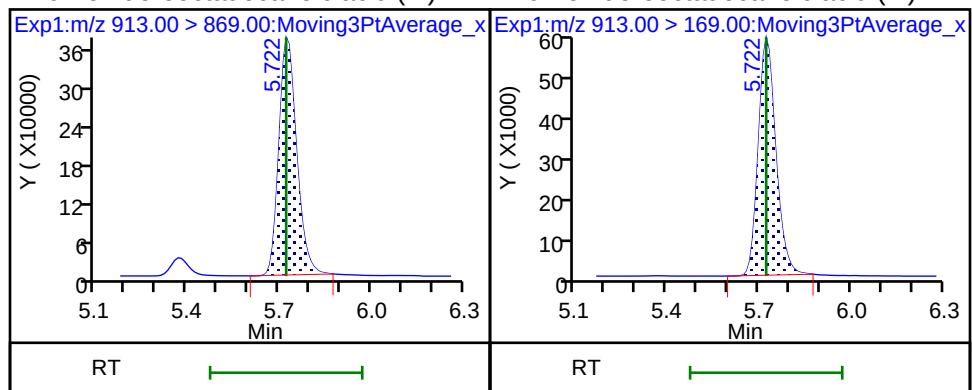
D 44 13C2 PFHxDA



Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d

46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

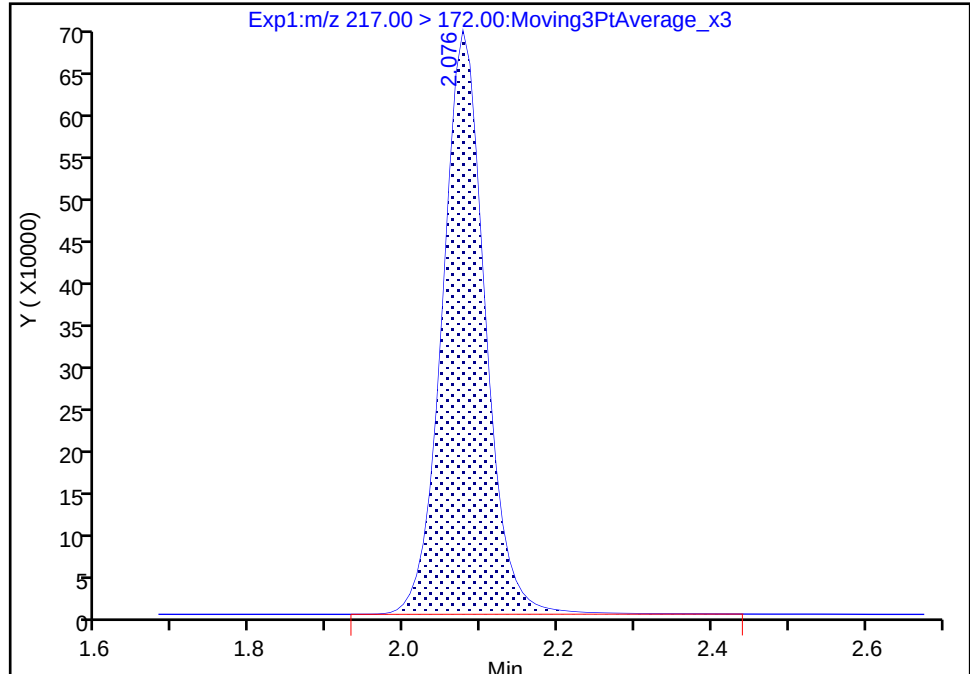
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

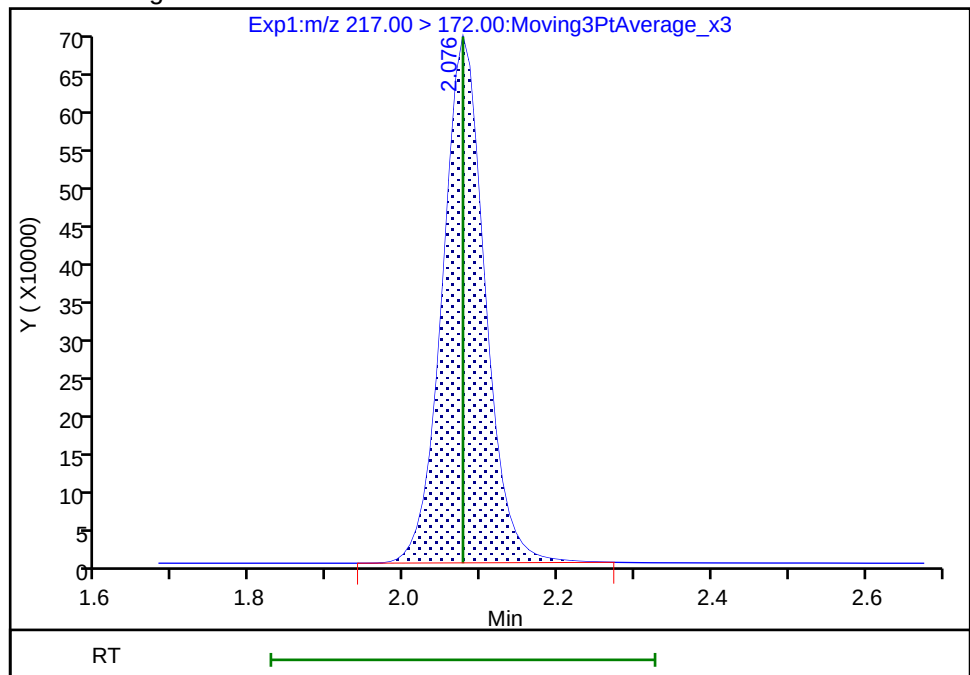
RT: 2.08
Area: 2683228
Amount: 1.030340
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2670376
Amount: 1.025405
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

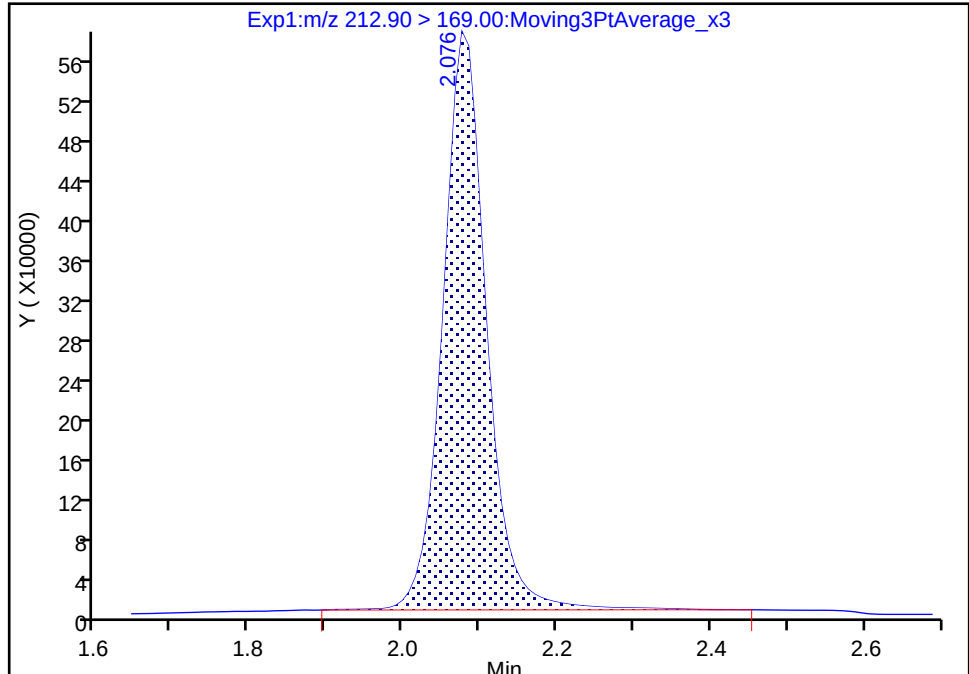
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

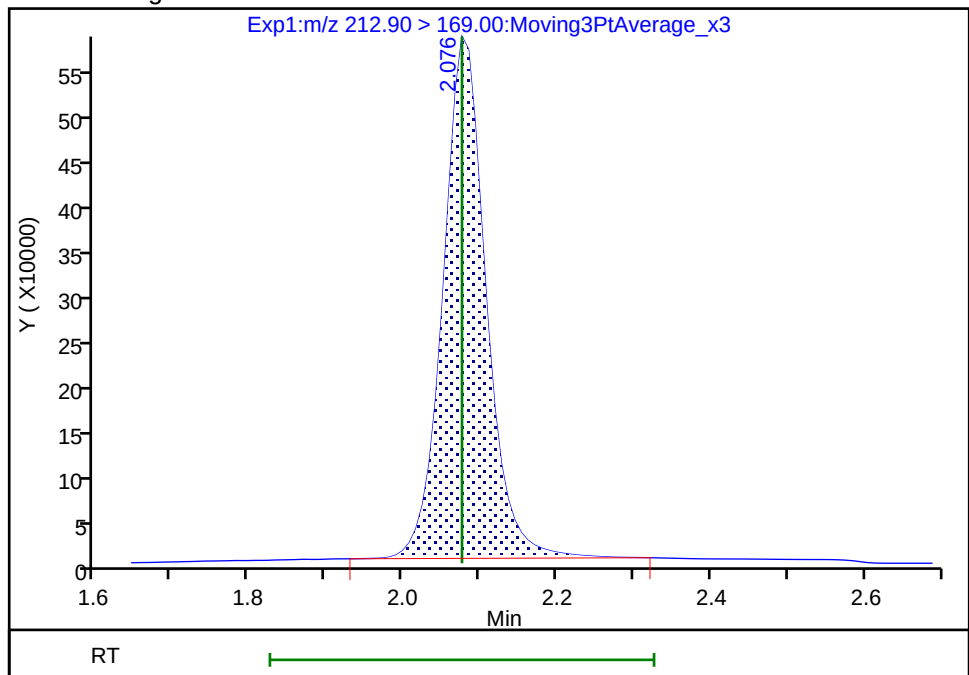
RT: 2.08
Area: 2274782
Amount: 1.032610
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2244563
Amount: 1.018892
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

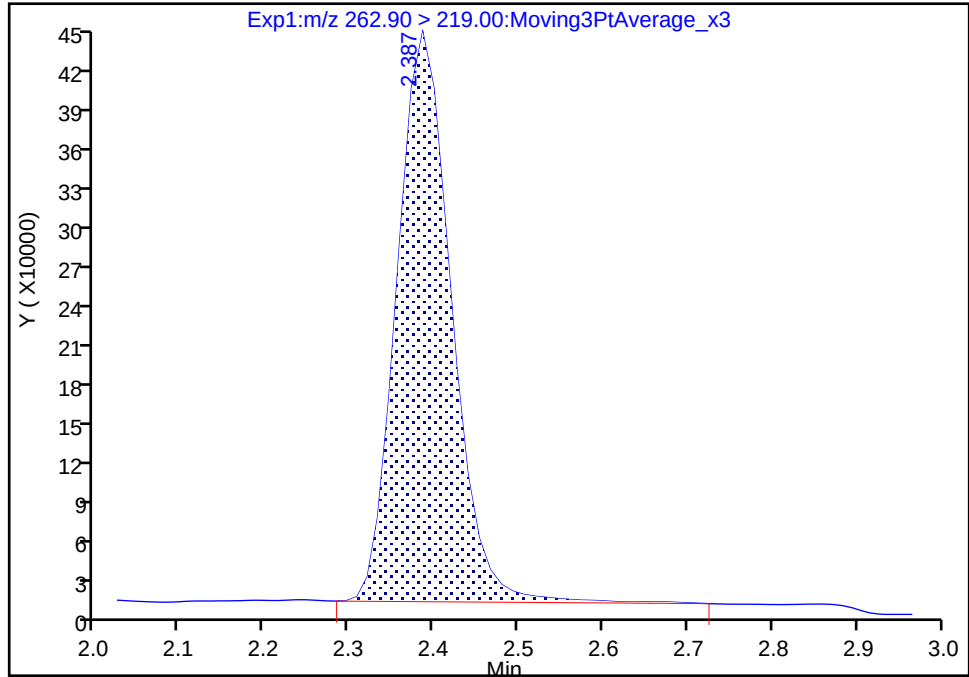
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

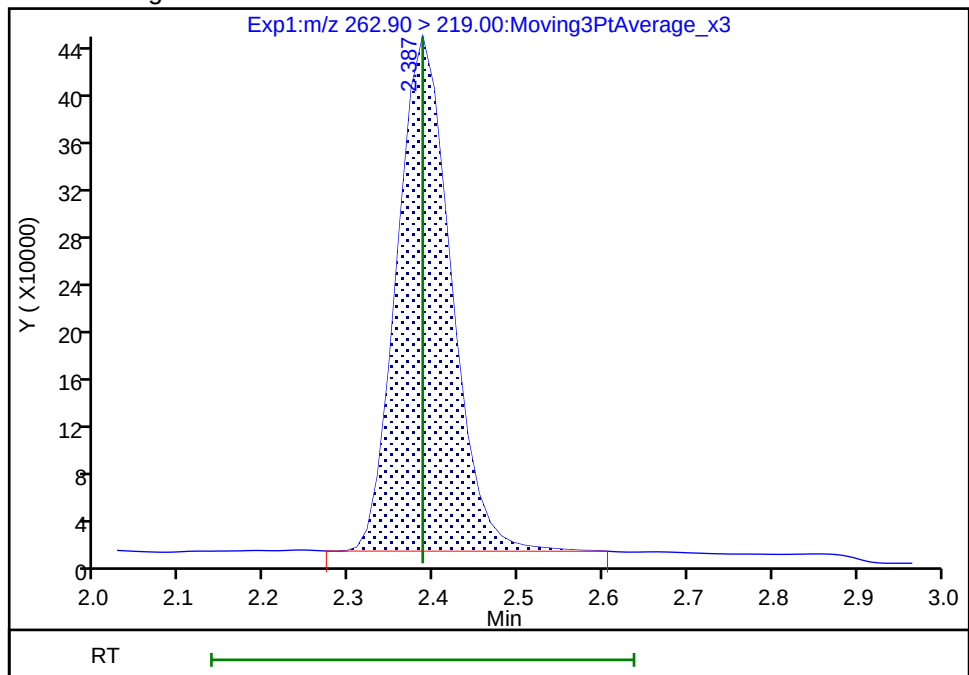
RT: 2.39
Area: 1952031
Amount: 1.086518
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1931131
Amount: 1.074885
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

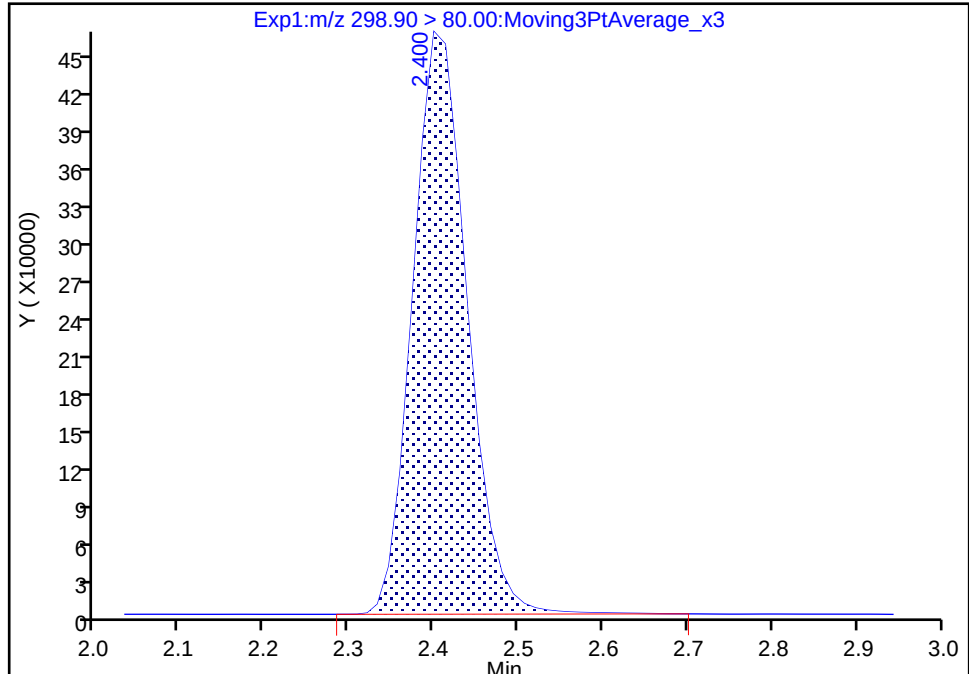
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

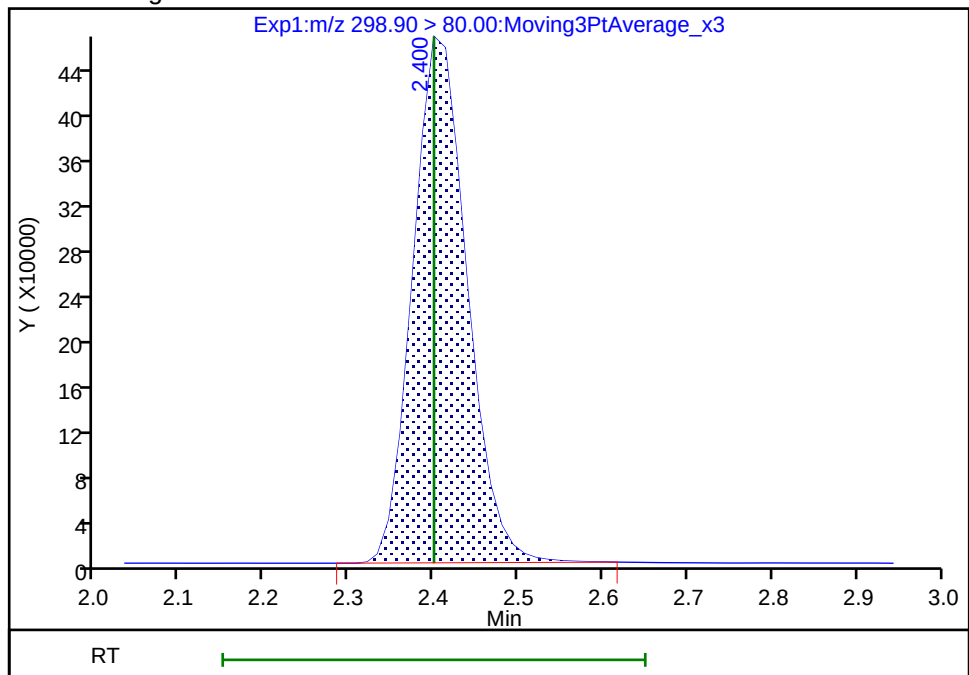
RT: 2.40
Area: 2078717
Amount: 0.981767
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2070709
Amount: 0.977985
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d

Injection Date: 18-Nov-2022 15:27:08

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: lc812tech

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)

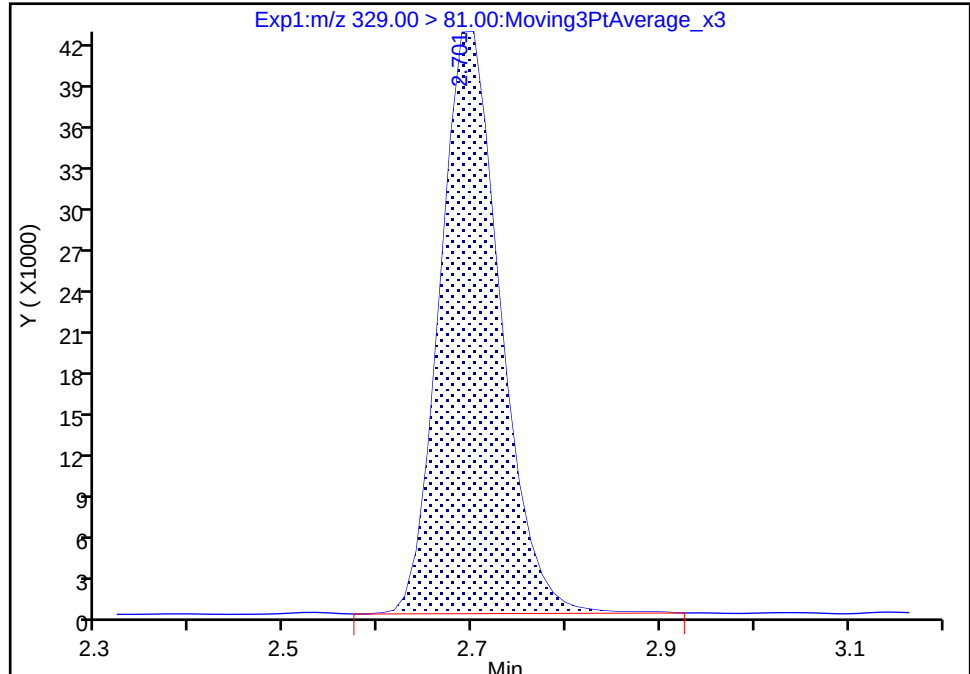
Detector: EXP1

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

Signal: 1

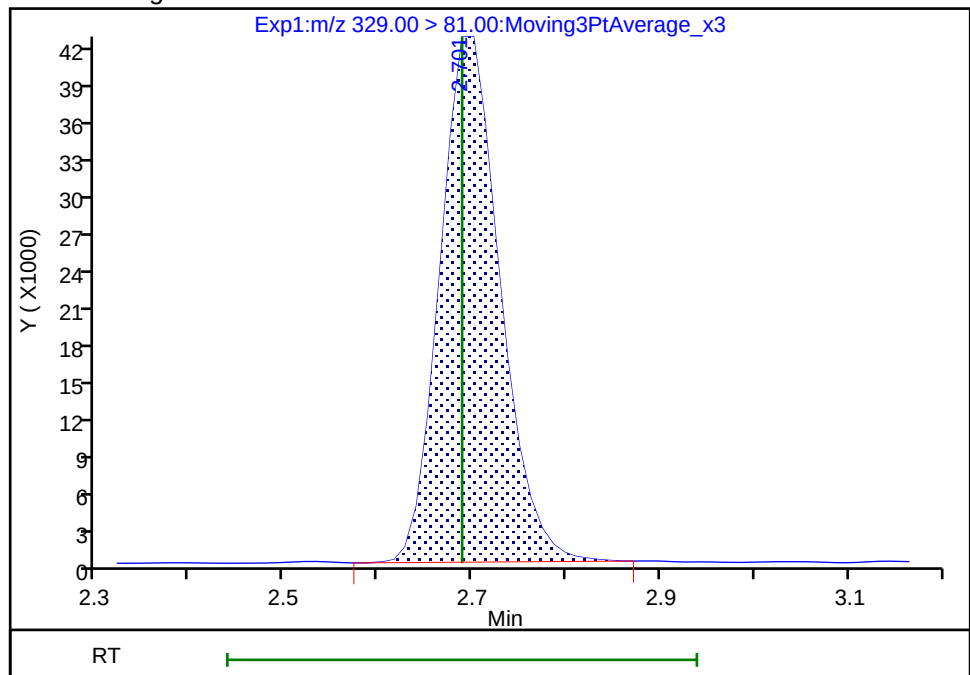
RT: 2.70
Area: 187018
Amount: 0.982209
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 186032
Amount: 0.977030
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

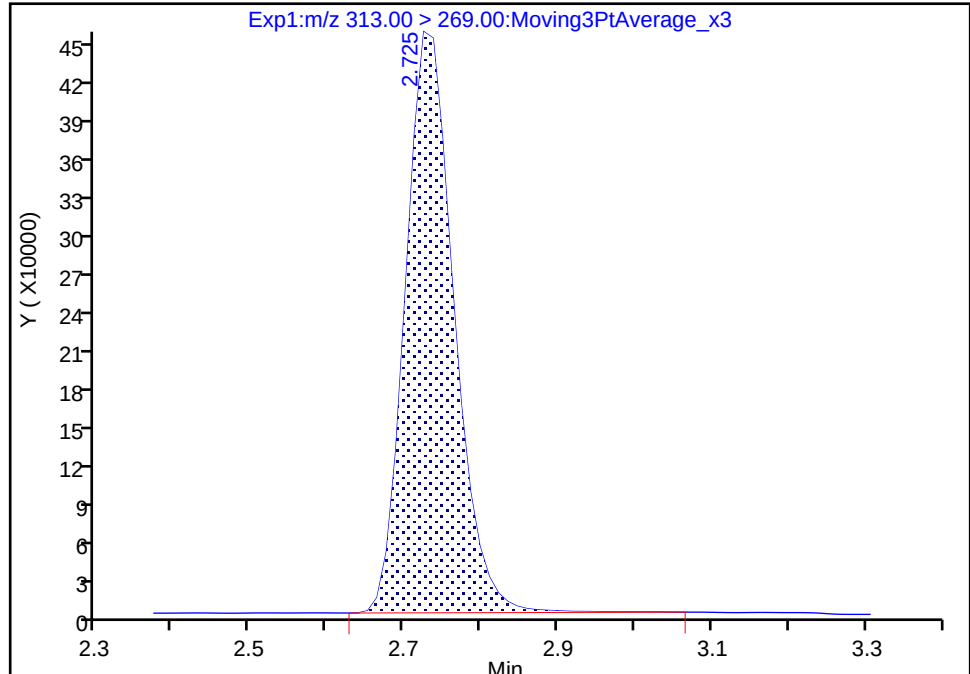
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

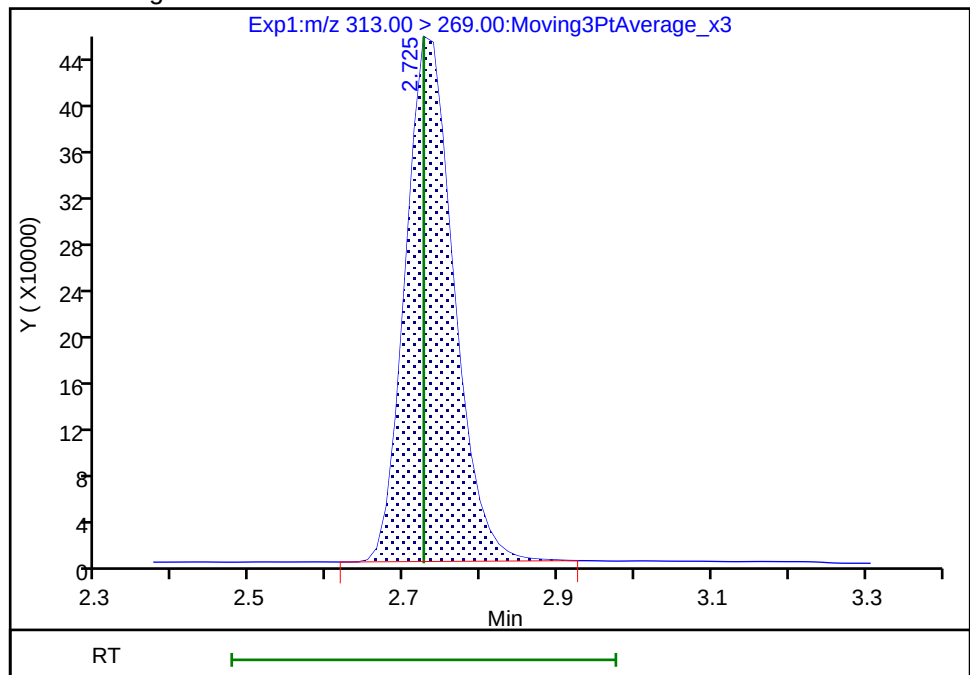
RT: 2.73
Area: 1996563
Amount: 1.018646
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1986916
Amount: 1.013724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

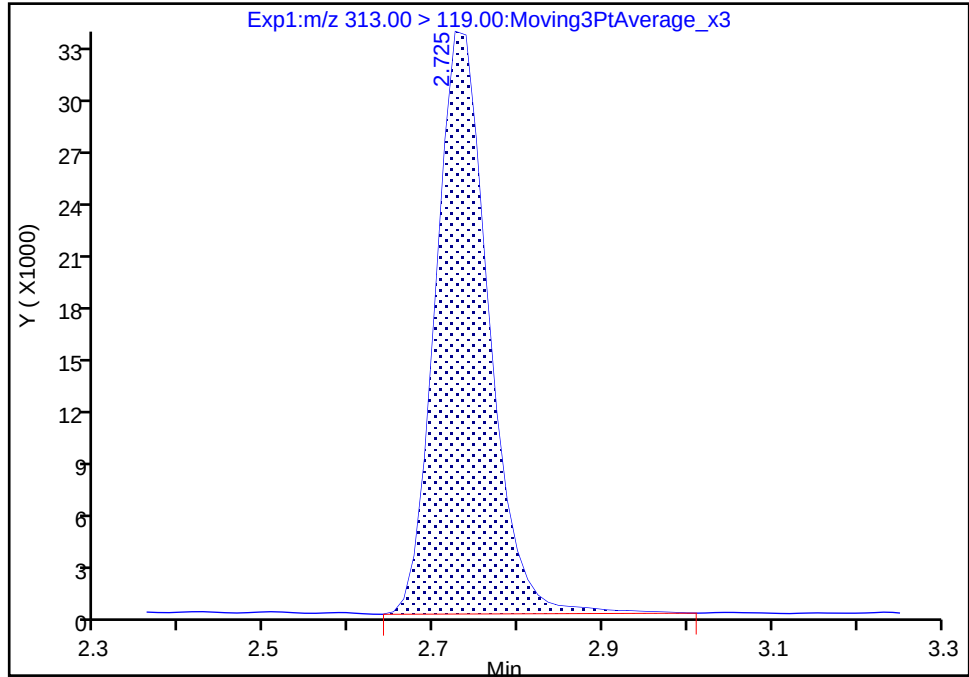
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

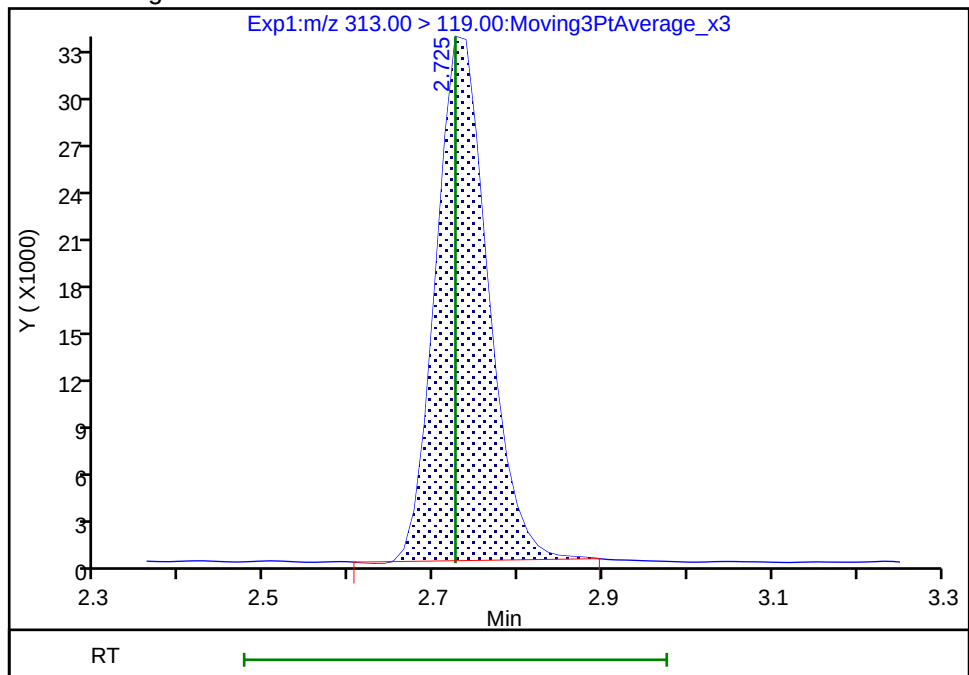
RT: 2.73
Area: 144299
Amount: 1.018646
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 140975
Amount: 1.013724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

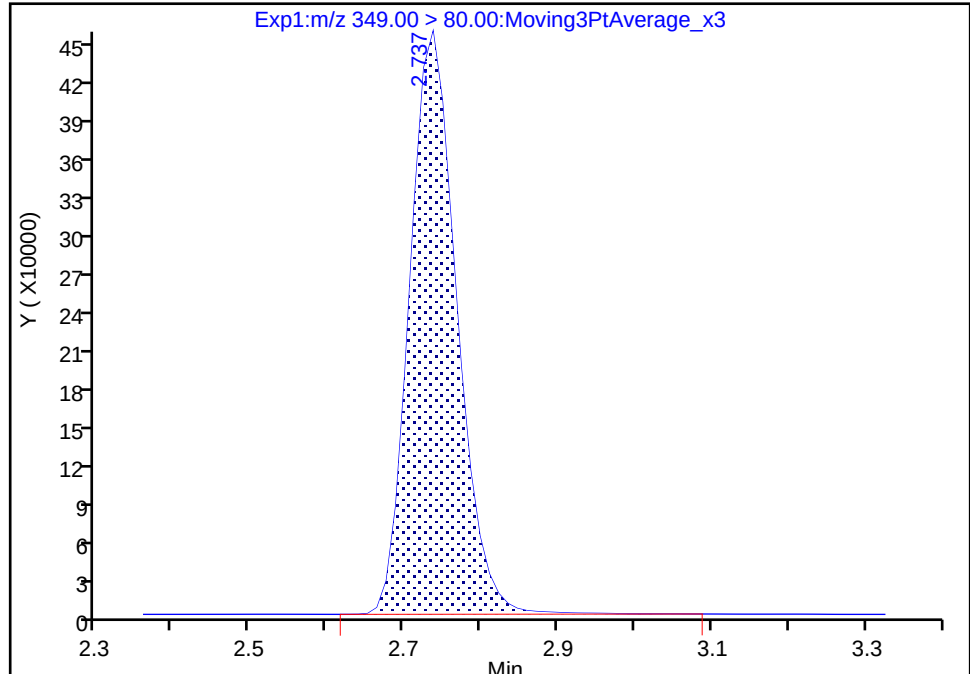
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

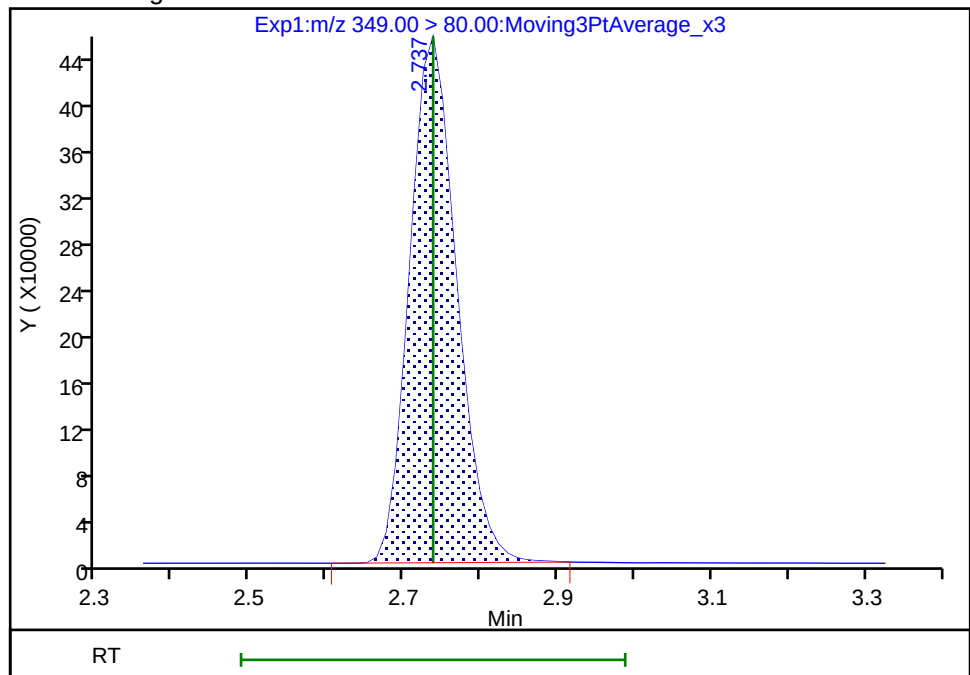
RT: 2.74
Area: 1936279
Amount: 1.104646
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1925334
Amount: 1.098402
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

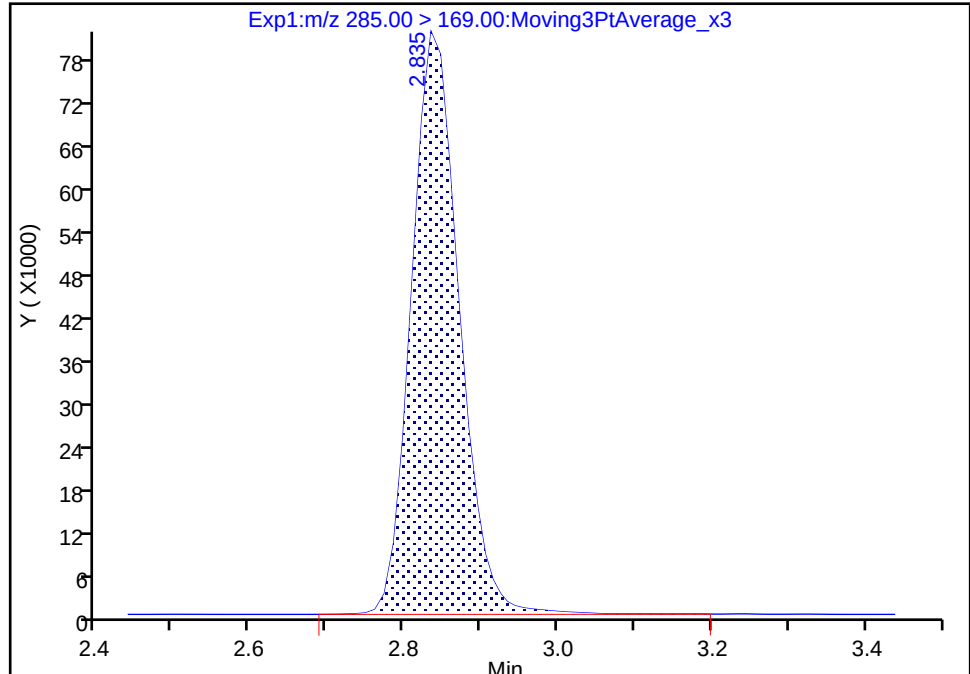
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

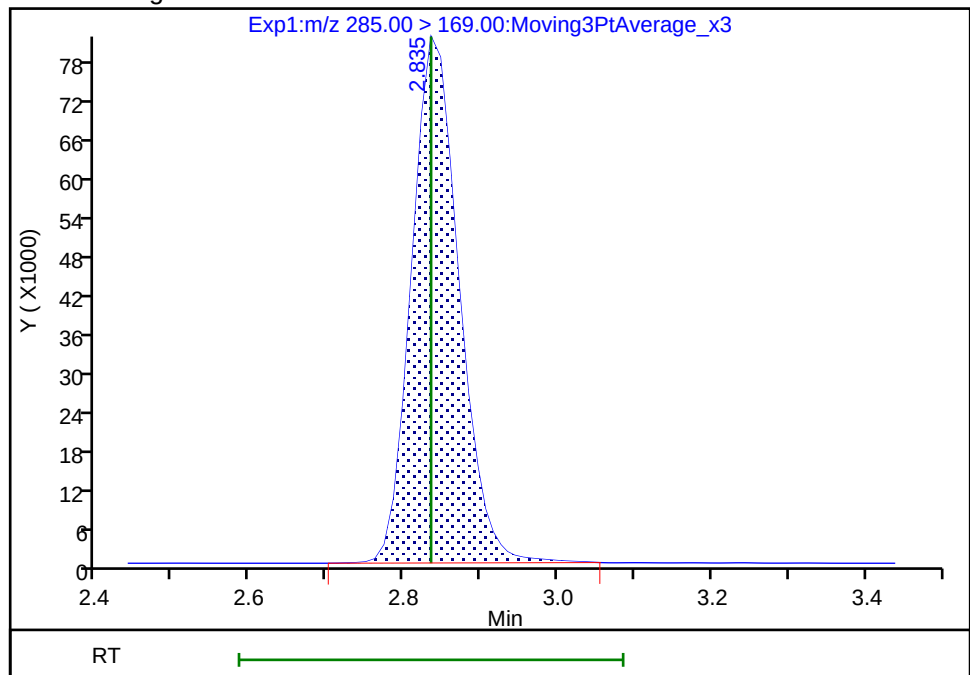
RT: 2.83
Area: 349656
Amount: 1.072576
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 348107
Amount: 1.067825
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

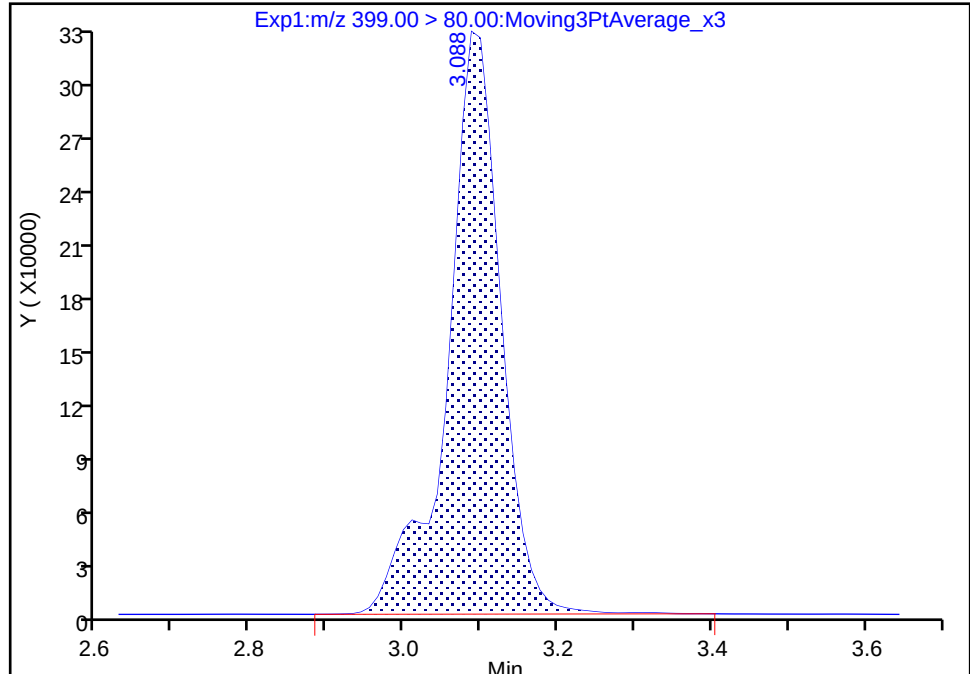
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

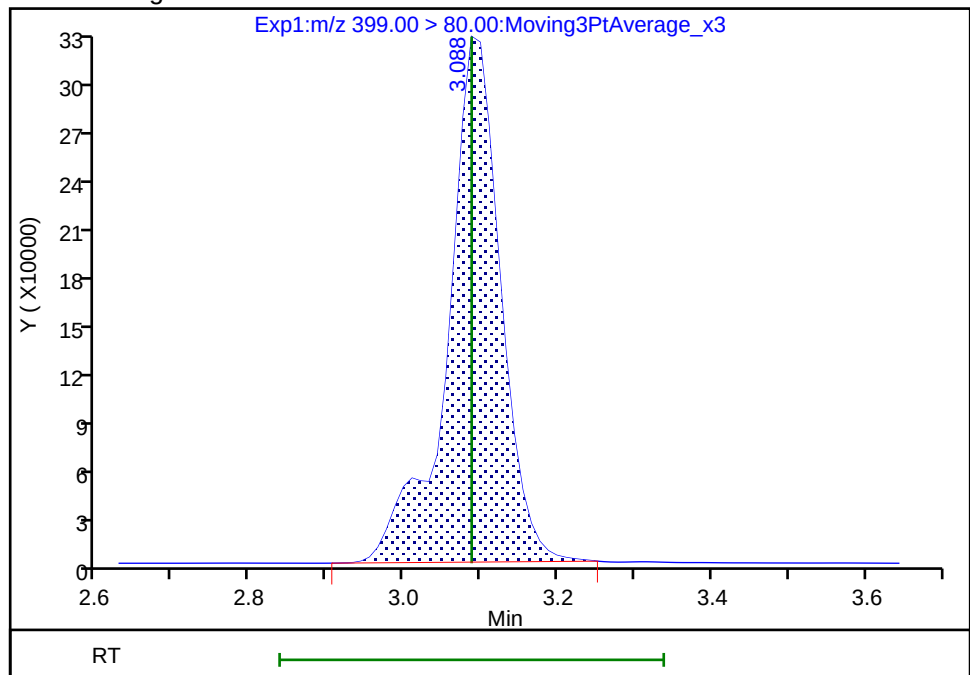
RT: 3.09
Area: 1580261
Amount: 1.066710
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1565688
Amount: 1.056873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

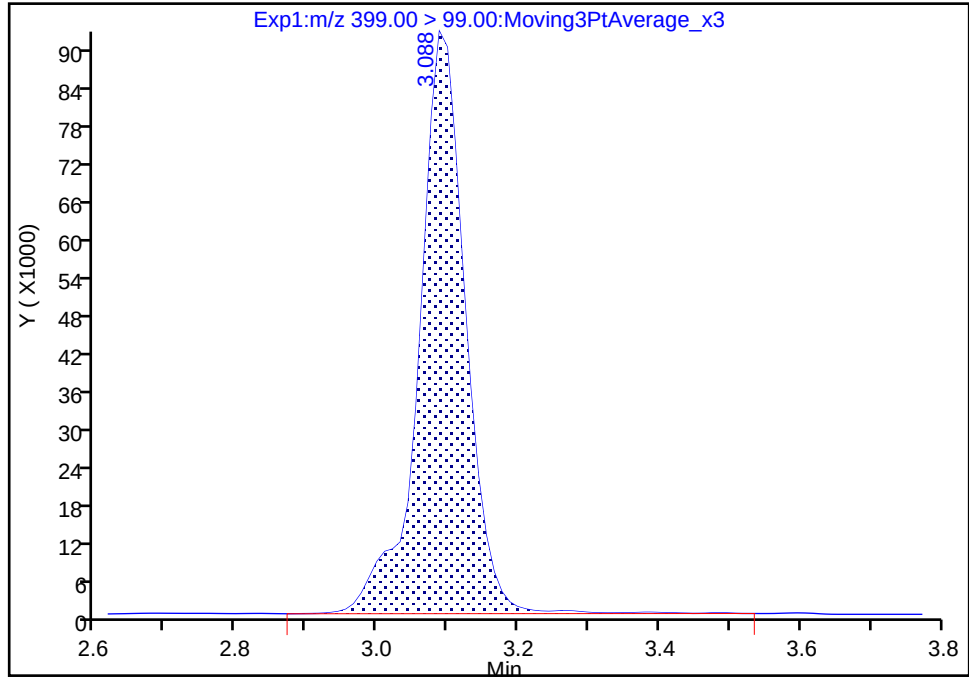
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

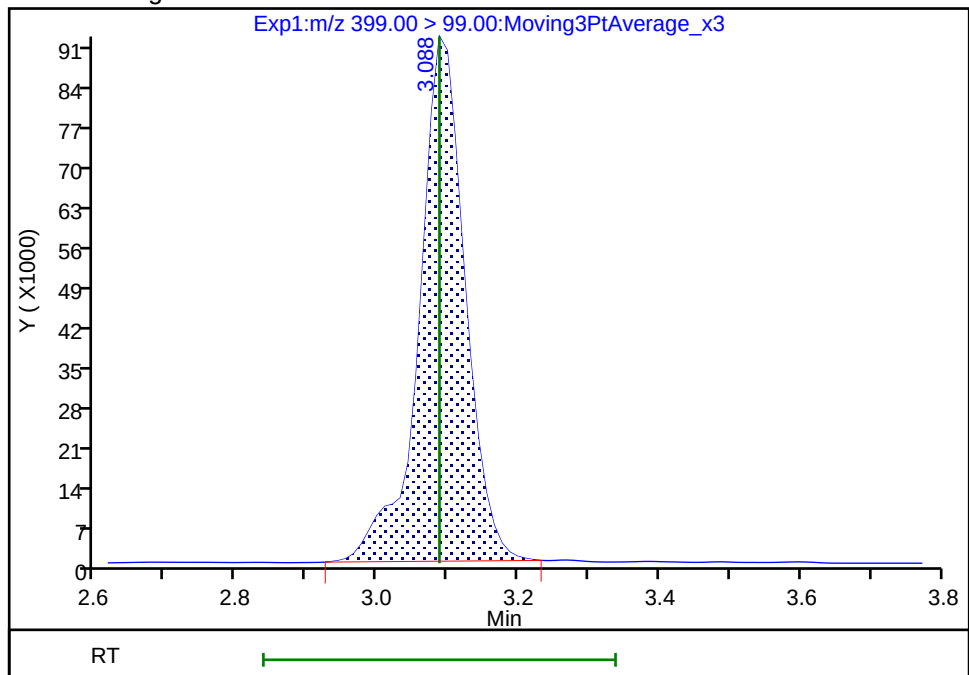
RT: 3.09
Area: 423789
Amount: 1.066710
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 416511
Amount: 1.056873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

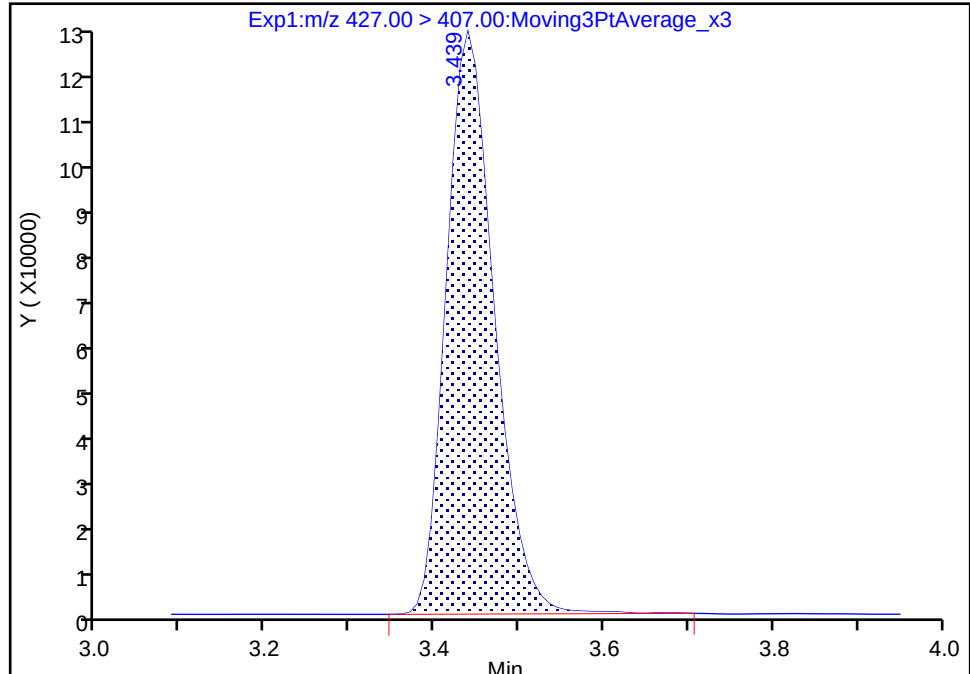
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

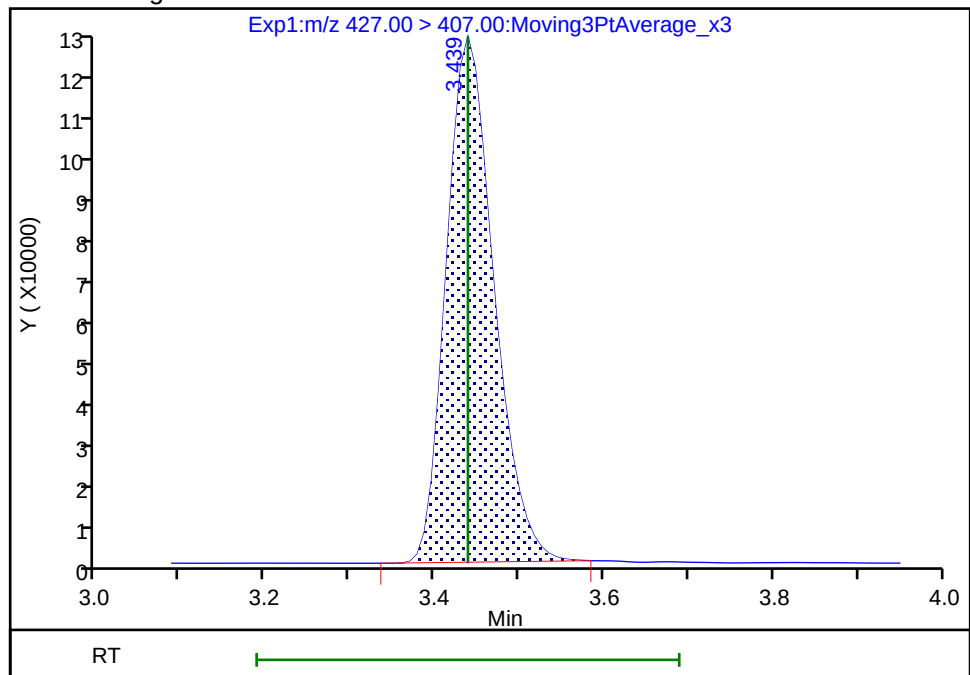
RT: 3.44
Area: 502234
Amount: 1.072151
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 497227
Amount: 1.061344
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

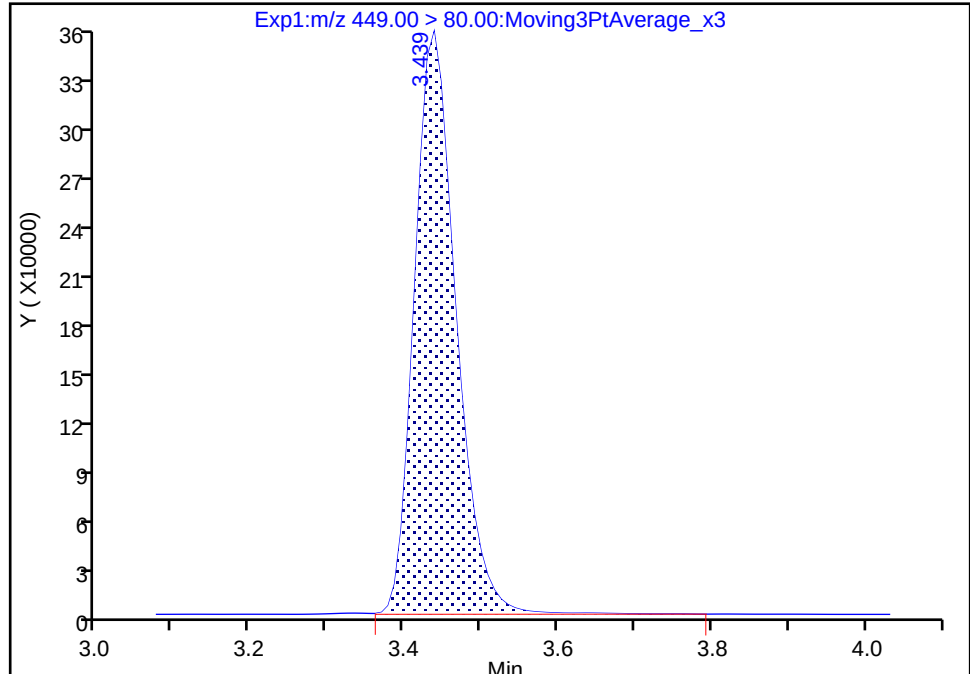
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

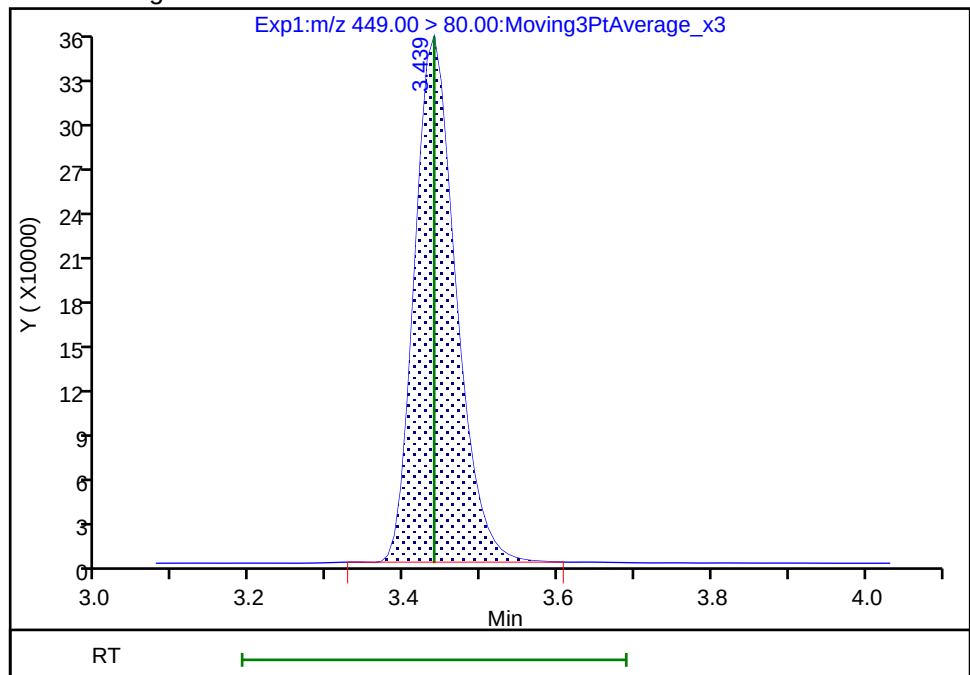
RT: 3.44
Area: 1318008
Amount: 1.043678
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1304864
Amount: 1.033270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

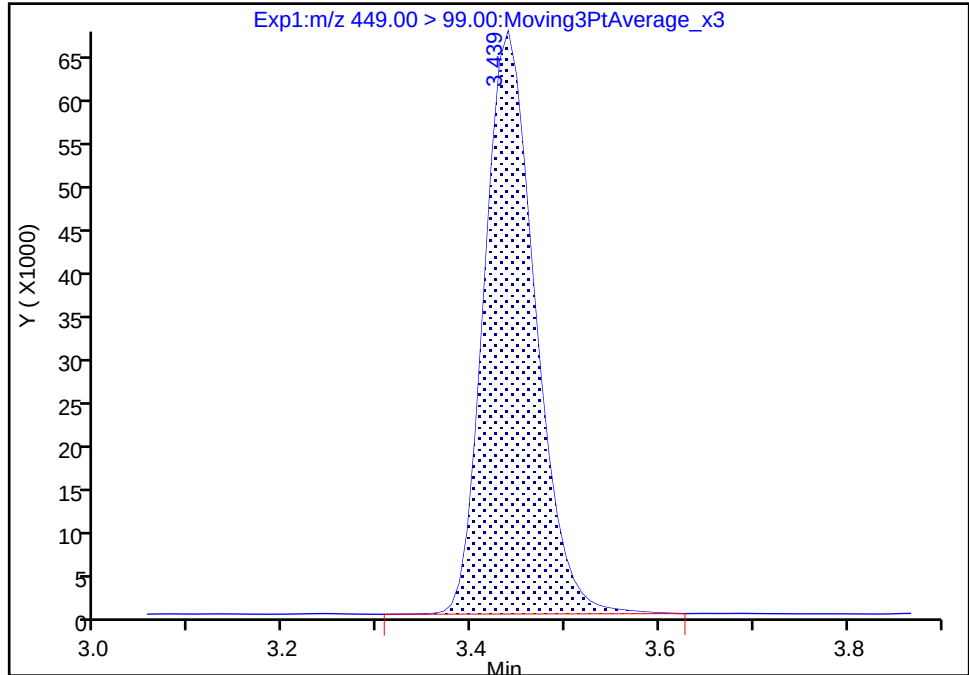
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

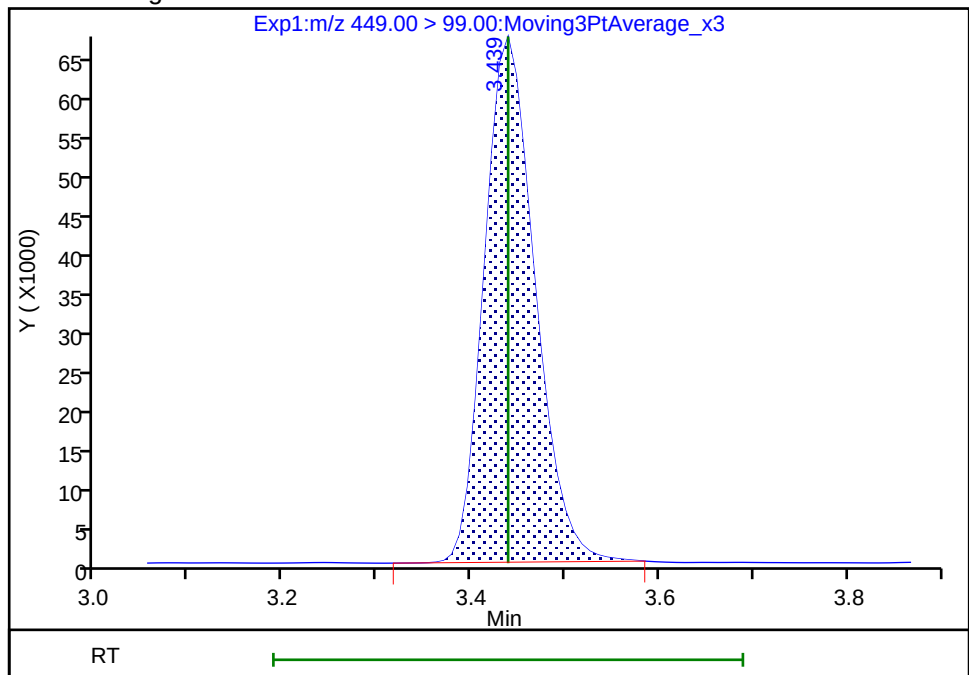
RT: 3.44
Area: 253988
Amount: 1.043678
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 252176
Amount: 1.033270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

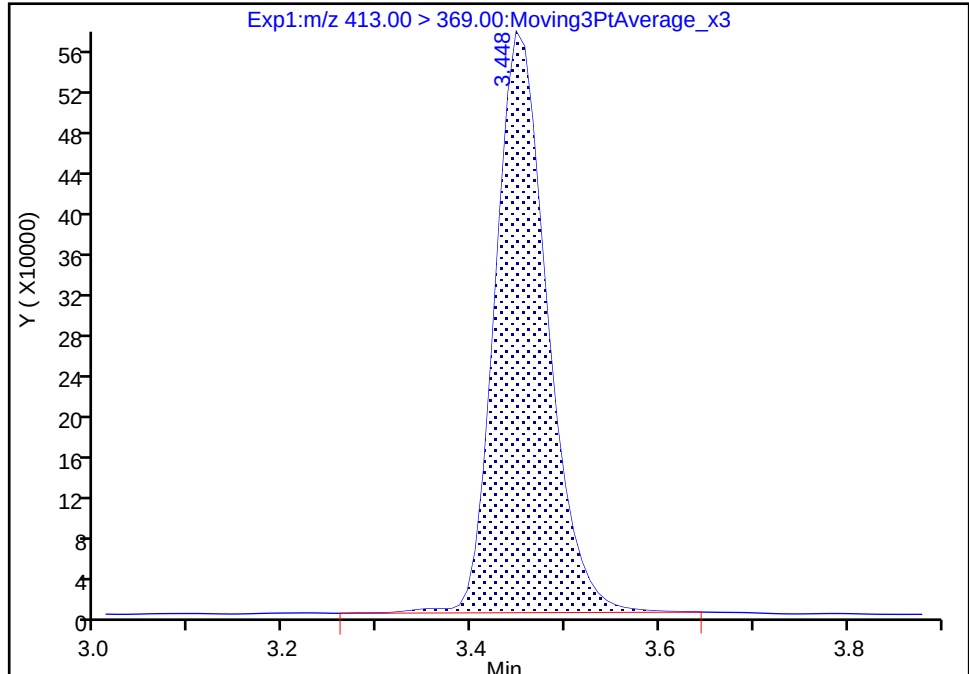
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

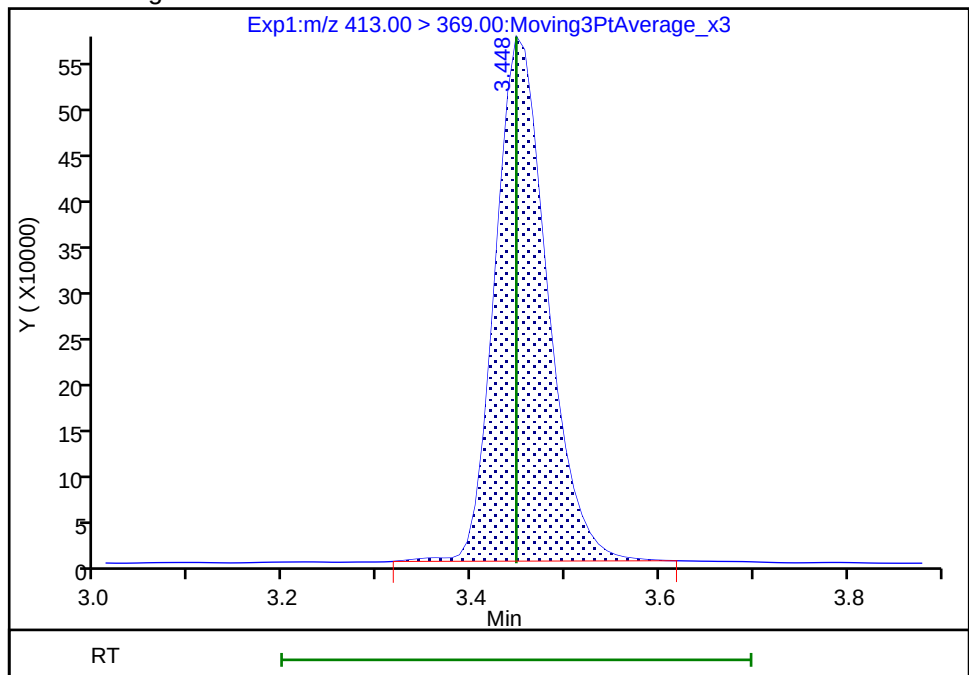
RT: 3.45
Area: 2210155
Amount: 1.028931
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 2197145
Amount: 1.022875
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

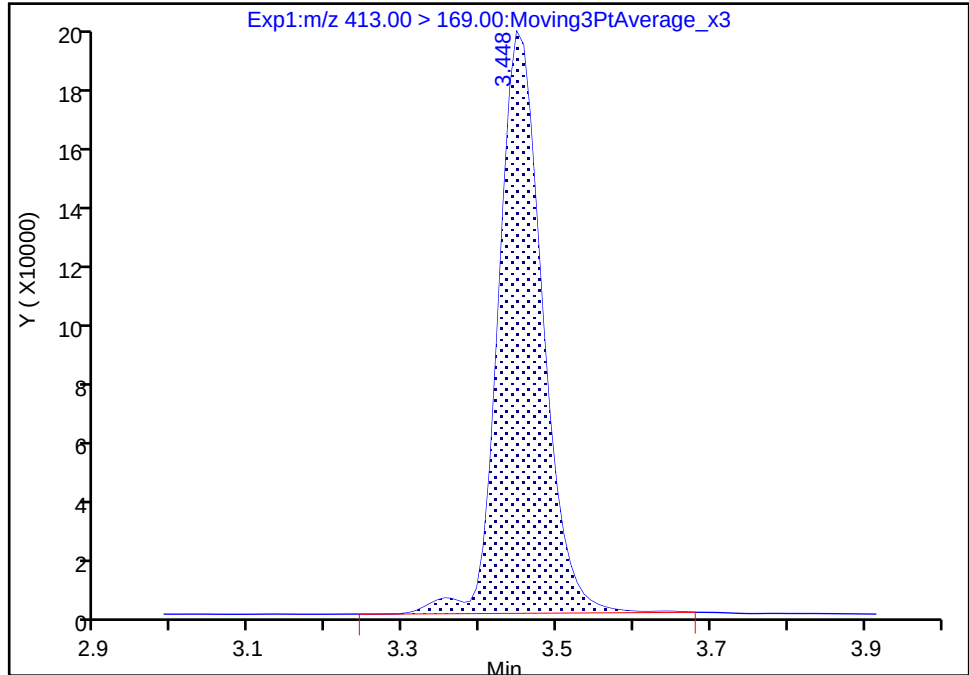
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

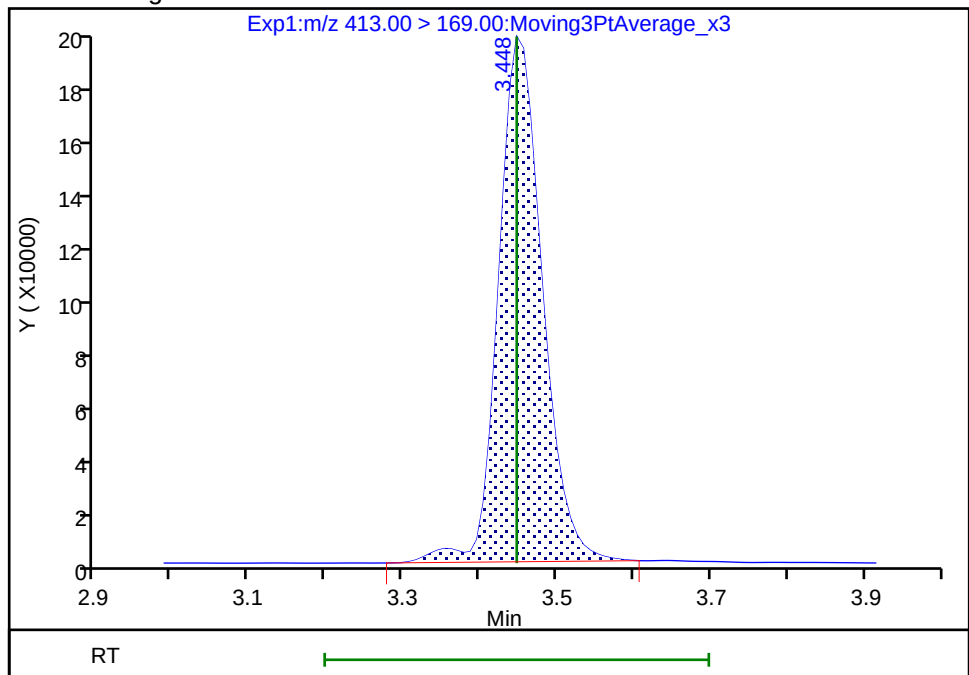
RT: 3.45
Area: 778853
Amount: 1.028931
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 773803
Amount: 1.022875
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

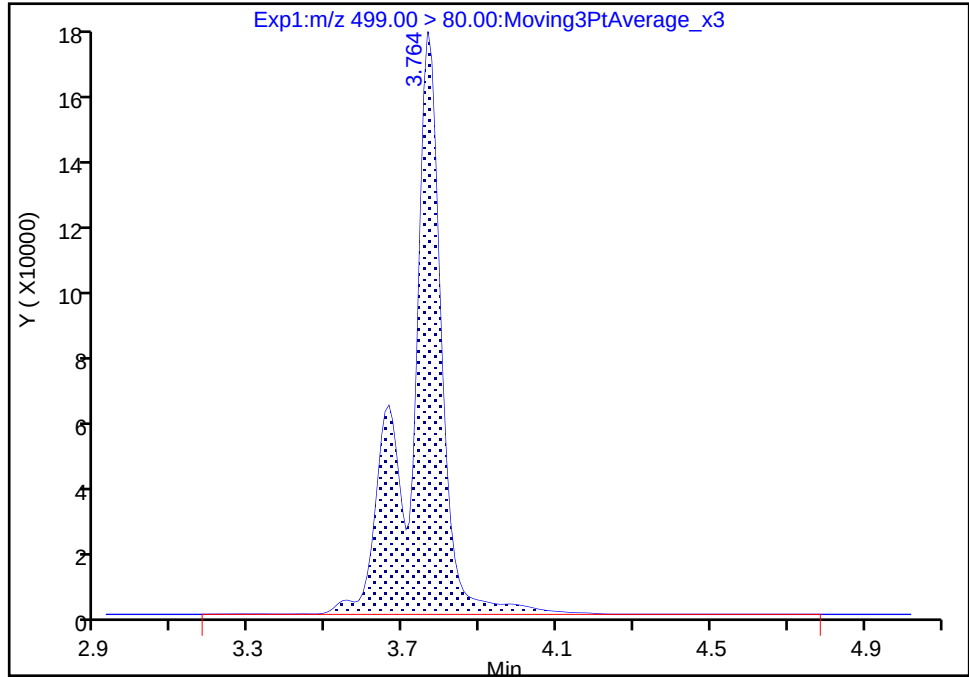
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

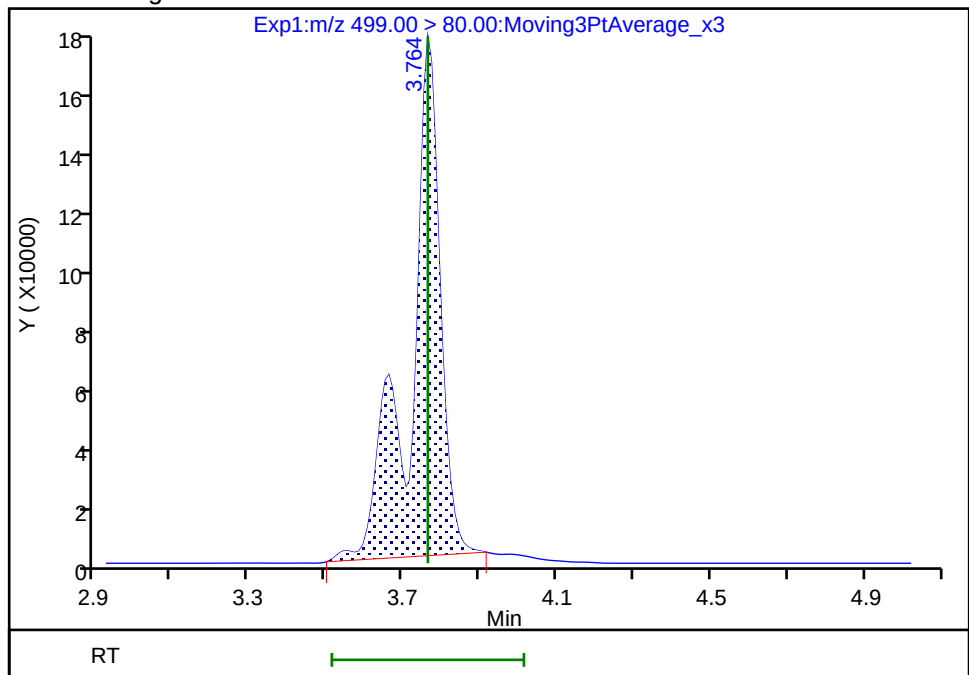
RT: 3.76
Area: 1017852
Amount: 0.925675
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 936613
Amount: 0.851793
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

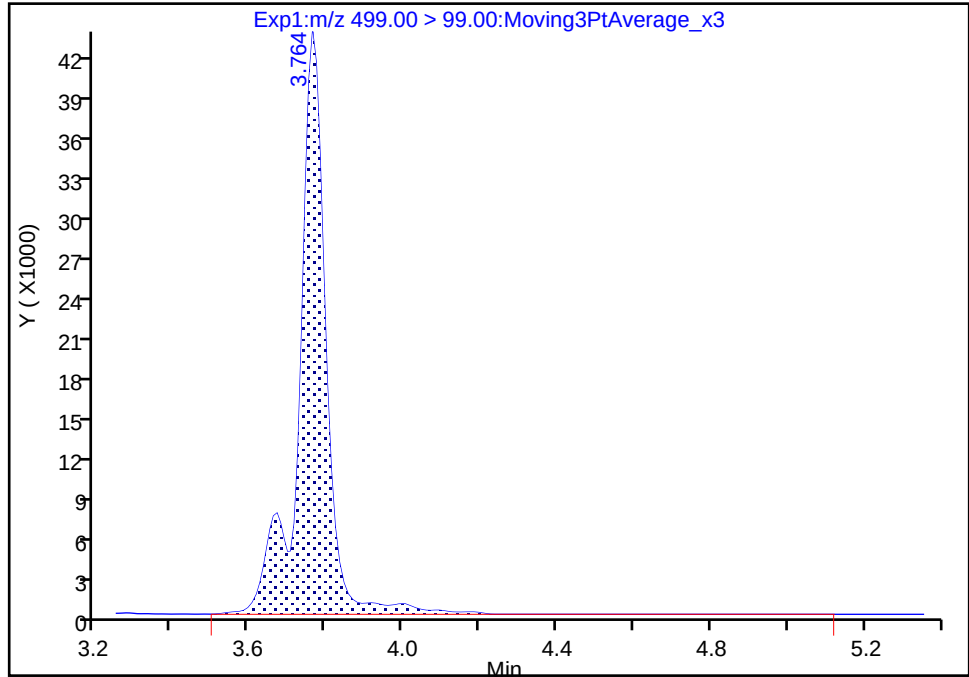
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

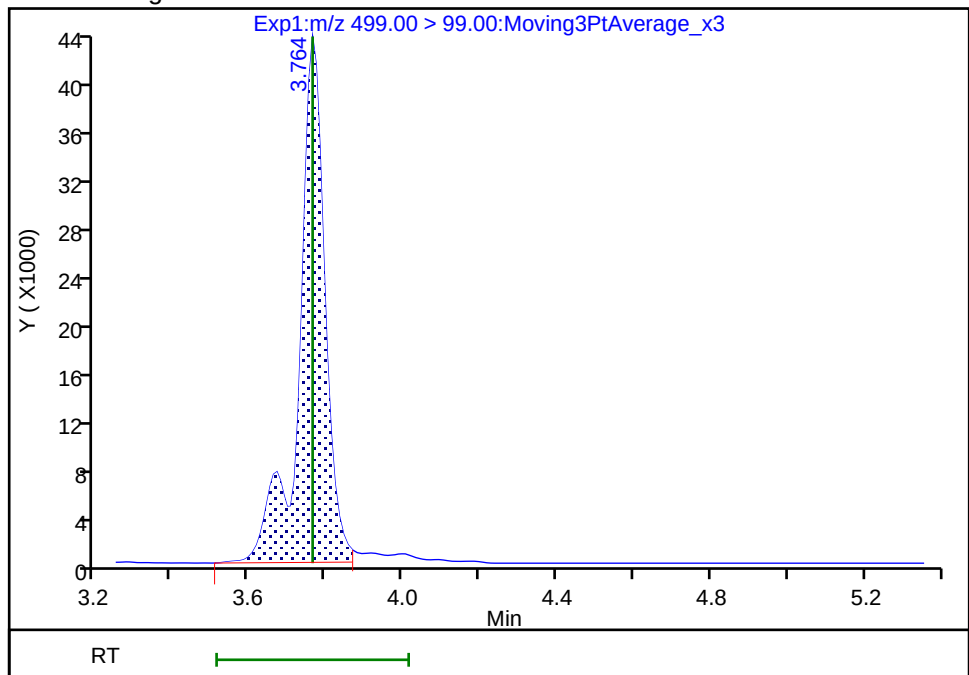
RT: 3.76
Area: 215493
Amount: 0.925675
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 204498
Amount: 0.851793
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

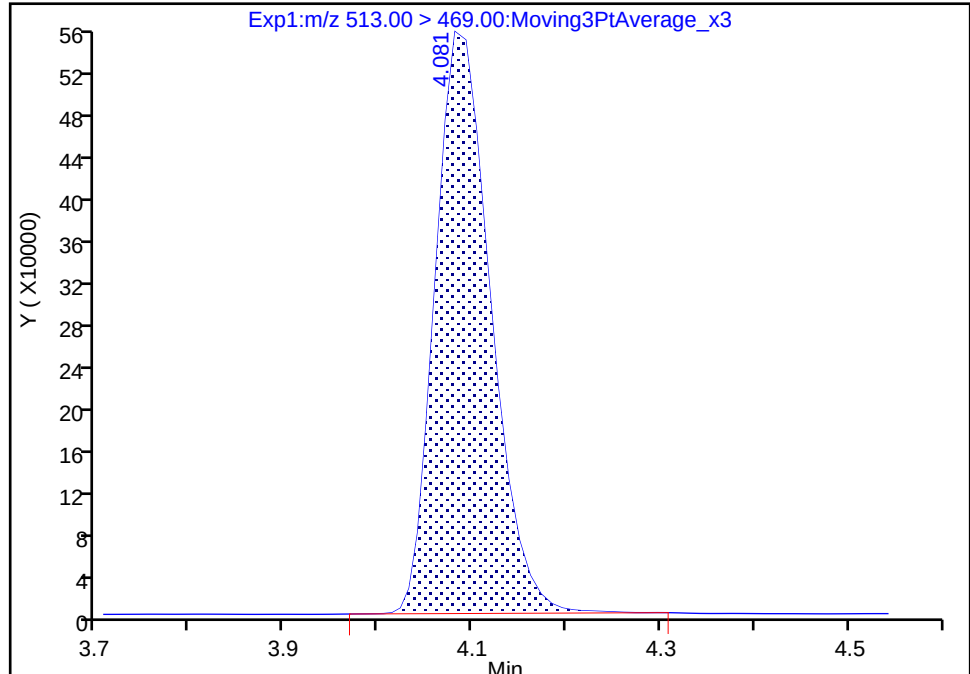
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

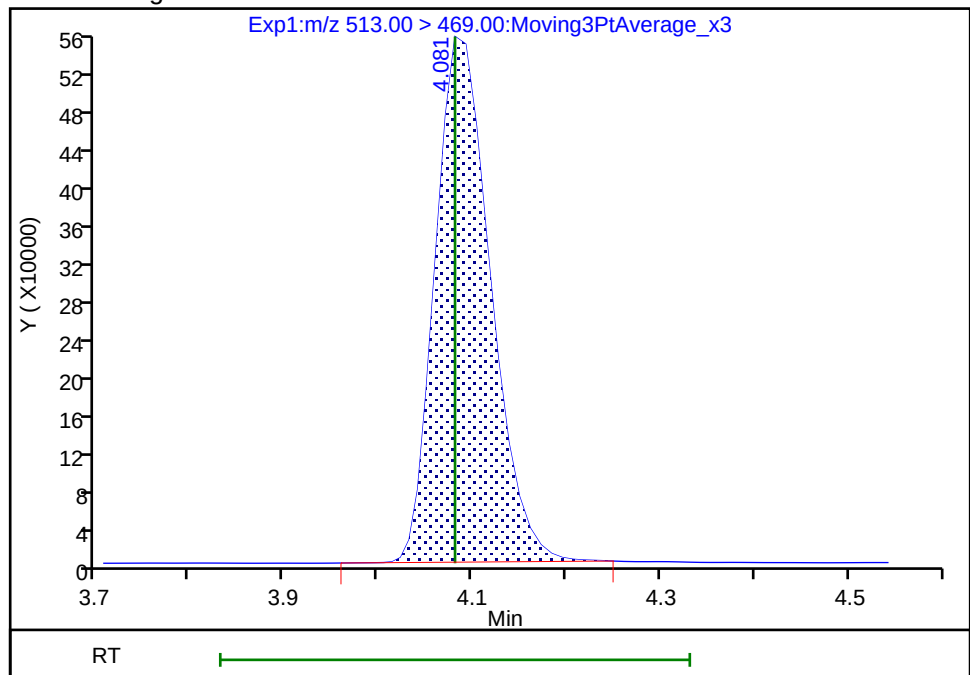
RT: 4.08
Area: 2277302
Amount: 1.004177
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2269026
Amount: 1.000528
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

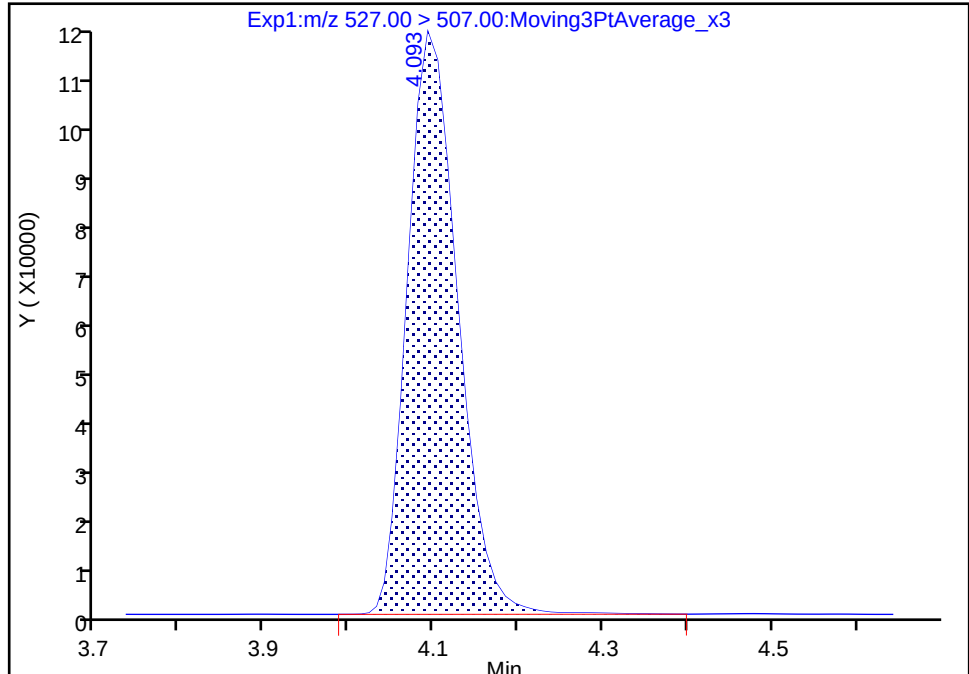
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

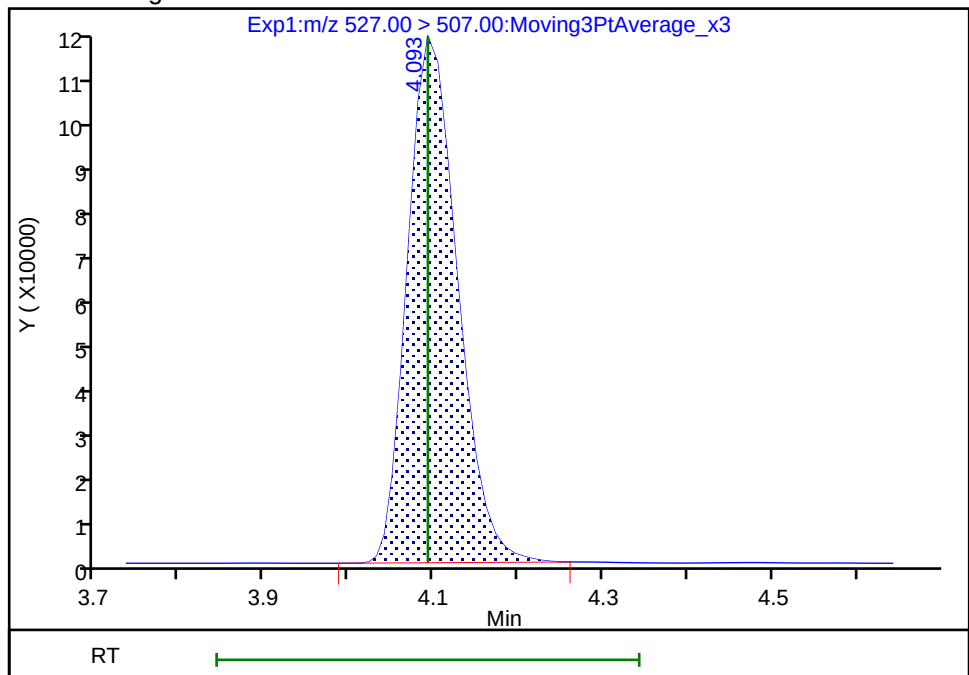
RT: 4.09
Area: 484745
Amount: 1.107834
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 481604
Amount: 1.100655
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

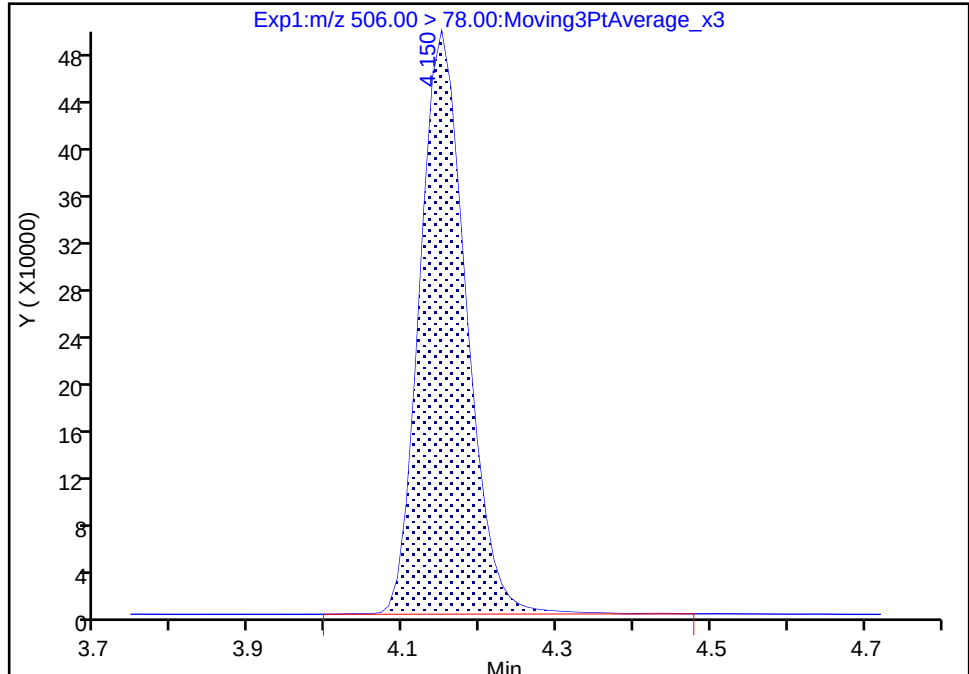
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

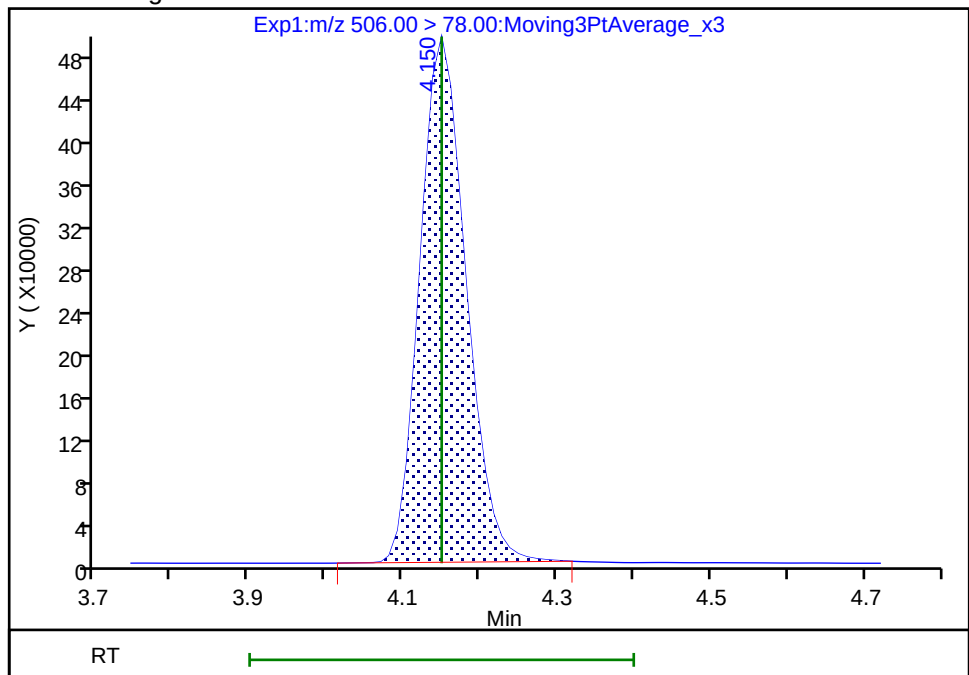
RT: 4.15
Area: 2074977
Amount: 1.063614
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2056044
Amount: 1.053909
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

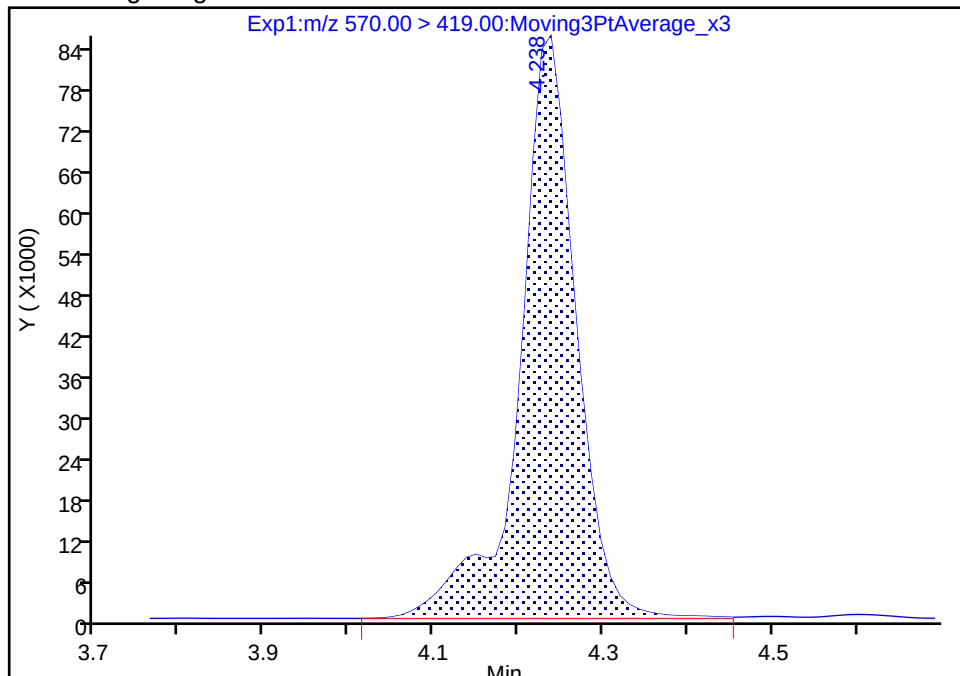
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

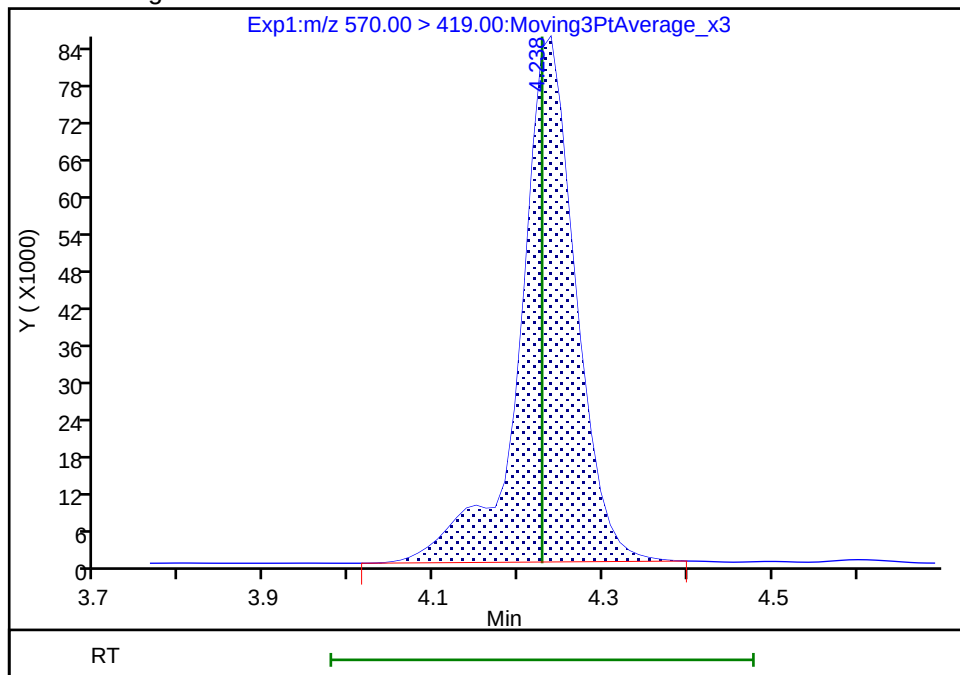
RT: 4.24
Area: 395419
Amount: 1.116920
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 390455
Amount: 1.102753
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

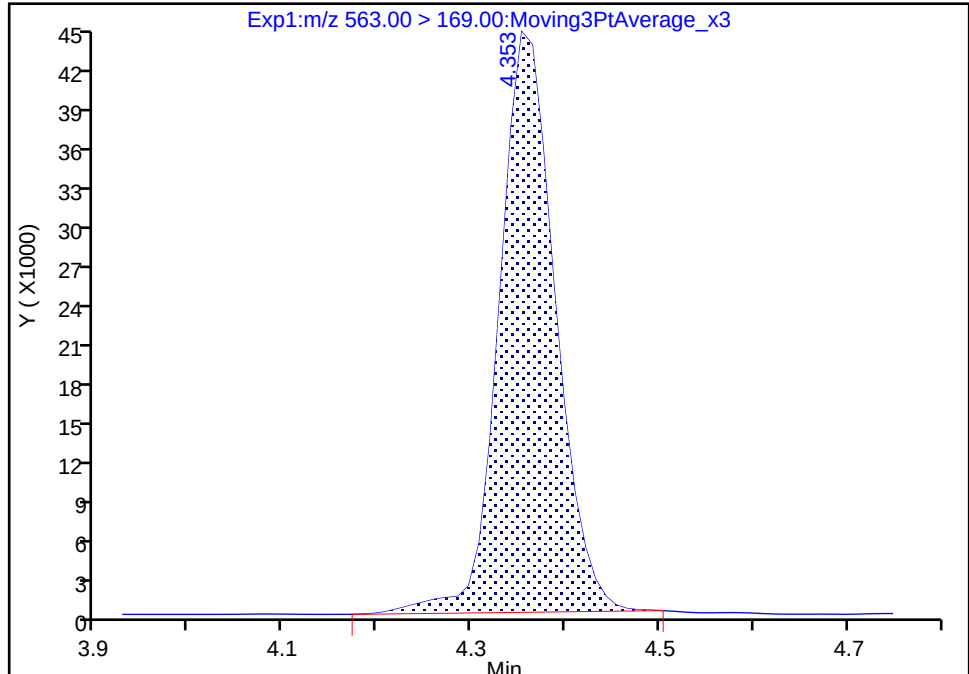
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

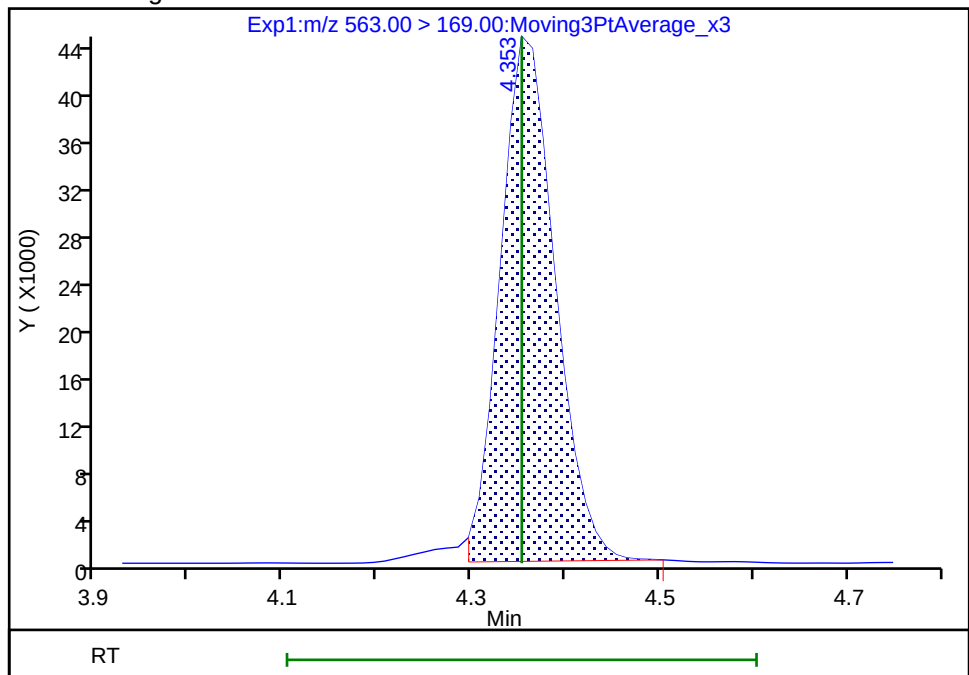
RT: 4.35
Area: 182508
Amount: 0.975318
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 177599
Amount: 0.962003
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

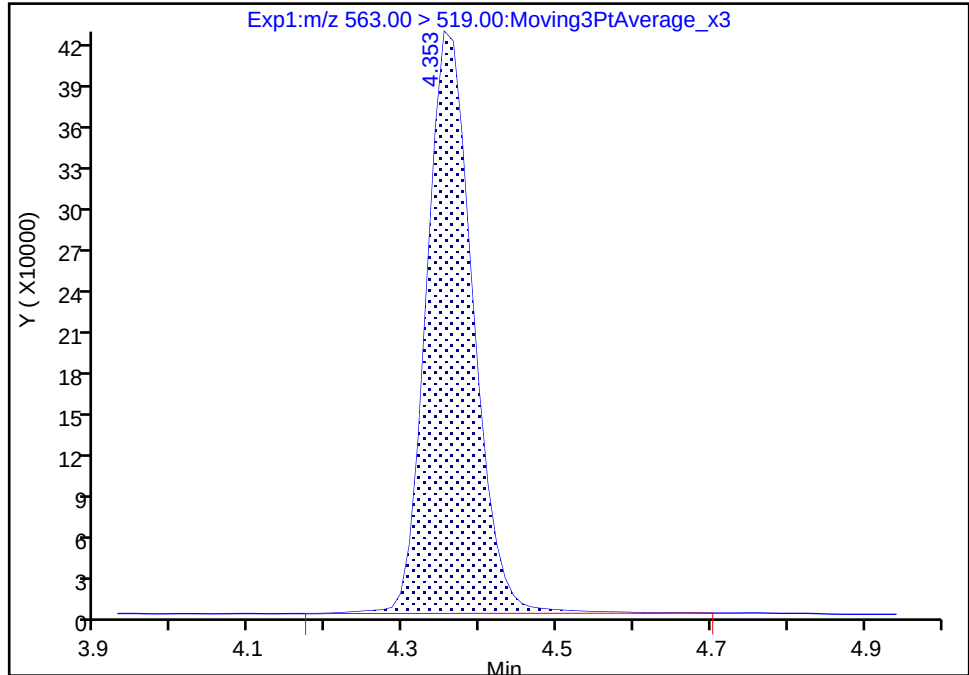
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

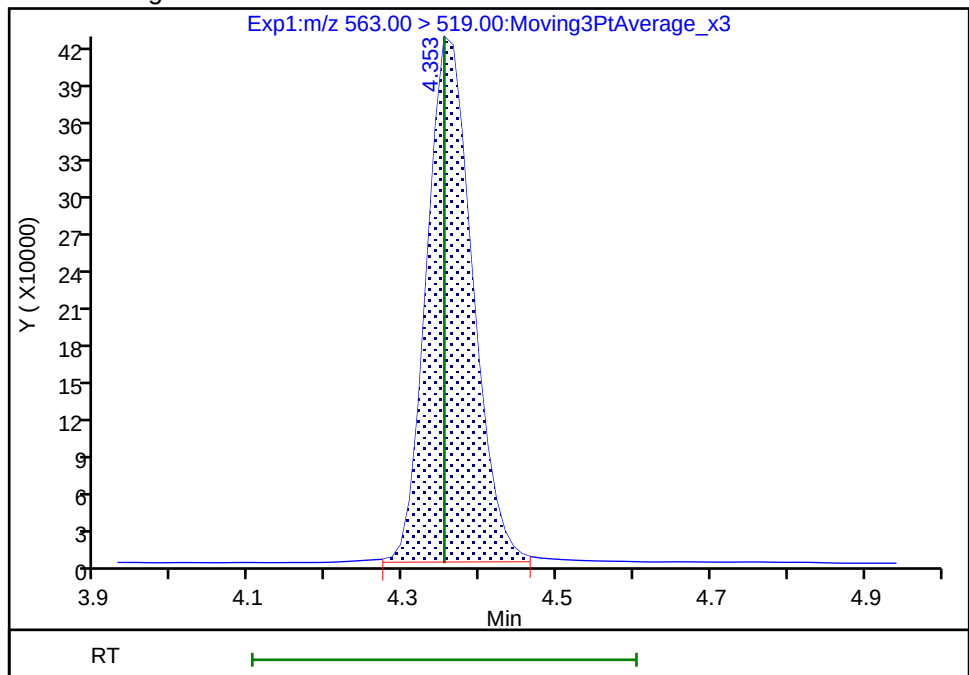
RT: 4.35
Area: 1763312
Amount: 0.975318
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1739241
Amount: 0.962003
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

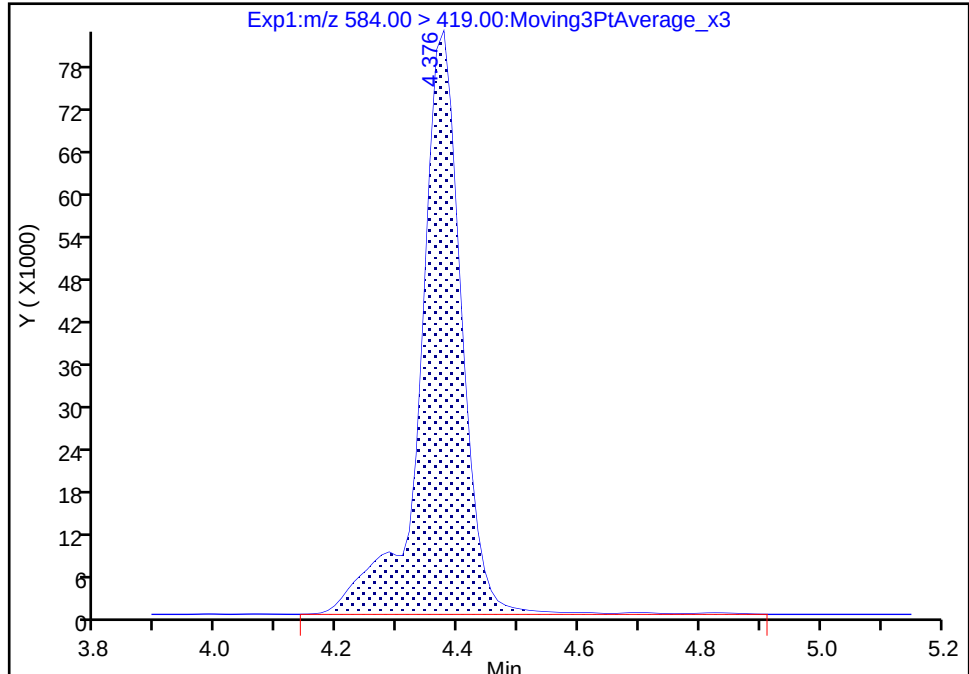
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Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

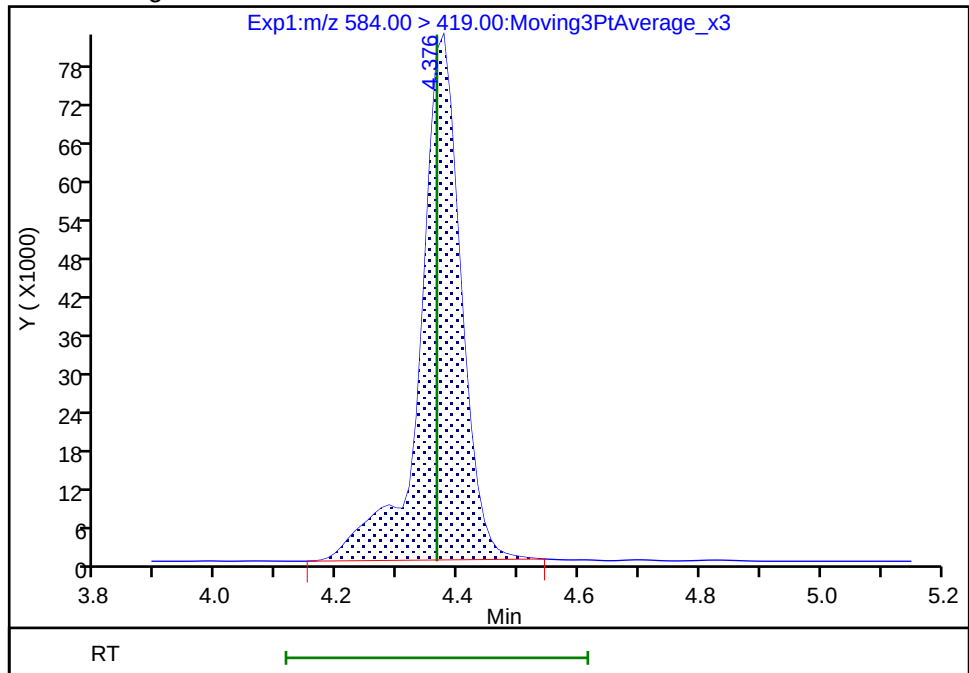
RT: 4.38
Area: 392736
Amount: 1.062553
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 385250
Amount: 1.042299
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

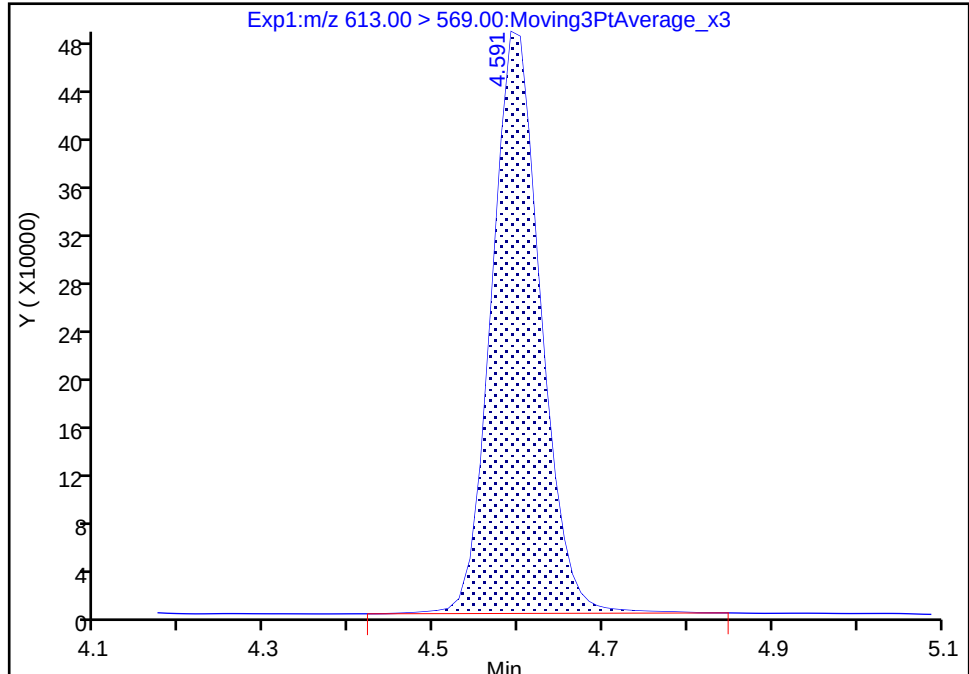
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

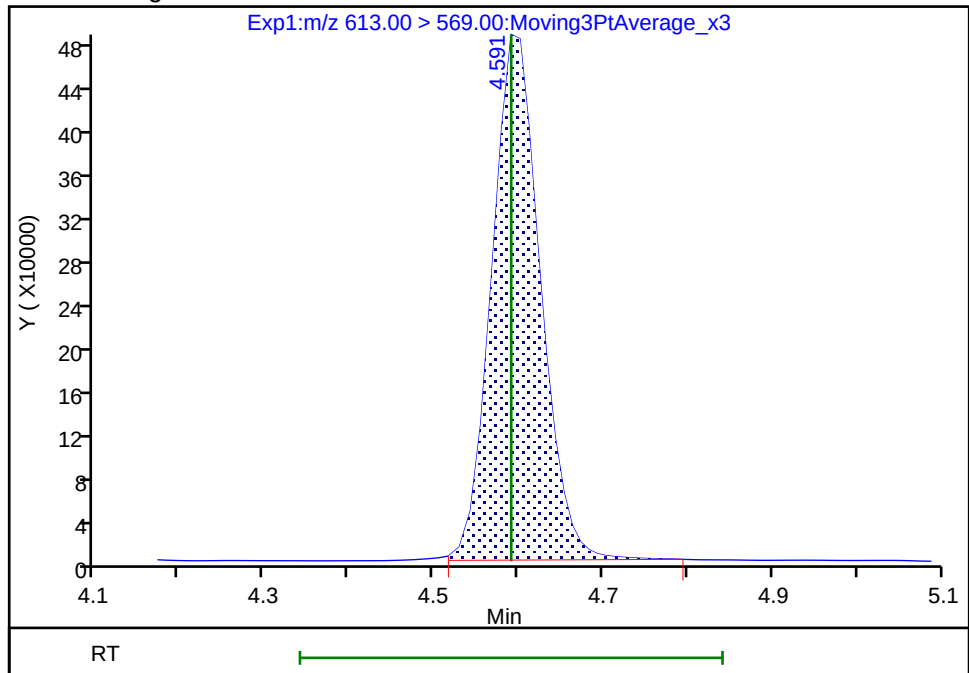
RT: 4.59
Area: 1962968
Amount: 0.983300
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 1949526
Amount: 0.976567
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

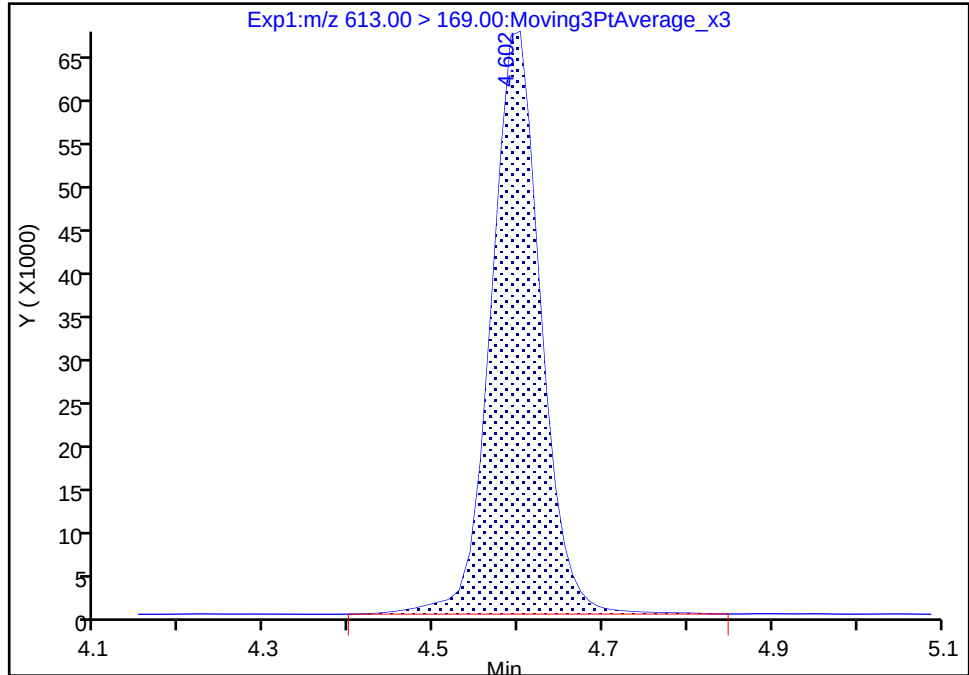
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

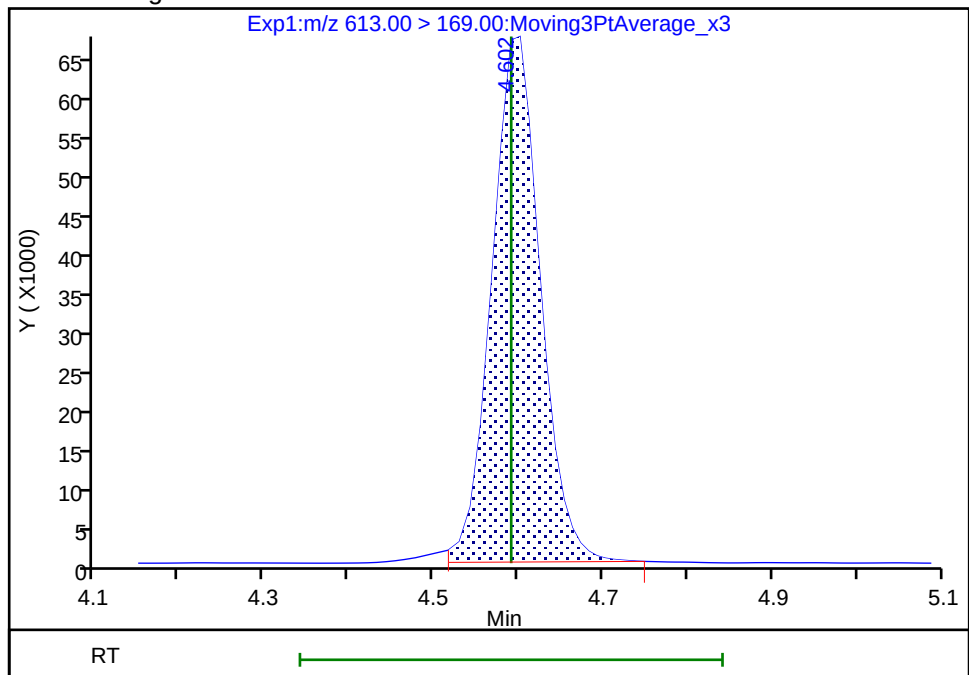
RT: 4.60
Area: 274375
Amount: 0.983300
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 268146
Amount: 0.976567
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

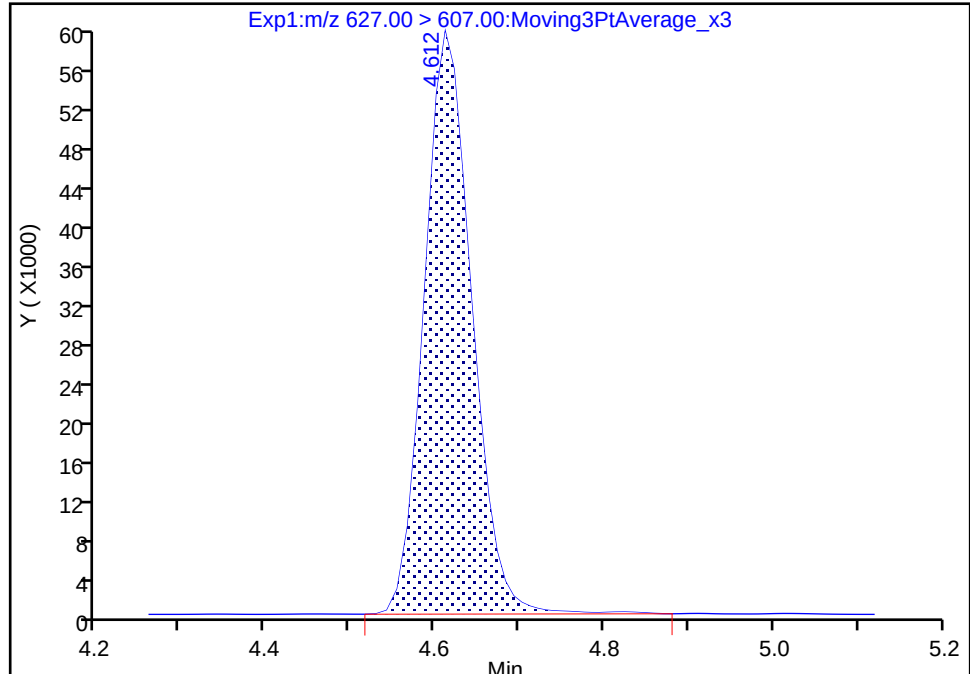
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

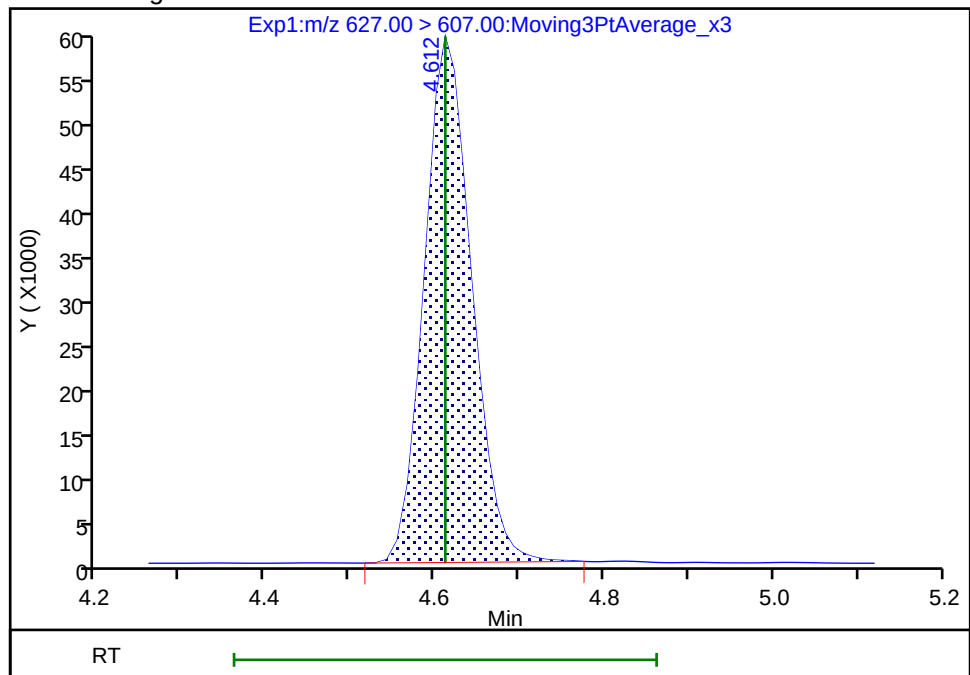
RT: 4.61
Area: 231961
Amount: 0.882195
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 230011
Amount: 0.874779
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

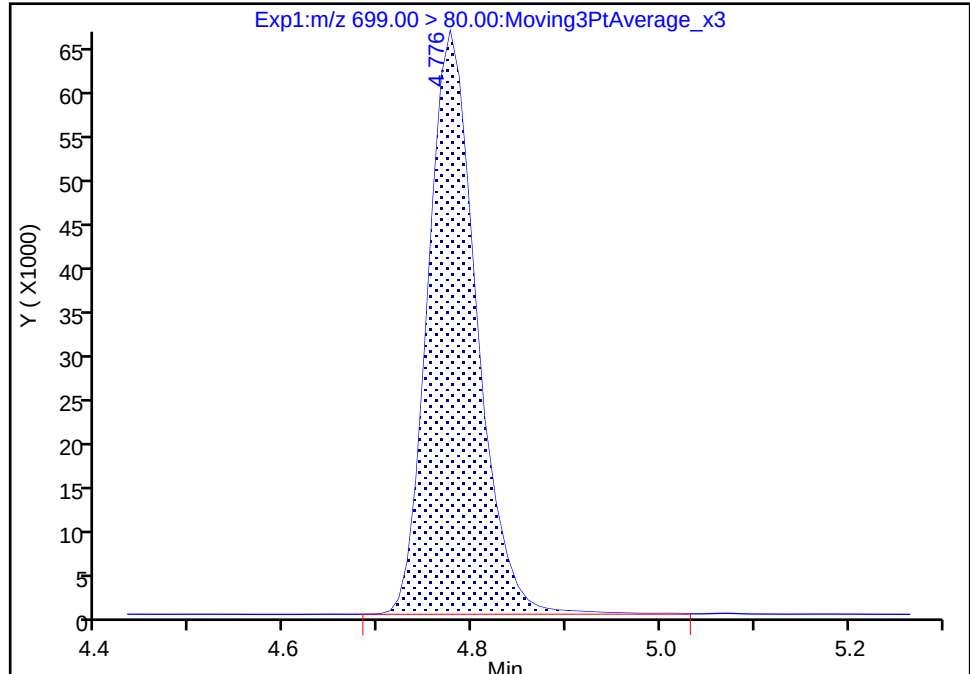
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

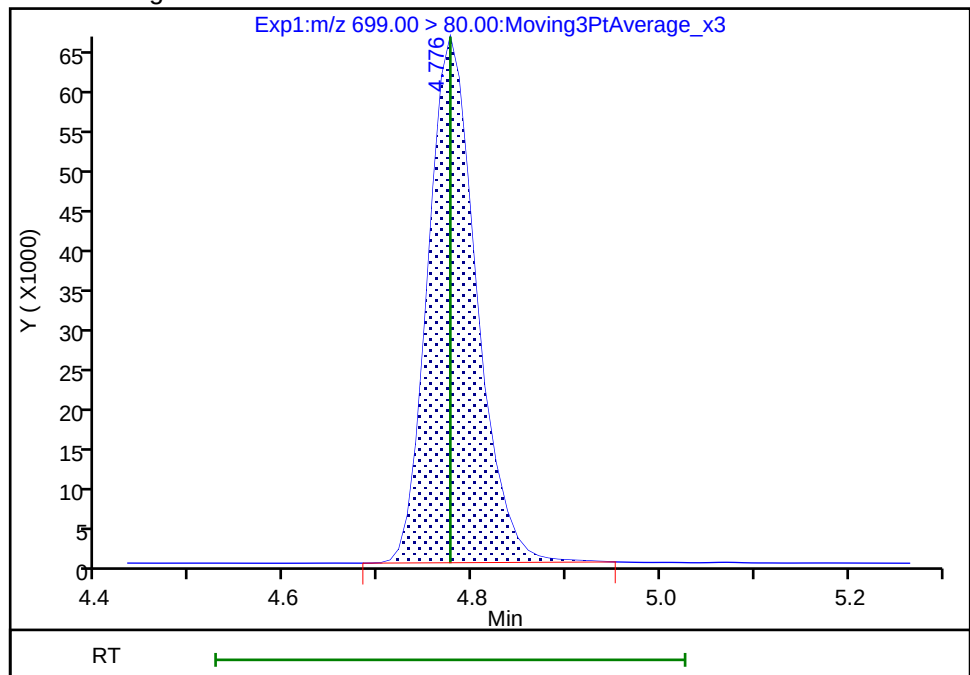
RT: 4.78
Area: 238904
Amount: 0.861661
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 237361
Amount: 0.856095
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

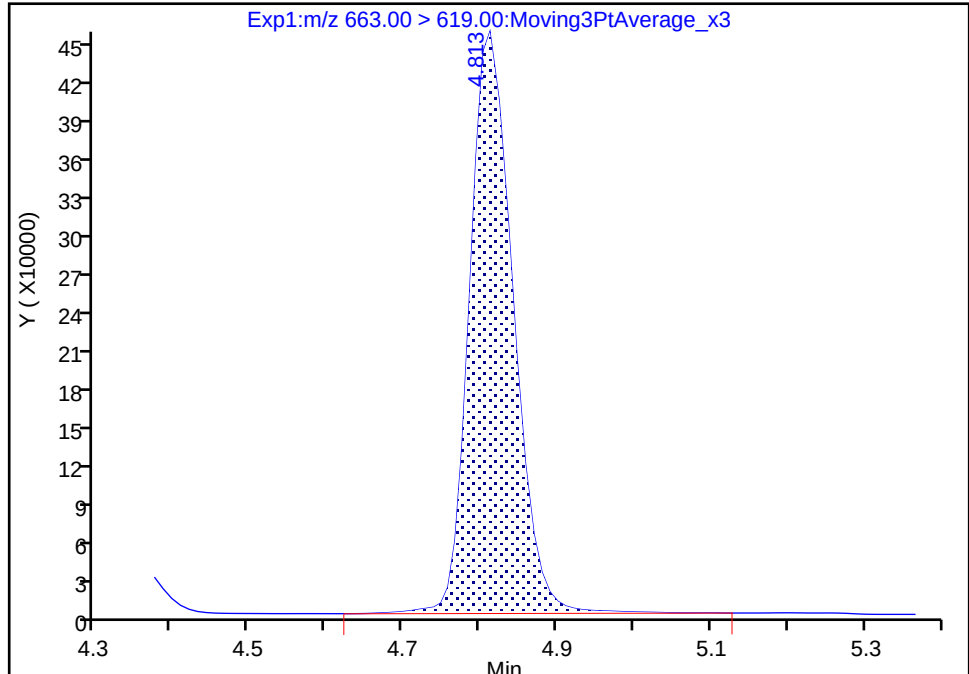
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

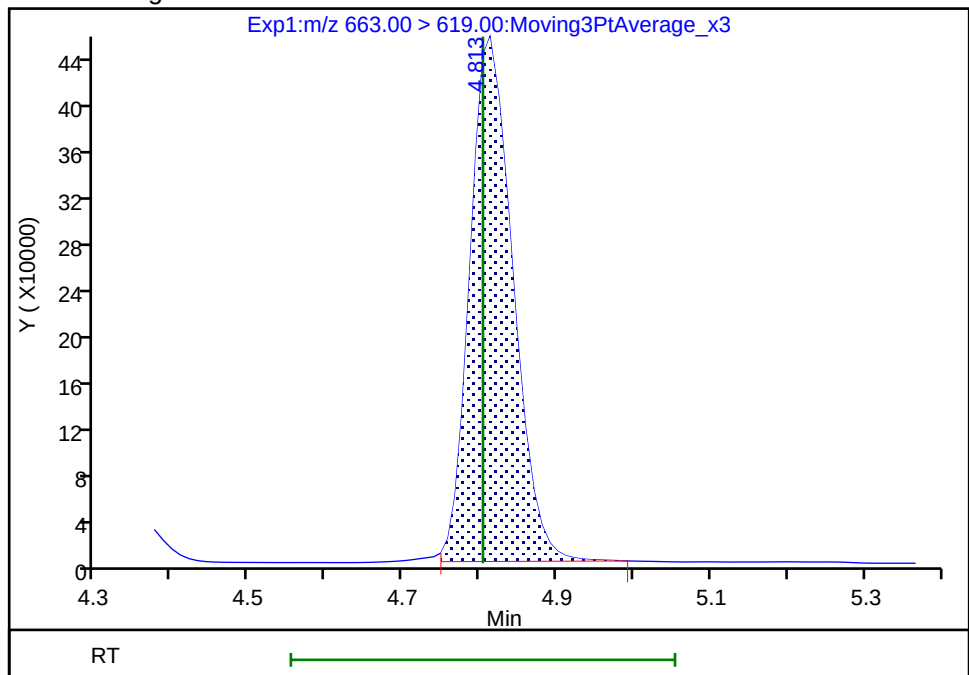
RT: 4.81
Area: 1771634
Amount: 0.927951
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1741096
Amount: 0.911955
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

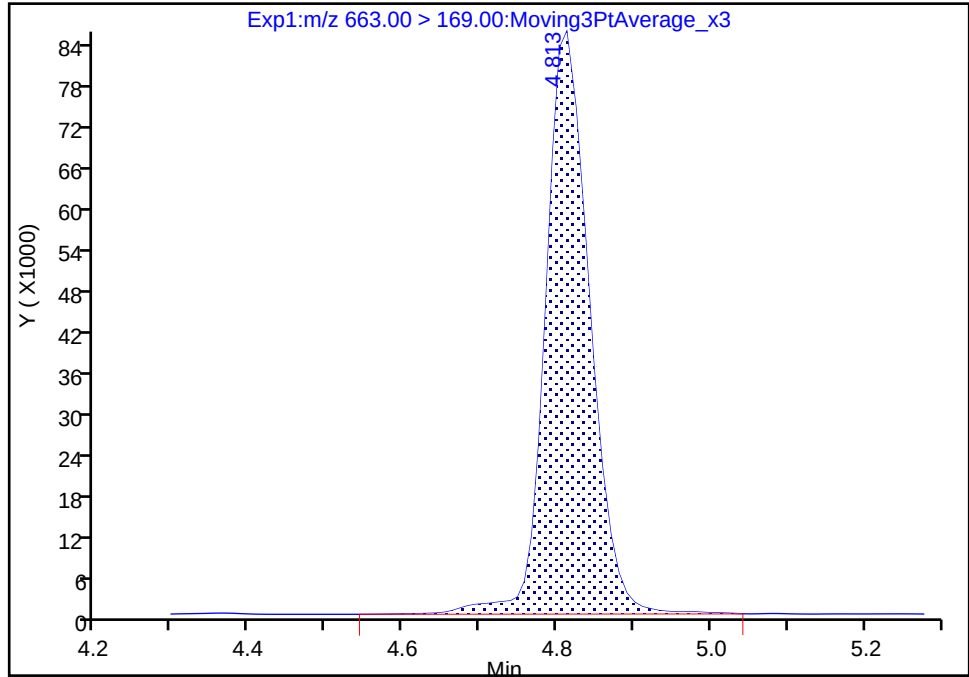
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

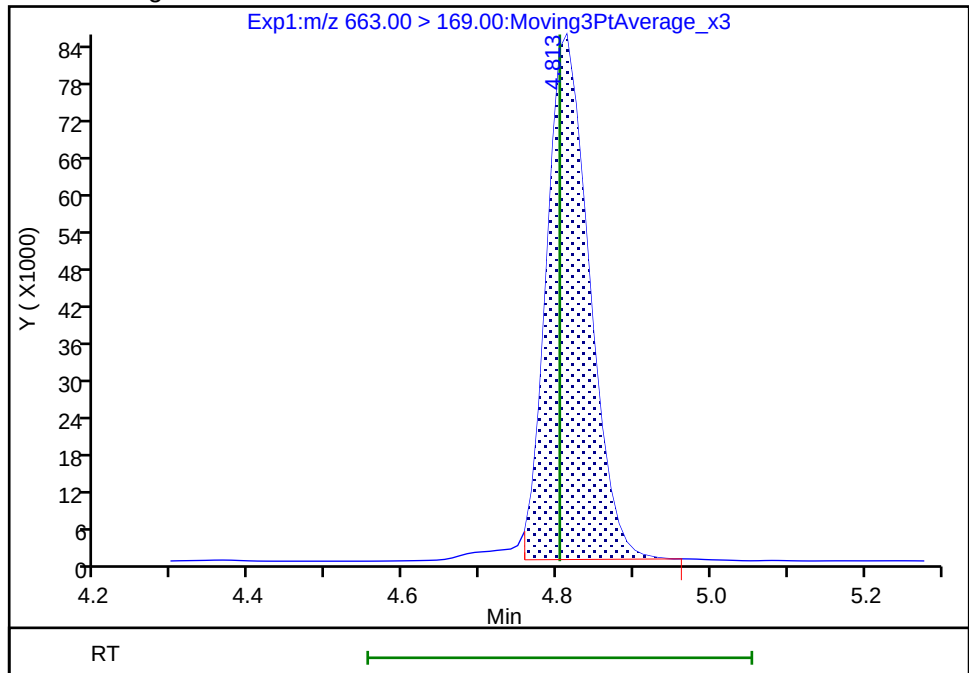
RT: 4.81
Area: 339583
Amount: 0.927951
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 325181
Amount: 0.911955
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

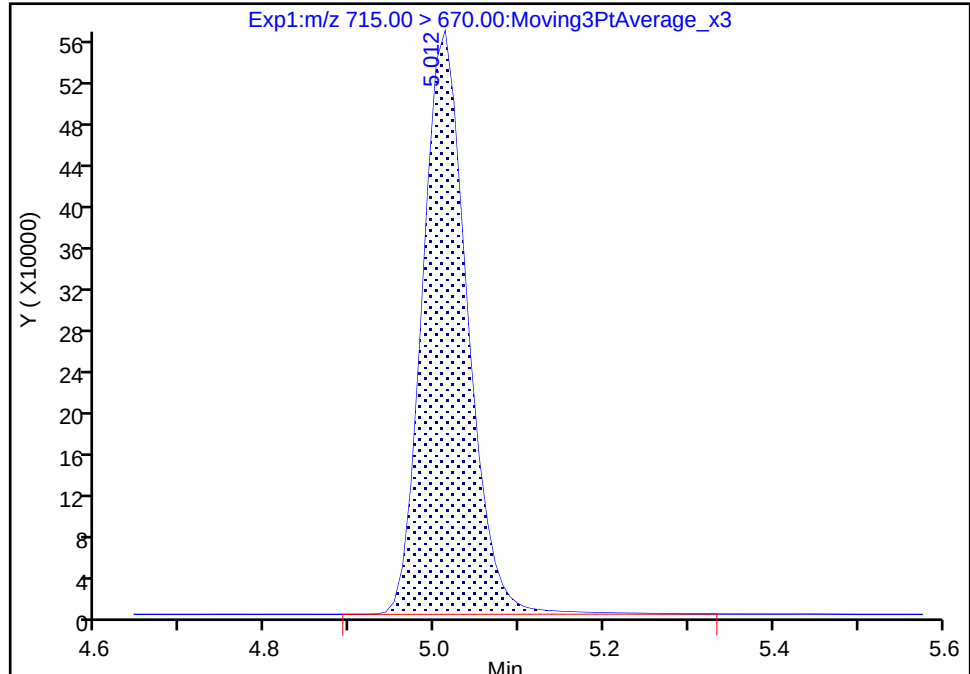
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

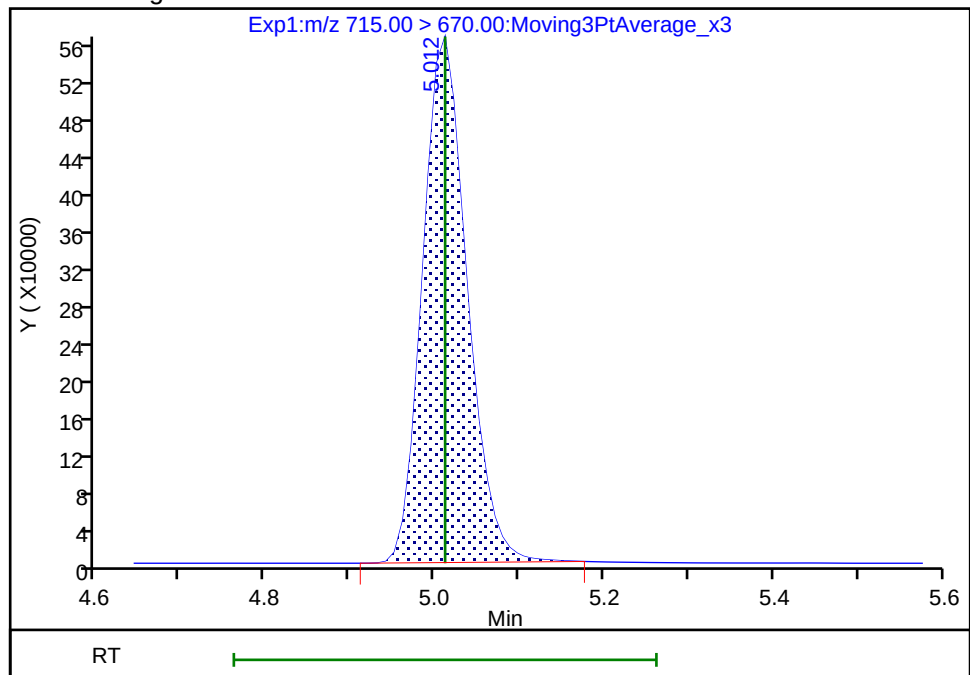
RT: 5.01
Area: 2079061
Amount: 1.082778
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 2059701
Amount: 1.072695
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

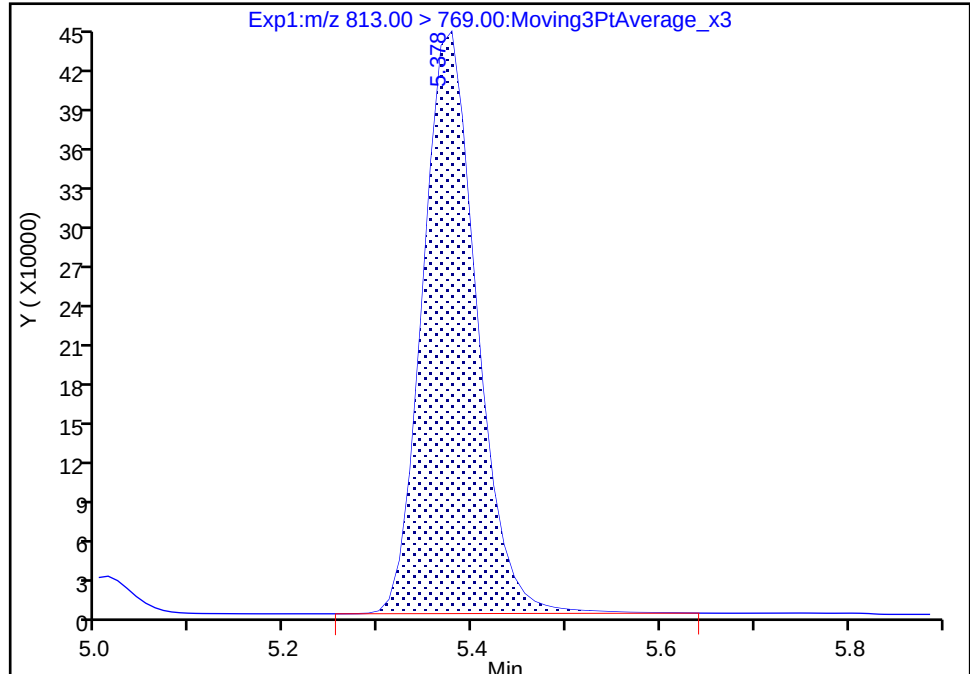
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

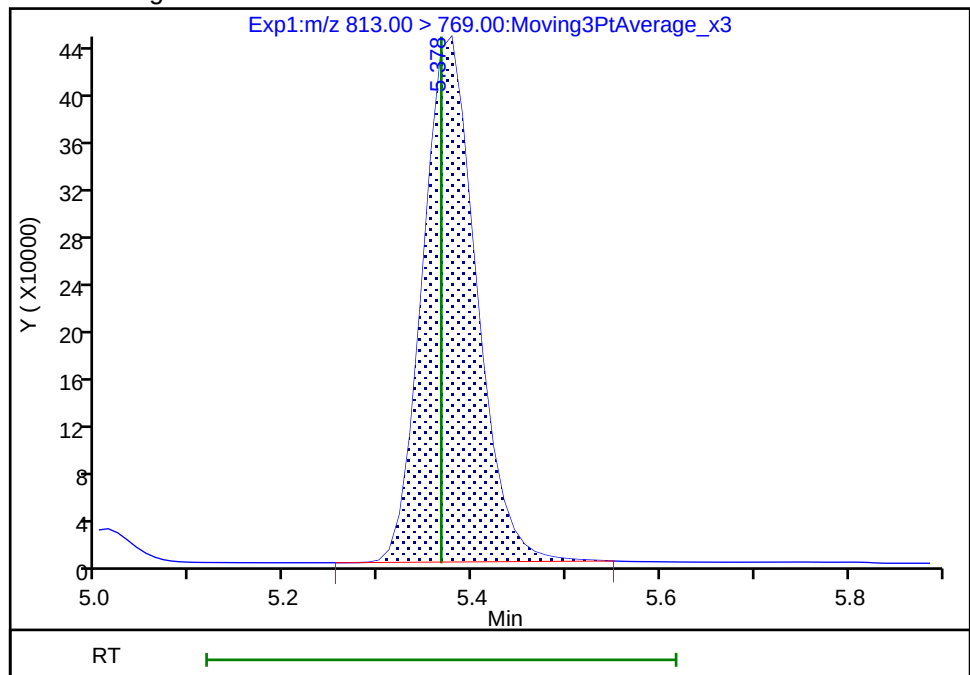
RT: 5.38
Area: 1762767
Amount: 0.891091
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 1751027
Amount: 0.885043
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

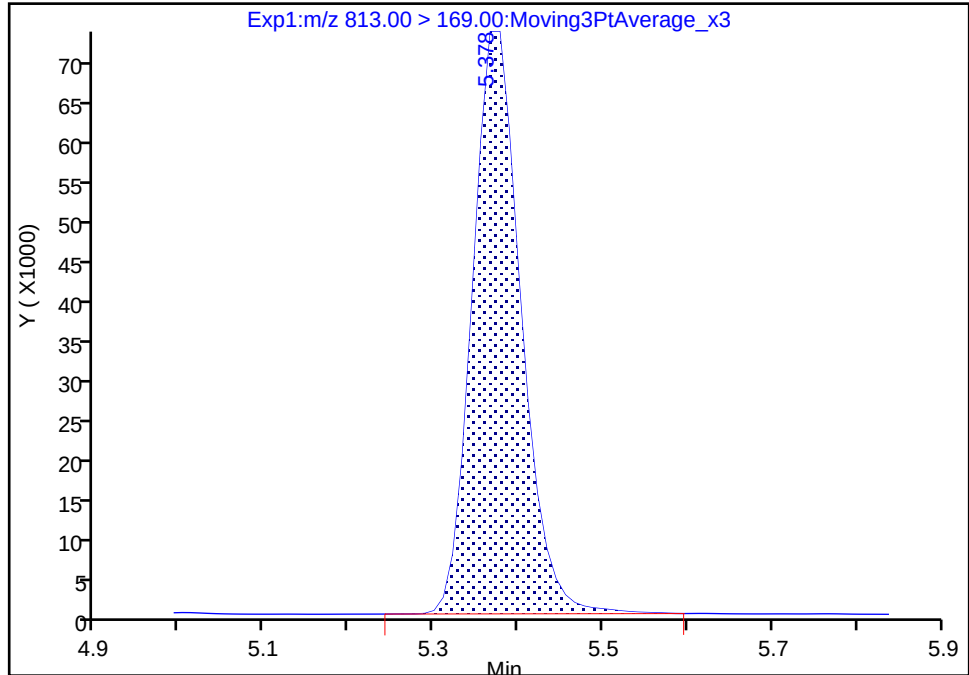
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

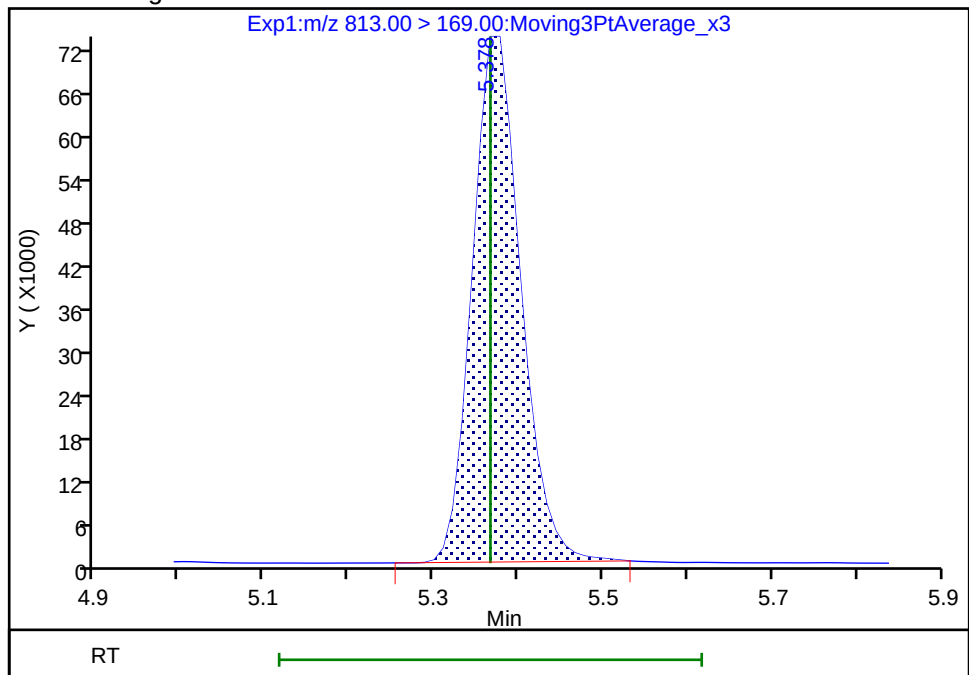
RT: 5.38
Area: 294445
Amount: 0.891091
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 292027
Amount: 0.885043
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

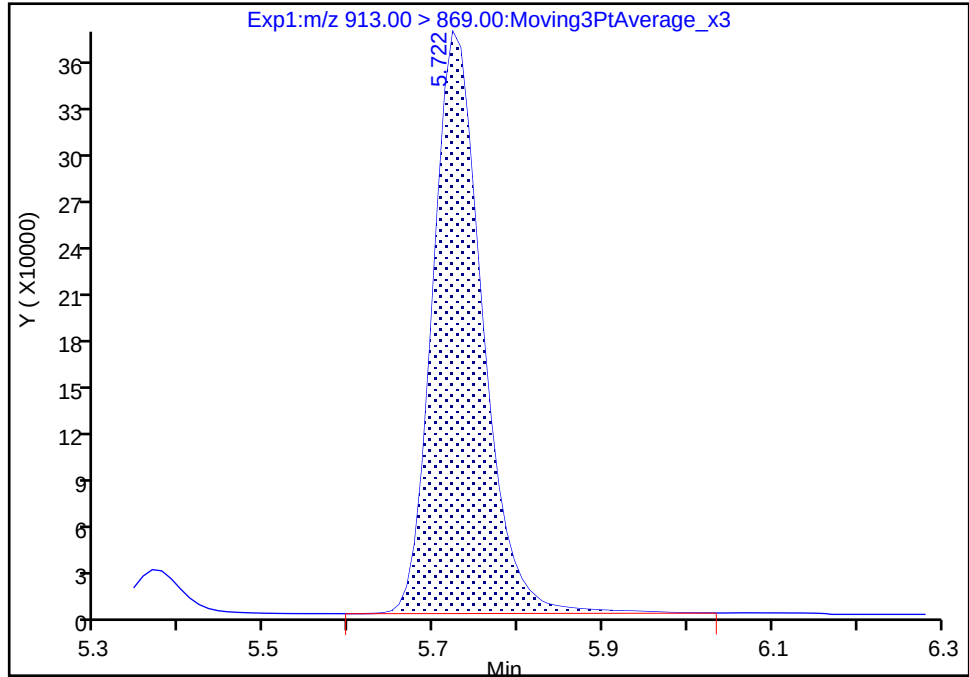
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

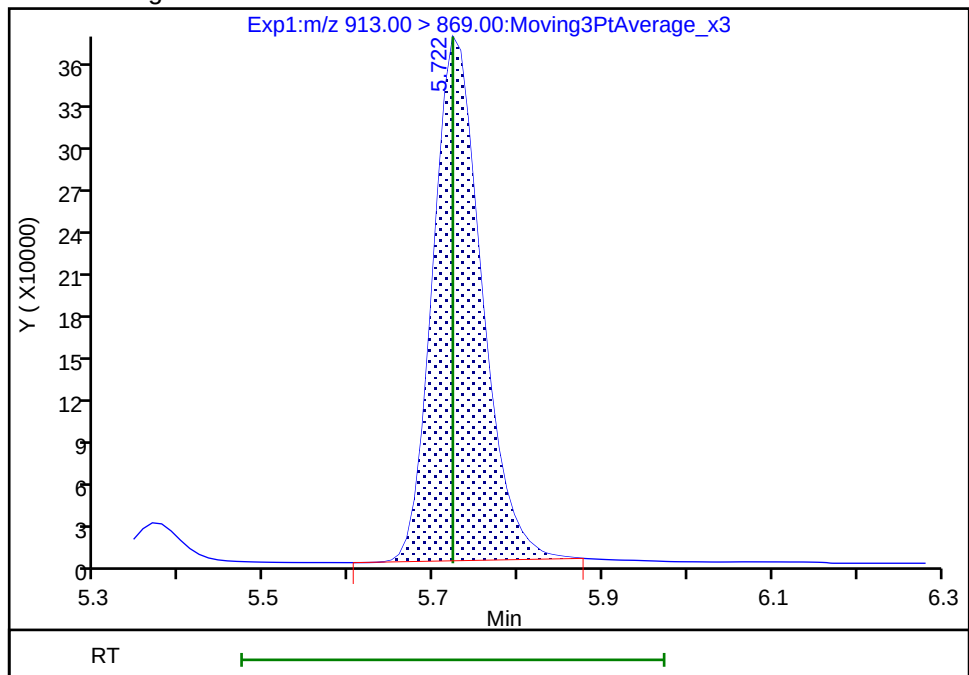
RT: 5.72
Area: 1522976
Amount: 0.876013
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 1490002
Amount: 0.857046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

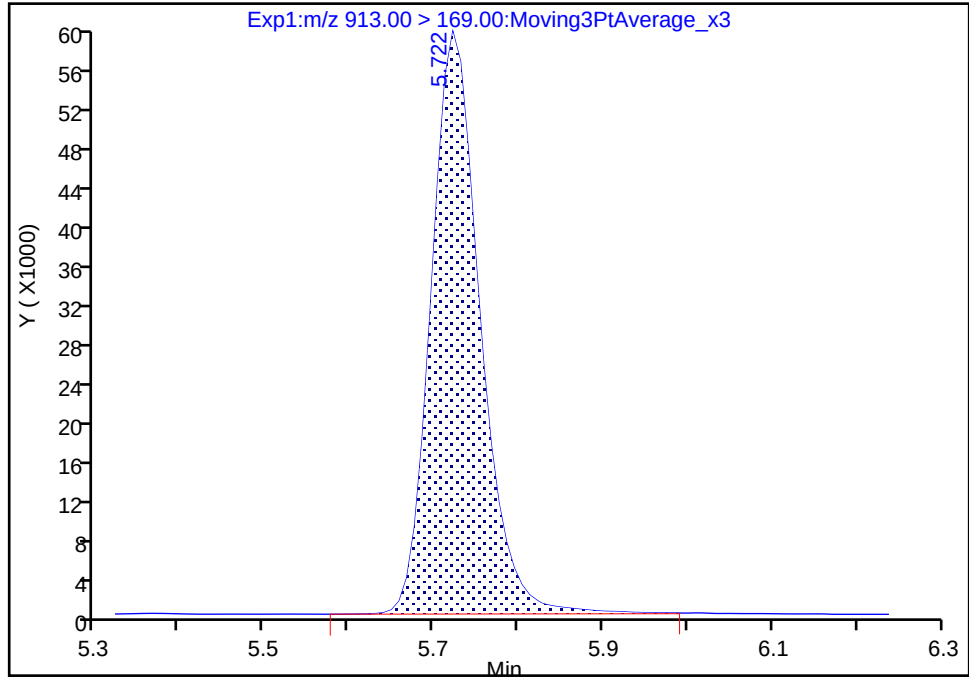
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

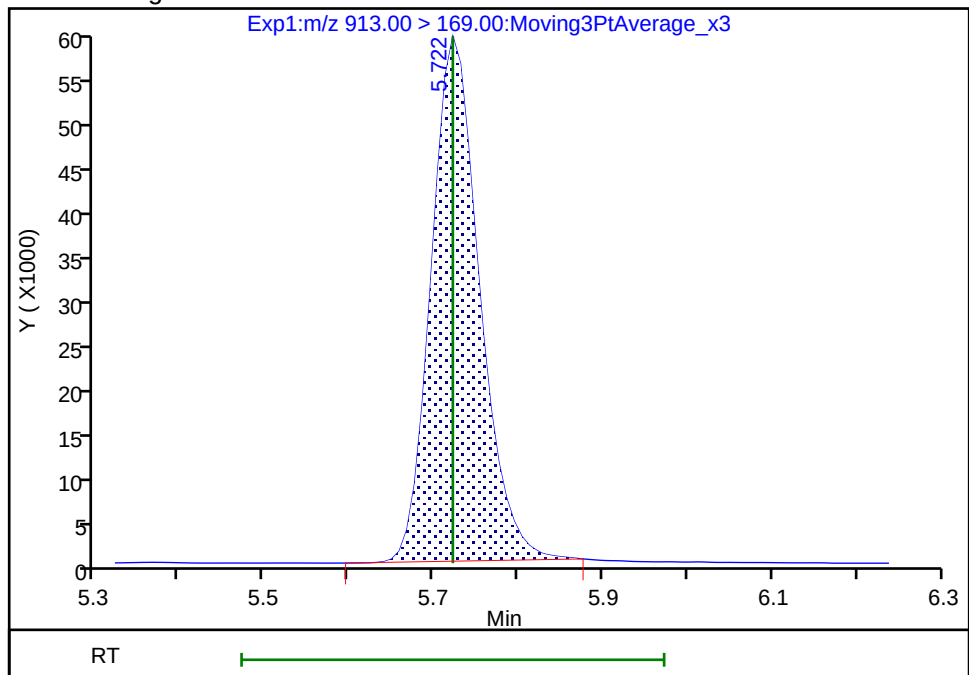
RT: 5.72
Area: 238468
Amount: 0.876013
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 233541
Amount: 0.857046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCVLIS 200-187252/5 Calibration Date: 01/04/2023 15:18

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230104A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	1.085		0.131	0.125	5.2	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.105		0.0507	0.0500	1.4	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.203		0.0465	0.0442	5.1	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.845		0.0431	0.0467	-7.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.094		0.0502	0.0500	0.4	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.274		0.0447	0.0469	-4.6	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	1.198		0.113	0.100	13.4	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.079		0.0496	0.0500	-0.9	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.221		0.0492	0.0455	8.2	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.423		0.0464	0.0471	-1.5	50.0
6:2 FTS	L1ID		2.375		0.121	0.119	2.4	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.436		0.0490	0.0476	2.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.100		0.0514	0.0500	2.9	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.203		0.0459	0.0464	-1.1	50.0
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9923		0.0478	0.0500	-4.3	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.982		0.0498	0.0466	6.8	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8973		0.0469	0.0480	-2.2	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.136		0.0524	0.0500	4.8	50.0
8:2 FTS	AveID	1.617	1.929		0.0571	0.0479	19.3	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	1.055		0.0505	0.0500	0.9	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8931		0.118	0.125	-5.5	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.7100		0.0472	0.0482	-2.0	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9800		0.0486	0.0500	-2.8	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.9637		0.135	0.125	7.6	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.841		0.0530	0.0471	12.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.104		0.0521	0.0500	4.2	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.061		0.0526	0.0482	9.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.3031		0.0478	0.0484	-1.1	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187252/5 Calibration Date: 01/04/2023 15:18
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA230104A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	1.098		0.0542	0.0500	8.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1313		0.0480	0.0500	-4.1	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.139		0.0449	0.0500	-10.3	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8448		0.0513	0.0500	2.6	50.0
13C4 PFBA	Ave	1.122	0.9719		1.08	1.25	-13.4	
13C5 PFPeA	Ave	0.8543	0.7668		1.12	1.25	-10.2	
13C3 PFBS	Ave	0.9281	0.8466		1.06	1.16	-8.8	
M2-4:2 FTS	Ave	0.0820	0.0731		1.04	1.17	-10.9	
13C2 PFHxA	Ave	0.8951	0.8214		1.15	1.25	-8.2	
13C3 HFPO-DA	Ave	0.1580	0.1480		1.17	1.25	-6.3	
13C4 PFHpA	Ave	0.9206	0.8821		1.20	1.25	-4.2	
18O2 PFHxS	Ave	0.6761	0.6557		1.15	1.18	-3.0	
M2-6:2 FTS	Ave	0.1134	0.1182		1.24	1.19	4.3	
13C4 PFOA	Ave	1.035	1.023		1.24	1.25	-1.2	
13C4 PFOS	Ave	0.4588	0.4460		1.16	1.20	-2.8	
13C5 PFNA	Ave	1.006	1.050		1.31	1.25	4.4	
13C2 PFDA	Ave	1.025	1.062		1.30	1.25	3.6	
M2-8:2 FTS	Ave	0.1387	0.1389		1.20	1.20	0.2	
13C8 FOSA	Ave	0.8403	0.8027		1.19	1.25	-4.5	
d3-NMeFOSAA	Ave	0.2087	0.1939		1.16	1.25	-7.1	
13C2 PFUnA	Ave	0.9385	1.011		1.35	1.25	7.7	
d5-NEtFOSAA	Ave	0.2055	0.1873		1.14	1.25	-8.8	
13C2 PFDoA	Ave	0.9562	0.9472		1.24	1.25	-0.9	
13C2 PFTeDA	Ave	0.8270	0.9532		1.44	1.25	15.3	
13C2 PFHxDA	Ave	1.022	1.104		1.35	1.25	7.9	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 04-Jan-2023 15:18:10 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0053892-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 08:37:13 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: nampitakw

Date: 05-Jan-2023 16:24:03

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	2.076	2.076	0.0	0.602	2685640	1.08		86.6	10272	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	291328	0.1315		105	25.0	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	2118915	1.12		89.8	2891	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	93667	0.0507		101	2.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.696	2175507	1.06		91.2	195174	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	99474	0.0465	Target=2.09	105	125	
298.90 > 99.00	2.400	2.400	0.0	1.000	43982		2.26(1.04-3.13)		33.3	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	21473	0.0431		92.3	186	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.780	188685	1.04		89.1	192	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2269745	1.15		91.8	2986	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	99282	0.0502	Target=14.25	100	16.6	
313.00 > 119.00	2.725	2.725	0.0	1.000	7039		14.10(7.12-21.37)		10.9	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	86594	0.0447	Target=3.04	95.4	108	
349.00 > 99.00	2.737	2.737	0.0	0.887	30585		2.83(1.52-4.56)		74.8	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	39197	0.1134		113	216	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	2.835	2.835	0.0	0.822	409046	1.17		93.7	2336	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1714027	1.15		97.0	1641	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	80557	0.0492	Target=3.66	108	195	M
399.00 > 99.00	3.088	3.088	0.0	1.000	21768		3.70(1.83-5.49)		37.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	2437401	1.20		95.8	4888	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.088	3.099	-0.011	1.000	105227	0.0496	Target=3.97	99.1	18.2	M
363.00 > 169.00	3.088	3.099	-0.011	1.000	28222		3.73(1.98-5.95)		39.2	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.834	251825	0.0464	Target=3.16	98.5	368	
377.00 > 85.00	3.132	3.132	0.0	0.834	75945		3.32(1.58-4.73)		123	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.995	310335	1.24		104	1117	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.000	73539	0.1213		102	75.4	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.914	67408	0.0490	Target=5.14	103	232	
449.00 > 99.00	3.430	3.439	-0.009	0.914	12214		5.52(2.57-7.72)		59.7	M
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.448	-0.009	0.997	2825423	1.23		98.8	3326	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2763150	1.25			4549	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.003	124294	0.0514	Target=2.79	103	9.5	
413.00 > 169.00	3.448	3.448	0.0	1.003	42895		2.90(1.40-4.19)		49.9	
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.089	1178183	1.16		97.2	3431	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.764	-0.010	1.000	55028	0.0459	Target=5.11	98.9	126	M
499.00 > 99.00	3.754	3.764	-0.010	1.000	12781		4.31(2.55-7.66)		78.7	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.783	-0.010	1.000	115199	0.0478	Target=8.55	95.7	28.9	
463.00 > 169.00	3.783	3.783	0.0	1.003	14250		8.08(4.28-12.83)		128	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.095	2902217	1.31		104	5863	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.916	3.928	-0.012	1.043	137010	0.0498		107	643	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.050	0.001	1.079	42465	0.0469	Target=2.53	97.8	353	
549.00 > 99.00	4.051	4.050	0.001	1.079	17048		2.49(1.27-3.80)		161	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.181	2934860	1.30		104	3918	

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	4.071	4.081	-0.010	1.000	133367	0.0524	Target=10.26	105	72.0	M
513.00 > 169.00	4.071	4.081	-0.010	1.000	12200		10.93(5.13-15.38)		39.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.184	367701	1.20		100	1269	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.081	4.093	-0.012	1.000	28373	0.0571		119	232	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	93562	0.0505		101	440	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2218067	1.19		95.5	2870	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.217	4.228	-0.011	1.223	535876	1.16		92.9	2468	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.217	4.228	-0.011	1.000	47858	0.1181		94.5	149	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.320	4.331	-0.011	1.151	33739	0.0472	Target=2.51	98.0	524	
599.00 > 99.00	4.308	4.331	-0.023	1.148	12412		2.72(1.25-3.76)		184	
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.259	2792651	1.35		108	6021	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.353	-0.011	1.000	109474	0.0486	Target=9.88	97.2	63.0	
563.00 > 169.00	4.342	4.353	-0.011	1.000	12045		9.09(4.94-14.82)		125	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.353	4.365	-0.012	1.000	49882	0.1346		108	439	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.263	517605	1.14		91.2	1207	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.183	224811	0.0530		113	1012	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.580	4.591	-0.011	1.000	115555	0.0521	Target=7.77	104	12.5	M
613.00 > 169.00	4.580	4.591	-0.011	1.000	15664		7.38(3.89-11.66)		196	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.328	2617349	1.24		99.1	4380	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.601	4.612	-0.011	1.127	15696	0.0526		109	237	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.267	14465	0.0478	Target=0.50	98.9	284	
699.00 > 99.00	4.758	4.776	-0.018	1.267	27169		0.53(0.25-0.76)		501	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.047	114968	0.0542	Target=5.21	108	11.5	
663.00 > 169.00	4.794	4.804	-0.010	1.047	19972		5.76(2.60-7.81)		102	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.992	5.012	-0.020	1.000	13834	0.0480	Target=0.89	95.9	125	
713.00 > 219.00	4.982	5.012	-0.030	0.998	14230		0.97(0.44-1.33)		125	
D 43 13C2 PFTeDA										M
715.00 > 670.00	4.992	5.012	-0.020	1.448	2633902	1.44		115	6980	M

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	5.344	5.367	-0.023	1.000	138964	0.0449	Target=5.65	89.7	15.0	
813.00 > 169.00	5.344	5.367	-0.023	1.000	22660		6.13(2.82-8.47)		144	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.550	3049747	1.35		108	4395	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.686	5.722	-0.036	1.064	103052	0.0513	Target=6.24	103	14.4	M
913.00 > 169.00	5.677	5.722	-0.045	1.062	13956		7.38(3.12-9.36)		149	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00024

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d

Injection Date: 04-Jan-2023 15:18:10

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

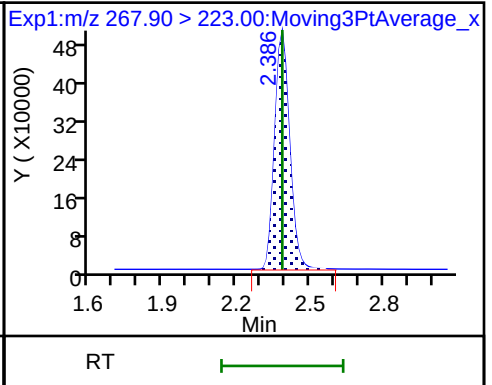
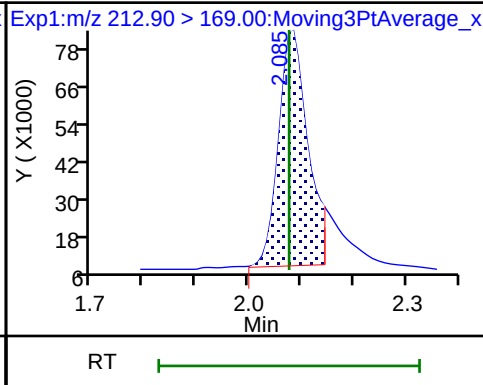
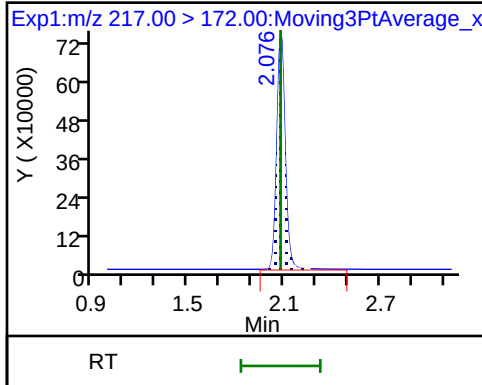
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

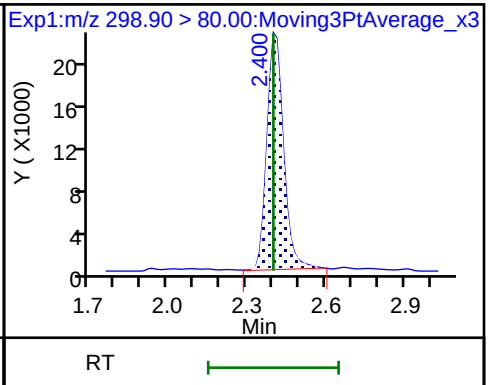
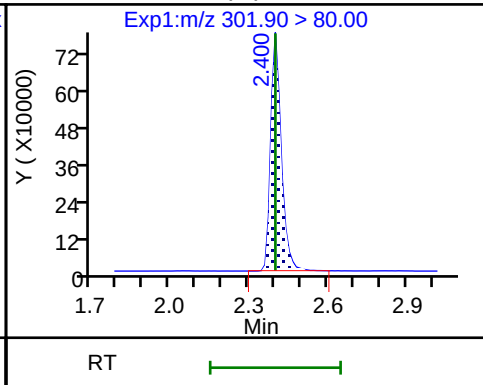
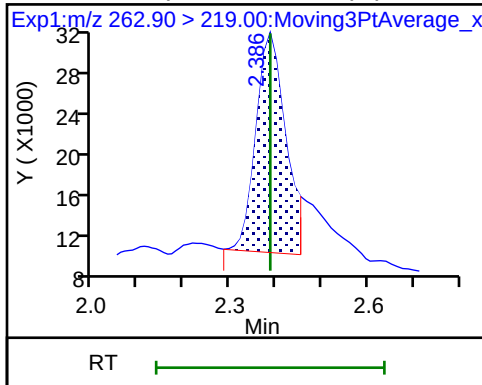
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

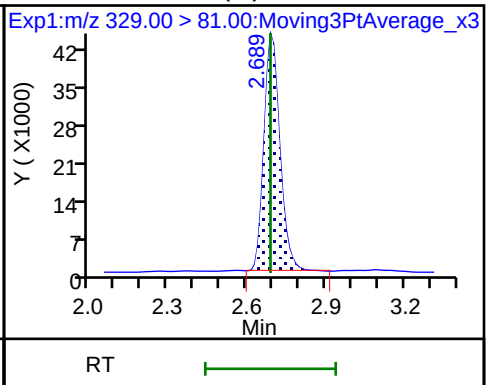
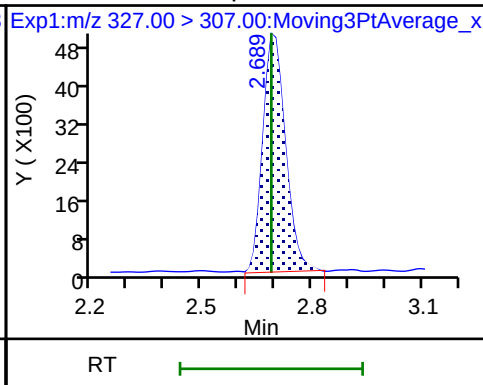
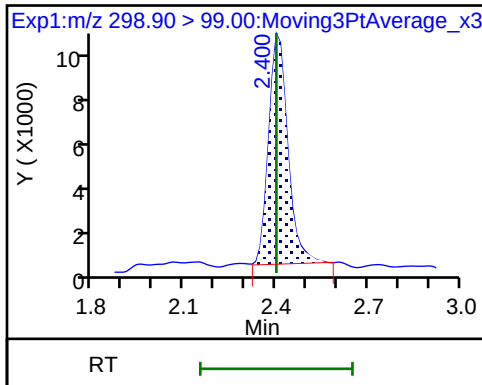
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

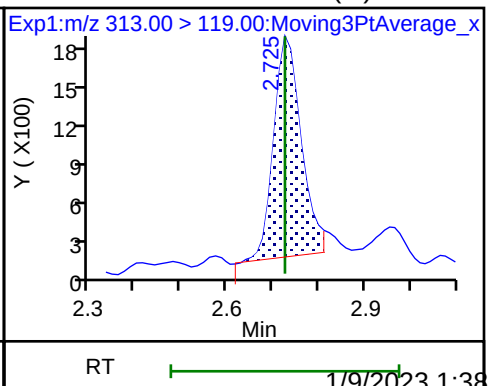
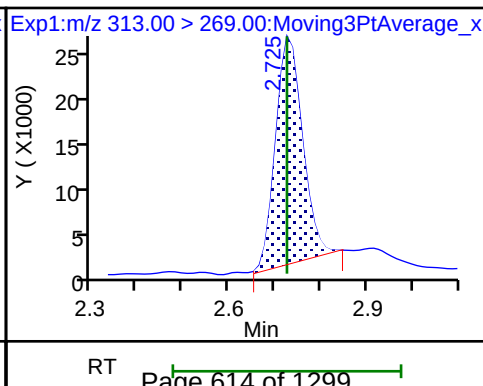
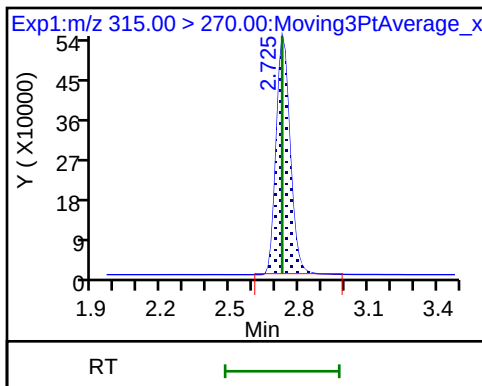
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

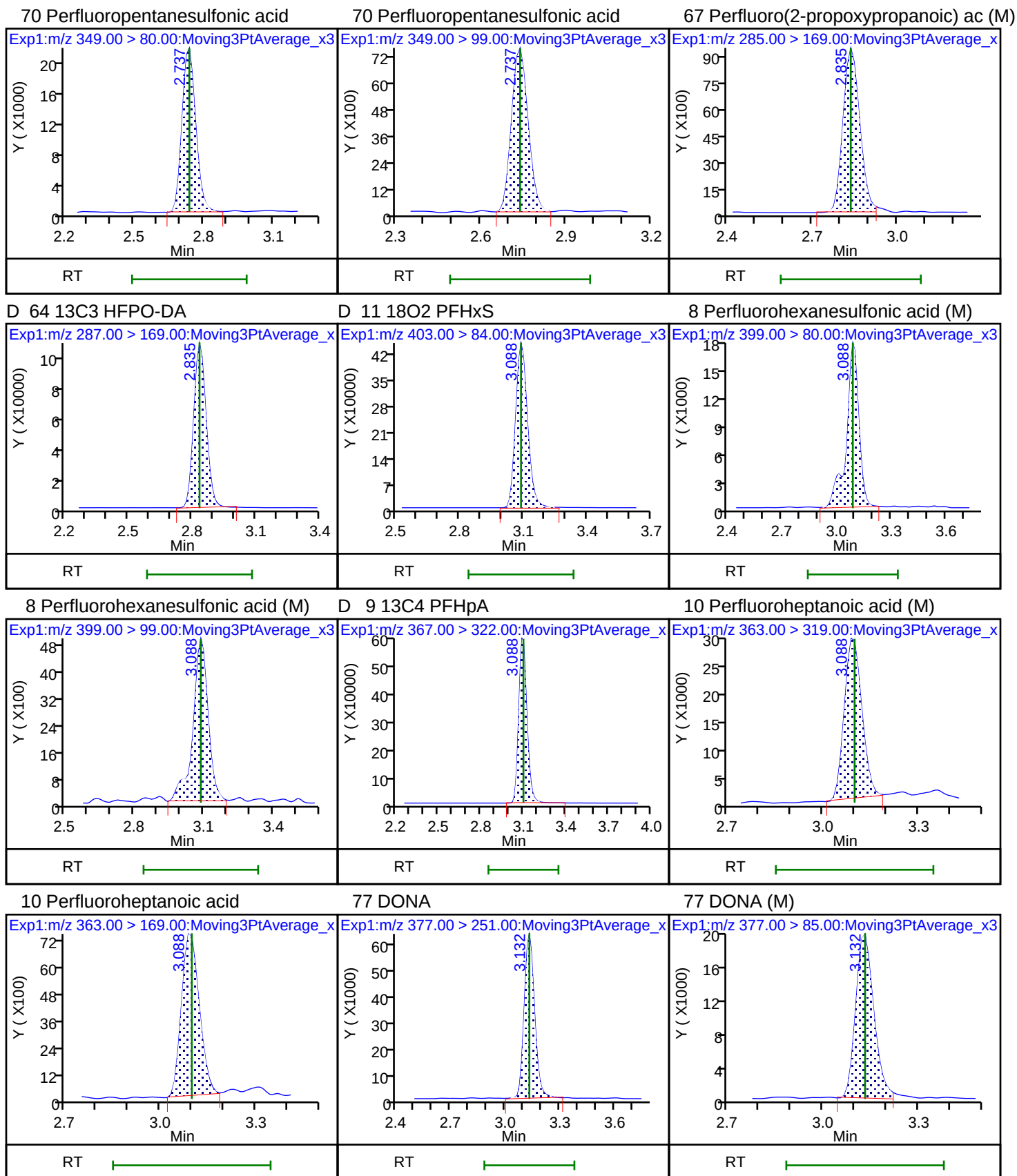


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

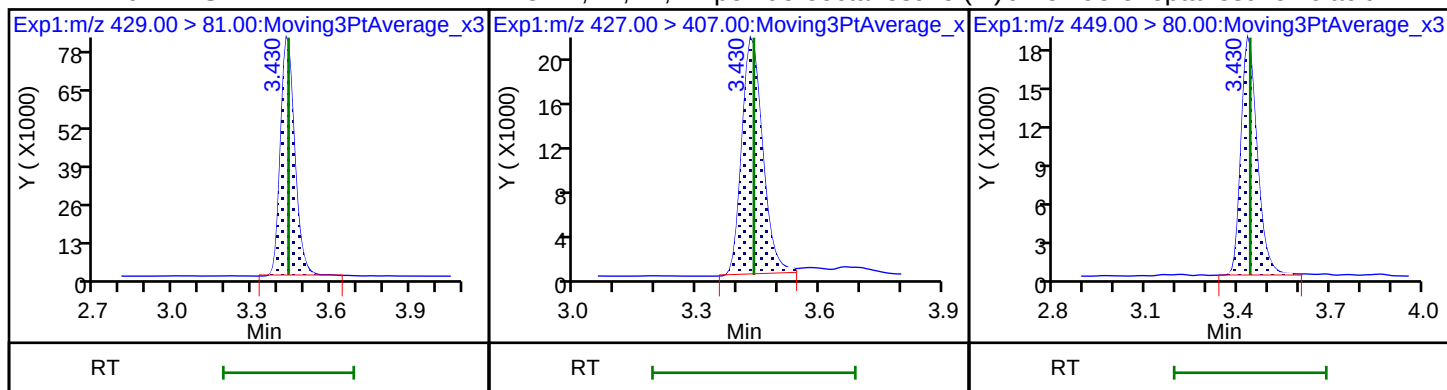
6 Perfluorohexanoic acid (M)





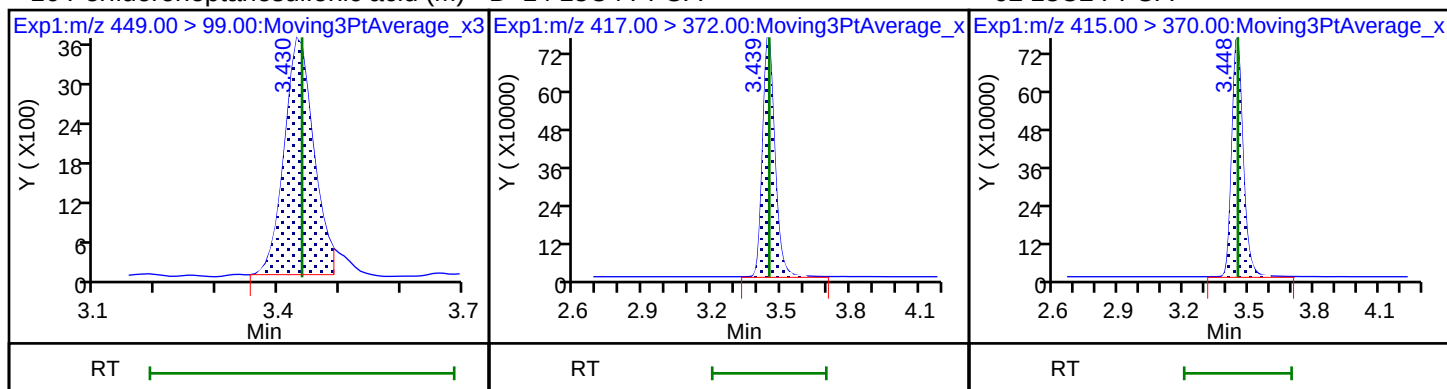
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

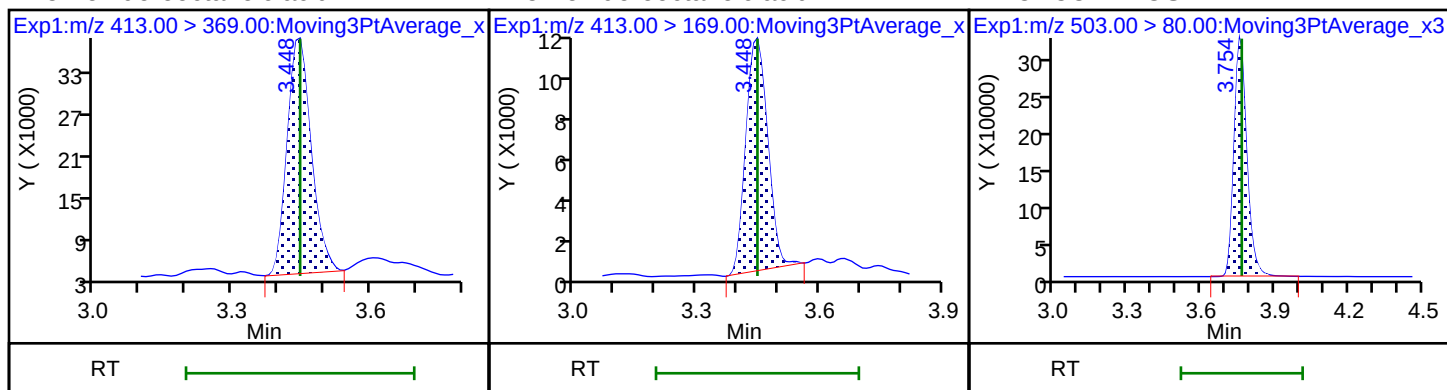
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

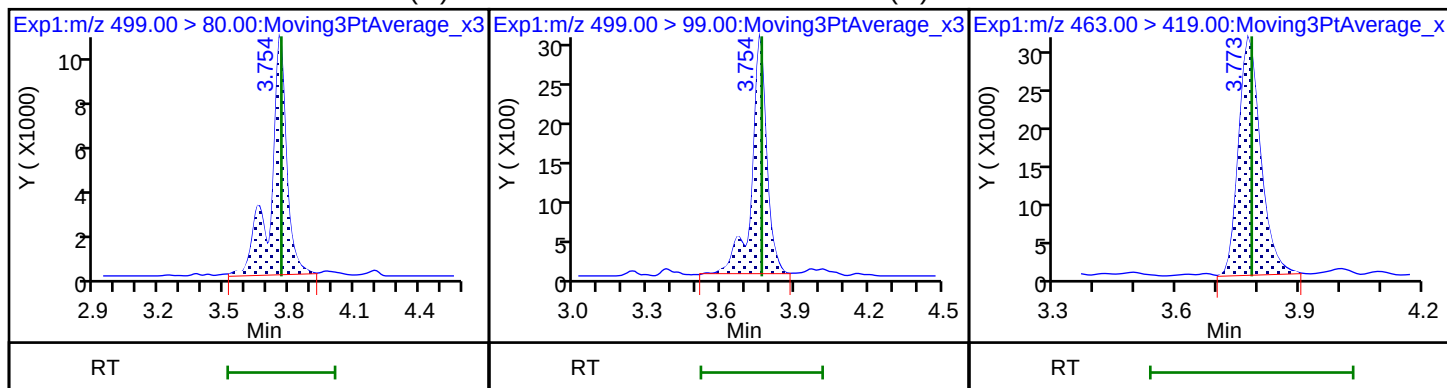
D 18 13C4 PFOS

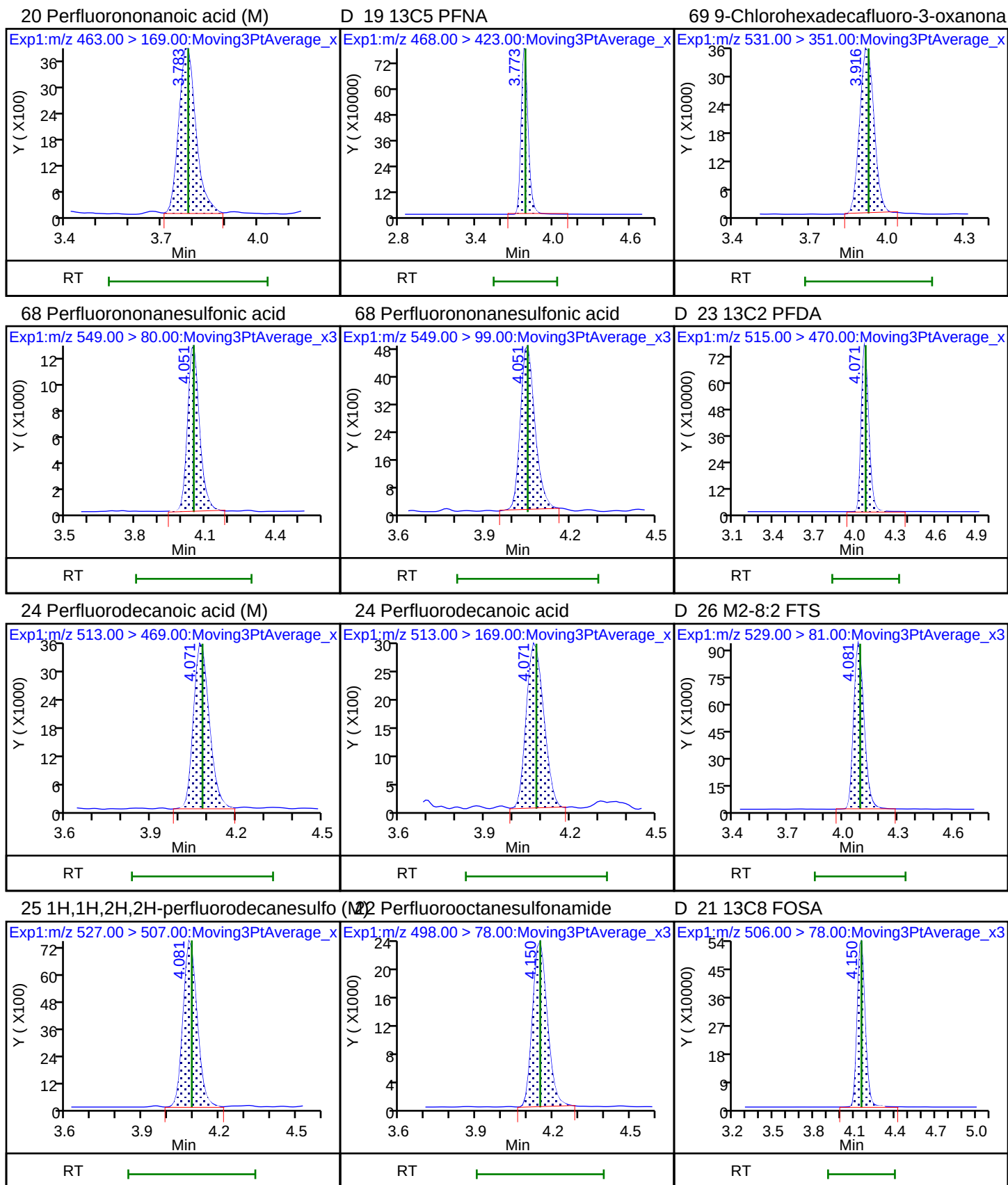


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

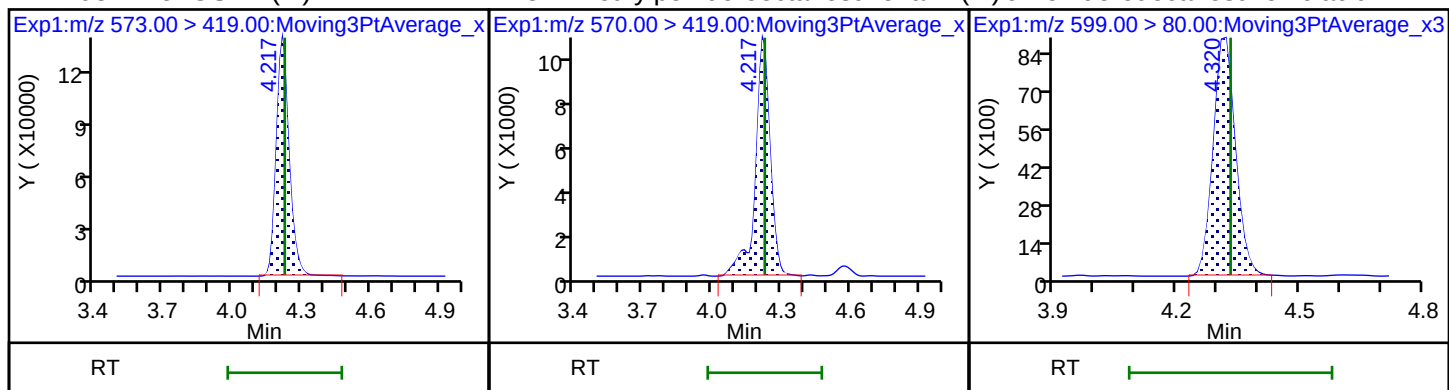




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

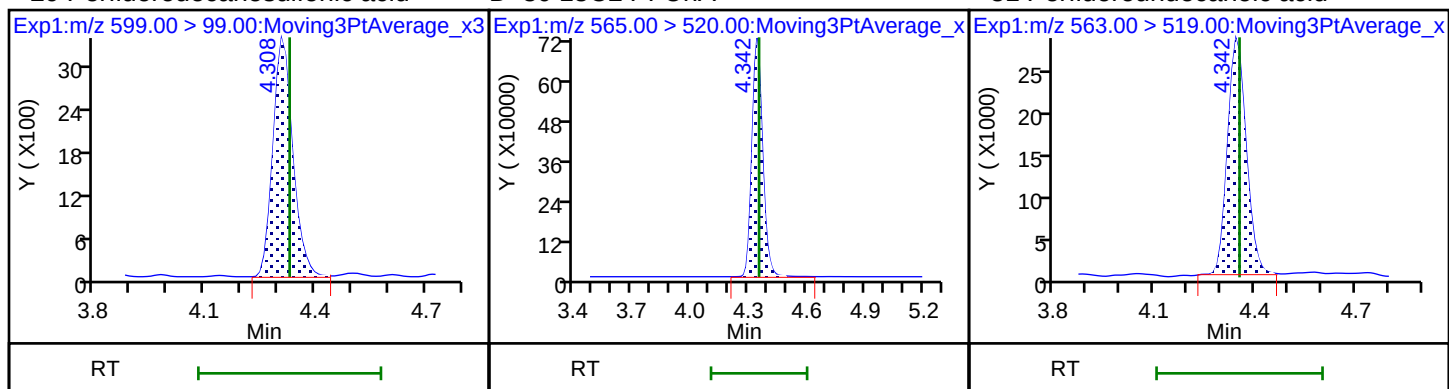
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

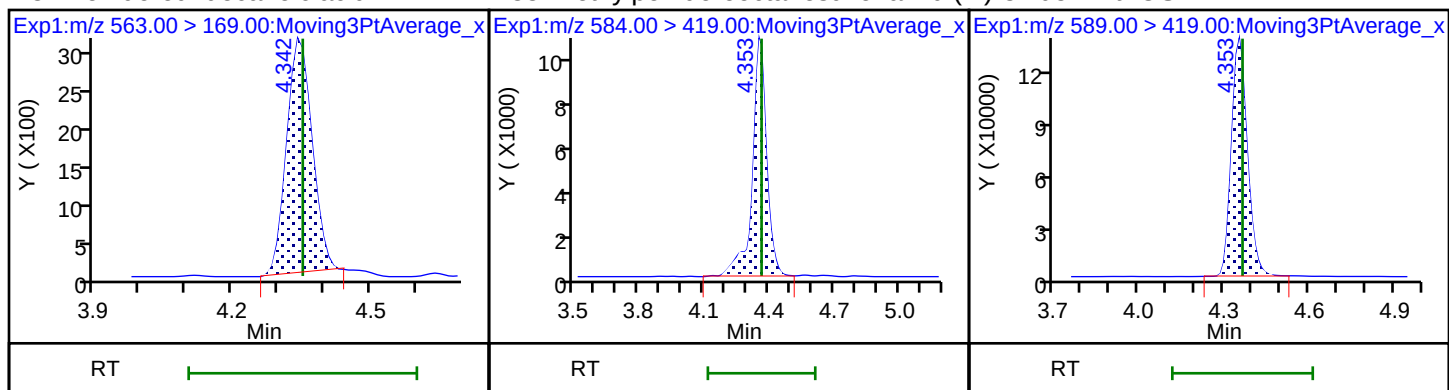
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

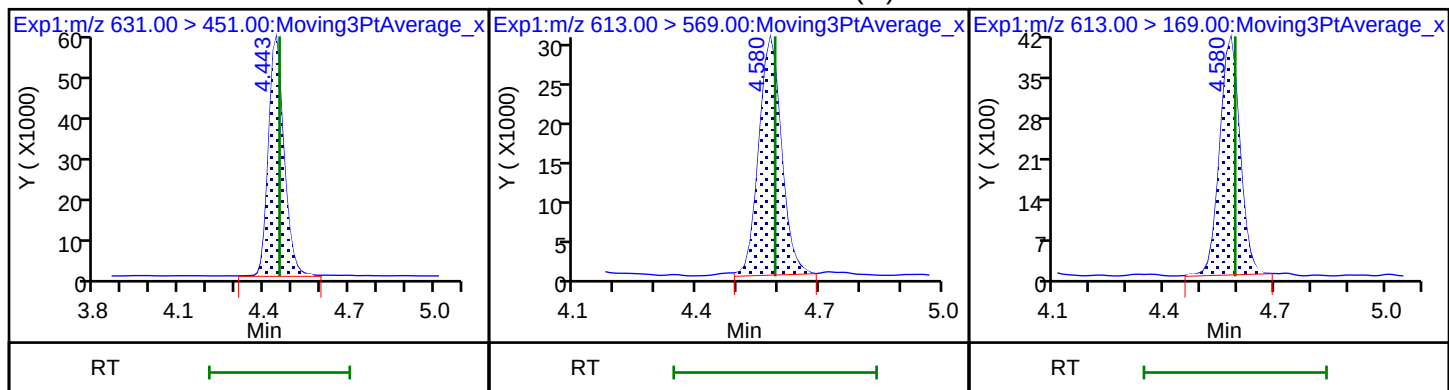
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

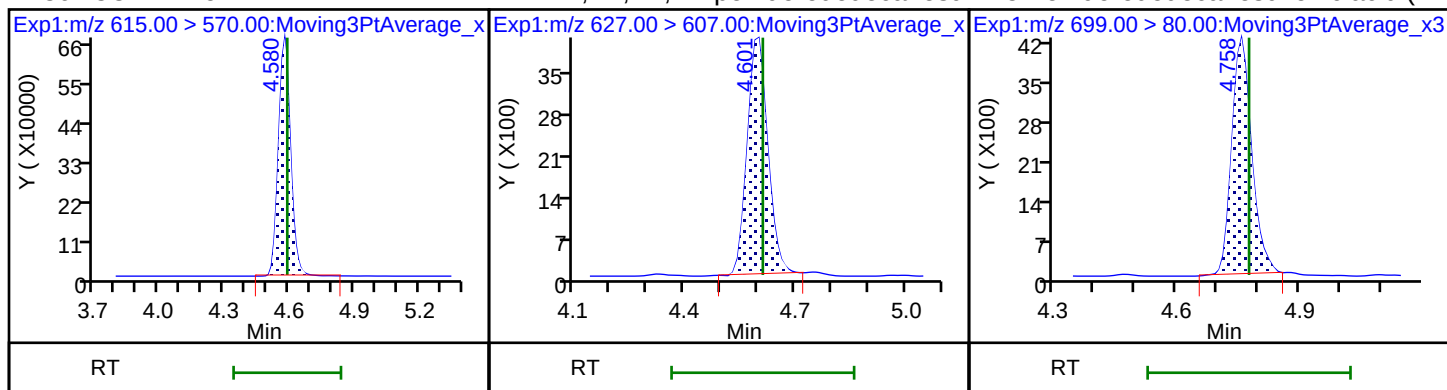
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

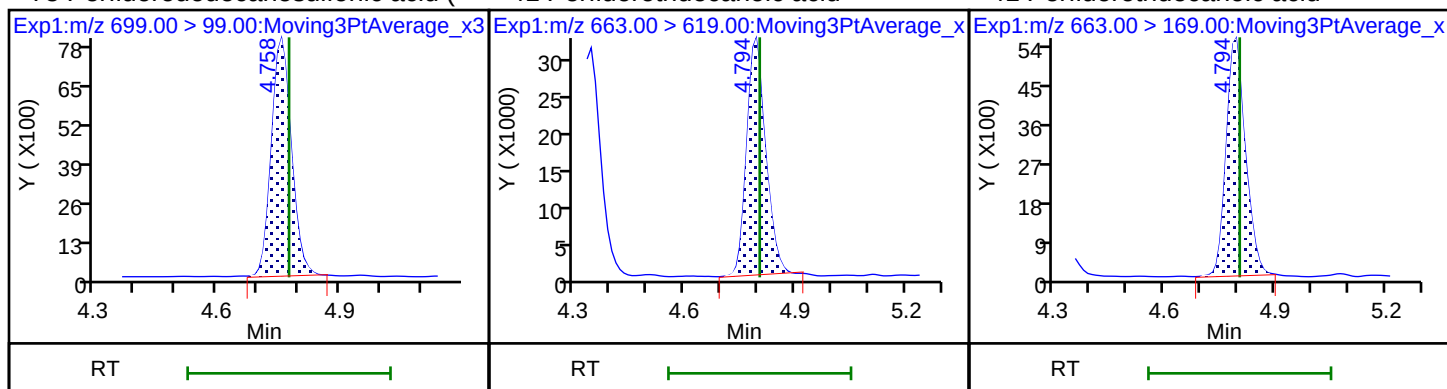
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

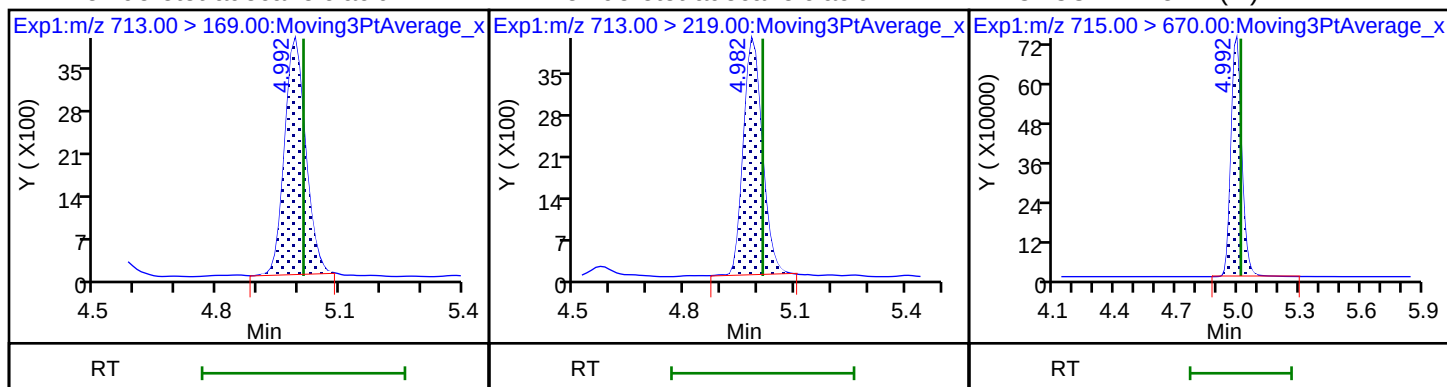
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

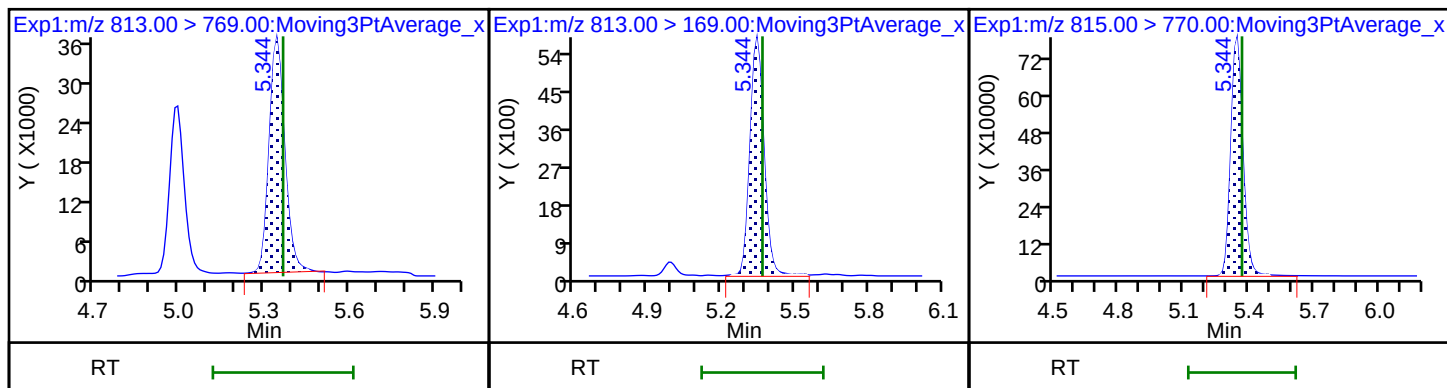
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid

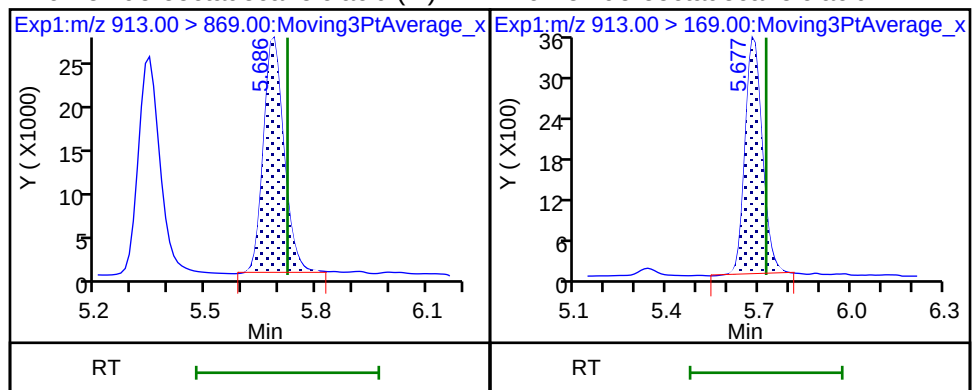
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

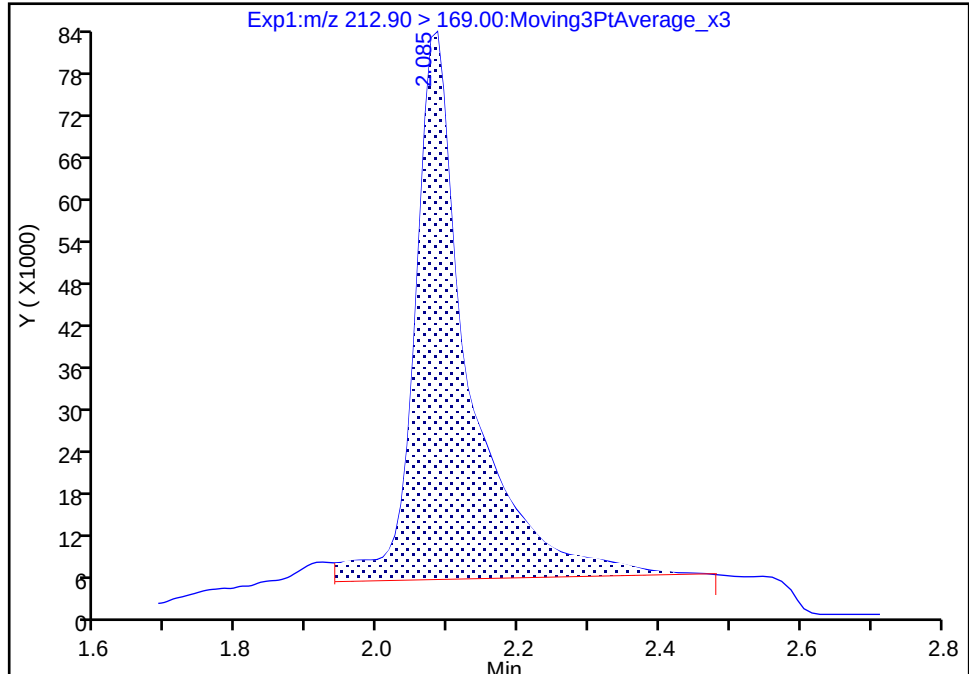
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

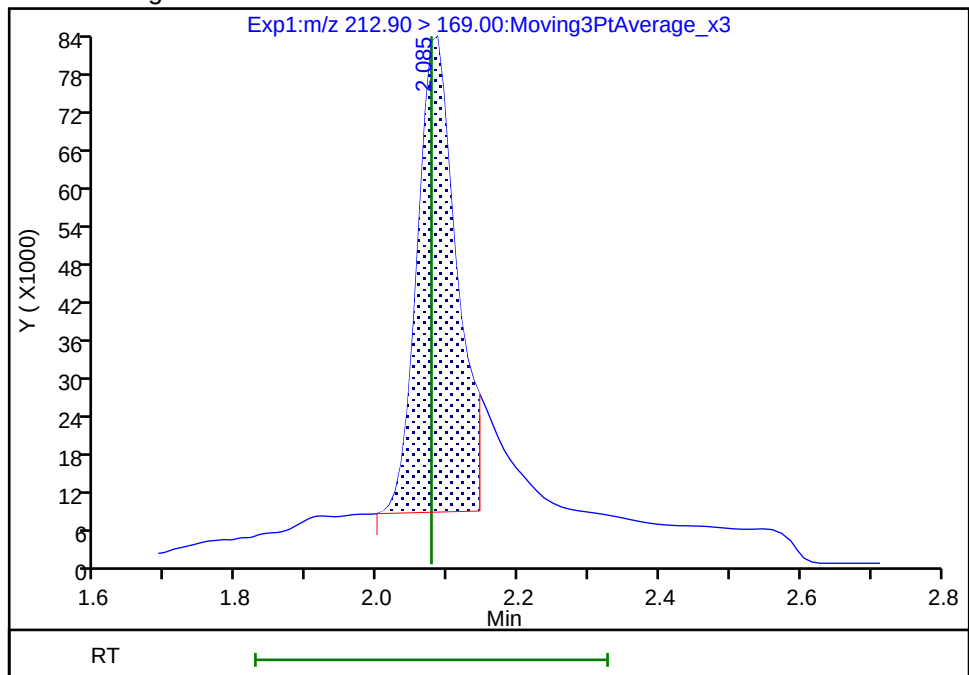
RT: 2.08
Area: 416017
Amount: 0.187773
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 291328
Amount: 0.131493
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:20:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

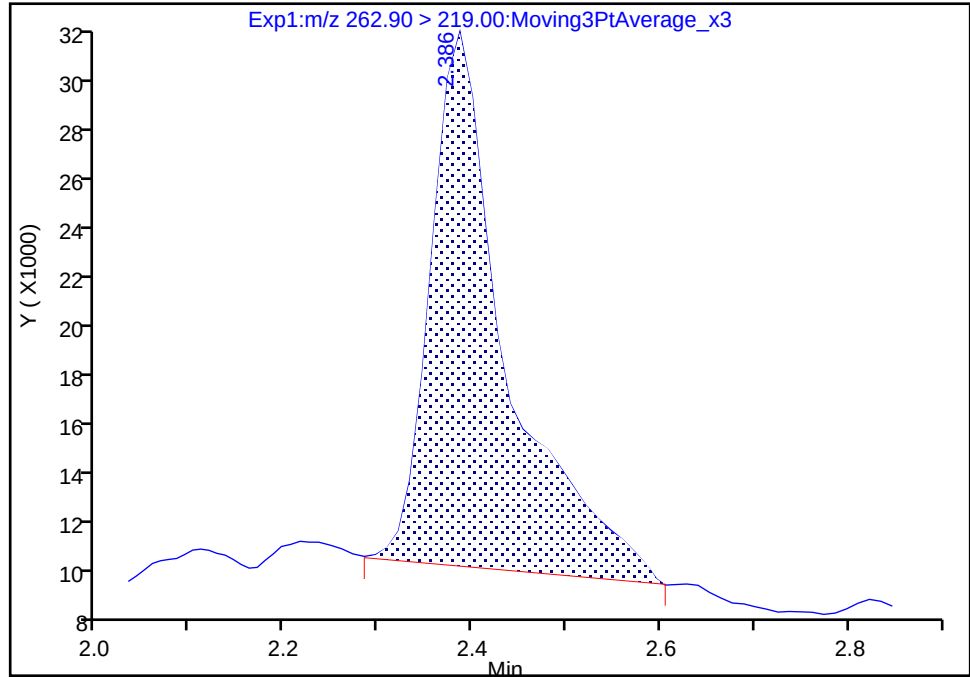
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

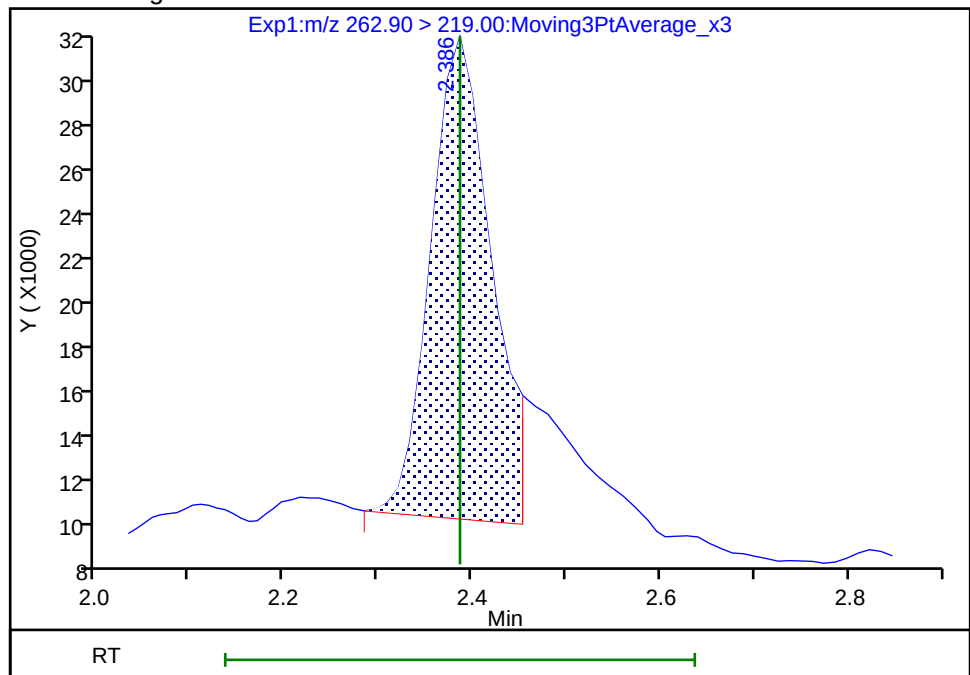
RT: 2.39
Area: 119003
Amount: 0.064417
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 93667
Amount: 0.050702
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:21:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

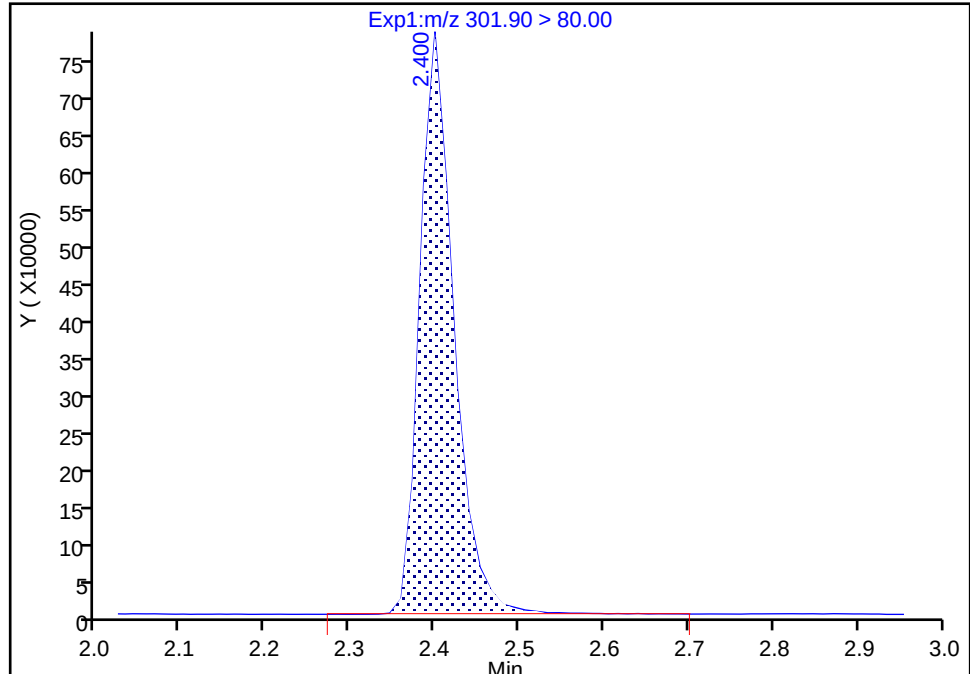
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Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

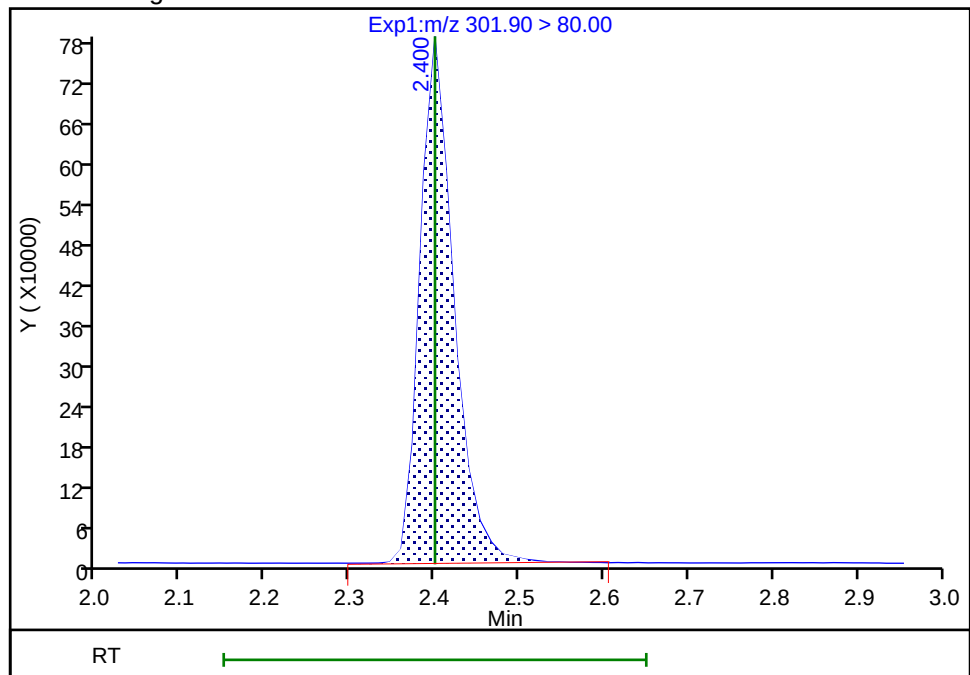
RT: 2.40
Area: 2181645
Amount: 1.063352
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2175507
Amount: 1.060360
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:19:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

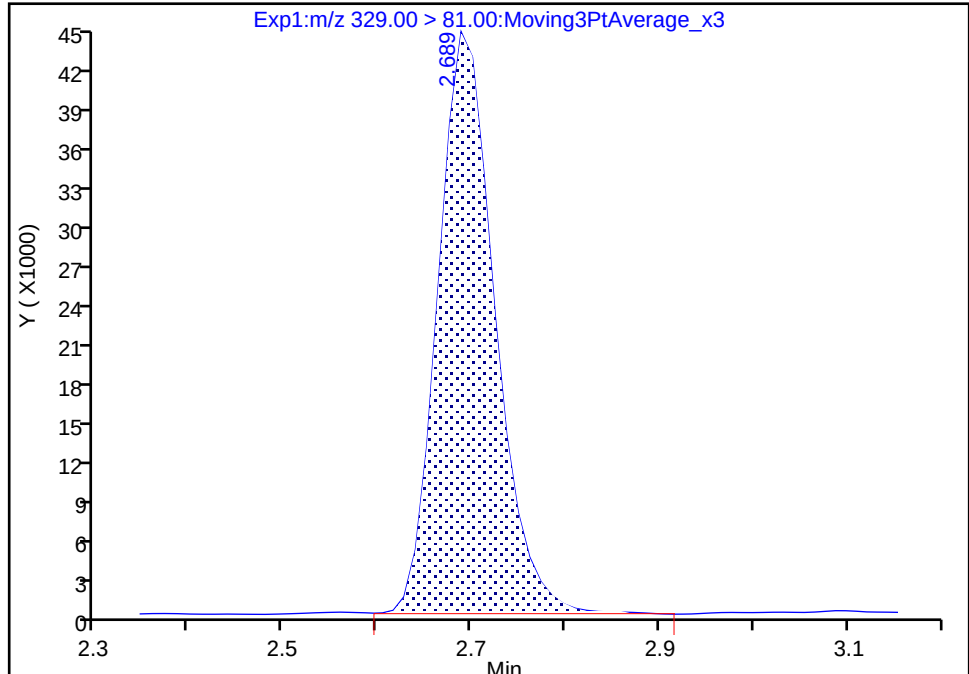
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

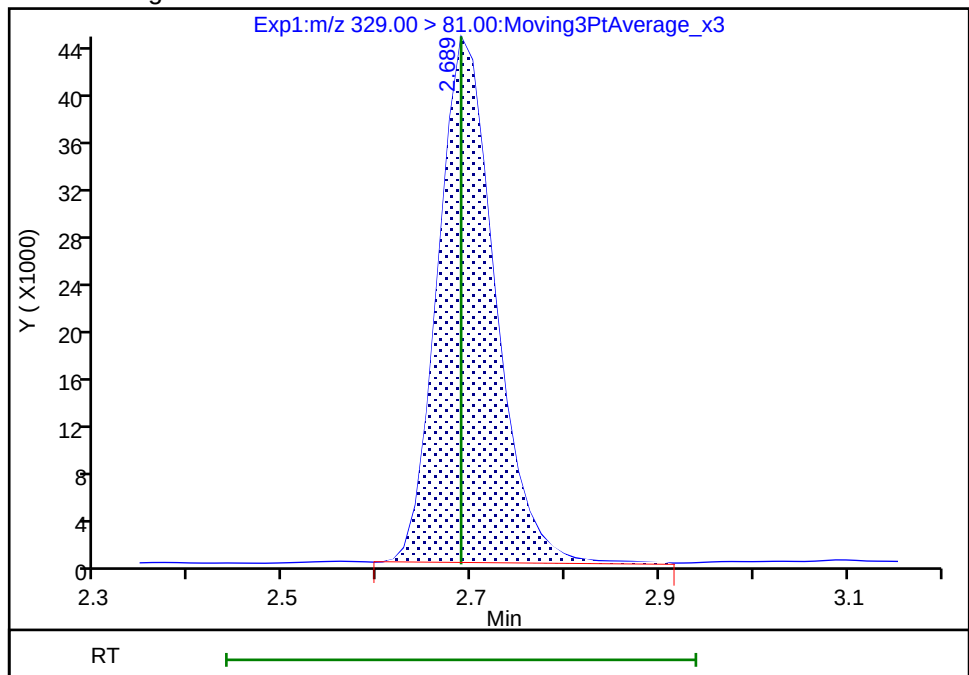
RT: 2.69
Area: 189289
Amount: 1.044124
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 188685
Amount: 1.040792
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:19:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

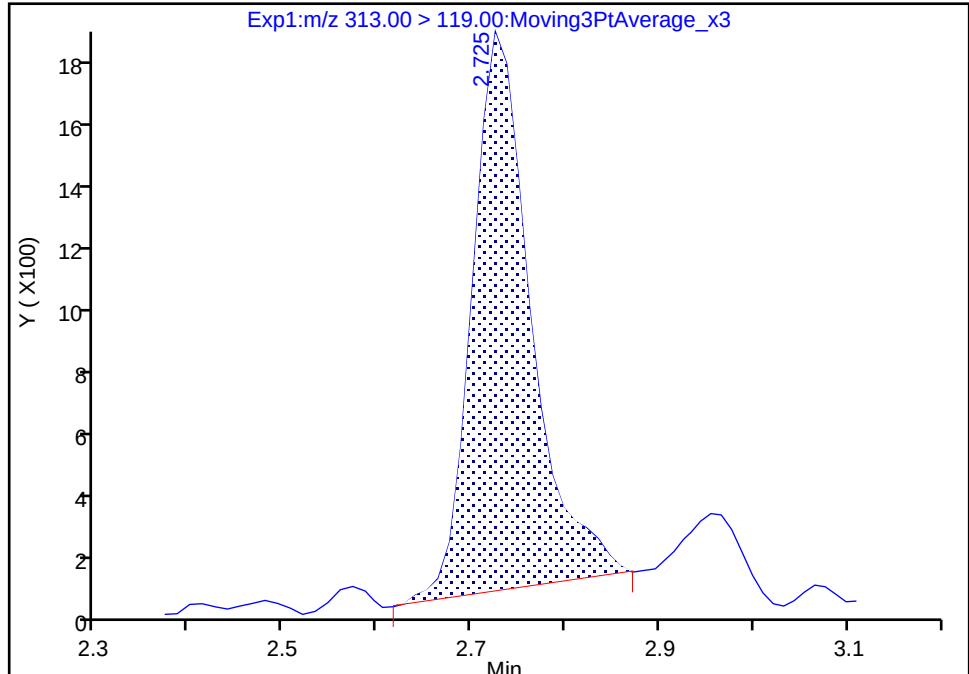
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

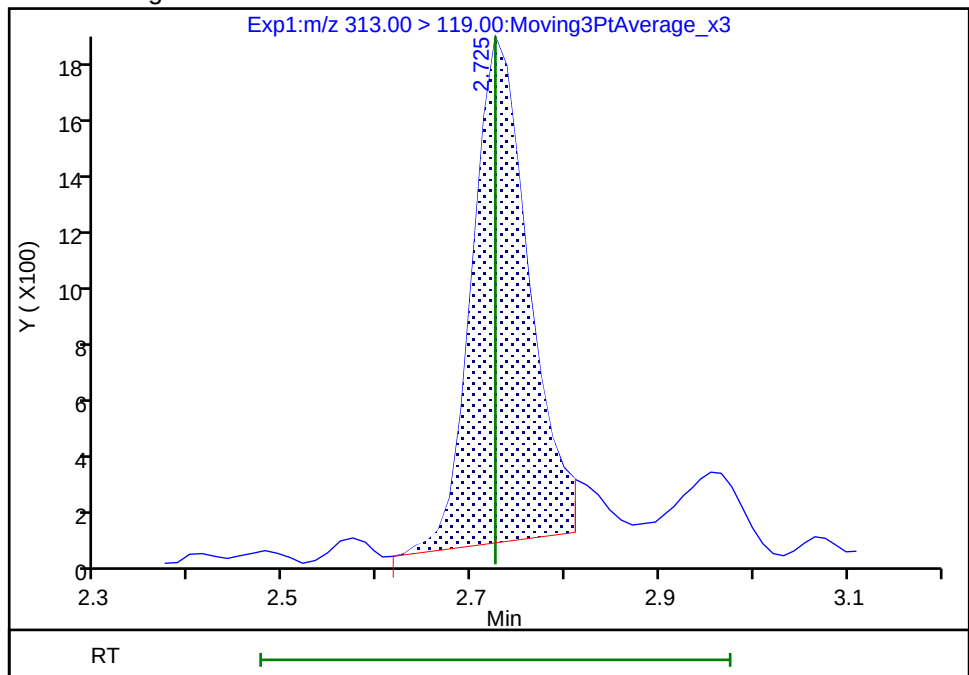
RT: 2.73
Area: 7360
Amount: 0.050180
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 7039
Amount: 0.050180
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:21:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

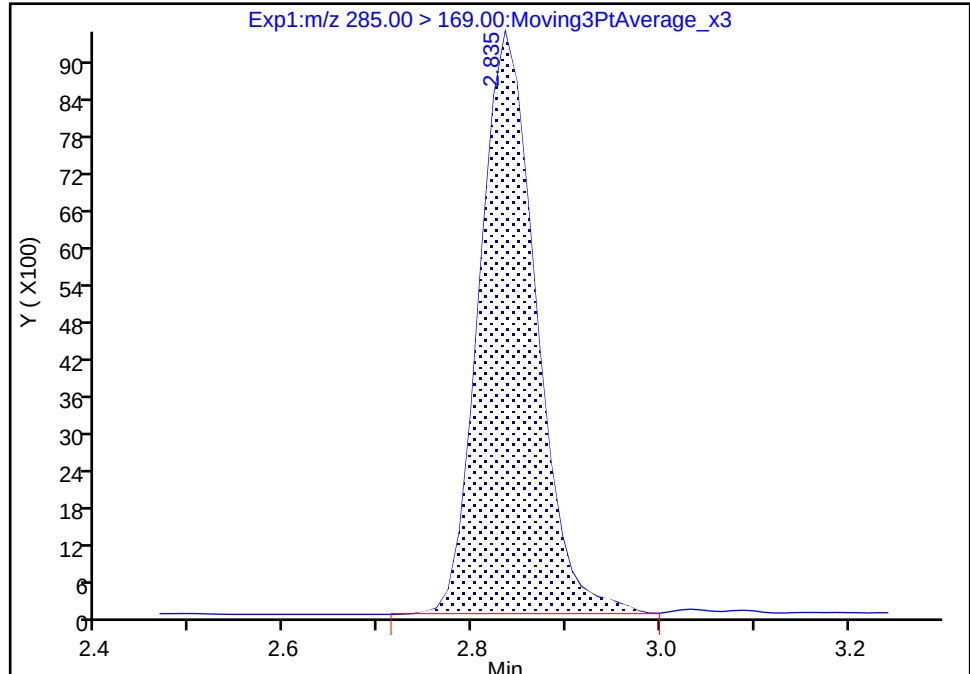
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

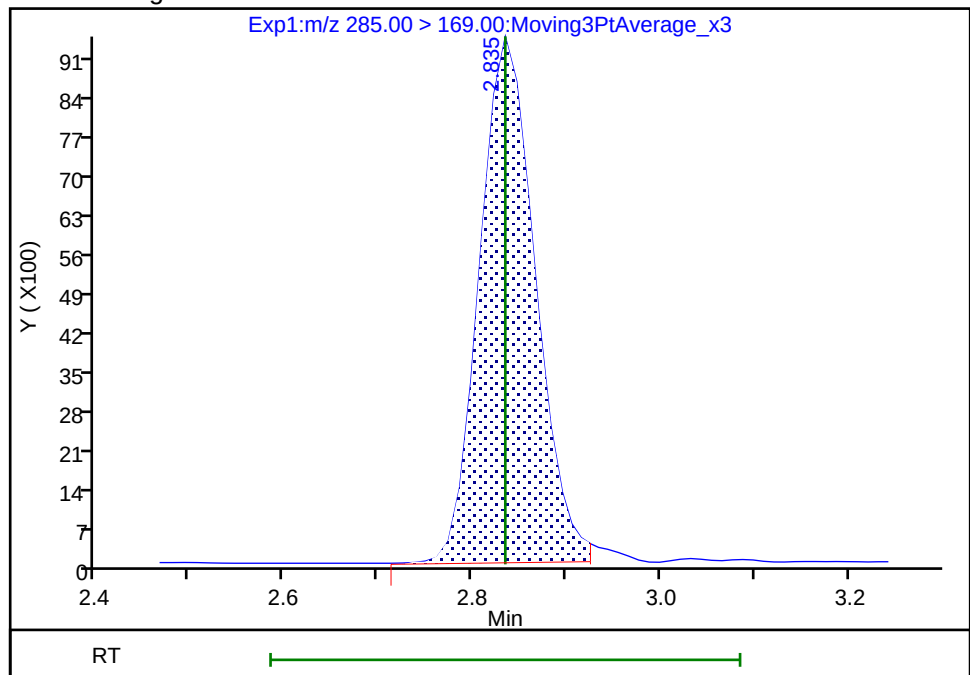
RT: 2.83
Area: 39818
Amount: 0.115235
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 39197
Amount: 0.113438
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 05-Jan-2023 07:54:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

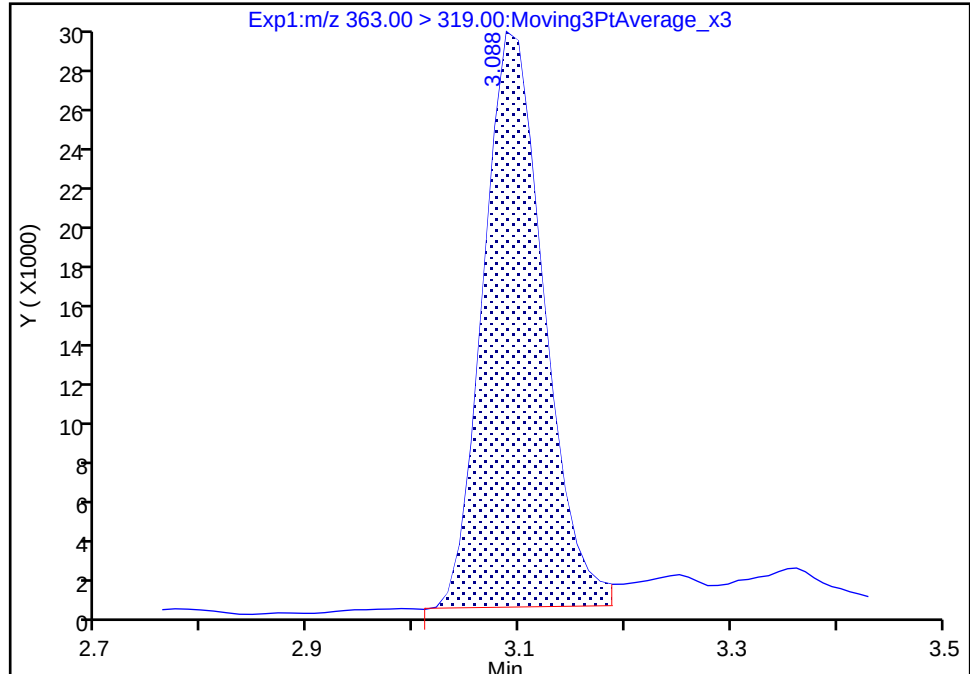
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

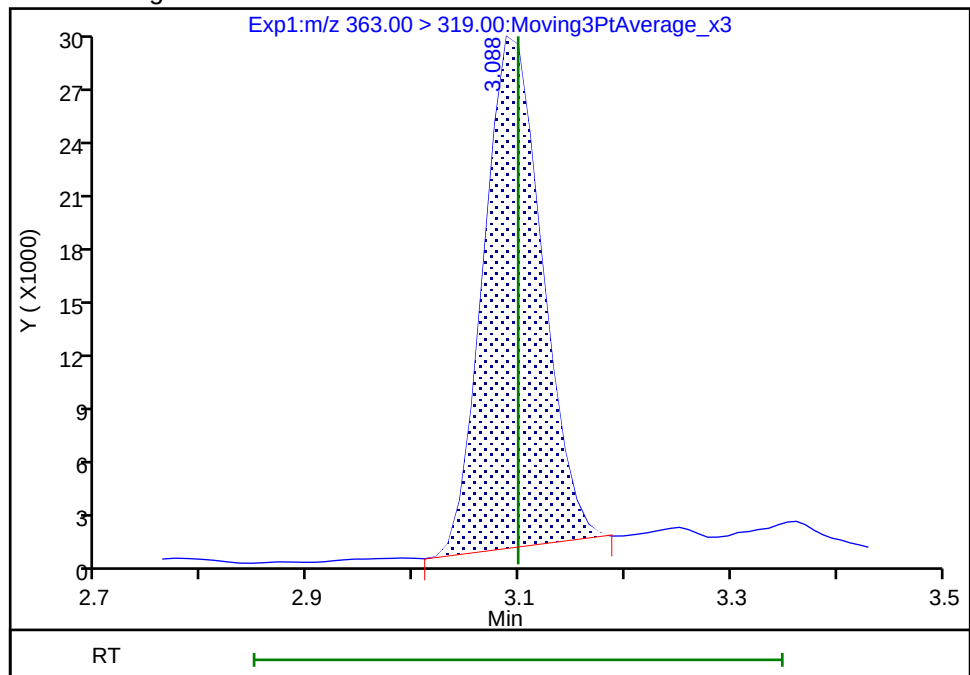
RT: 3.09
Area: 110678
Amount: 0.052132
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 105227
Amount: 0.049564
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:22:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

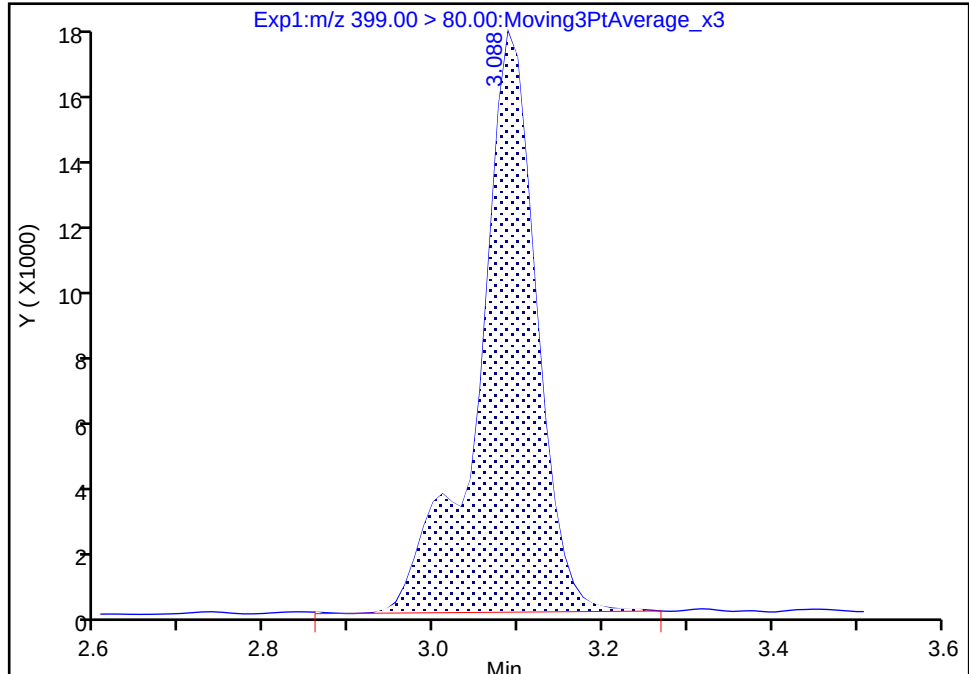
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

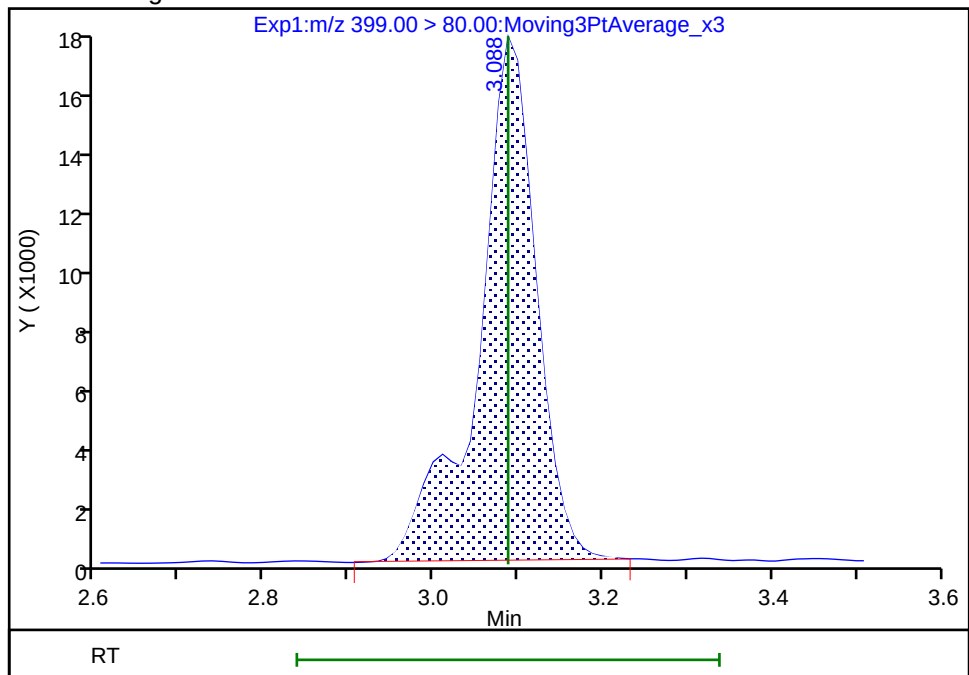
RT: 3.09
Area: 81219
Amount: 0.049645
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 80557
Amount: 0.049241
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:21:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

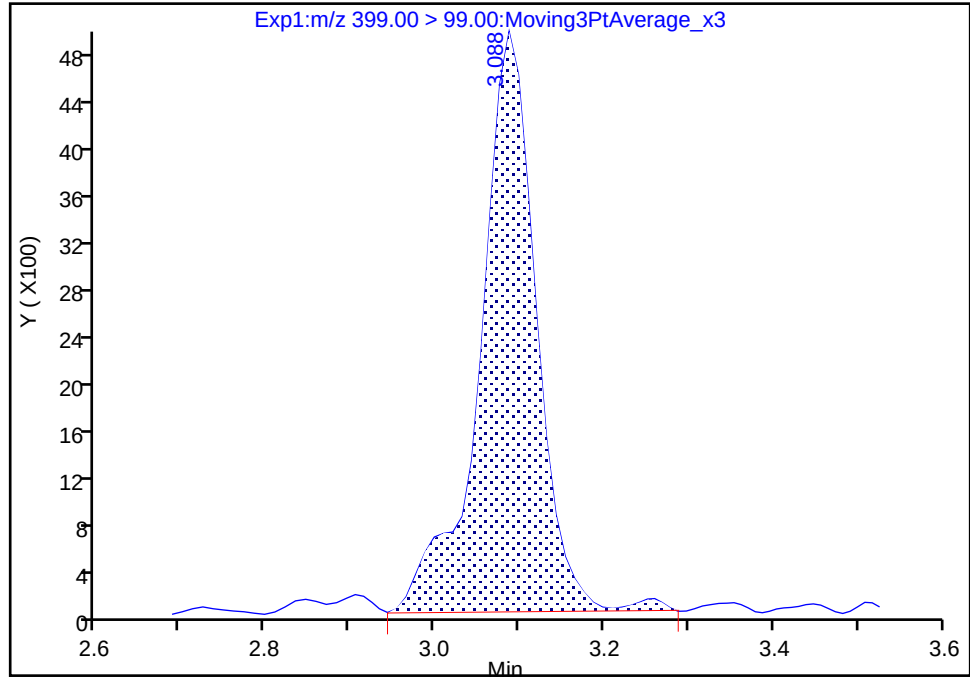
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

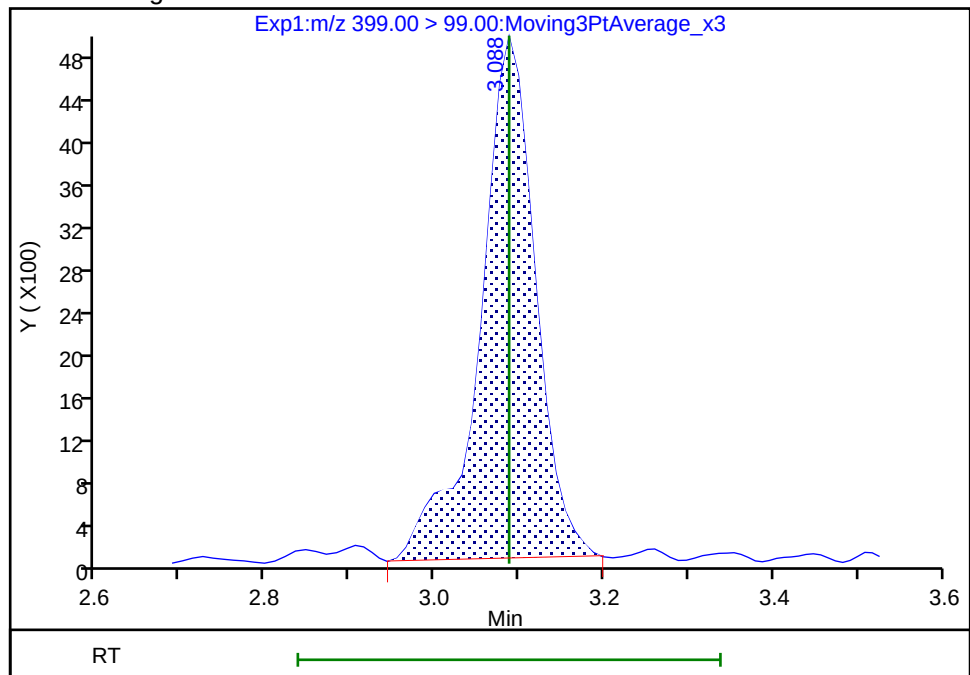
RT: 3.09
Area: 22344
Amount: 0.049645
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 21768
Amount: 0.049241
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:21:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

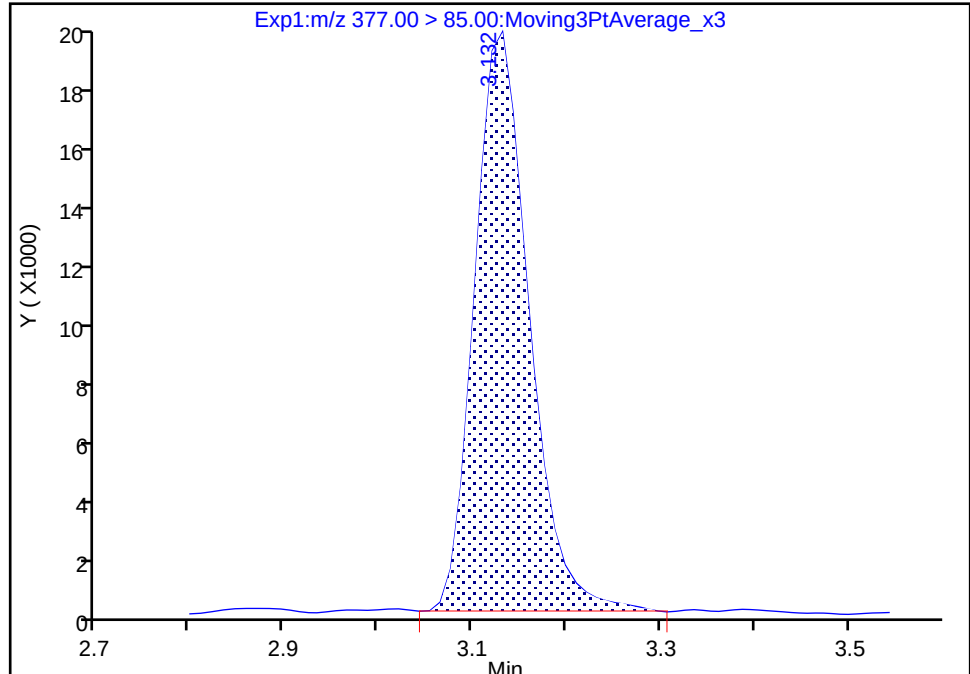
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

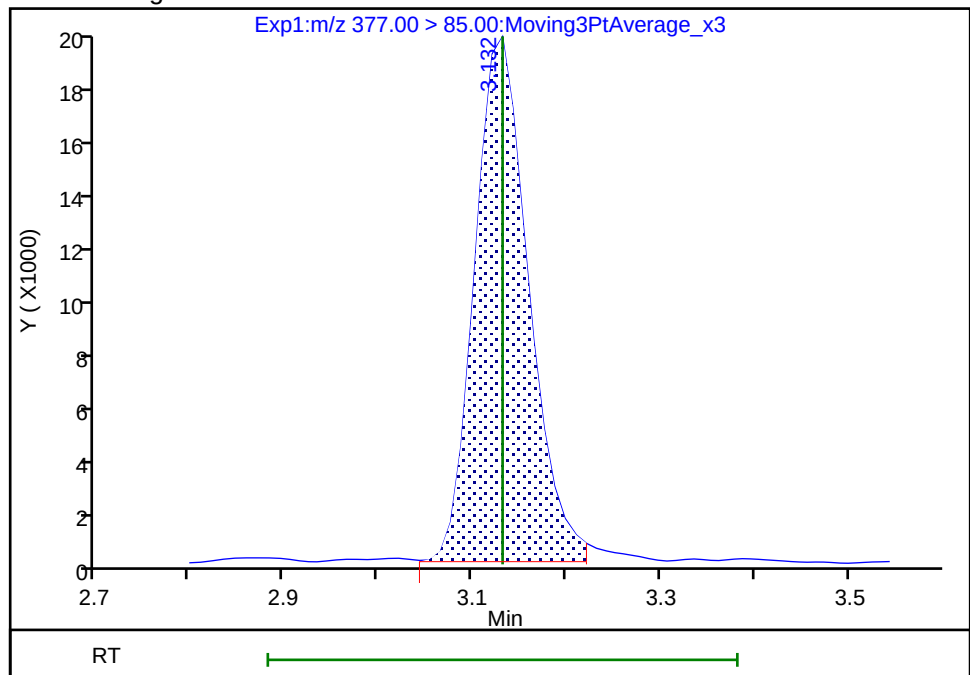
RT: 3.13
Area: 77225
Amount: 0.046380
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 75945
Amount: 0.046380
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 05-Jan-2023 07:54:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

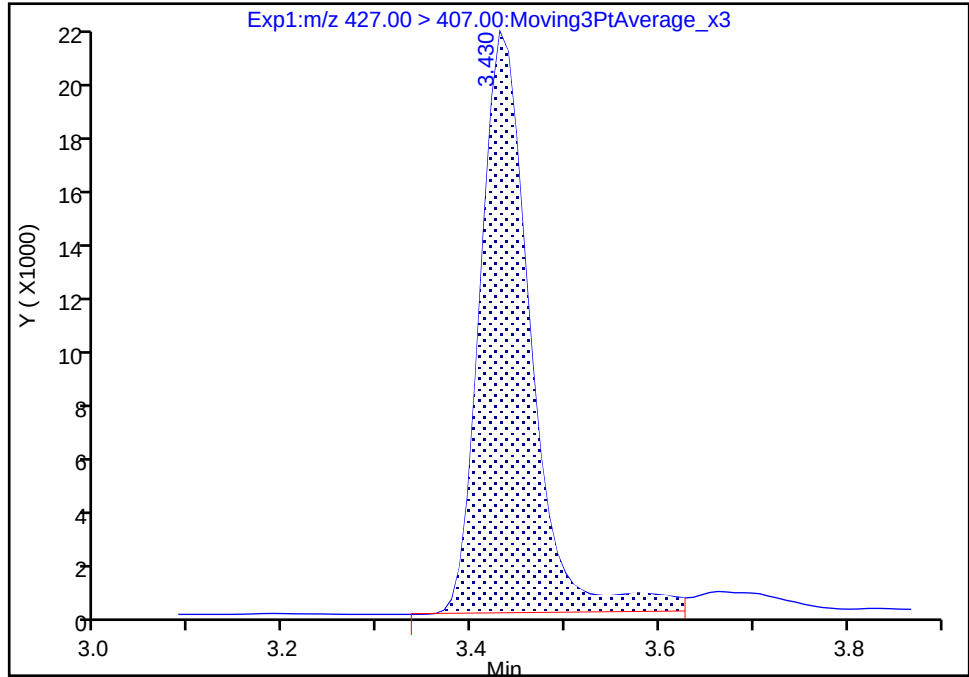
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

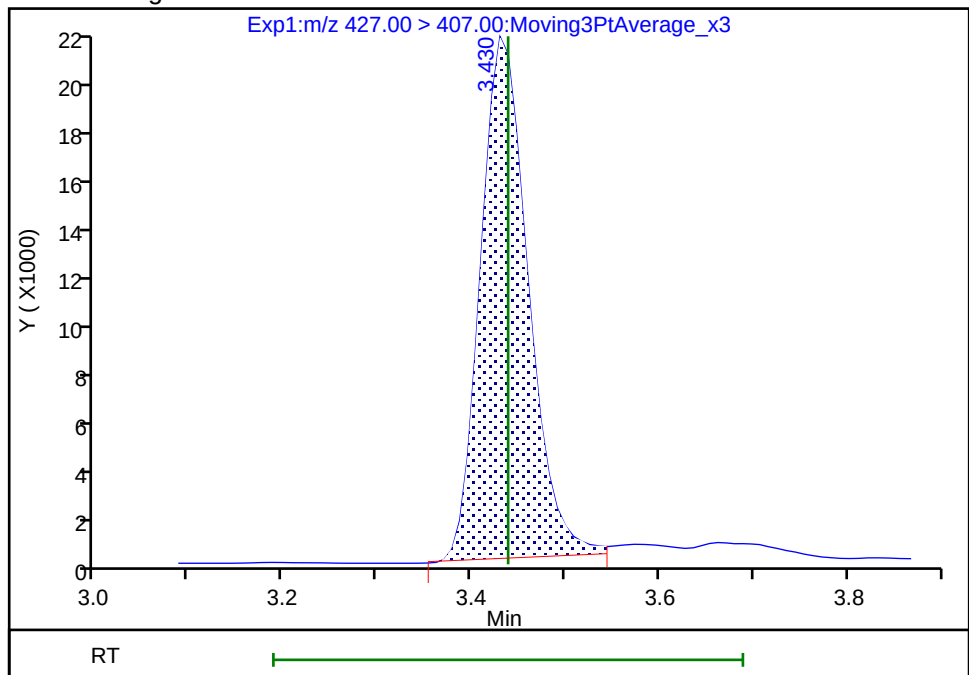
RT: 3.43
Area: 78700
Amount: 0.130684
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 73539
Amount: 0.121335
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:22:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

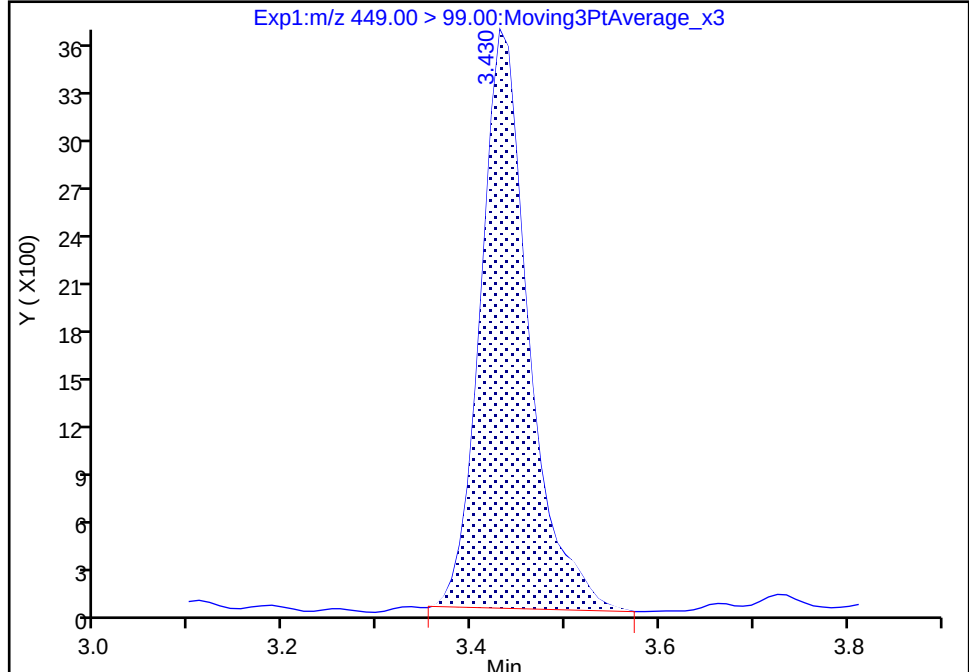
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

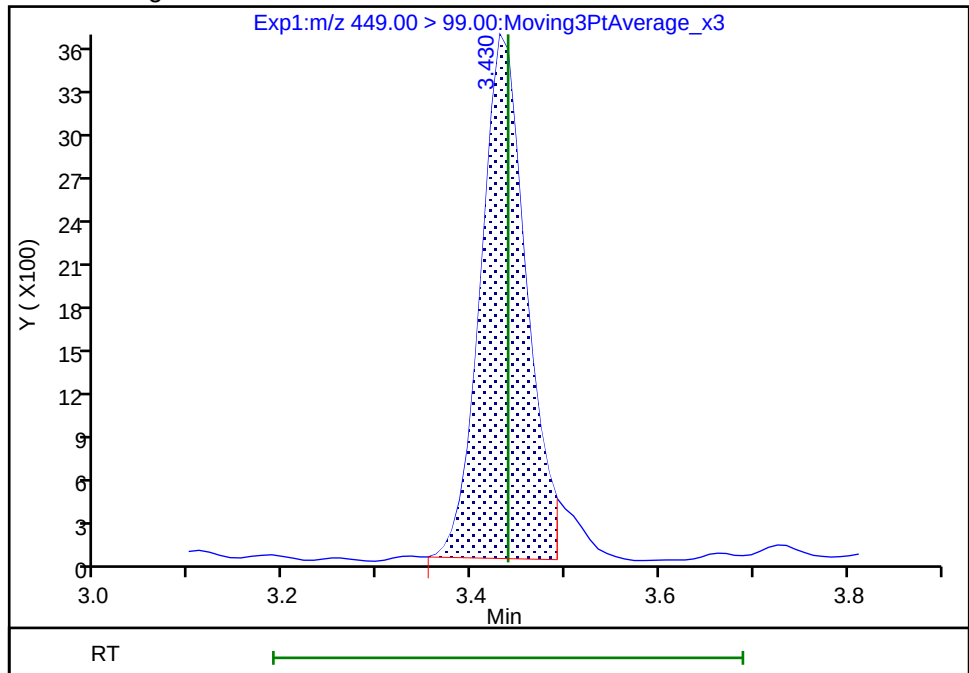
RT: 3.43
Area: 12946
Amount: 0.048951
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 12214
Amount: 0.048951
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:22:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

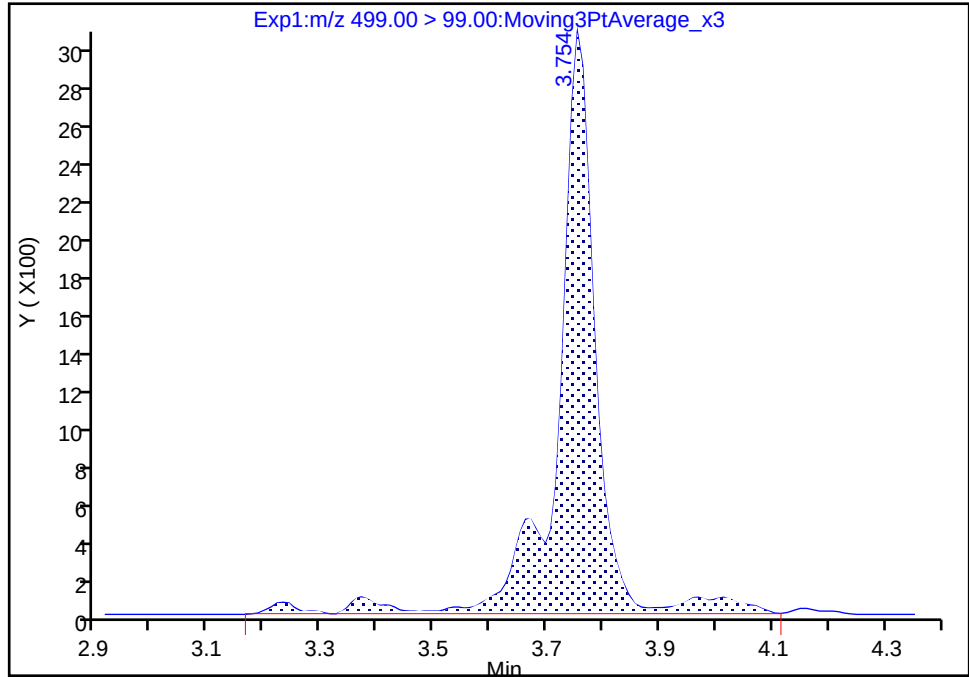
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Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

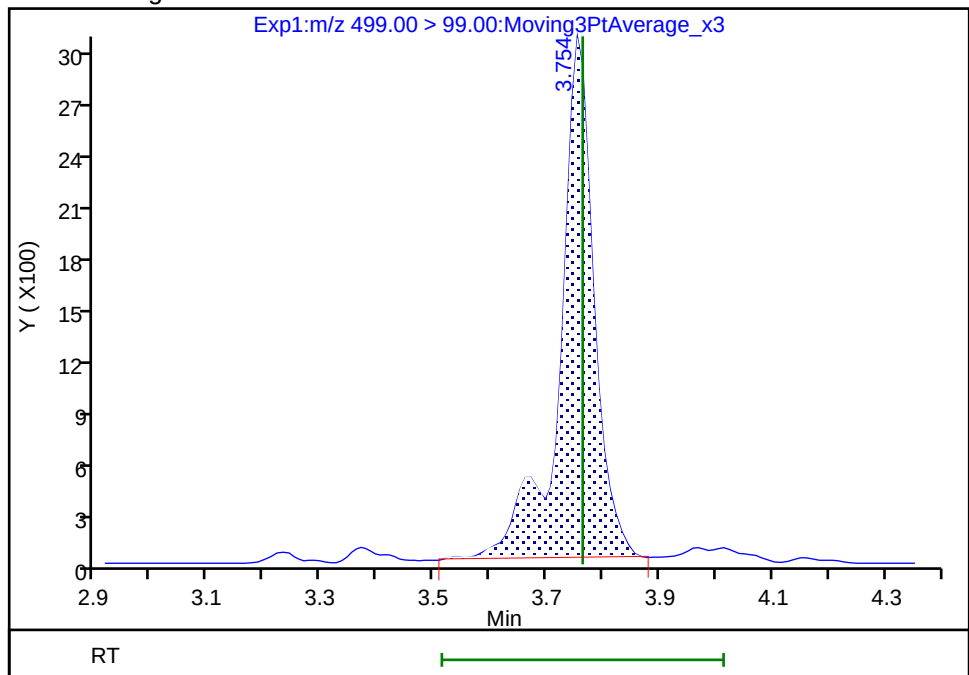
RT: 3.75
Area: 14608
Amount: 0.050057
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 12781
Amount: 0.045894
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:22:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

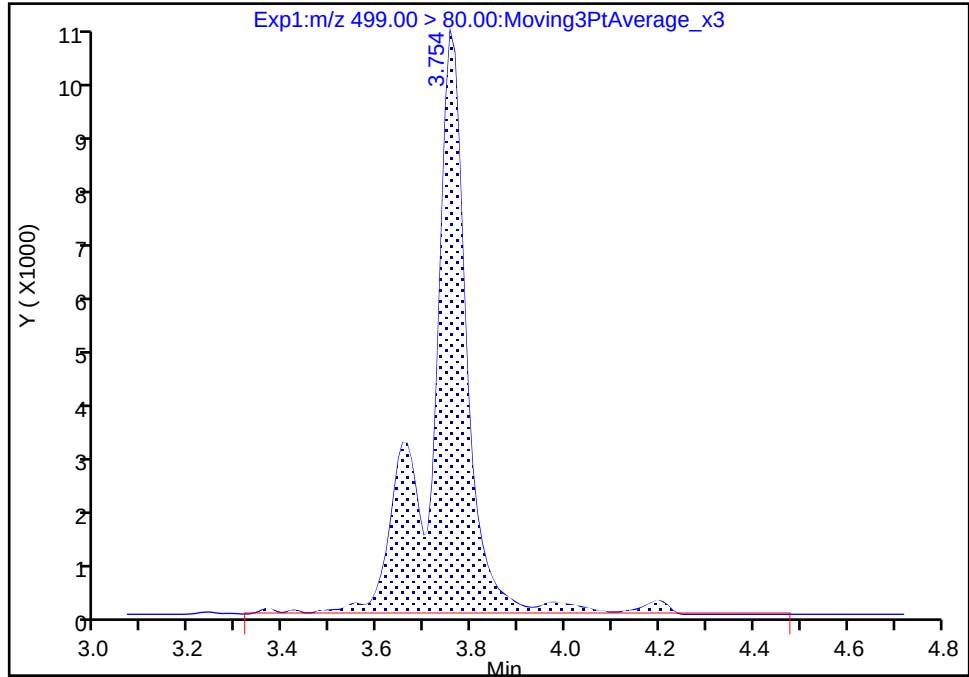
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

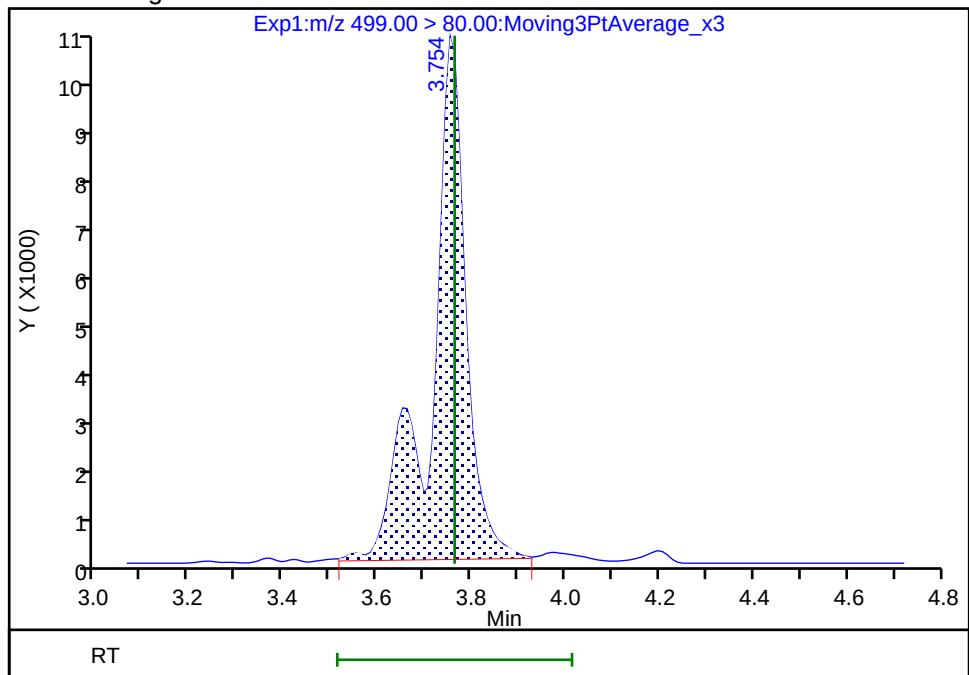
RT: 3.75
Area: 60020
Amount: 0.050057
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 55028
Amount: 0.045894
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:22:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

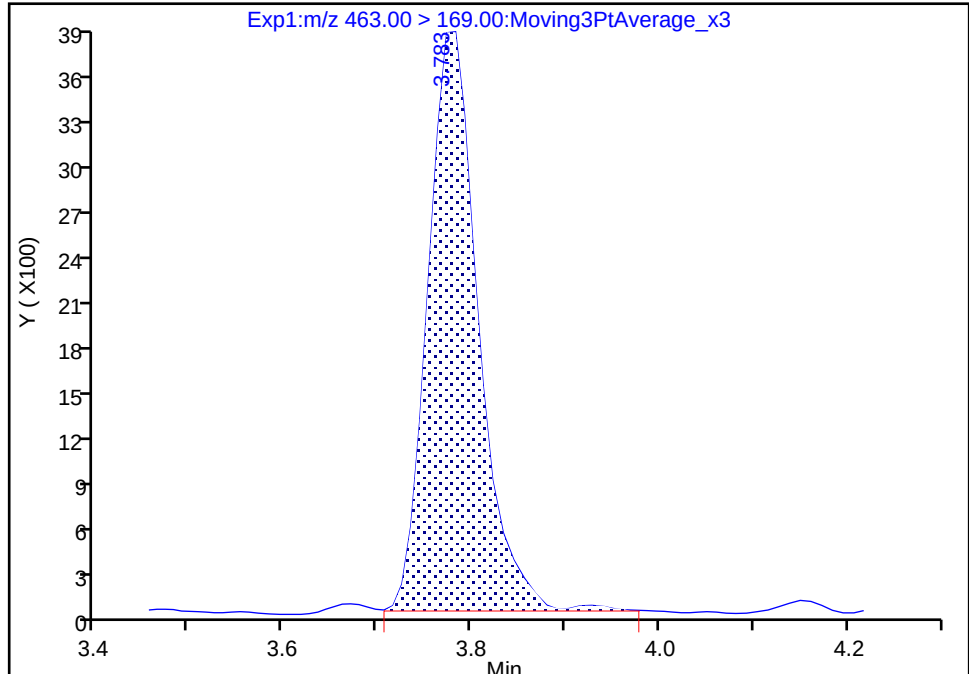
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

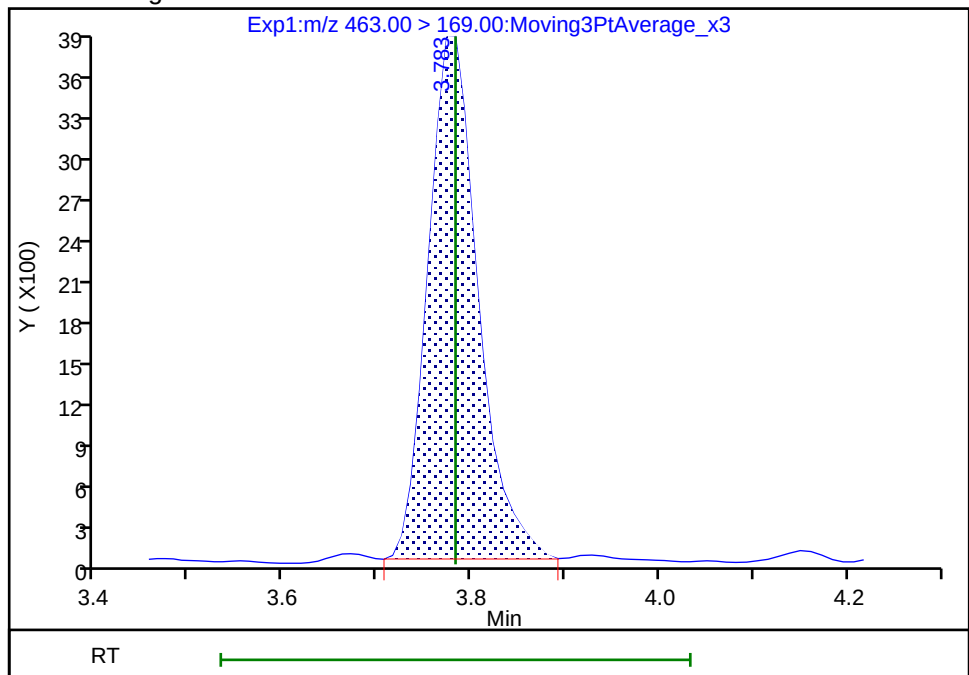
RT: 3.78
Area: 14336
Amount: 0.047830
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 14250
Amount: 0.047830
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:22:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

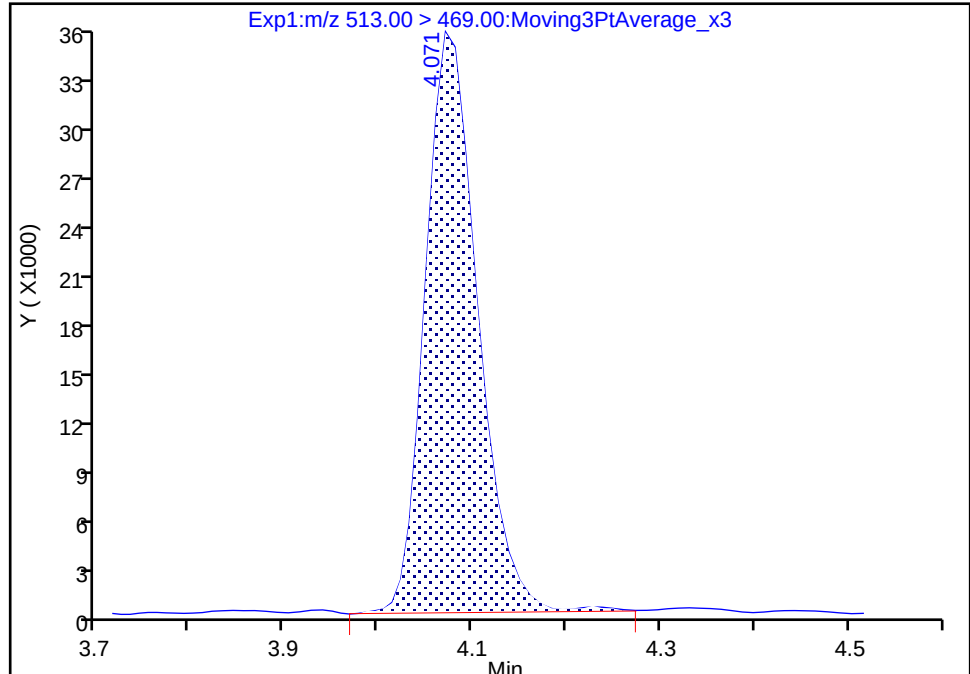
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

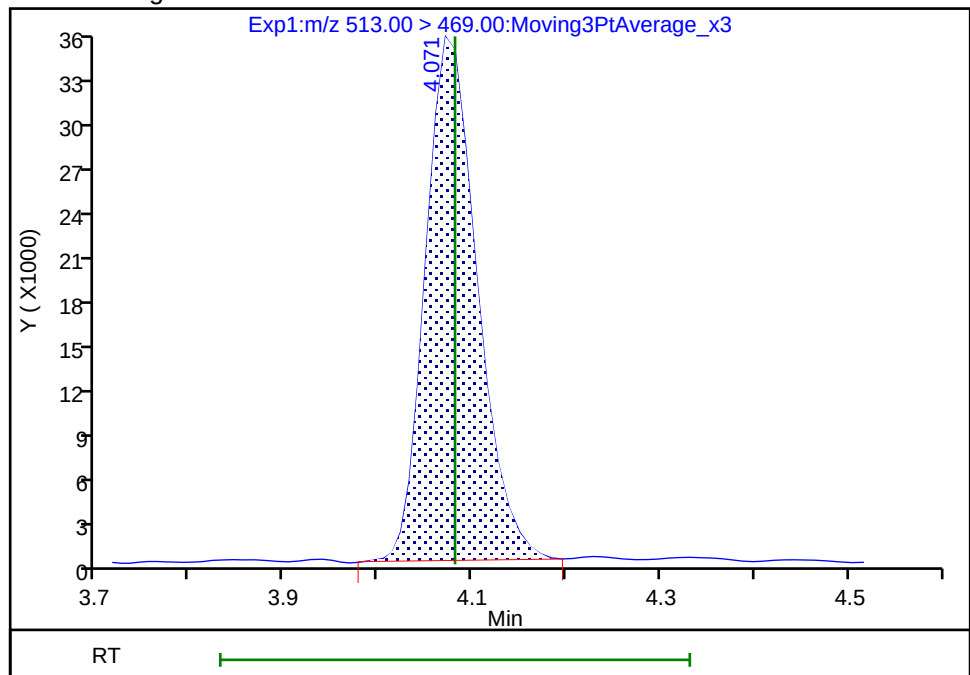
RT: 4.07
Area: 134909
Amount: 0.052984
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 133367
Amount: 0.052379
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:23:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

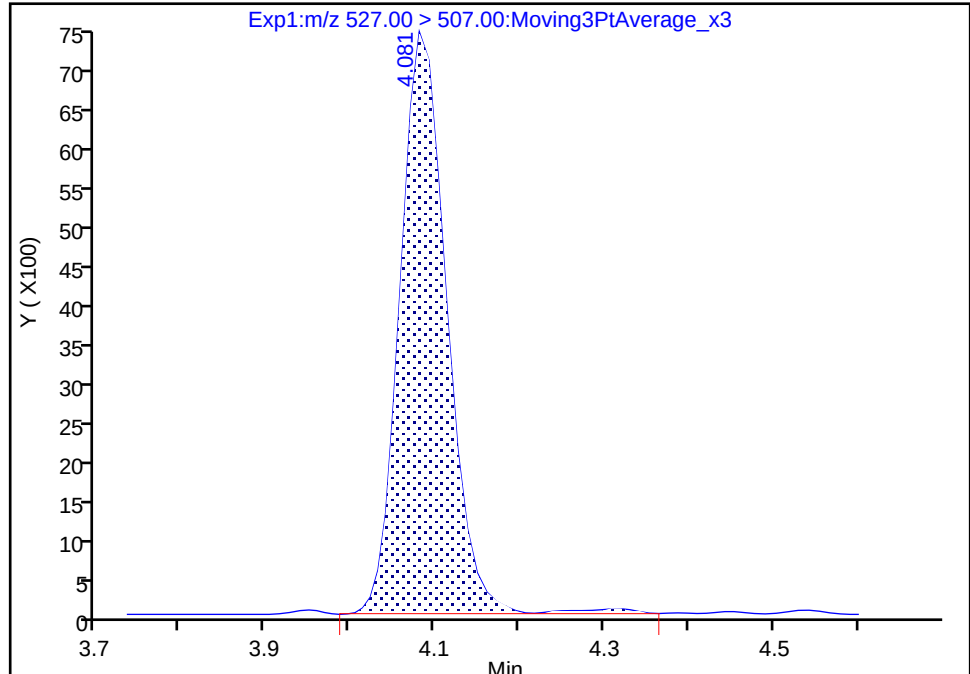
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

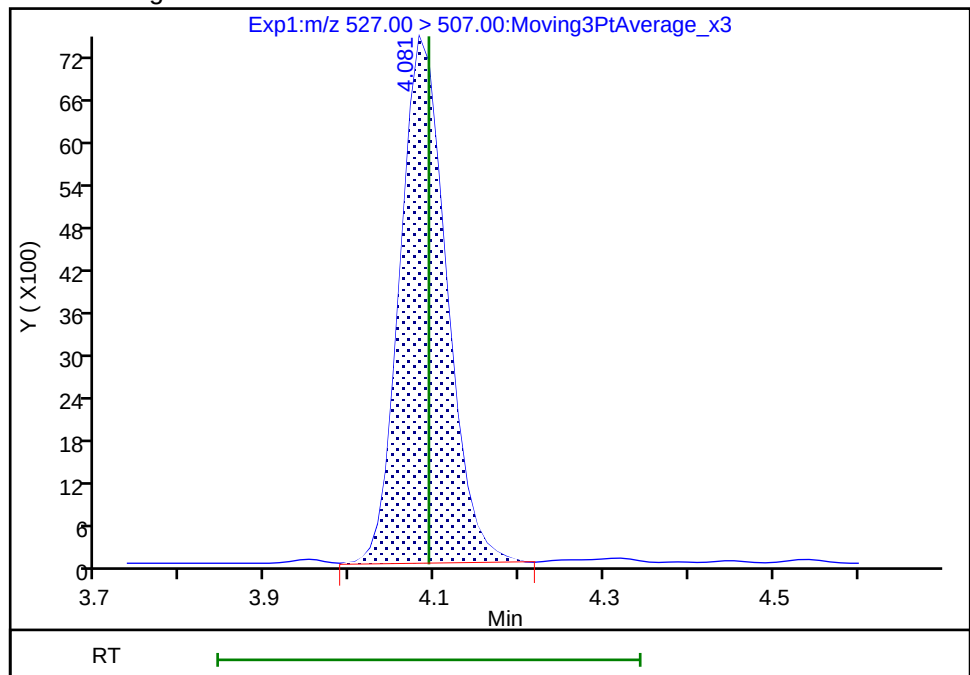
RT: 4.08
Area: 28741
Amount: 0.057885
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 28373
Amount: 0.057144
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:23:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

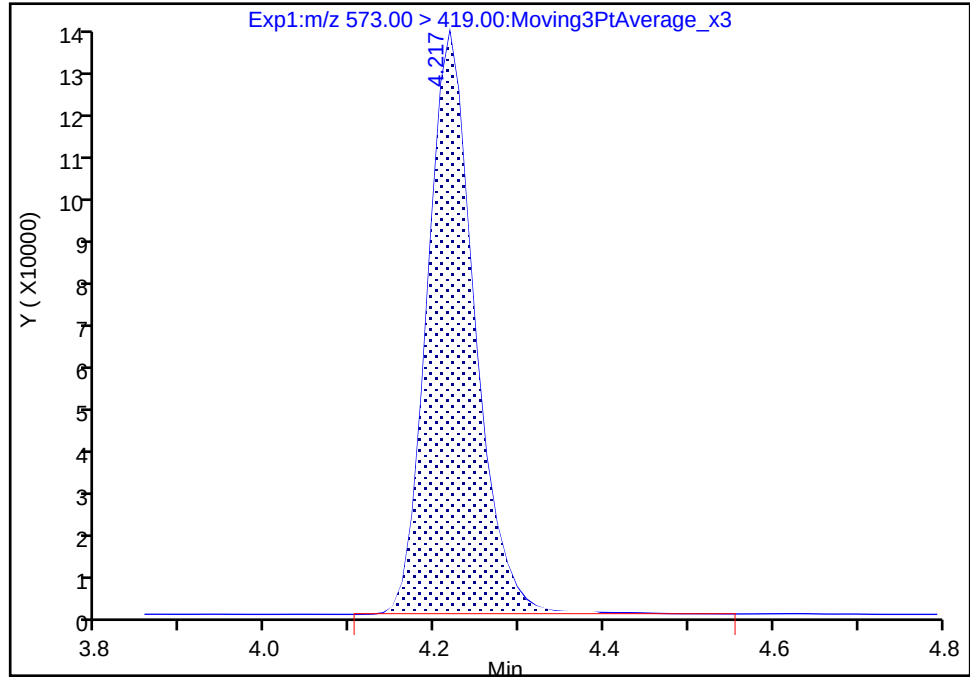
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

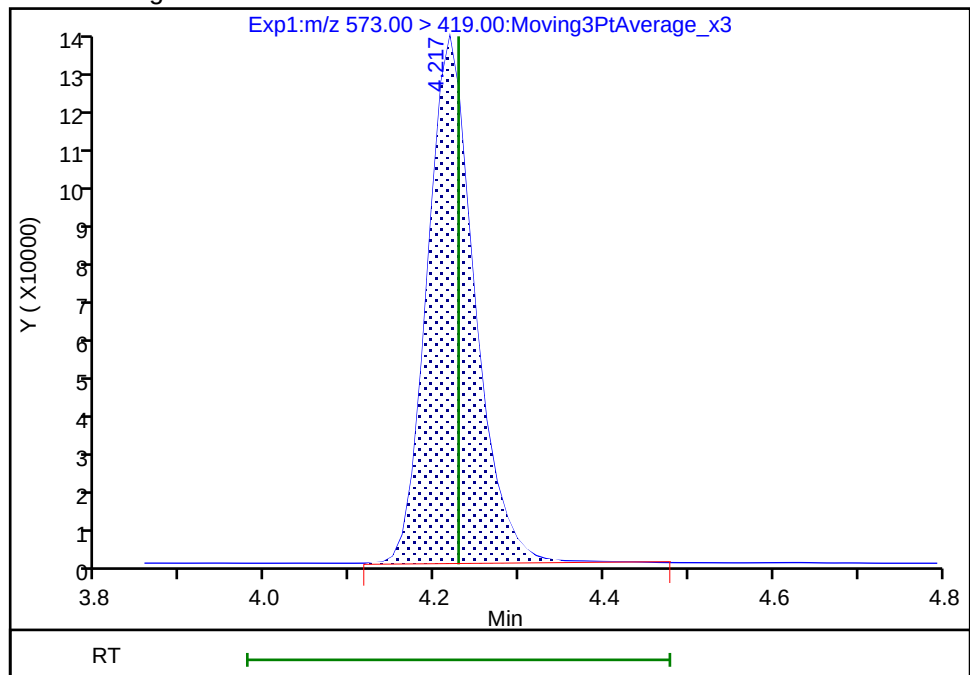
RT: 4.22
Area: 537256
Amount: 1.164630
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 535876
Amount: 1.161638
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:20:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

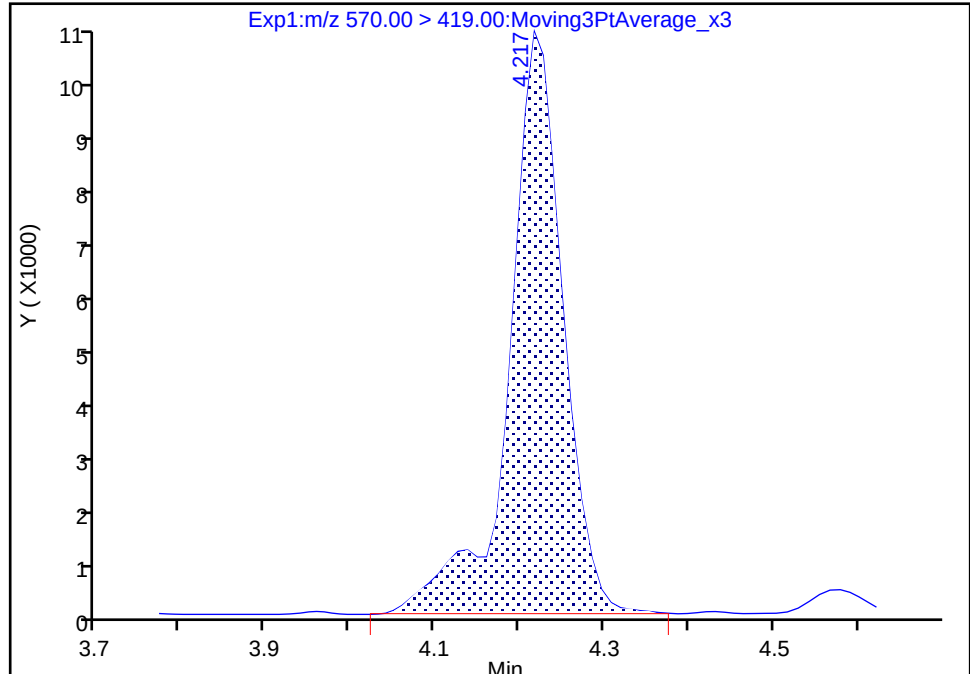
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

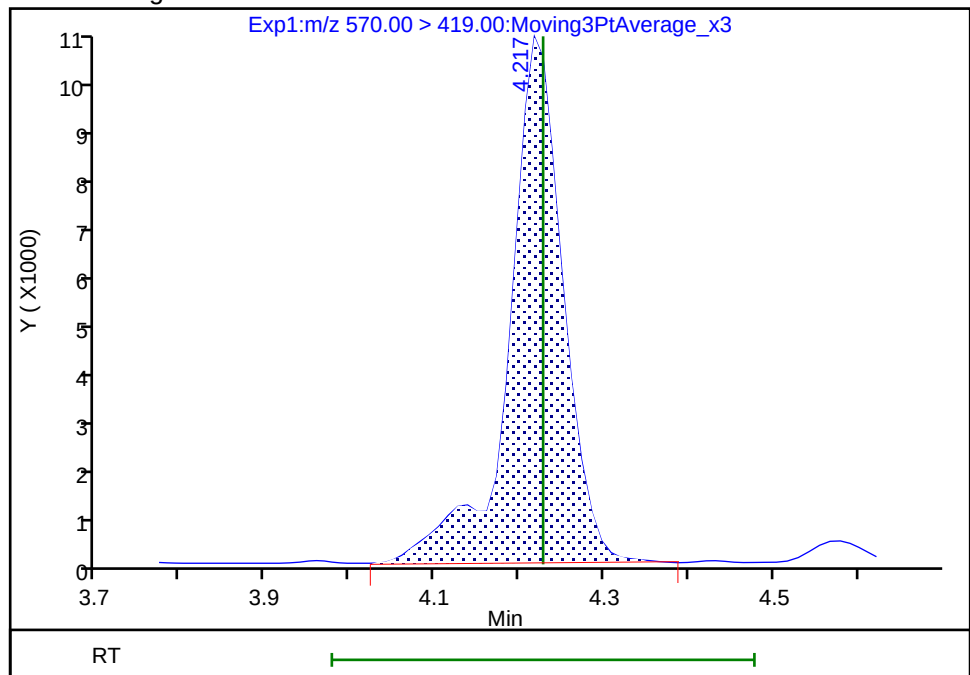
RT: 4.22
Area: 47968
Amount: 0.118443
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 47858
Amount: 0.118144
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:23:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

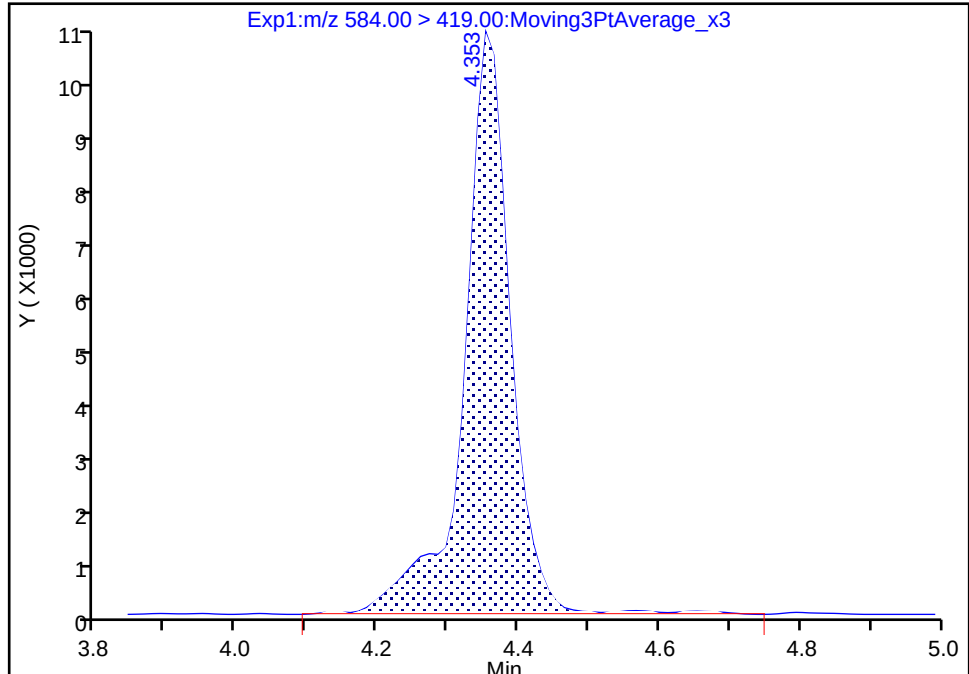
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

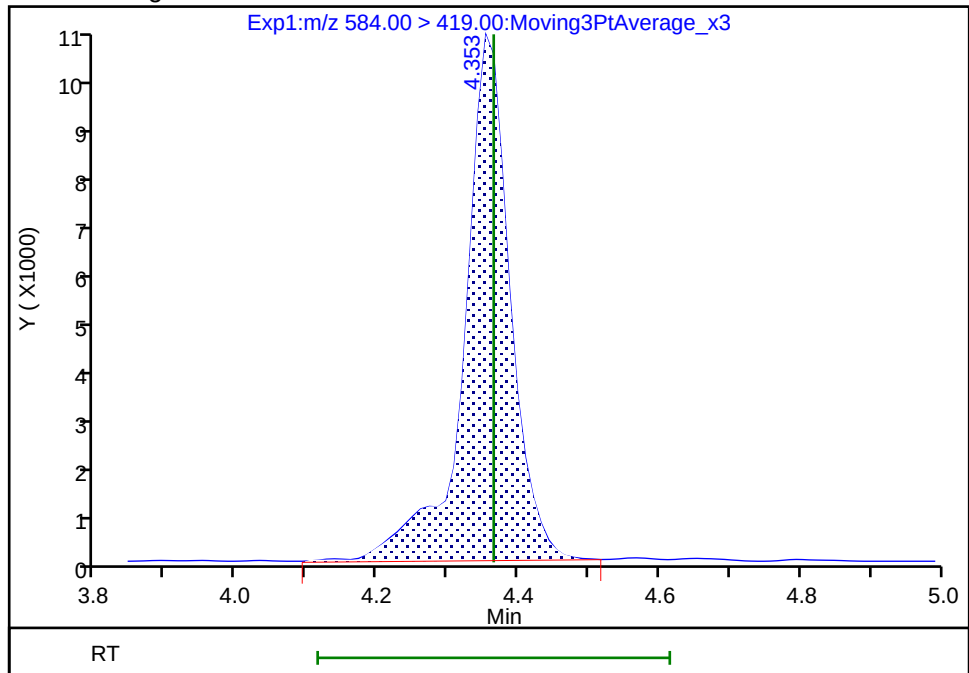
RT: 4.35
Area: 50915
Amount: 0.137345
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 49882
Amount: 0.134558
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:23:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

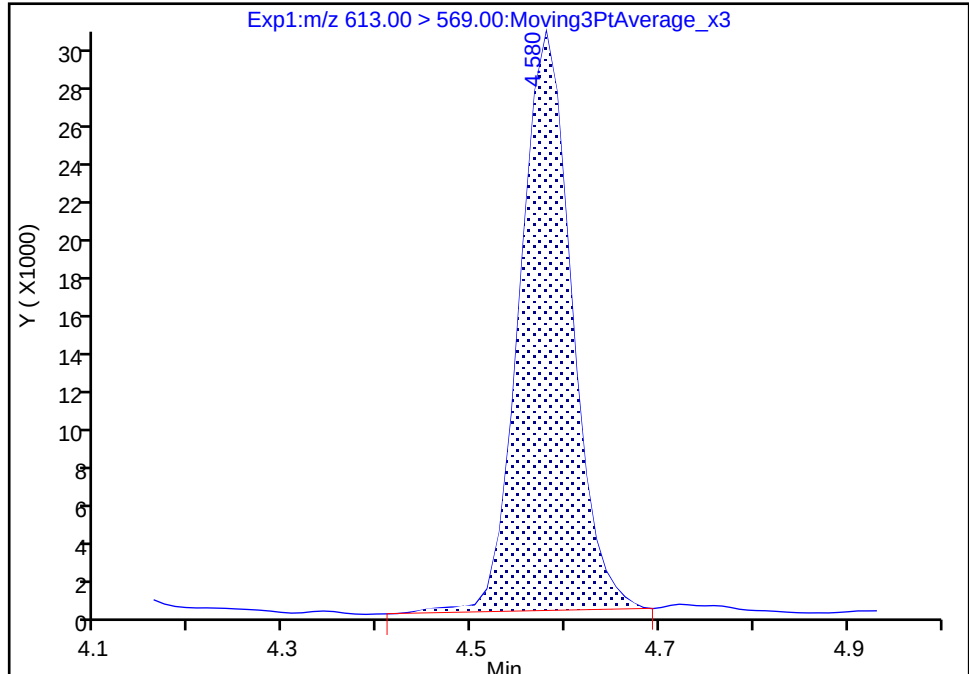
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

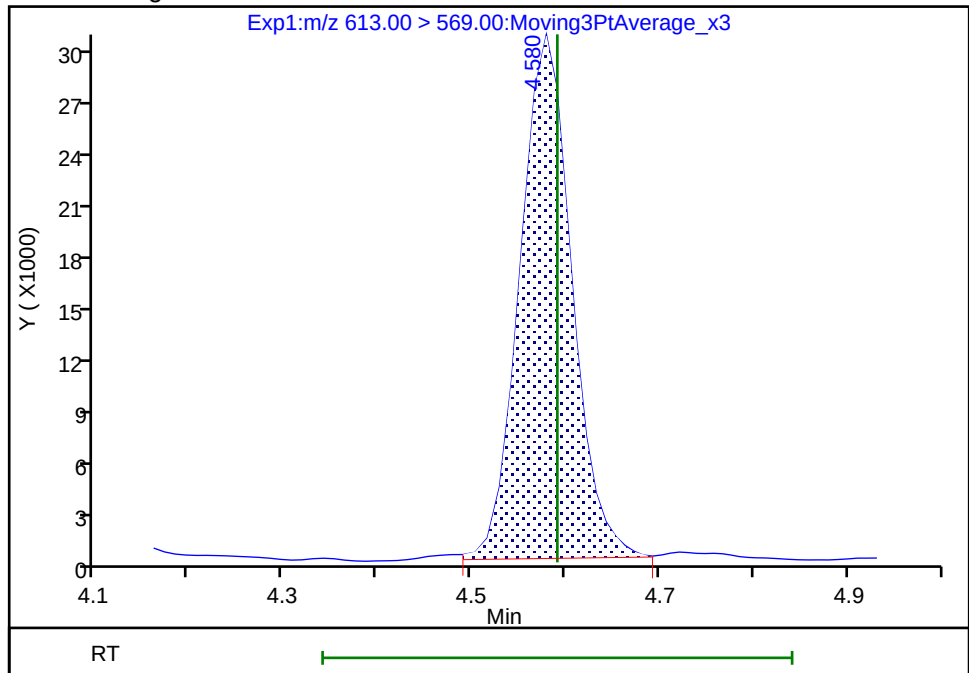
RT: 4.58
Area: 116355
Amount: 0.052450
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 115555
Amount: 0.052090
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:23:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

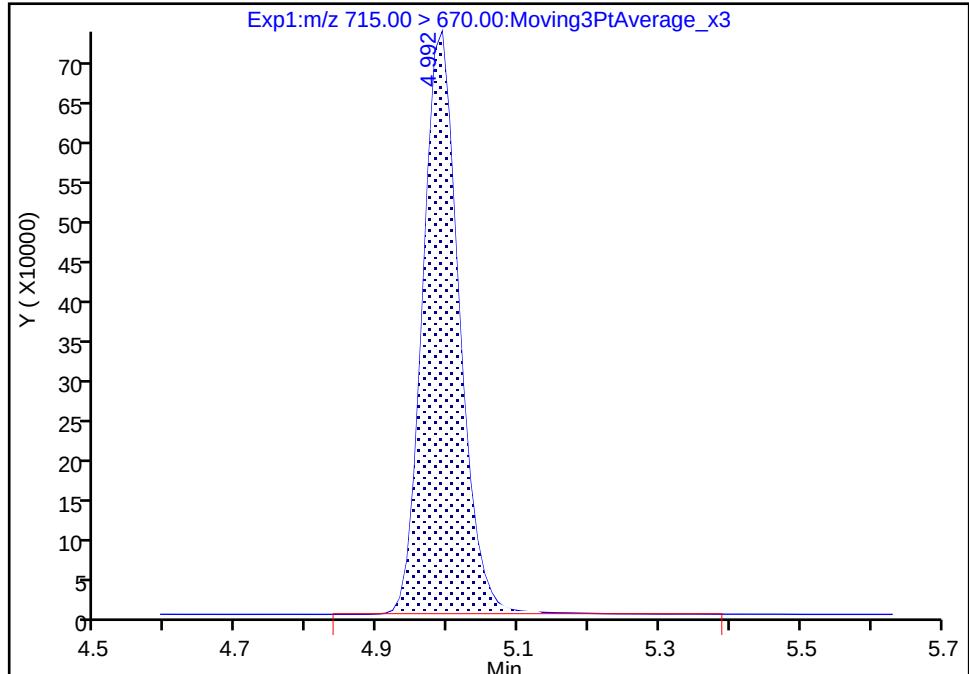
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

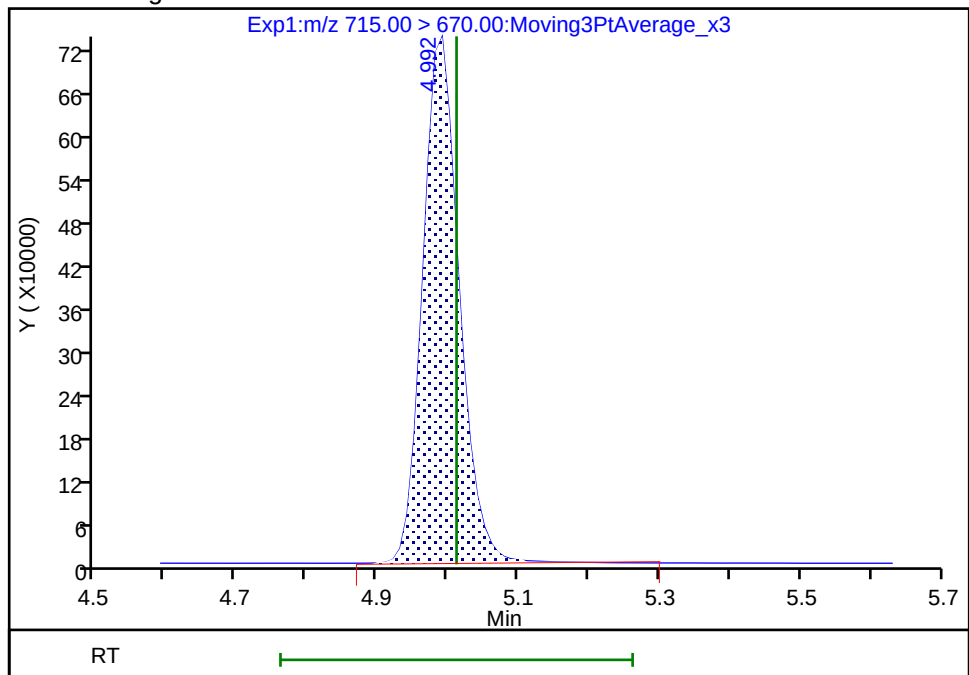
RT: 4.99
Area: 2637486
Amount: 1.442676
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 2633902
Amount: 1.440715
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:20:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

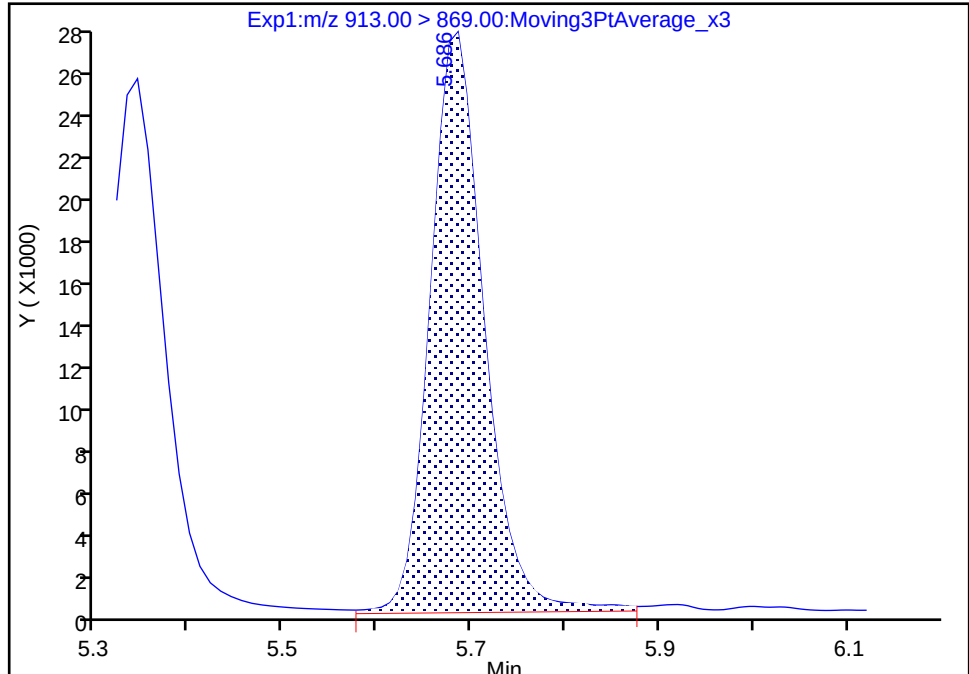
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A05.d
Injection Date: 04-Jan-2023 15:18:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

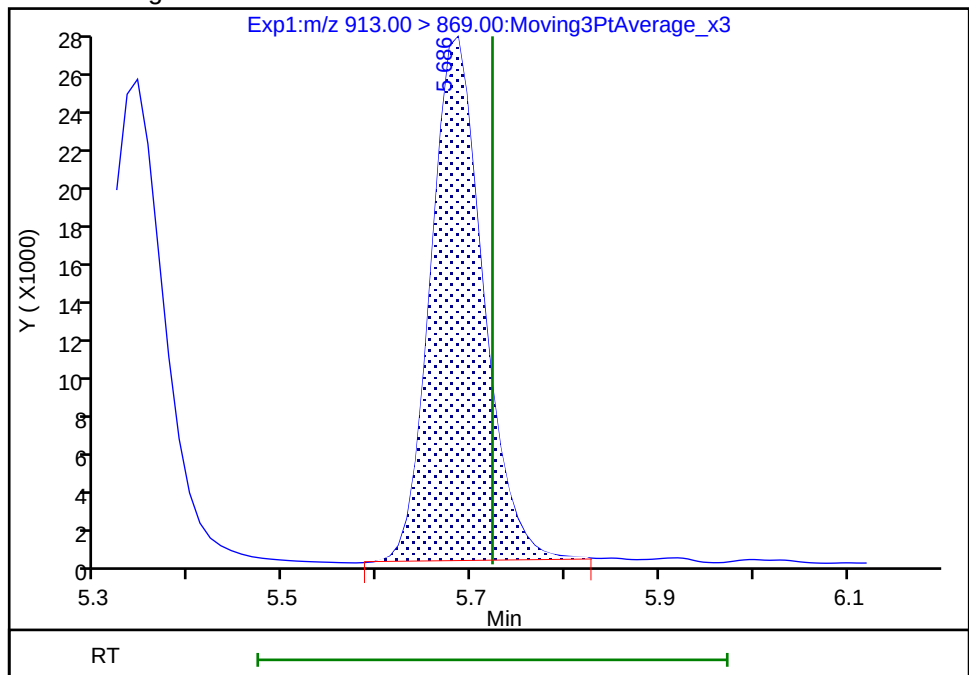
RT: 5.69
Area: 107913
Amount: 0.053704
Amount Units: ng/ml

Processing Integration Results



RT: 5.69
Area: 103052
Amount: 0.051285
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:23:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCV 200-187252/7 Calibration Date: 01/04/2023 15:34

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230104A07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9294		0.901	1.00	-9.9	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	0.9922		0.910	1.00	-9.0	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.035		0.800	0.884	-9.5	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.902		0.880	0.934	-5.8	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9769		0.897	1.00	-10.3	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.225		0.860	0.938	-8.3	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9617		0.911	1.00	-8.9	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9748		0.895	1.00	-10.5	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.061		0.856	0.910	-6.0	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.266		0.901	0.942	-4.4	
6:2 FTS	L1ID		2.218		0.984	0.948	3.7	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.356		0.924	0.952	-2.9	
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9941		0.930	1.00	-7.0	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.072		0.818	0.928	-11.8	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.8835		0.852	1.00	-14.8	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.958		0.988	0.932	6.0	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8690		0.909	0.960	-5.3	
Perfluorodecanoic acid (PFDA)	AveID	1.084	0.9212		0.849	1.00	-15.1	
8:2 FTS	AveID	1.617	1.687		0.999	0.958	4.3	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9490		0.908	1.00	-9.2	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8644		0.993	1.00	-0.7	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6992		0.930	0.964	-3.5	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9539		0.947	1.00	-5.3	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8458		0.945	1.00	-5.5	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.559		0.998	0.942	6.0	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.003		0.946	1.00	-5.4	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.018		1.01	0.964	4.8	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.3094		0.977	0.968	0.9	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187252/7 Calibration Date: 01/04/2023 15:34
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA230104A07.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	1.013	1.021		1.01	1.00	0.7	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1188		0.868	1.00	-13.2	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9121		0.975	1.00	-2.5	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.7921		0.962	1.00	-3.8	
13C4 PFBA	Ave	1.122	1.073		1.20	1.25	-4.3	
13C5 PFPeA	Ave	0.8543	0.8385		1.23	1.25	-1.8	
13C3 PFBS	Ave	0.9281	0.8915		1.12	1.16	-3.9	
M2-4:2 FTS	Ave	0.0820	0.0861		1.23	1.17	5.0	
13C2 PFHxA	Ave	0.8951	0.8653		1.21	1.25	-3.3	
13C3 HFPO-DA	Ave	0.1580	0.1540		1.22	1.25	-2.5	
13C4 PFHpA	Ave	0.9206	0.8913		1.21	1.25	-3.2	50.0
18O2 PFHxS	Ave	0.6761	0.6687		1.17	1.18	-1.1	50.0
M2-6:2 FTS	Ave	0.1134	0.1322		1.39	1.19	16.6	
13C4 PFOA	Ave	1.035	1.029		1.24	1.25	-0.6	50.0
13C4 PFOS	Ave	0.4588	0.4294		1.12	1.20	-6.4	50.0
13C5 PFNA	Ave	1.006	1.079		1.34	1.25	7.3	50.0
13C2 PFDA	Ave	1.025	1.191		1.45	1.25	16.2	
M2-8:2 FTS	Ave	0.1387	0.1442		1.25	1.20	4.0	
13C8 FOSA	Ave	0.8403	0.8280		1.23	1.25	-1.5	
d3-NMeFOSAA	Ave	0.2087	0.1965		1.18	1.25	-5.9	
13C2 PFUnA	Ave	0.9385	0.9907		1.32	1.25	5.6	
d5-NEtFOSAA	Ave	0.2055	0.1967		1.20	1.25	-4.3	
13C2 PFDoA	Ave	0.9562	0.9908		1.30	1.25	3.6	
13C2 PFTeDA	Ave	0.8270	0.9392		1.42	1.25	13.6	
13C2 PFHxDA	Ave	1.022	1.129		1.38	1.25	10.5	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Jan-2023 15:34:32 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053892-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 11:52:44 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: Z1IP

Date: 05-Jan-2023 11:52:44

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	2.076	0.0	0.604	2912563	1.20		95.7	7670	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	2165643	0.9013		90.1	147	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.387	-0.014	0.690	2275767	1.23		98.2	1258	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.387	2.387	0.0	1.006	1806343	0.9104		91.0	25.6	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.698	2250313	1.12		96.1	122922	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	1770873	0.7996	Target=2.09	90.5	870	
298.90 > 99.00	2.400	2.400	0.0	1.000	819450		2.16(1.04-3.13)		155	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	506635	0.8798		94.2	2173	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.782	218218	1.23		105	155	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.793	2348525	1.21		96.7	3185	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1835399	0.8965	Target=14.25	89.7	118	M
313.00 > 119.00	2.725	2.725	0.0	1.000	128491		14.28(7.12-21.37)		123	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.725	2.737	-0.012	0.883	1668081	0.8603	Target=3.04	91.7	938	
349.00 > 99.00	2.725	2.737	-0.012	0.883	547288		3.05(1.52-4.56)		407	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	321542	0.9108		91.1	2350	

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	2.835	0.0	0.824	417925	1.22		97.5	3474	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.898	1716819	1.17		98.9	3284	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	1402426	0.8558	Target=3.66	94.0	1270	M
399.00 > 99.00	3.088	3.088	0.0	1.000	400572		3.50(1.83-5.49)		131	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.898	2419237	1.21		96.8	2916	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.088	3.099	-0.011	1.000	1886639	0.8953	Target=3.97	89.5	180	
363.00 > 169.00	3.088	3.099	-0.011	1.000	464058		4.07(1.98-5.95)		580	
77 DONA										
377.00 > 251.00	3.121	3.132	-0.011	0.831	4625248	0.9008	Target=3.16	95.6	3417	
377.00 > 85.00	3.121	3.132	-0.011	0.831	1458072		3.17(1.58-4.73)		1444	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.997	340958	1.38		117	710	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.000	603746	0.9835		104	500	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.914	1203262	0.9239	Target=5.14	97.1	1731	M
449.00 > 99.00	3.422	3.439	-0.017	0.911	244463		4.92(2.57-7.72)		453	M
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.448	-0.009	1.000	2792430	1.24		99.4	9730	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.448	-0.009		2714135	1.25			5969	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.439	3.448	-0.009	1.000	2220746	0.9299	Target=2.79	93.0	135	M
413.00 > 169.00	3.439	3.448	-0.009	1.000	774514		2.87(1.40-4.19)		569	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.092	1114227	1.12		93.6	2517	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.764	-0.010	1.000	927816	0.8182	Target=5.11	88.2	1615	M
499.00 > 99.00	3.754	3.764	-0.010	1.000	299251		3.10(2.55-7.66)		6.1	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.783	-0.010	1.000	2070020	0.8517	Target=8.55	85.2	415	
463.00 > 169.00	3.773	3.783	-0.010	1.000	254492		8.13(4.28-12.83)		898	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.097	2928576	1.34		107	5276	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.916	3.928	-0.012	1.043	2570164	0.9876		106	4892	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.042	4.050	-0.008	1.076	777809	0.9088	Target=2.53	94.7	2348	
549.00 > 99.00	4.042	4.050	-0.008	1.076	306794		2.54(1.27-3.80)		1088	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	3231479	1.45		116	5029	

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	4.081	-0.010	1.000	2381587	0.8495	Target=10.26	84.9	662	
513.00 > 169.00	4.071	4.081	-0.010	1.000	232421		10.25(5.13-15.38)		1007	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	375009	1.25		104	849	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.093	-0.012	1.000	505972	1.00		104	1775	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.150	-0.011	1.000	1706086	0.9084		90.8	1564	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.150	-0.011	1.203	2247248	1.23		98.5	2623	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.218	4.228	-0.010	1.226	533218	1.18		94.1	582	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.218	4.228	-0.010	1.000	368733	0.99		99.3	612	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.308	4.331	-0.023	1.148	628483	0.9300	Target=2.51	96.5	2097	
599.00 > 99.00	4.308	4.331	-0.023	1.148	251638		2.50(1.25-3.76)		1870	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	2688903	1.32		106	1750	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.353	-0.011	1.000	2051927	0.9465	Target=9.88	94.7	971	
563.00 > 169.00	4.342	4.353	-0.011	1.000	202534		10.13(4.94-14.82)		1518	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.354	4.365	-0.011	1.000	361232	0.9448		94.5	773	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.354	4.365	-0.011	1.266	533840	1.20		95.7	1202	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.432	4.454	-0.022	1.180	4004503	1.00		106	3523	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.000	2157197	0.9465	Target=7.77	94.6	194	
613.00 > 169.00	4.580	4.591	-0.011	1.000	288124		7.49(3.89-11.66)		1070	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	2689051	1.30		104	3205	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.591	4.612	-0.021	1.125	307348	1.01		105	2127	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.267	279255	0.9767	Target=0.50	101	1792	
699.00 > 99.00	4.749	4.776	-0.027	1.265	526551		0.53(0.25-0.76)		3862	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.785	4.804	-0.019	1.045	2195425	1.01	Target=5.21	101	176	M
663.00 > 169.00	4.785	4.804	-0.019	1.045	366536		5.99(2.60-7.81)		1382	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.982	5.012	-0.030	1.000	242198	0.8676	Target=0.89	86.8	1058	M
713.00 > 219.00	4.982	5.012	-0.030	1.000	269177		0.90(0.44-1.33)		1198	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.982	5.012	-0.030	1.449	2548980	1.42		114	5827	

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	5.344	5.367	-0.023	1.002	2236773	0.9749	Target=5.65	97.5	172	
813.00 > 169.00	5.344	5.367	-0.023	1.002	334550		6.69(2.82-8.47)		1148	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.333	5.367	-0.034	1.551	3065306	1.38		110	3203	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.677	5.722	-0.045	1.064	1942449	0.9618	Target=6.24	96.2	186	M
913.00 > 169.00	5.677	5.722	-0.045	1.064	275049		7.06(3.12-9.36)		712	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\20230104-53892.b\PA230104A07.d

Injection Date: 04-Jan-2023 15:34:32

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

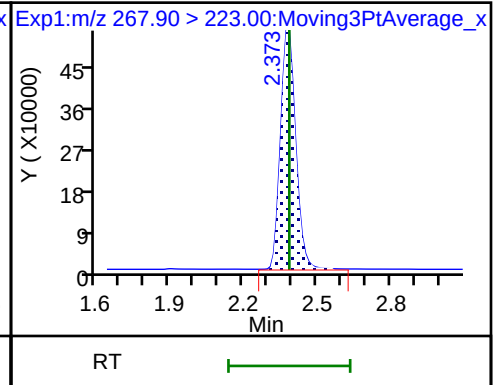
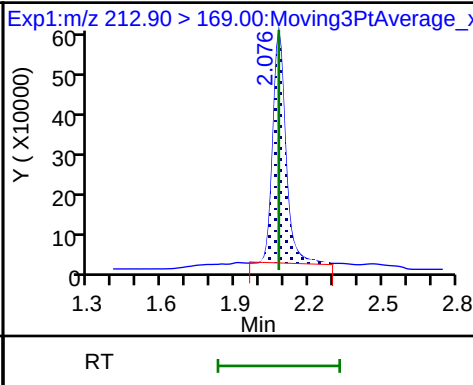
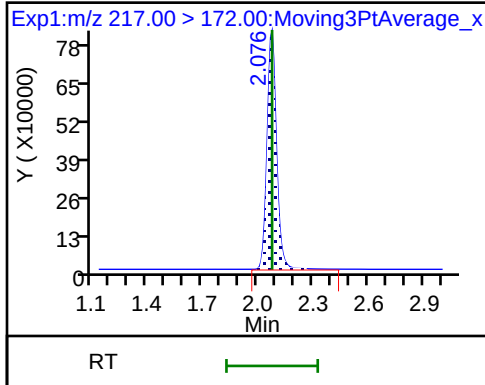
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

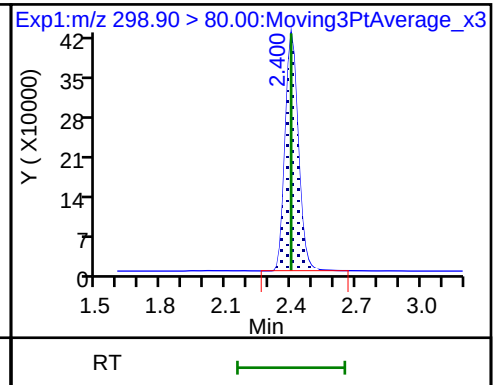
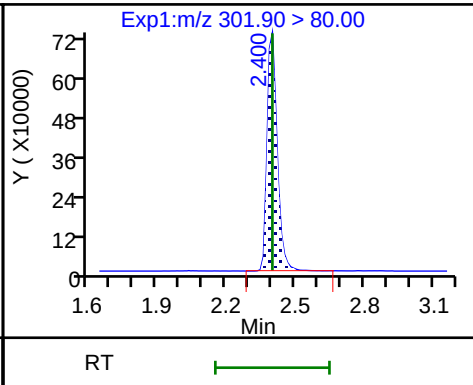
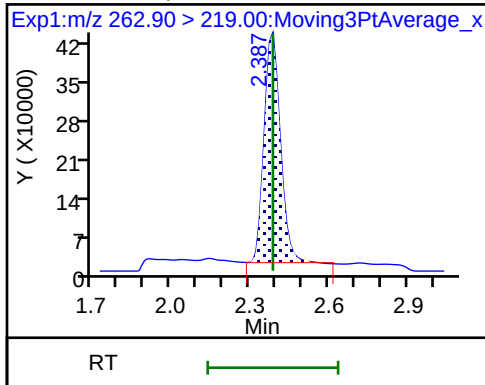
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

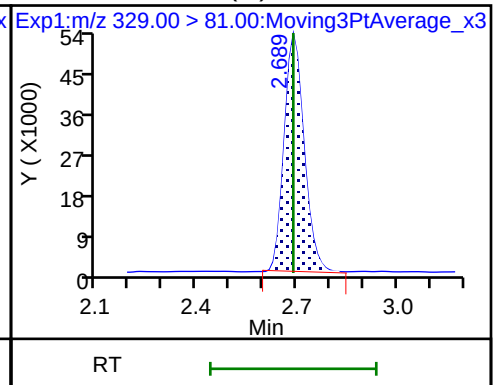
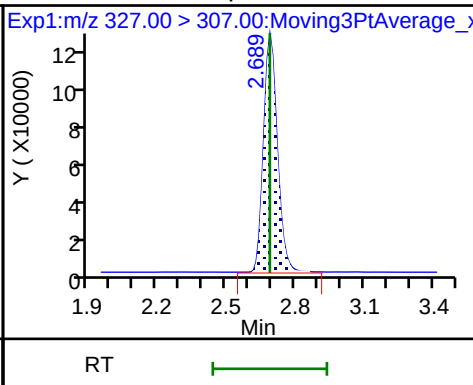
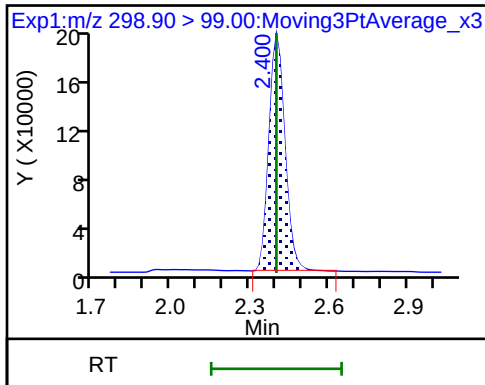
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

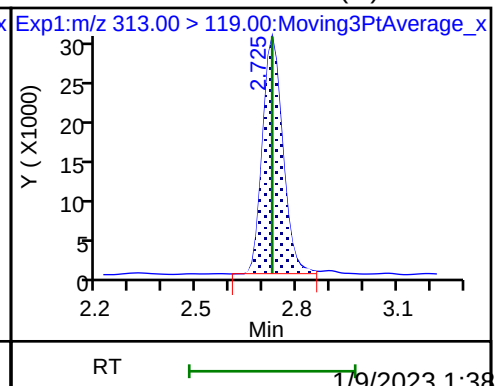
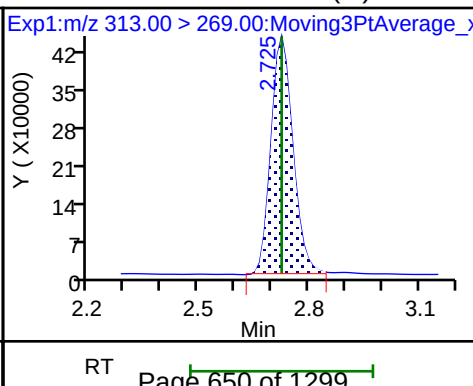
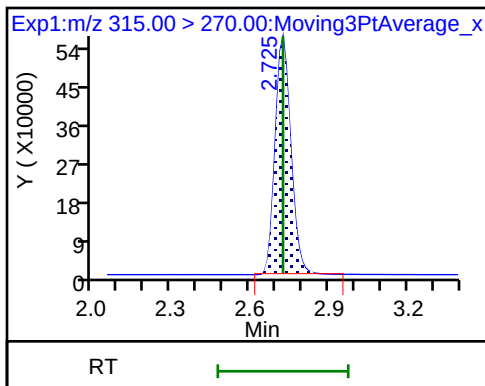
D 60 M2-4:2 FTS (M)

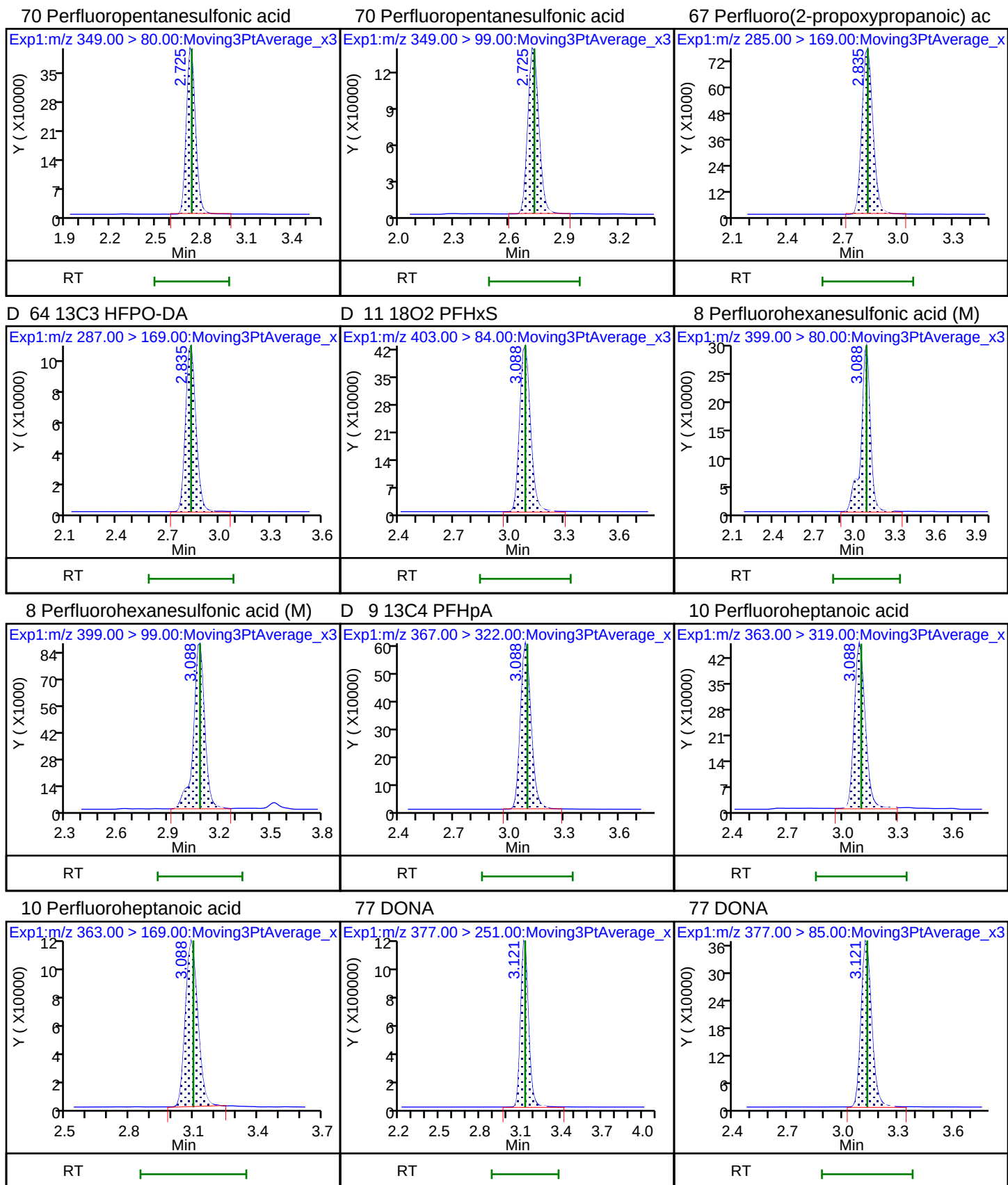


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

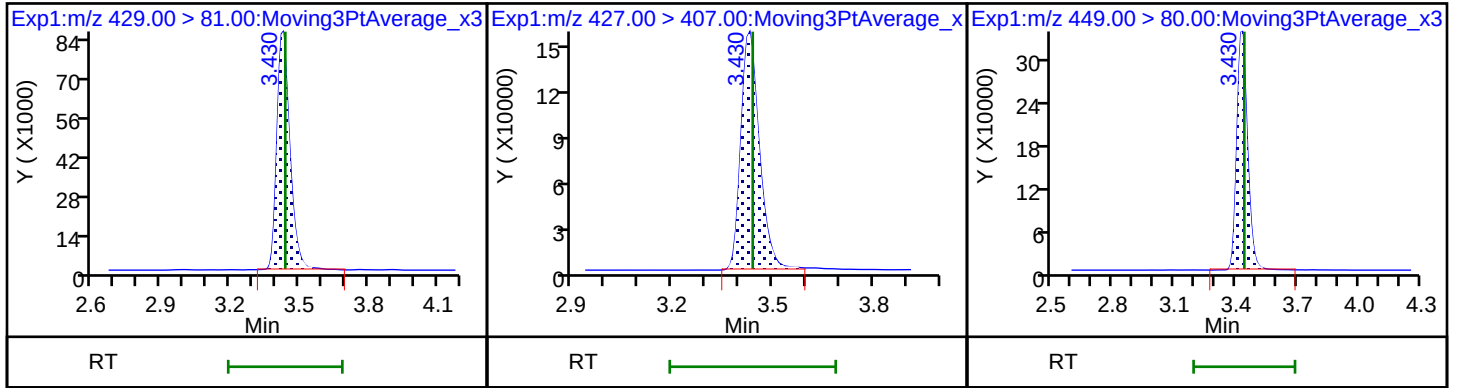
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

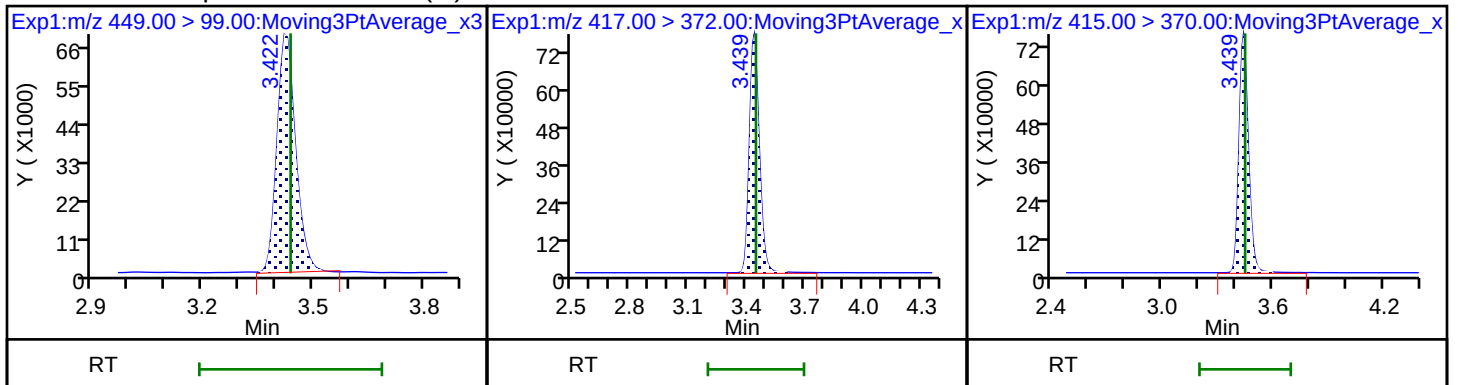
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

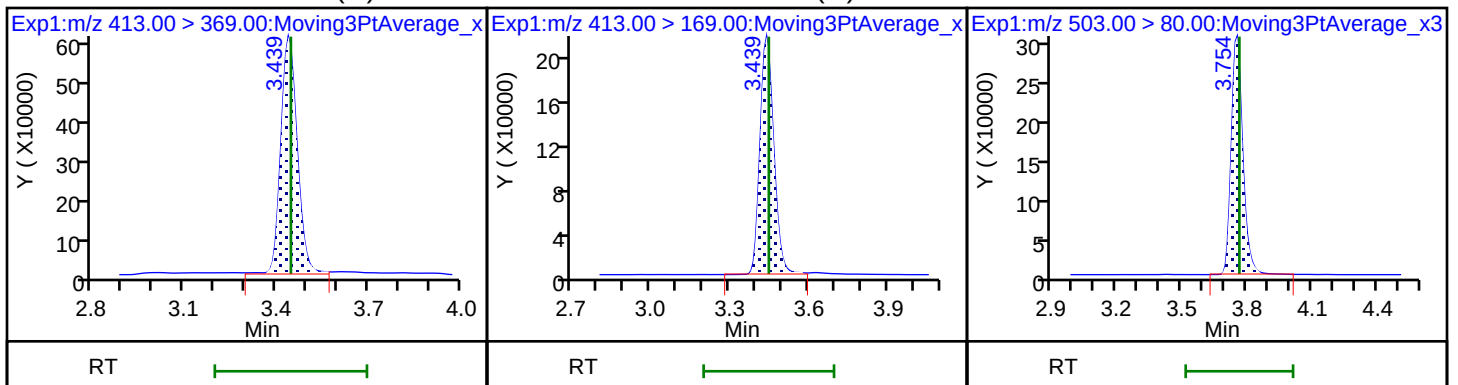
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

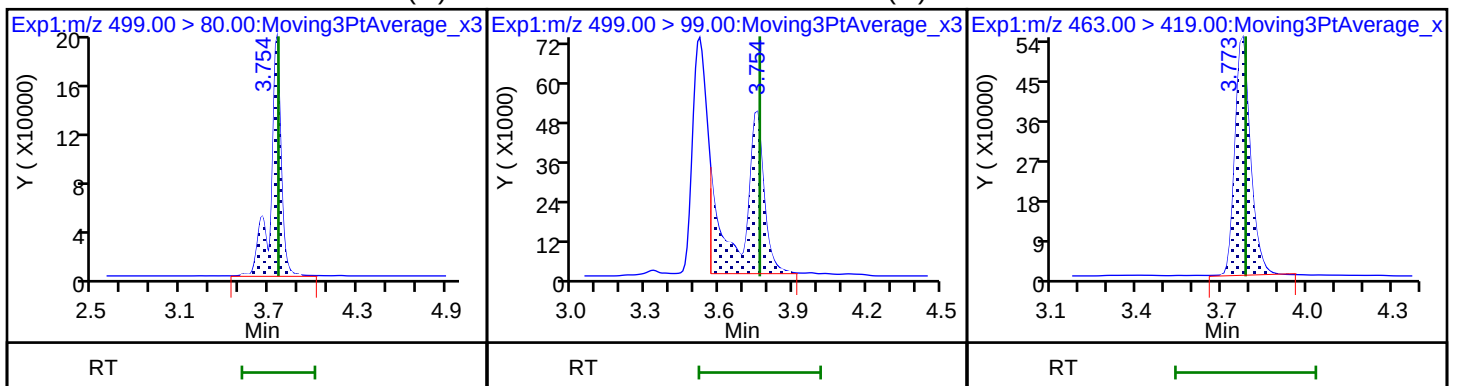
D 18 13C4 PFOS

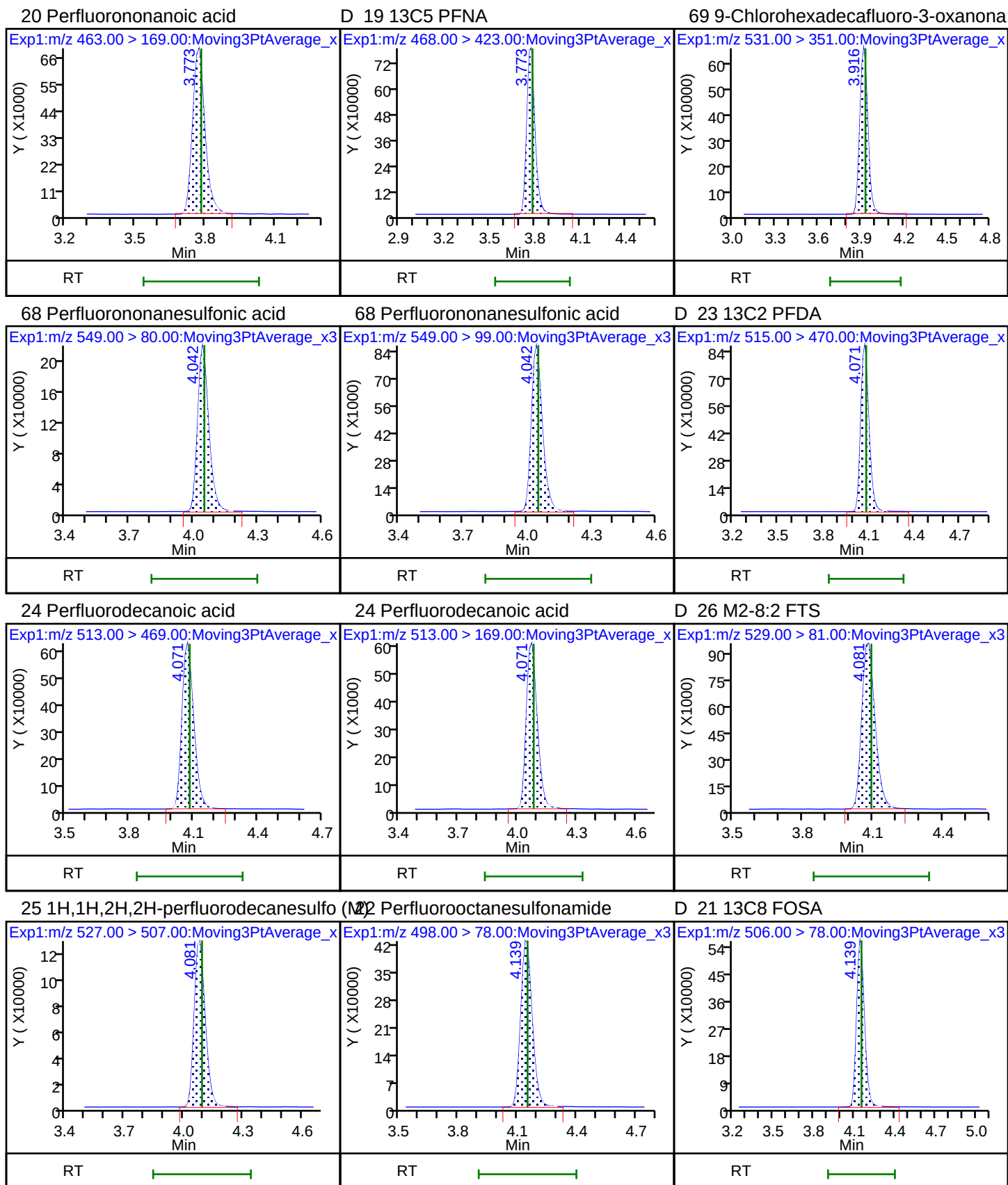


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

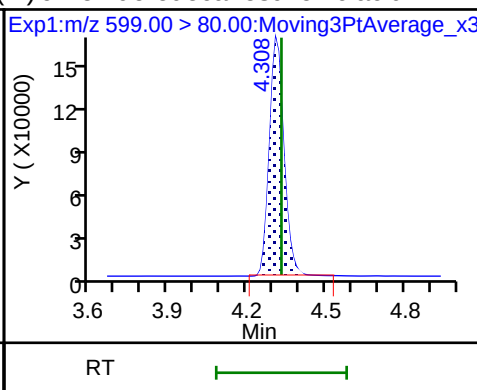
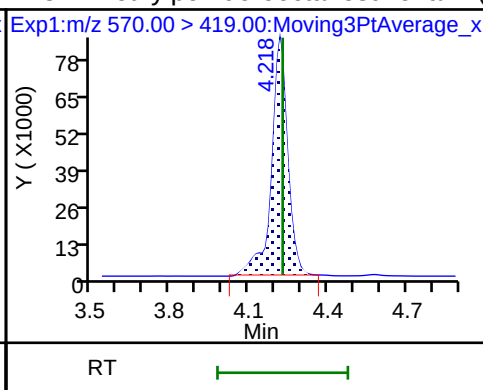
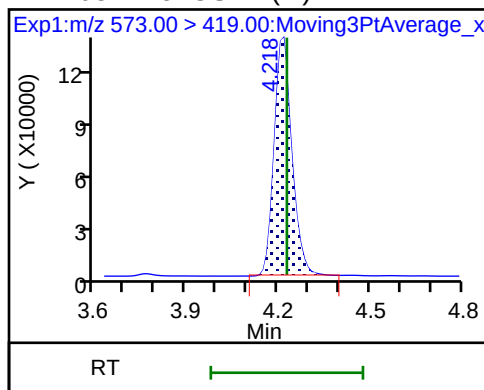




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

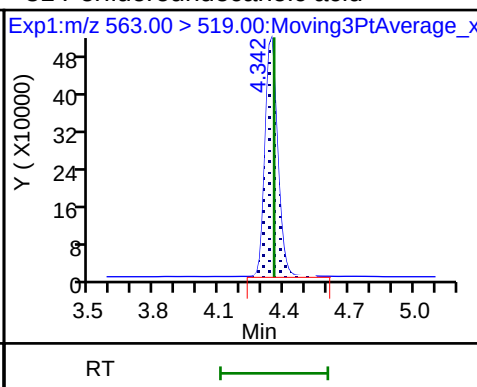
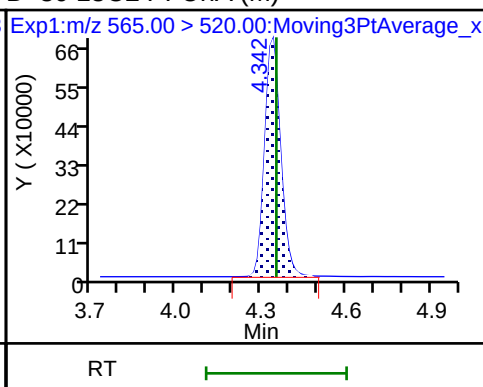
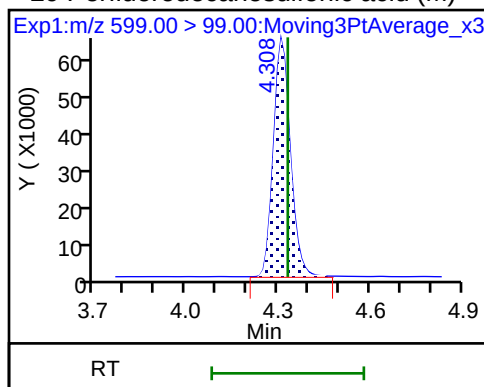
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

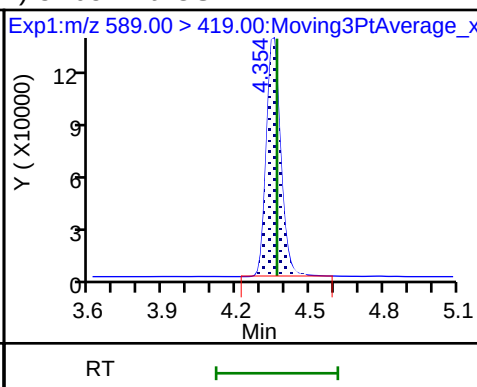
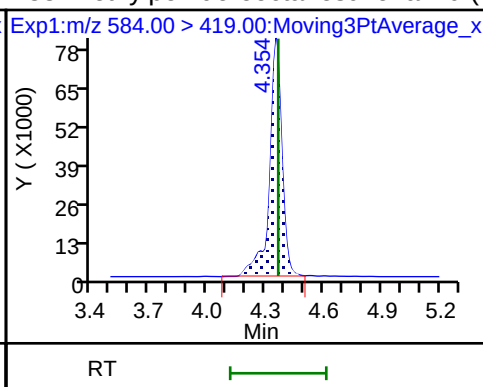
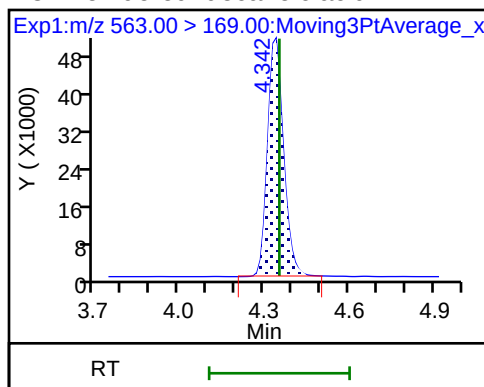
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

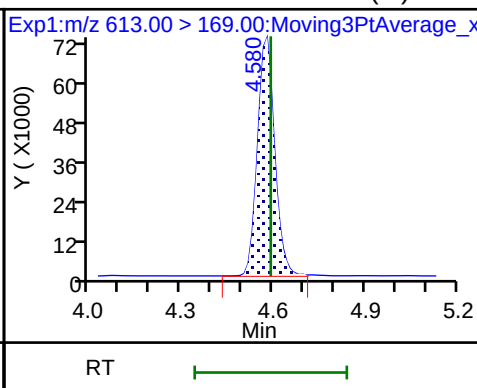
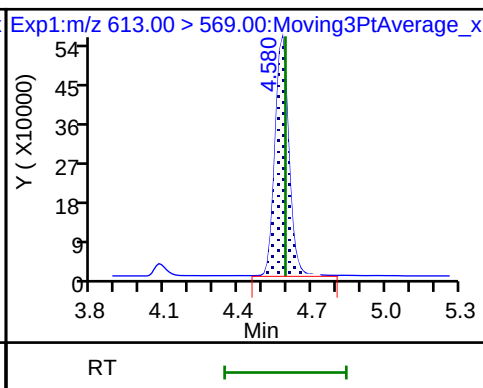
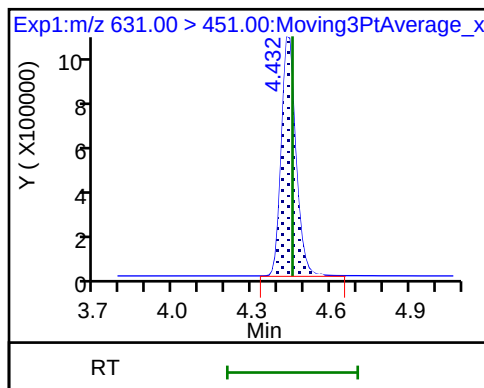
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

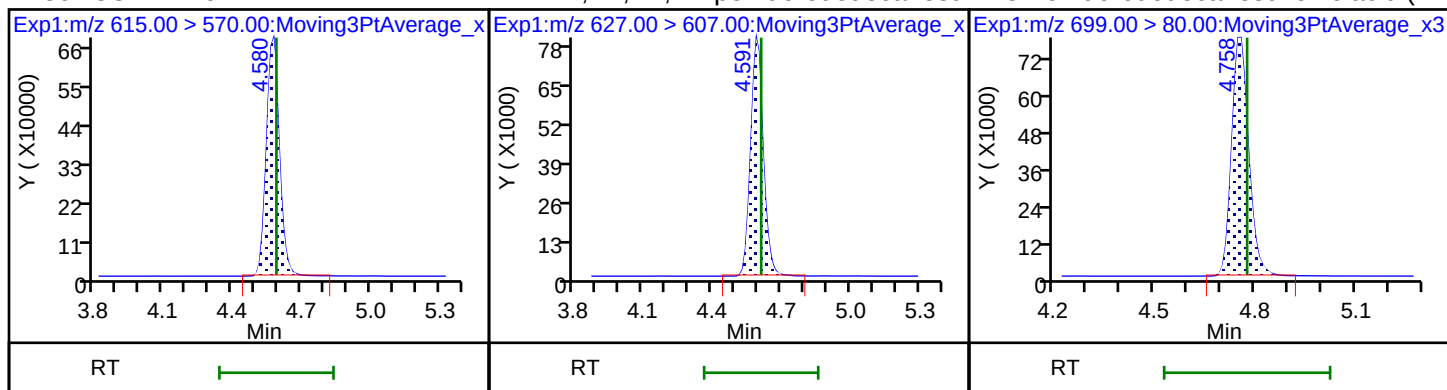
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



D 36 13C2 PFD0a

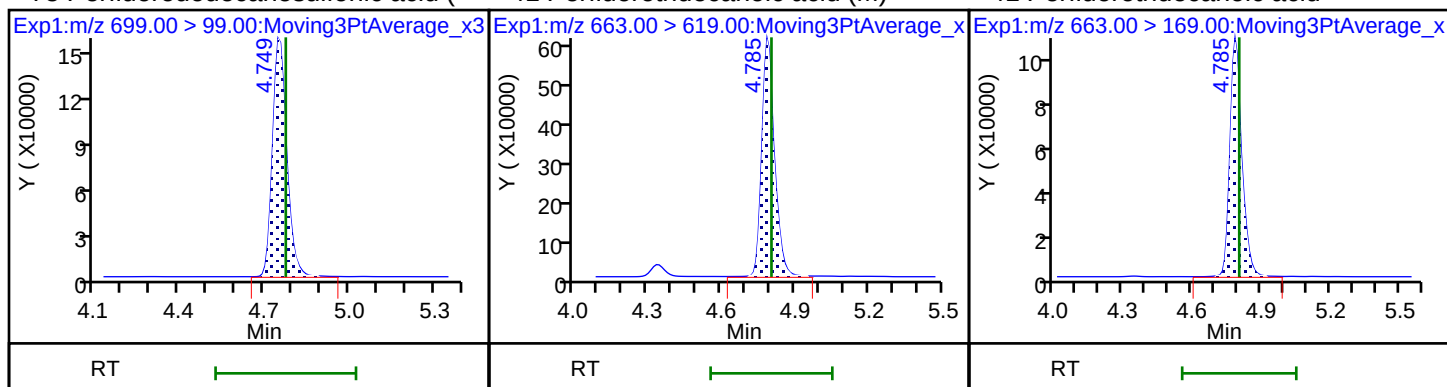
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

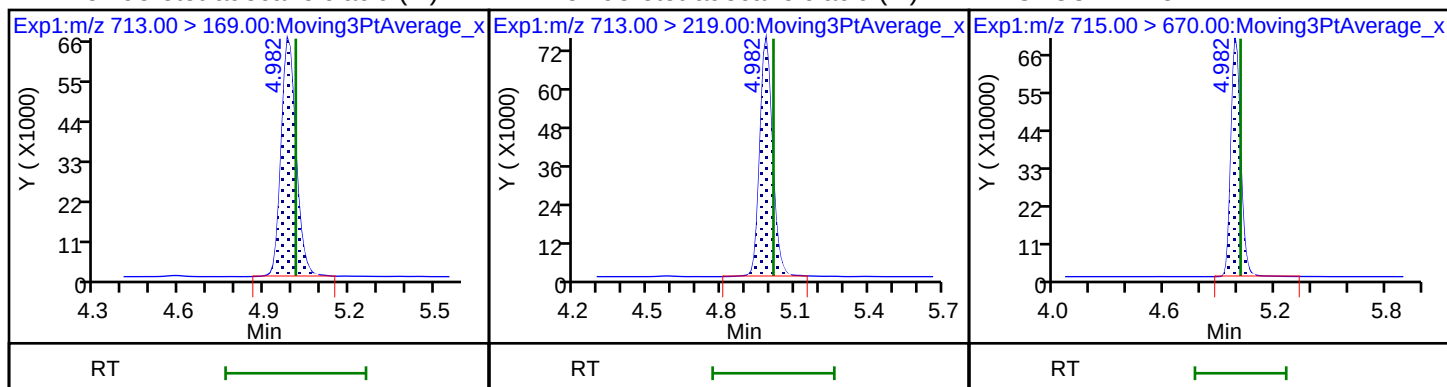
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

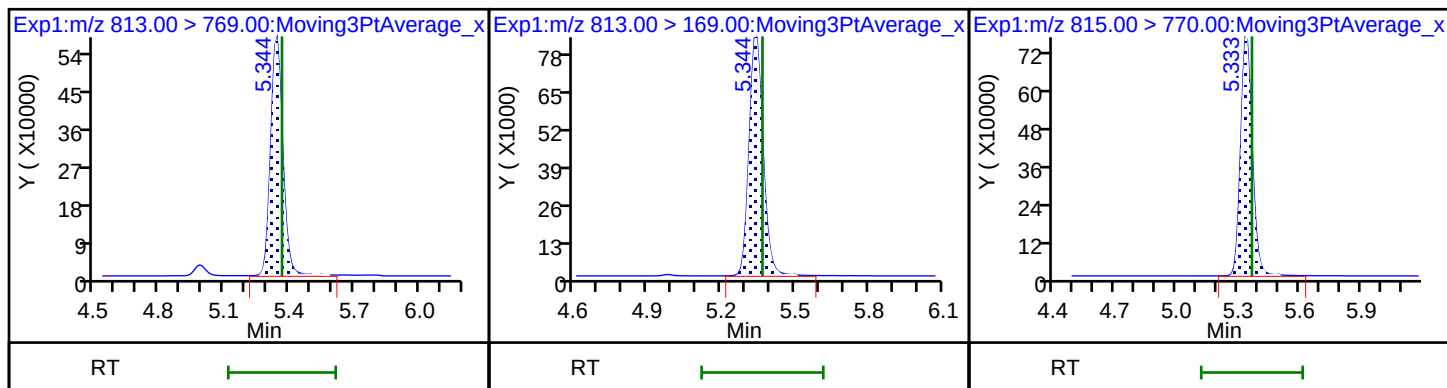
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

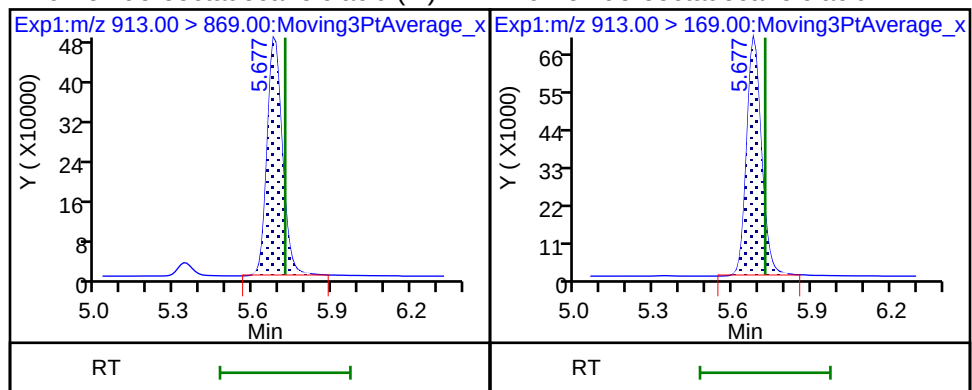
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

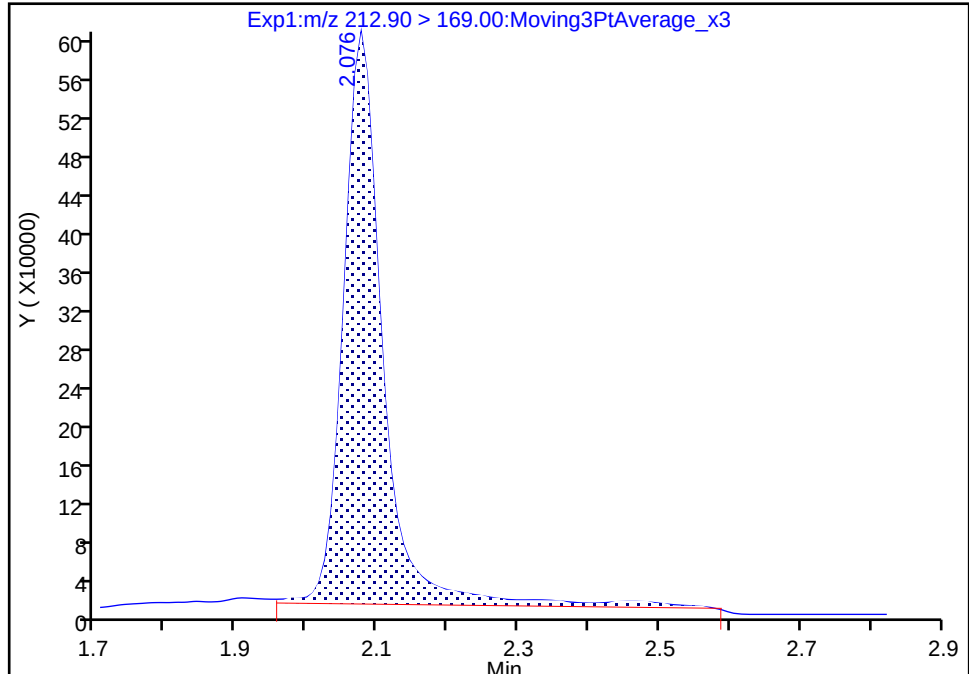
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Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

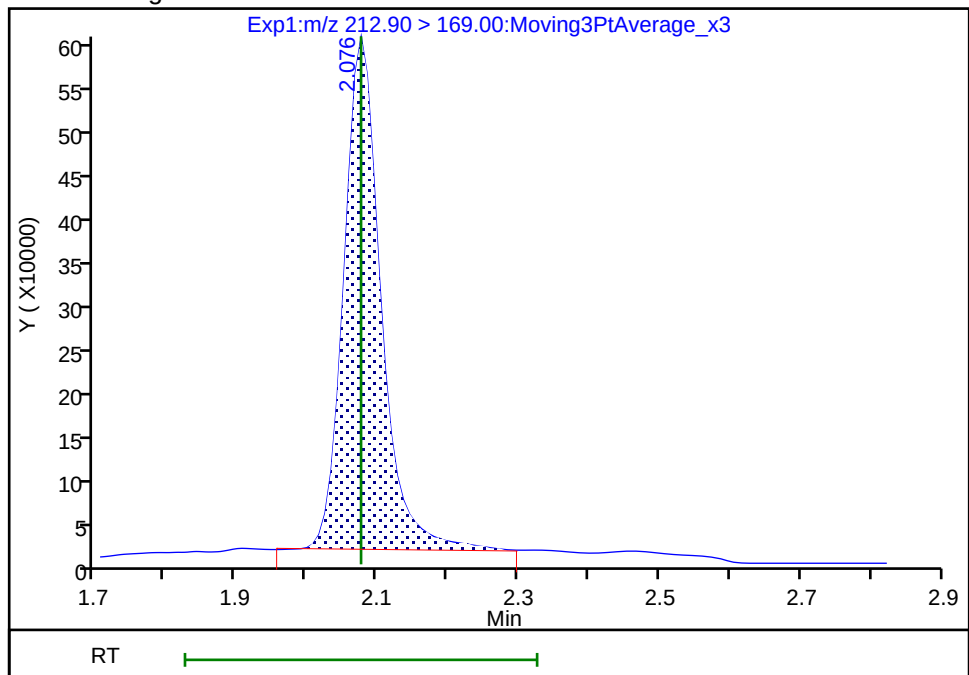
RT: 2.08
Area: 2368165
Amount: 0.985611
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2165643
Amount: 0.901323
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:27:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

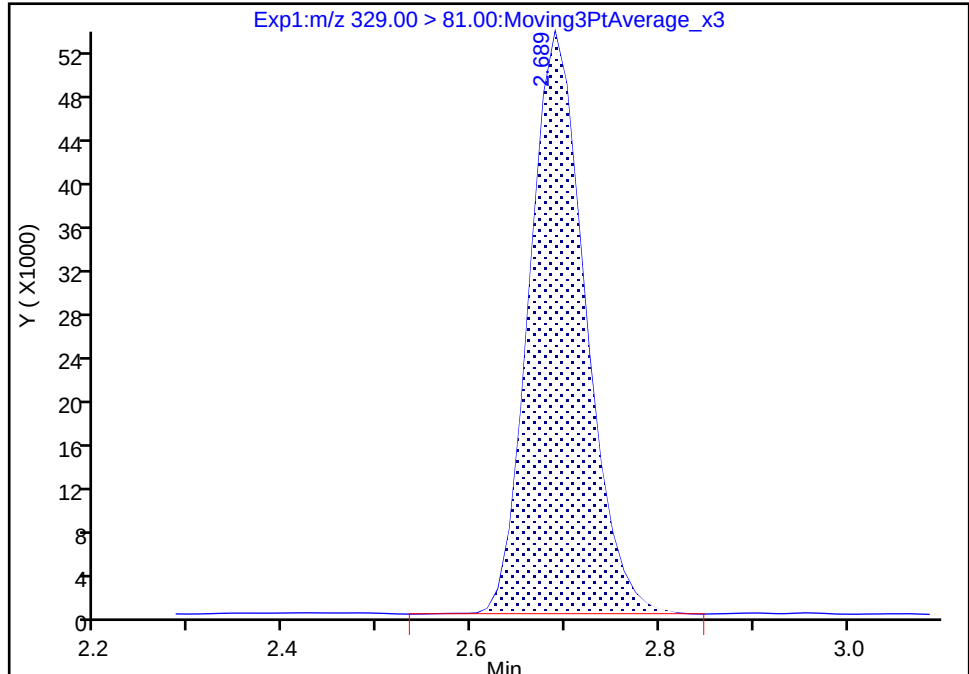
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

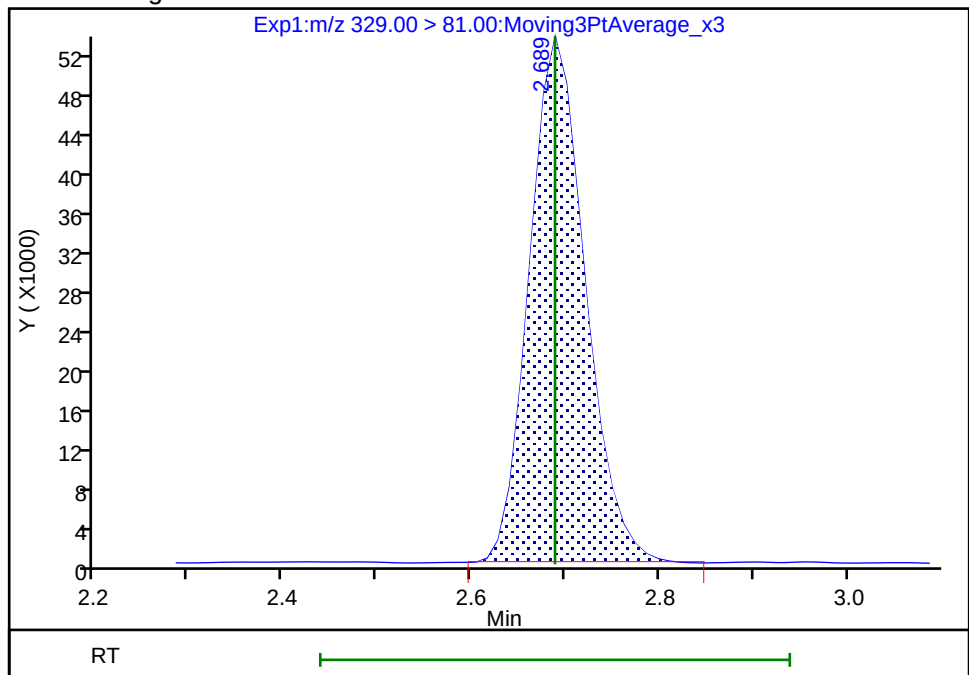
RT: 2.69
Area: 218912
Amount: 1.229332
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 218218
Amount: 1.225435
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:27:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

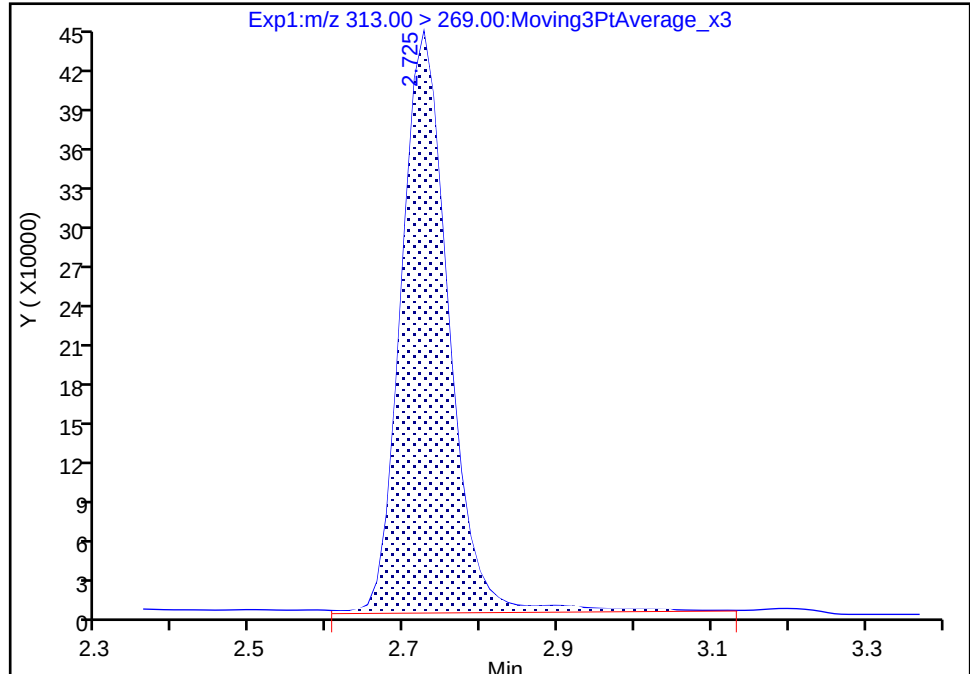
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Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

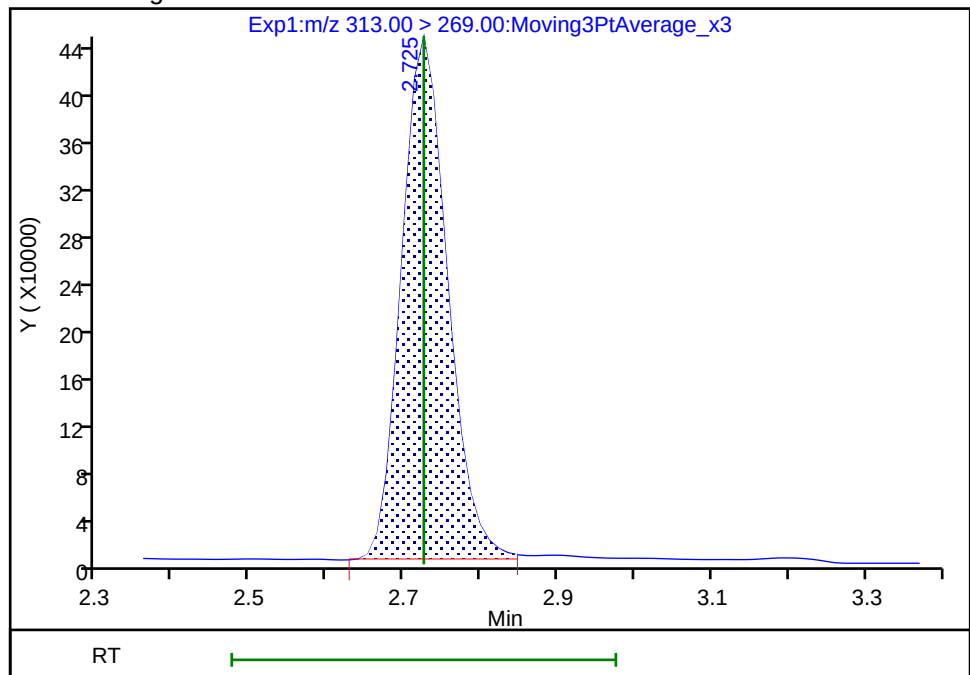
RT: 2.73
Area: 1892928
Amount: 0.924651
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1835399
Amount: 0.896549
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

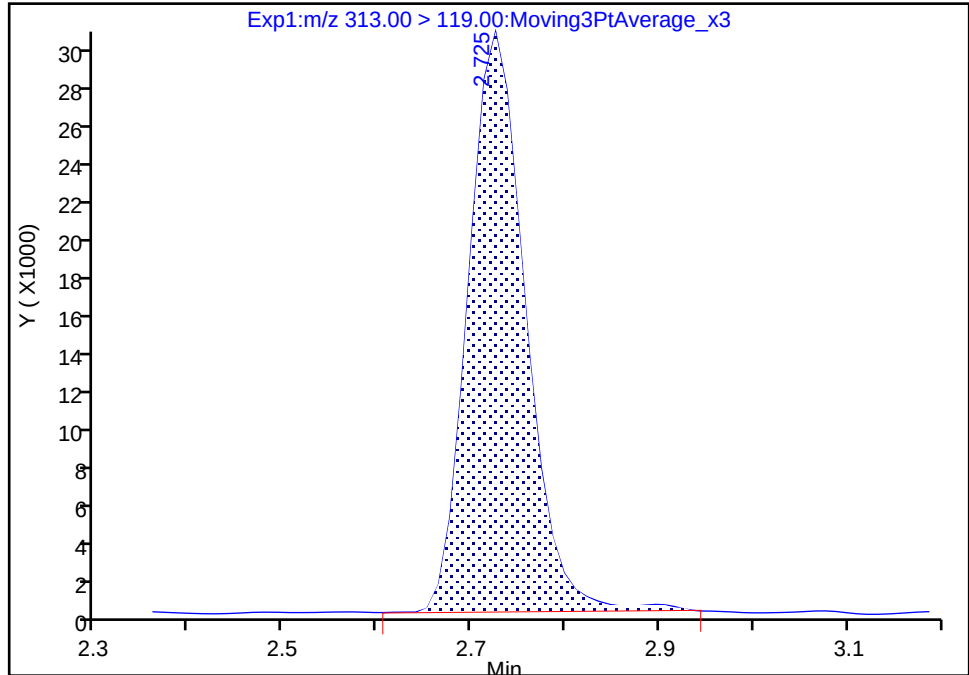
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

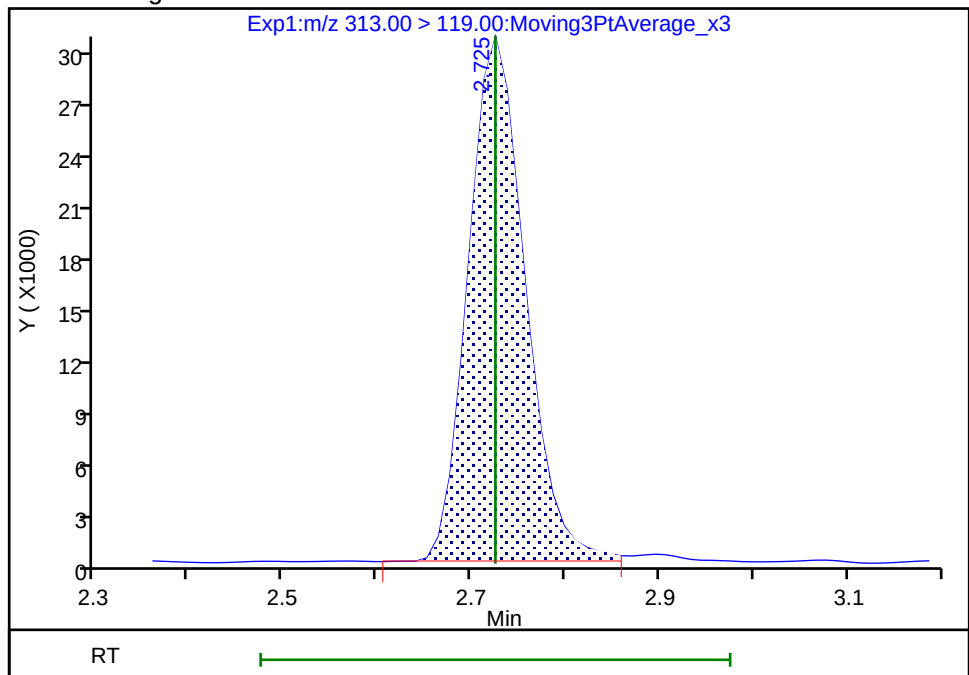
RT: 2.73
Area: 129704
Amount: 0.924651
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 128491
Amount: 0.896549
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

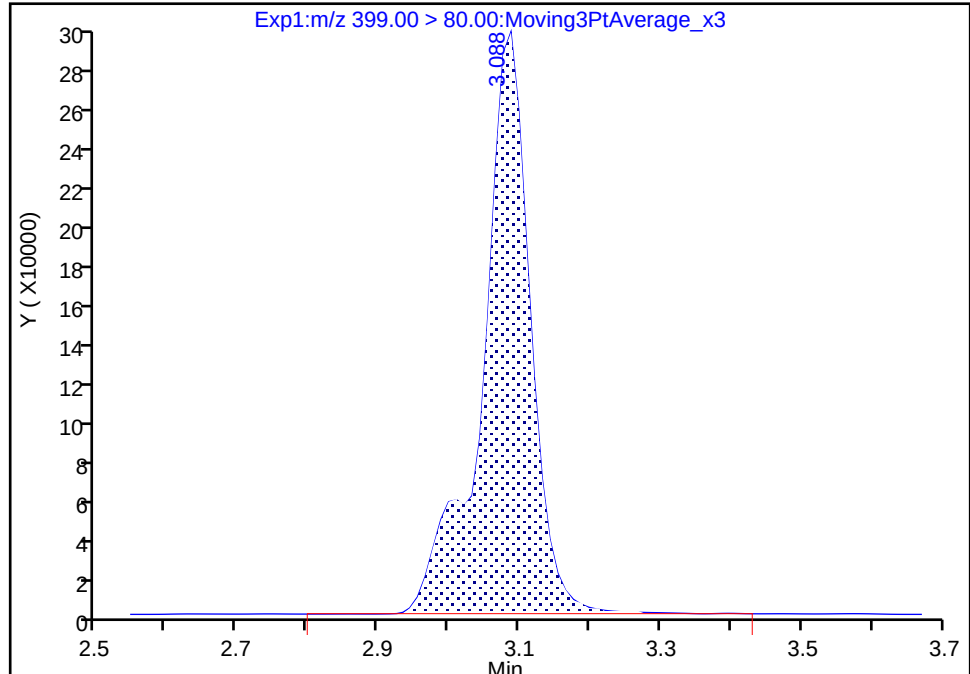
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Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

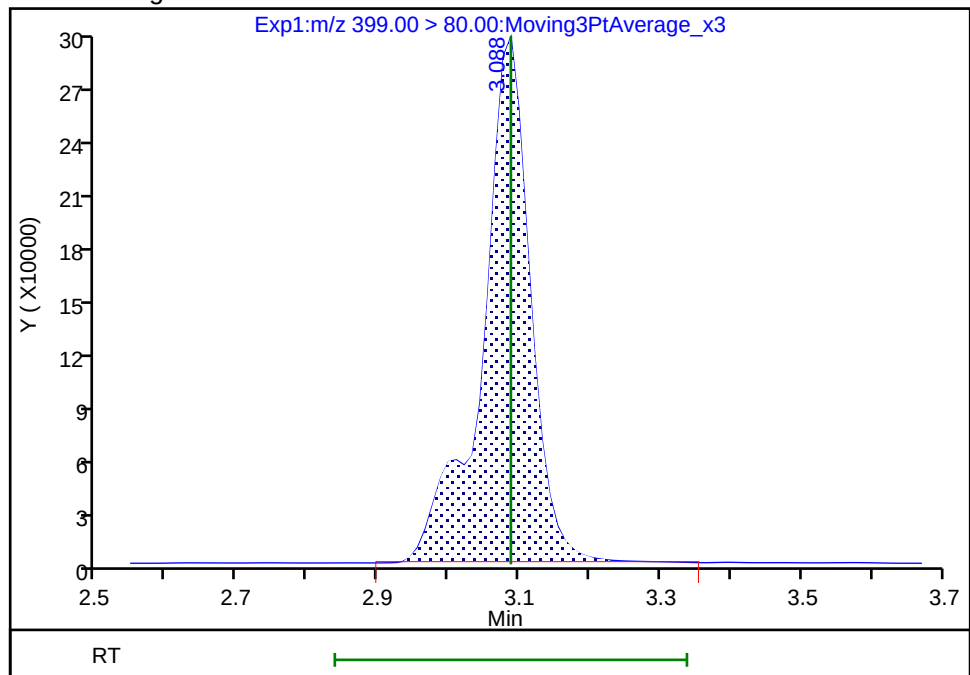
RT: 3.09
Area: 1403734
Amount: 0.856642
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1402426
Amount: 0.855844
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

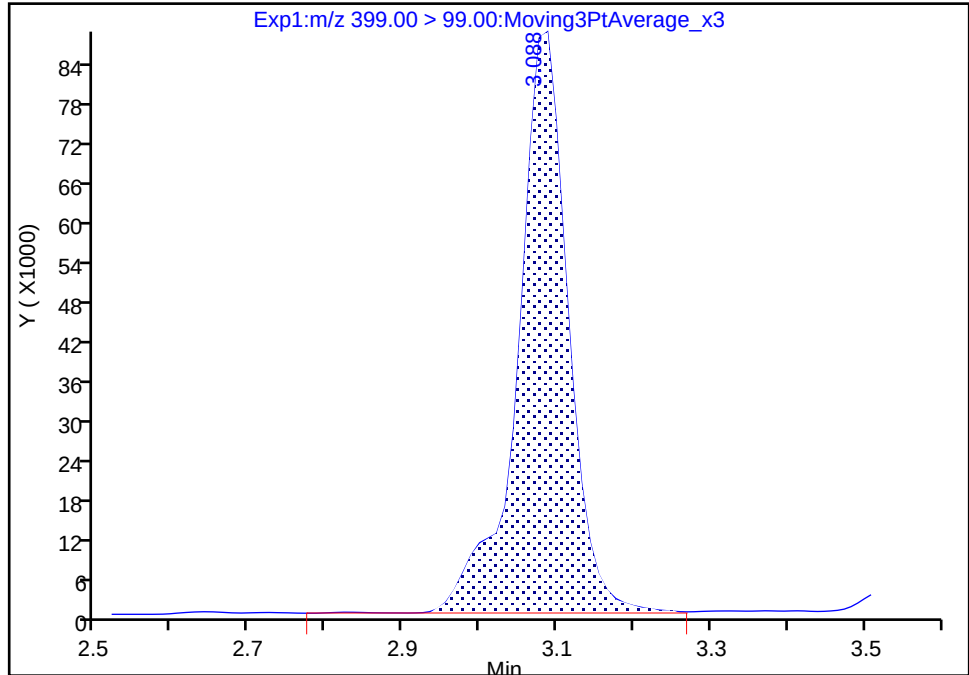
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

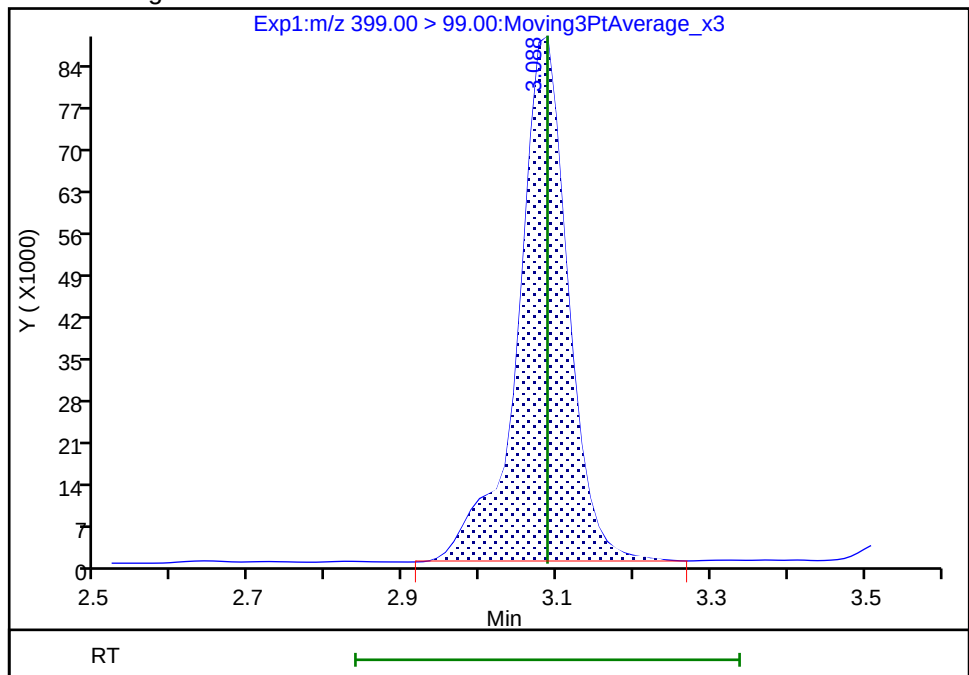
RT: 3.09
Area: 401622
Amount: 0.856642
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 400572
Amount: 0.855844
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

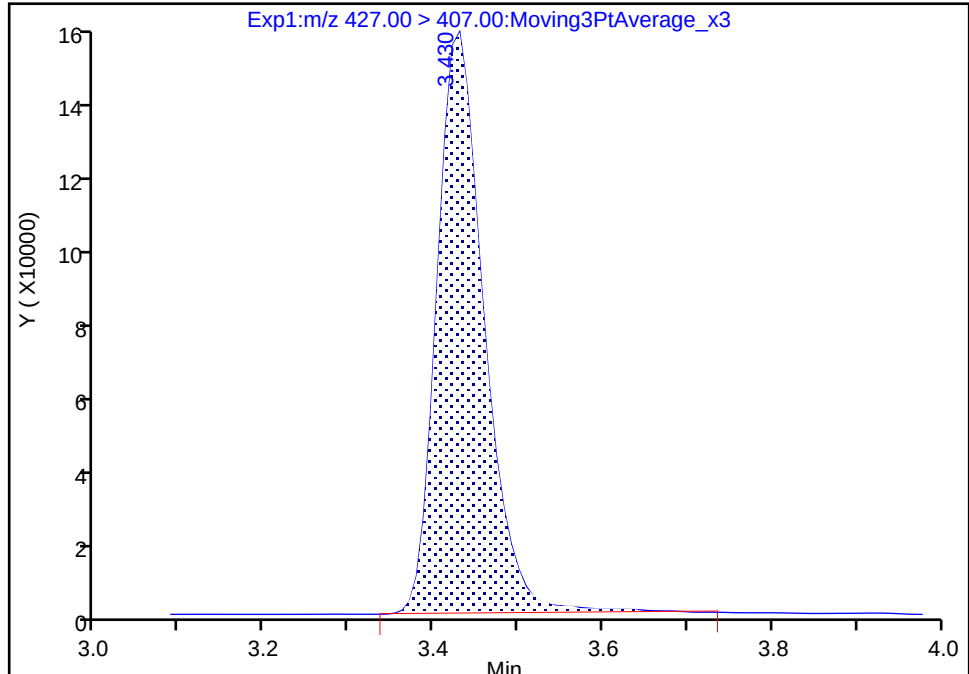
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Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

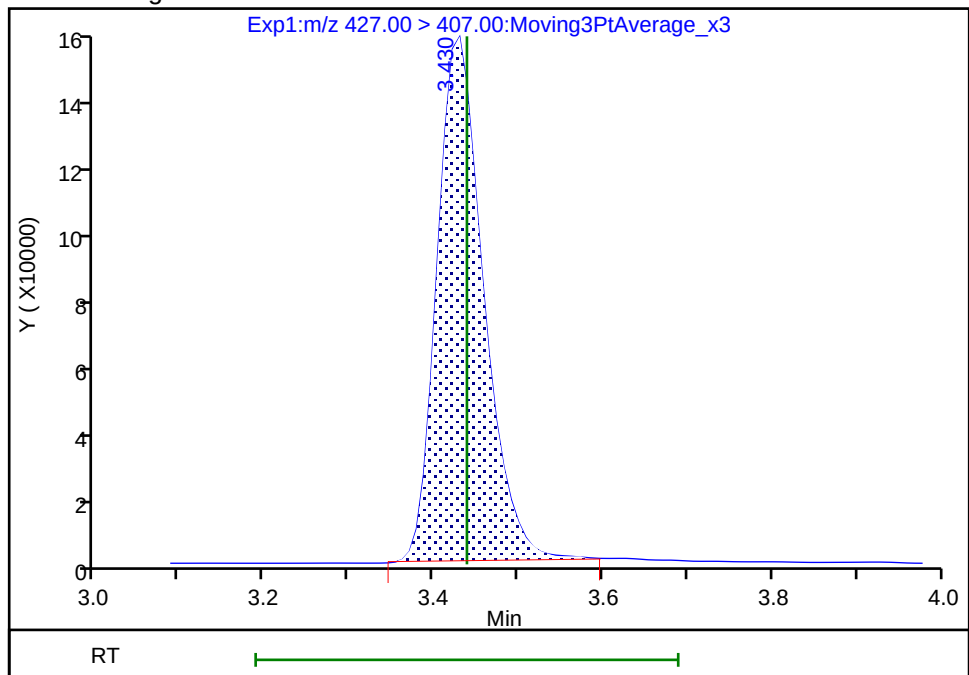
RT: 3.43
Area: 616903
Amount: 1.005218
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 603746
Amount: 0.983526
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

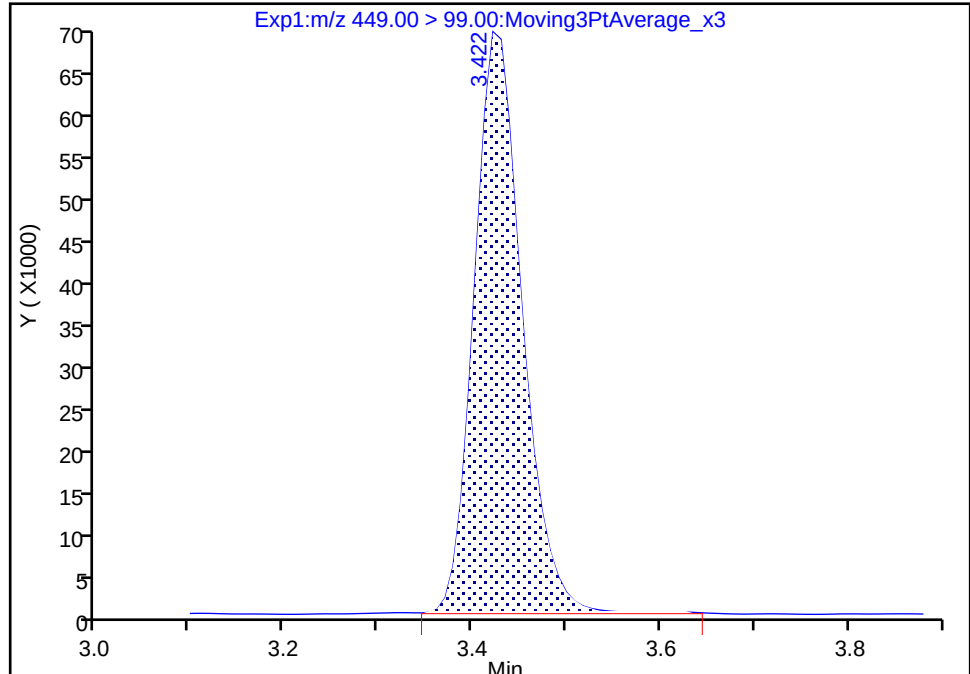
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

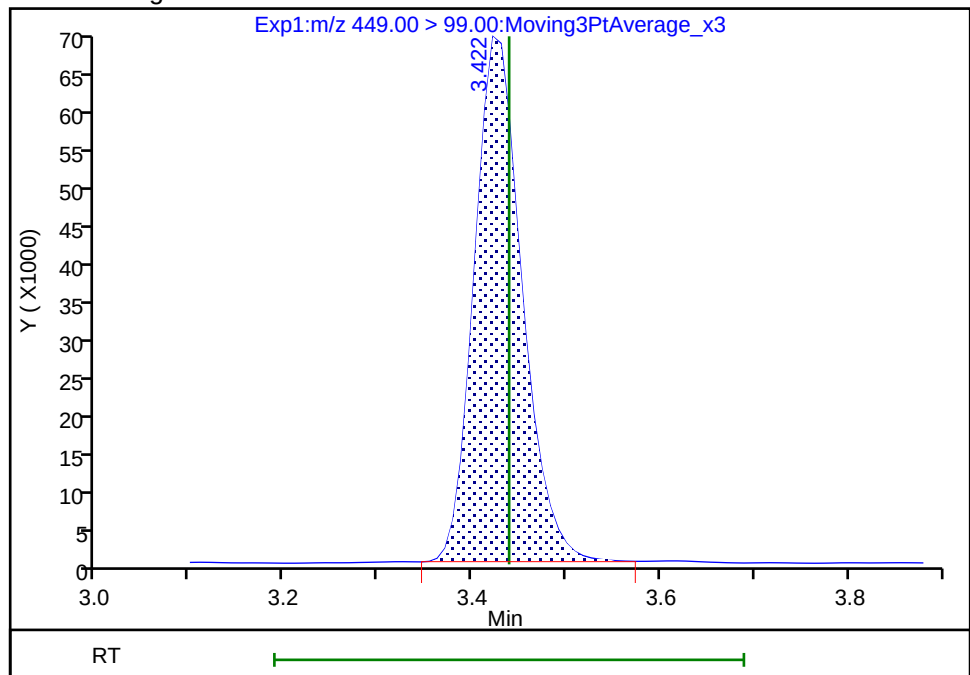
RT: 3.42
Area: 246333
Amount: 0.925938
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 244463
Amount: 0.923943
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

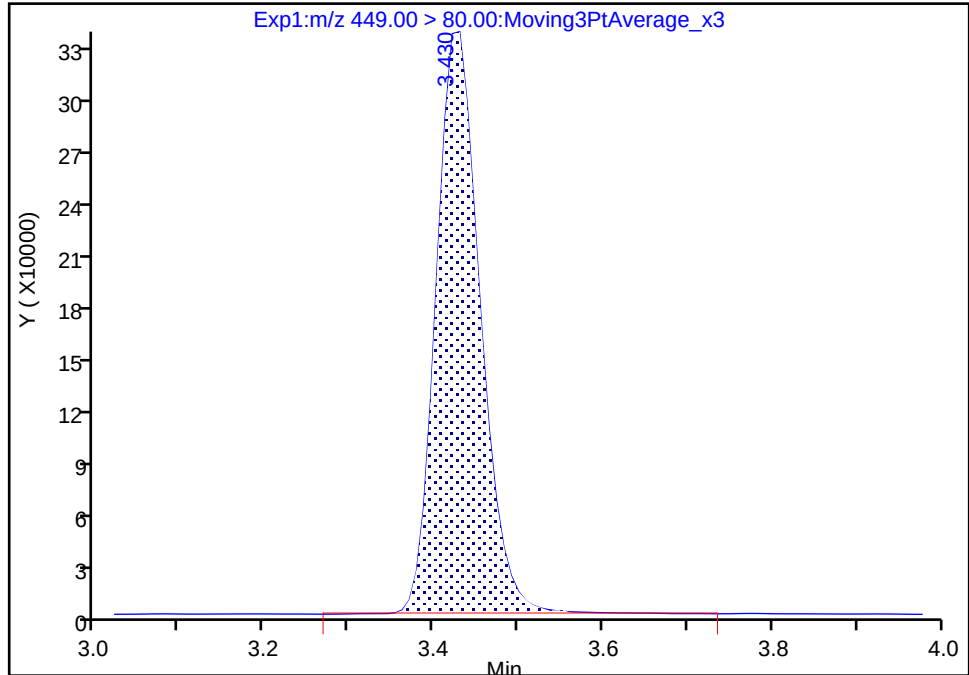
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

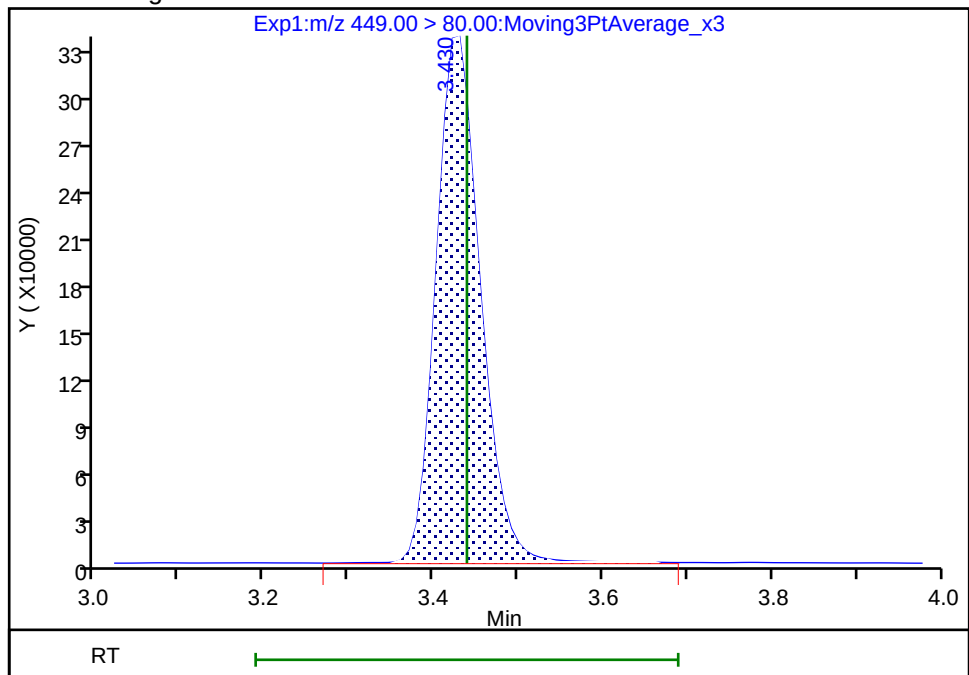
RT: 3.43
Area: 1205860
Amount: 0.925938
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1203262
Amount: 0.923943
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

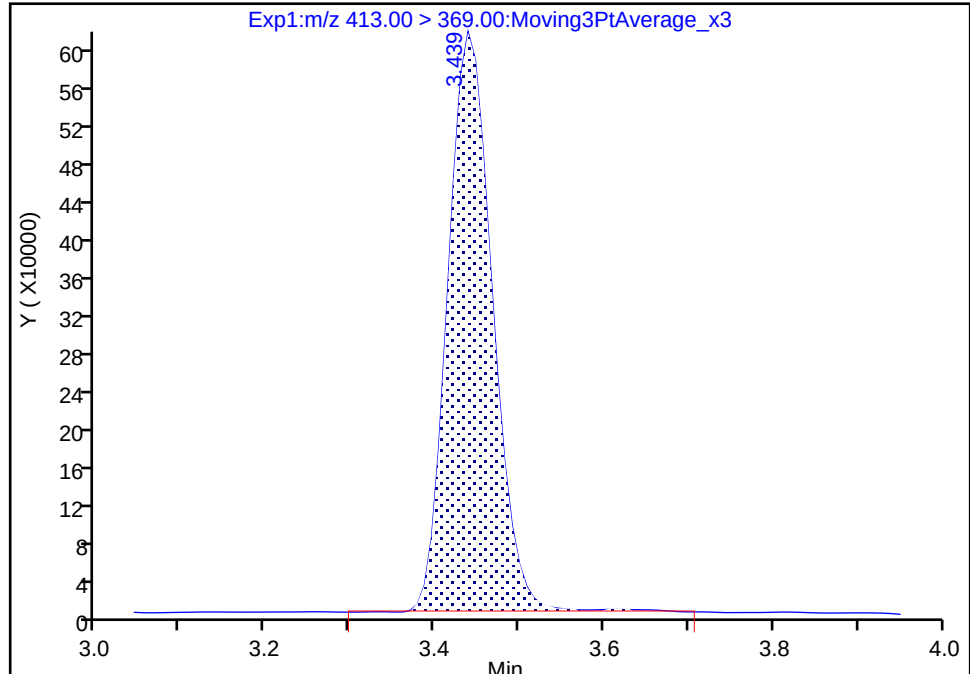
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

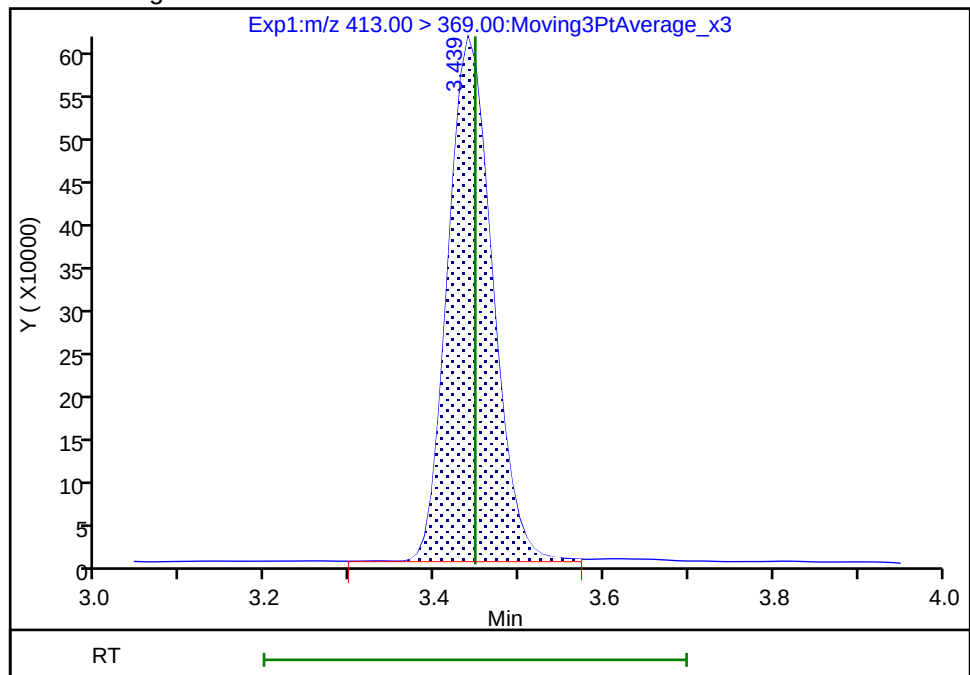
RT: 3.44
Area: 2235438
Amount: 0.936046
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2220746
Amount: 0.929894
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

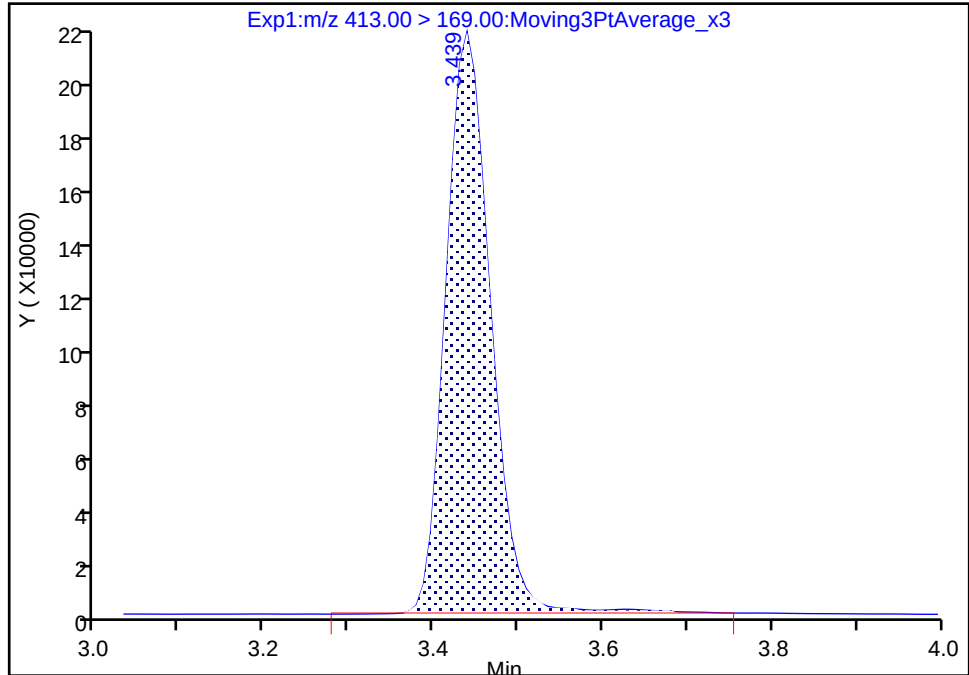
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Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

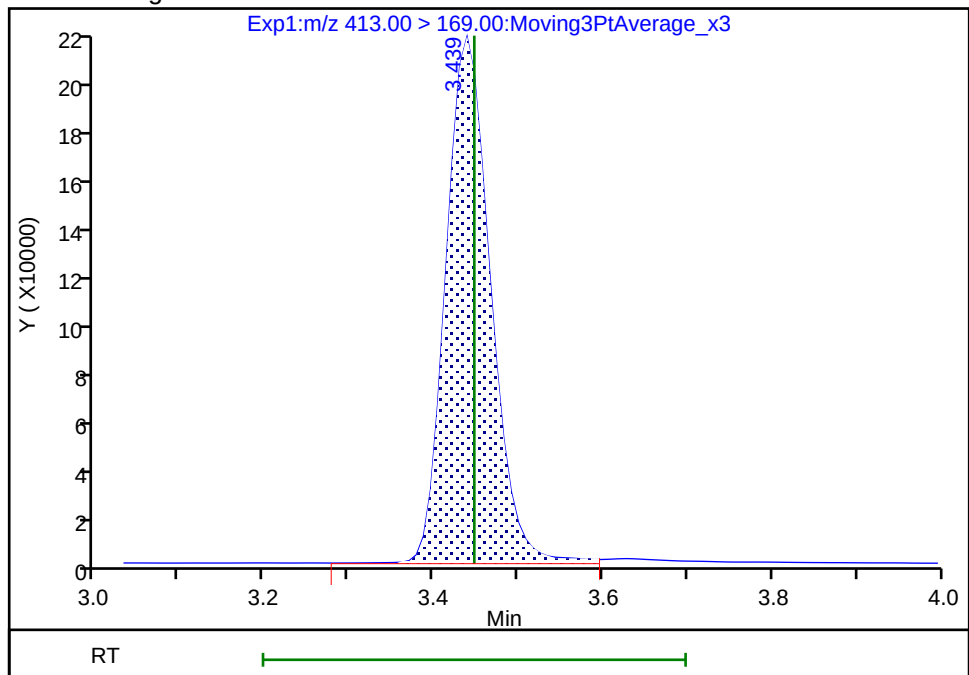
RT: 3.44
Area: 781822
Amount: 0.936046
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 774514
Amount: 0.929894
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:28:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

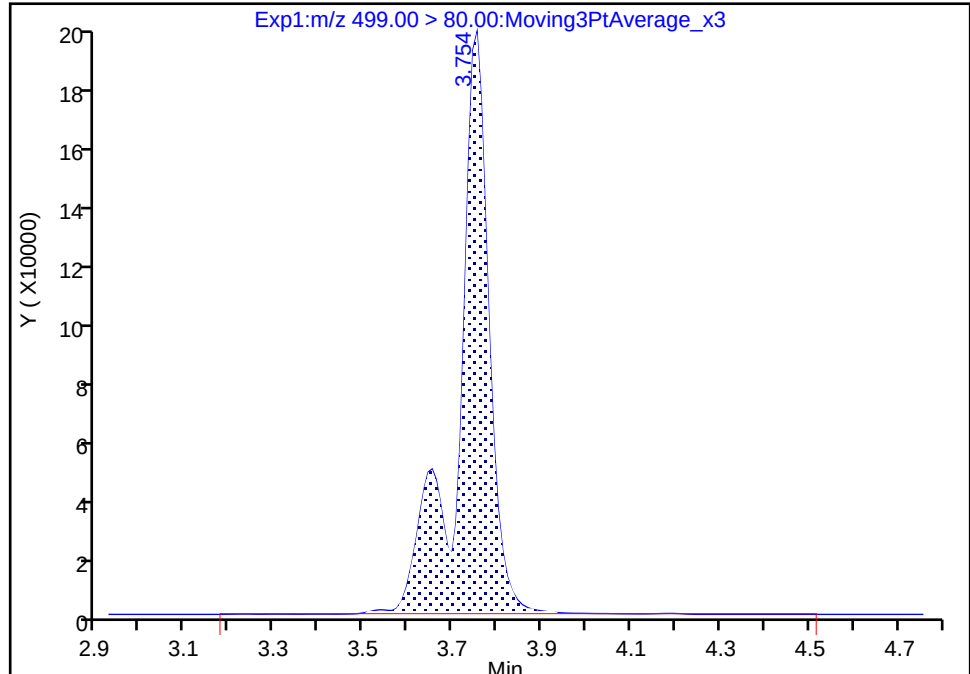
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Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

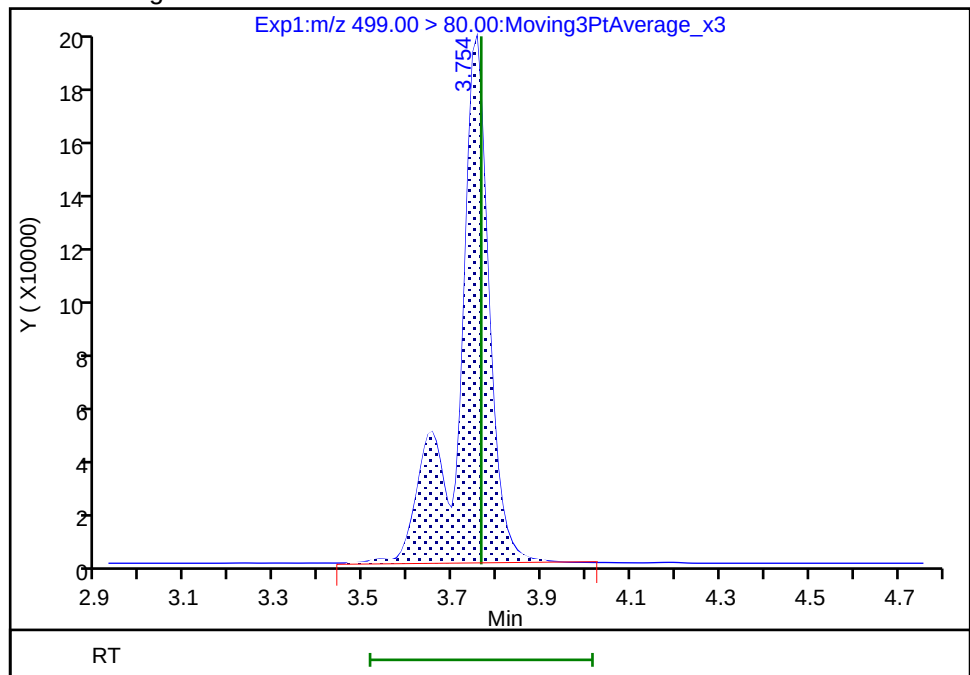
RT: 3.75
Area: 937130
Amount: 0.826438
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 927816
Amount: 0.818224
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:29:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

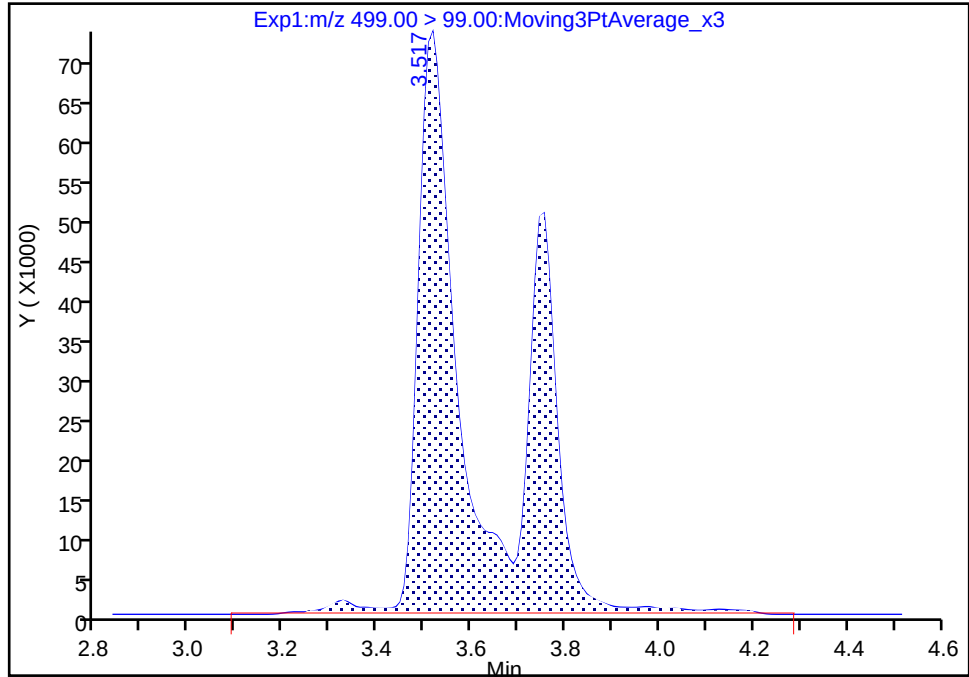
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

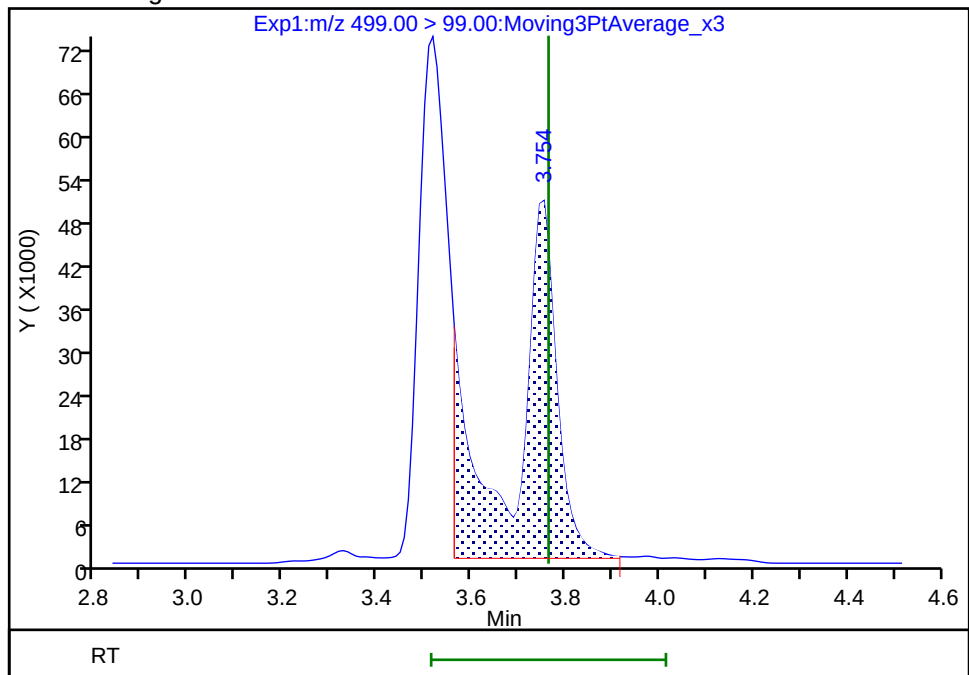
RT: 3.52
Area: 642105
Amount: 0.826438
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 299251
Amount: 0.818224
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 05-Jan-2023 11:51:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

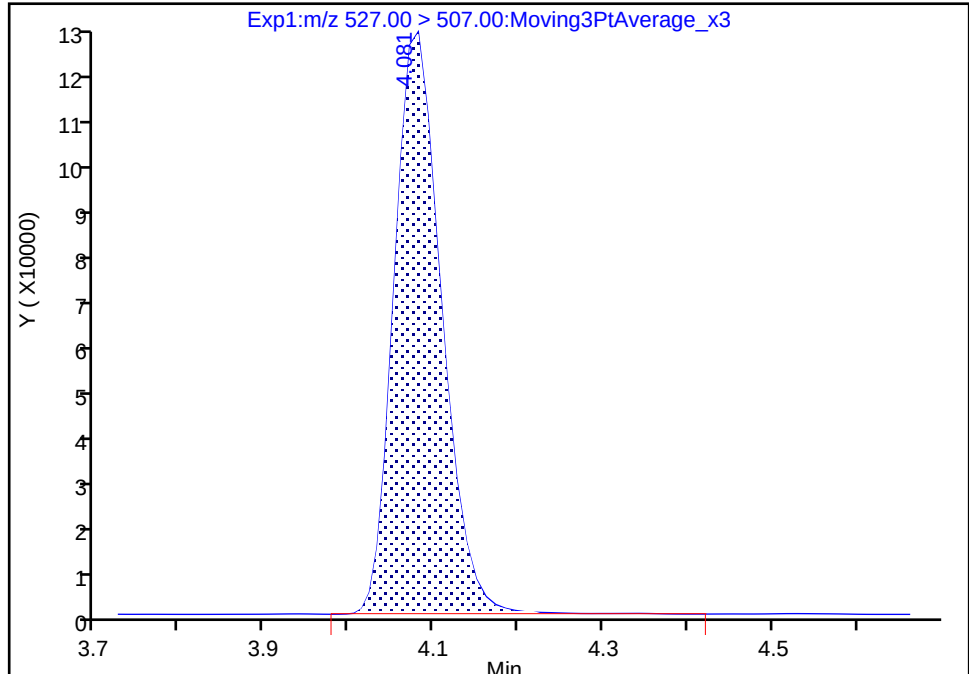
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

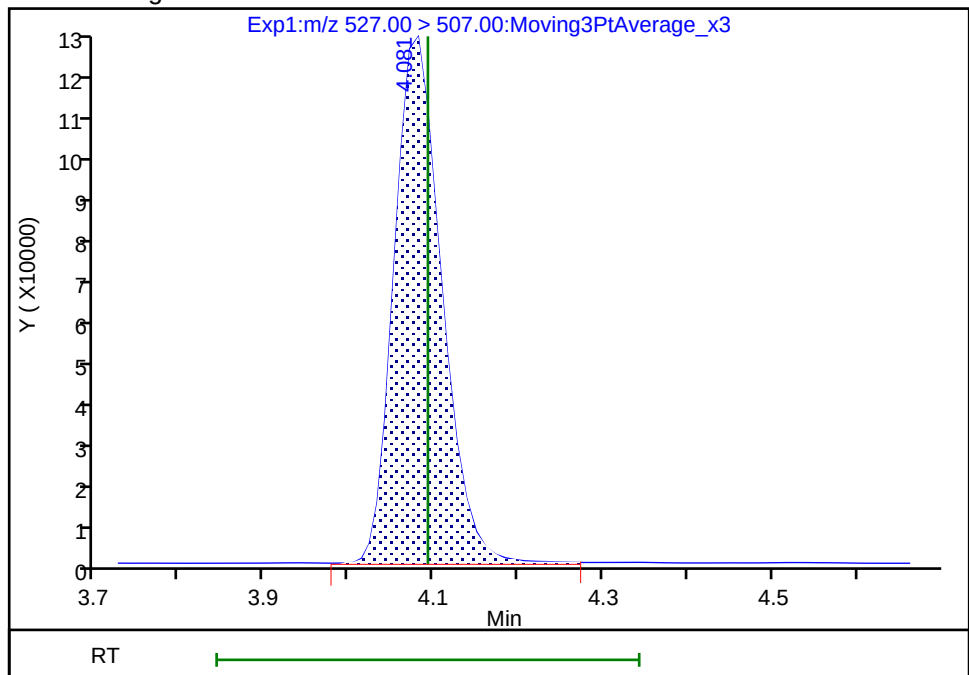
RT: 4.08
Area: 506808
Amount: 1.000830
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 505972
Amount: 0.999179
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:29:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

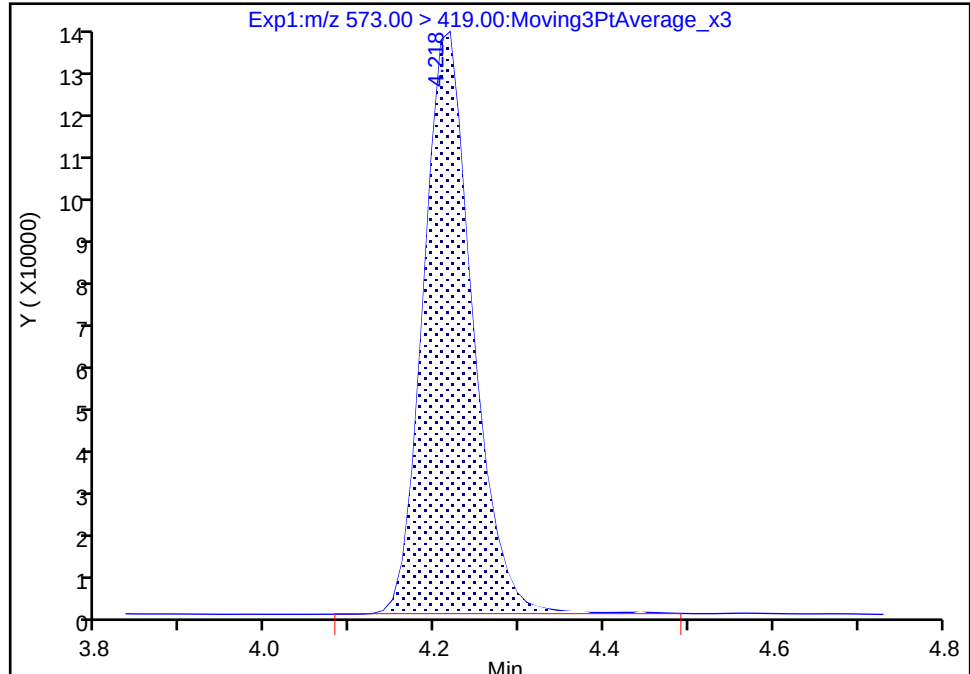
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

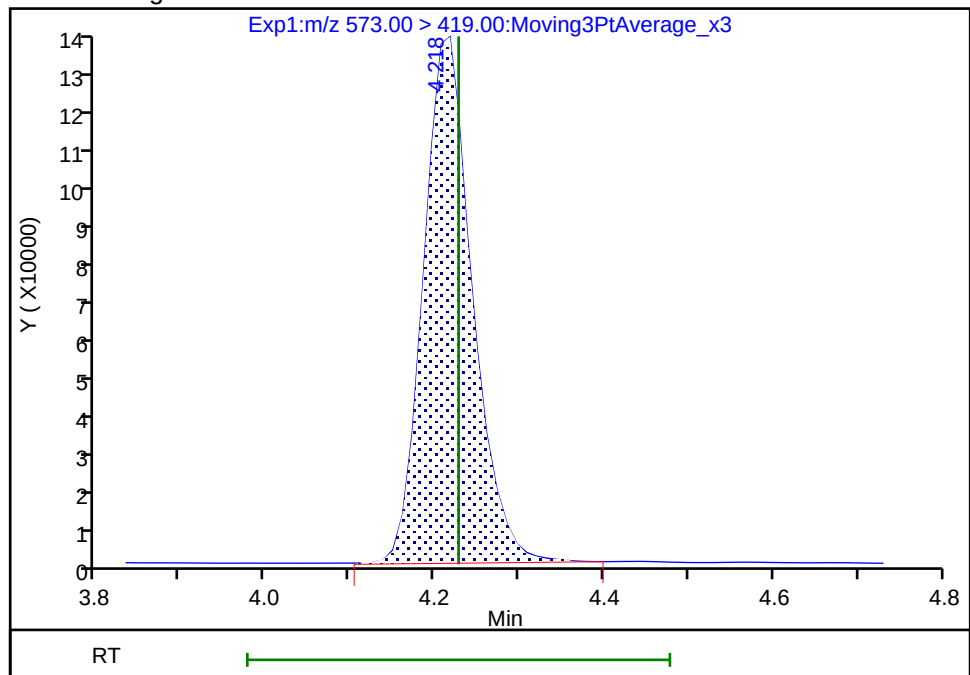
RT: 4.22
Area: 533966
Amount: 1.178401
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 533218
Amount: 1.176750
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:27:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

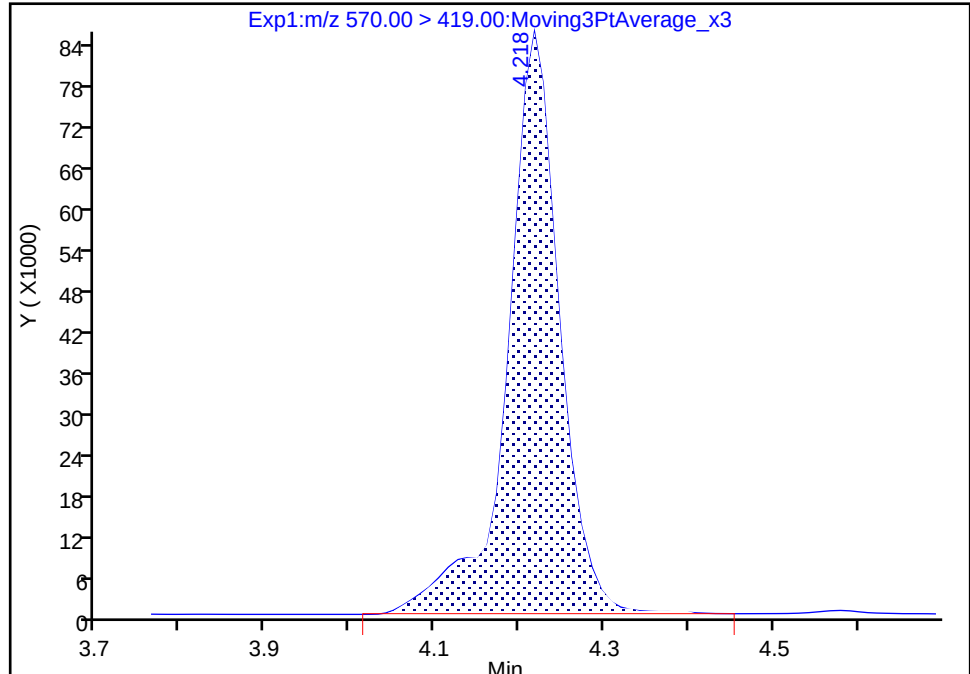
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

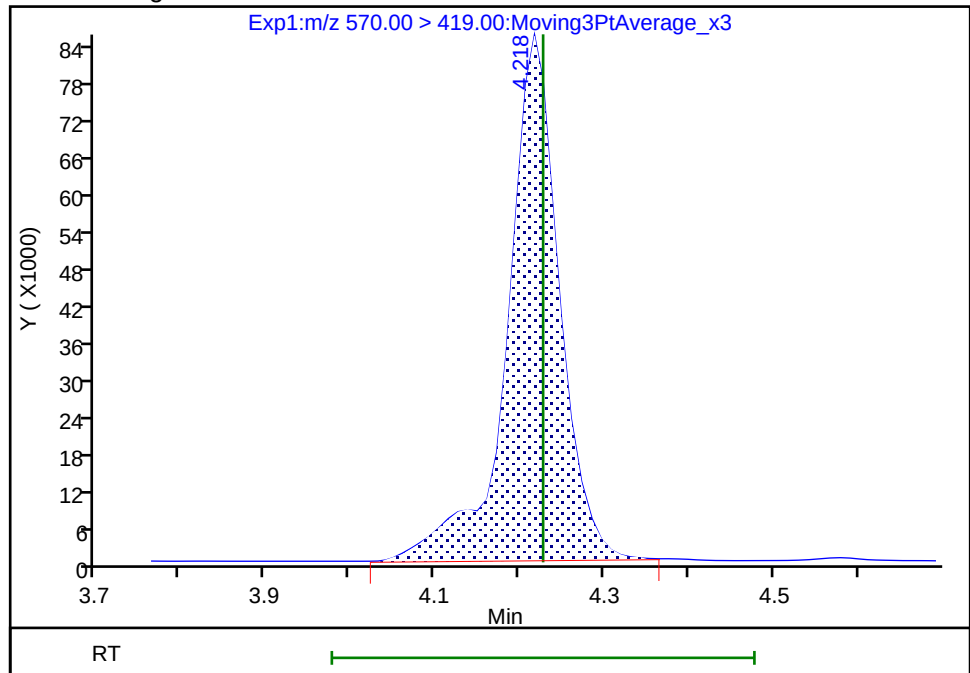
RT: 4.22
Area: 370254
Amount: 0.997355
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 368733
Amount: 0.993210
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:29:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

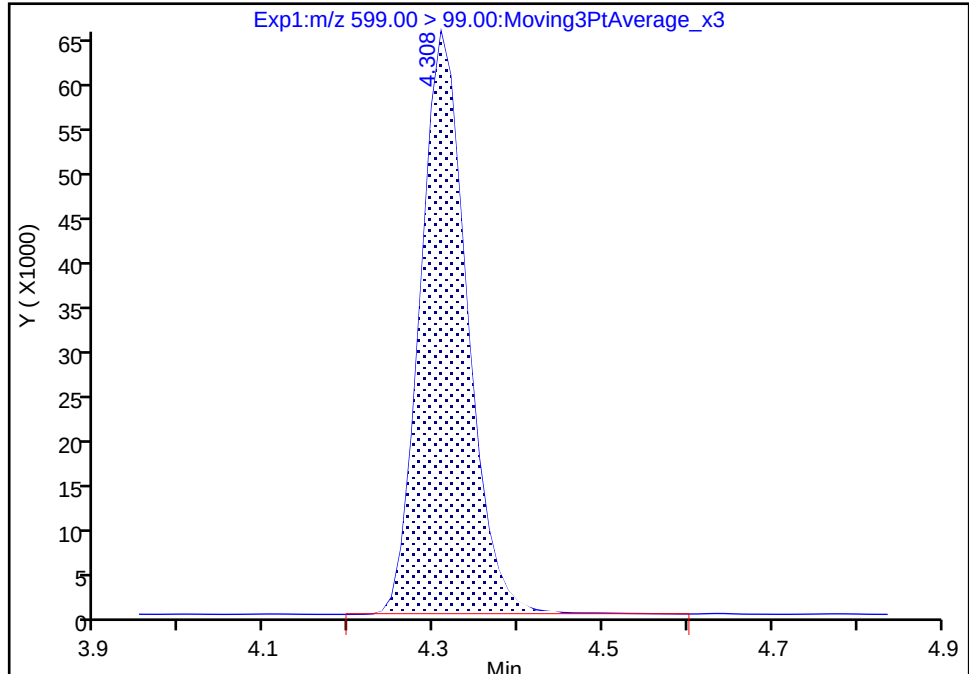
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

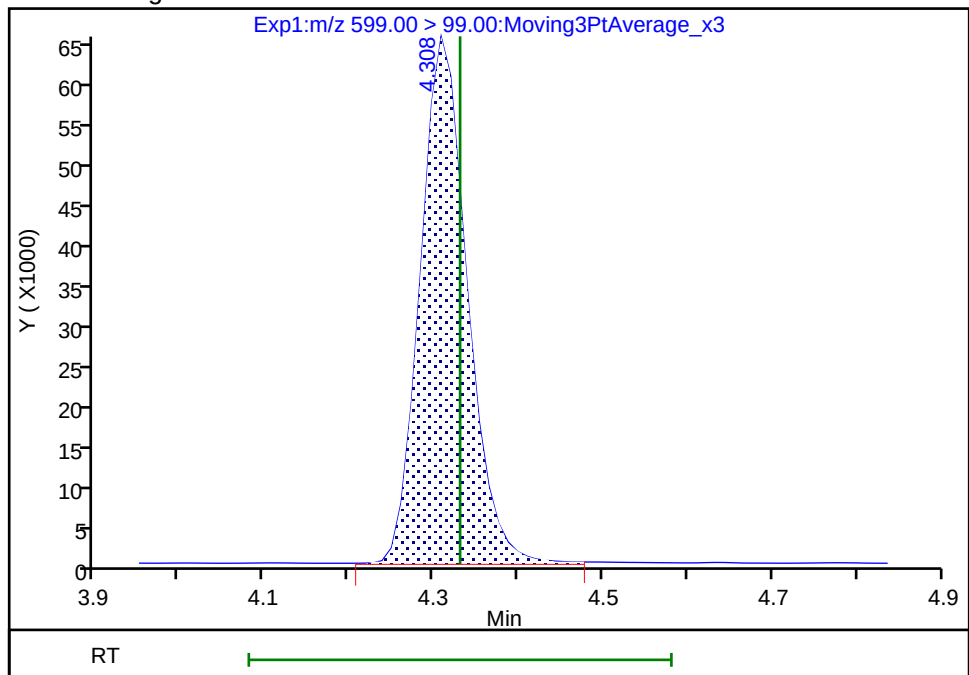
RT: 4.31
Area: 252625
Amount: 0.930012
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 251638
Amount: 0.930012
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:30:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

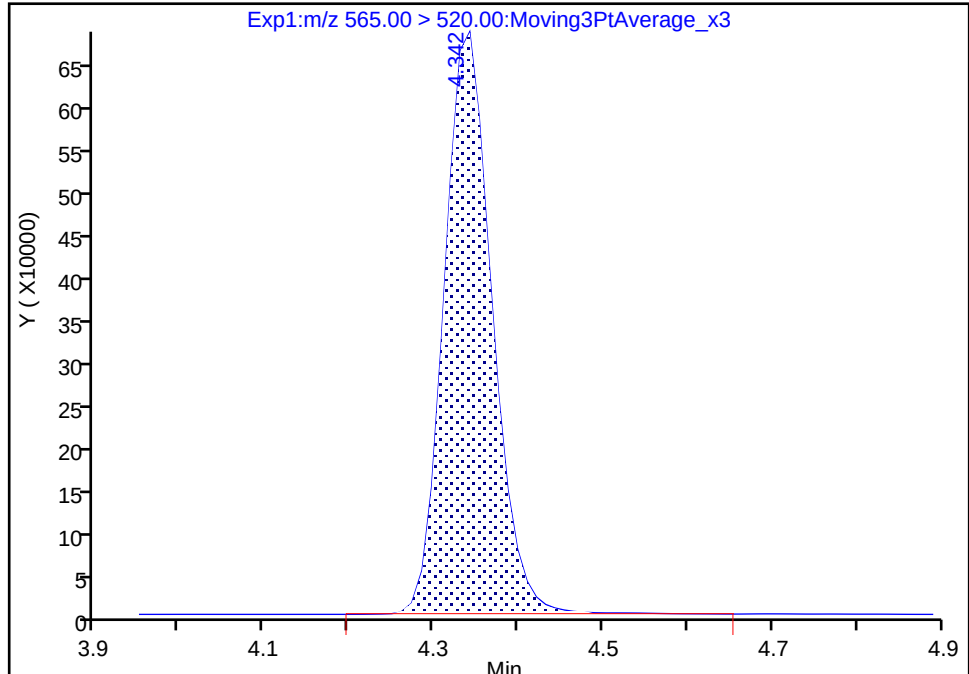
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

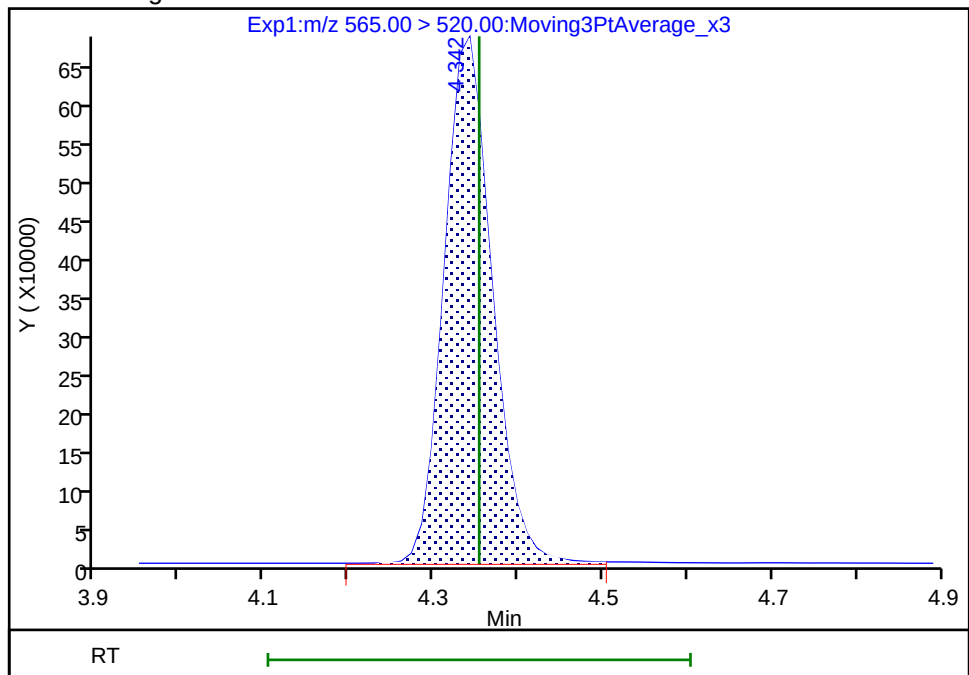
RT: 4.34
Area: 2695355
Amount: 1.322639
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 2688903
Amount: 1.319473
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:27:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

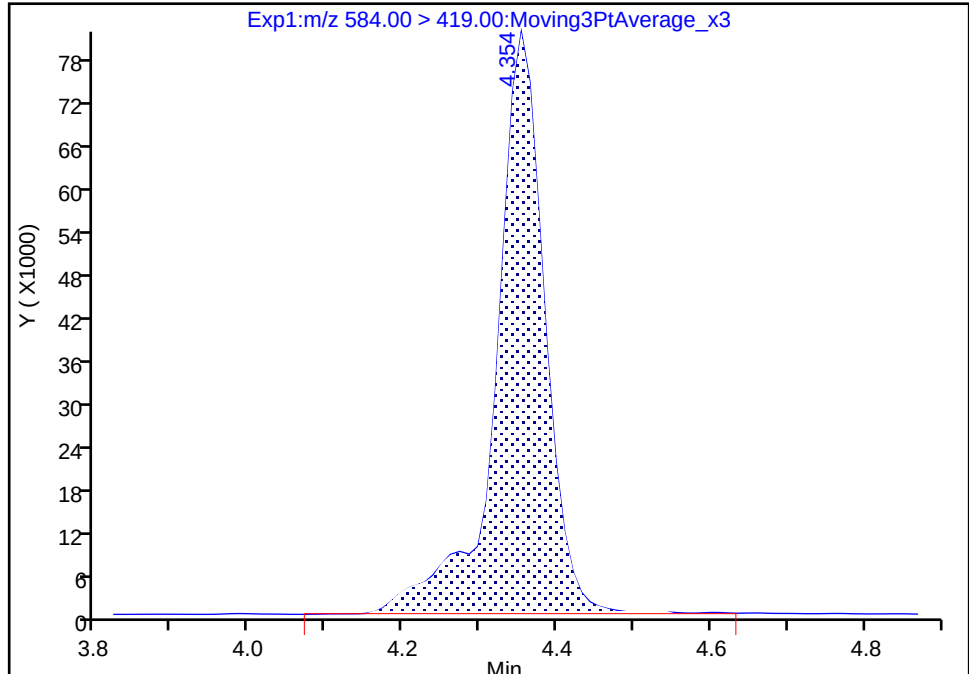
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

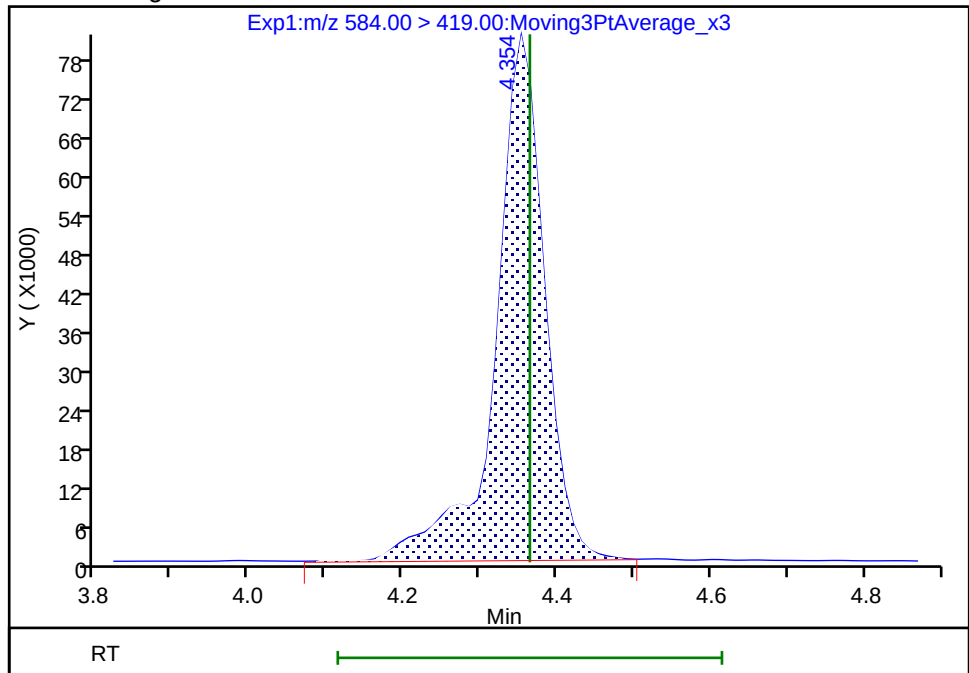
RT: 4.35
Area: 362483
Amount: 0.948073
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 361232
Amount: 0.944801
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:30:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

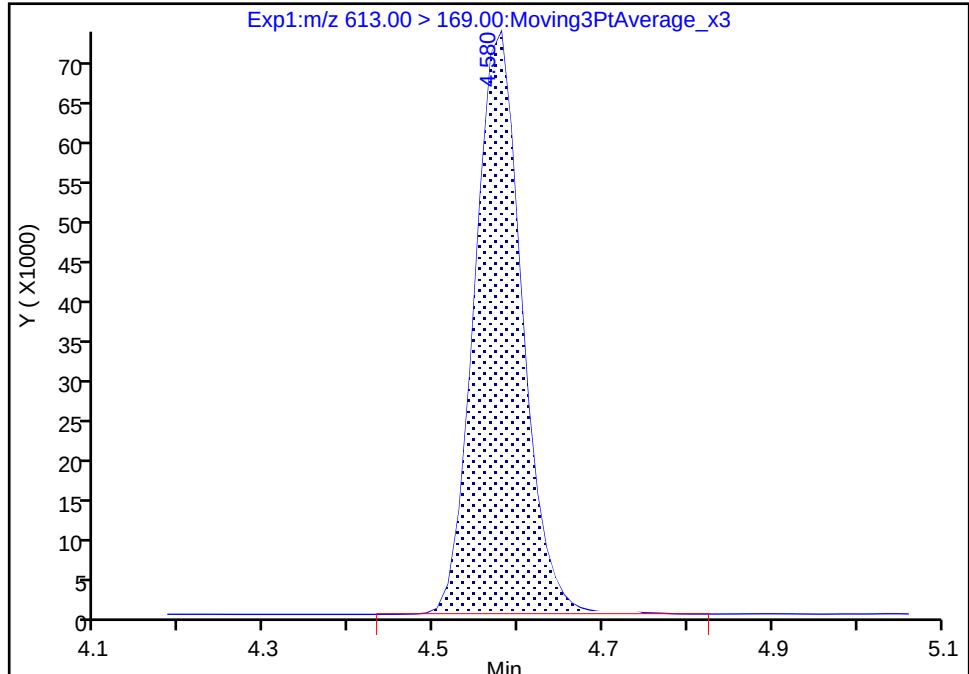
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

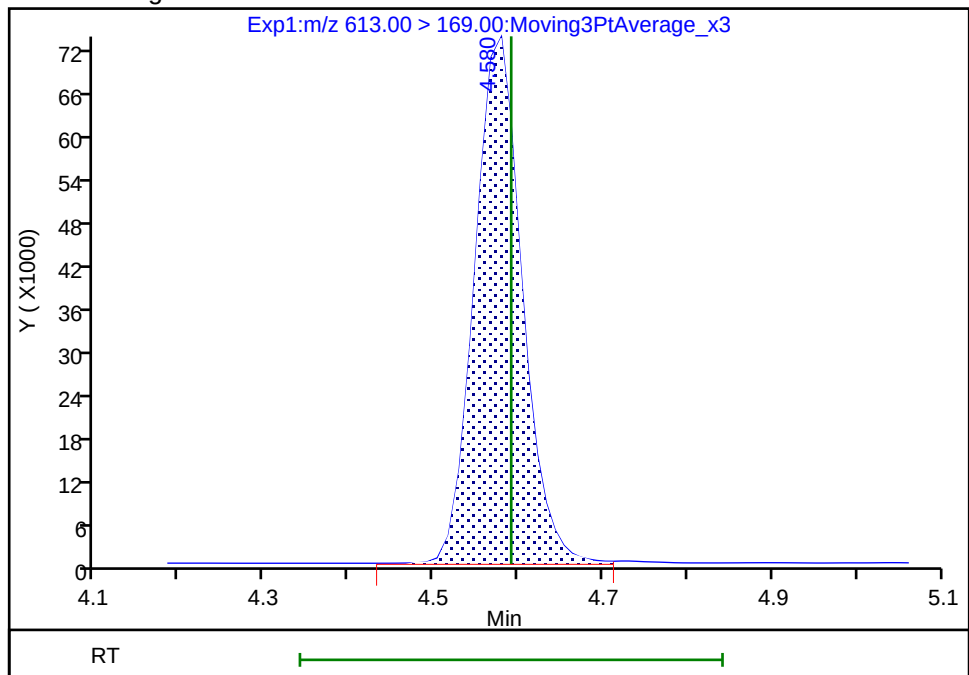
RT: 4.58
Area: 288940
Amount: 0.946489
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 288124
Amount: 0.946489
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:30:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

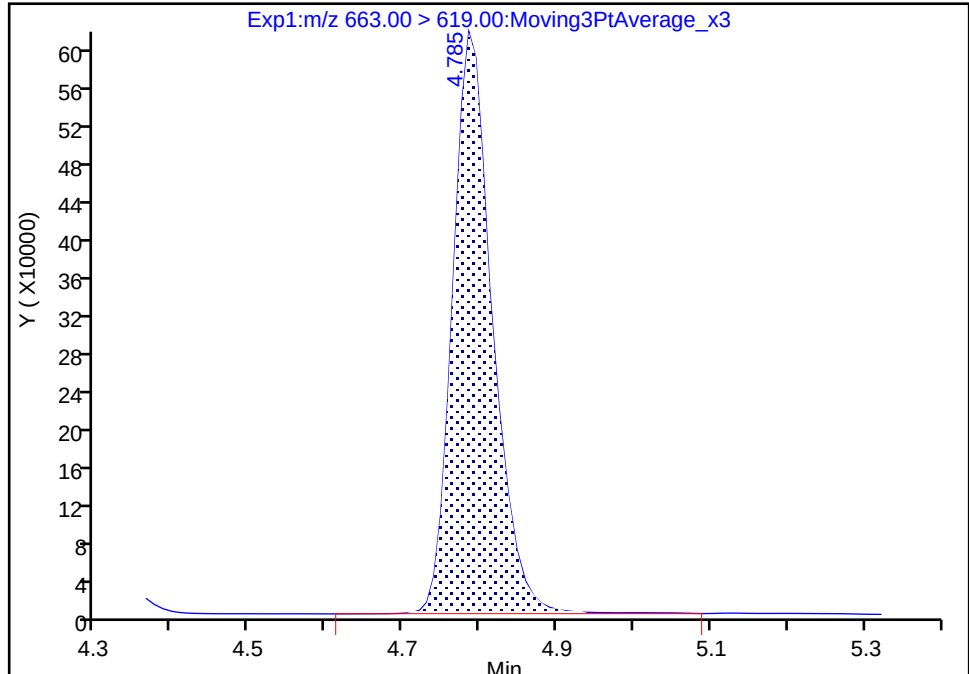
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

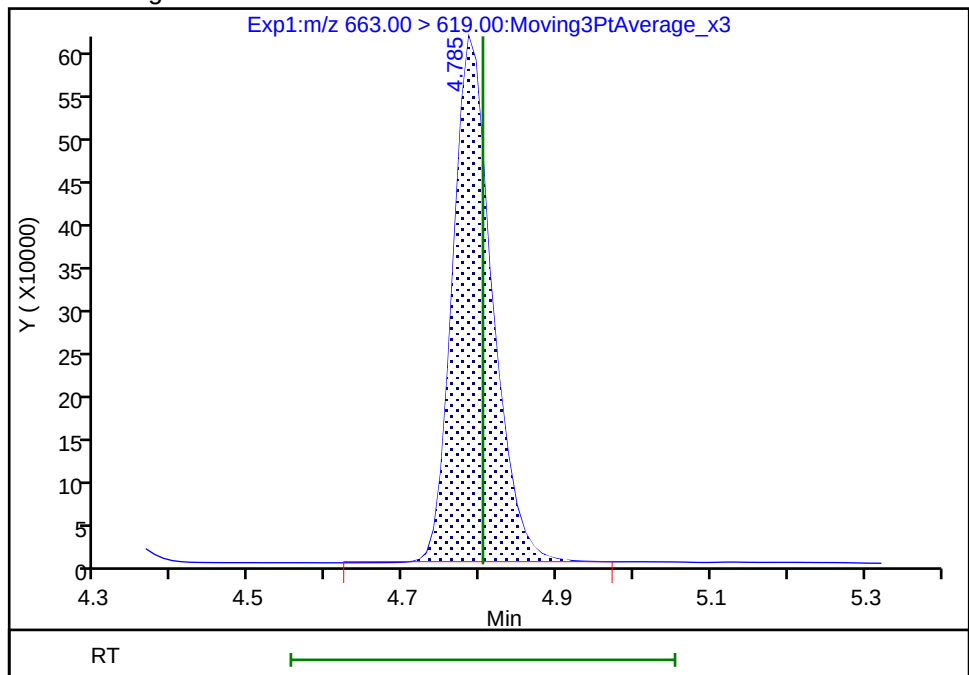
RT: 4.79
Area: 2207107
Amount: 1.012575
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 2195425
Amount: 1.007215
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:30:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

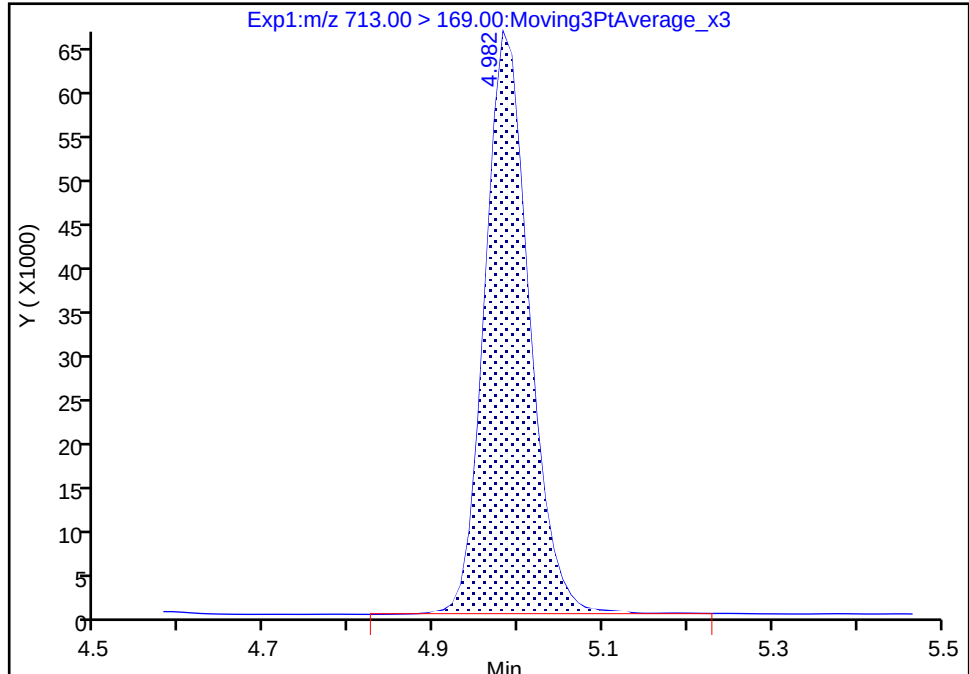
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

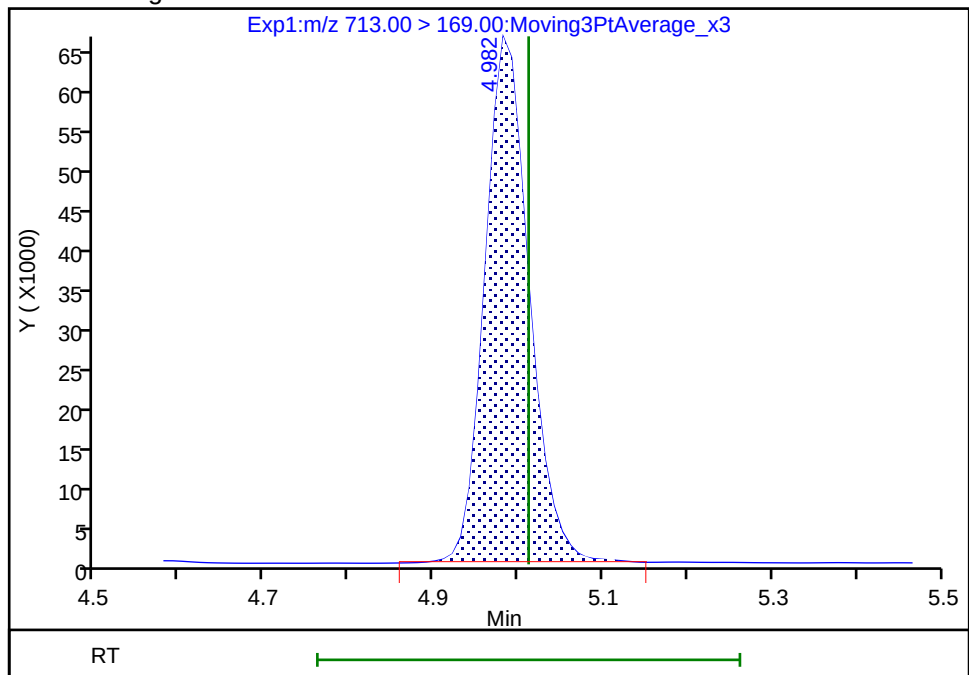
RT: 4.98
Area: 242878
Amount: 0.870005
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 242198
Amount: 0.867569
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:30:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

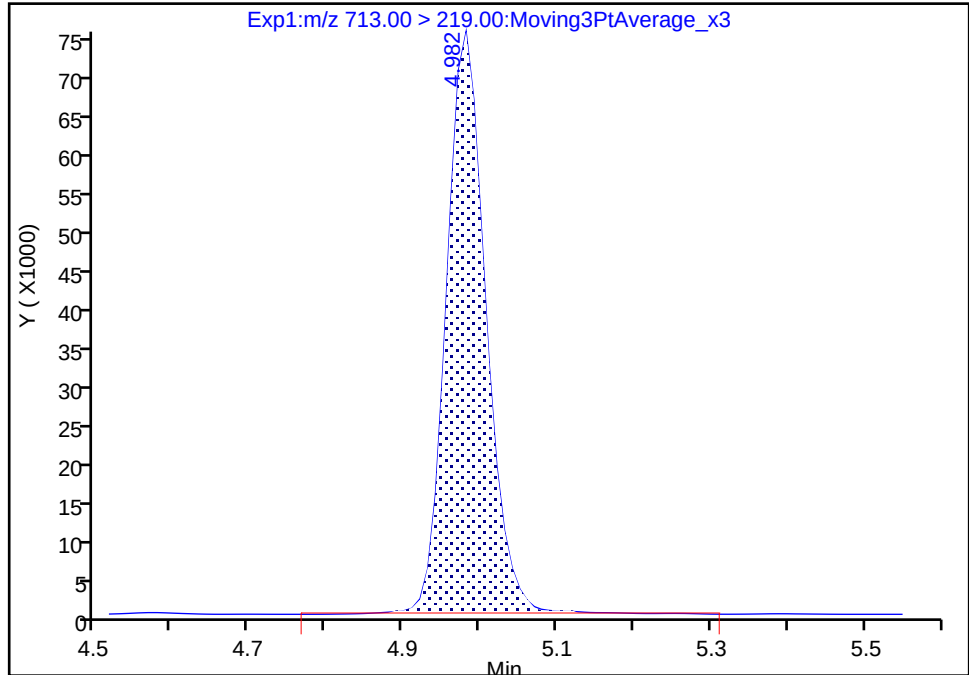
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

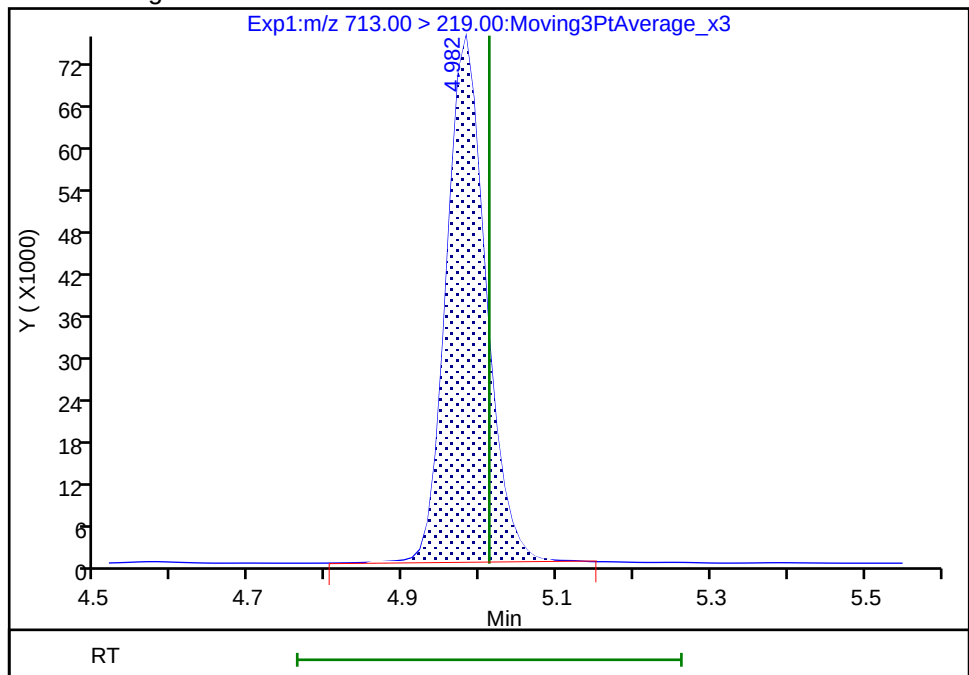
RT: 4.98
Area: 272741
Amount: 0.870005
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 269177
Amount: 0.867569
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:30:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

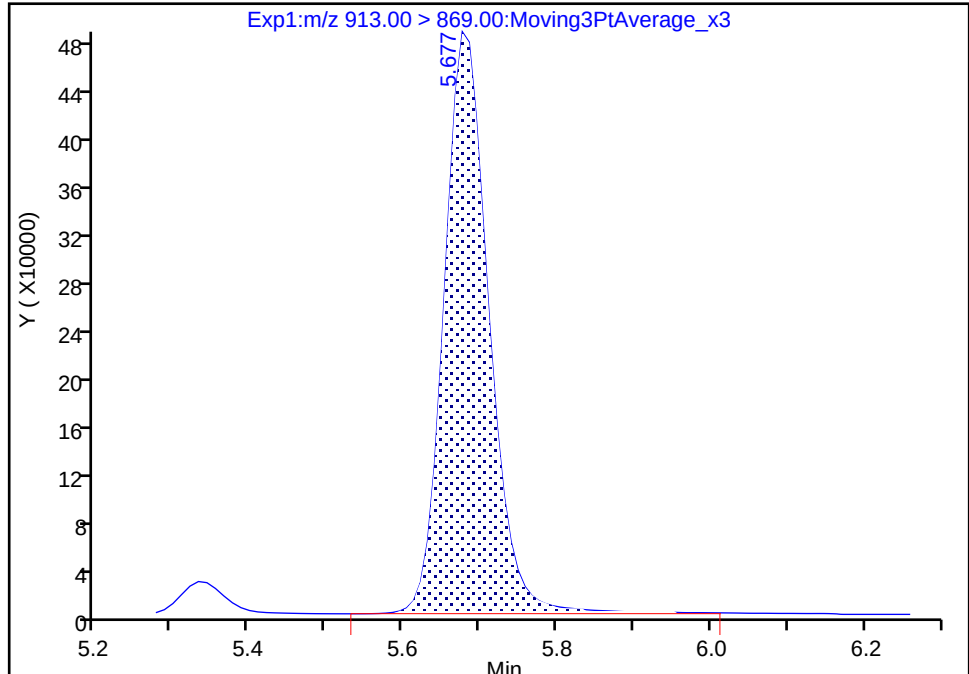
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A07.d
Injection Date: 04-Jan-2023 15:34:32 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

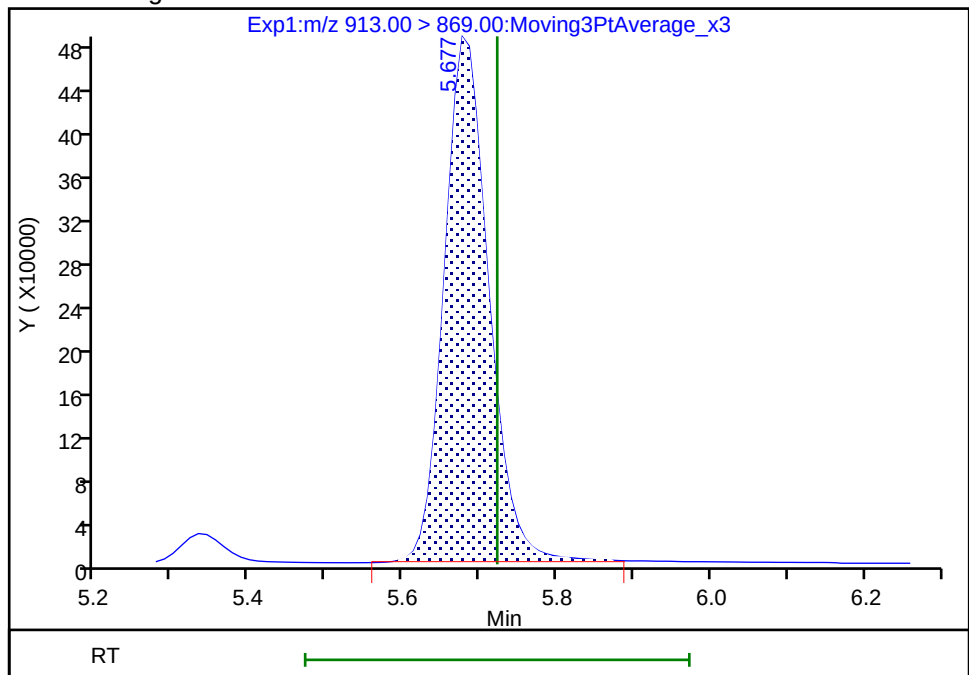
RT: 5.68
Area: 1959524
Amount: 0.970235
Amount Units: ng/ml

Processing Integration Results



RT: 5.68
Area: 1942449
Amount: 0.961781
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:30:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCV 200-187252/21 Calibration Date: 01/04/2023 17:28

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230104A21.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.8977		2.18	2.50	-12.9	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.031		2.37	2.50	-5.4	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.052		2.03	2.21	-8.1	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.857		2.17	2.34	-7.3	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9365		2.15	2.50	-14.1	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.242		2.18	2.35	-7.0	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9815		2.32	2.50	-7.0	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.044		2.10	2.28	-7.5	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9595		2.20	2.50	-11.9	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.002		2.14	2.36	-9.2	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.358		2.31	2.38	-2.8	
6:2 FTS	L1ID		2.116		2.36	2.37	-0.3	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9898		2.32	2.50	-7.4	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.073		2.05	2.32	-11.8	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9361		2.26	2.50	-9.8	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.818		2.35	2.33	1.0	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8357		2.19	2.40	-9.0	
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.014		2.34	2.50	-6.5	
8:2 FTS	AveID	1.617	1.696		2.51	2.40	4.9	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9456		2.26	2.50	-9.5	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8592		2.49	2.50	-0.6	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6614		2.20	2.41	-8.7	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9461		2.35	2.50	-6.1	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8463		2.36	2.50	-5.5	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.282		2.34	2.36	-0.5	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9026		2.13	2.50	-14.8	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.014		2.51	2.41	4.3	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2944		2.32	2.42	-4.0	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187252/21 Calibration Date: 01/04/2023 17:28
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA230104A21.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9358		2.31	2.50	-7.6	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1190		2.17	2.50	-13.1	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8507		2.30	2.50	-8.2	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8293		2.52	2.50	0.7	
13C4 PFBA	Ave	1.122	1.085		1.21	1.25	-3.3	
13C5 PFPeA	Ave	0.8543	0.8043		1.18	1.25	-5.9	
13C3 PFBS	Ave	0.9281	0.8893		1.11	1.16	-4.2	
M2-4:2 FTS	Ave	0.0820	0.0868		1.24	1.17	5.9	
13C2 PFHxA	Ave	0.8951	0.8898		1.24	1.25	-0.6	
13C3 HFPO-DA	Ave	0.1580	0.1570		1.24	1.25	-0.6	
13C4 PFHpA	Ave	0.9206	0.9391		1.28	1.25	2.0	50.0
18O2 PFHxS	Ave	0.6761	0.6961		1.22	1.18	3.0	50.0
M2-6:2 FTS	Ave	0.1134	0.1285		1.35	1.19	13.3	
13C4 PFOA	Ave	1.035	1.046		1.26	1.25	1.0	50.0
13C4 PFOS	Ave	0.4588	0.4670		1.22	1.20	1.8	50.0
13C5 PFNA	Ave	1.006	1.080		1.34	1.25	7.4	50.0
13C2 PFDA	Ave	1.025	1.112		1.36	1.25	8.5	
M2-8:2 FTS	Ave	0.1387	0.1433		1.24	1.20	3.4	
13C8 FOSA	Ave	0.8403	0.8717		1.30	1.25	3.7	
d3-NMeFOSAA	Ave	0.2087	0.2170		1.30	1.25	4.0	
13C2 PFUnA	Ave	0.9385	1.042		1.39	1.25	11.0	
d5-NEtFOSAA	Ave	0.2055	0.2119		1.29	1.25	3.1	
13C2 PFDoA	Ave	0.9562	1.067		1.39	1.25	11.6	
13C2 PFTeDA	Ave	0.8270	0.9747		1.47	1.25	17.9	
13C2 PFHxDA	Ave	1.022	1.275		1.56	1.25	24.7	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Jan-2023 17:28:58 ALS Bottle#: 18 Worklist Smp#: 21
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0053892-021 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 08:38:04 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: nampitakw

Date: 05-Jan-2023 16:55:45

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	2.076	0.0	0.602	2874849	1.21		96.7	7185	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	5161672	2.18		87.1	320	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2130843	1.18		94.1	1423	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	4394445	2.37		94.6	33.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.696	2191292	1.11		95.8	109225	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	4381916	2.03	Target=2.09	91.9	1458	
298.90 > 99.00	2.400	2.400	0.0	1.000	2143735		2.04(1.04-3.13)		350	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	1227856	2.17		92.7	2228	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.780	214876	1.24		106	116	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2357355	1.24		99.4	4711	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	4415267	2.15	Target=14.25	85.9	258	M
313.00 > 119.00	2.725	2.725	0.0	1.000	329888		13.38(7.12-21.37)		280	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.738	2.737	0.001	0.887	4297075	2.18	Target=3.04	93.0	1658	
349.00 > 99.00	2.738	2.737	0.001	0.887	1427844		3.01(1.52-4.56)		930	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	816436	2.32		93.0	2845	

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	2.835	0.0	0.822	415909	1.24		99.4	2223	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1744765	1.22		103	3315	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	3503514	2.10	Target=3.66	92.5	1708	M
399.00 > 99.00	3.088	3.088	0.0	1.000	1017857		3.44(1.83-5.49)		726	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	2487964	1.28		102	4159	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.004	4774570	2.20	Target=3.97	88.1	388	M
363.00 > 169.00	3.099	3.099	0.0	1.004	1223189		3.90(1.98-5.95)		1099	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	11659100	2.14	Target=3.16	90.8	3840	M
377.00 > 85.00	3.132	3.132	0.0	0.832	3811467		3.06(1.58-4.73)		3244	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	323347	1.35		113	592	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	1365595	2.36		99.7	2069	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.911	3199125	2.31	Target=5.14	97.2	3006	M
449.00 > 99.00	3.430	3.439	-0.009	0.911	635797		5.03(2.57-7.72)		1014	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2770000	1.26		101	6180	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2649443	1.25			7618	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	5483388	2.31	Target=2.79	92.6	330	M
413.00 > 169.00	3.448	3.448	0.0	1.000	1993672		2.75(1.40-4.19)		1444	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1182848	1.22		102	1643	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.764	0.0	1.000	2463212	2.05	Target=5.11	88.2	1533	M
499.00 > 99.00	3.764	3.764	0.0	1.000	550879		4.47(2.55-7.66)		468	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	5358276	2.26	Target=8.55	90.2	941	
463.00 > 169.00	3.783	3.783	0.0	1.000	637493		8.41(4.28-12.83)		2200	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2862074	1.34		107	6277	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	6499870	2.35		101	4488	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.050	0.001	1.076	1985385	2.19	Target=2.53	91.0	3056	
549.00 > 99.00	4.051	4.050	0.001	1.076	831431		2.39(1.27-3.80)		2299	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2945069	1.36		108	4454	

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	4.081	4.081	0.0	1.000	5973895	2.34	Target=10.26	93.5	1884	
513.00 > 169.00	4.081	4.081	0.0	1.000	584258		10.22(5.13-15.38)		1587	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.184	363796	1.24		103	1206	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.003	1234024	2.51		105	3474	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	4367992	2.26		90.5	1862	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2309639	1.30		104	2517	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.218	4.228	-0.010	1.223	574993	1.30		104	339	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.228	0.0	1.002	988085	2.49		99.4	1034	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.320	4.331	-0.011	1.148	1577667	2.20	Target=2.51	91.3	4026	
599.00 > 99.00	4.320	4.331	-0.011	1.148	606166		2.60(1.25-3.76)		2959	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.354	4.353	0.001	1.263	2760824	1.39		111	3215	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.354	4.353	0.001	1.000	5223978	2.35	Target=9.88	93.9	1843	
563.00 > 169.00	4.354	4.353	0.001	1.000	502045		10.41(4.94-14.82)		2369	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	0.0	1.003	950173	2.36		94.5	1049	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.354	4.365	-0.011	1.263	561385	1.29		103	1191	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.180	9982176	2.34		99.5	4198	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.002	5101691	2.13	Target=7.77	85.2	366	M
613.00 > 169.00	4.580	4.591	-0.011	1.000	698007		7.31(3.89-11.66)		2720	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.328	2826168	1.39		112	4738	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.602	4.612	-0.010	1.127	742186	2.51		104	3009	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.767	4.776	-0.009	1.267	705203	2.32	Target=0.50	96.0	5885	
699.00 > 99.00	4.758	4.776	-0.018	1.264	1319741		0.53(0.25-0.76)		4896	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.047	5289723	2.31	Target=5.21	92.4	386	M
663.00 > 169.00	4.794	4.804	-0.010	1.047	922475		5.73(2.60-7.81)		1977	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.992	5.012	-0.020	1.000	614794	2.17	Target=0.89	86.9	2517	
713.00 > 219.00	4.992	5.012	-0.020	1.000	722156		0.85(0.44-1.33)		2289	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.992	5.012	-0.020	1.448	2582481	1.47		118	6476	

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	5.356	5.367	-0.011	1.002	5749027	2.30	Target=5.65	91.8	418	
813.00 > 169.00	5.356	5.367	-0.011	1.002	909634		6.32(2.82-8.47)		1633	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.550	3379048	1.56		125	4910	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.695	5.722	-0.027	1.066	5604402	2.52	Target=6.24	101	381	
913.00 > 169.00	5.695	5.722	-0.027	1.066	776757		7.22(3.12-9.36)		1364	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00031

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d

Injection Date: 04-Jan-2023 17:28:58

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 18

Worklist Smp#: 21

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

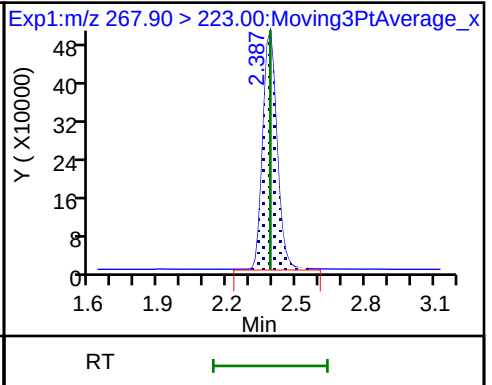
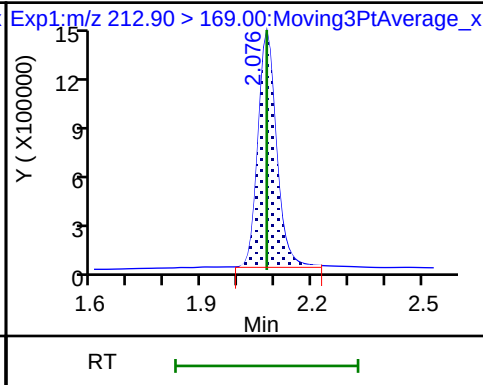
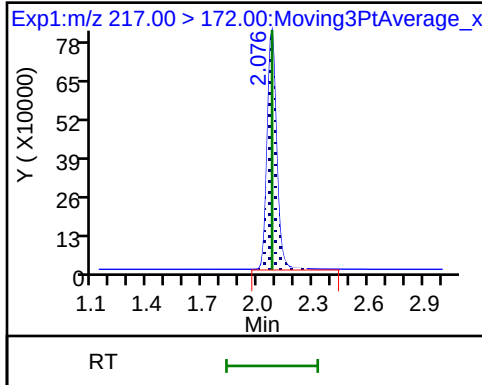
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

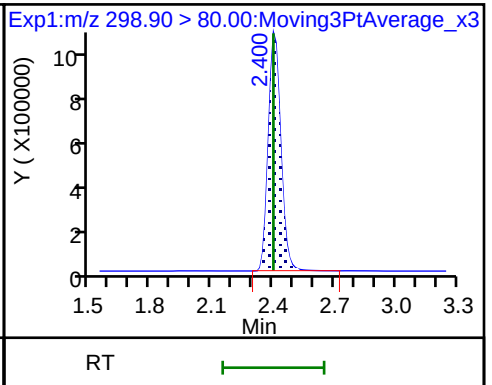
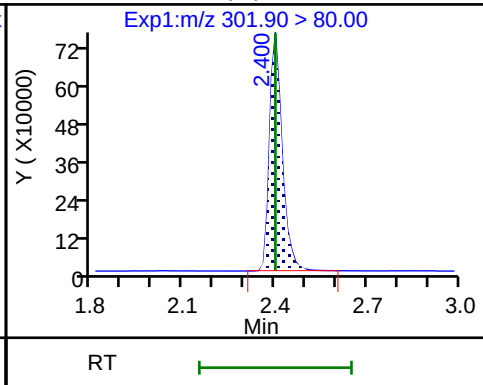
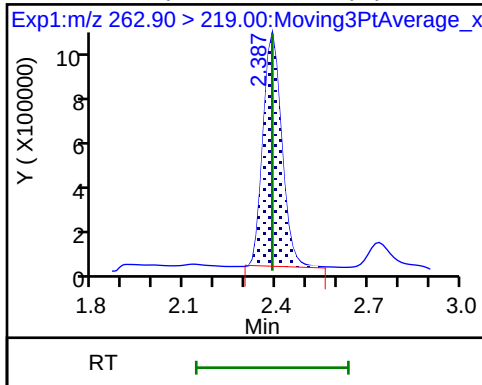
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

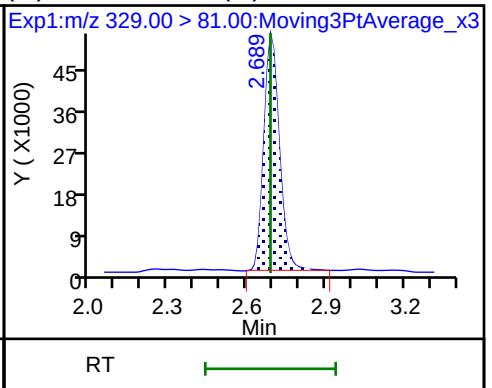
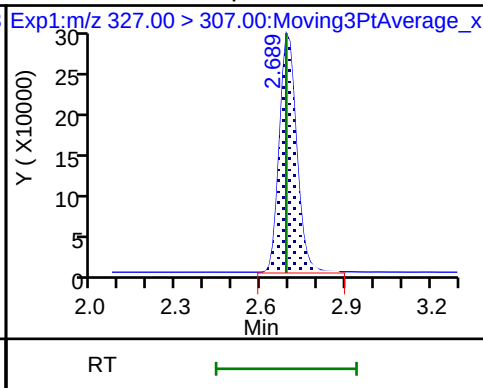
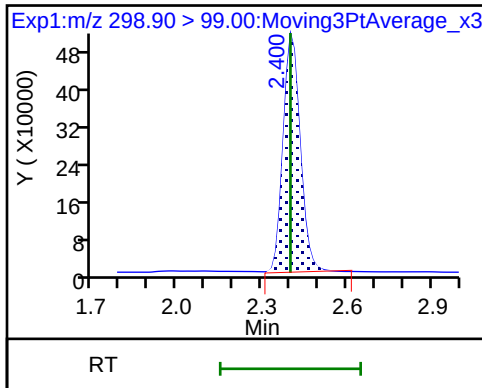
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

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

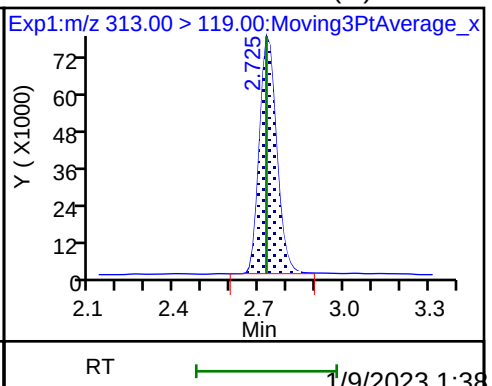
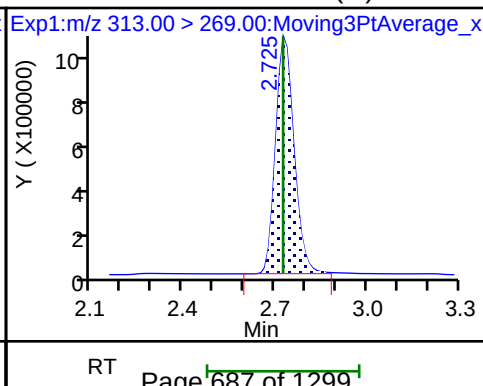
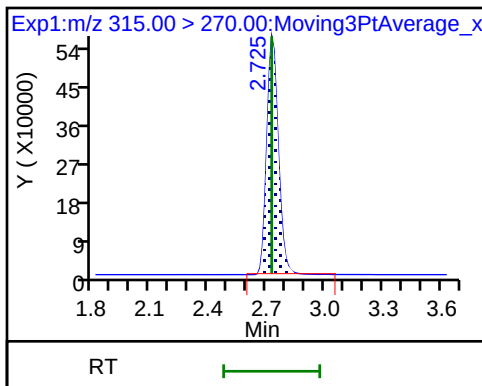
D 50 M2-4:2 FTS (M)

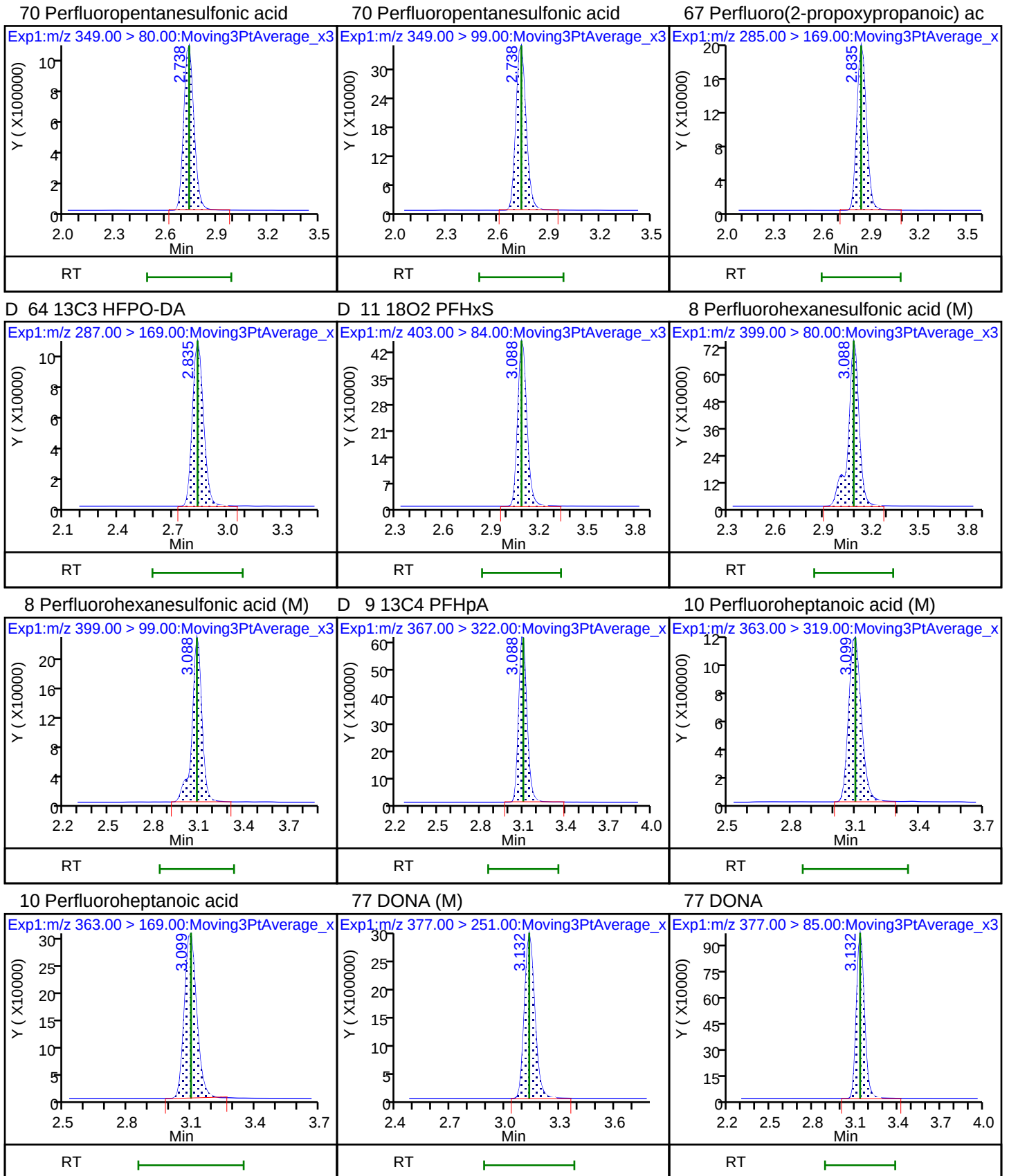


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

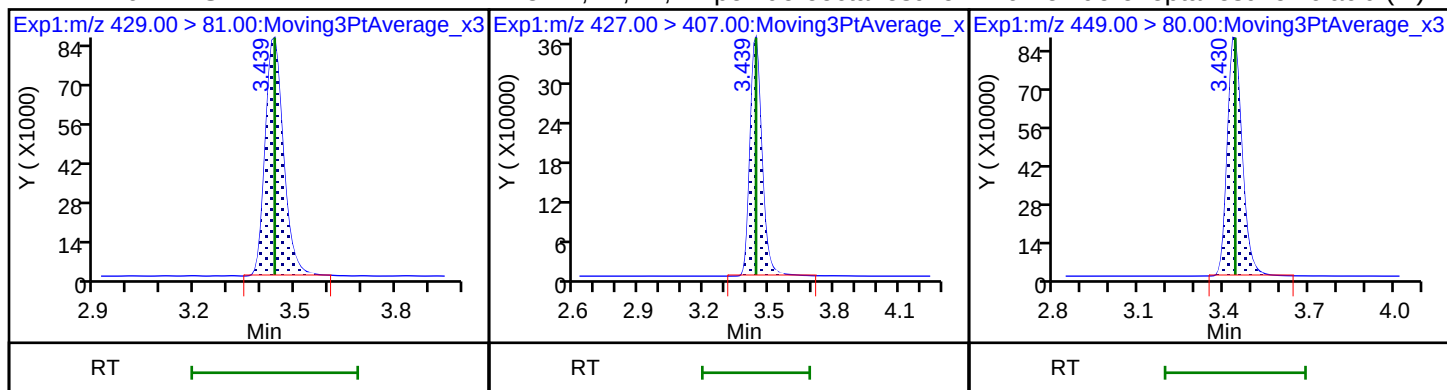




D 12 M2-6:2 FTS

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

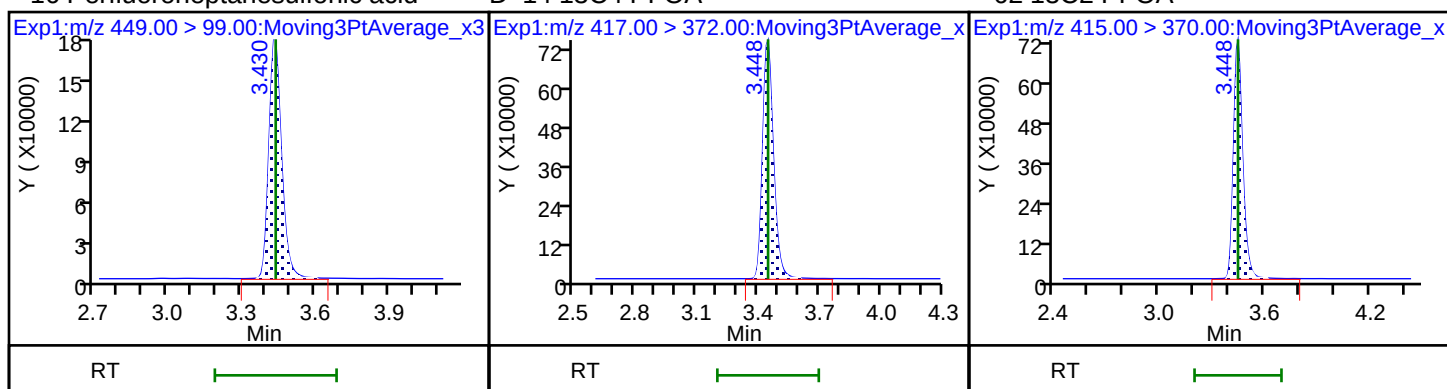
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

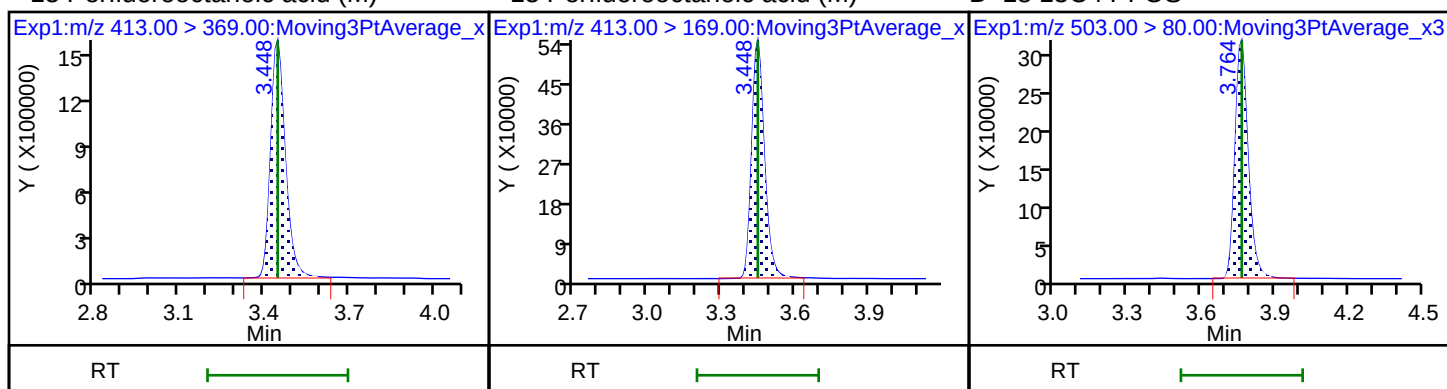
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

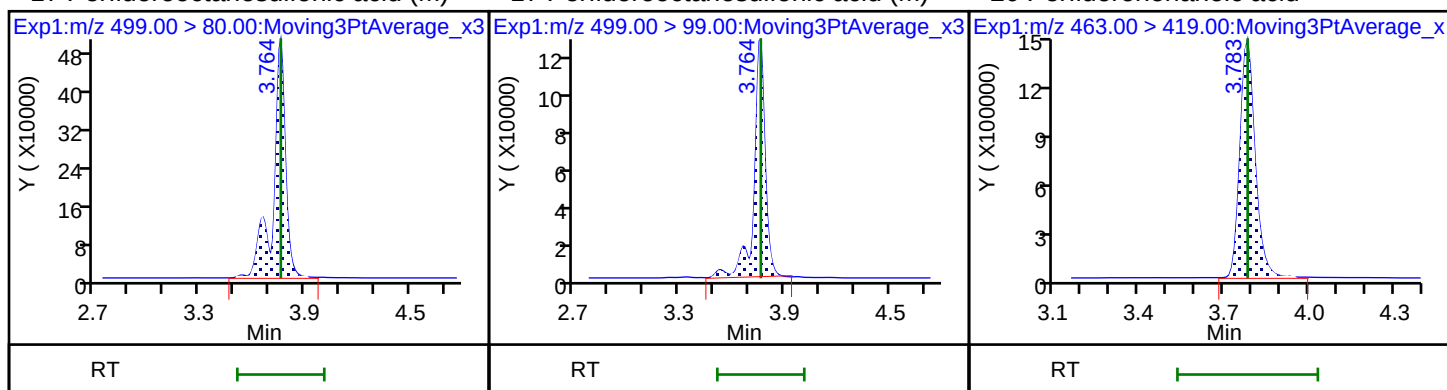
D 18 13C4 PFOS

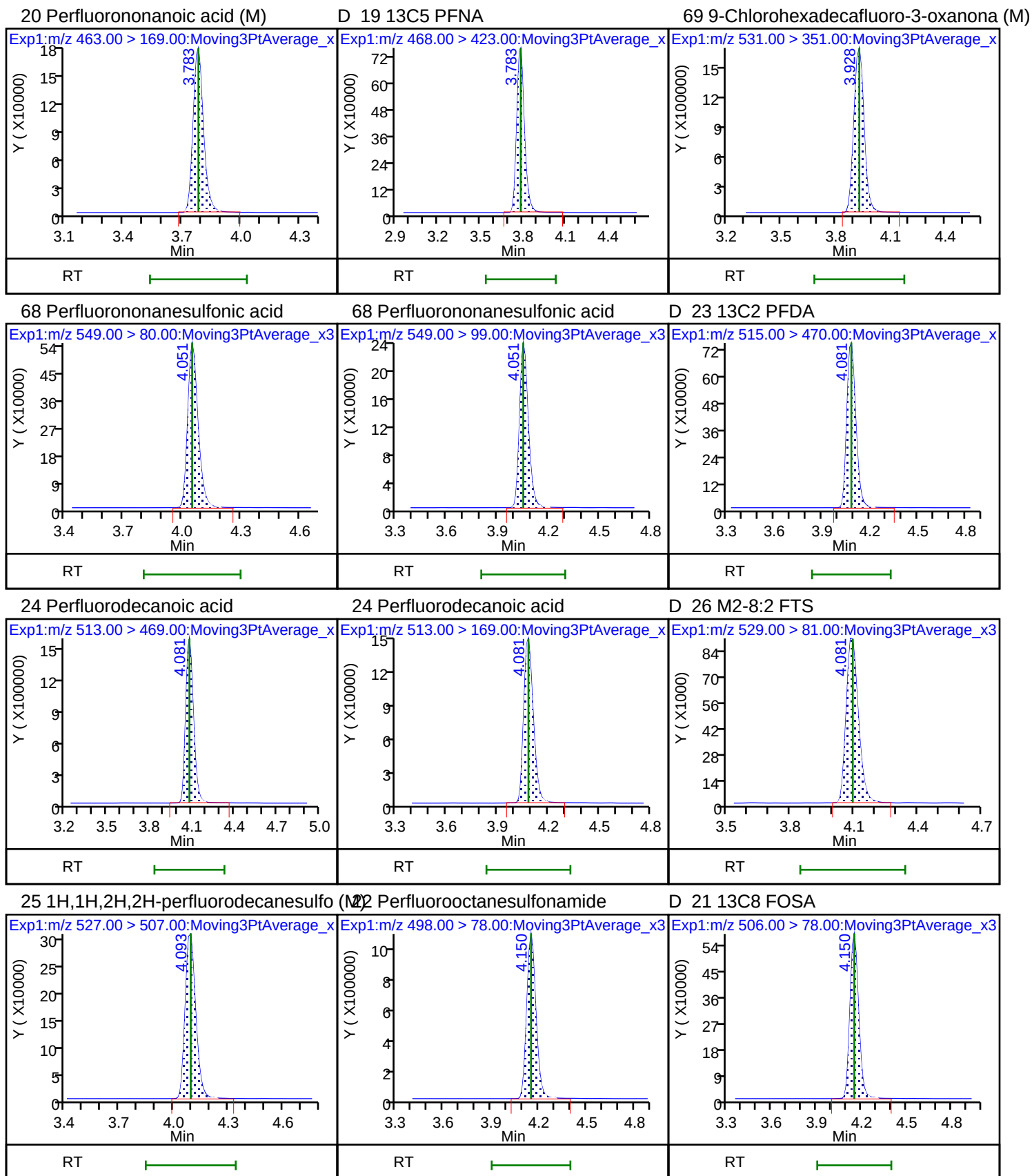


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

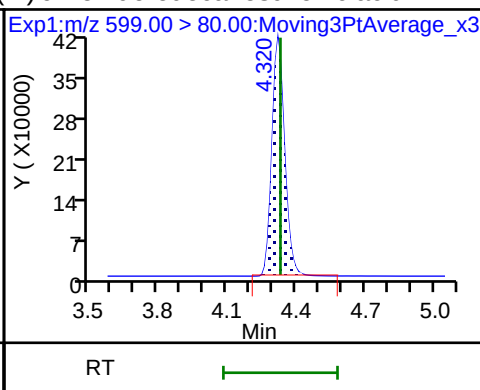
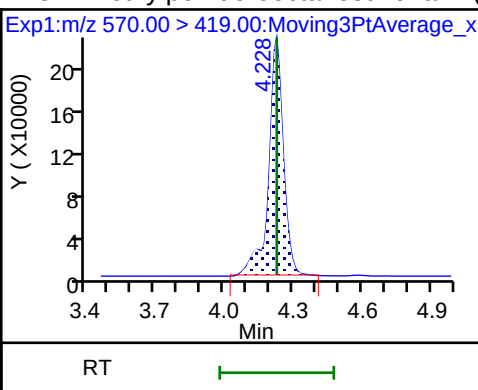
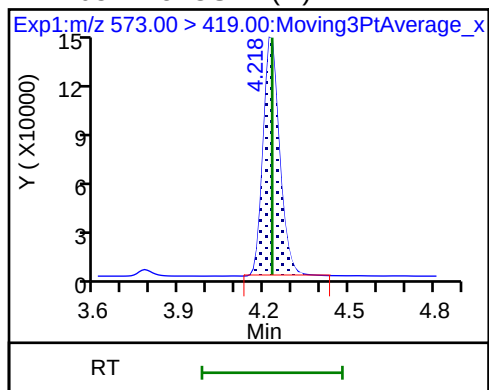




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

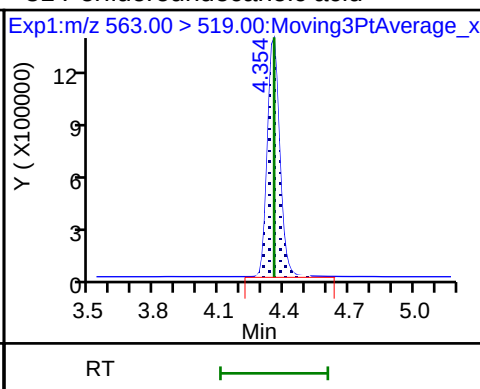
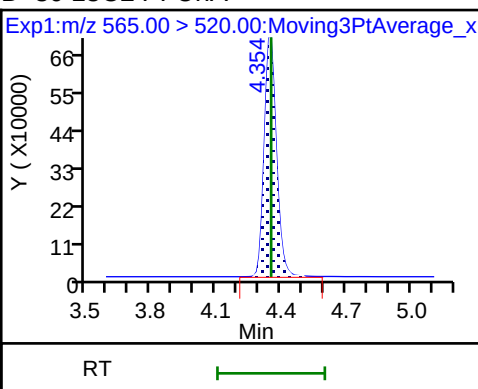
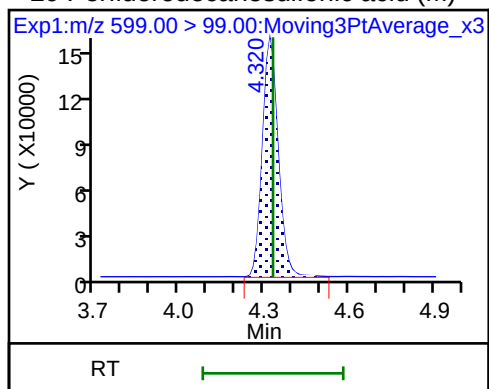
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

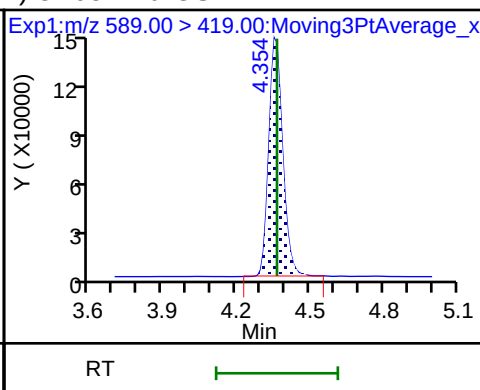
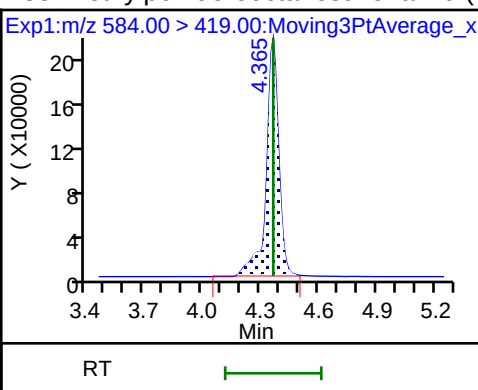
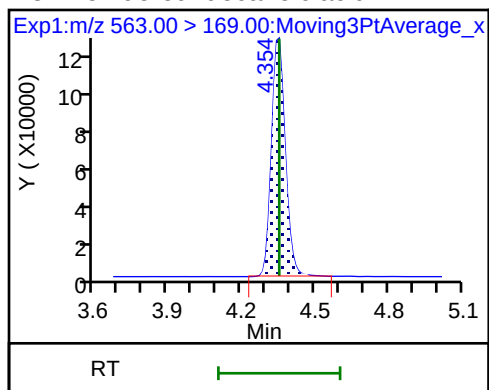
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

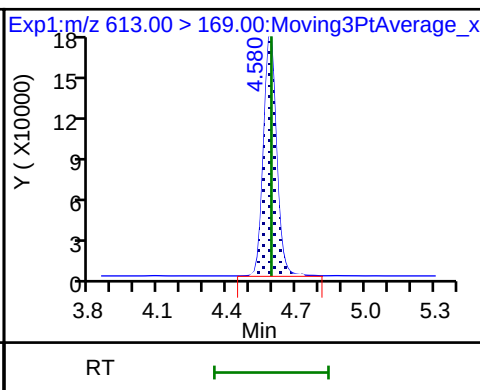
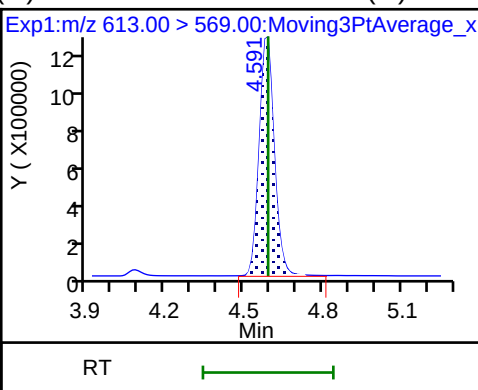
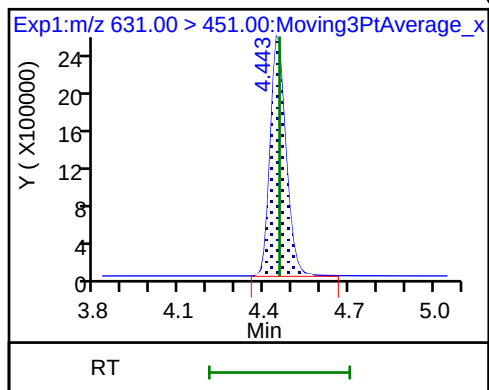
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

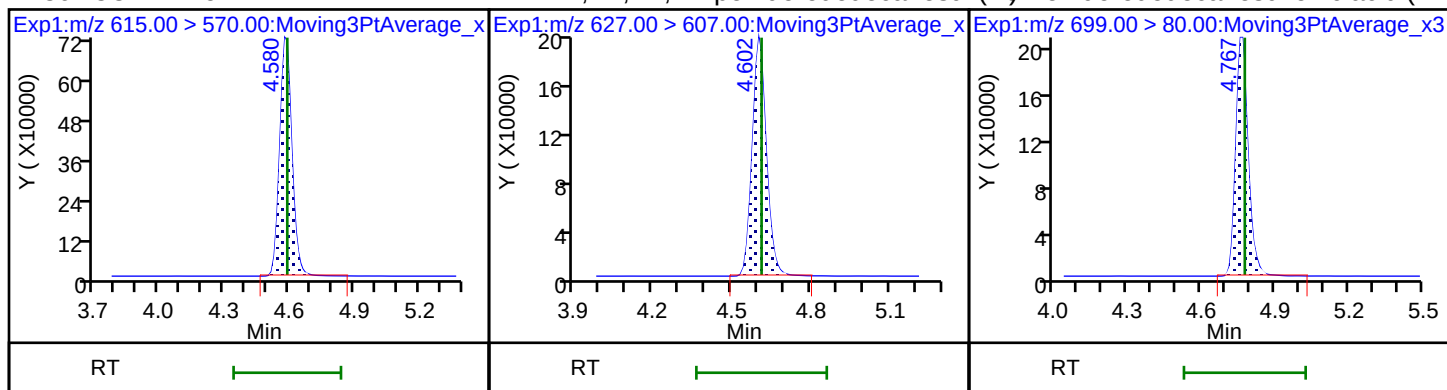
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

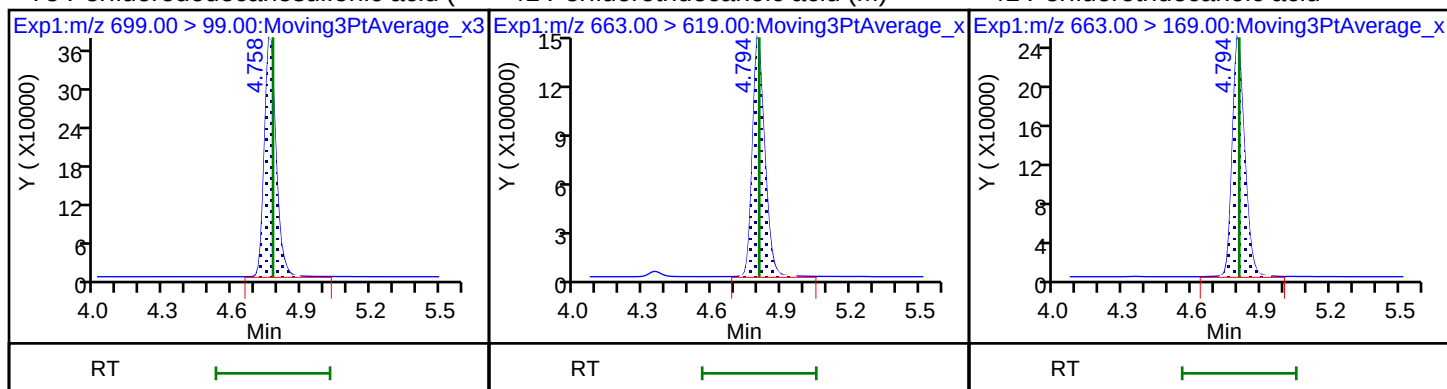
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

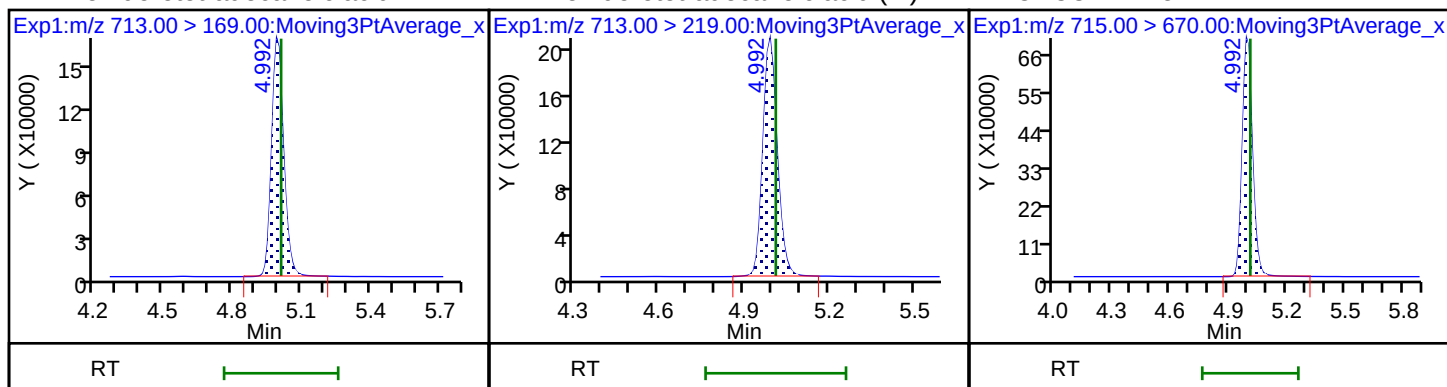
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

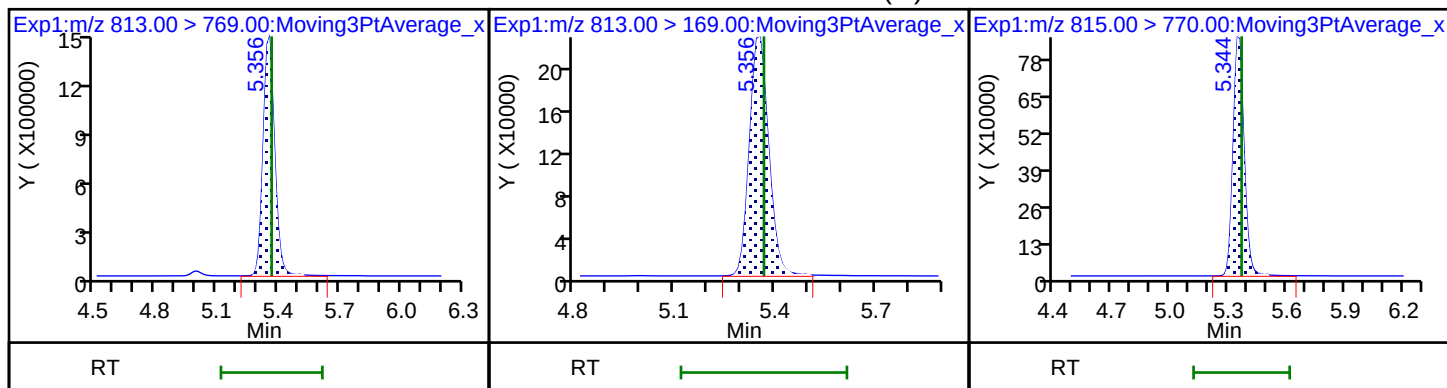
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

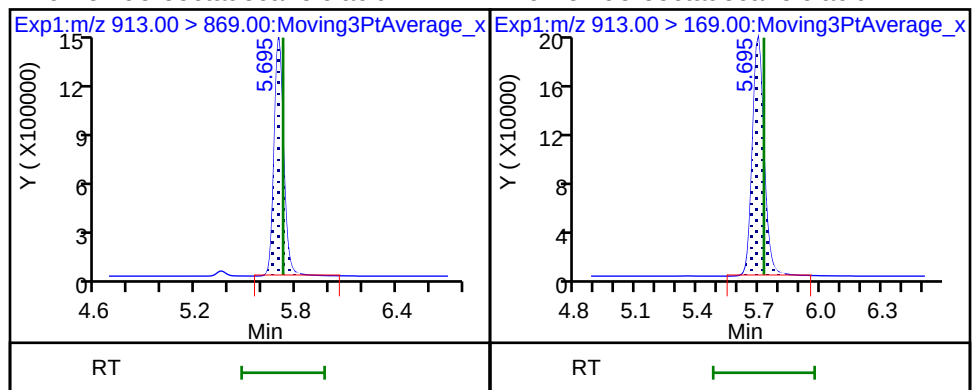
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



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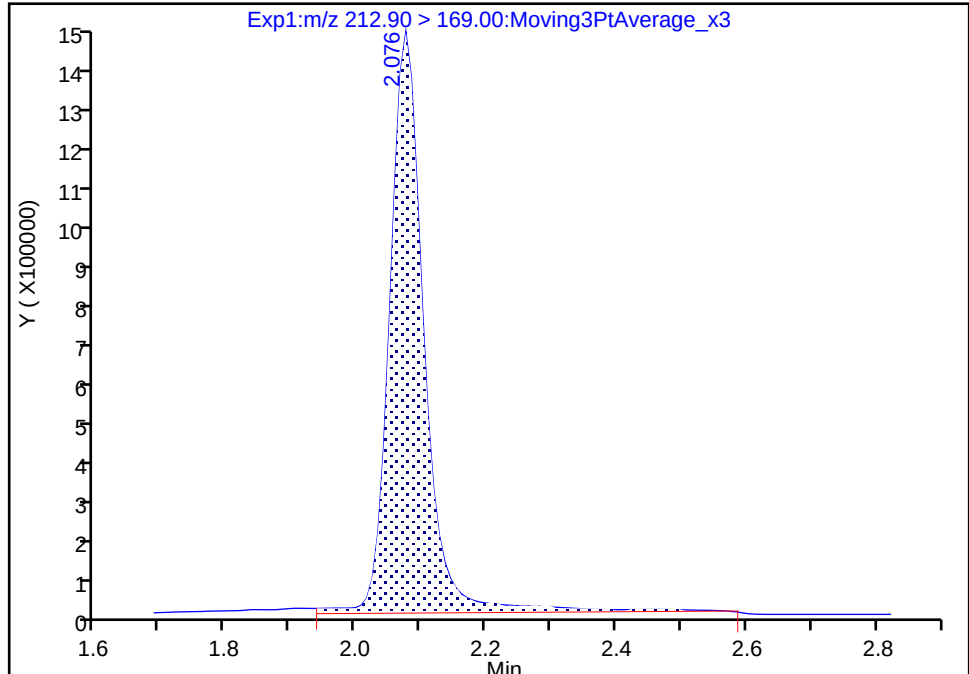
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Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

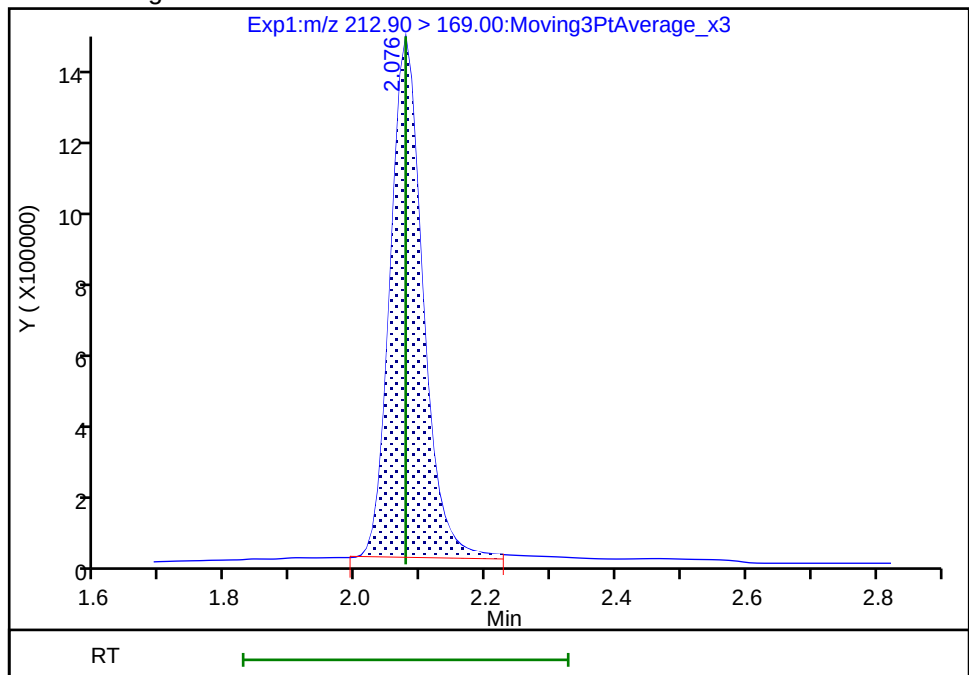
RT: 2.08
Area: 5572246
Amount: 2.349546
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 5161672
Amount: 2.176427
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

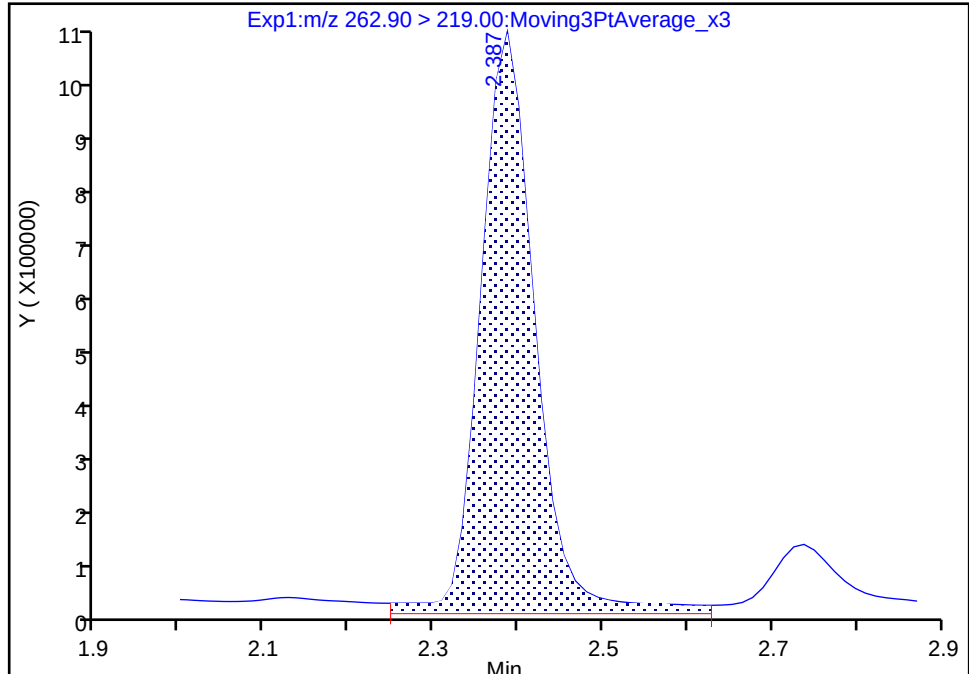
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Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

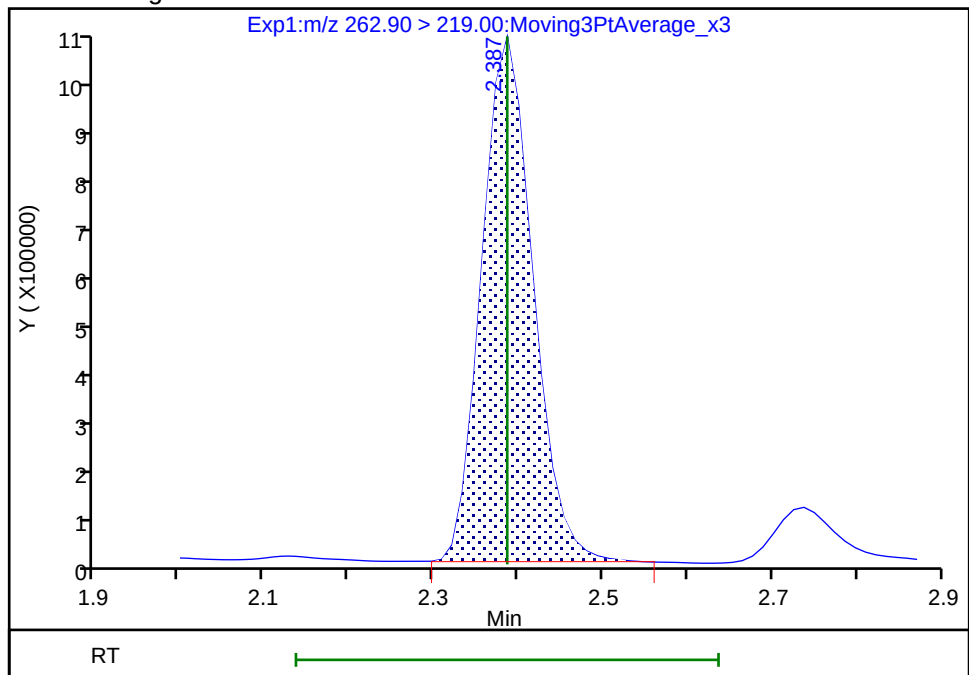
RT: 2.39
Area: 4837508
Amount: 2.603893
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 4394445
Amount: 2.365405
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

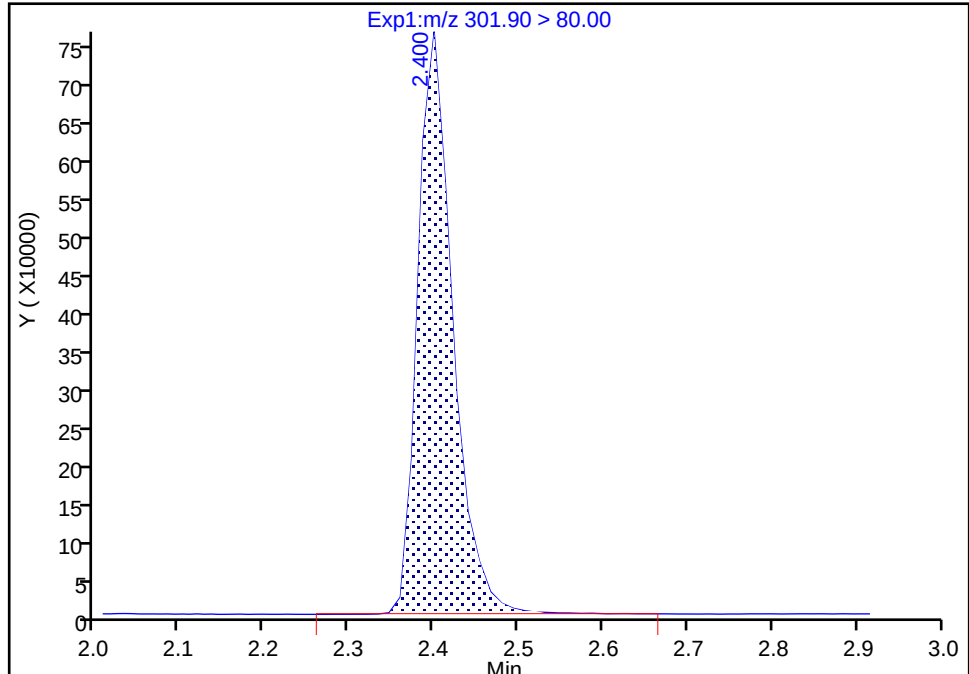
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

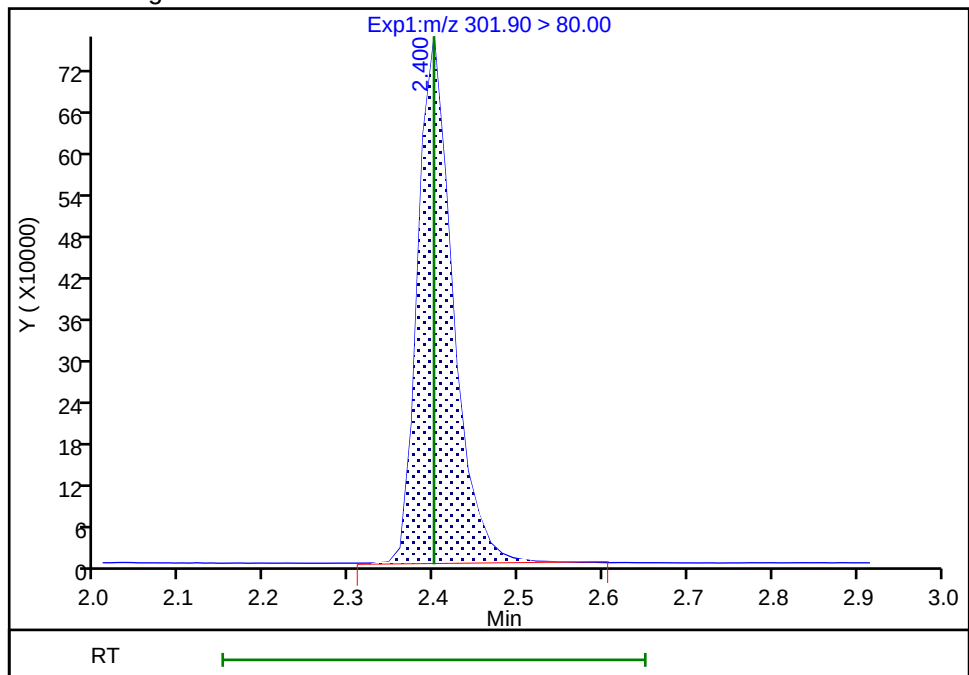
RT: 2.40
Area: 2194395
Amount: 1.115469
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2191292
Amount: 1.113892
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

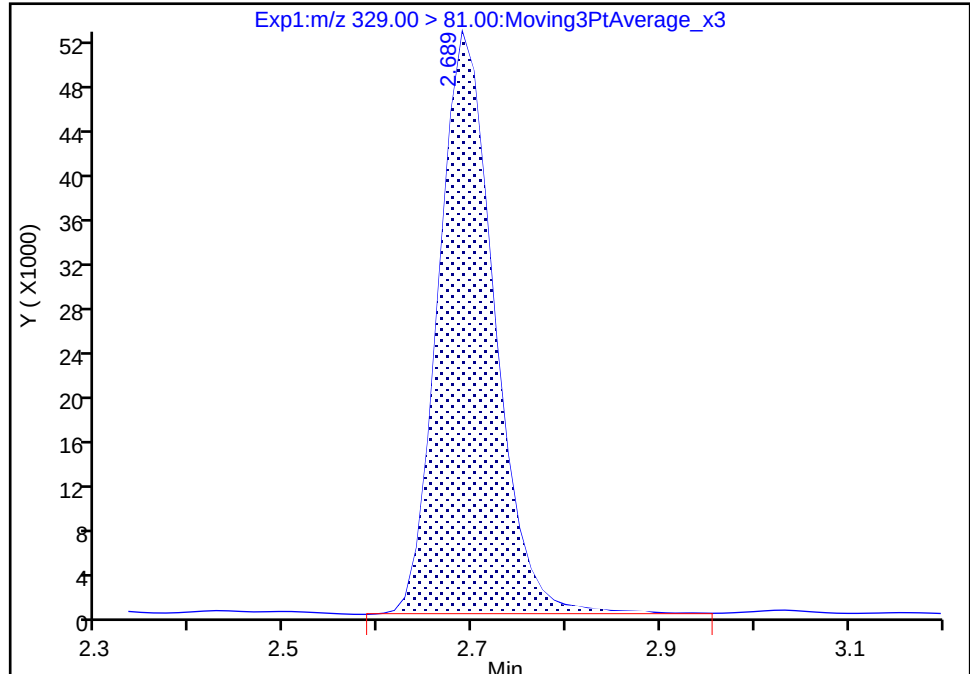
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

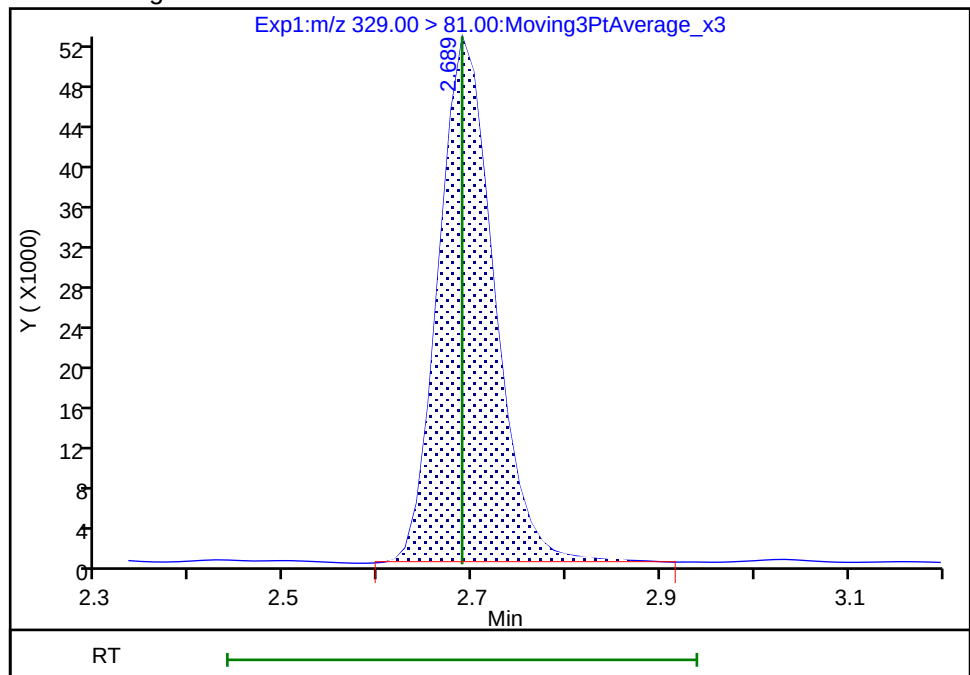
RT: 2.69
Area: 215870
Amount: 1.241849
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 214876
Amount: 1.236131
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

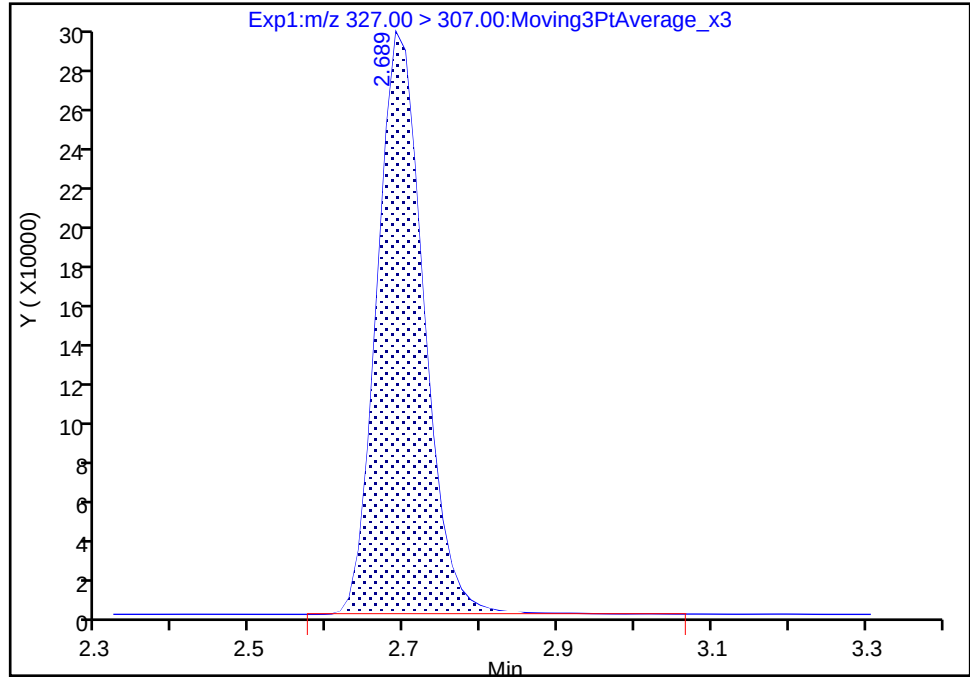
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

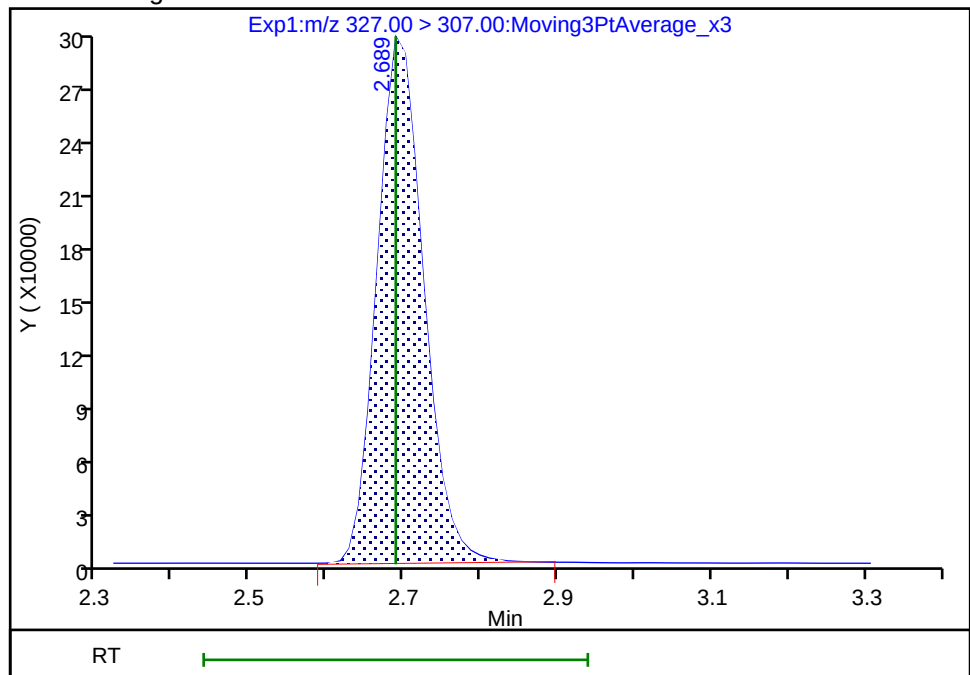
RT: 2.69
Area: 1230447
Amount: 2.170049
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 1227856
Amount: 2.165480
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

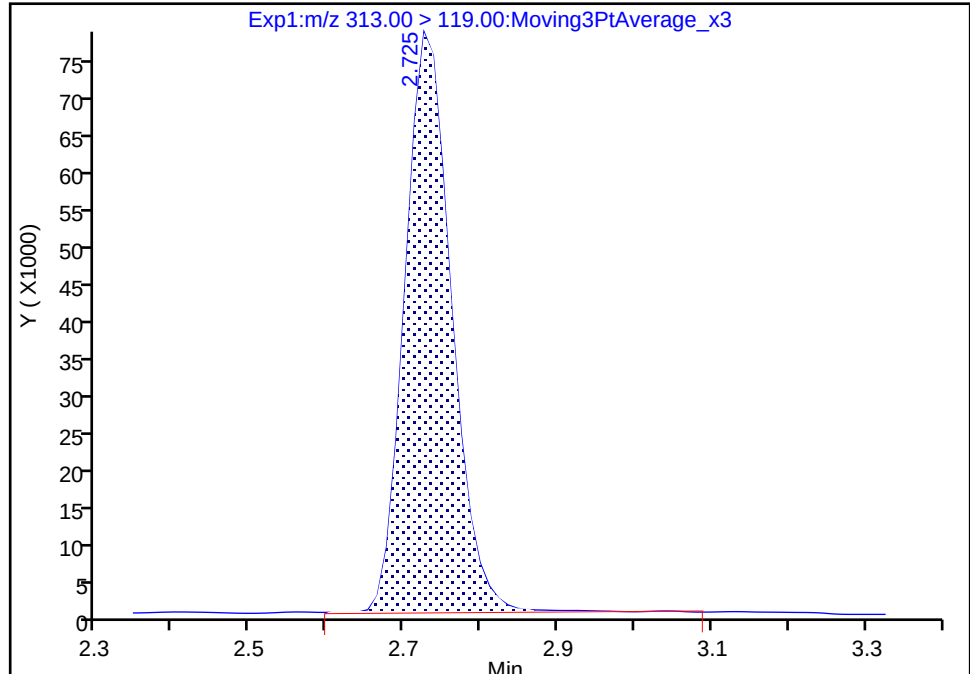
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

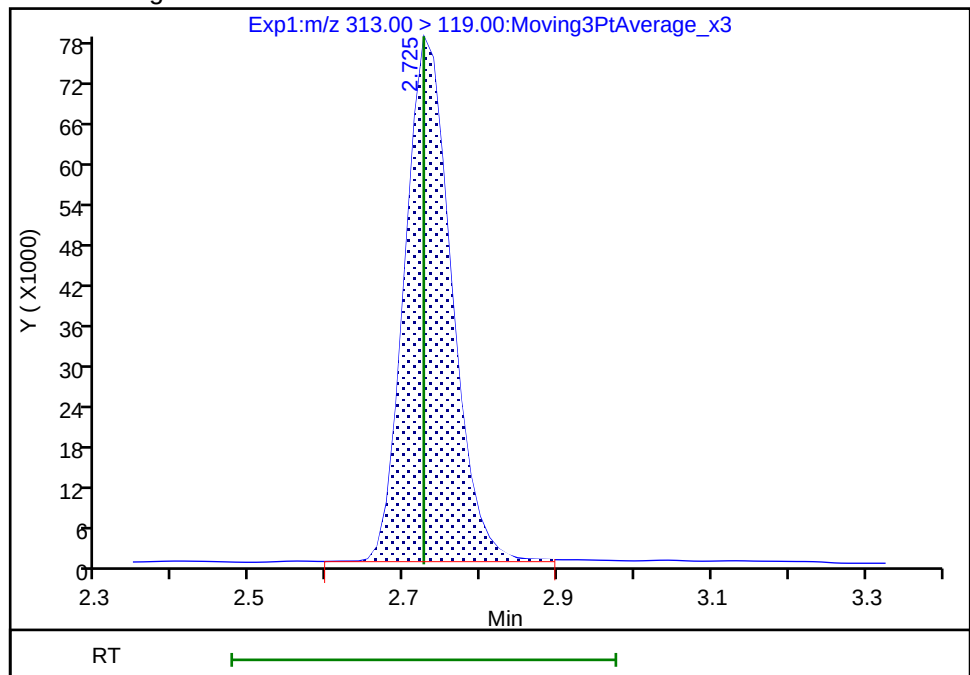
RT: 2.73
Area: 331754
Amount: 2.184636
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 329888
Amount: 2.148675
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

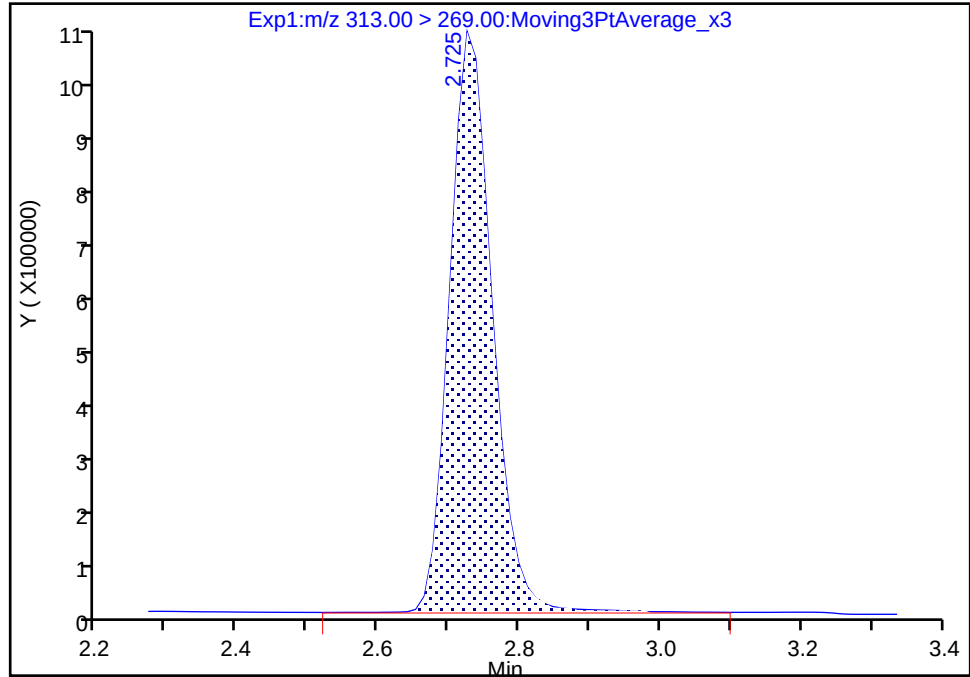
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

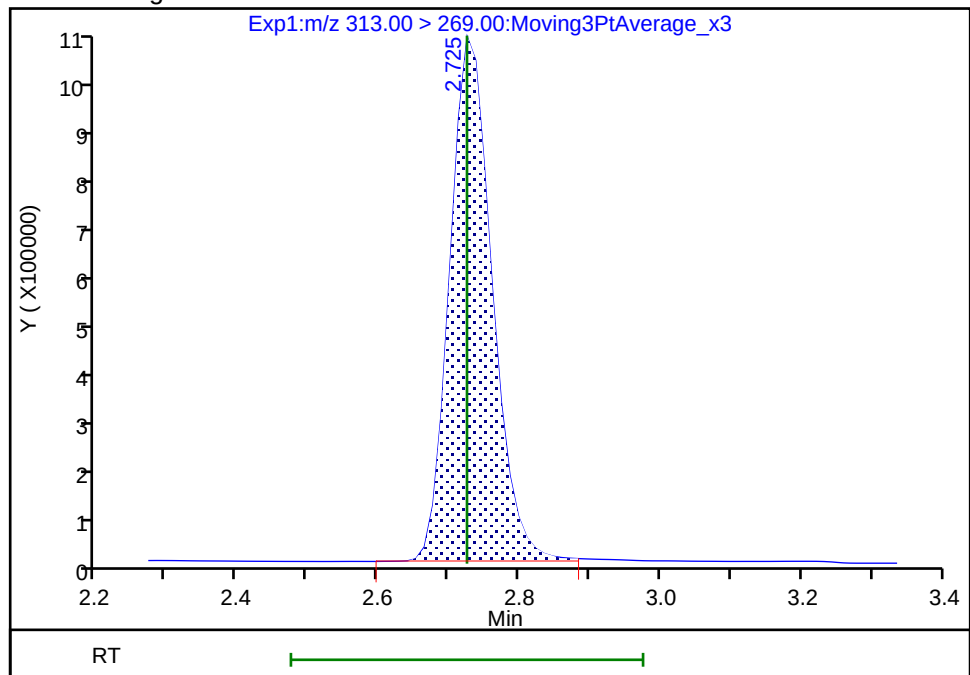
RT: 2.73
Area: 4489163
Amount: 2.184636
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 4415267
Amount: 2.148675
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

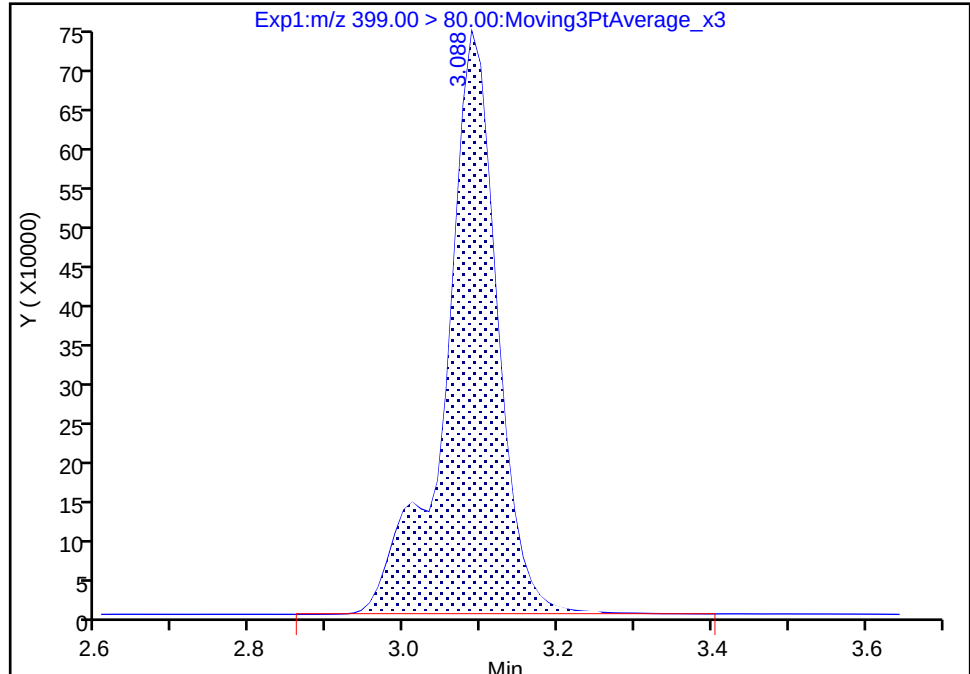
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

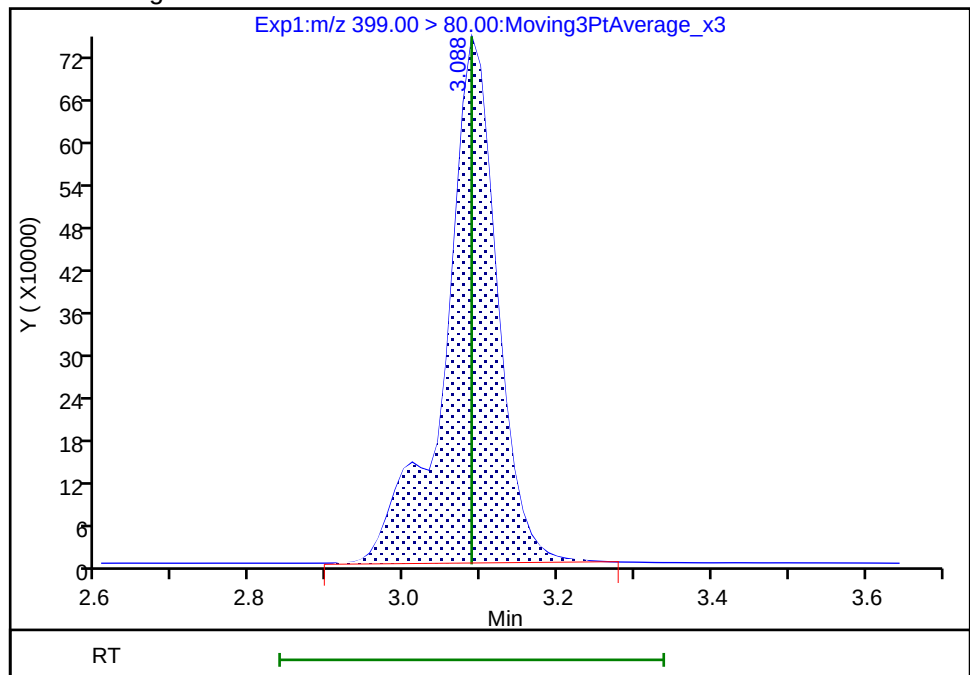
RT: 3.09
Area: 3522989
Amount: 2.115502
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3503514
Amount: 2.103808
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

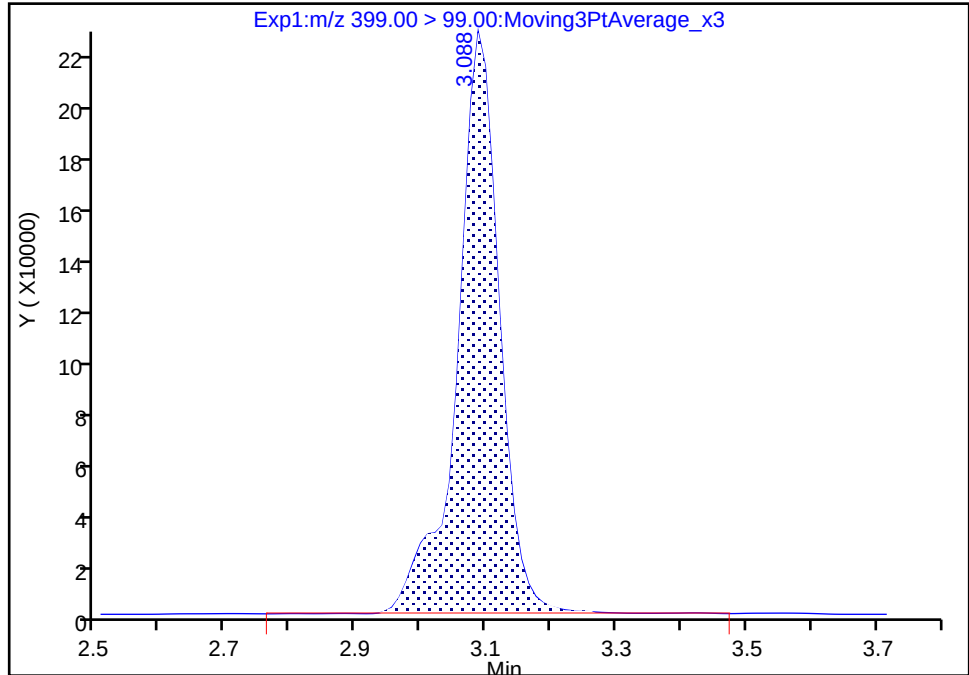
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

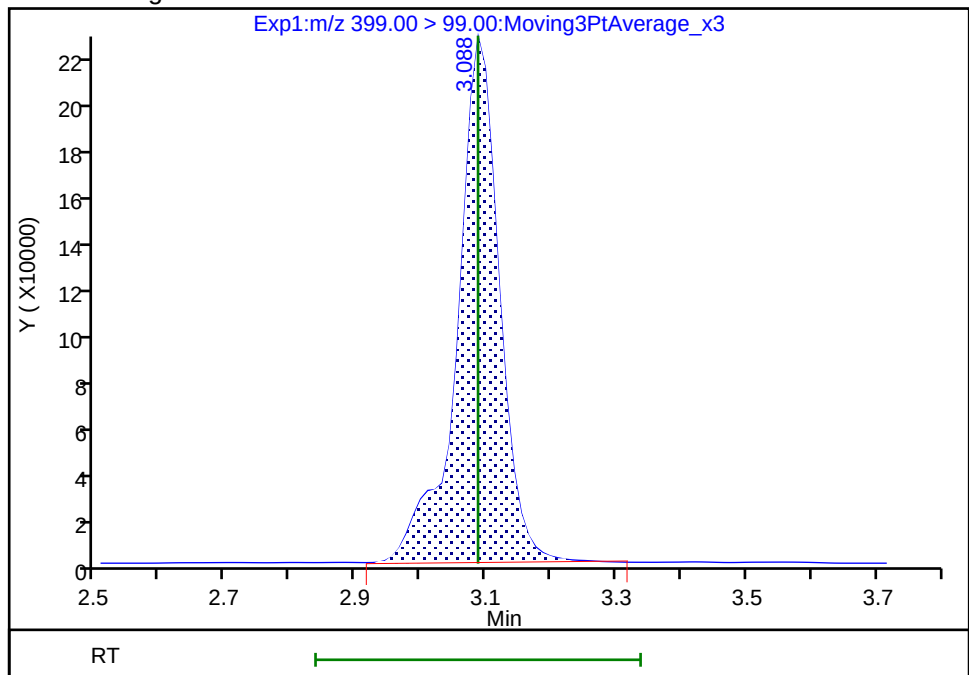
RT: 3.09
Area: 1022689
Amount: 2.115502
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1017857
Amount: 2.103808
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
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Eurofins Burlington

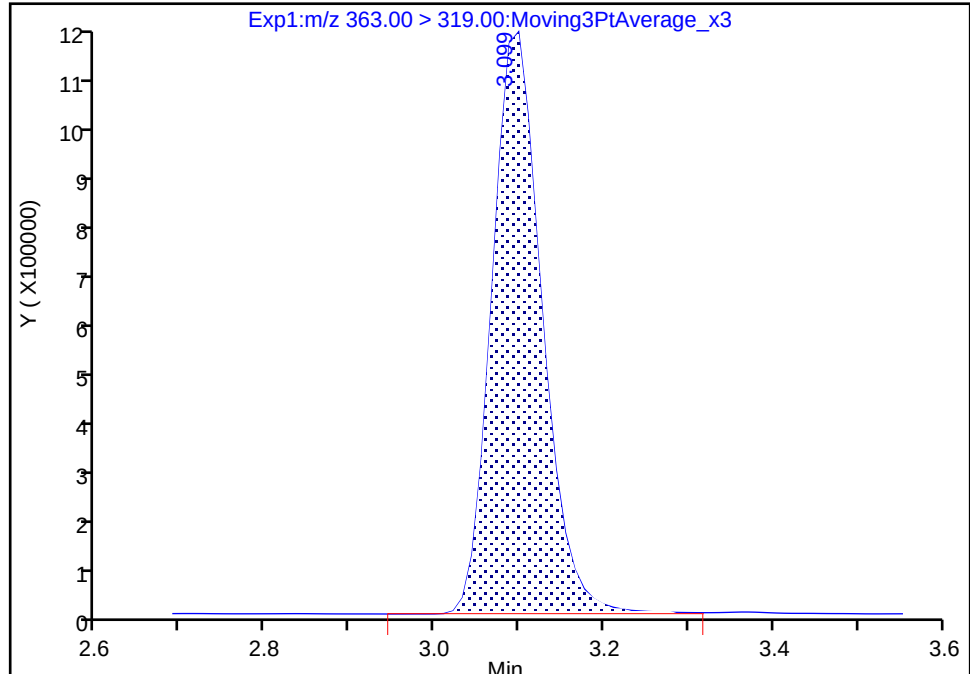
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

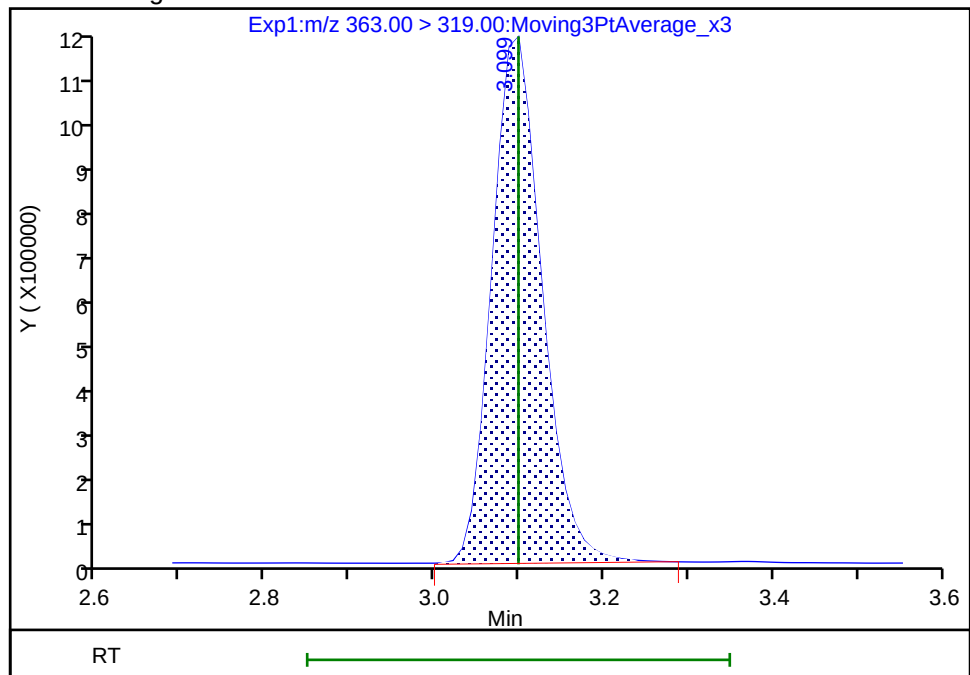
RT: 3.10
Area: 4807722
Amount: 2.218524
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 4774570
Amount: 2.203226
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

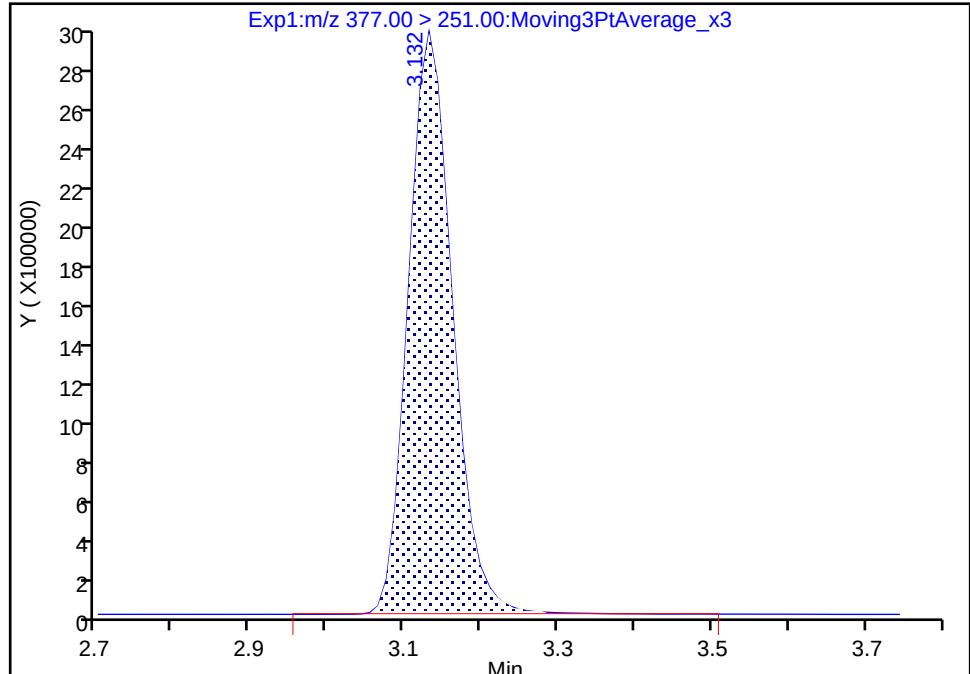
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

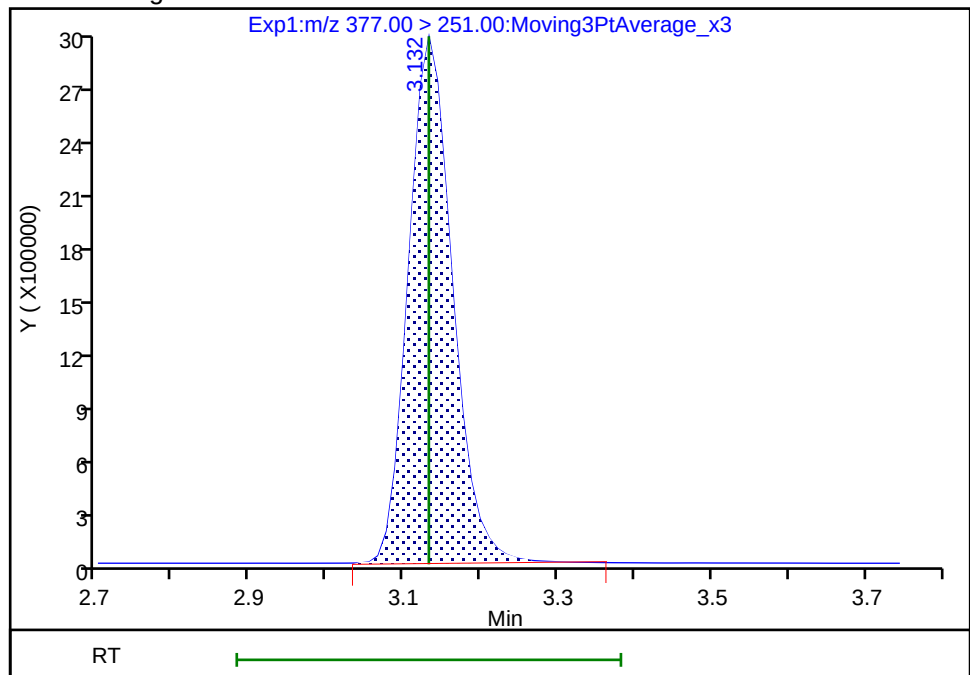
RT: 3.13
Area: 11700611
Amount: 2.146477
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 11659100
Amount: 2.138862
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

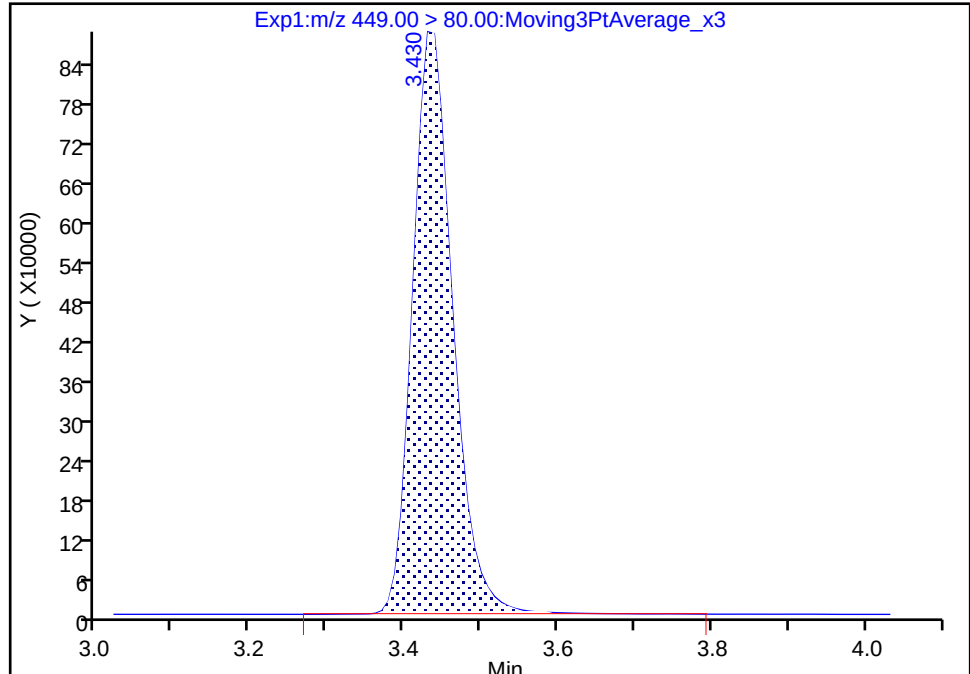
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

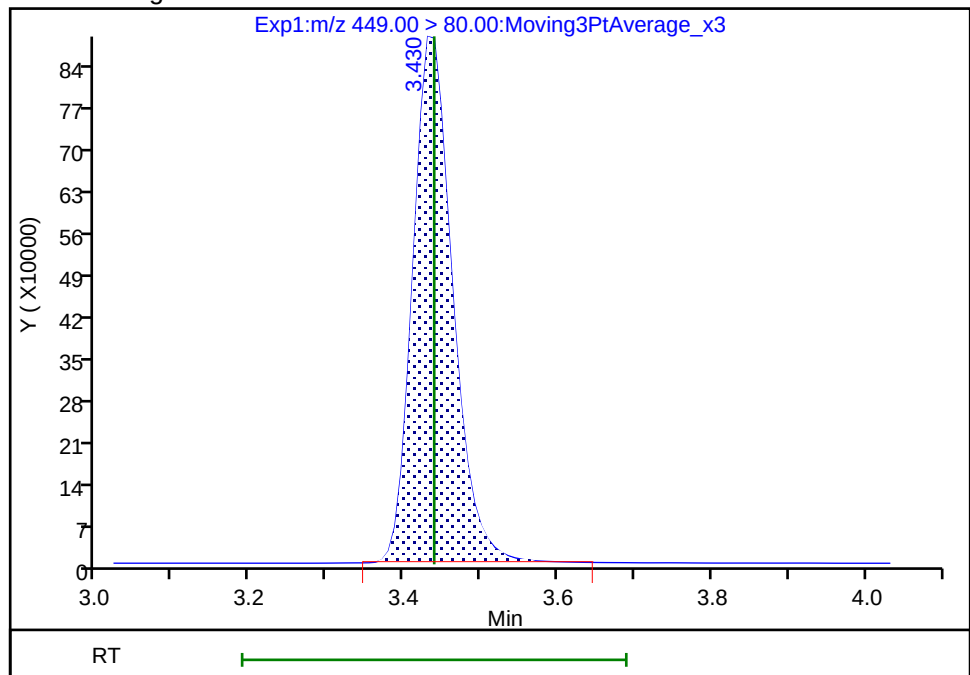
RT: 3.43
Area: 3219310
Amount: 2.328588
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 3199125
Amount: 2.313988
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

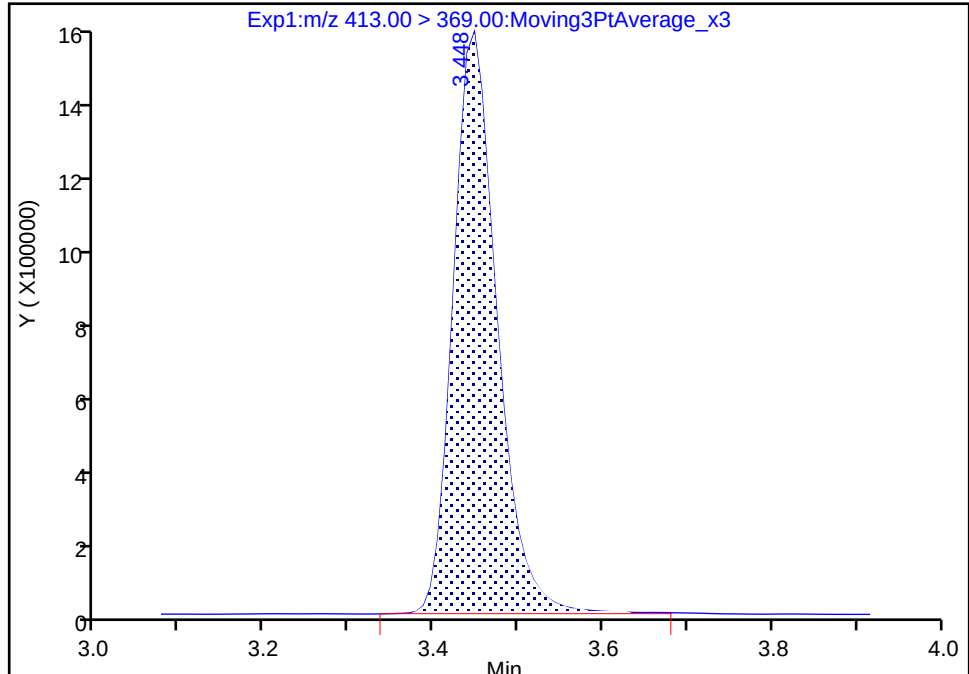
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

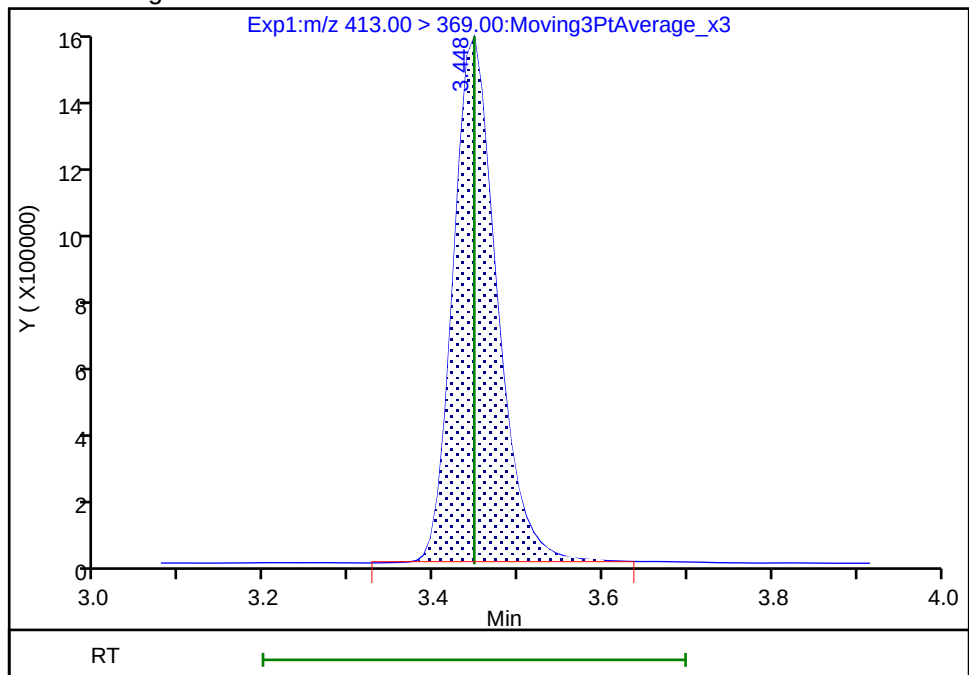
RT: 3.45
Area: 5496052
Amount: 2.320001
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 5483388
Amount: 2.314655
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

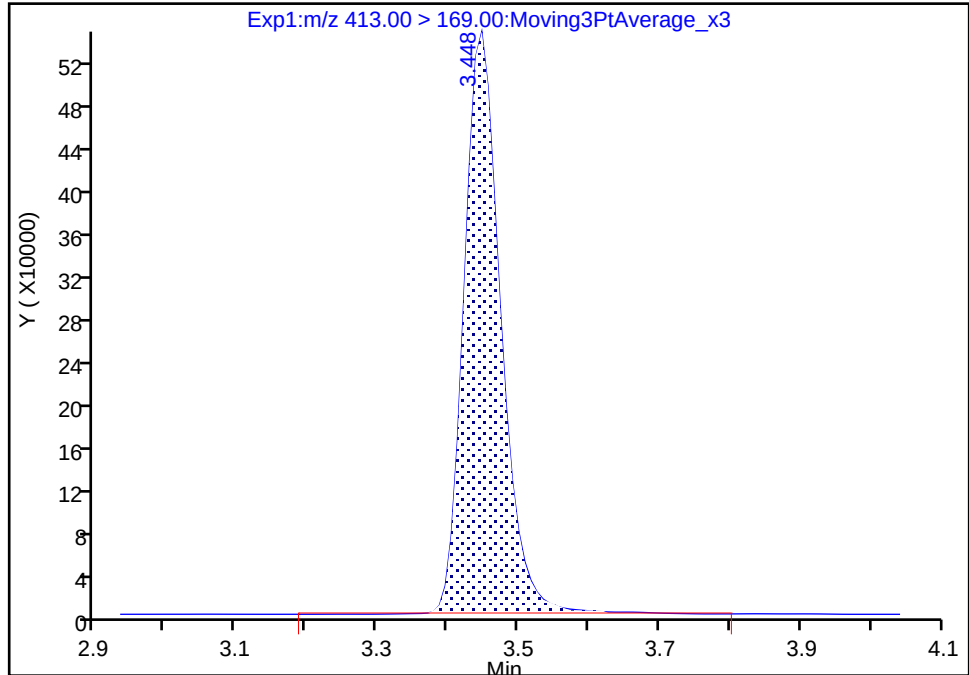
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

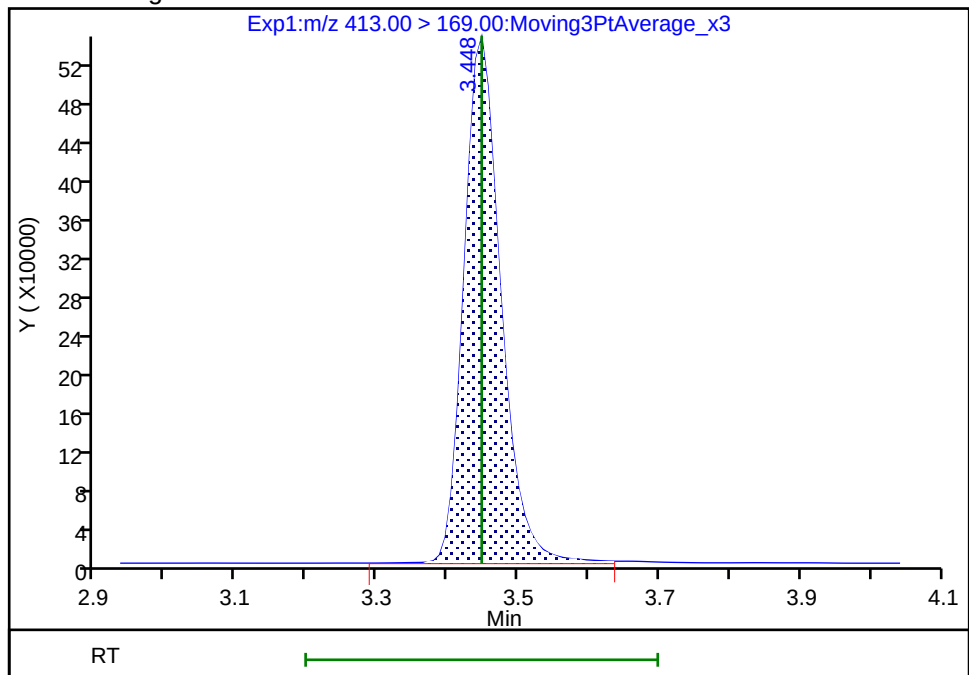
RT: 3.45
Area: 2001768
Amount: 2.320001
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1993672
Amount: 2.314655
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

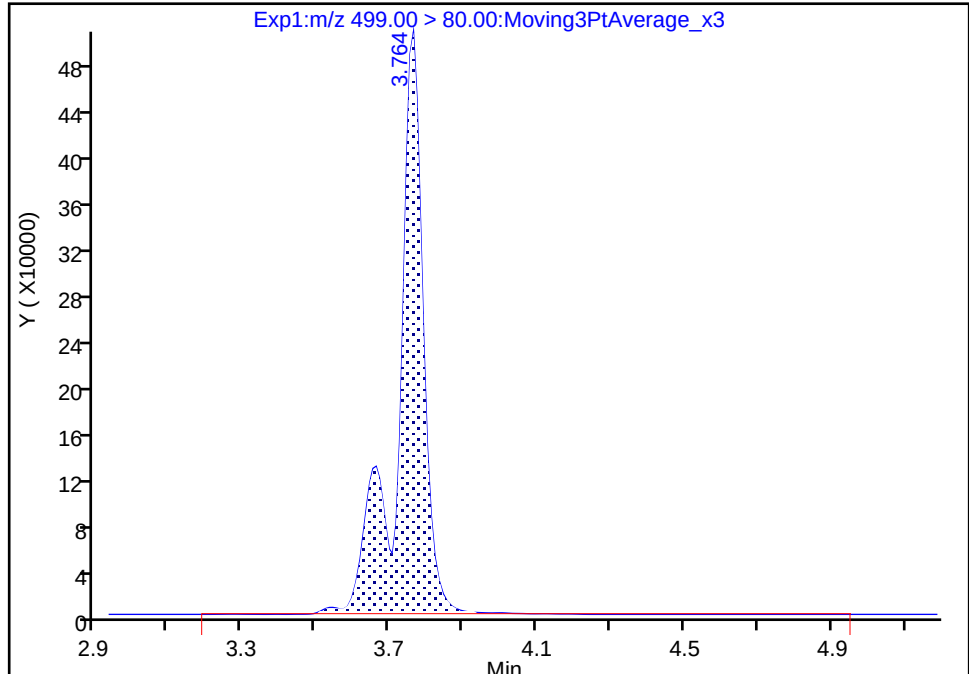
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

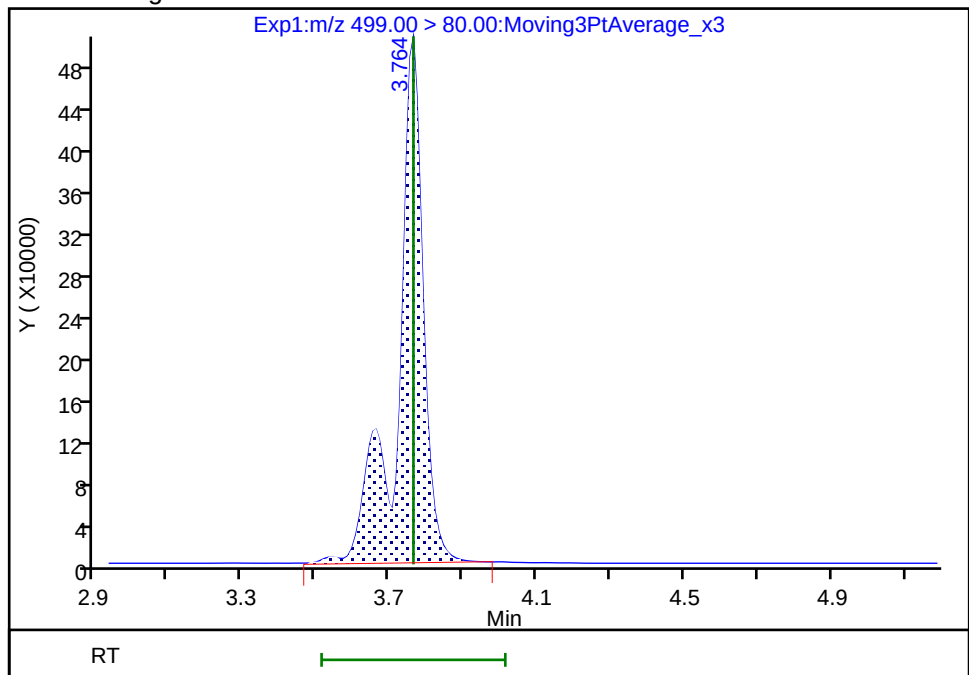
RT: 3.76
Area: 2495511
Amount: 2.073074
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 2463212
Amount: 2.046243
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:53:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

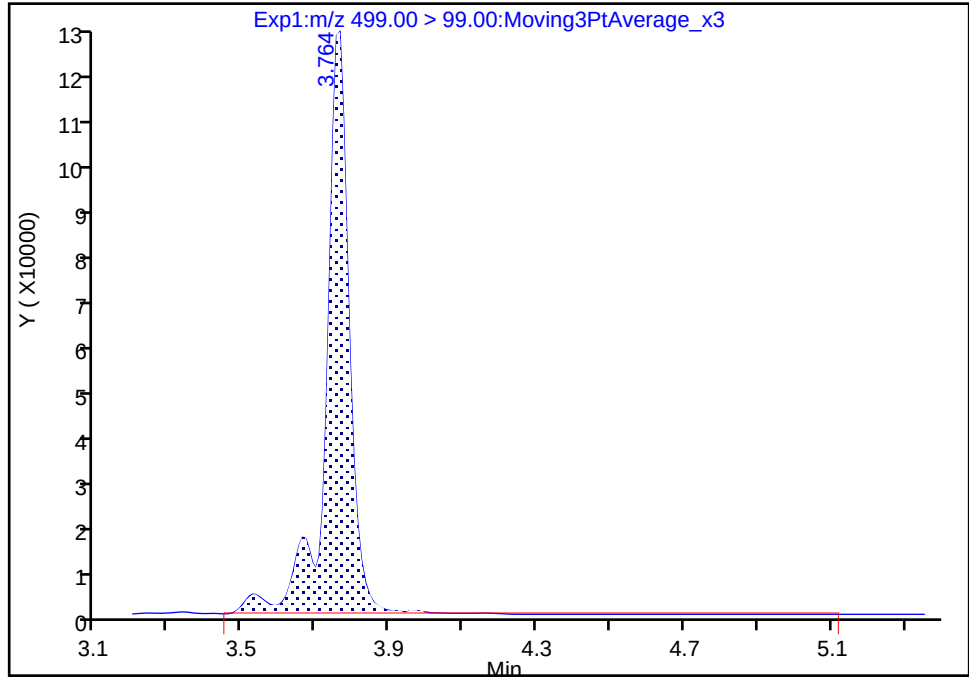
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

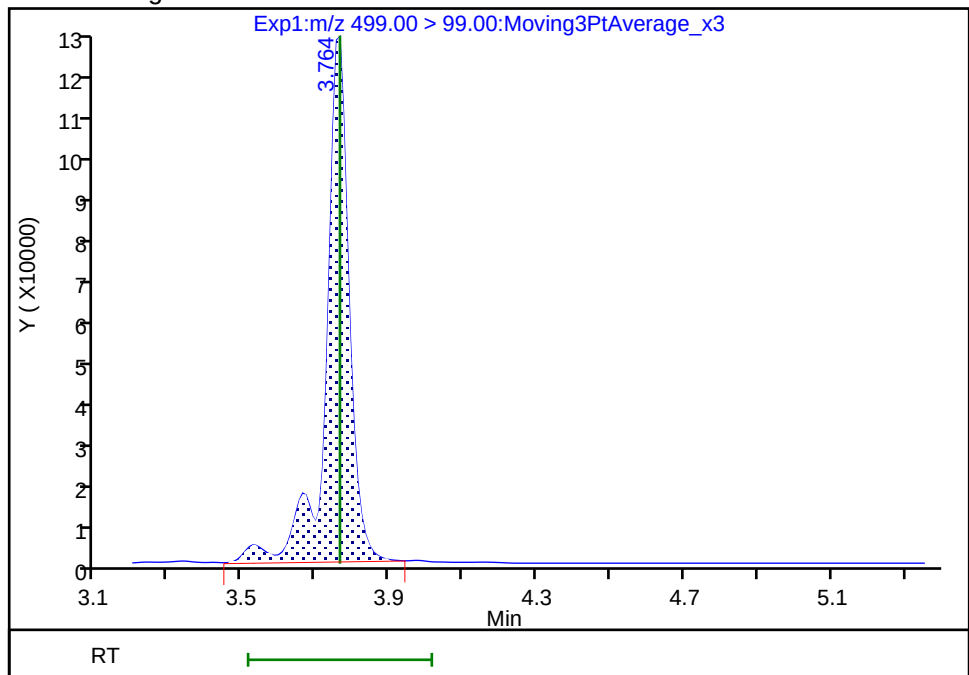
RT: 3.76
Area: 565999
Amount: 2.073074
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 550879
Amount: 2.046243
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:54:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

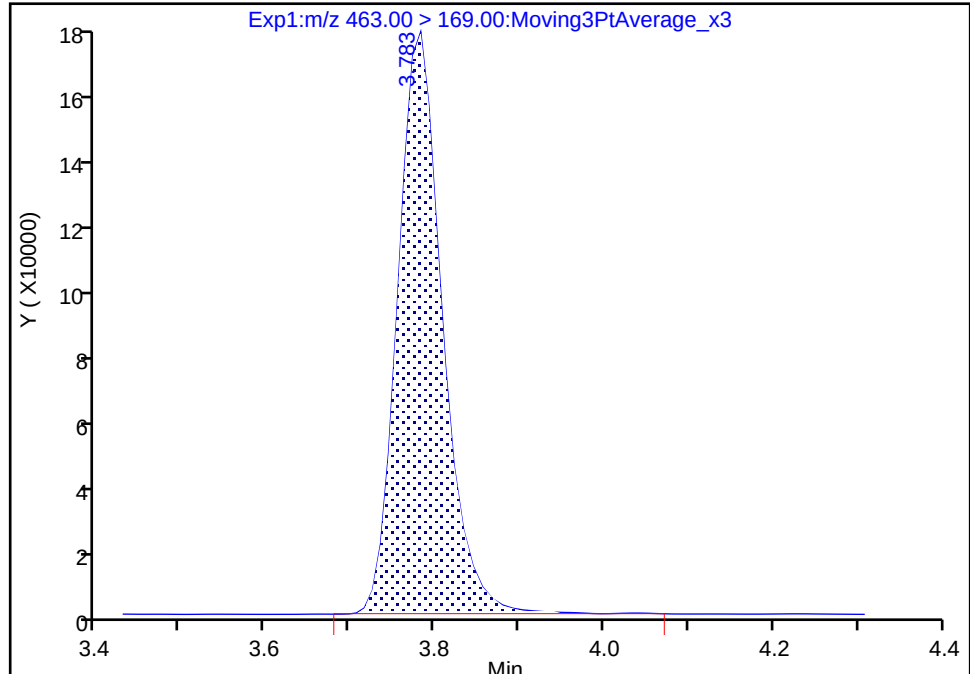
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

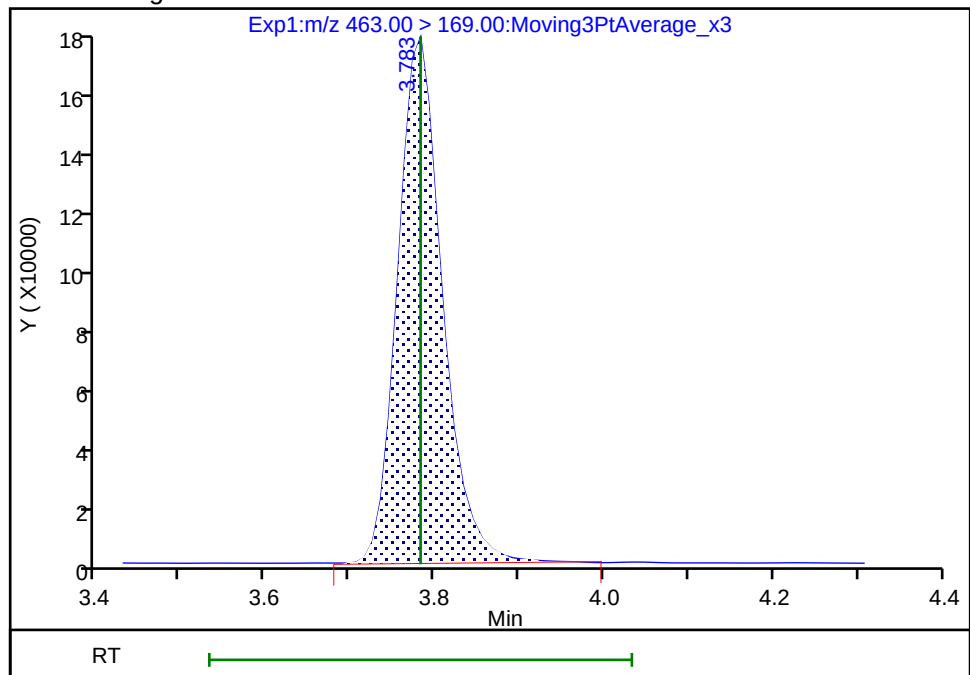
RT: 3.78
Area: 638434
Amount: 2.255936
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 637493
Amount: 2.255936
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:54:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

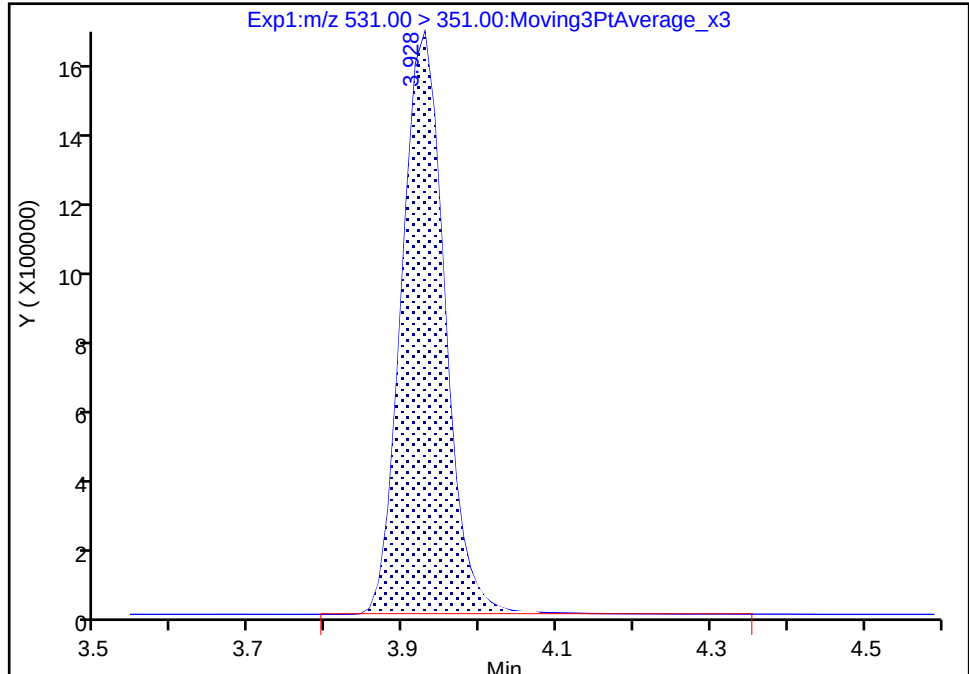
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

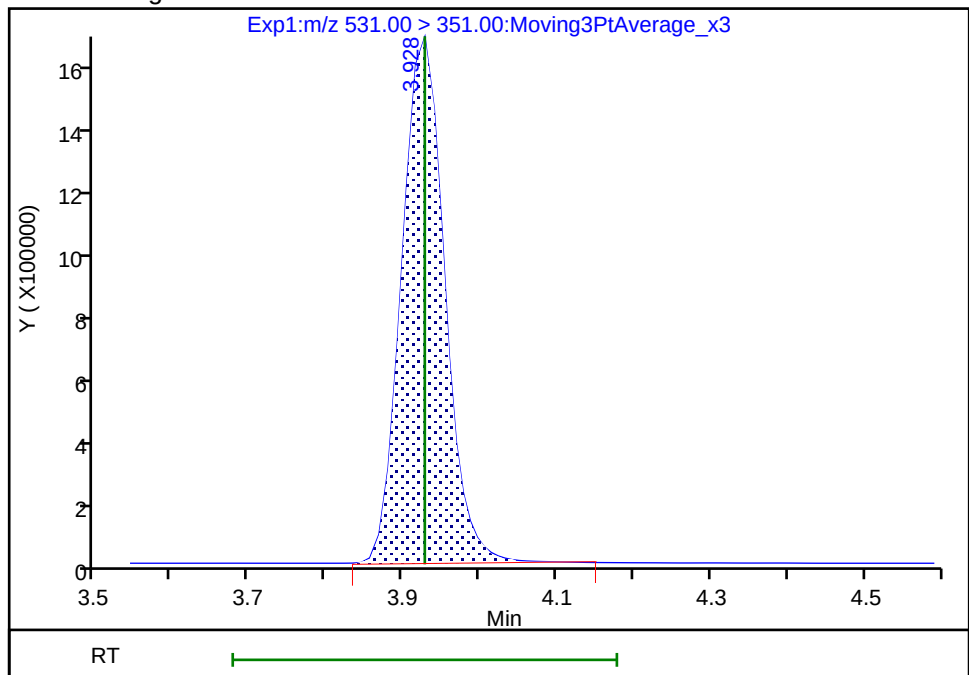
RT: 3.93
Area: 6530993
Amount: 2.363920
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 6499870
Amount: 2.352655
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:54:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

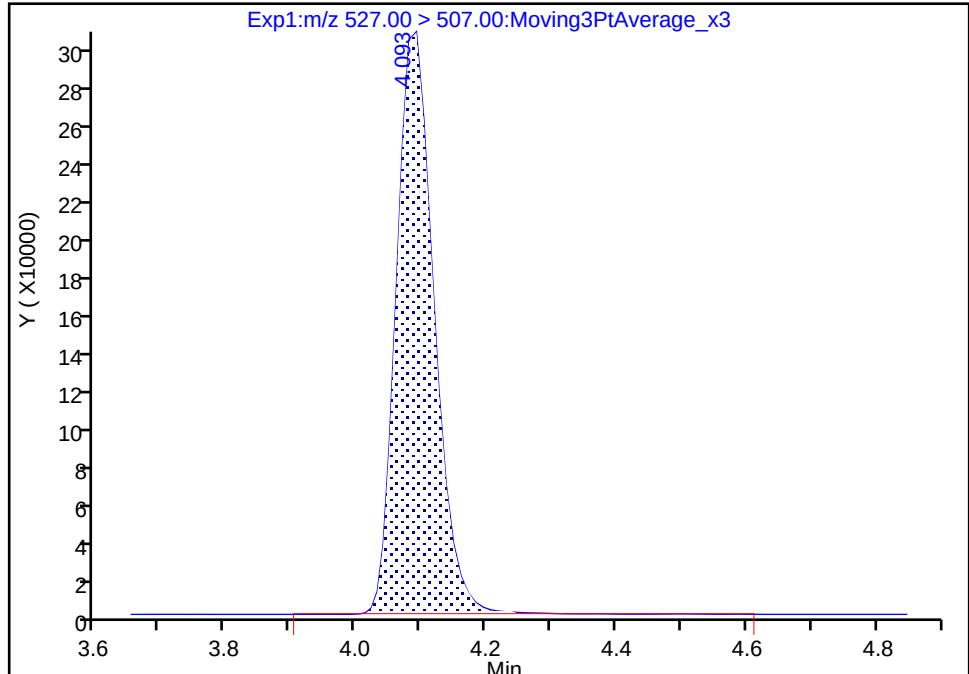
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

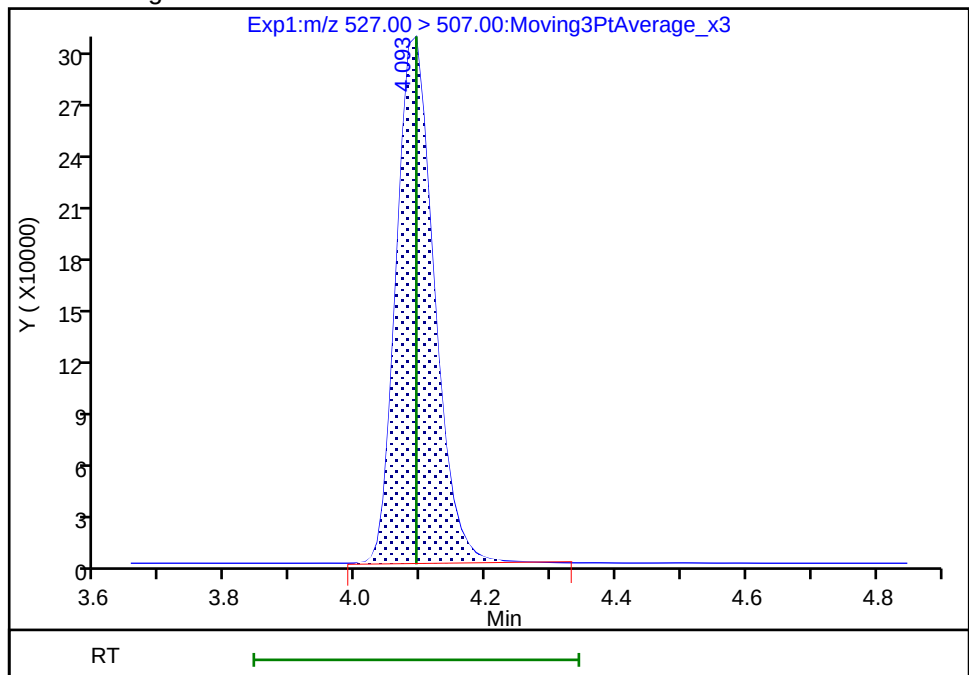
RT: 4.09
Area: 1238820
Amount: 2.521789
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 1234024
Amount: 2.512026
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:54:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

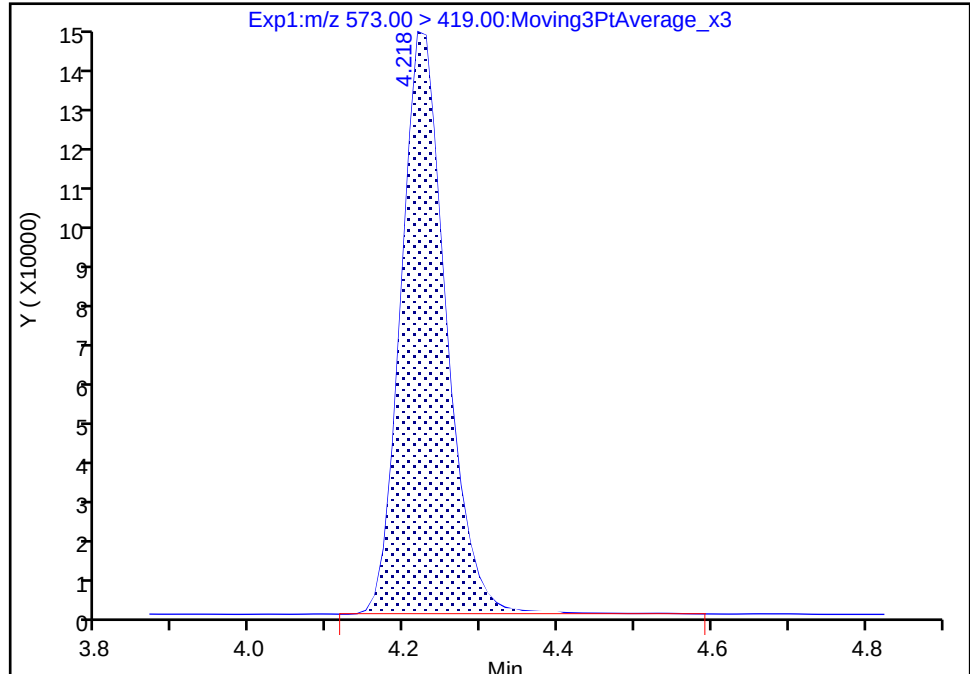
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

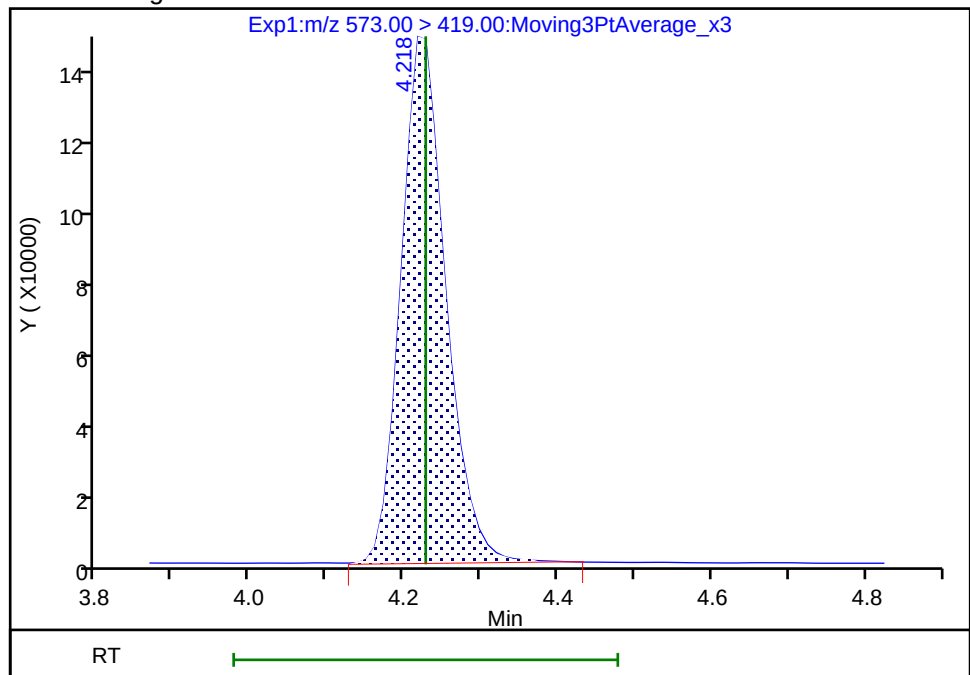
RT: 4.22
Area: 578300
Amount: 1.307403
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 574993
Amount: 1.299927
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:52:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

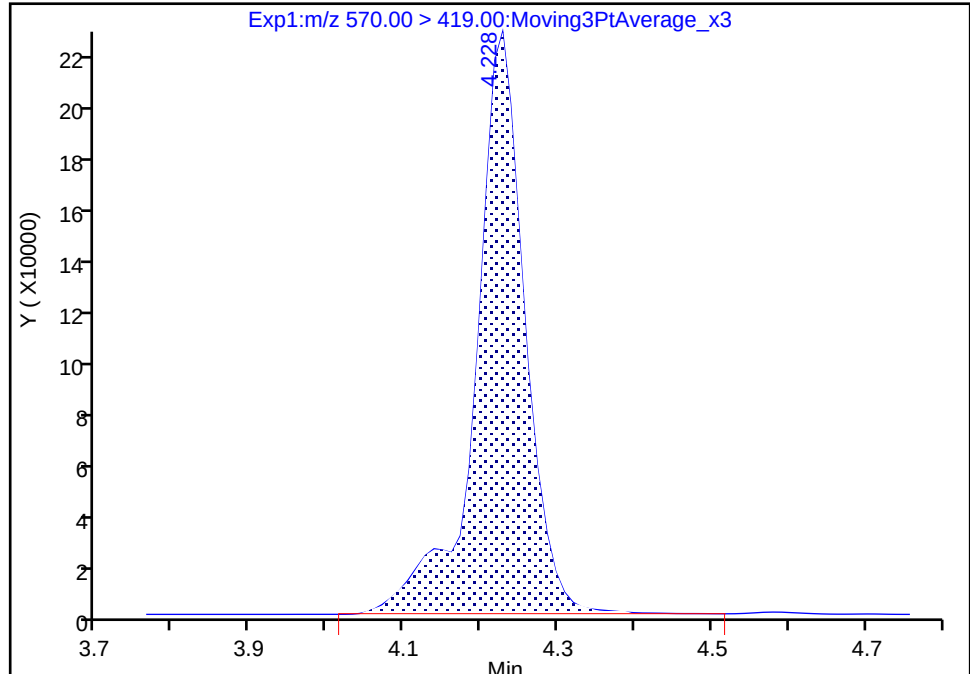
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

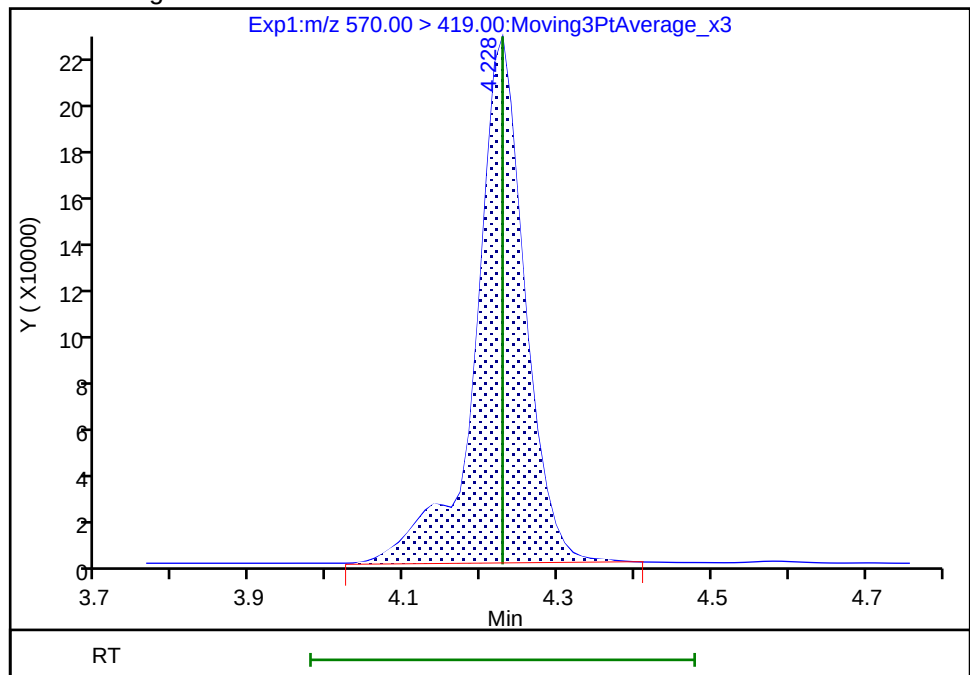
RT: 4.23
Area: 996676
Amount: 2.507092
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 988085
Amount: 2.485382
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:54:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

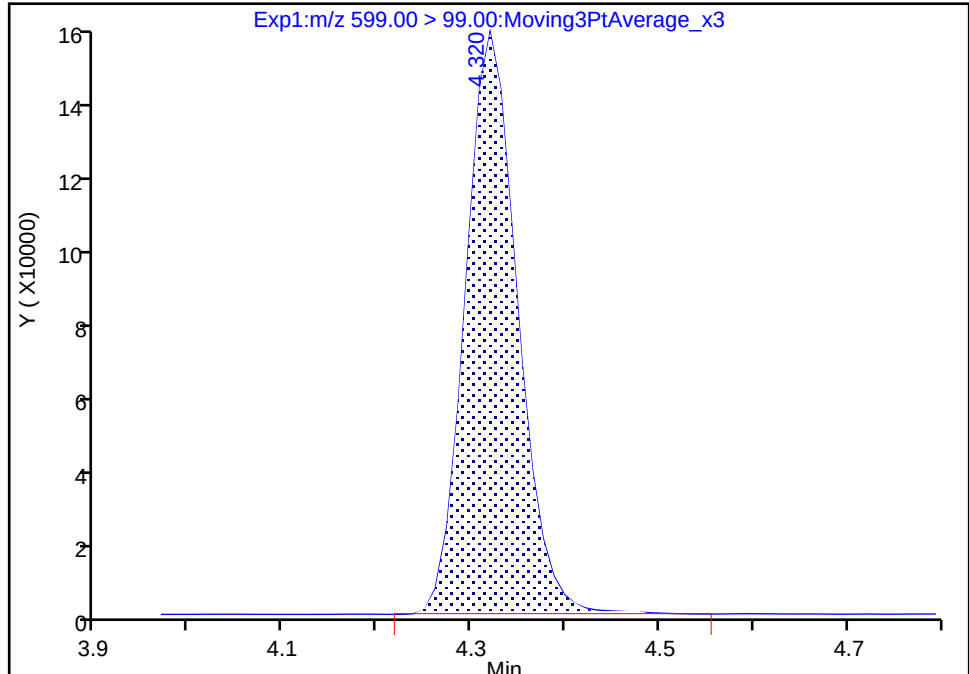
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d		
Injection Date:	04-Jan-2023 17:28:58	Instrument ID:	LC812
Lims ID:	CCV L5		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	18 Worklist Smp#: 21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

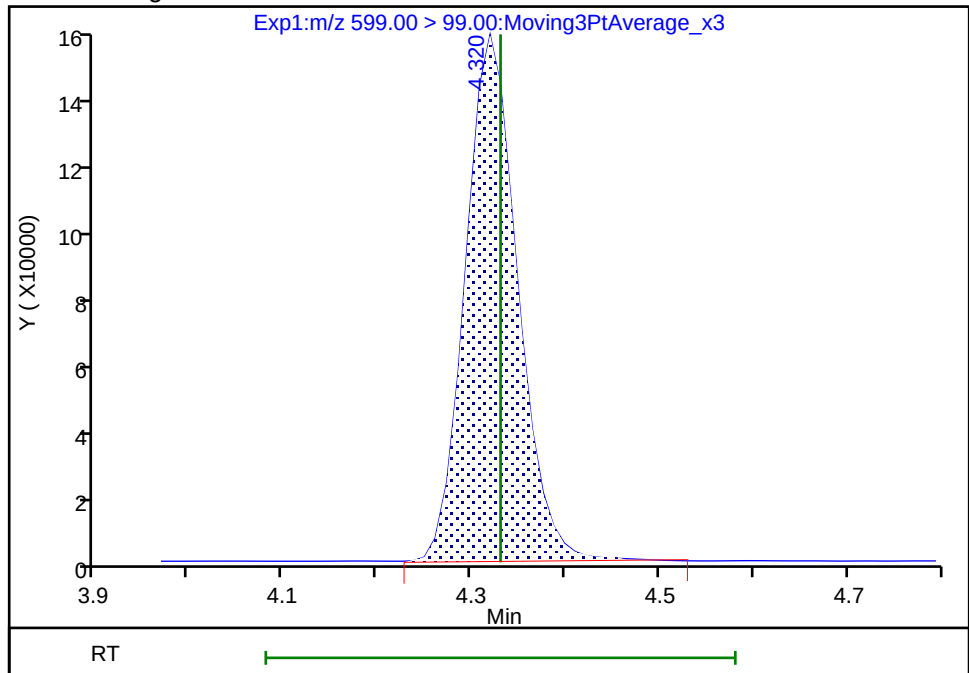
RT: 4.32
Area: 607624
Amount: 2.199151
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 606166
Amount: 2.199151
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:54:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

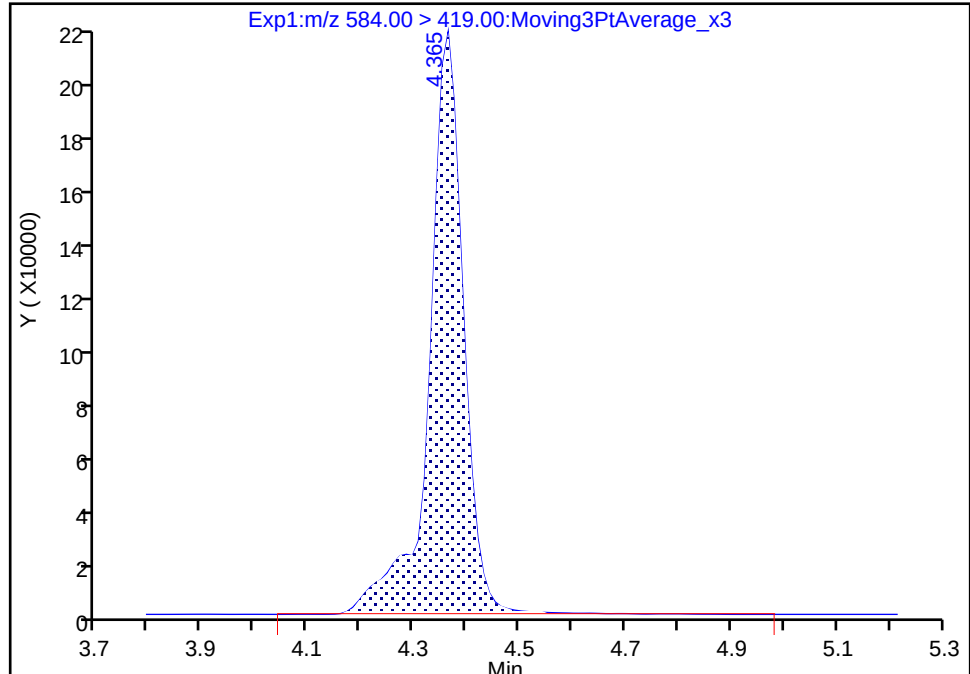
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

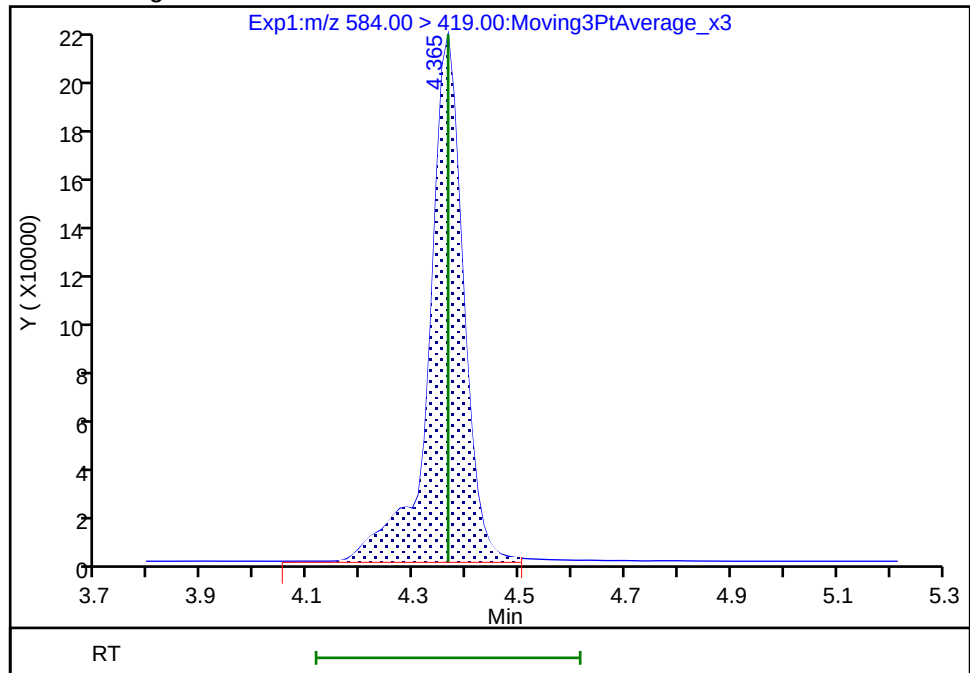
RT: 4.36
Area: 959263
Amount: 2.385844
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 950173
Amount: 2.363236
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:55:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

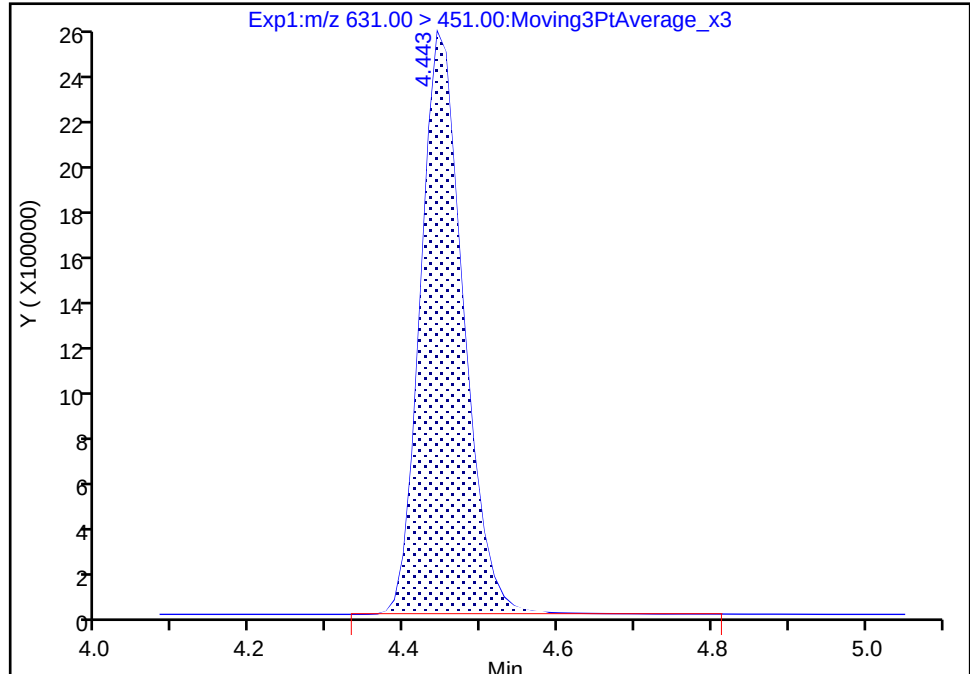
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

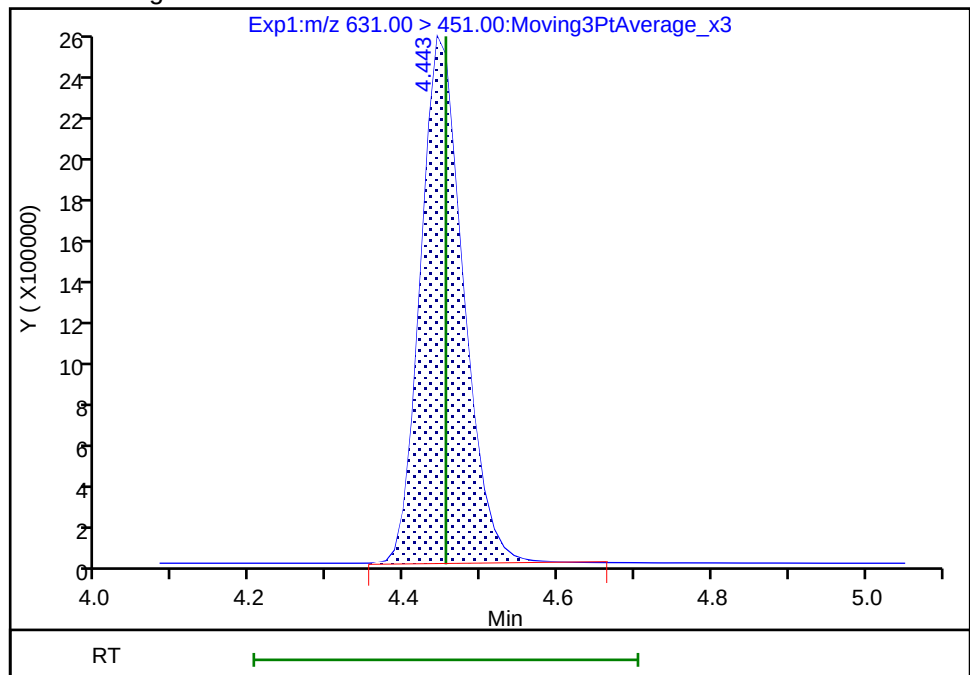
RT: 4.44
Area: 10015981
Amount: 2.351804
Amount Units: ng/ml

Processing Integration Results



RT: 4.44
Area: 9982176
Amount: 2.343866
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:55:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

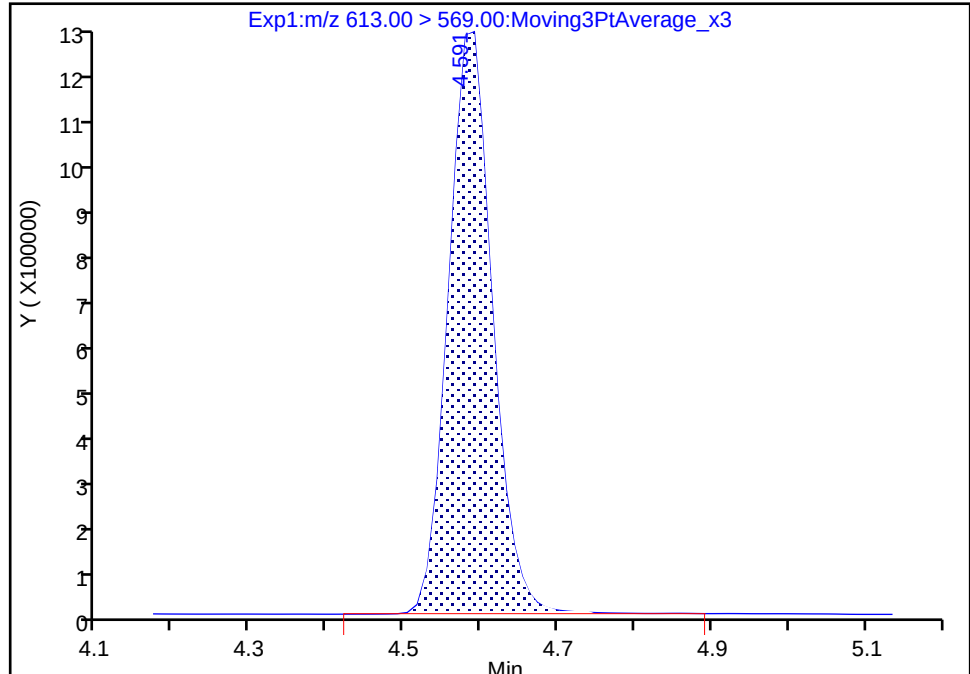
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

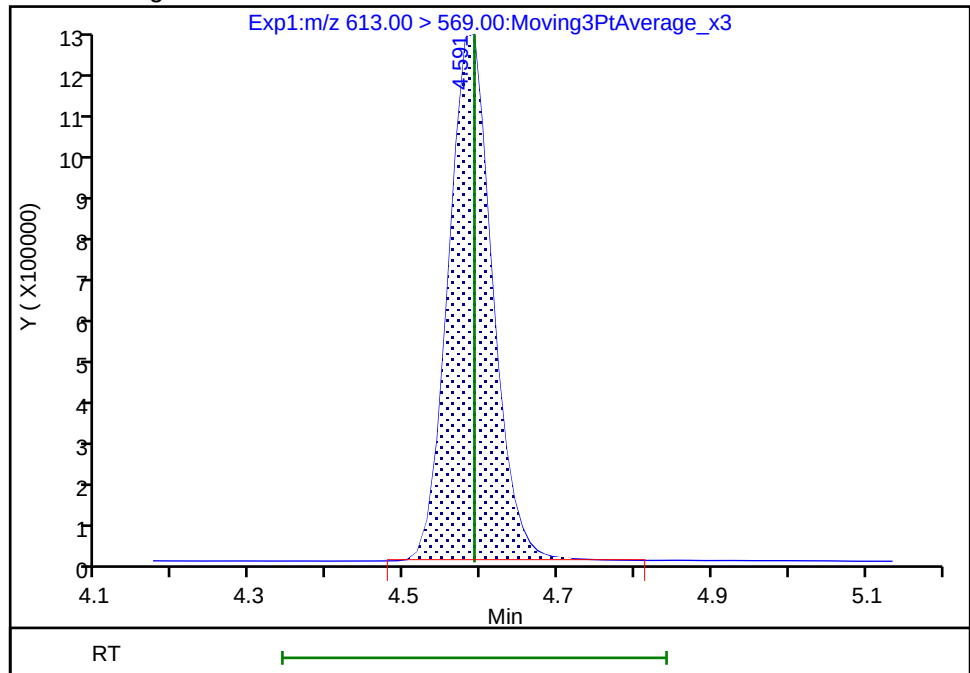
RT: 4.59
Area: 5112956
Amount: 2.134514
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 5101691
Amount: 2.129811
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:55:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

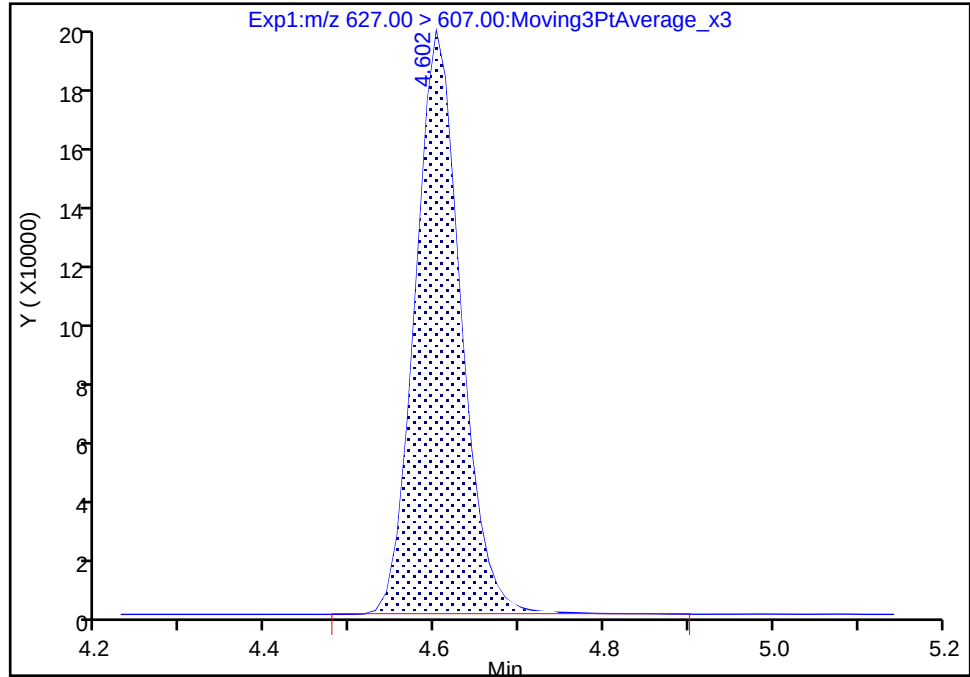
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

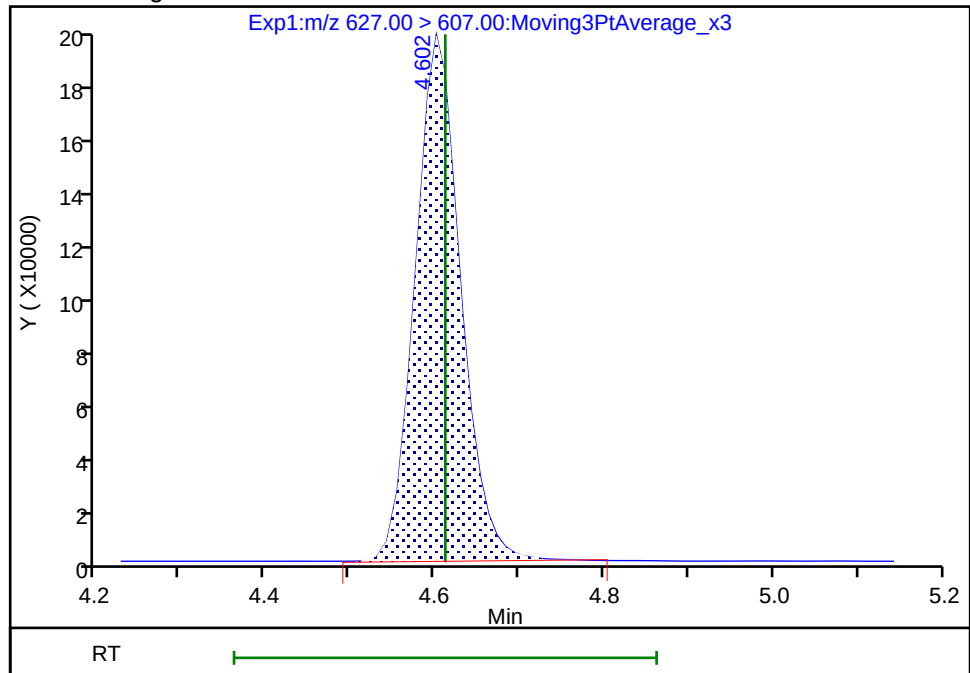
RT: 4.60
Area: 745795
Amount: 2.526437
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 742186
Amount: 2.514211
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:55:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

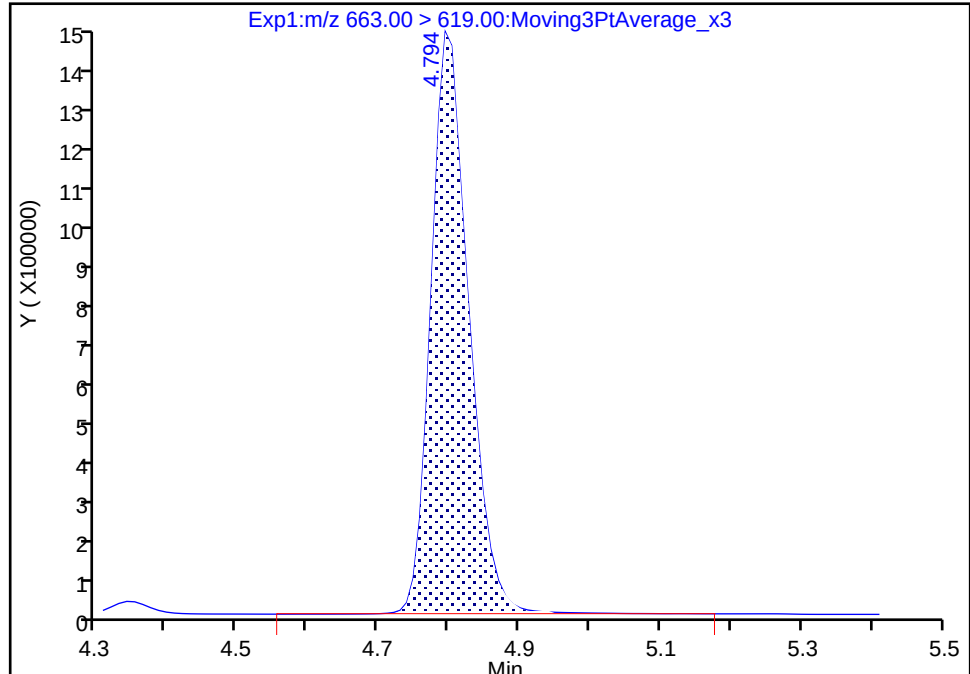
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

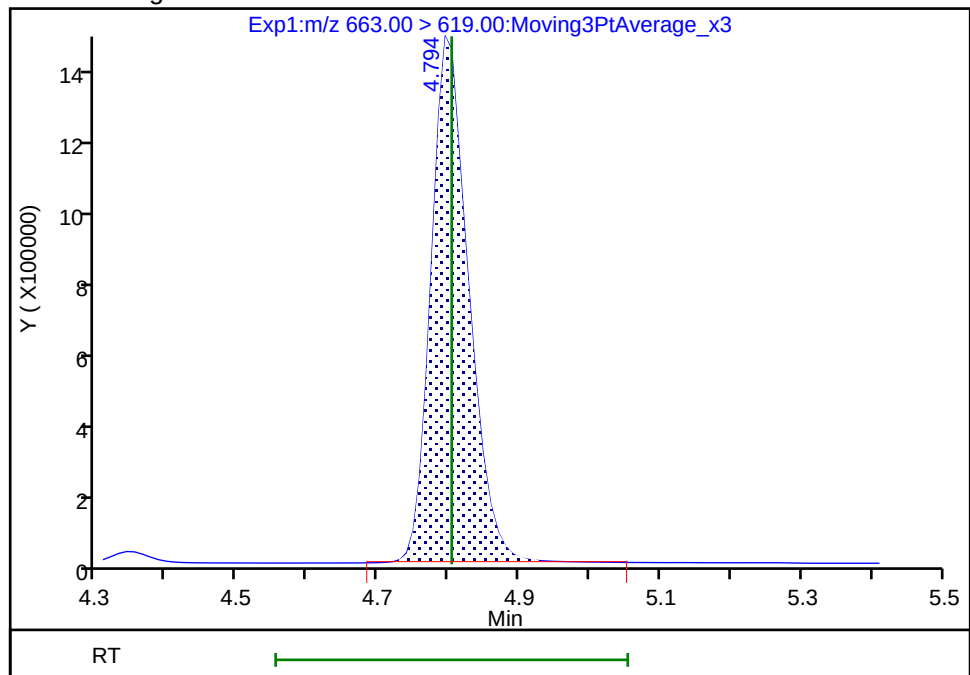
RT: 4.79
Area: 5310704
Amount: 2.318232
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 5289723
Amount: 2.309073
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:55:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

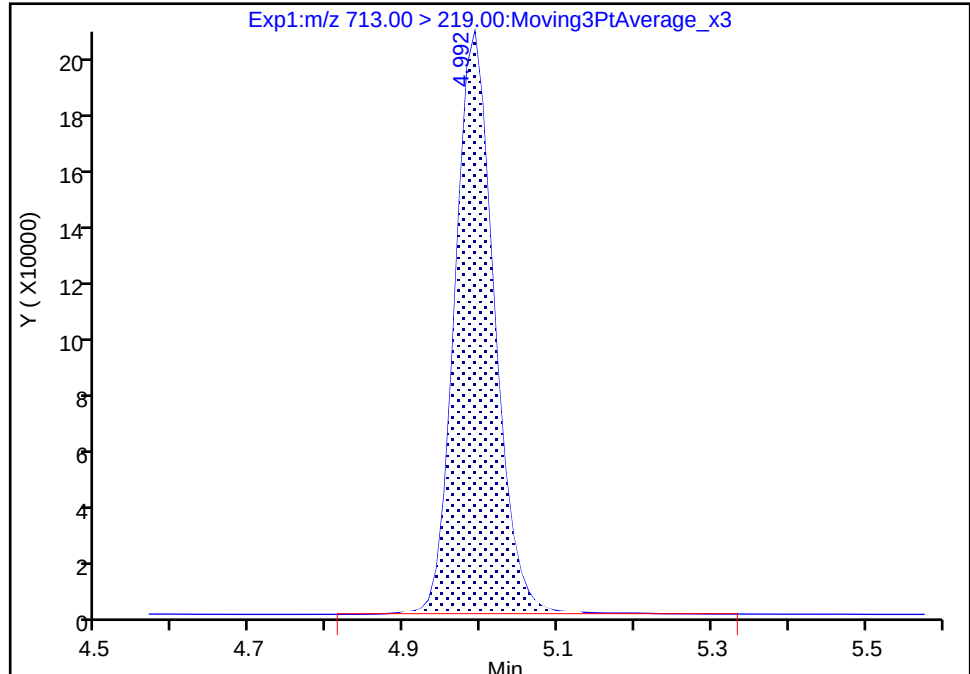
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

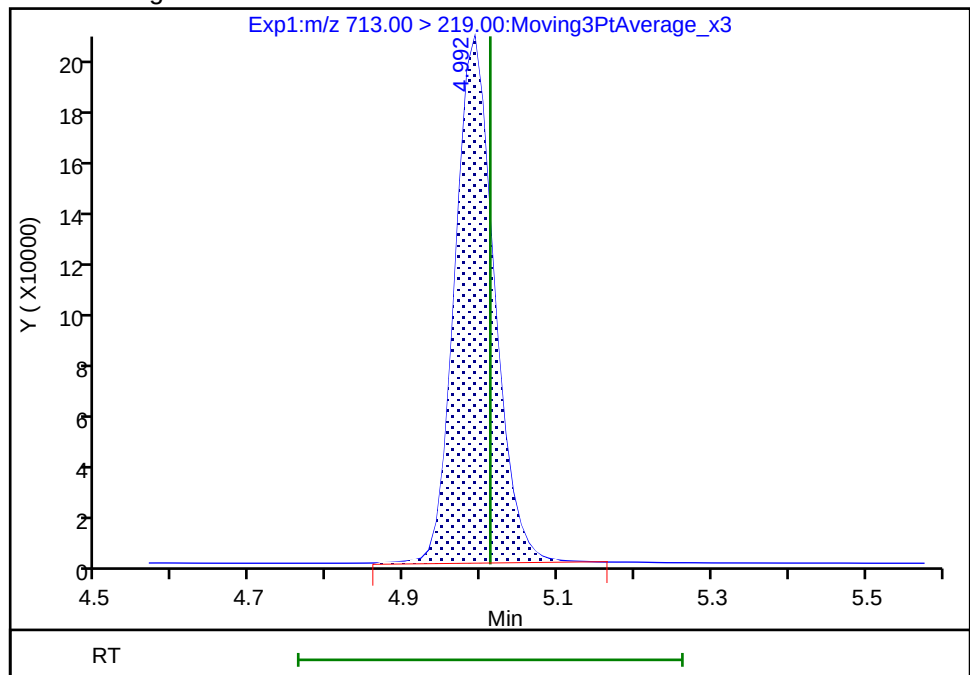
RT: 4.99
Area: 728175
Amount: 2.173664
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 722156
Amount: 2.173664
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:55:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

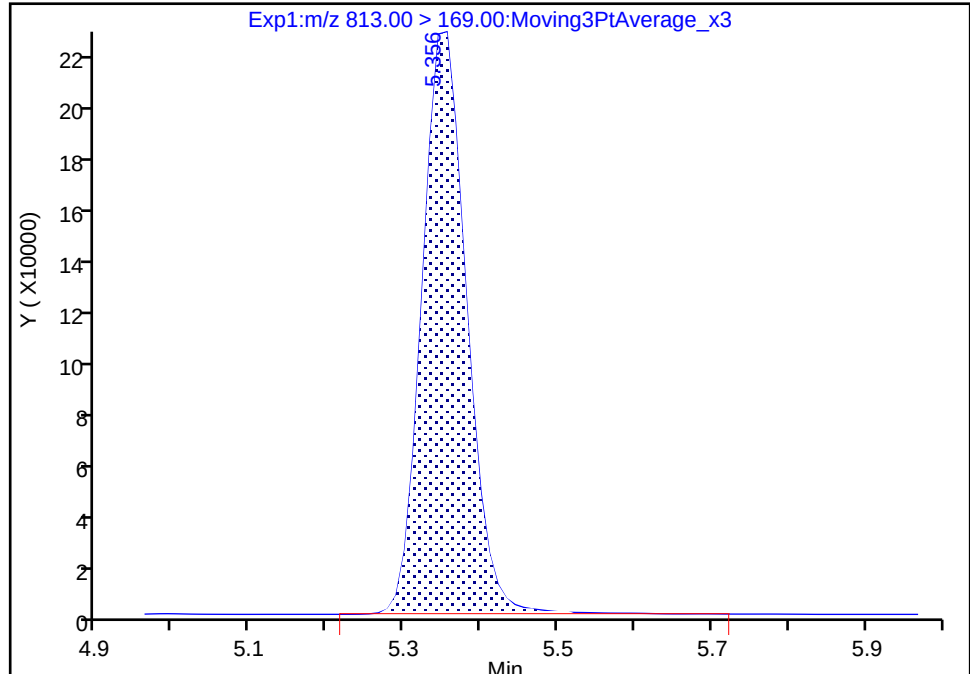
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A21.d
Injection Date: 04-Jan-2023 17:28:58 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

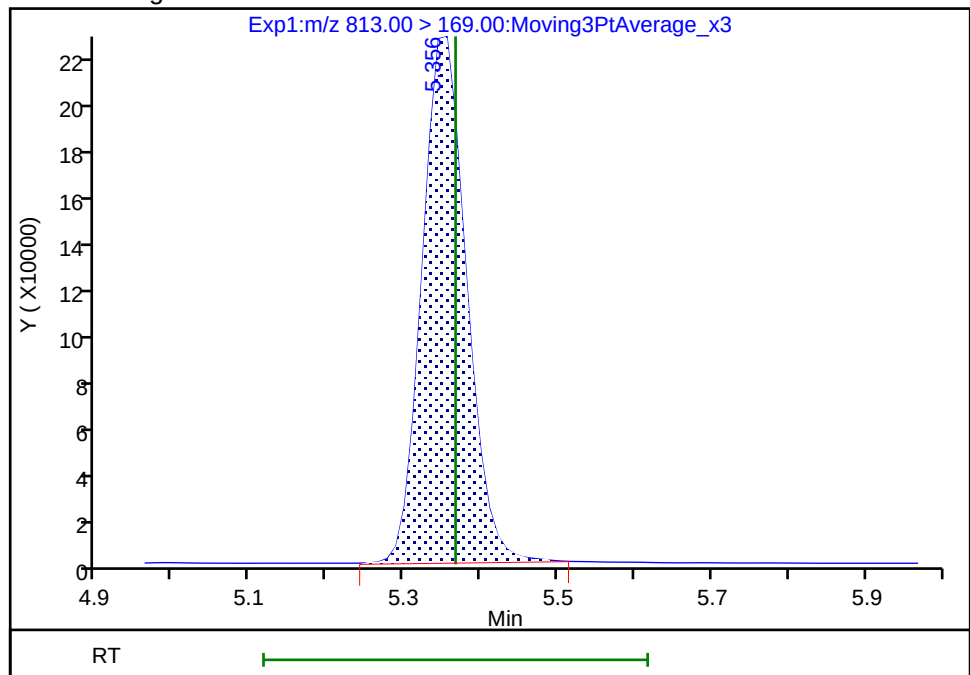
RT: 5.36
Area: 919447
Amount: 2.295814
Amount Units: ng/ml

Processing Integration Results



RT: 5.36
Area: 909634
Amount: 2.295814
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:55:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCVLIS 200-187284/5 Calibration Date: 01/05/2023 15:22

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230105A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	1.148		0.139	0.125	11.3	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.103		0.0506	0.0500	1.2	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.165		0.0450	0.0442	1.9	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	3.172		0.0481	0.0467	3.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.038		0.0476	0.0500	-4.7	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.373		0.0482	0.0469	2.8	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	1.015		0.0961	0.100	-3.9	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.224		0.0494	0.0455	8.5	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.129		0.0519	0.0500	3.7	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.619		0.0481	0.0471	2.0	50.0
6:2 FTS	L1ID		2.402		0.123	0.119	3.7	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.456		0.0496	0.0476	4.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.009		0.0472	0.0500	-5.6	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.281		0.0489	0.0464	5.3	50.0
Perfluorononanoic acid (PFNA)	AveID	1.037	1.007		0.0485	0.0500	-2.9	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	3.053		0.0510	0.0466	9.4	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.9398		0.0491	0.0480	2.4	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.056		0.0487	0.0500	-2.7	50.0
8:2 FTS	AveID	1.617	1.831		0.0542	0.0479	13.3	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9946		0.0476	0.0500	-4.8	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.9362		0.124	0.125	-0.5	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6848		0.0455	0.0482	-5.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	1.014		0.0503	0.0500	0.6	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.9097		0.127	0.125	1.6	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.742		0.0519	0.0471	10.2	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.040		0.0491	0.0500	-1.9	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.085		0.0538	0.0482	11.7	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.3093		0.0488	0.0484	0.9	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187284/5 Calibration Date: 01/05/2023 15:22
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA230105A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	1.029		0.0508	0.0500	1.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1301		0.0475	0.0500	-4.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.107		0.0431	0.0500	-13.8	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8243		0.0500	0.0500	0.0	50.0
13C4 PFBA	Ave	1.122	1.014		1.13	1.25	-9.6	
13C5 PFPeA	Ave	0.8543	0.8084		1.18	1.25	-5.4	
13C3 PFBS	Ave	0.9281	0.9110		1.14	1.16	-1.9	
M2-4:2 FTS	Ave	0.0820	0.0852		1.21	1.17	3.9	
13C2 PFHxA	Ave	0.8951	0.8569		1.20	1.25	-4.3	
13C3 HFPO-DA	Ave	0.1580	0.1582		1.25	1.25	0.2	
18O2 PFHxS	Ave	0.6761	0.6795		1.19	1.18	0.5	
13C4 PFHpA	Ave	0.9206	0.8882		1.21	1.25	-3.5	
M2-6:2 FTS	Ave	0.1134	0.1247		1.31	1.19	10.0	
13C4 PFOA	Ave	1.035	1.073		1.30	1.25	3.7	
13C4 PFOS	Ave	0.4588	0.4496		1.17	1.20	-2.0	
13C5 PFNA	Ave	1.006	1.077		1.34	1.25	7.1	
13C2 PFDA	Ave	1.025	1.128		1.38	1.25	10.1	
M2-8:2 FTS	Ave	0.1387	0.1546		1.34	1.20	11.5	
13C8 FOSA	Ave	0.8403	0.8653		1.29	1.25	3.0	
d3-NMeFOSAA	Ave	0.2087	0.2154		1.29	1.25	3.2	
13C2 PFUnA	Ave	0.9385	1.037		1.38	1.25	10.5	
d5-NEtFOSAA	Ave	0.2055	0.2099		1.28	1.25	2.2	
13C2 PFDoA	Ave	0.9562	1.028		1.34	1.25	7.5	
13C2 PFTeDA	Ave	0.8270	0.9869		1.49	1.25	19.3	
13C2 PFHxDA	Ave	1.022	1.213		1.48	1.25	18.7	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 05-Jan-2023 15:22:07 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0053906-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:18:06 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 11:28:28

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	2.076	0.0	0.602	2829276	1.13		90.4	10658	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	324820	0.1392		111	26.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2254474	1.18		94.6	3456	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	99465	0.0506		101	2.7	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.696	2362793	1.14		98.1	122872	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	104686	0.0450	Target=2.09	102	150	M
298.90 > 99.00	2.400	2.400	0.0	1.000	49073		2.13(1.04-3.13)		32.3	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	28165	0.0481		103	295	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.780	221966	1.21		104	195	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2389791	1.20		95.7	4743	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	99212	0.0476	Target=14.25	95.3	15.4	M
313.00 > 119.00	2.725	2.725	0.0	1.000	6904		14.37(7.12-21.37)		13.8	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.738	2.737	0.001	0.887	97584	0.0482	Target=3.04	103	126	M
349.00 > 99.00	2.738	2.737	0.001	0.887	33051		2.95(1.52-4.56)		70.4	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	35827	0.0961		96.1	268	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	2.835	2.835	0.0	0.822	441343	1.25		100	1688	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1792640	1.19		100	3613	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	84457	0.0494	Target=3.66	108	185	M
399.00 > 99.00	3.088	3.088	0.0	1.000	25130		3.36(1.83-5.49)		36.7	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2477035	1.21		96.5	3139	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.000	111898	0.0519	Target=3.97	104	19.6	M
363.00 > 169.00	3.099	3.099	0.0	1.000	25648		4.36(1.98-5.95)		36.3	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.834	265480	0.0481	Target=3.16	102	361	
377.00 > 85.00	3.132	3.132	0.0	0.834	83719		3.17(1.58-4.73)		172	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.995	330459	1.31		110	901	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.000	79204	0.1229		104	46.6	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.914	69544	0.0496	Target=5.14	104	171	M
449.00 > 99.00	3.430	3.439	-0.009	0.914	12930		5.38(2.57-7.72)		66.3	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2993123	1.30		104	5180	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2788960	1.25			4135	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	120759	0.0472	Target=2.79	94.4	8.9	M
413.00 > 169.00	3.448	3.448	0.0	1.000	44504		2.71(1.40-4.19)		42.4	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.089	1198708	1.17		98.0	3247	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.764	-0.010	1.000	59602	0.0489	Target=5.11	105	44.8	M
499.00 > 99.00	3.754	3.764	-0.010	1.000	12640		4.72(2.55-7.66)		54.8	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.003	121036	0.0485	Target=8.55	97.1	30.4	
463.00 > 169.00	3.773	3.783	-0.010	1.000	14265		8.48(4.28-12.83)		97.2	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.094	3004219	1.34		107	3808	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.046	142695	0.0510		109	571	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.050	0.001	1.079	45250	0.0491	Target=2.53	102	337	M
549.00 > 99.00	4.051	4.050	0.001	1.079	17287		2.62(1.27-3.80)		179	M
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.181	3146610	1.38		110	4744	

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	4.071	4.081	-0.010	1.000	132871	0.0487	Target=10.26	97.3	42.7	M
513.00 > 169.00	4.081	4.081	0.0	1.003	13561		9.80(5.13-15.38)		35.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.184	412992	1.33		111	1284	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.093	-0.012	1.000	30253	0.0542		113	208	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	96003	0.0476		95.2	129	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2413165	1.29		103	2231	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.217	4.228	-0.011	1.223	600639	1.29		103	1425	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.228	0.0	1.002	56233	0.1244		99.5	150	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.319	4.331	-0.012	1.151	33111	0.0455	Target=2.51	94.5	326	M
599.00 > 99.00	4.319	4.331	-0.012	1.151	13414		2.47(1.25-3.76)		174	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.259	2891150	1.38		110	4470	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.342	4.353	-0.011	1.000	117297	0.0503	Target=9.88	101	53.7	
563.00 > 169.00	4.342	4.353	-0.011	1.000	11400		10.29(4.94-14.82)		135	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.003	53257	0.1270		102	311	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.263	585447	1.28		102	1248	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.183	224045	0.0519		110	878	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.580	4.591	-0.011	1.000	119180	0.0491	Target=7.77	98.1	10.7	M
613.00 > 169.00	4.580	4.591	-0.011	1.000	15661		7.61(3.89-11.66)		89.1	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.328	2866233	1.34		107	3353	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.591	4.612	-0.021	1.125	18042	0.0538		112	215	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.758	4.776	-0.018	1.267	15017	0.0488	Target=0.50	101	364	M
699.00 > 99.00	4.758	4.776	-0.018	1.267	29429		0.51(0.25-0.76)		409	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.785	4.804	-0.019	1.045	117986	0.0508	Target=5.21	102	10.5	M
663.00 > 169.00	4.785	4.804	-0.019	1.045	20099		5.87(2.60-7.81)		162	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.982	5.012	-0.030	1.000	14327	0.0475	Target=0.89	95.1	93.4	M
713.00 > 219.00	4.982	5.012	-0.030	1.000	16737		0.86(0.44-1.33)		177	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.982	5.012	-0.030	1.445	2752320	1.49		119	6311	

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	5.344	5.367	-0.023	1.002	149829	0.0431	Target=5.65	86.2	14.0	M
813.00 > 169.00	5.344	5.367	-0.023	1.002	22538		6.65(2.82-8.47)		156	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.333	5.367	-0.034	1.547	3384384	1.48		119	4052	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.677	5.722	-0.045	1.064	111593	0.0500	Target=6.24	100	13.2	M
913.00 > 169.00	5.677	5.722	-0.045	1.064	14723		7.58(3.12-9.36)		149	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00024

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d

Injection Date: 05-Jan-2023 15:22:07

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

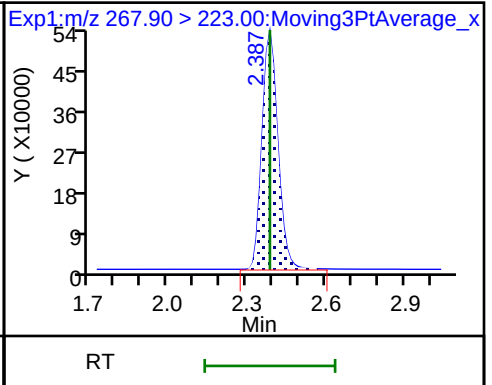
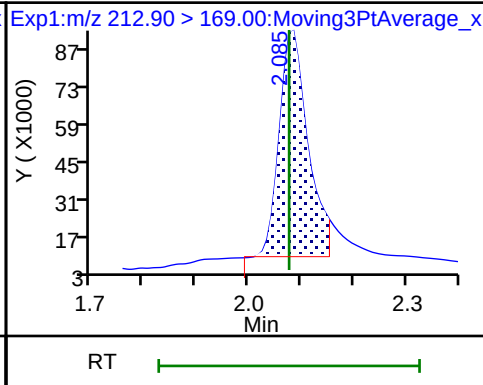
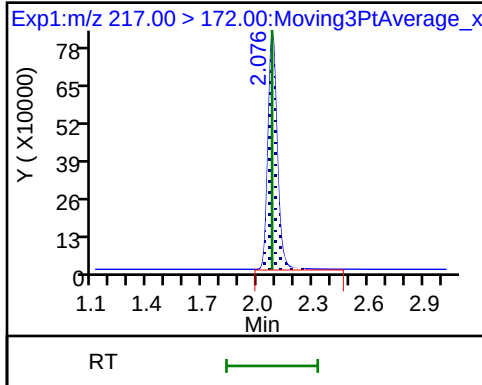
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

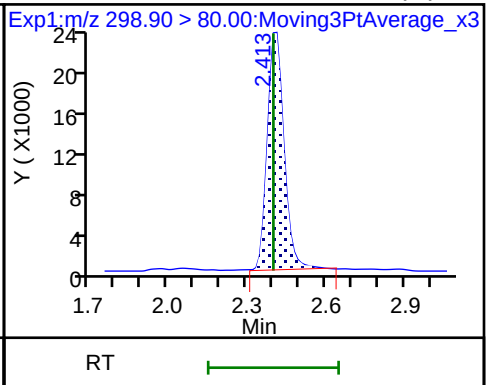
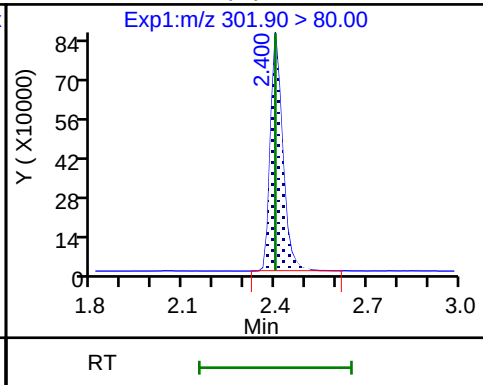
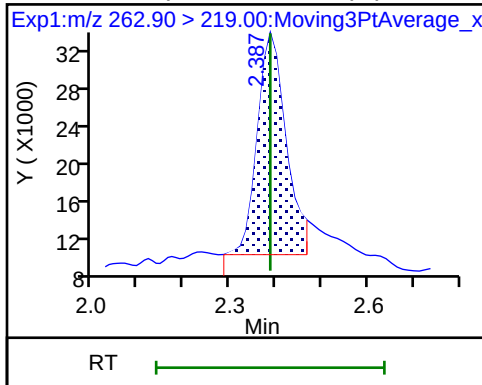
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

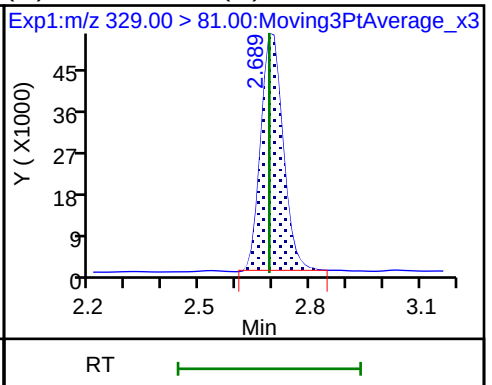
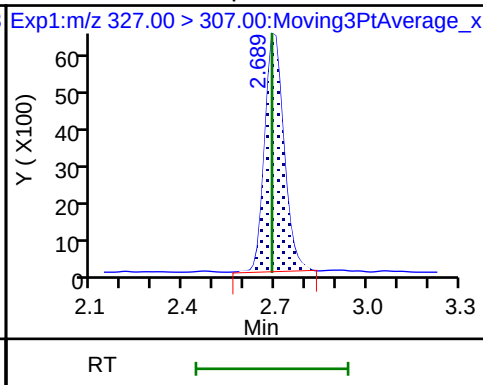
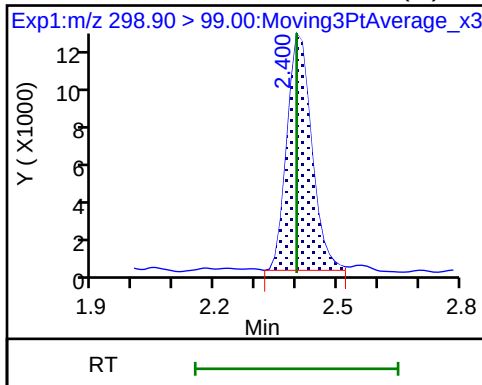
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

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

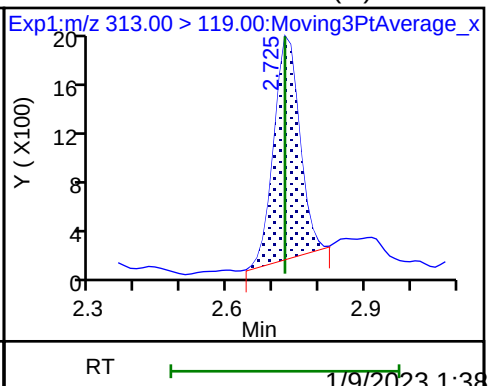
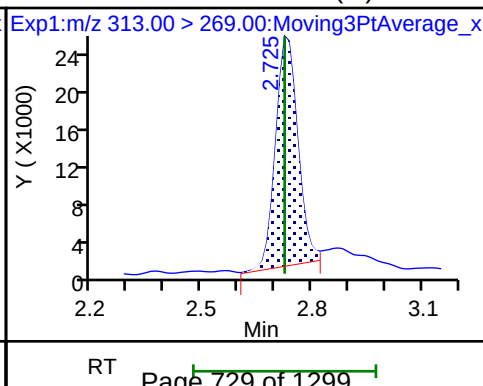
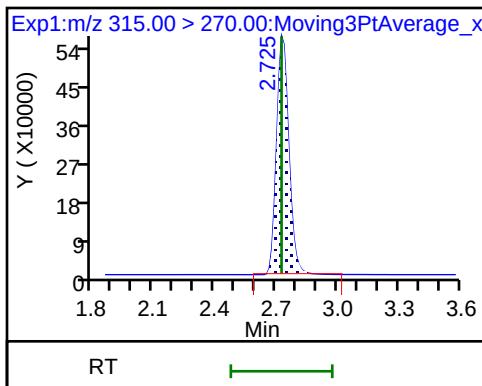
D 50 M2-4:2 FTS (M)

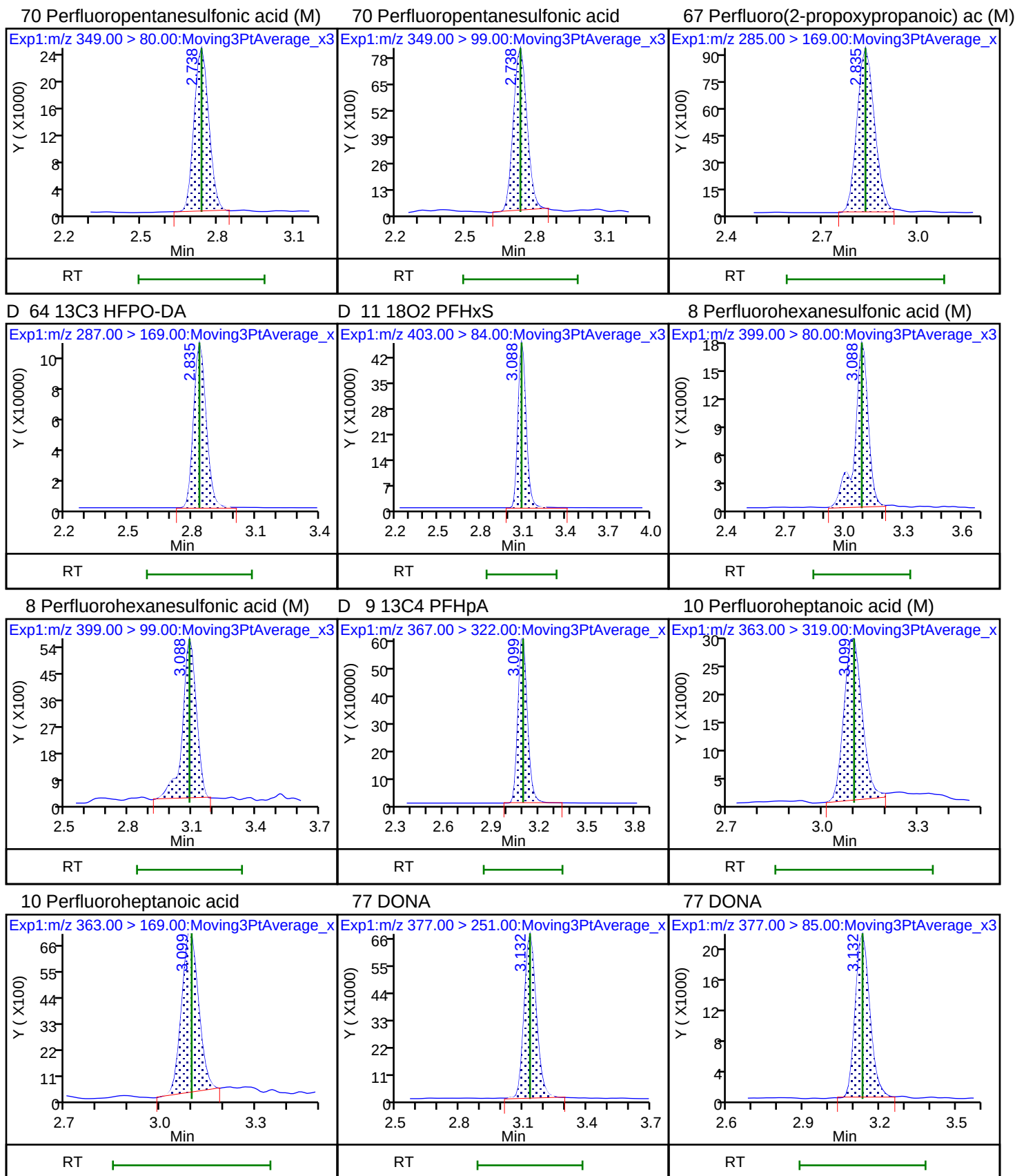


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

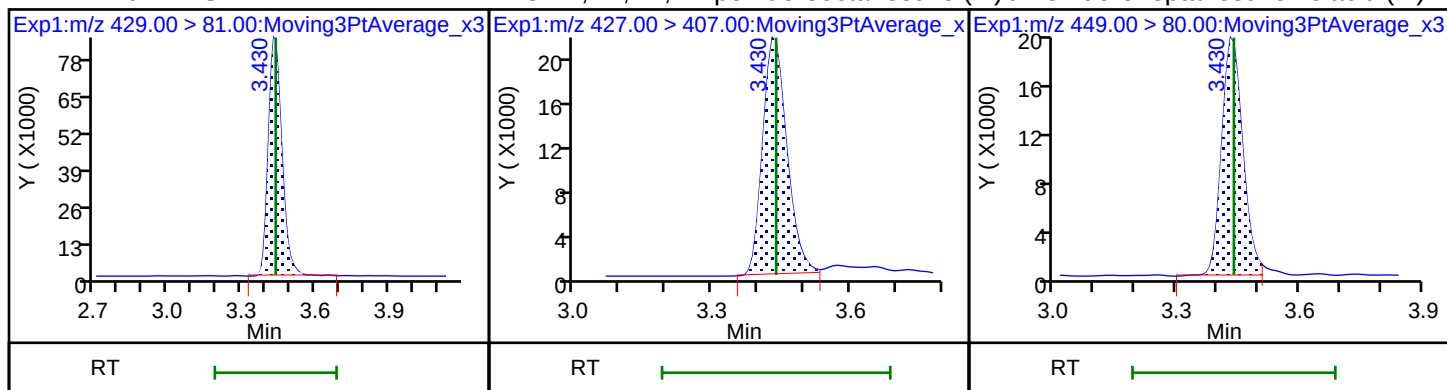
6 Perfluorohexanoic acid (M)





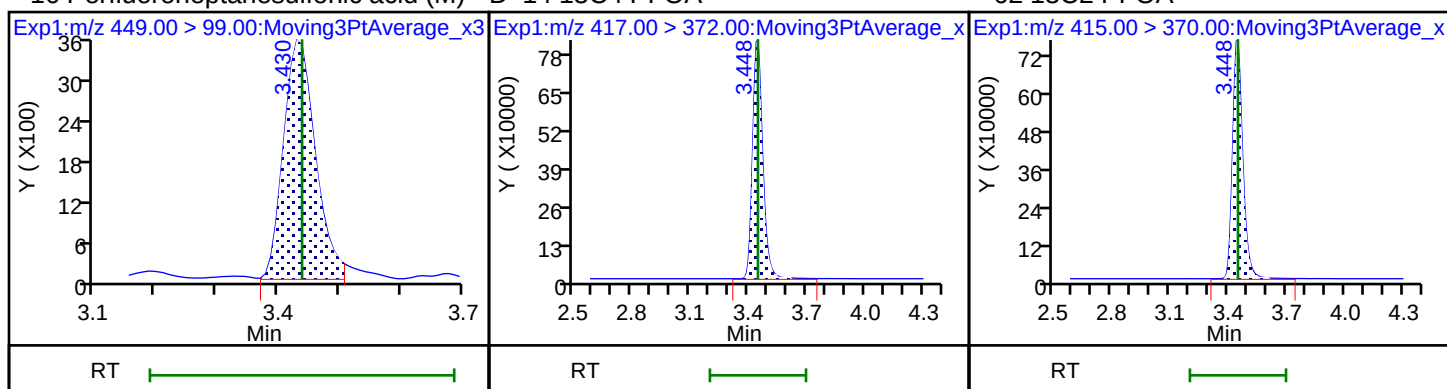
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

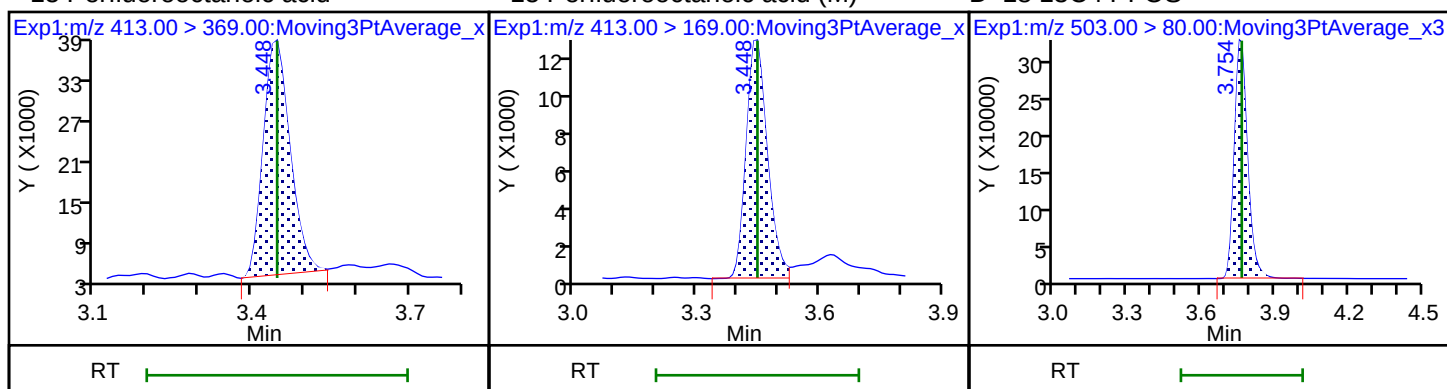
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

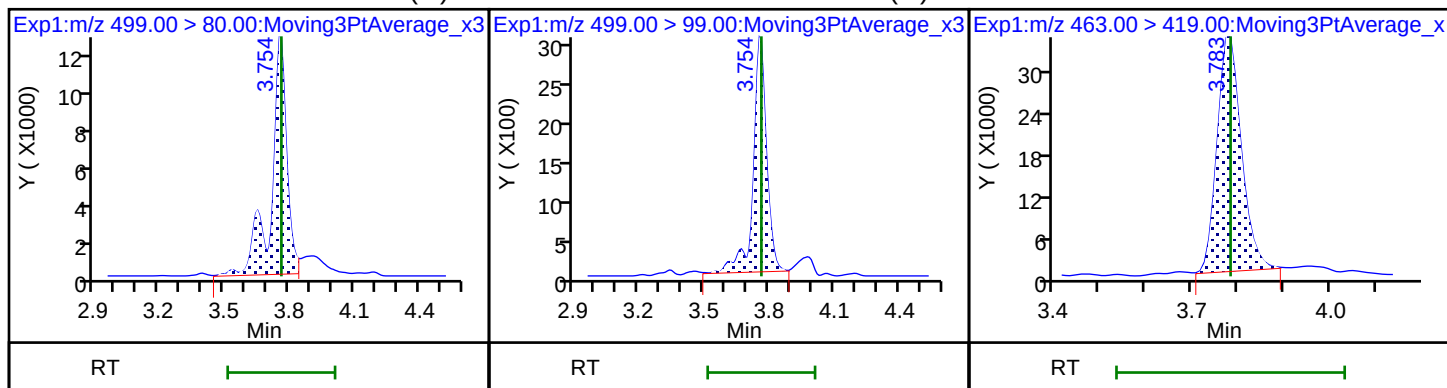
D 18 13C4 PFOS

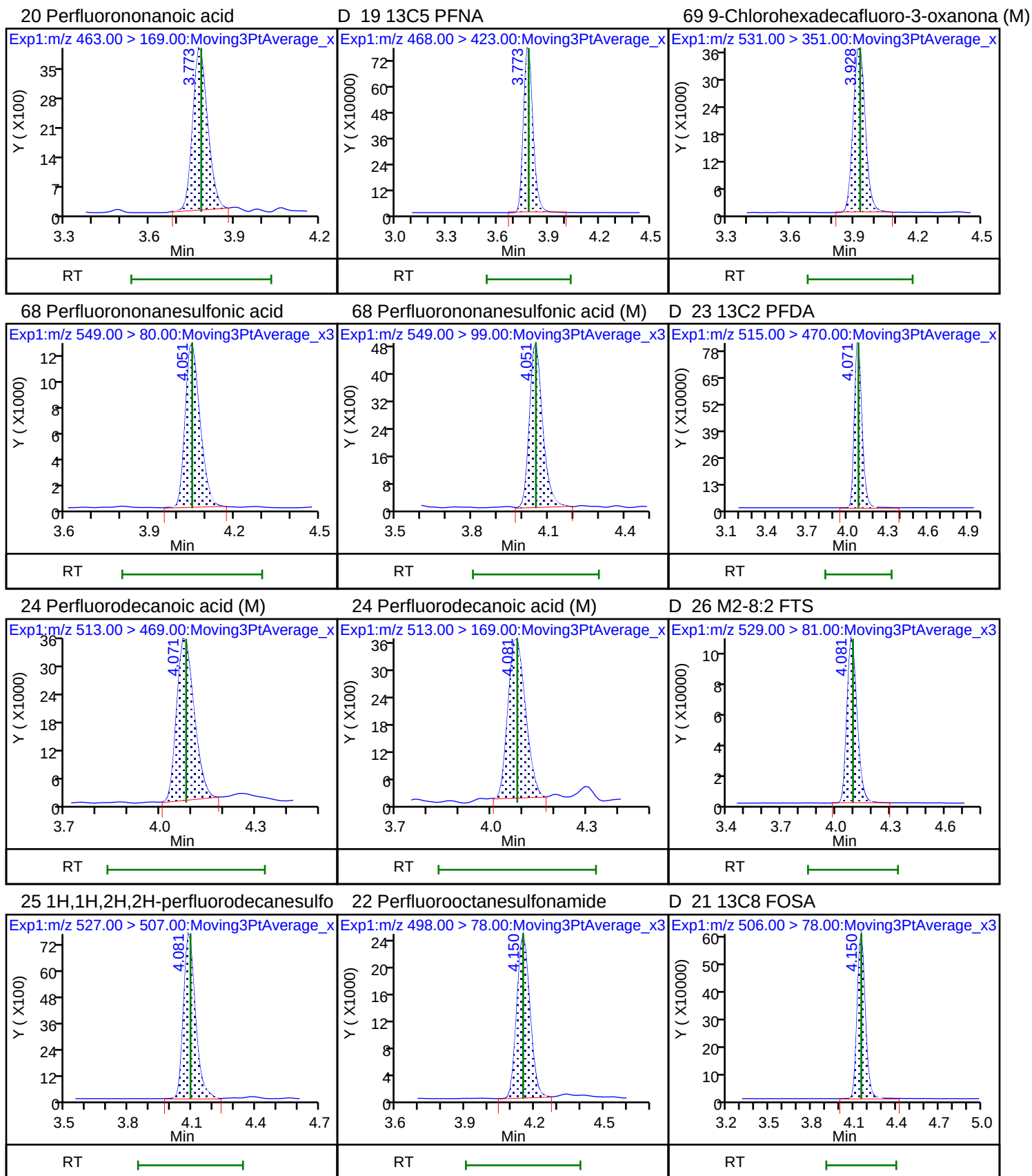


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

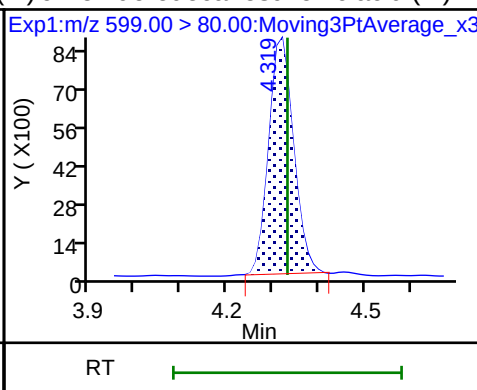
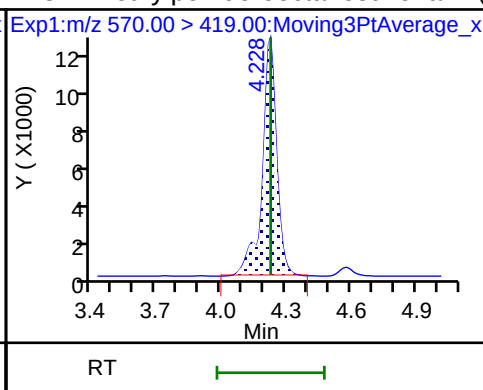
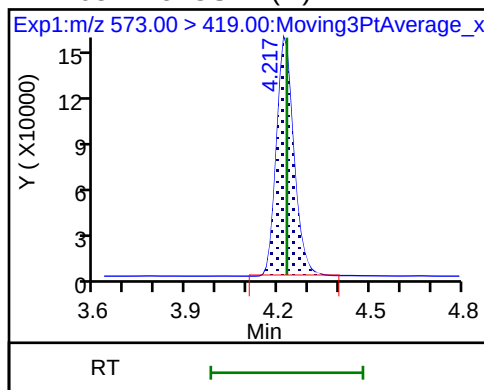




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

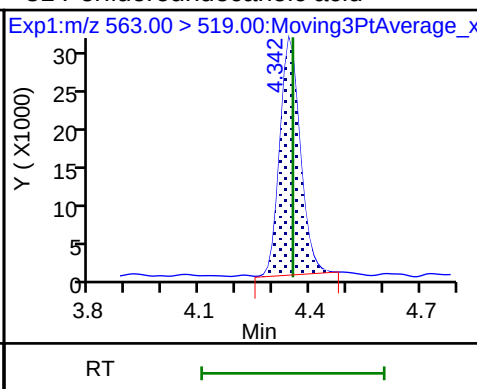
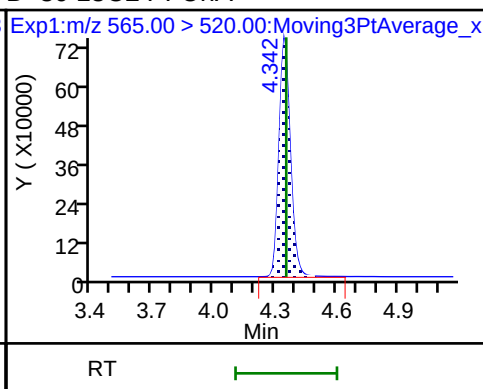
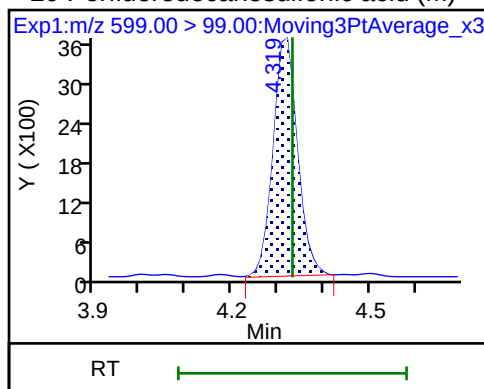
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

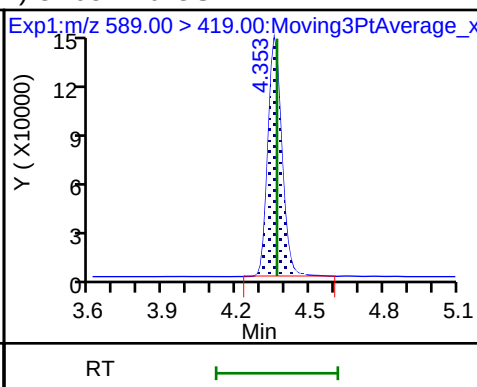
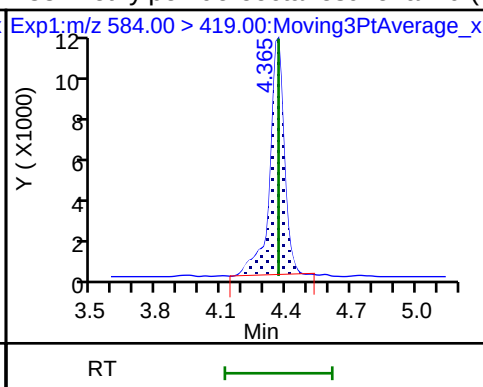
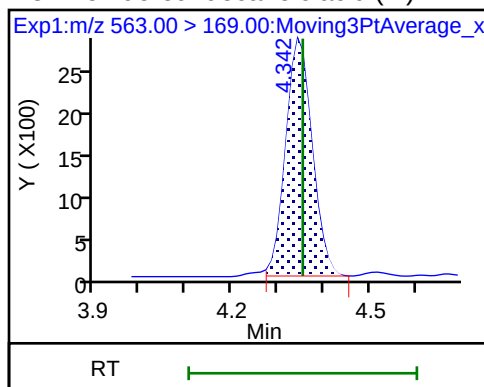
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

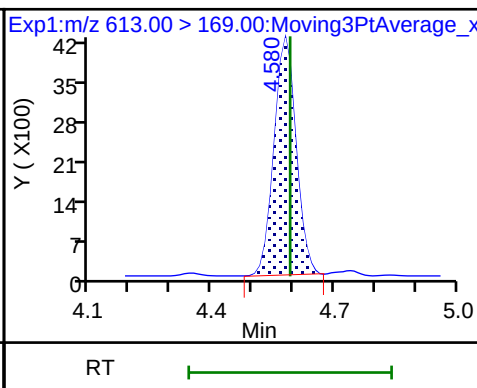
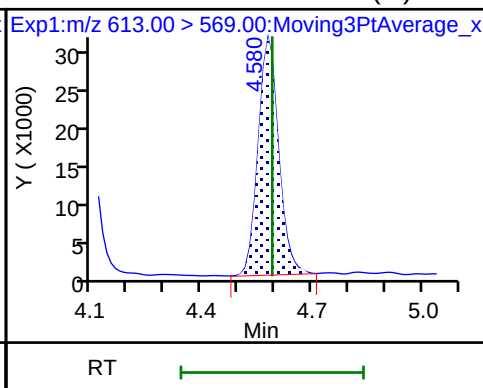
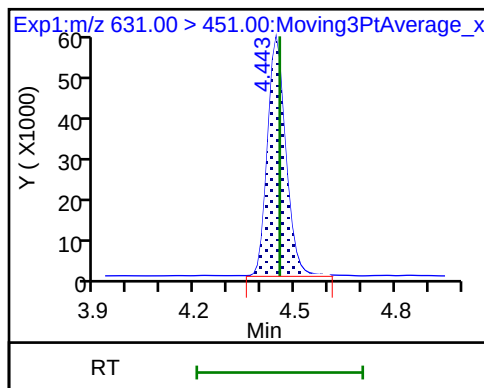
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

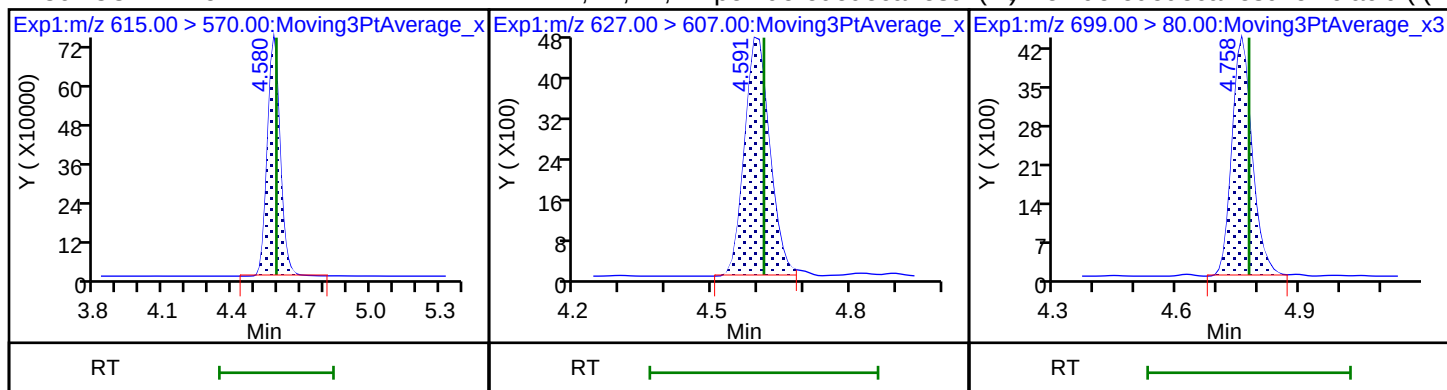
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

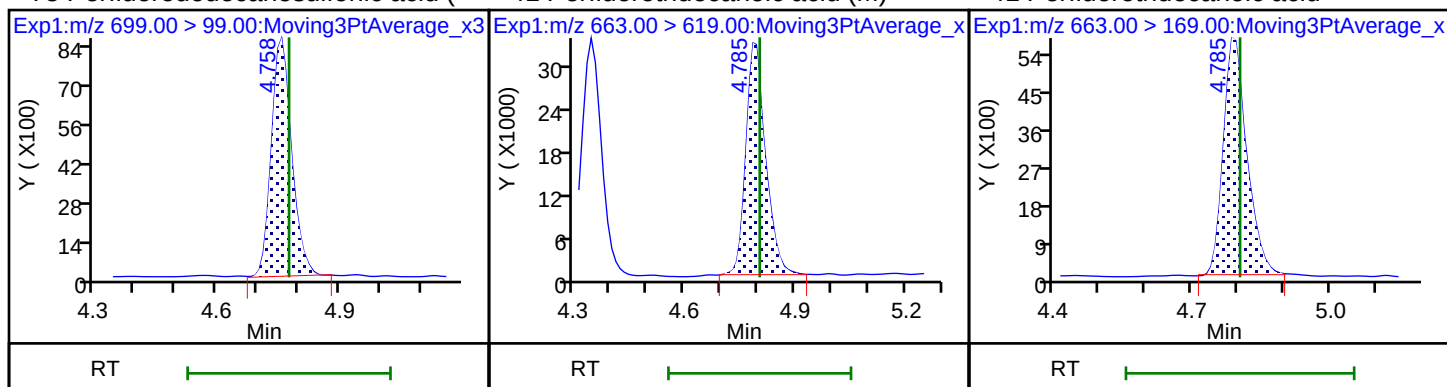
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

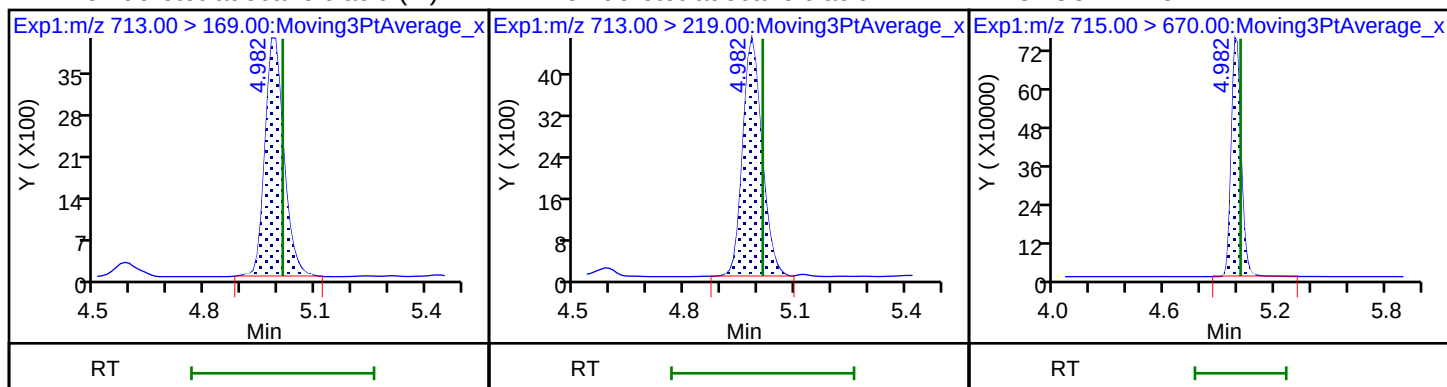
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

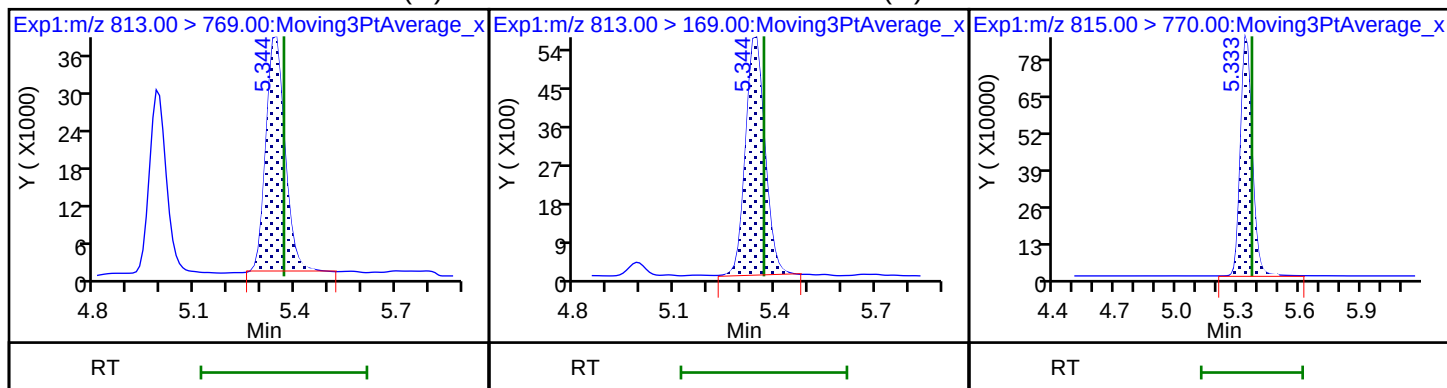
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

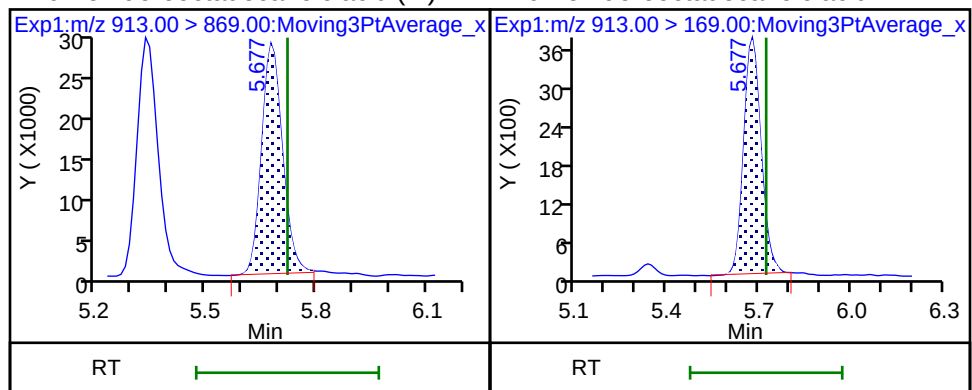
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

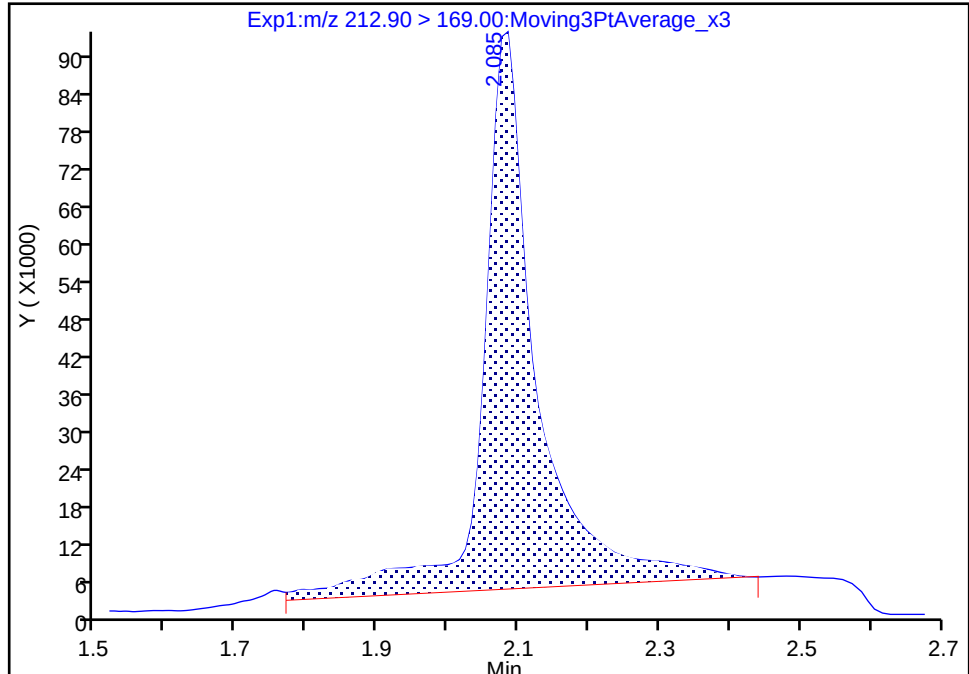
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Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

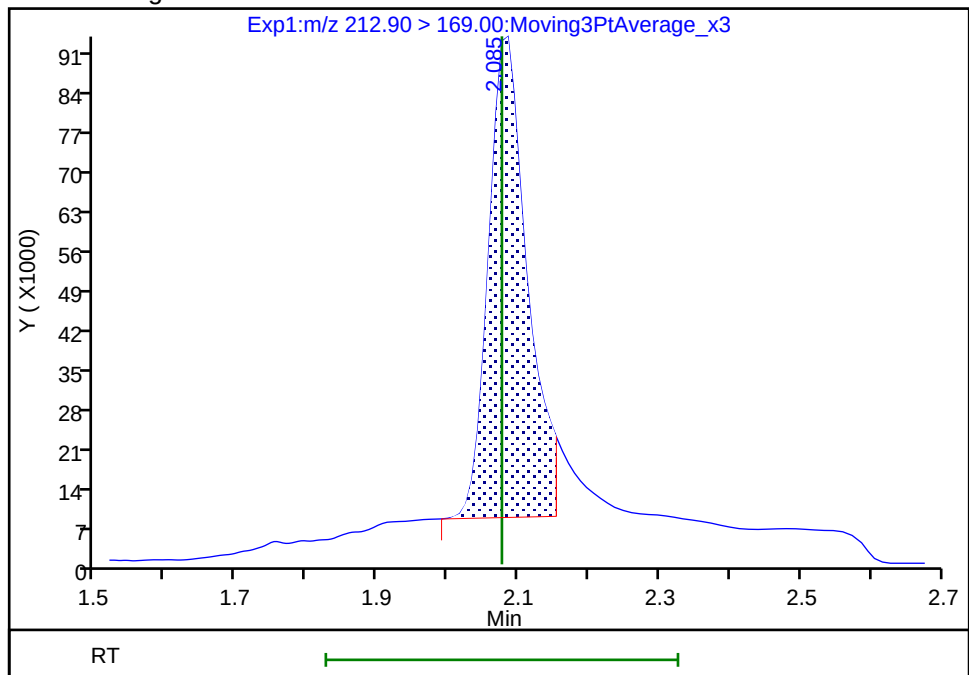
RT: 2.08
Area: 481998
Amount: 0.206509
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 324820
Amount: 0.139167
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:22:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

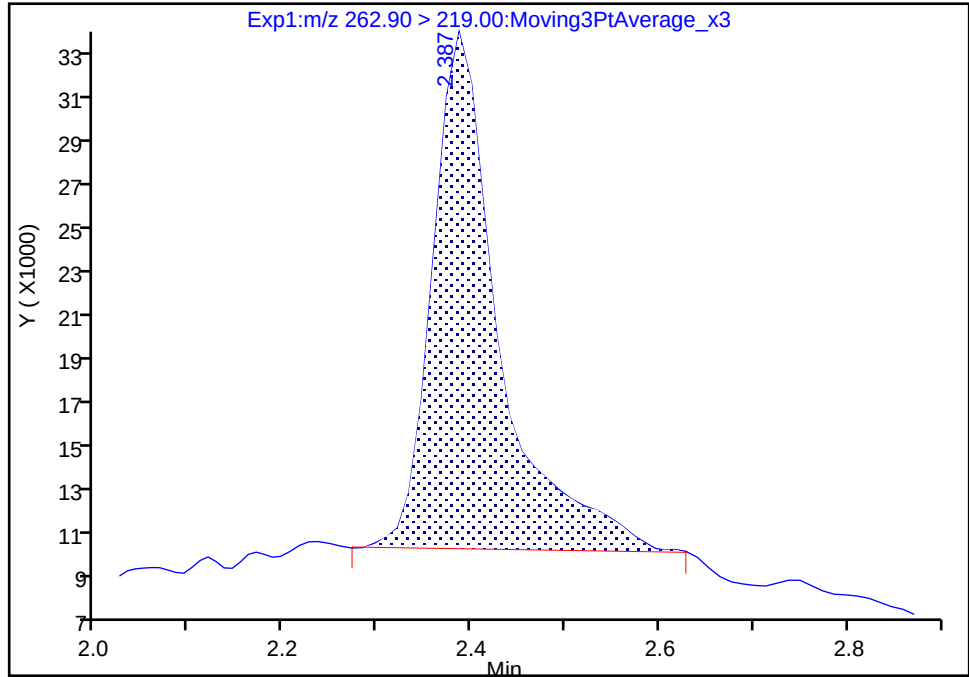
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Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

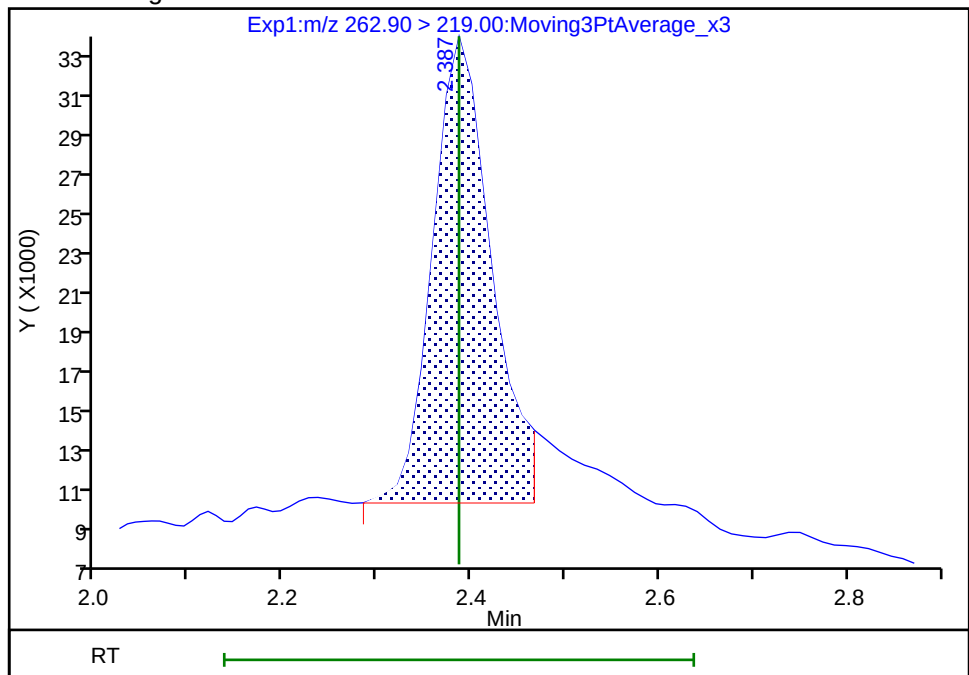
RT: 2.39
Area: 113873
Amount: 0.057933
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 99465
Amount: 0.050603
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:22:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

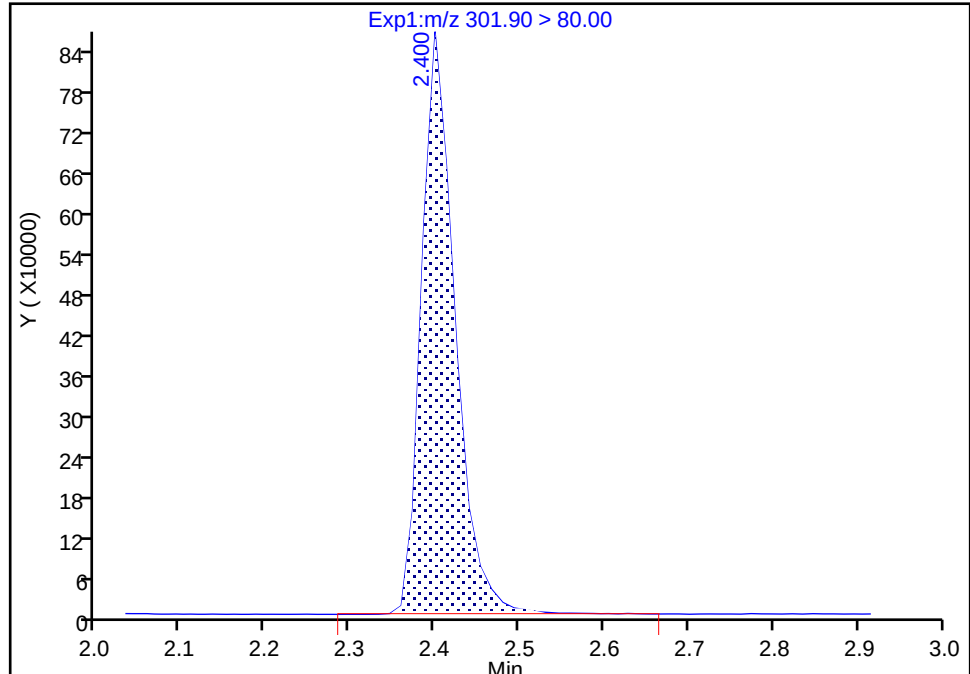
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

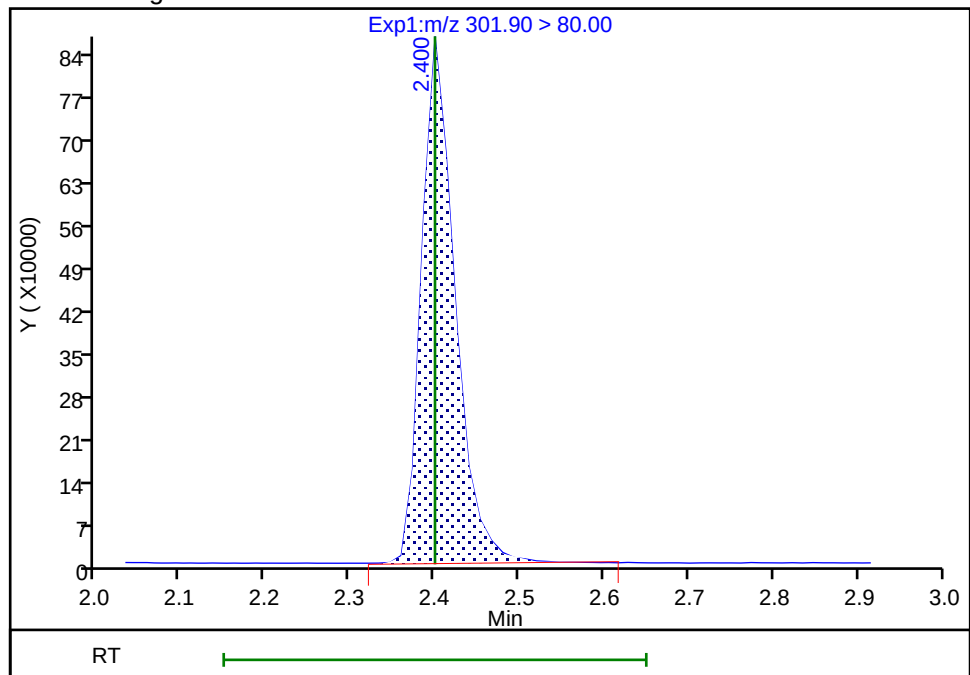
RT: 2.40
Area: 2366482
Amount: 1.142769
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2362793
Amount: 1.140987
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:21:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

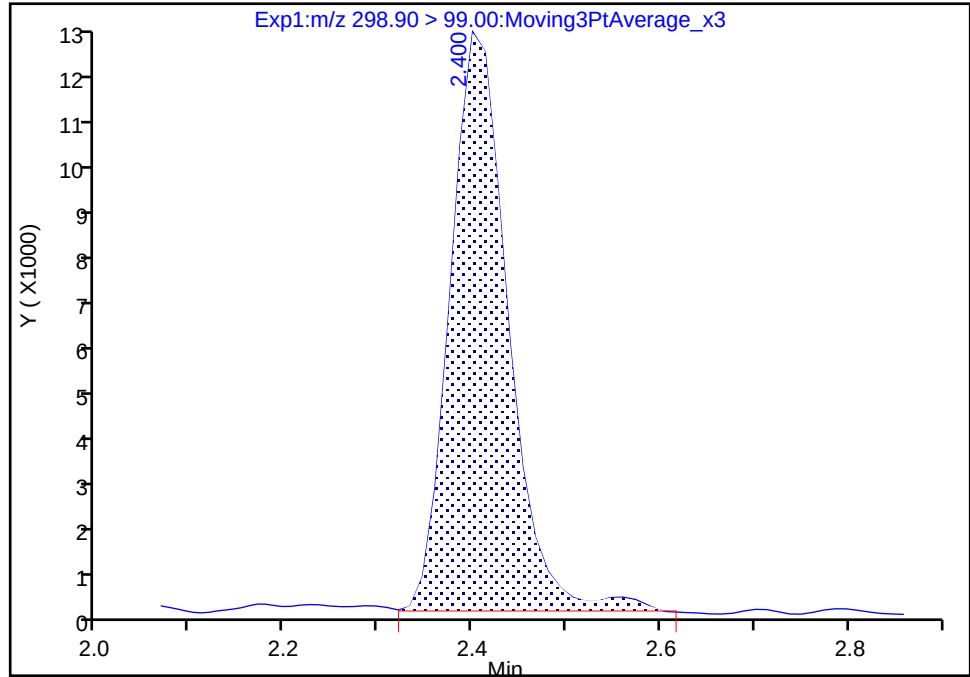
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

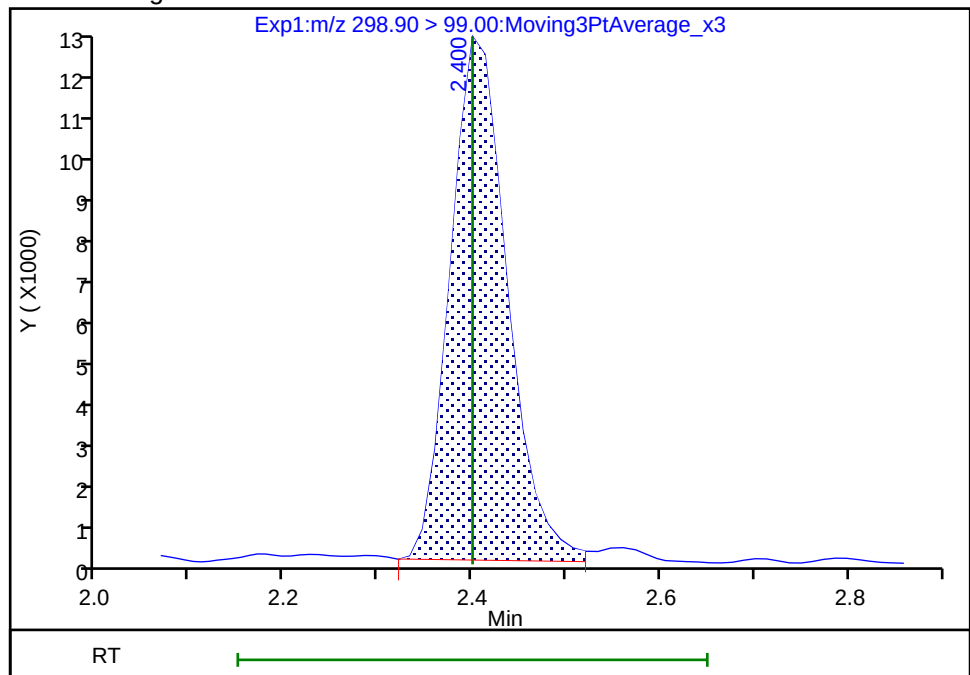
RT: 2.40
Area: 50107
Amount: 0.044616
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 49073
Amount: 0.045019
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:22:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

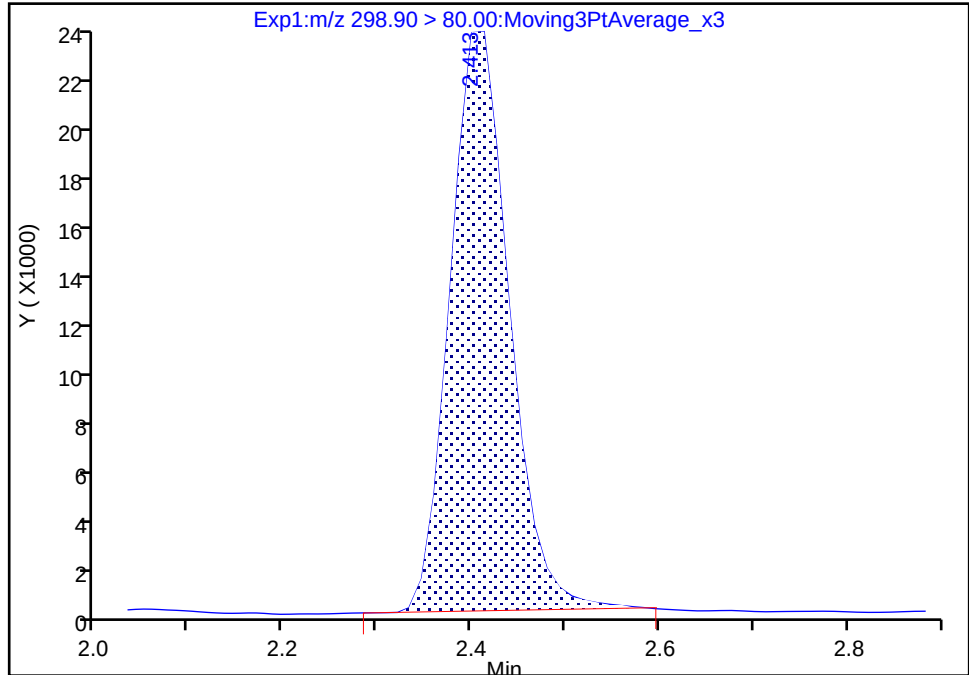
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

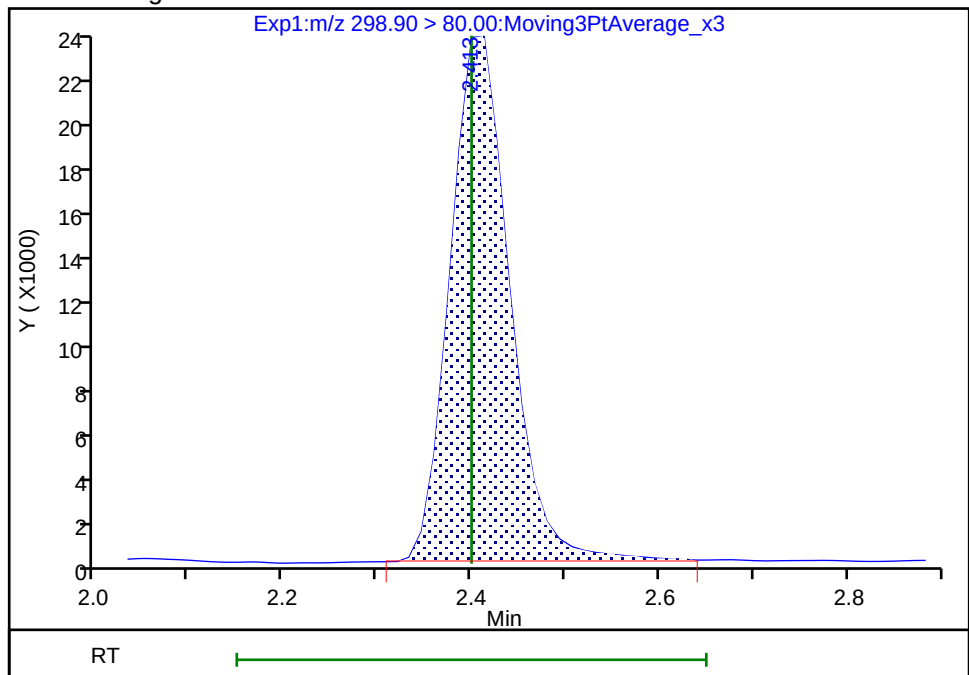
RT: 2.41
Area: 103748
Amount: 0.044616
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 104686
Amount: 0.045019
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:22:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

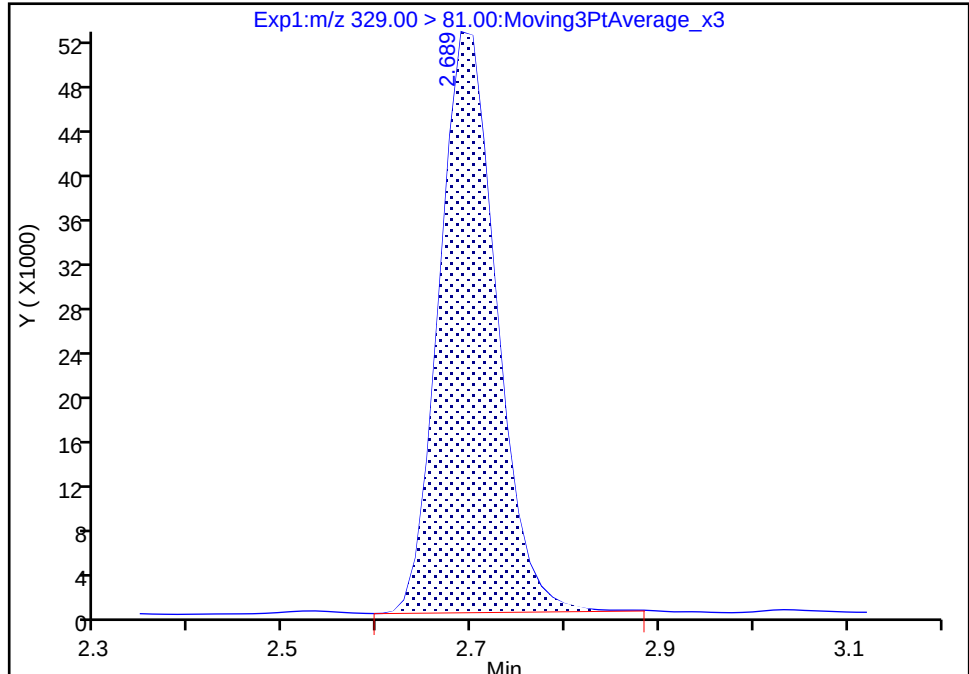
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

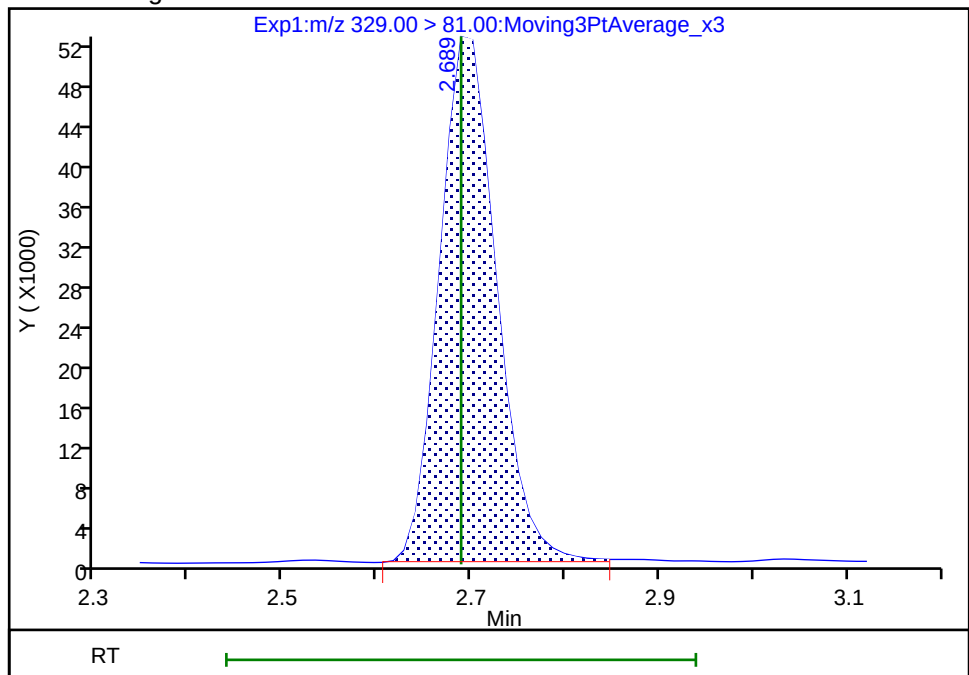
RT: 2.69
Area: 221040
Amount: 1.207980
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 221966
Amount: 1.213041
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:21:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

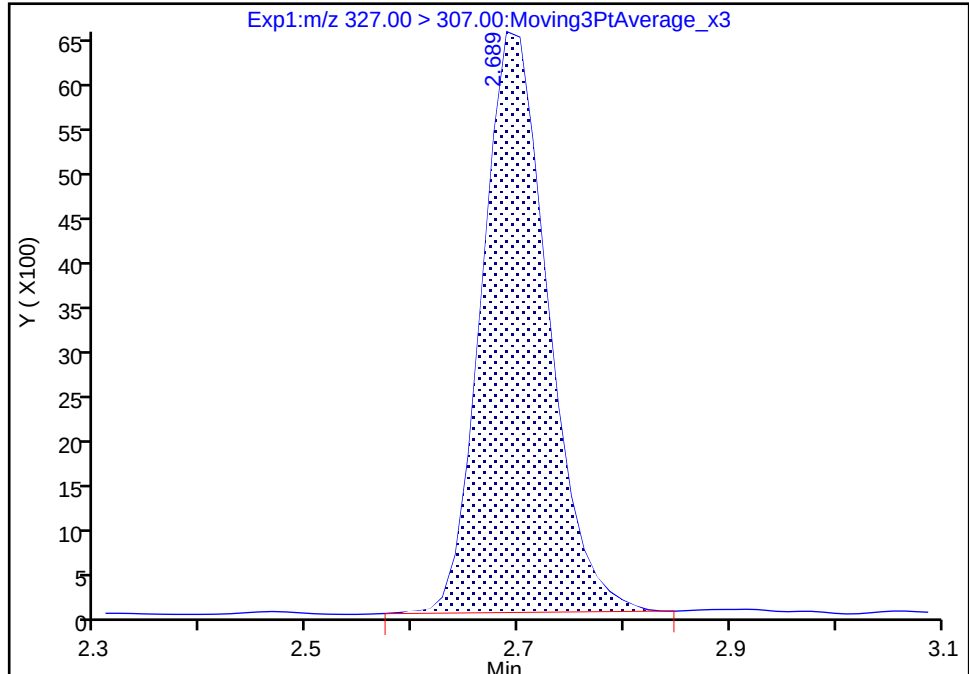
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

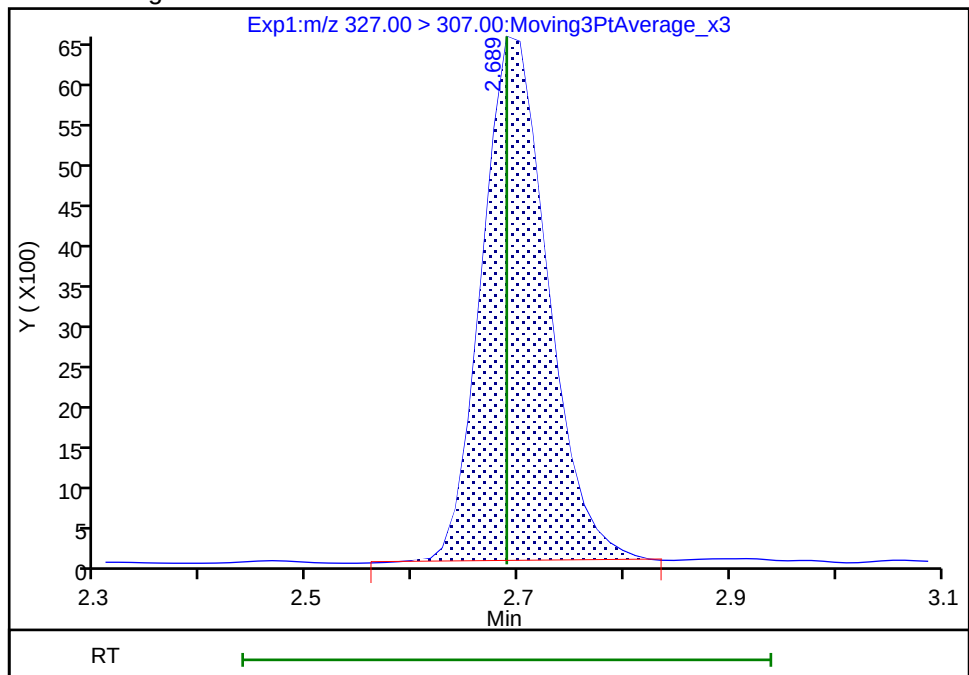
RT: 2.69
Area: 28154
Amount: 0.048067
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 28165
Amount: 0.048086
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

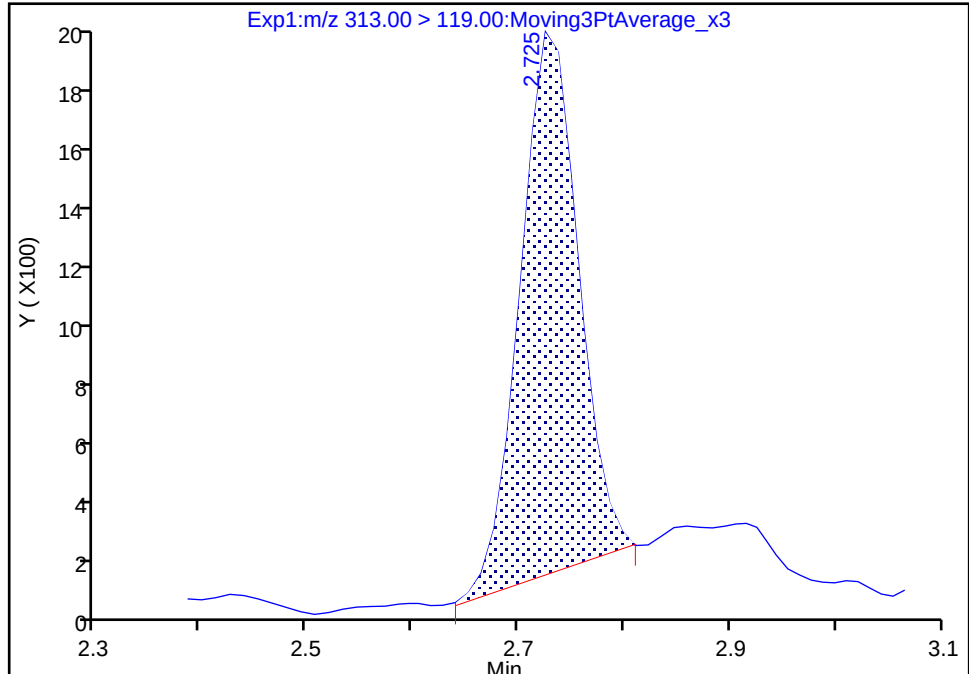
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

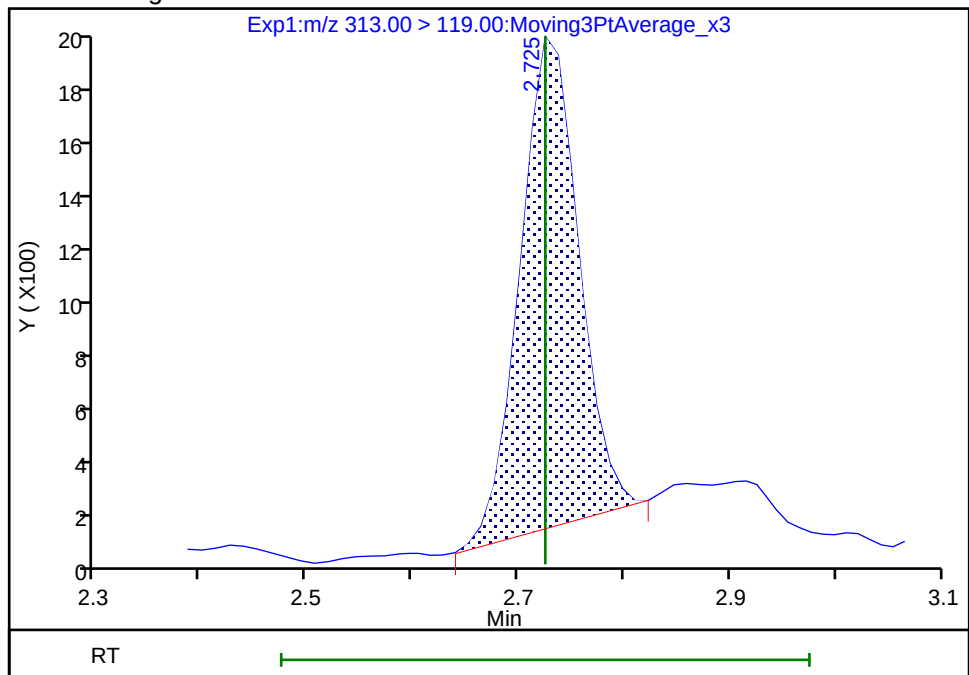
RT: 2.73
Area: 6897
Amount: 0.049576
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 6904
Amount: 0.047626
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

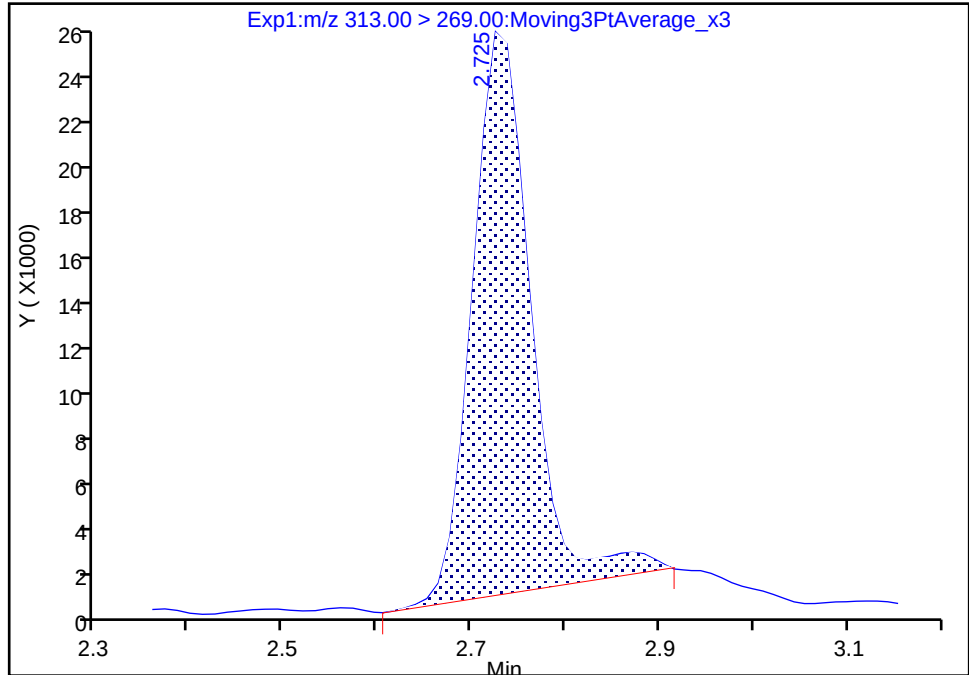
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

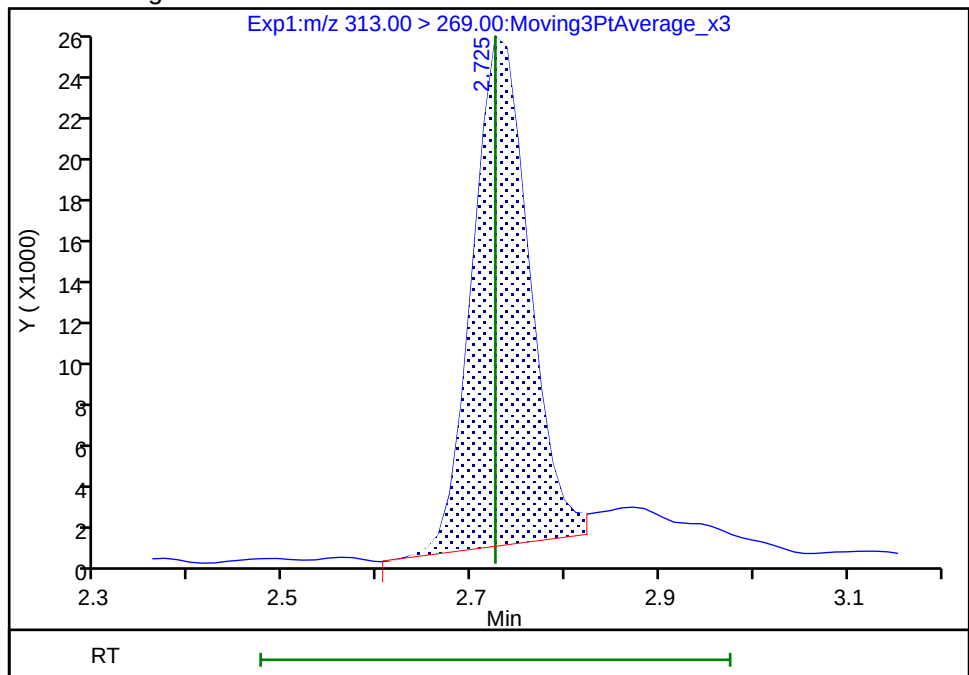
RT: 2.73
Area: 103274
Amount: 0.049576
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 99212
Amount: 0.047626
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

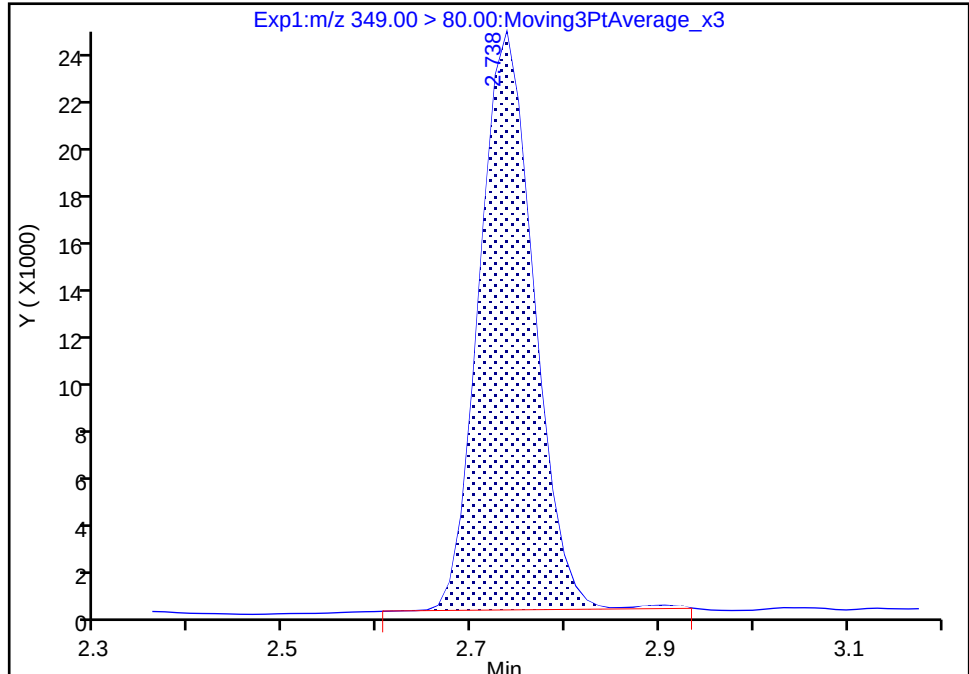
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d		
Injection Date:	05-Jan-2023 15:22:07	Instrument ID:	LC812
Lims ID:	CCVLIS		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	5

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

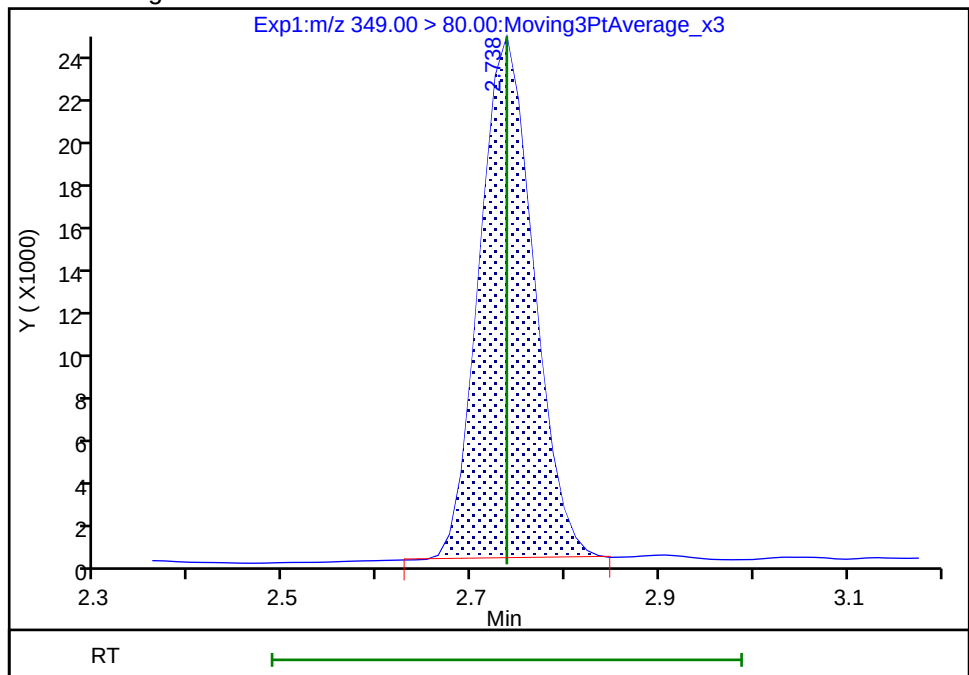
RT: 2.74
Area: 98378
Amount: 0.048594
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 97584
Amount: 0.048202
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

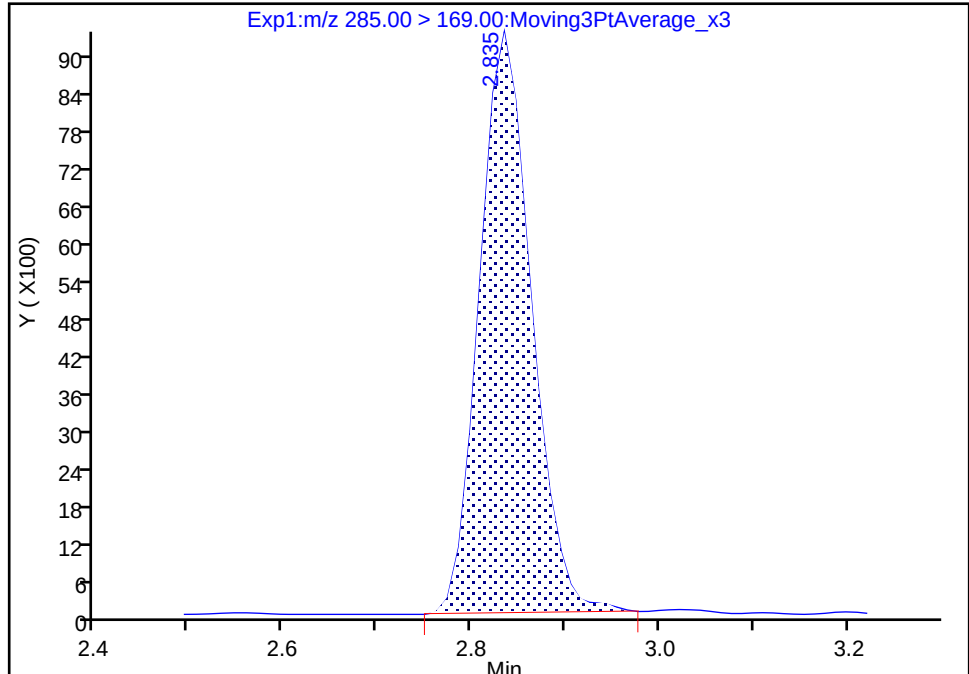
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

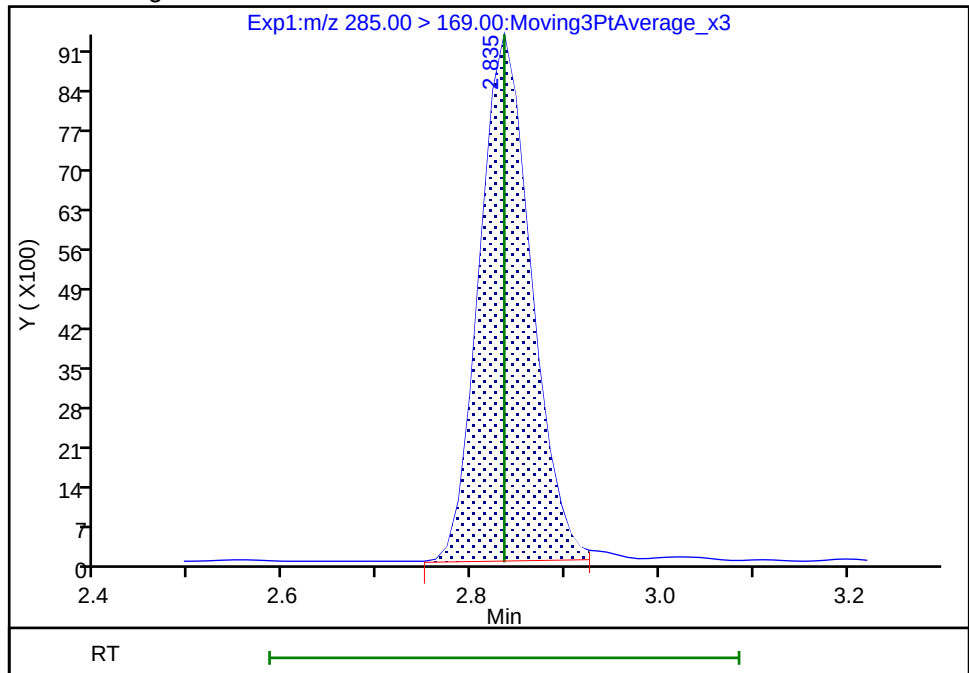
RT: 2.83
Area: 36092
Amount: 0.096809
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 35827
Amount: 0.096098
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

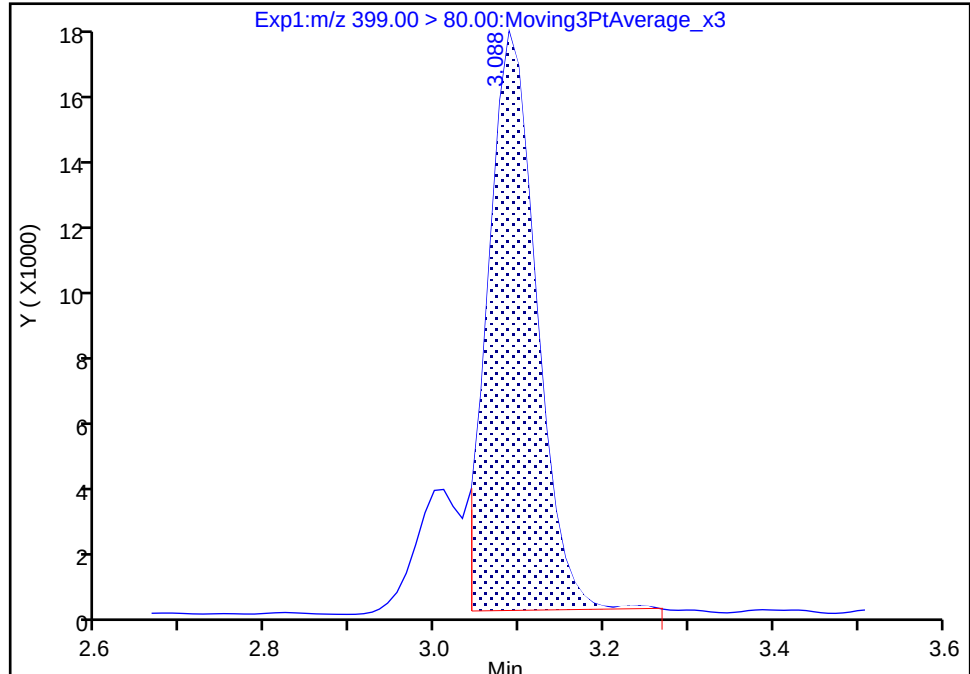
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

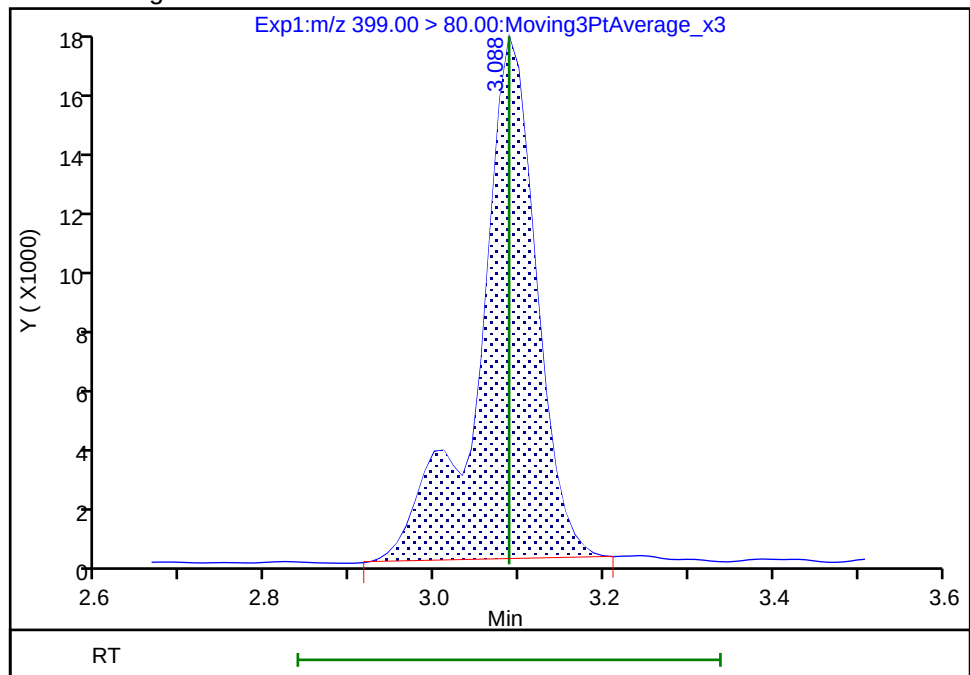
RT: 3.09
Area: 70195
Amount: 0.041025
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 84457
Amount: 0.049361
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

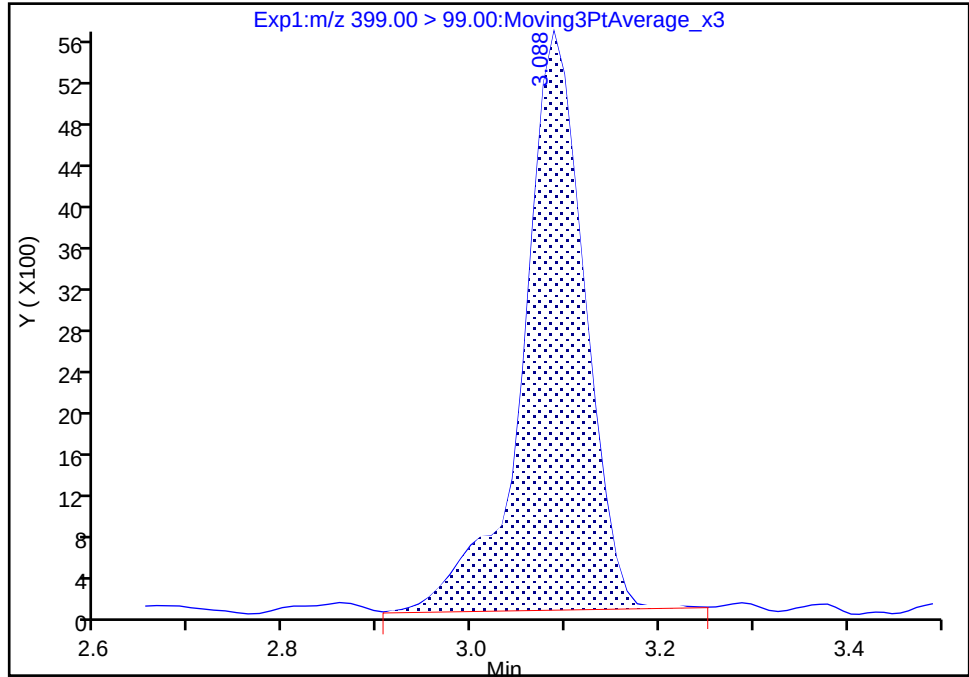
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

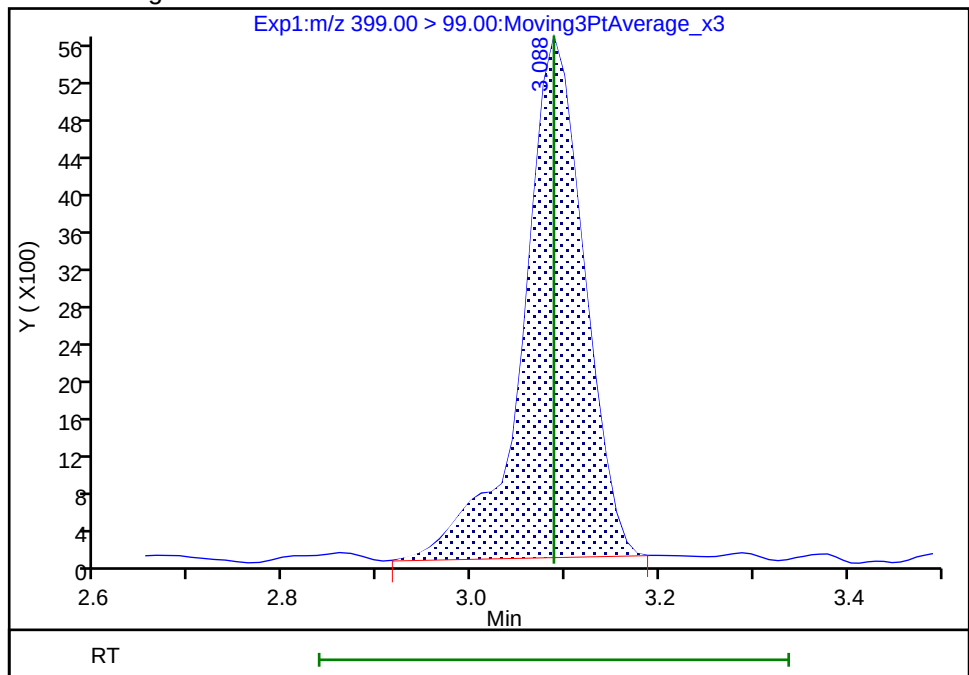
RT: 3.09
Area: 25421
Amount: 0.041025
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 25130
Amount: 0.049361
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

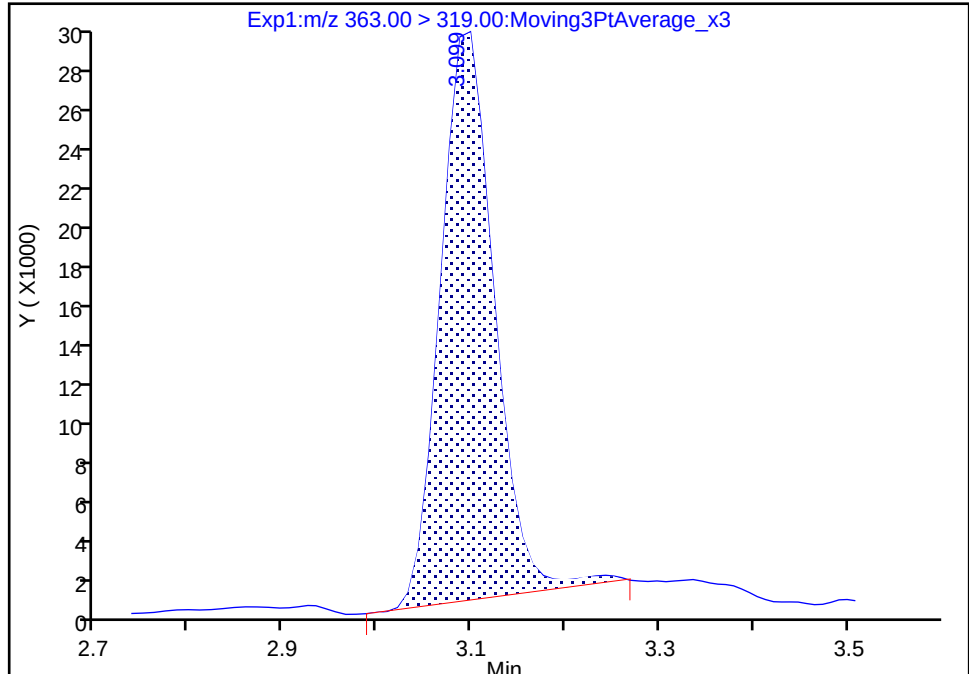
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

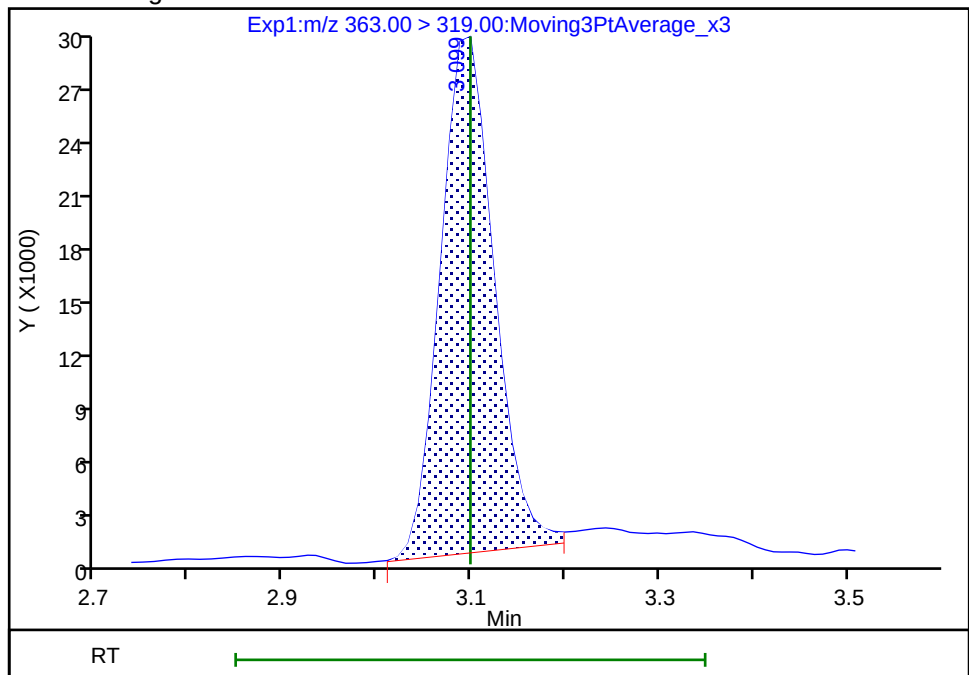
RT: 3.10
Area: 112814
Amount: 0.052288
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 111898
Amount: 0.051863
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:23:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

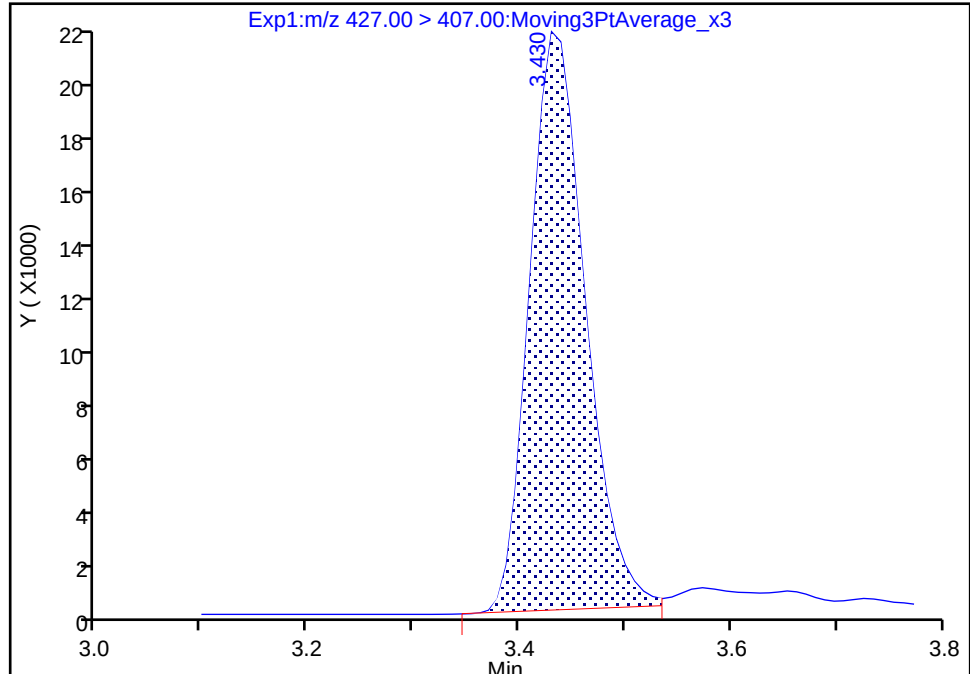
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

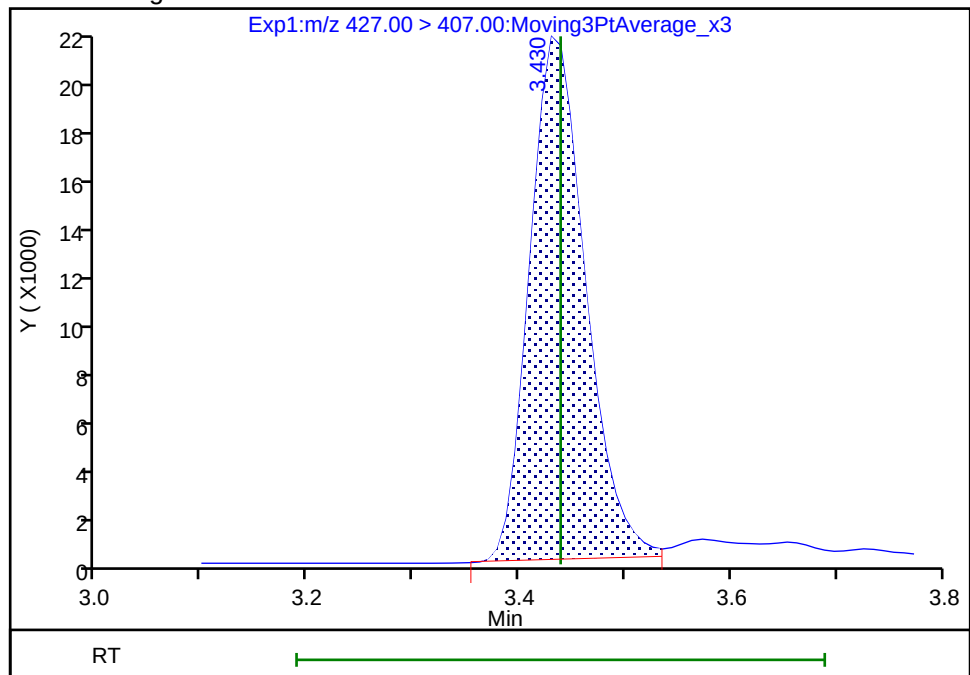
RT: 3.43
Area: 79237
Amount: 0.122916
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 79204
Amount: 0.122860
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:24:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

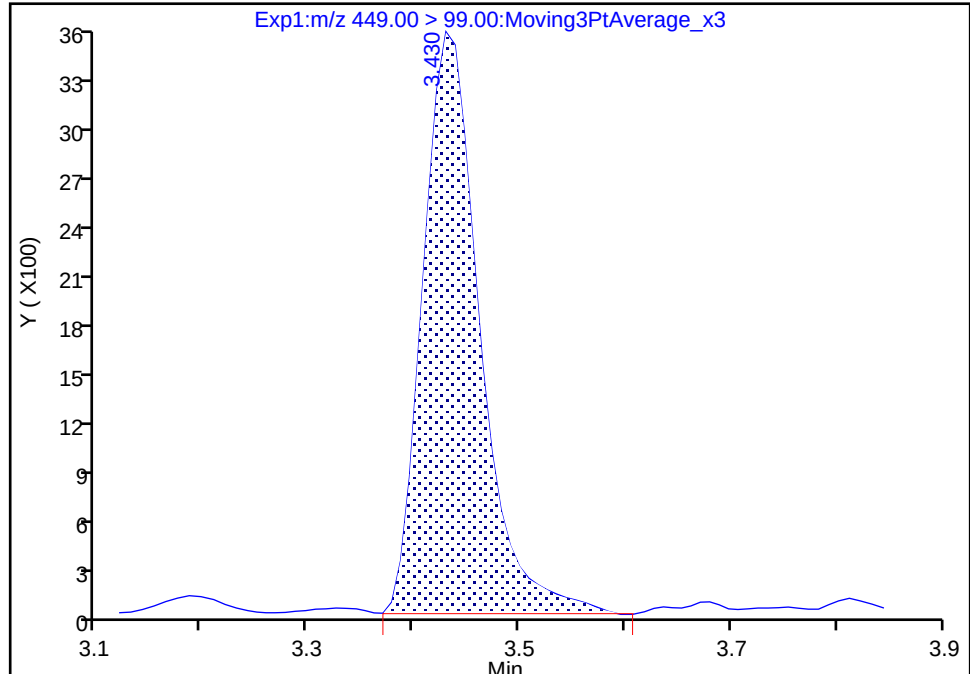
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

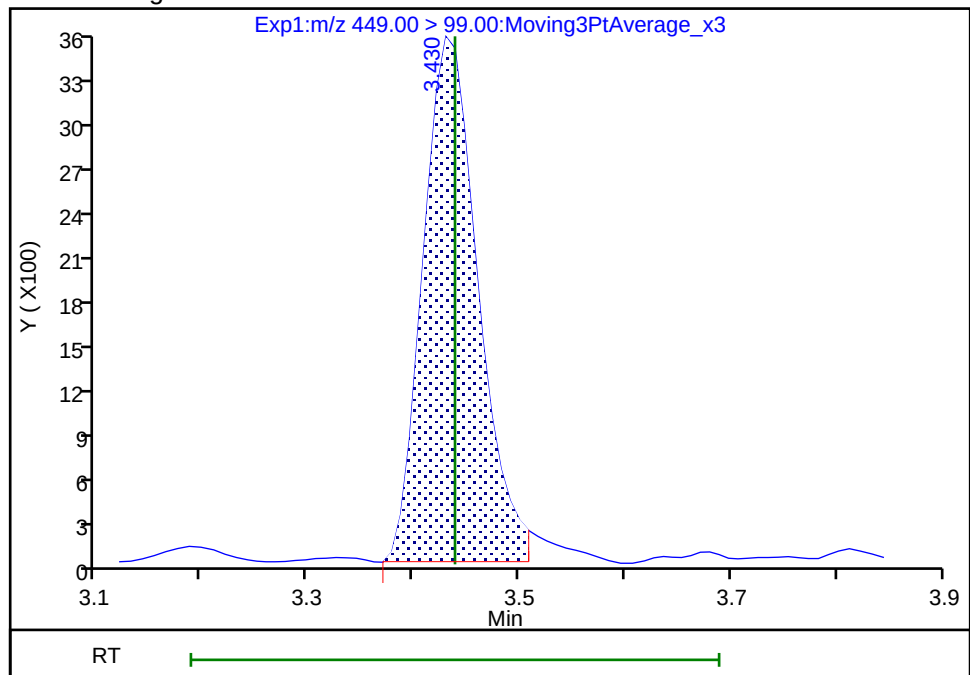
RT: 3.43
Area: 13413
Amount: 0.050380
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 12930
Amount: 0.049637
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 08:12:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

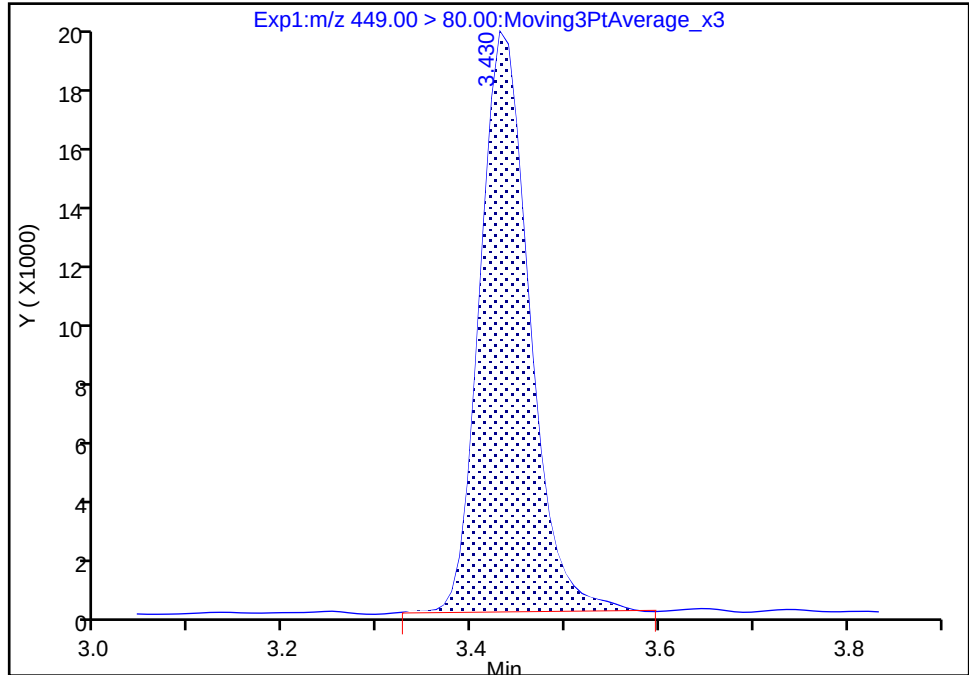
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

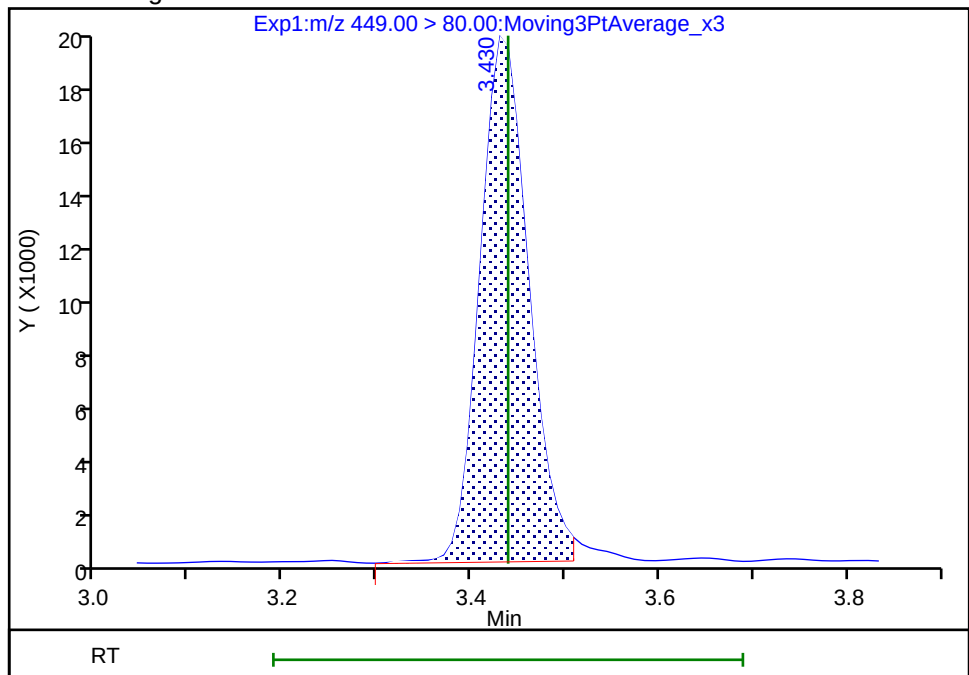
RT: 3.43
Area: 70585
Amount: 0.050380
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 69544
Amount: 0.049637
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 08:12:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

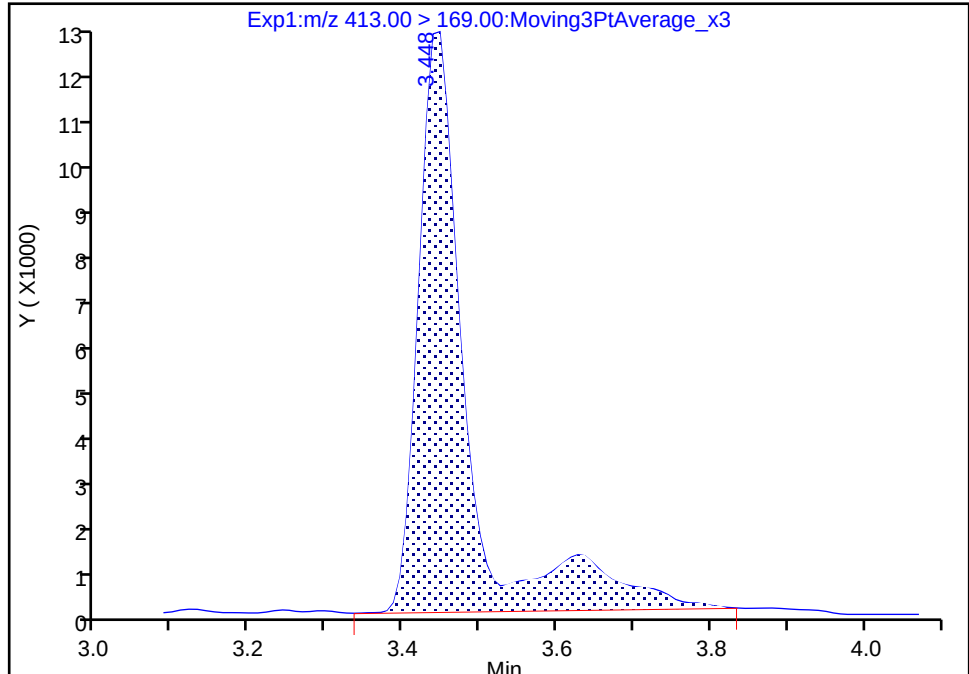
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

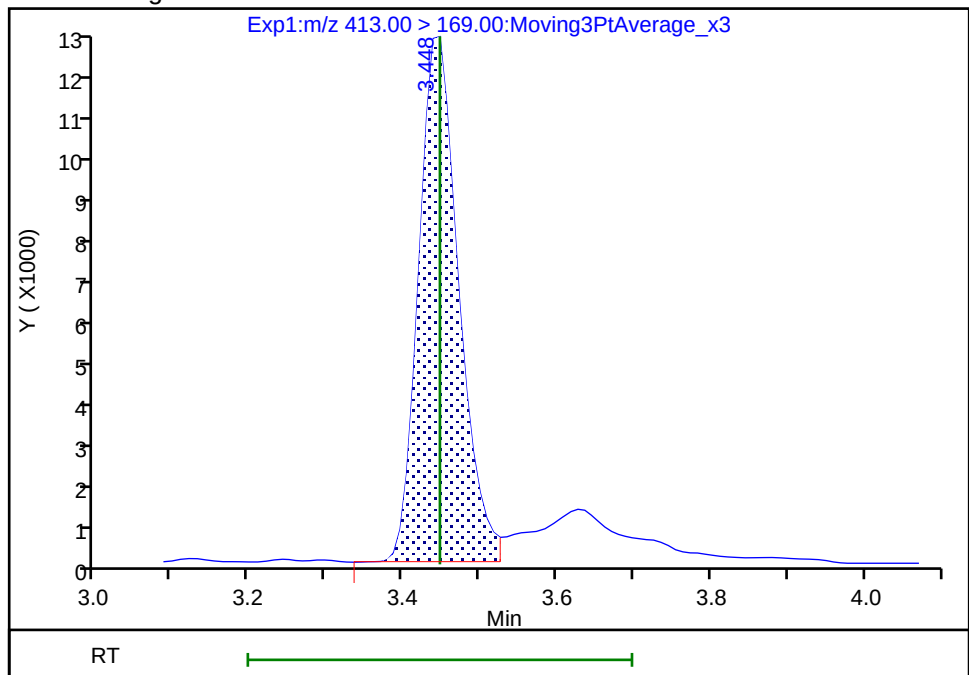
RT: 3.45
Area: 54346
Amount: 0.047175
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 44504
Amount: 0.047175
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:24:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

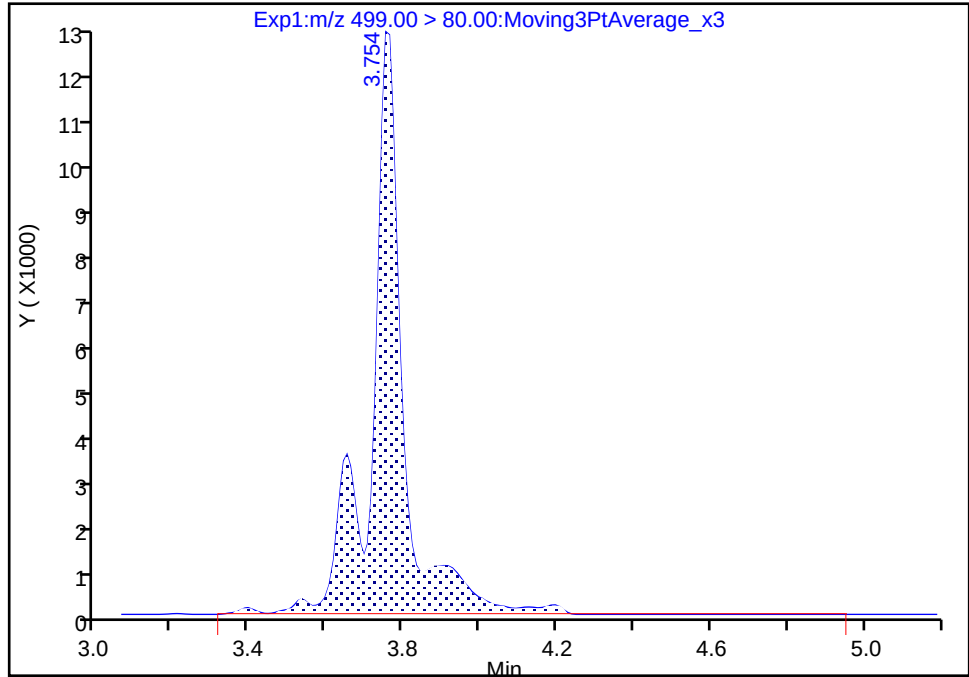
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

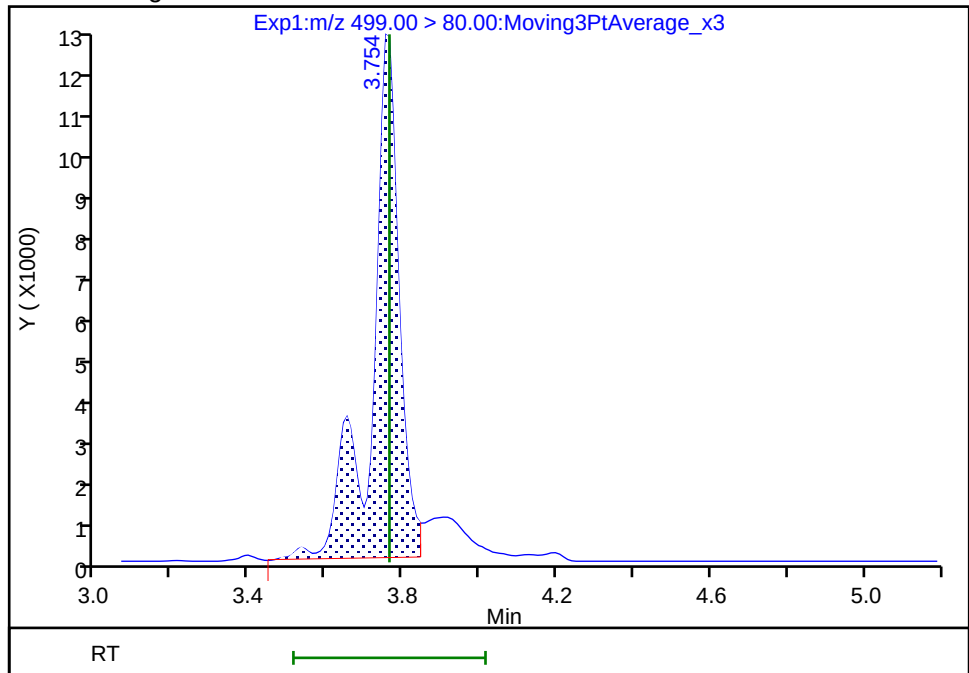
RT: 3.75
Area: 71108
Amount: 0.058289
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 59602
Amount: 0.048858
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:24:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

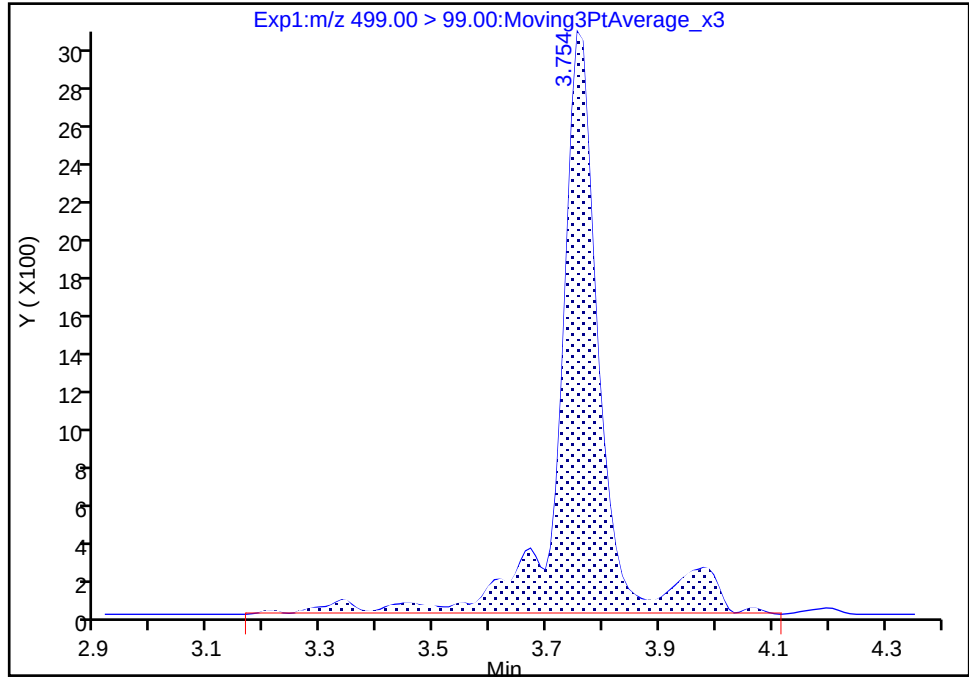
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

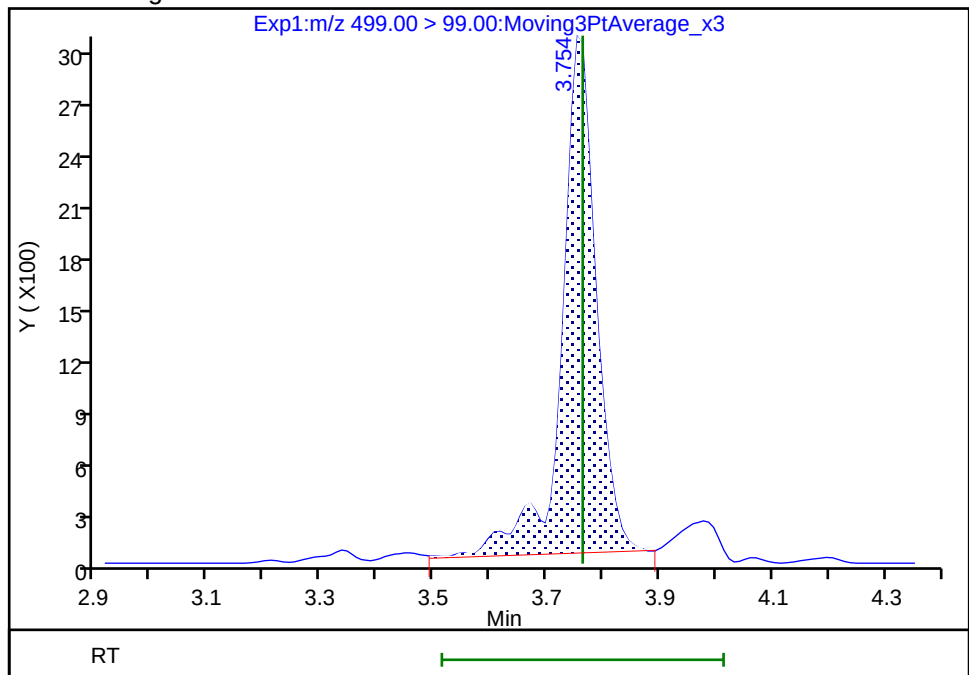
RT: 3.75
Area: 15785
Amount: 0.058289
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 12640
Amount: 0.048858
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:24:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

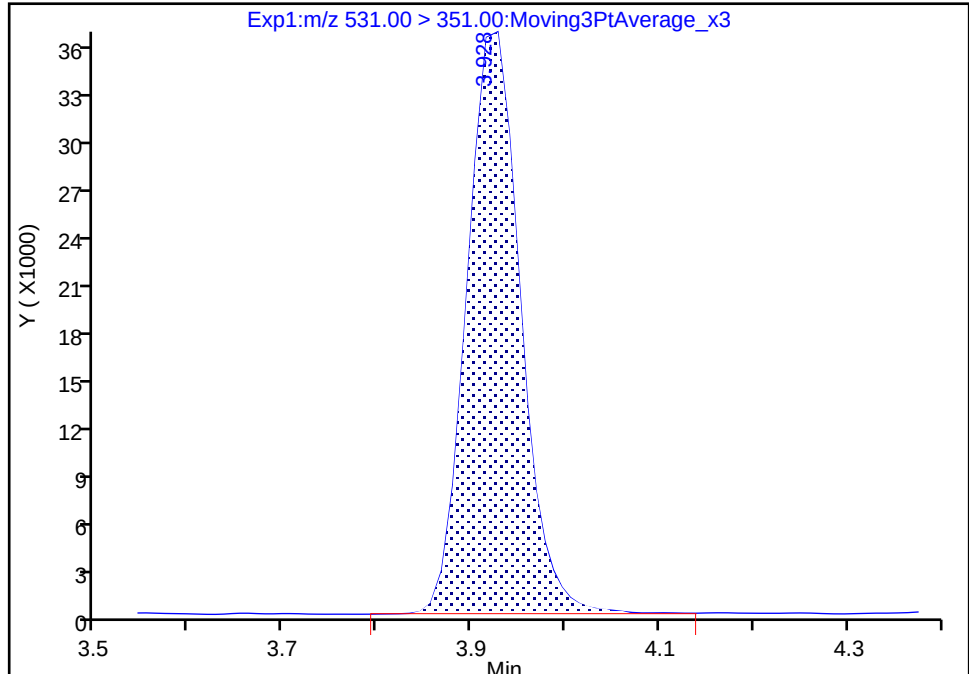
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

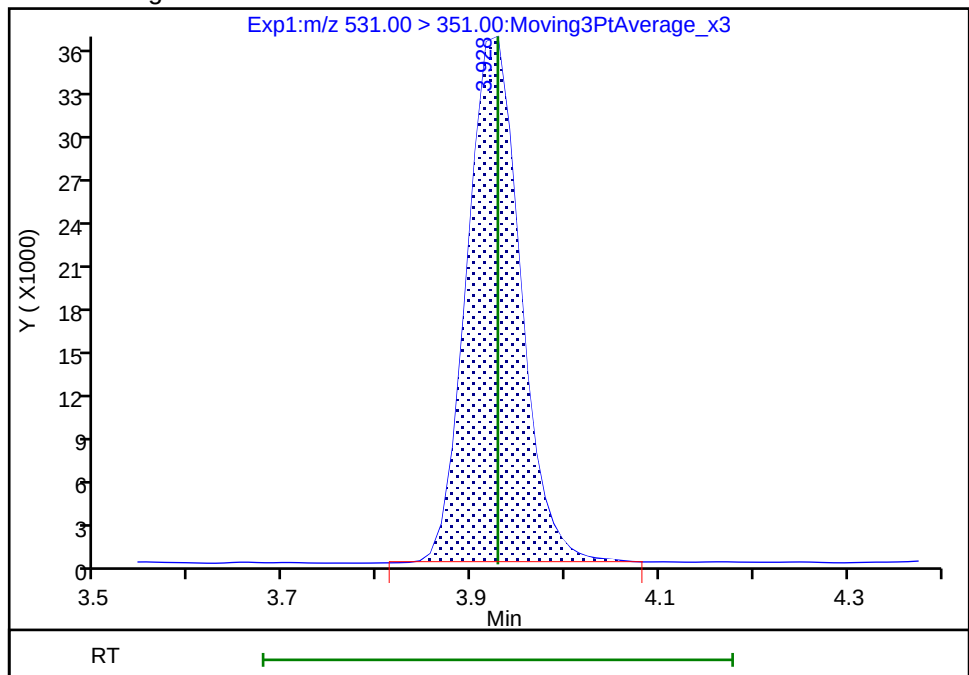
RT: 3.93
Area: 143107
Amount: 0.051113
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 142695
Amount: 0.050966
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:24:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d

Injection Date: 05-Jan-2023 15:22:07

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

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

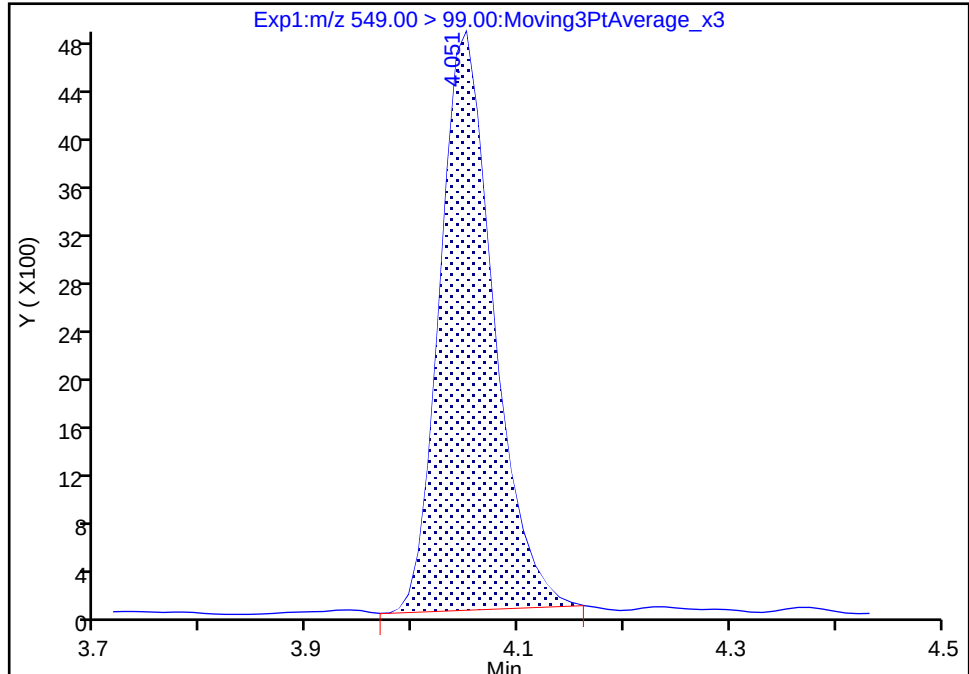
EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

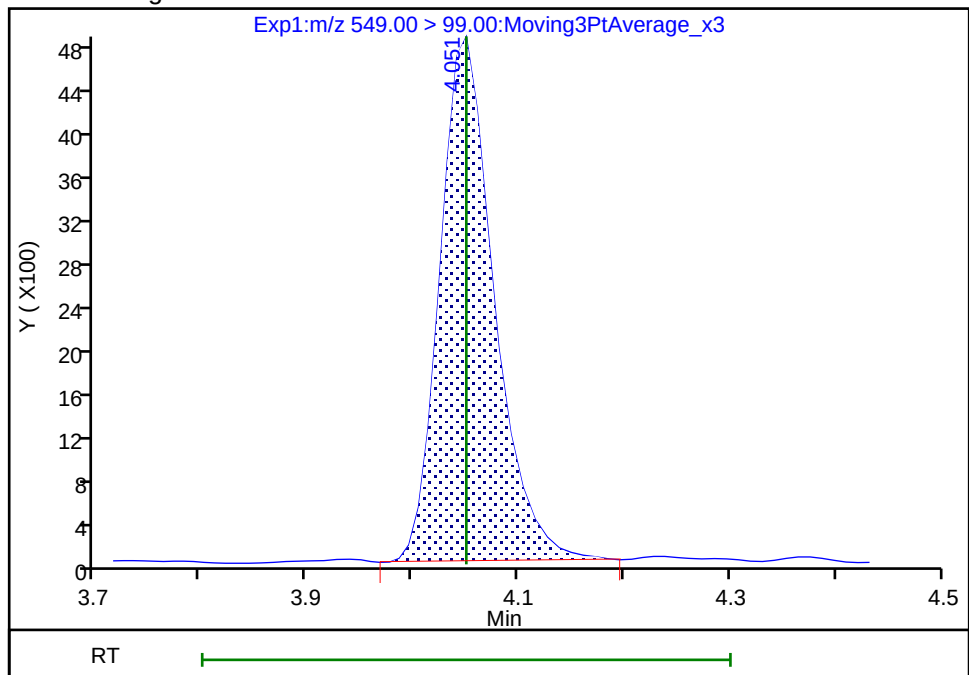
RT: 4.05
Area: 16979
Amount: 0.049144
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 17287
Amount: 0.049144
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:25:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

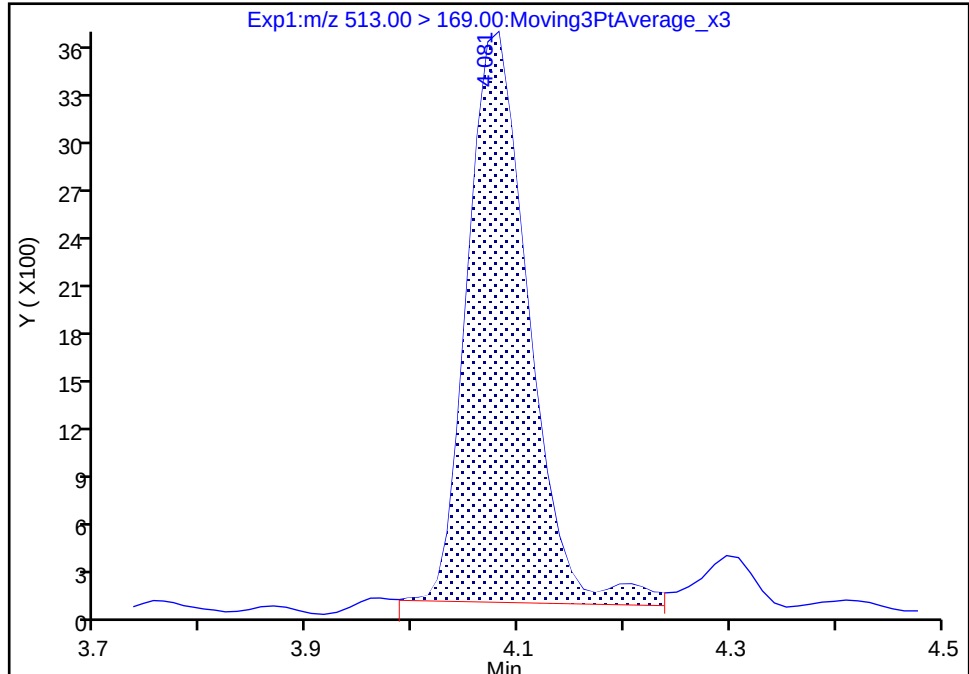
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

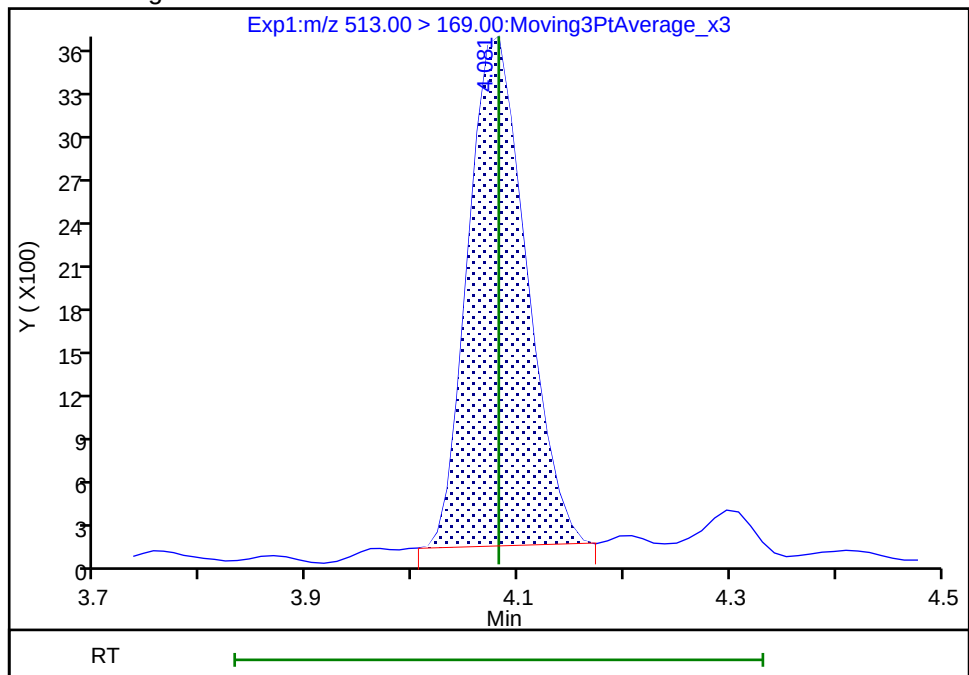
RT: 4.08
Area: 14376
Amount: 0.049579
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 13561
Amount: 0.048672
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:25:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

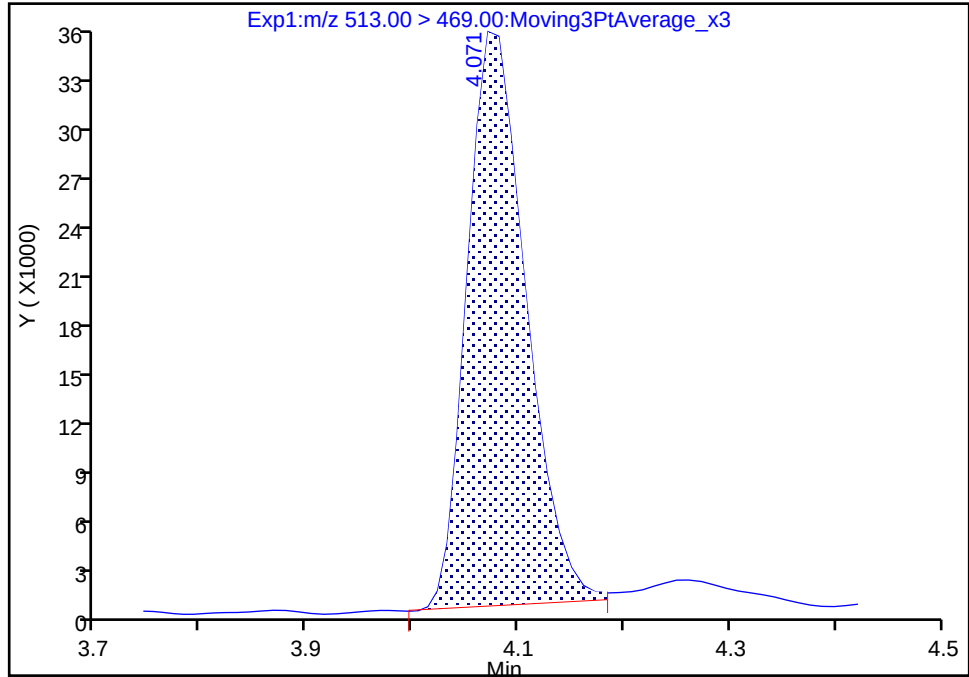
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

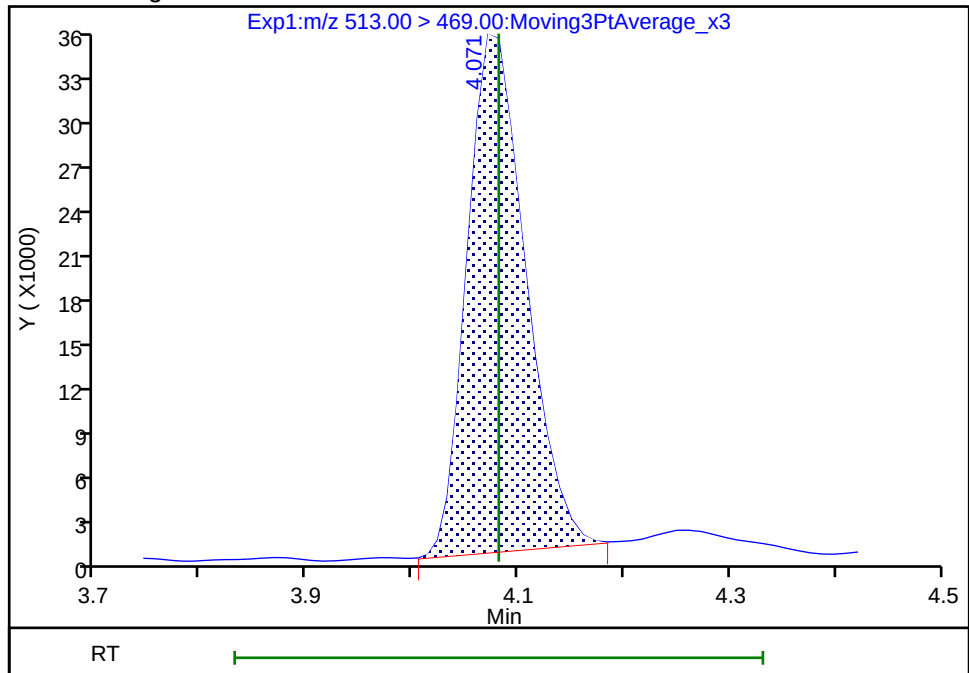
RT: 4.07
Area: 135346
Amount: 0.049579
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 132871
Amount: 0.048672
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:25:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

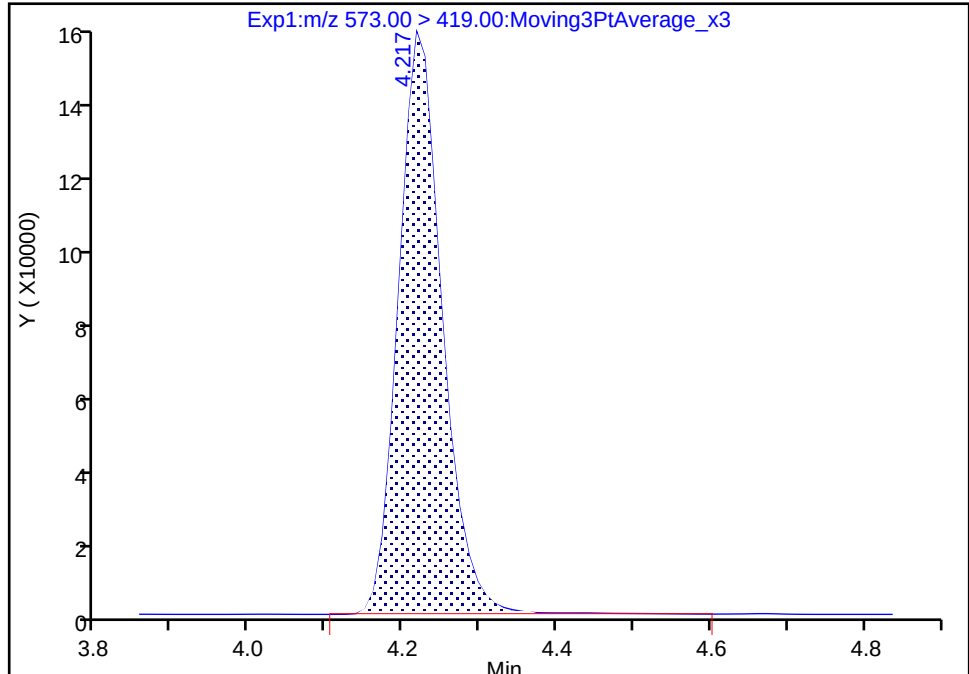
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

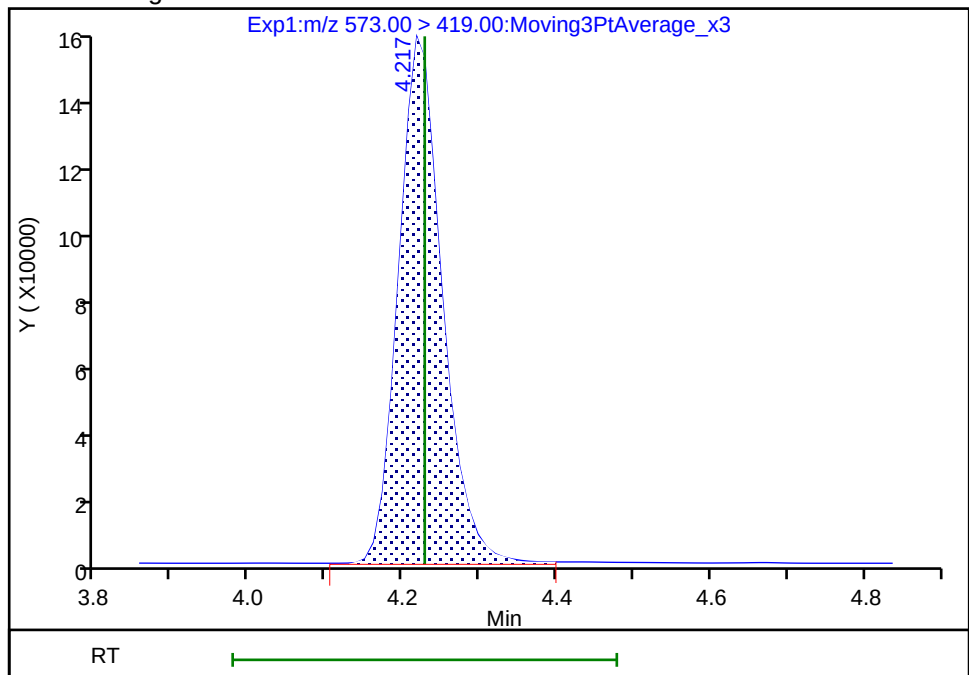
RT: 4.22
Area: 602851
Amount: 1.294729
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 600639
Amount: 1.289978
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:21:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

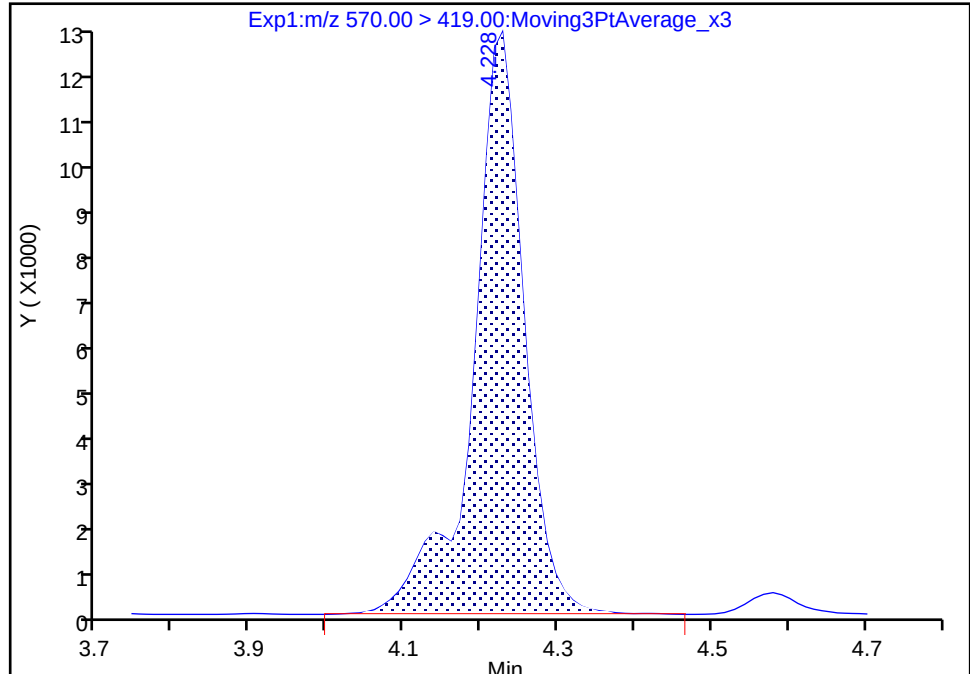
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

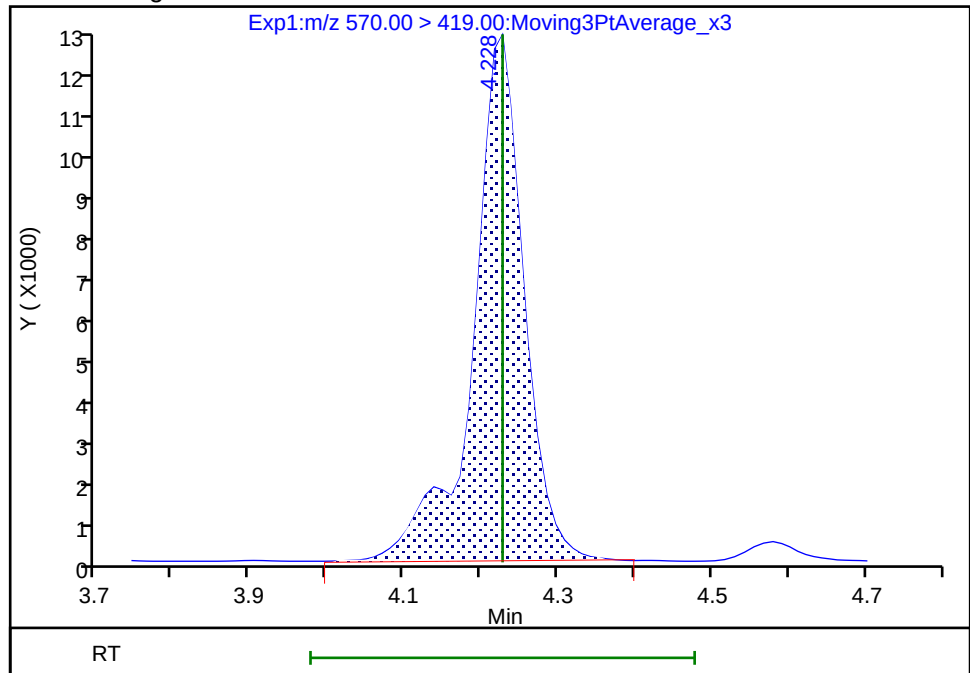
RT: 4.23
Area: 56475
Amount: 0.124998
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 56233
Amount: 0.124413
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:25:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

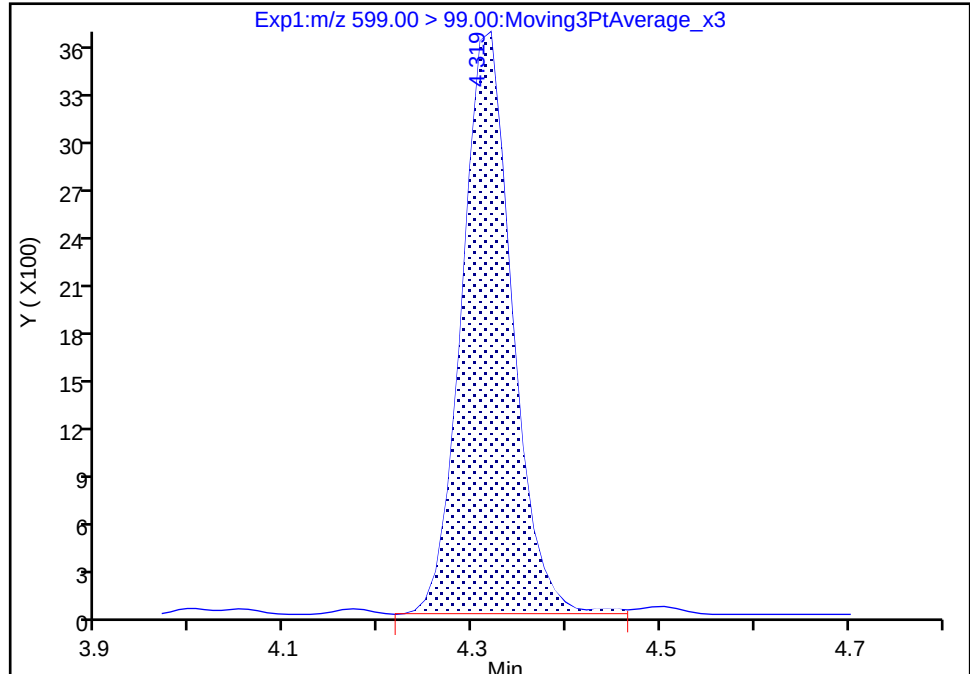
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

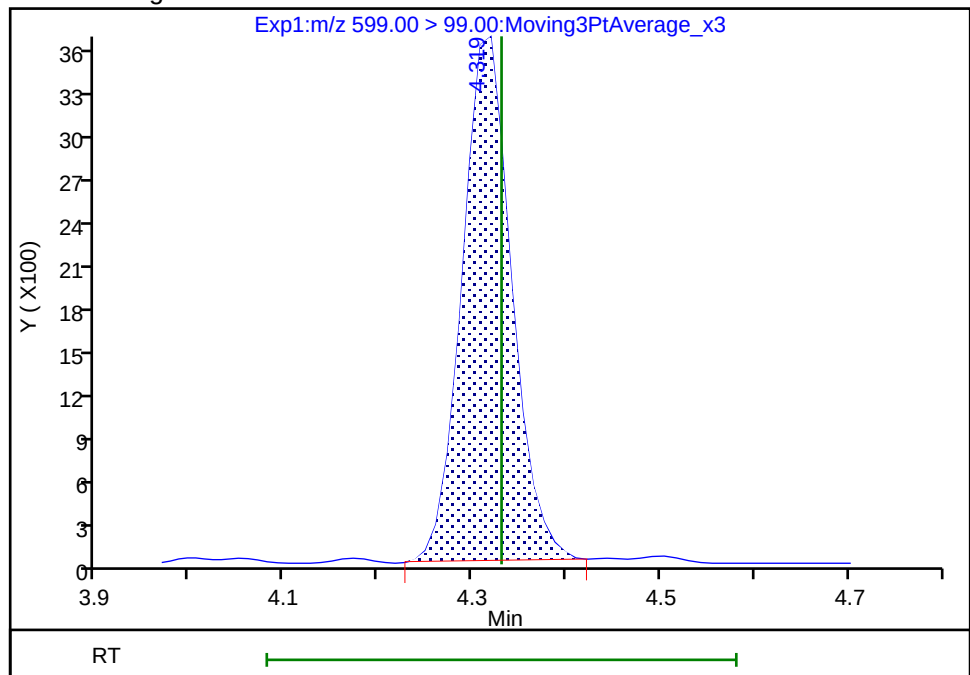
RT: 4.32
Area: 13691
Amount: 0.046942
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 13414
Amount: 0.045544
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:25:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

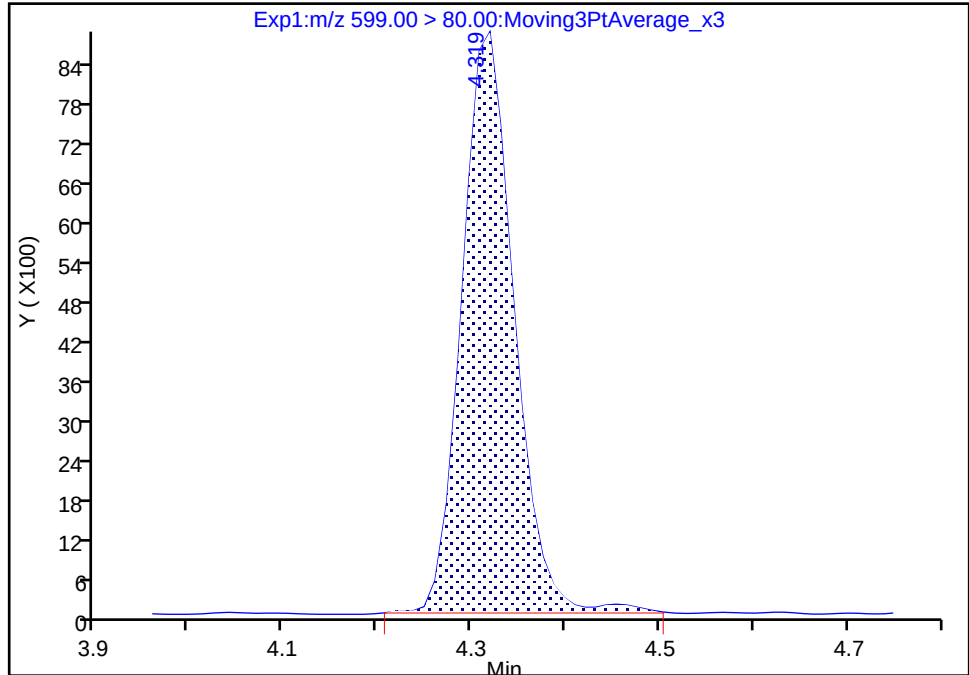
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

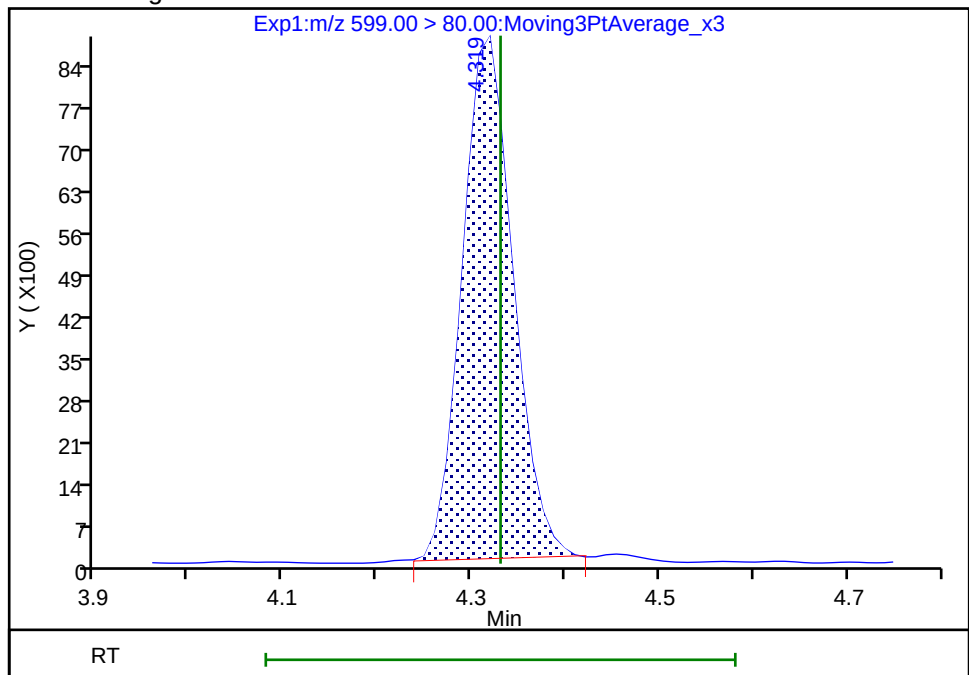
RT: 4.32
Area: 34128
Amount: 0.046942
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 33111
Amount: 0.045544
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:25:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

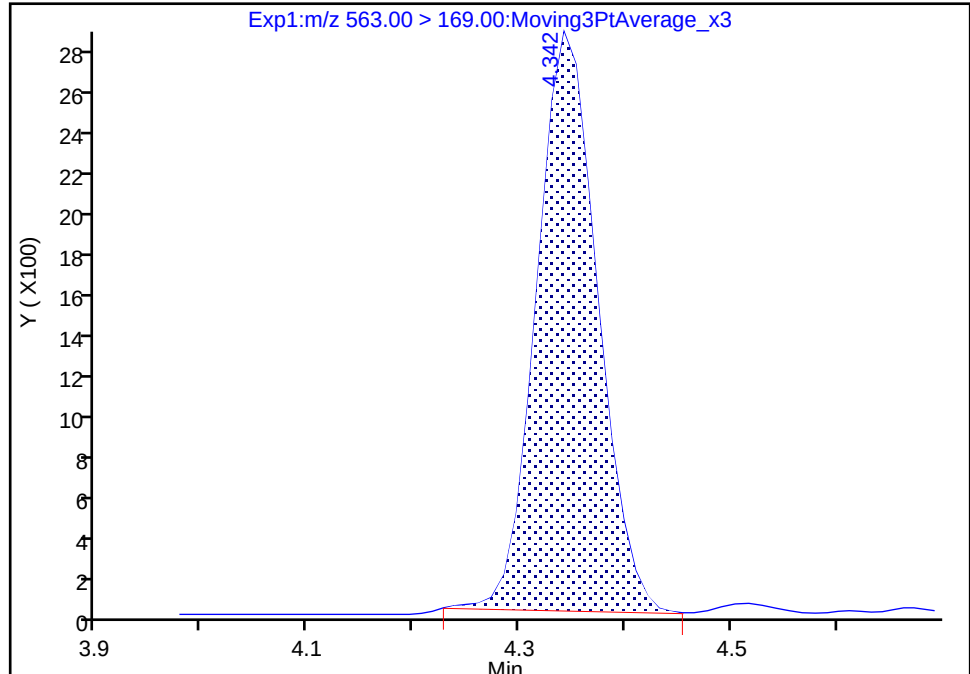
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

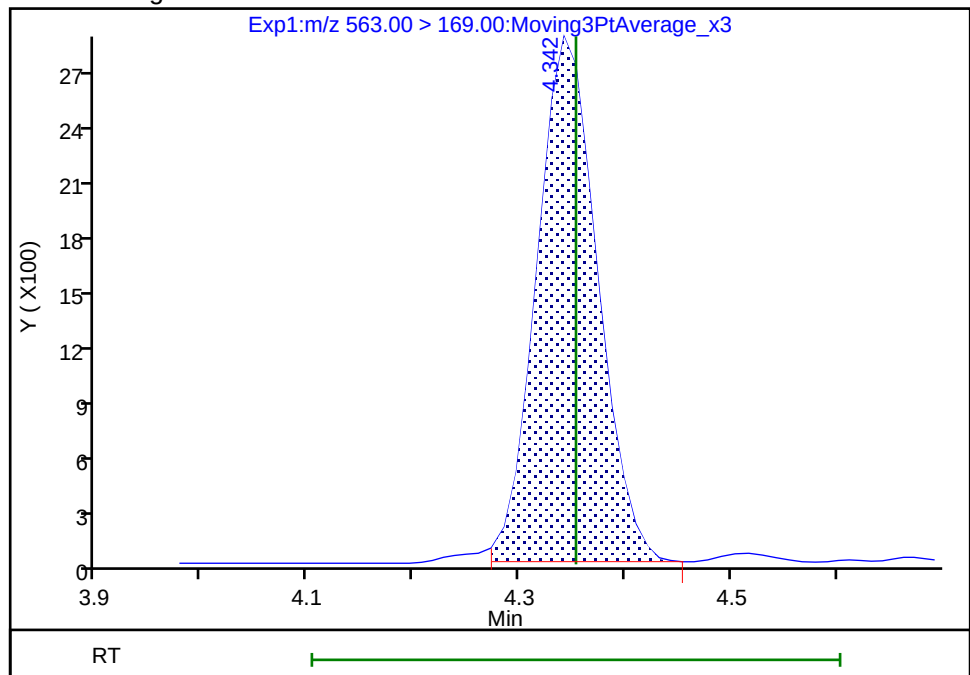
RT: 4.34
Area: 11323
Amount: 0.050321
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 11400
Amount: 0.050321
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 08:13:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

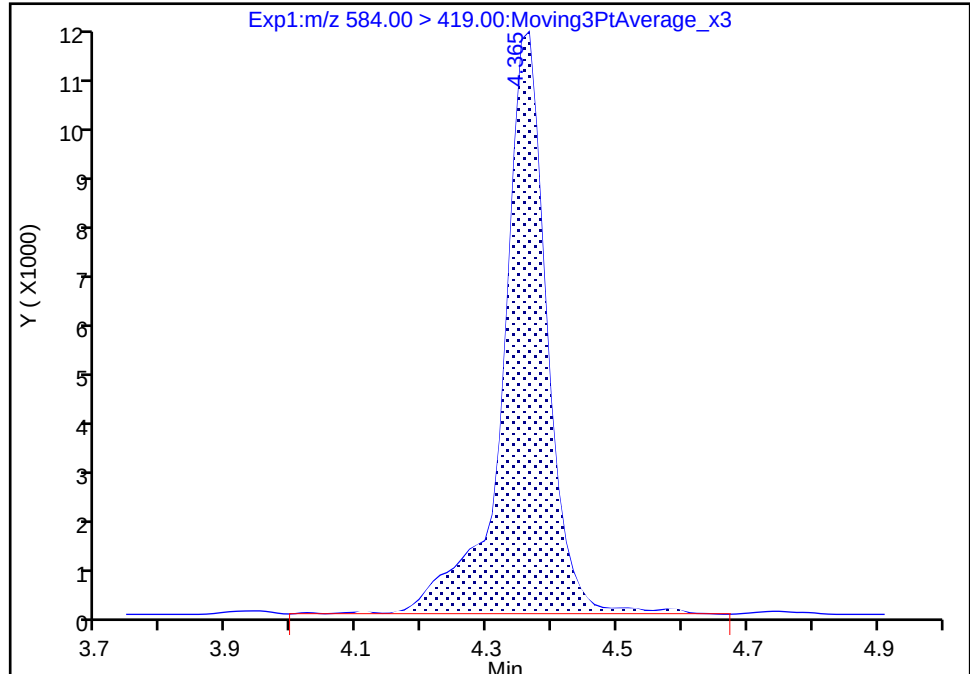
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

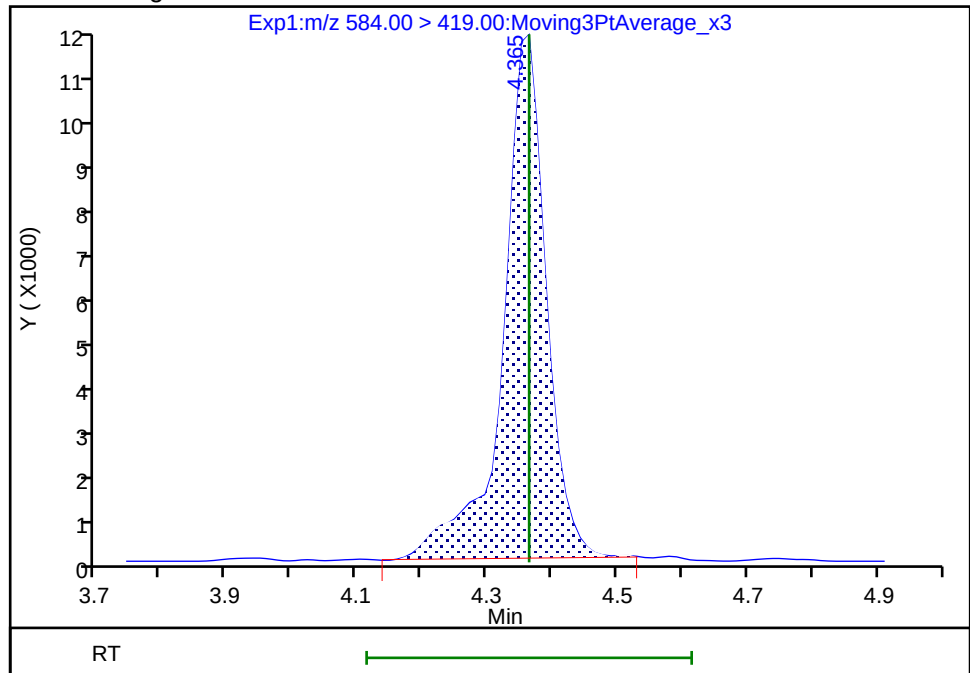
RT: 4.36
Area: 55474
Amount: 0.132302
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 53257
Amount: 0.127015
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 08:13:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

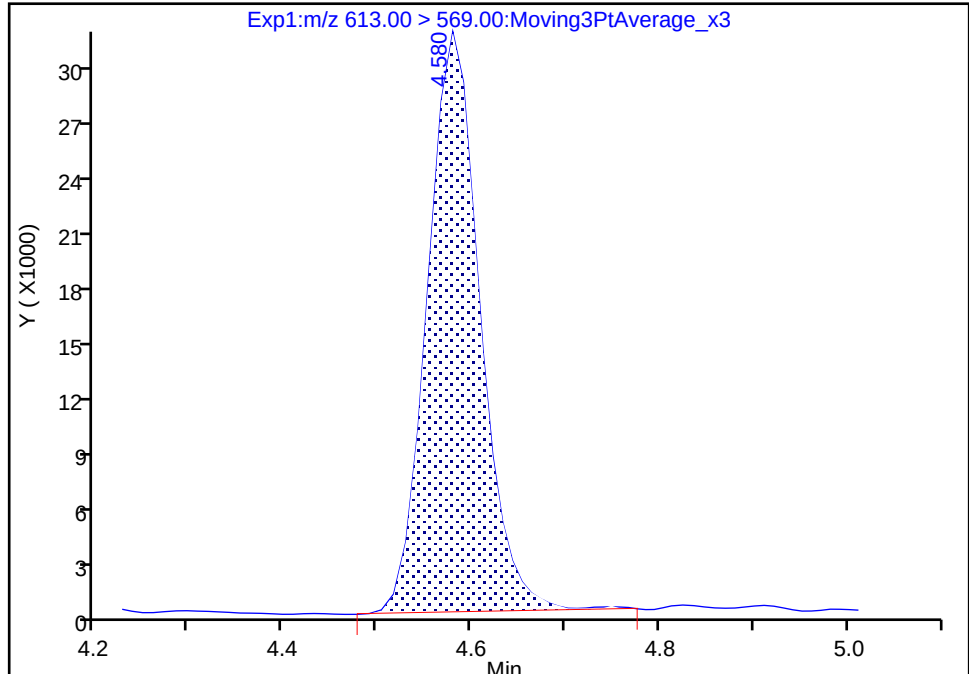
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

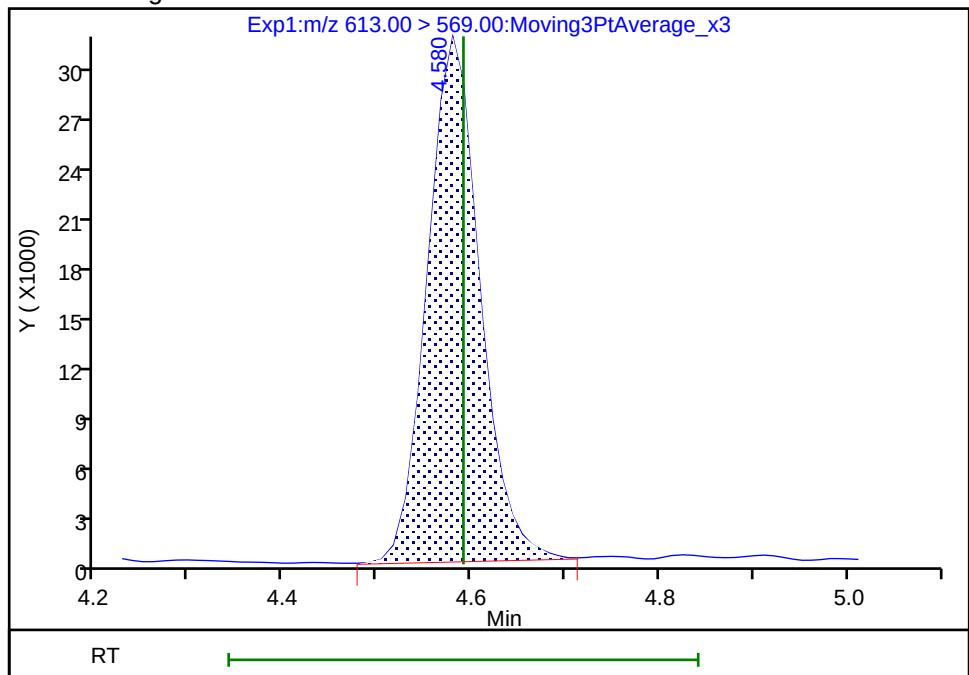
RT: 4.58
Area: 120190
Amount: 0.049475
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 119180
Amount: 0.049059
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:26:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

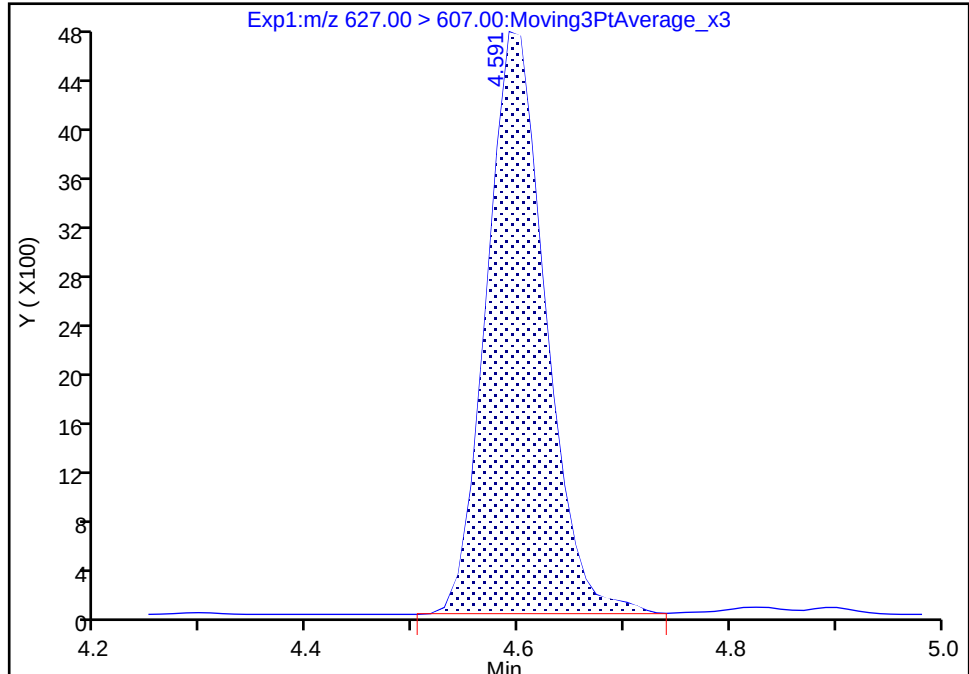
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

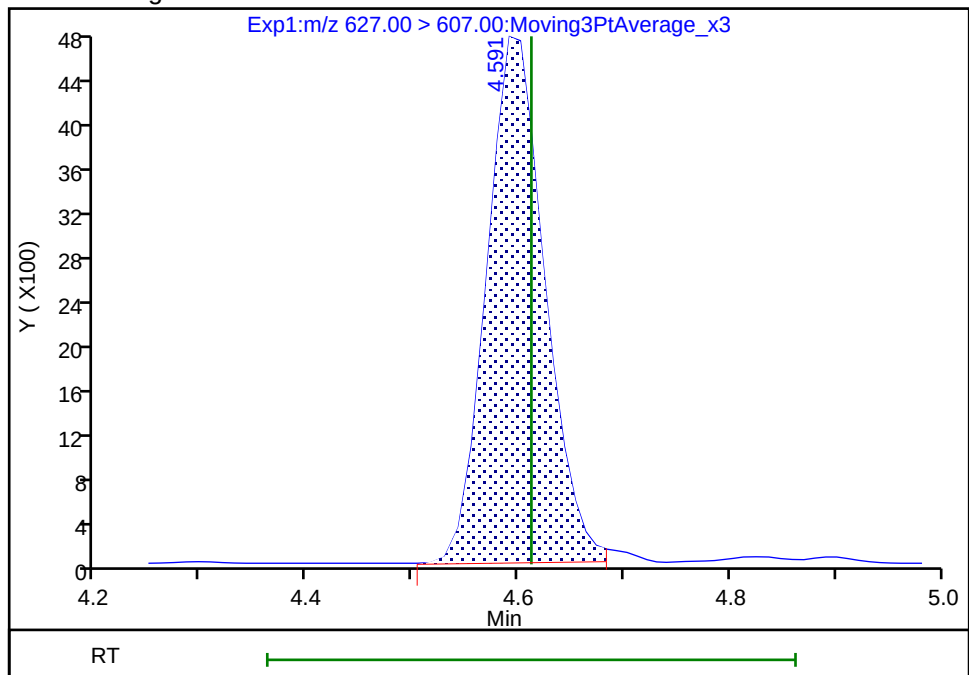
RT: 4.59
Area: 18236
Amount: 0.054417
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 18042
Amount: 0.053838
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 08:13:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

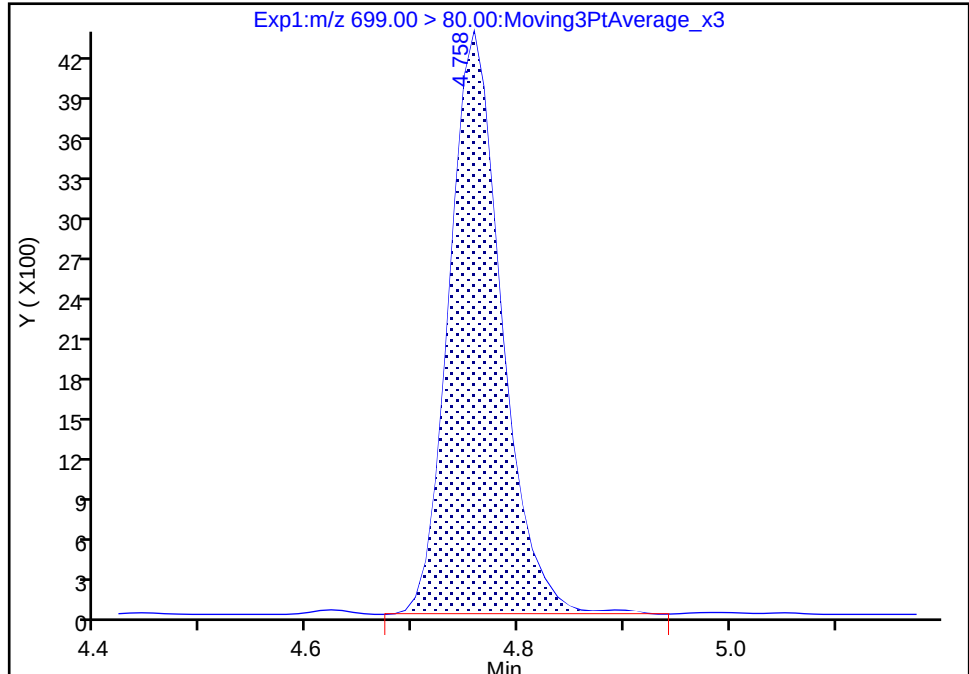
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

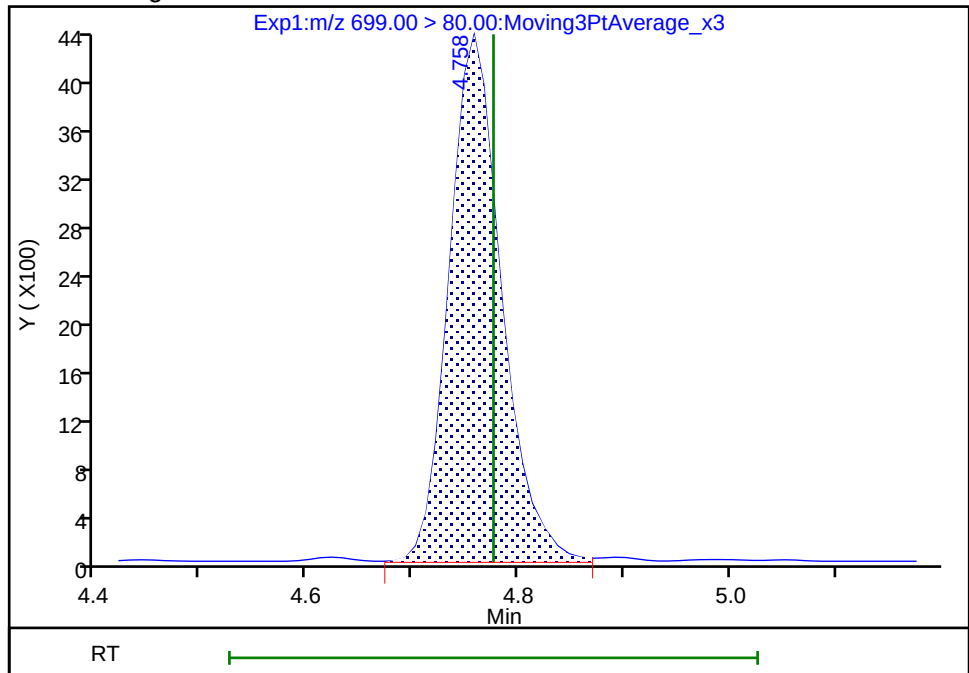
RT: 4.76
Area: 15091
Amount: 0.049060
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 15017
Amount: 0.048819
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:26:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

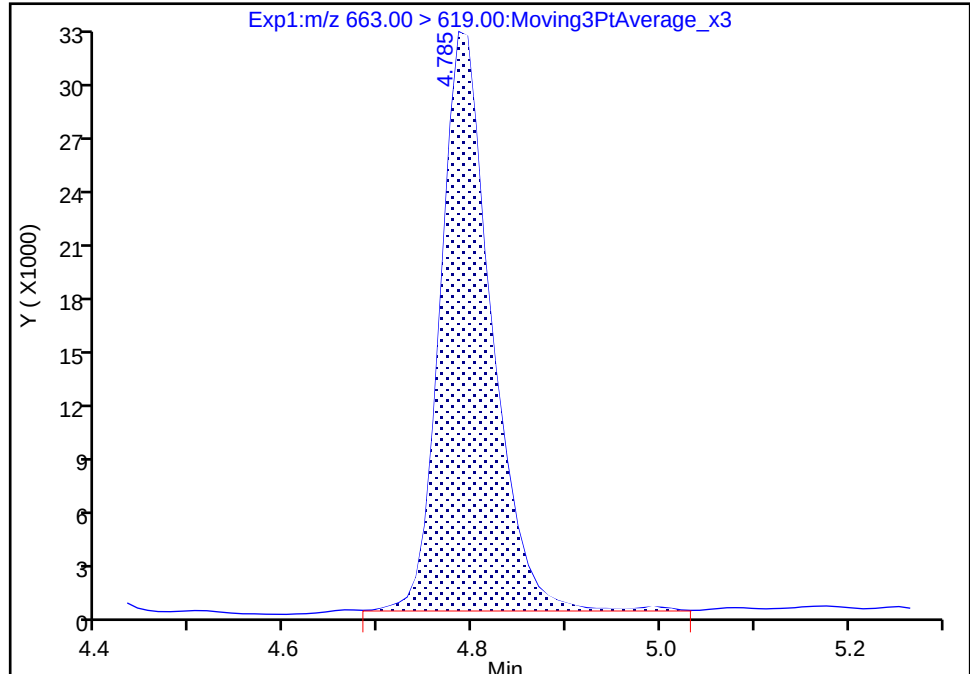
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

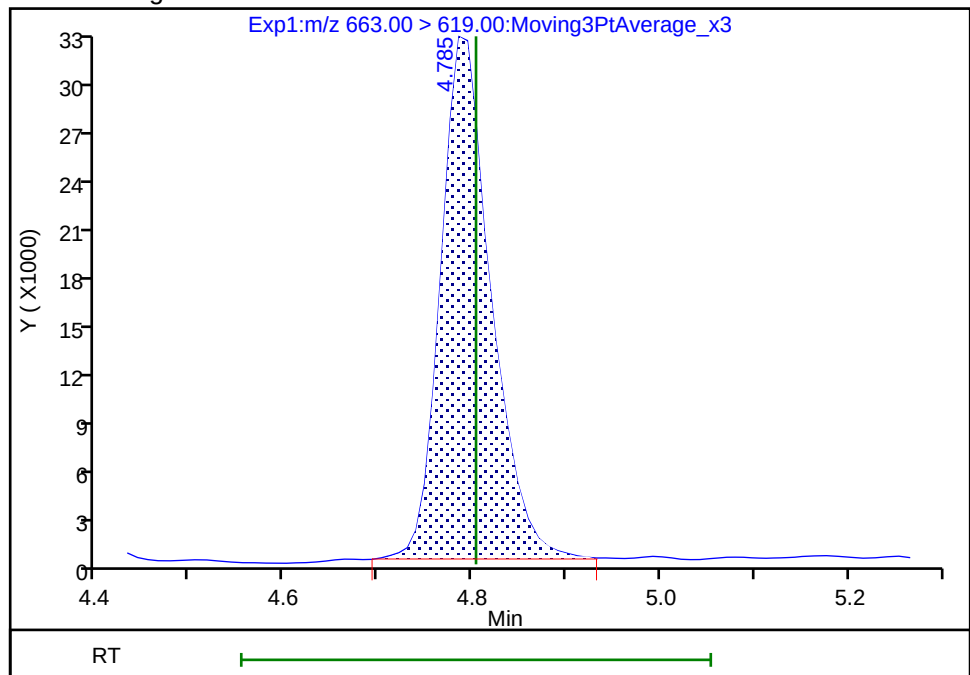
RT: 4.79
Area: 119417
Amount: 0.051399
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 117986
Amount: 0.050783
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:26:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

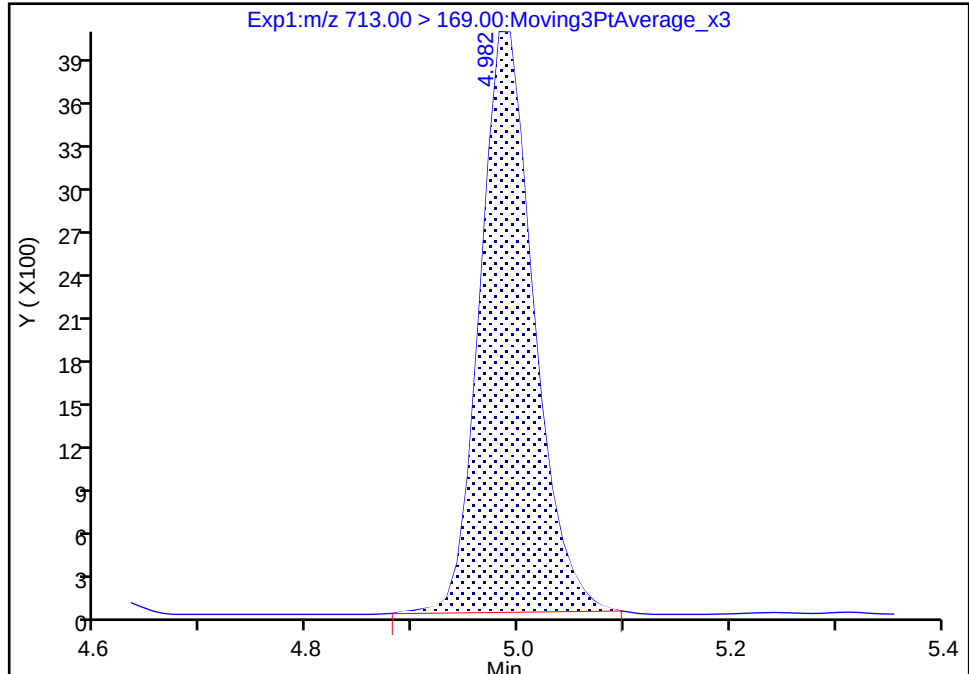
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

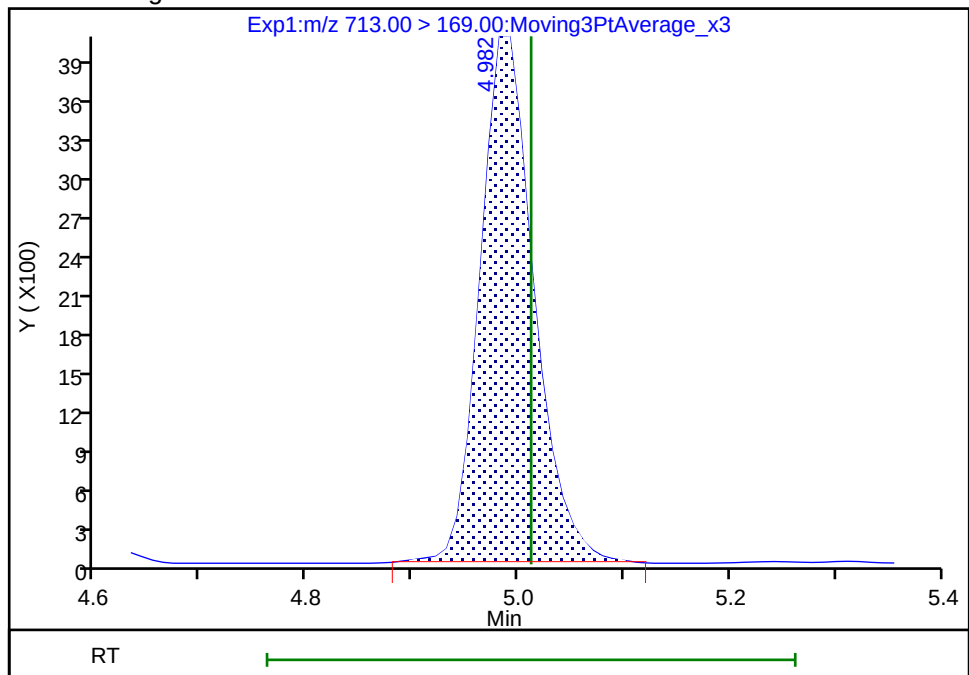
RT: 4.98
Area: 14181
Amount: 0.047044
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 14327
Amount: 0.047529
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:26:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

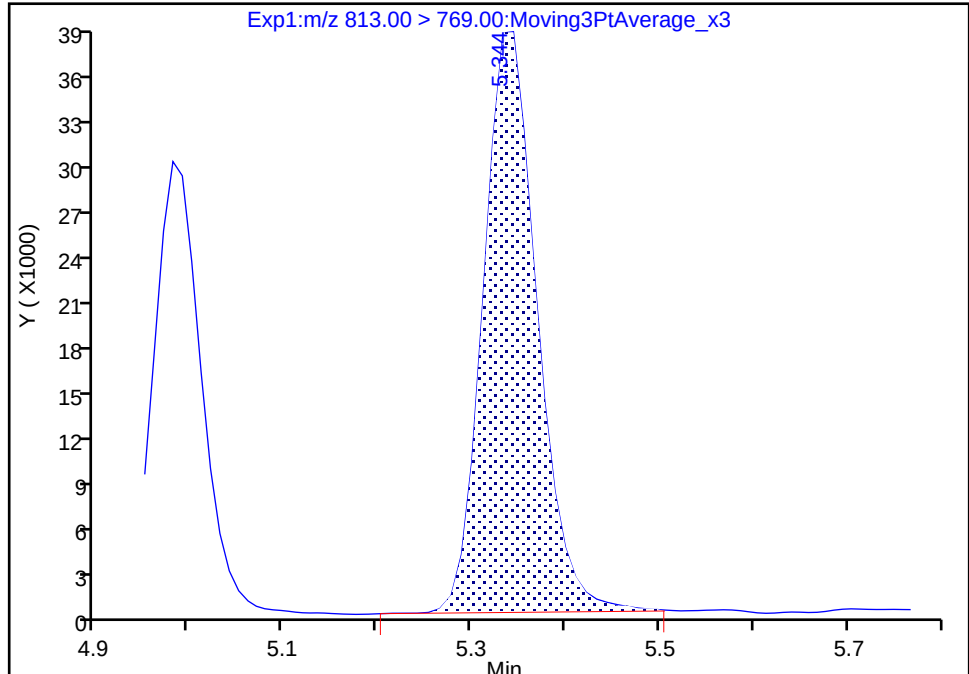
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A05.d
Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

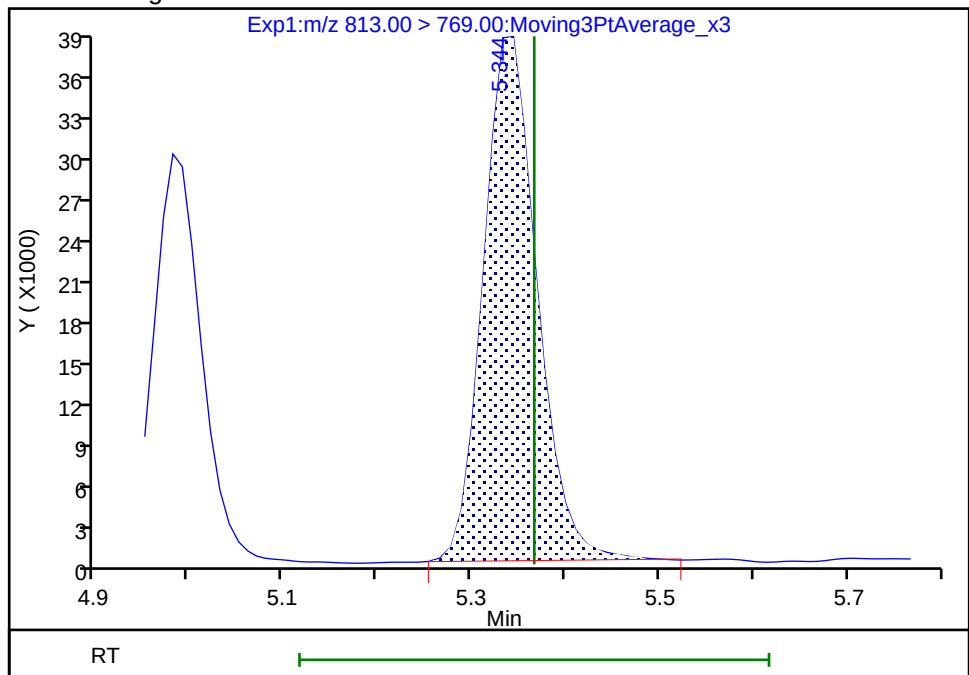
RT: 5.34
Area: 149656
Amount: 0.043034
Amount Units: ng/ml

Processing Integration Results



RT: 5.34
Area: 149829
Amount: 0.043103
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:27:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

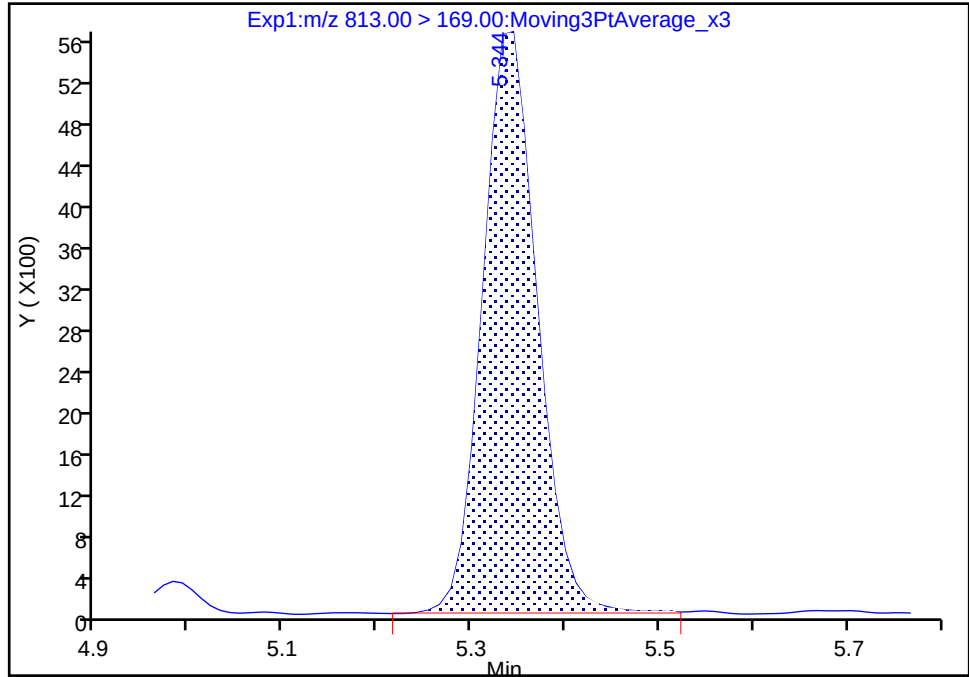
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

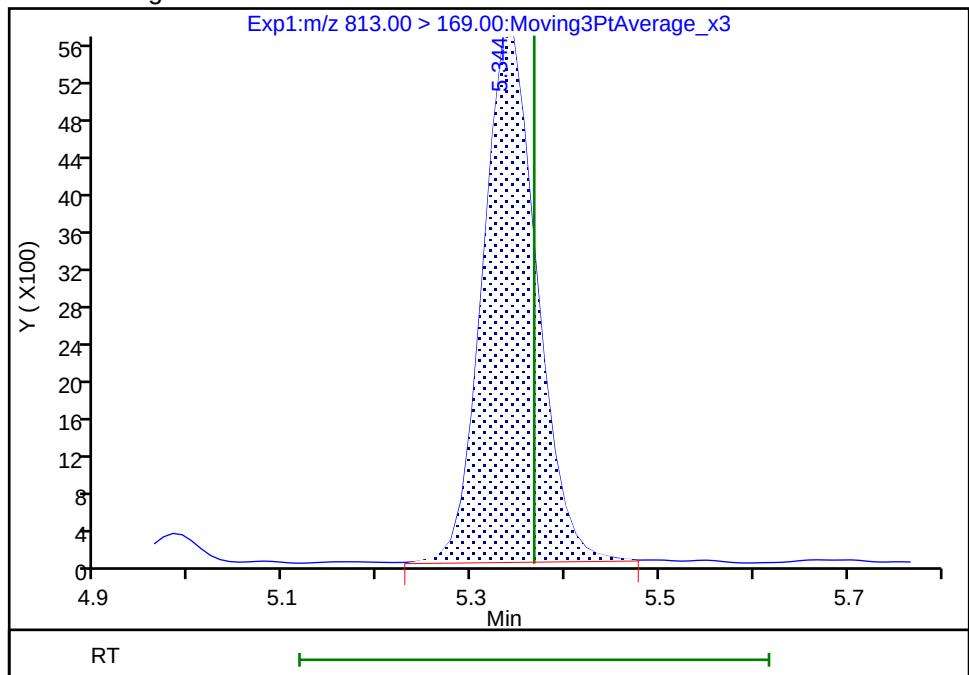
RT: 5.34
Area: 22666
Amount: 0.043034
Amount Units: ng/ml

Processing Integration Results



RT: 5.34
Area: 22538
Amount: 0.043103
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:27:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

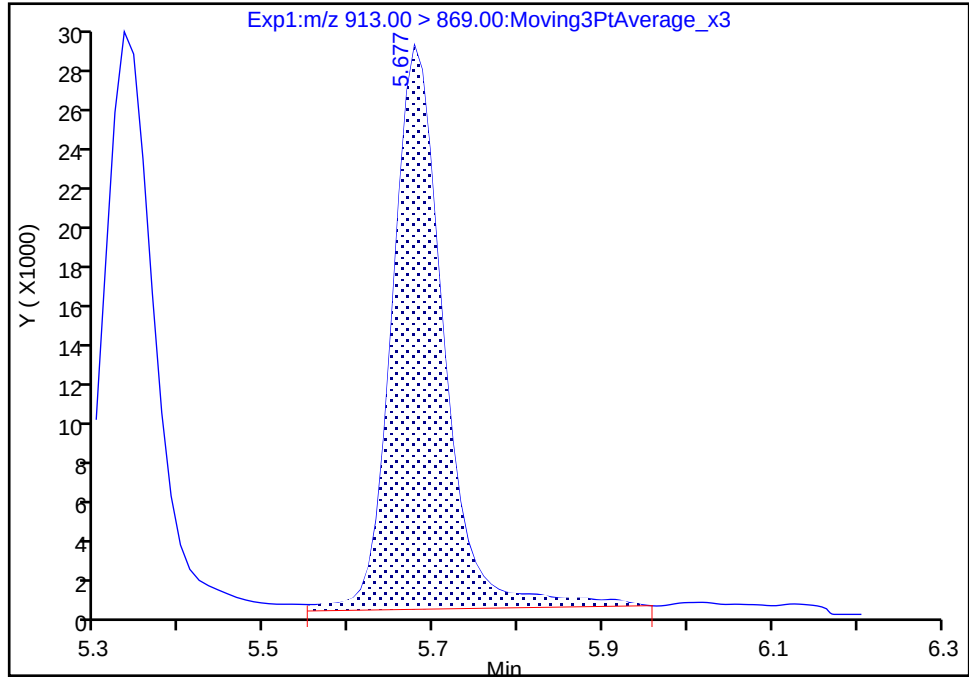
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Injection Date: 05-Jan-2023 15:22:07 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

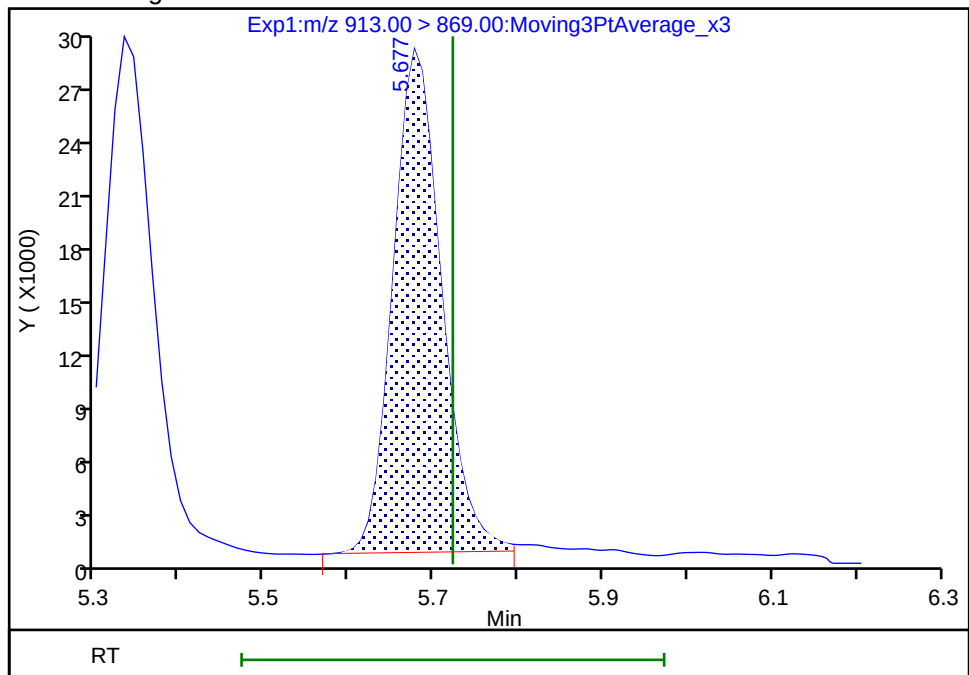
RT: 5.68
Area: 120068
Amount: 0.053845
Amount Units: ng/ml

Processing Integration Results



RT: 5.68
Area: 111593
Amount: 0.050045
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:27:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCV 200-187284/10 Calibration Date: 01/05/2023 16:03

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230105A10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9164		0.889	1.00	-11.1	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	0.9646		0.885	1.00	-11.5	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.028		0.795	0.884	-10.1	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.927		0.887	0.934	-5.0	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9790		0.898	1.00	-10.2	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.158		0.813	0.938	-13.3	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9422		0.892	1.00	-10.8	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.008		0.813	0.910	-10.7	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.018		0.935	1.00	-6.5	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.159		0.883	0.942	-6.3	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.327		0.904	0.952	-5.0	
6:2 FTS	L1ID		2.183		0.968	0.948	2.1	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9507		0.889	1.00	-11.1	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.101		0.840	0.928	-9.5	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9269		0.894	1.00	-10.6	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.796		0.934	0.932	0.2	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8670		0.907	0.960	-5.5	
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.000		0.922	1.00	-7.8	
8:2 FTS	AveID	1.617	1.705		1.01	0.958	5.4	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9823		0.940	1.00	-6.0	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8649		0.994	1.00	-0.6	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6676		0.888	0.964	-7.9	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9625		0.955	1.00	-4.5	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8209		0.917	1.00	-8.3	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.313		0.944	0.942	0.2	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9205		0.869	1.00	-13.1	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	0.9610		0.953	0.964	-1.1	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2846		0.898	0.968	-7.2	

FORM VII
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SDG No.: _____

Lab Sample ID: CCV 200-187284/10 Calibration Date: 01/05/2023 16:03

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230105A10.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9555		0.943	1.00	-5.7	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1157		0.845	1.00	-15.5	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9063		0.969	1.00	-3.1	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8033		0.975	1.00	-2.5	
13C4 PFBA	Ave	1.122	1.030		1.15	1.25	-8.2	
13C5 PFPeA	Ave	0.8543	0.7853		1.15	1.25	-8.1	
13C3 PFBS	Ave	0.9281	0.8475		1.06	1.16	-8.7	
M2-4:2 FTS	Ave	0.0820	0.0782		1.11	1.17	-4.7	
13C2 PFHxA	Ave	0.8951	0.8195		1.14	1.25	-8.5	
13C3 HFPO-DA	Ave	0.1580	0.1527		1.21	1.25	-3.4	
18O2 PFHxS	Ave	0.6761	0.6437		1.13	1.18	-4.8	50.0
13C4 PFHpA	Ave	0.9206	0.8653		1.18	1.25	-6.0	50.0
M2-6:2 FTS	Ave	0.1134	0.1196		1.25	1.19	5.5	
13C4 PFOA	Ave	1.035	1.047		1.27	1.25	1.2	50.0
13C4 PFOS	Ave	0.4588	0.4262		1.11	1.20	-7.1	50.0
13C5 PFNA	Ave	1.006	1.011		1.26	1.25	0.5	50.0
13C2 PFDA	Ave	1.025	1.119		1.37	1.25	9.2	
M2-8:2 FTS	Ave	0.1387	0.1436		1.24	1.20	3.5	
13C8 FOSA	Ave	0.8403	0.7881		1.17	1.25	-6.2	
d3-NMeFOSAA	Ave	0.2087	0.2008		1.20	1.25	-3.8	
13C2 PFUnA	Ave	0.9385	0.9837		1.31	1.25	4.8	
d5-NEtFOSAA	Ave	0.2055	0.2005		1.22	1.25	-2.4	
13C2 PFDoA	Ave	0.9562	1.036		1.35	1.25	8.4	
13C2 PFTeDA	Ave	0.8270	0.9924		1.50	1.25	20.0	
13C2 PFHxDA	Ave	1.022	1.177		1.44	1.25	15.1	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Jan-2023 16:03:01 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053906-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:18:35 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 12:38:51

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	2.076	0.009	0.605	3009771	1.15		91.8	10894	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	2206513	0.8887		88.9	176	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2295658	1.15		91.9	2833	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1771595	0.8851		88.5	26.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.696	2304168	1.06		91.3	126337	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.414	2.400	0.014	1.006	1801783	0.7946	Target=2.09	89.9	1224	
298.90 > 99.00	2.414	2.400	0.014	1.006	872161		2.07(1.04-3.13)		335	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	499788	0.8873		95.0	2071	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.783	213446	1.11		95.3	151	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.794	2395592	1.14		91.5	6639	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.000	1876170	0.8985	Target=14.25	89.8	224	
313.00 > 119.00	2.738	2.725	0.013	1.000	132416		14.17(7.12-21.37)		167	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.738	2.737	0.001	0.887	1634981	0.8133	Target=3.04	86.7	1293	
349.00 > 99.00	2.738	2.737	0.001	0.887	560488		2.92(1.52-4.56)		714	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	336409	0.8923		89.2	1355	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	2.835	2.835	0.0	0.822	446328	1.21		96.6	2375	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1780050	1.13		95.2	2750	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	1381248	0.8130	Target=3.66	89.3	1672	M
399.00 > 99.00	3.088	3.088	0.0	1.000	407861		3.39(1.83-5.49)		380	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2529542	1.17		94.0	4456	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.000	2059397	0.9347	Target=3.97	93.5	289	M
363.00 > 169.00	3.099	3.099	0.0	1.000	494334		4.17(1.98-5.95)		647	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.834	4844240	0.8825	Target=3.16	93.7	3068	
377.00 > 85.00	3.132	3.132	0.0	0.834	1473713		3.29(1.58-4.73)		1479	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	332242	1.25		106	472	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	579112	0.9680		102	452	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.431	3.439	-0.008	0.914	1258758	0.9042	Target=5.14	95.0	1732	M
449.00 > 99.00	3.431	3.439	-0.008	0.914	256106		4.91(2.57-7.72)		600	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	3061938	1.26		101	6120	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2923409	1.25			3368	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	2328899	0.8893	Target=2.79	88.9	161	M
413.00 > 169.00	3.448	3.448	0.0	1.000	804451		2.90(1.40-4.19)		597	M
D 18 13C4 PFOS										
503.00 > 80.00	3.755	3.764	-0.009	1.089	1191117	1.11		92.9	2390	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.755	3.764	-0.009	1.000	1018064	0.8399	Target=5.11	90.5	784	M
499.00 > 99.00	3.755	3.764	-0.009	1.000	216390		4.70(2.55-7.66)		428	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.783	-0.009	1.000	2191868	0.8936	Target=8.55	89.4	391	M
463.00 > 169.00	3.774	3.783	-0.009	1.000	260602		8.41(4.28-12.83)		670	M
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.783	-0.009	1.094	2955786	1.26		101	3837	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.916	3.928	-0.012	1.043	2597333	0.9336		100	4601	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.050	0.001	1.079	829619	0.9068	Target=2.53	94.5	2476	M
549.00 > 99.00	4.051	4.050	0.001	1.079	331352		2.50(1.27-3.80)		1390	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.181	3272321	1.37		109	4593	

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	4.081	-0.010	1.000	2617904	0.9221	Target=10.26 10.62(5.13-15.38)	92.2	701	
513.00 > 169.00	4.071	4.081	-0.010	1.000	246391				517	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.082	4.093	-0.011	1.184	402136	1.24		104	1444	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.082	4.093	-0.011	1.000	548489	1.01		105	1888	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1810560	0.9402		94.0	1086	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2303966	1.17		93.8	2688	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.218	4.228	-0.010	1.223	587125	1.20		96.2	569	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.218	4.228	-0.010	1.000	406261	0.99		99.4	512	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.320	4.331	-0.011	1.151	641515	0.8880	Target=2.51 2.65(1.25-3.76)	92.1	2691	
599.00 > 99.00	4.320	4.331	-0.011	1.151	241722				1157	
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.353	-0.010	1.259	2875710	1.31		105	5563	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.353	-0.010	1.000	2214323	0.9551	Target=9.88 11.01(4.94-14.82)	95.5	836	
563.00 > 169.00	4.343	4.353	-0.010	1.000	201115				816	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.354	4.365	-0.011	1.000	384955	0.9170		91.7	835	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.354	4.365	-0.011	1.263	586148	1.22		97.6	1035	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.183	4049231	0.9442		100	5160	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.000	2230523	0.8689	Target=7.77 7.26(3.89-11.66)	86.9	174	
613.00 > 169.00	4.580	4.591	-0.011	1.000	307401				2281	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.328	3028905	1.35		108	4966	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.601	4.612	-0.011	1.127	311091	0.9534		98.9	1220	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.757	4.776	-0.019	1.267	274568	0.8983	Target=0.50 0.53(0.25-0.76)	92.8	2329	
699.00 > 99.00	4.757	4.776	-0.019	1.267	516375				3302	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.047	2315263	0.9430	Target=5.21 5.65(2.60-7.81)	94.3	168	M
663.00 > 169.00	4.794	4.804	-0.010	1.047	409587				1362	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.991	5.012	-0.021	1.000	268553	0.8452	Target=0.89 0.92(0.44-1.33)	84.5	1397	
713.00 > 219.00	4.981	5.012	-0.031	0.998	292632				1950	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.991	5.012	-0.021	1.447	2901286	1.50		120	5681	

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	5.344	5.367	-0.023	1.000	2495335	0.9686	Target=5.65	96.9	198	
813.00 > 169.00	5.344	5.367	-0.023	1.000	389189		6.41(2.82-8.47)		1883	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.550	3441515	1.44		115	5700	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.685	5.722	-0.037	1.064	2211716	0.9754	Target=6.24	97.5	180	M
913.00 > 169.00	5.685	5.722	-0.037	1.064	315265		7.02(3.12-9.36)		860	

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\20230105-53906.b\PA230105A10.d

Injection Date: 05-Jan-2023 16:03:01

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

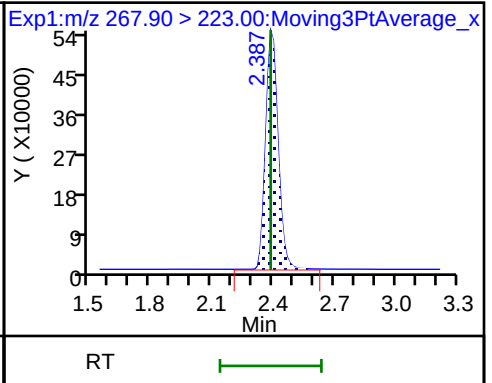
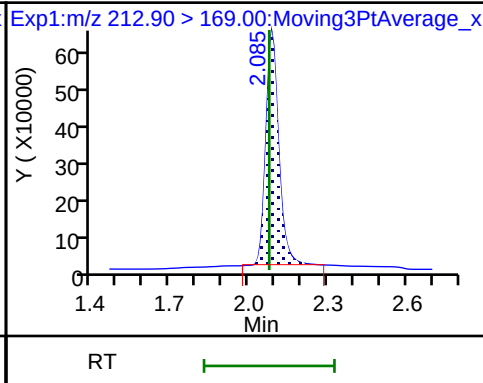
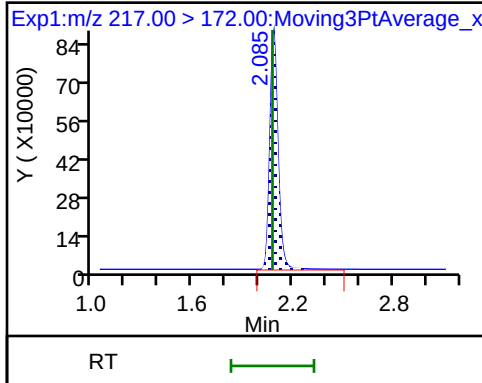
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

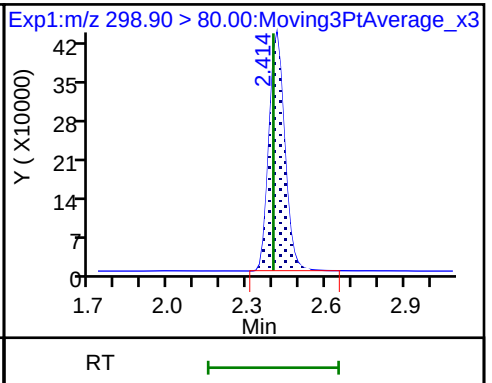
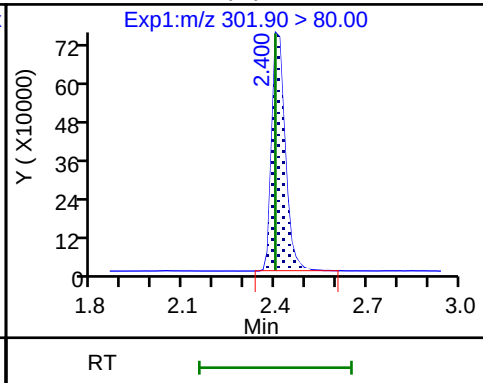
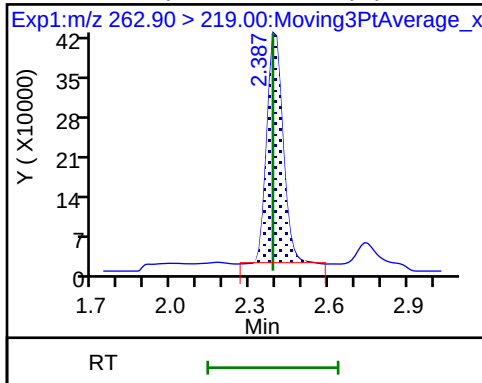
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

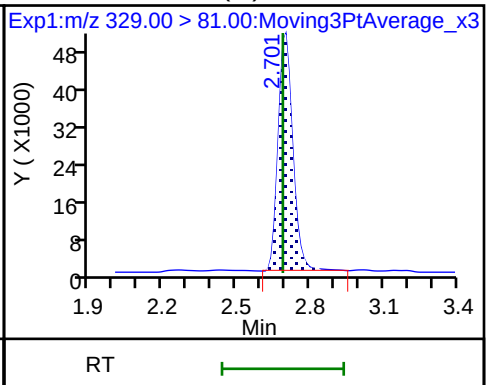
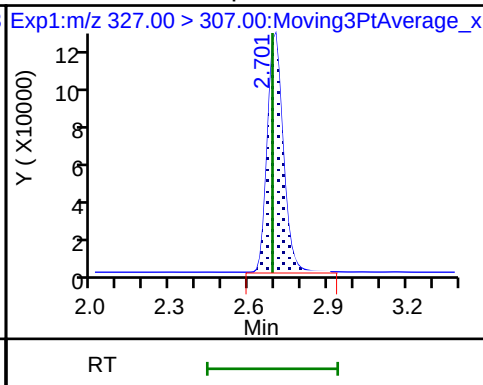
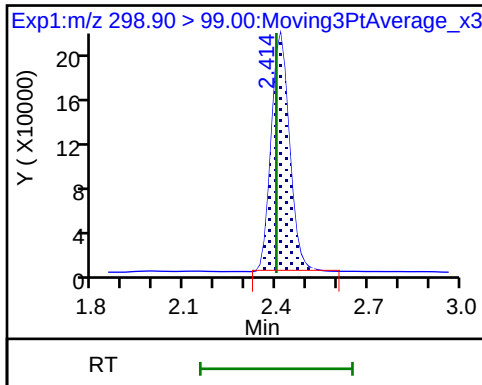
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

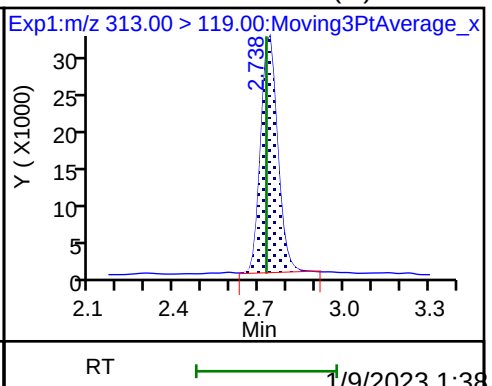
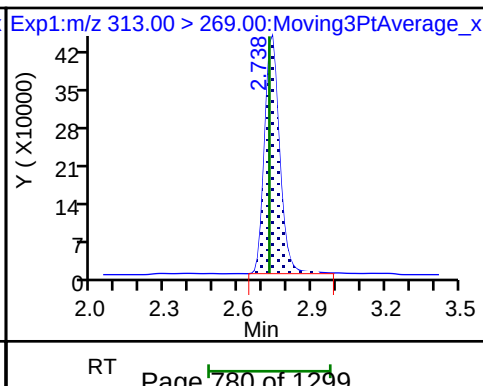
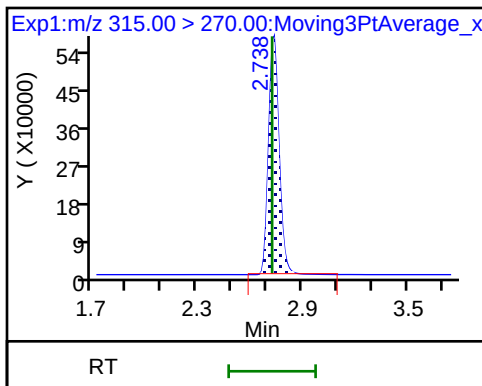
D 60 M2-4:2 FTS (M)

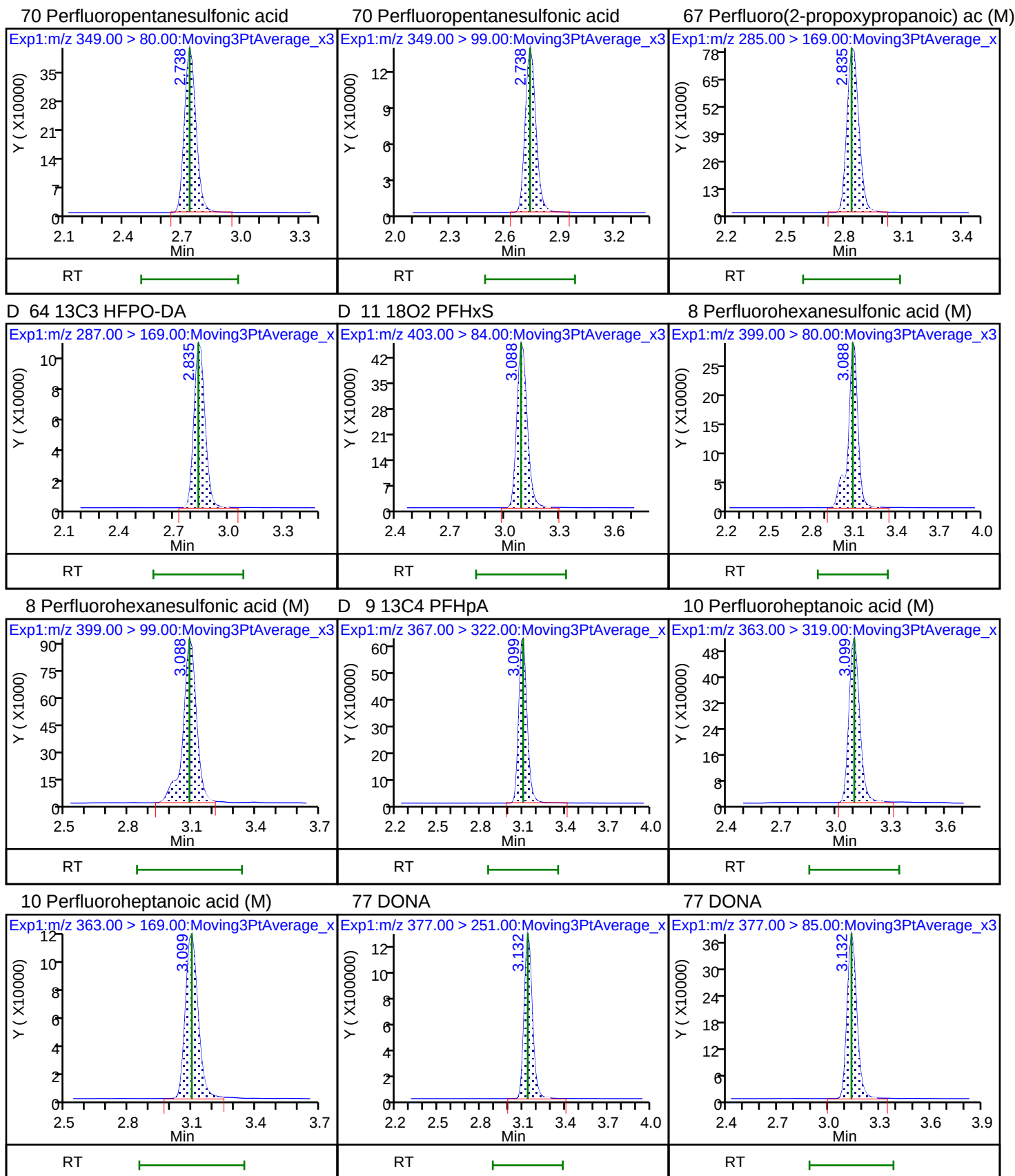


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

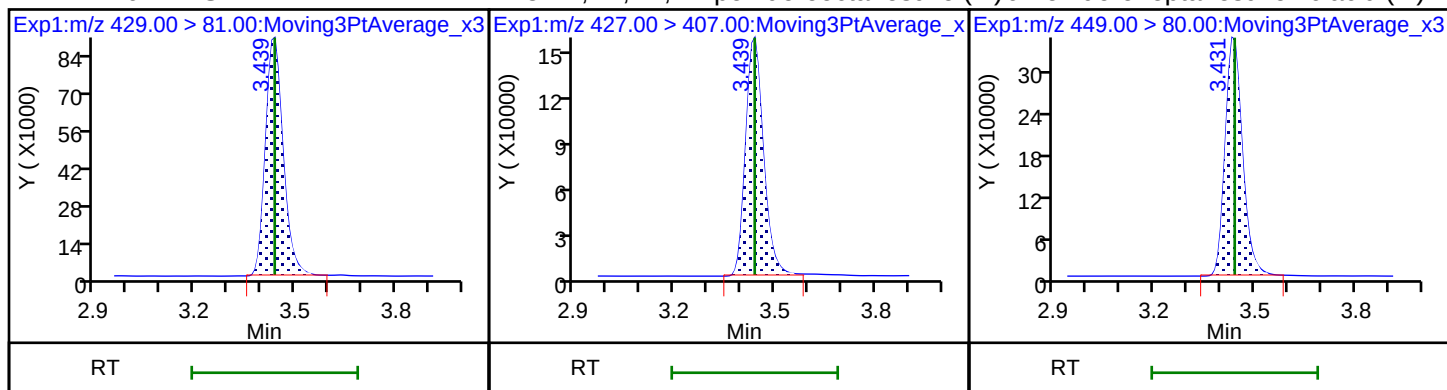
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

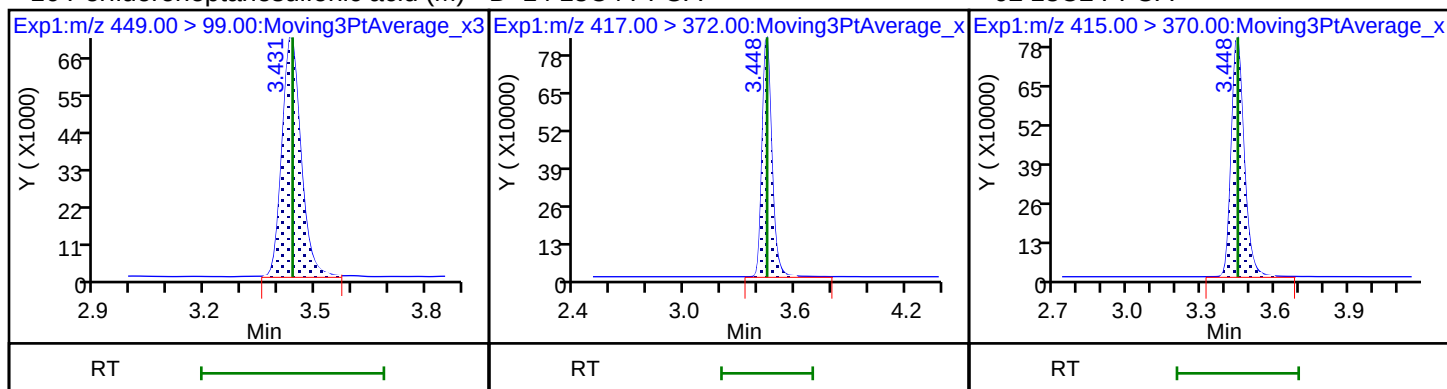
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

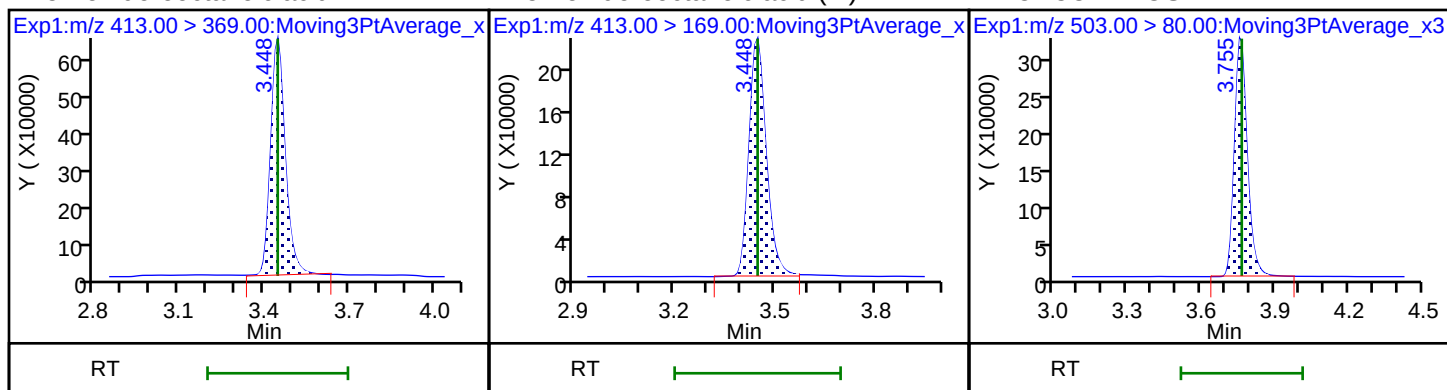
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

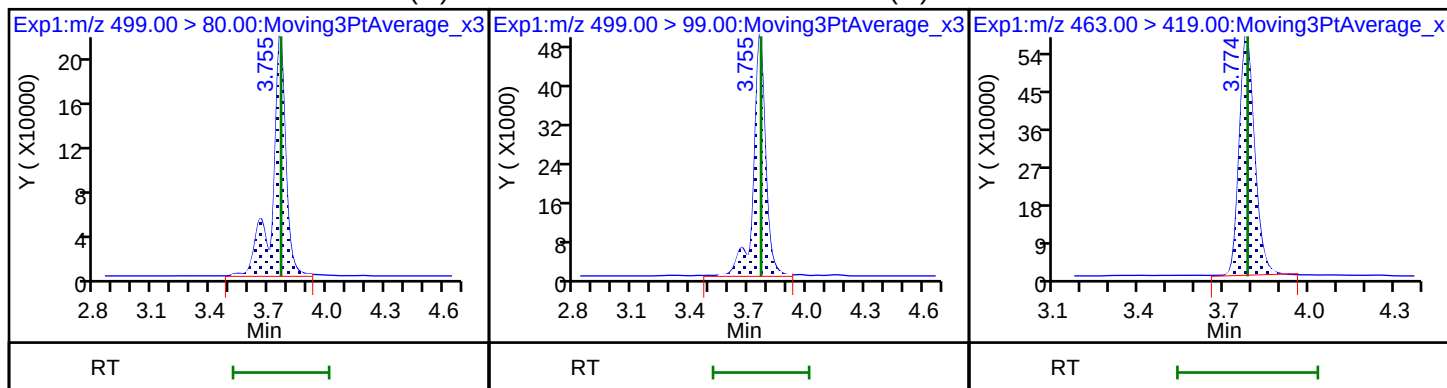
D 18 13C4 PFOS

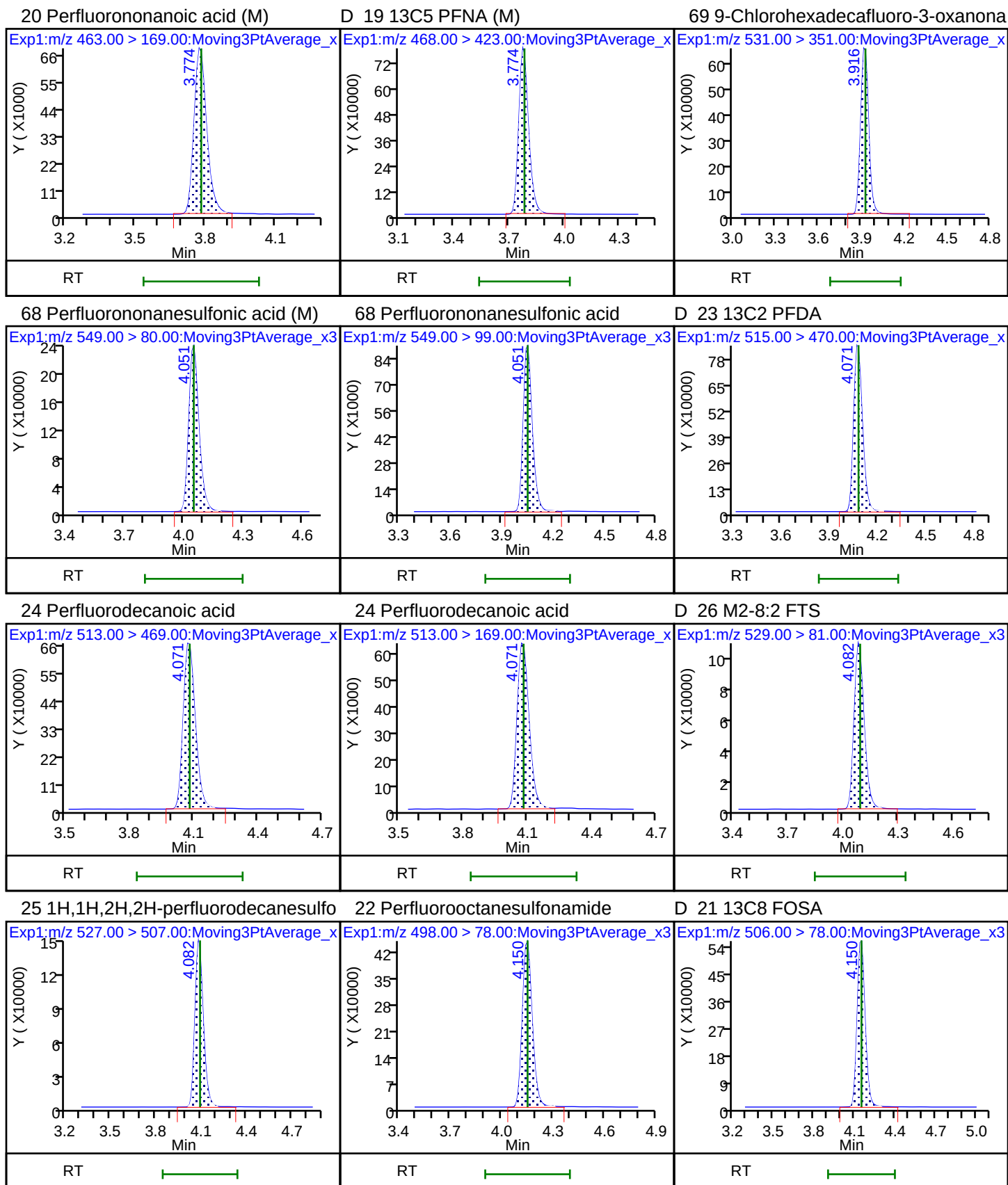


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

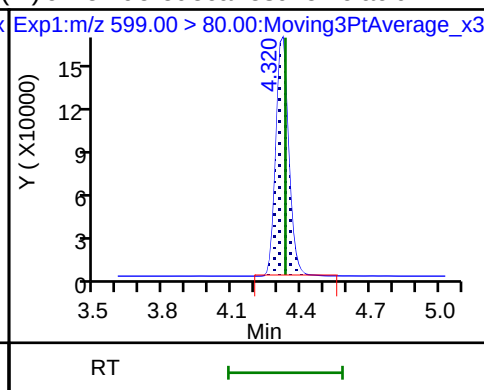
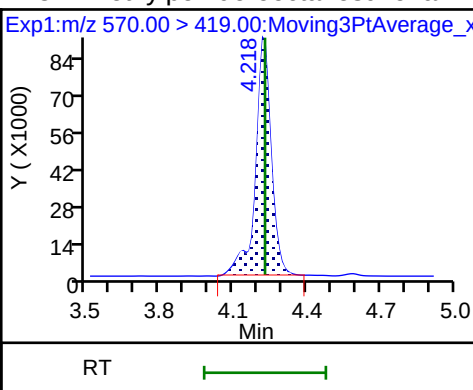
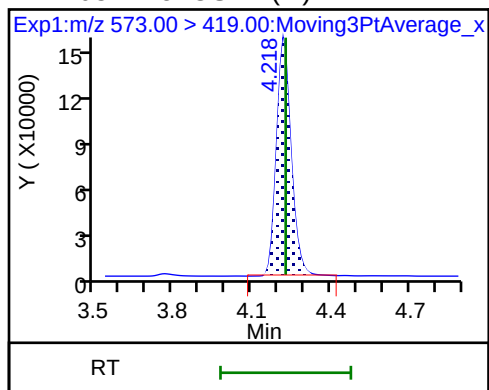




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

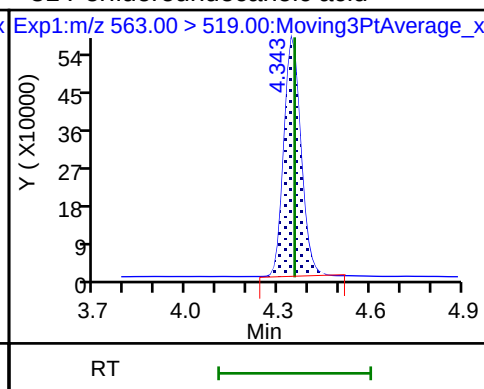
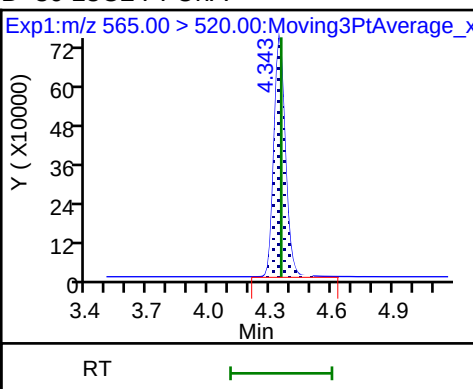
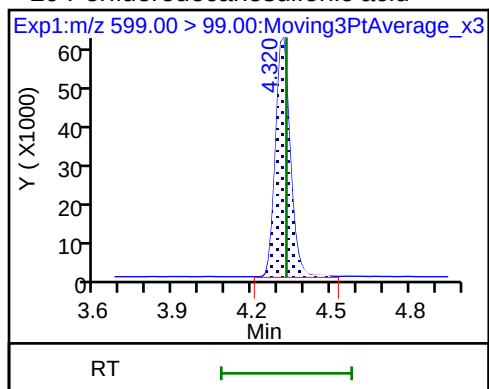
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

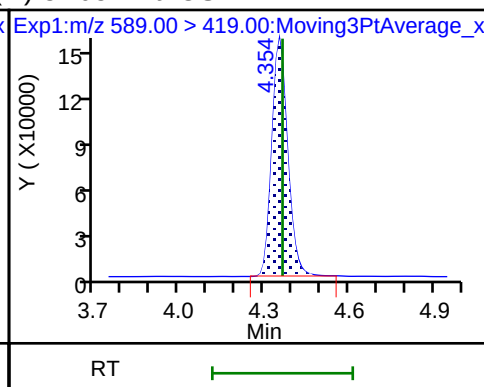
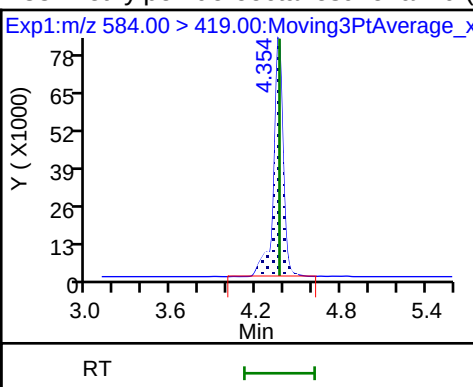
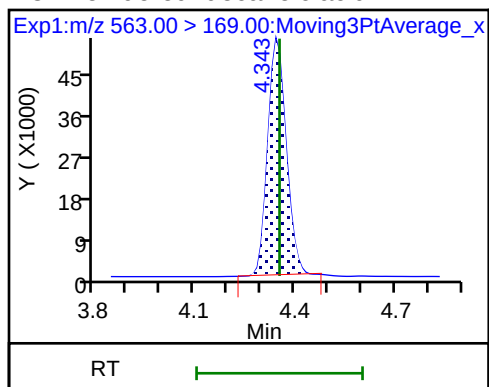
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

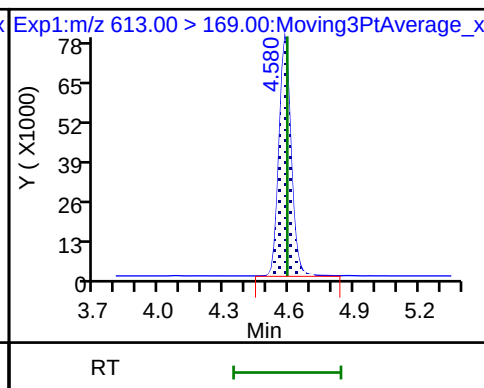
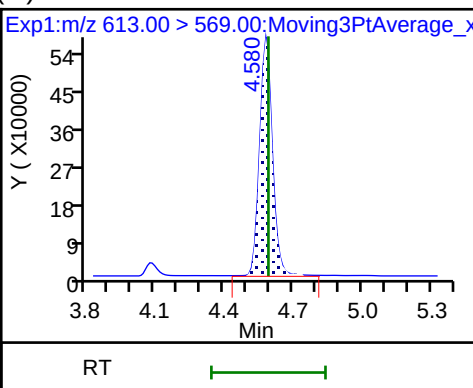
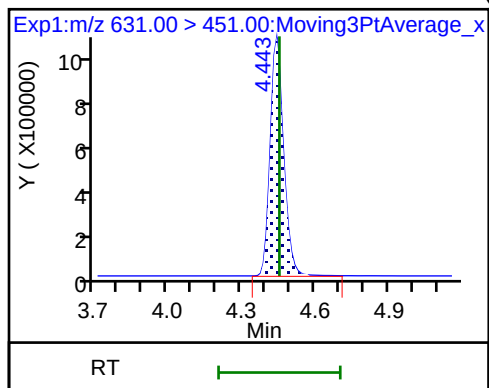
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

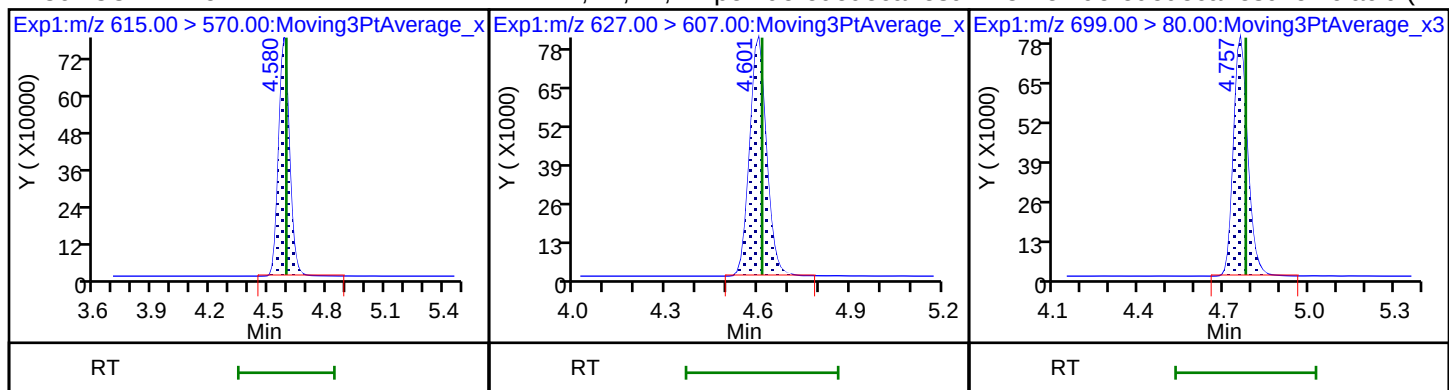
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

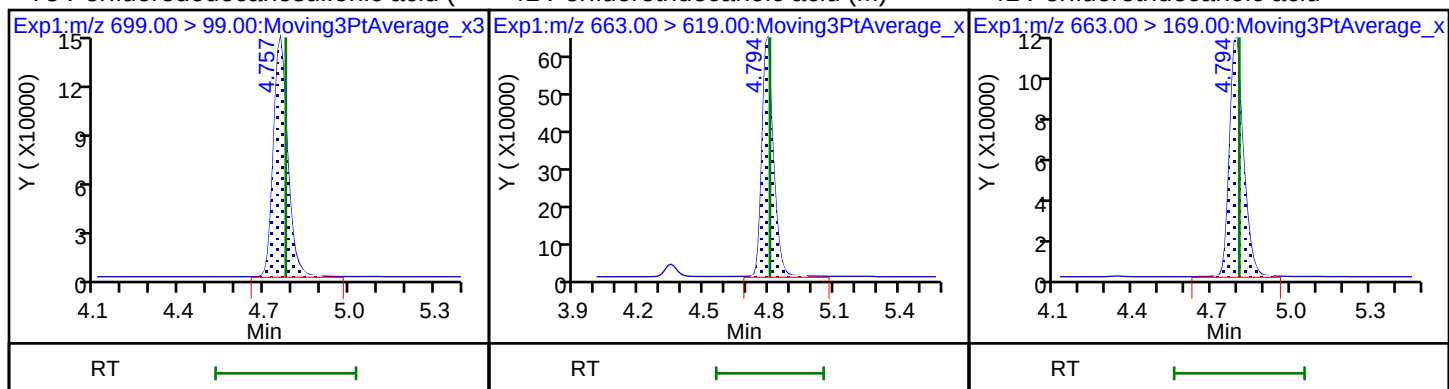
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

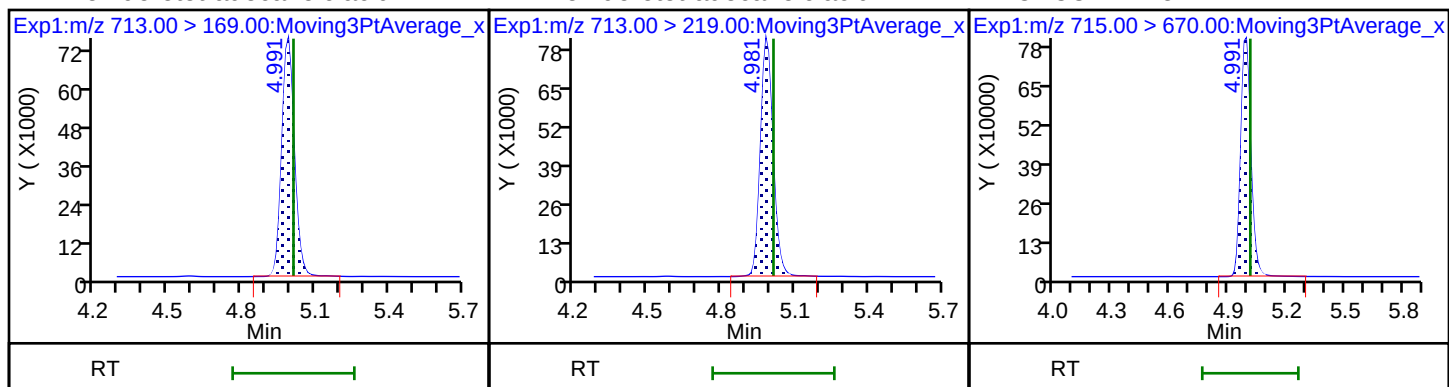
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

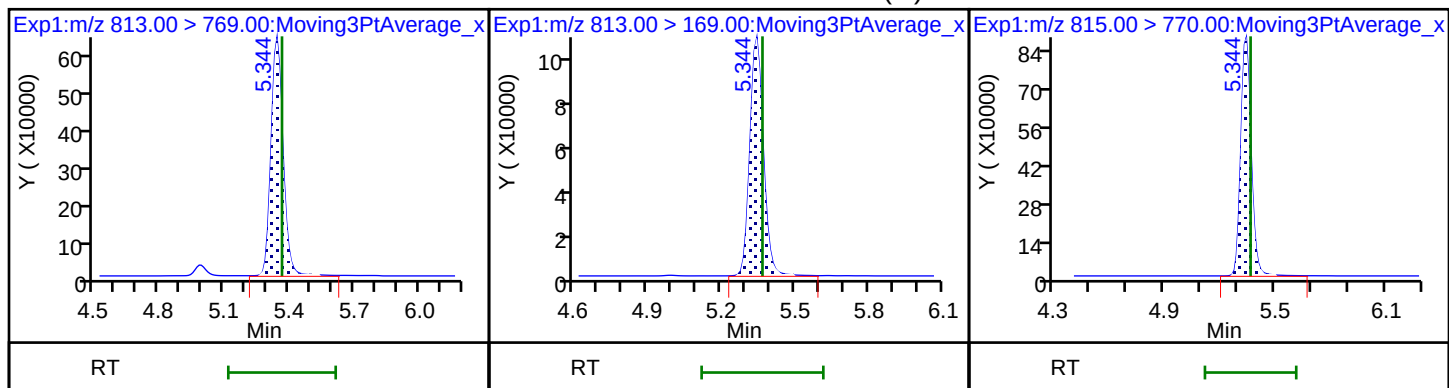
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

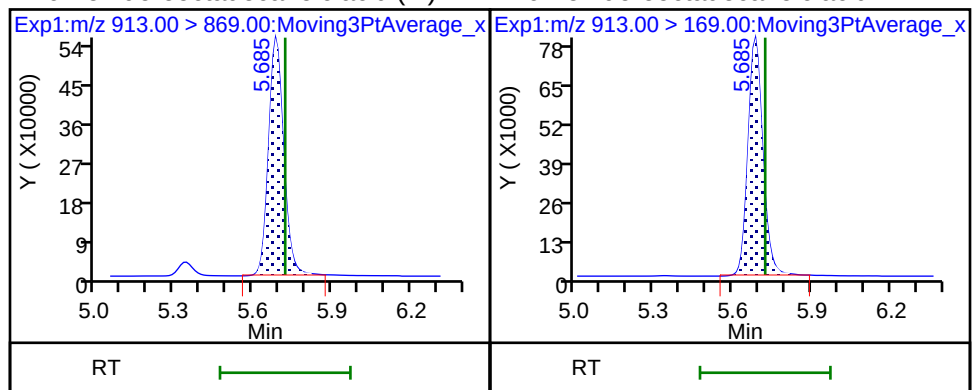
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

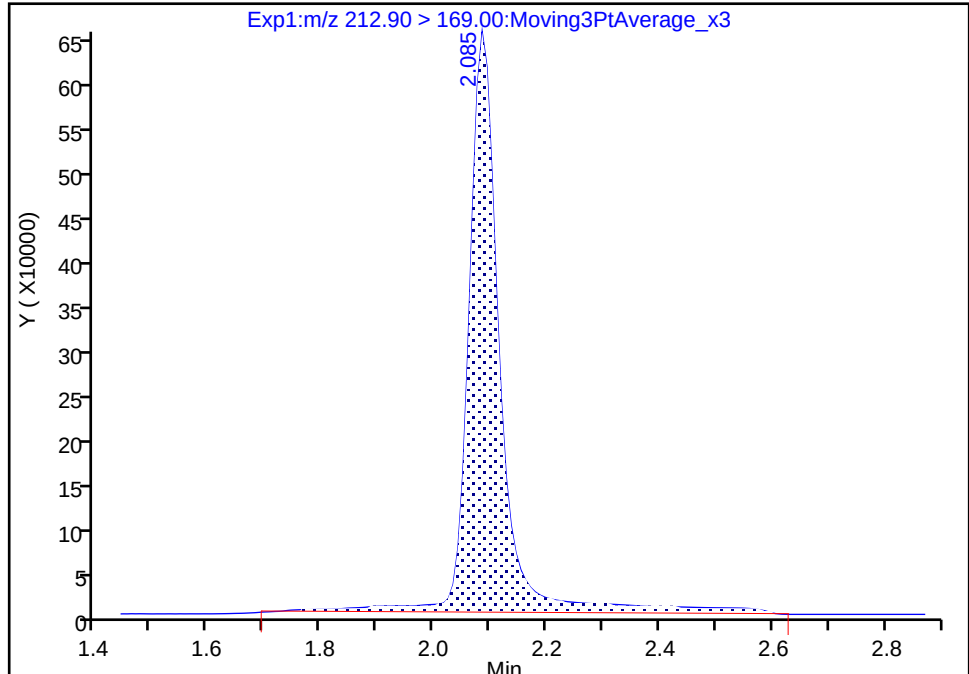
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

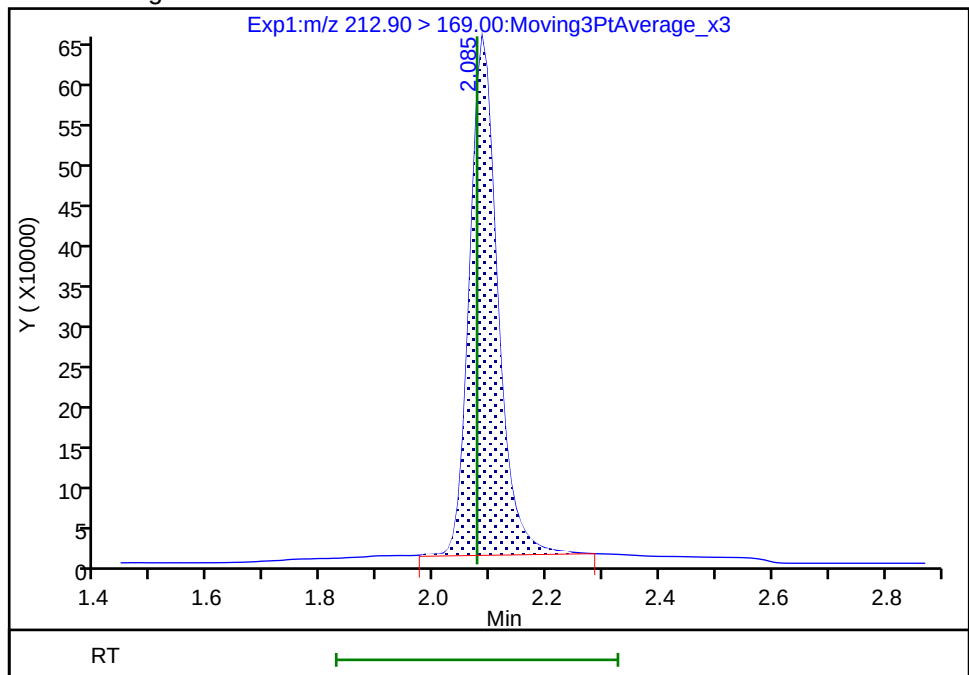
RT: 2.09
Area: 2610084
Amount: 1.051211
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2206513
Amount: 0.888673
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:35:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

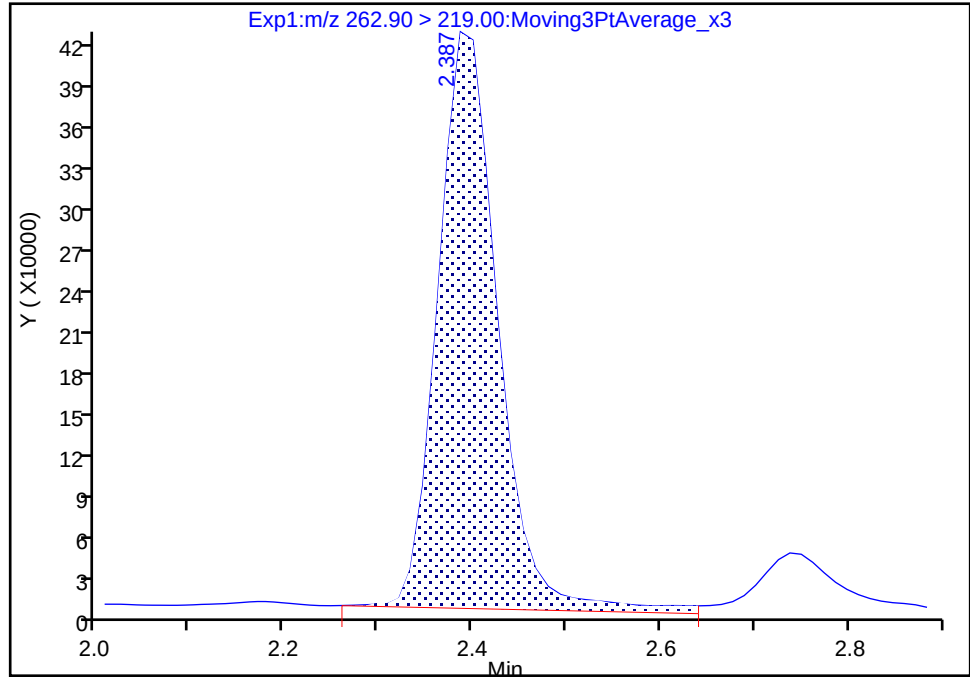
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

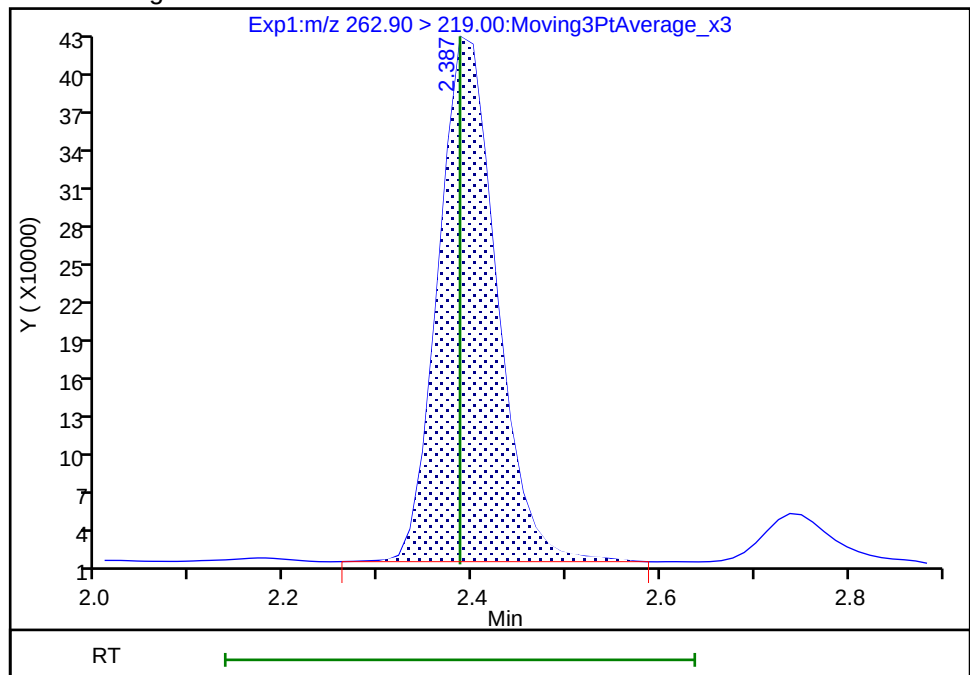
RT: 2.39
Area: 1842207
Amount: 0.920416
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1771595
Amount: 0.885136
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:35:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

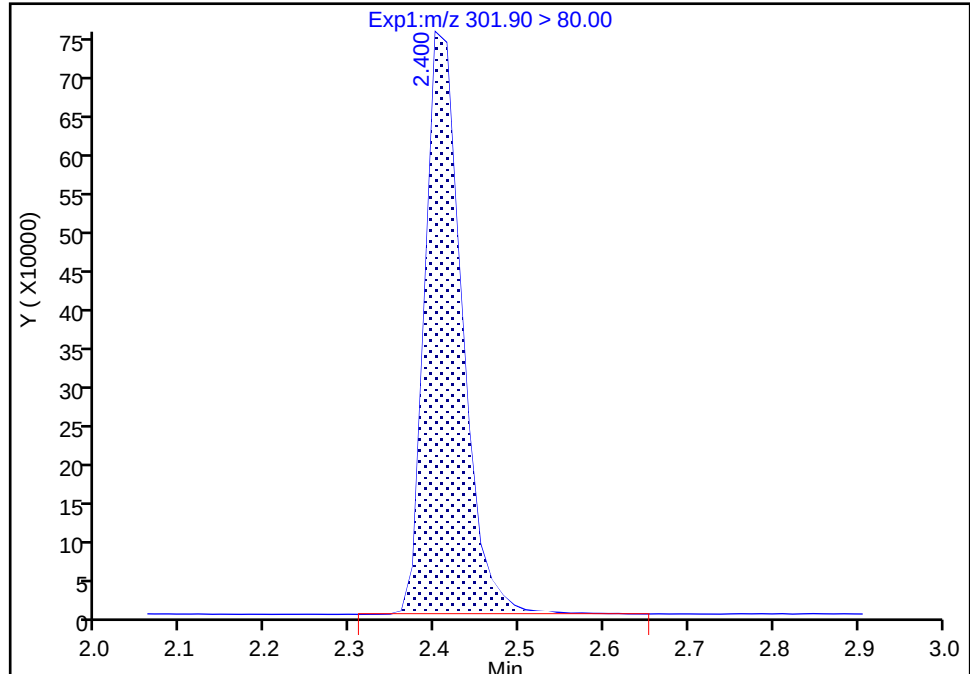
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Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

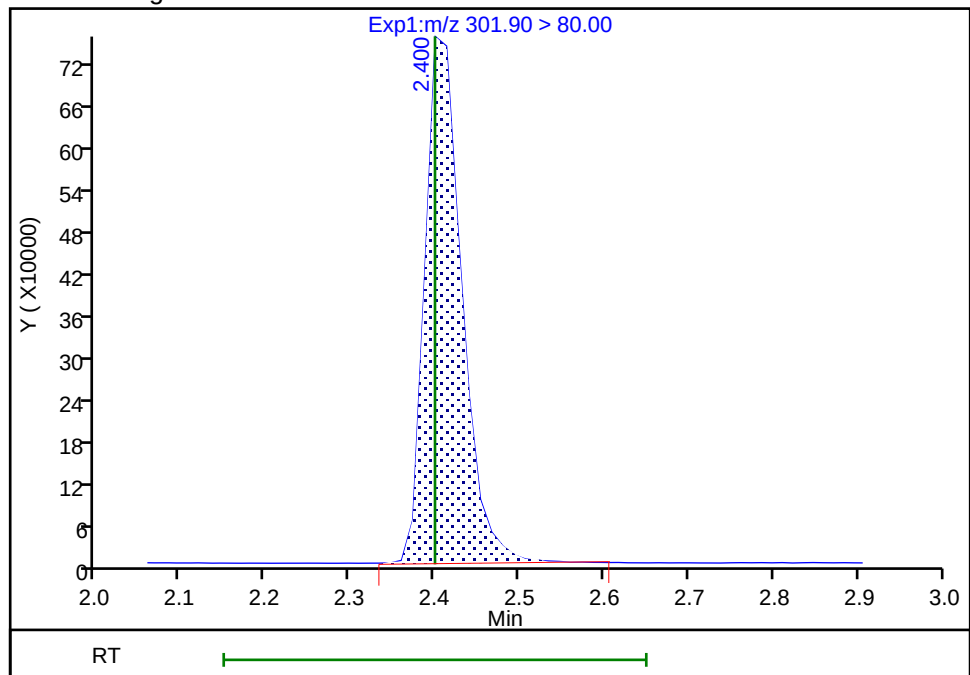
RT: 2.40
Area: 2310955
Amount: 1.064632
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2304168
Amount: 1.061505
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:35:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

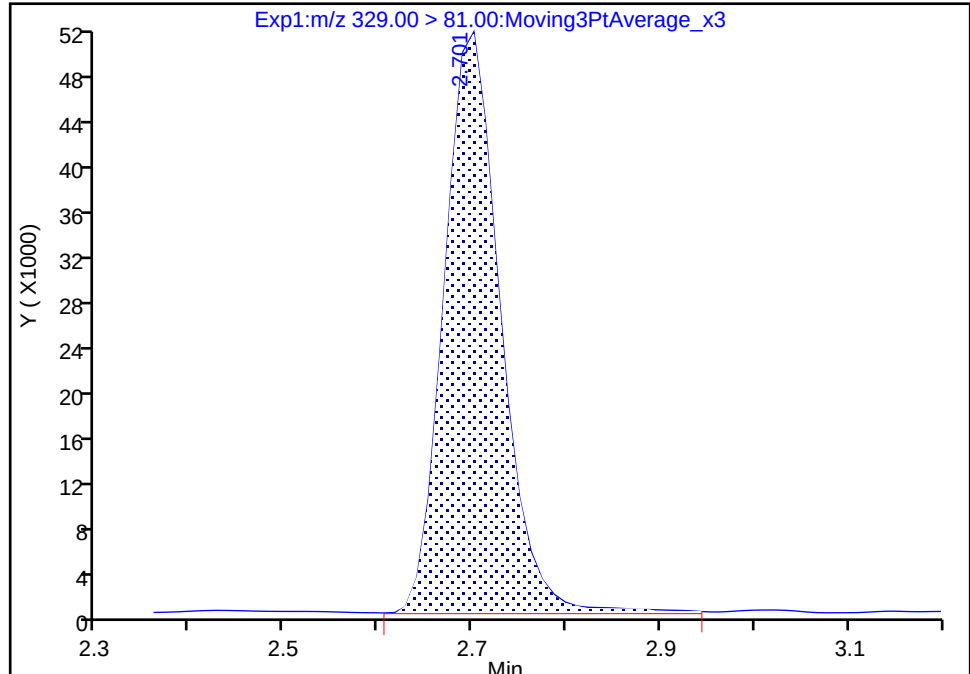
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Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

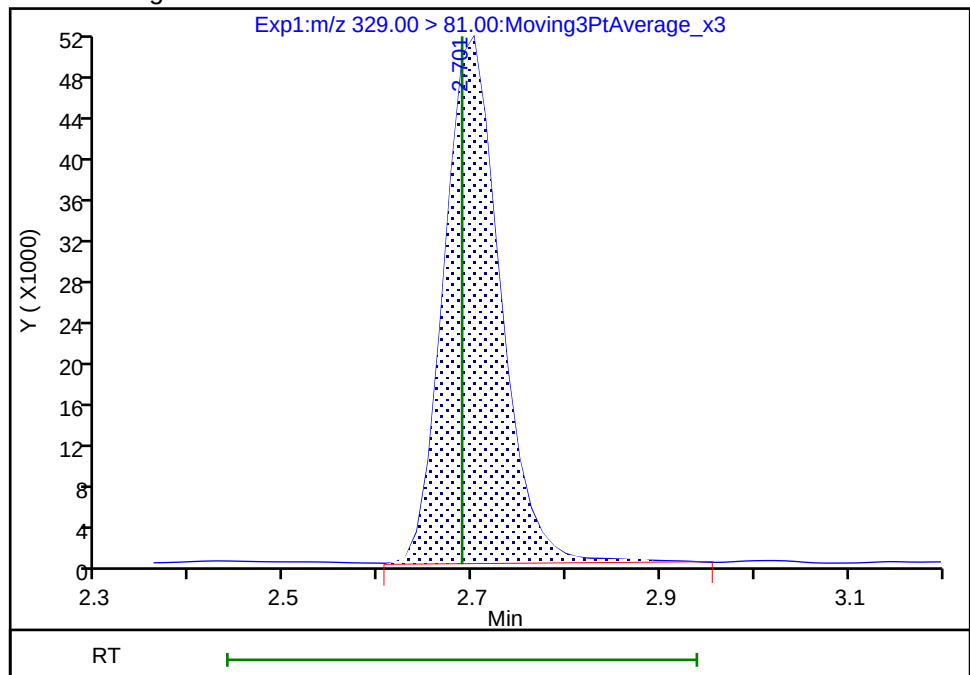
RT: 2.70
Area: 215564
Amount: 1.123875
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 213446
Amount: 1.112832
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:35:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

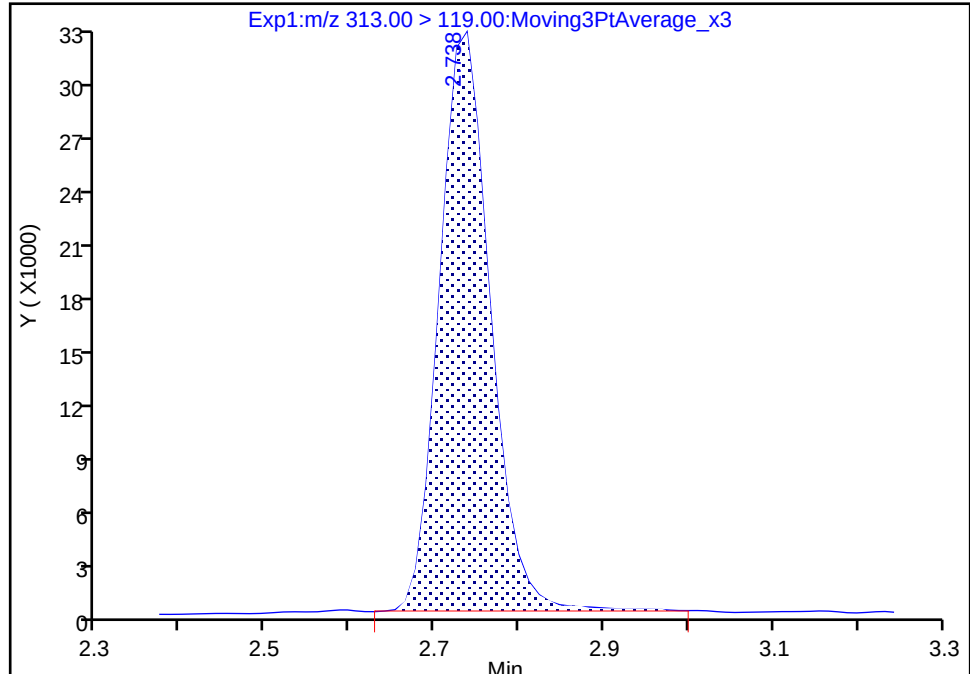
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Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

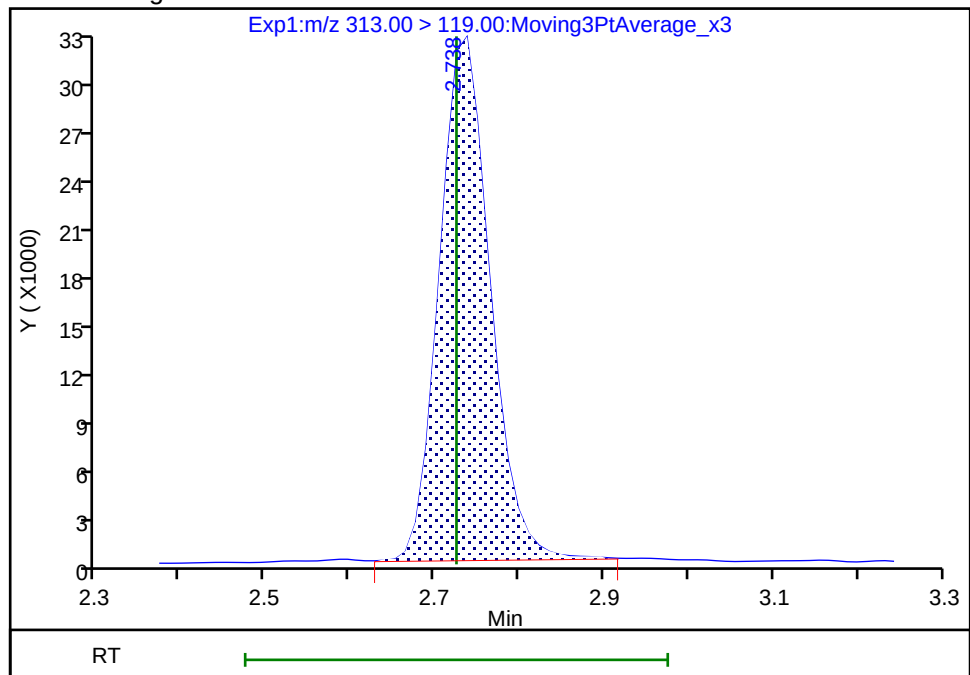
RT: 2.74
Area: 133712
Amount: 0.898459
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 132416
Amount: 0.898459
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:35:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

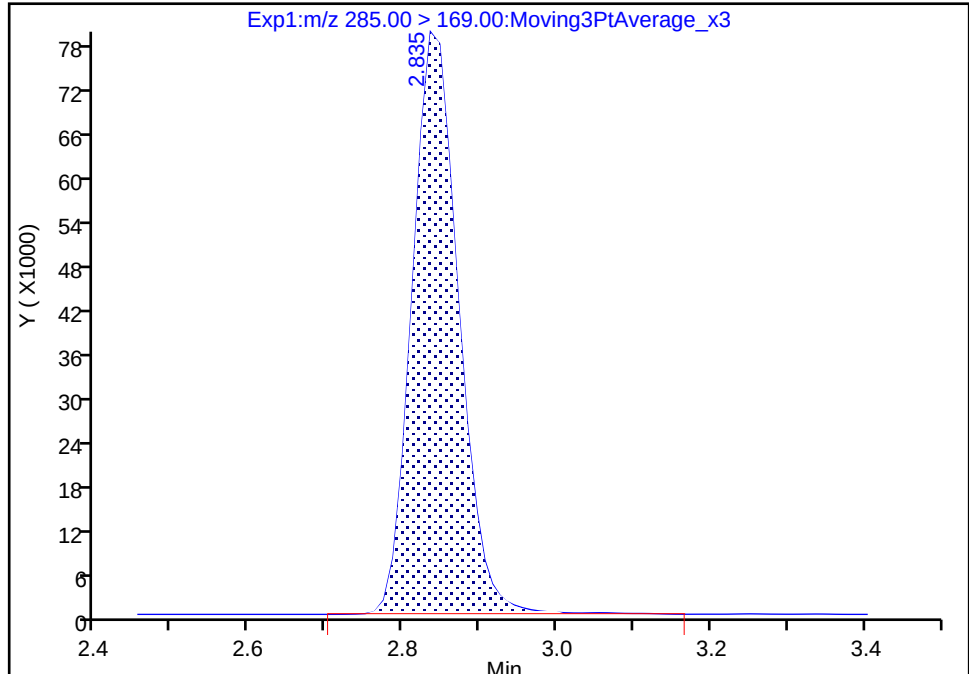
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Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

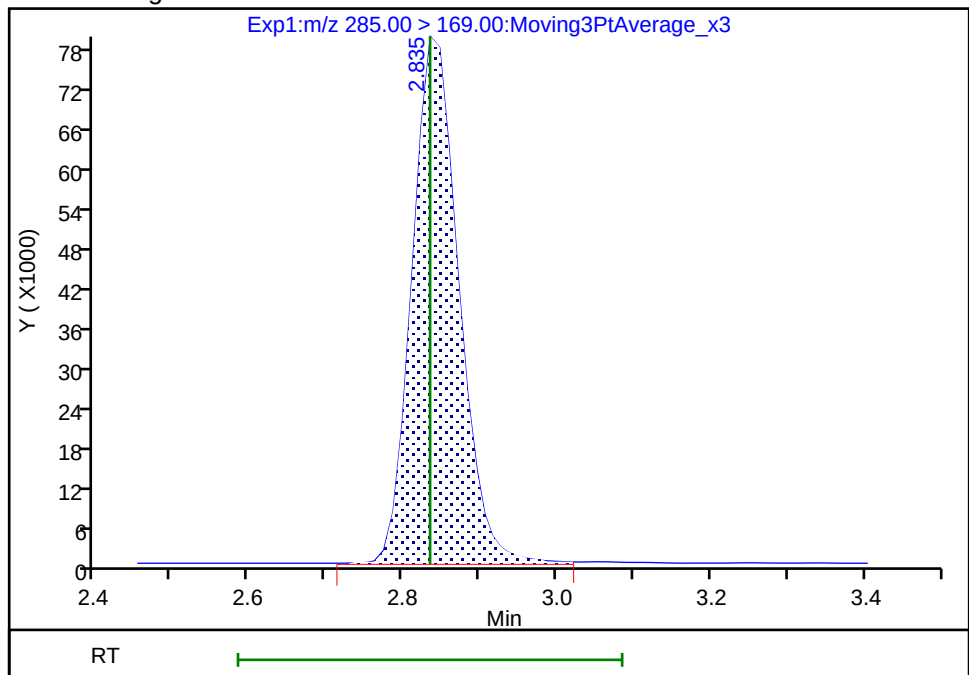
RT: 2.84
Area: 337778
Amount: 0.895893
Amount Units: ng/ml

Processing Integration Results



RT: 2.84
Area: 336409
Amount: 0.892262
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

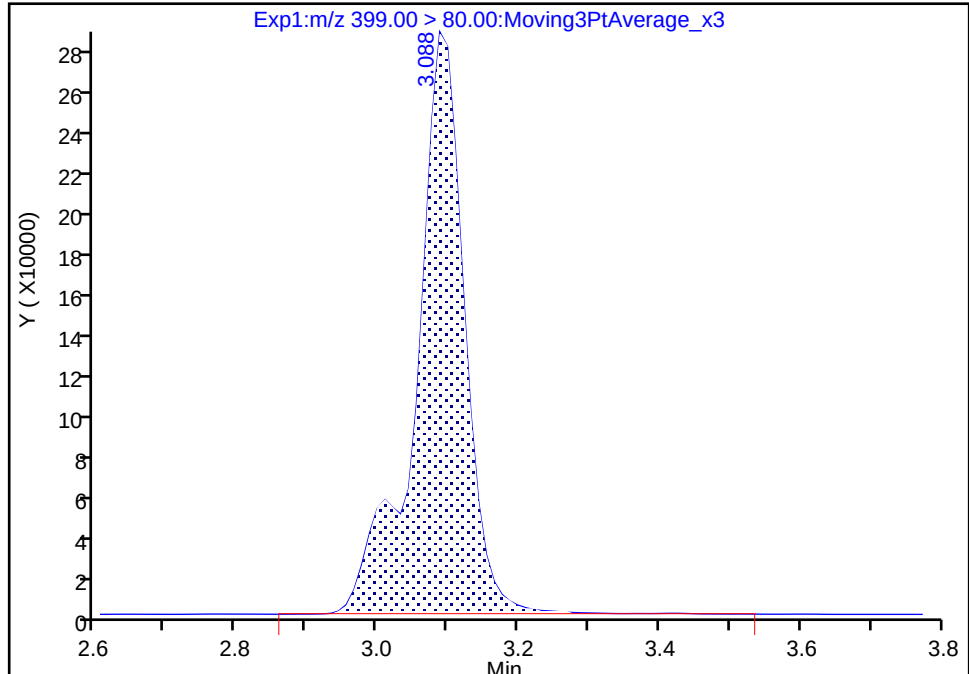
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Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

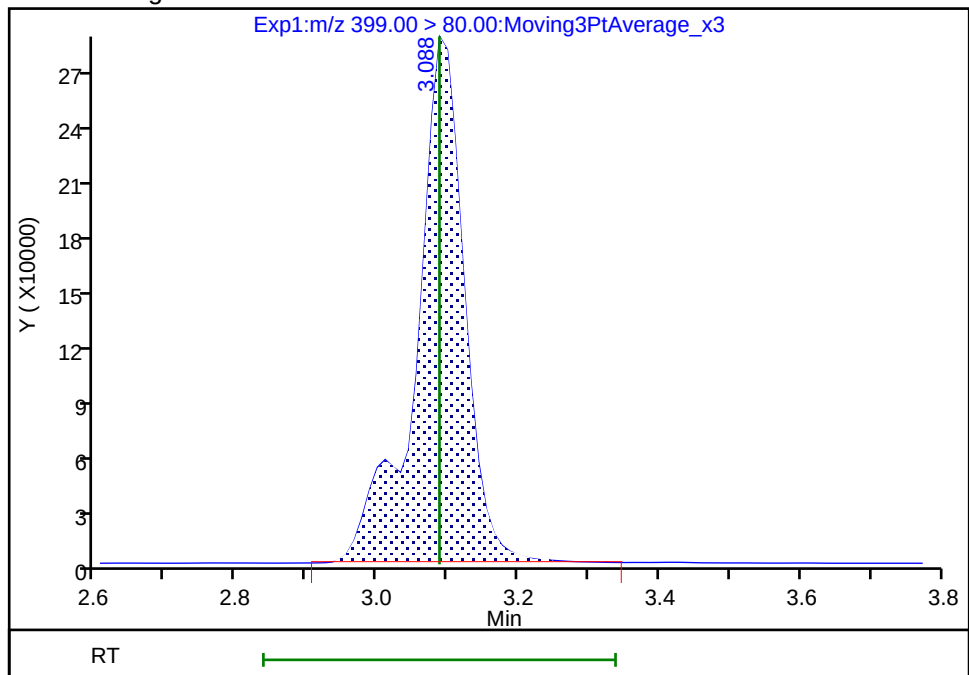
RT: 3.09
Area: 1388667
Amount: 0.817344
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1381248
Amount: 0.812978
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

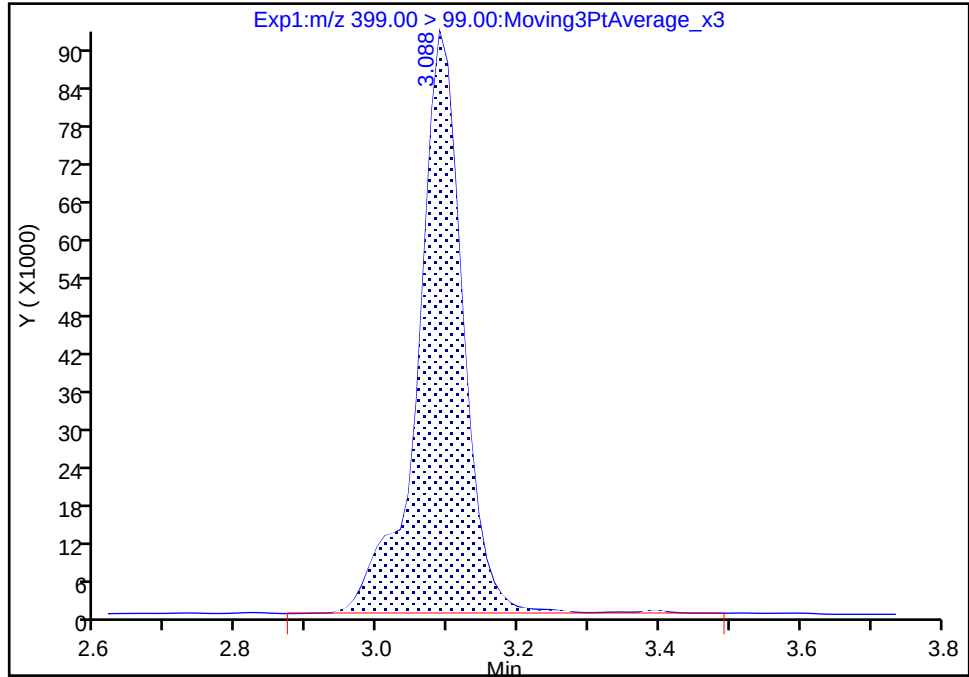
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Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

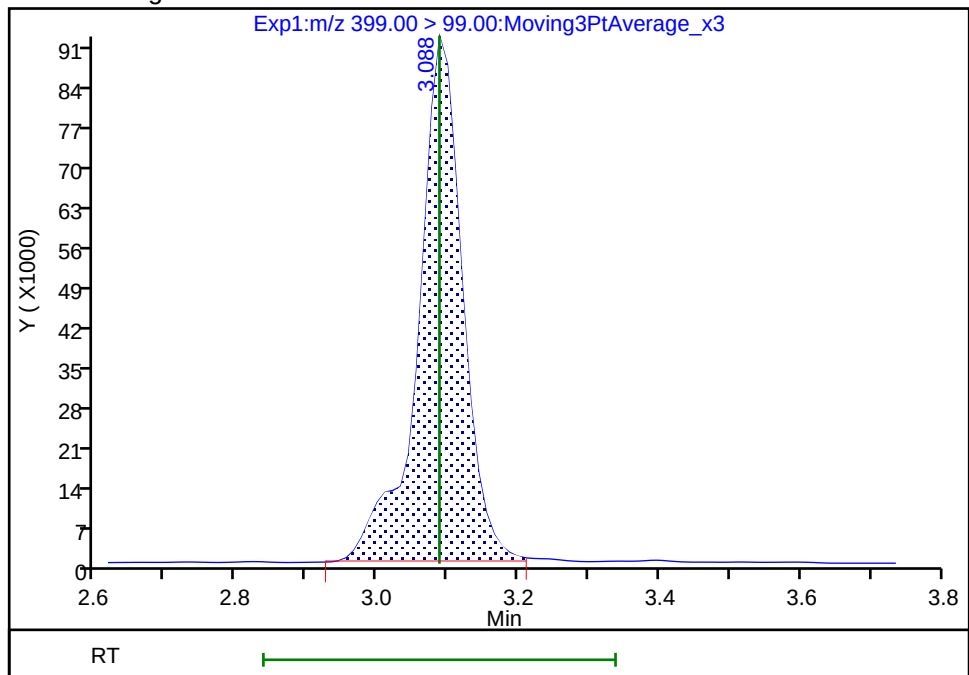
RT: 3.09
Area: 413974
Amount: 0.817344
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 407861
Amount: 0.812978
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

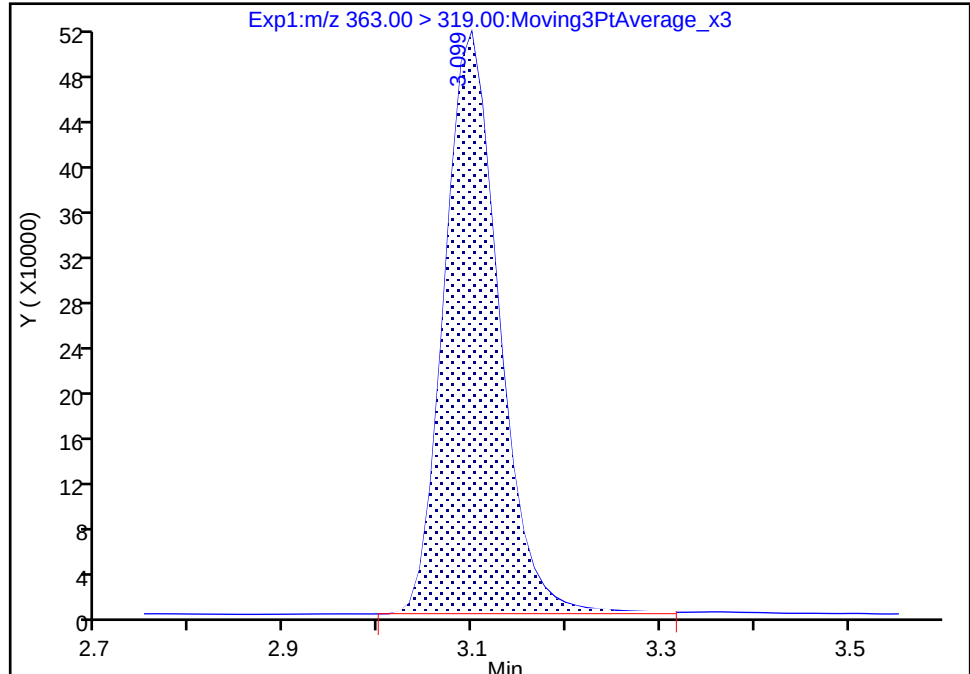
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Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

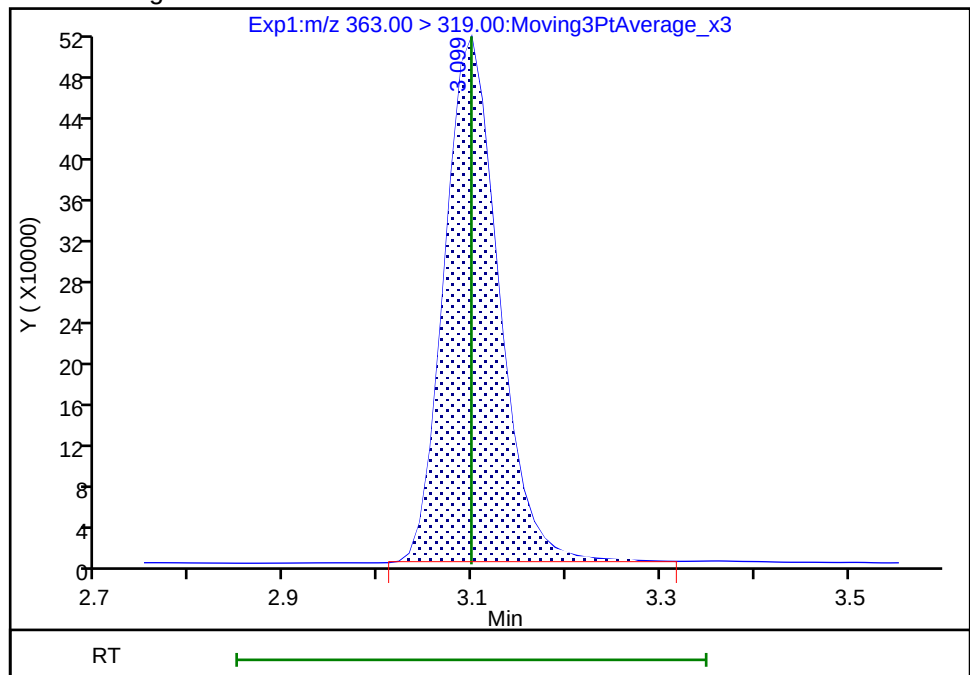
RT: 3.10
Area: 2065437
Amount: 0.937430
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 2059397
Amount: 0.934689
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

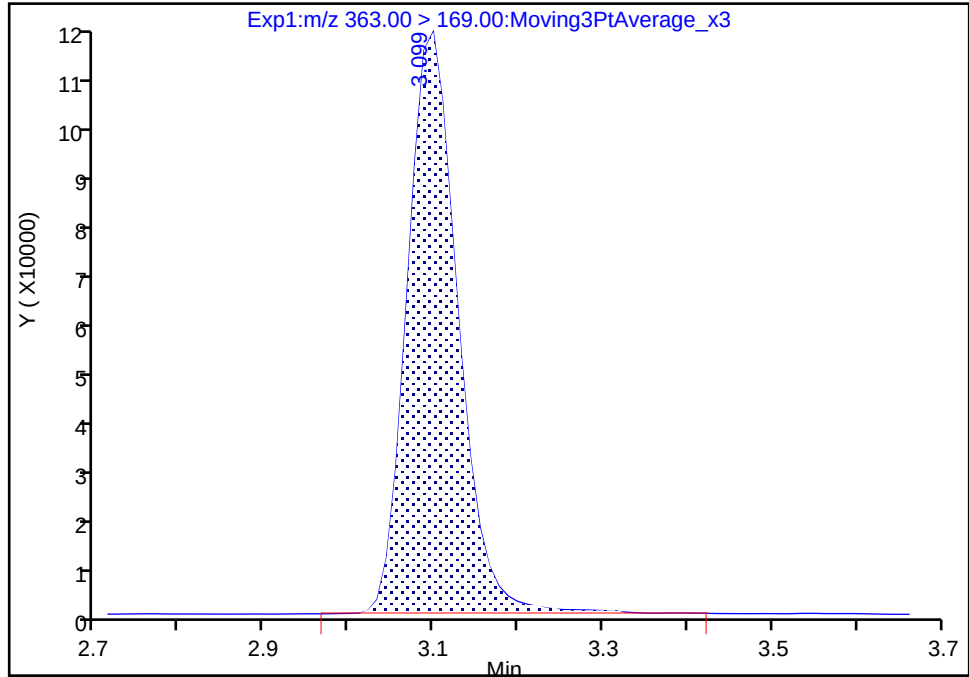
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

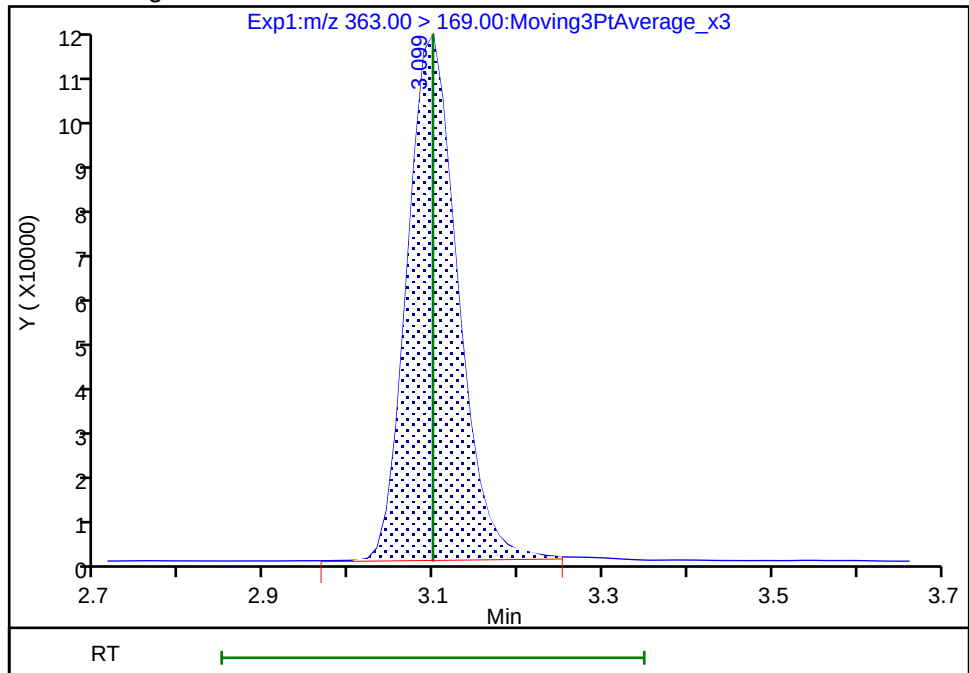
RT: 3.10
Area: 497745
Amount: 0.937430
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 494334
Amount: 0.934689
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

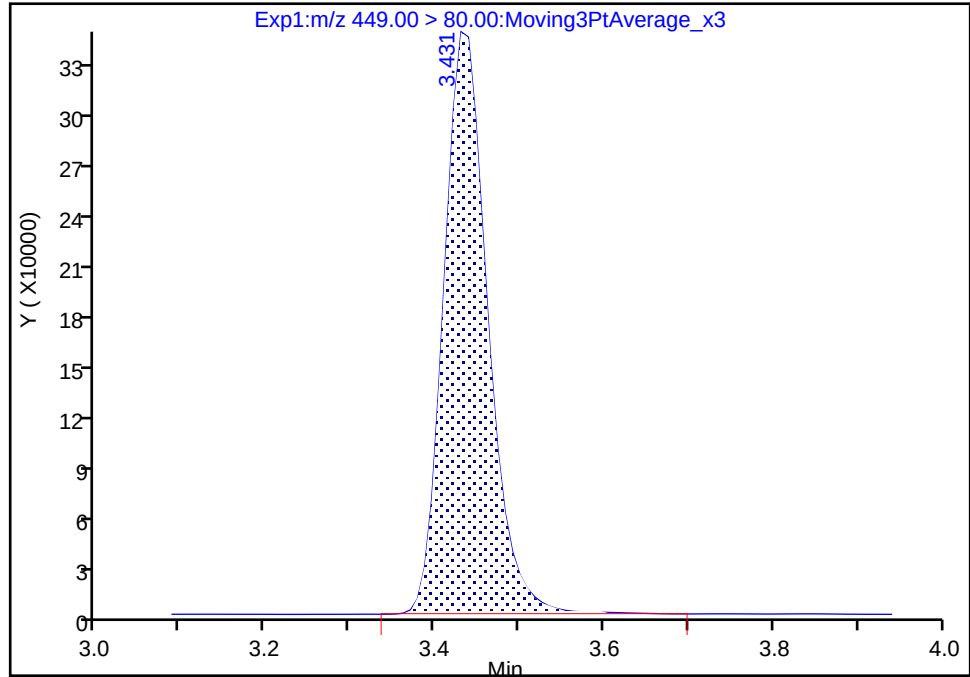
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

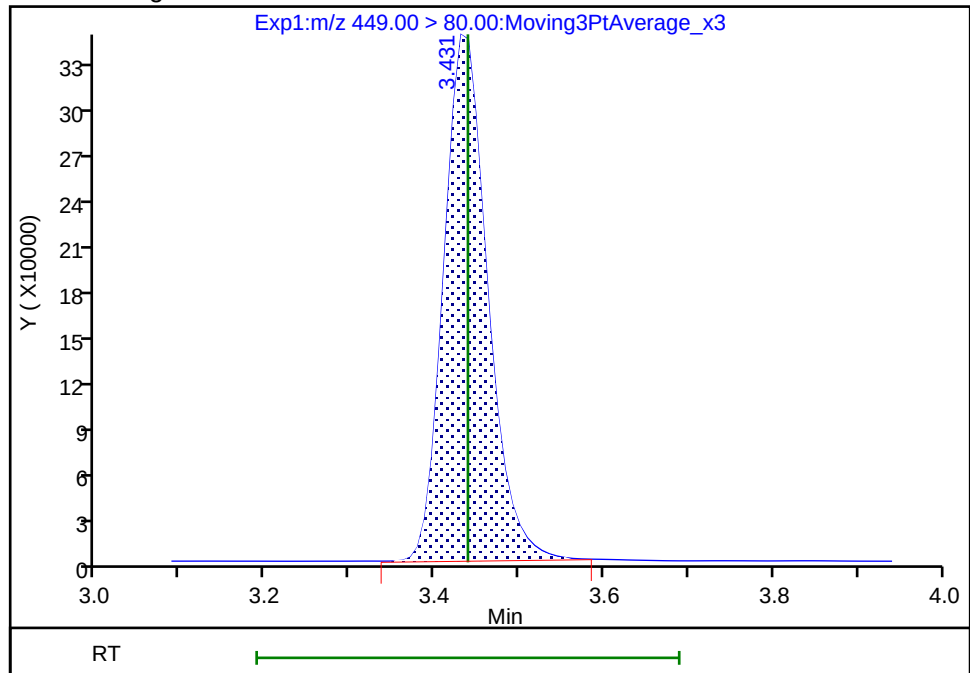
RT: 3.43
Area: 1262175
Amount: 0.906617
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1258758
Amount: 0.904163
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

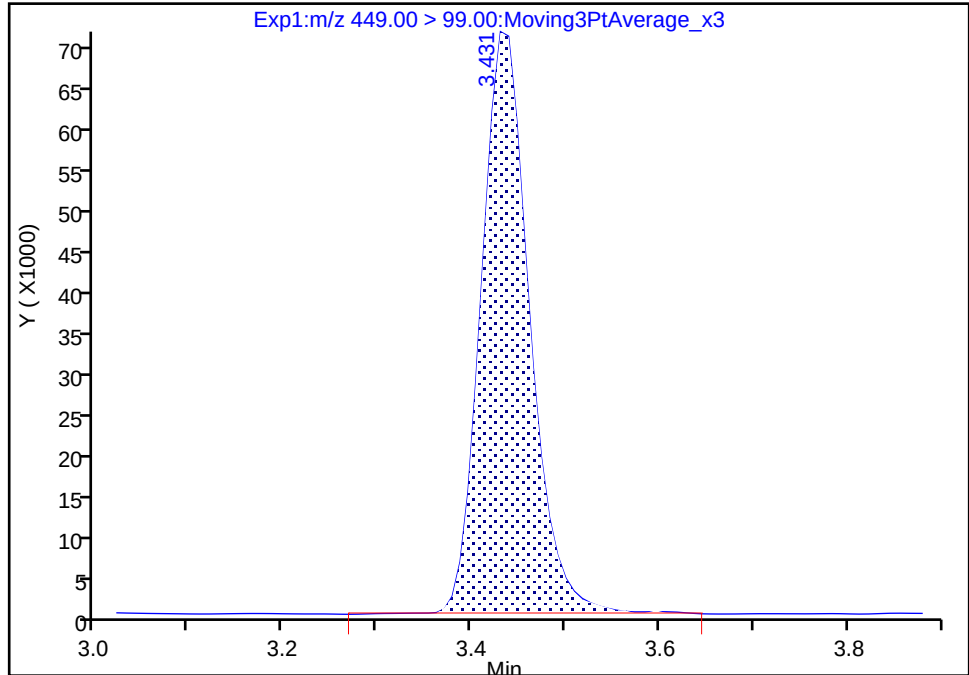
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

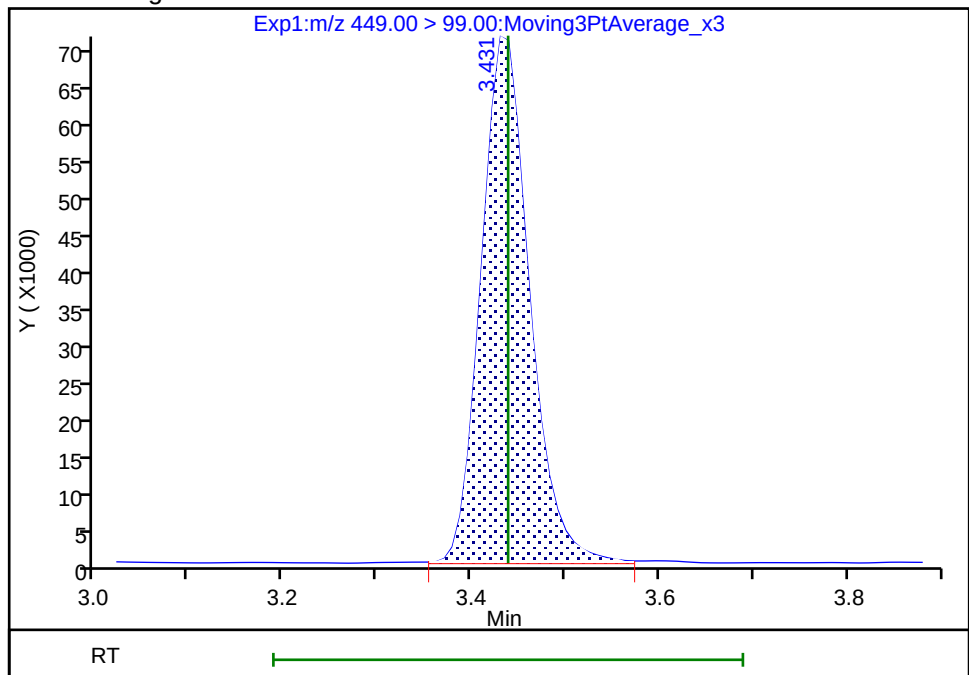
RT: 3.43
Area: 257373
Amount: 0.906617
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 256106
Amount: 0.904163
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

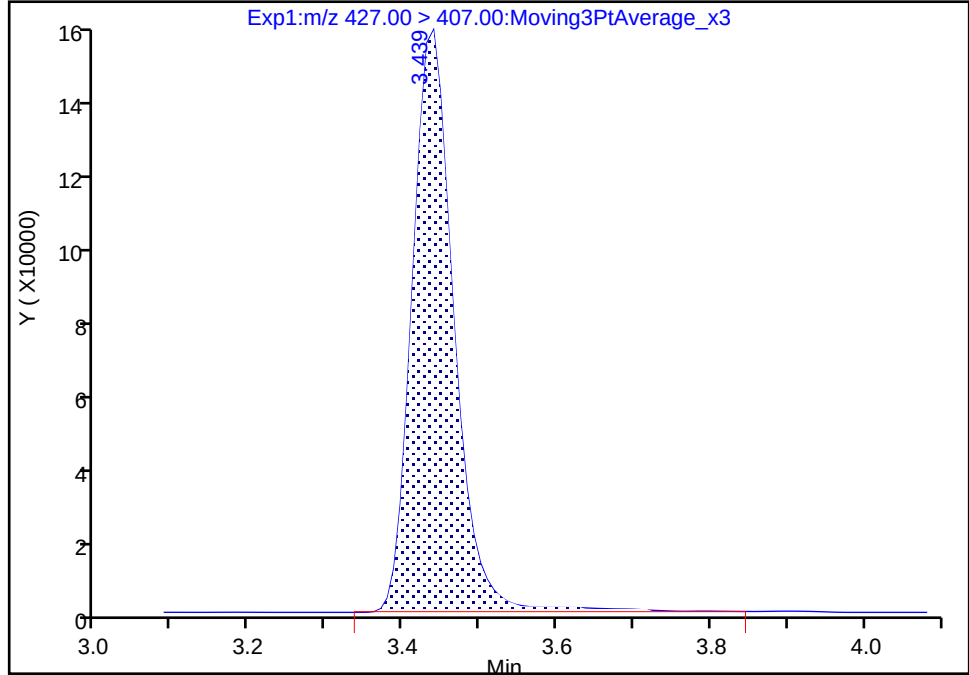
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

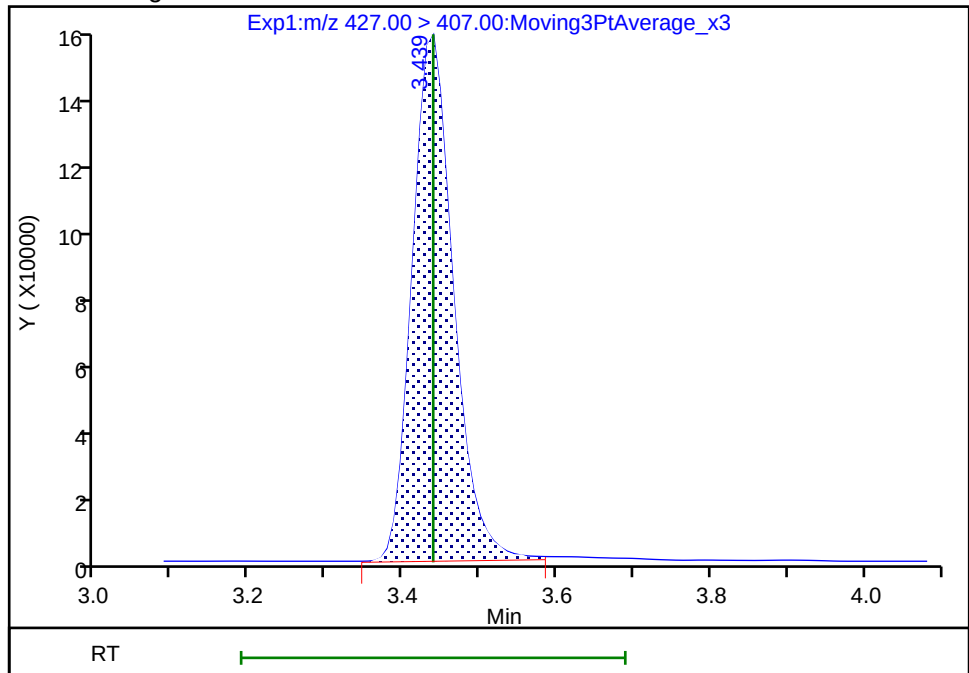
RT: 3.44
Area: 587874
Amount: 0.982785
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 579112
Amount: 0.967960
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:36:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

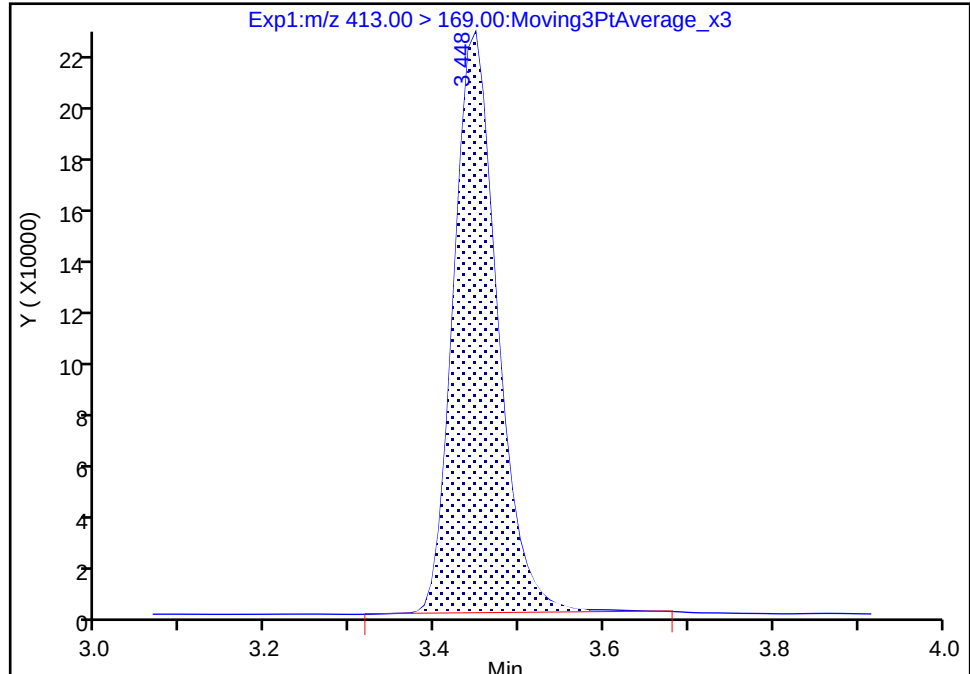
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

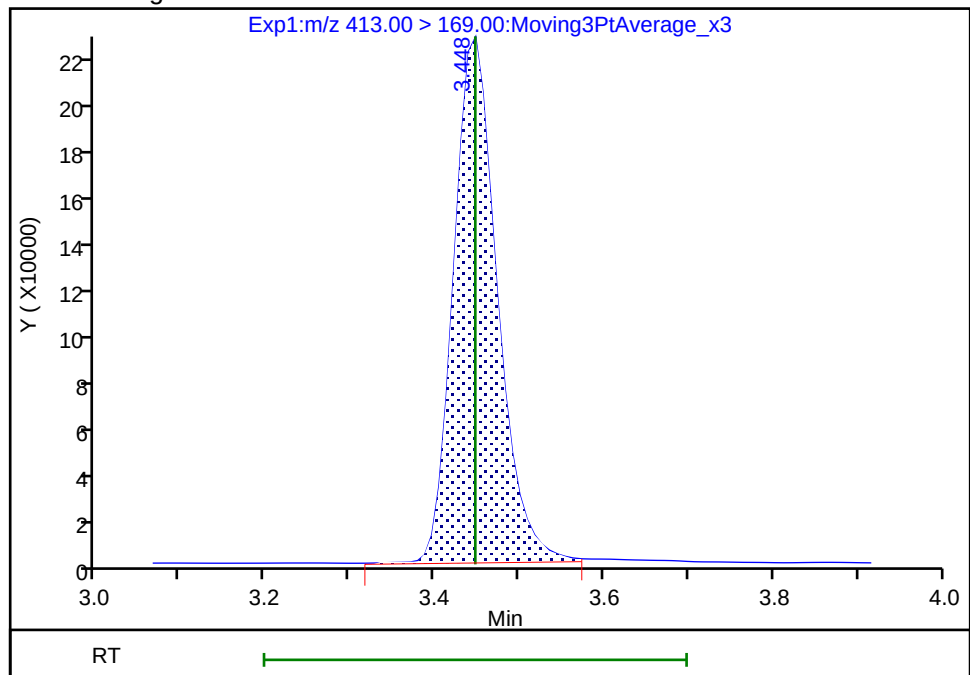
RT: 3.45
Area: 805471
Amount: 0.889347
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 804451
Amount: 0.889347
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:37:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

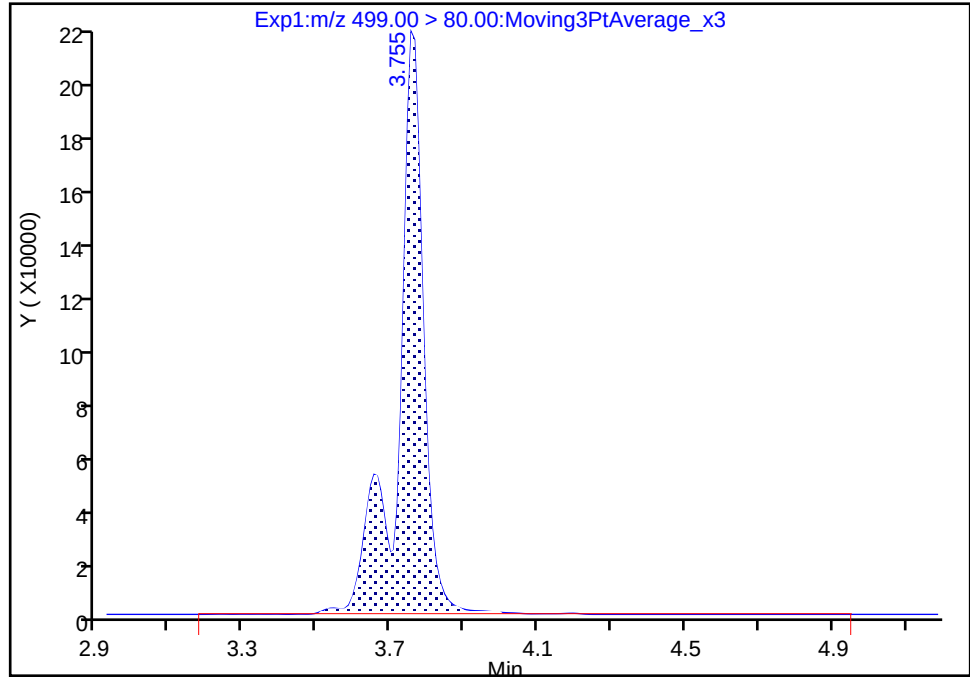
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

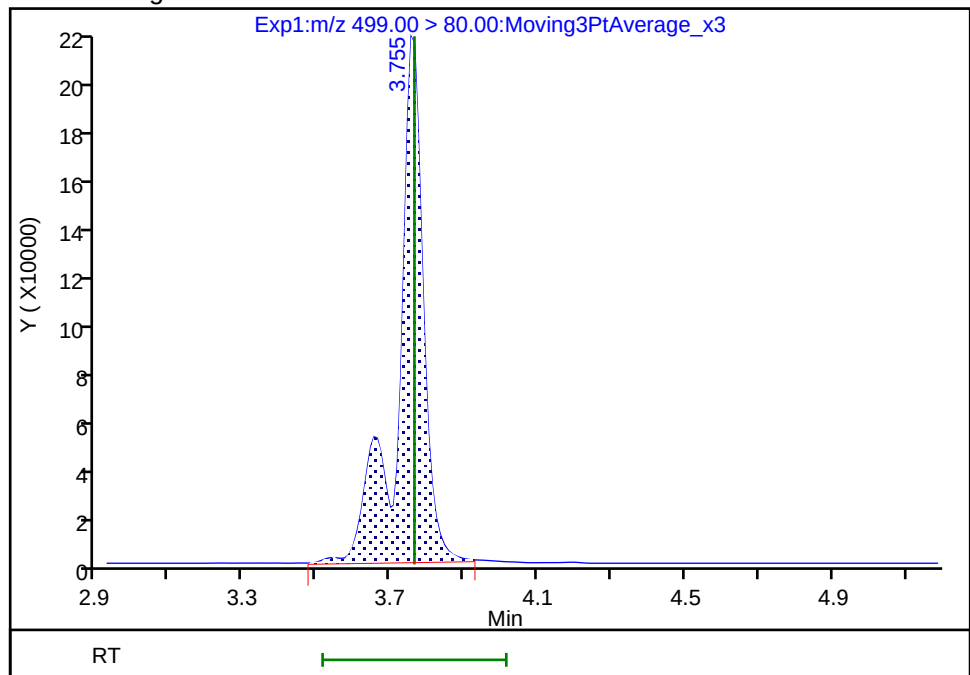
RT: 3.75
Area: 1031581
Amount: 0.851007
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1018064
Amount: 0.839856
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:37:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

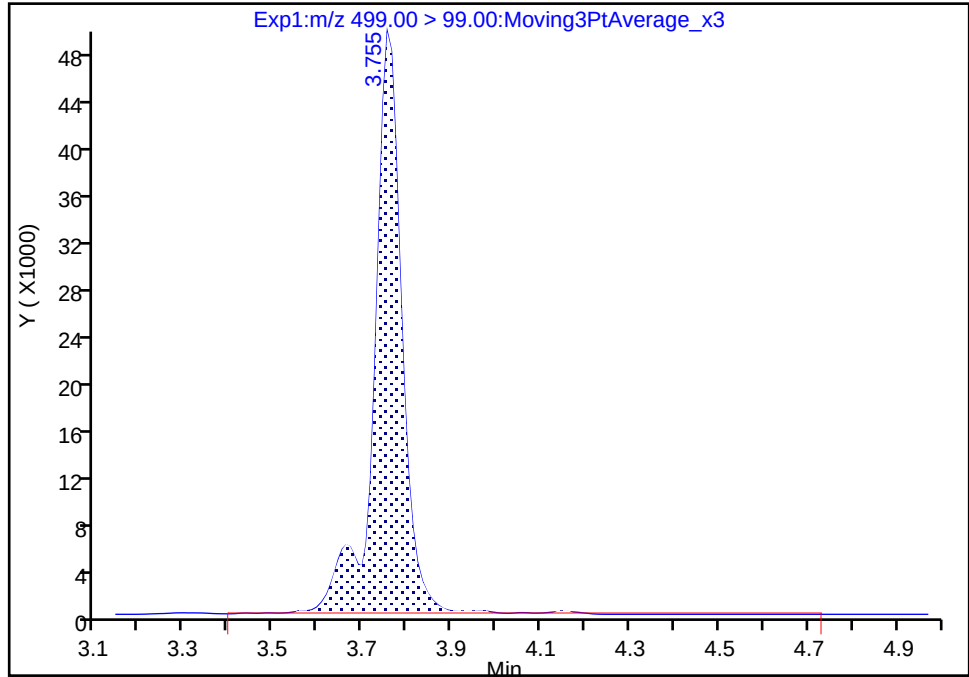
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

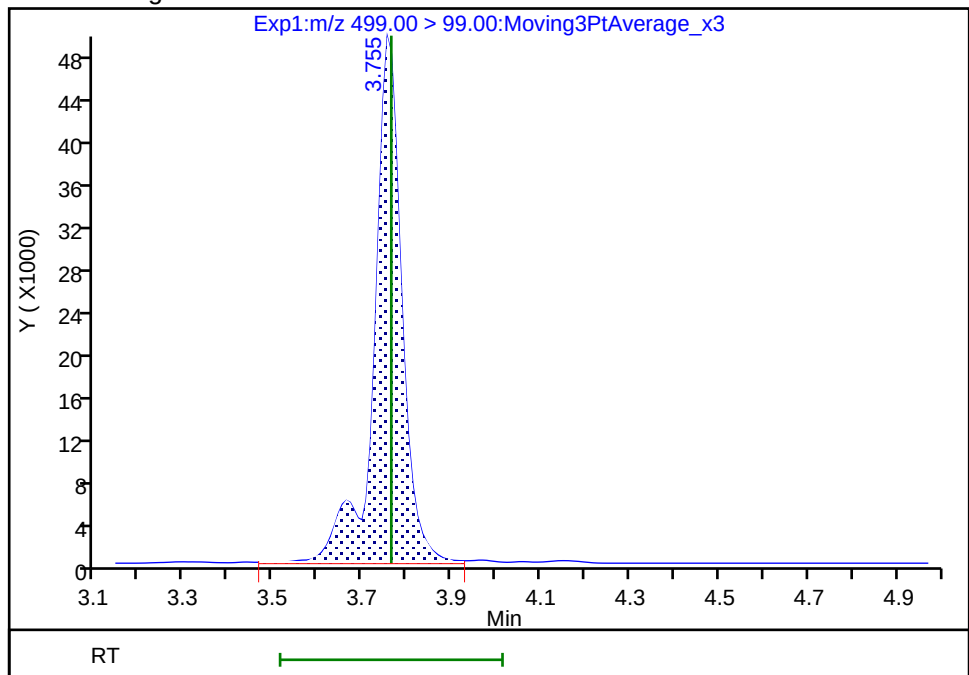
RT: 3.75
Area: 221303
Amount: 0.851007
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 216390
Amount: 0.839856
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 08:14:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

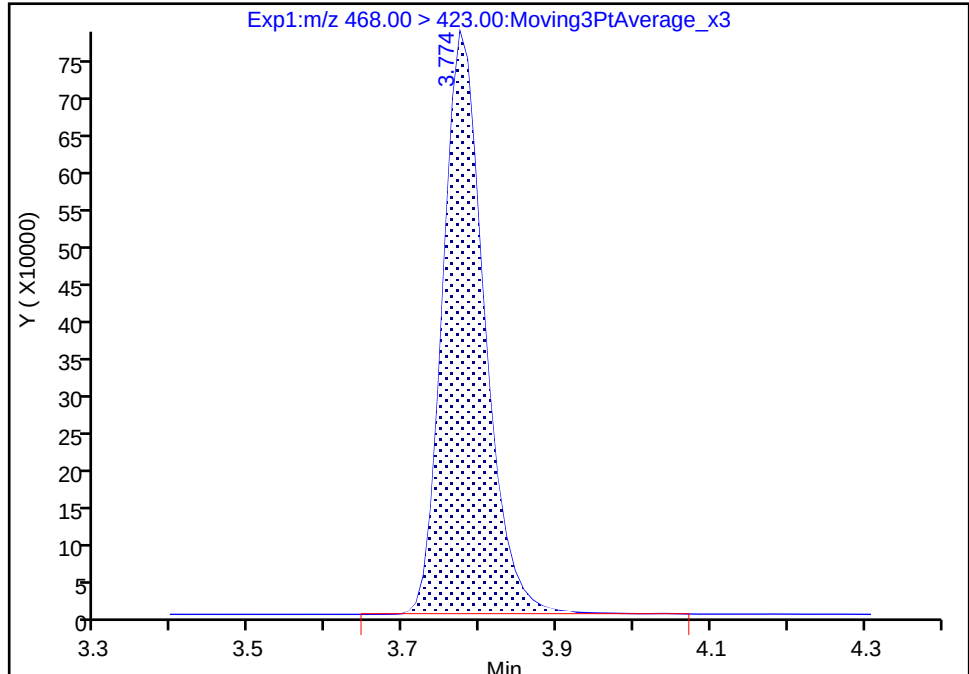
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

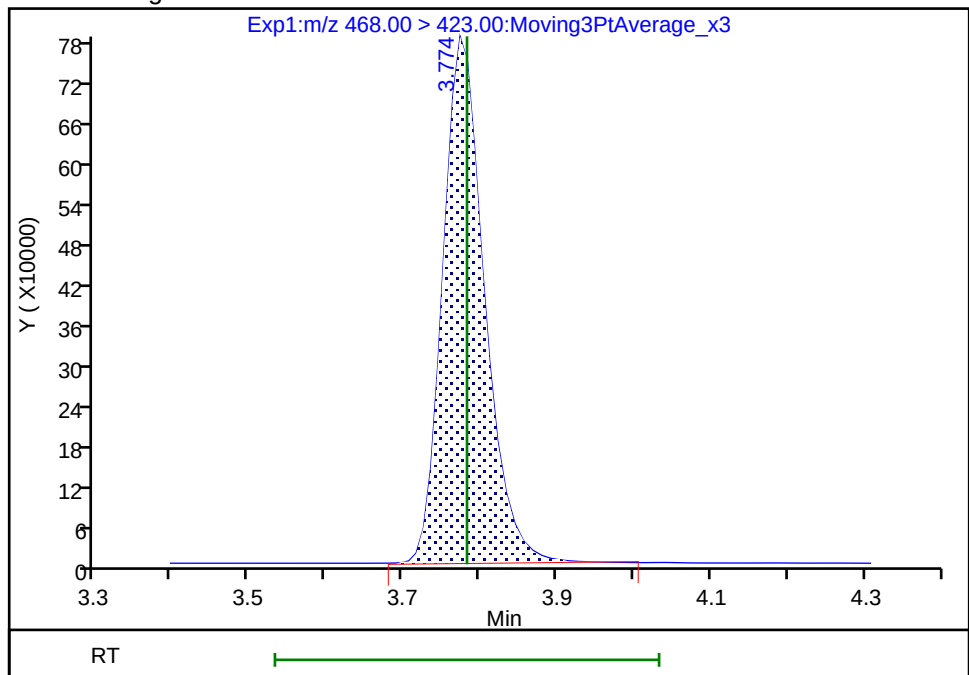
RT: 3.77
Area: 2964058
Amount: 1.260061
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 2955786
Amount: 1.256544
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:35:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

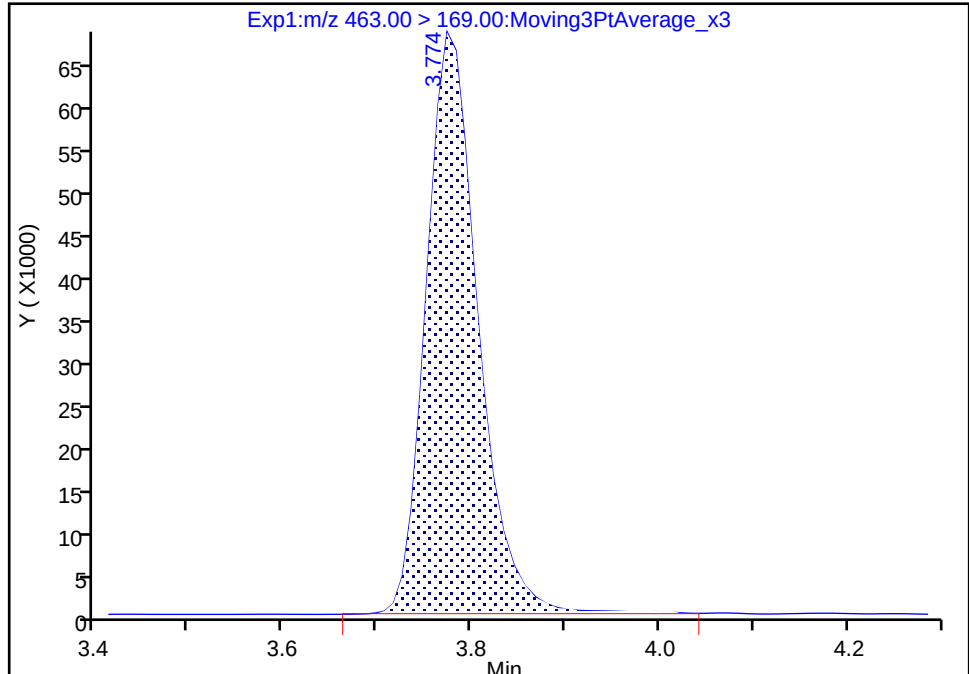
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

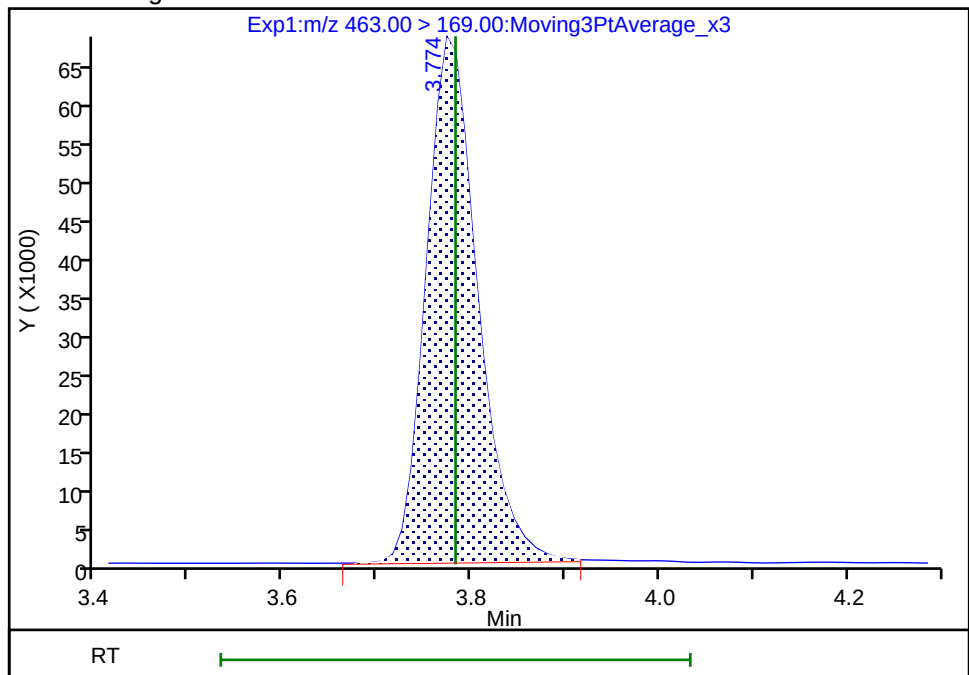
RT: 3.77
Area: 262173
Amount: 0.893561
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 260602
Amount: 0.893561
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:37:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

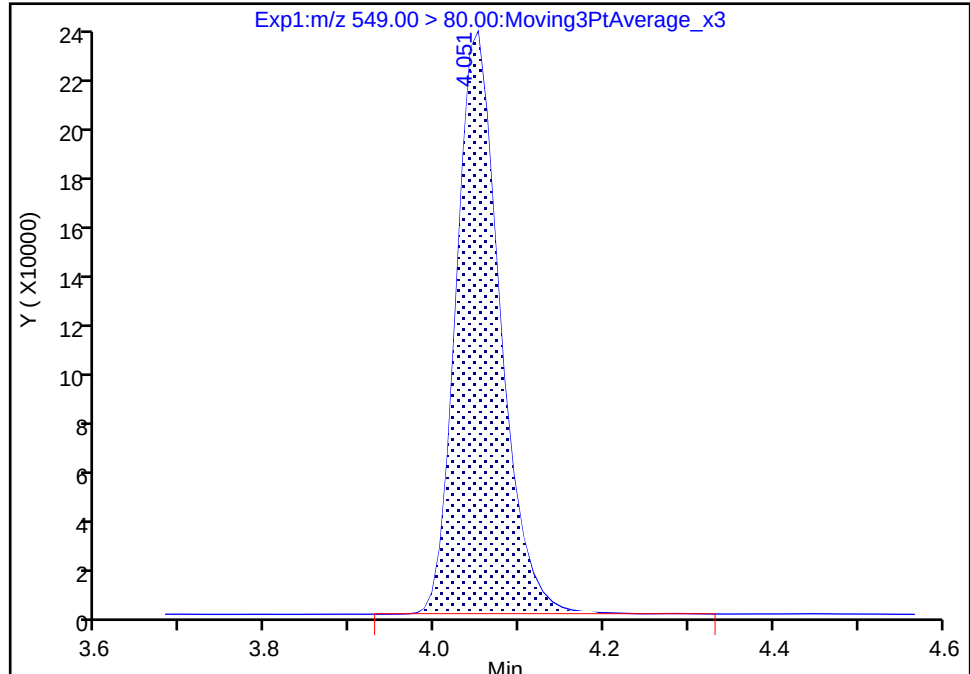
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

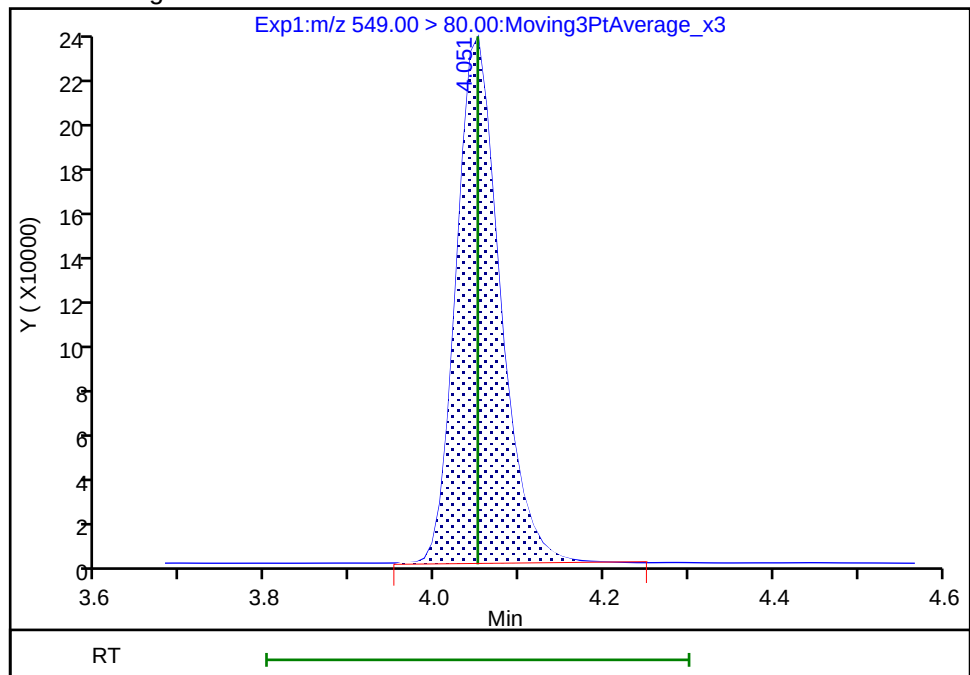
RT: 4.05
Area: 831643
Amount: 0.908973
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 829619
Amount: 0.906761
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:37:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

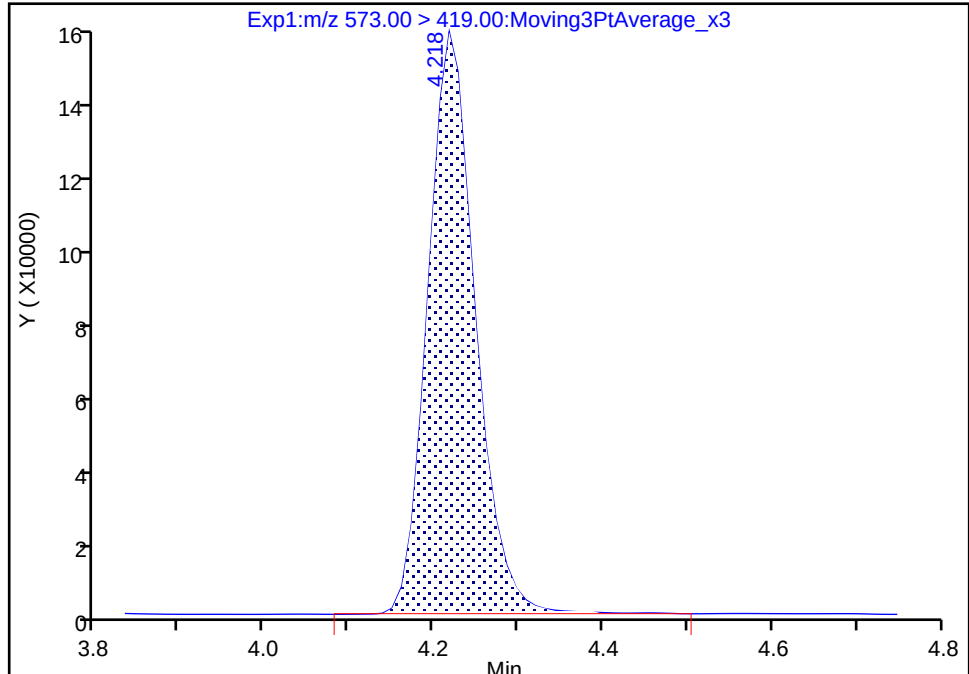
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

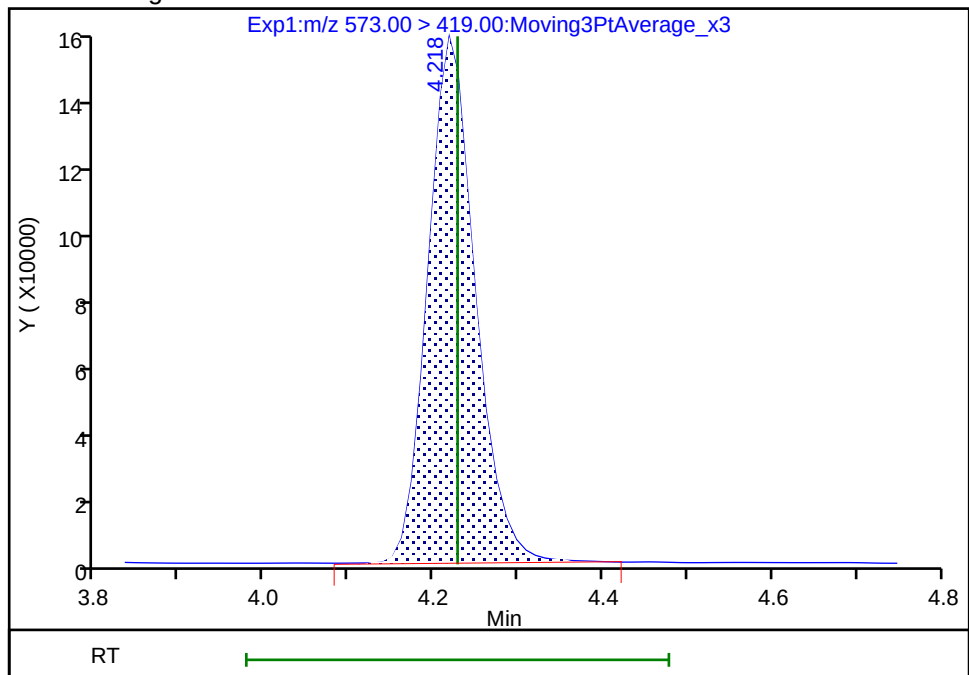
RT: 4.22
Area: 587892
Amount: 1.204534
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 587125
Amount: 1.202962
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:35:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

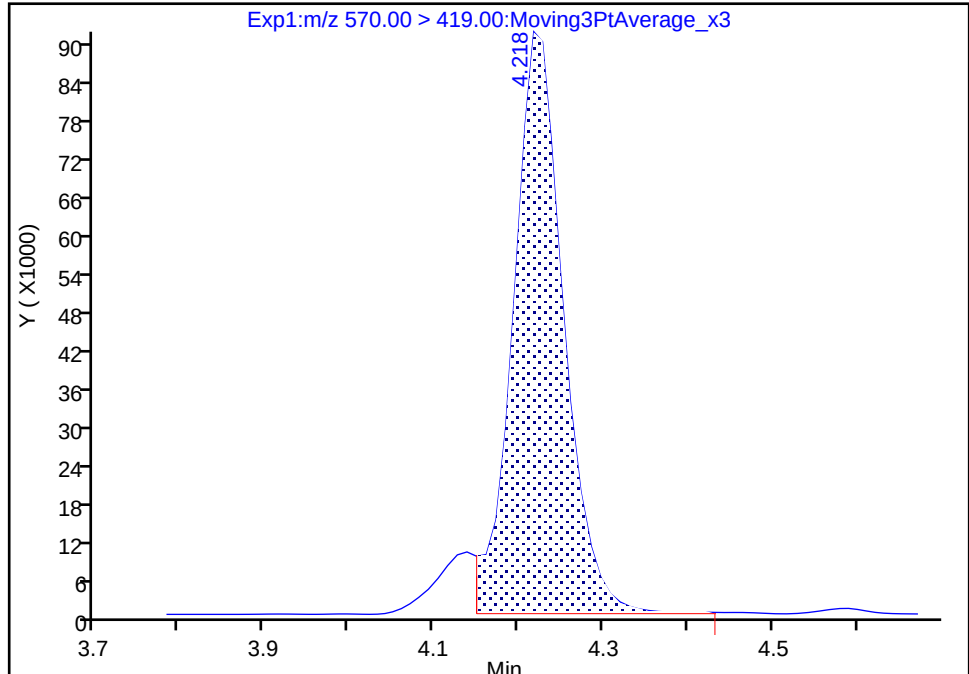
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

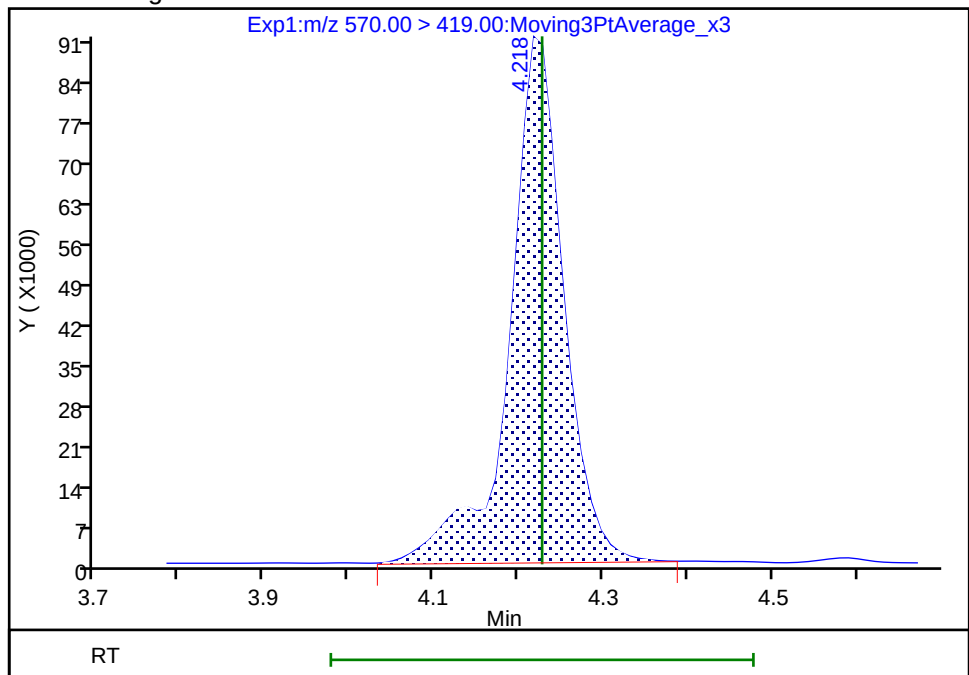
RT: 4.22
Area: 375698
Amount: 0.918188
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 406261
Amount: 0.993829
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:38:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

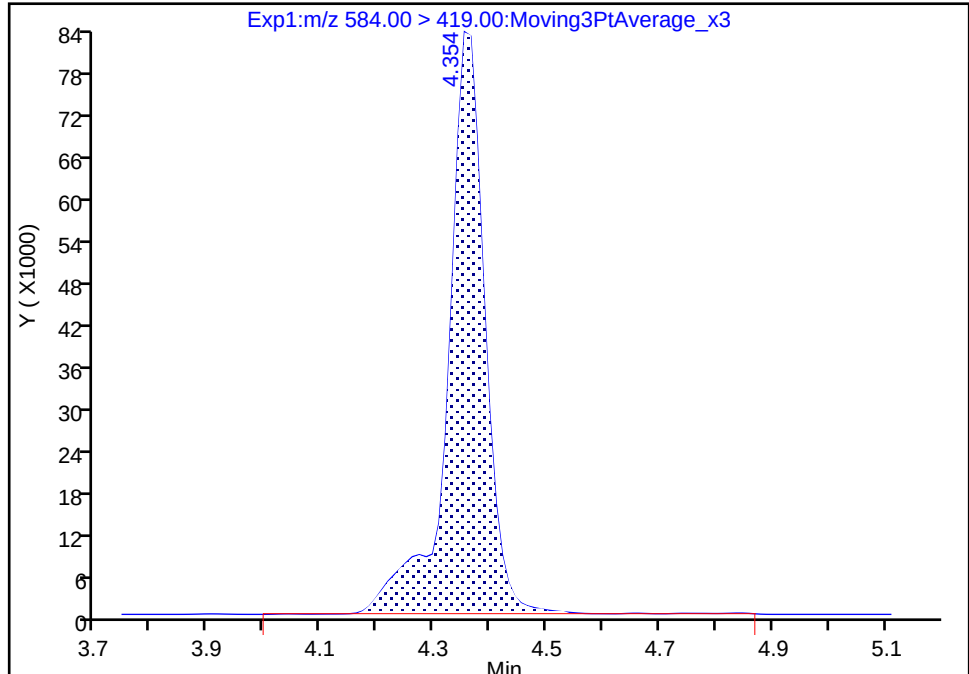
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

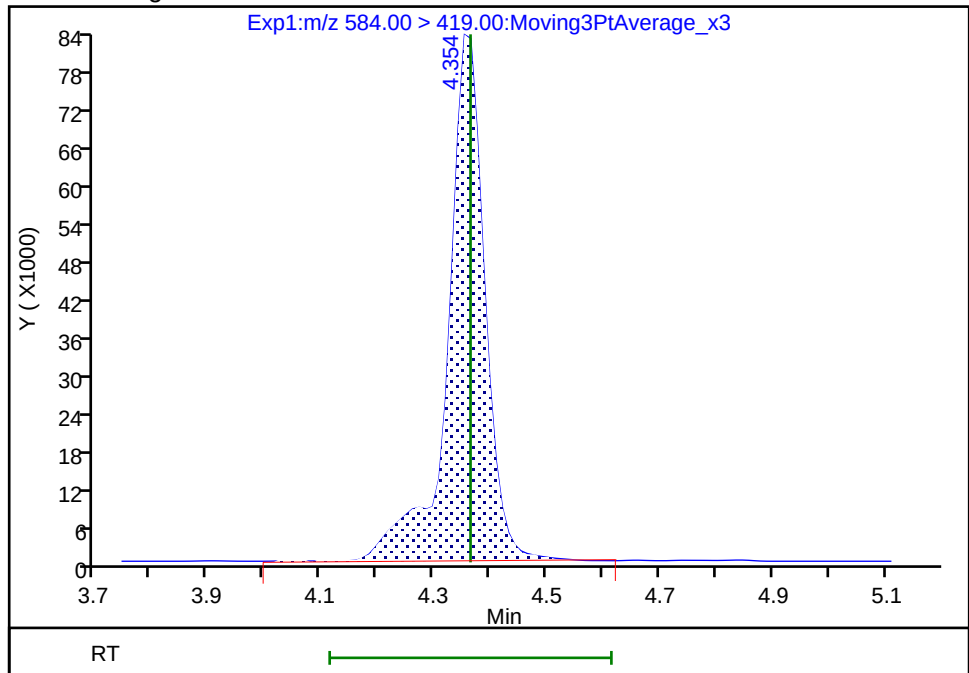
RT: 4.35
Area: 386384
Amount: 0.920401
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 384955
Amount: 0.916997
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:38:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

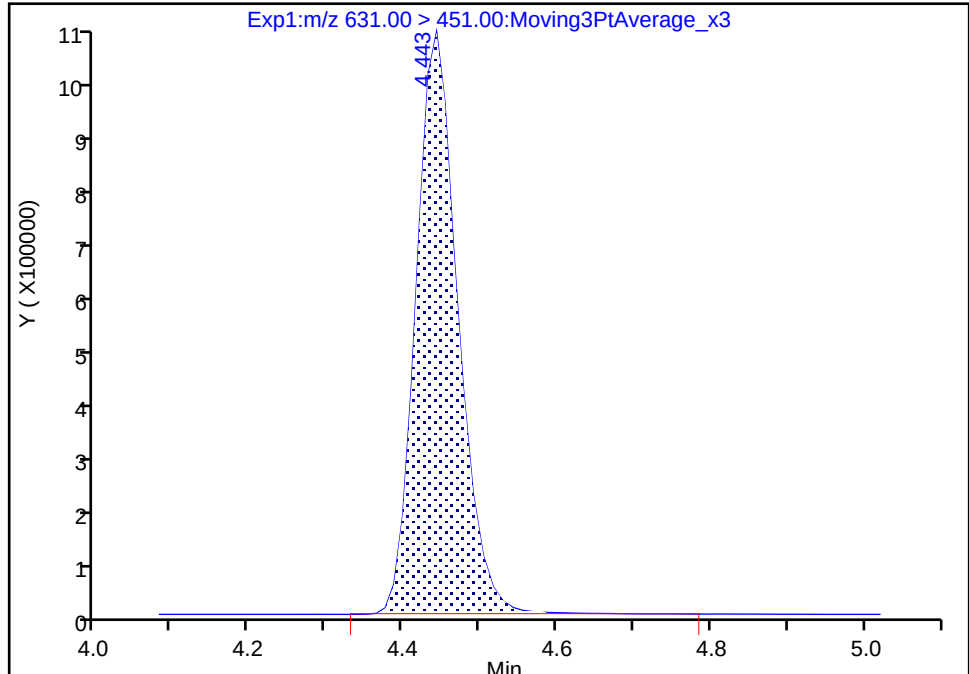
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

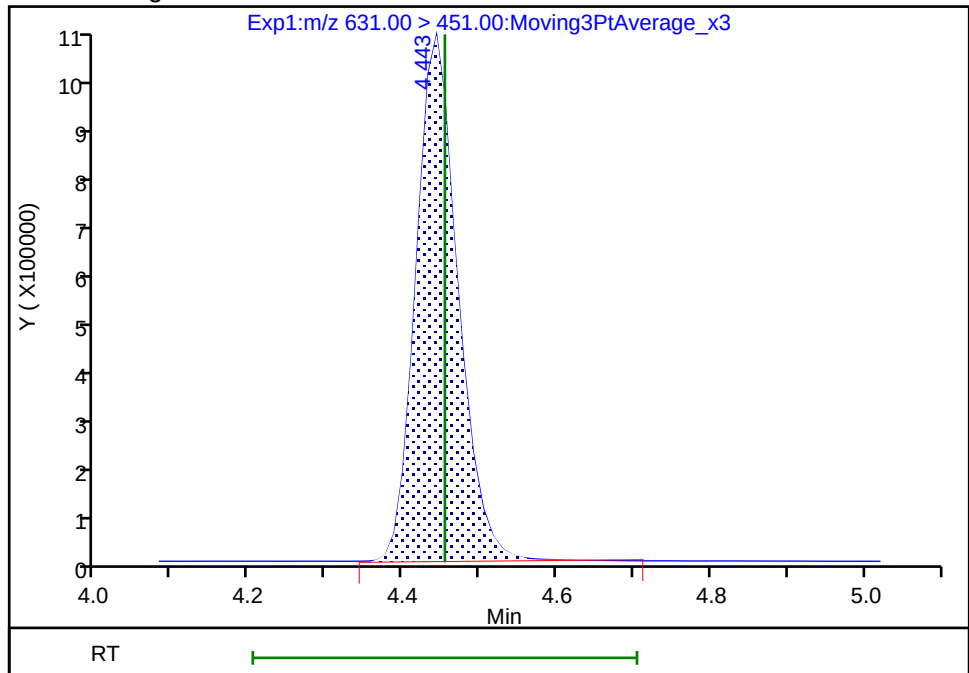
RT: 4.44
Area: 4055717
Amount: 0.945692
Amount Units: ng/ml

Processing Integration Results



RT: 4.44
Area: 4049231
Amount: 0.944180
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:38:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

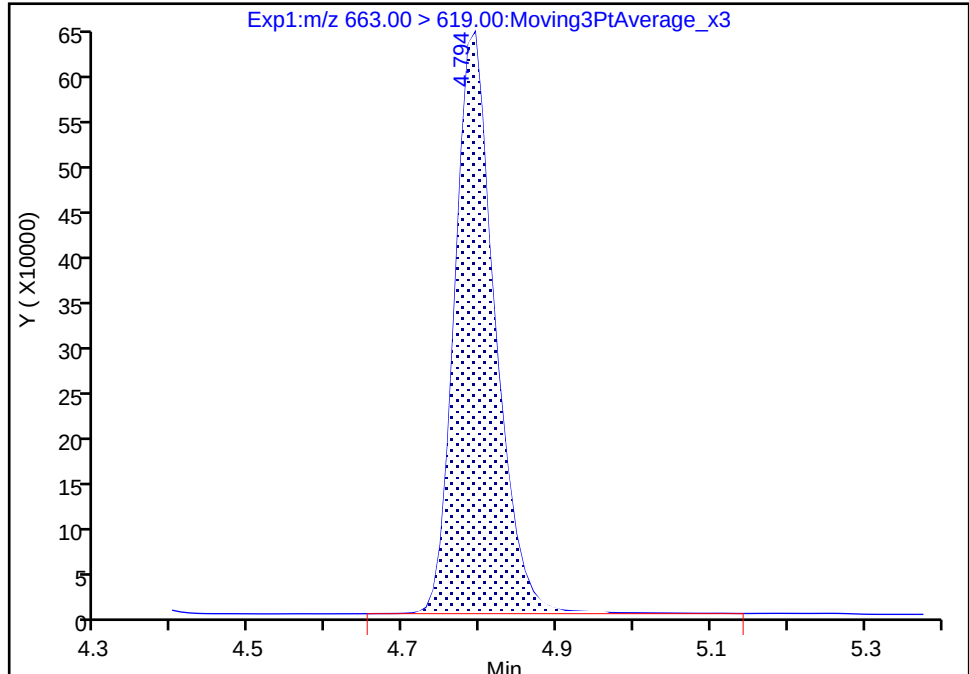
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

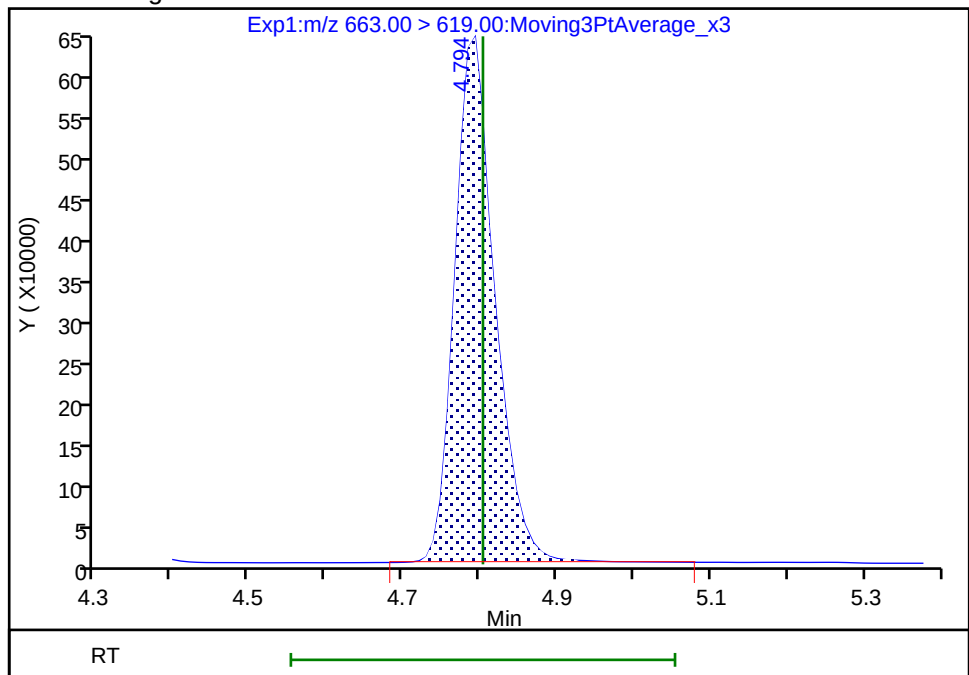
RT: 4.79
Area: 2320036
Amount: 0.944957
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 2315263
Amount: 0.943013
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:38:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

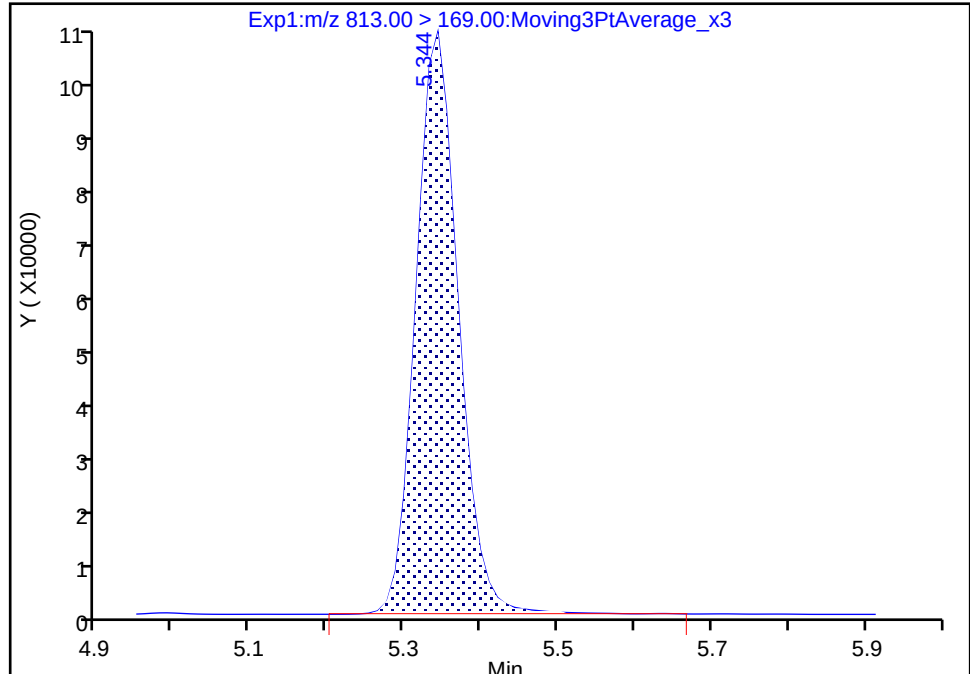
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

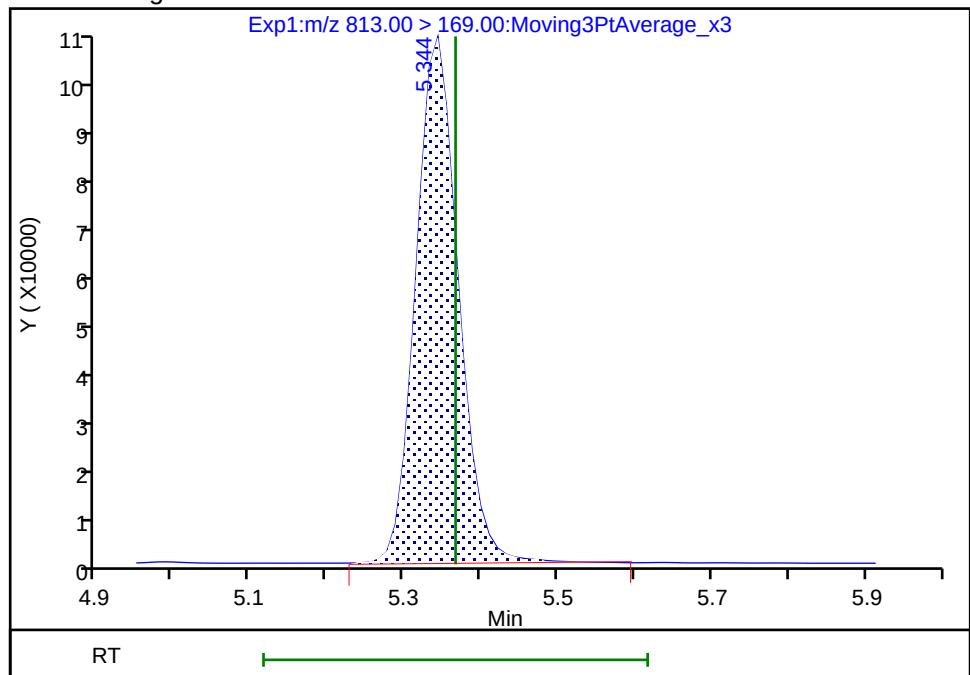
RT: 5.34
Area: 389954
Amount: 0.968598
Amount Units: ng/ml

Processing Integration Results



RT: 5.34
Area: 389189
Amount: 0.968598
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:38:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

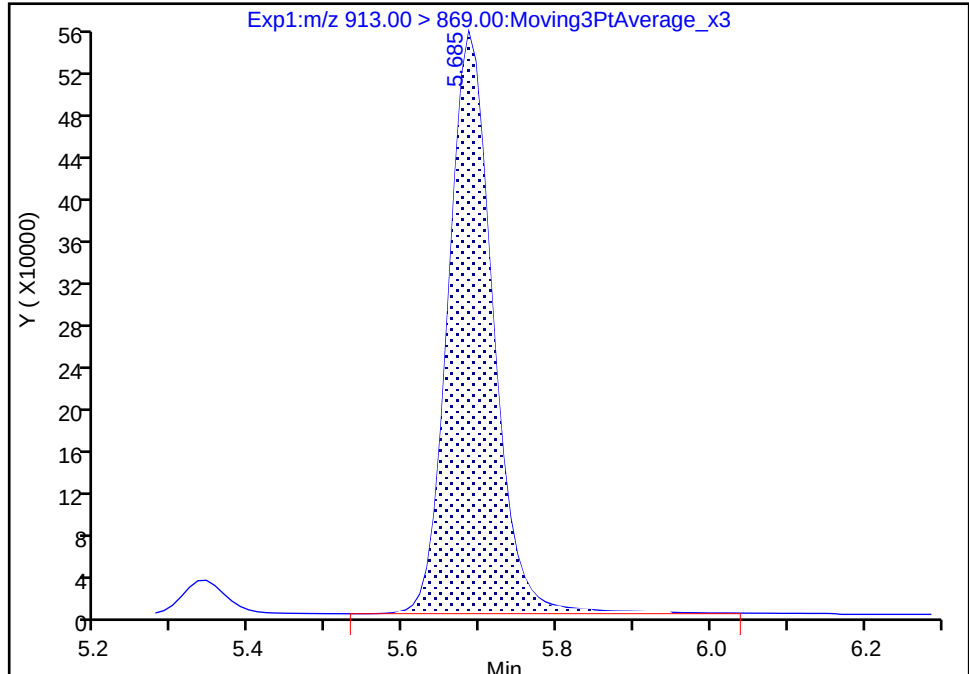
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A10.d
Injection Date: 05-Jan-2023 16:03:01 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

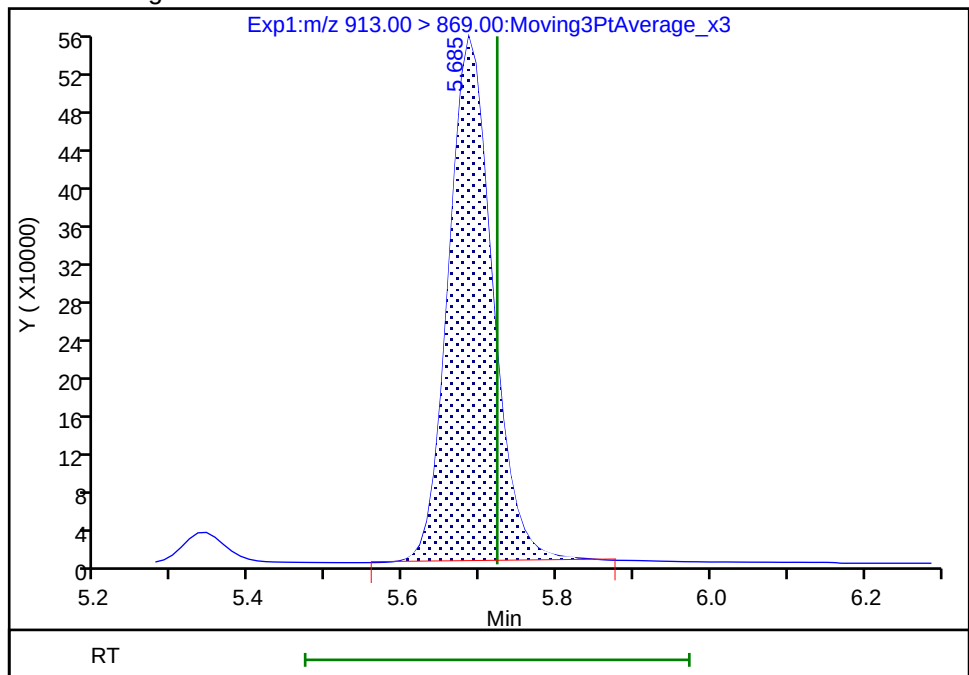
RT: 5.69
Area: 2241998
Amount: 0.988749
Amount Units: ng/ml

Processing Integration Results



RT: 5.69
Area: 2211716
Amount: 0.975394
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:38:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCV 200-187284/22 Calibration Date: 01/05/2023 17:41

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230105A22.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9151		2.22	2.50	-11.3	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.016		2.33	2.50	-6.8	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.028		1.99	2.21	-10.1	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.919		2.21	2.34	-5.3	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.006		2.31	2.50	-7.7	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.167		2.05	2.35	-12.6	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9938		2.35	2.50	-5.9	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9791		2.25	2.50	-10.1	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.033		2.08	2.28	-8.4	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.177		2.21	2.36	-6.0	
6:2 FTS	L1ID		2.169		2.42	2.37	2.2	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.356		2.31	2.38	-2.9	
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.024		2.39	2.50	-4.2	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.097		2.09	2.32	-9.8	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9108		2.20	2.50	-12.2	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.726		2.28	2.33	-2.3	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8535		2.23	2.40	-7.0	
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.019		2.35	2.50	-6.0	
8:2 FTS	AveID	1.617	1.670		2.47	2.40	3.3	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9496		2.27	2.50	-9.1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8812		2.55	2.50	2.0	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6660		2.22	2.41	-8.1	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9199		2.28	2.50	-8.7	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8503		2.37	2.50	-5.0	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.208		2.30	2.36	-2.2	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9450		2.23	2.50	-10.8	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.720		4.27	2.41	77.0	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2918		2.30	2.42	-4.9	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCV 200-187284/22 Calibration Date: 01/05/2023 17:41

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230105A22.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	1.013	0.9636		2.38	2.50	-4.9	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1214		2.22	2.50	-11.3	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9000		2.43	2.50	-2.8	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8322		2.53	2.50	1.0	
13C4 PFBA	Ave	1.122	1.051		1.17	1.25	-6.3	
13C5 PFPeA	Ave	0.8543	0.7962		1.17	1.25	-6.8	
13C3 PFBS	Ave	0.9281	0.9150		1.15	1.16	-1.4	
M2-4:2 FTS	Ave	0.0820	0.0806		1.15	1.17	-1.7	
13C2 PFHxA	Ave	0.8951	0.8741		1.22	1.25	-2.3	
13C3 HFPO-DA	Ave	0.1580	0.1499		1.19	1.25	-5.1	
13C4 PFHpA	Ave	0.9206	0.9500		1.29	1.25	3.2	50.0
18O2 PFHxS	Ave	0.6761	0.6930		1.21	1.18	2.5	50.0
M2-6:2 FTS	Ave	0.1134	0.1338		1.40	1.19	18.0	
13C4 PFOA	Ave	1.035	1.047		1.27	1.25	1.2	50.0
13C4 PFOS	Ave	0.4588	0.4439		1.16	1.20	-3.2	50.0
13C5 PFNA	Ave	1.006	1.151		1.43	1.25	14.4	50.0
13C2 PFDA	Ave	1.025	1.211		1.48	1.25	18.1	
M2-8:2 FTS	Ave	0.1387	0.2347		2.03	1.20	69.3	
13C8 FOSA	Ave	0.8403	0.8212		1.22	1.25	-2.3	
d3-NMeFOSAA	Ave	0.2087	0.3052		1.83	1.25	46.2	
13C2 PFUnA	Ave	0.9385	1.159		1.54	1.25	23.5	
d5-NEtFOSAA	Ave	0.2055	0.3524		2.14	1.25	71.5	
13C2 PFDoA	Ave	0.9562	1.200		1.57	1.25	25.5	
13C2 PFTeDA	Ave	0.8270	1.029		1.56	1.25	24.4	
13C2 PFHxDA	Ave	1.022	1.090		1.33	1.25	6.6	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Jan-2023 17:41:07 ALS Bottle#: 19 Worklist Smp#: 22
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0053906-022 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:19:30 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 12:44:35

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										M
217.00 > 172.00	2.093	2.076	0.017	0.609	2937211	1.17		93.7	6706	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.000	5375440	2.22		88.7	542	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.694	2225882	1.17		93.2	2755	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.387	0.013	1.006	4523270	2.33		93.2	115	
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.400	0.013	0.702	2378930	1.15		98.6	168686	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.000	4649047	1.99	Target=2.09	89.9	3038	M
298.90 > 99.00	2.413	2.400	0.013	1.000	2254703		2.06(1.04-3.13)		1184	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.701	2.689	0.012	1.000	1228400	2.21		94.7	2172	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.701	2.689	0.012	0.786	210412	1.15		98.3	170	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.793	2443602	1.22		97.7	6448	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	4914104	2.31	Target=14.25	92.3	666	M
313.00 > 119.00	2.725	2.725	0.0	1.000	338018		14.54(7.12-21.37)		532	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	4240230	2.05	Target=3.04	87.4	2784	
349.00 > 99.00	2.737	2.737	0.0	0.887	1486634		2.85(1.52-4.56)		1784	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	832690	2.35		94.1	2138	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	2.835	2.835	0.0	0.825	418954	1.19		94.9	1682	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.898	1832640	1.21		102	2897	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.087	3.088	-0.001	1.000	3643708	2.08	Target=3.66	91.6	2776	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	1052014		3.46(1.83-5.49)		794	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.898	2655700	1.29		103	4883	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.087	3.099	-0.012	1.000	5200535	2.25	Target=3.97	89.9	657	M
363.00 > 169.00	3.087	3.099	-0.012	1.000	1311093		3.97(1.98-5.95)		1692	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.834	12101942	2.21	Target=3.16	94.0	6370	
377.00 > 85.00	3.132	3.132	0.0	0.834	3964400		3.05(1.58-4.73)		4296	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.429	3.439	-0.010	0.997	355306	1.40		118	574	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.429	3.439	-0.010	1.000	1538053	2.42		102	852	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.429	3.439	-0.010	0.914	3204561	2.31	Target=5.14	97.1	3313	M
449.00 > 99.00	3.429	3.439	-0.010	0.914	654146		4.90(2.57-7.72)		1427	
D 14 13C4 PFOA										
417.00 > 372.00	3.438	3.448	-0.010	1.000	2927003	1.26		101	5965	
* 62 13C2 PFOA										
415.00 > 370.00	3.438	3.448	-0.010		2795498	1.25			5010	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.448	-0.002	1.003	5992801	2.39	Target=2.79	95.8	391	M
413.00 > 169.00	3.446	3.448	-0.002	1.003	2065027		2.90(1.40-4.19)		1375	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.764	-0.011	1.092	1186292	1.16		96.8	666	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.764	-0.011	1.000	2525869	2.09	Target=5.11	90.2	788	M
499.00 > 99.00	3.753	3.764	-0.011	1.000	551092		4.58(2.55-7.66)		1137	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.772	3.783	-0.011	1.000	5858718	2.19	Target=8.55	87.8	695	
463.00 > 169.00	3.772	3.783	-0.011	1.000	709351		8.26(4.28-12.83)		2724	
D 19 13C5 PFNA										
468.00 > 423.00	3.772	3.783	-0.011	1.097	3216269	1.43		114	5472	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.914	3.928	-0.014	1.043	6304670	2.28		97.7	6695	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.041	4.050	-0.009	1.077	2033587	2.23	Target=2.53	93.0	1063	M
549.00 > 99.00	4.041	4.050	-0.009	1.077	843426		2.41(1.27-3.80)		1281	M
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	3384409	1.48		118	3656	

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	4.081	-0.010	1.000	6897725	2.35	Target=10.26	94.0	1437	
513.00 > 169.00	4.071	4.081	-0.010	1.000	656051		10.51(5.13-15.38)		1113	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	628674	2.03		169	564	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.093	-0.012	1.000	2099569	2.47		103	2390	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.138	4.150	-0.012	1.000	4359842	2.27		90.9	2160	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.204	2295693	1.22		97.7	1959	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.227	853154	1.83		146	541	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.217	4.228	-0.011	1.000	1503631	2.55		102	827	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.319	4.331	-0.012	1.151	1593458	2.21	Target=2.51	91.9	221	M
599.00 > 99.00	4.319	4.331	-0.012	1.151	628274		2.54(1.25-3.76)		1779	
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	3240543	1.54		124	2803	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.353	-0.011	1.000	5961820	2.28	Target=9.88	91.3	154	M
563.00 > 169.00	4.342	4.353	-0.011	1.000	587271		10.15(4.94-14.82)		1783	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.353	4.365	-0.012	1.000	1675490	2.37		95.0	1324	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.266	985260	2.14		172	1116	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.184	9837192	2.30		97.8	7949	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.000	6338374	2.23	Target=7.77	89.2	396	M
613.00 > 169.00	4.580	4.591	-0.011	1.000	876198		7.23(3.89-11.66)		2186	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	3353623	1.57		125	5679	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.601	4.612	-0.011	1.128	2176219	4.27		177	2174	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.268	700901	2.30	Target=0.50	95.1	188	M
699.00 > 99.00	4.758	4.776	-0.018	1.268	1310464		0.53(0.25-0.76)		2989	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.047	6463435	2.38	Target=5.21	95.1	425	M
663.00 > 169.00	4.794	4.804	-0.010	1.047	1152303		5.61(2.60-7.81)		2268	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.992	5.012	-0.020	1.000	697994	2.22	Target=0.89	88.7	2231	
713.00 > 219.00	4.982	5.012	-0.030	0.998	752053		0.93(0.44-1.33)		2837	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.992	5.012	-0.020	1.452	2875225	1.55		124	5975	

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	5.344	5.367	-0.023	1.000	5486755	2.43	Target=5.65	97.2	573	
813.00 > 169.00	5.344	5.367	-0.023	1.000	866684		6.33(2.82-8.47)		4068	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.555	3048201	1.33		107	6070	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.686	5.722	-0.036	1.064	5073455	2.53	Target=6.24	101	611	
913.00 > 169.00	5.686	5.722	-0.036	1.064	688423		7.37(3.12-9.36)		1629	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00031

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d

Injection Date: 05-Jan-2023 17:41:07

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 19

Worklist Smp#: 22

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

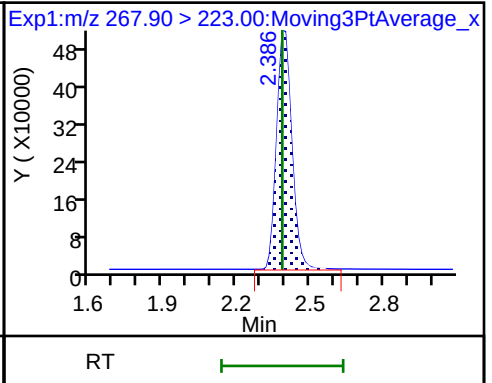
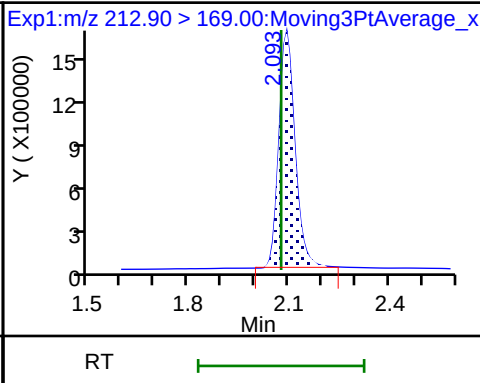
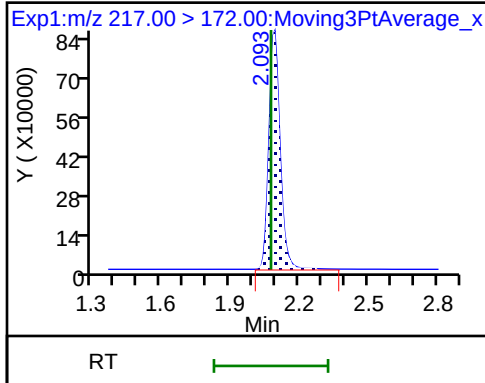
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

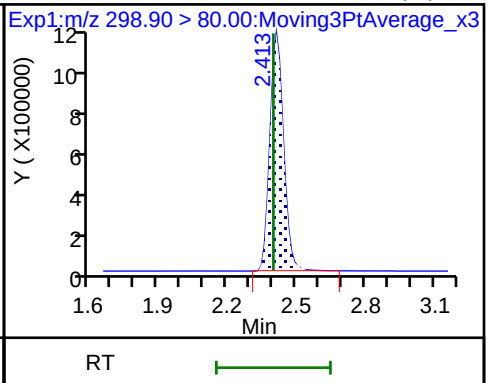
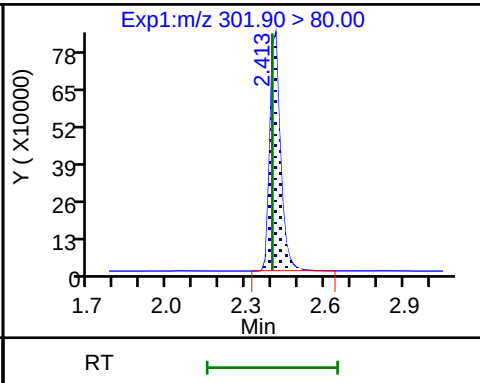
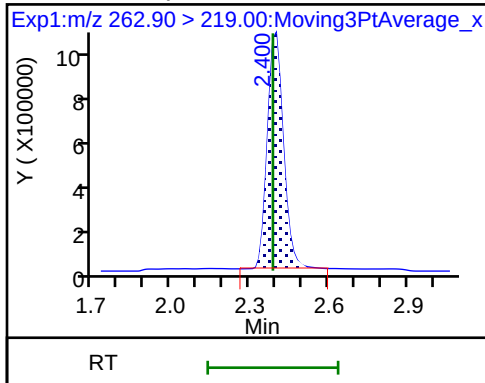
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

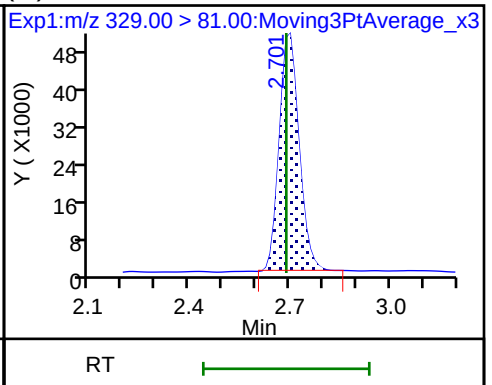
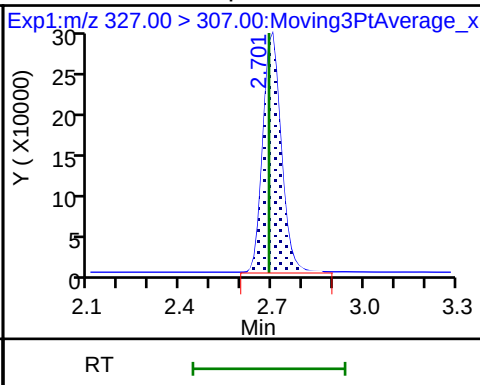
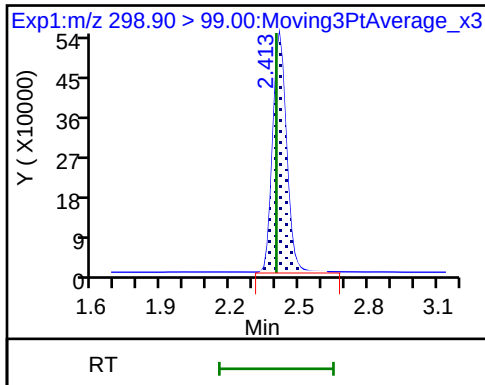
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

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

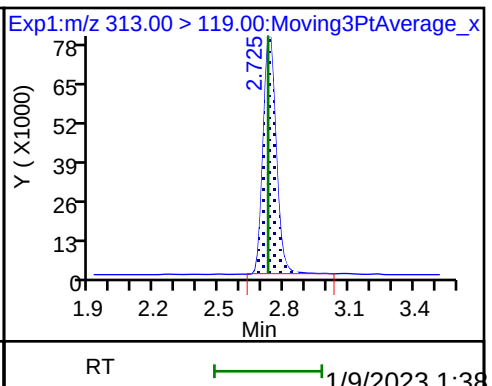
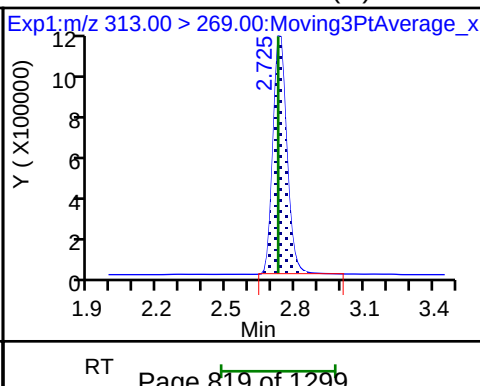
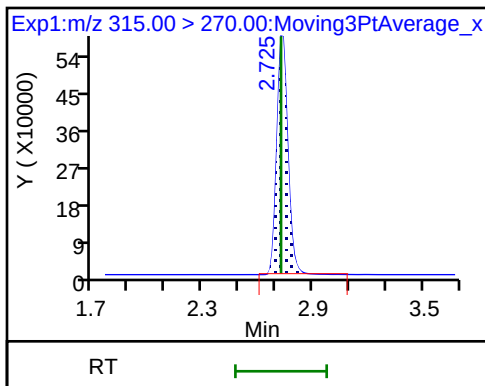
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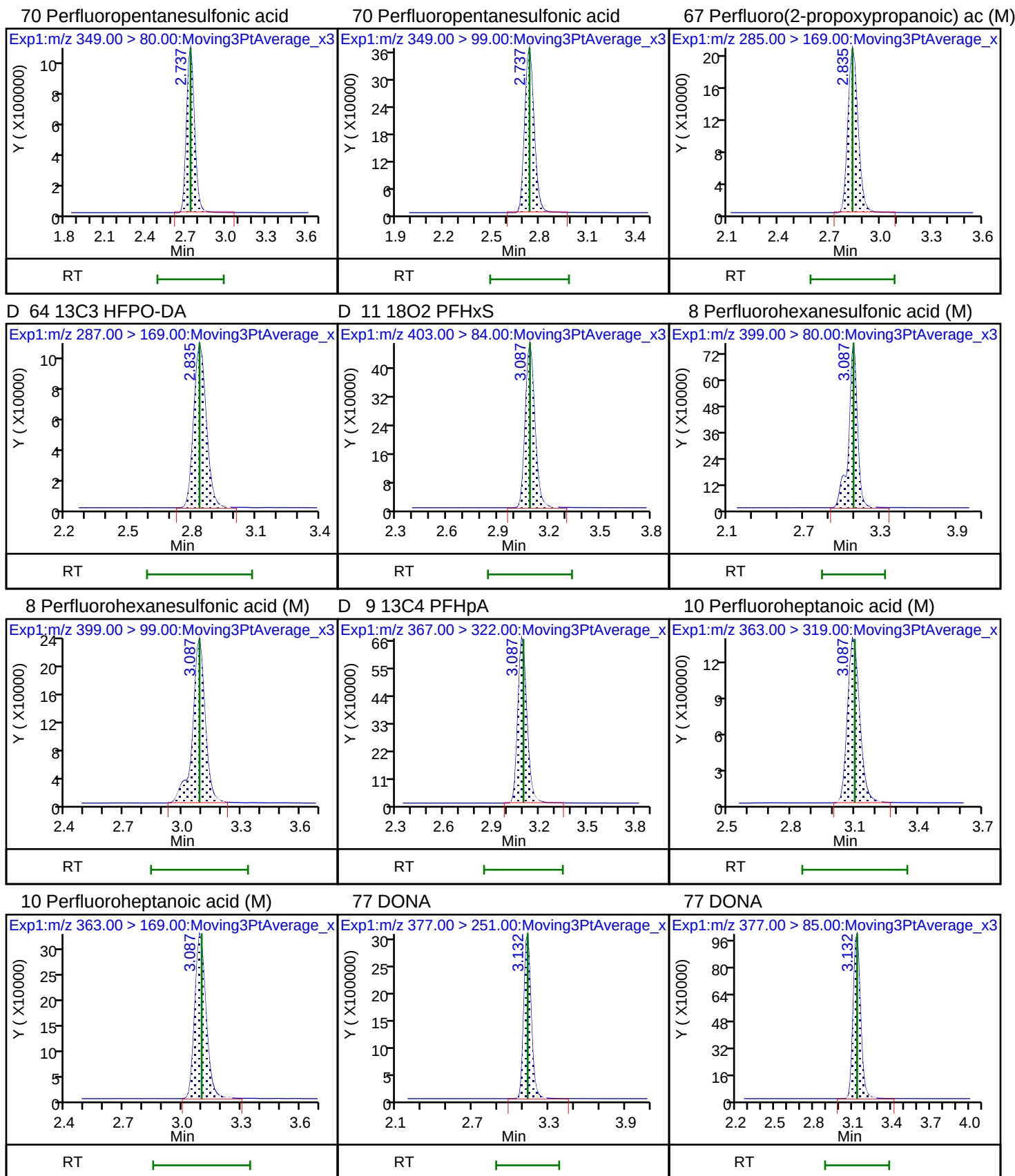


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

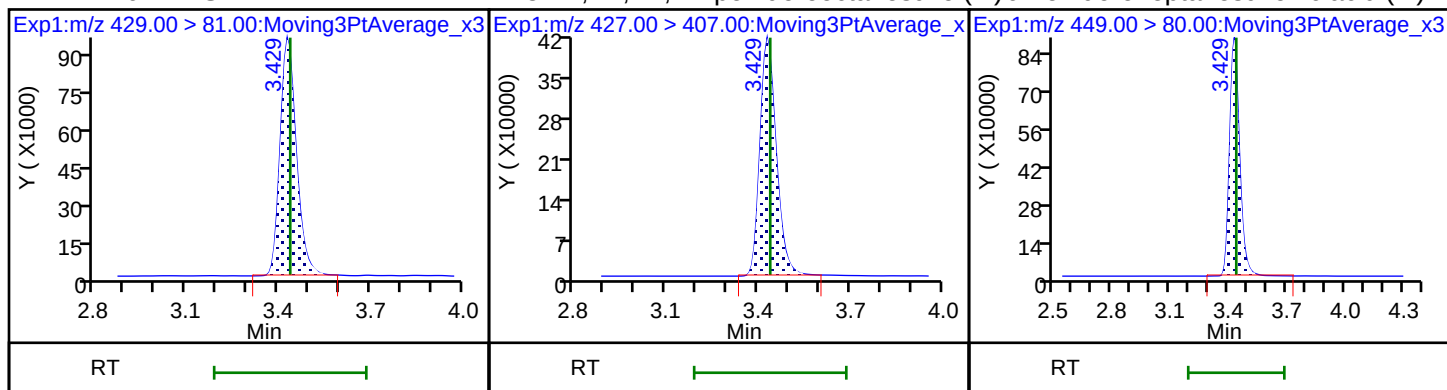
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

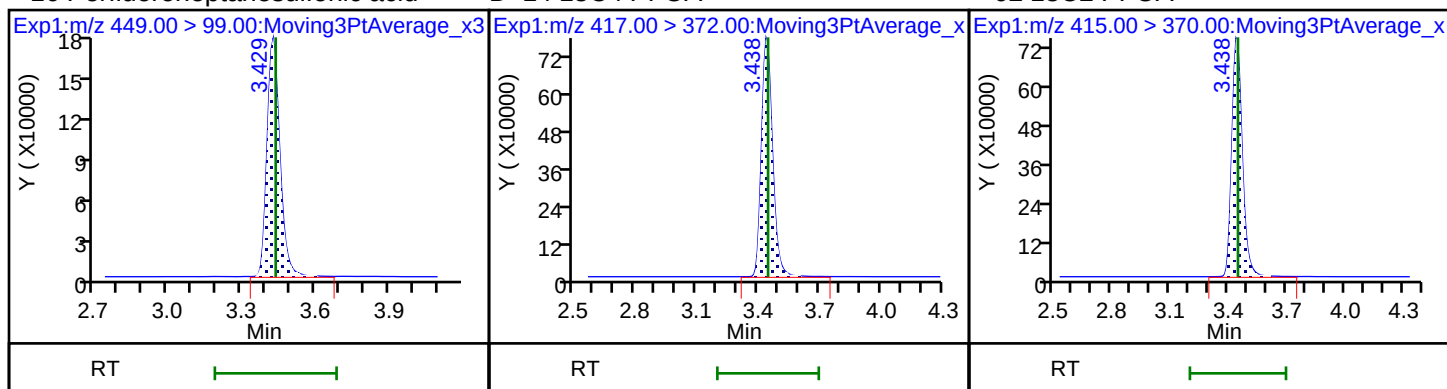
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

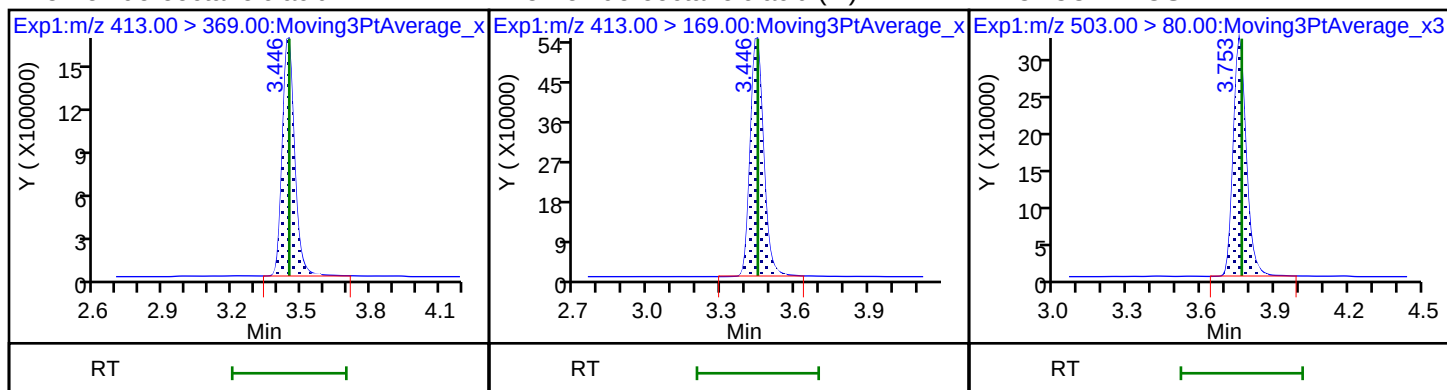
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

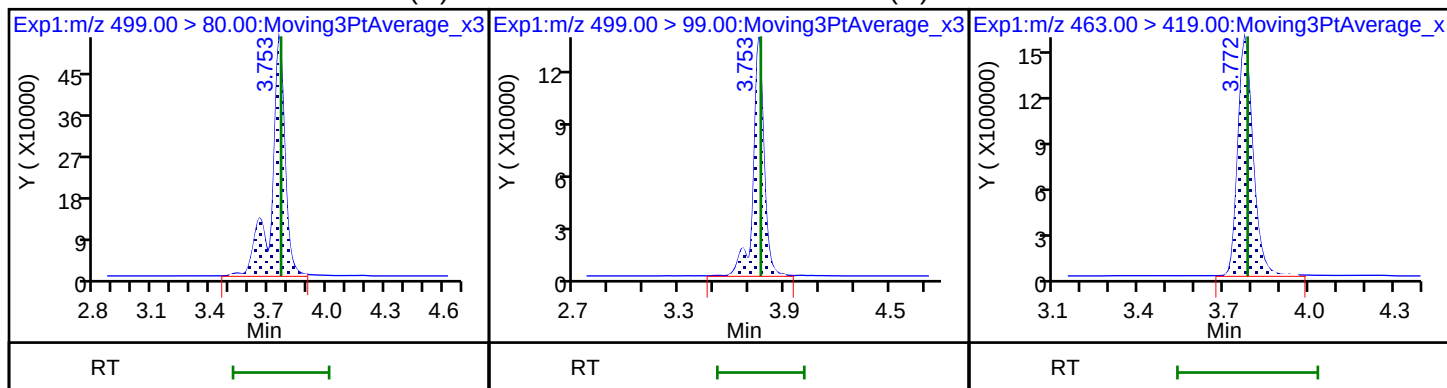
D 18 13C4 PFOS

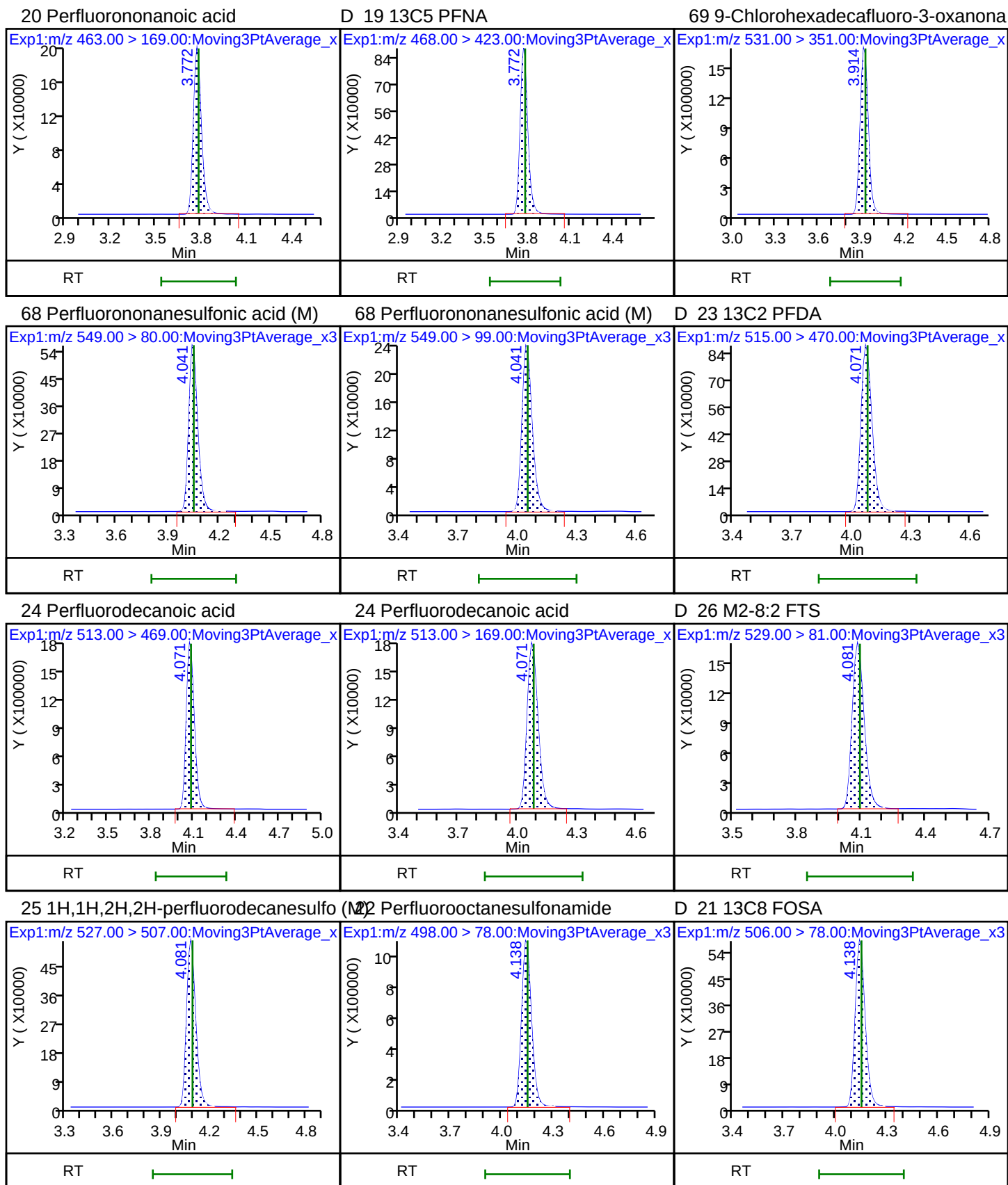


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

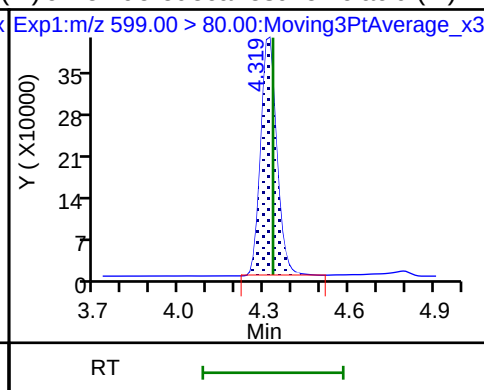
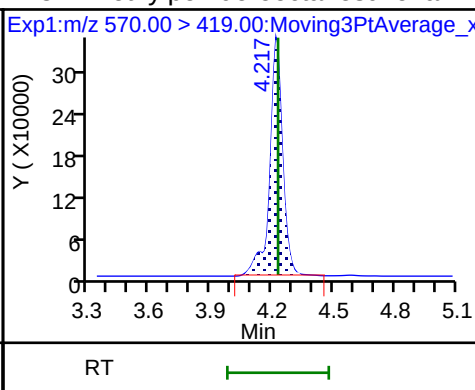
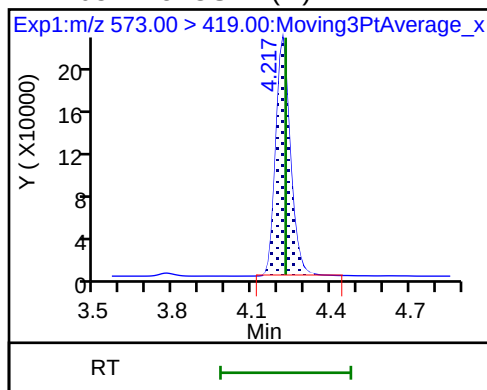




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

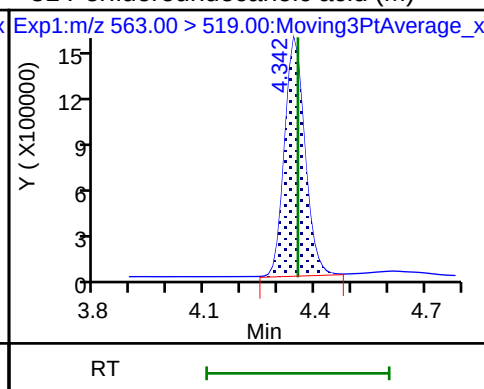
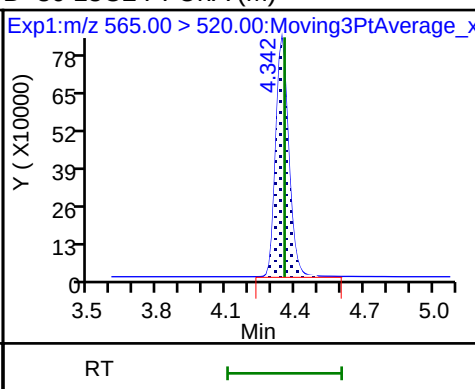
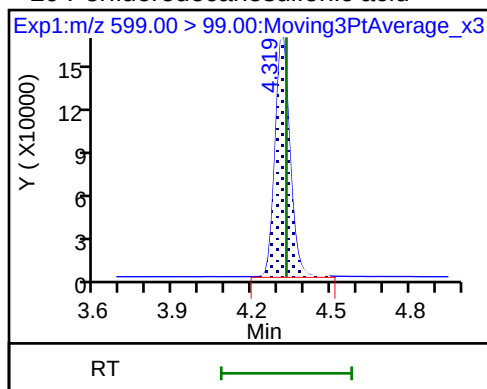
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA (M)

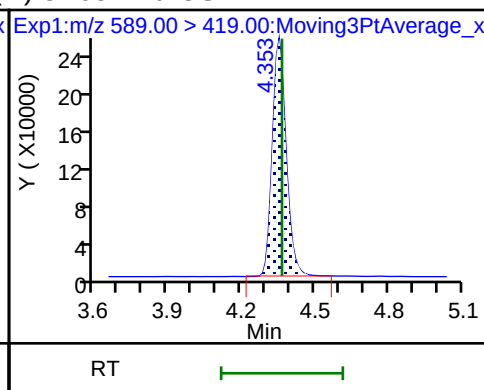
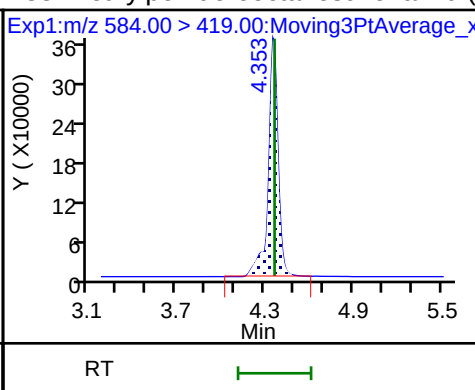
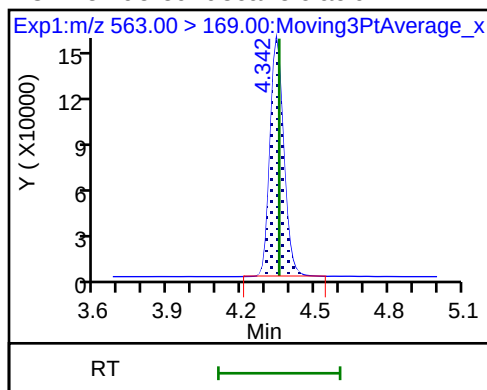
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

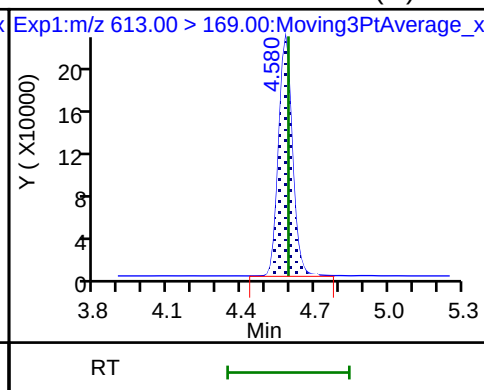
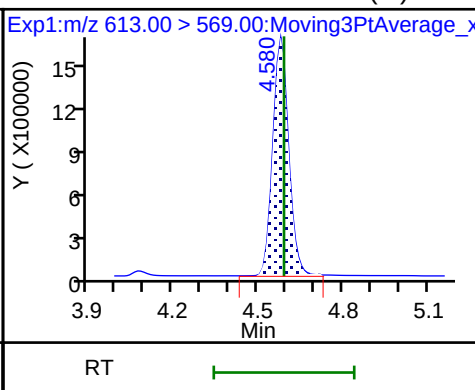
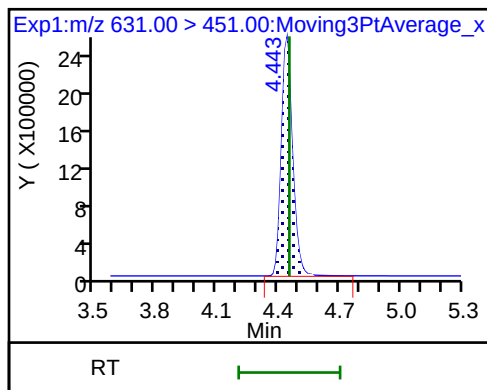
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

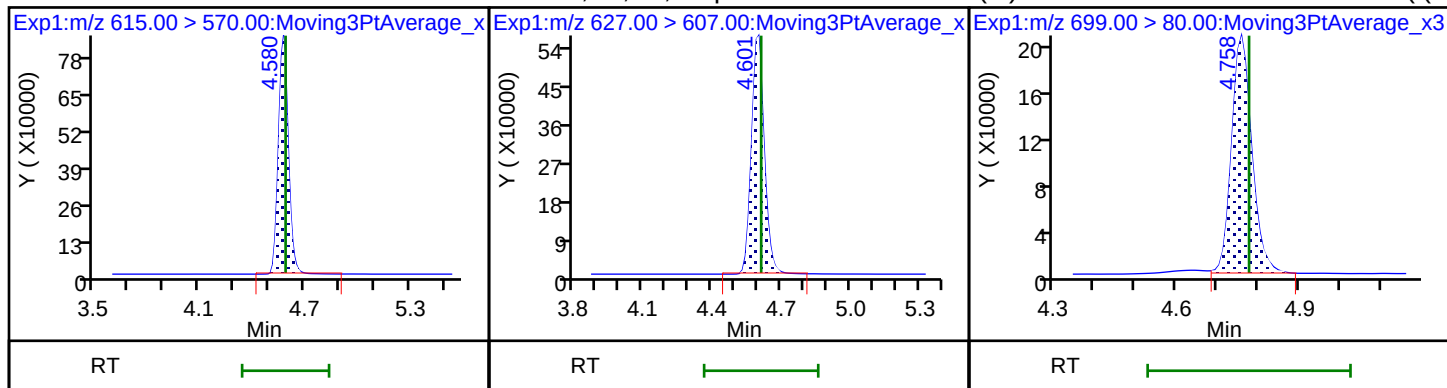
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



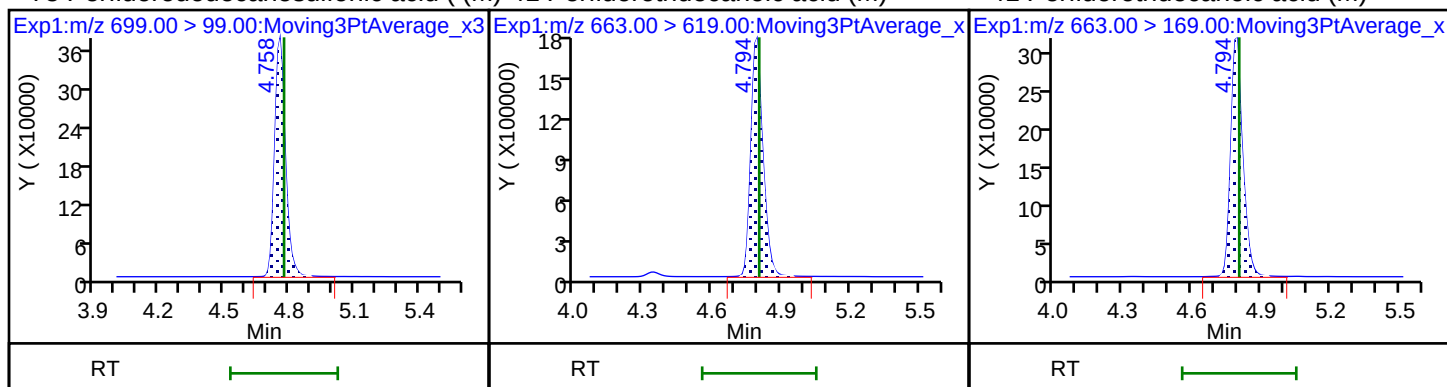
D 36 13C2 PFDaA

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



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

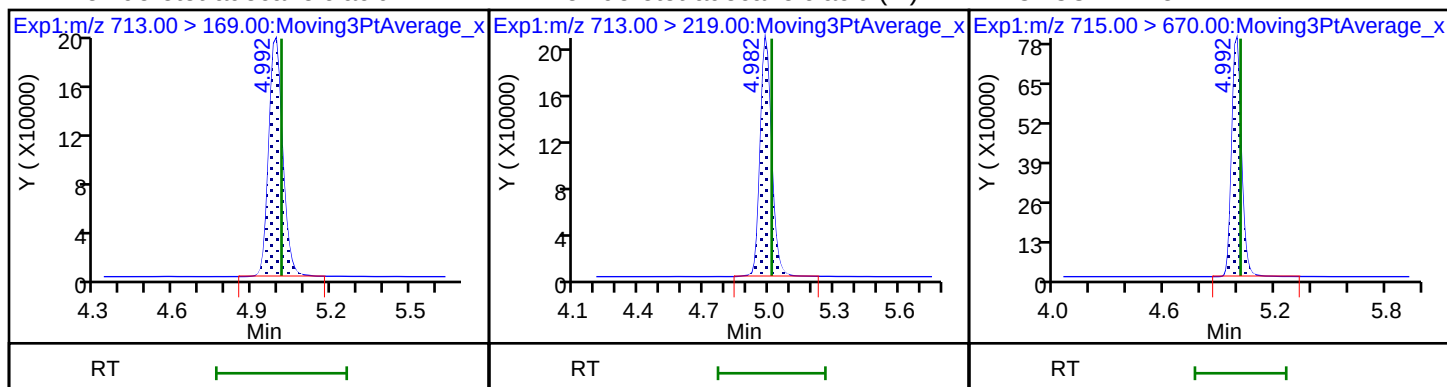
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

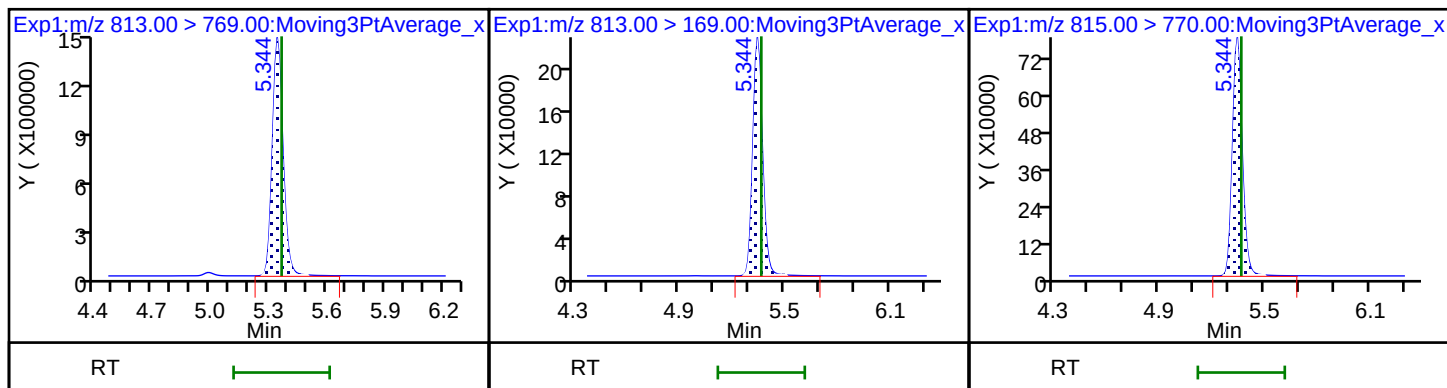
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

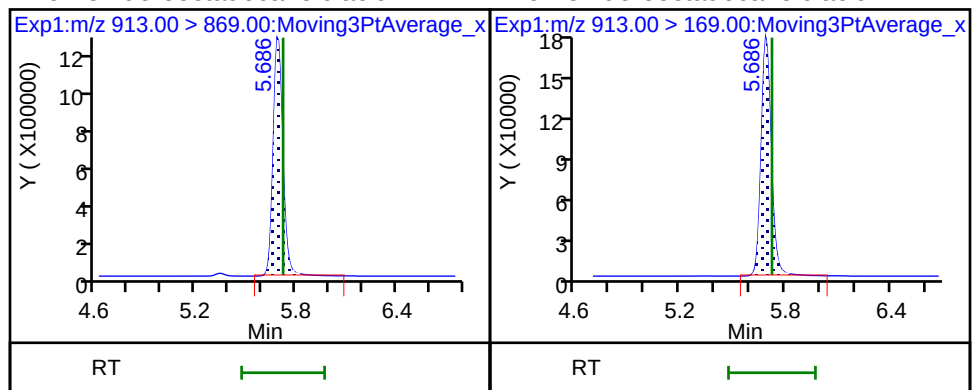
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

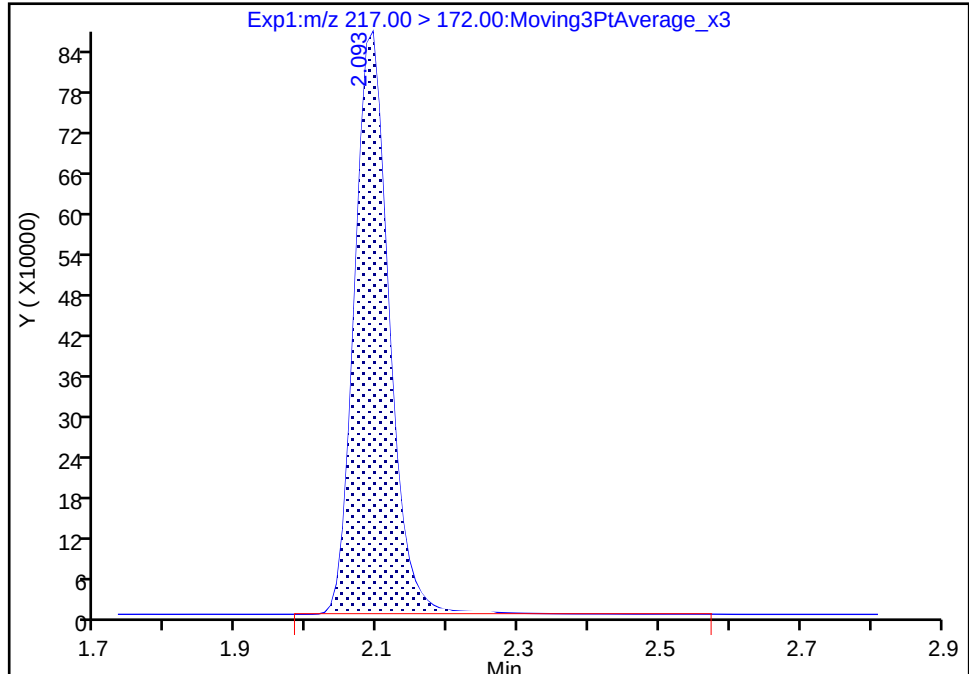
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

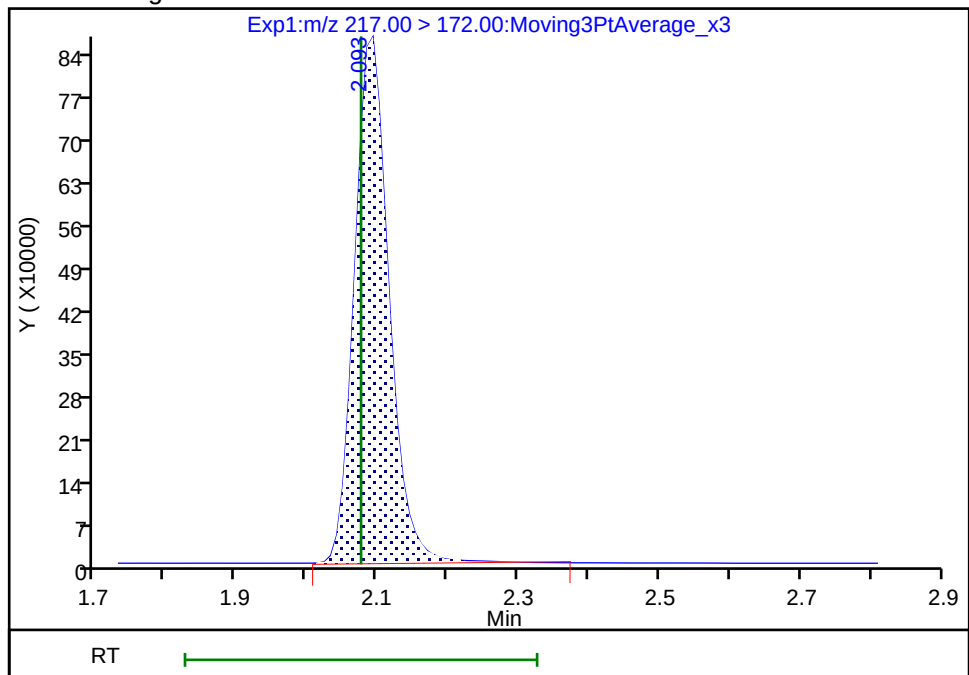
RT: 2.09
Area: 2947179
Amount: 1.174847
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2937211
Amount: 1.170873
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:39:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

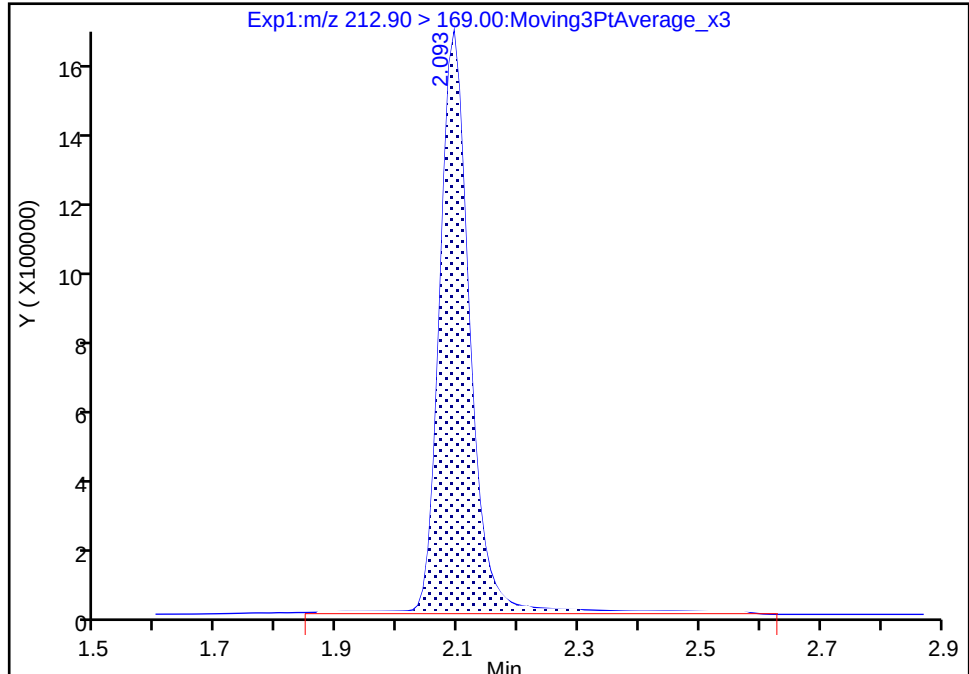
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

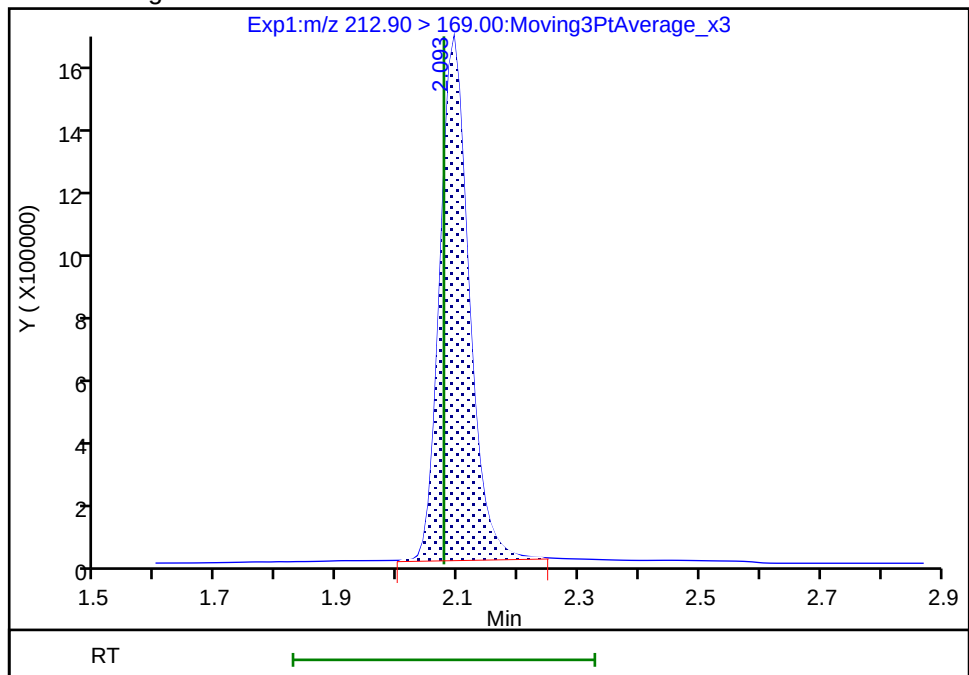
RT: 2.09
Area: 5654281
Amount: 2.333517
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 5375440
Amount: 2.218440
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

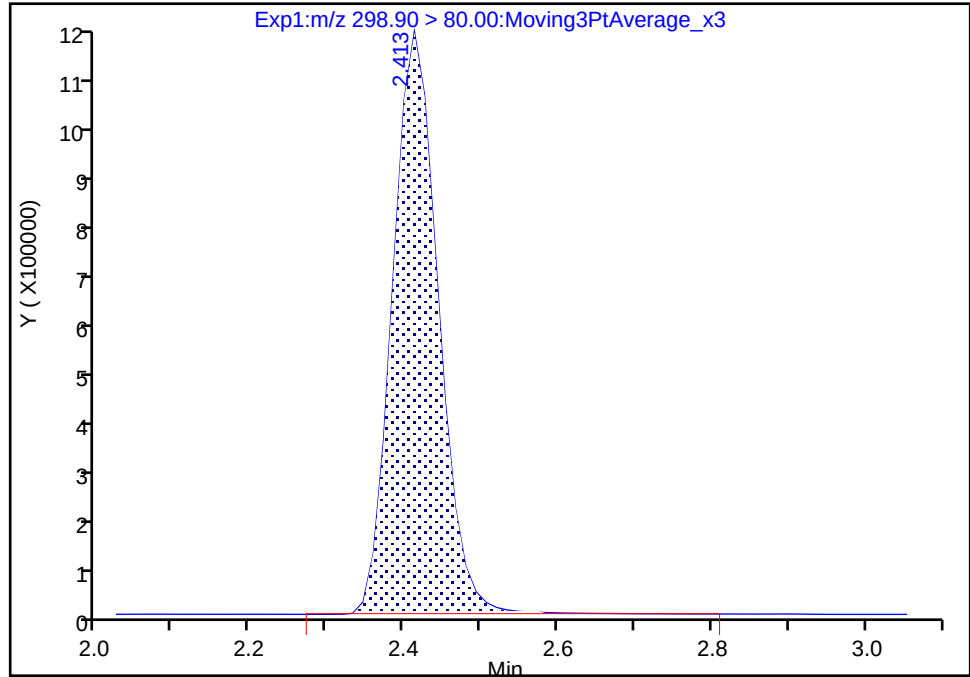
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

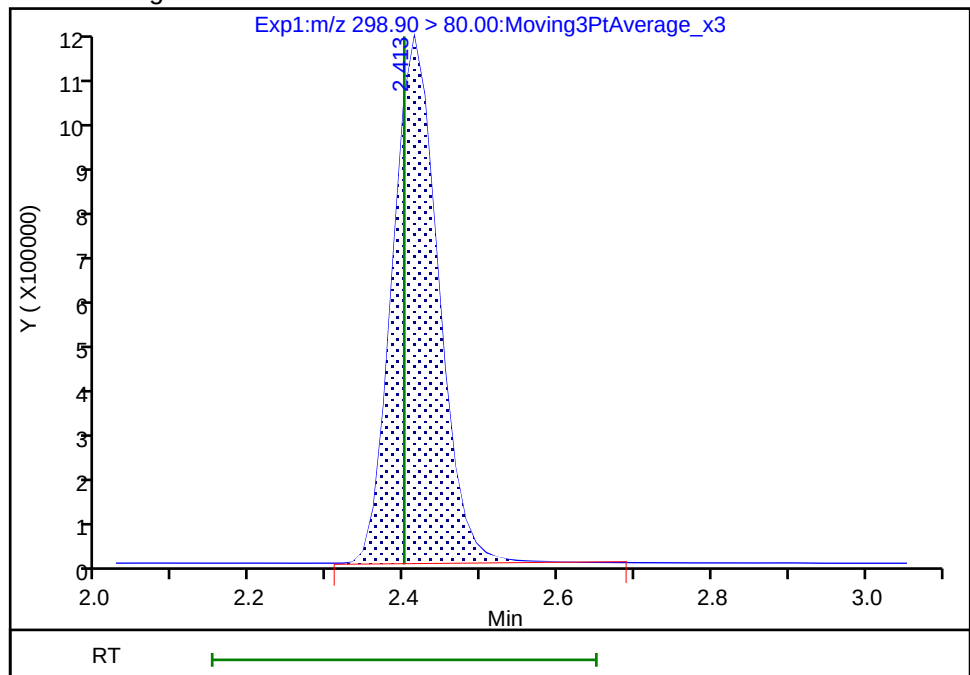
RT: 2.41
Area: 4660989
Amount: 1.990817
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 4649047
Amount: 1.985716
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

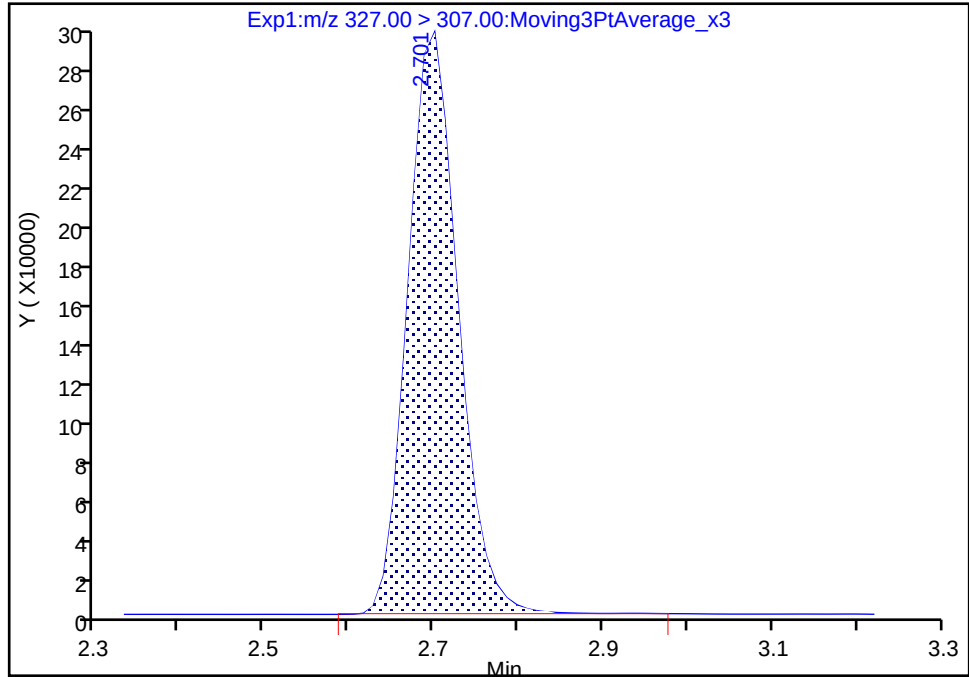
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

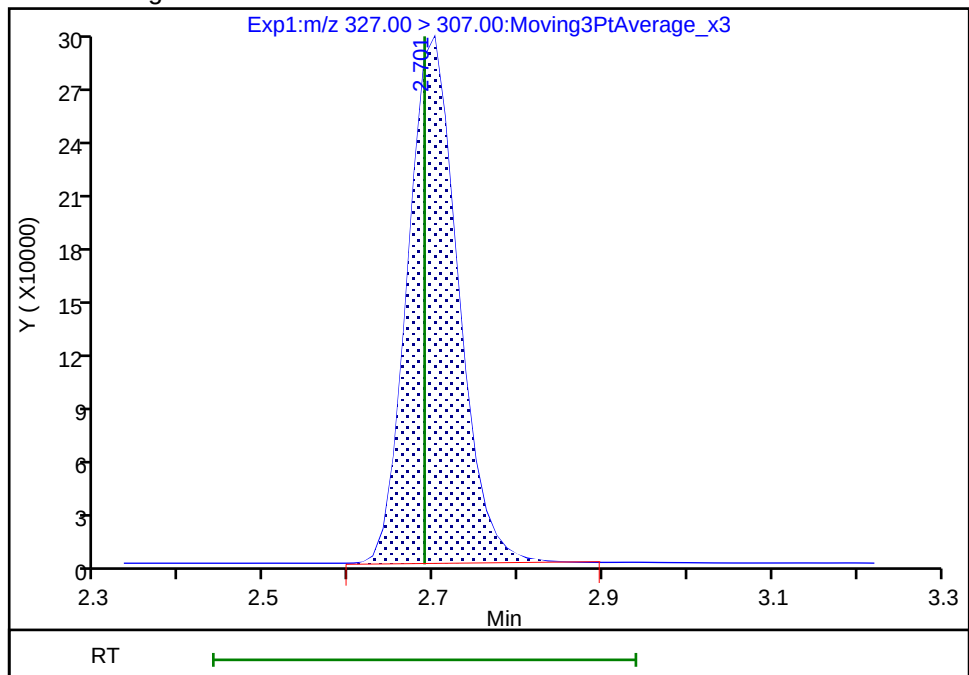
RT: 2.70
Area: 1230848
Amount: 2.216810
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 1228400
Amount: 2.212401
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

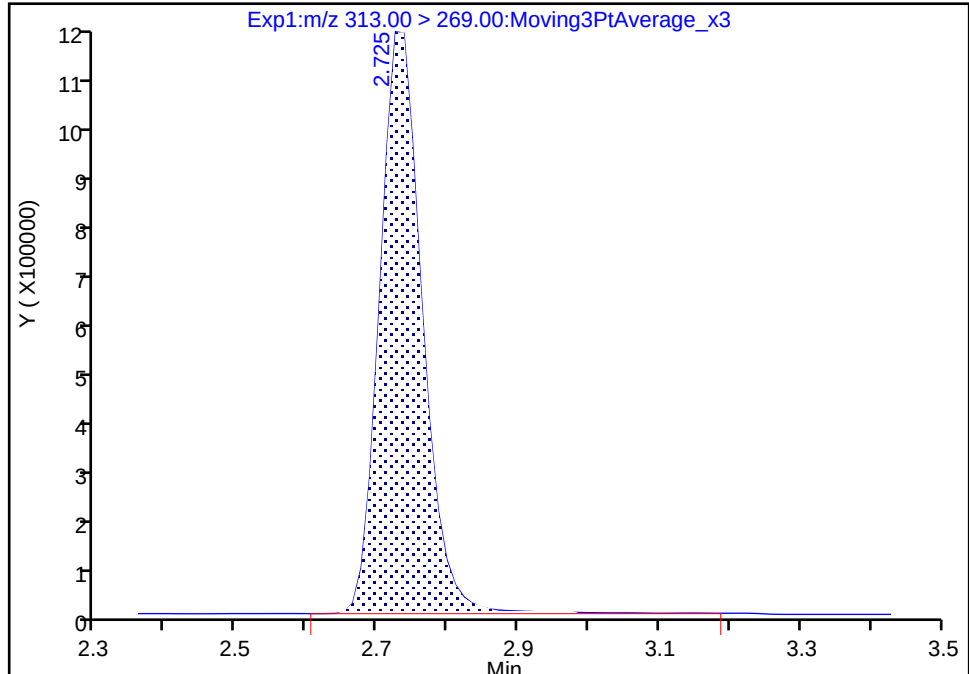
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

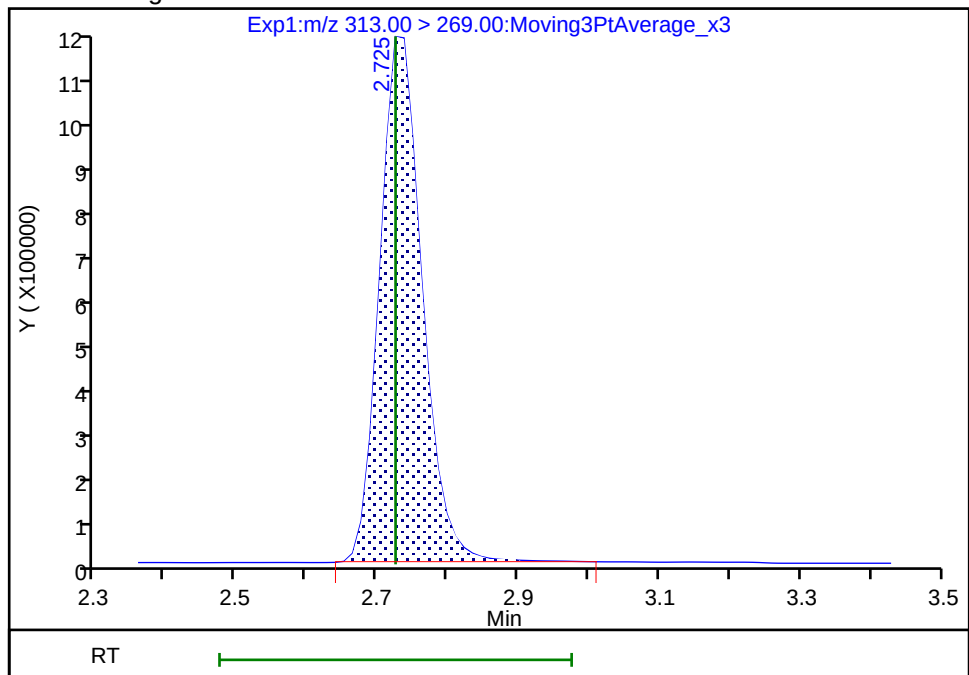
RT: 2.73
Area: 4939444
Amount: 2.318923
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 4914104
Amount: 2.307027
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

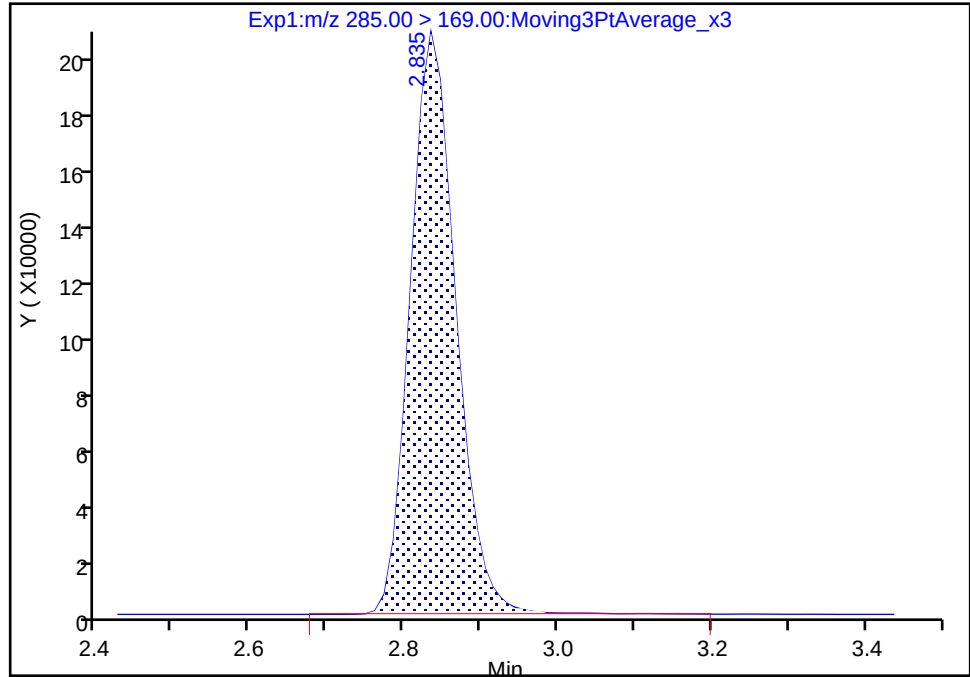
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

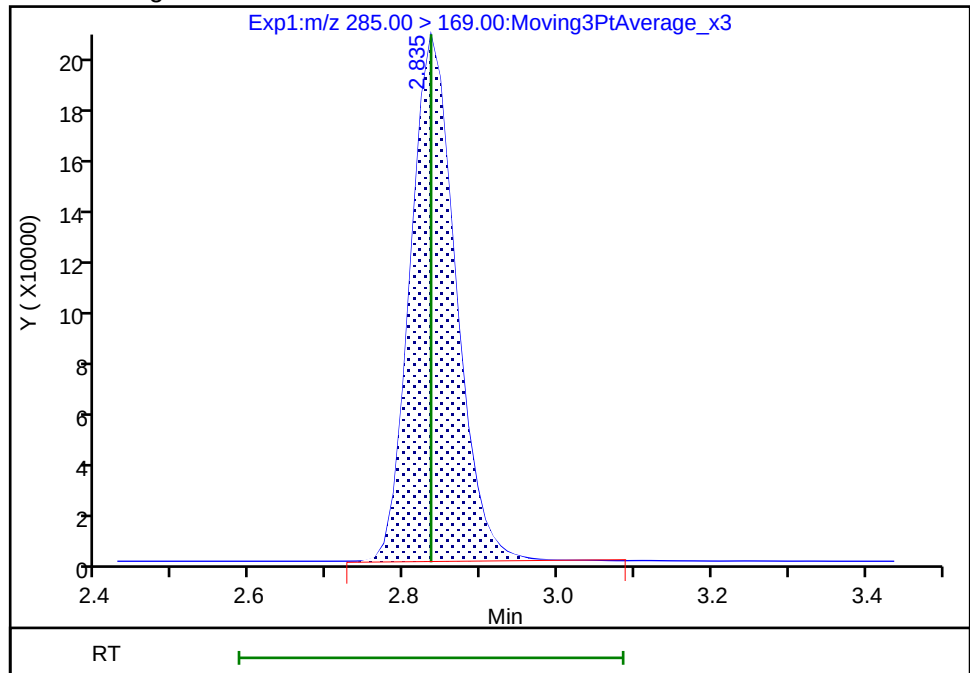
RT: 2.83
Area: 836656
Amount: 2.364065
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 832690
Amount: 2.352859
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

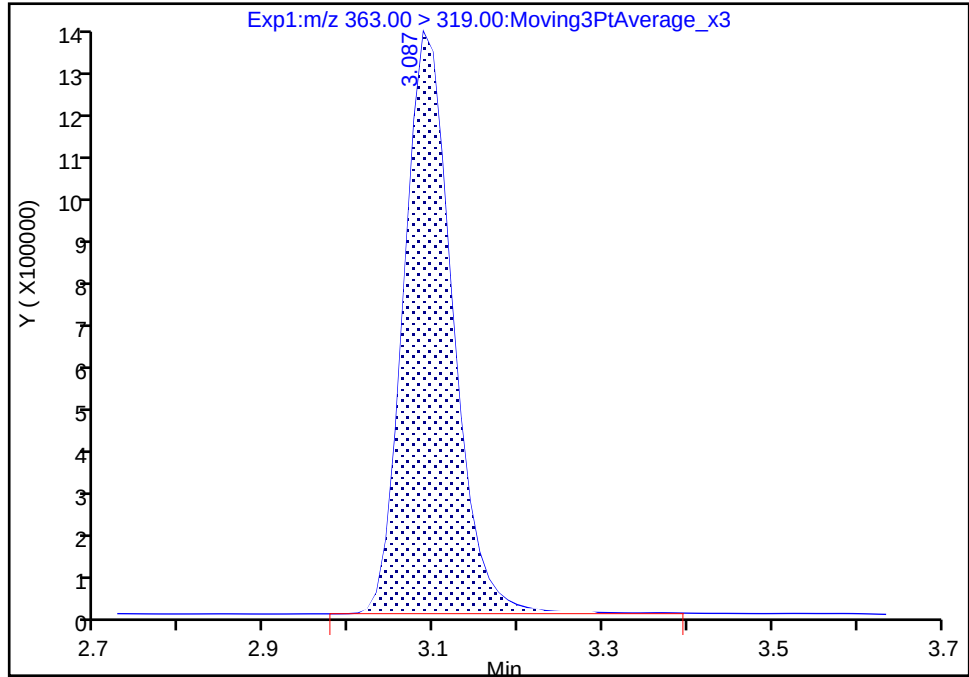
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

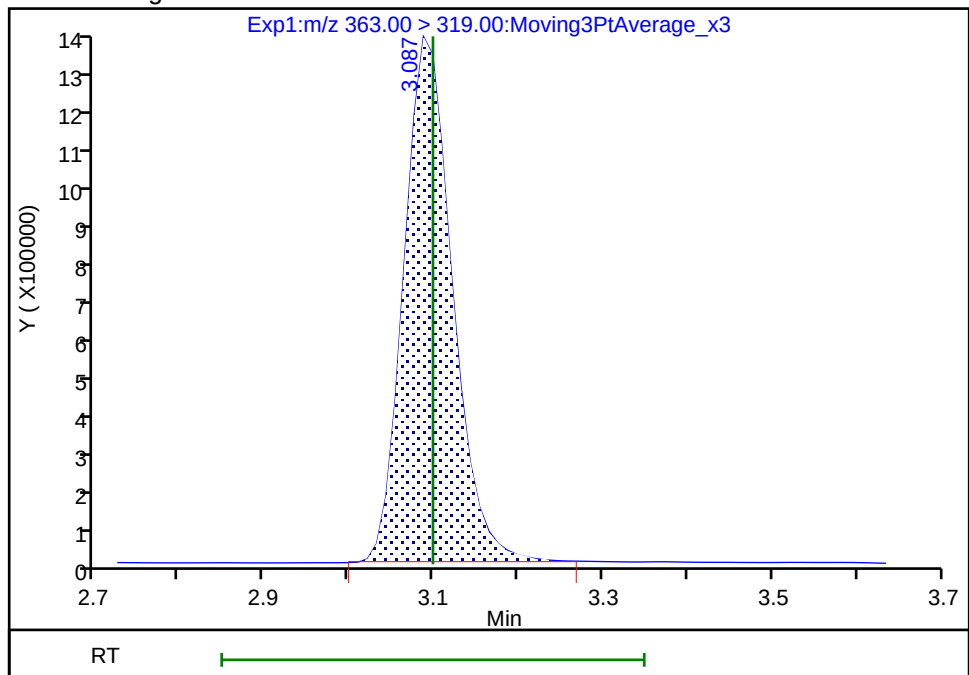
RT: 3.09
Area: 5234460
Amount: 2.262881
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 5200535
Amount: 2.248215
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

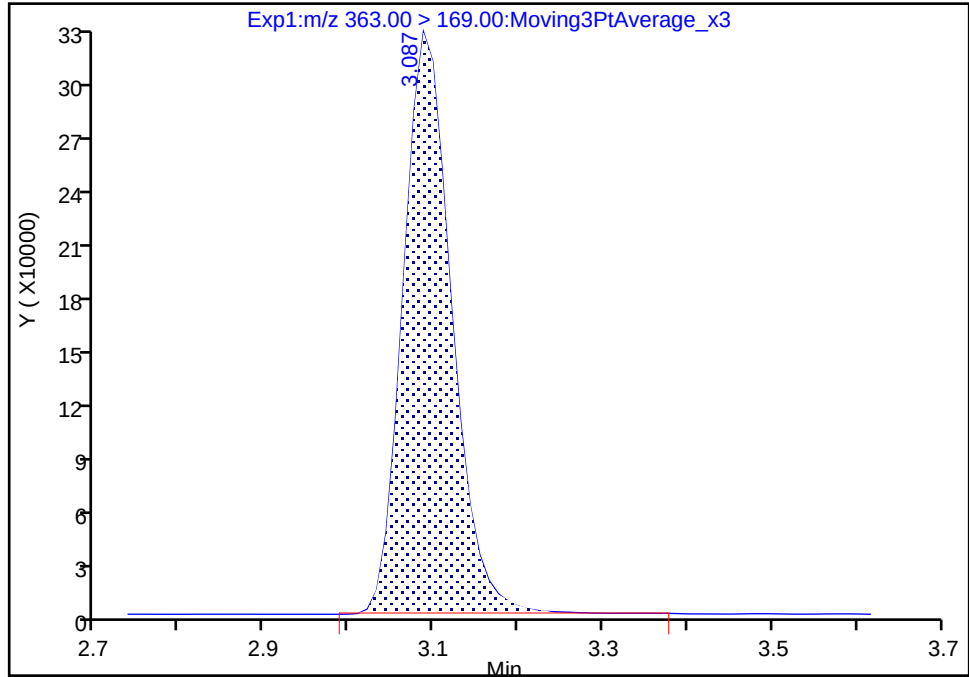
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

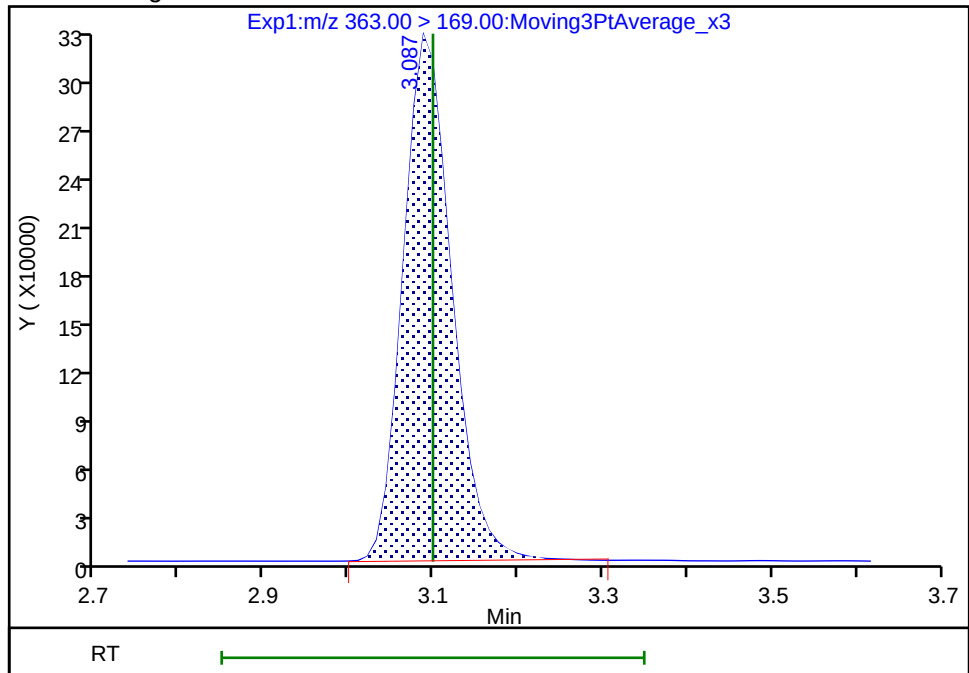
RT: 3.09
Area: 1313414
Amount: 2.262881
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1311093
Amount: 2.248215
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

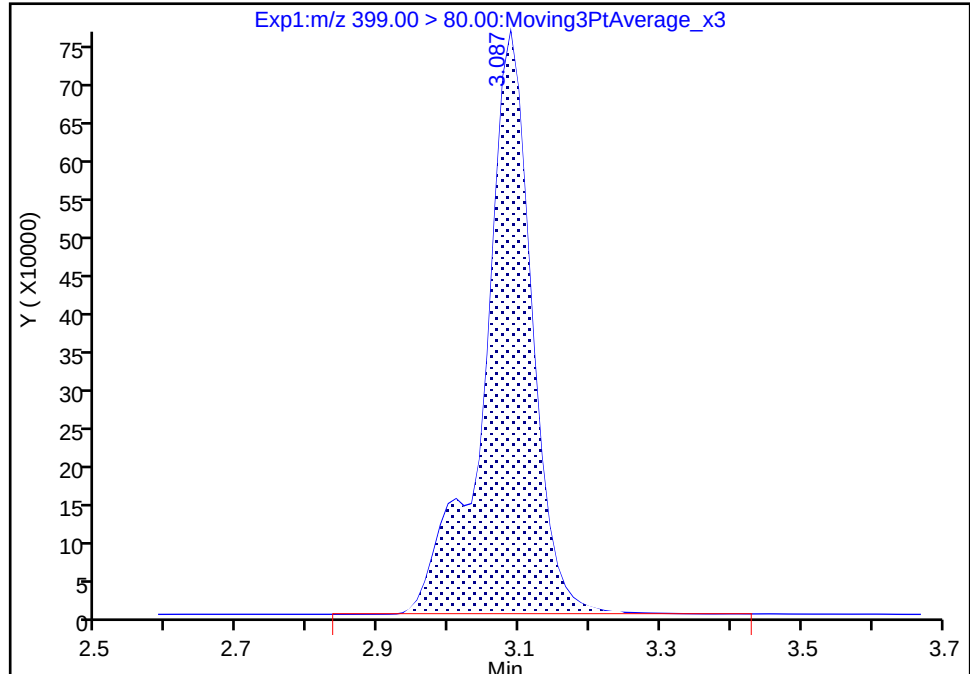
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

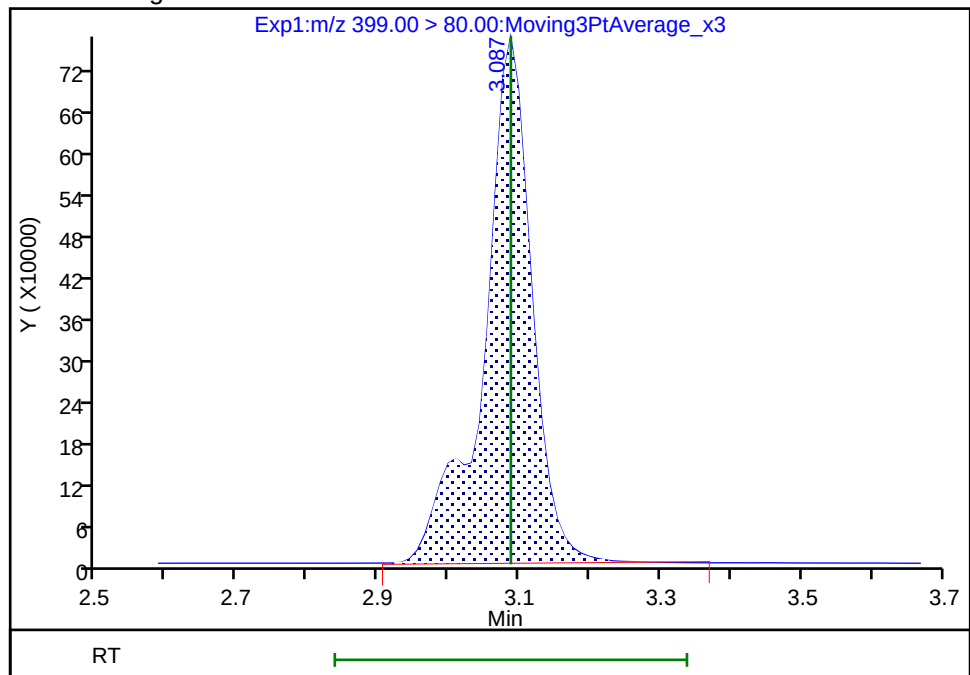
RT: 3.09
Area: 3646814
Amount: 2.084854
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3643708
Amount: 2.083078
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

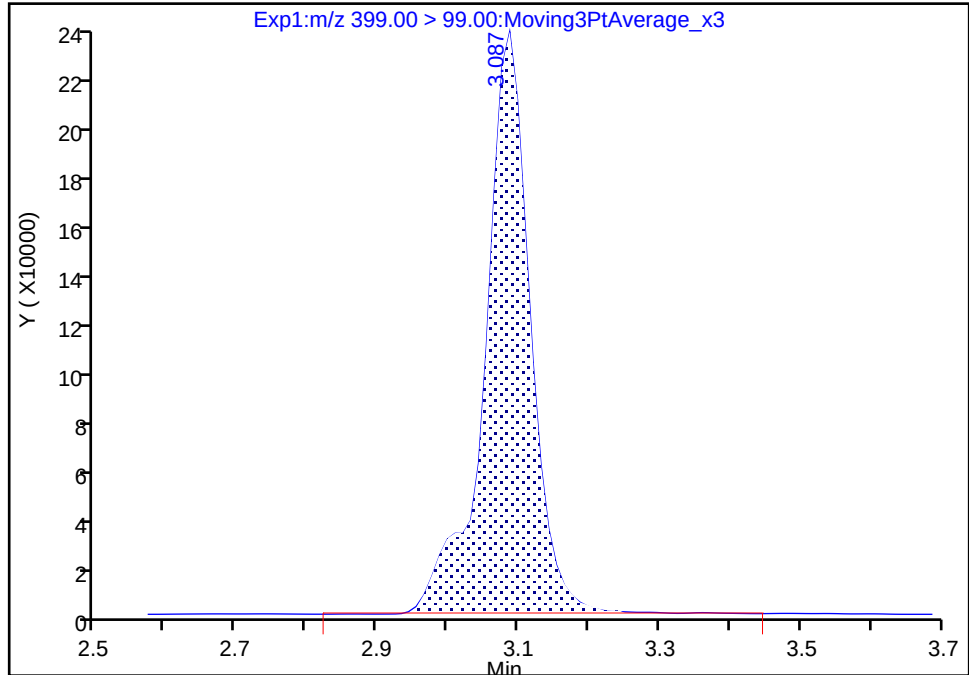
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

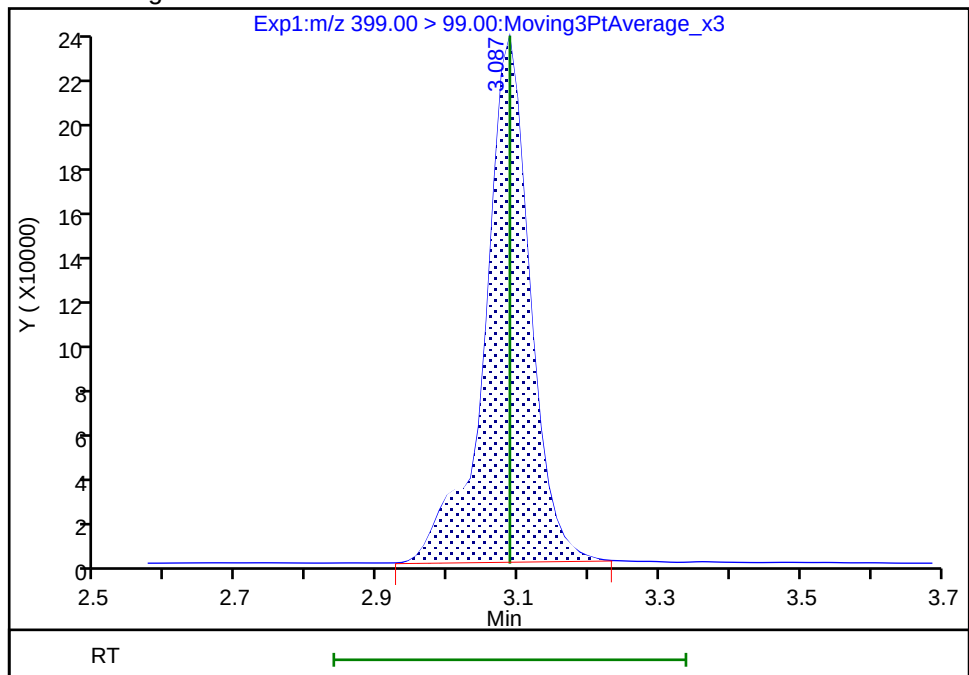
RT: 3.09
Area: 1066826
Amount: 2.084854
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1052014
Amount: 2.083078
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:40:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

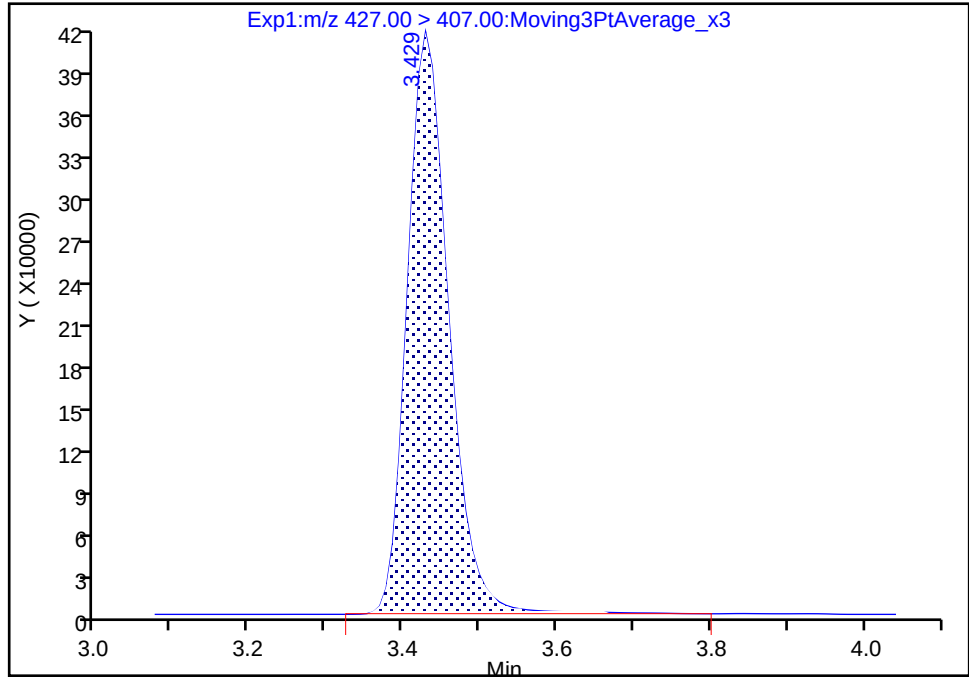
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

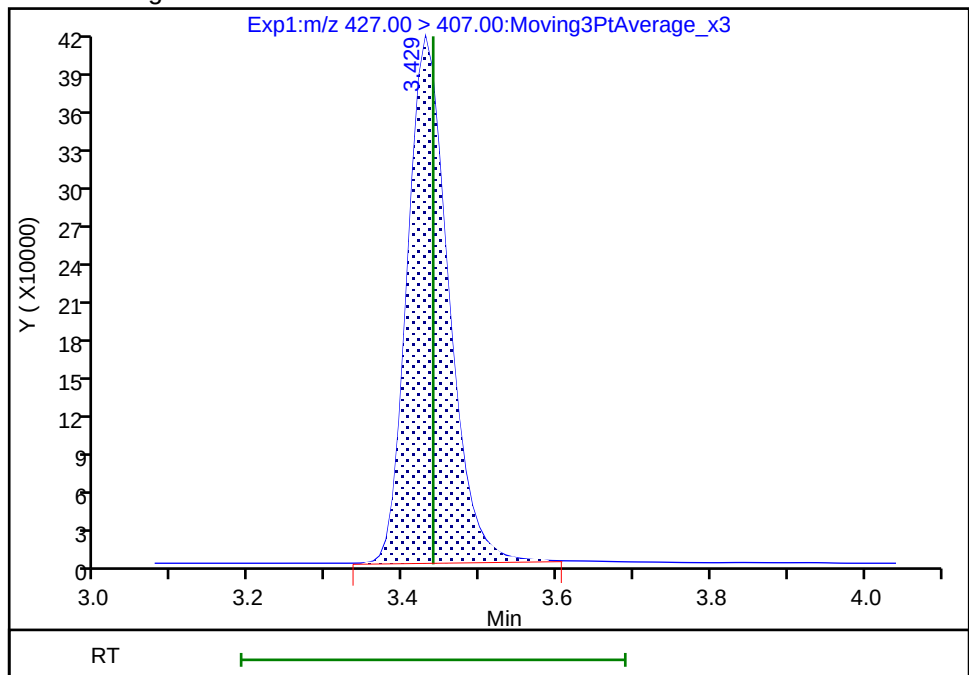
RT: 3.43
Area: 1553082
Amount: 2.445300
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1538053
Amount: 2.421522
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:41:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

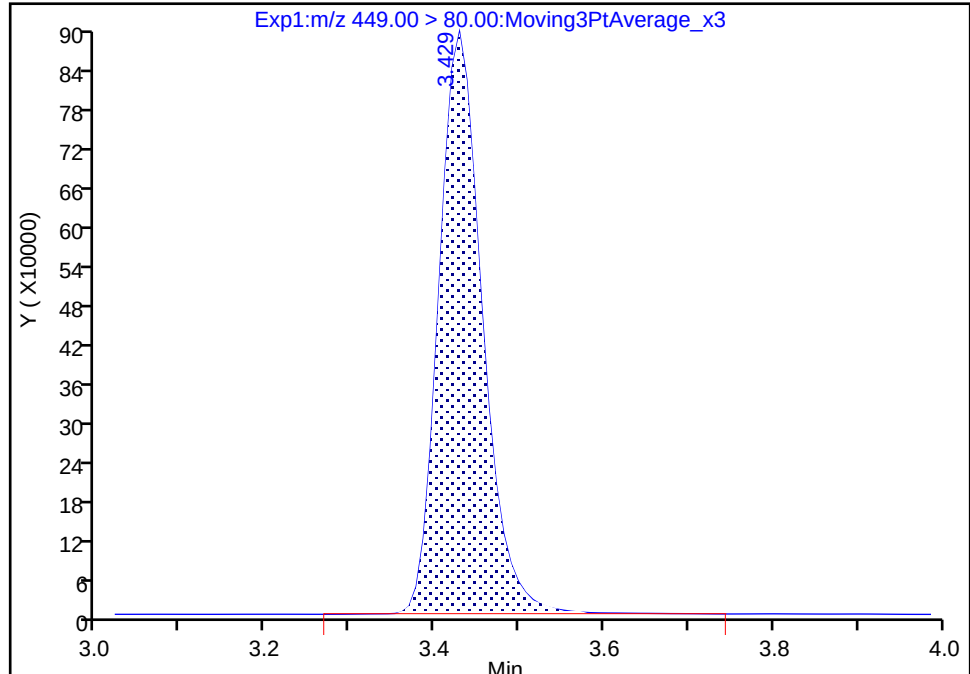
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

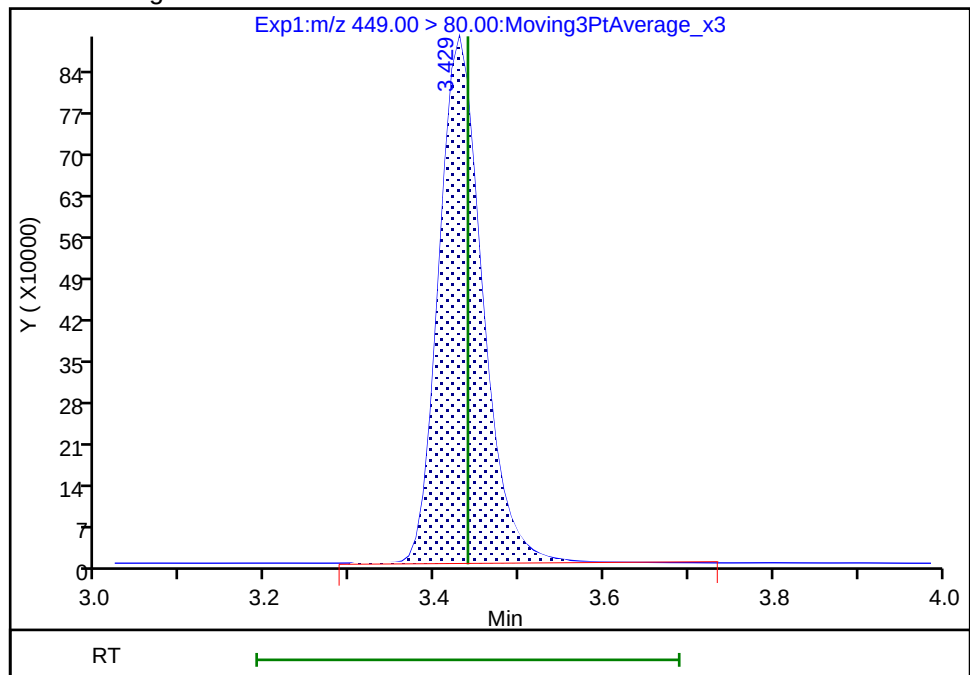
RT: 3.43
Area: 3213024
Amount: 2.317294
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 3204561
Amount: 2.311190
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:41:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

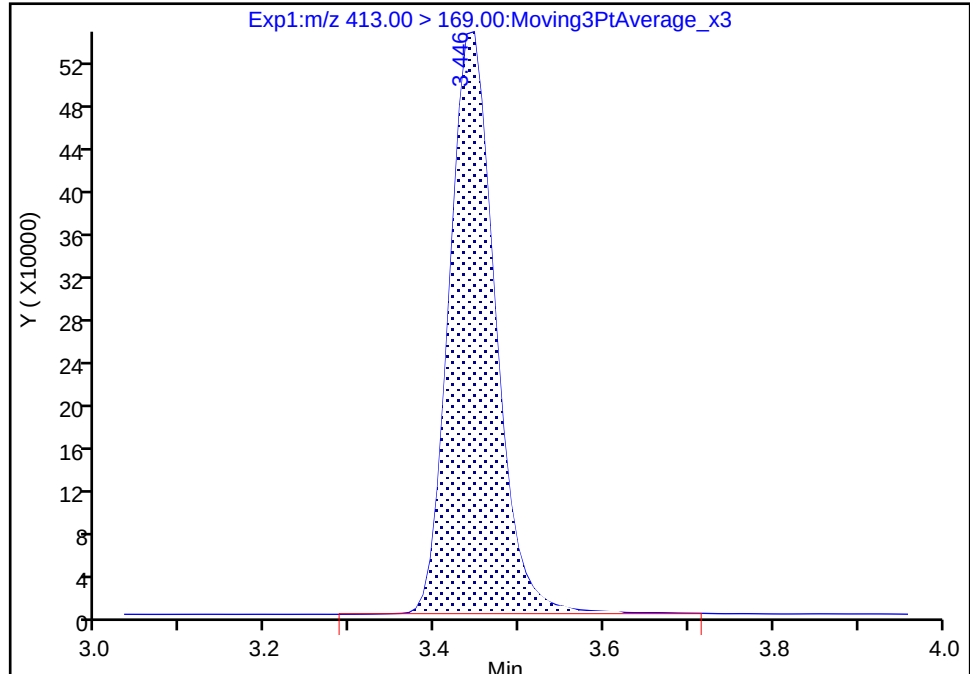
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

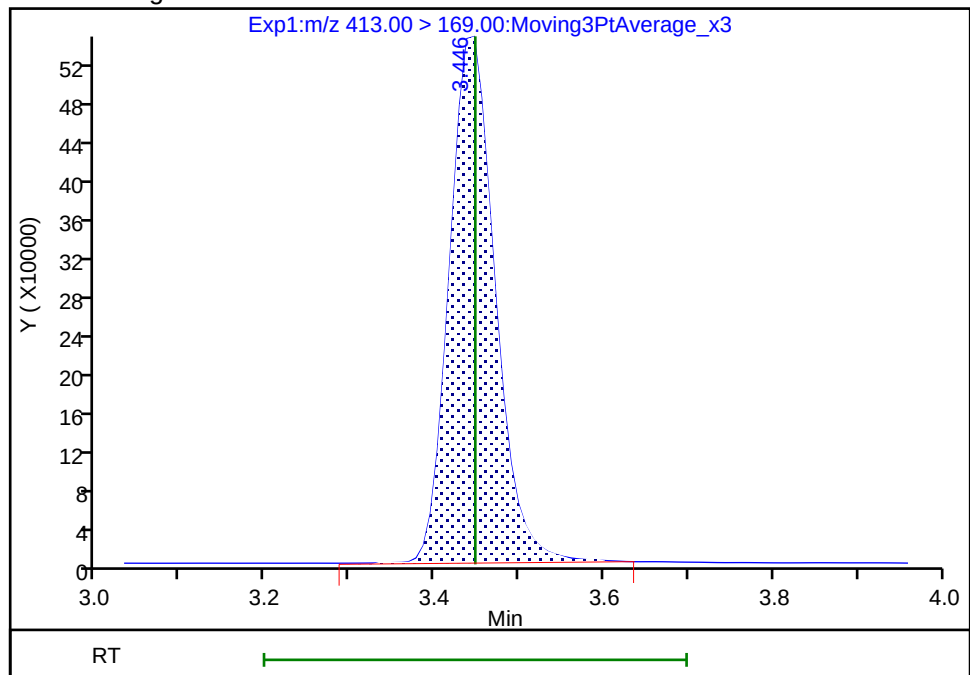
RT: 3.45
Area: 2063982
Amount: 2.393998
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 2065027
Amount: 2.393998
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:41:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

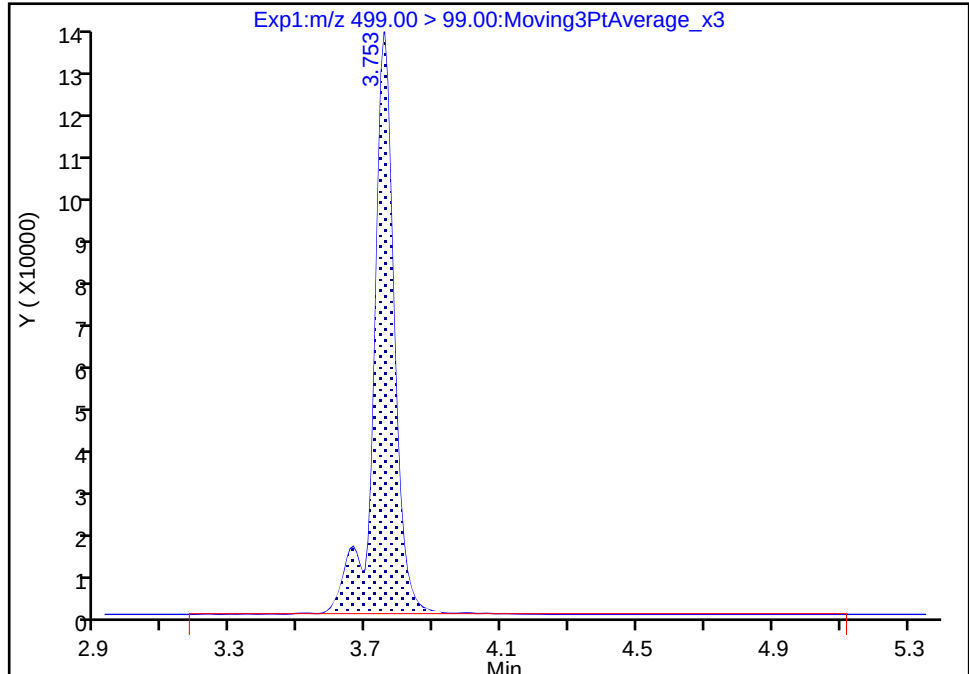
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

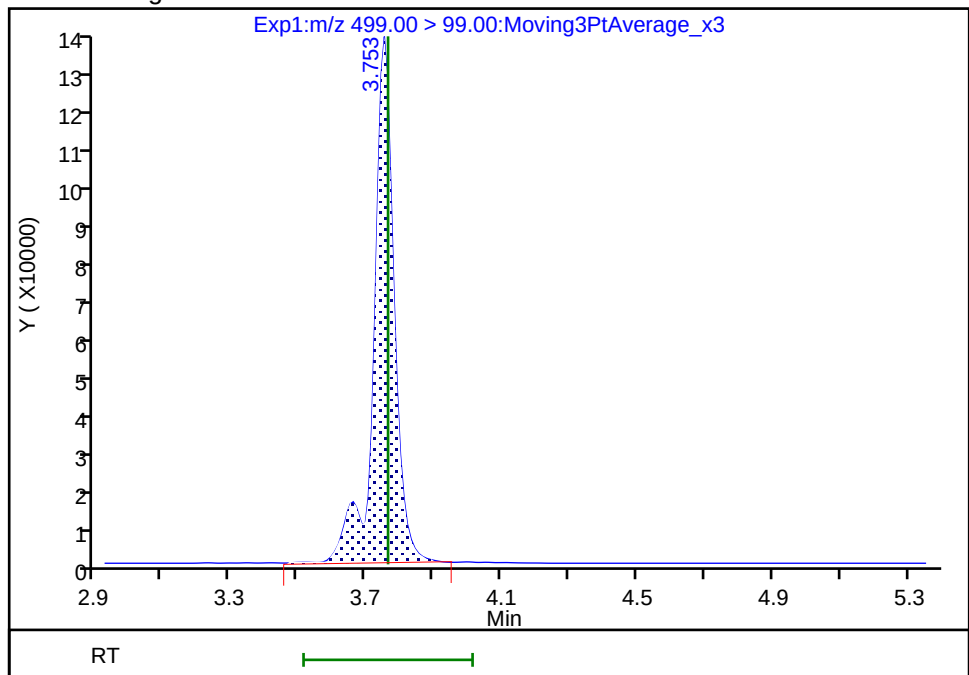
RT: 3.75
Area: 559041
Amount: 2.123919
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 551092
Amount: 2.092202
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:41:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

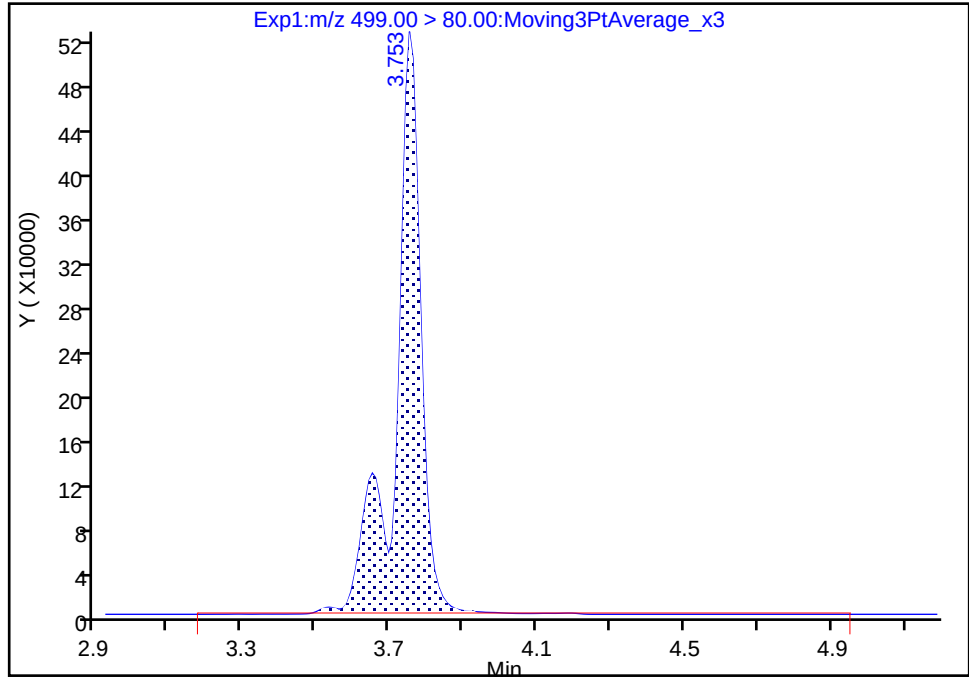
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

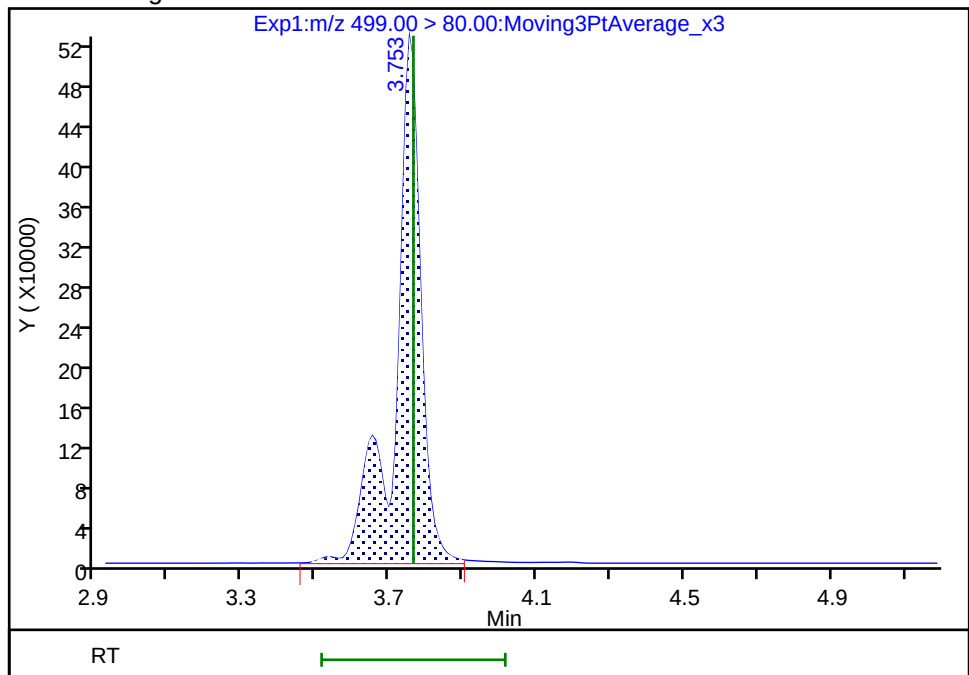
RT: 3.75
Area: 2564161
Amount: 2.123919
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 2525869
Amount: 2.092202
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:41:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 840 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

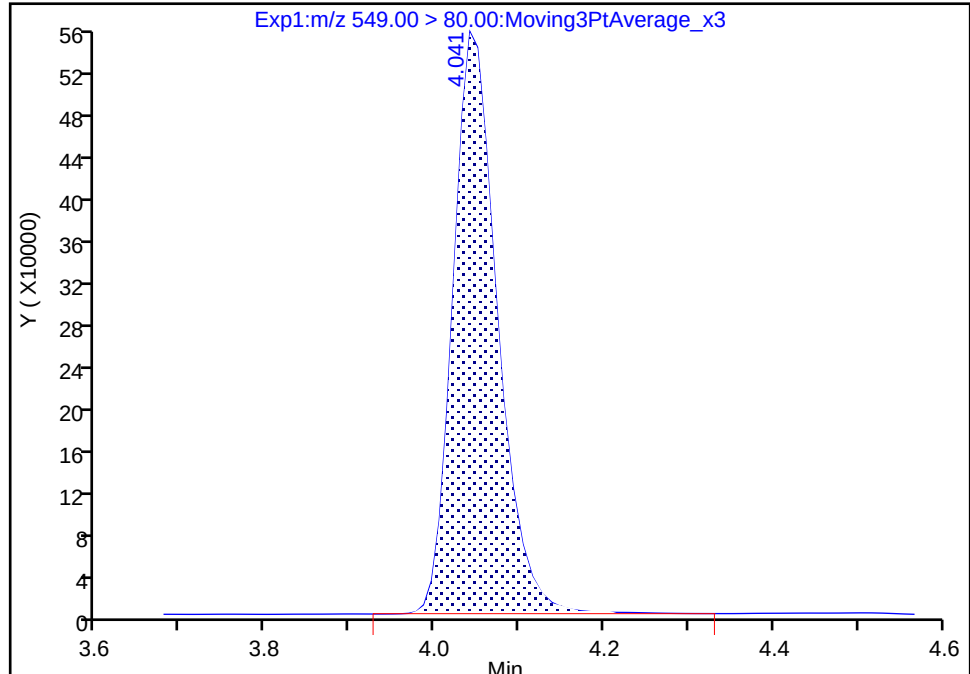
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

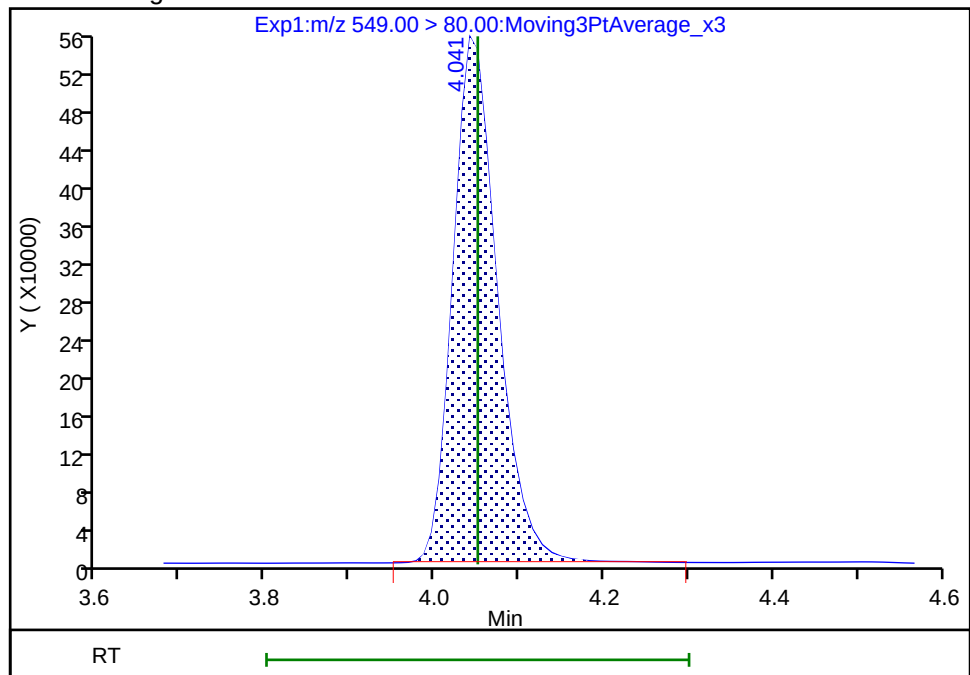
RT: 4.04
Area: 2040516
Amount: 2.239324
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 2033587
Amount: 2.231720
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:42:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

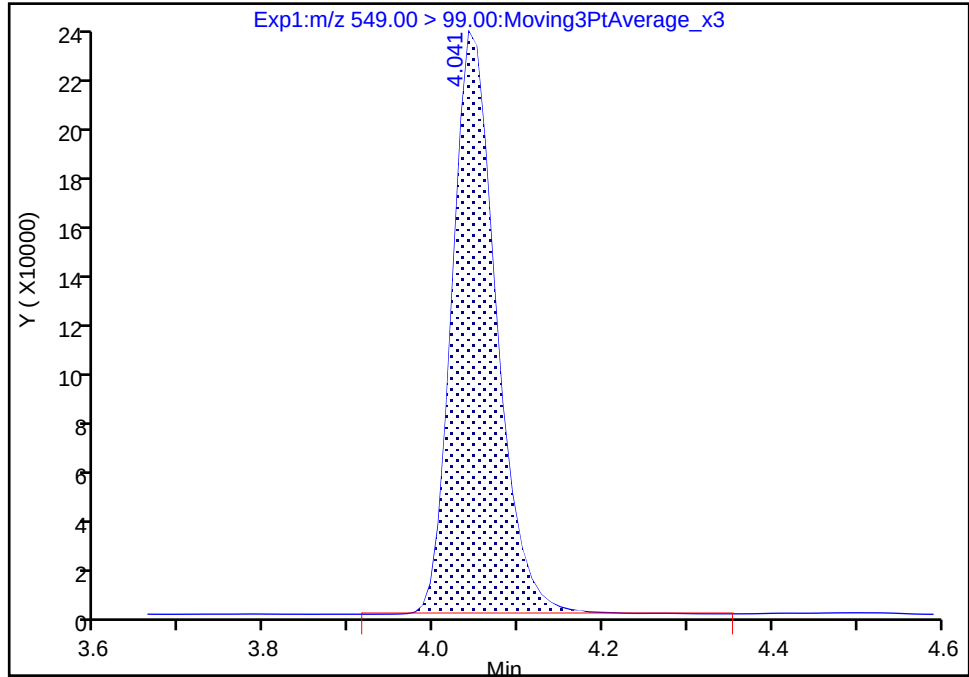
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

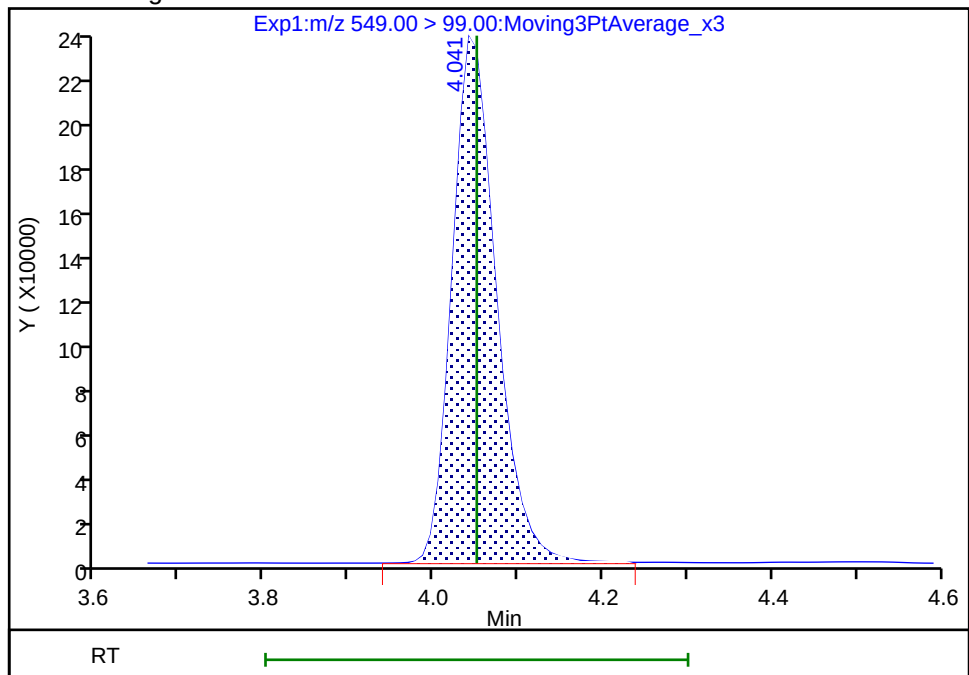
RT: 4.04
Area: 848666
Amount: 2.239324
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 843426
Amount: 2.231720
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:42:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

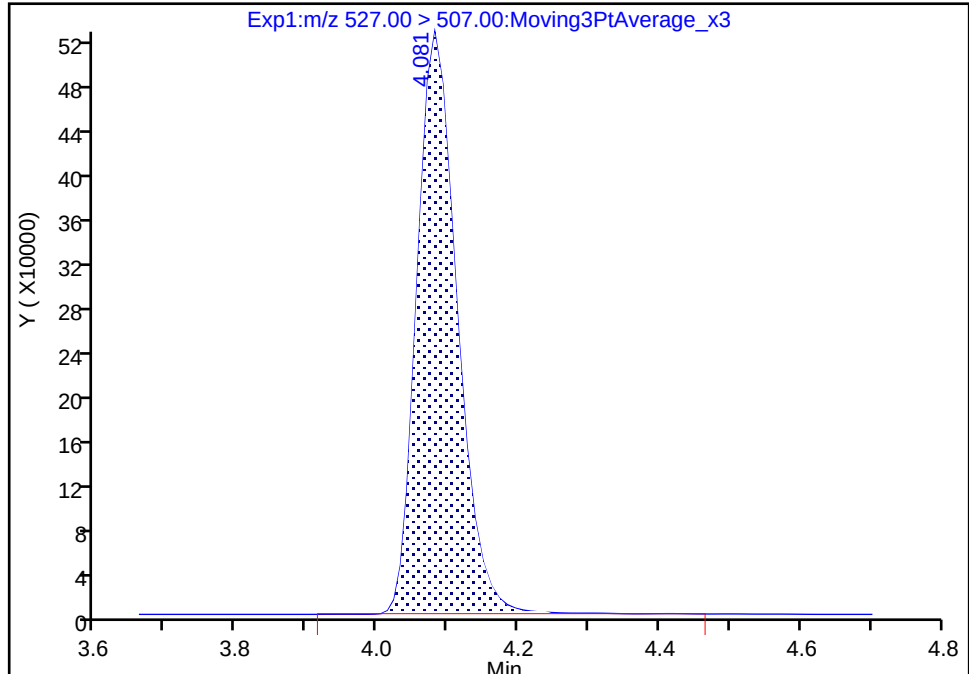
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

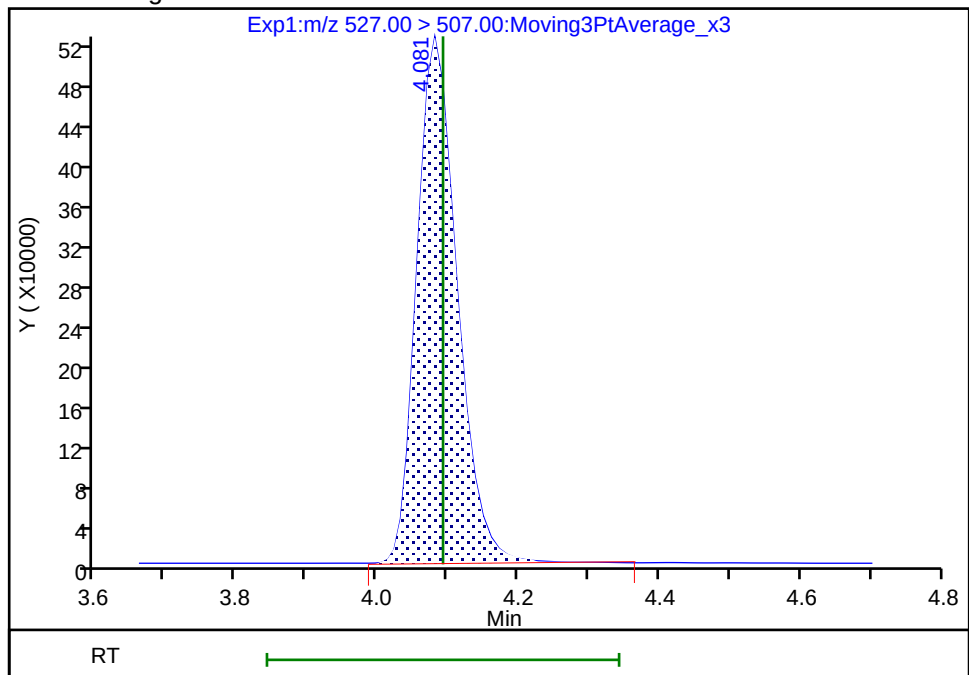
RT: 4.08
Area: 2103456
Amount: 2.477801
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2099569
Amount: 2.473222
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:42:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

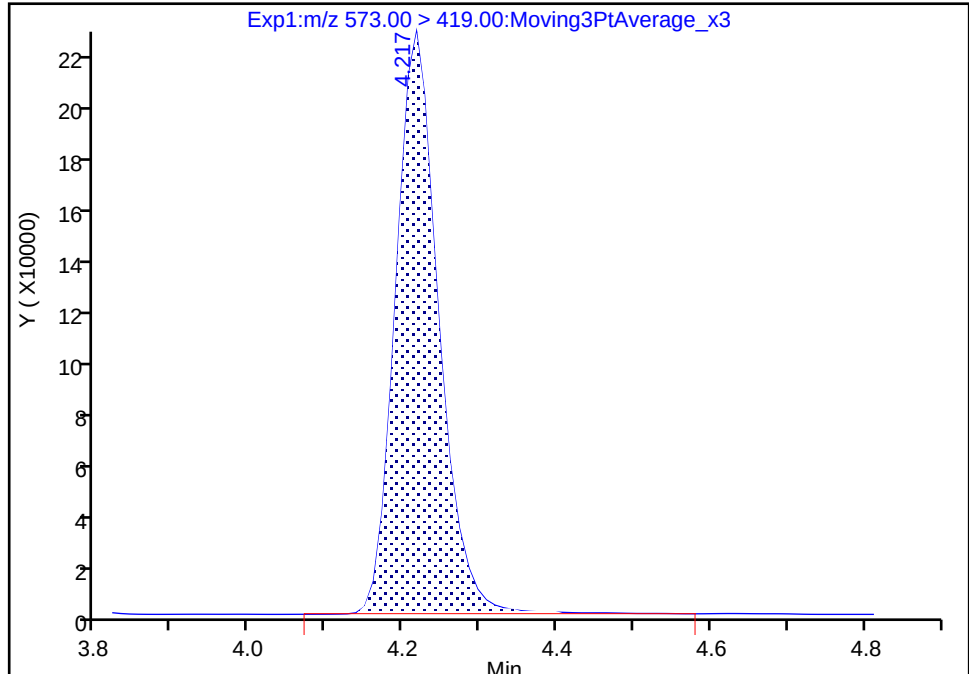
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

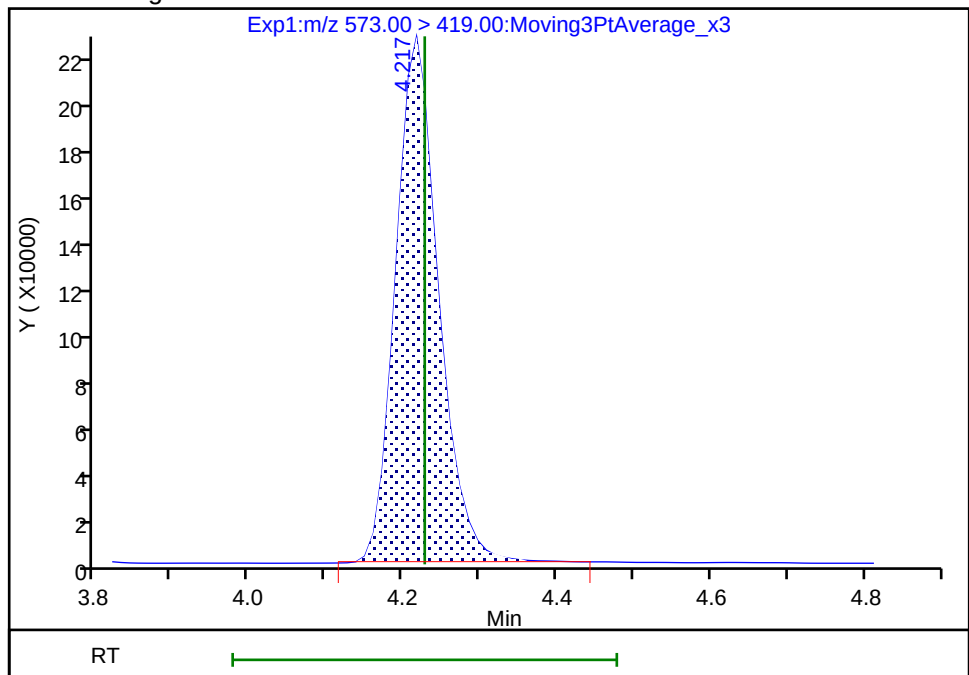
RT: 4.22
Area: 859383
Amount: 1.841359
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 853154
Amount: 1.828013
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:39:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

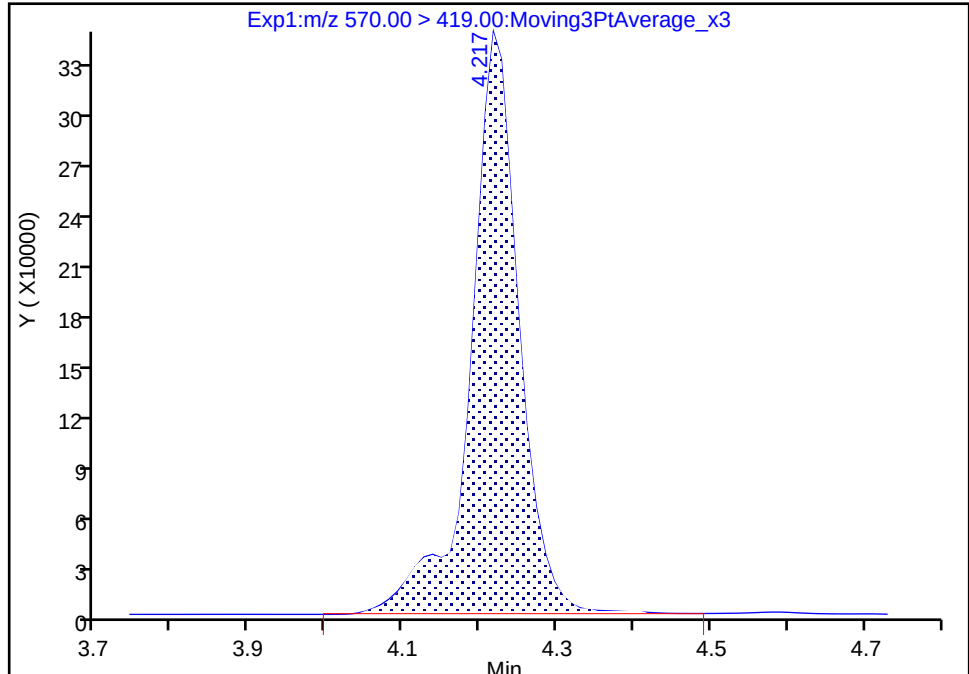
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

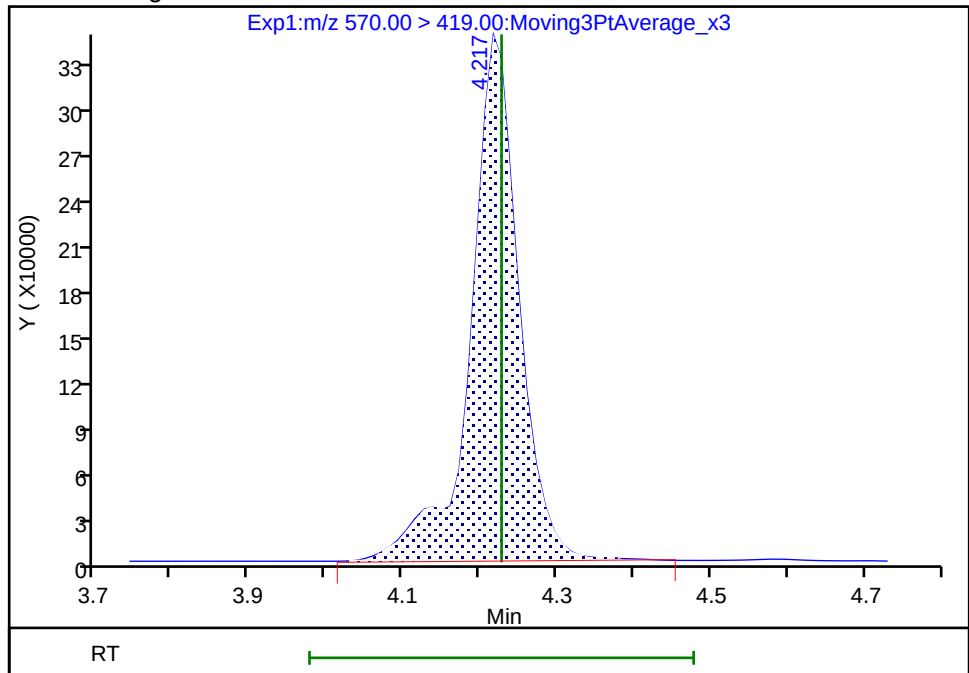
RT: 4.22
Area: 1512640
Amount: 2.564673
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 1503631
Amount: 2.549329
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:42:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

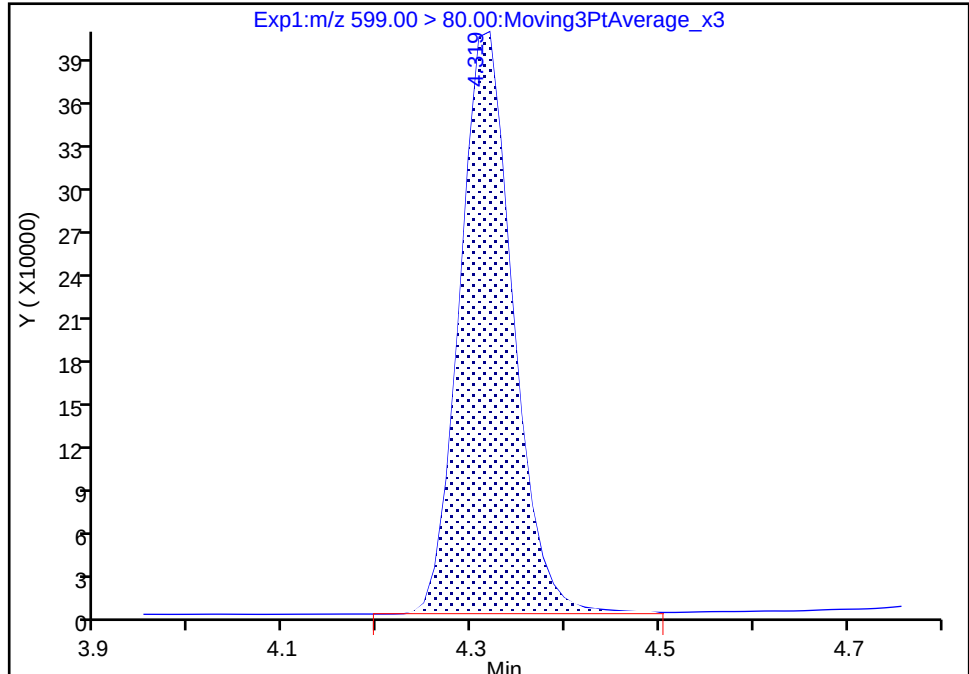
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

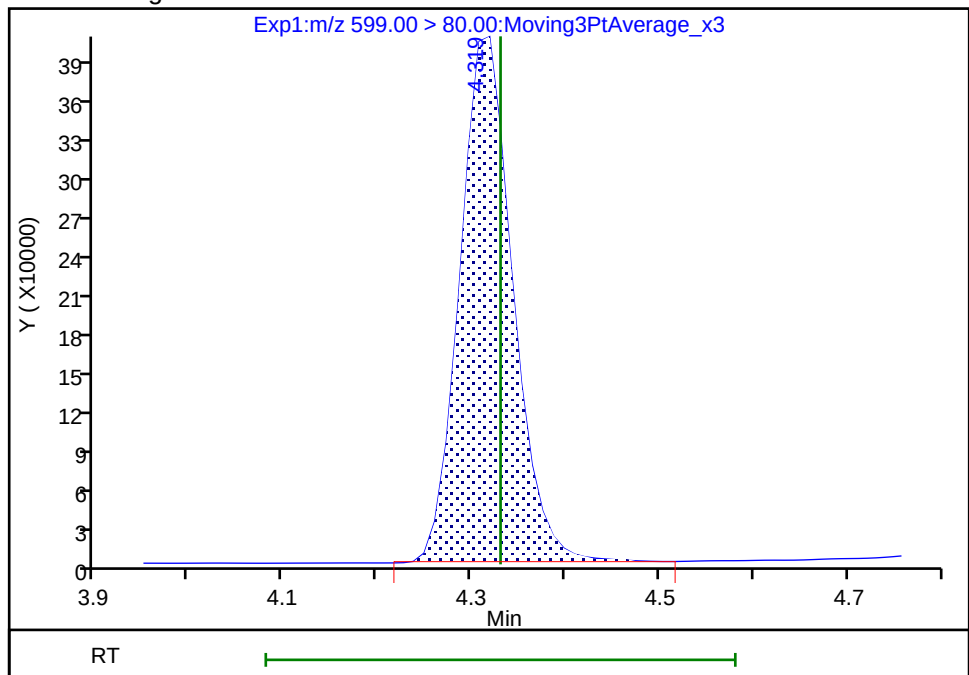
RT: 4.32
Area: 1604693
Amount: 2.230329
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 1593458
Amount: 2.214714
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:42:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

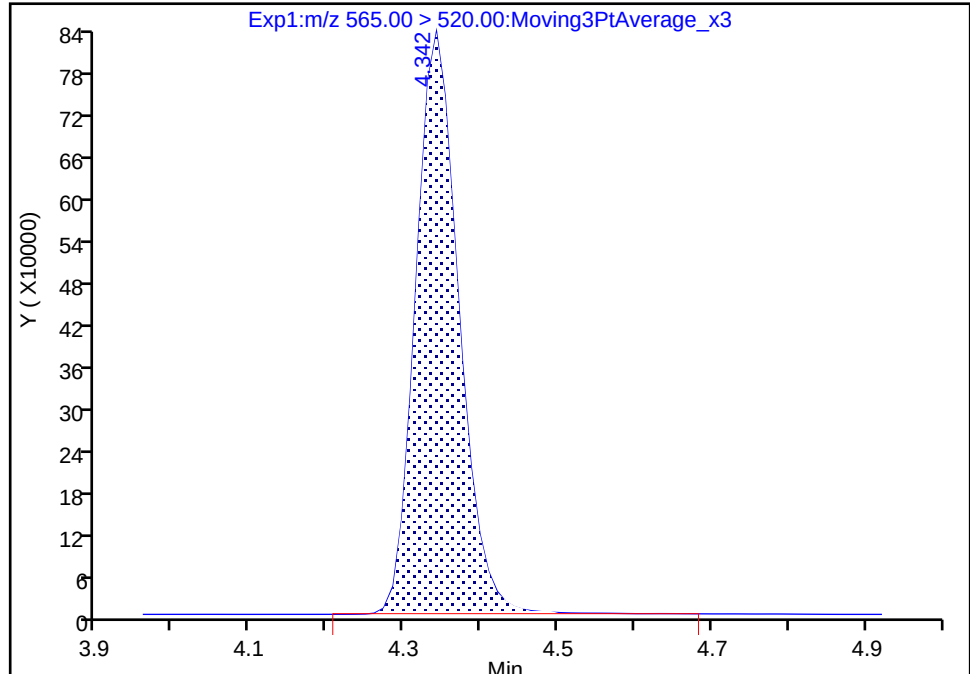
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

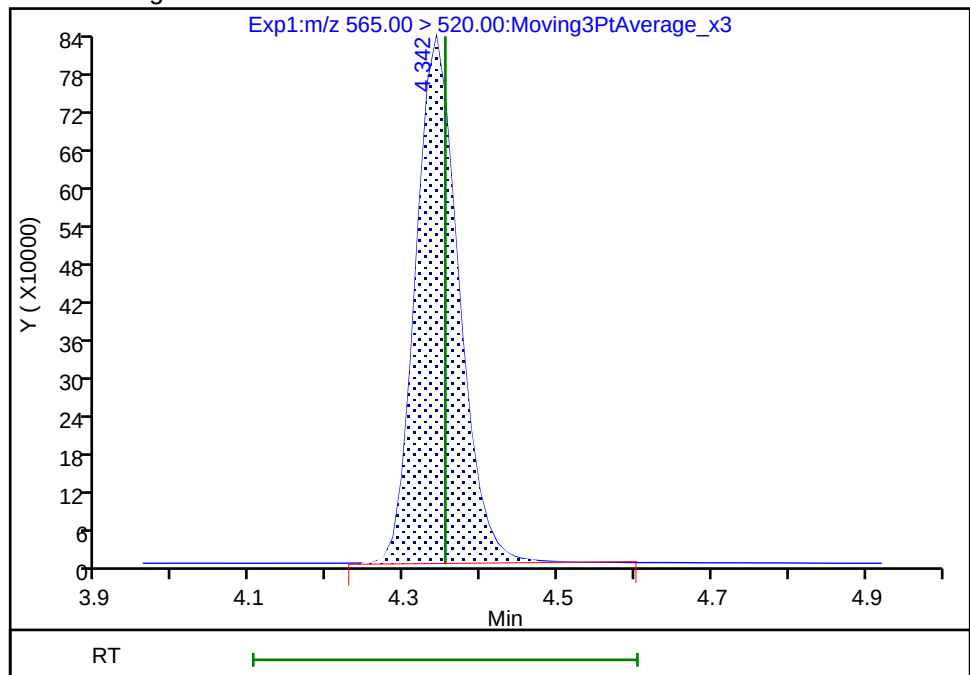
RT: 4.34
Area: 3246529
Amount: 1.546739
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 3240543
Amount: 1.543887
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:39:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

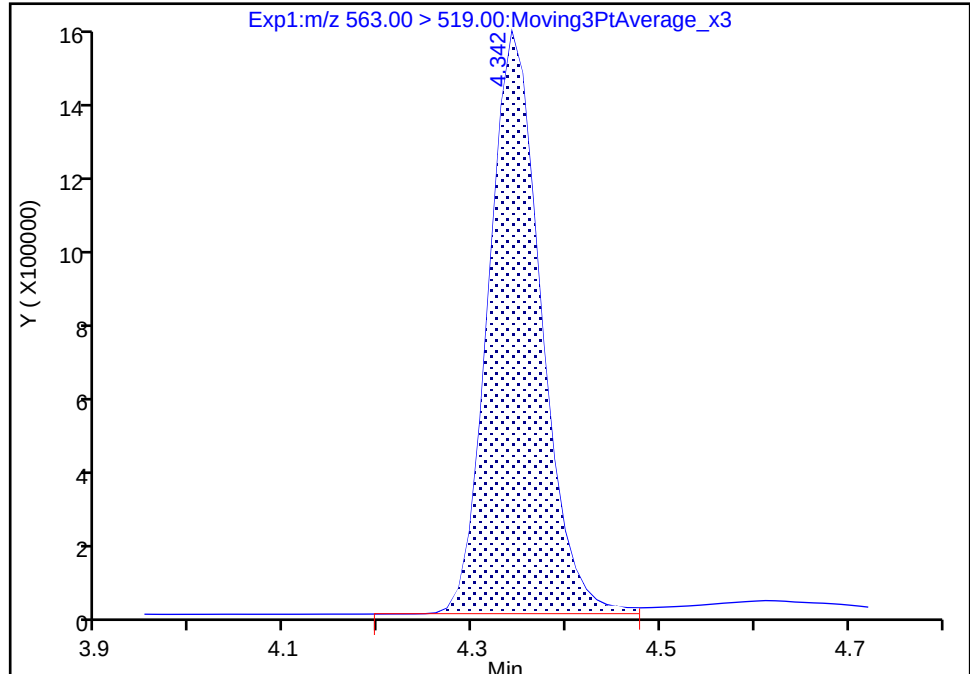
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

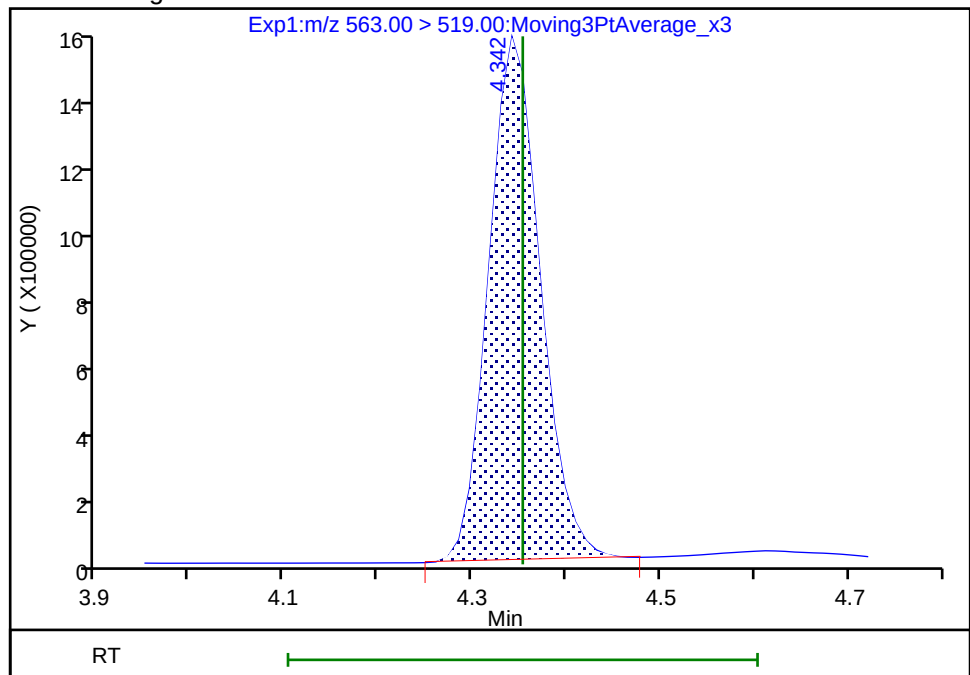
RT: 4.34
Area: 6088786
Amount: 2.330491
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 5961820
Amount: 2.281895
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:42:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d

Injection Date: 05-Jan-2023 17:41:07

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

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)

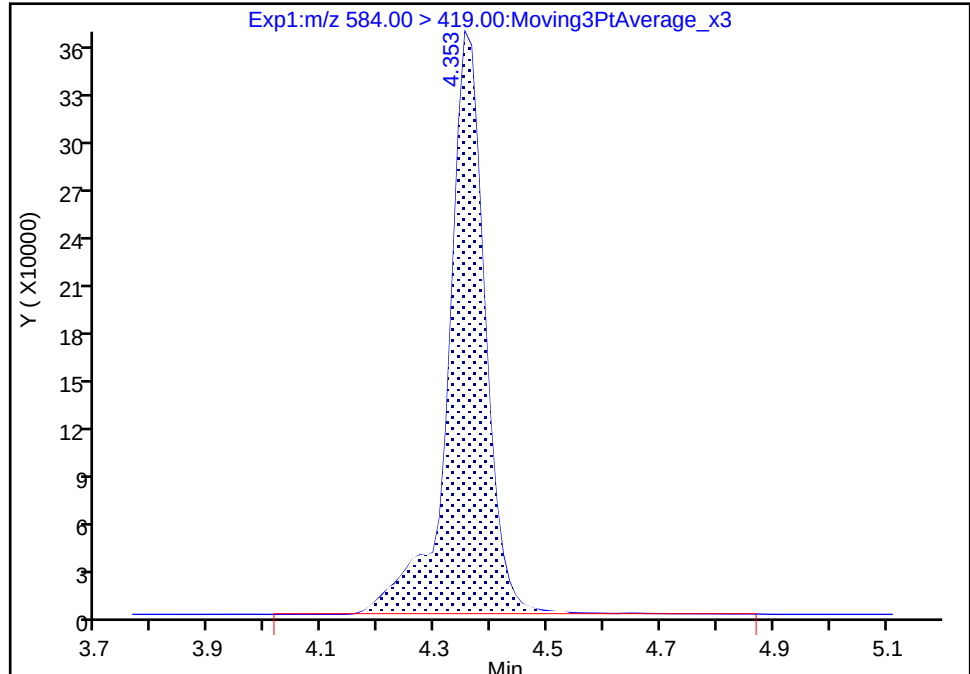
Detector: EXP1

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

Signal: 1

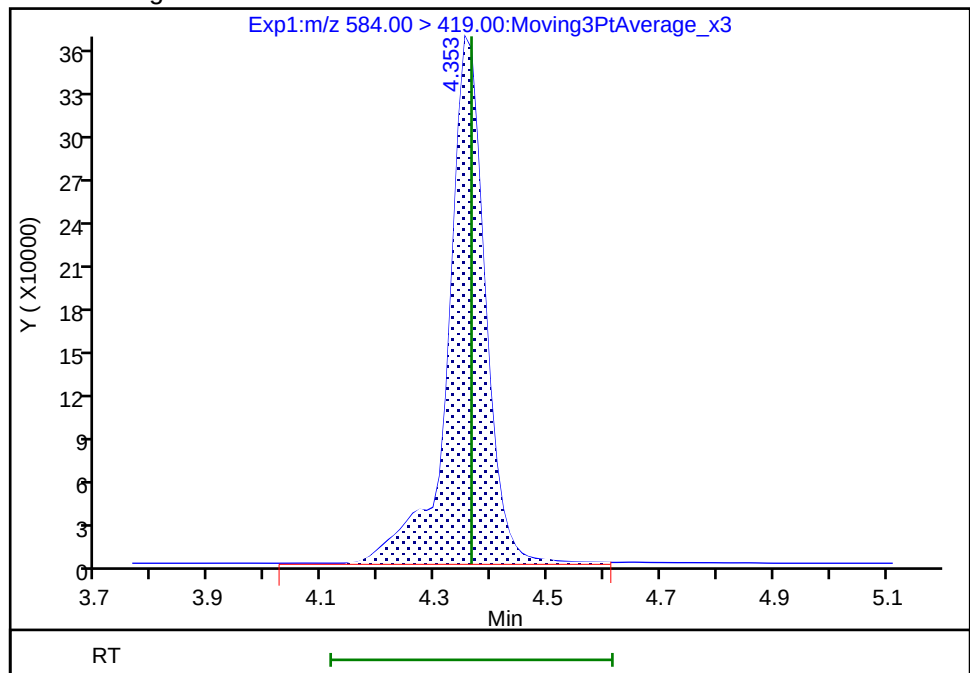
RT: 4.35
Area: 1676623
Amount: 2.376018
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1675490
Amount: 2.374412
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:43:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

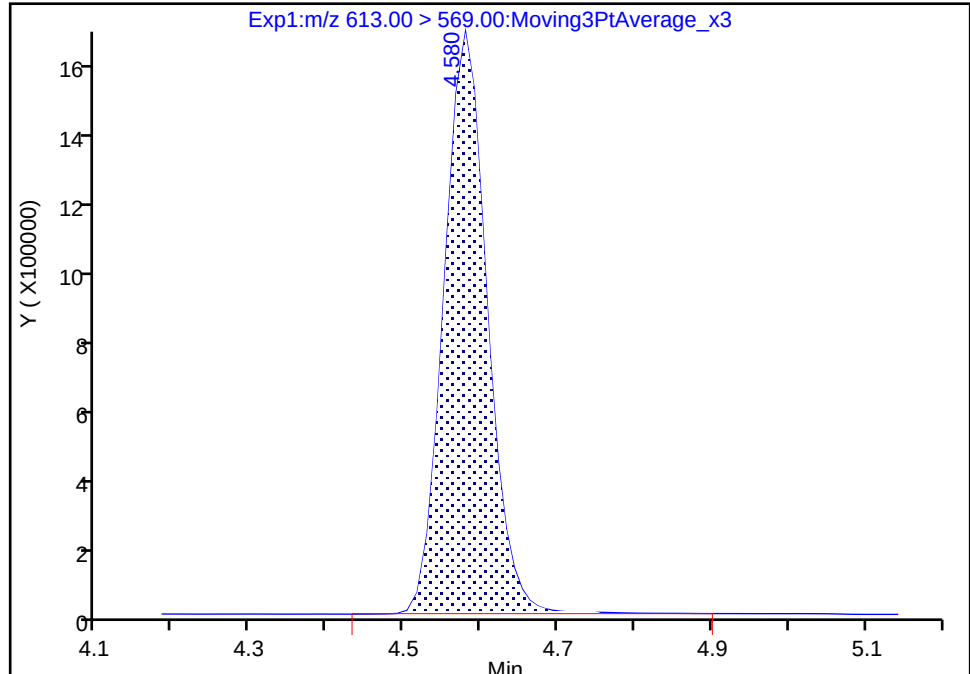
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

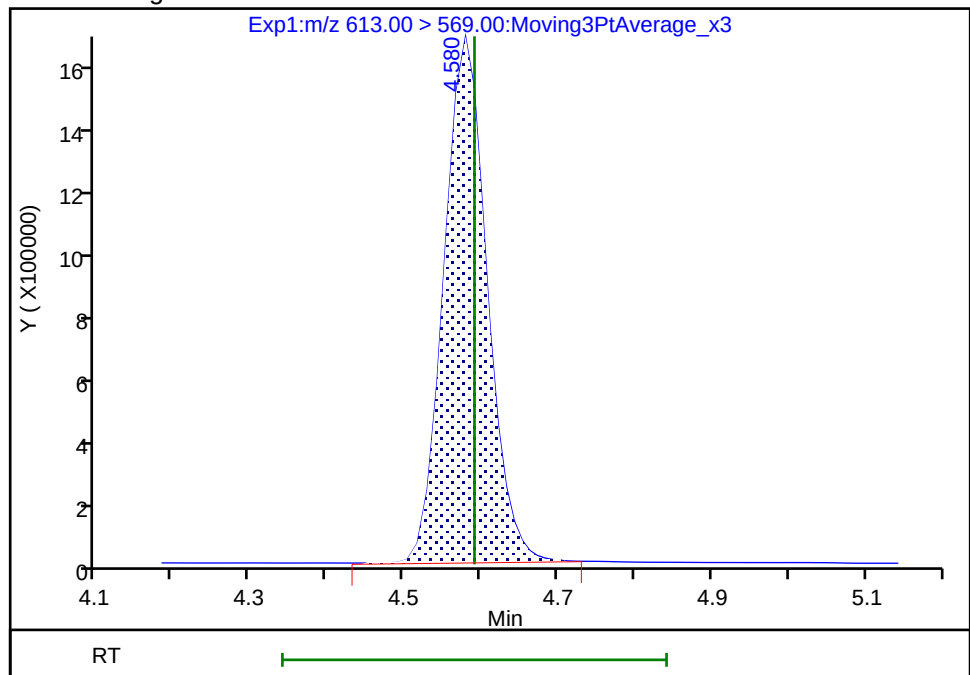
RT: 4.58
Area: 6356897
Amount: 2.236433
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 6338374
Amount: 2.229916
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:43:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

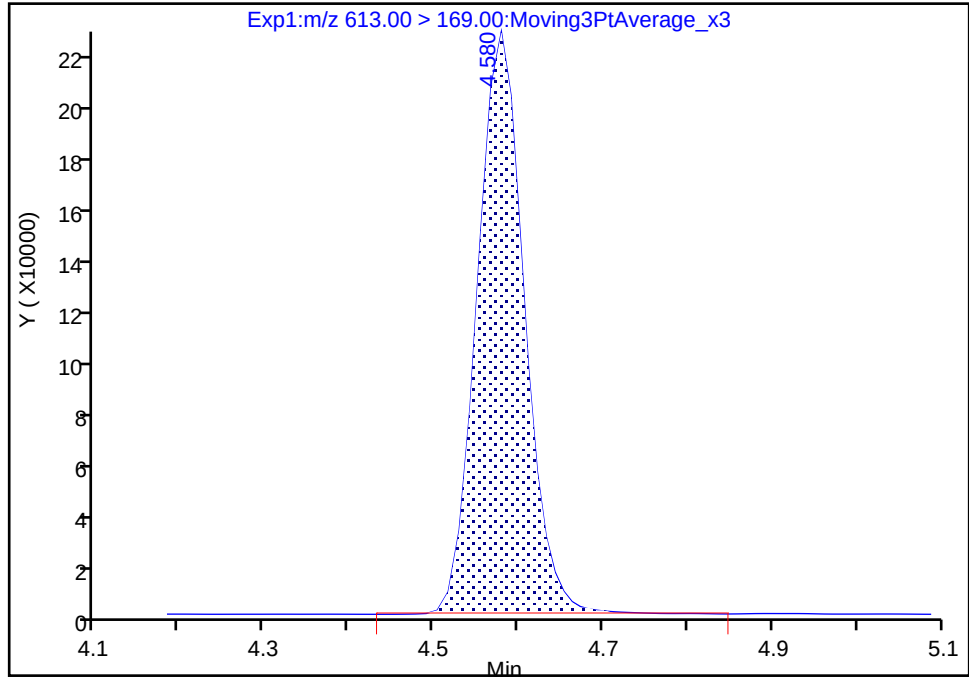
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

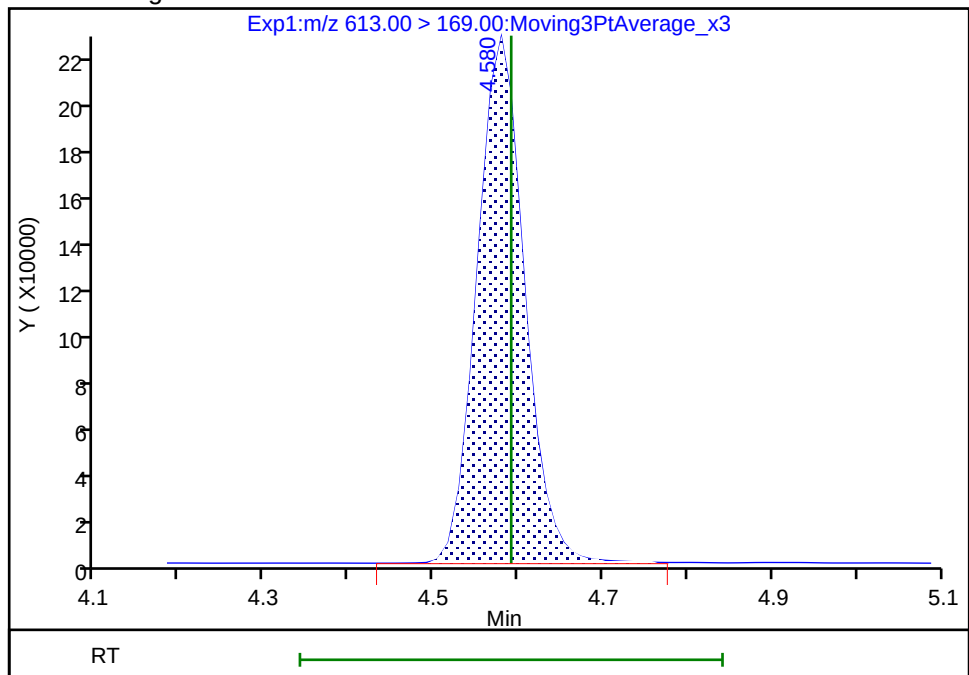
RT: 4.58
Area: 876811
Amount: 2.236433
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 876198
Amount: 2.229916
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:43:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

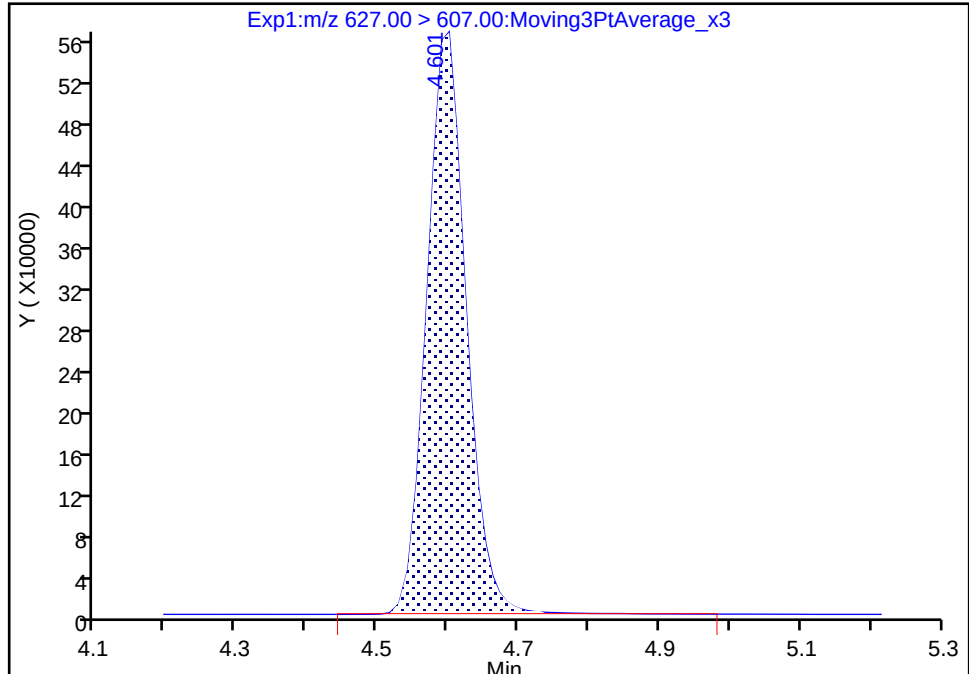
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

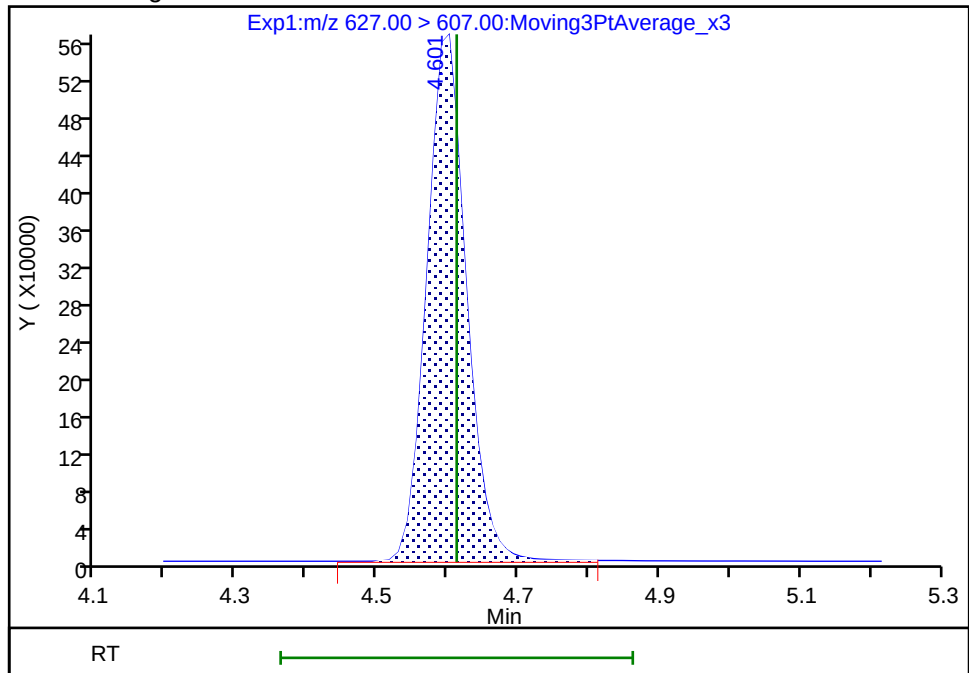
RT: 4.60
Area: 2179271
Amount: 4.272013
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 2176219
Amount: 4.266031
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:43:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

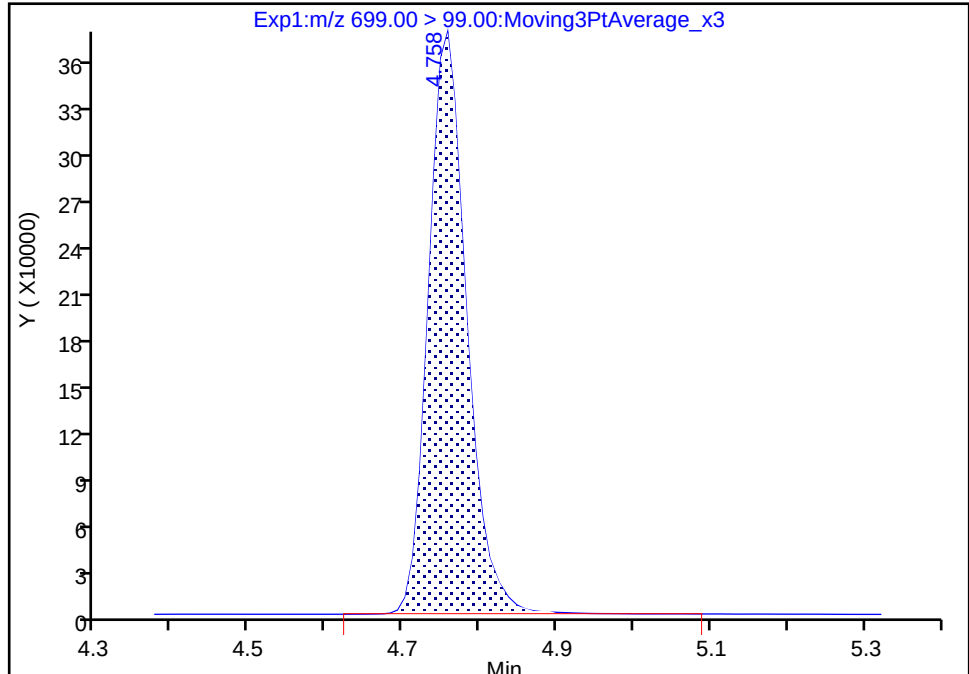
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

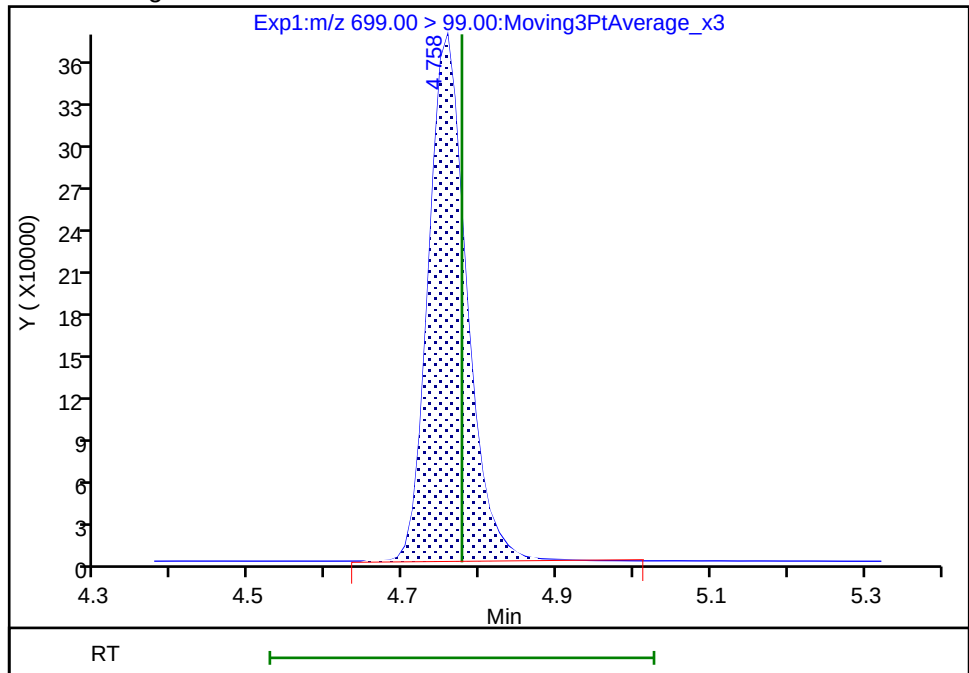
RT: 4.76
Area: 1311814
Amount: 2.312987
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 1310464
Amount: 2.302439
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:43:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

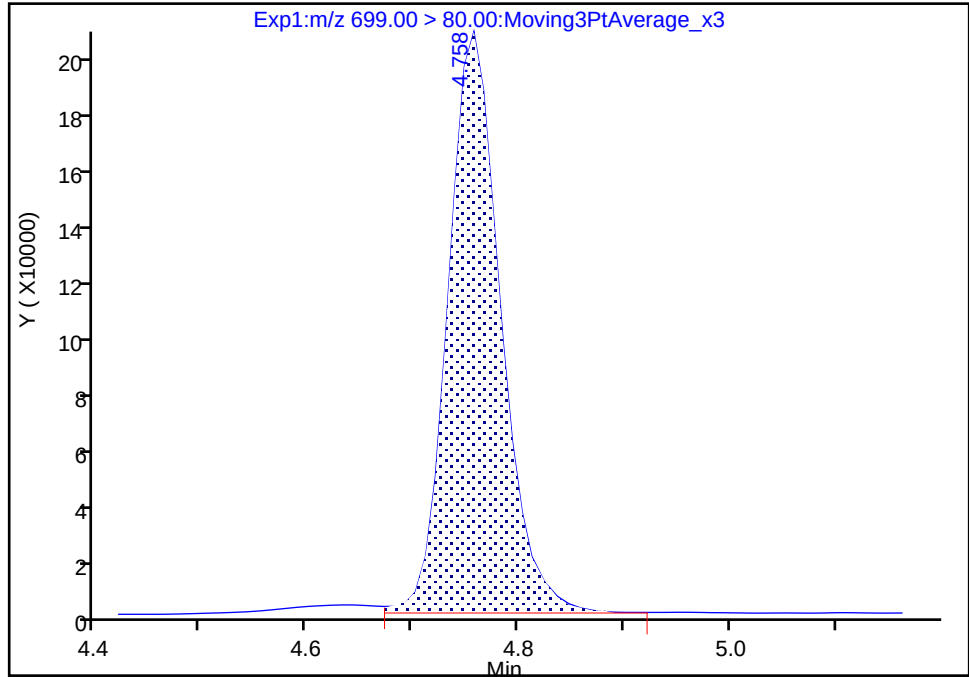
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

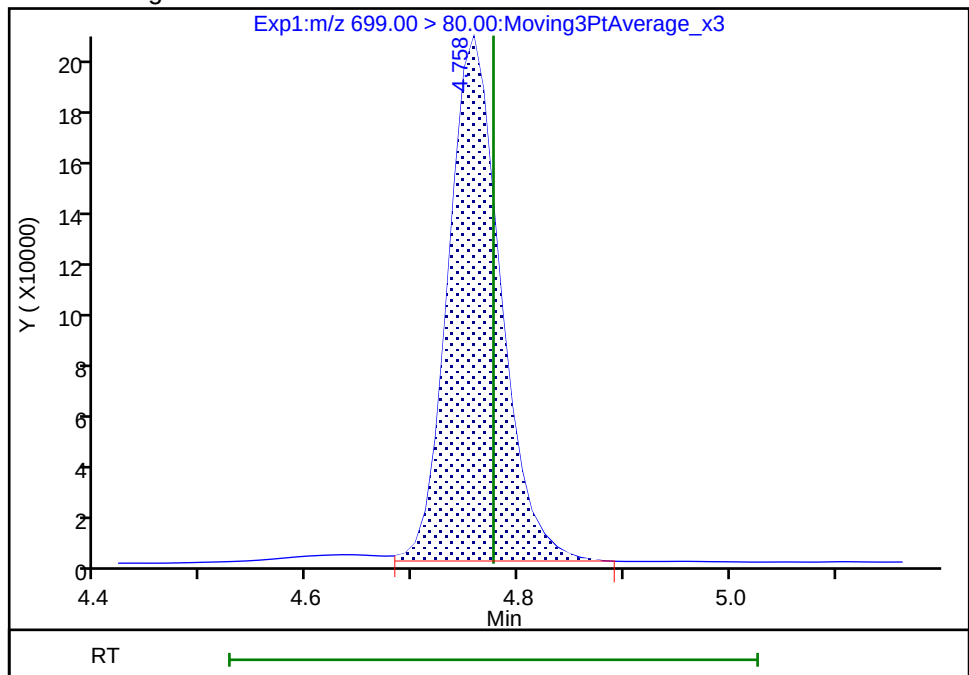
RT: 4.76
Area: 704112
Amount: 2.312987
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 700901
Amount: 2.302439
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:43:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

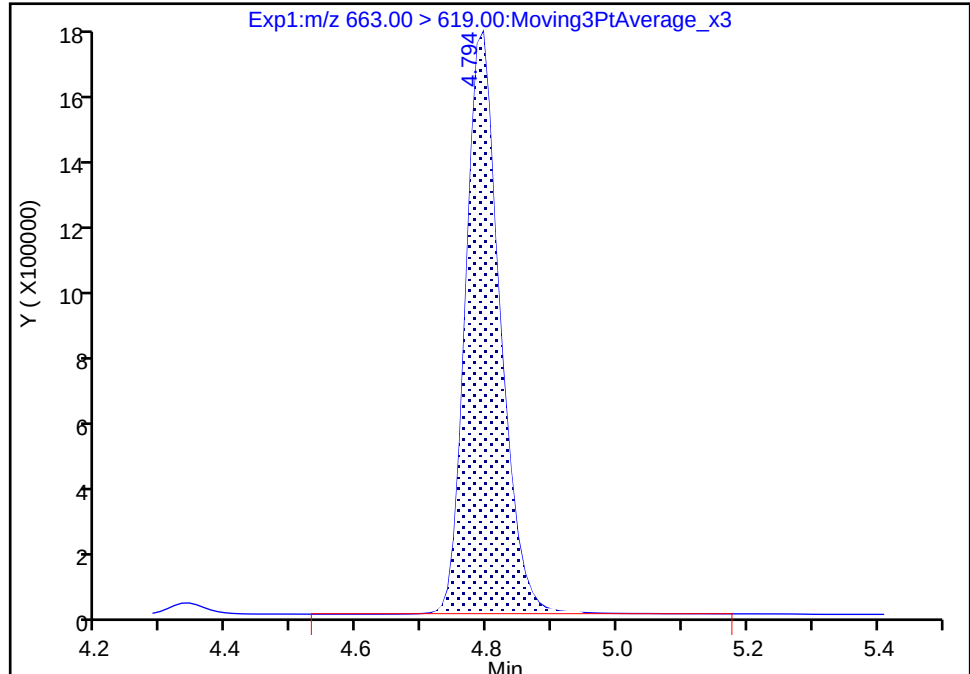
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

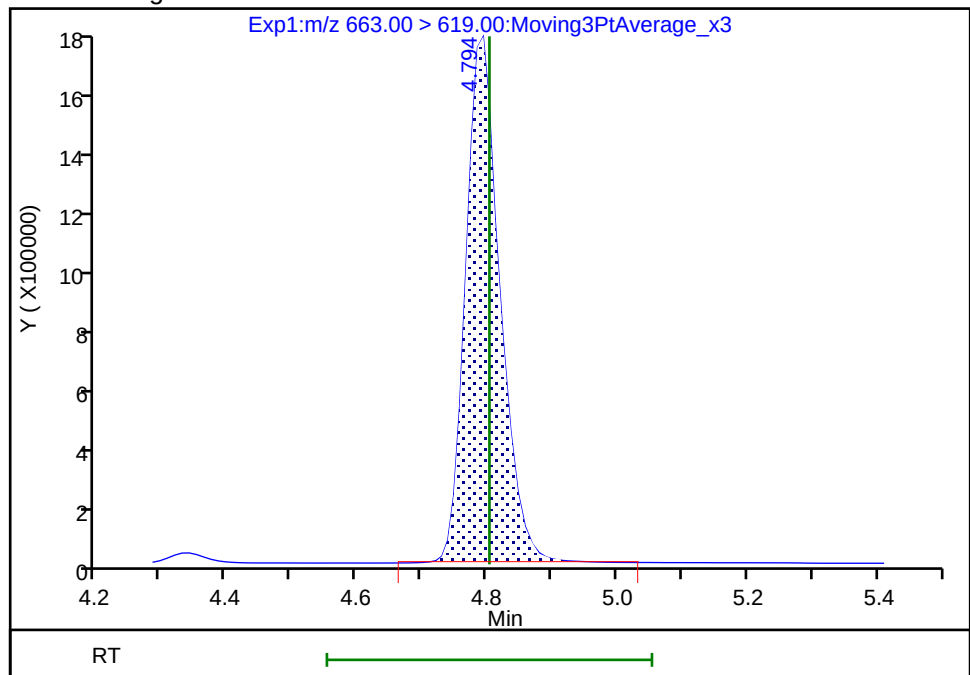
RT: 4.79
Area: 6485445
Amount: 2.385769
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 6463435
Amount: 2.377672
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:44:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

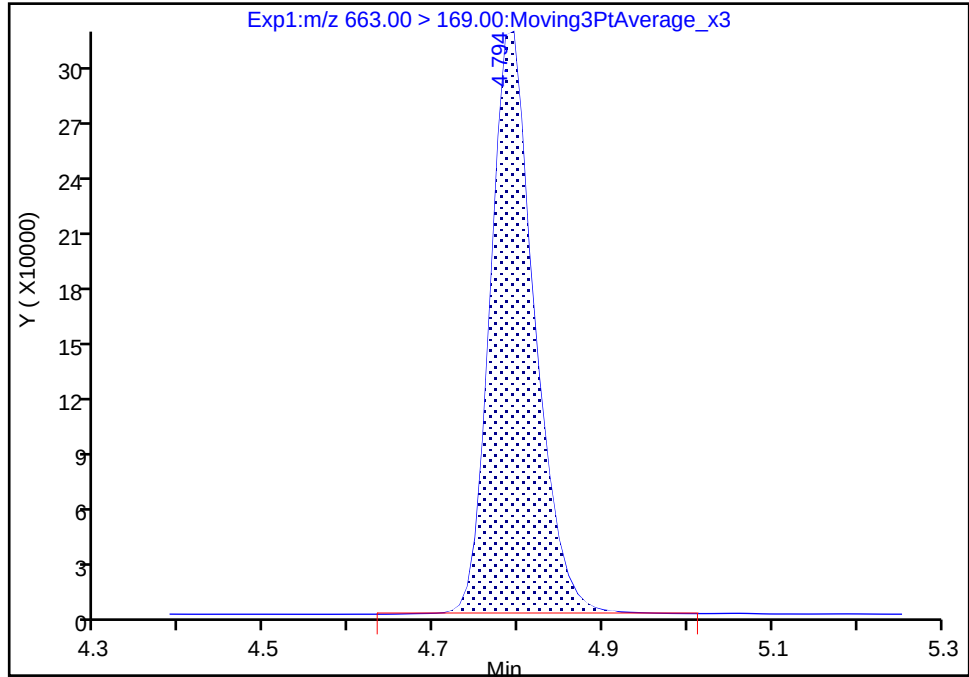
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

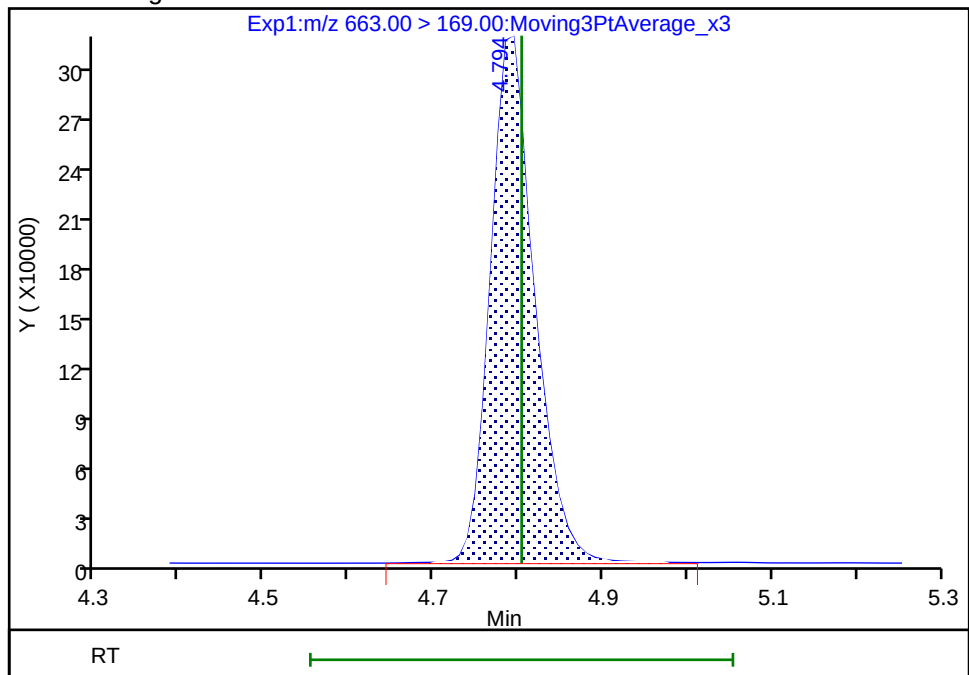
RT: 4.79
Area: 1157344
Amount: 2.385769
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 1152303
Amount: 2.377672
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:44:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

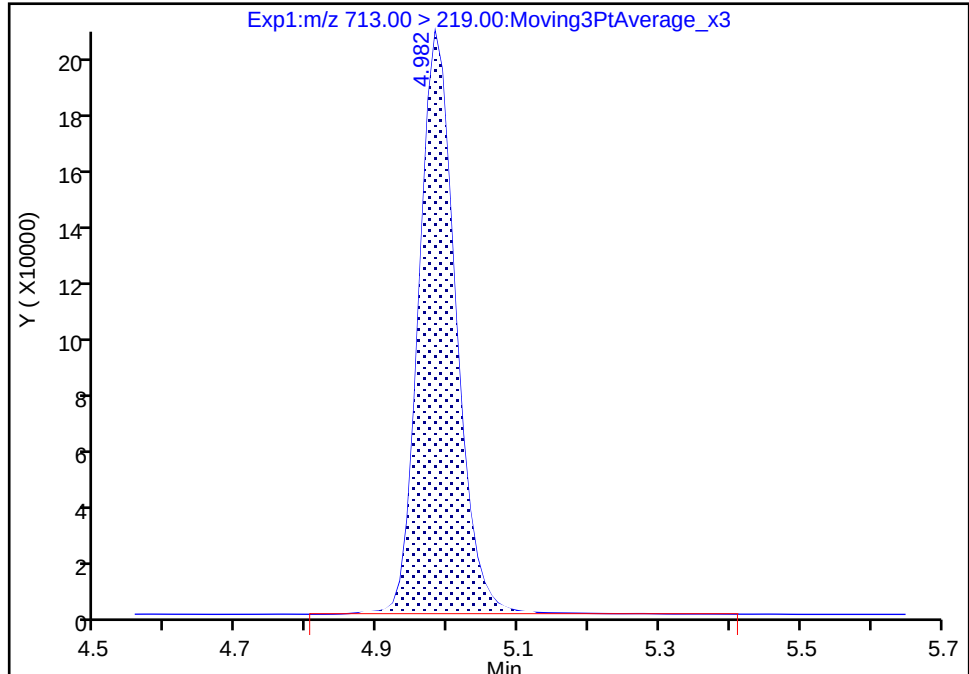
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A22.d
Injection Date: 05-Jan-2023 17:41:07 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

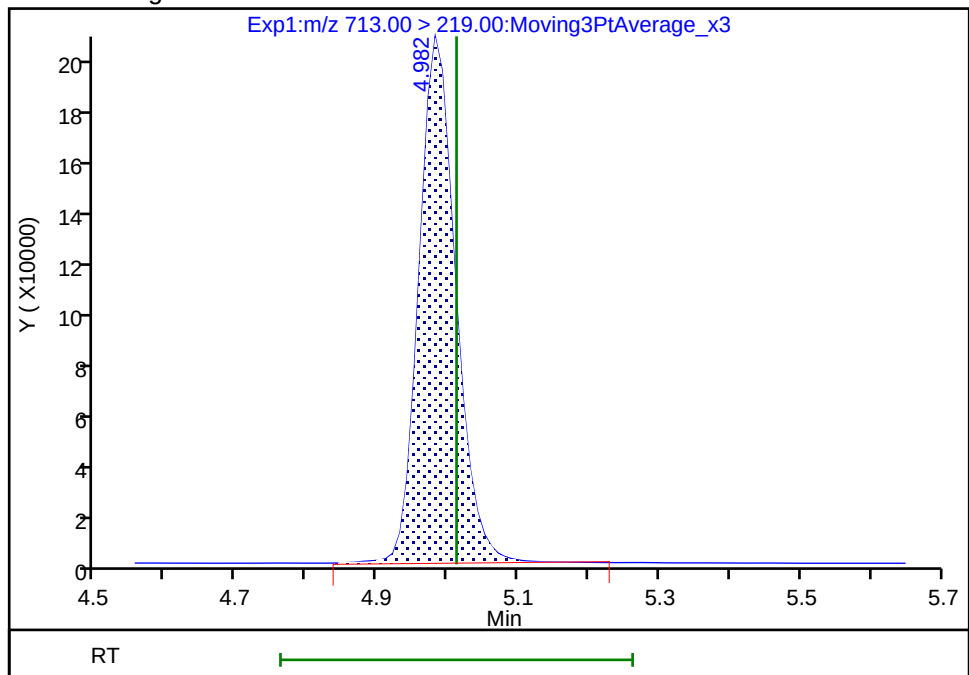
RT: 4.98
Area: 757806
Amount: 2.216561
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 752053
Amount: 2.216561
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:44:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Lab Sample ID: CCV 200-187284/32 Calibration Date: 01/05/2023 19:02

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA230105A32.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9245		0.897	1.00	-10.3	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.001		0.918	1.00	-8.2	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.027		0.794	0.884	-10.2	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.803		0.850	0.934	-9.0	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9840		0.903	1.00	-9.7	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.190		0.836	0.938	-10.9	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9375		0.888	1.00	-11.2	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.013		0.816	0.910	-10.3	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9751		0.896	1.00	-10.4	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.481		0.938	0.942	-0.5	
6:2 FTS	L1ID		2.148		0.952	0.948	0.4	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.300		0.886	0.952	-6.9	
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9469		0.886	1.00	-11.4	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.070		0.816	0.928	-12.1	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9429		0.909	1.00	-9.1	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.771		0.925	0.932	-0.7	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8524		0.892	0.960	-7.1	
Perfluorodecanoic acid (PFDA)	AveID	1.084	0.9763		0.900	1.00	-10.0	
8:2 FTS	AveID	1.617	1.621		0.961	0.958	0.3	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9328		0.893	1.00	-10.7	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8803		1.01	1.00	1.2	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6926		0.921	0.964	-4.4	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9295		0.922	1.00	-7.8	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8044		0.899	1.00	-10.1	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.304		0.942	0.942	0.0	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9492		0.896	1.00	-10.4	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.009		1.00	0.964	3.9	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2884		0.910	0.968	-5.9	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187284/32 Calibration Date: 01/05/2023 19:02
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA230105A32.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9694		0.957	1.00	-4.3	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1146		0.837	1.00	-16.3	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8803		0.940	1.00	-6.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8203		0.996	1.00	-0.4	
13C4 PFBA	Ave	1.122	1.000		1.12	1.25	-10.8	
13C5 PFPeA	Ave	0.8543	0.8036		1.18	1.25	-5.9	
13C3 PFBS	Ave	0.9281	0.8319		1.04	1.16	-10.4	
M2-4:2 FTS	Ave	0.0820	0.0786		1.12	1.17	-4.2	
13C2 PFHxA	Ave	0.8951	0.8430		1.18	1.25	-5.8	
13C3 HFPO-DA	Ave	0.1580	0.1537		1.22	1.25	-2.7	
18O2 PFHxS	Ave	0.6761	0.6200		1.08	1.18	-8.3	50.0
13C4 PFHpA	Ave	0.9206	0.9059		1.23	1.25	-1.6	50.0
M2-6:2 FTS	Ave	0.1134	0.1186		1.24	1.19	4.6	
13C4 PFOA	Ave	1.035	1.036		1.25	1.25	0.1	50.0
13C4 PFOS	Ave	0.4588	0.4047		1.05	1.20	-11.8	50.0
13C5 PFNA	Ave	1.006	1.016		1.26	1.25	1.0	50.0
13C2 PFDA	Ave	1.025	1.105		1.35	1.25	7.8	
M2-8:2 FTS	Ave	0.1387	0.1406		1.21	1.20	1.4	
13C8 FOSA	Ave	0.8403	0.7733		1.15	1.25	-8.0	
d3-NMeFOSAA	Ave	0.2087	0.1958		1.17	1.25	-6.2	
13C2 PFUnA	Ave	0.9385	0.9810		1.31	1.25	4.5	
d5-NEtFOSAA	Ave	0.2055	0.2058		1.25	1.25	0.2	
13C2 PFDoA	Ave	0.9562	1.022		1.34	1.25	6.9	
13C2 PFTeDA	Ave	0.8270	0.9783		1.48	1.25	18.3	
13C2 PFHxDA	Ave	1.022	1.193		1.46	1.25	16.7	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Jan-2023 19:02:53 ALS Bottle#: 29 Worklist Smp#: 32
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053906-032 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:20:15 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 12:49:16

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										M
217.00 > 172.00	2.085	2.076	0.009	0.605	2864659	1.11		89.2	7719	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.004	2118667	0.8965		89.7	165	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	2301176	1.18		94.1	3123	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.387	0.013	1.006	1842422	0.9183		91.8	47.2	
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.400	0.013	0.700	2215444	1.04		89.6	150785	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.413	2.400	0.013	1.000	1730967	0.7939	Target=2.09	89.8	1012	
298.90 > 99.00	2.413	2.400	0.013	1.000	844935		2.05(1.04-3.13)		533	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	471363	0.8498		91.0	2122	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.784	210192	1.12		95.8	182	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.737	2.725	0.012	0.794	2413896	1.18		94.2	3809	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.000	1900262	0.9031	Target=14.25	90.3	252	M
313.00 > 119.00	2.737	2.725	0.012	1.000	133604		14.22(7.12-21.37)		171	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	1584921	0.8356	Target=3.04	89.1	1410	
349.00 > 99.00	2.737	2.737	0.0	0.887	539122		2.94(1.52-4.56)		980	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	330107	0.8878		88.8	1984	

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	2.835	0.0	0.822	440156	1.22		97.3	1850	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.896	1679490	1.08		91.7	3962	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.087	3.088	-0.001	1.000	1308657	0.8164	Target=3.66	89.7	1235	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	378103		3.46(1.83-5.49)		460	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.098	3.099	-0.001	0.899	2594054	1.23		98.4	3951	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.098	3.099	-0.001	1.000	2023549	0.8956	Target=3.97	89.6	393	
363.00 > 169.00	3.098	3.099	-0.001	1.000	529141		3.82(1.98-5.95)		845	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	4787013	0.9376	Target=3.16	99.5	4089	M
377.00 > 85.00	3.132	3.132	0.0	0.832	1476346		3.24(1.58-4.73)		1809	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.439	-0.001	0.997	322681	1.24		105	843	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.438	3.439	-0.001	1.000	553309	0.9520		100	530	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.438	3.439	-0.001	0.914	1147334	0.8860	Target=5.14	93.1	2389	
449.00 > 99.00	3.438	3.439	-0.001	0.914	236970		4.84(2.57-7.72)		1142	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.448	-0.002	1.000	2967002	1.25		100	7064	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.448	-0.002		2863612	1.25			7370	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.448	-0.002	1.000	2247647	0.8858	Target=2.79	88.6	156	
413.00 > 169.00	3.446	3.448	-0.002	1.000	802750		2.80(1.40-4.19)		1704	
D 18 13C4 PFOS										
503.00 > 80.00	3.762	3.764	-0.002	1.092	1107885	1.05		88.2	3039	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.762	3.764	-0.002	1.000	920168	0.8161	Target=5.11	87.9	709	M
499.00 > 99.00	3.762	3.764	-0.002	1.000	210487		4.37(2.55-7.66)		704	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.781	3.783	-0.002	1.000	2195240	0.9090	Target=8.55	90.9	464	
463.00 > 169.00	3.781	3.783	-0.002	1.000	260633		8.42(4.28-12.83)		1947	
D 19 13C5 PFNA										
468.00 > 423.00	3.781	3.783	-0.002	1.097	2910172	1.26		101	5877	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.927	3.928	-0.001	1.044	2394445	0.9253		99.3	5205	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	758668	0.8915	Target=2.53	92.9	2283	
549.00 > 99.00	4.050	4.050	0.0	1.076	297022		2.55(1.27-3.80)		1291	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	3164219	1.35		108	6114	

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	4.081	4.081	0.0	1.000	2471335	0.9002	Target=10.26 10.36(5.13-15.38)	90.0	791	
513.00 > 169.00	4.081	4.081	0.0	1.000	238554				739	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.093	-0.001	1.187	385842	1.21		101	1083	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.093	-0.001	1.000	500462	0.9606		100	2395	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1652583	0.8929		89.3	1846	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2214566	1.15		92.0	2227	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.227	560571	1.17		93.8	740	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.228	0.0	1.000	394756	1.01		101	531	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.319	4.331	-0.012	1.148	618979	0.9212	Target=2.51 2.62(1.25-3.76)	95.6	2384	M
599.00 > 99.00	4.319	4.331	-0.012	1.148	236315				1505	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2809208	1.31		105	5247	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	2088967	0.9223	Target=9.88 10.42(4.94-14.82)	92.2	828	
563.00 > 169.00	4.353	4.353	0.0	1.000	200468				1716	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.364	4.365	-0.001	1.003	379302	0.8985		89.9	1409	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.263	589423	1.25		100	1065	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.181	3758857	0.9423		100	5178	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.000	2222756	0.8959	Target=7.77 7.66(3.89-11.66)	89.6	180	
613.00 > 169.00	4.580	4.591	-0.011	1.000	290092				2568	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.329	2927097	1.34		107	6820	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.601	4.612	-0.011	1.124	313557	1.00		104	2362	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.265	258846	0.9105	Target=0.50 0.52(0.25-0.76)	94.1	1411	
699.00 > 99.00	4.758	4.776	-0.018	1.265	498896				3140	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.047	2270065	0.9568	Target=5.21 5.89(2.60-7.81)	95.7	181	M
663.00 > 169.00	4.794	4.804	-0.010	1.047	385259				1486	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.992	5.012	-0.020	1.000	256743	0.8368	Target=0.89 0.91(0.44-1.33)	83.7	1355	
713.00 > 219.00	4.992	5.012	-0.020	1.000	281689				1327	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.992	5.012	-0.020	1.448	2801436	1.48		118	8008	M

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	5.355	5.367	-0.012	1.002	2405985	0.9403	Target=5.65	94.0	198	
813.00 > 169.00	5.344	5.367	-0.023	1.000	380715		6.32(2.82-8.47)		2049	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.551	3416236	1.46		117	6108	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.695	5.722	-0.027	1.066	2241994	1.00	Target=6.24	99.6	199	M
913.00 > 169.00	5.695	5.722	-0.027	1.066	307302		7.30(3.12-9.36)		739	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\20230105-53906.b\PA230105A32.d

Injection Date: 05-Jan-2023 19:02:53

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 29

Worklist Smp#: 32

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

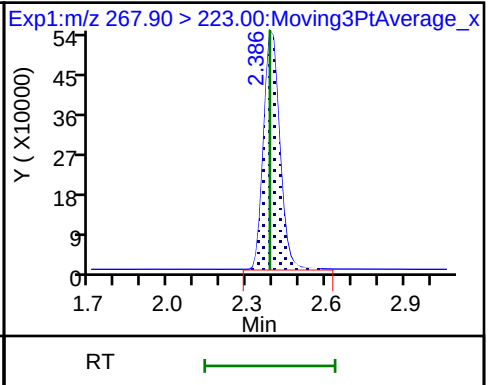
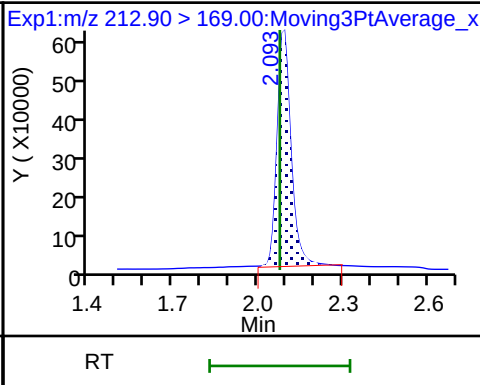
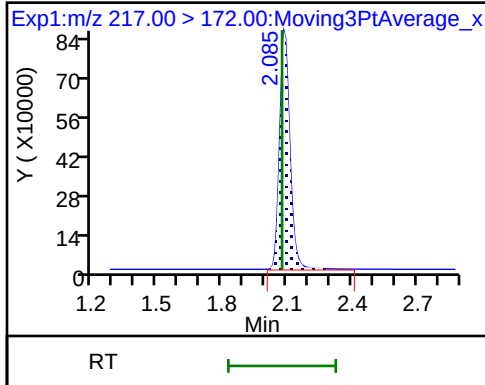
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

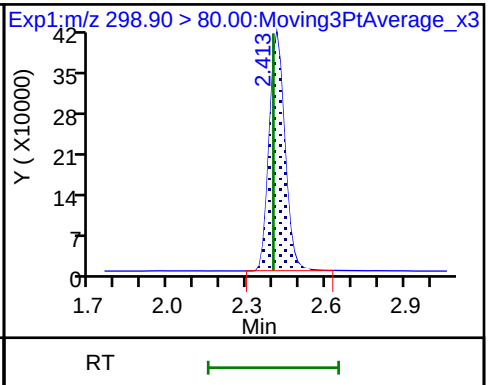
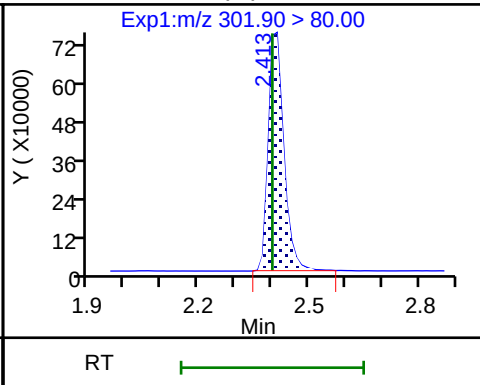
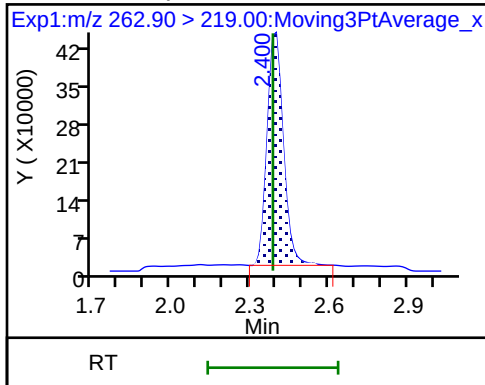
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

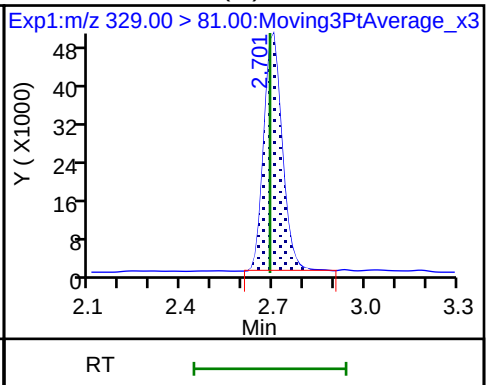
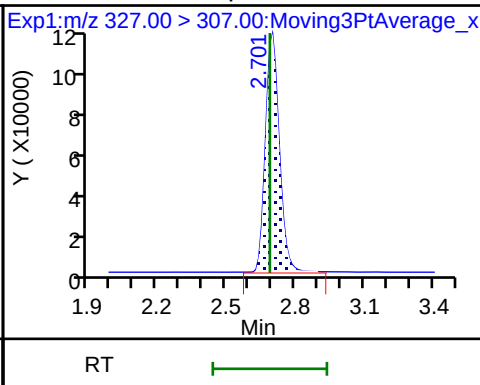
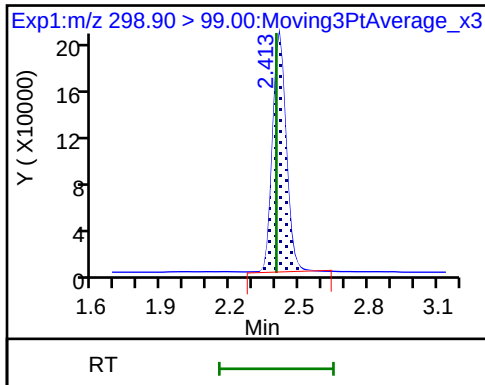
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

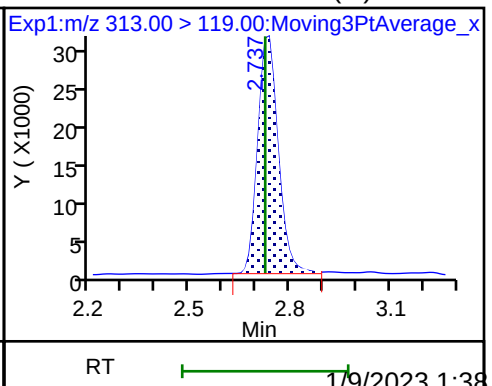
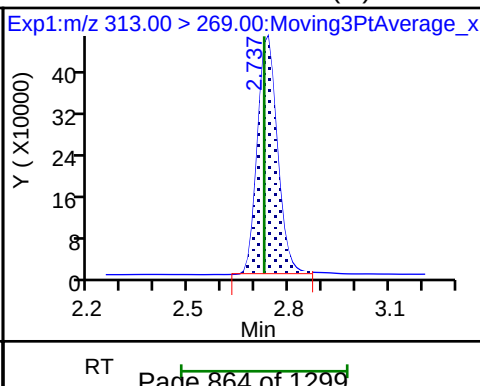
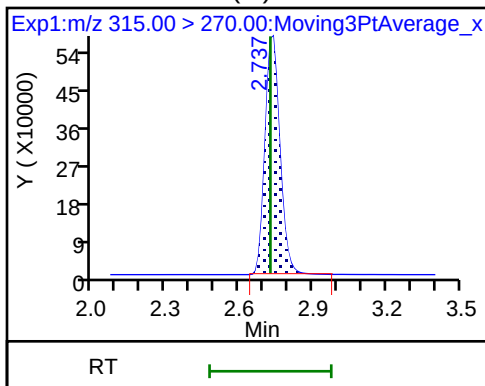
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

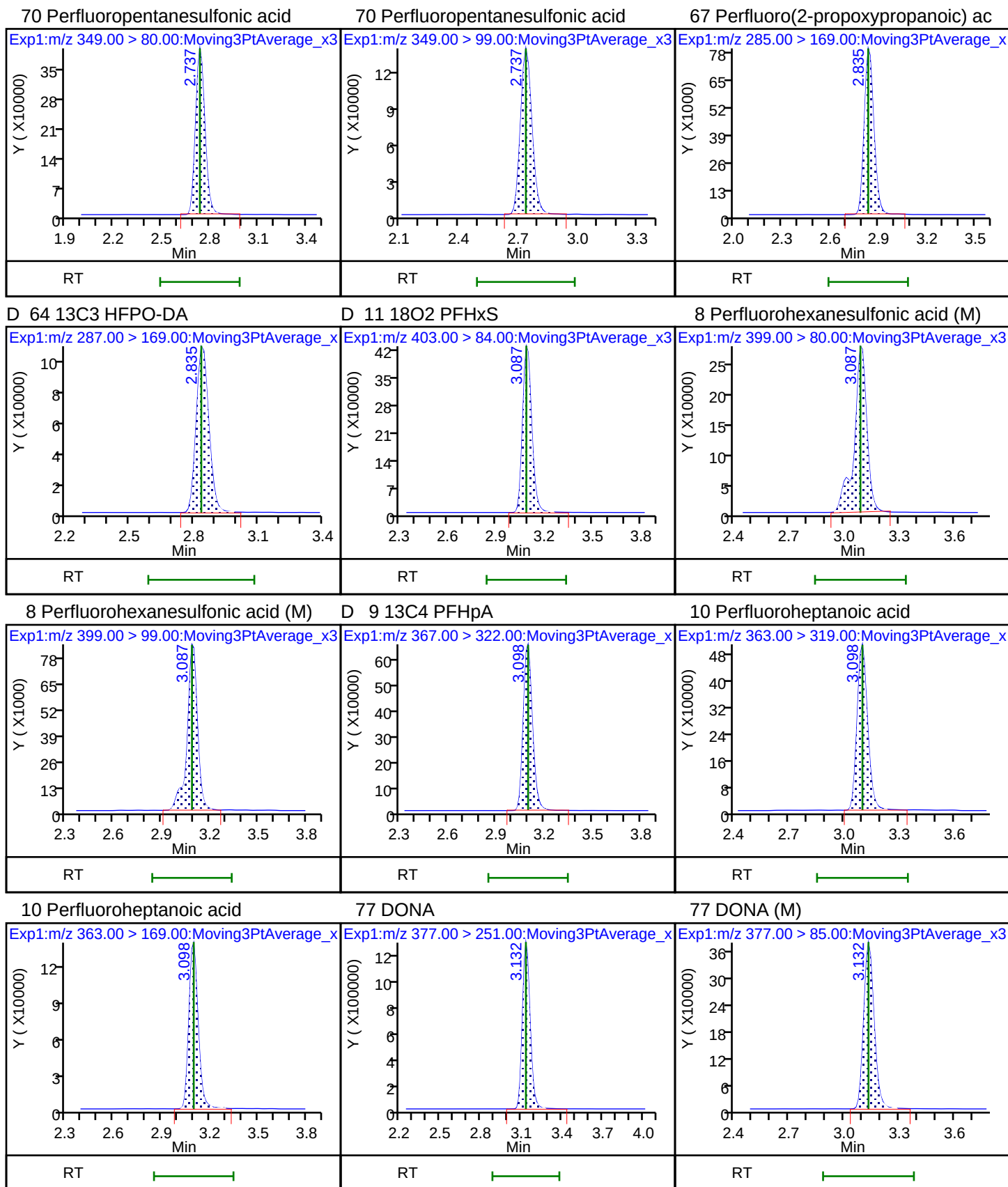


D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

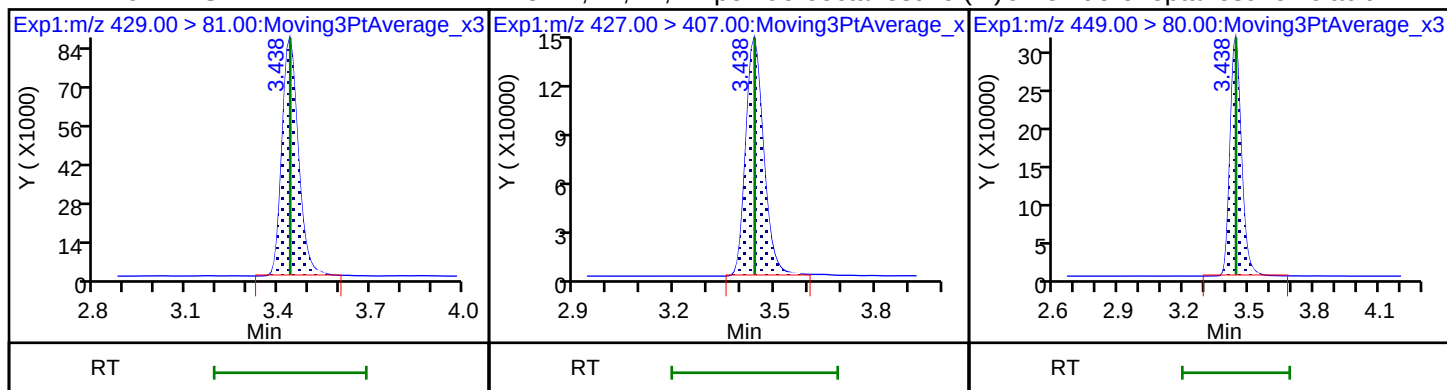
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

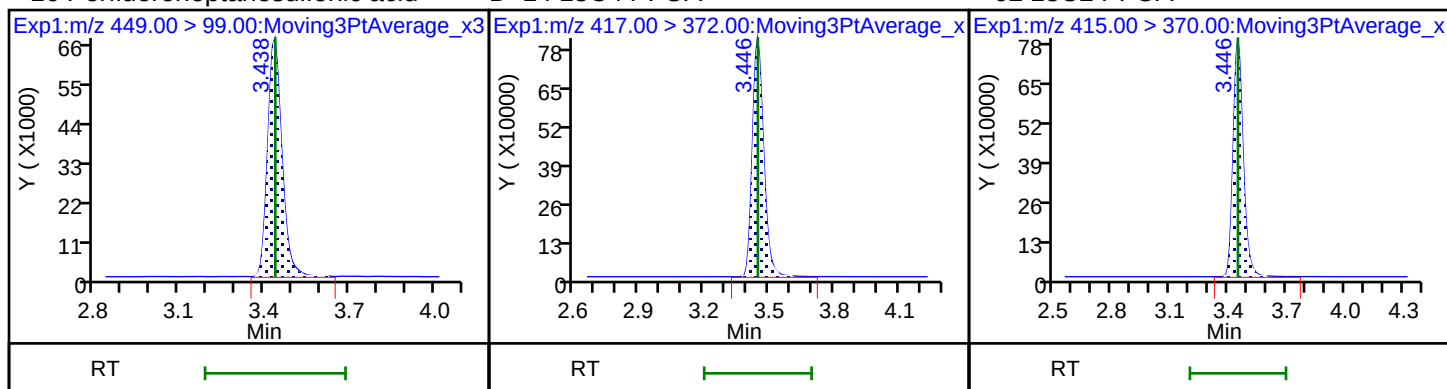
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

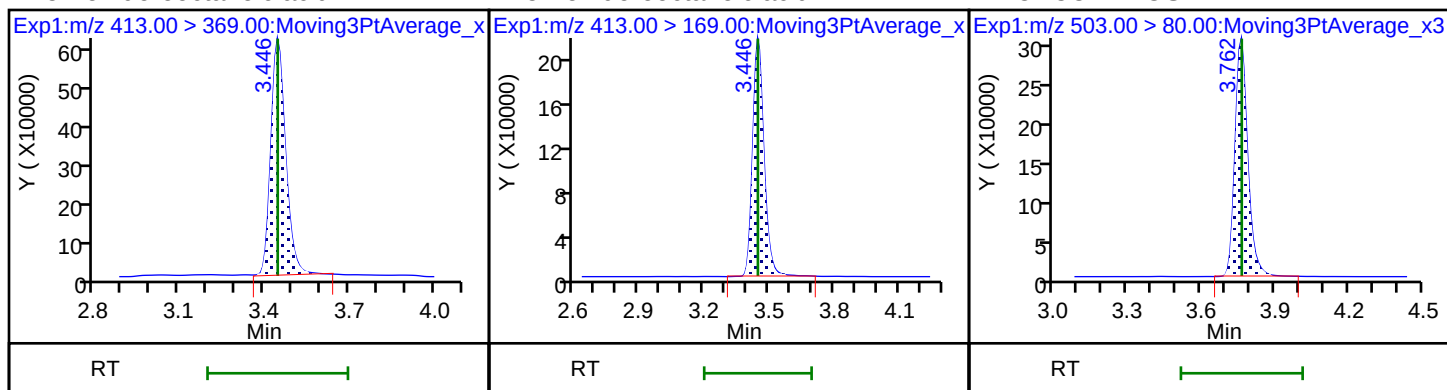
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

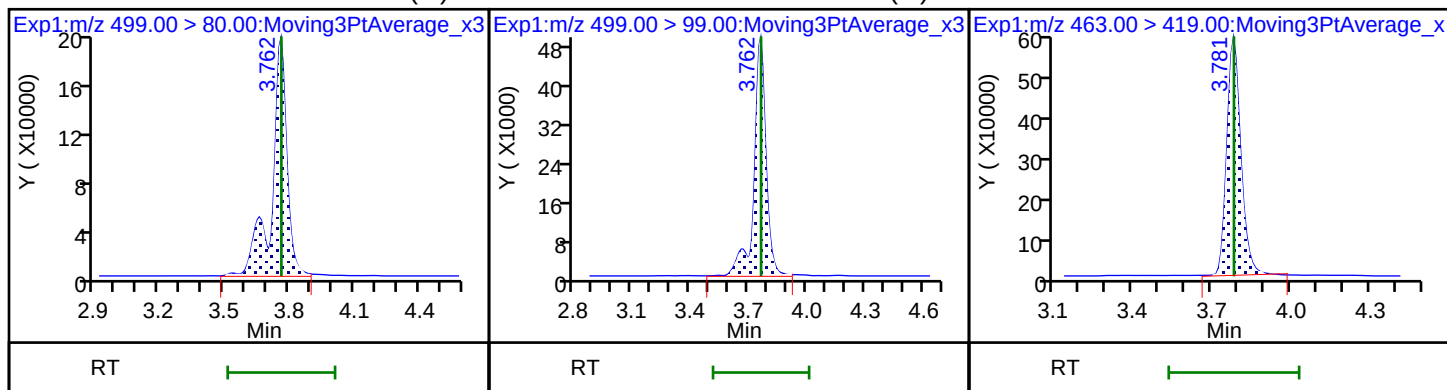
D 18 13C4 PFOS

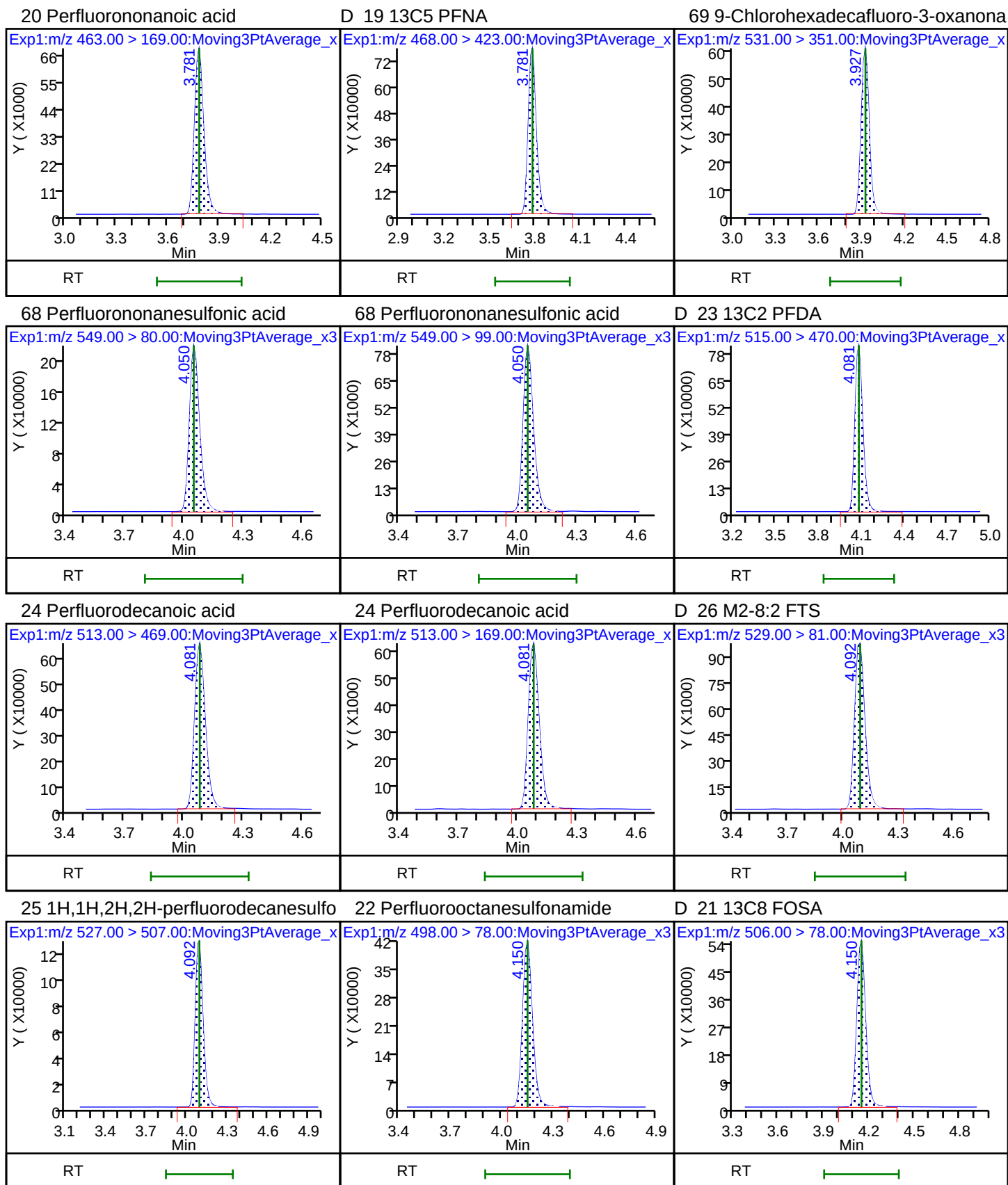


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

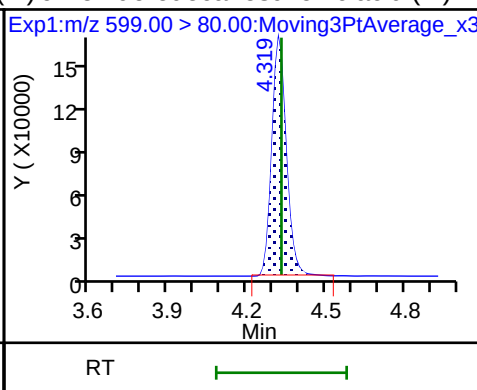
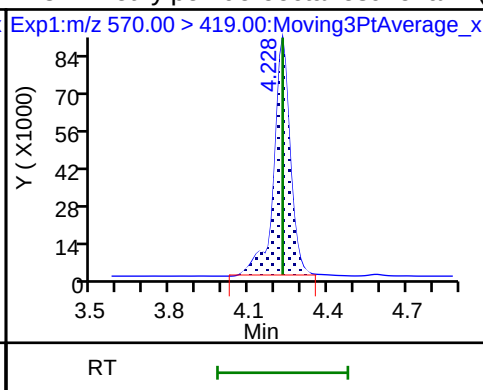
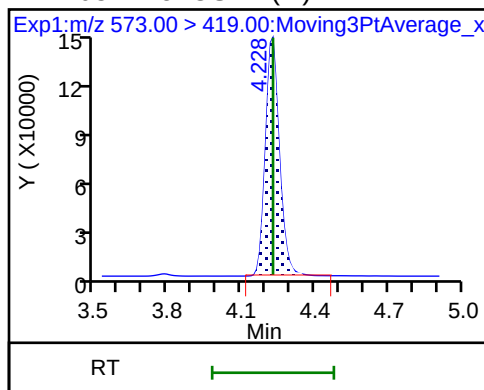




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

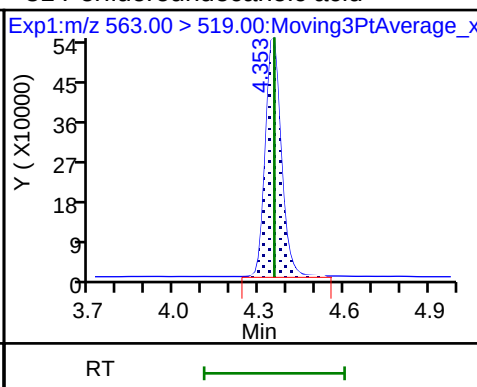
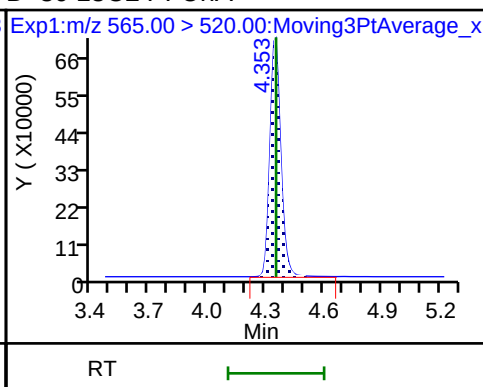
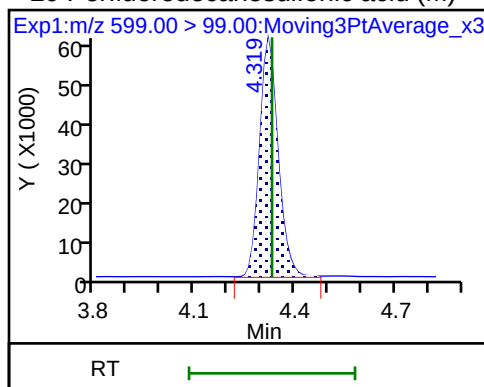
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

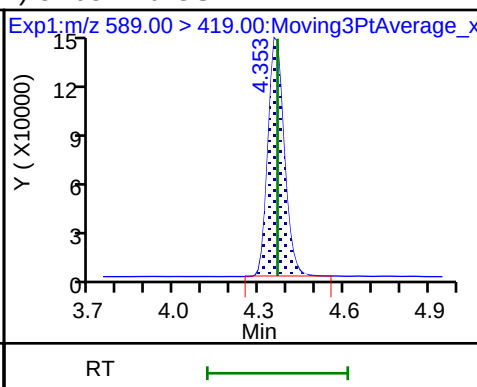
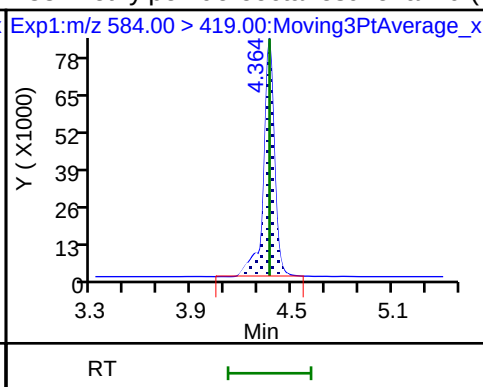
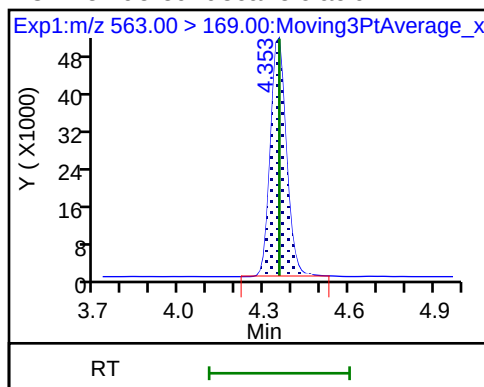
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

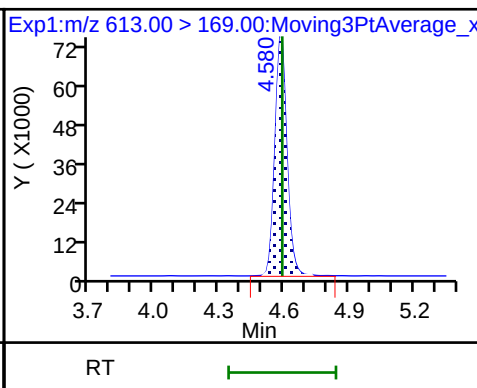
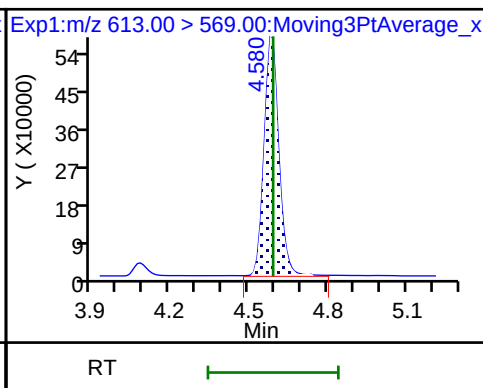
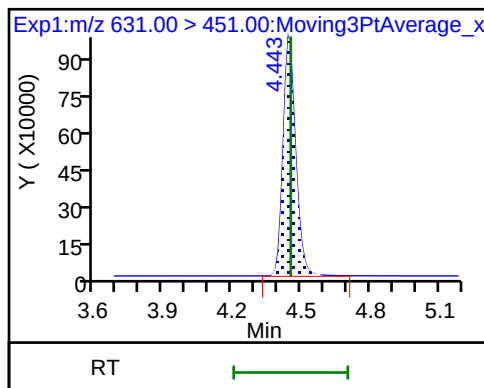
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

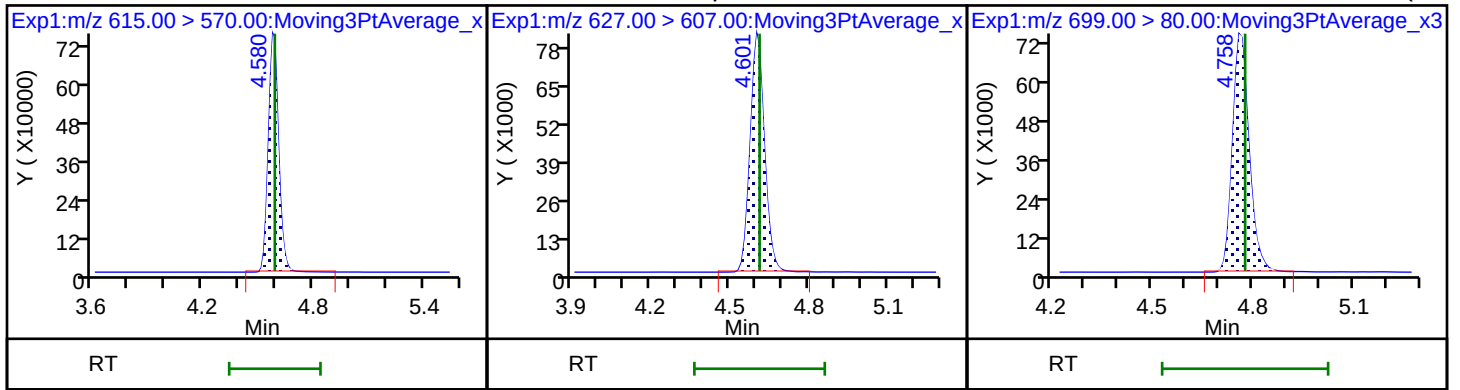
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

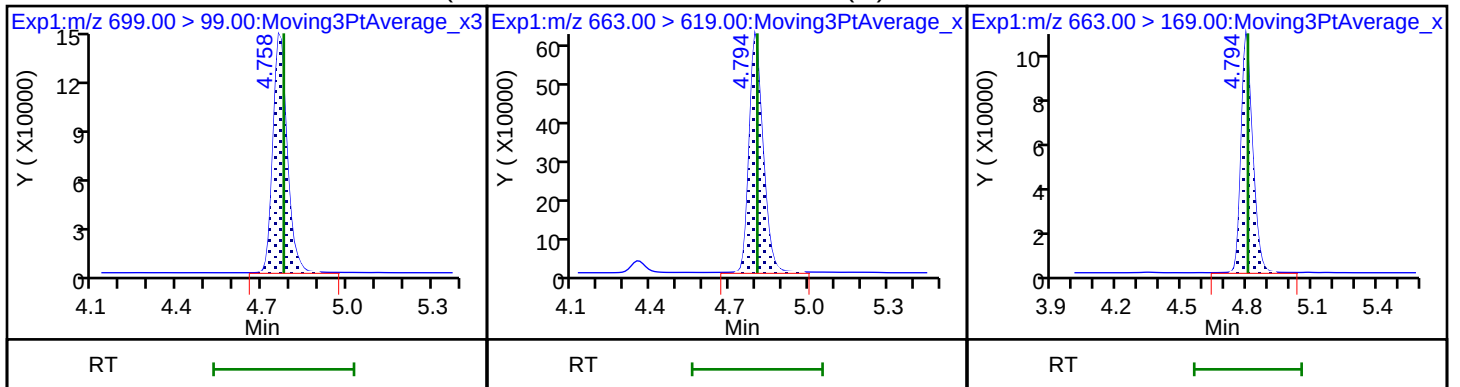
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

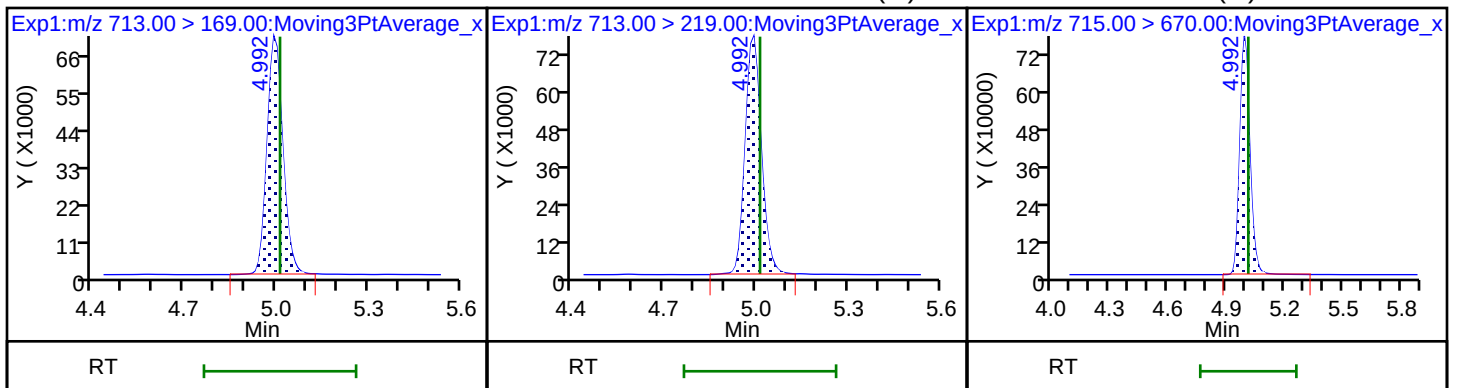
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

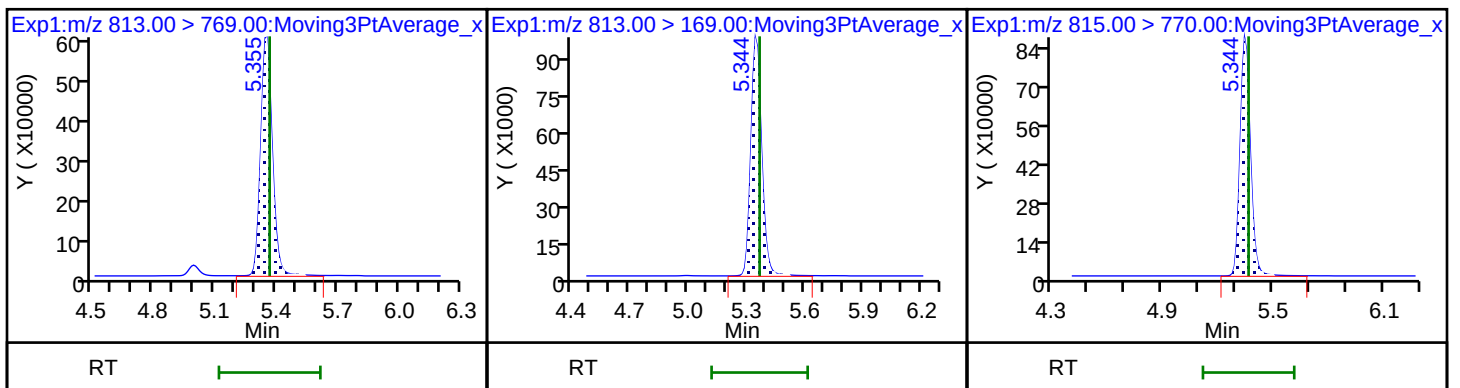
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid

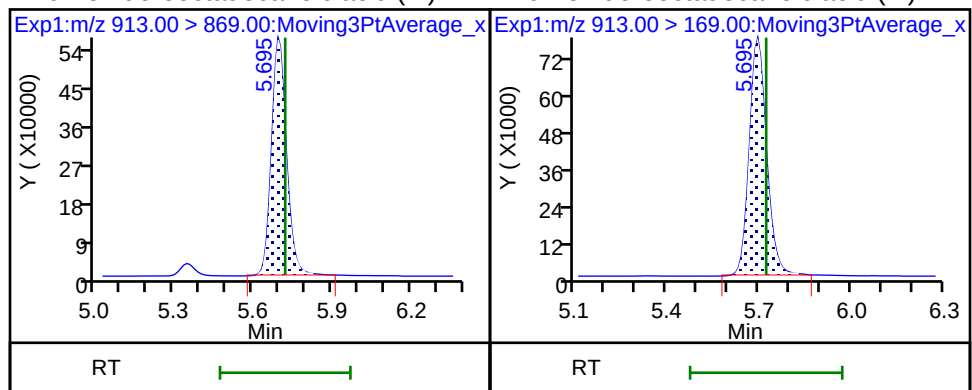
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

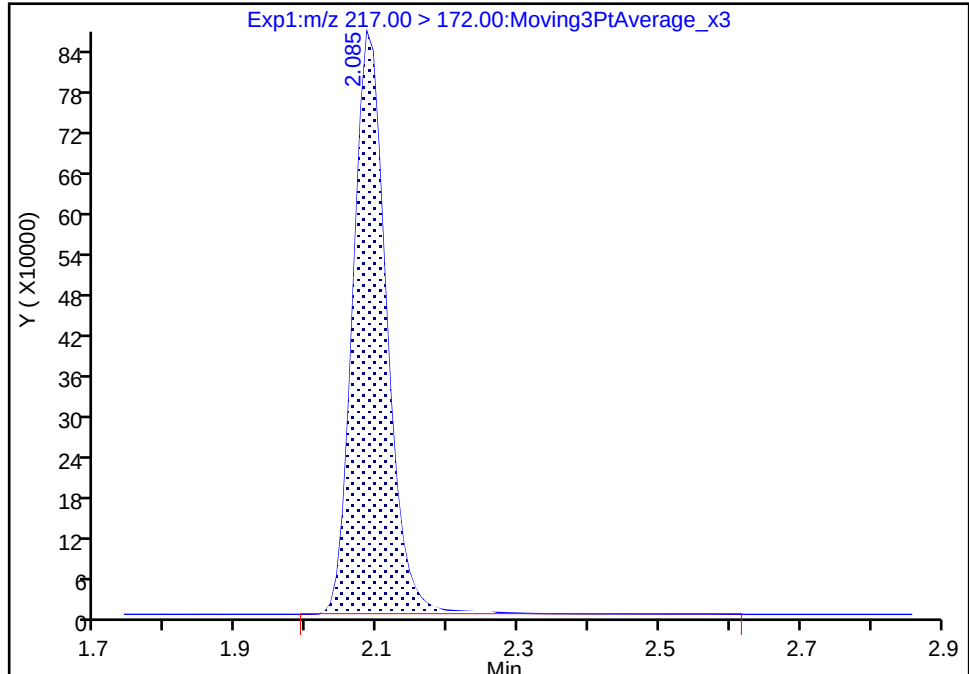
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

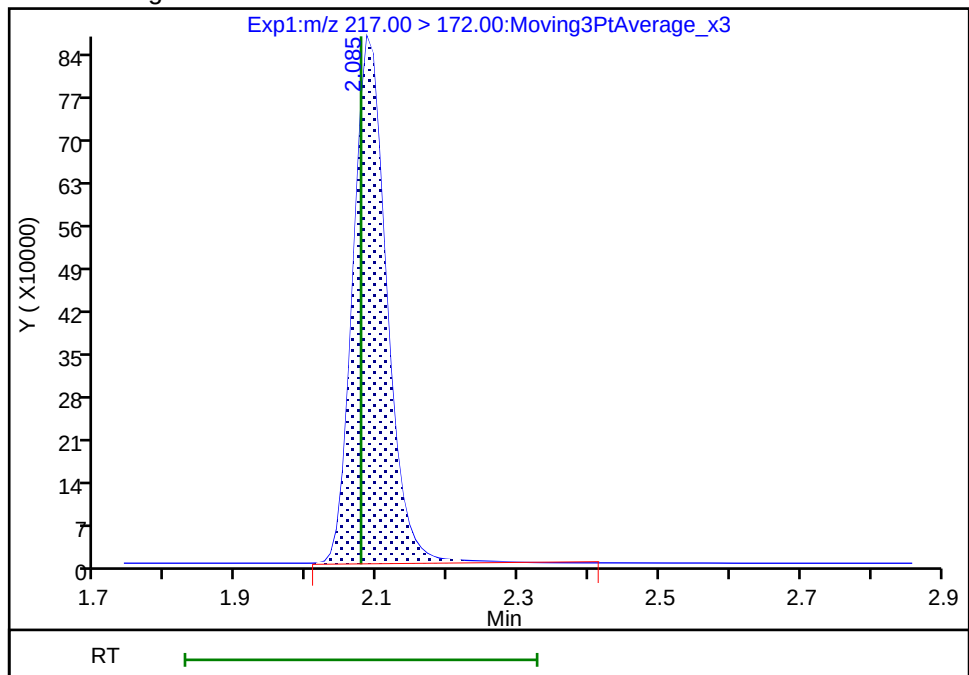
RT: 2.08
Area: 2877328
Amount: 1.119719
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2864659
Amount: 1.114789
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:45:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

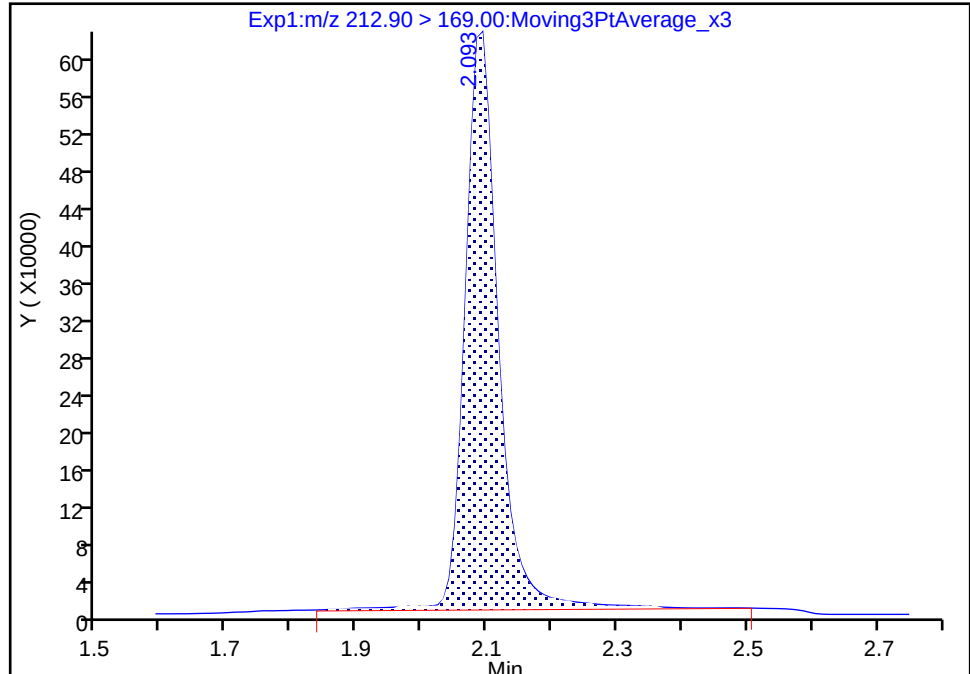
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

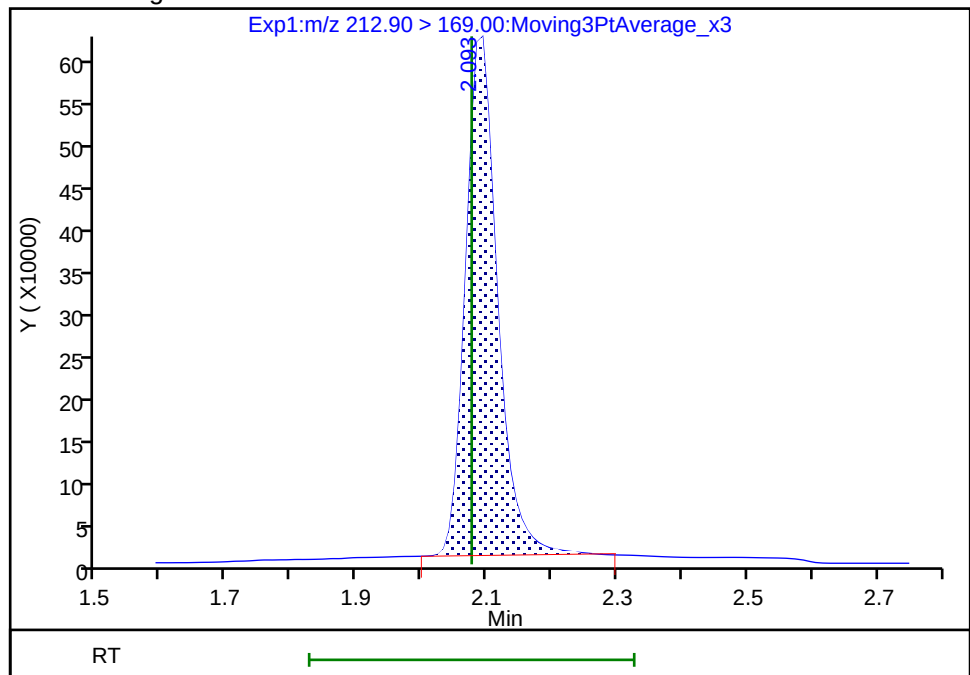
RT: 2.09
Area: 2214142
Amount: 0.936917
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2118667
Amount: 0.896517
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:46:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

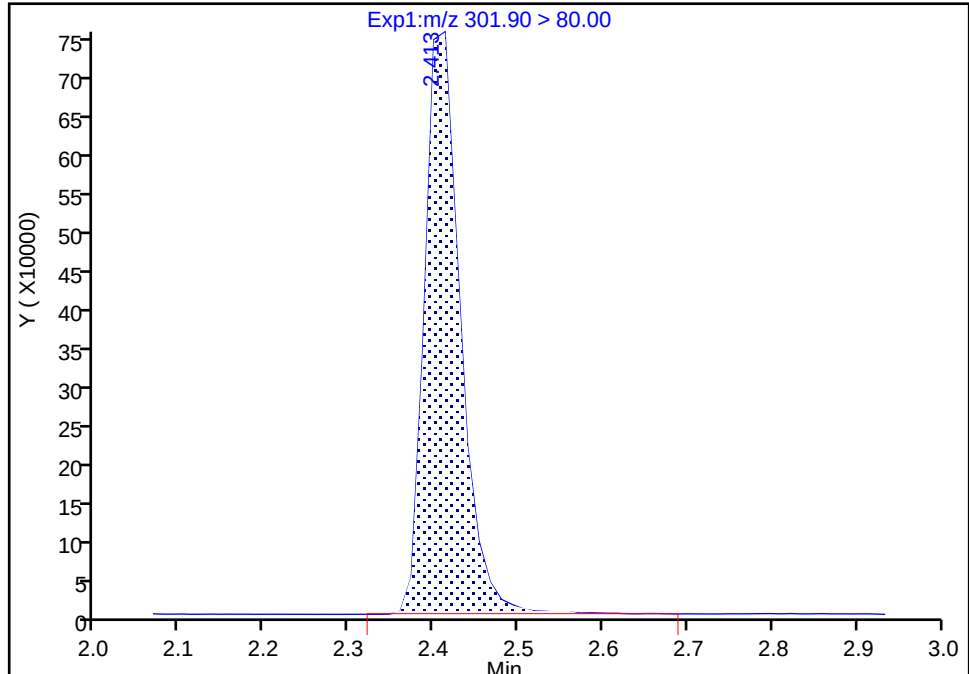
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

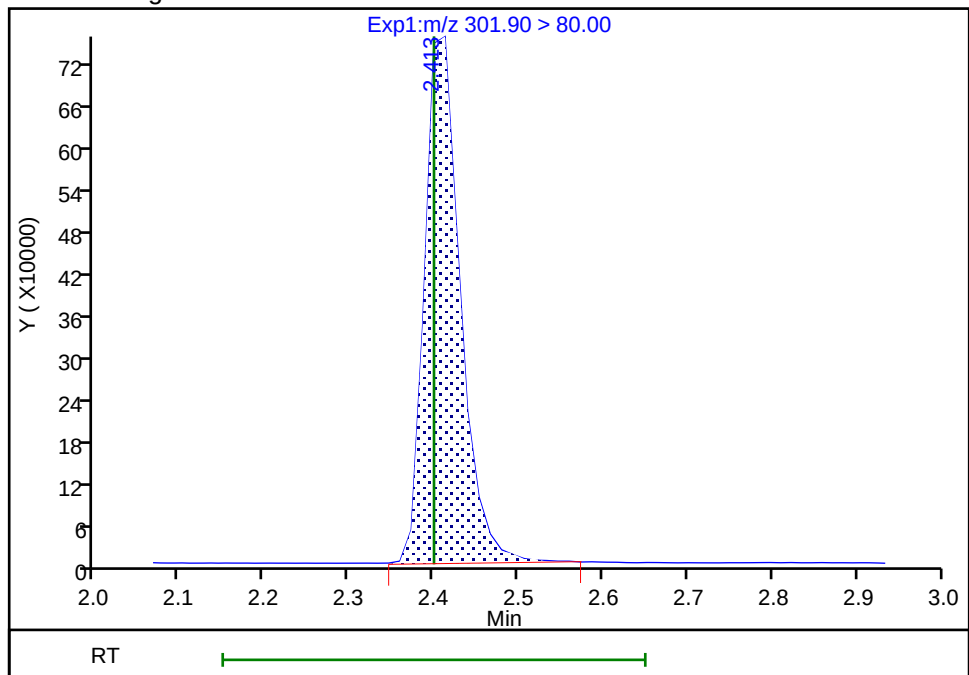
RT: 2.41
Area: 2231193
Amount: 1.049350
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 2215444
Amount: 1.041943
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:45:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

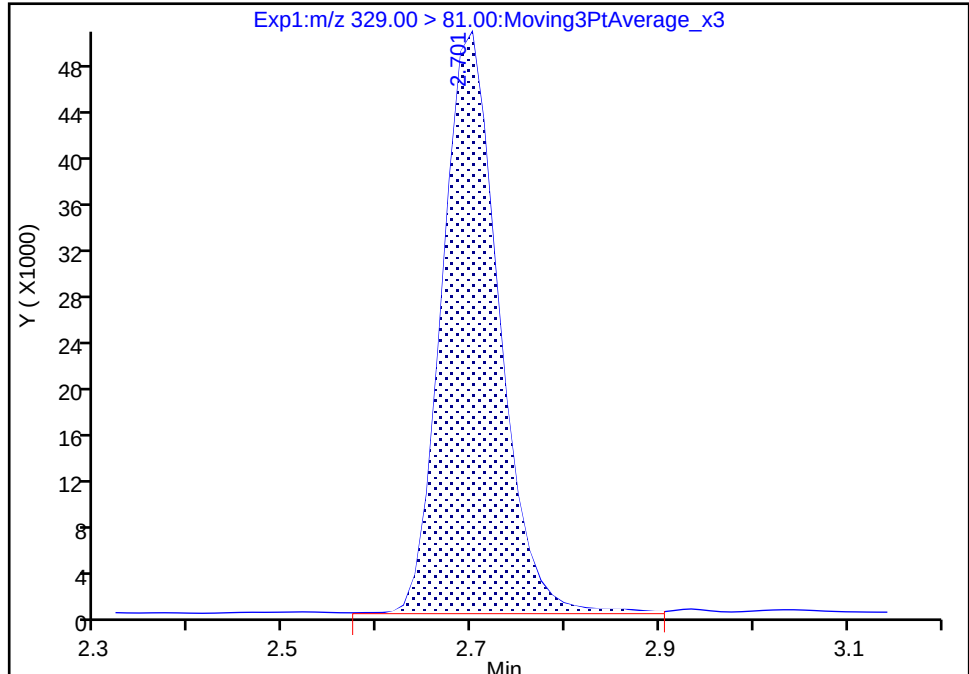
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

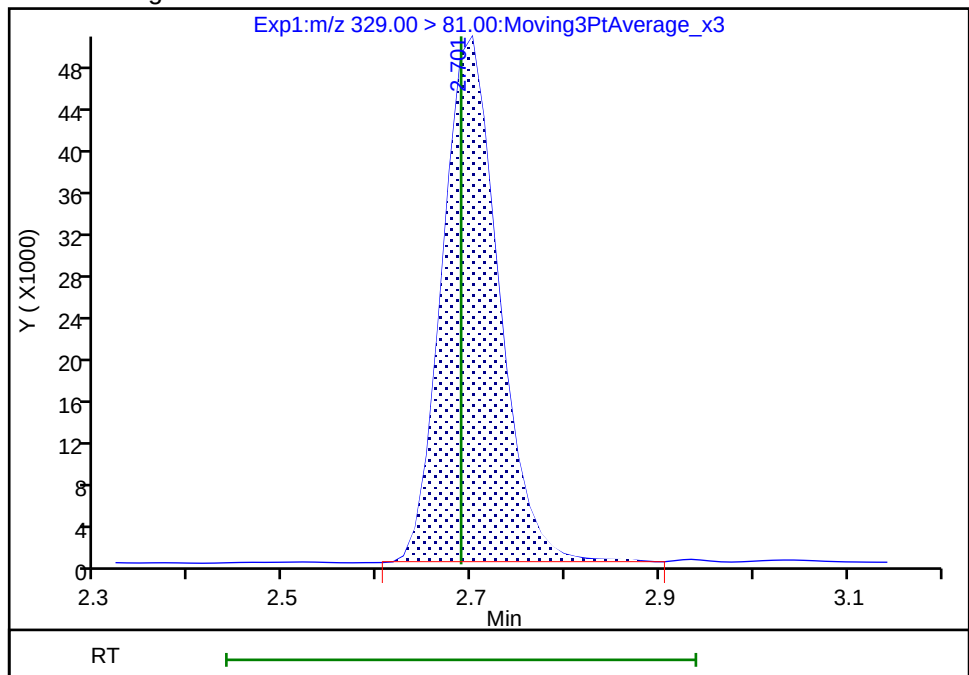
RT: 2.70
Area: 213464
Amount: 1.136166
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 210192
Amount: 1.118750
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:46:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

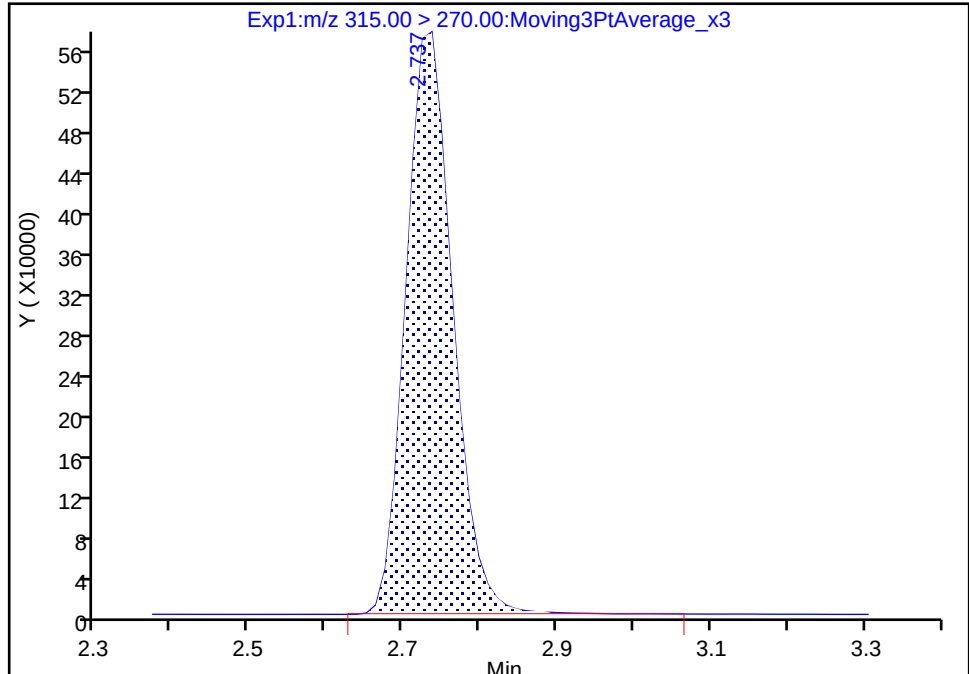
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

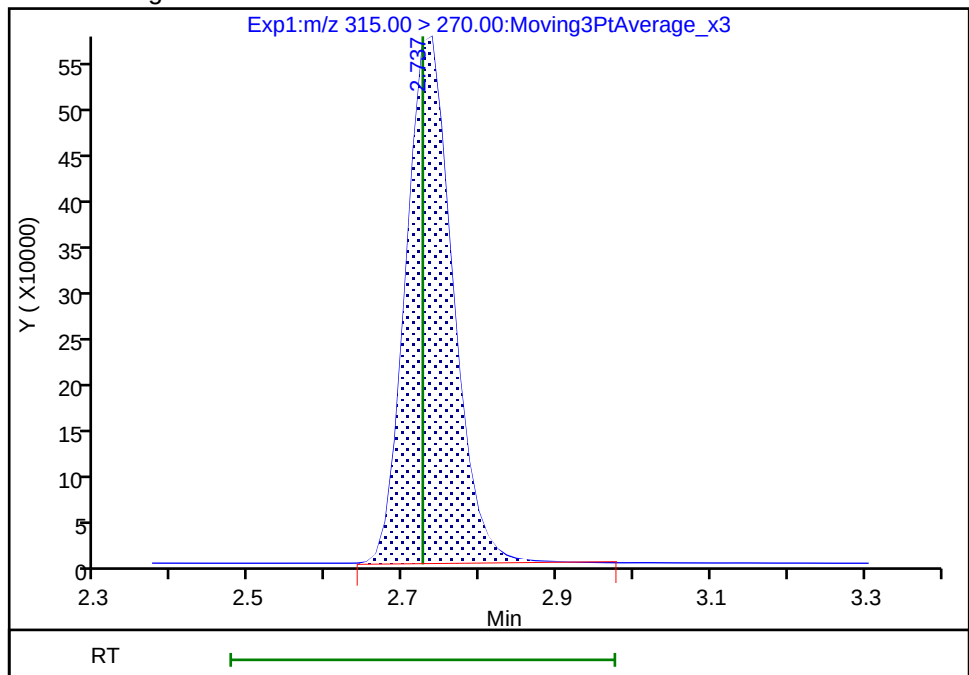
RT: 2.74
Area: 2418576
Amount: 1.179474
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 2413896
Amount: 1.177192
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:46:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

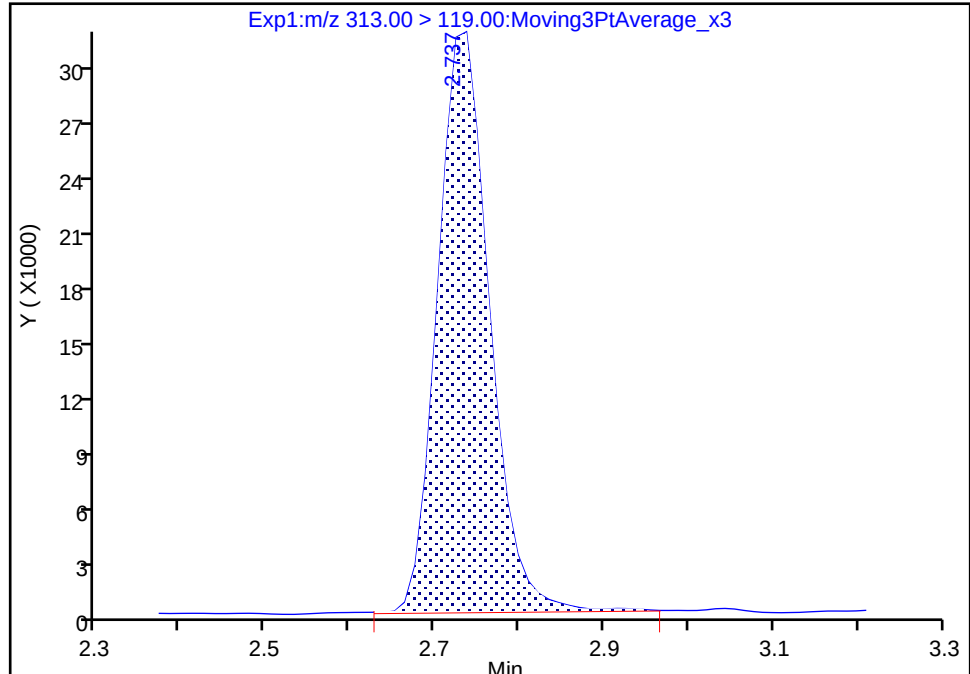
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

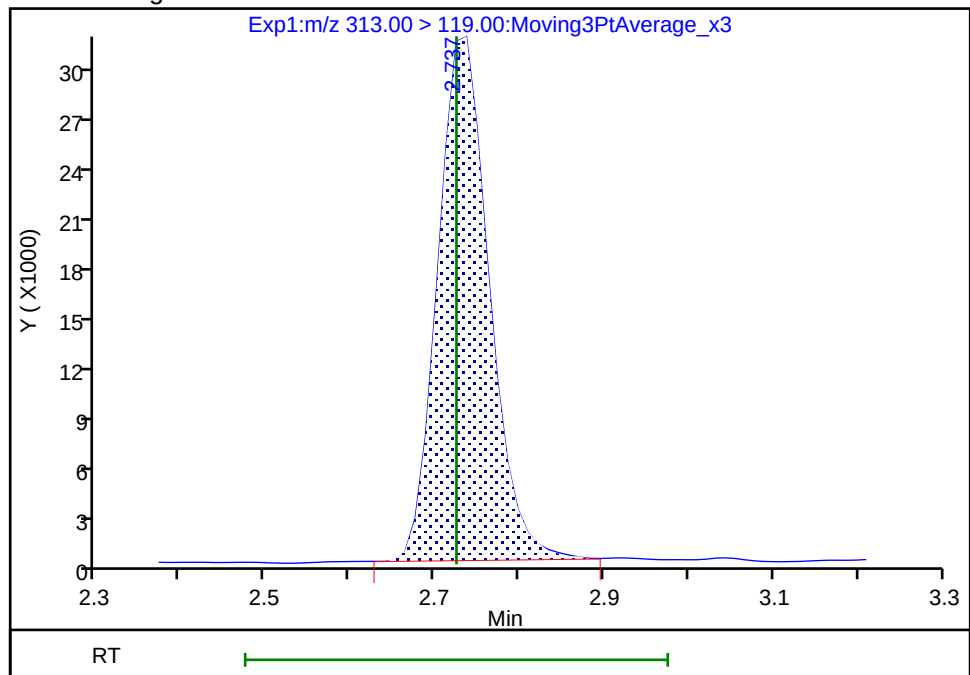
RT: 2.74
Area: 133939
Amount: 0.913844
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 133604
Amount: 0.903096
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

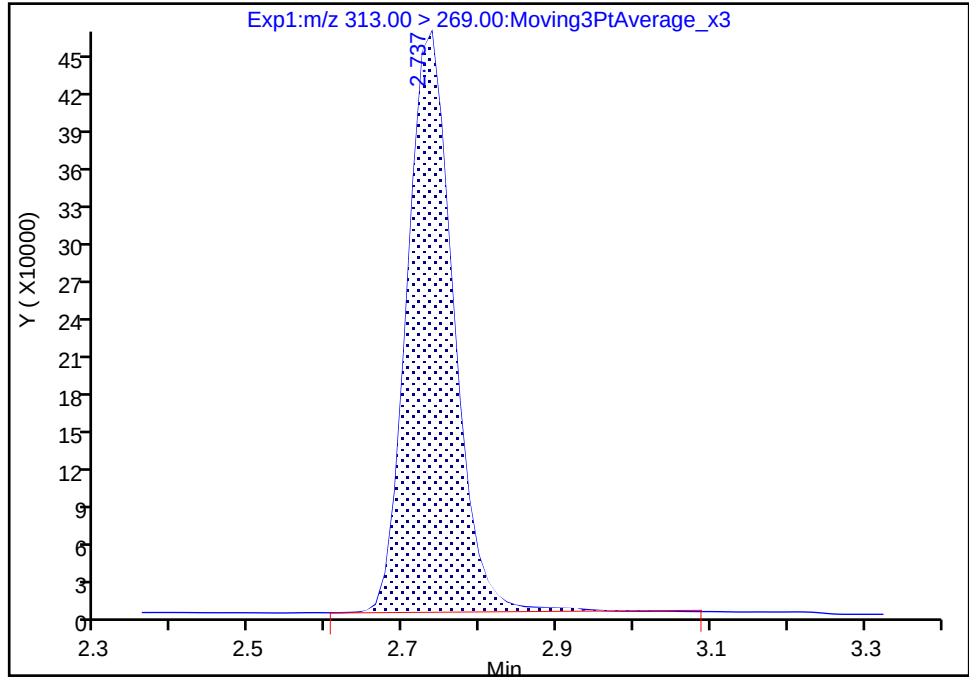
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

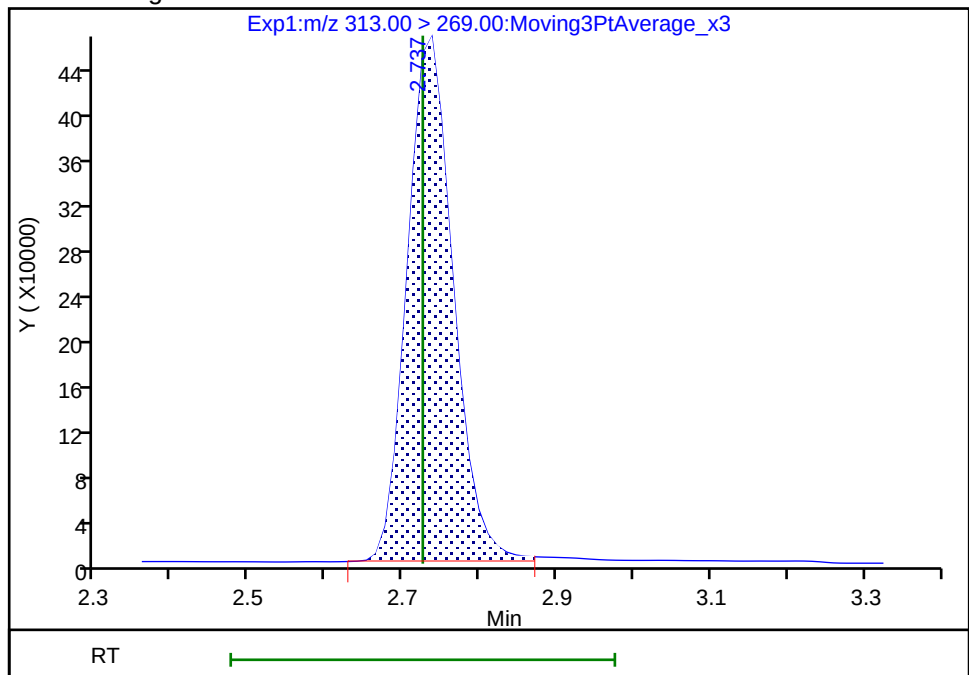
RT: 2.74
Area: 1922878
Amount: 0.913844
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1900262
Amount: 0.903096
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

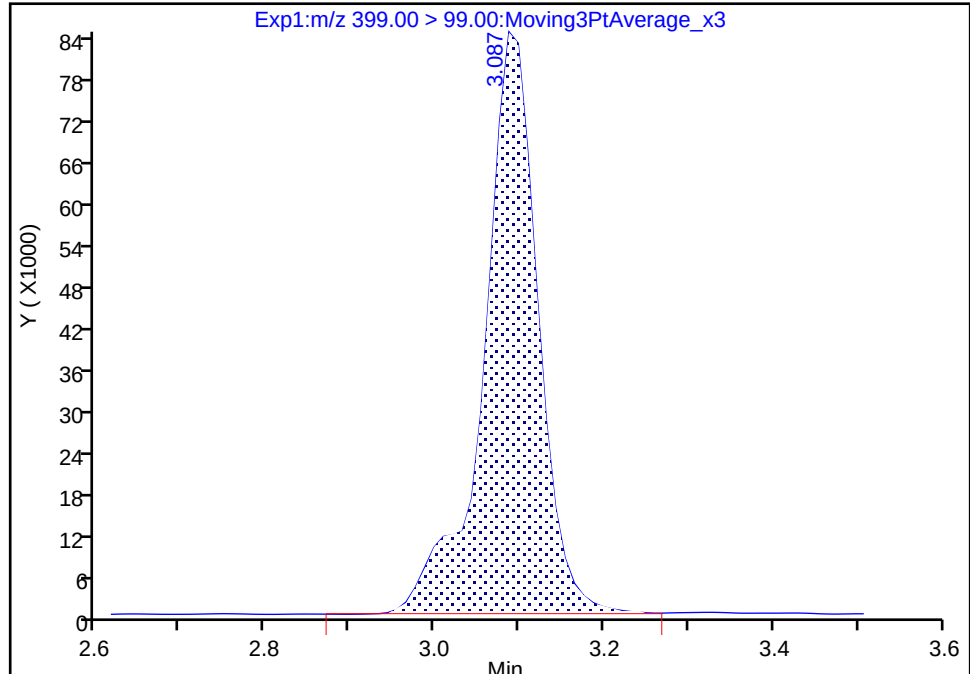
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

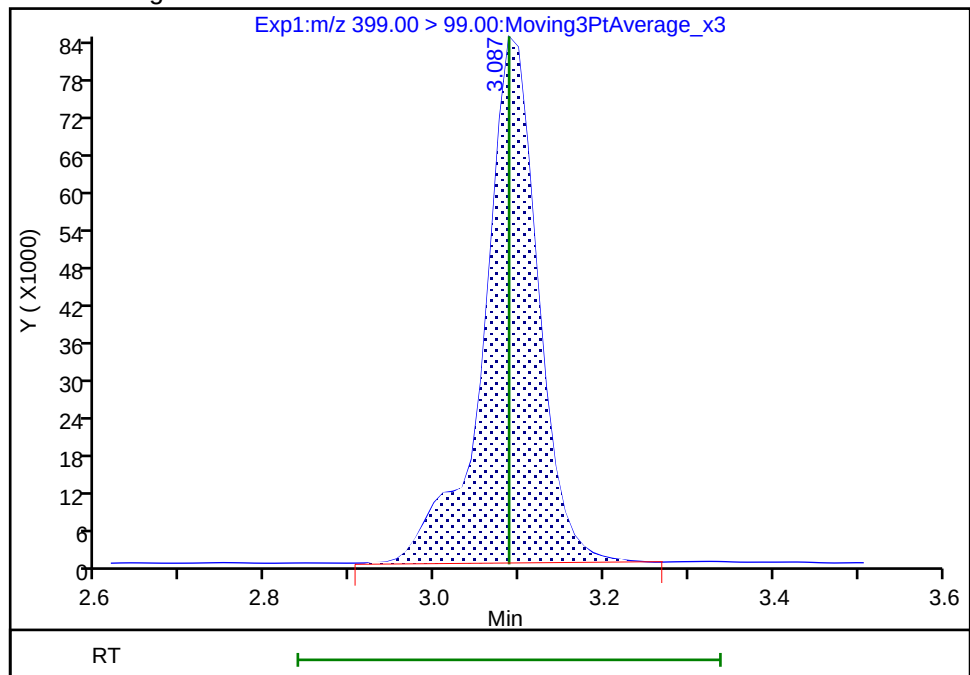
RT: 3.09
Area: 378180
Amount: 0.819862
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 378103
Amount: 0.816371
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

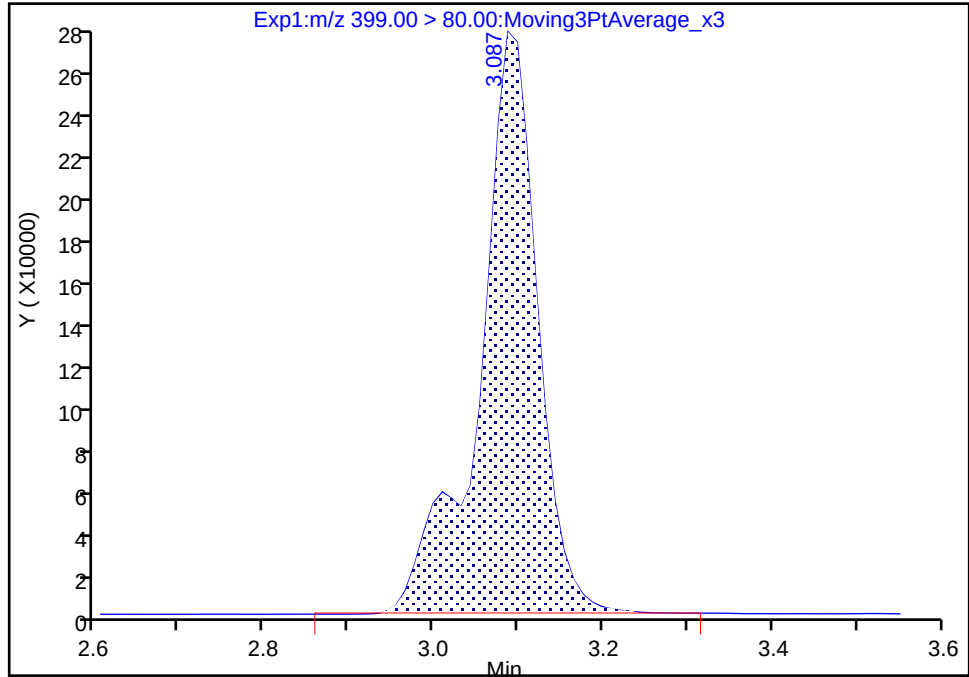
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

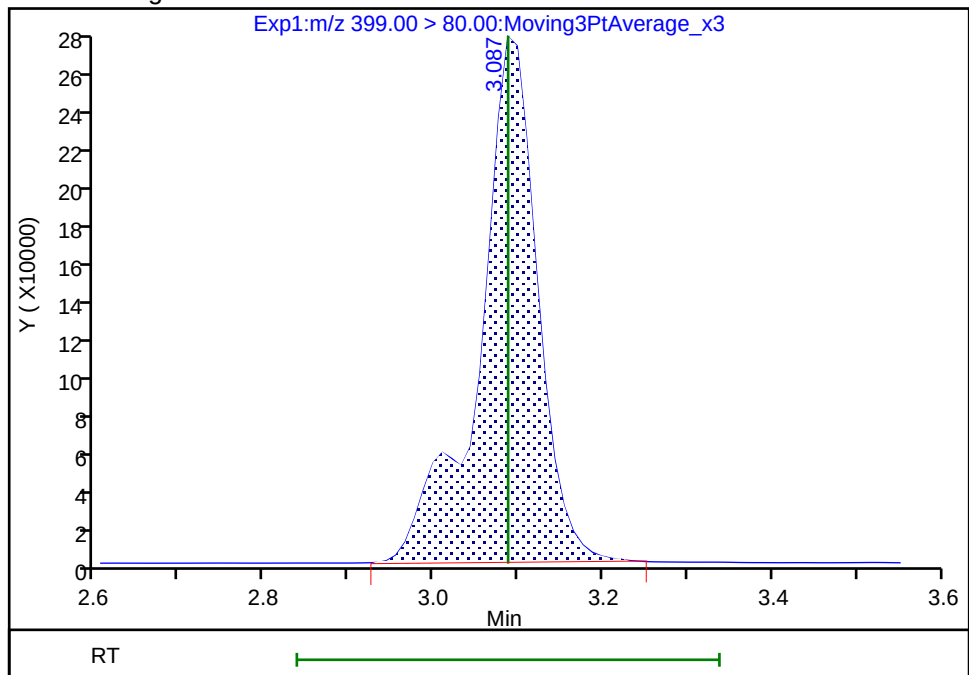
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Area: 1314253
Amount: 0.819862
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1308657
Amount: 0.816371
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

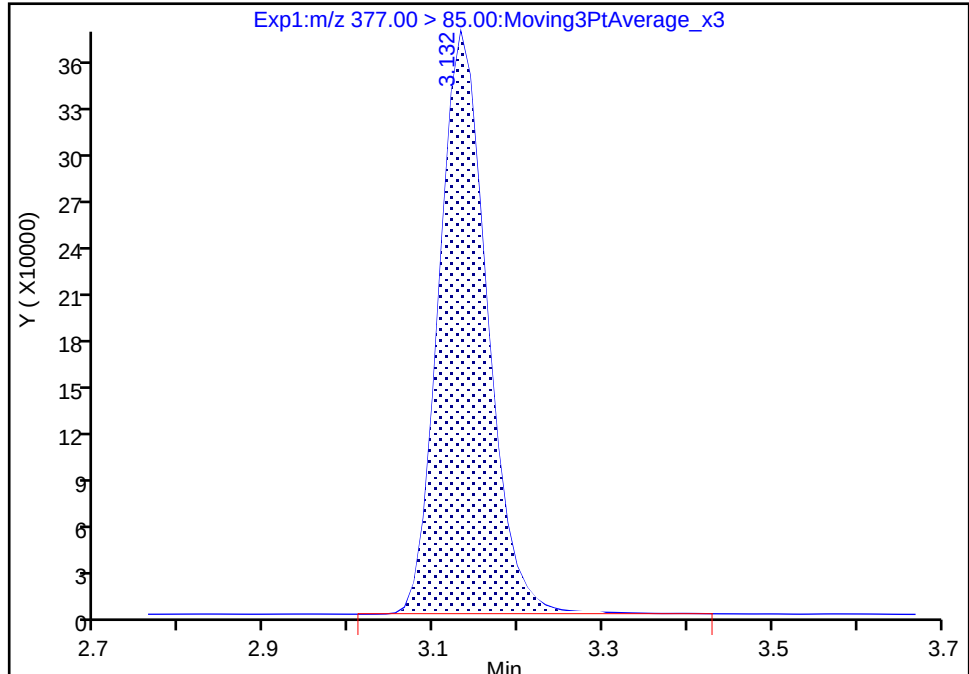
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Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

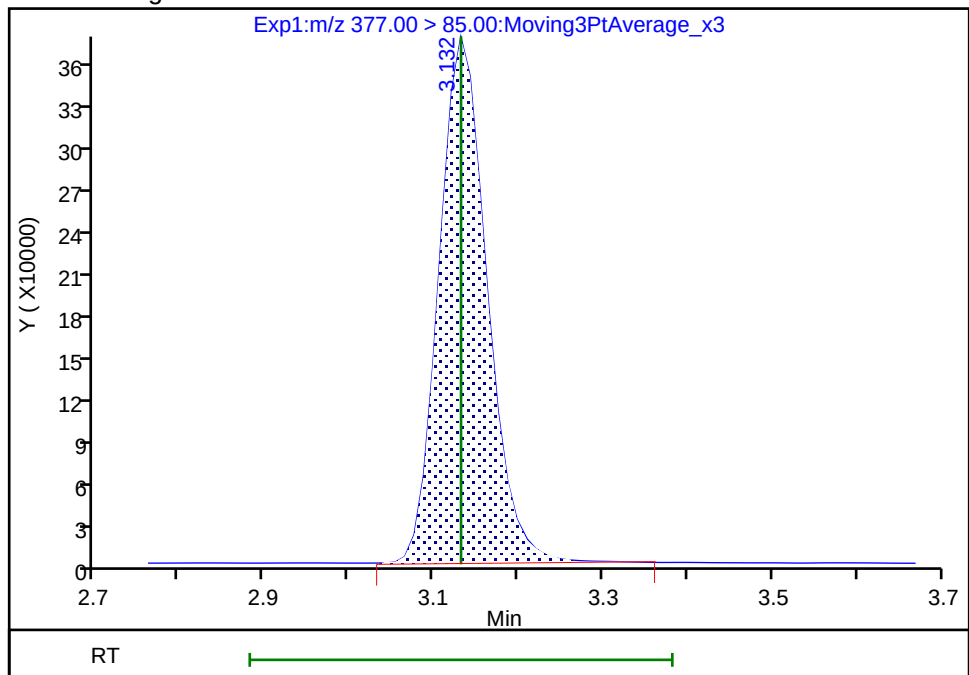
RT: 3.13
Area: 1479611
Amount: 0.937598
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
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Amount: 0.937598
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

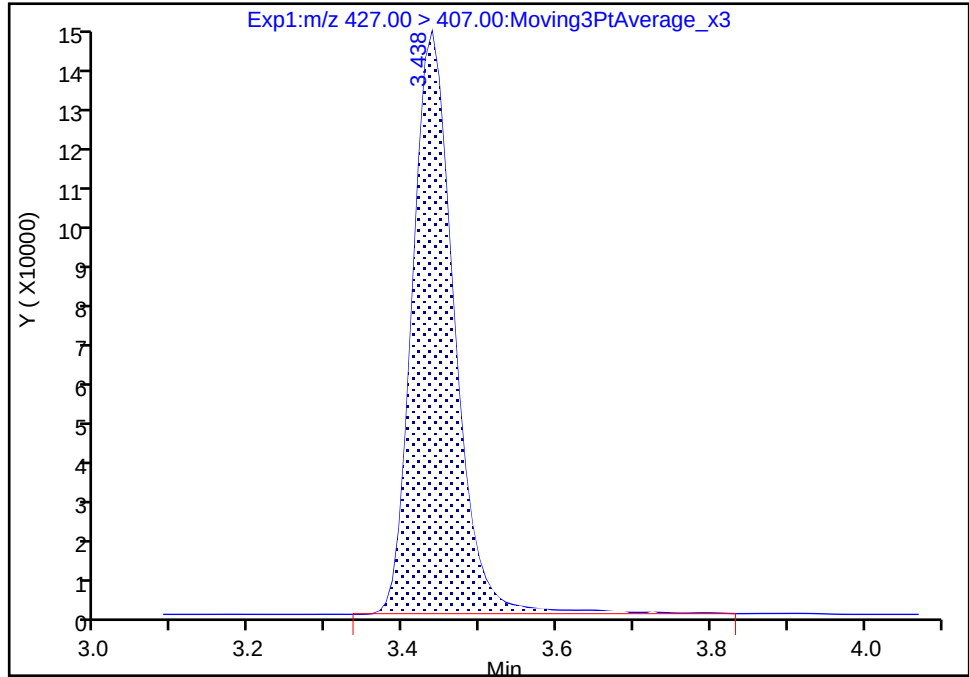
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Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

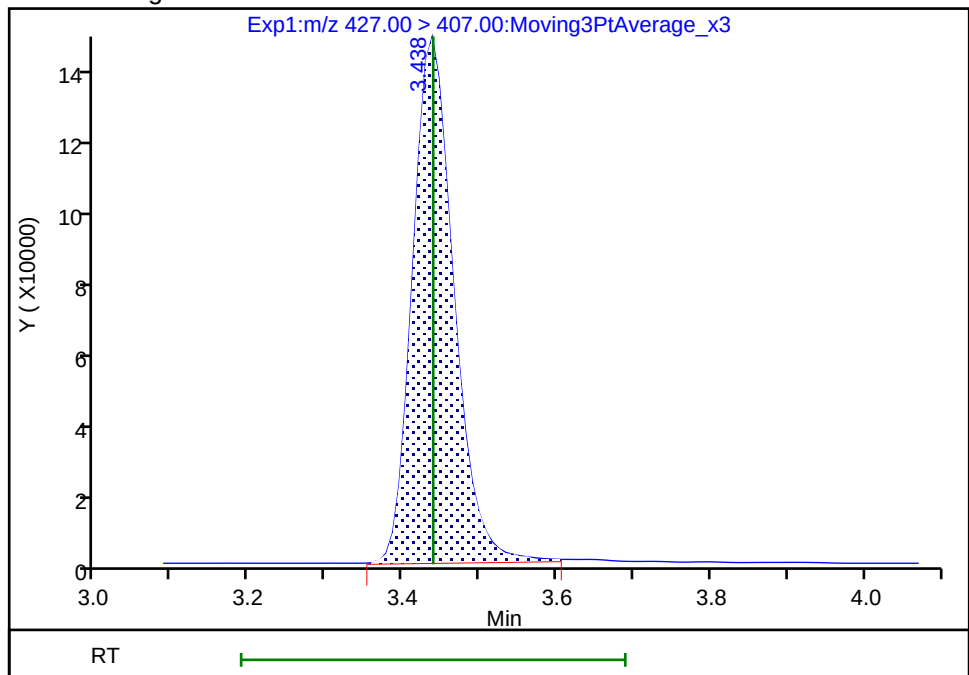
RT: 3.44
Area: 561698
Amount: 0.966655
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 553309
Amount: 0.952041
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

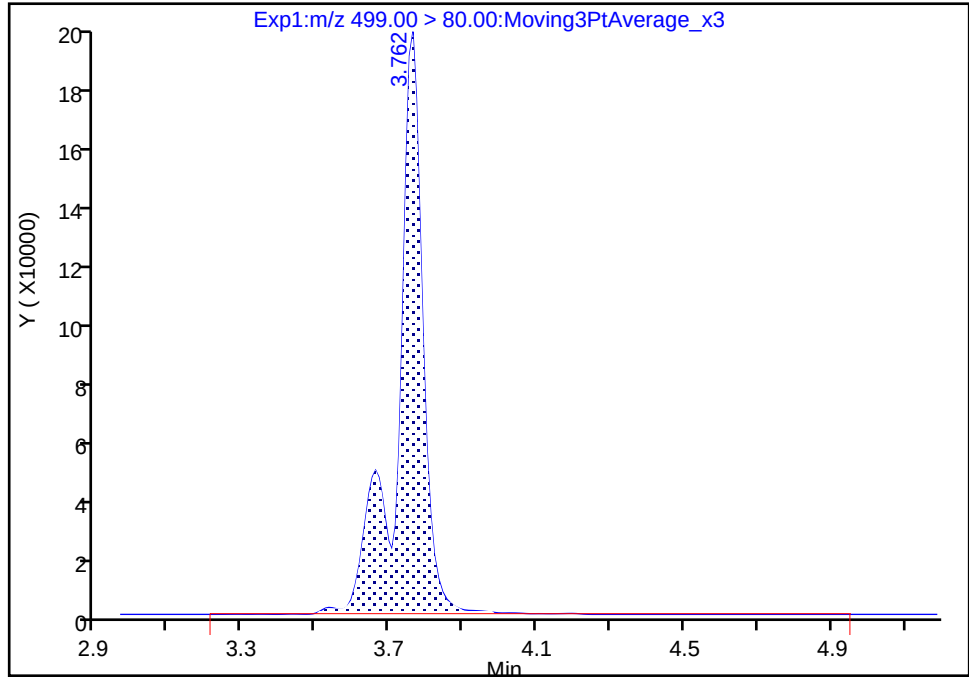
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

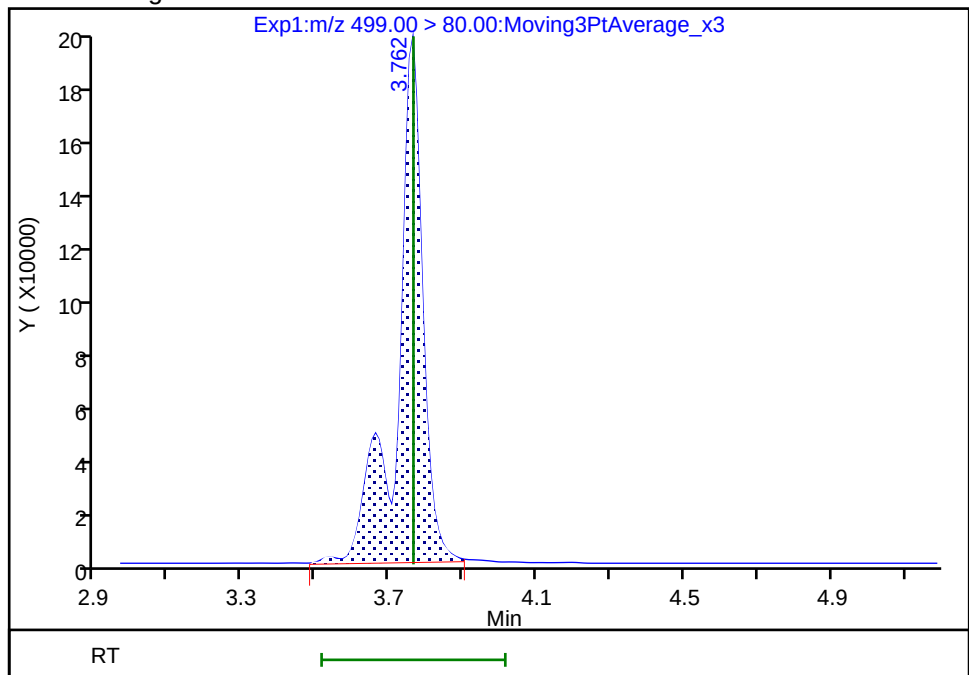
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Amount: 0.830599
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
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Amount: 0.816125
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

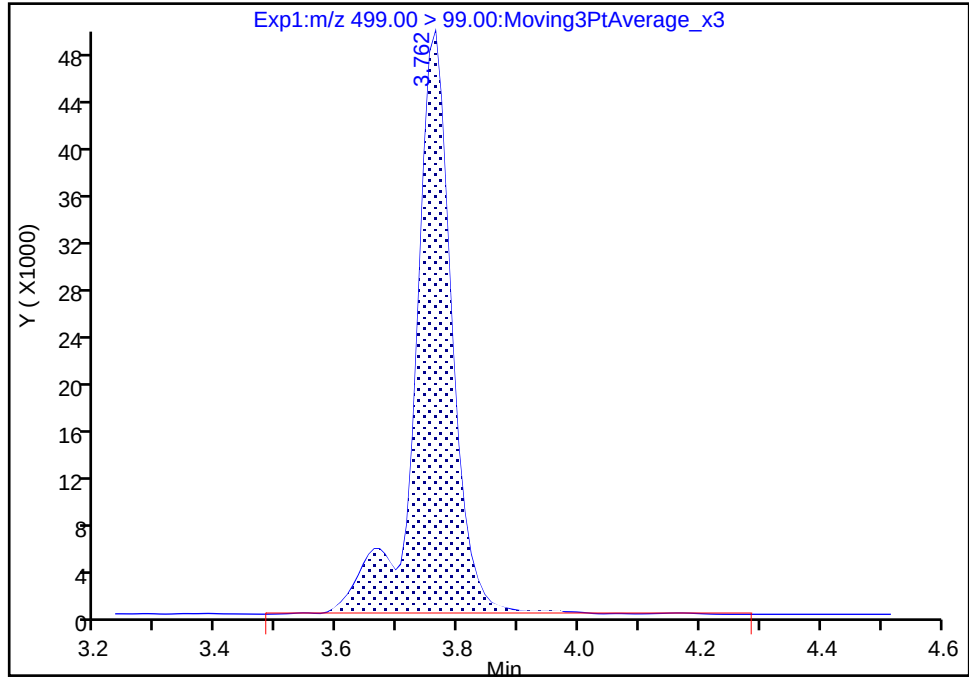
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

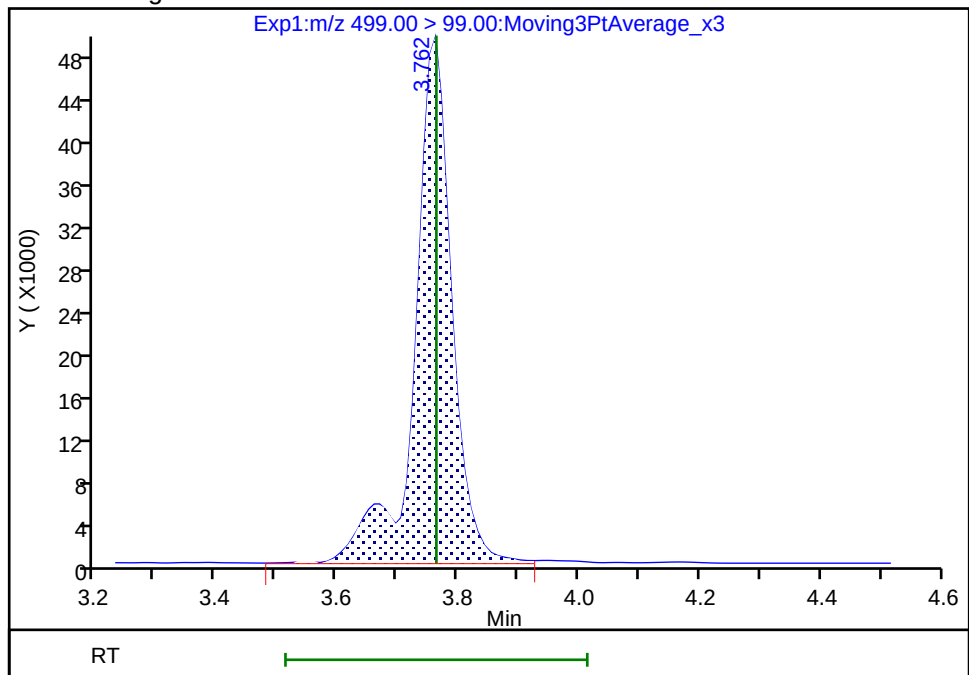
RT: 3.76
Area: 213123
Amount: 0.830599
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 210487
Amount: 0.816125
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:47:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

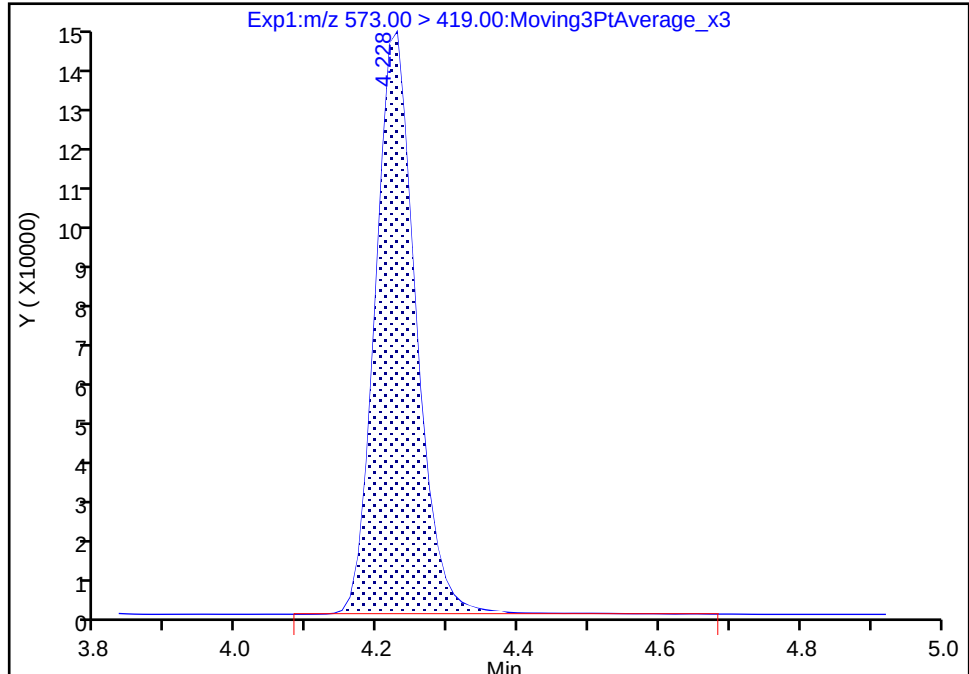
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

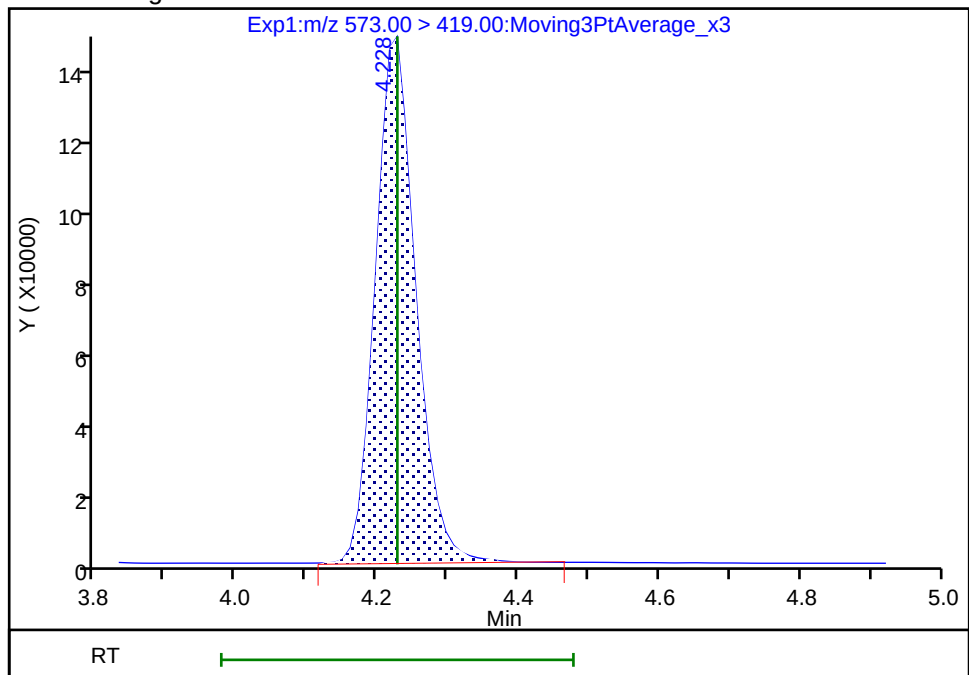
RT: 4.23
Area: 564276
Amount: 1.180289
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 560571
Amount: 1.172539
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:46:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

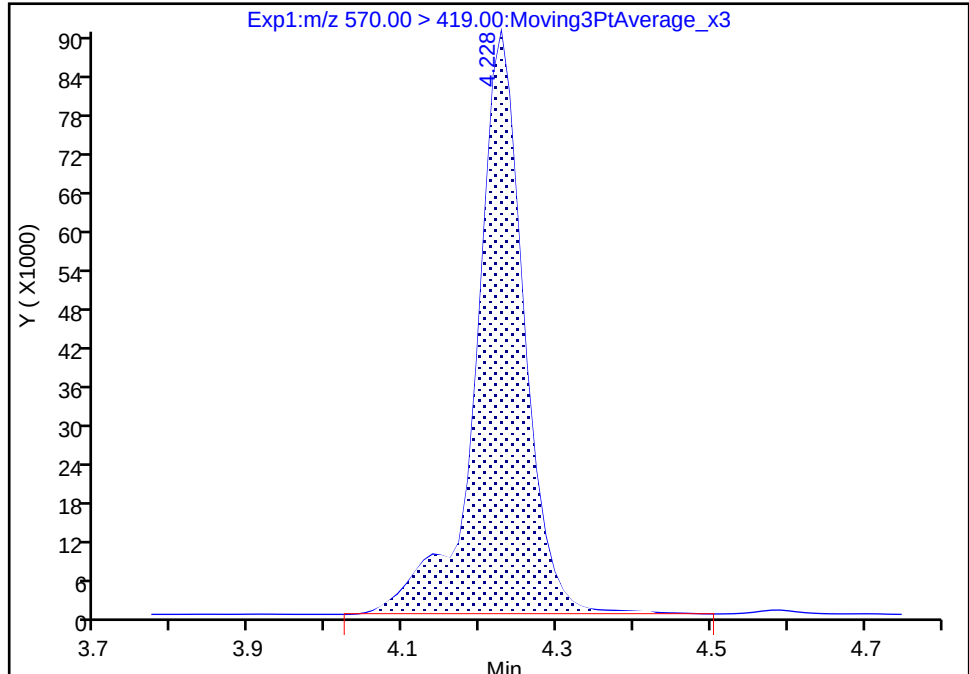
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

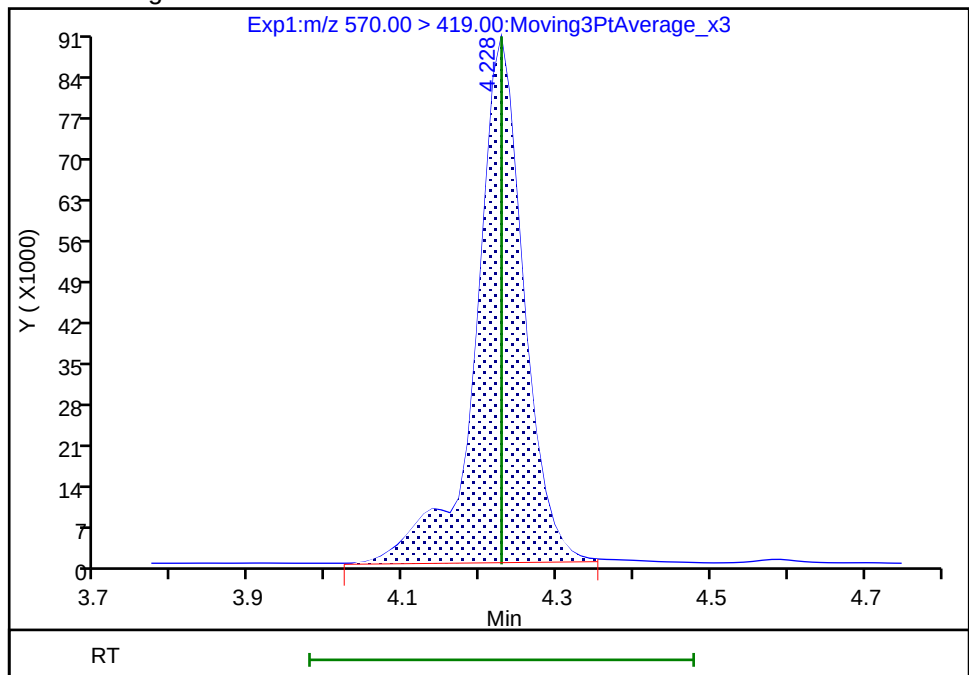
RT: 4.23
Area: 398514
Amount: 1.021375
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 394756
Amount: 1.011634
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:48:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

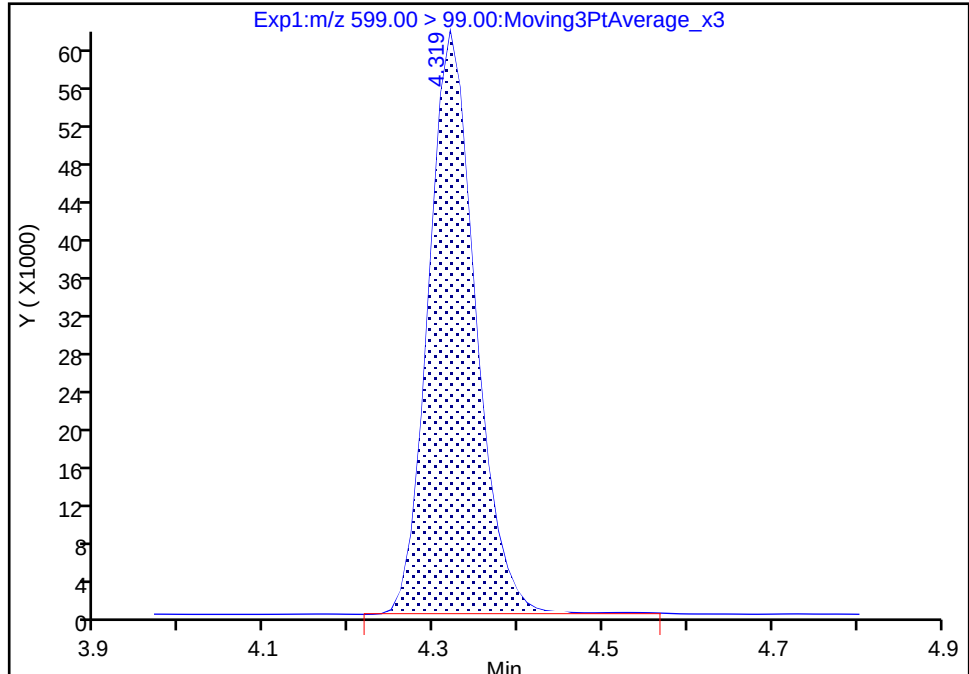
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

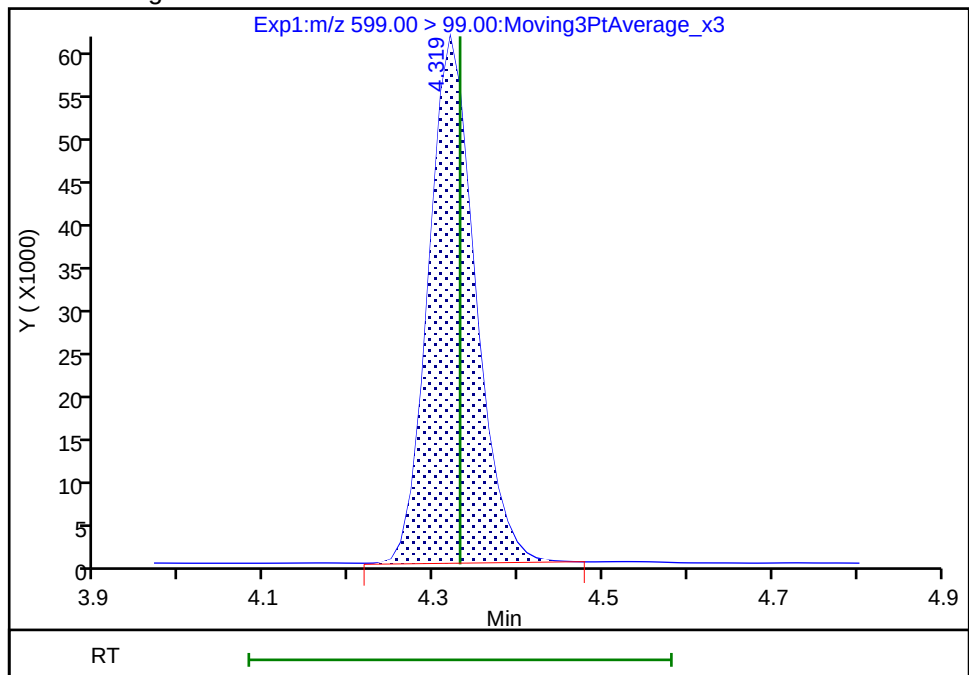
RT: 4.32
Area: 237077
Amount: 0.925320
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 236315
Amount: 0.921191
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:48:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

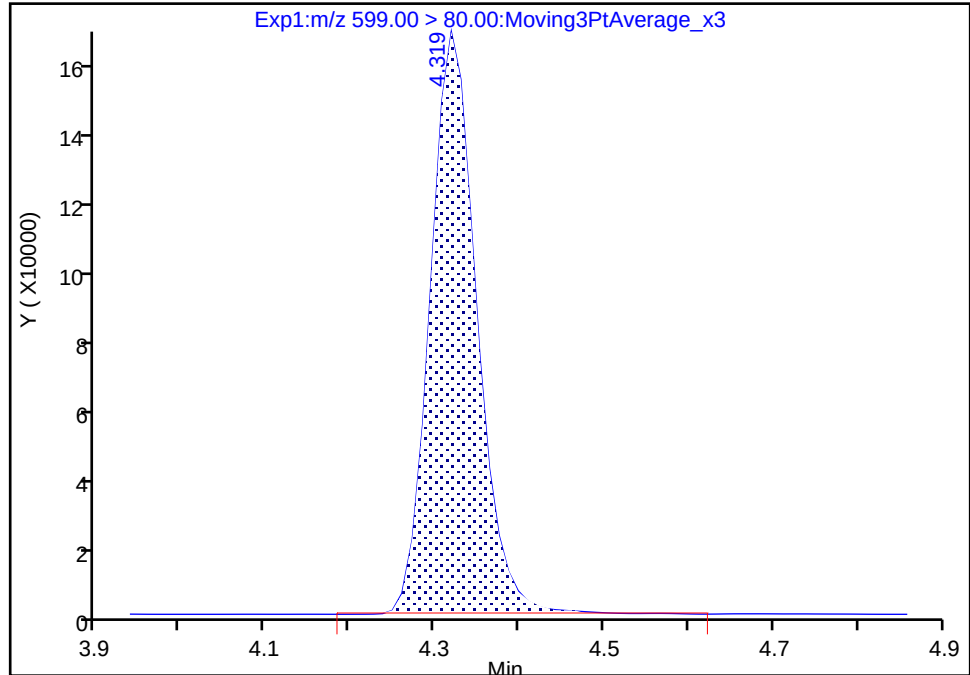
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

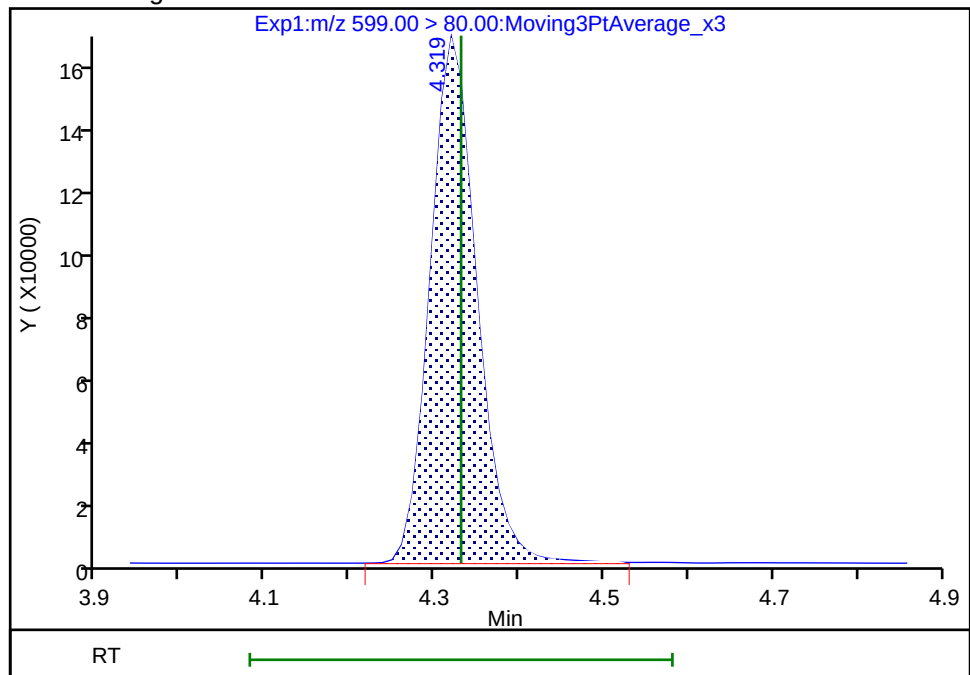
RT: 4.32
Area: 621753
Amount: 0.925320
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 618979
Amount: 0.921191
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:48:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

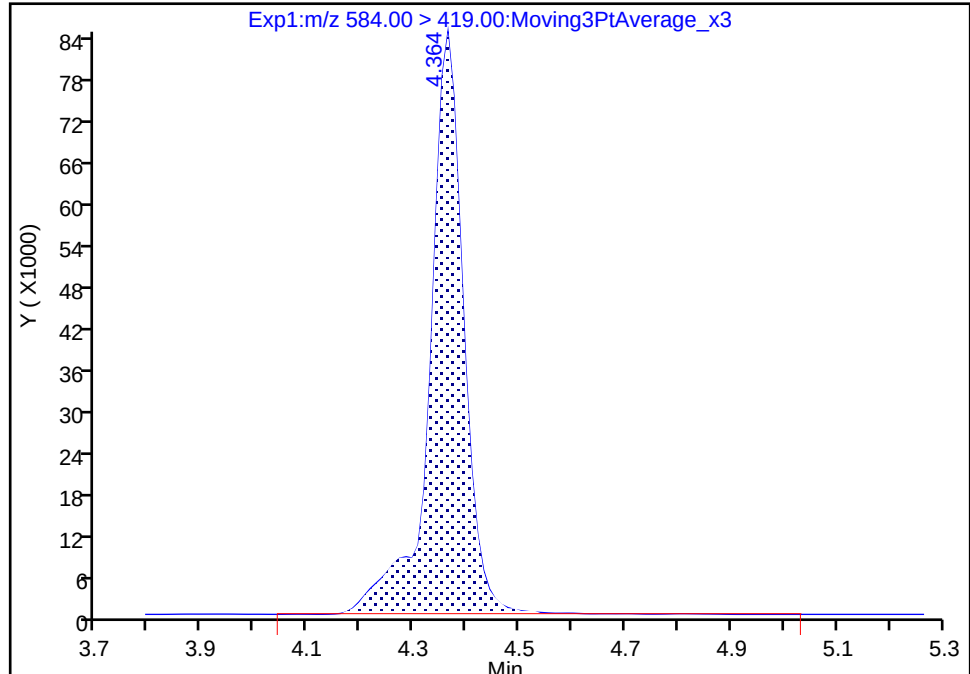
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

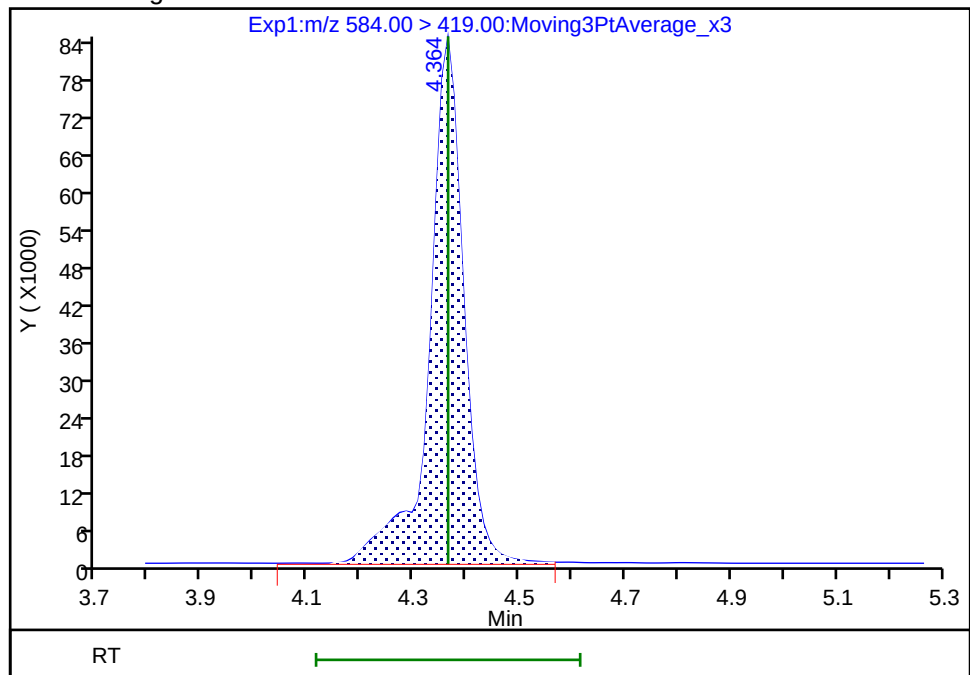
RT: 4.36
Area: 381520
Amount: 0.903765
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 379302
Amount: 0.898511
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:48:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

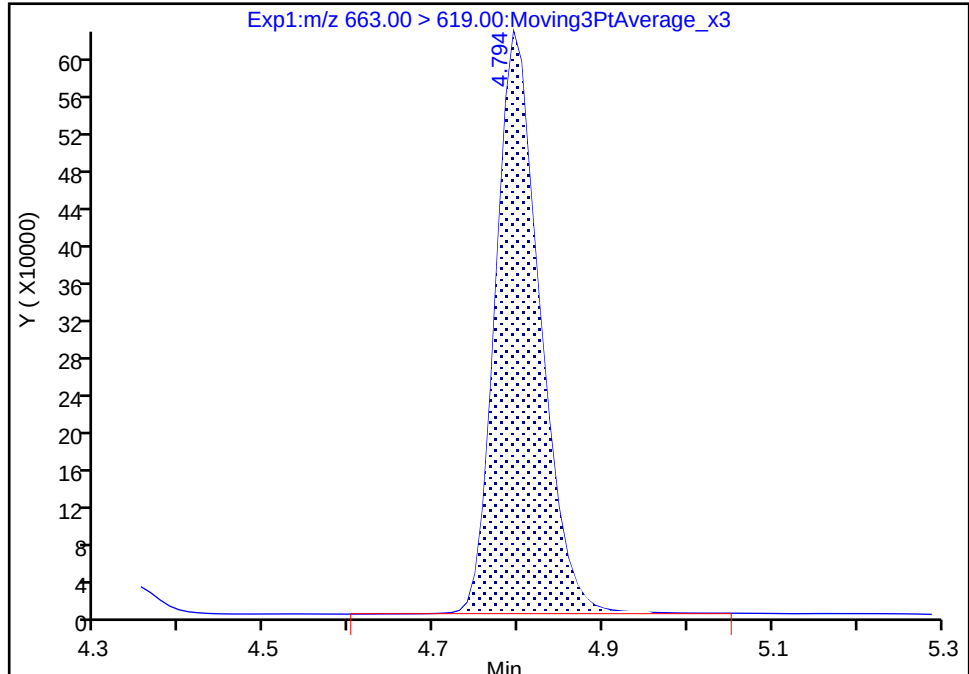
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Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

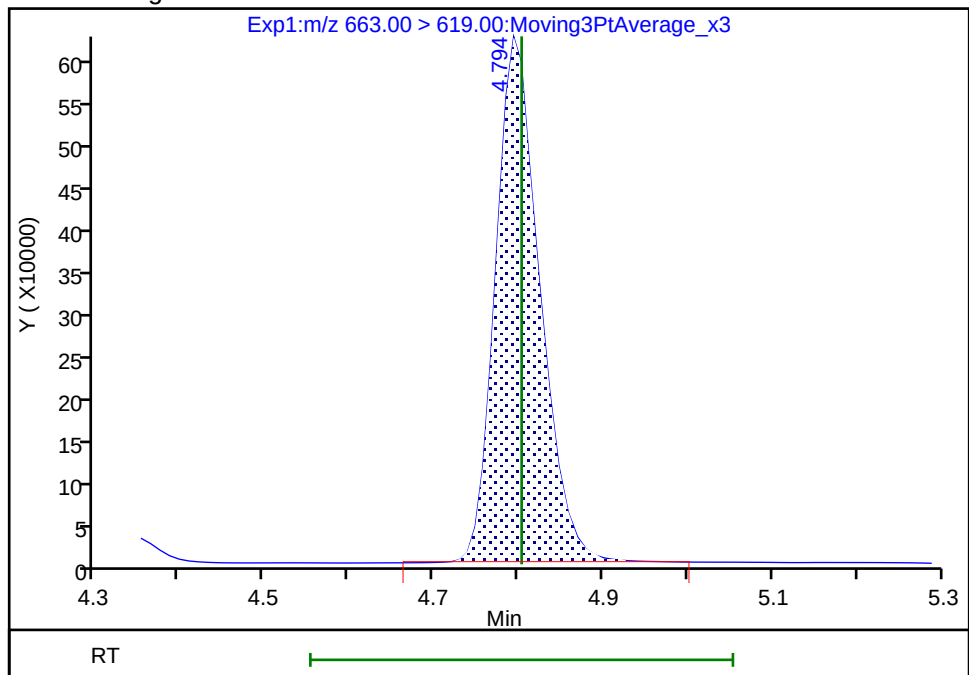
RT: 4.79
Area: 2274056
Amount: 0.958444
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 2270065
Amount: 0.956762
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:48:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

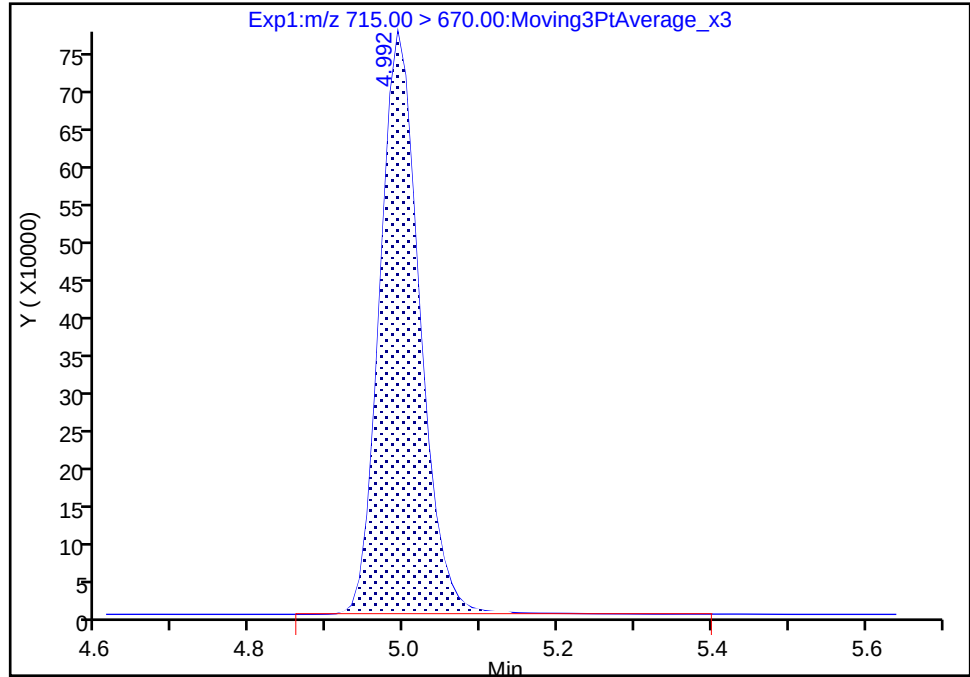
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

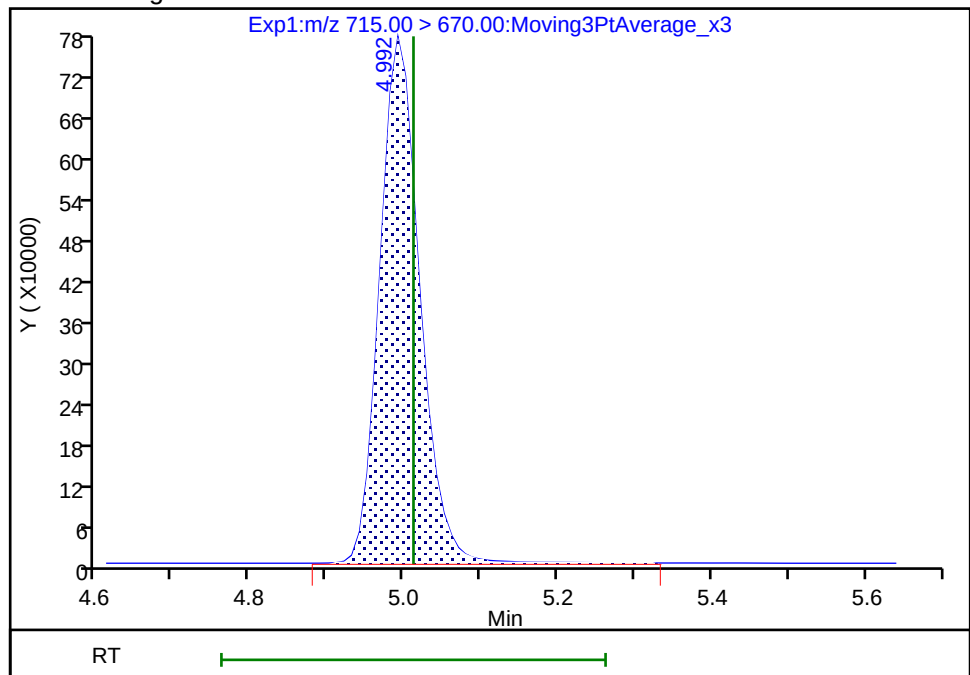
RT: 4.99
Area: 2802874
Amount: 1.479355
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 2801436
Amount: 1.478596
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:46:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

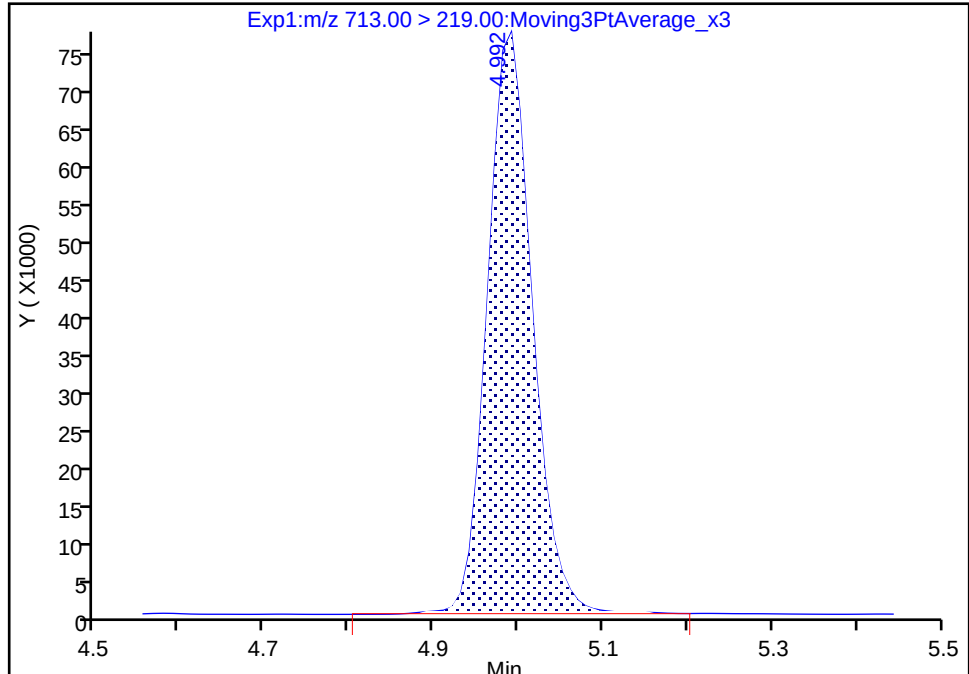
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

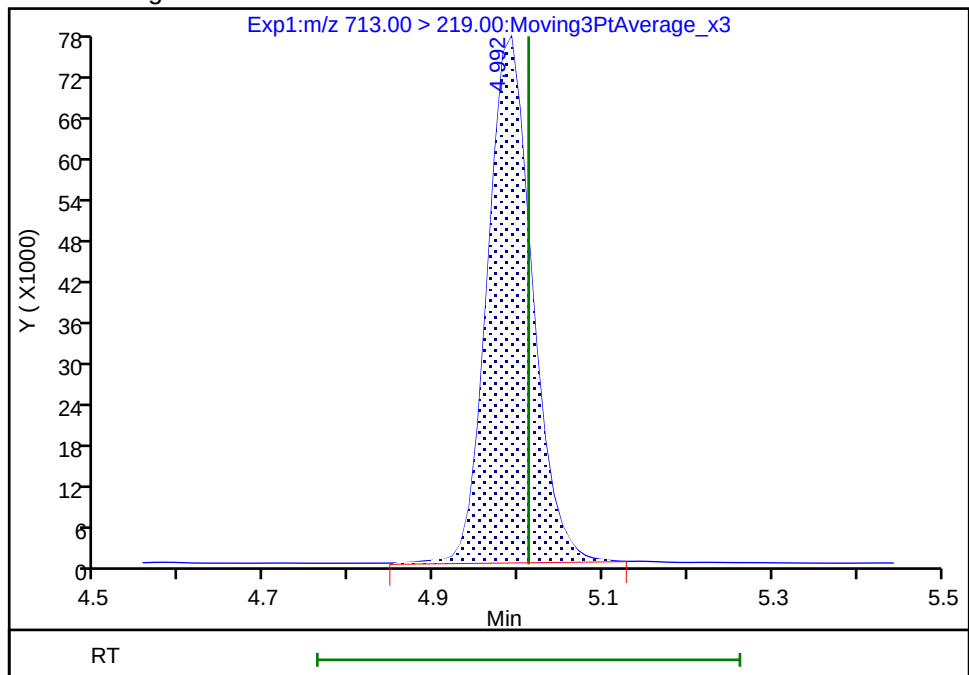
RT: 4.99
Area: 283755
Amount: 0.836793
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 281689
Amount: 0.836793
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:48:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

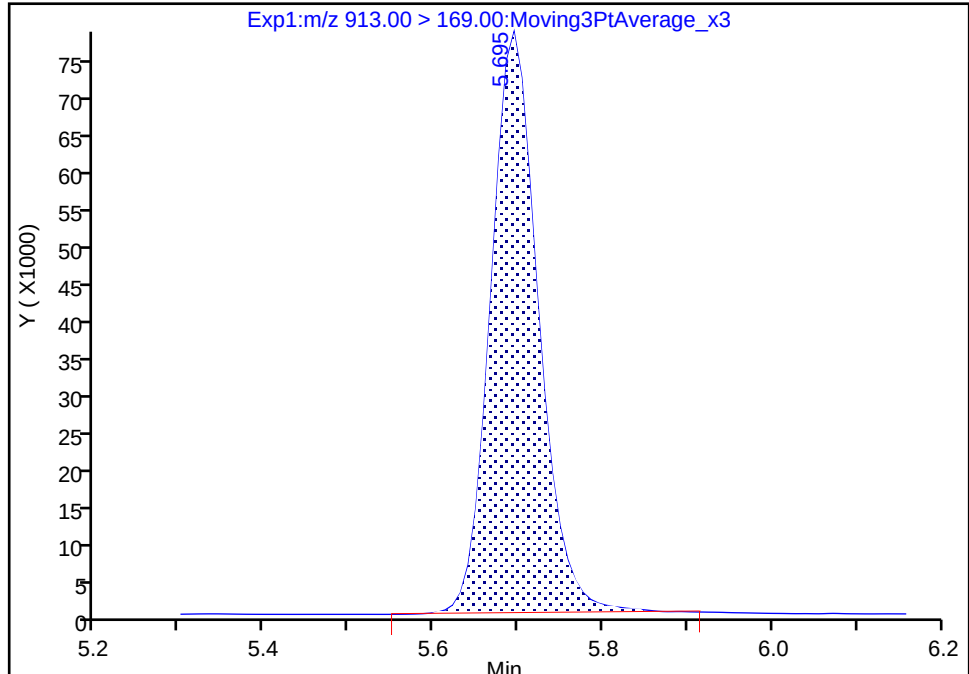
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

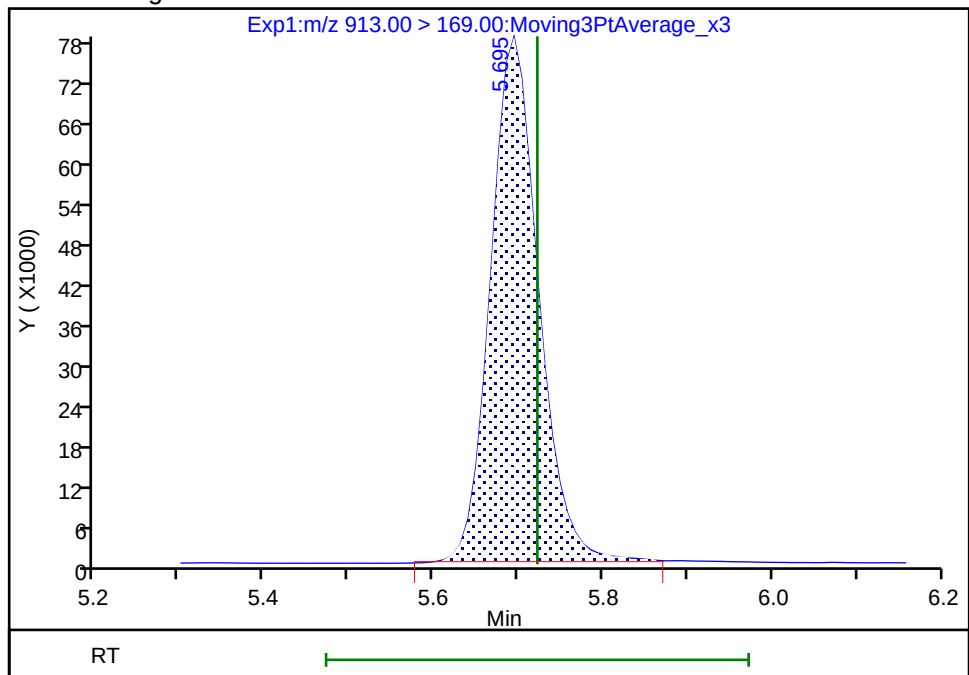
RT: 5.69
Area: 308573
Amount: 1.006202
Amount Units: ng/ml

Processing Integration Results



RT: 5.69
Area: 307302
Amount: 0.996063
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:49:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

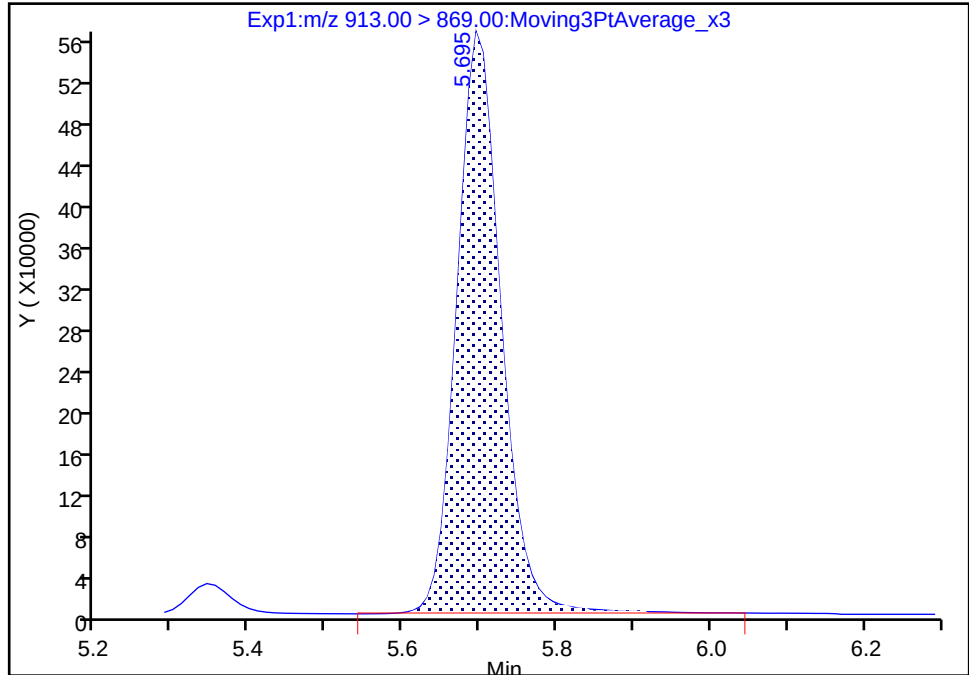
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A32.d
Injection Date: 05-Jan-2023 19:02:53 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

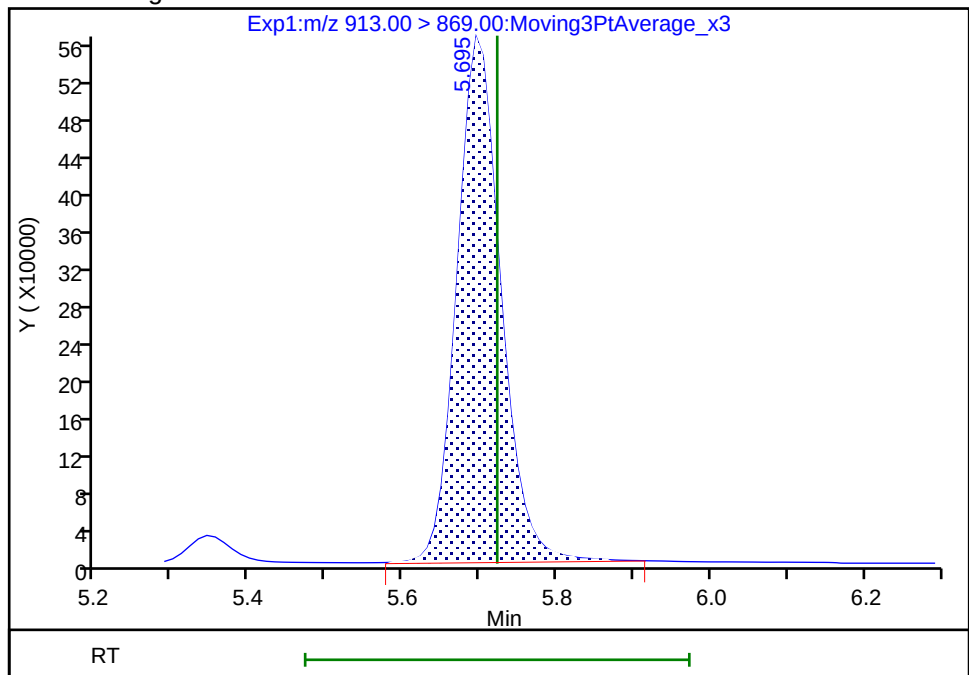
RT: 5.69
Area: 2264814
Amount: 1.006202
Amount Units: ng/ml

Processing Integration Results



RT: 5.69
Area: 2241994
Amount: 0.996063
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:49:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-187189/1-A

Matrix: Solid Lab File ID: PA230105A11.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.00 (g) Date Analyzed: 01/05/2023 16:11

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.: 187284 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
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11
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.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-187189/1-A

Matrix: Solid Lab File ID: PA230105A11.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.00 (g) Date Analyzed: 01/05/2023 16:11

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.: 187284 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	86		50-150
STL00990	13C4 PFOA	85		50-150
STL00995	13C5 PFNA	88		50-150
STL00992	13C4 PFBA	74		50-150
STL00993	13C2 PFHxA	81		50-150
STL00996	13C2 PFDA	92		50-150
STL00997	13C2 PFUnA	90		50-150
STL00994	18O2 PFHxS	83		50-150
STL00998	13C2 PFDoA	82		50-150
STL00991	13C4 PFOS	78		50-150
STL01056	13C8 FOSA	76		50-150
STL01893	13C5 PFPeA	75		50-150
STL02116	13C2 PFTeDA	74		50-150
STL02118	d3-NMeFOSAA	81		50-150
STL02117	d5-NEtFOSAA	81		50-150
STL02279	M2-6:2 FTS	94		50-150
STL02337	13C3 PFBS	79		50-150
STL02280	M2-8:2 FTS	87		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
 Lims ID: MB 200-187189/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Jan-2023 16:11:10 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-187189/1-A
 Misc. Info.: 200-0053906-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:18:35 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 12:55:47

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										M
217.00 > 172.00	2.093	2.076	0.017	0.607	2600965	0.9284		74.3	7056	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.000	86841	0.0405			6.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2010024	0.9420		75.4	2671	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.387	-0.014	0.994	6302	0.003596			0.1	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2125371	0.9168		78.9	153371	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	2183	0.001044	Target=2.09		2.5	M
298.90 > 99.00	2.400	2.400	0.0	1.000	897		2.43(1.04-3.13)		0.4	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	0.995	467	0.000880			7.7	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.783	201119	0.9818		84.1	172	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2272420	1.02		81.3	5420	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.725	2.725	0.0	1.000	3676	0.001856	Target=14.25		0.6	RM
313.00 > 119.00	2.737	2.725	0.012	1.004	557		6.60(7.12-21.37)		0.9	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	600	0.000322	Target=3.04		1.0	M
349.00 > 99.00	2.713	2.737	-0.024	0.879	376		1.60(1.52-4.56)		0.9	M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.847	2.835	0.012	1.004	581	0.001686			3.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										M
287.00 > 169.00	2.835	2.835	0.0	0.822	407991	1.03		82.7	2198	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1652400	0.9785		82.7	3366	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	5933	0.003762	Target=3.66		16.8	M
399.00 > 99.00	3.099	3.088	0.011	1.004	1811		3.28(1.83-5.49)		2.8	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	2460020	1.07		85.6	3248	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.088	3.099	-0.011	1.000	2747	0.001282	Target=3.97		0.6	RM
363.00 > 169.00	3.099	3.099	0.0	1.004	1632		1.68(1.98-5.95)		2.5	M
77 DONA										M
377.00 > 251.00	3.143	3.132	0.011	0.837	1853	0.000378	Target=3.16		2.8	M
377.00 > 85.00	3.143	3.132	0.011	0.837	790		2.35(1.58-4.73)		1.6	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.995	317022	1.12		94.3	712	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.000	1121	-0.009885			1.1	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2748552	1.06		85.1	3902	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		3122076	1.25			2667	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.439	3.448	-0.009	0.997	6132	0.002609	Target=2.79		0.5	
413.00 > 169.00	3.430	3.448	-0.018	0.995	2129		2.88(1.40-4.19)		2.1	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.089	1064384	0.9289		77.7	4038	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.754	3.764	-0.010	1.000	3860	0.003563	Target=5.11		4.4	RM
499.00 > 99.00	3.754	3.764	-0.010	1.000	1600		2.41(2.55-7.66)		2.0	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.764	3.783	-0.019	0.997	1529	0.000666	Target=8.55		0.5	M
463.00 > 169.00	3.764	3.783	-0.019	0.997	313		4.88(4.28-12.83)		2.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.094	2767051	1.10		88.1	7167	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.046	1507	0.000606			7.2	M
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.181	2949697	1.15		92.2	2994	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.081	4.081	0.0	1.003	2726	0.001065	Target=10.26		0.9	RM
513.00 > 169.00	4.071	4.081	-0.010	1.000	543		5.02(5.13-15.38)		1.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.184	362310	1.05		87.3	1231	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.081	4.093	-0.012	1.000	749	0.001531			6.9	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.161	4.150	0.011	1.006	1025	0.000616		1.9		M
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.200	1991504	0.9489		75.9	2318	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.223	527113	1.01		80.9	4189	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.005	1847	-0.006535		4.9		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.308	4.331	-0.023	1.148	442	0.000685	Target=2.51	4.2		M
599.00 > 99.00	4.319	4.331	-0.012	1.151	197		2.24(1.25-3.76)	2.8		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.259	2649734	1.13		90.4	4514	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.005	1493	0.003999		7.9		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.263	521233	1.02		81.2	1220	
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.443	4.454	-0.011	1.183	2399	0.000626		8.4		M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.002	3014	0.001456	Target=7.77	0.3		
613.00 > 169.00	4.591	4.591	0.0	1.002	668		4.51(3.89-11.66)	5.4		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.579	4.591	-0.012	1.328	2442431	1.02		81.8	4022	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.758	4.776	-0.018	1.267	169	0.000619	Target=0.50	4.8		M
699.00 > 99.00	4.758	4.776	-0.018	1.267	426		0.40(0.25-0.76)	7.2		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.011	5.012	-0.001	1.004	388	0.001860	Target=0.89	5.3		M
713.00 > 219.00	4.991	5.012	-0.021	1.000	447		0.87(0.44-1.33)	6.7		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.991	5.012	-0.021	1.448	1904803	0.9221		73.8	5481	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.344	5.367	-0.023	1.000	24181	-0.004447	Target=5.65	3.4		M
813.00 > 169.00	5.344	5.367	-0.023	1.000	4453		5.43(2.82-8.47)	45.2		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.550	2602234	1.02		81.5	4396	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d

Injection Date: 05-Jan-2023 16:11:10

Instrument ID: LC812

Lims ID: MB 200-187189/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

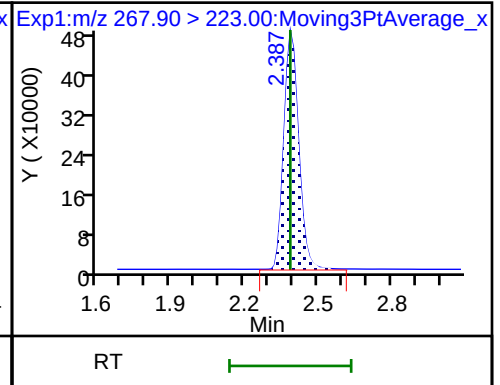
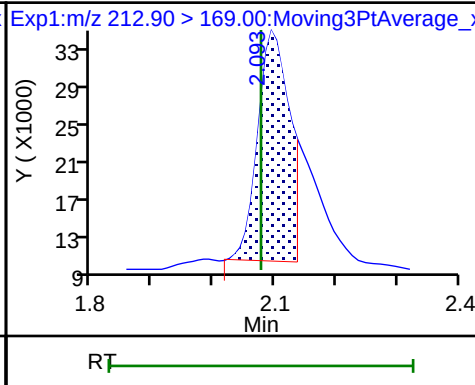
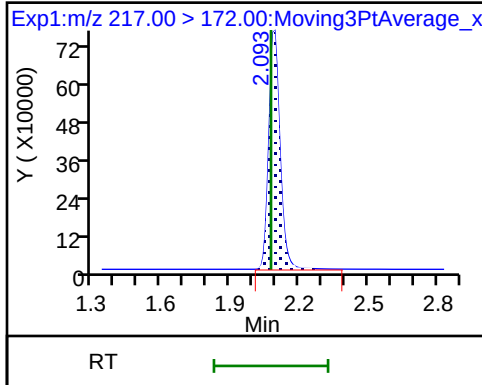
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

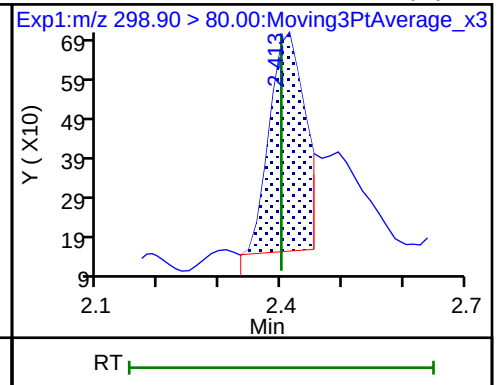
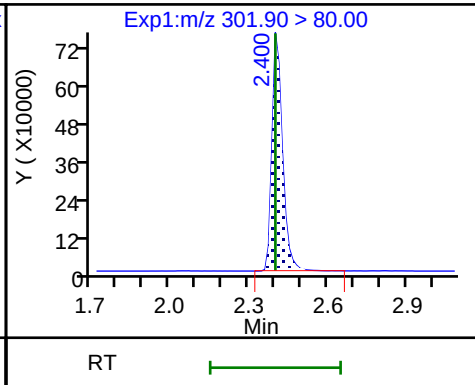
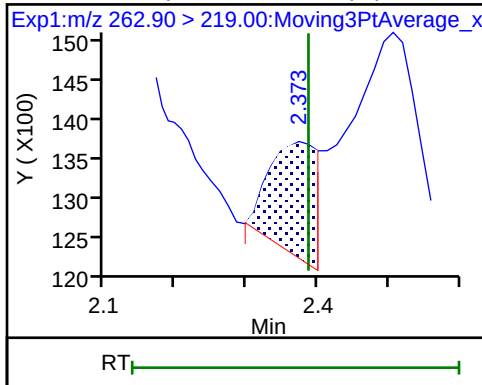
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

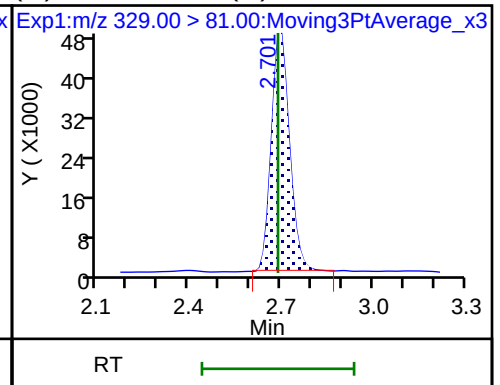
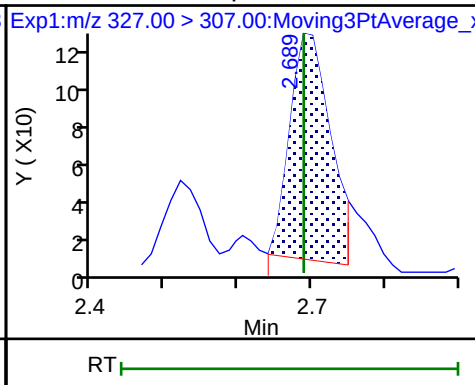
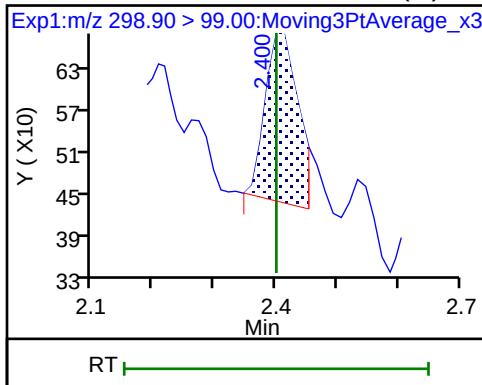
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

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

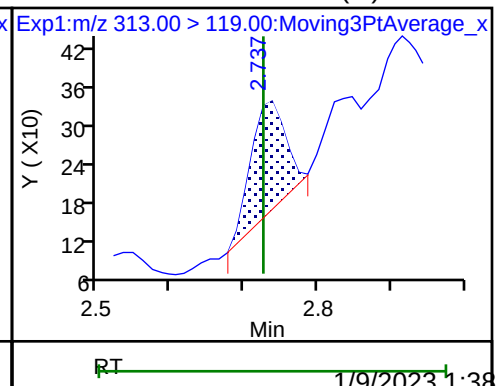
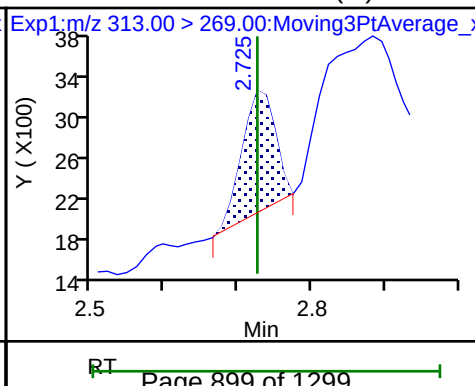
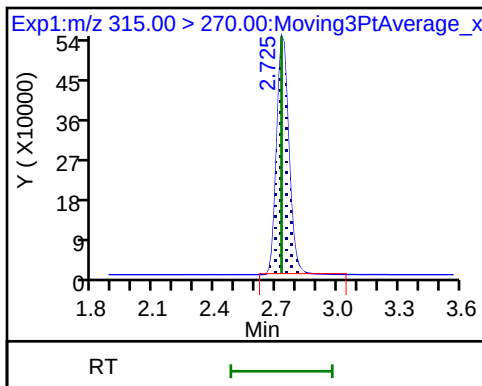
D 50 M2-4:2 FTS (M)

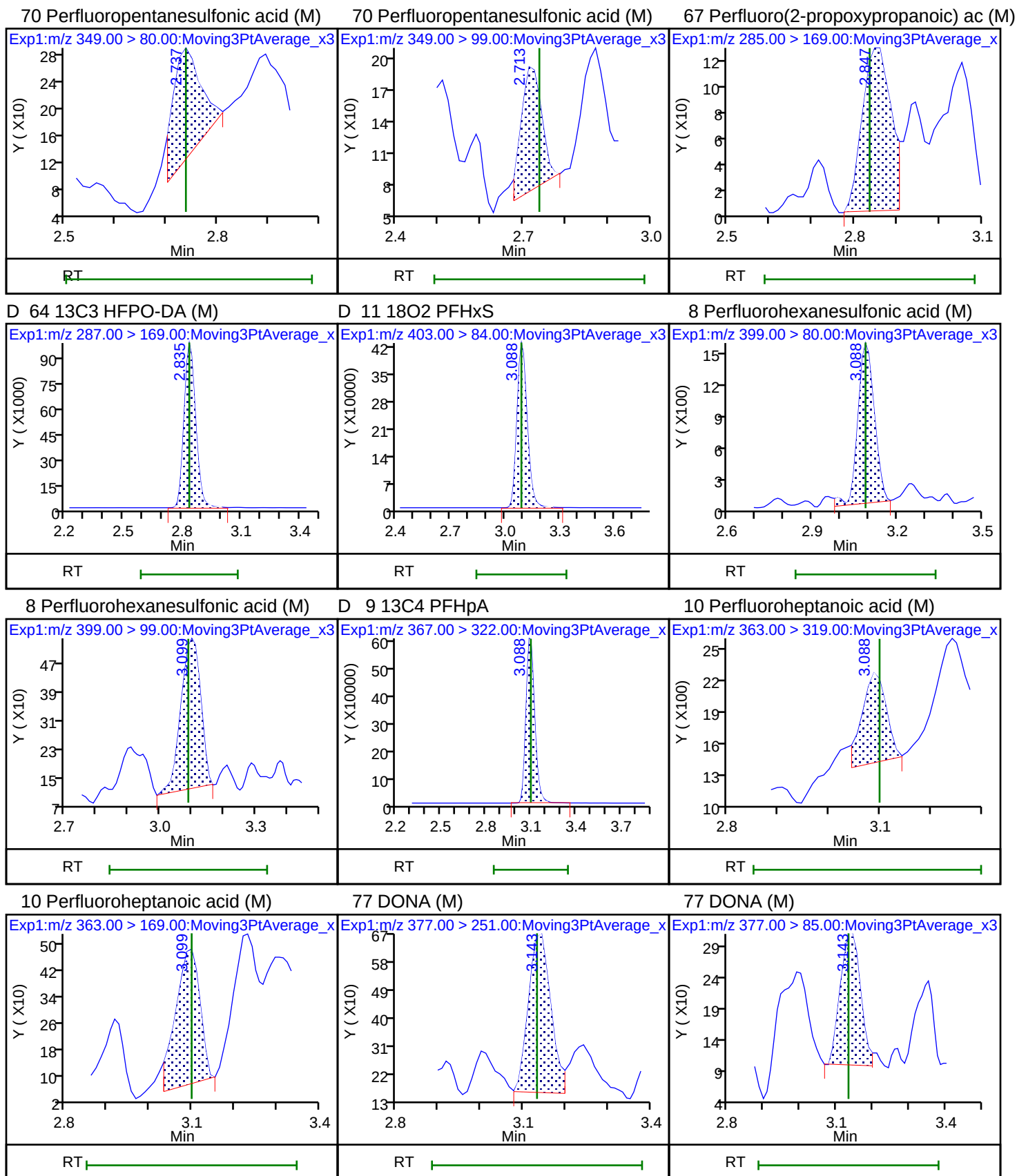


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

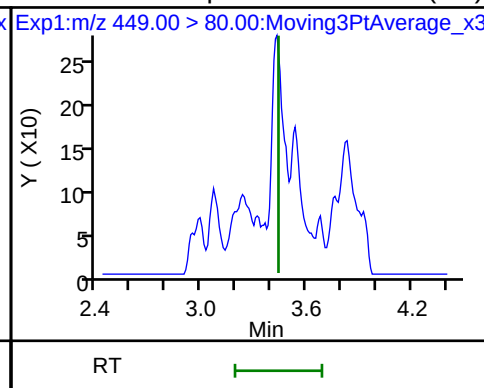
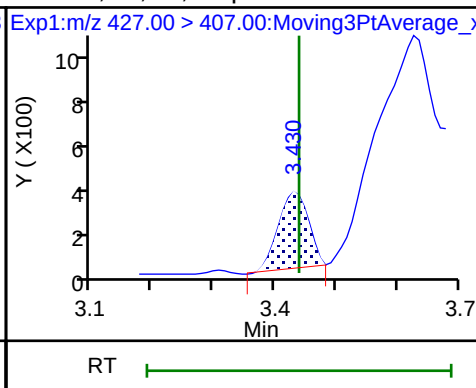
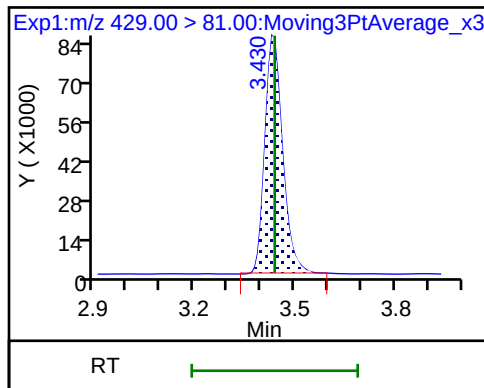




D 12 M2-6:2 FTS

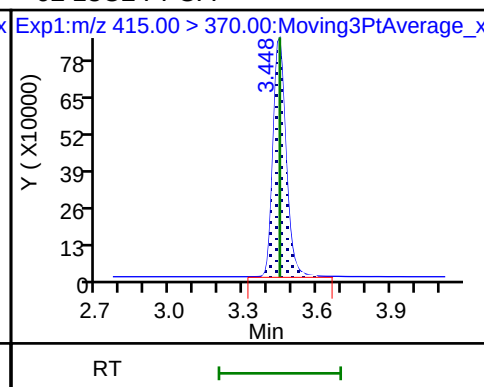
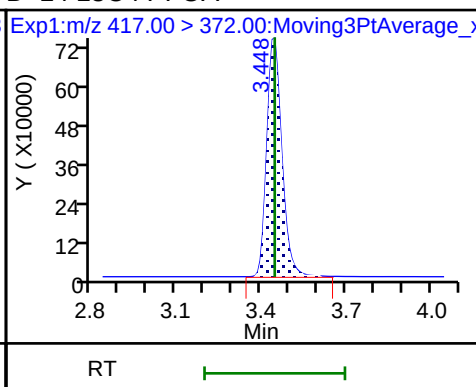
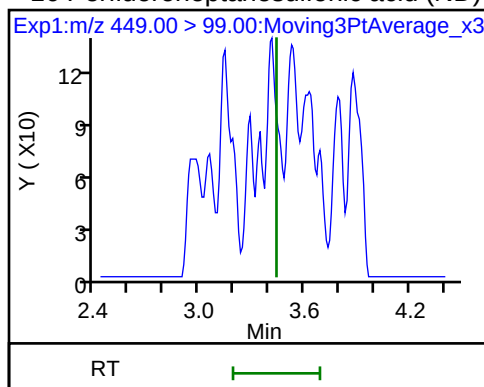
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

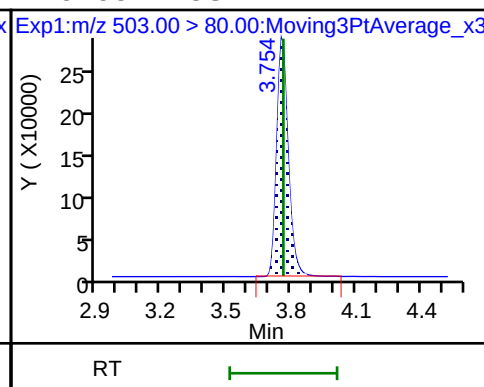
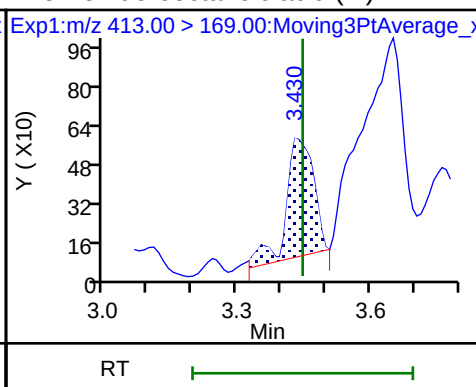
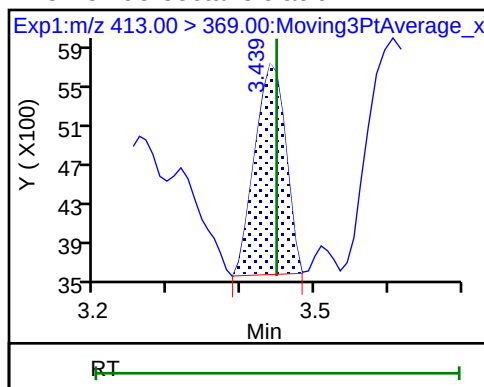
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

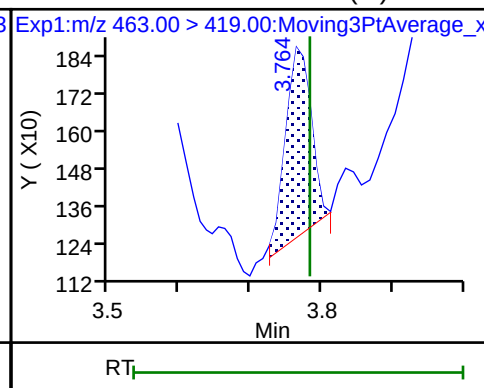
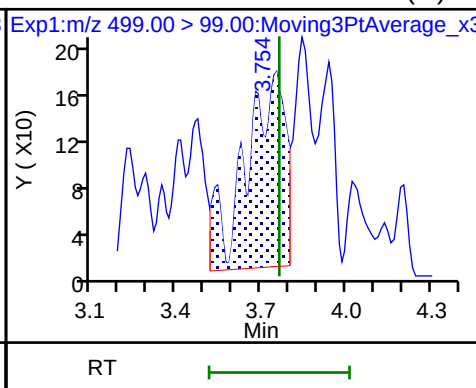
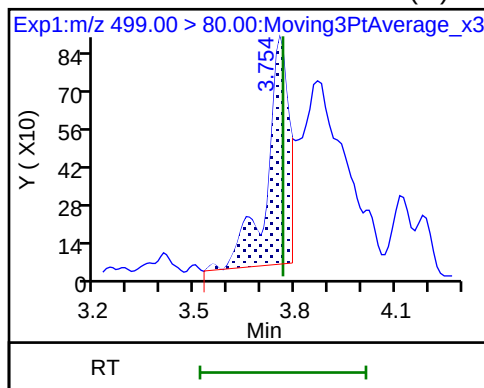
D 18 13C4 PFOS

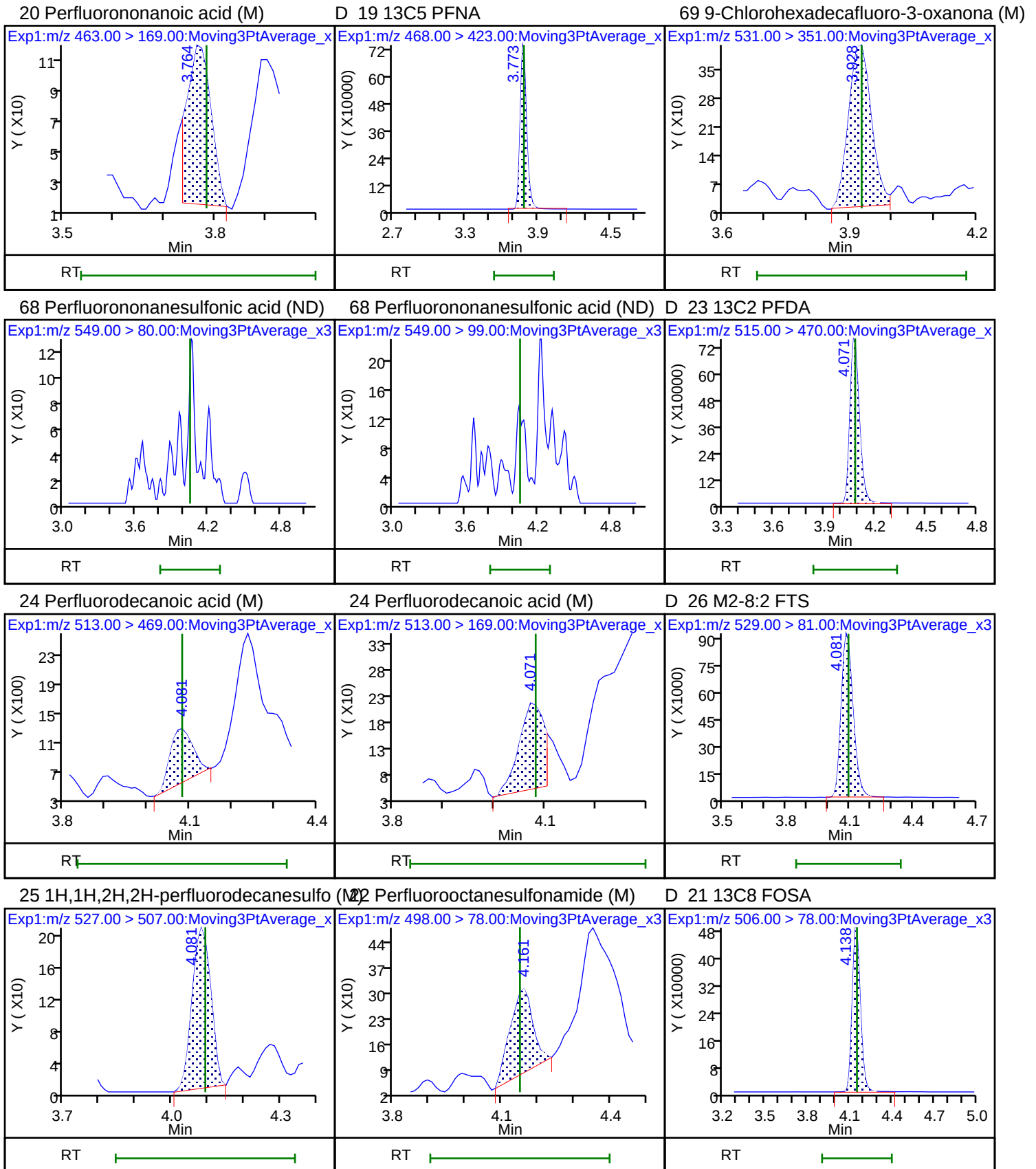


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

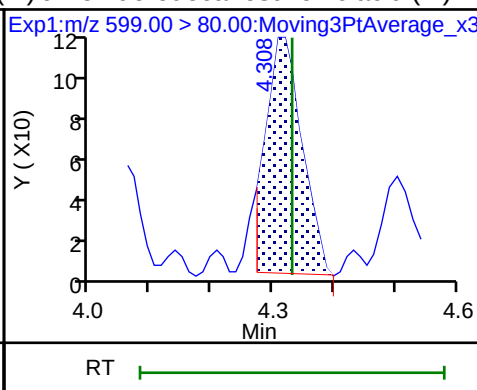
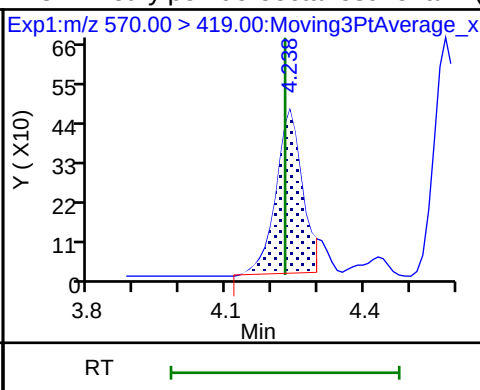
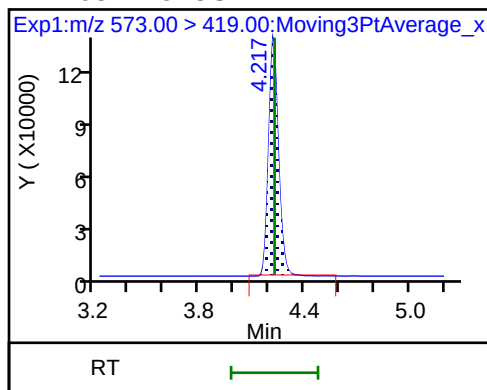




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M)

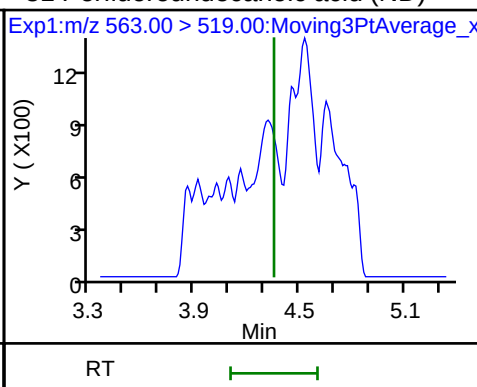
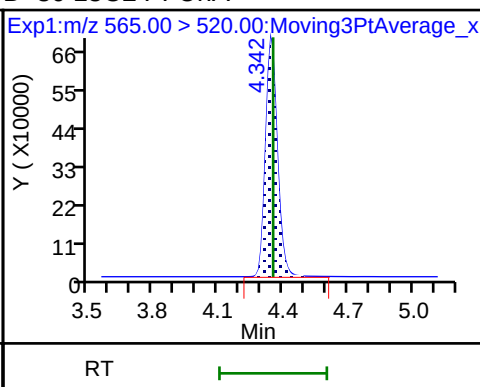
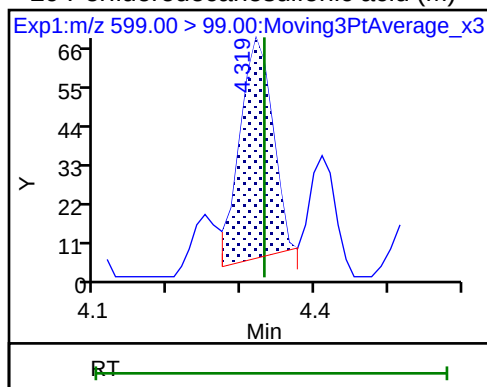
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

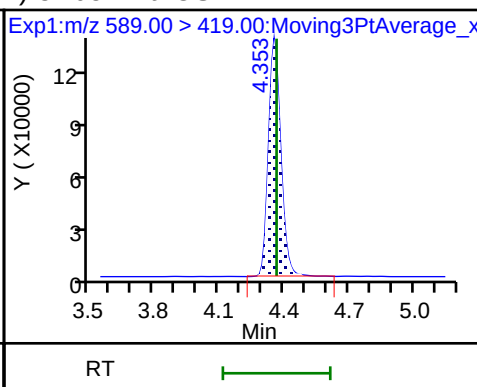
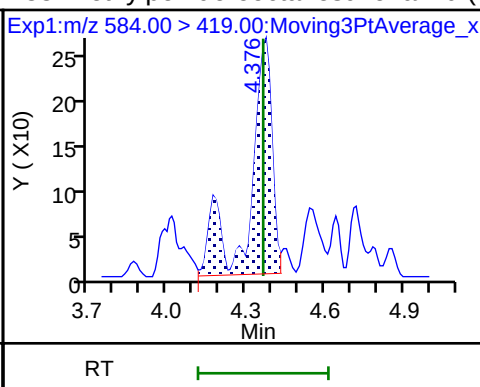
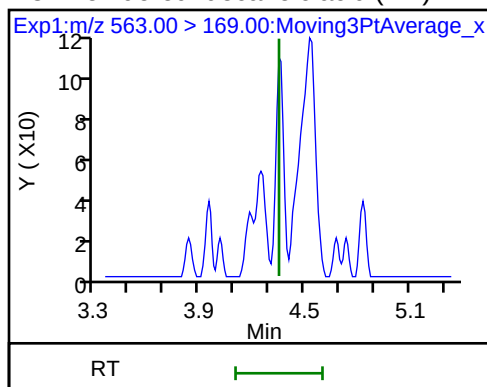
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

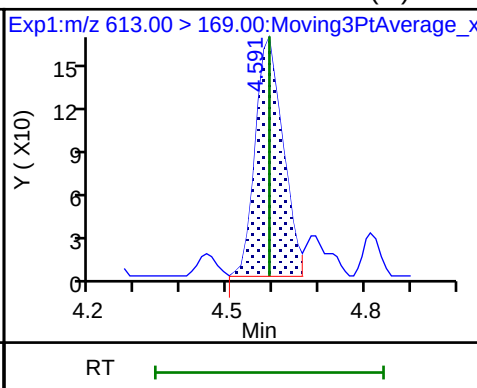
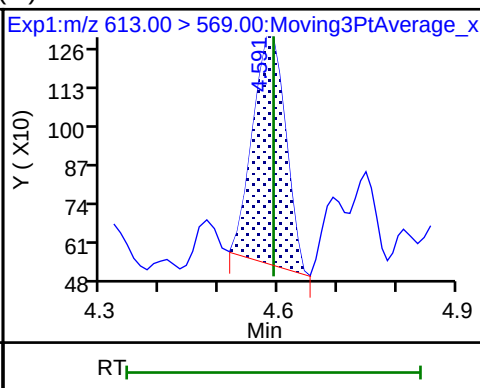
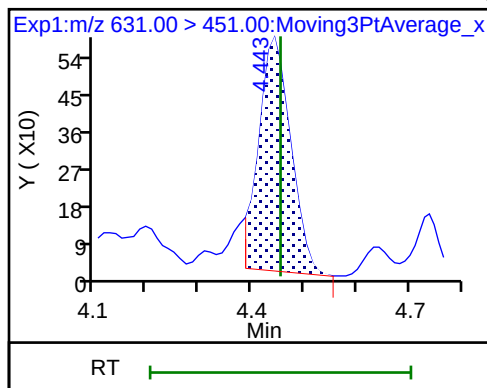
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

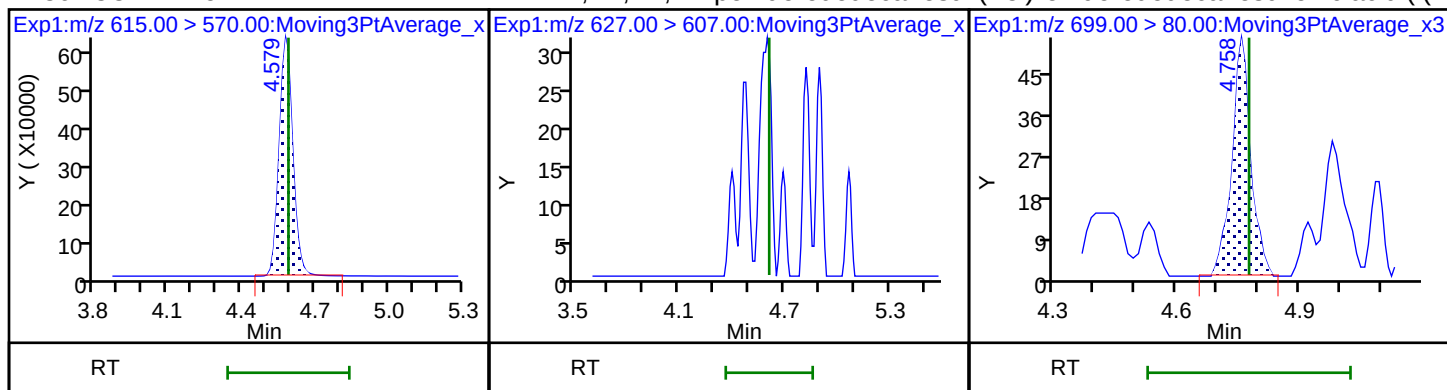
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



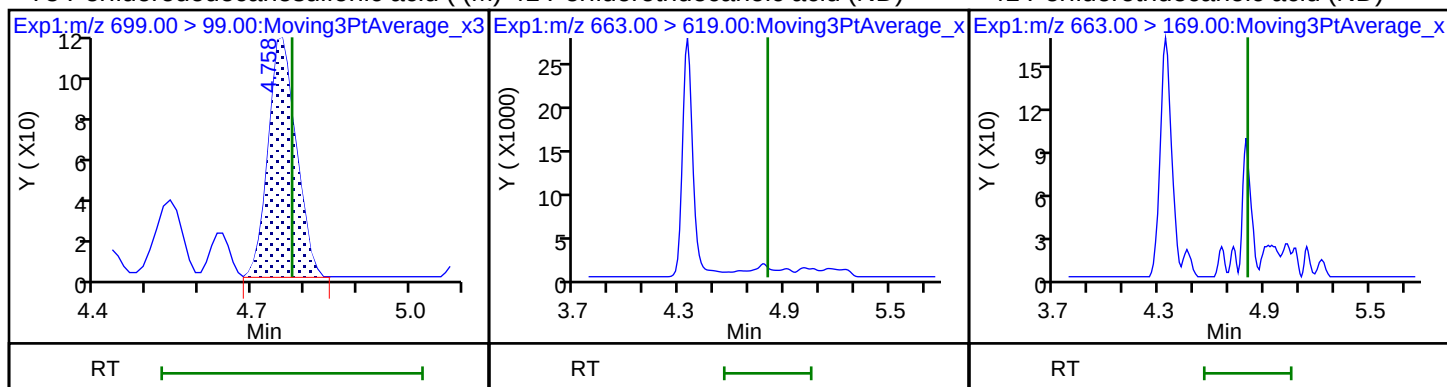
D 36 13C2 PFD0A

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



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (ND)

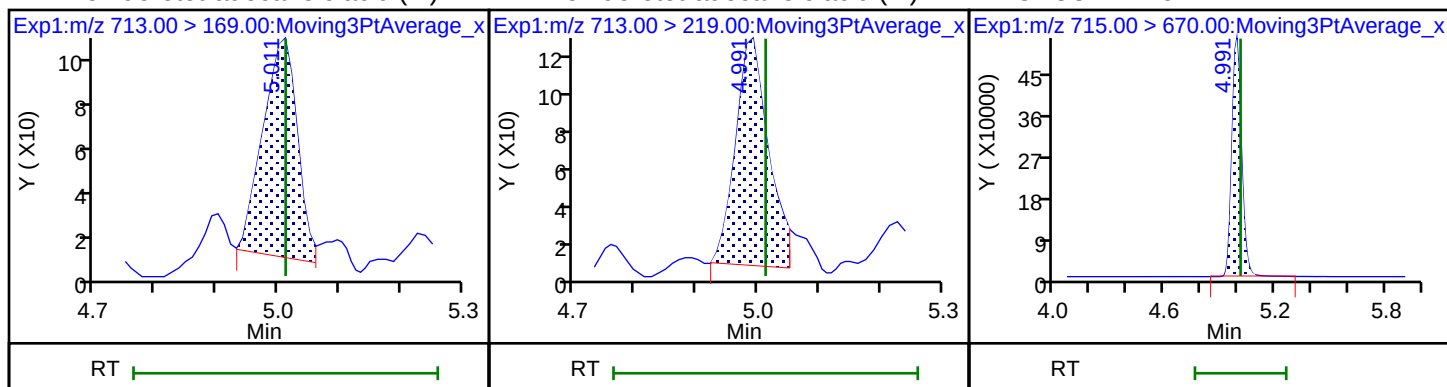
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

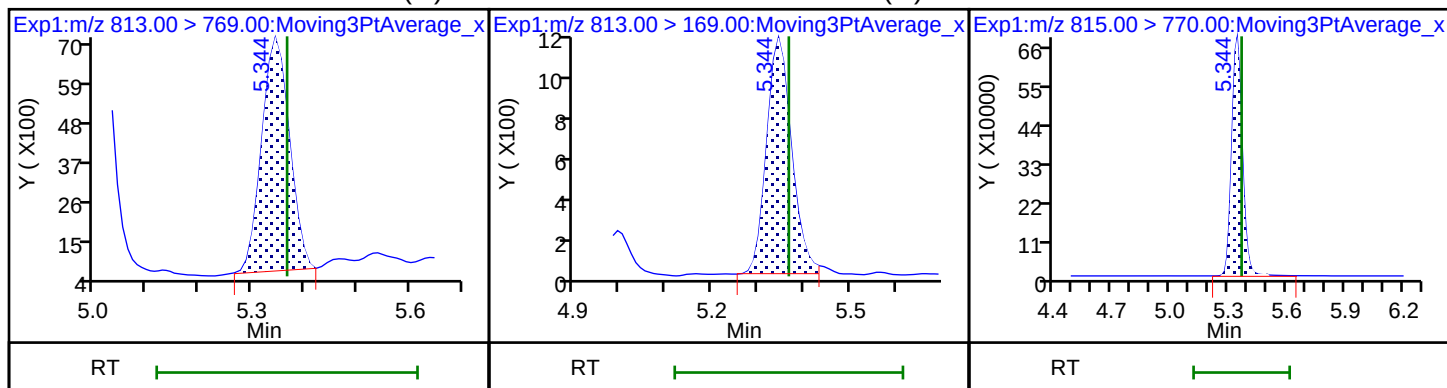
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

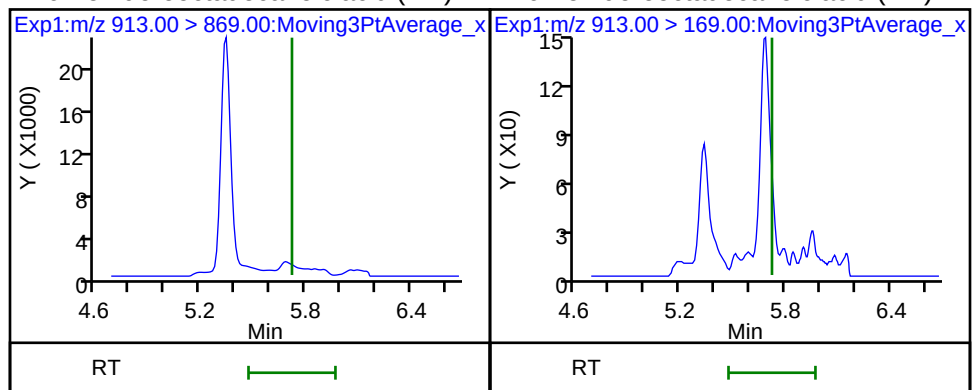
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

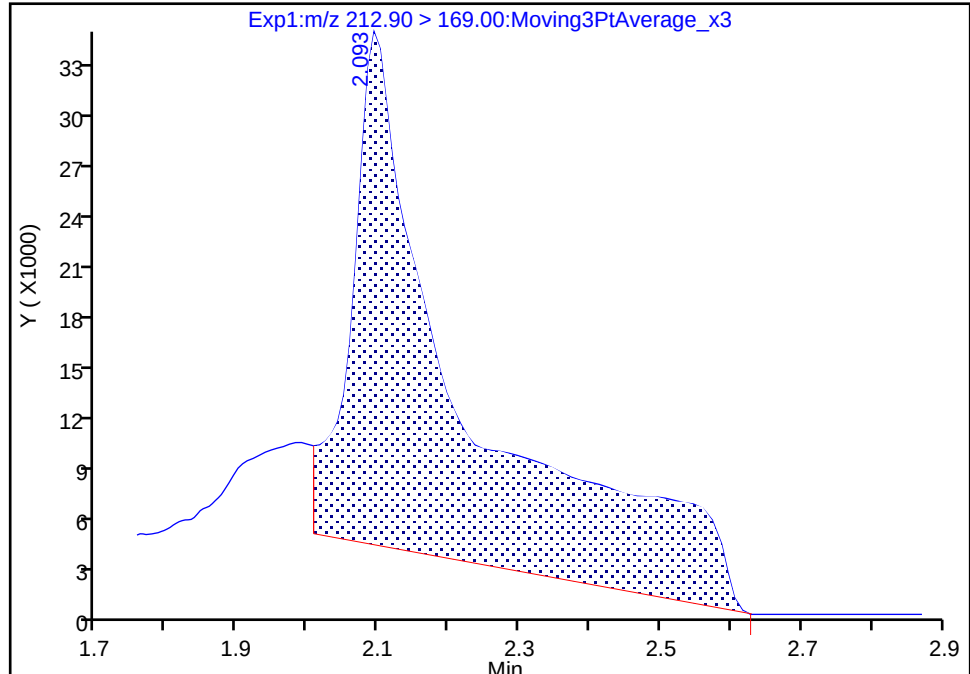
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Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

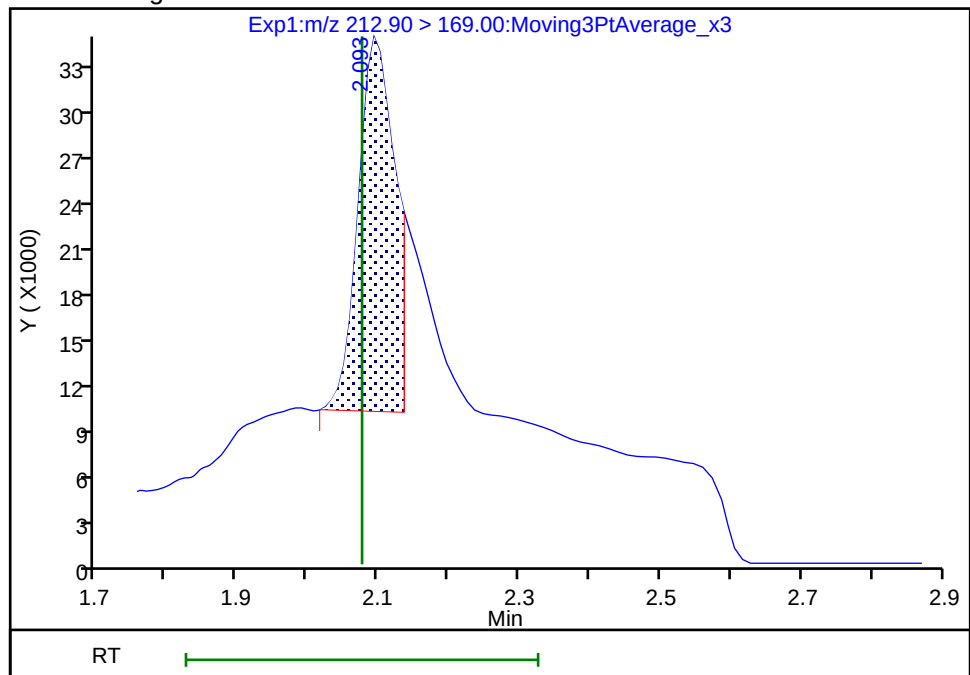
RT: 2.09
Area: 334702
Amount: 0.155988
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 86841
Amount: 0.040472
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:50:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

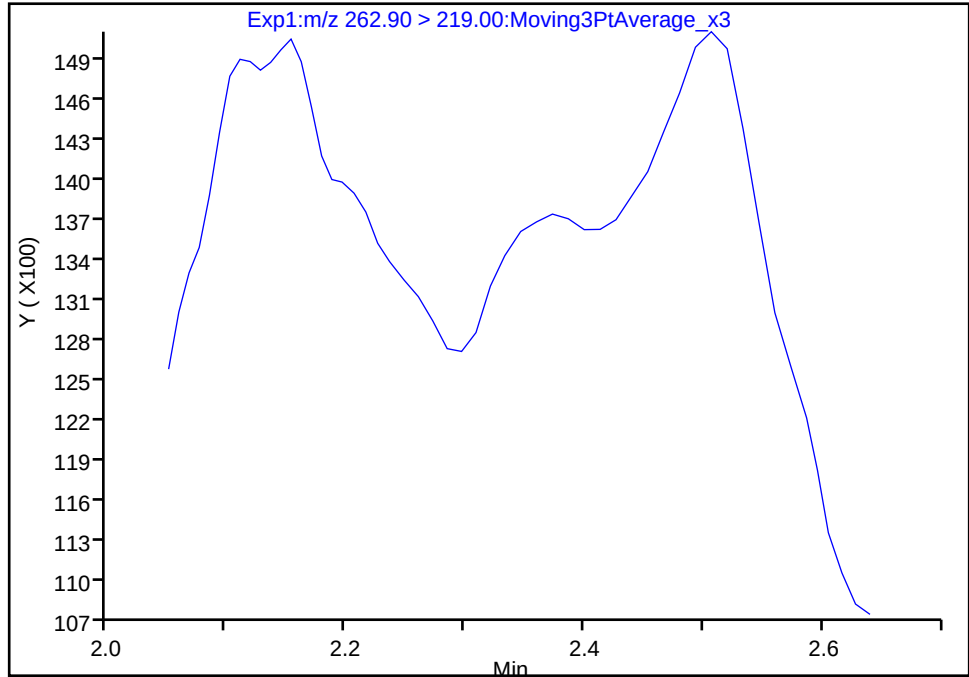
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Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

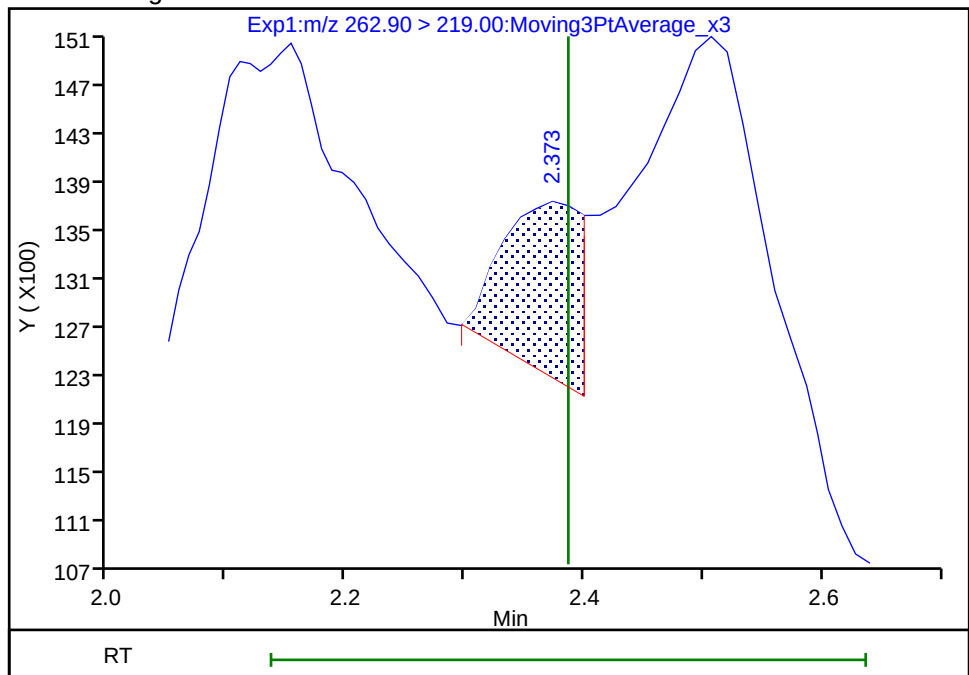
Not Detected
Expected RT: 2.39

Processing Integration Results



RT: 2.37
Area: 6302
Amount: 0.003596
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:50:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

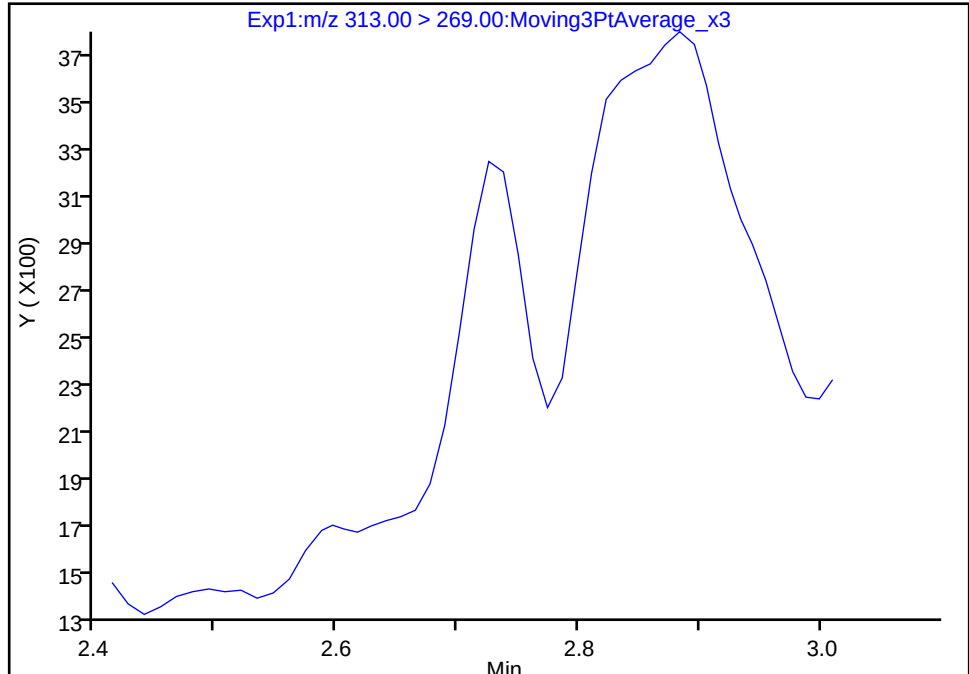
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Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

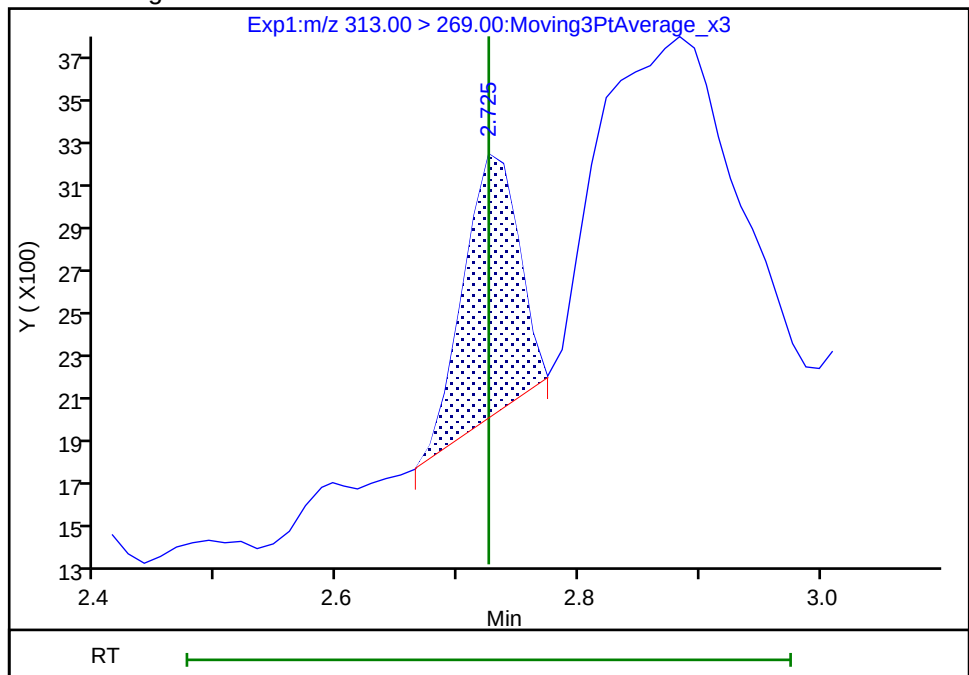
Signal: 1

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:51:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

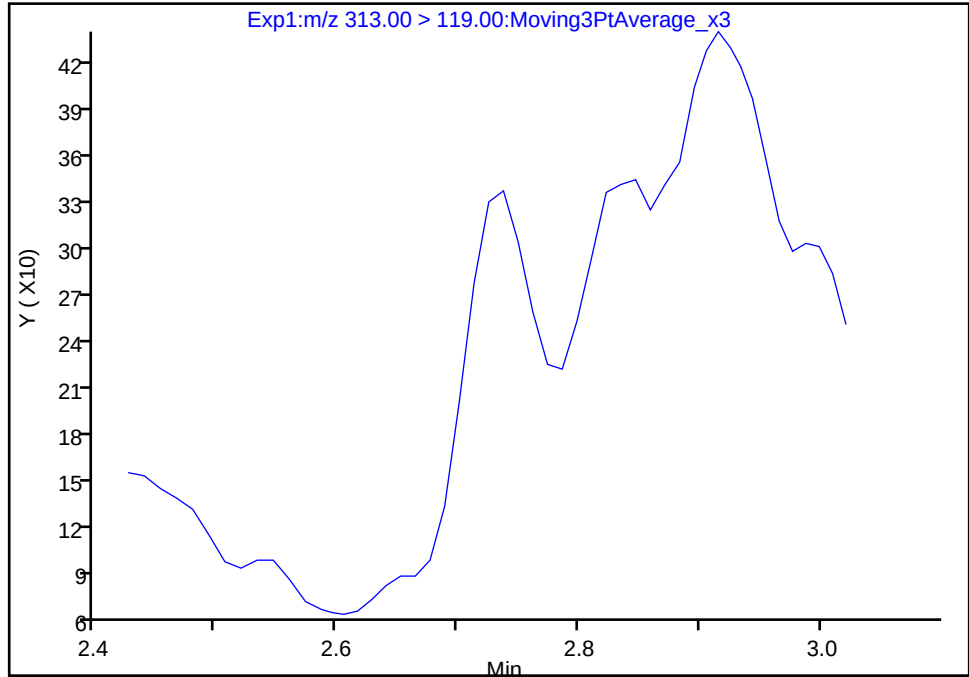
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

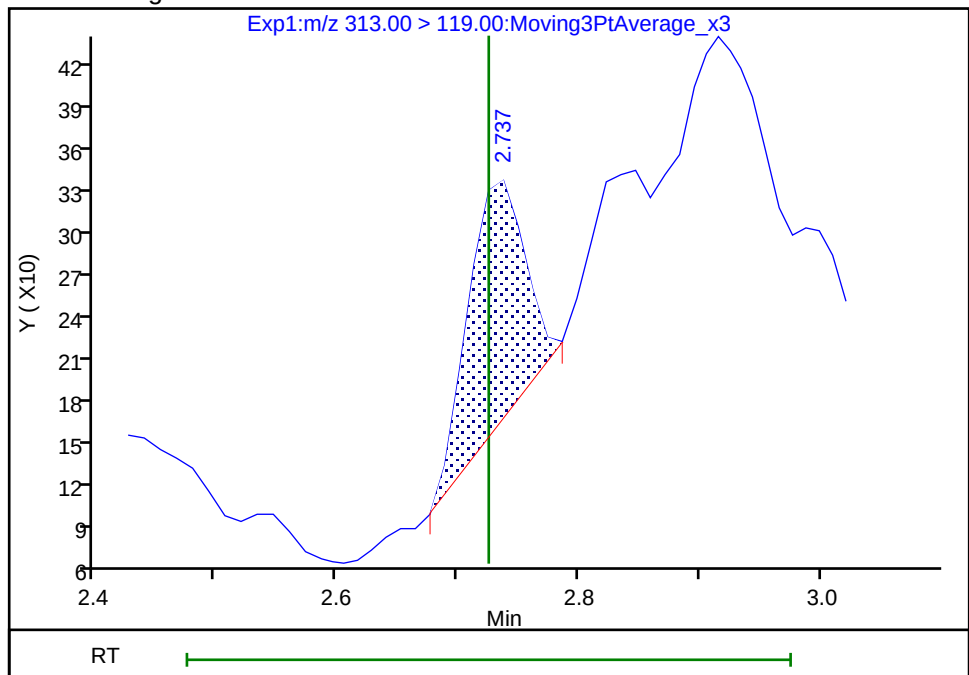
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 557
Amount: 0.001856
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:51:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

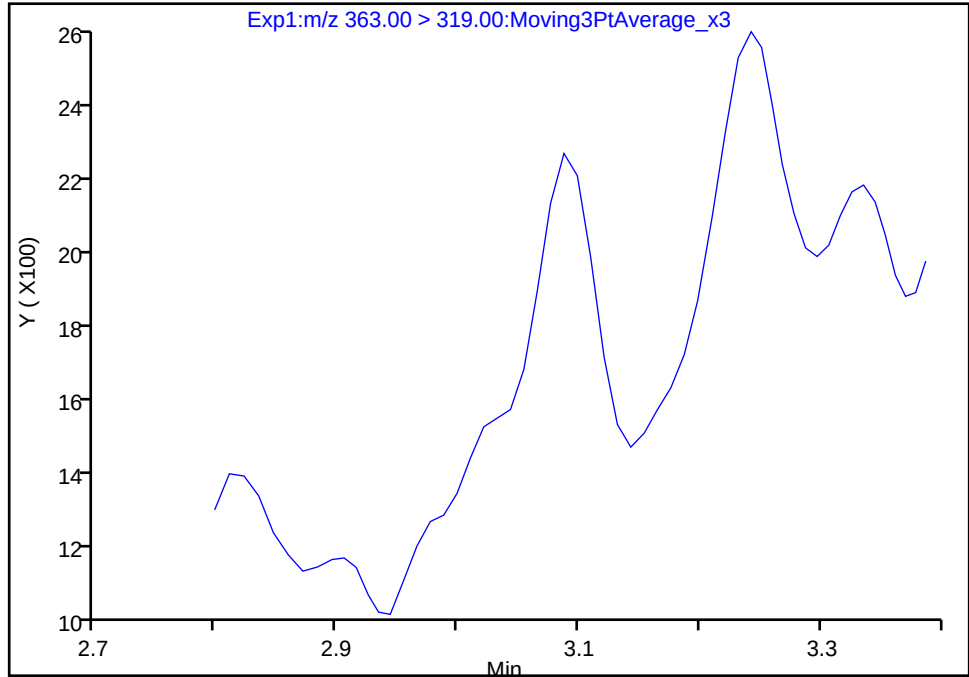
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

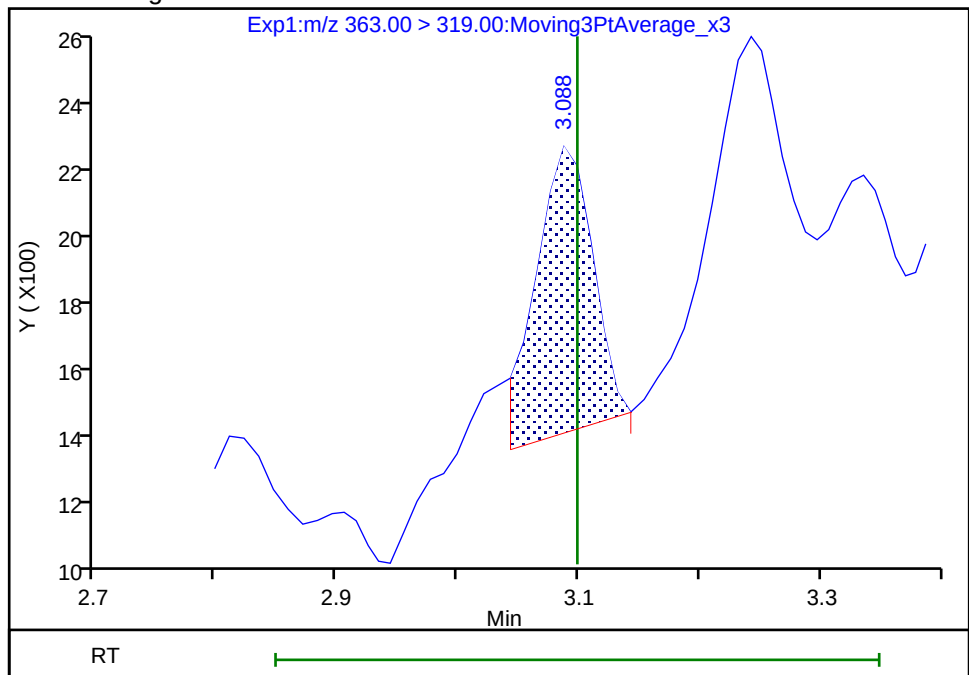
Signal: 1

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.09
Area: 2747
Amount: 0.001282
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 12:52:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

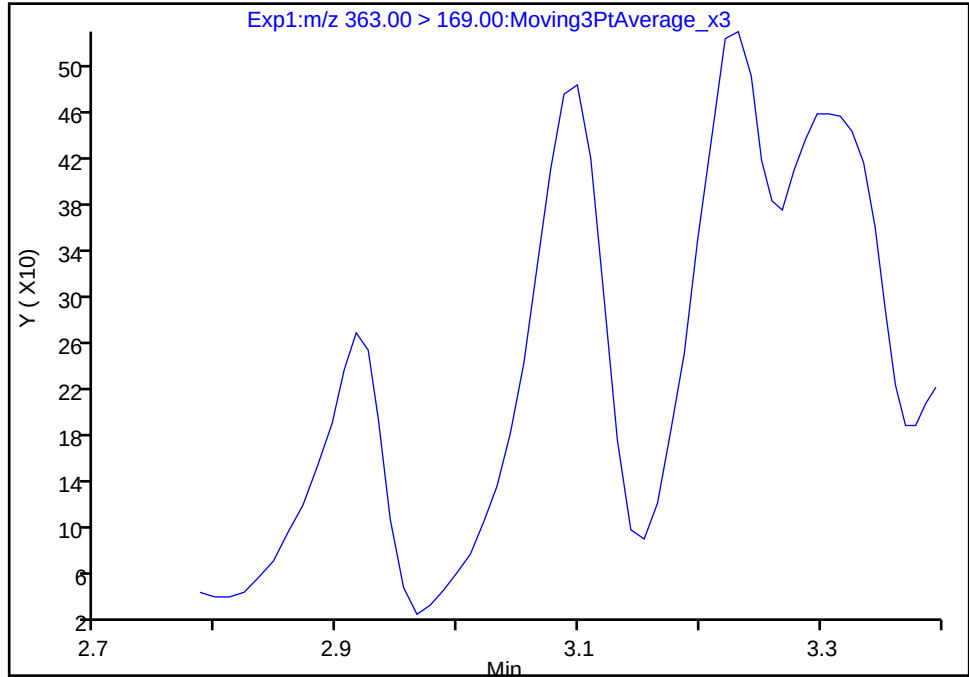
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

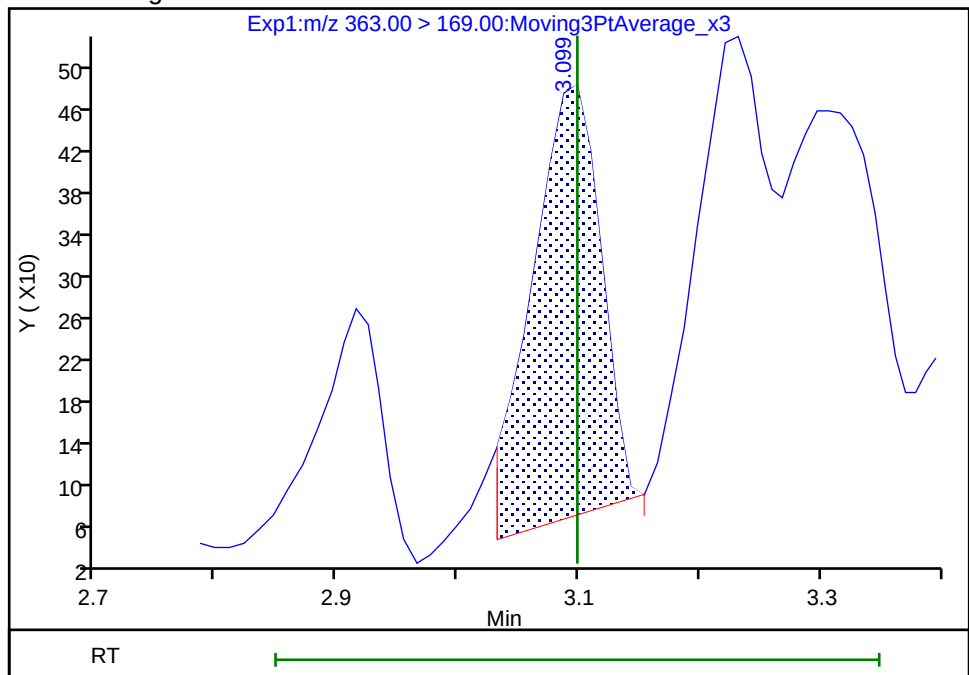
Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 1632
Amount: 0.001282
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:52:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

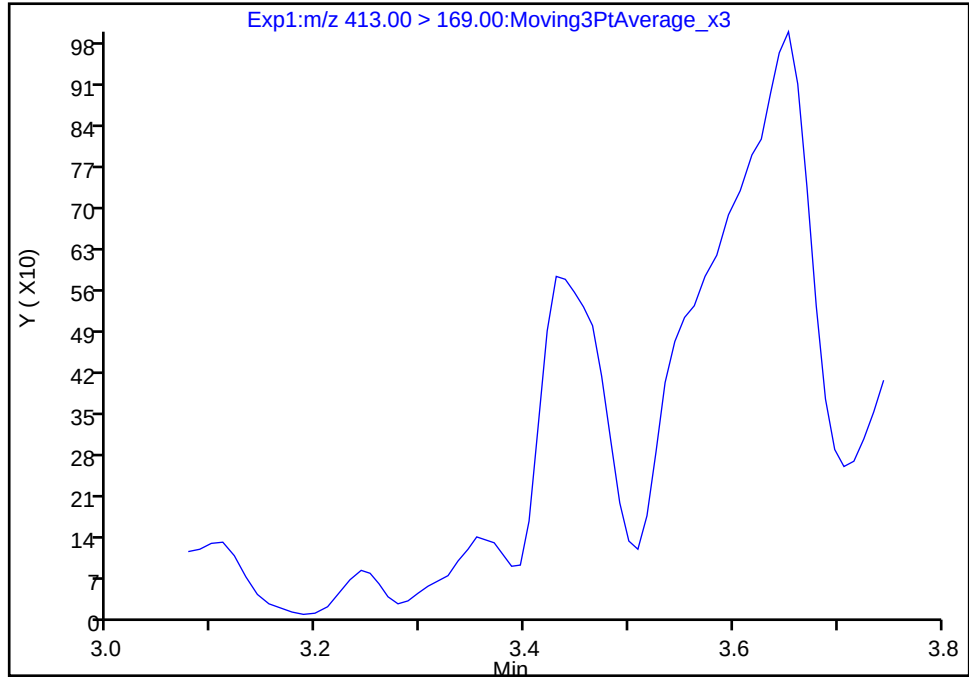
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

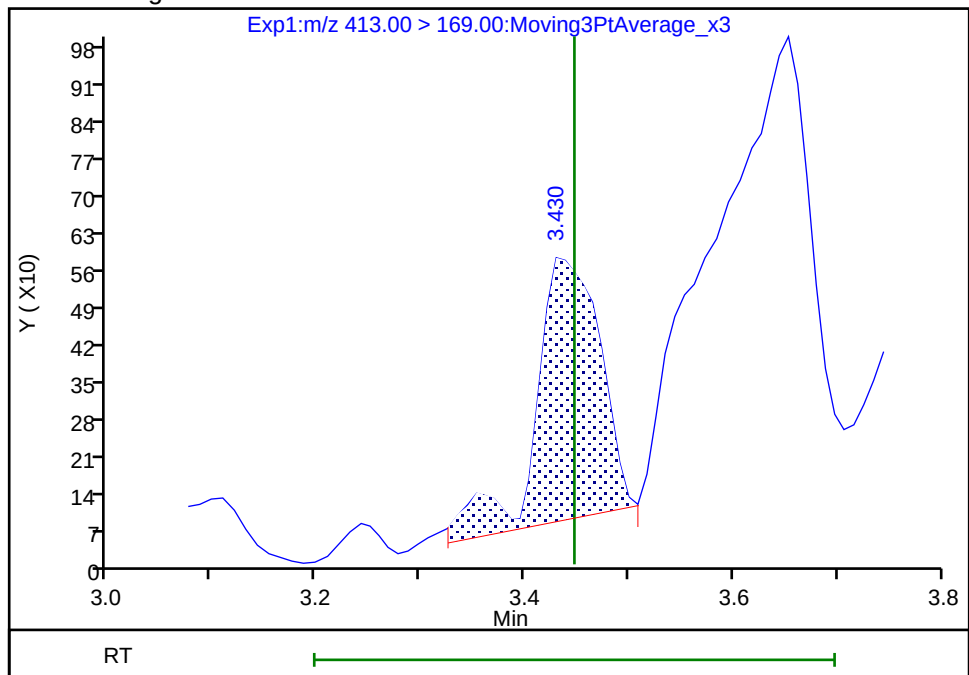
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 2129
Amount: 0.002609
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:52:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

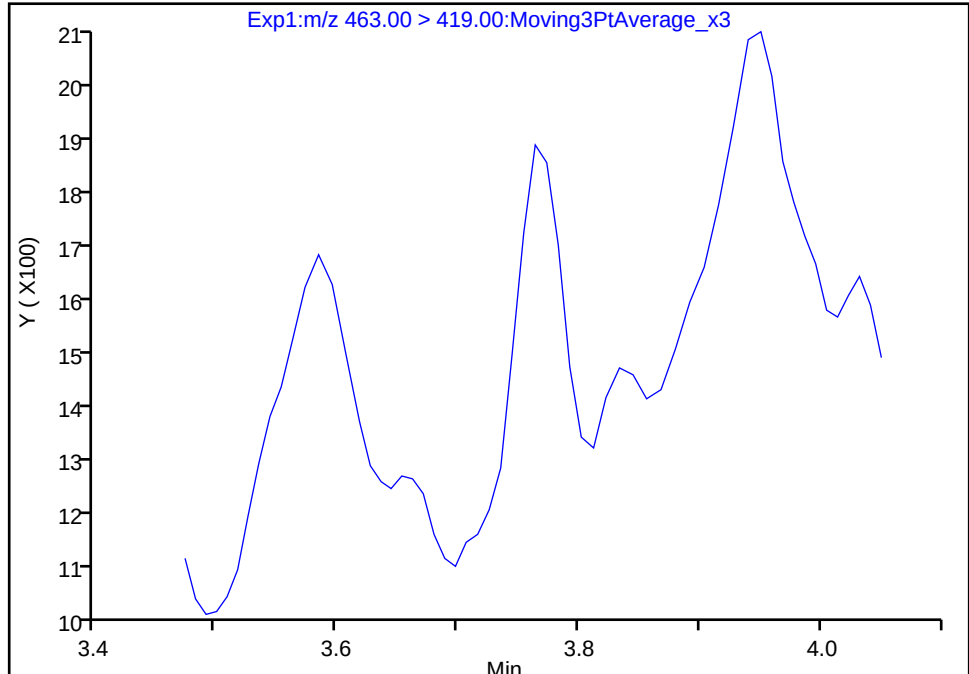
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

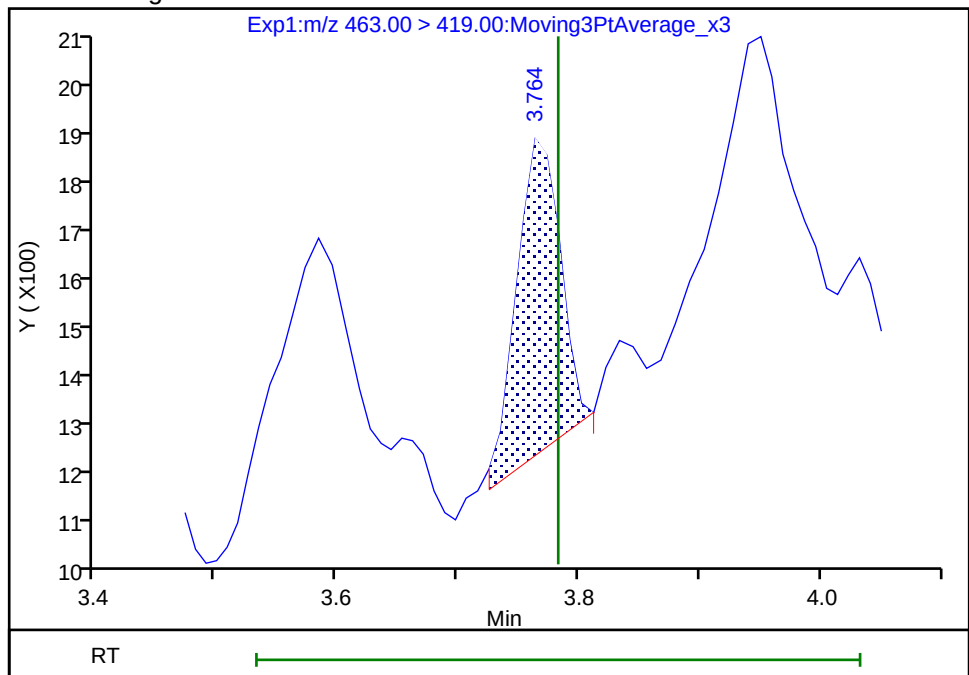
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.76
Area: 1529
Amount: 0.000666
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 12:53:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

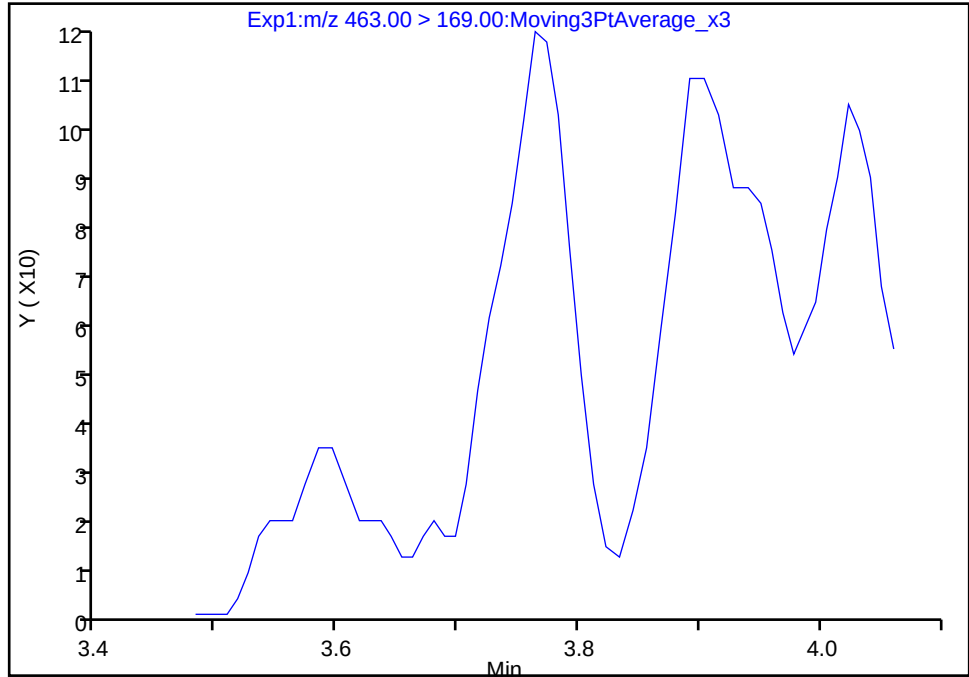
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

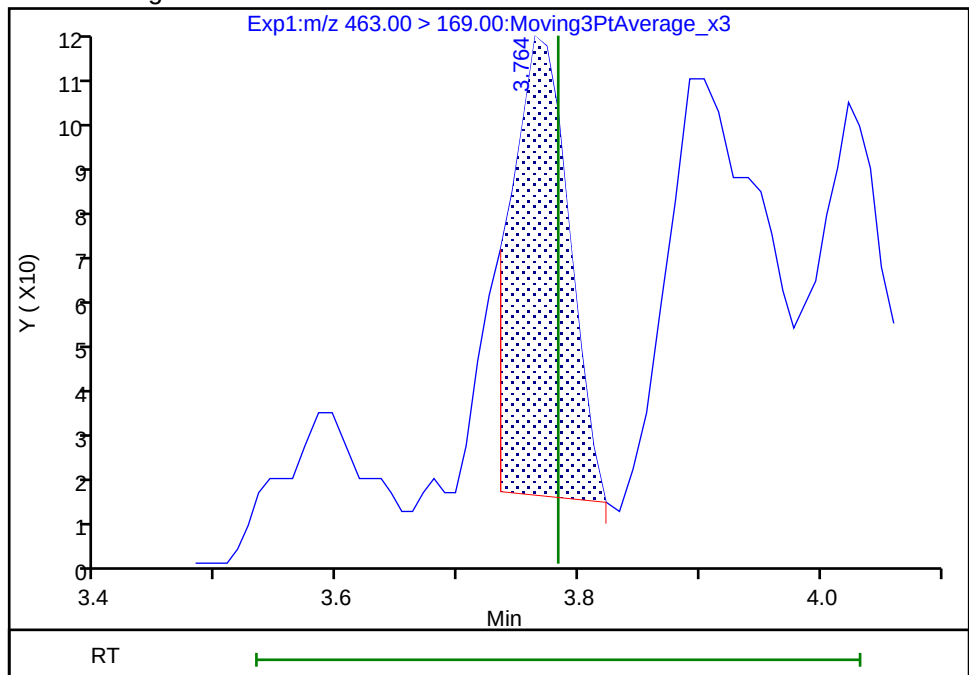
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.76
Area: 313
Amount: 0.000666
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:53:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

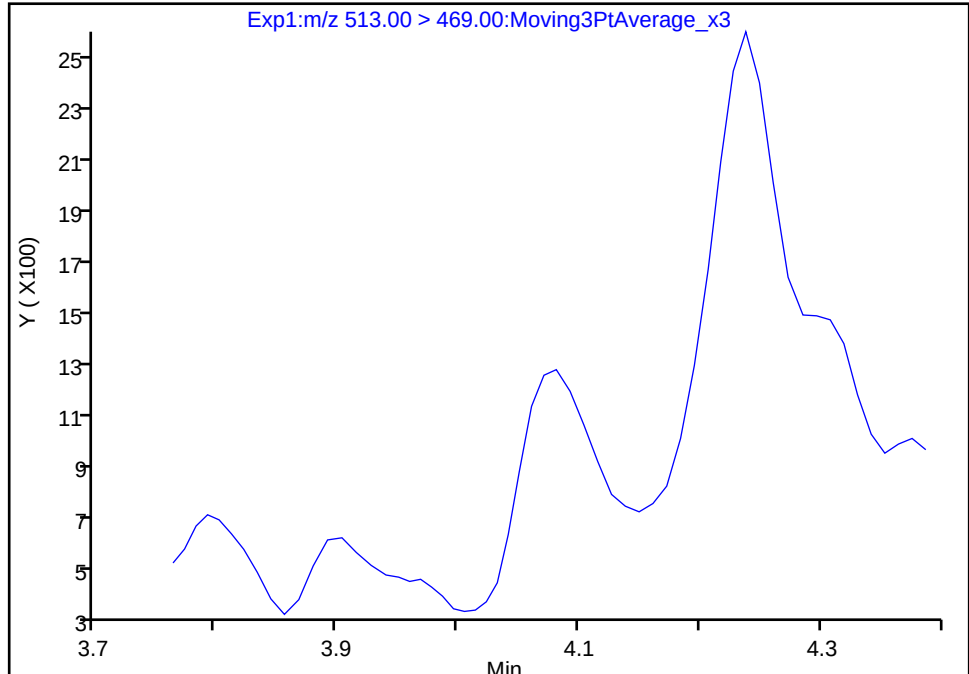
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

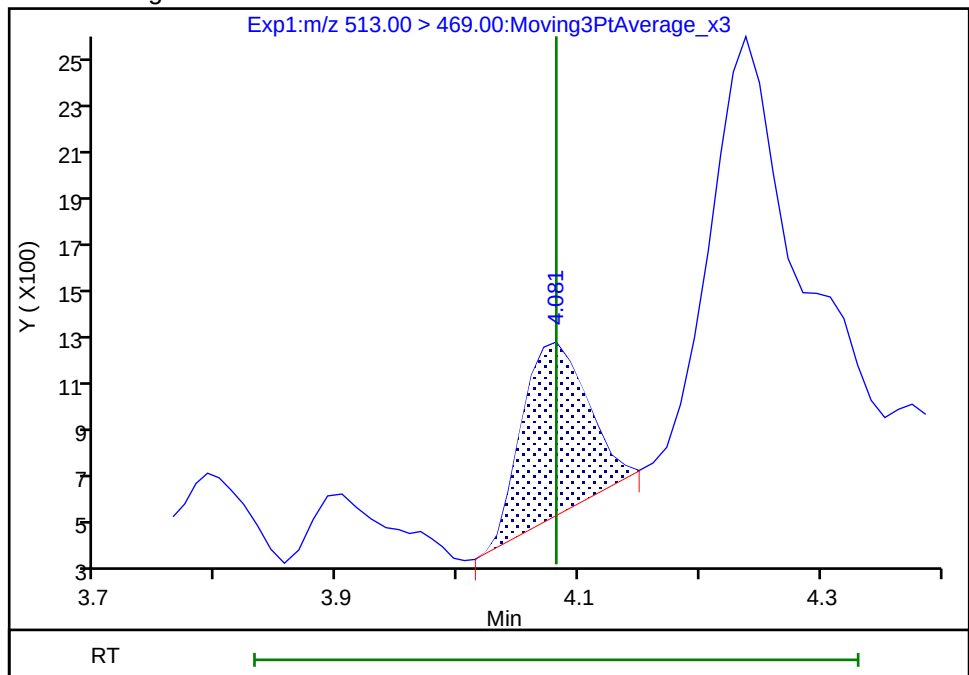
Signal: 1

Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.08
Area: 2726
Amount: 0.001065
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 12:53:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

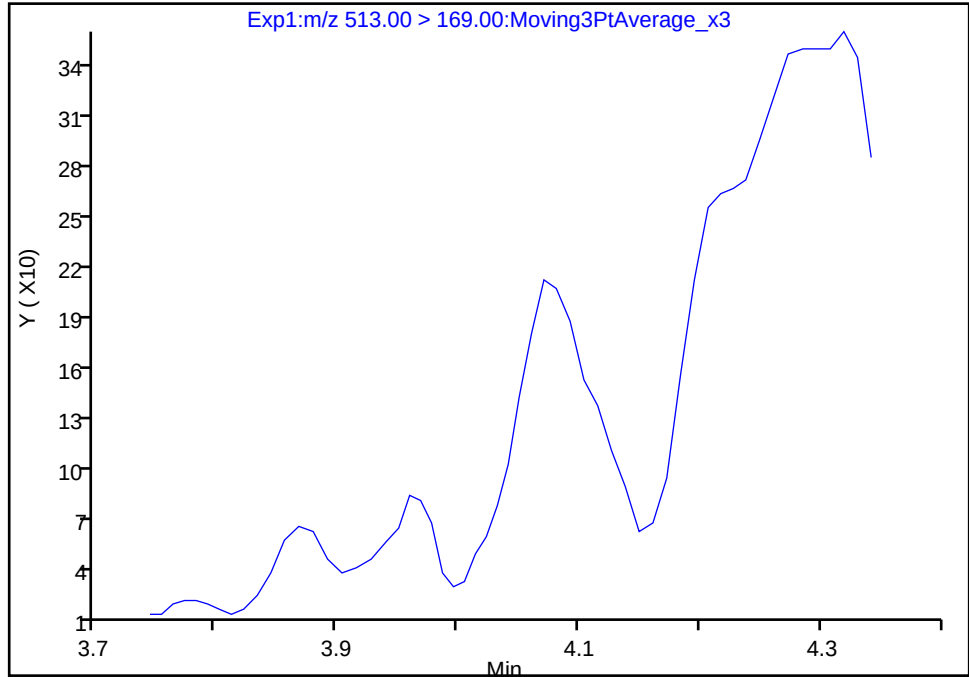
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

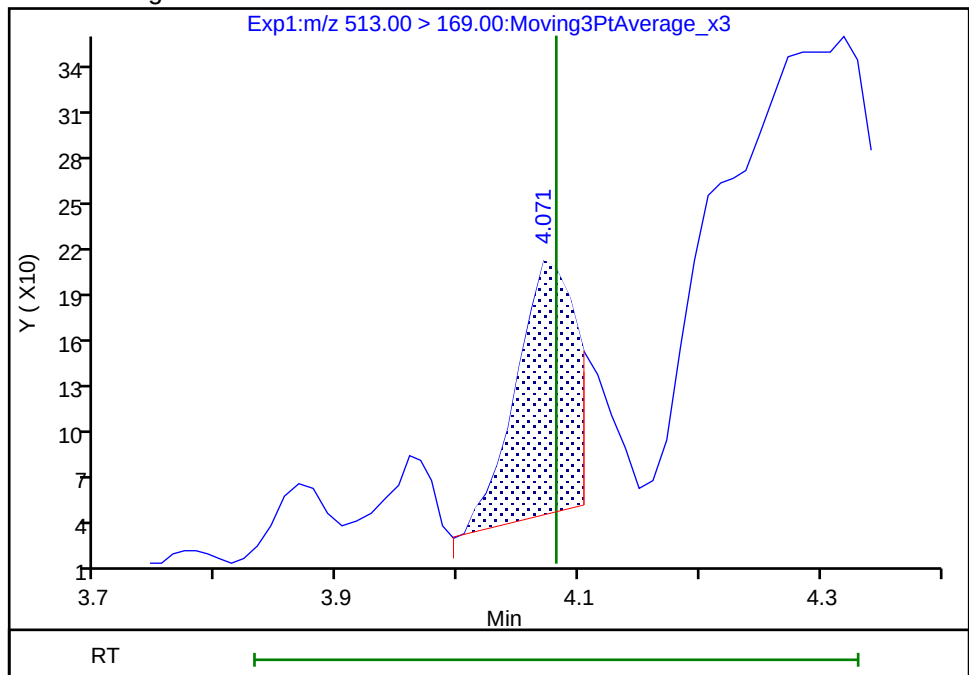
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 543
Amount: 0.001065
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:53:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

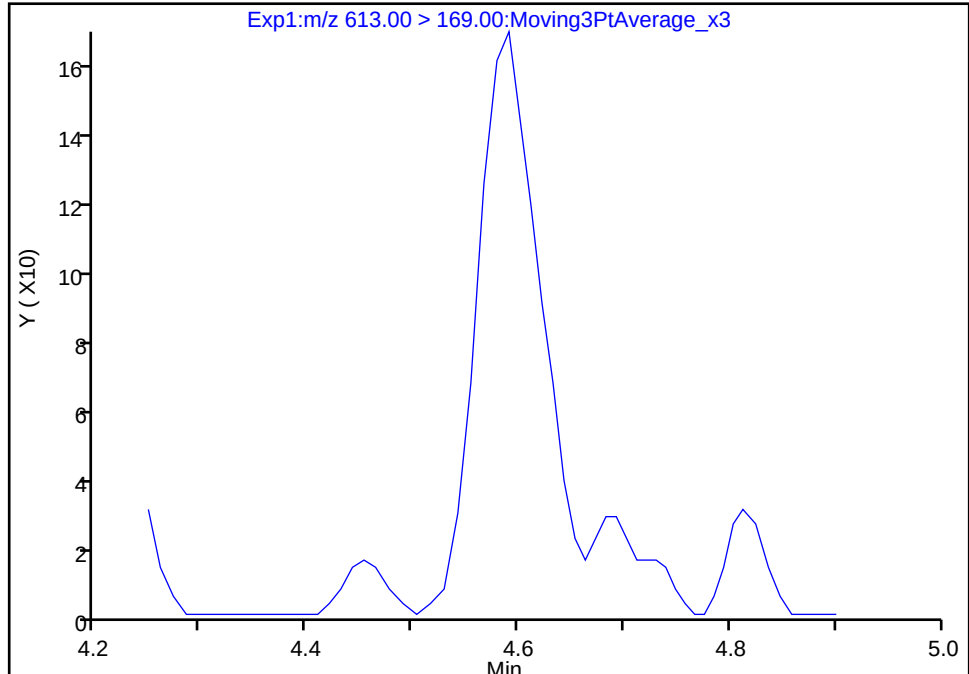
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

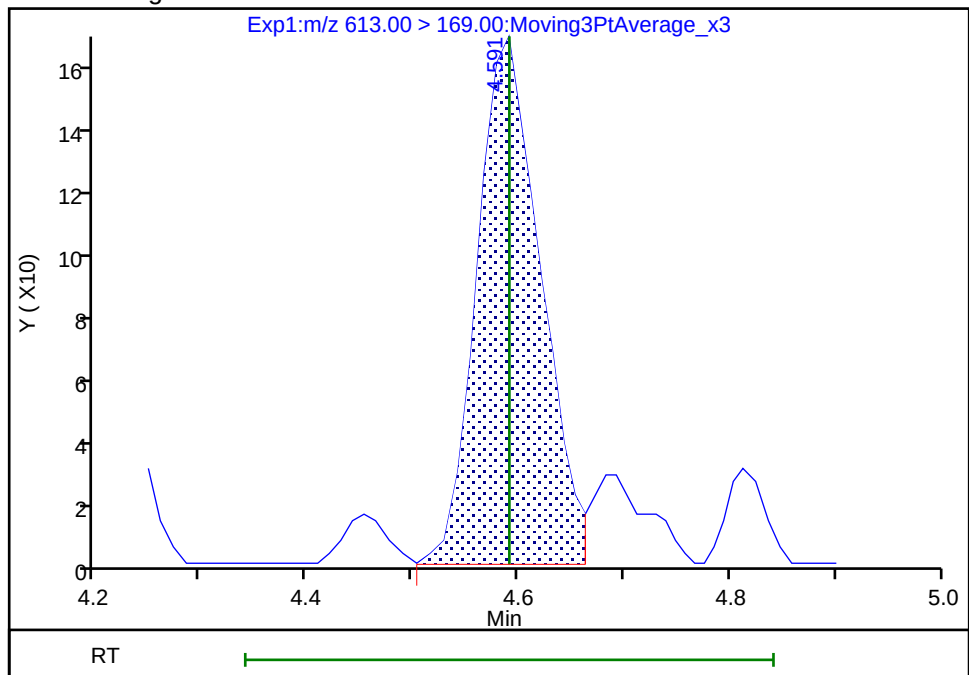
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 668
Amount: 0.001456
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:54:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

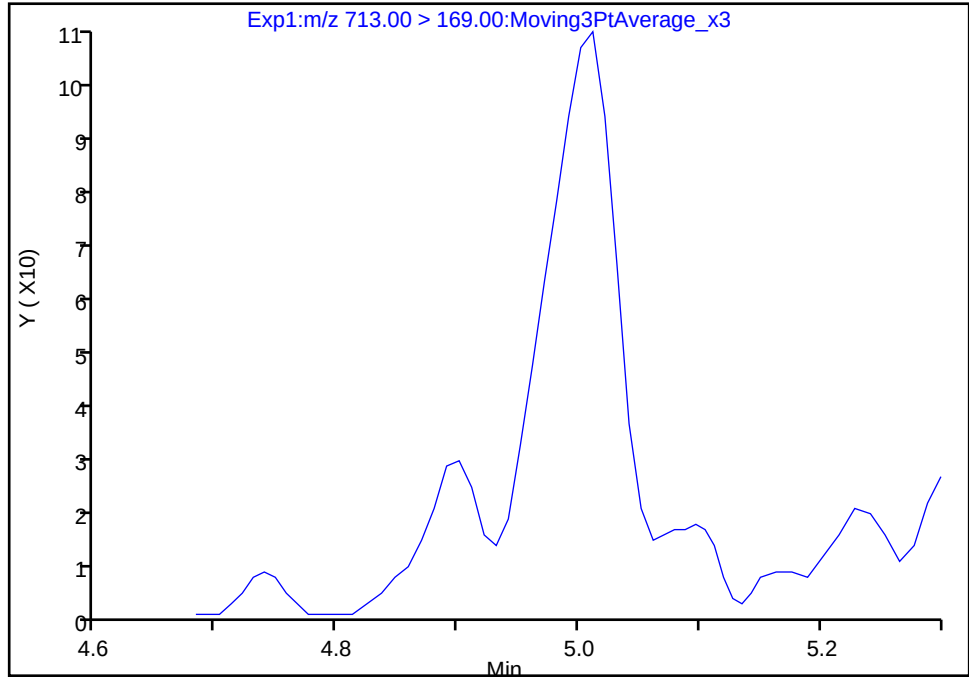
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

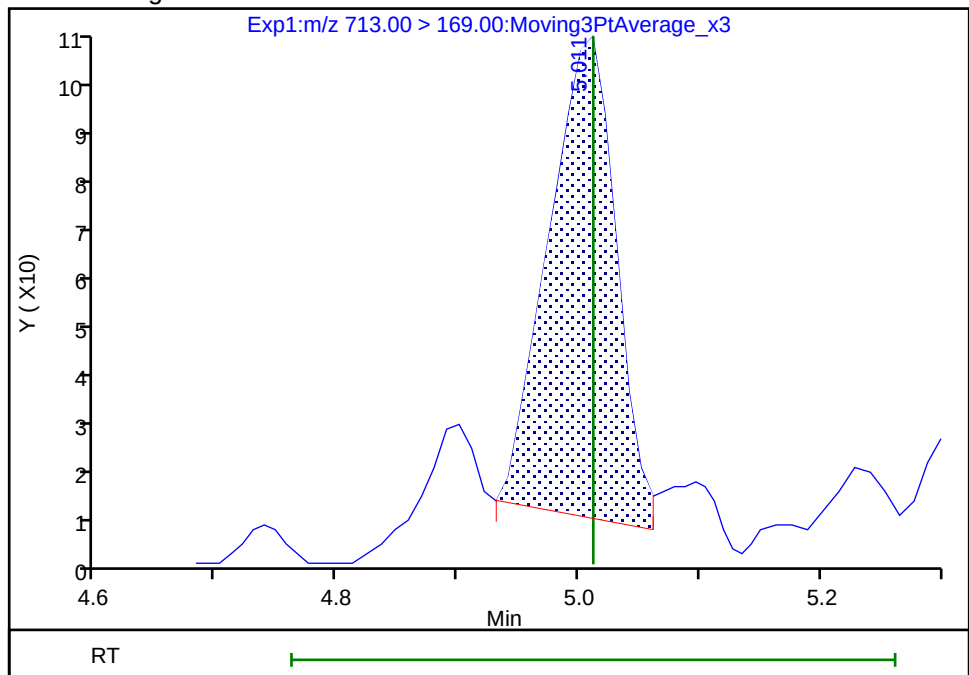
Not Detected
Expected RT: 5.01

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 388
Amount: 0.001860
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:55:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

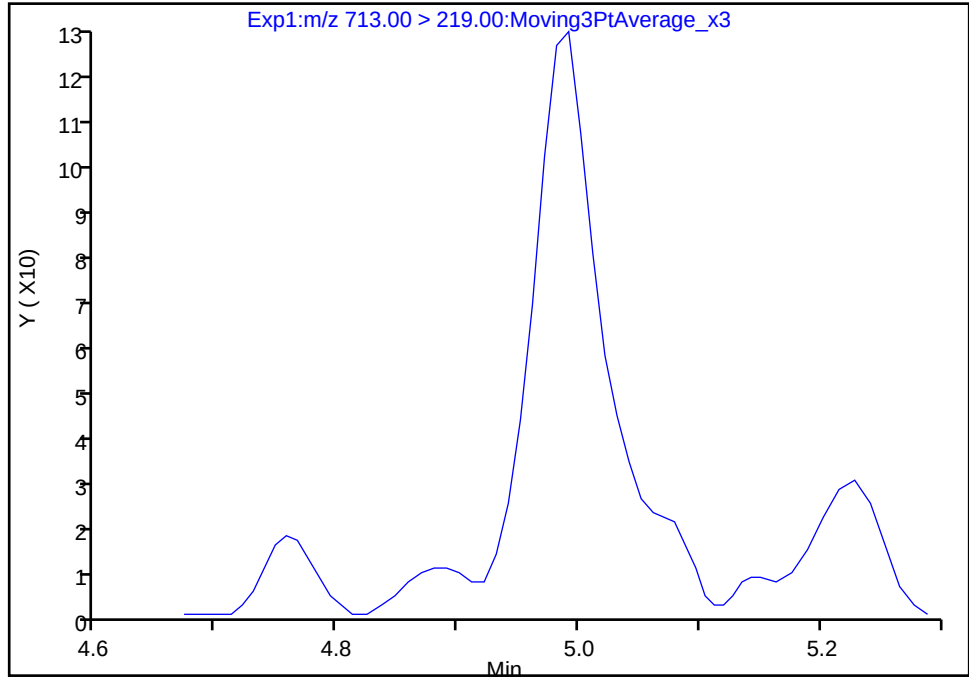
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

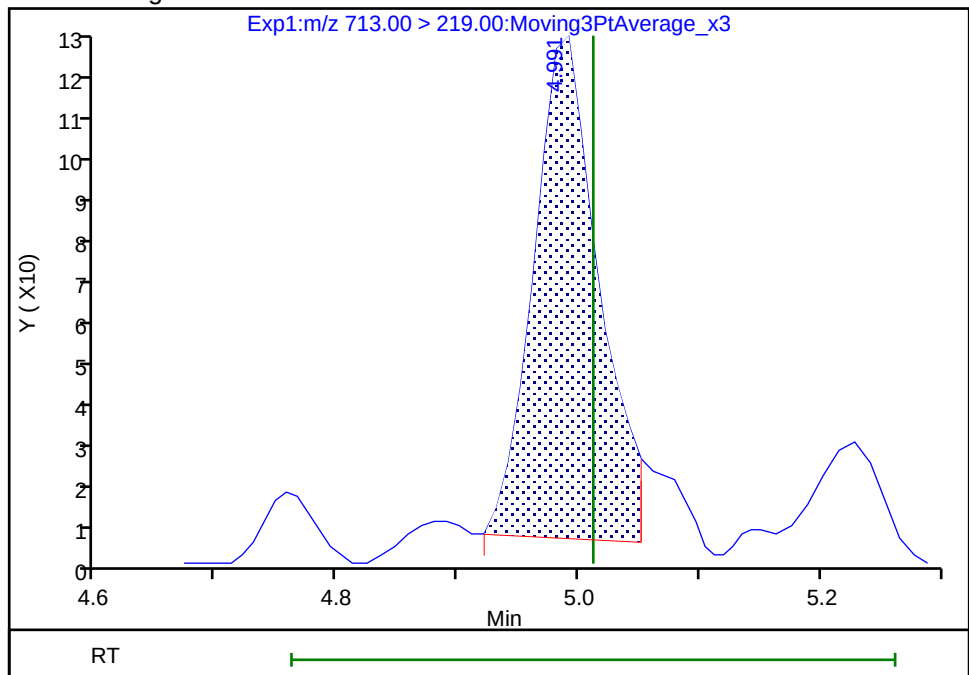
Not Detected
Expected RT: 5.01

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 447
Amount: 0.001860
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:55:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

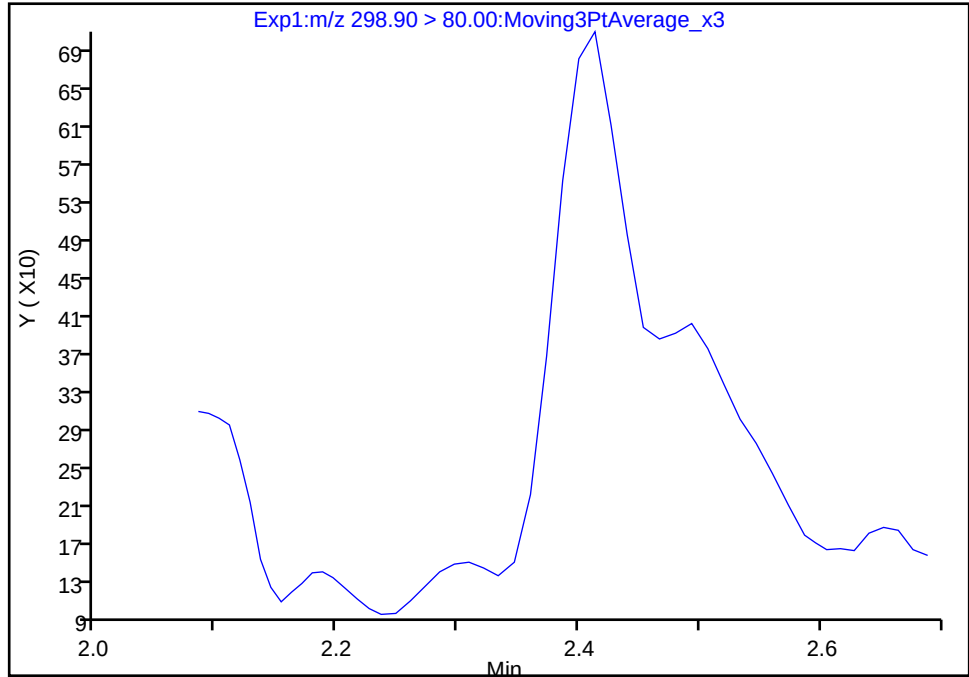
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

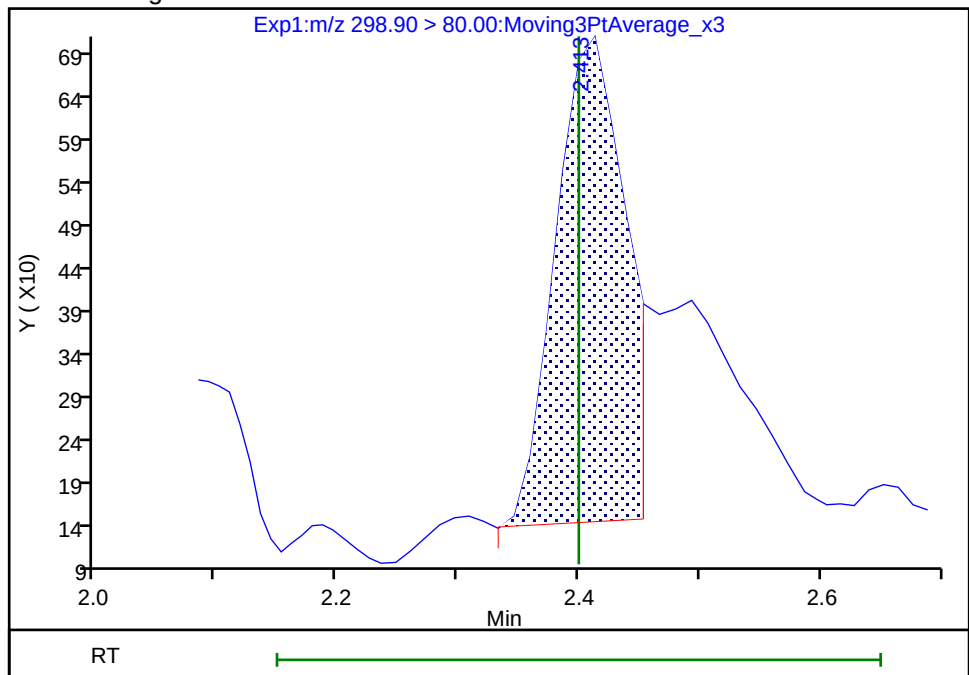
Not Detected
Expected RT: 2.40

Processing Integration Results



RT: 2.41
Area: 2183
Amount: 0.001044
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:50:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

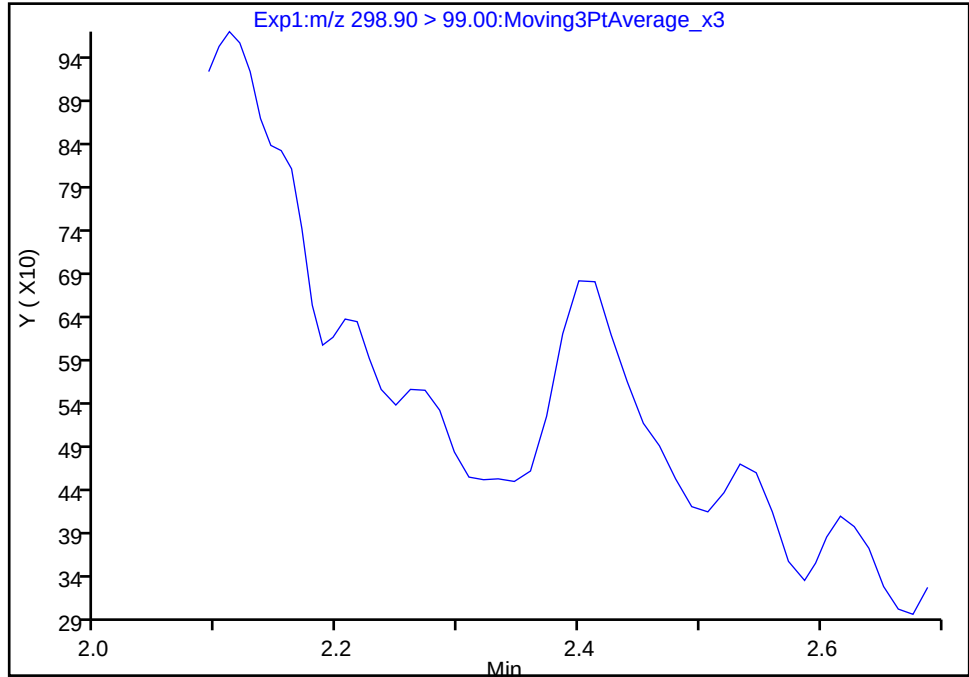
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

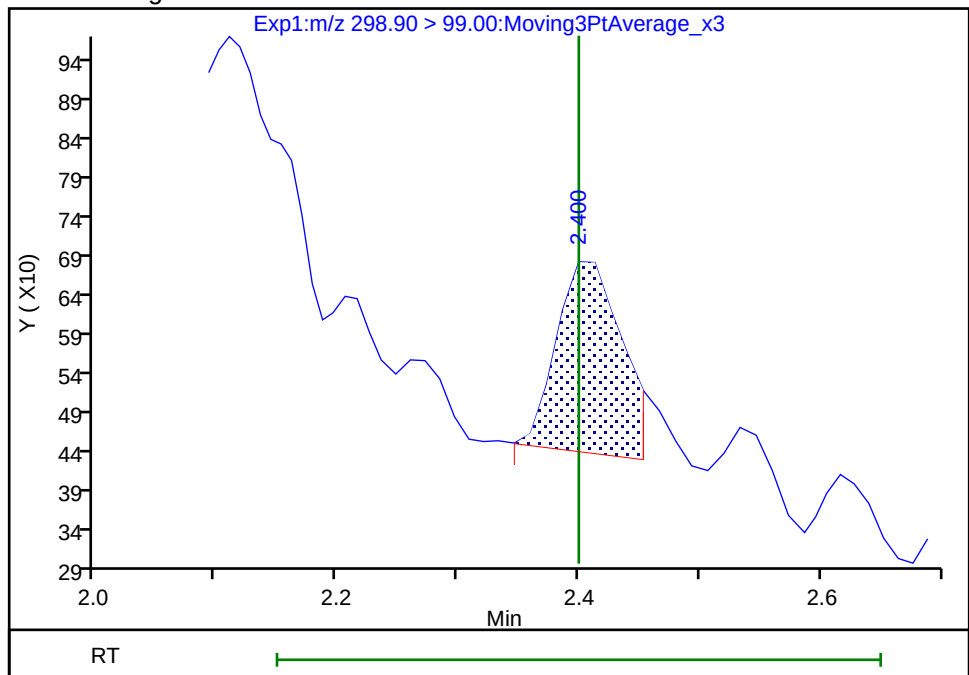
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 897
Amount: 0.001044
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:51:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

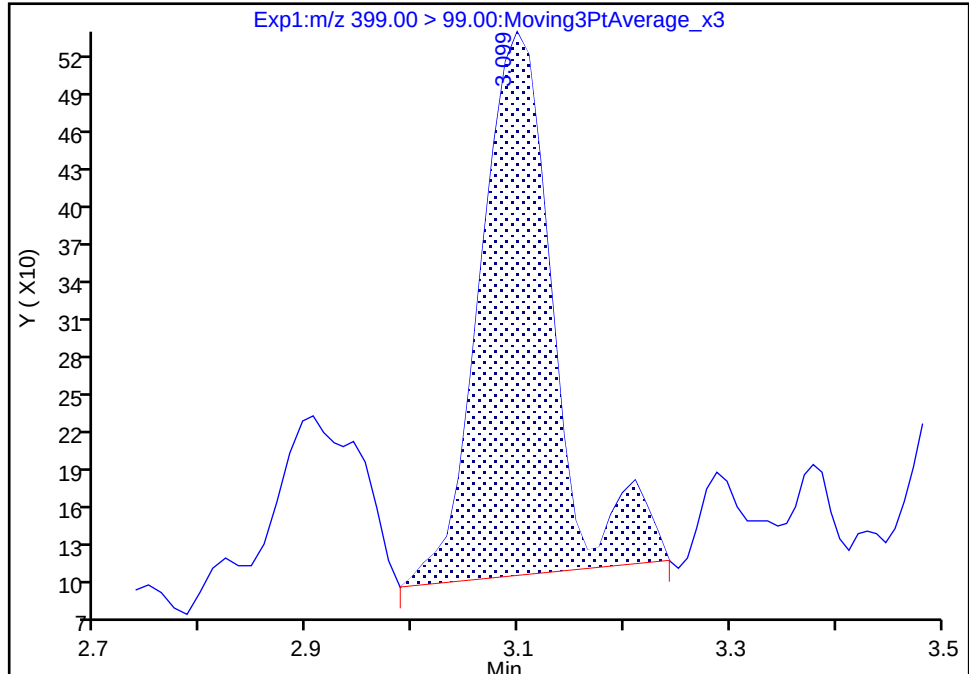
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

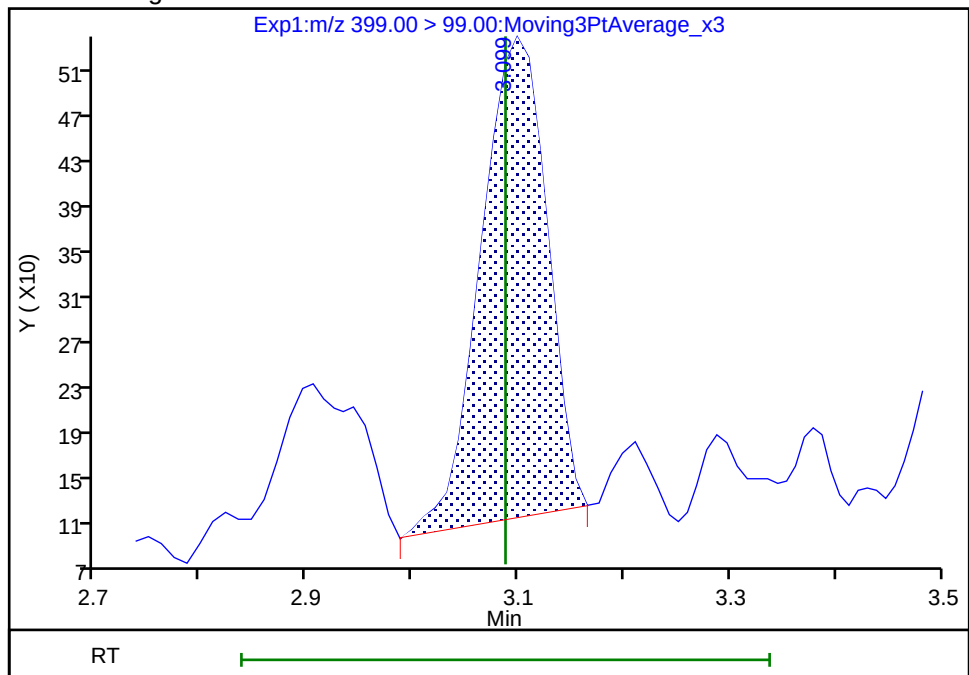
RT: 3.10
Area: 2059
Amount: 0.004832
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1811
Amount: 0.003762
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:51:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

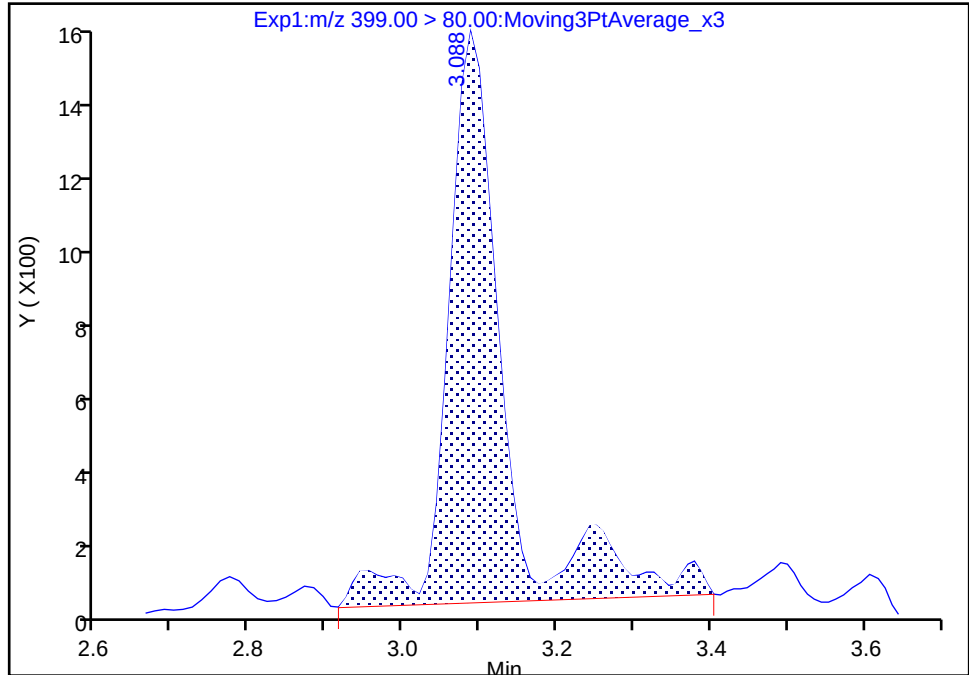
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

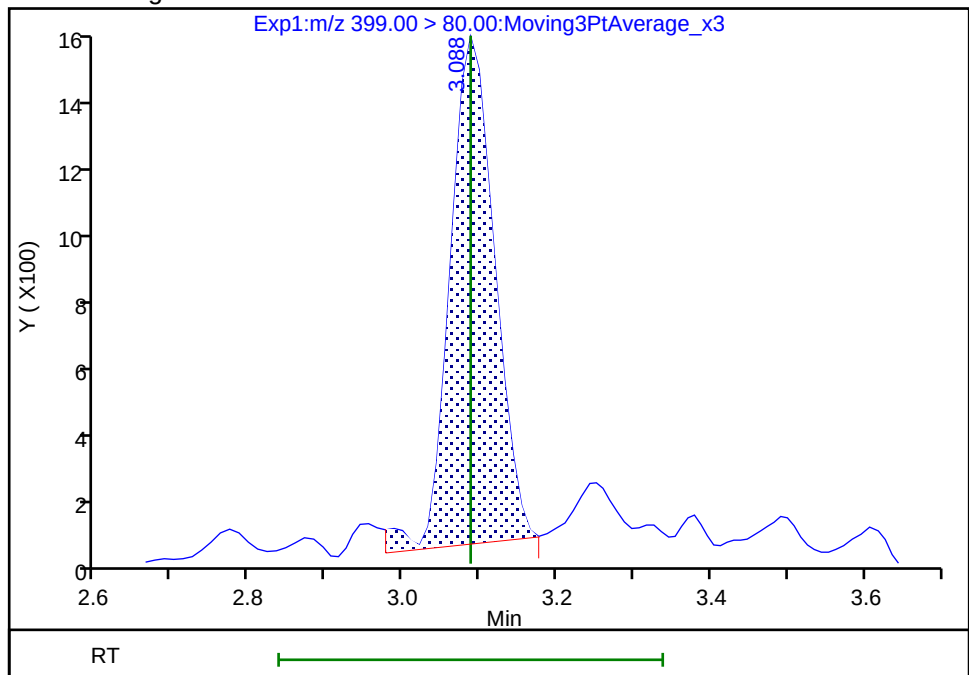
RT: 3.09
Area: 7621
Amount: 0.004832
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 5933
Amount: 0.003762
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:51:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

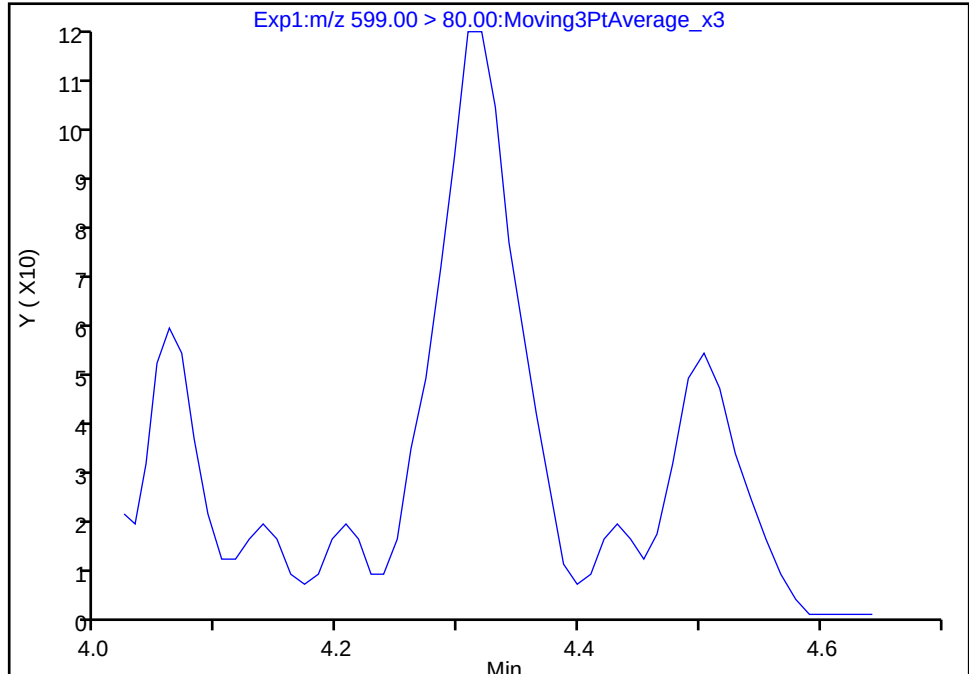
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

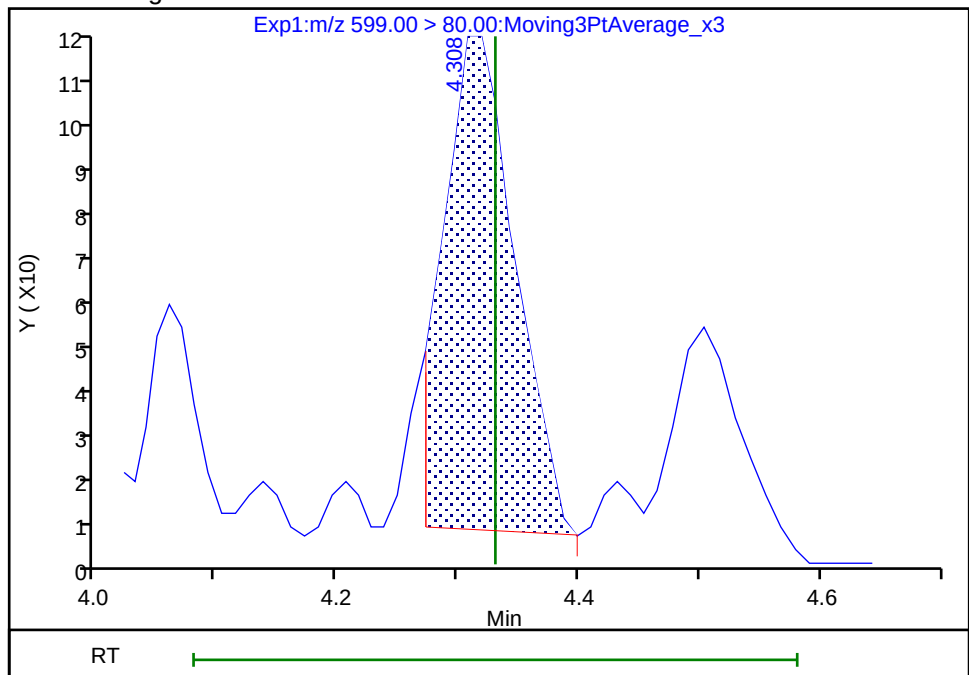
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 442
Amount: 0.000685
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:54:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

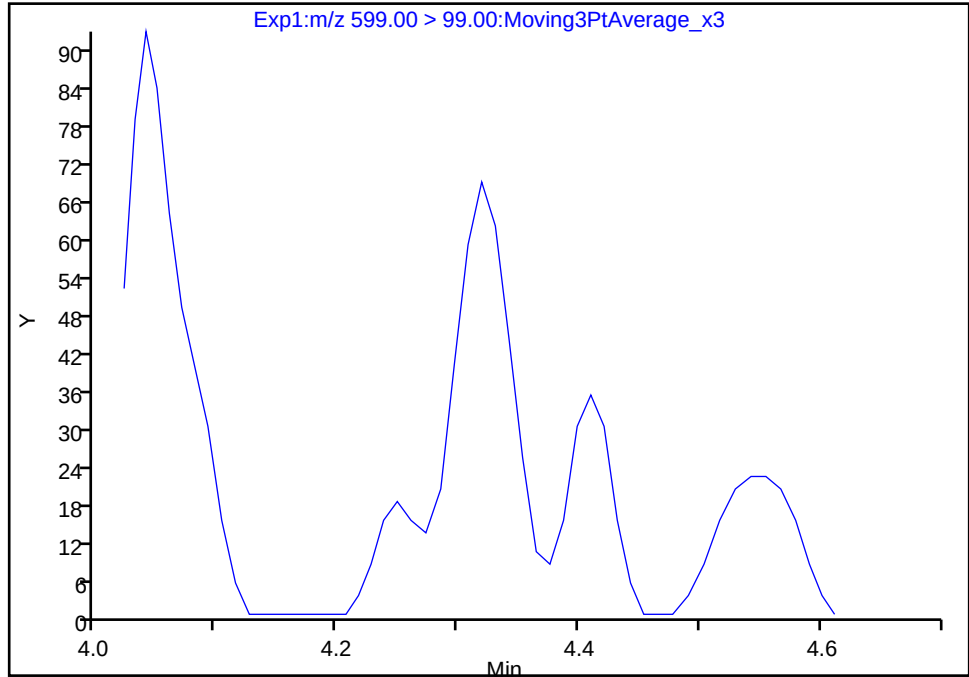
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

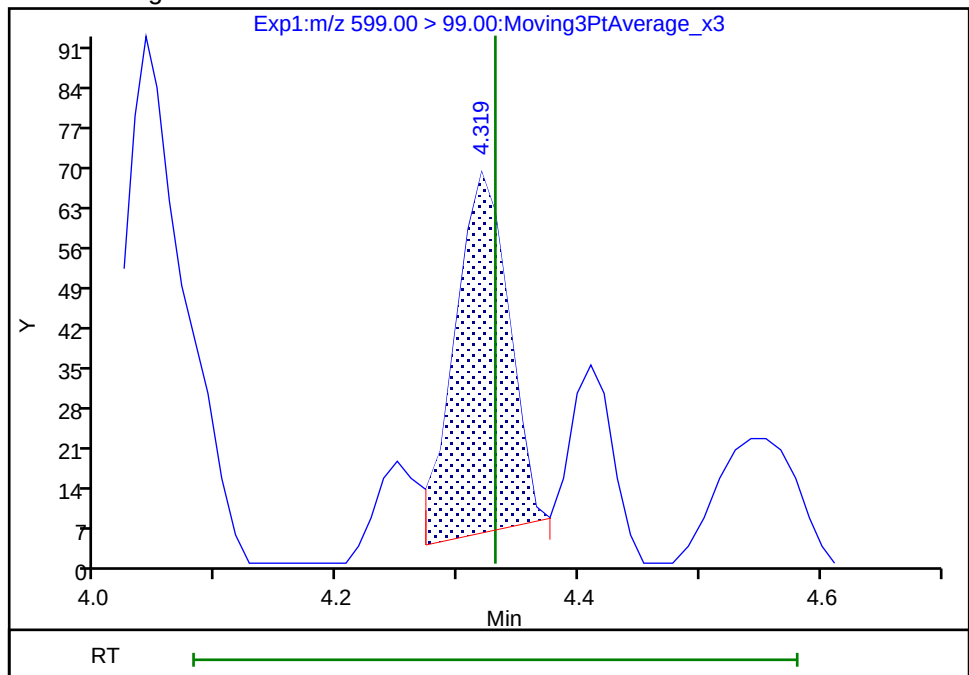
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 197
Amount: 0.000685
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 12:54:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

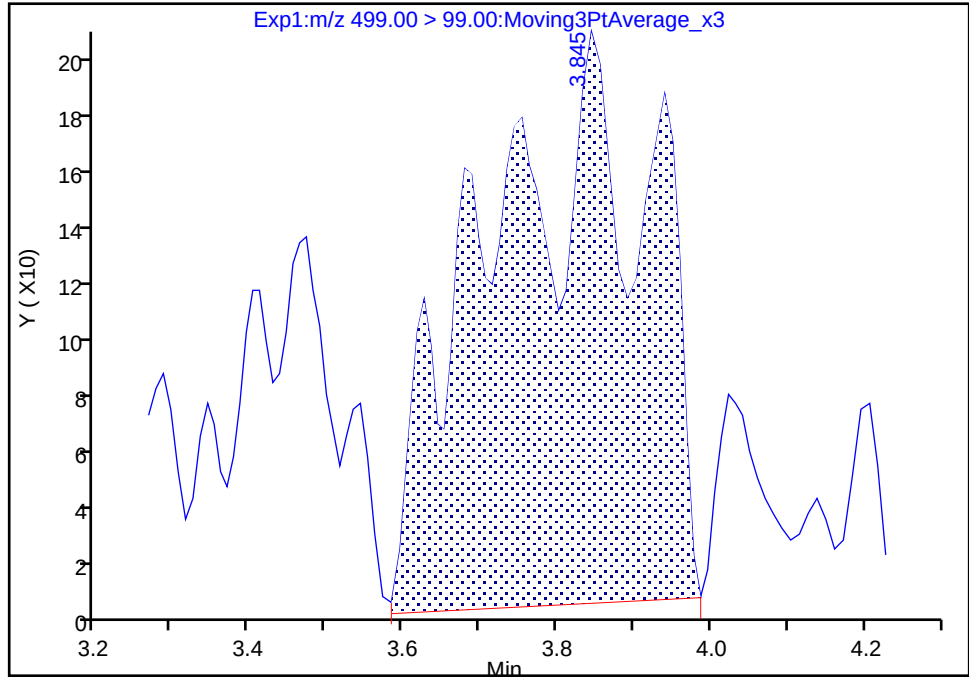
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

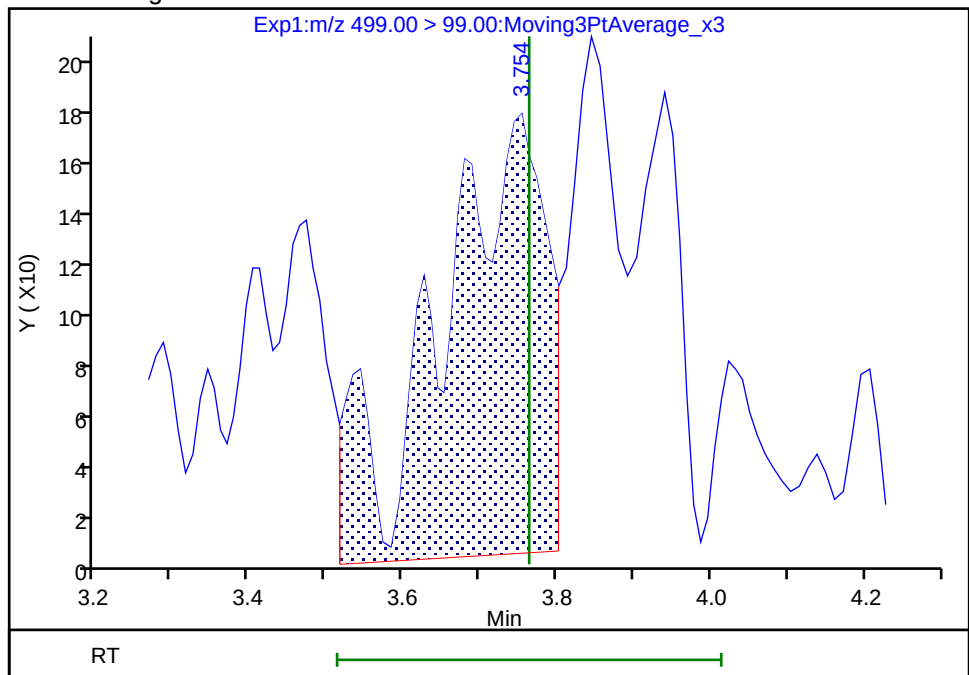
RT: 3.84
Area: 2818
Amount: 0.012271
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1600
Amount: 0.003563
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:53:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d

Injection Date: 05-Jan-2023 16:11:10

Instrument ID: LC812

Lims ID: MB 200-187189/1-A

Client ID:

Operator ID: lc812tech

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

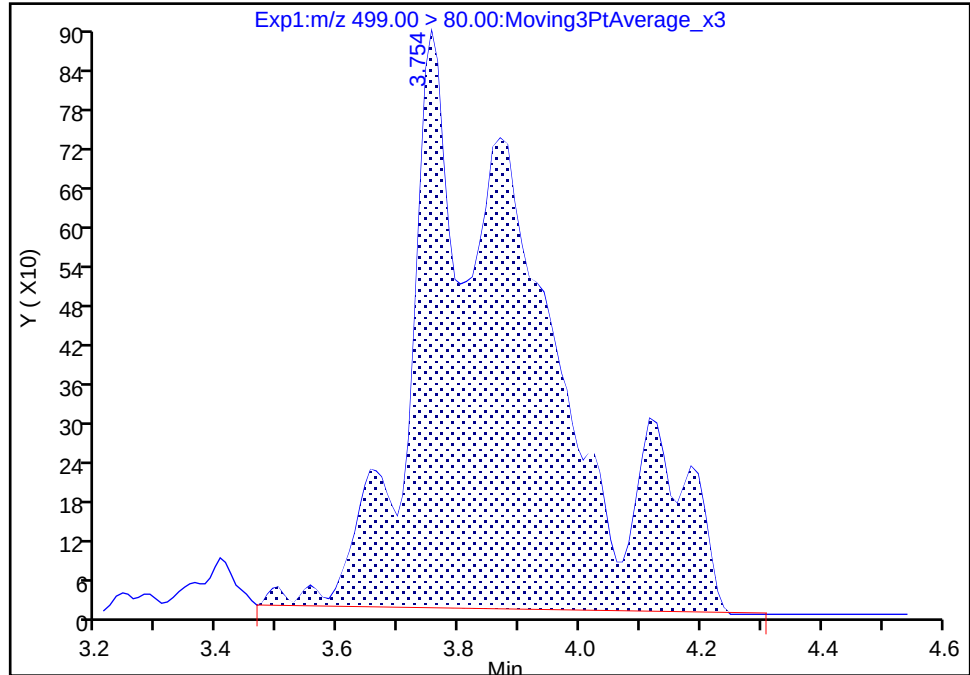
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

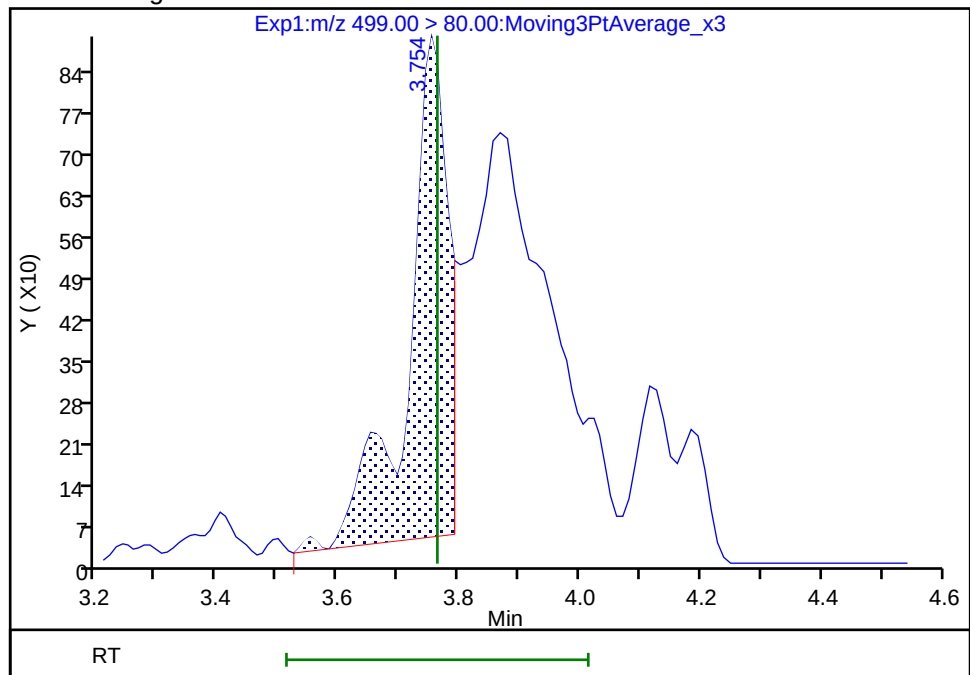
RT: 3.75
Area: 13292
Amount: 0.012271
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 3860
Amount: 0.003563
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:53:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 927 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

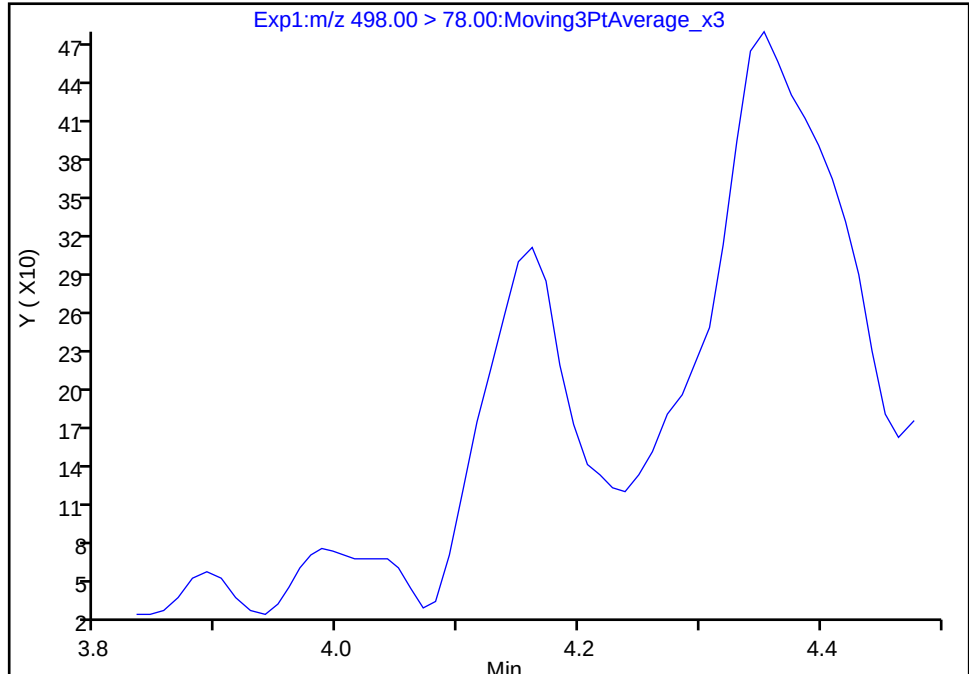
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

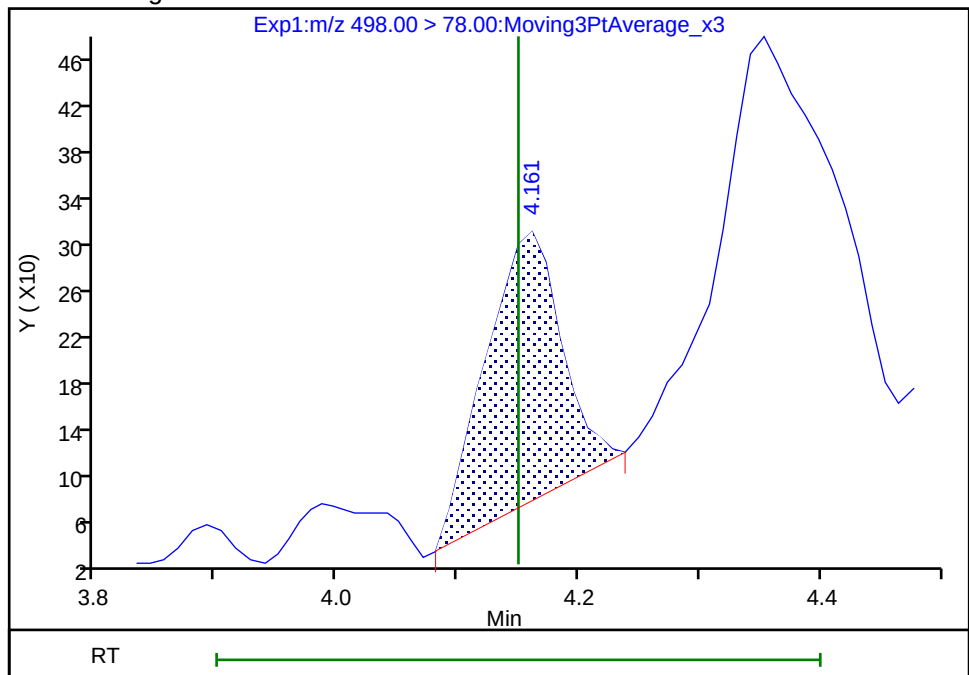
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:53:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

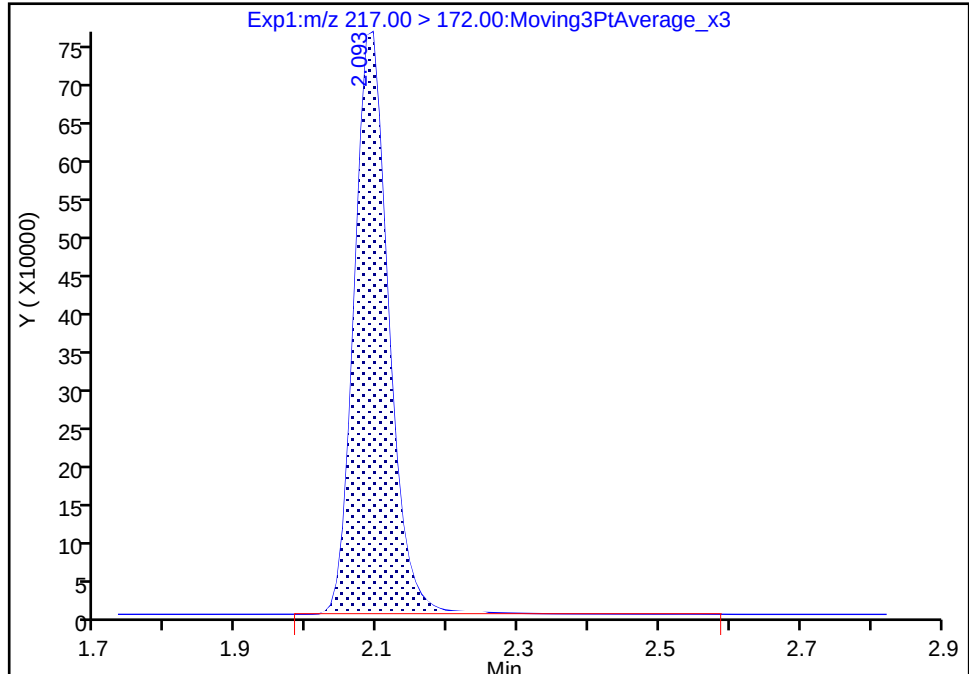
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

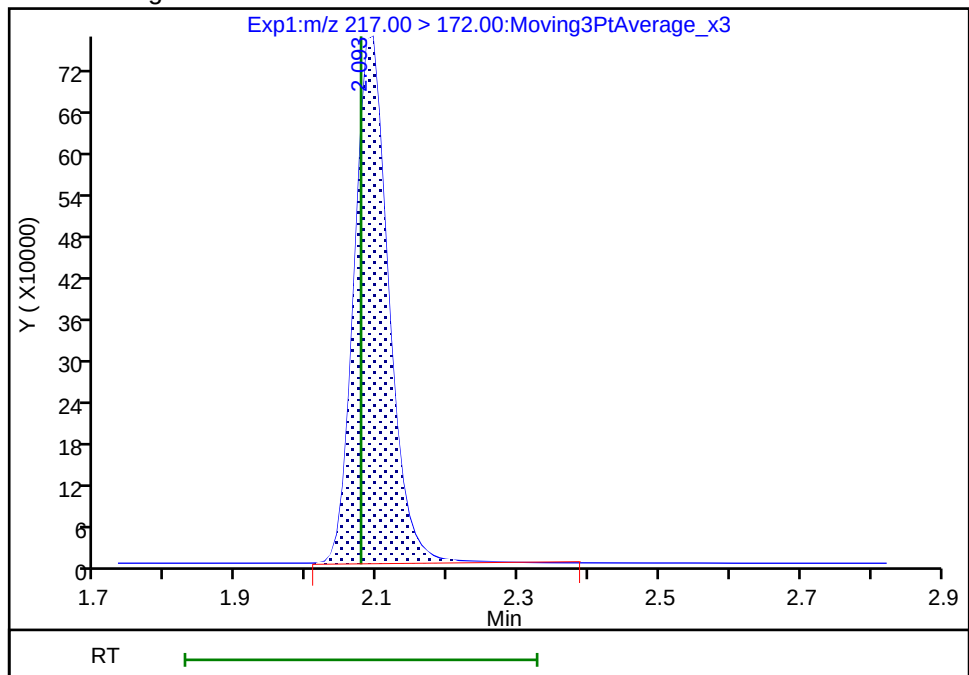
RT: 2.09
Area: 2610043
Amount: 0.931619
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2600965
Amount: 0.928378
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:49:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

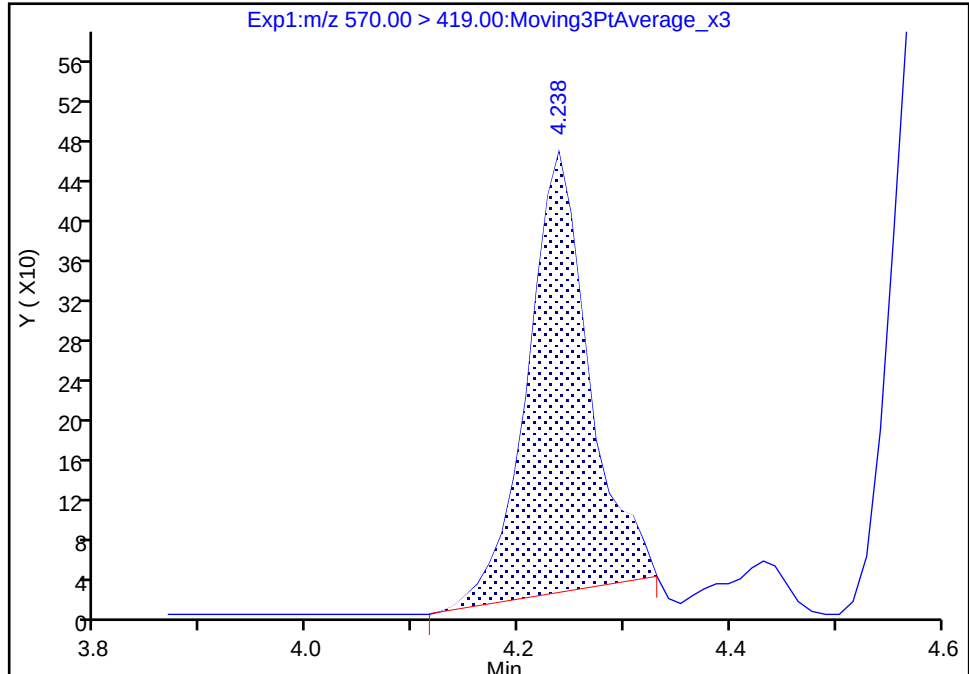
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

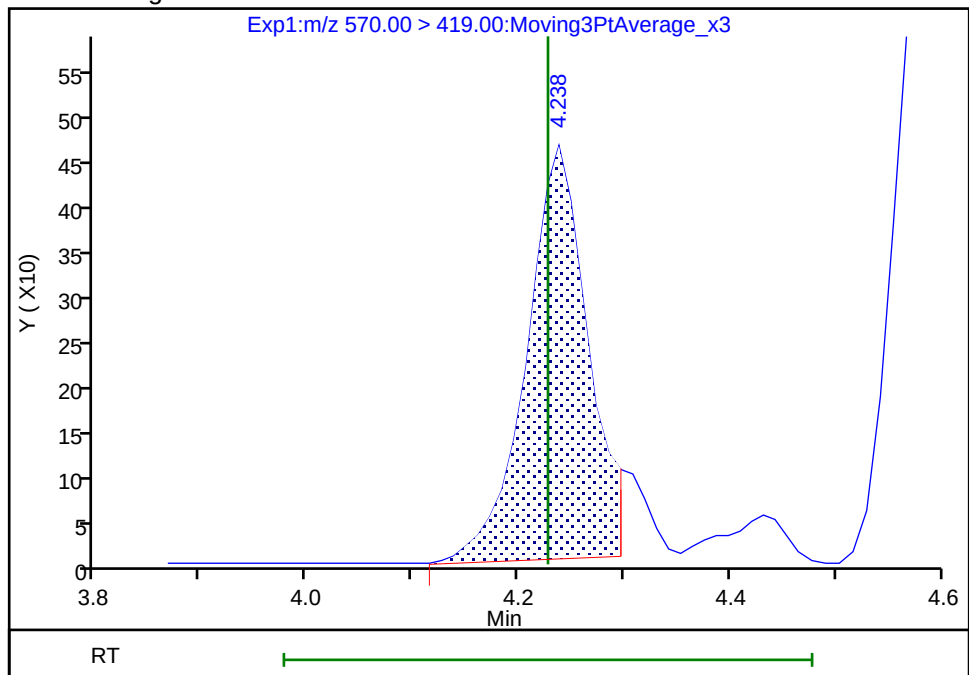
RT: 4.24
Area: 1804
Amount: -0.006654
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 1847
Amount: -0.006535
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:53:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

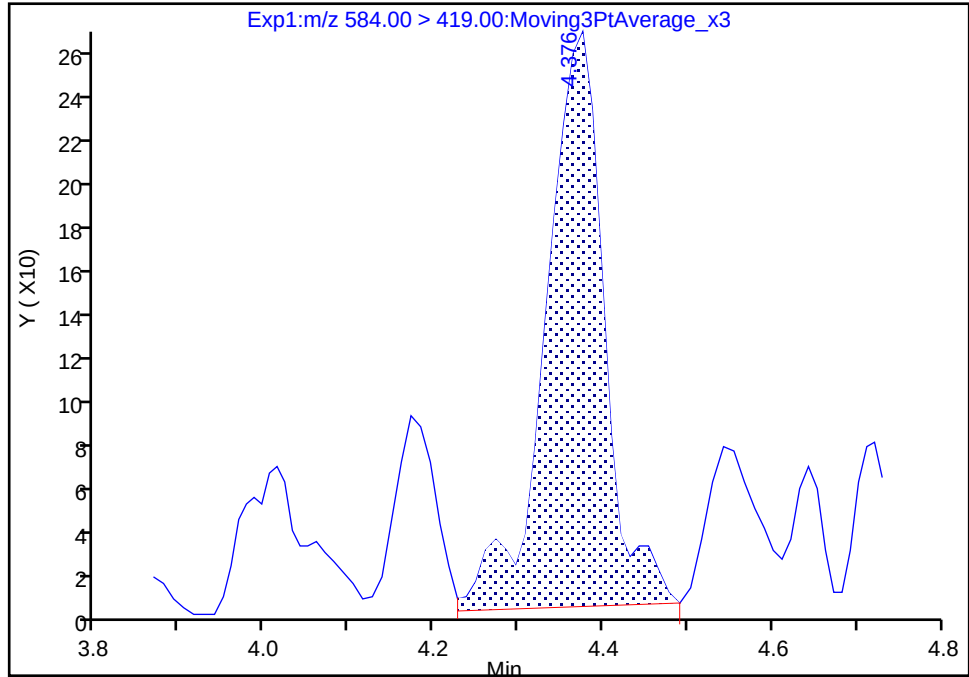
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d
Injection Date: 05-Jan-2023 16:11:10 Instrument ID: LC812
Lims ID: MB 200-187189/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

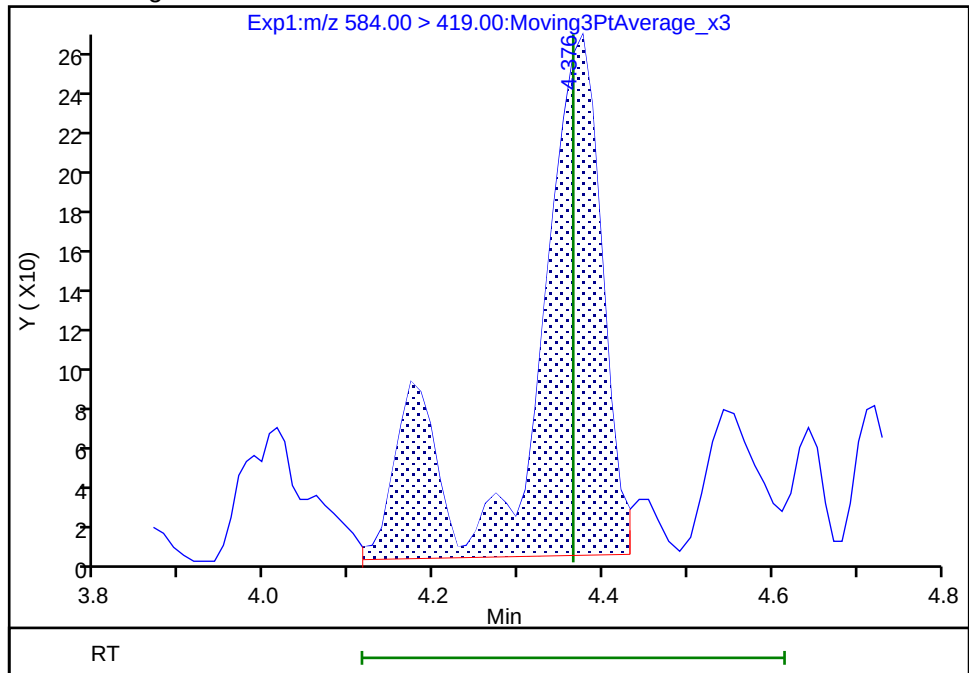
RT: 4.38
Area: 1253
Amount: 0.003356
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 1493
Amount: 0.003999
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:54:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A11.d		
Injection Date:	05-Jan-2023 16:11:10	Instrument ID:	LC812
Lims ID:	MB 200-187189/1-A		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	8 Workli
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

ALS Bottle#:	8	Worklist Smp#:	11
Dil. Factor:	1.0000		
Limit Group:	LC_PFC_ICAL		
Detector	EXP1		

Signal: 1

Not Detected
Expected RT: 4.09

Exp1:m/z 527.00 > 507.00:Moving3PtAverage_x3

Time (Min)	Y (X10)
3.75	0.5
3.82	2.2
3.85	0.5
3.95	0.2
4.00	1.0
4.05	10.0
4.08	21.0
4.10	10.0
4.15	1.5
4.20	3.5
4.25	2.5
4.28	6.5
4.30	6.0
4.35	2.5
4.40	4.0
4.45	3.5

RT: 4.08
Area: 749
Amount: 0.001531
Amount Units: ng/ml

Exp1:m/z 527.00 > 507.00:Moving3PtAverage_x3

Y (X10)

RT

Min

4.081

Reviewer: nampitakw, 06-Jan-2023 12:53:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-187194/1-A

Matrix: Water Lab File ID: PA230104A08.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 01/03/2023 10:54

Sample wt/vol: 250 (mL) Date Analyzed: 01/04/2023 15:42

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.: 187252 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.00	U	5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.00	U	2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.00	U	2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.00	U	2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	U	5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	U	5.00	1.60
27619-97-2	6:2 FTS	5.00	U	5.00	1.30
39108-34-4	8:2 FTS	2.00	U	2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187194/1-A
 Matrix: Water Lab File ID: PA230104A08.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/03/2023 10:54
 Sample wt/vol: 250 (mL) Date Analyzed: 01/04/2023 15:42
 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.: 187252 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	94		50-150
STL00990	13C4 PFOA	93		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	88		50-150
STL00993	13C2 PFHxA	89		50-150
STL00996	13C2 PFDA	99		50-150
STL00997	13C2 PFUnA	75		50-150
STL00994	18O2 PFHxS	91		50-150
STL00998	13C2 PFDoA	60		50-150
STL00991	13C4 PFOS	94		50-150
STL01056	13C8 FOSA	58		50-150
STL01893	13C5 PFPeA	82		50-150
STL02116	13C2 PFTeDA	62		50-150
STL02118	d3-NMeFOSAA	75		50-150
STL02117	d5-NEtFOSAA	64		50-150
STL02279	M2-6:2 FTS	110		50-150
STL02337	13C3 PFBS	86		50-150
STL02280	M2-8:2 FTS	97		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
 Lims ID: MB 200-187194/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Jan-2023 15:42:42 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-187194/1-A
 Misc. Info.: 200-0053892-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 08:37:21 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: nampitakw

Date: 05-Jan-2023 16:42:57

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										M
217.00 > 172.00	2.076	2.076	0.0	0.604	2806319	1.10		87.6	7122	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.008	23002	0.0099			2.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.387	-0.014	0.690	2007369	1.03		82.3	1990	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.387	-0.014	1.000	4014	0.002294			0.1	M
D 47 13C3 PFBS										
301.90 > 80.00	2.386	2.400	-0.014	0.694	2108940	0.99		85.6	145627	
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.400	2.400	0.0	1.006	3330	0.001604	Target=2.09		2.6	RM
298.90 > 99.00	2.400	2.400	0.0	1.006	846		3.94(1.04-3.13)		0.4	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.701	2.689	0.012	1.005	358	0.000732			2.7	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.782	185253	0.9891		84.7	157	
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.789	2279573	1.12		89.2	4392	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	1781	0.000896	Target=14.25		0.3	M
313.00 > 119.00	2.713	2.725	-0.012	1.000	202		8.82(7.12-21.37)		0.6	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.822	2.835	-0.013	0.821	411604	1.14		91.3	2771	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.898	1655349	1.07		90.7	3102	

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	3.087	3.088	-0.001	1.000	5887	0.003726	Target=3.66	13.2		
399.00 > 99.00	3.076	3.088	-0.012	0.996	1304		4.51(1.83-5.49)	1.5		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.898	2469688	1.17		94.0	4039	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.087	3.099	-0.012	1.000	1791	0.000833	Target=3.97	0.3		RM
363.00 > 169.00	3.087	3.099	-0.012	1.000	1100		1.63(1.98-5.95)	2.0		
77 DONA										RM
377.00 > 251.00	3.121	3.132	-0.011	0.831	4126	0.000760	Target=3.16	3.6		RM
377.00 > 85.00	3.132	3.132	0.0	0.834	414		9.97(1.58-4.73)	0.9		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.997	338571	1.31		110	756	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.000	1524	-0.009342		2.2		
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.448	-0.009	1.000	2759194	1.17		93.4	4460	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.448	-0.009		2854572	1.25		6122		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.447	3.448	-0.001	1.003	2931	0.001242	Target=2.79	0.2		M
413.00 > 169.00	3.447	3.448	-0.001	1.003	732		4.00(1.40-4.19)	0.9		M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.092	1178469	1.12		94.1	5920	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.754	3.764	-0.010	1.000	3505	0.002922	Target=5.11	4.8		RM
499.00 > 99.00	3.544	3.764	-0.220	0.944	15572		0.23(2.55-7.66)	1.8		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.097	2818244	1.23		98.2	3839	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.915	3.928	-0.013	1.043	936	0.000340		5.6		M
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	2888914	1.23		98.7	5687	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.071	4.081	-0.010	1.000	2247	0.000897	Target=10.26	0.9		RM
513.00 > 169.00	4.071	4.081	-0.010	1.000	752		2.99(5.13-15.38)	3.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	366428	1.16		96.6	944	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.081	4.093	-0.012	1.000	365	0.000738		4.0		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.150	0.0	1.003	772	0.000661		2.8		M
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.203	1397352	0.7282		58.3	2956	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.217	4.228	-0.011	1.226	447662	0.9393		75.1	1299	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.207	4.228	-0.021	0.998	1176	-0.007810			3.0	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	2016887	0.9410		75.3	4564	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.342	4.353	-0.011	1.000	1488	0.000915	Target=9.88		1.1	M
563.00 > 169.00	4.353	4.353	0.0	1.003	157		9.48(4.94-14.82)		2.6	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.353	4.365	-0.012	1.000	1928	0.007178			8.8	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.266	375051	0.7992		63.9	936	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.183	1220	0.000288			7.9	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.580	4.591	-0.011	1.000	3623	0.002616	Target=7.77		0.4	M
613.00 > 169.00	4.567	4.591	-0.024	0.997	439		8.25(3.89-11.66)		5.4	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	1634014	0.7483		59.9	3615	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.601	4.612	-0.011	1.128	342	0.001150			10.7	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.982	5.012	-0.030	1.000	507	0.003161	Target=0.89		7.5	M
713.00 > 219.00	4.982	5.012	-0.030	1.000	587		0.86(0.44-1.33)		9.6	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.982	5.012	-0.030	1.449	1464336	0.7753		62.0	3928	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.344	5.367	-0.023	1.000	20623	-0.003793	Target=5.65		2.6	M
813.00 > 169.00	5.333	5.367	-0.034	0.998	3268		6.31(2.82-8.47)		31.3	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.554	2110083	0.9037		72.3	2196	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d

Injection Date: 04-Jan-2023 15:42:42

Instrument ID: LC812

Lims ID: MB 200-187194/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

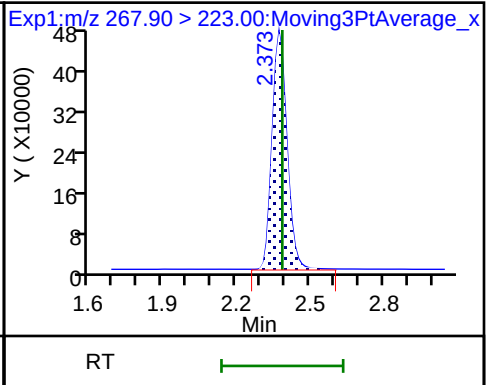
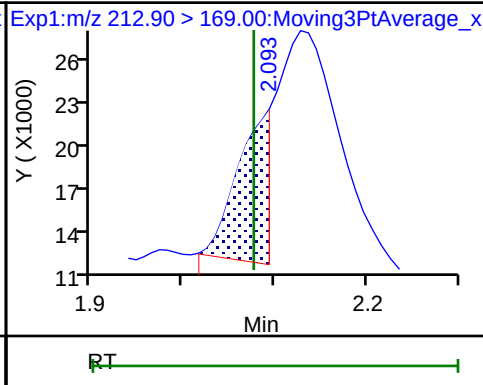
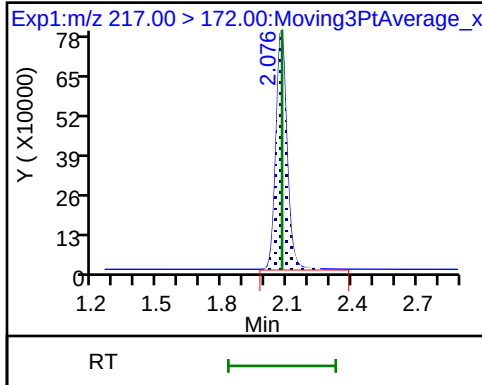
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

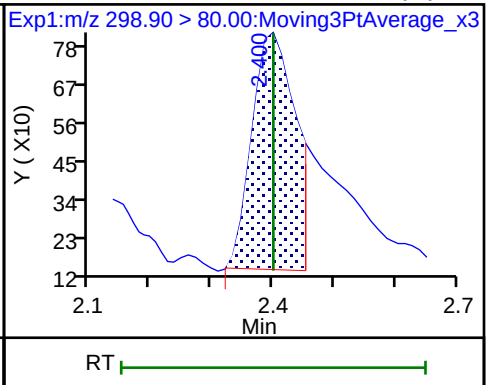
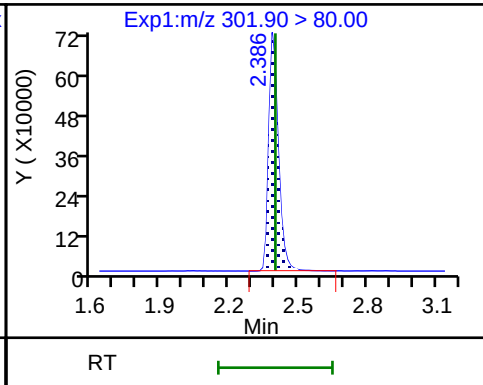
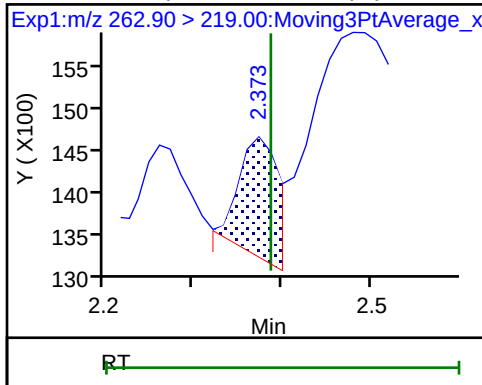
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

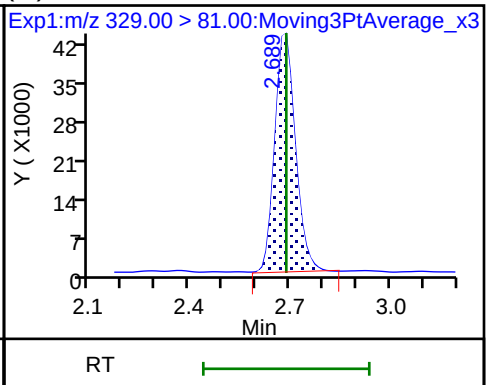
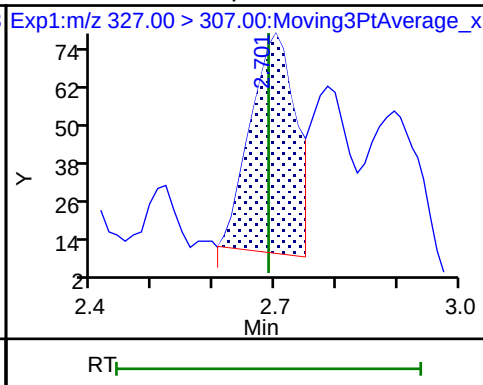
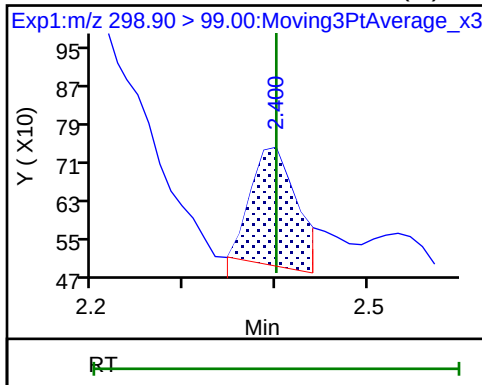
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonate (M)

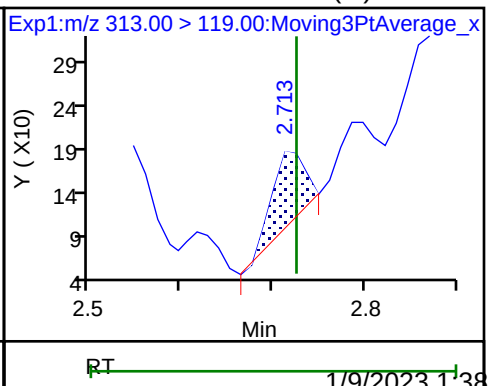
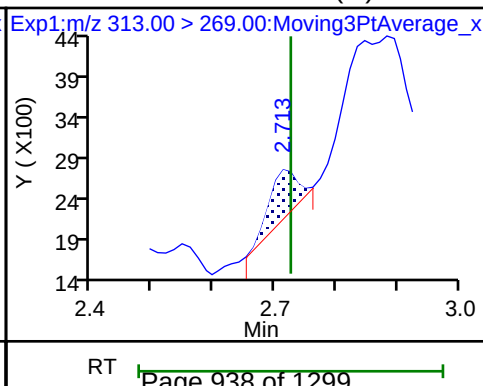
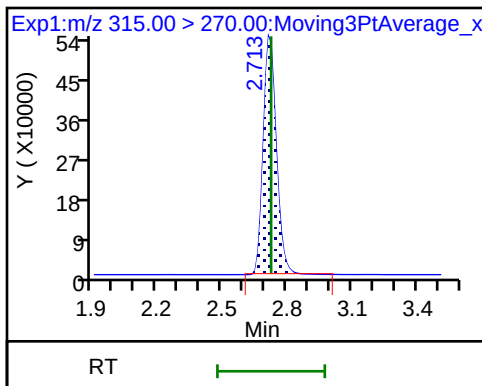
D 50 M2-4:2 FTS



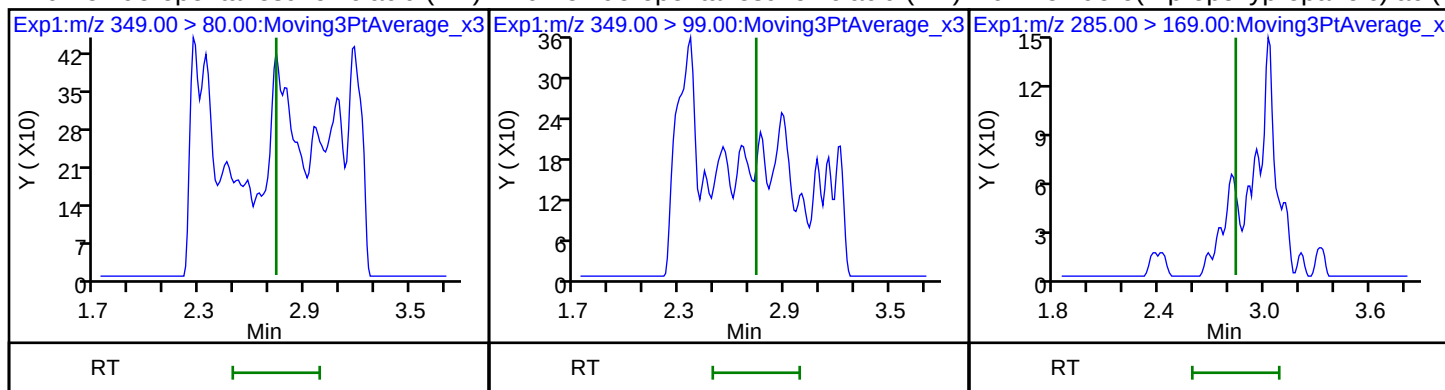
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)



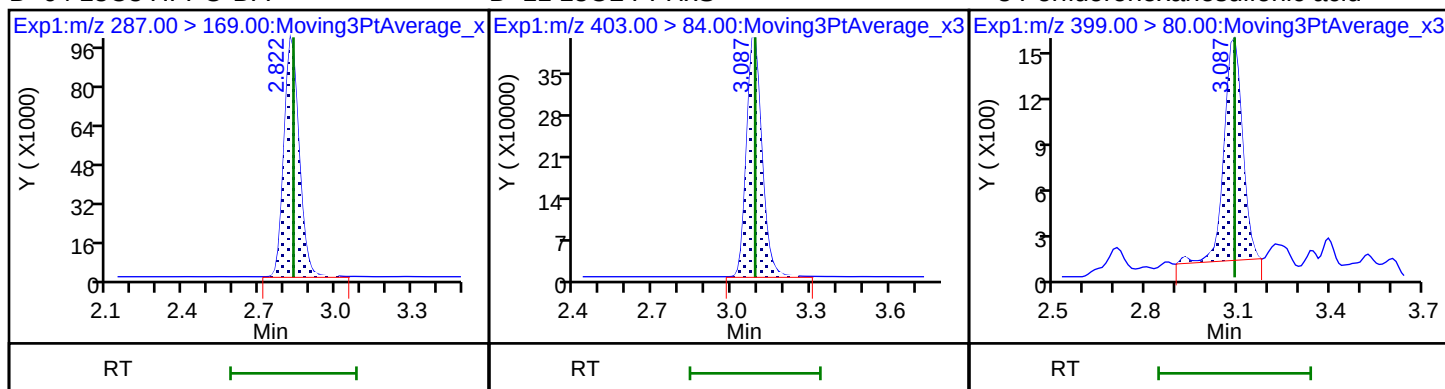
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (ND)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

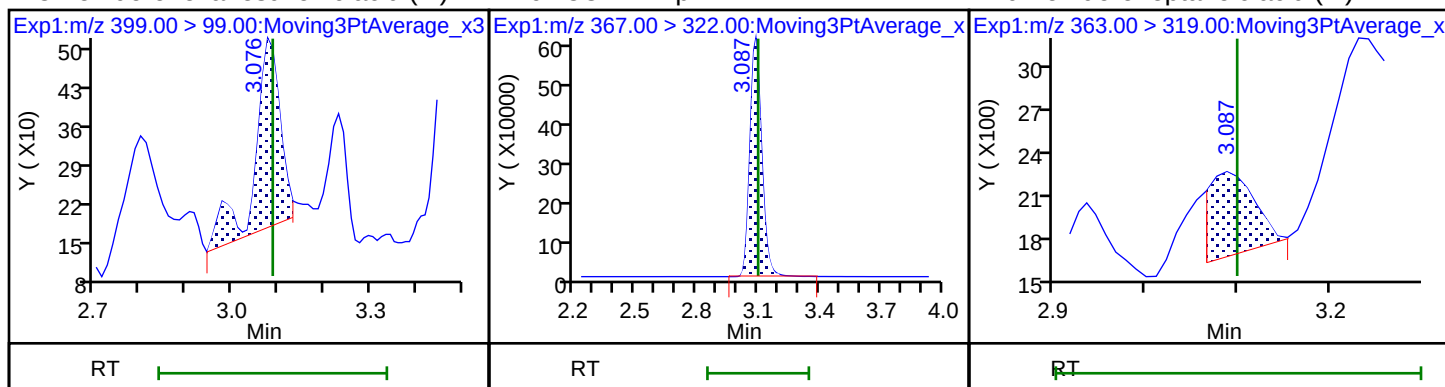
8 Perfluorohexanesulfonic acid



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

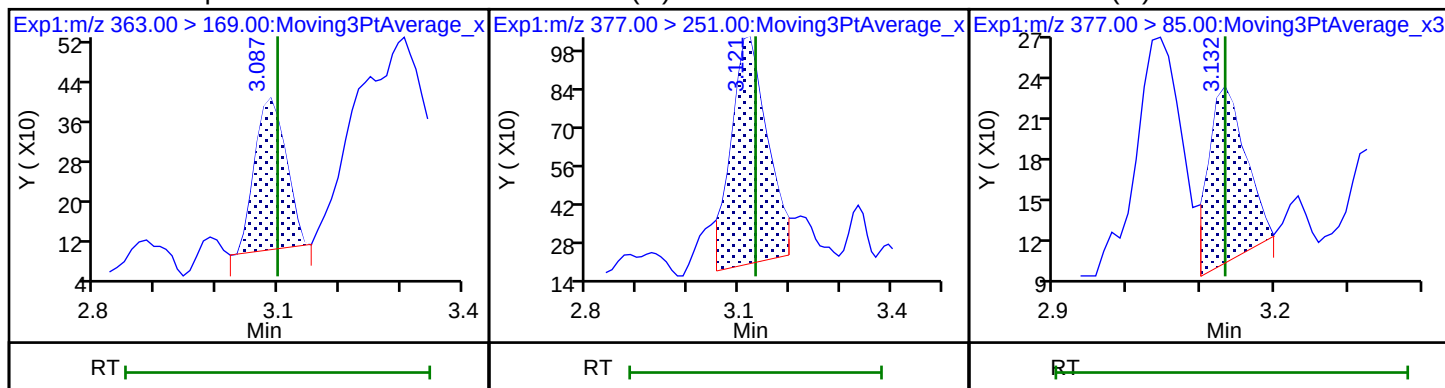
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid

77 DONA (M)

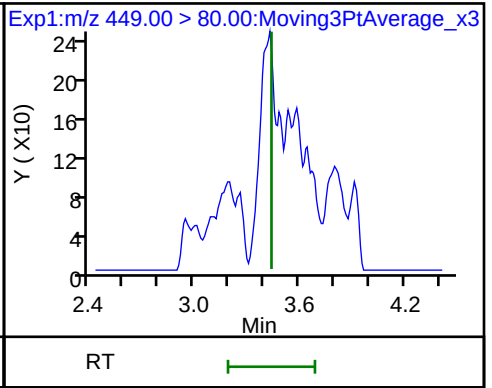
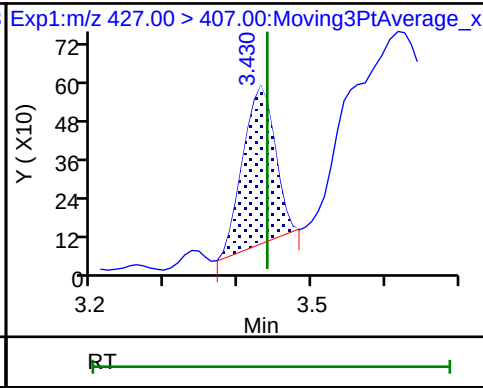
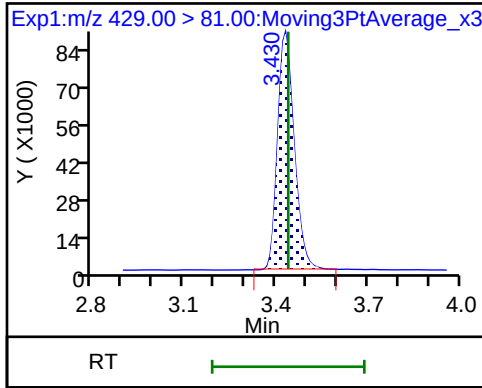
77 DONA (M)



D 12 M2-6:2 FTS

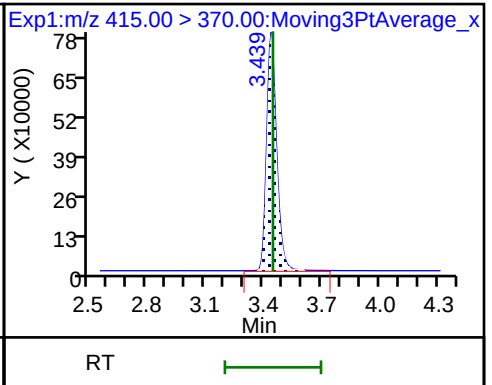
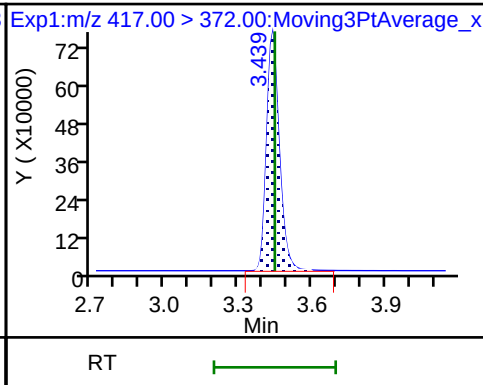
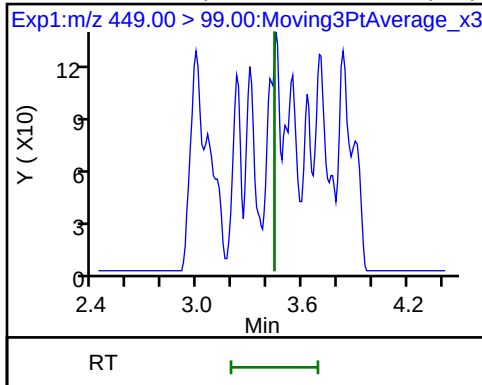
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

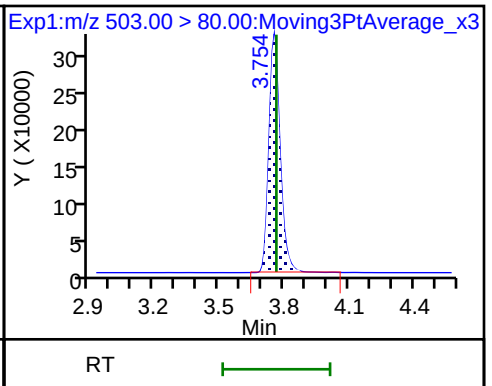
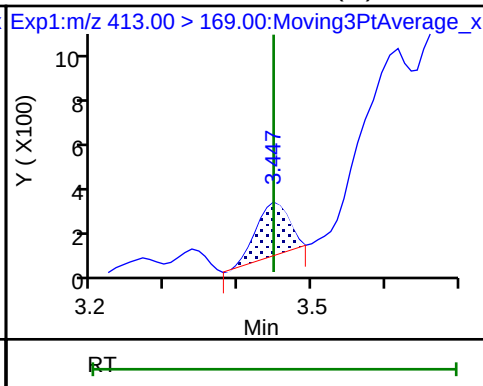
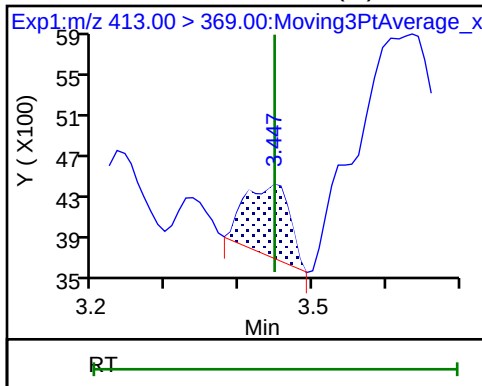
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

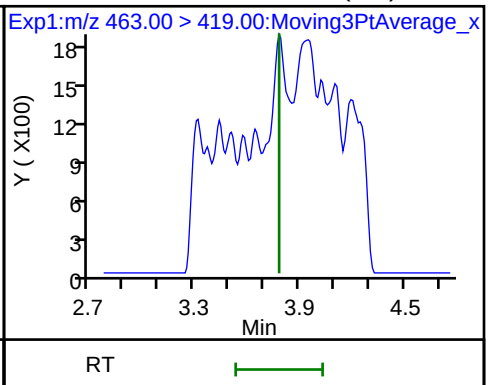
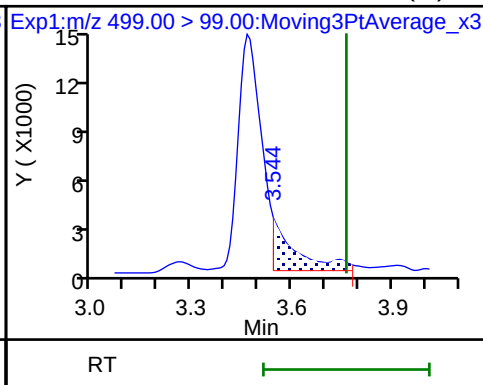
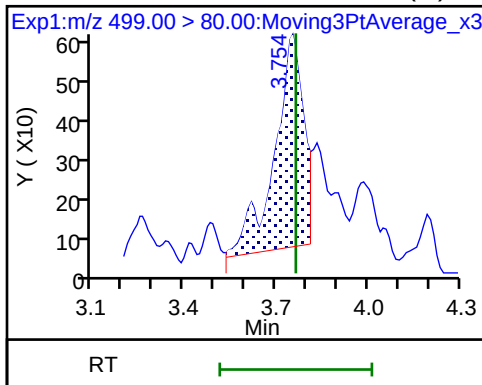
D 18 13C4 PFOS

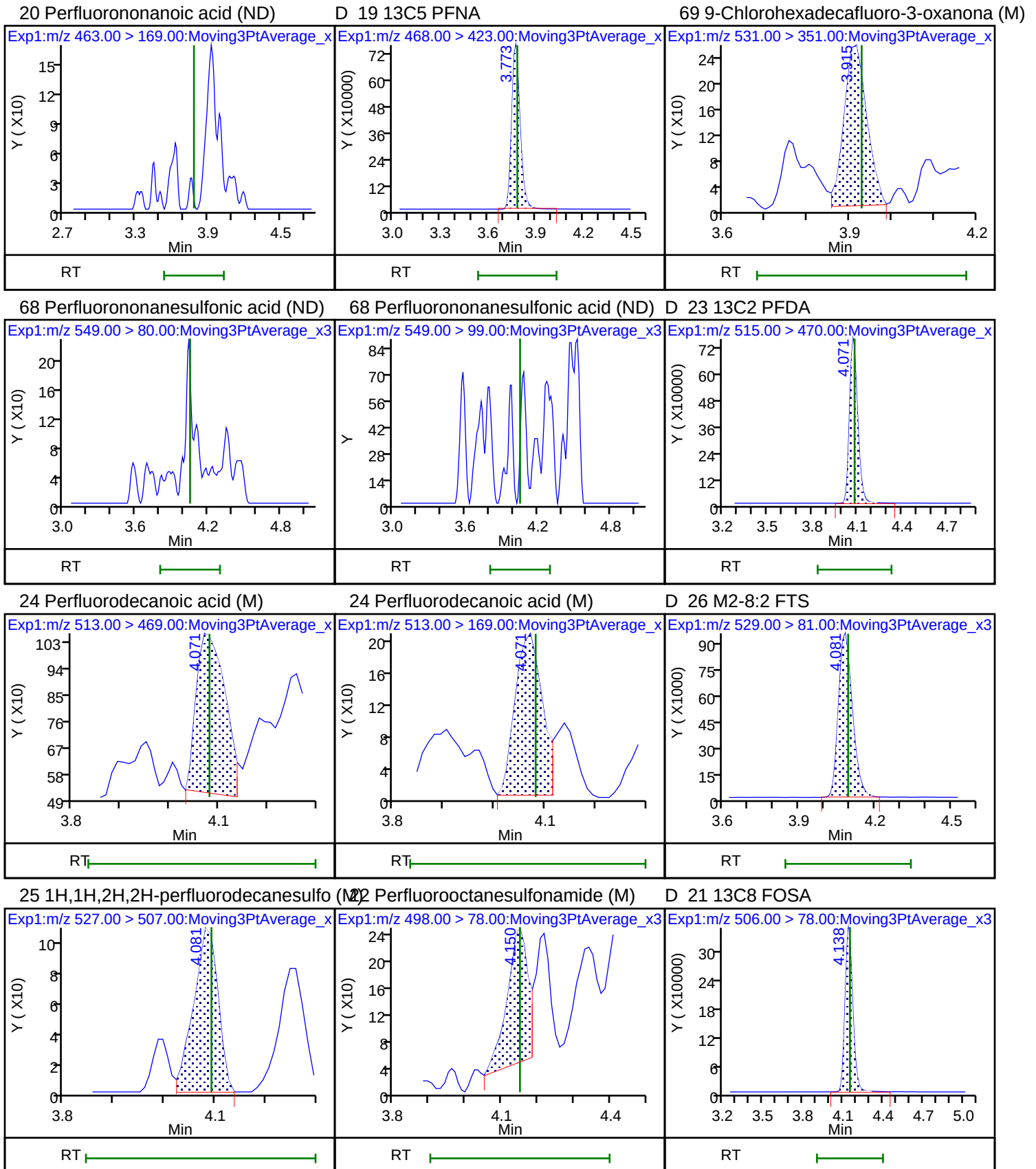


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

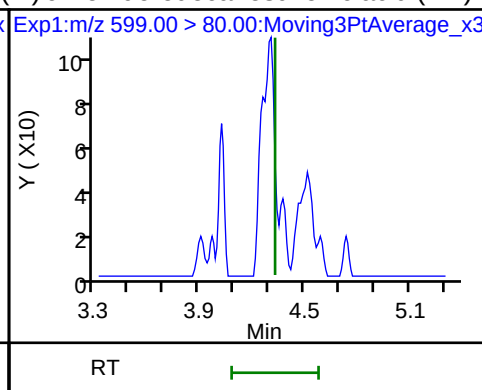
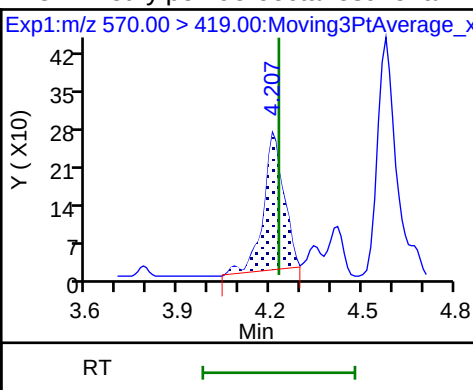
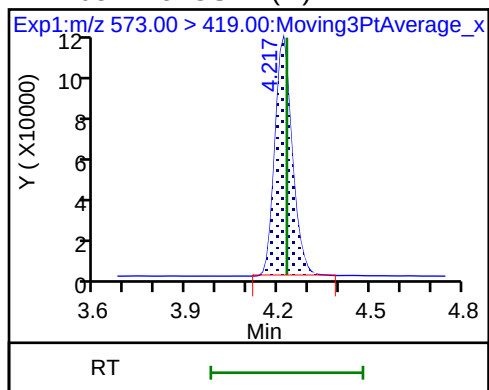




D 27 d3-NMeFOSAA (M)

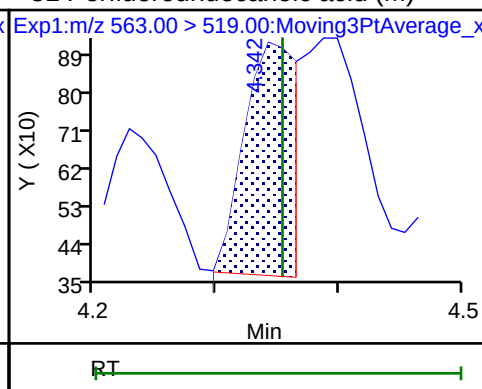
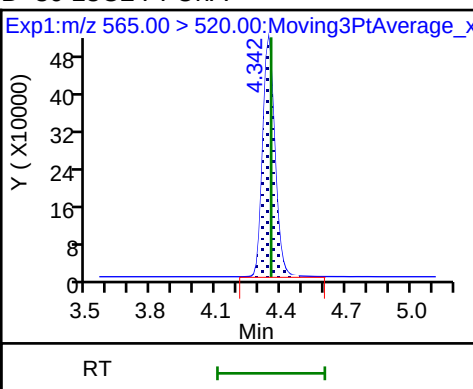
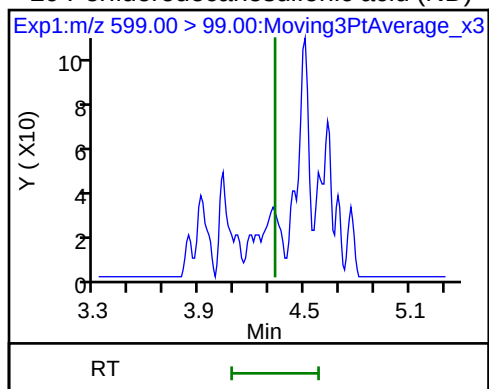
28 N-methylperfluorooctanesulfonami (M)

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

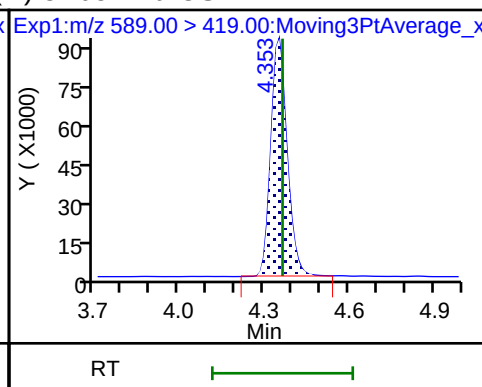
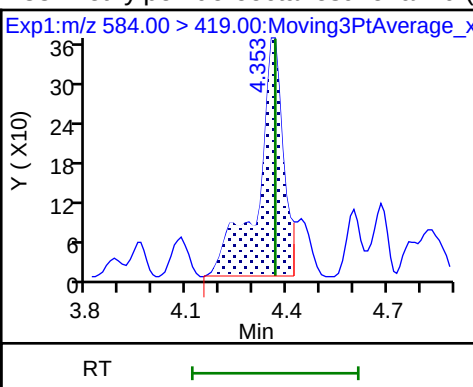
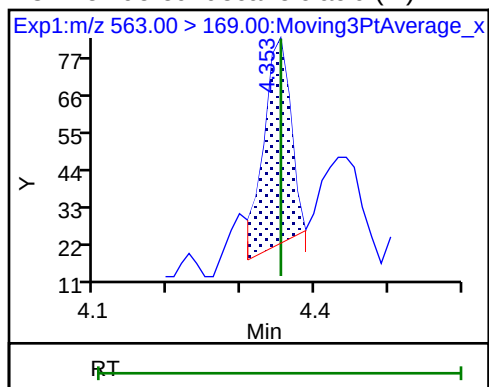
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

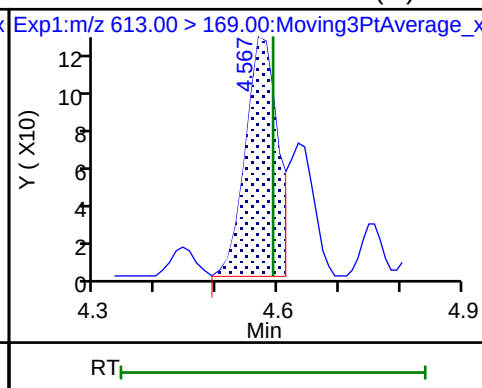
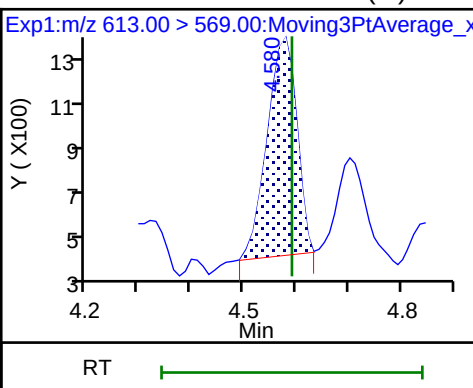
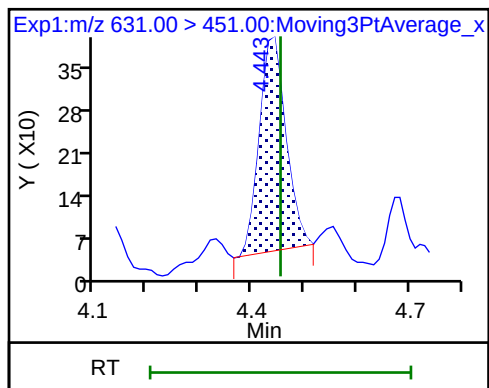
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

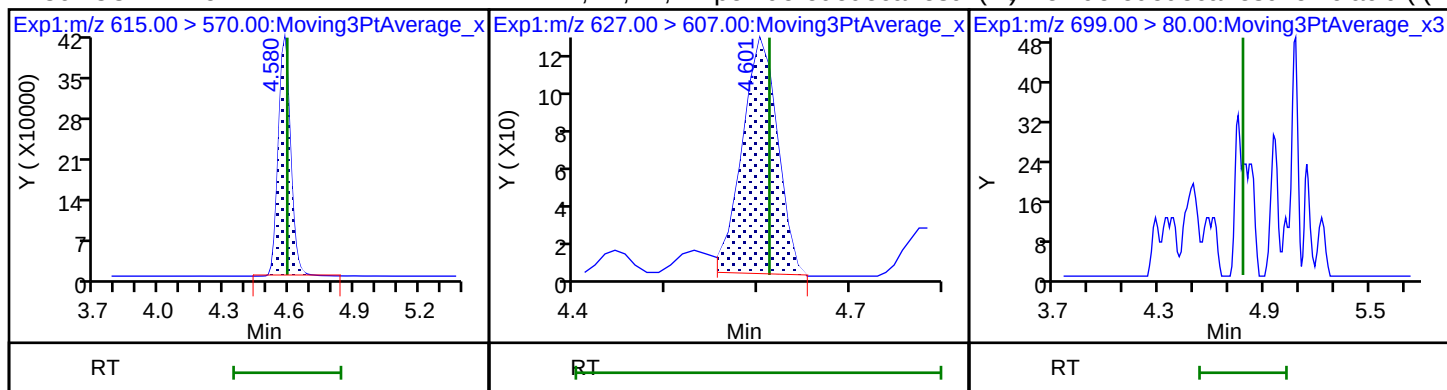
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



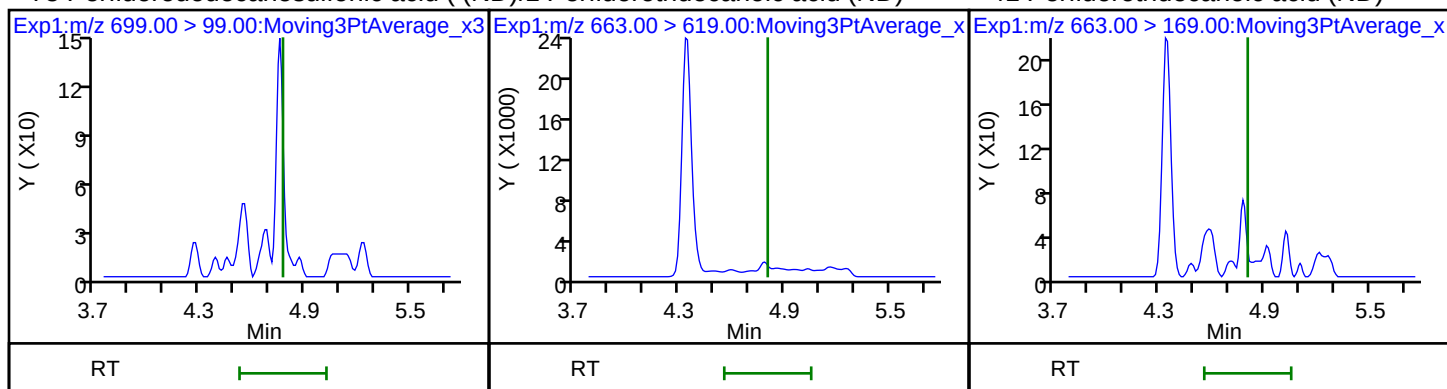
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)

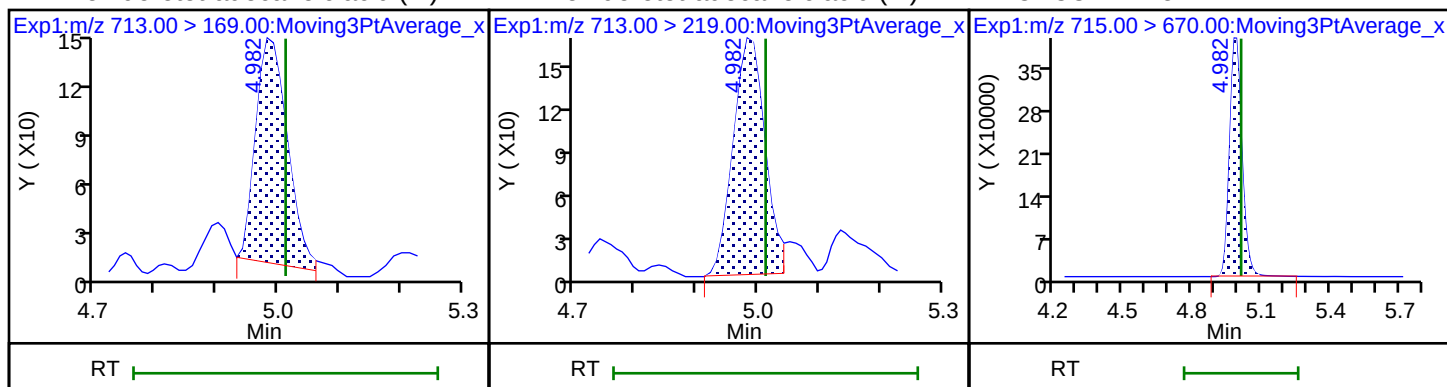
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

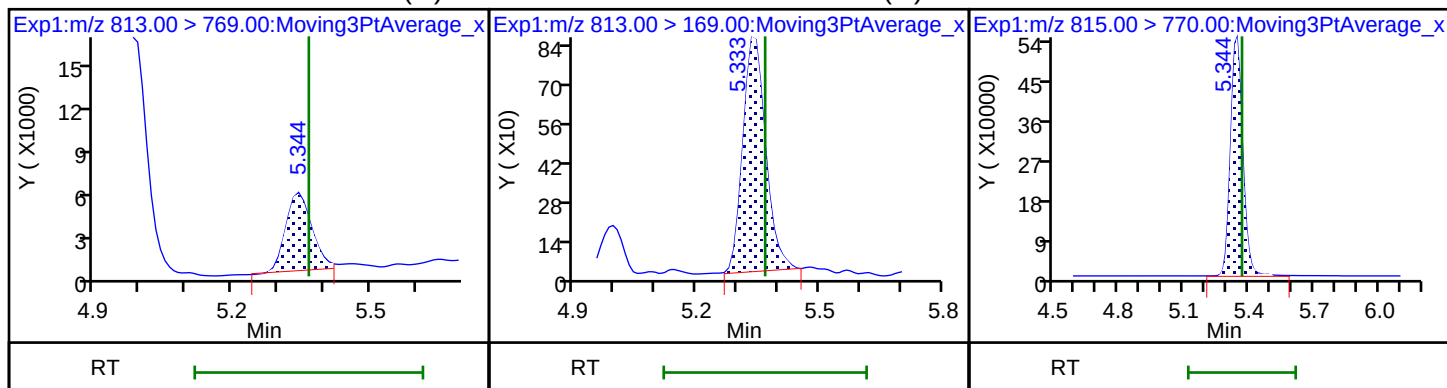
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45 Perfluorohexadecanoic acid (M)

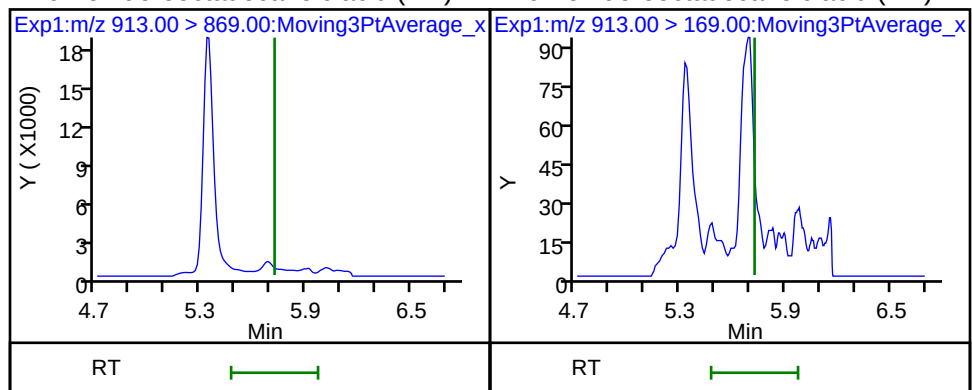
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d

Injection Date: 04-Jan-2023 15:42:42

Instrument ID: LC812

Lims ID: MB 200-187194/1-A

Client ID:

Operator ID: lc812tech

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

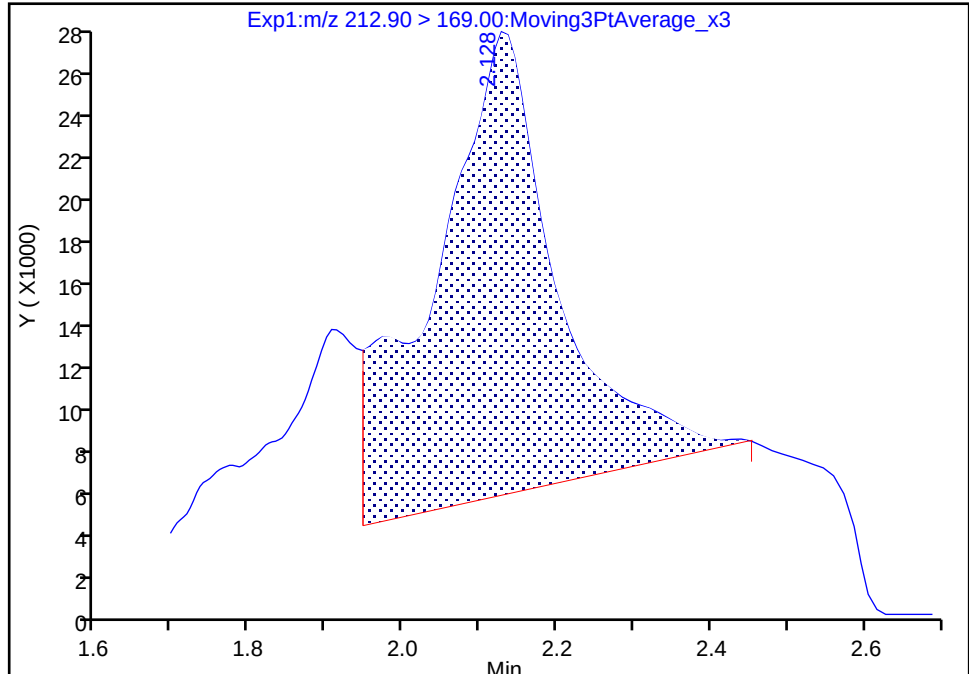
EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

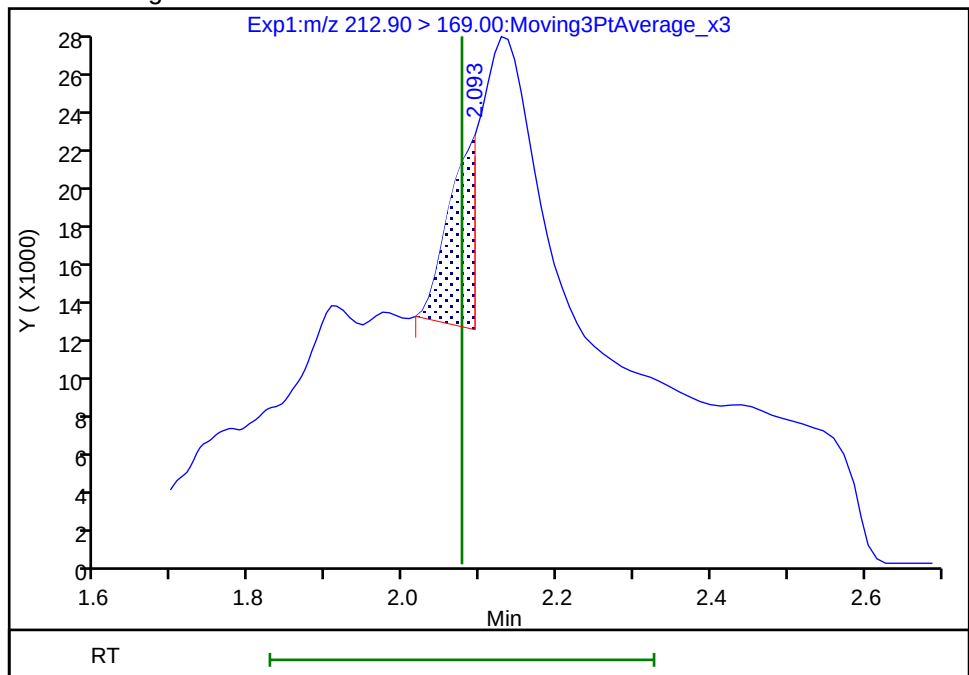
RT: 2.13
Area: 243022
Amount: 0.104973
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 23002
Amount: 0.009936
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:38:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

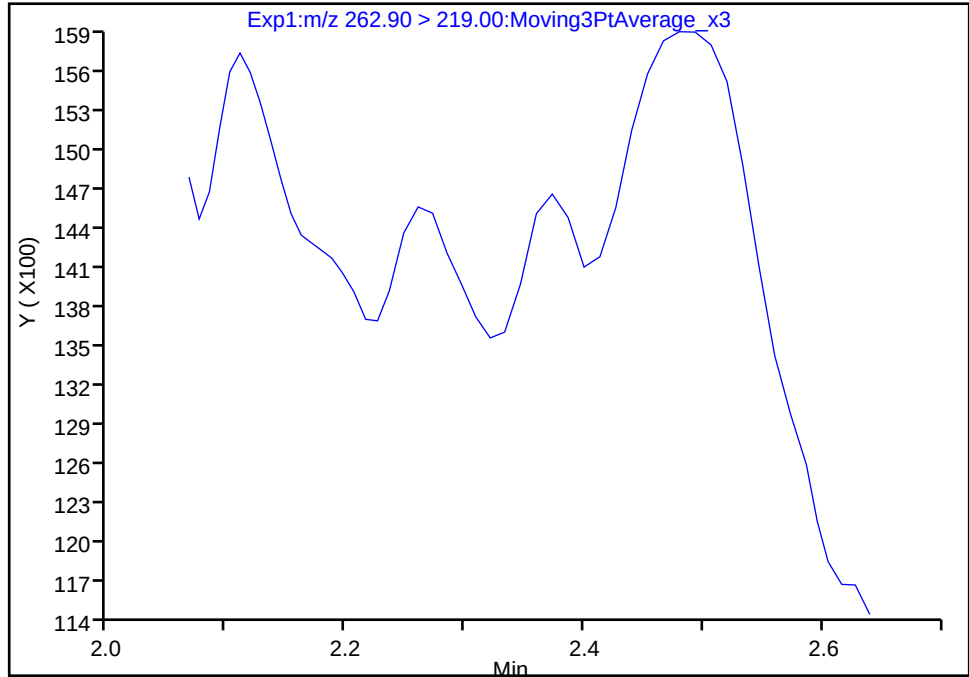
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

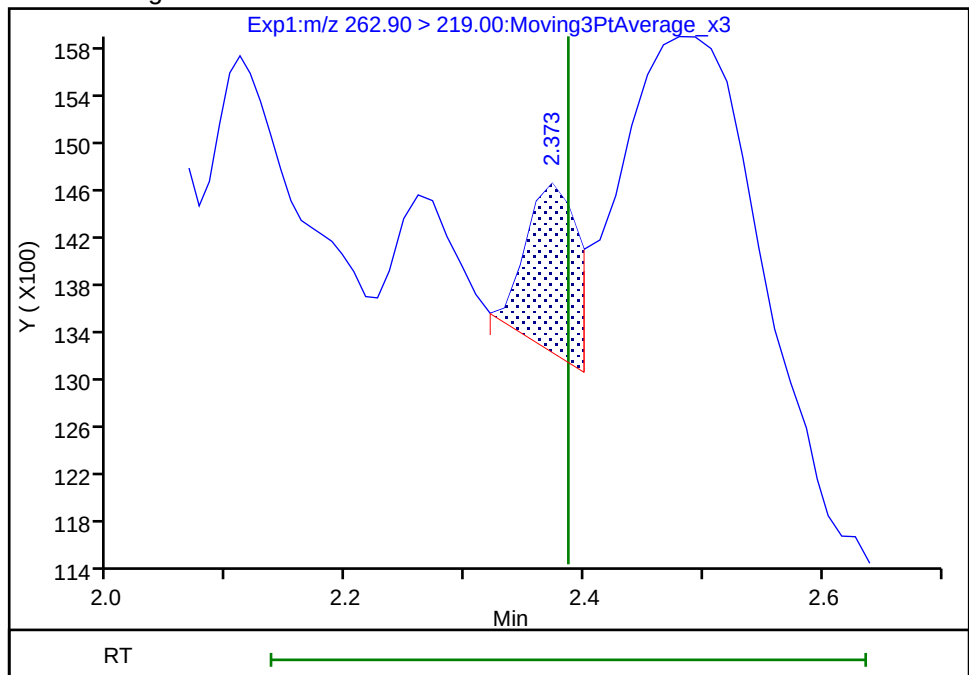
Not Detected
Expected RT: 2.39

Processing Integration Results



RT: 2.37
Area: 4014
Amount: 0.002294
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:38:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

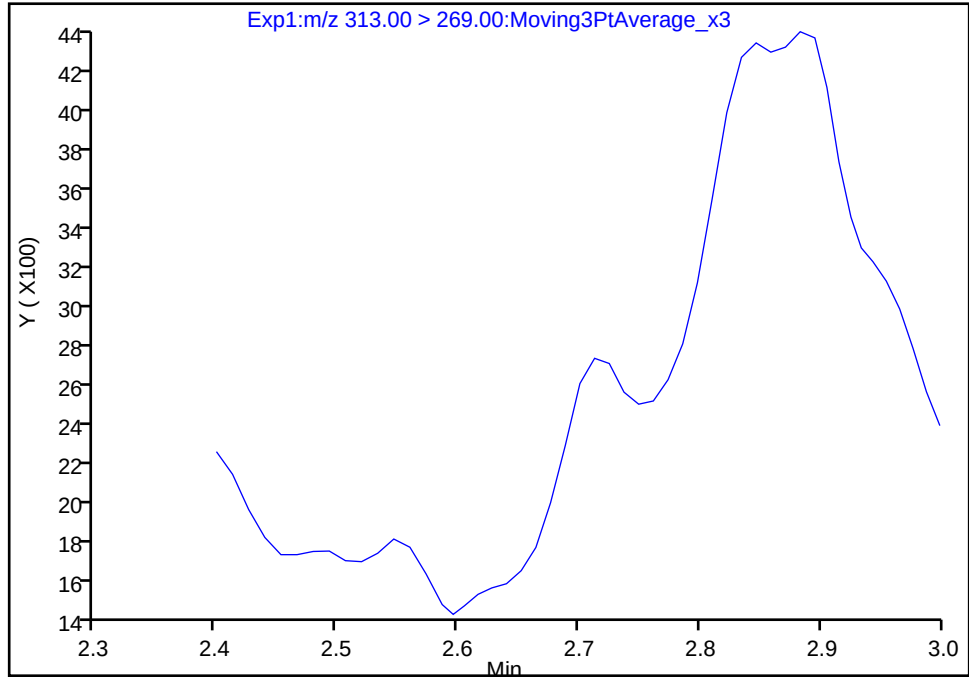
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Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

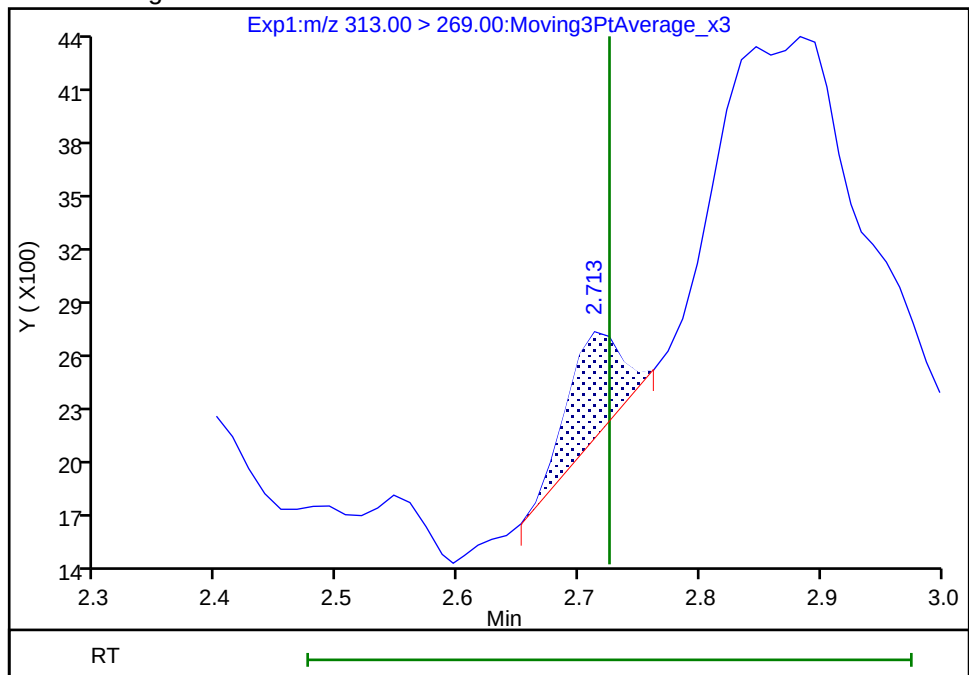
Signal: 1

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



RT: 2.71
Area: 1781
Amount: 0.000896
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:38:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

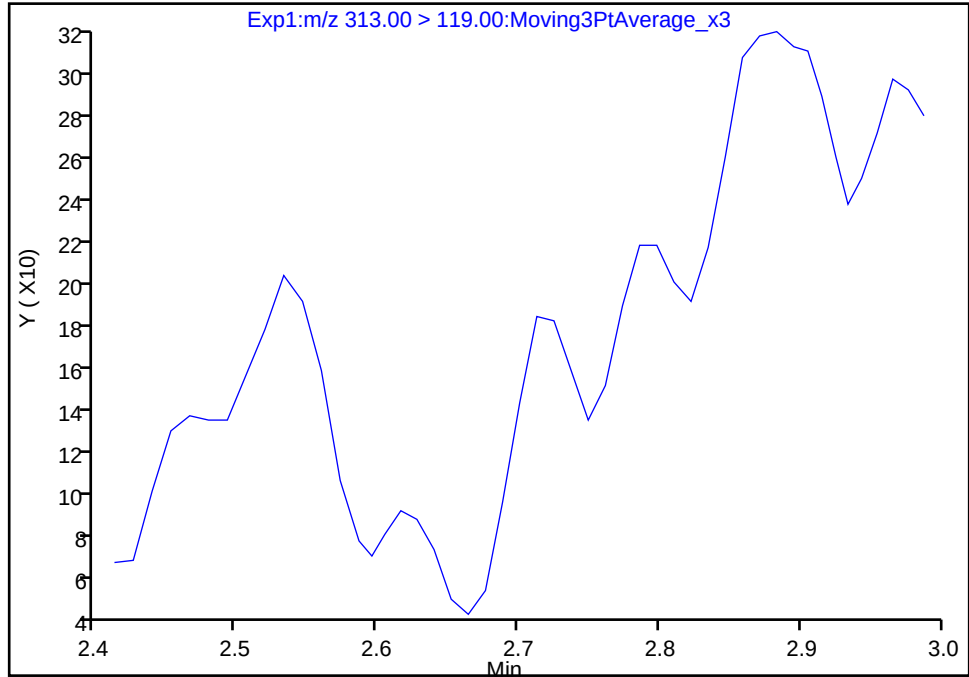
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

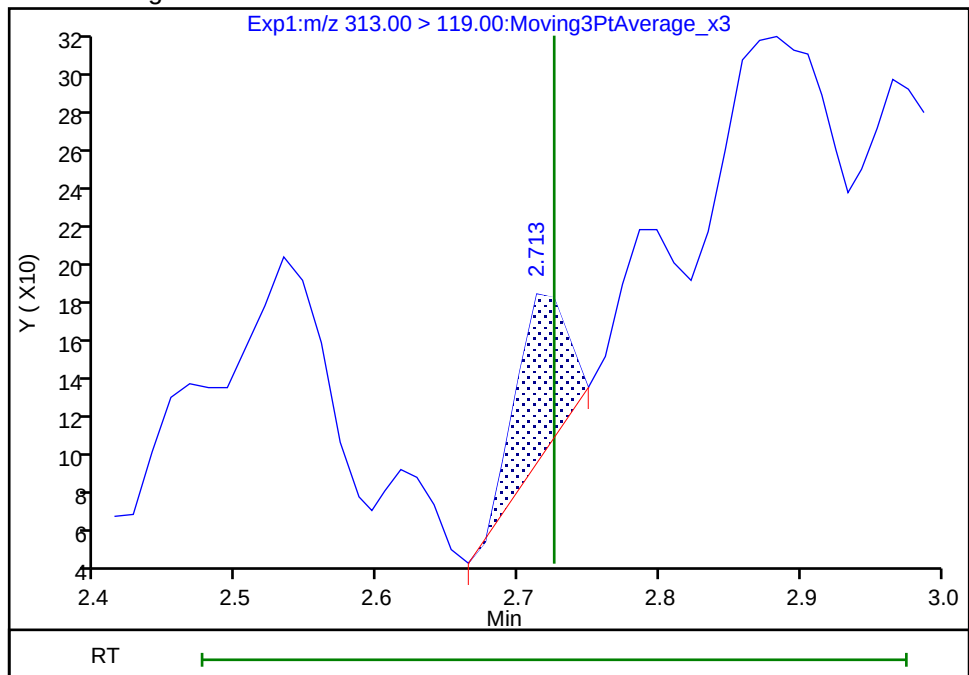
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 202
Amount: 0.000896
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:39:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

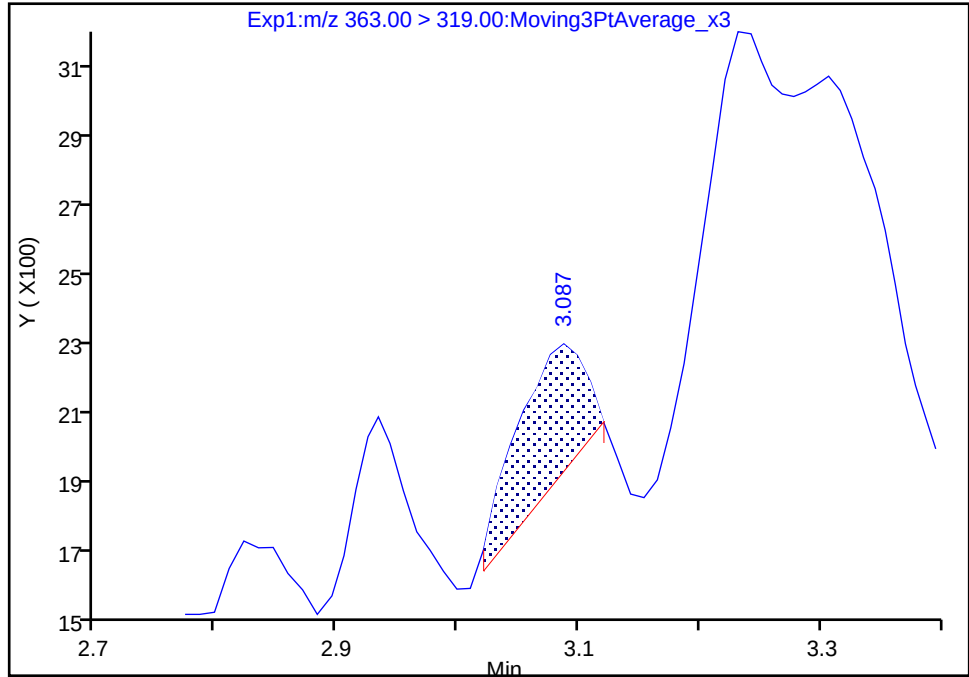
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

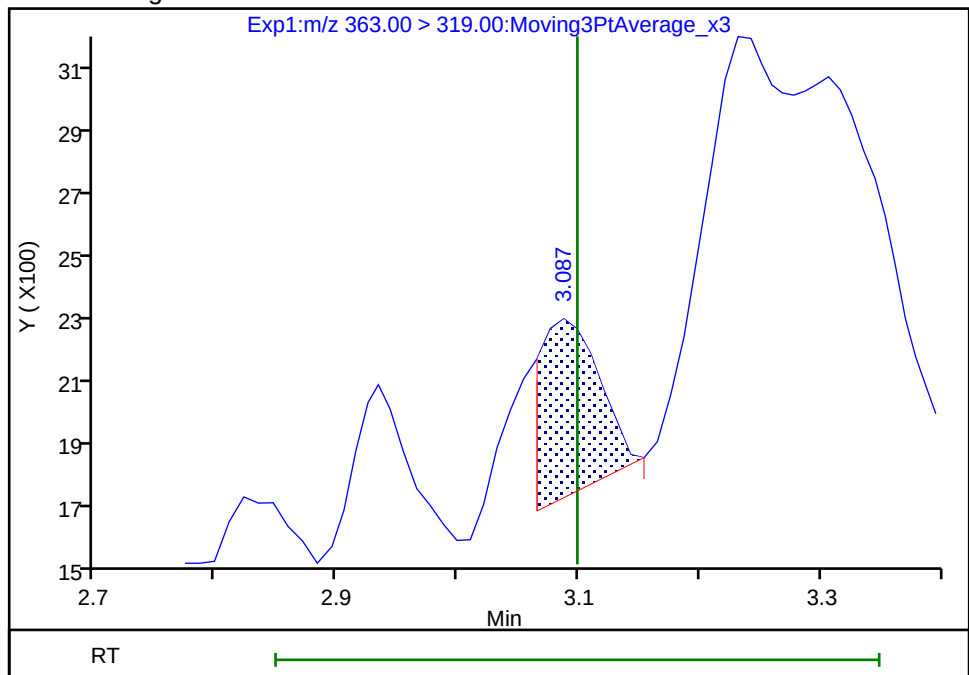
RT: 3.09
Area: 1534
Amount: 0.000713
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1791
Amount: 0.000833
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:39:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

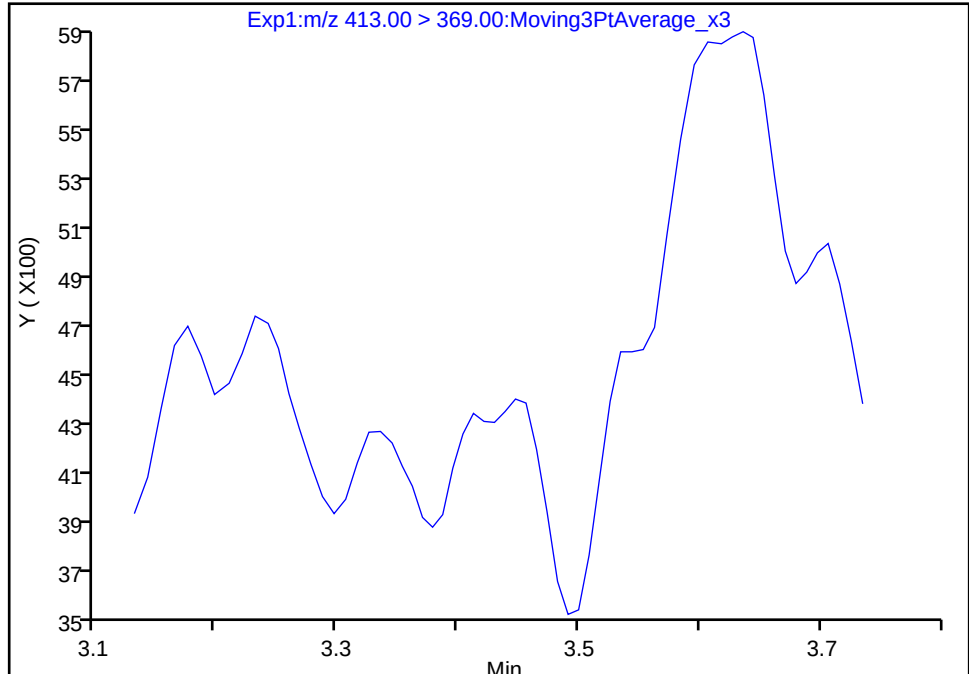
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

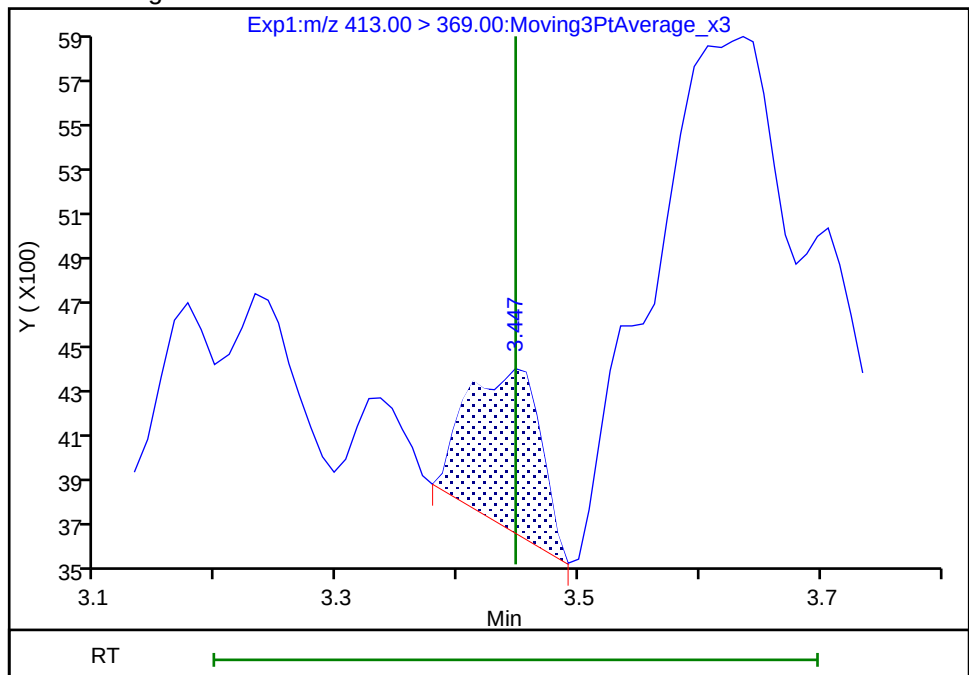
Signal: 1

Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.45
Area: 2931
Amount: 0.001242
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:39:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

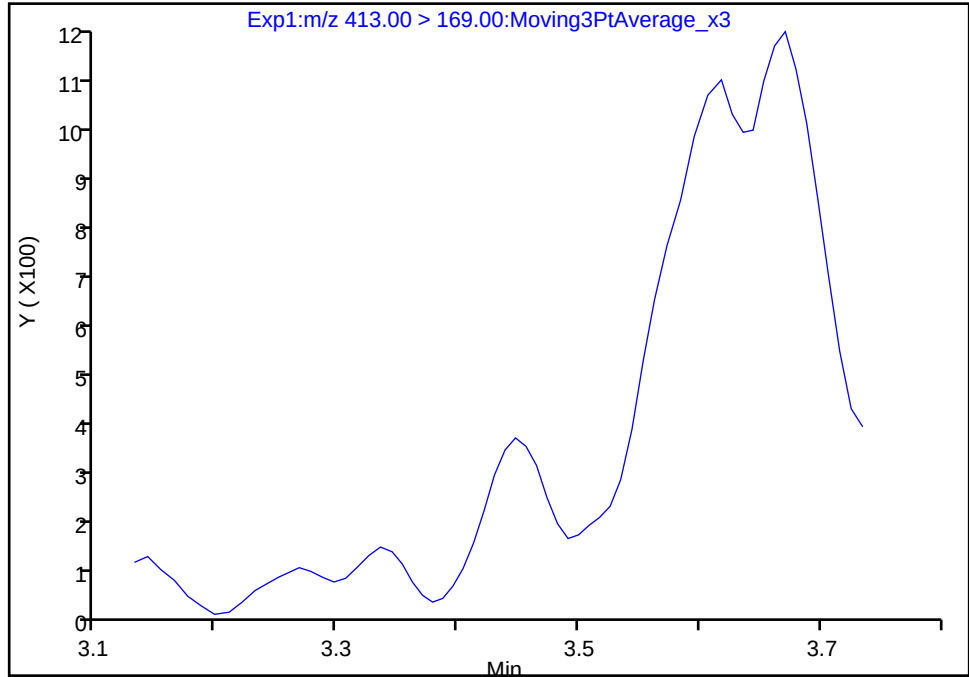
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

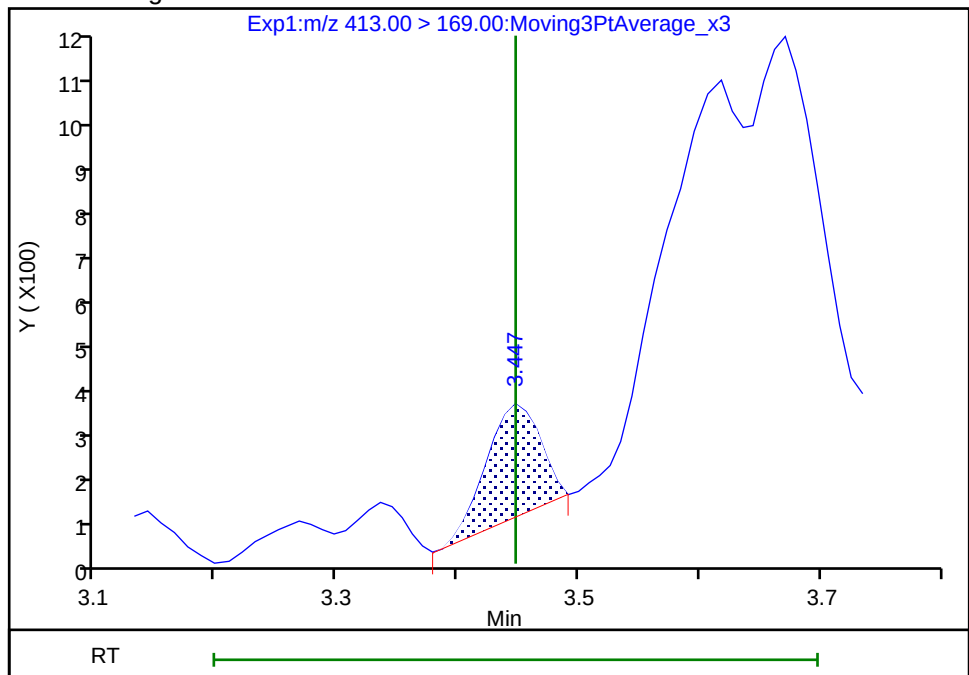
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 732
Amount: 0.001242
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:39:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

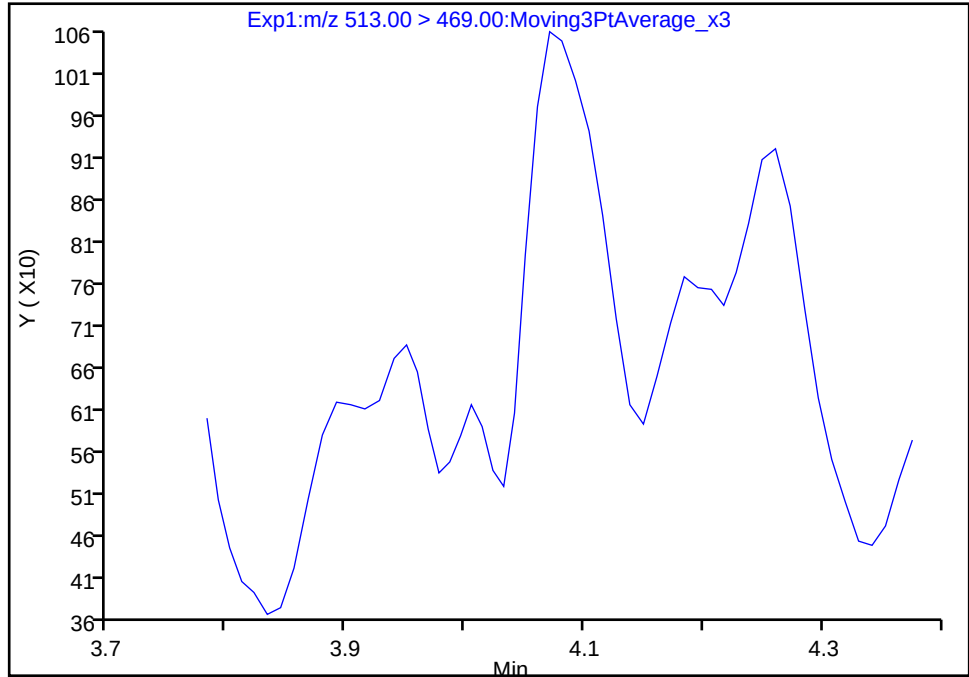
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

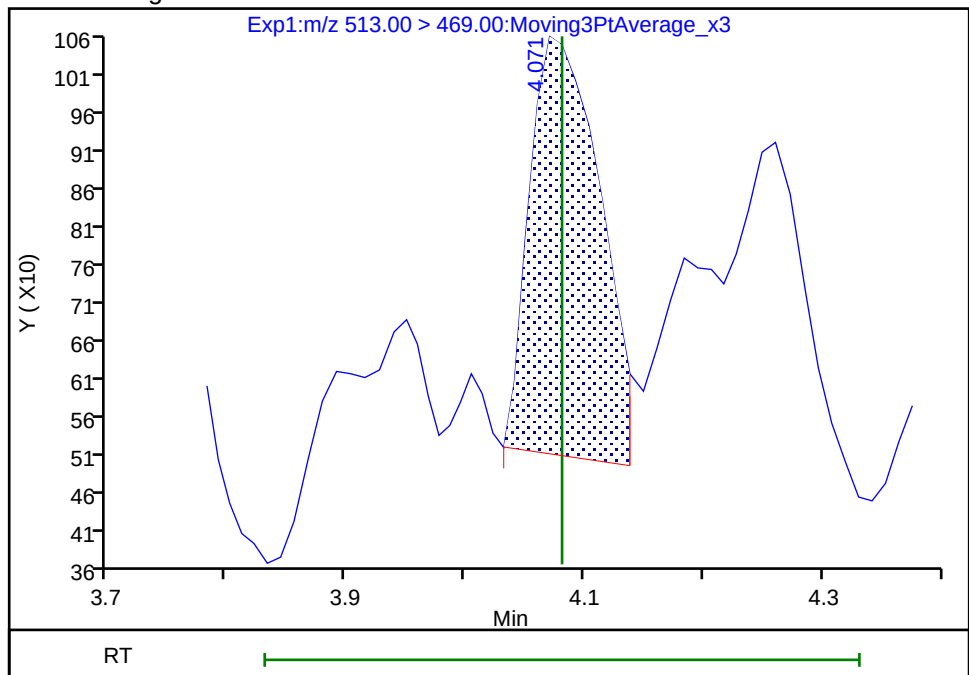
Signal: 1

Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.07
Area: 2247
Amount: 0.000897
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:41:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

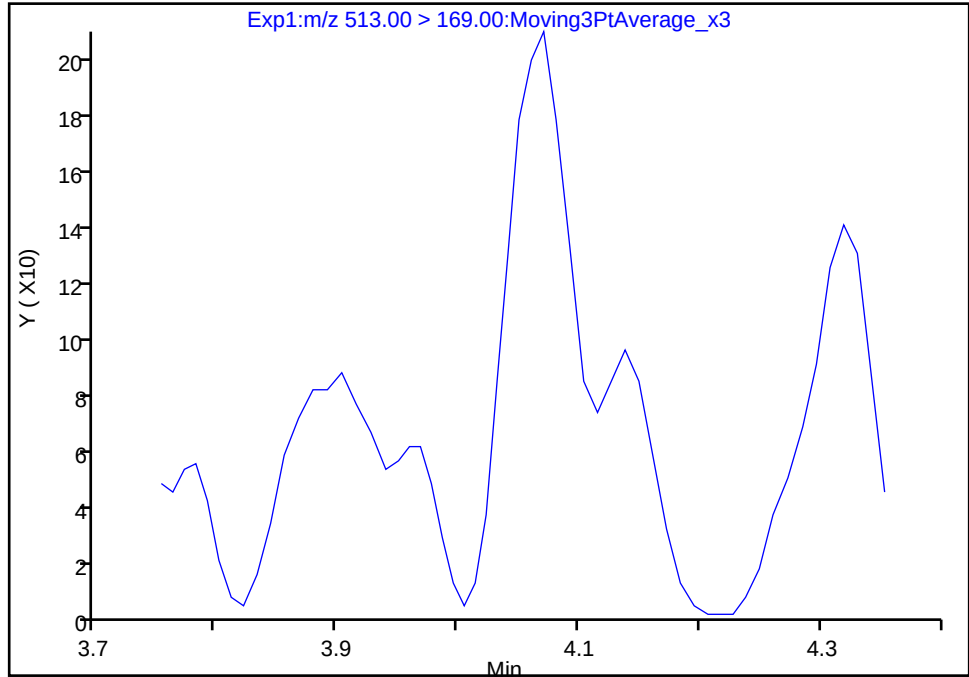
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

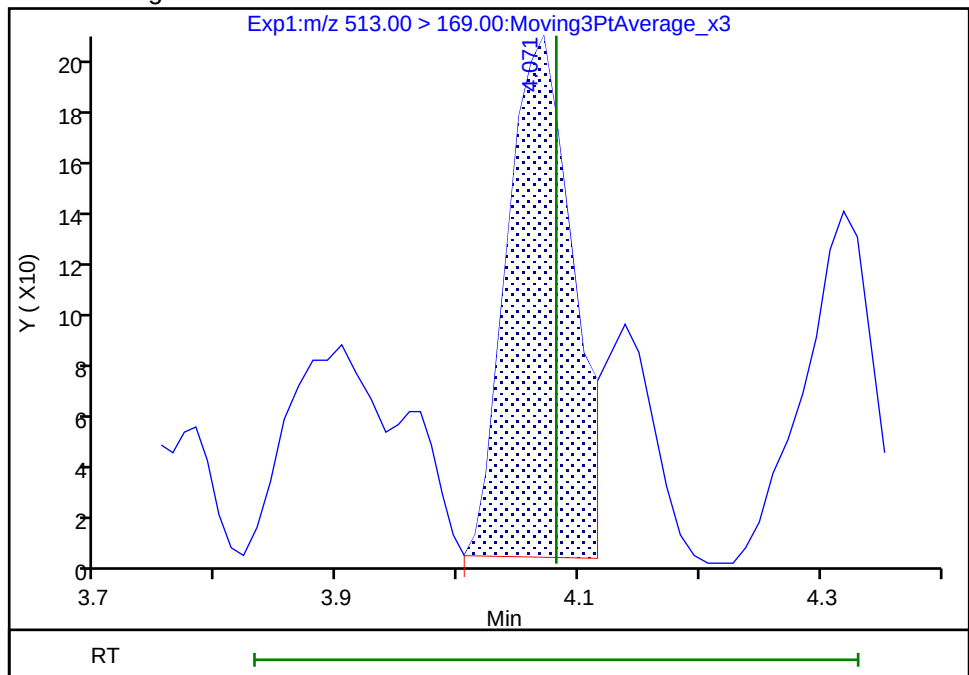
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 752
Amount: 0.000897
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:41:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

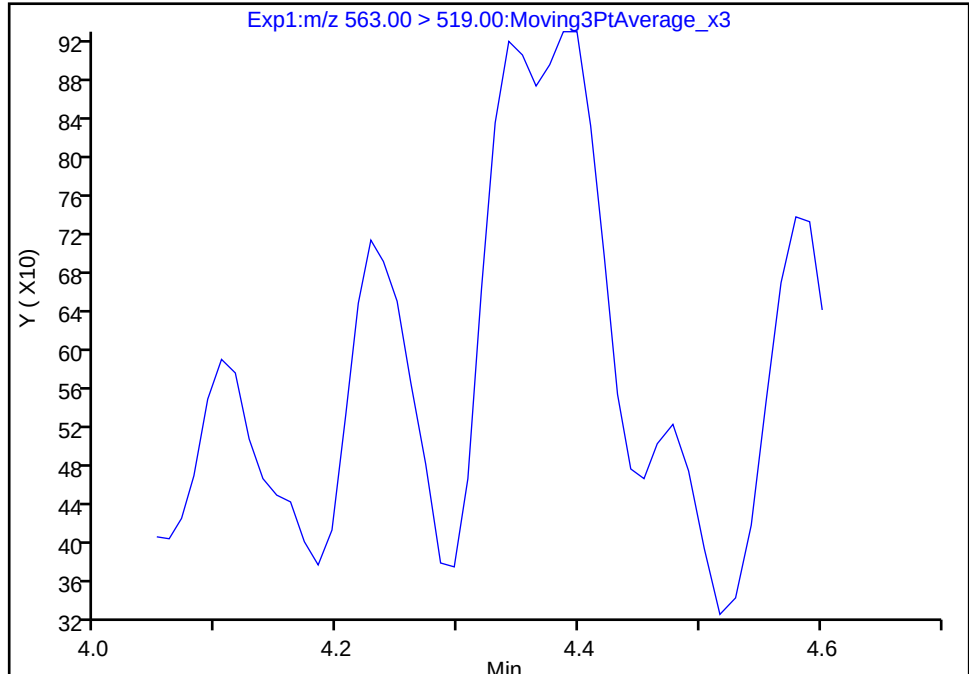
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

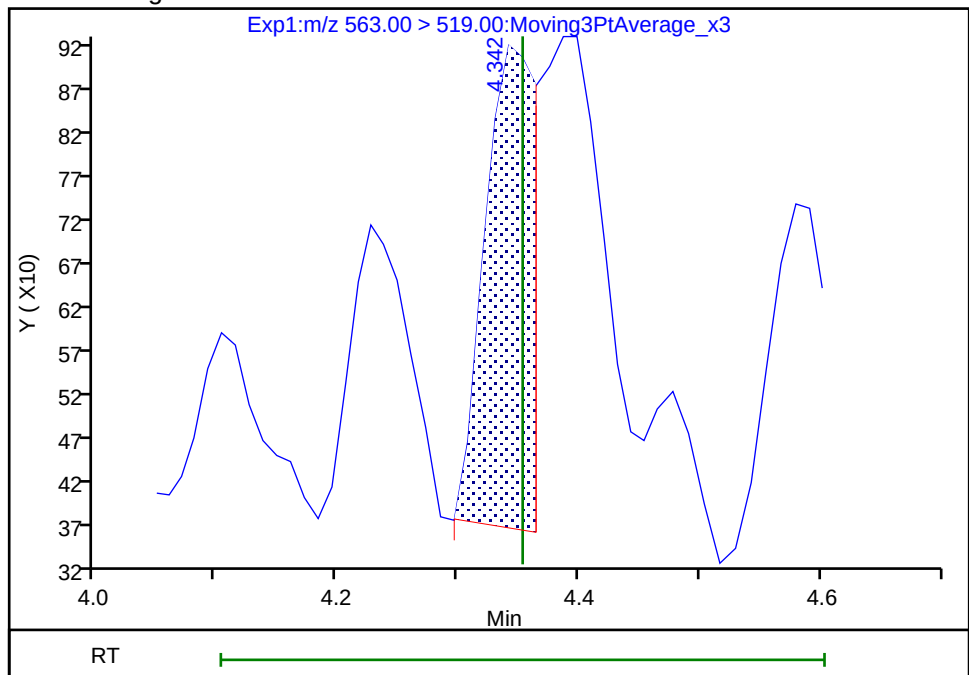
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.34
Area: 1488
Amount: 0.000915
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:41:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

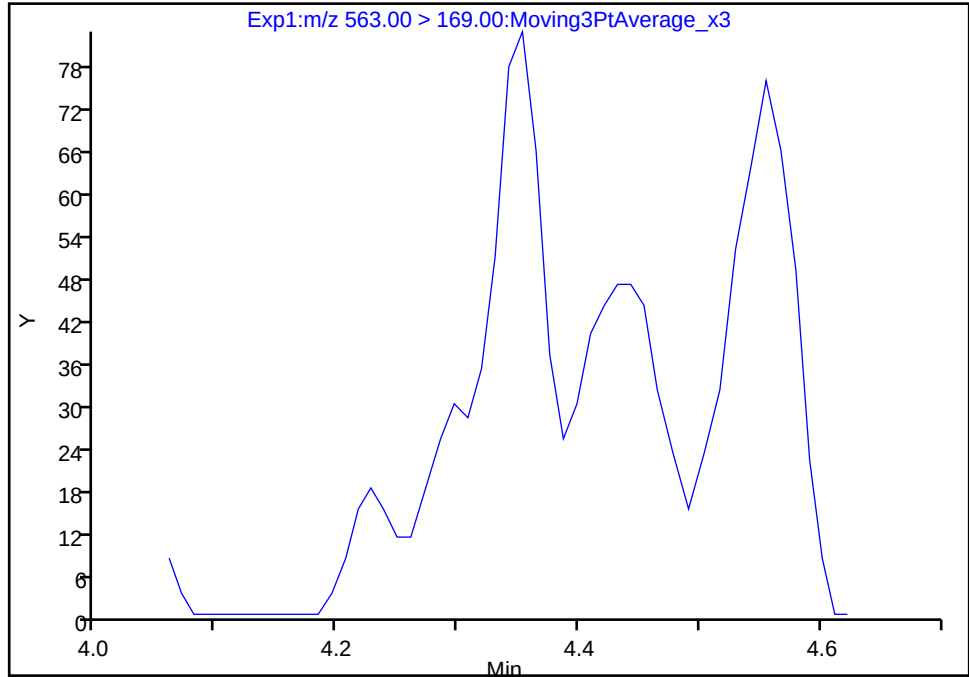
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

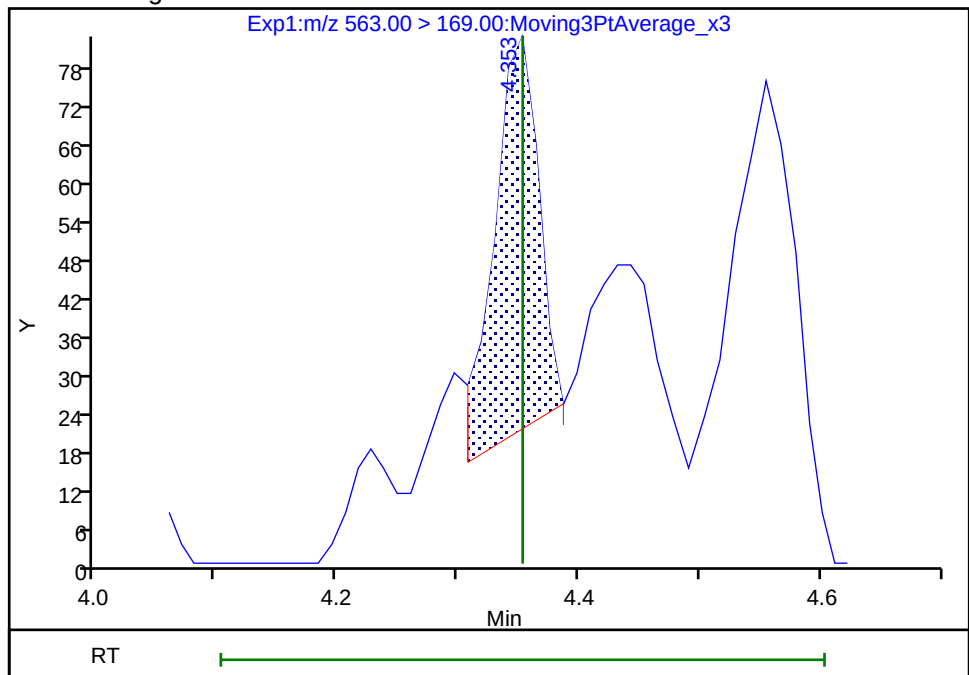
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 157
Amount: 0.000915
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:41:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d

Injection Date: 04-Jan-2023 15:42:42

Instrument ID: LC812

Lims ID: MB 200-187194/1-A

Client ID:

Operator ID: lc812tech

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

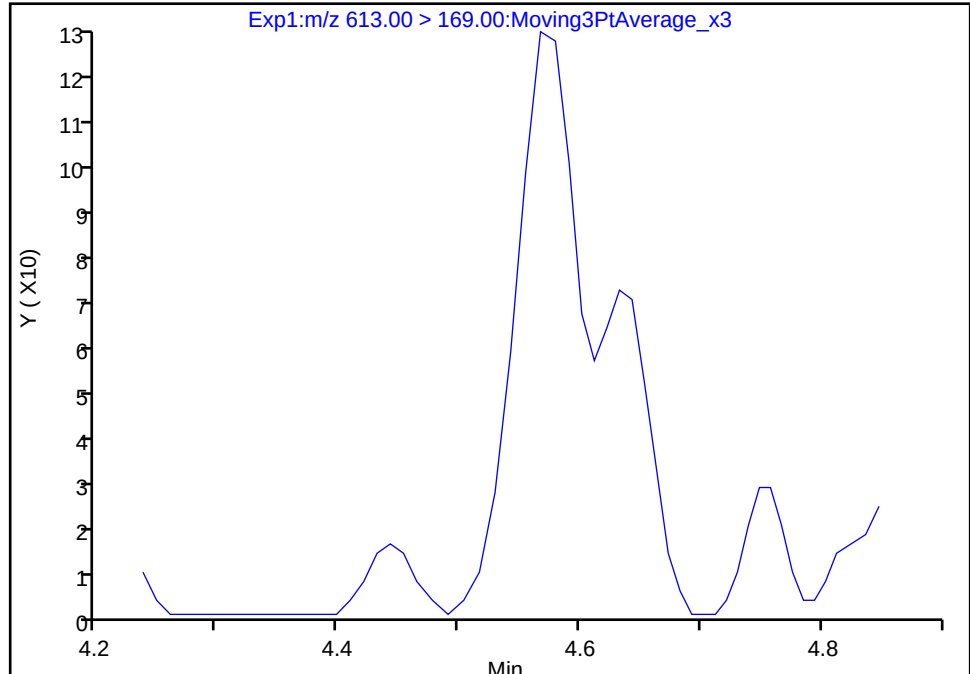
37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

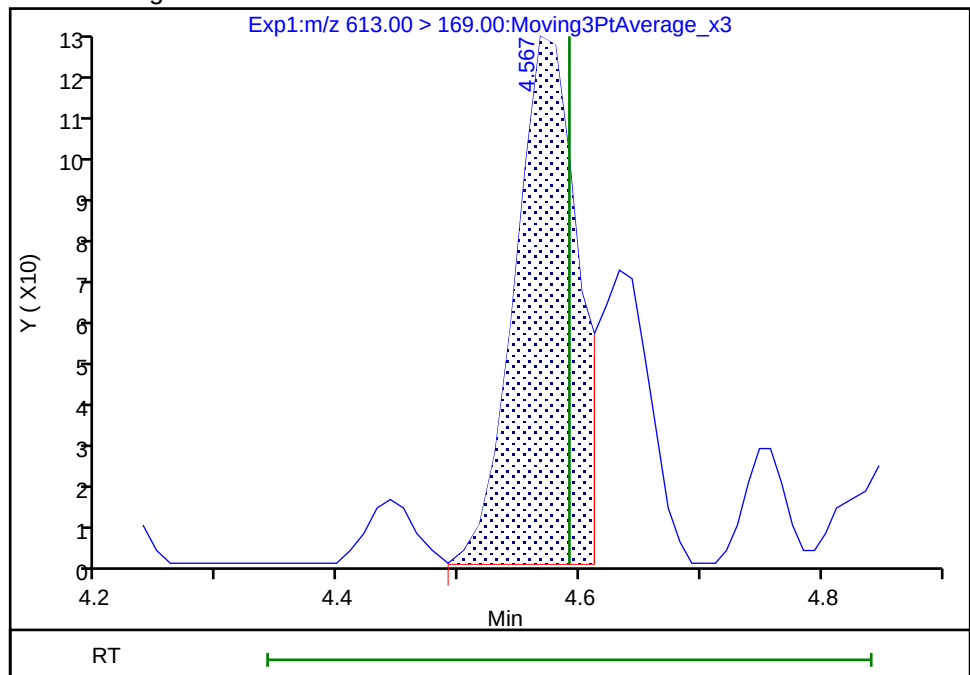
Not Detected

Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.57

Area: 439

Amount: 0.002616

Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:42:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

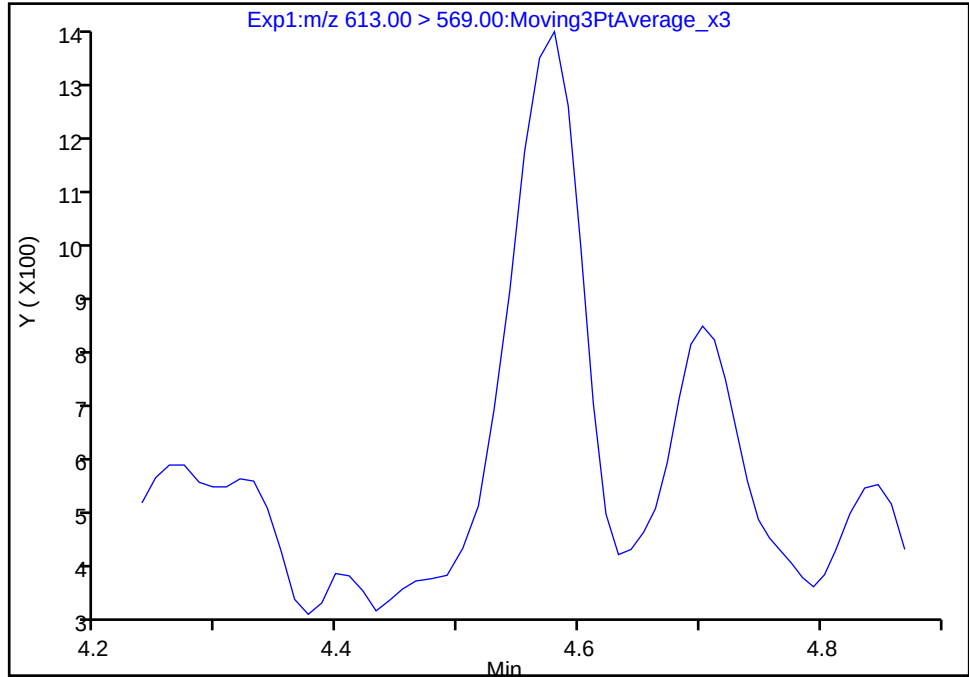
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

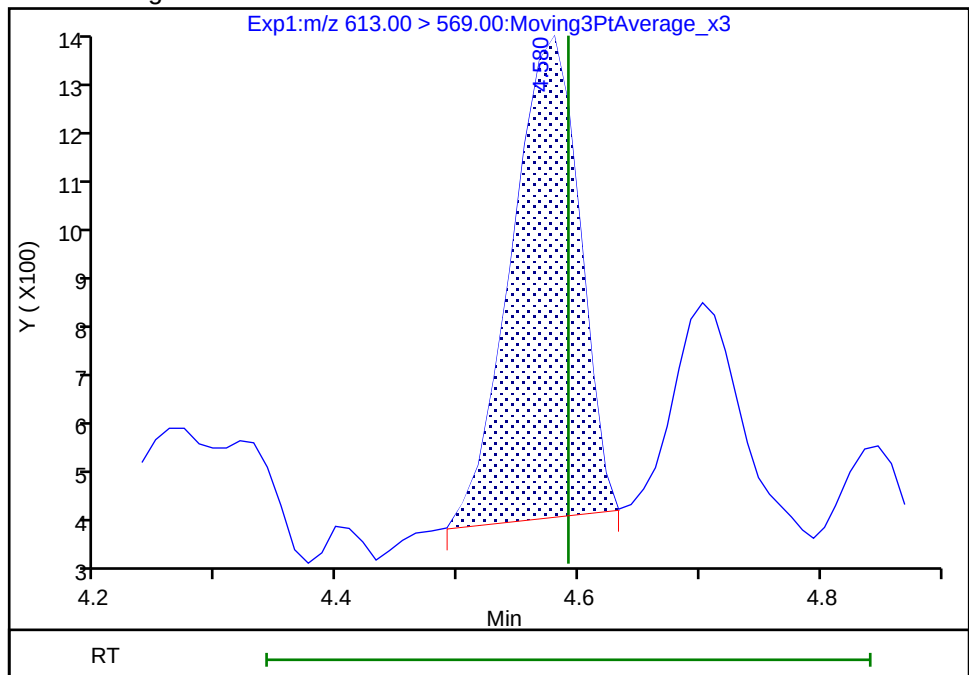
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 3623
Amount: 0.002616
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:42:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

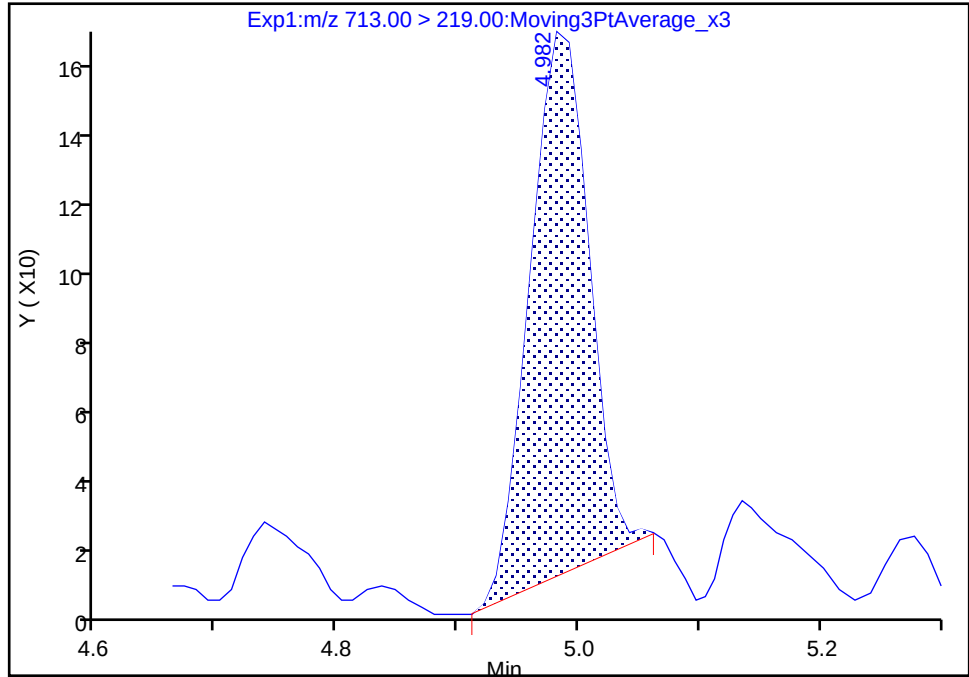
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

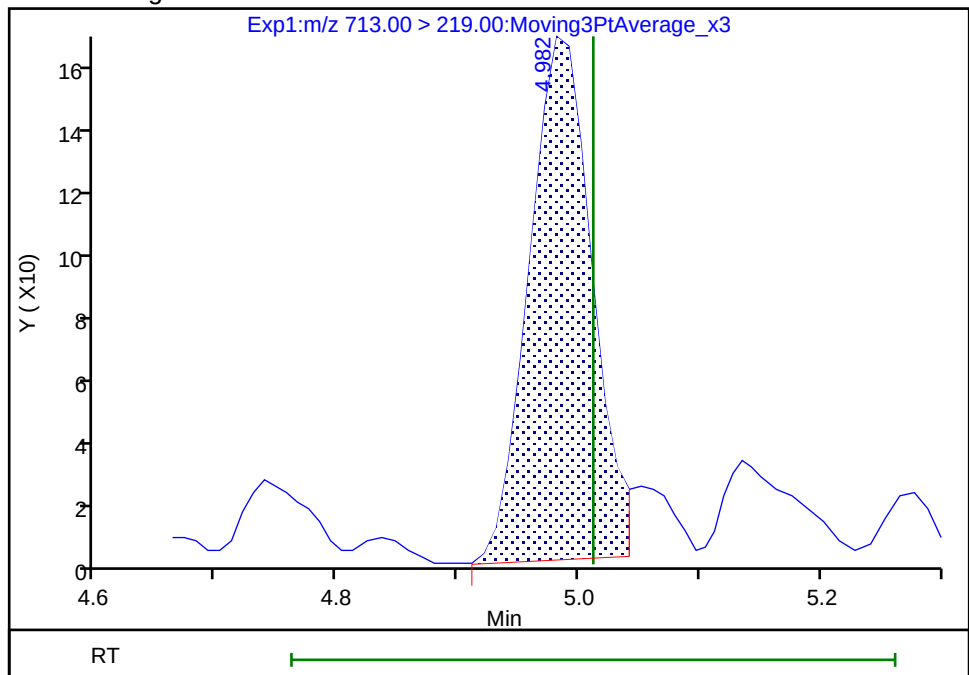
RT: 4.98
Area: 519
Amount: 0.002719
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 587
Amount: 0.003161
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:42:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

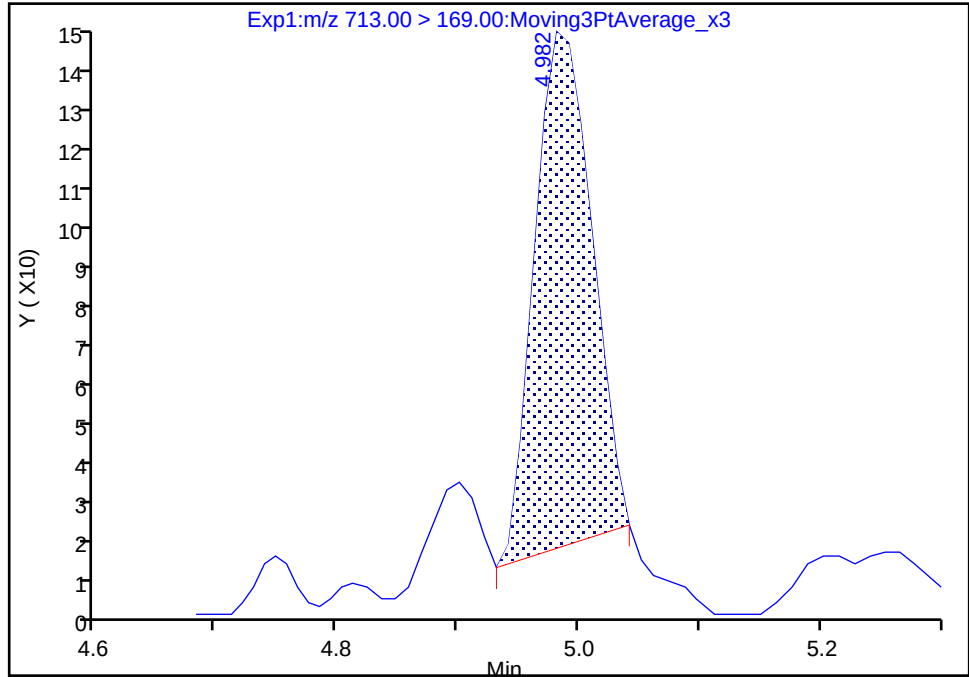
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

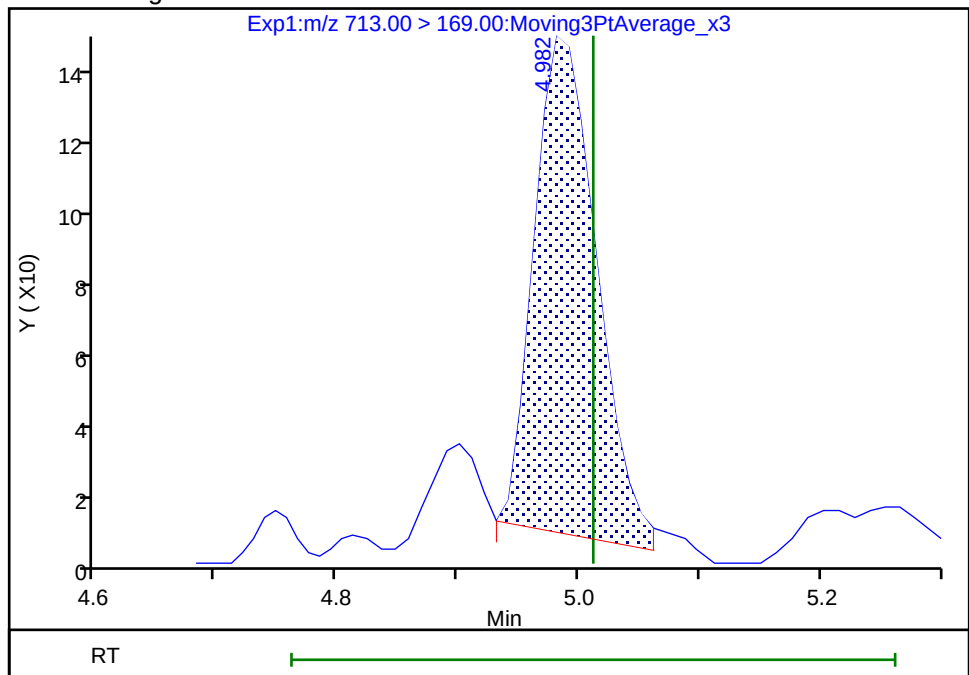
RT: 4.98
Area: 436
Amount: 0.002719
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 507
Amount: 0.003161
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:42:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

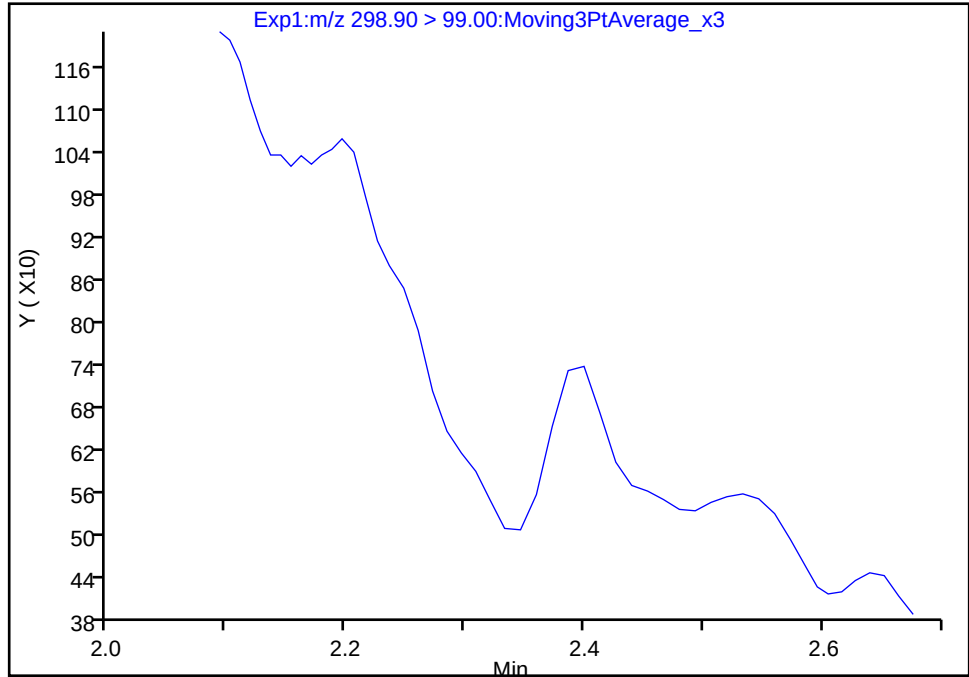
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

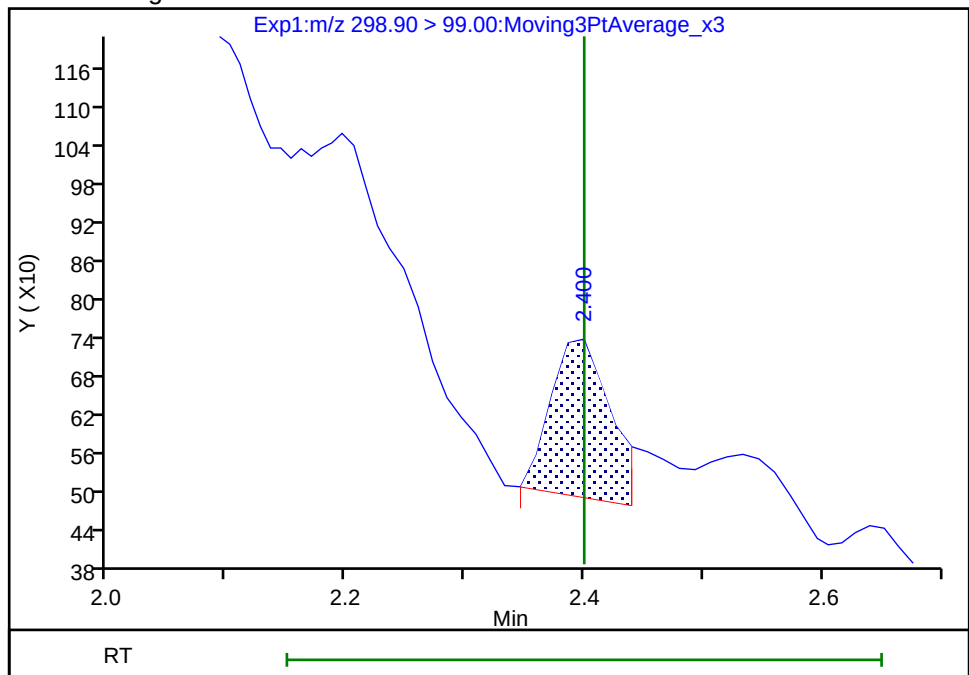
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 846
Amount: 0.001604
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:38:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

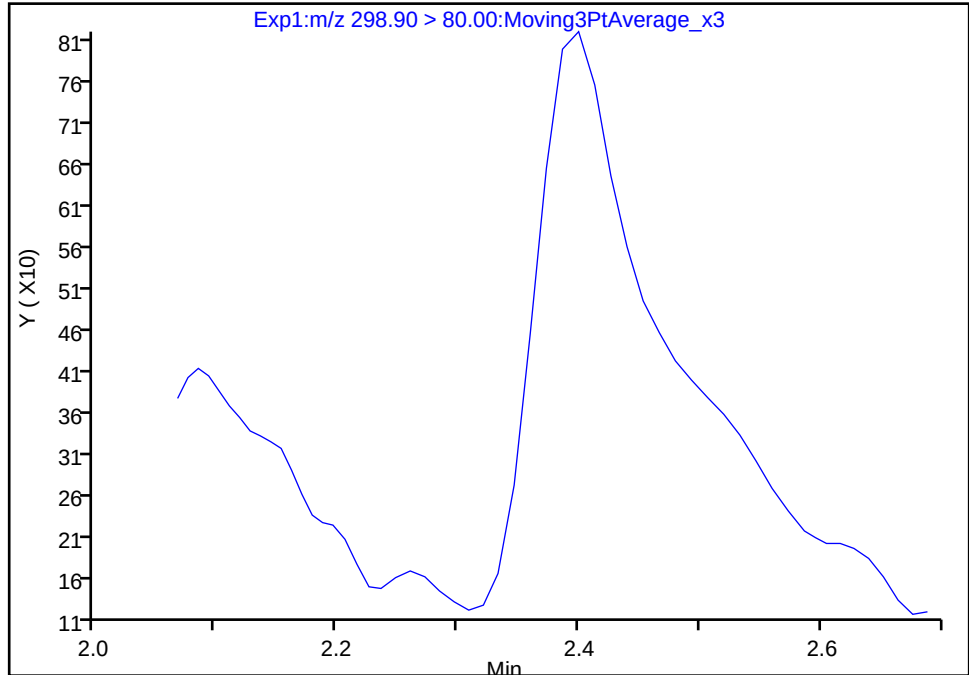
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

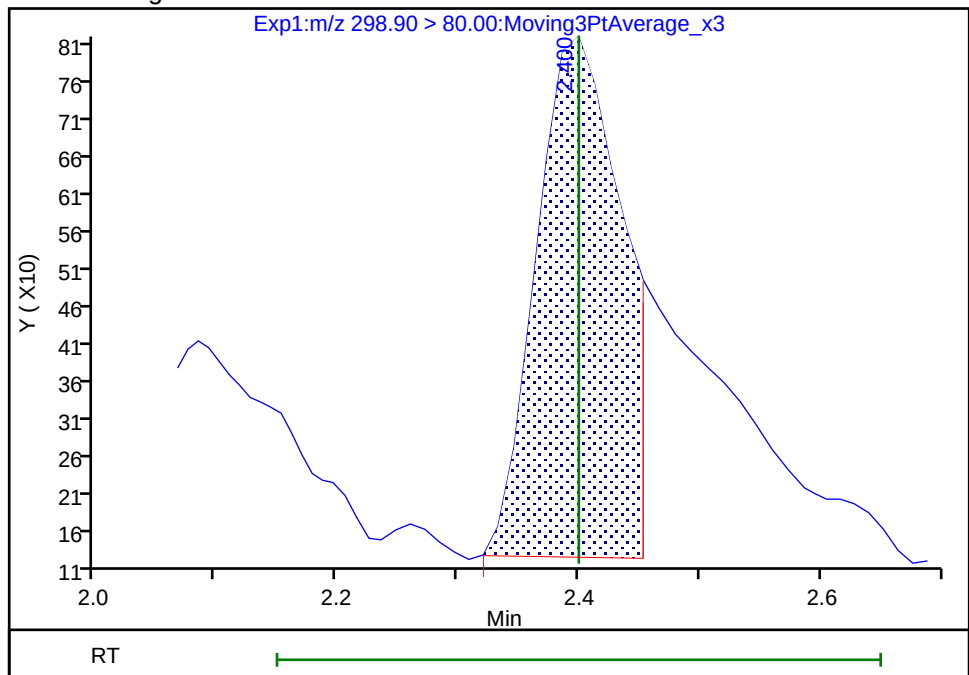
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 3330
Amount: 0.001604
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:38:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

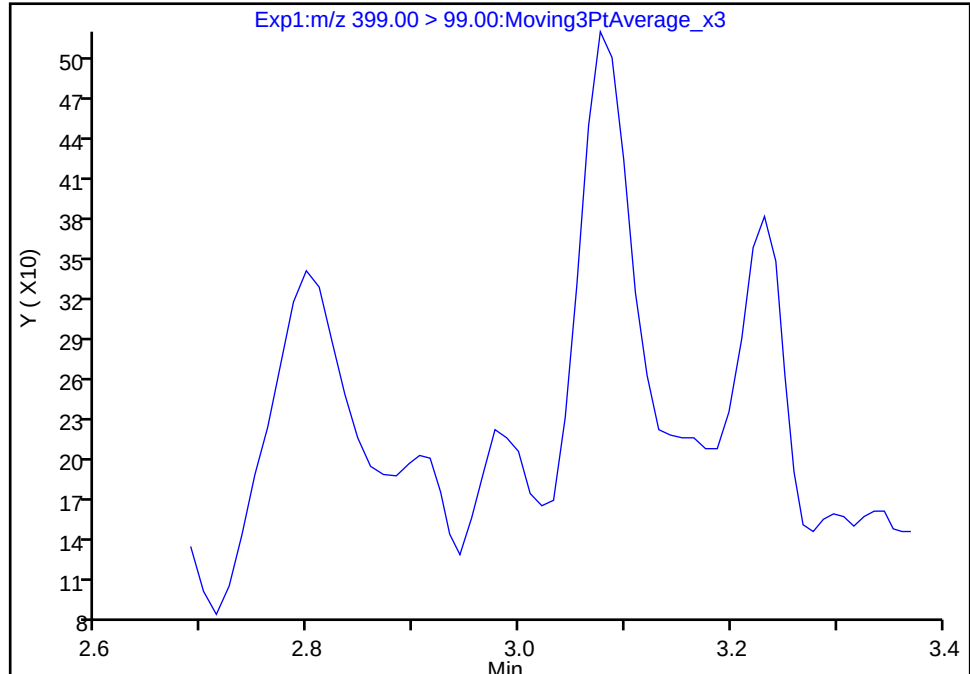
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

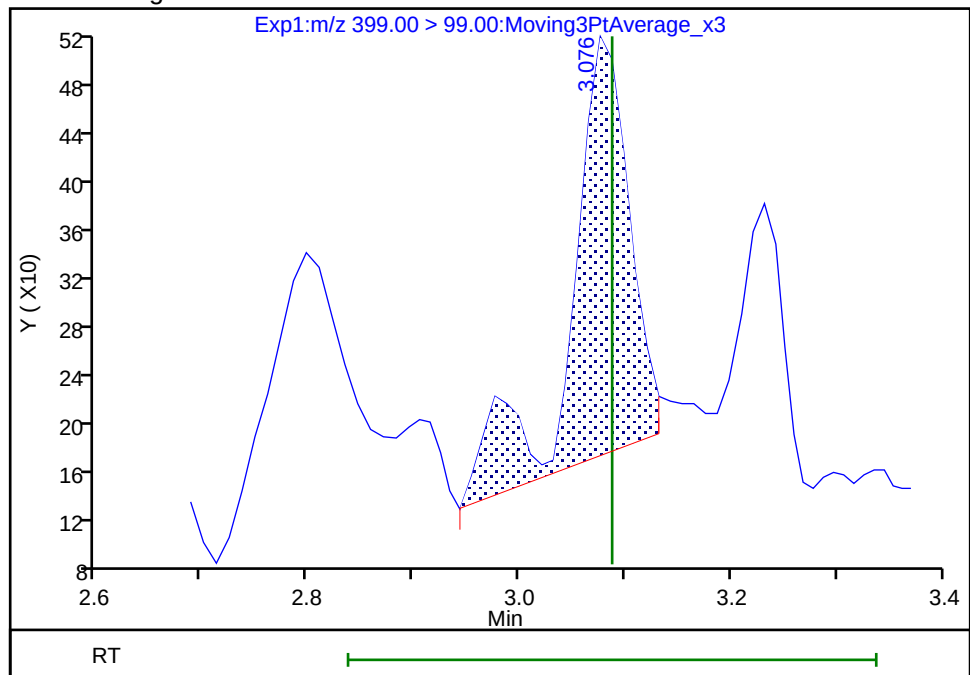
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 1304
Amount: 0.003726
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:39:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

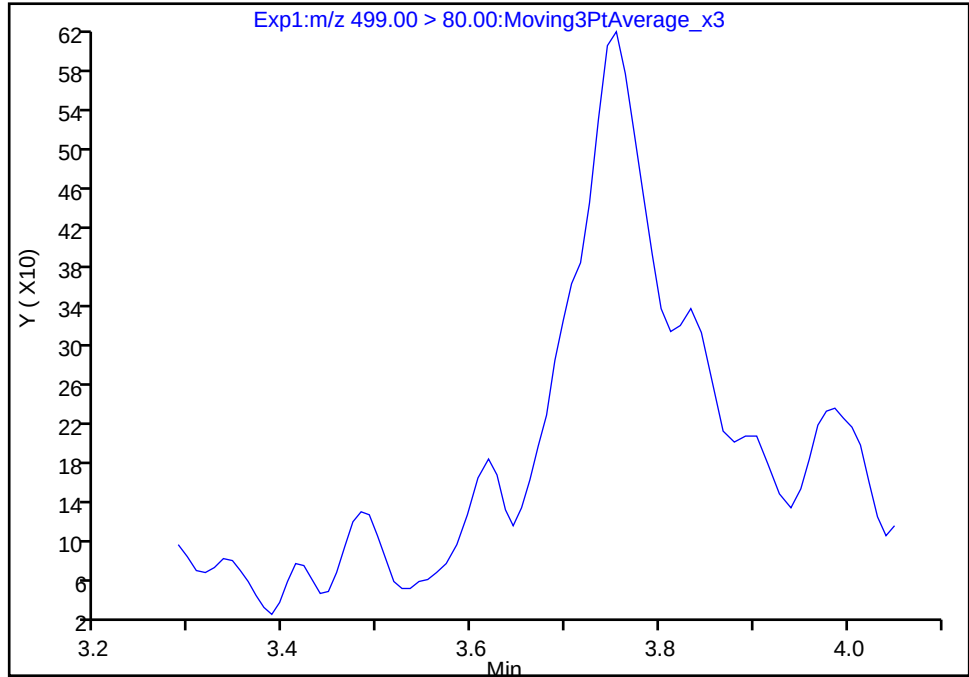
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

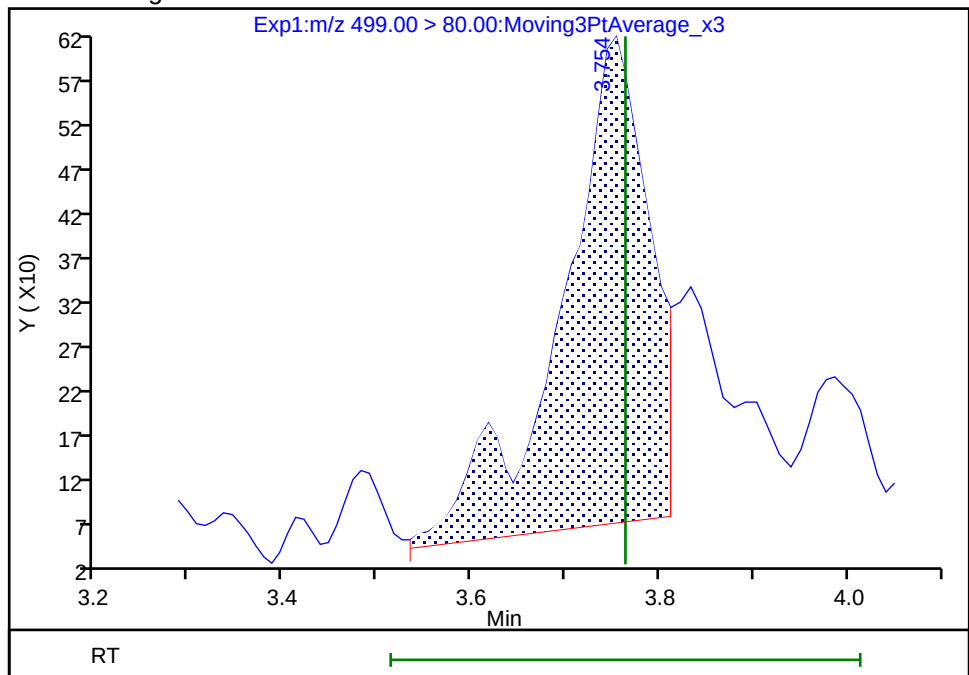
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 3505
Amount: 0.002922
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:40:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

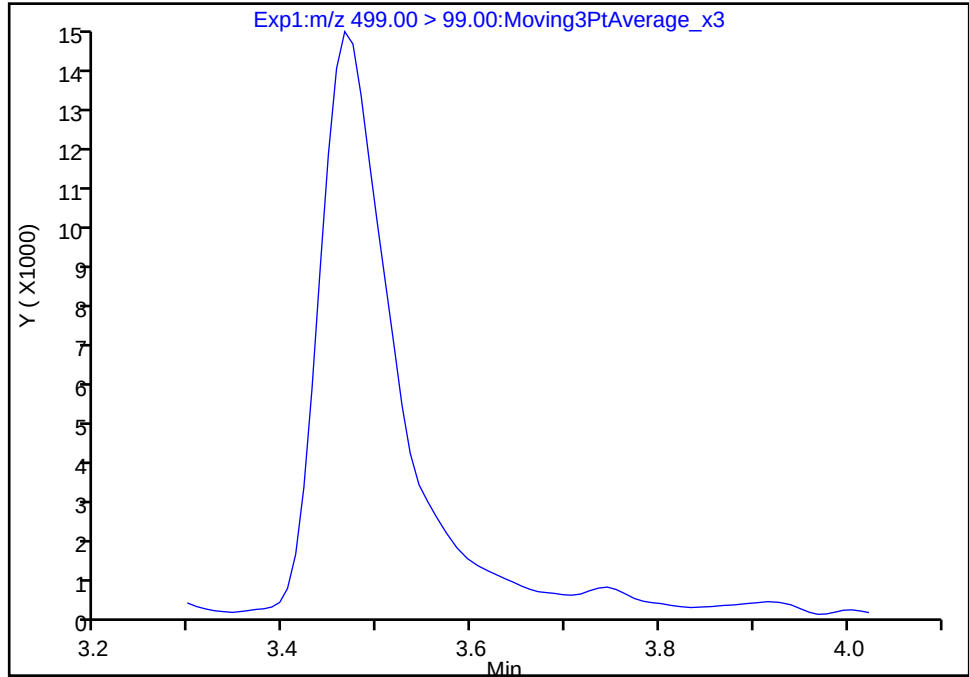
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

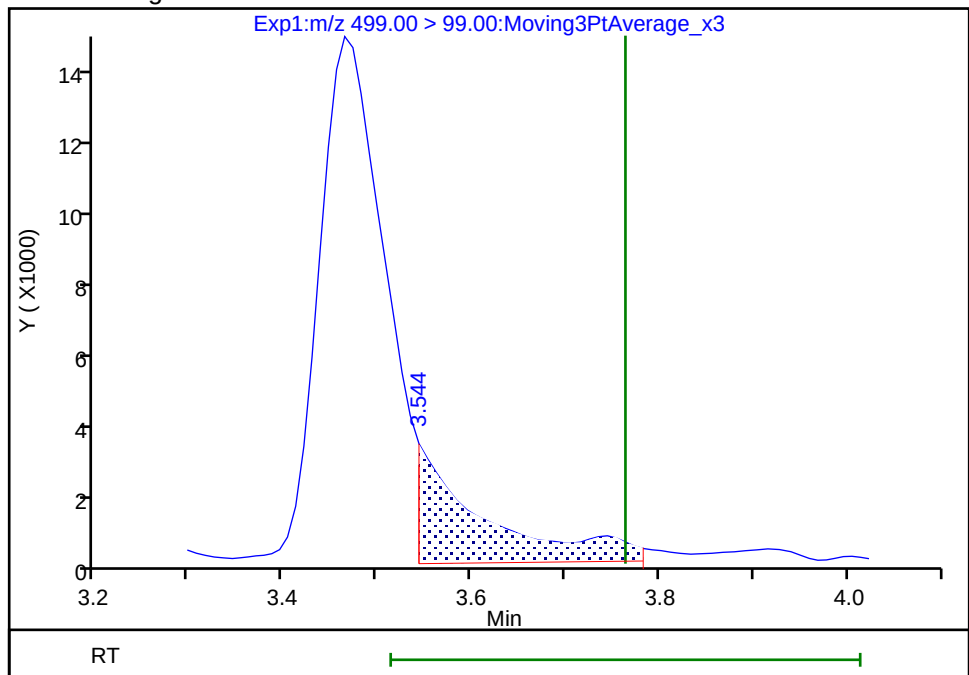
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.54
Area: 15572
Amount: 0.002922
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:40:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

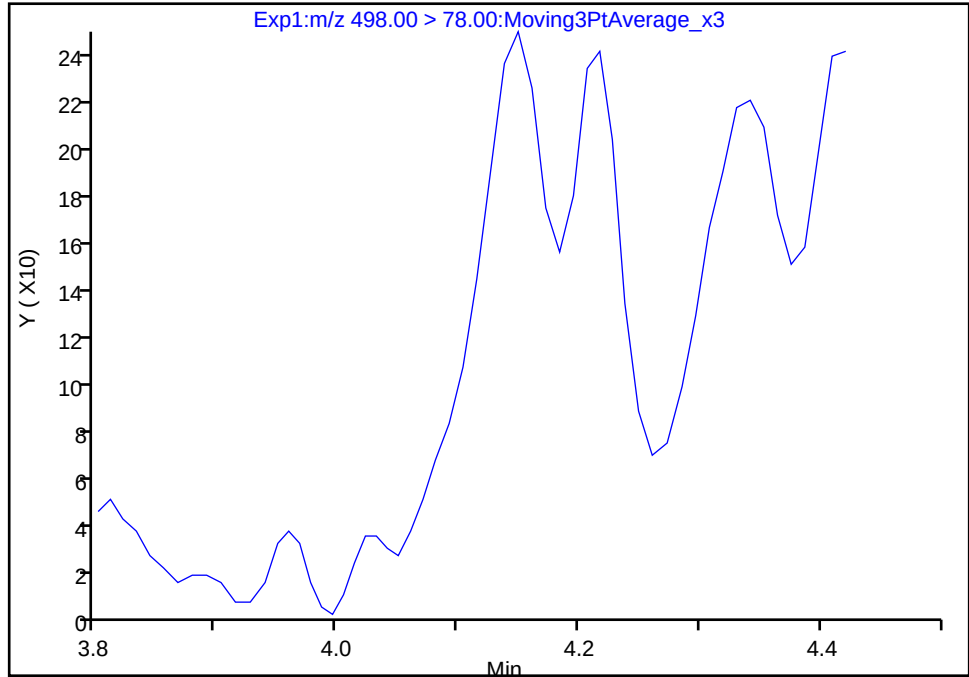
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

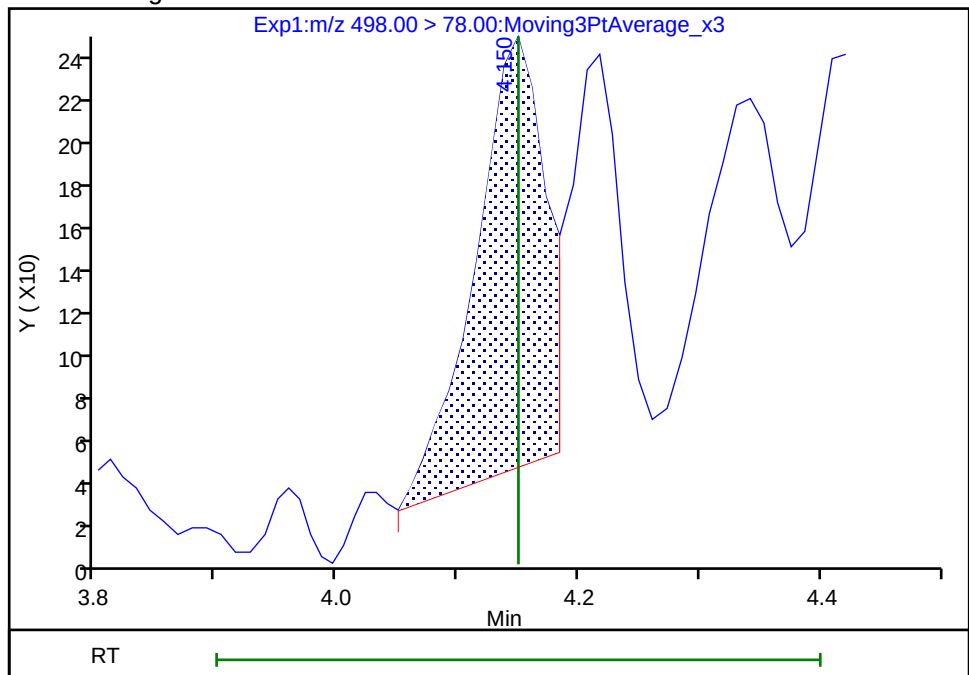
Not Detected
Expected RT: 4.15

Processing Integration Results



RT: 4.15
Area: 772
Amount: 0.000661
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:41:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

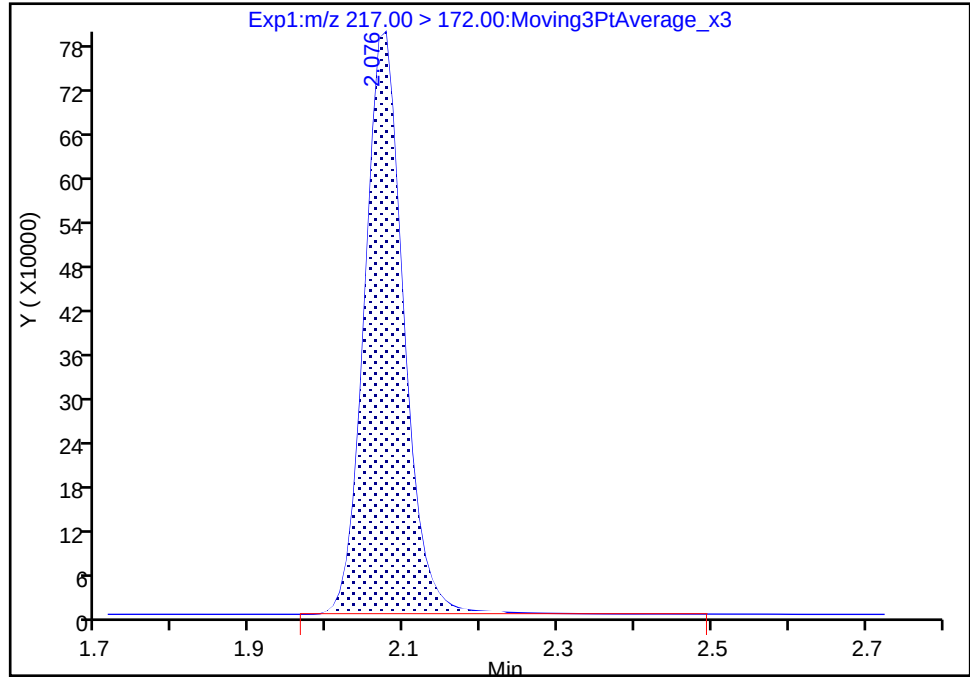
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

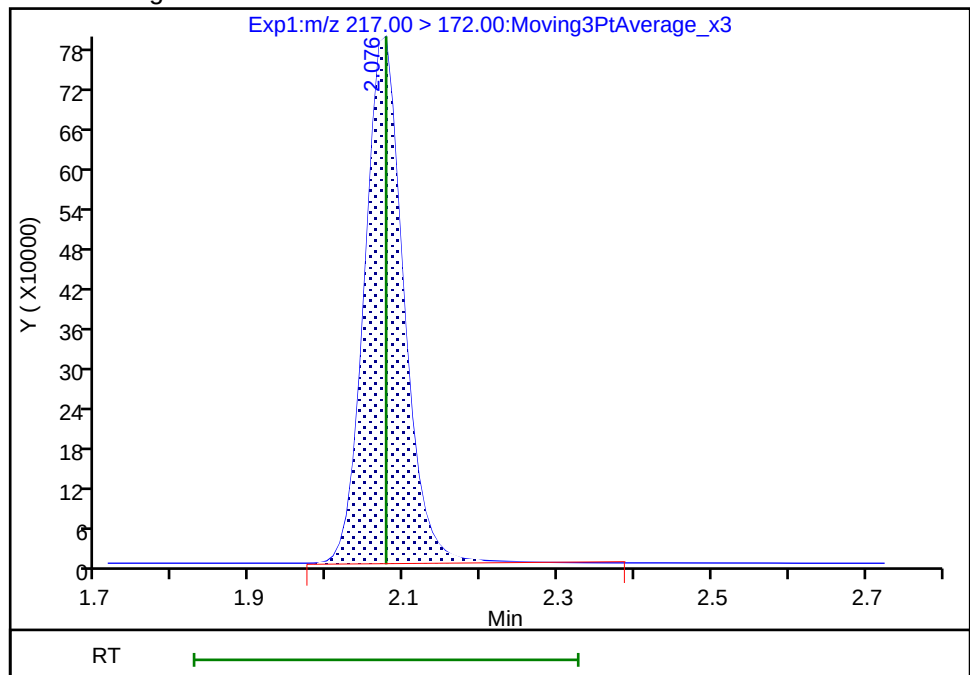
RT: 2.08
Area: 2809931
Amount: 1.096955
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2806319
Amount: 1.095545
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:37:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d

Injection Date: 04-Jan-2023 15:42:42

Instrument ID: LC812

Lims ID: MB 200-187194/1-A

Client ID:

Operator ID: lc812tech

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)

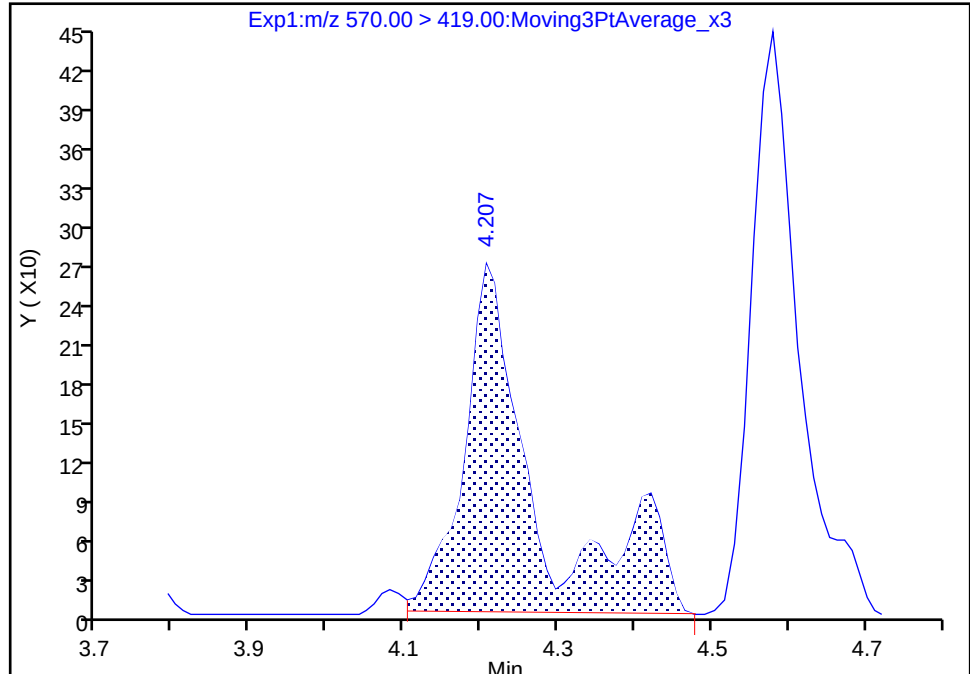
Detector: EXP1

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

Signal: 1

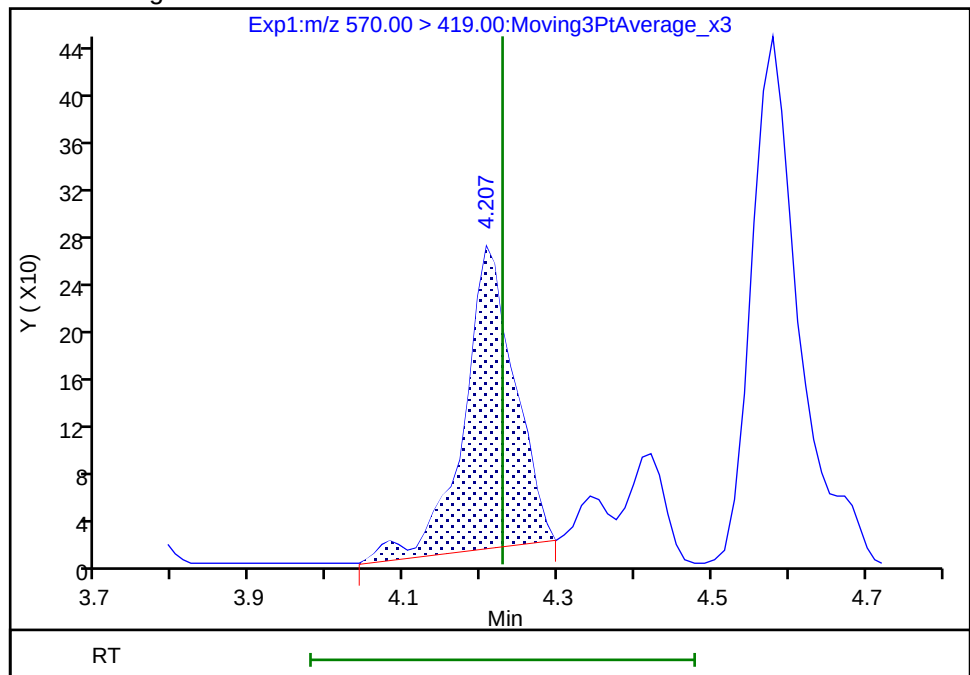
RT: 4.21
Area: 1751
Amount: -0.005943
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 1176
Amount: -0.007810
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:41:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

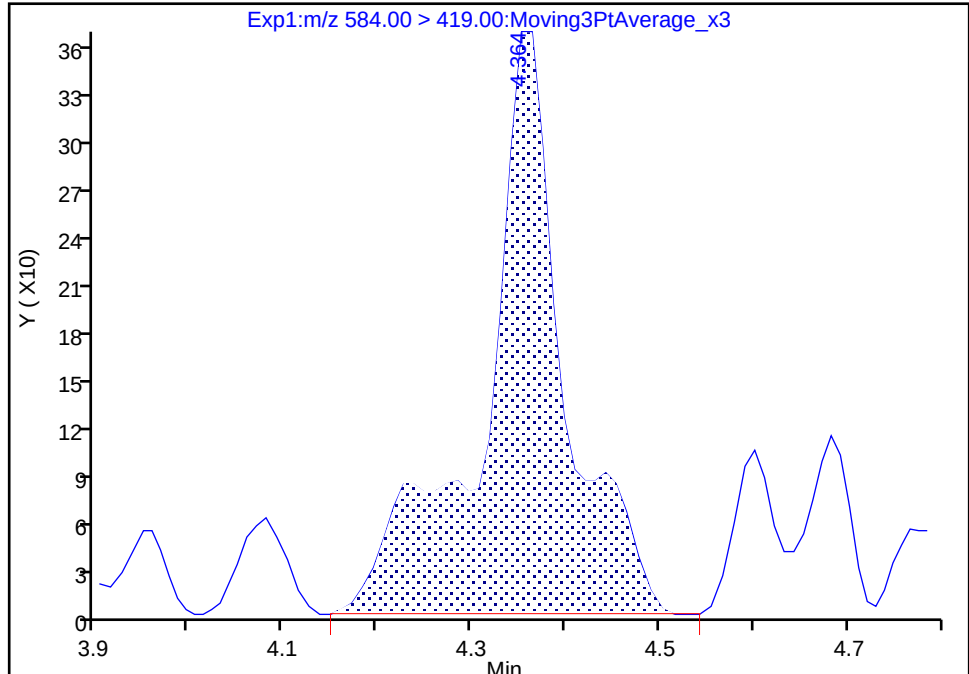
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

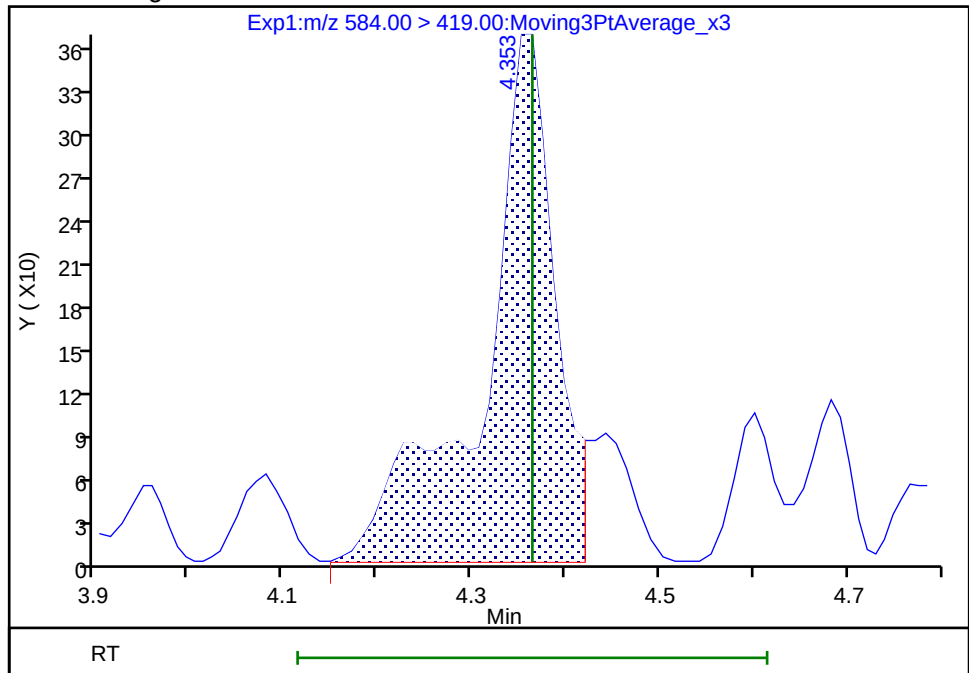
RT: 4.36
Area: 2210
Amount: 0.008227
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1928
Amount: 0.007178
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:41:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

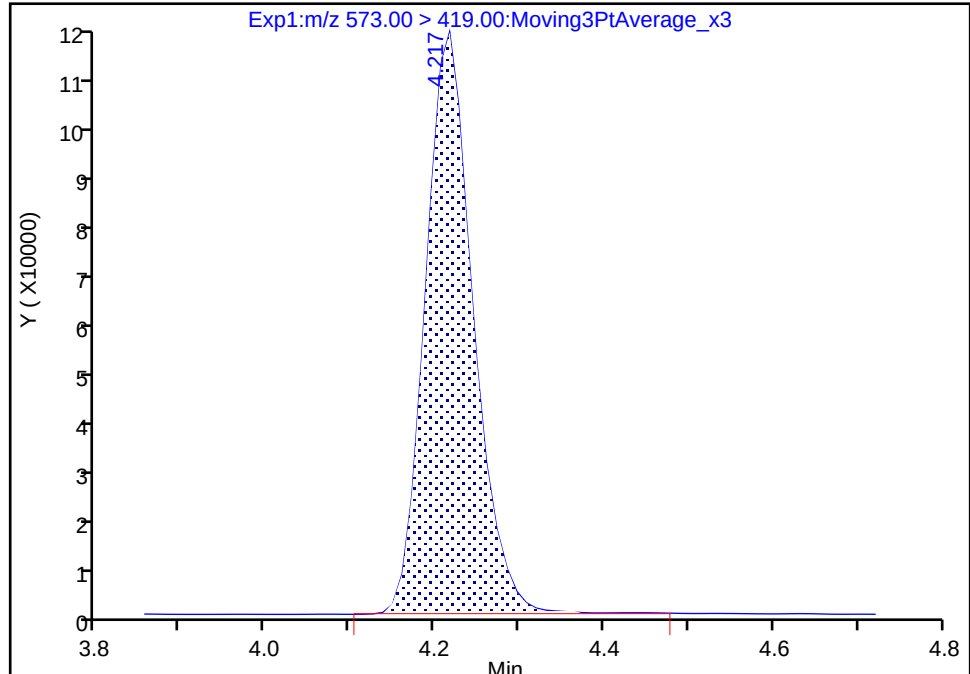
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

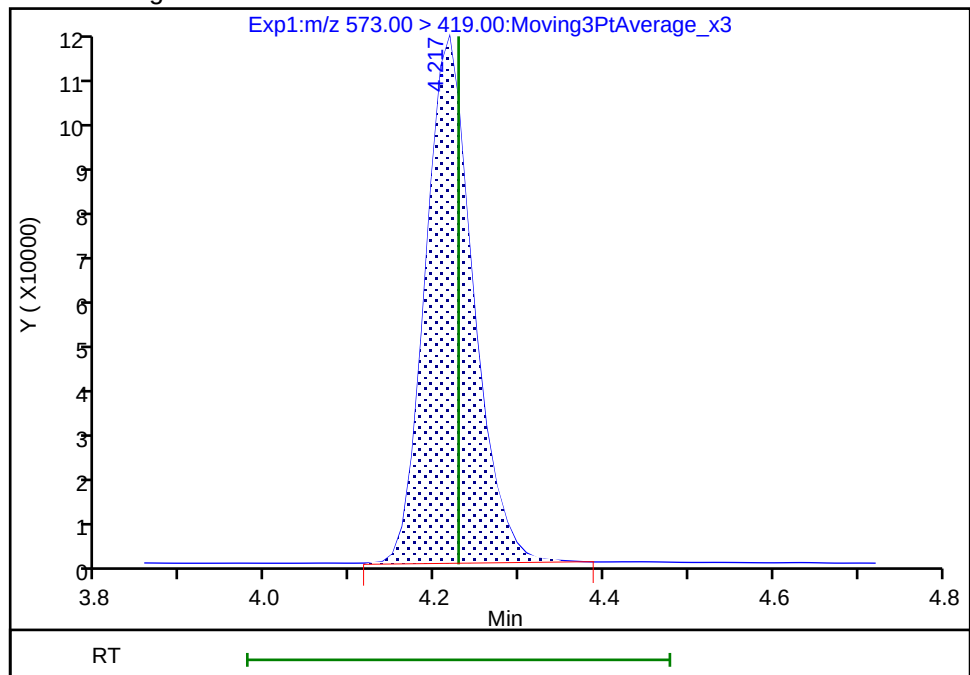
RT: 4.22
Area: 449049
Amount: 0.942245
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 447662
Amount: 0.939334
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:38:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

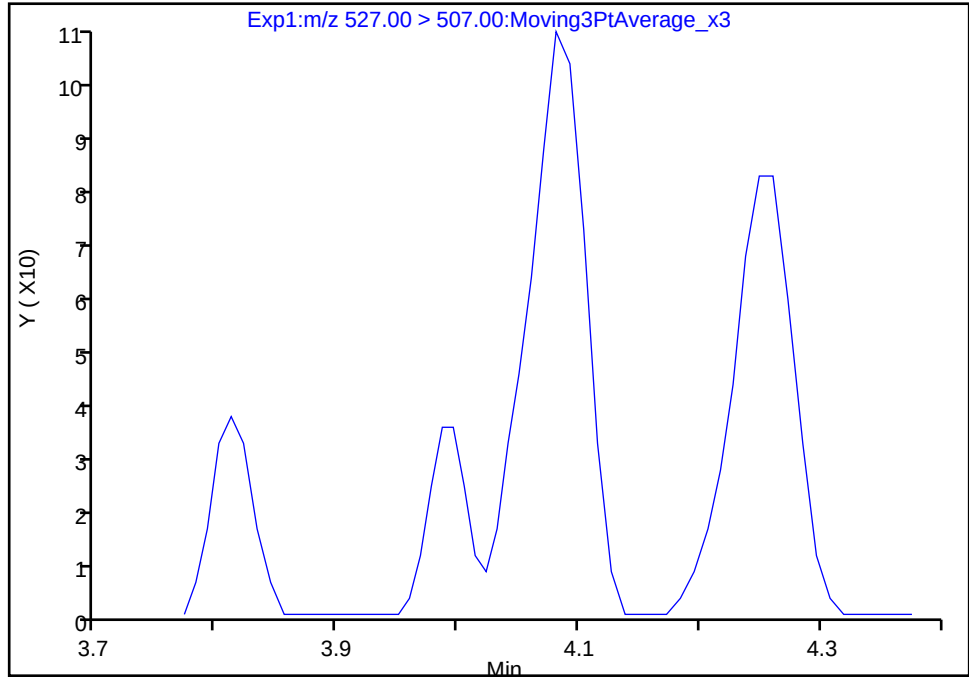
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A08.d
Injection Date: 04-Jan-2023 15:42:42 Instrument ID: LC812
Lims ID: MB 200-187194/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

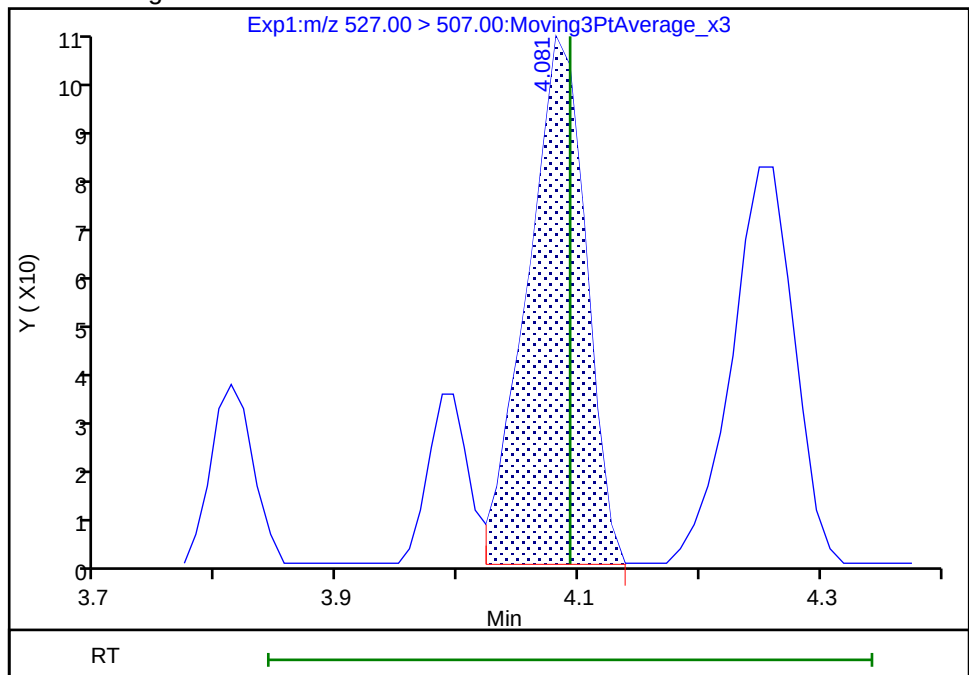
Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 365
Amount: 0.000738
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:41:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187252/4
 Matrix: Water Lab File ID: PA230104A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 01/04/2023 15:09
 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.: 187252 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
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
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.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187252/4
 Matrix: Water Lab File ID: PA230104A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 01/04/2023 15:09
 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.: 187252 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	101		50-150
STL00992	13C4 PFBA	91		50-150
STL00993	13C2 PFHxA	92		50-150
STL00996	13C2 PFDA	108		50-150
STL00997	13C2 PFUnA	107		50-150
STL00994	18O2 PFHxS	101		50-150
STL00998	13C2 PFDoA	104		50-150
STL00991	13C4 PFOS	97		50-150
STL01056	13C8 FOSA	98		50-150
STL01893	13C5 PFPeA	94		50-150
STL02116	13C2 PFTeDA	115		50-150
STL02118	d3-NMeFOSAA	95		50-150
STL02117	d5-NEtFOSAA	94		50-150
STL02279	M2-6:2 FTS	105		50-150
STL02337	13C3 PFBS	94		50-150
STL02280	M2-8:2 FTS	106		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 04-Jan-2023 15:09:59 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0053892-004 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 08:36:38 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: nampitakw

Date: 05-Jan-2023 16:08:32

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	2.076	0.0	0.607	2760670	1.13		90.5	10055	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	7768	0.003411			1.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.360	2.387	-0.027	0.690	2187945	1.18		94.2	3191	
D 47 13C3 PFBS										M
301.90 > 80.00	2.373	2.400	-0.027	0.694	2194738	1.09		93.5	154138	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.386	2.400	-0.014	1.006	2343	0.001085	Target=2.09		2.7	M
298.90 > 99.00	2.373	2.400	-0.027	1.000	1402		1.67(1.04-3.13)		1.0	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.652	2.689	-0.037	1.000	412	0.000823			4.5	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.652	2.689	-0.037	0.775	189810	1.06		91.1	197	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.689	2.725	-0.036	0.786	2245453	1.15		92.3	3916	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.822	2.835	-0.013	1.009	96	0.000264			1.2	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.798	2.835	-0.037	0.818	430029	1.25		100	2174	
D 11 18O2 PFHxS										
403.00 > 84.00	3.054	3.088	-0.034	0.893	1750980	1.19		101	2539	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.065	3.088	-0.023	1.004	6704	0.004011	Target=3.66		20.0	M
399.00 > 99.00	3.065	3.088	-0.023	1.004	2377		2.82(1.83-5.49)		2.1	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.065	3.099	-0.034	0.896	2495776	1.25		99.7	3384	

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	3.412	3.439	-0.027	0.997	307911	1.25		105	951	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.420	3.439	-0.019	1.003	862	-0.0103			0.8	
D 14 13C4 PFOA										
417.00 > 372.00	3.420	3.448	-0.028	1.000	2804088	1.25		99.6	3128	
* 62 13C2 PFOA										
415.00 > 370.00	3.420	3.448	-0.028		2718743	1.25			4421	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.386	3.448	-0.062	0.990	4514	0.001882	Target=2.79		0.3	M
413.00 > 169.00	3.412	3.448	-0.036	0.997	1513		2.98(1.40-4.19)		2.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.743	3.764	-0.021	1.095	1156291	1.16		97.0	3884	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.743	3.764	-0.021	1.000	3077	0.002615	Target=5.11		5.2	M
499.00 > 99.00	3.743	3.764	-0.021	1.000	862		3.57(2.55-7.66)		2.0	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.763	3.783	-0.020	1.000	2272	0.000994	Target=8.55		0.7	M
463.00 > 169.00	3.763	3.783	-0.020	1.000	276		8.23(4.28-12.83)		4.1	M
D 19 13C5 PFNA										
468.00 > 423.00	3.763	3.783	-0.020	1.100	2755273	1.26		101	5037	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.914	3.928	-0.014	1.046	1014	0.000375			6.0	M
68 Perfluorononanesulfonic acid										RM
549.00 > 80.00	4.023	4.050	-0.027	1.075	187	0.000211	Target=2.53		2.2	RM
549.00 > 99.00	4.023	4.050	-0.027	1.075	366		0.51(1.27-3.80)		3.2	M
D 23 13C2 PFDA										
515.00 > 470.00	4.061	4.081	-0.020	1.187	3005124	1.35		108	5455	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.071	4.081	-0.010	1.003	2511	0.000963	Target=10.26		1.4	M
513.00 > 169.00	4.081	4.081	0.0	1.005	339		7.41(5.13-15.38)		1.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.071	4.093	-0.022	1.190	381991	1.27		106	1766	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.071	4.093	-0.022	1.000	504	0.000977			5.8	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.150	0.0	1.003	1480	0.000792			8.1	M
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.210	2236044	1.22		97.9	2329	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.207	4.228	-0.021	1.230	538973	1.19		95.0	2393	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.207	4.228	-0.021	1.000	188	-0.0111			0.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.331	4.353	-0.022	1.266	2737157	1.34		107	3479	

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	4.331	4.353	-0.022	1.000	2395	0.001085	Target=9.88	1.2		M
563.00 > 169.00	4.353	4.353	0.0	1.005	361		6.63(4.94-14.82)	4.1		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.342	4.365	-0.023	1.000	43	0.000114		1.0		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.342	4.365	-0.023	1.269	527465	1.18		94.4	1238	
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.432	4.454	-0.022	1.184	911	0.000219		4.9		M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.567	4.591	-0.024	1.000	2855	0.001241	Target=7.77	0.4		M
613.00 > 169.00	4.567	4.591	-0.024	1.000	463		6.17(3.89-11.66)	5.9		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.567	4.591	-0.024	1.335	2713693	1.30		104	4040	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.982	5.012	-0.030	1.000	477	0.001682	Target=0.89	4.6		M
713.00 > 219.00	4.972	5.012	-0.040	0.998	455		1.05(0.44-1.33)	5.4		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.982	5.012	-0.030	1.457	2589217	1.44		115	4730	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.333	5.367	-0.034	1.000	28200	-0.004920	Target=5.65	3.2		
813.00 > 169.00	5.333	5.367	-0.034	1.000	3878		7.27(2.82-8.47)	33.5		
D 44 13C2 PFHxDA										
815.00 > 770.00	5.333	5.367	-0.034	1.559	3152685	1.42		113	5191	

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: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d

Injection Date: 04-Jan-2023 15:09:59

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

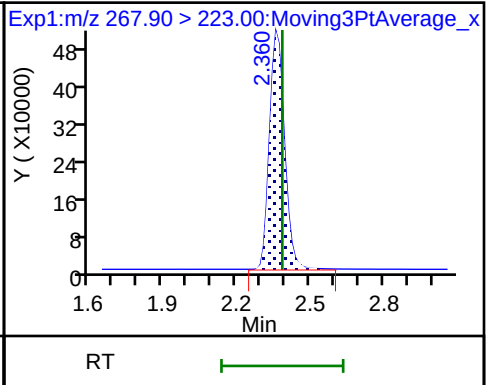
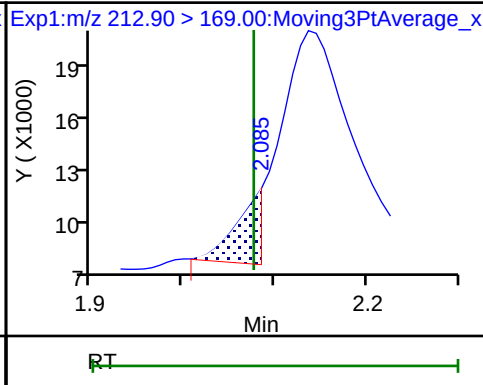
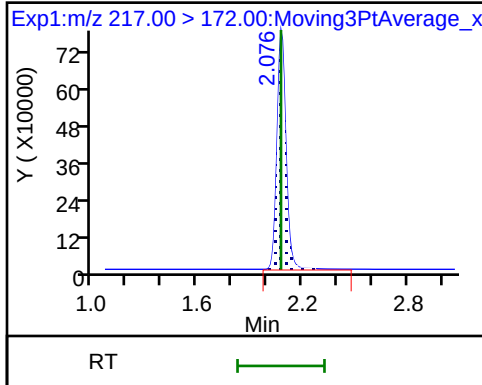
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

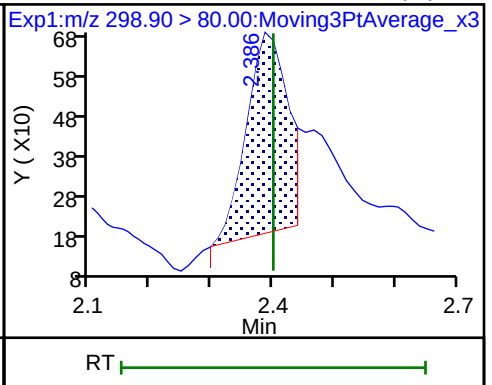
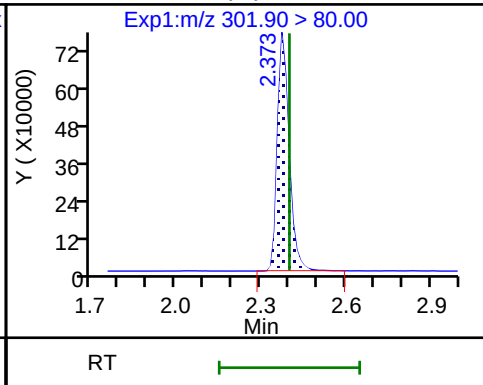
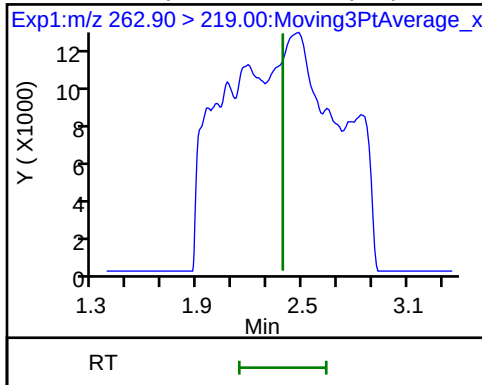
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS (M)

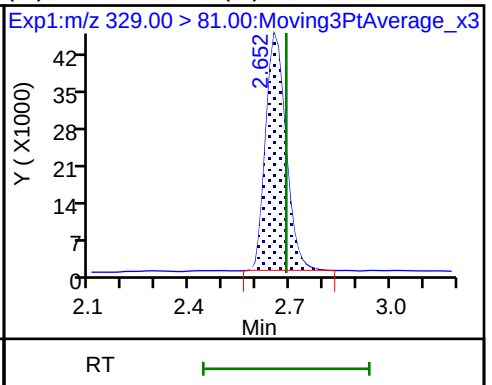
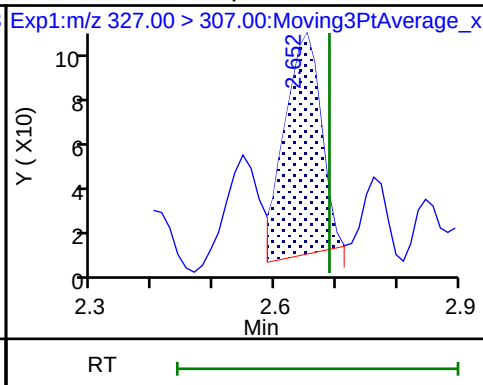
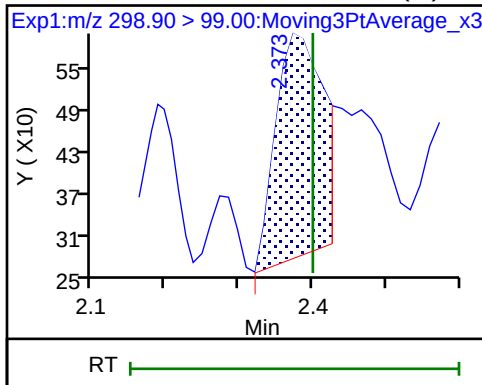
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonate (M)

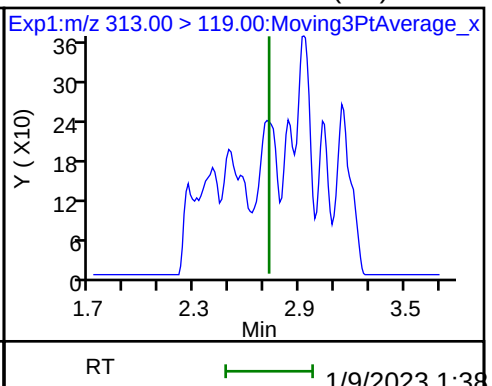
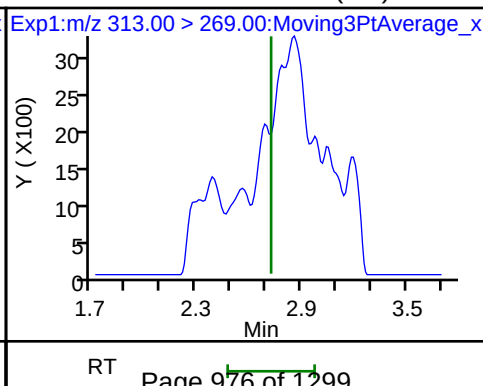
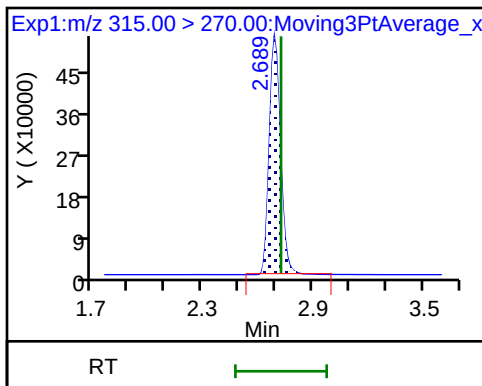
D 50 M2-4:2 FTS (M)



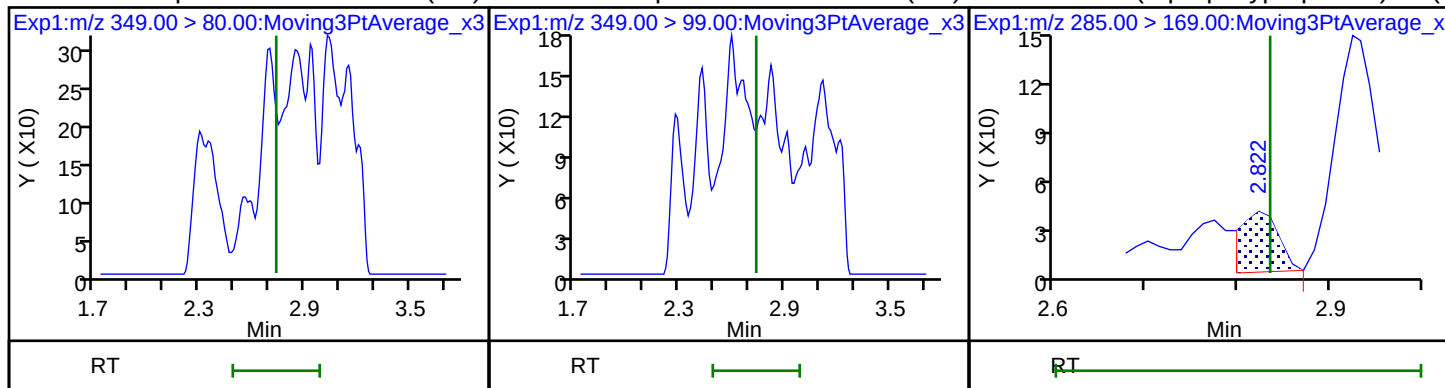
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



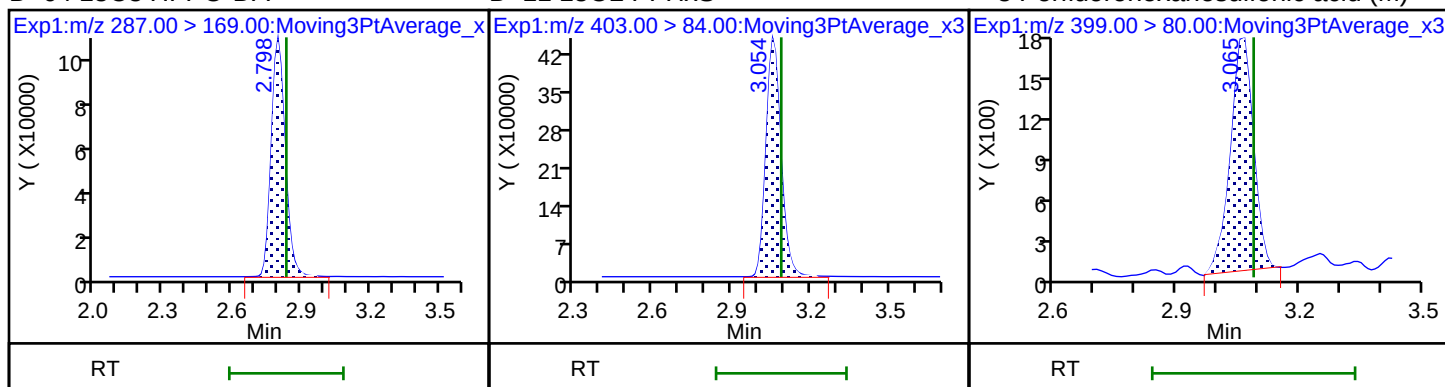
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

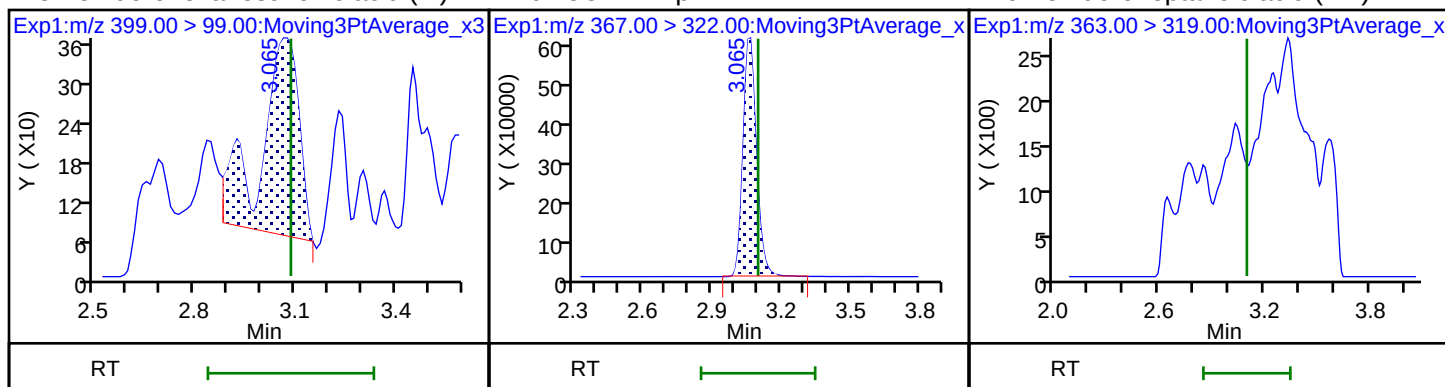
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

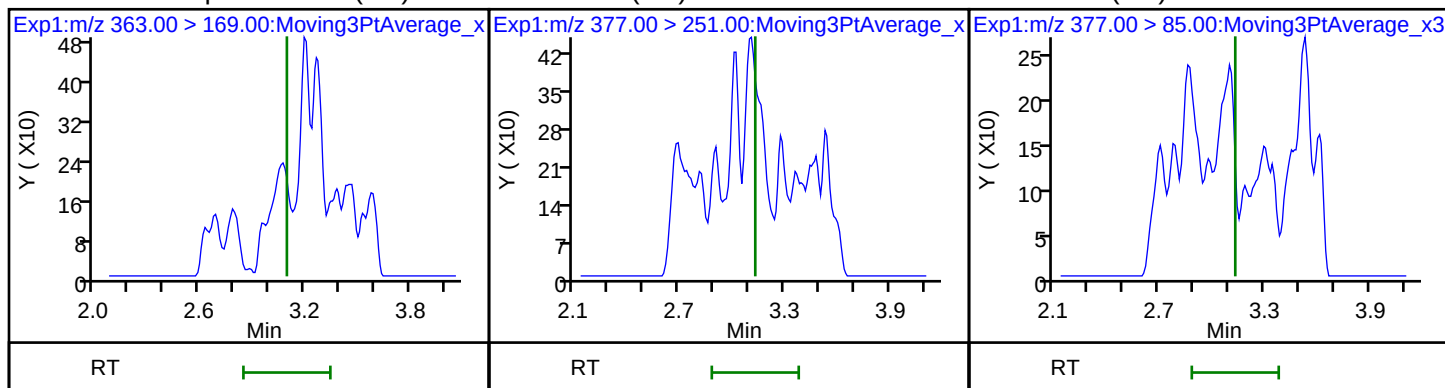
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

77 DONA (ND)

77 DONA (ND)



D 12 M2-6:2 FTS

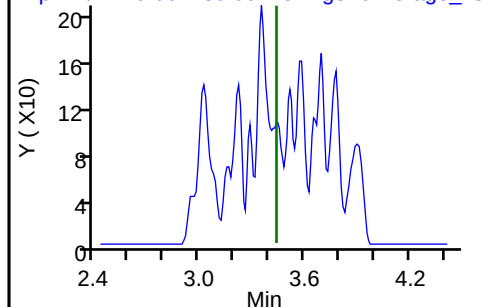
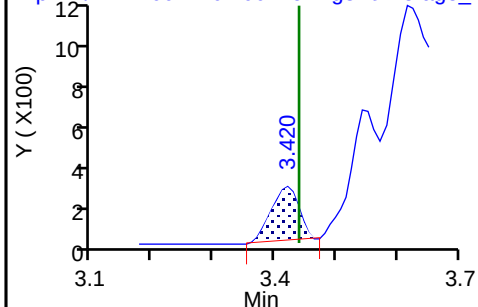
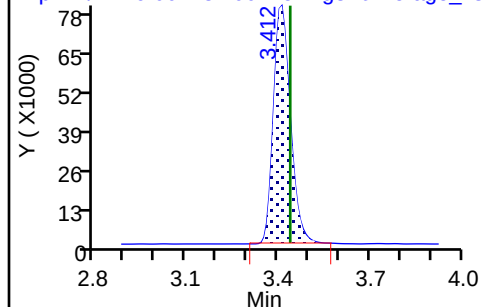
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)

Exp1:m/z 429.00 > 81.00:Moving3PtAverage_x3

Exp1:m/z 427.00 > 407.00:Moving3PtAverage_x

Exp1:m/z 449.00 > 80.00:Moving3PtAverage_x3



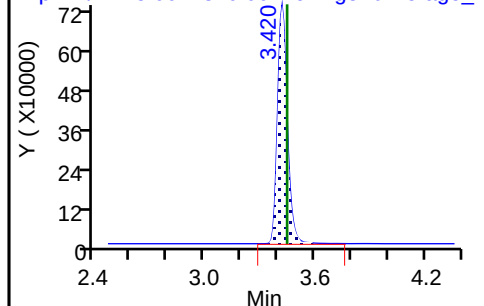
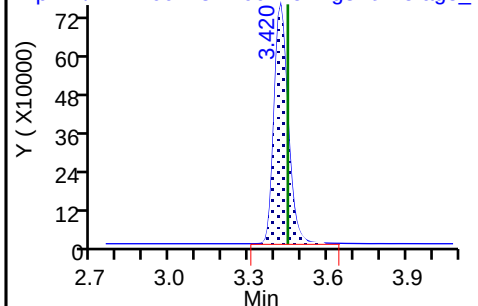
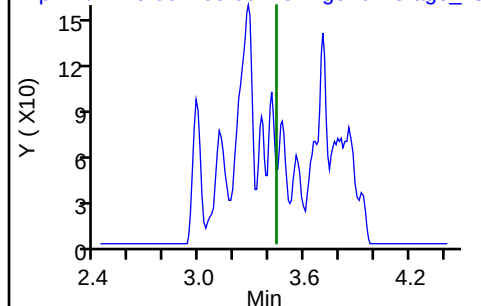
16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

* 62 13C2 PFOA

Exp1:m/z 449.00 > 99.00:Moving3PtAverage_x3

Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x

Exp1:m/z 415.00 > 370.00:Moving3PtAverage_x



15 Perfluorooctanoic acid (M)

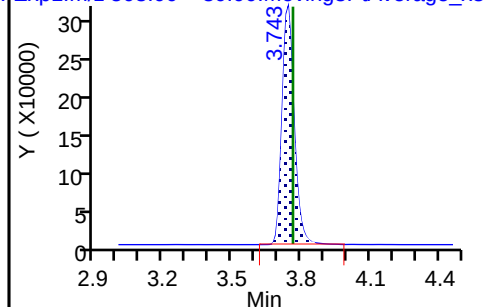
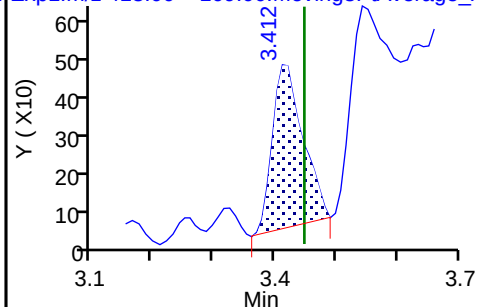
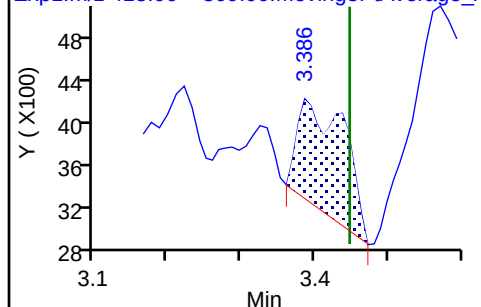
15 Perfluorooctanoic acid (M)

D 18 13C4 PFOS

Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x

Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x

Exp1:m/z 503.00 > 80.00:Moving3PtAverage_x3



17 Perfluorooctanesulfonic acid (M)

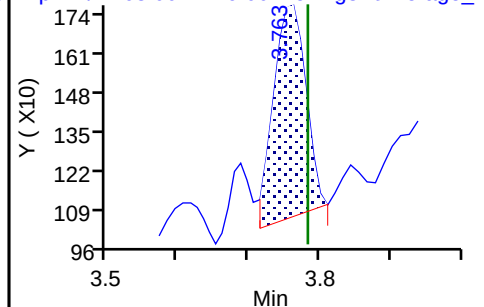
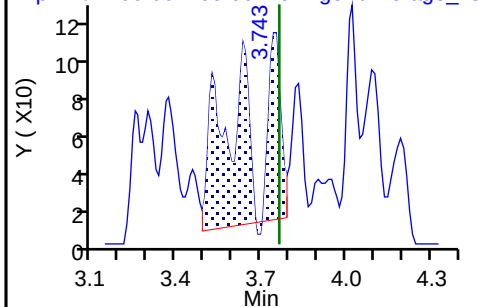
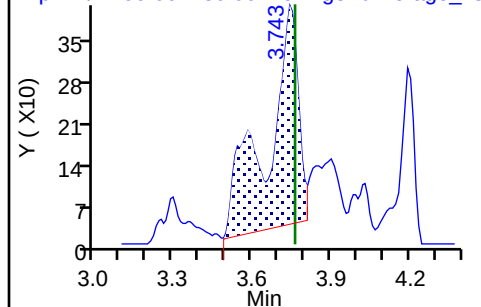
17 Perfluorooctanesulfonic acid (M)

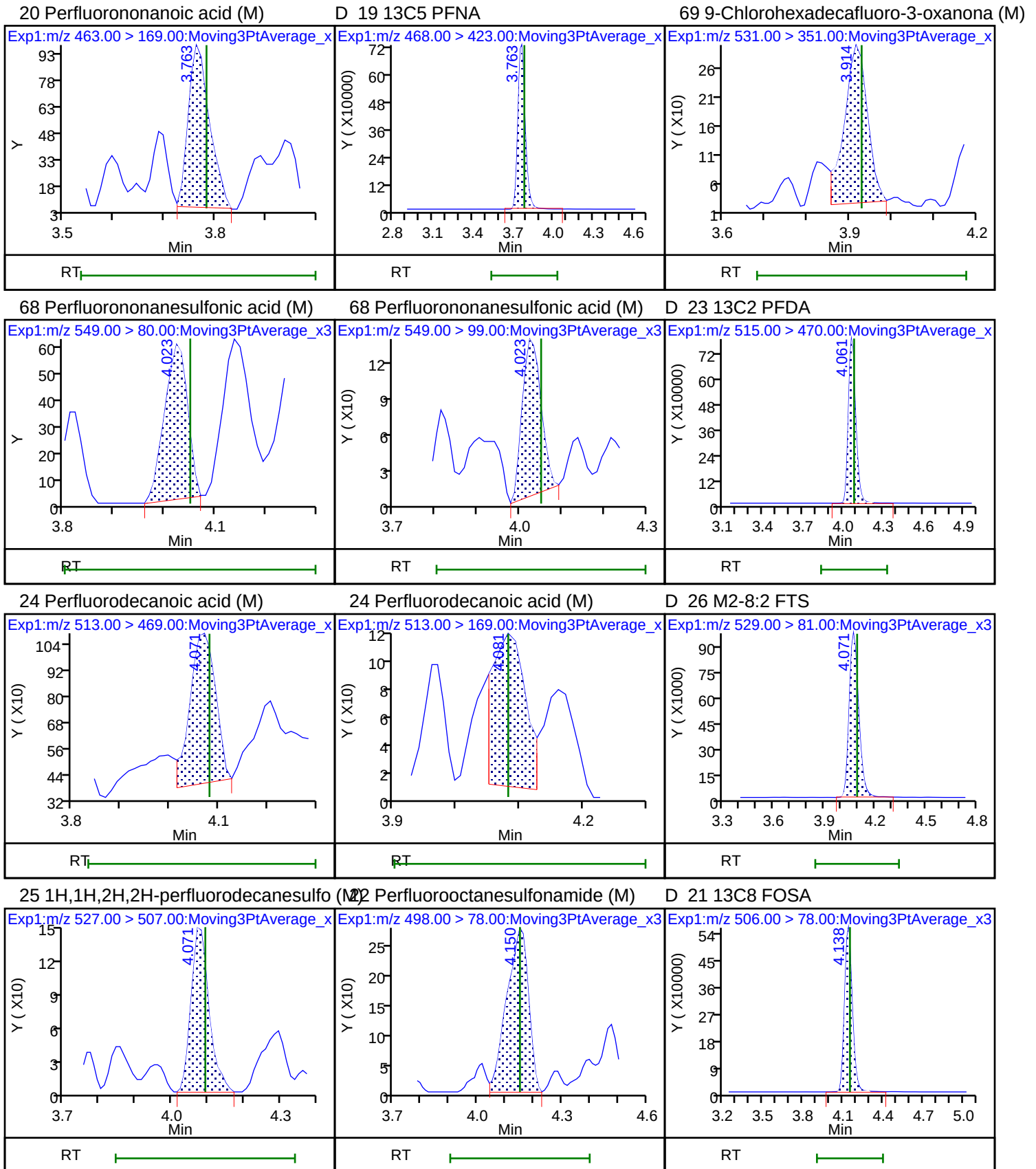
20 Perfluorononanoic acid (M)

Exp1:m/z 499.00 > 80.00:Moving3PtAverage_x3

Exp1:m/z 499.00 > 99.00:Moving3PtAverage_x3

Exp1:m/z 463.00 > 419.00:Moving3PtAverage_x

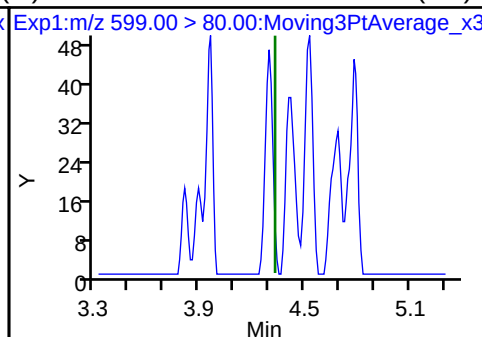
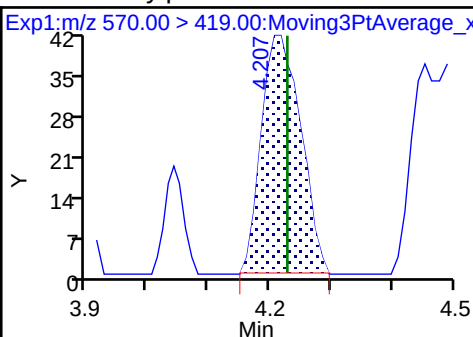
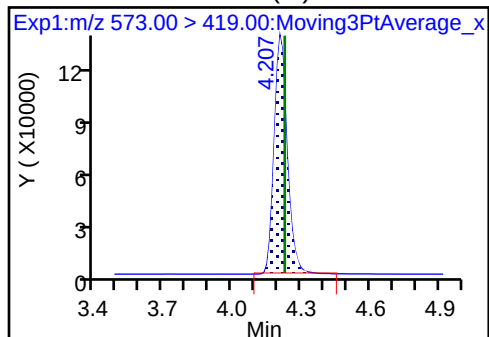




D 27 d3-NMeFOSAA (M)

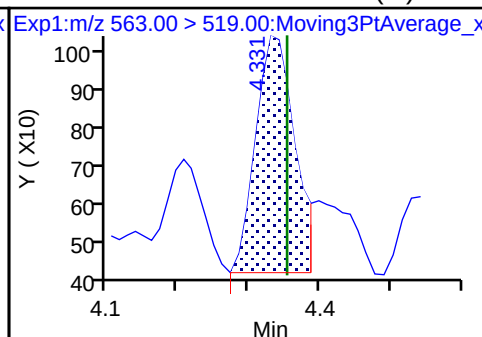
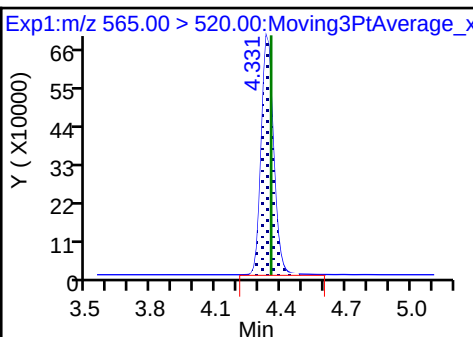
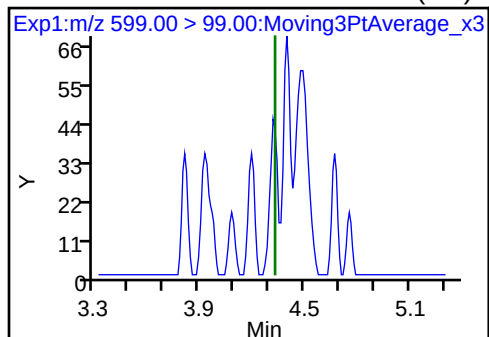
28 N-methylperfluorooctanesulfonami (M)

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

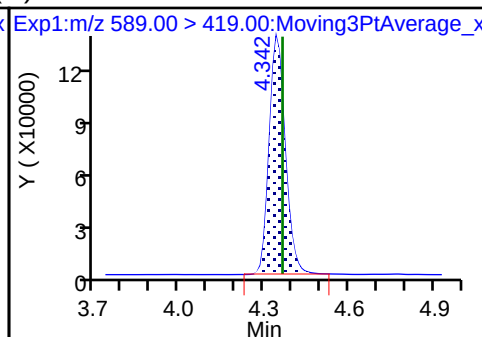
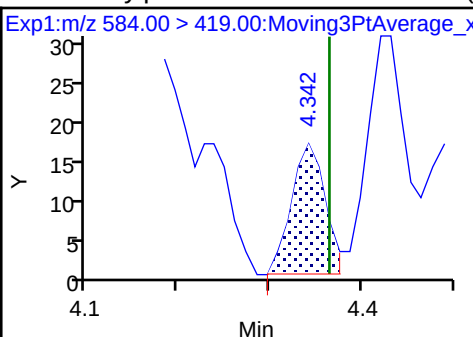
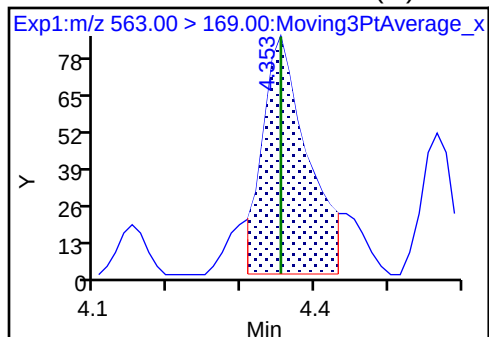
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

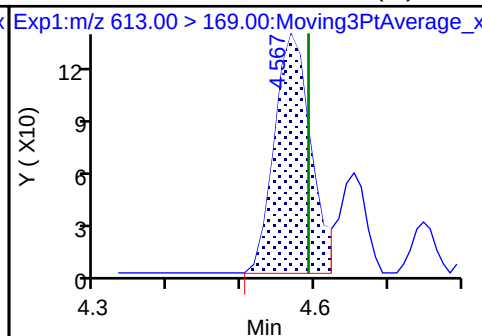
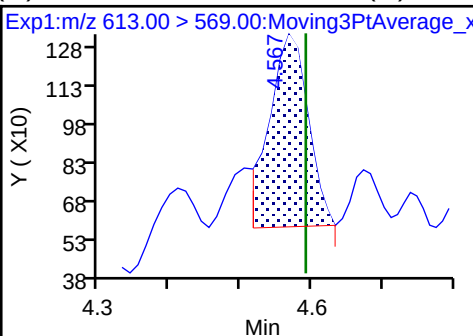
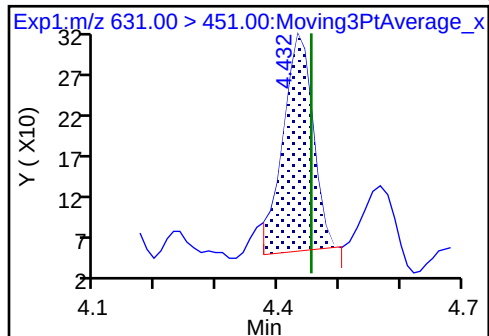
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

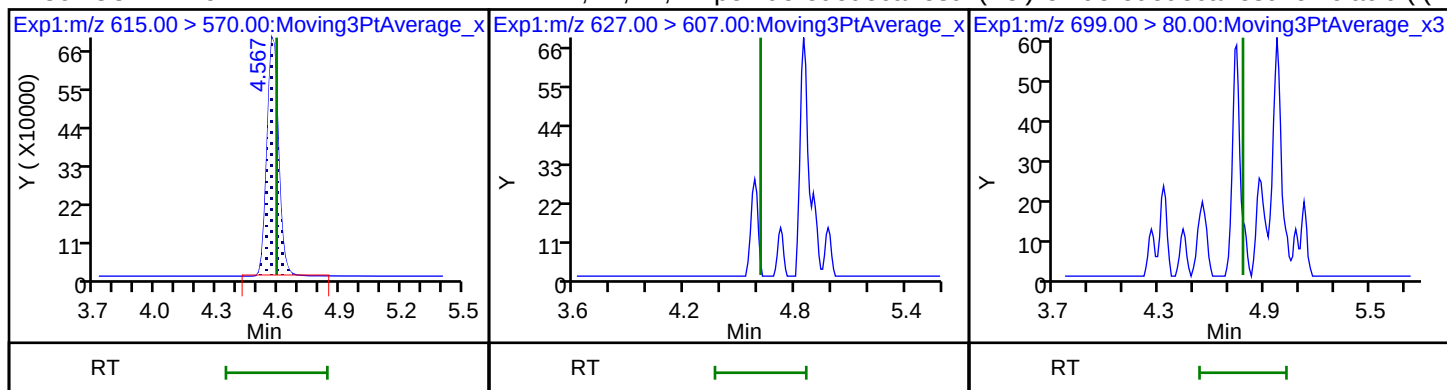
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



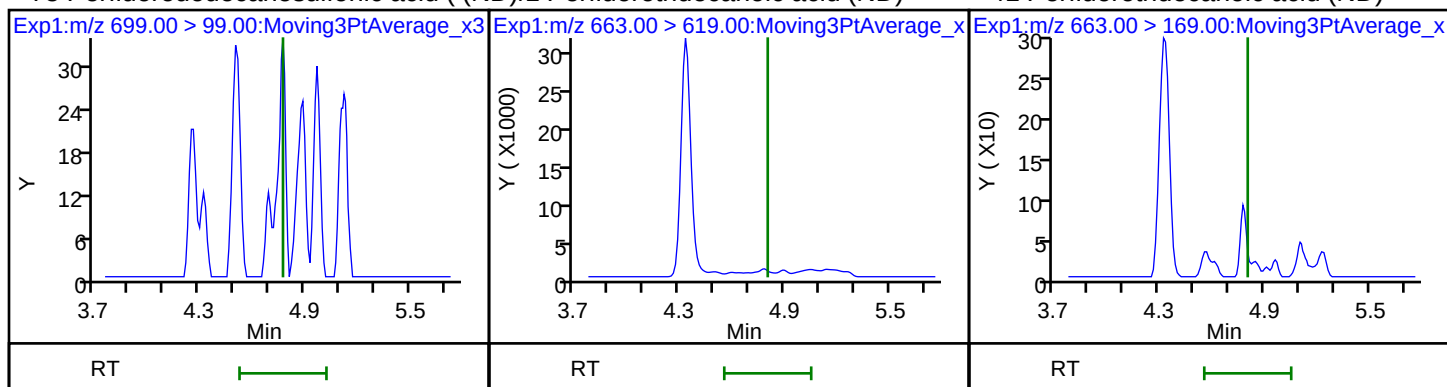
D 36 13C2 PFD0A

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



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)

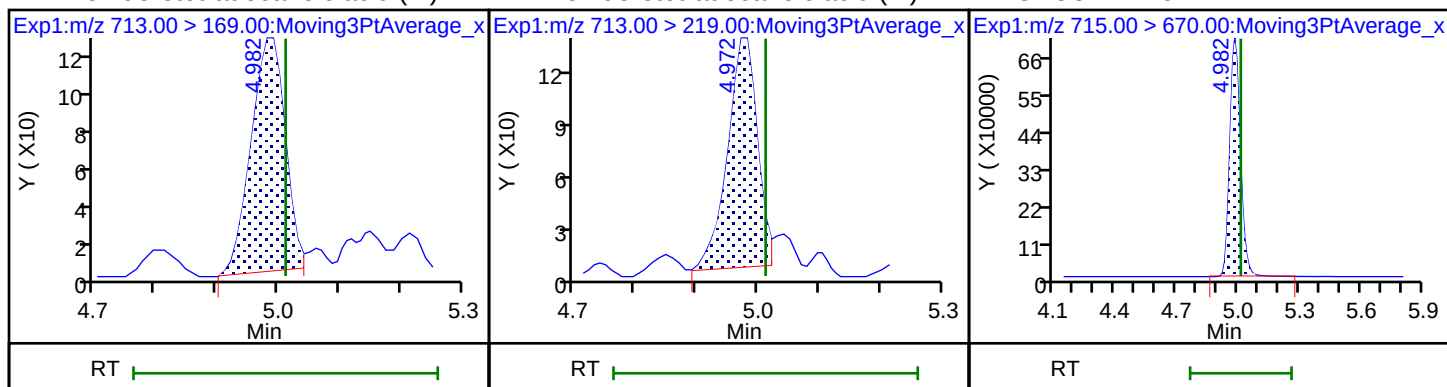
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

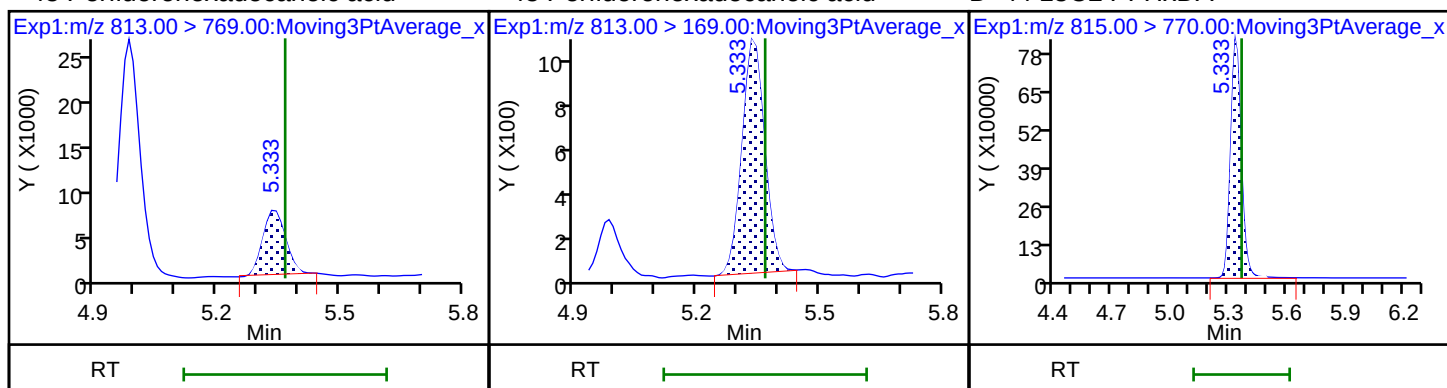
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

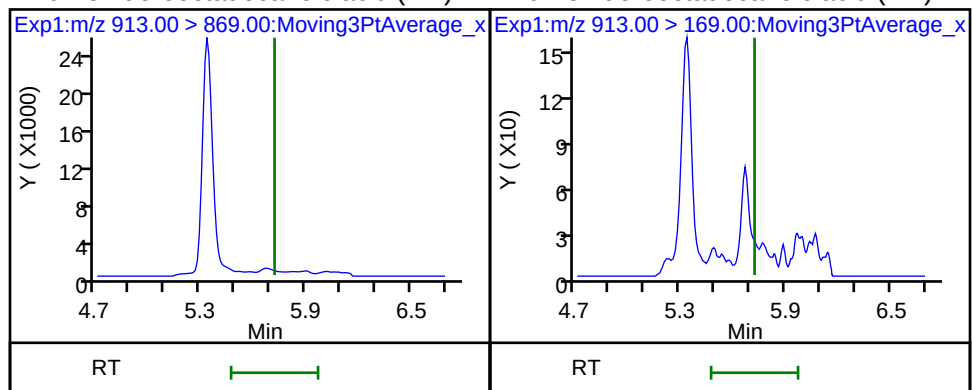
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

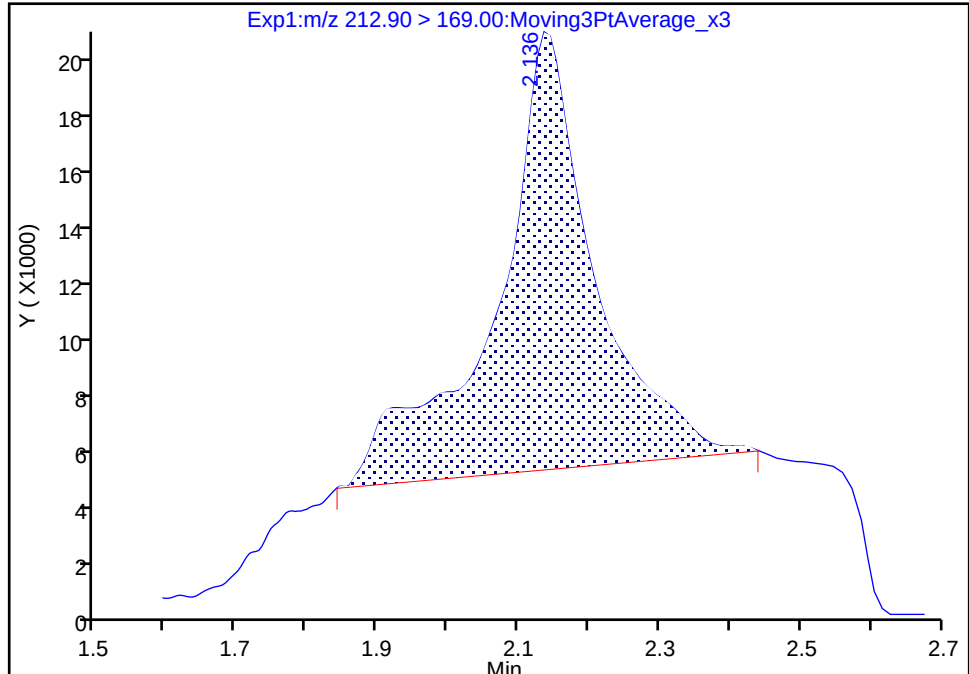
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

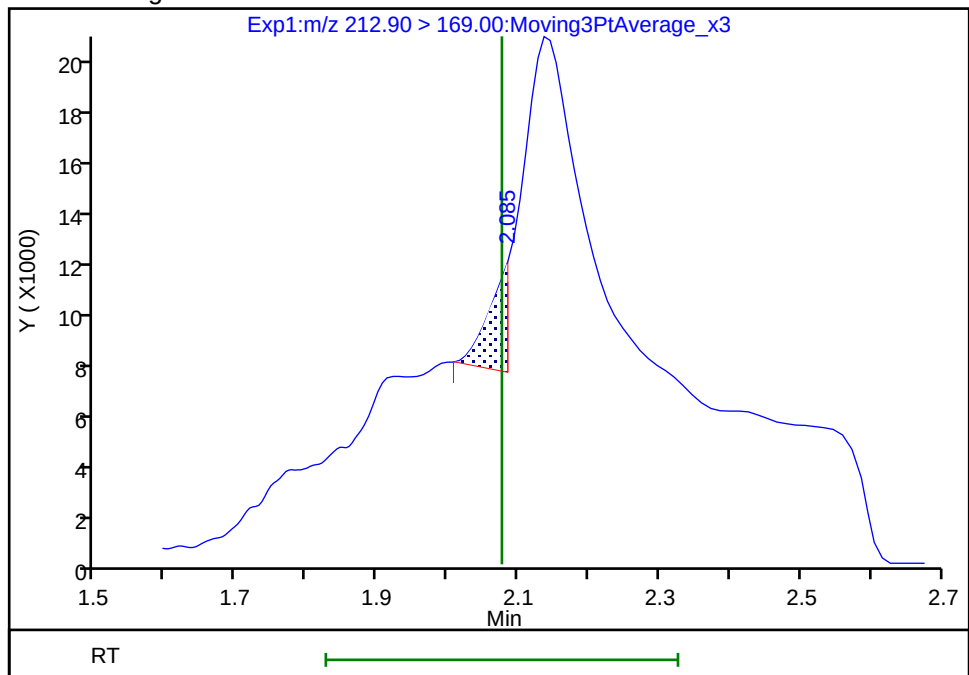
RT: 2.14
Area: 152312
Amount: 0.066879
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 7768
Amount: 0.003411
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:10:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d		
Injection Date:	04-Jan-2023 15:09:59	Instrument ID:	LC812
Lims ID:	CCB		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	1 Workli
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

Dil. Factor: 1.0000

Limit Group: LC PFC ICAL

Detector EXP1

Signal: 2

Not Detected
Expected RT: 3.45

Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x3

Min	Y (X10)
3.10	2
3.15	7
3.20	1
3.25	8
3.30	4
3.35	10
3.40	3
3.45	48
3.50	8
3.55	68
3.60	50
3.65	53
3.70	58
3.75	16

RT: 3.41
Area: 1513
Amount: 0.001882
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:12:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

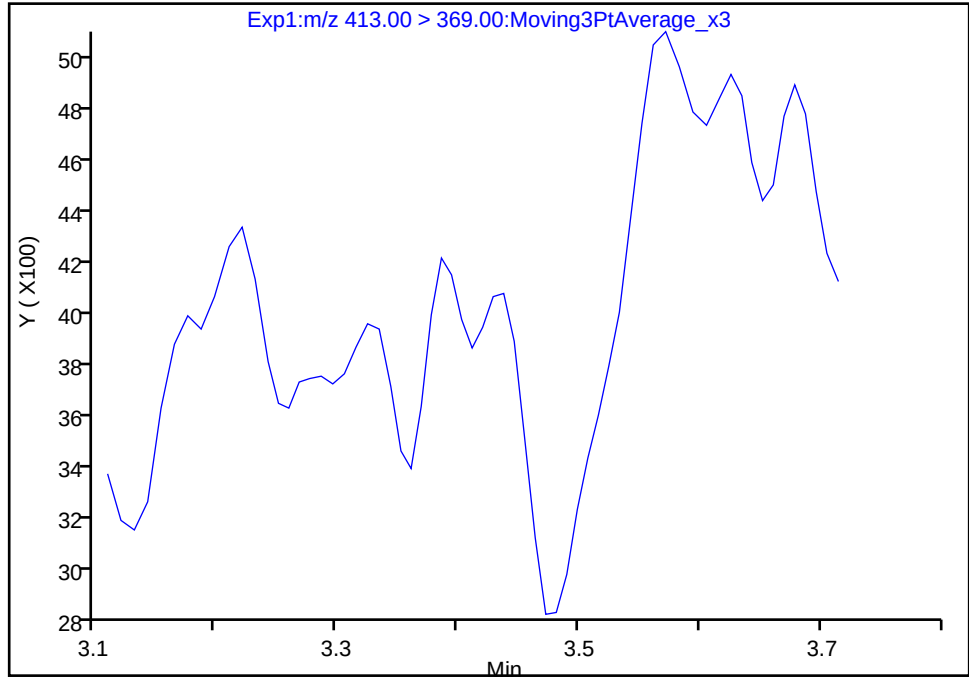
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

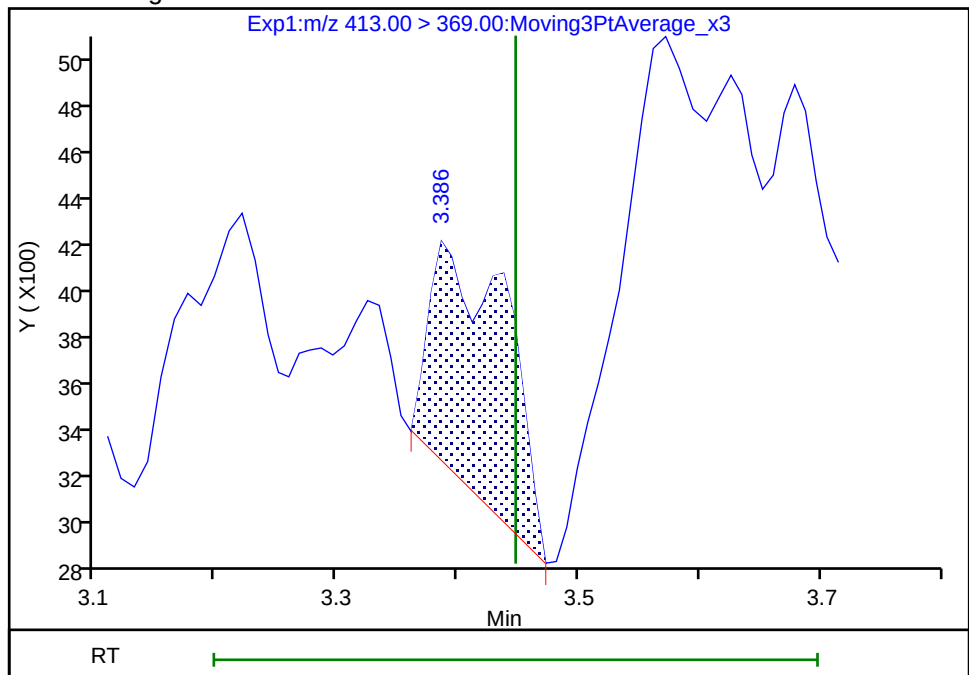
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.39
Area: 4514
Amount: 0.001882
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:12:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

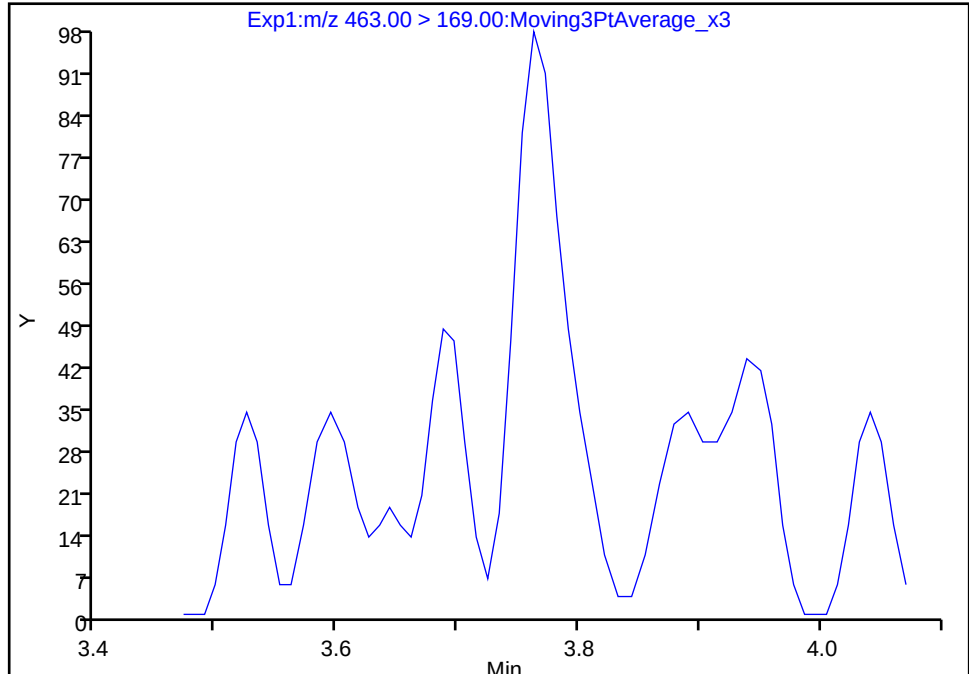
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

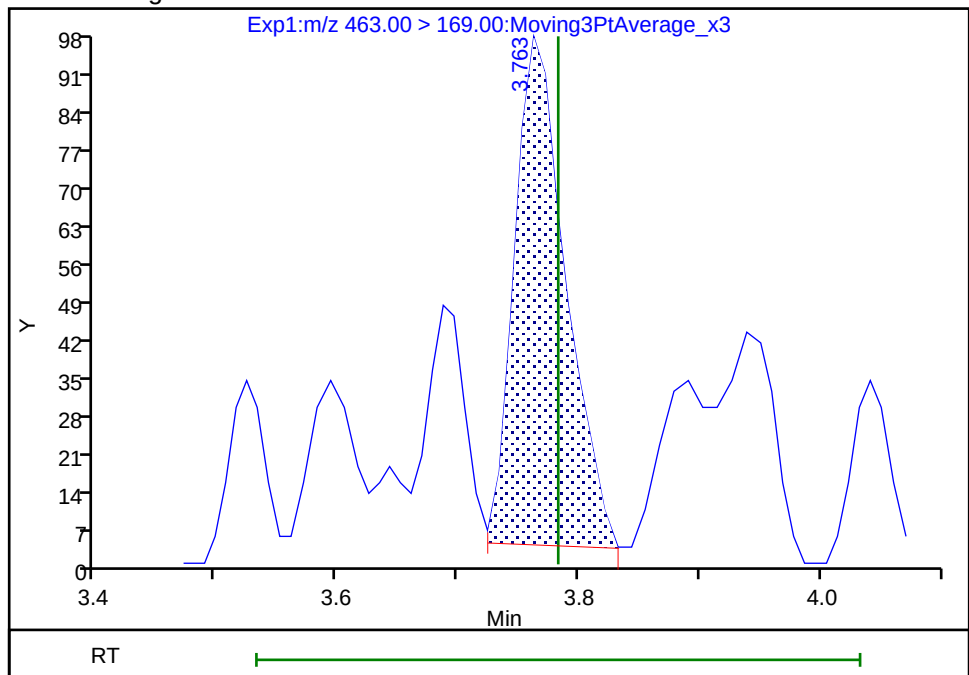
Signal: 2

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.76
Area: 276
Amount: 0.000994
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:13:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

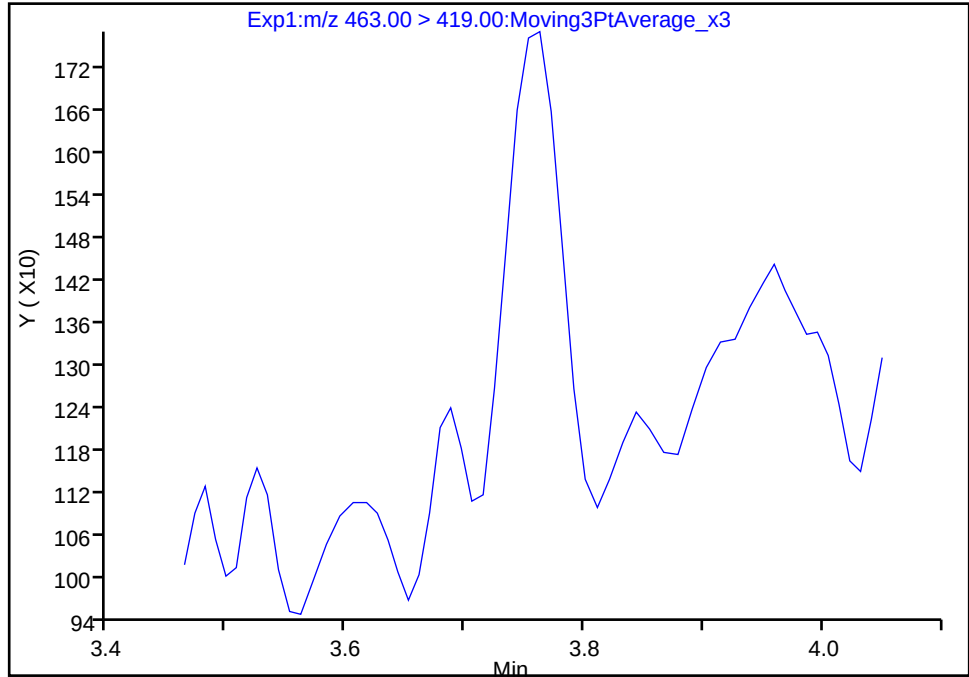
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

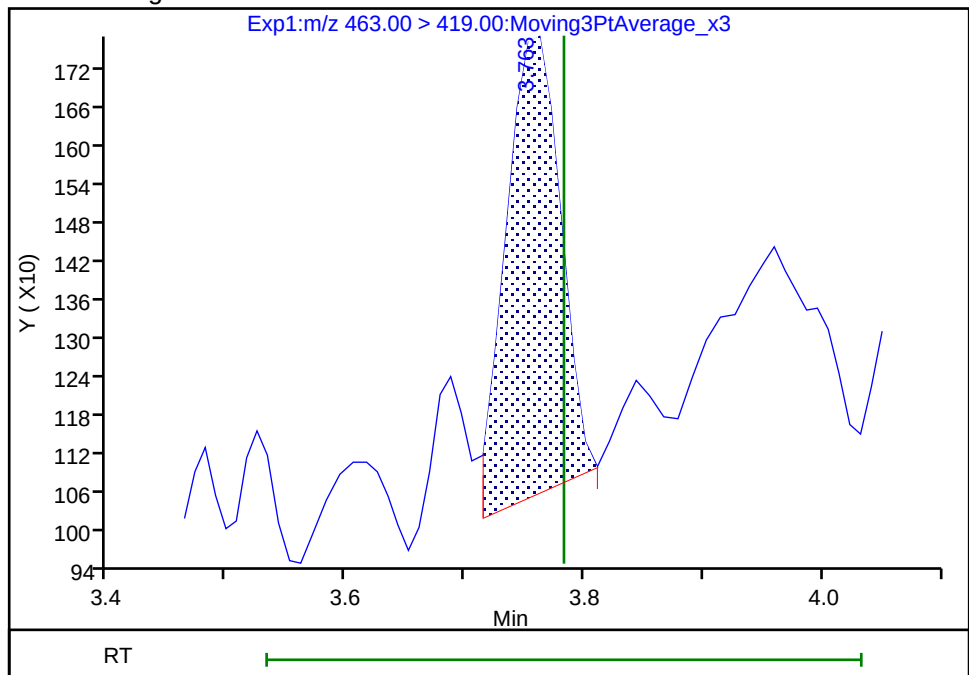
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.76
Area: 2272
Amount: 0.000994
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:13:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

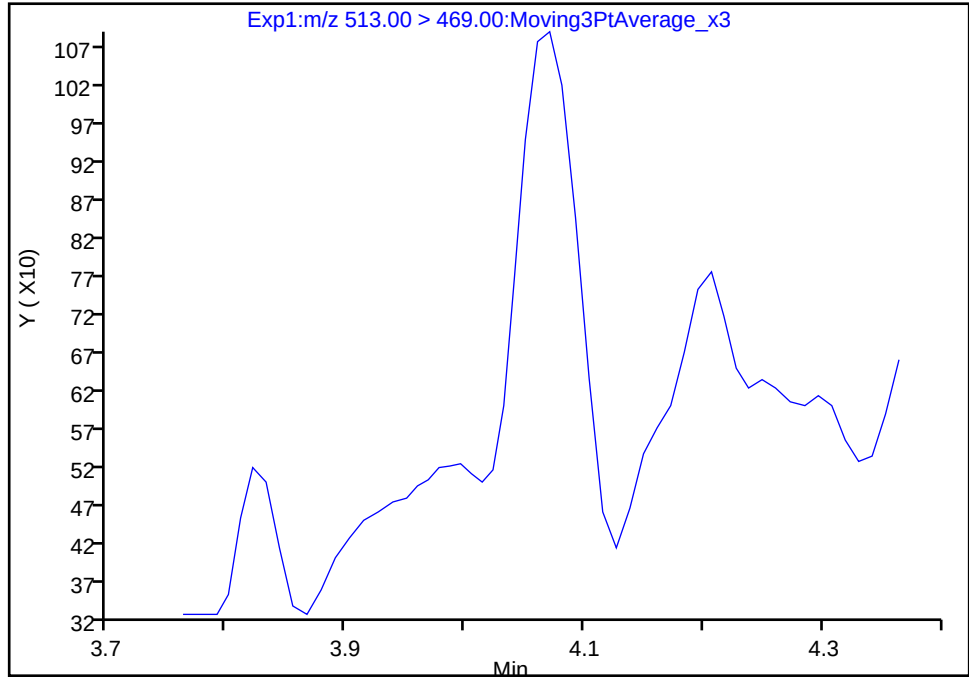
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

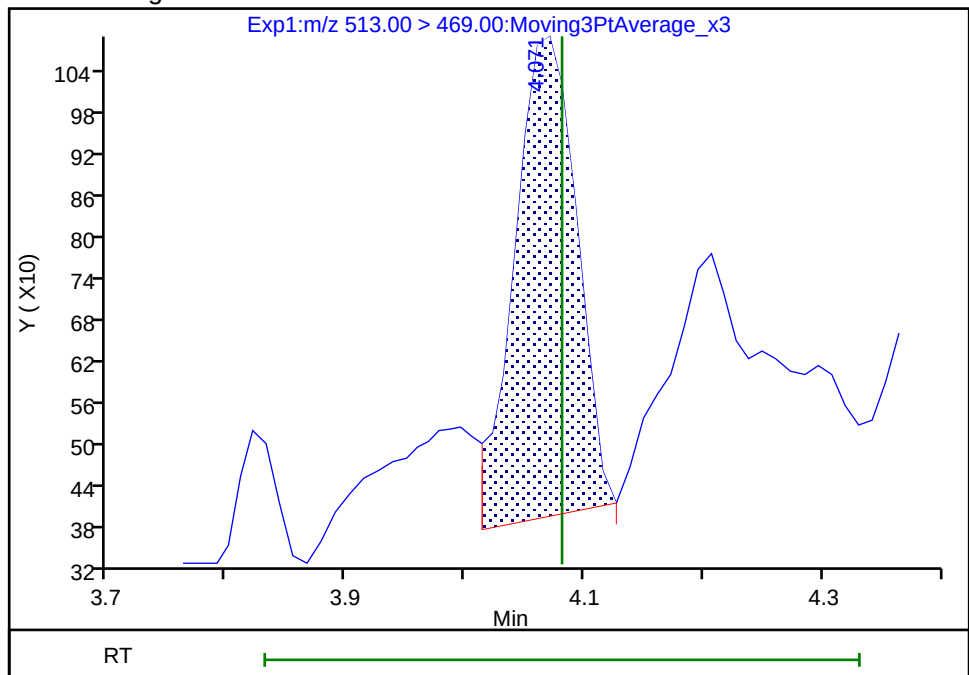
Signal: 1

Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.07
Area: 2511
Amount: 0.000963
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:16:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

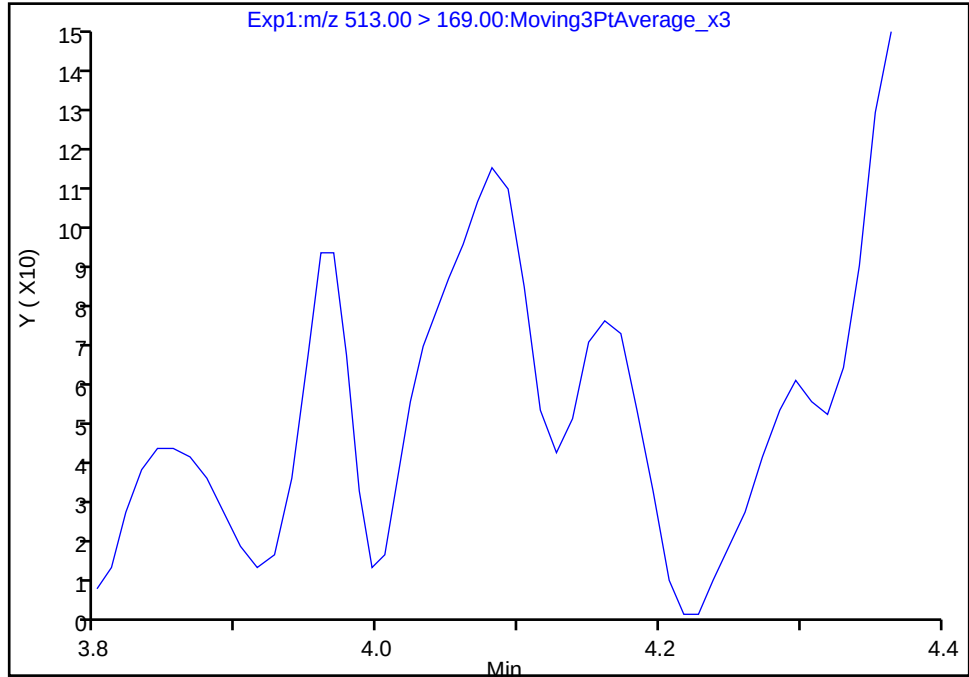
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

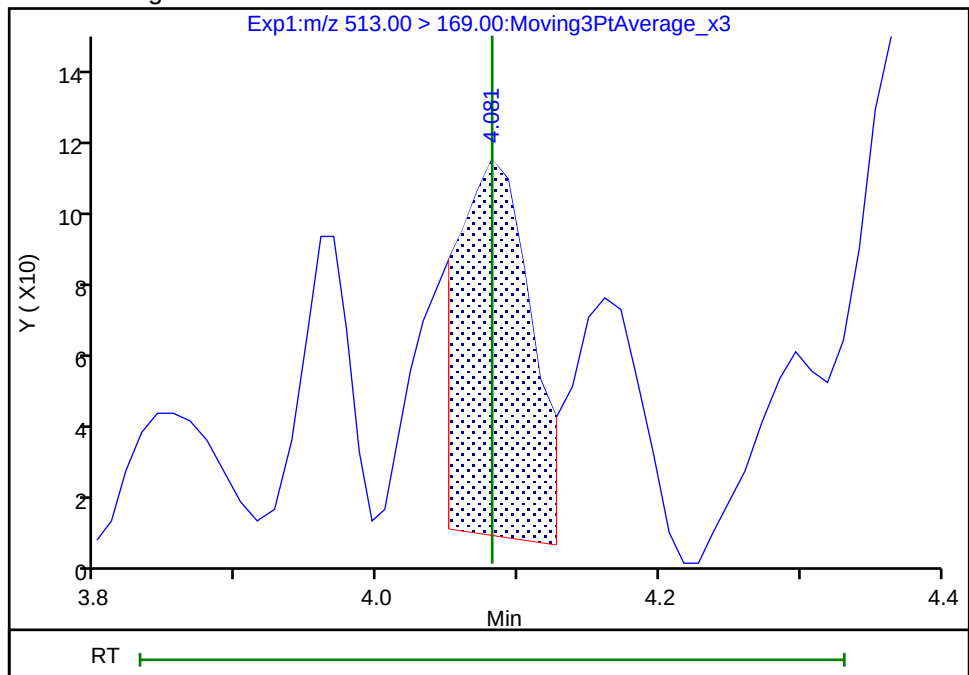
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 339
Amount: 0.000963
Amount Units: ng/ml



Reviewer: nampitkw, 05-Jan-2023 16:16:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

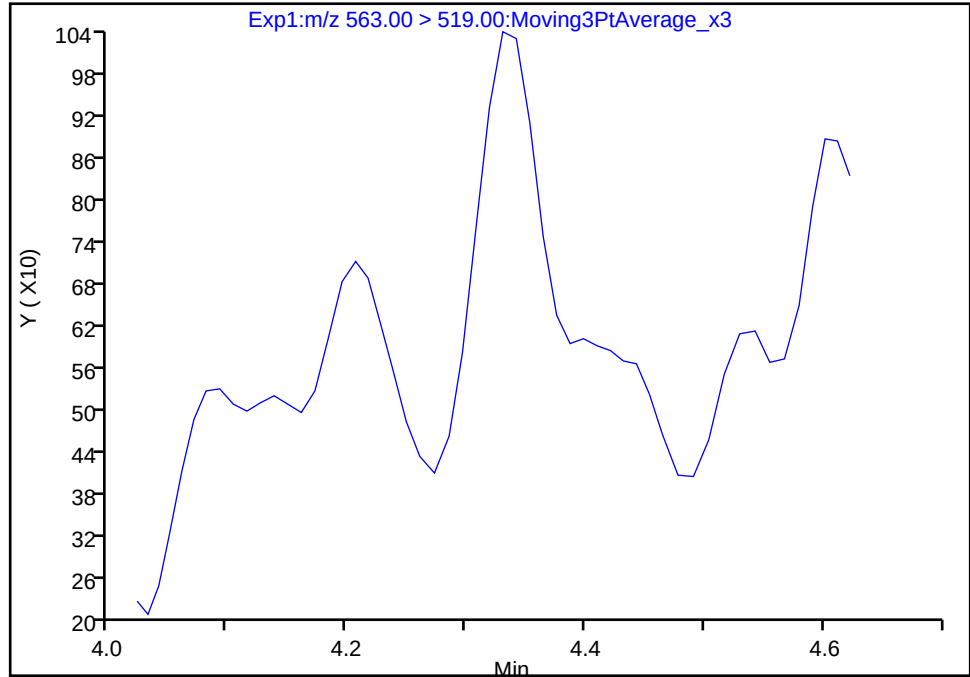
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d		
Injection Date:	04-Jan-2023 15:09:59	Instrument ID:	LC812
Lims ID:	CCB		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	4

31 Perfluoroundecanoic acid, CAS: 2058-94-8

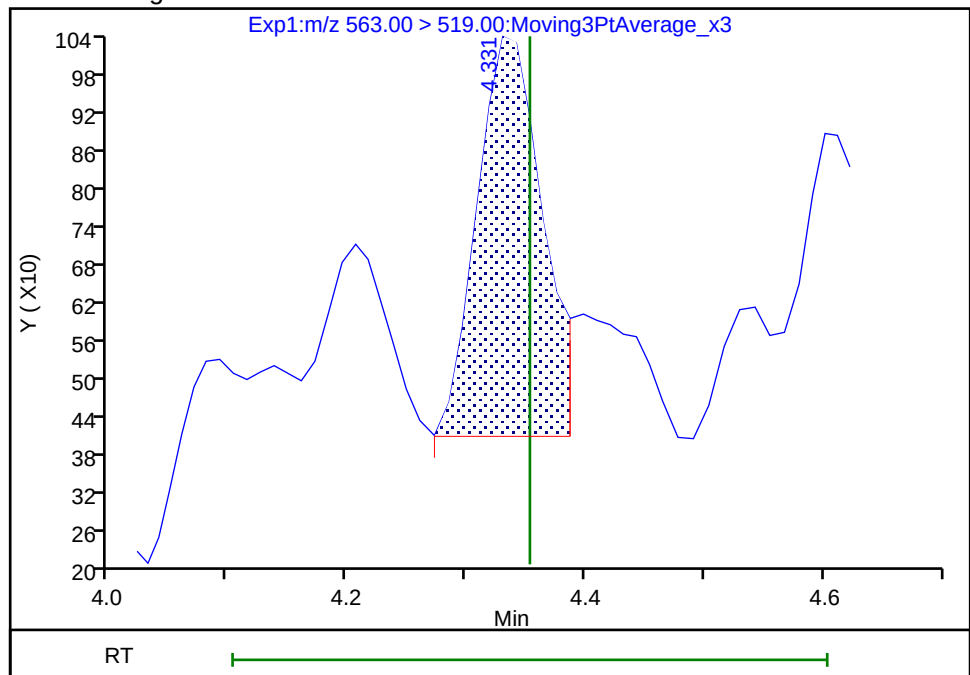
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:17:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

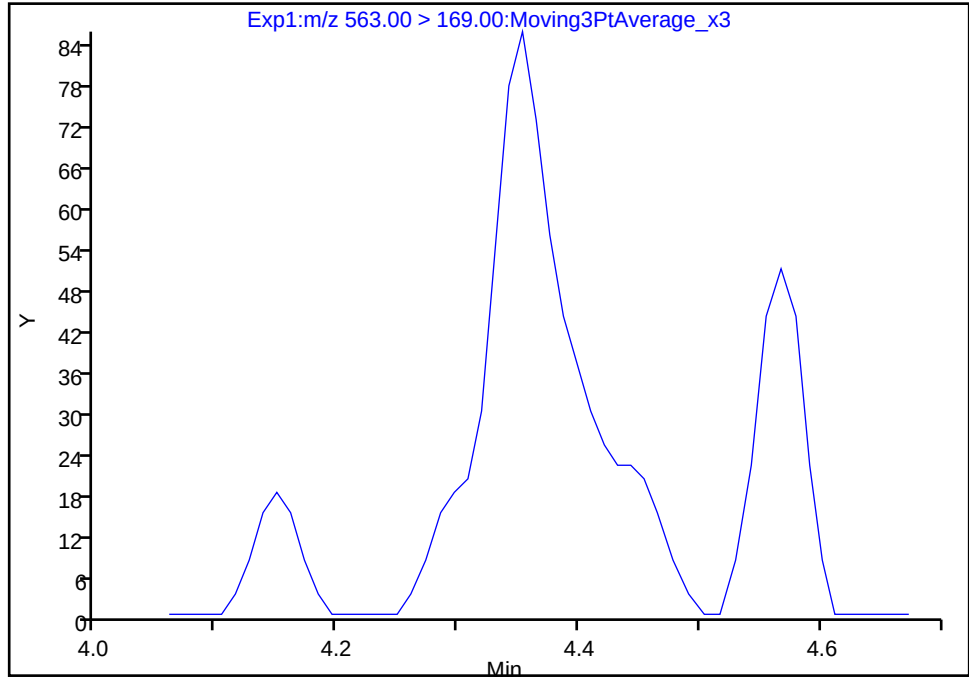
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

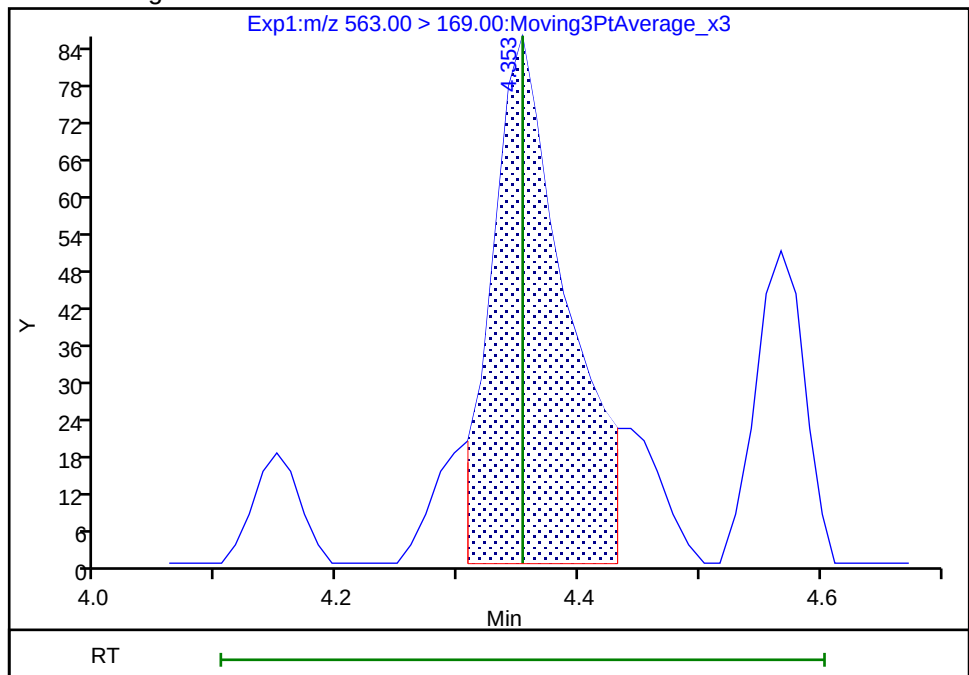
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 361
Amount: 0.001085
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:17:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

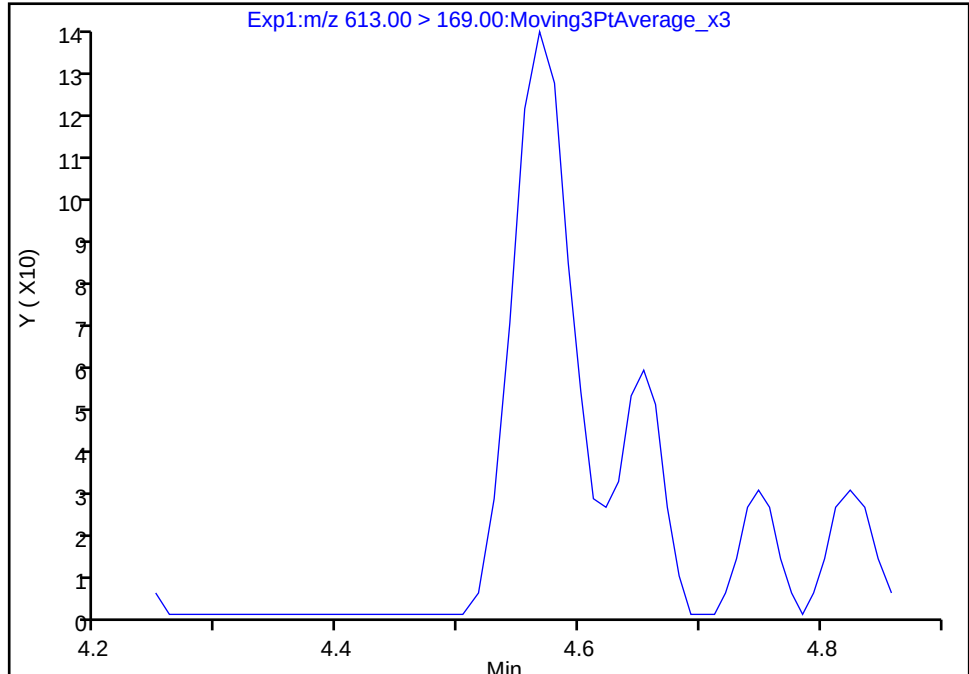
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

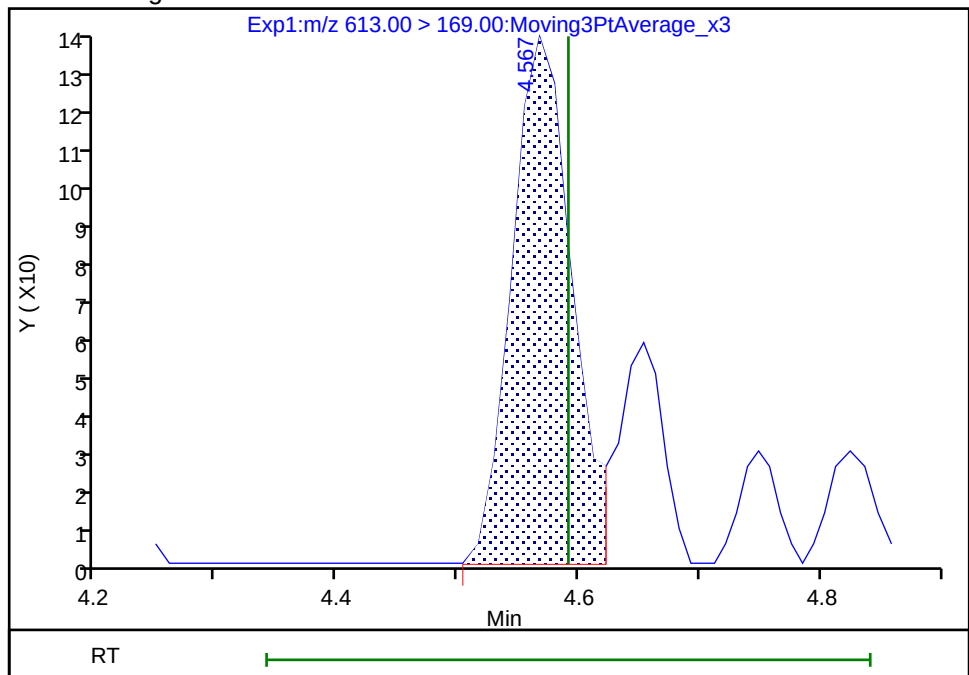
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.57
Area: 463
Amount: 0.001241
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:18:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

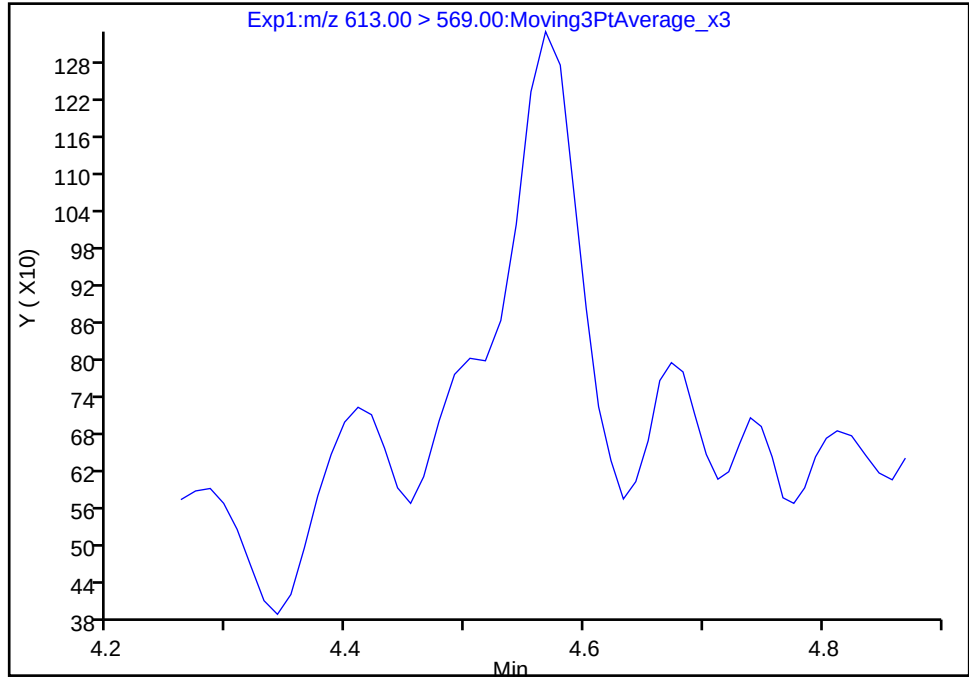
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

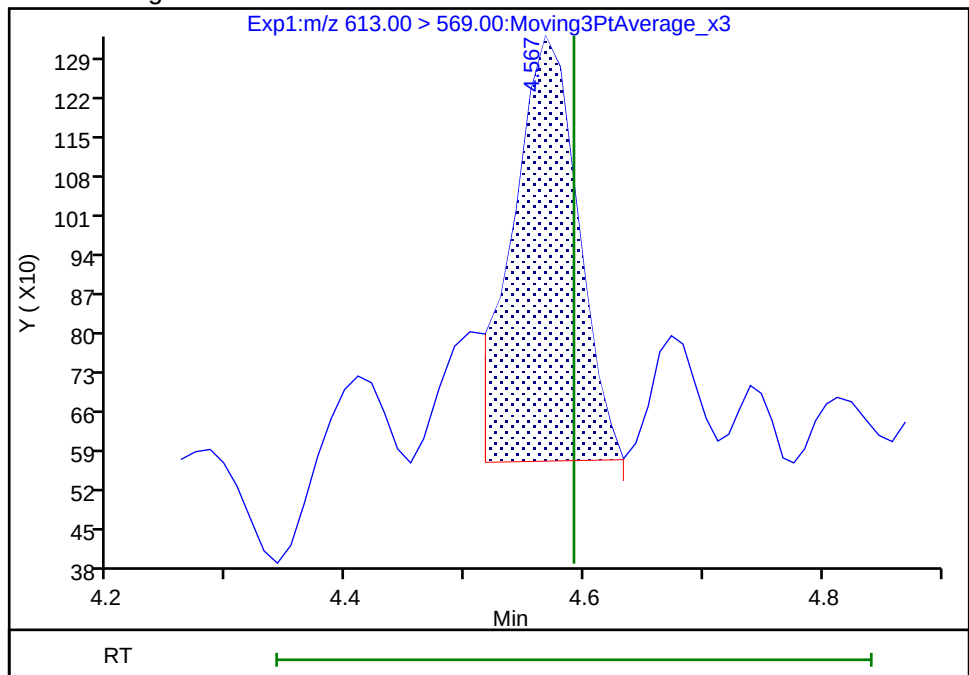
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.57
Area: 2855
Amount: 0.001241
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:18:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

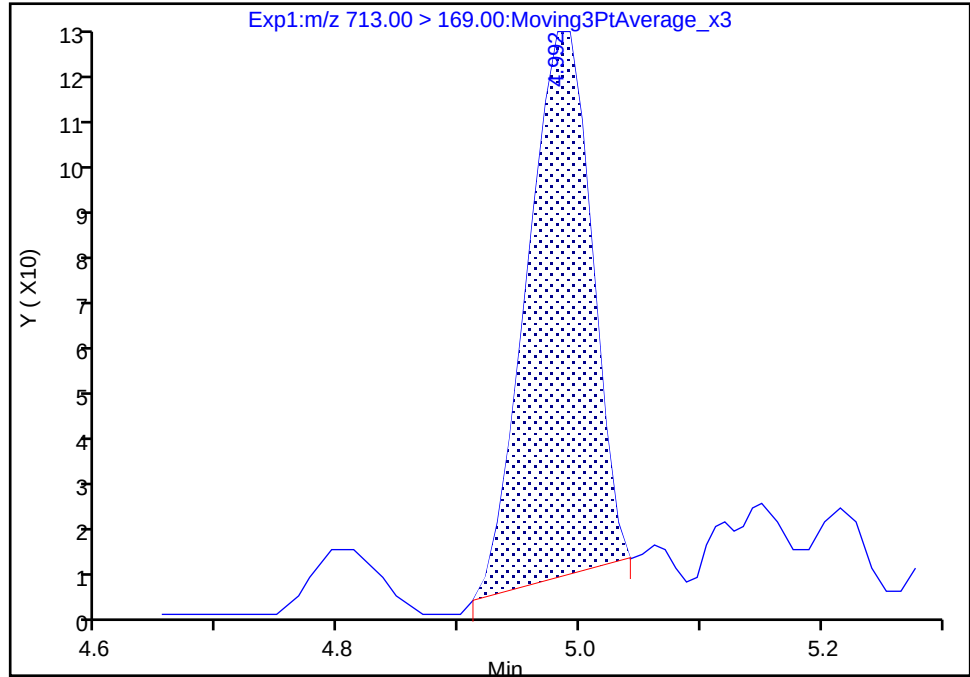
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

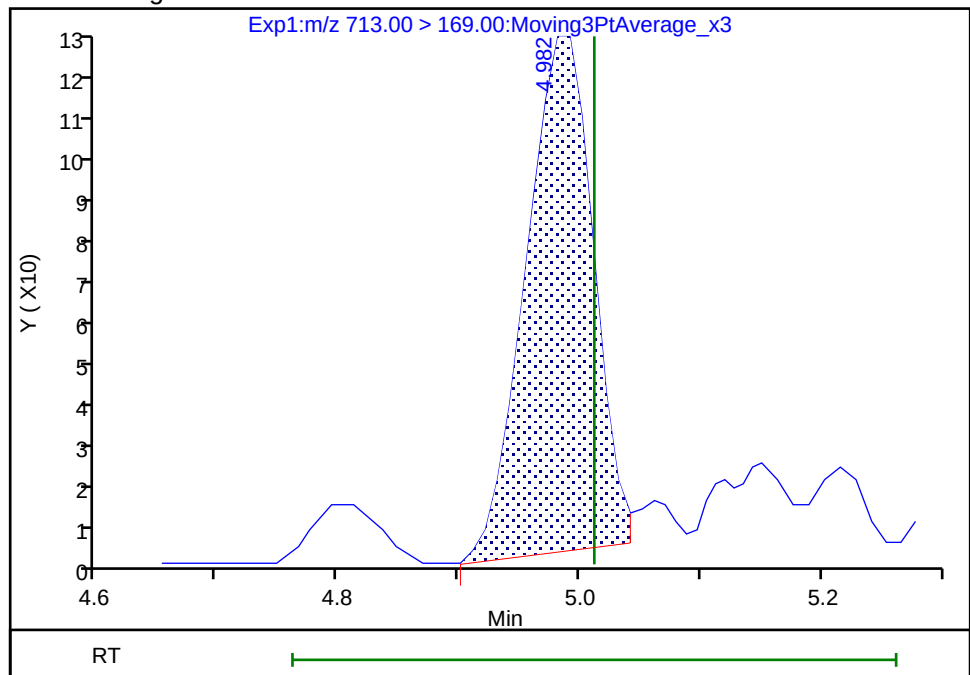
RT: 4.99
Area: 438
Amount: 0.001545
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 477
Amount: 0.001682
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:19:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

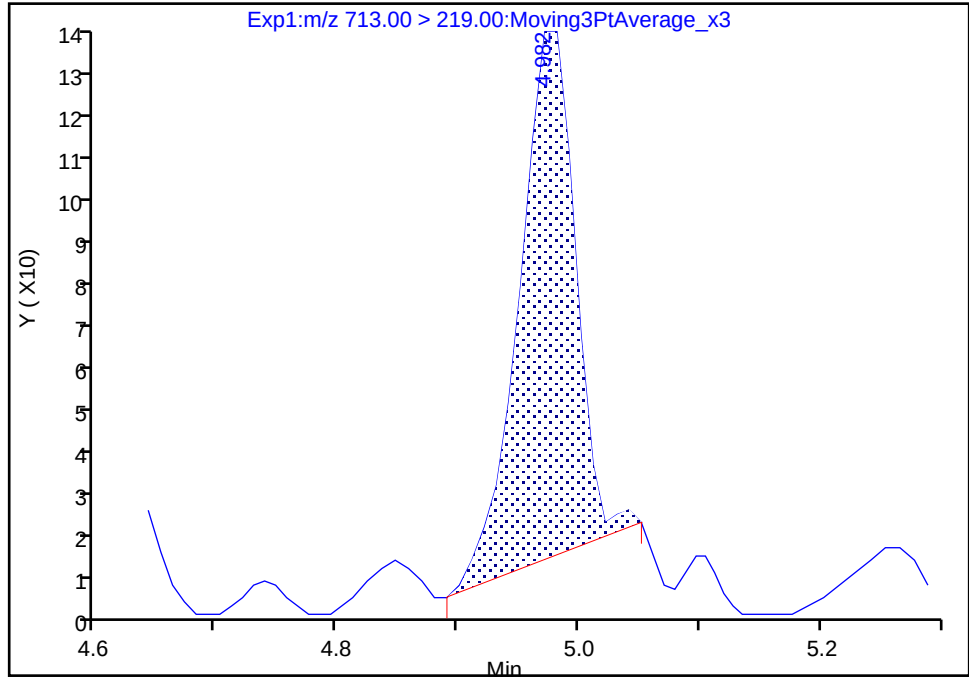
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

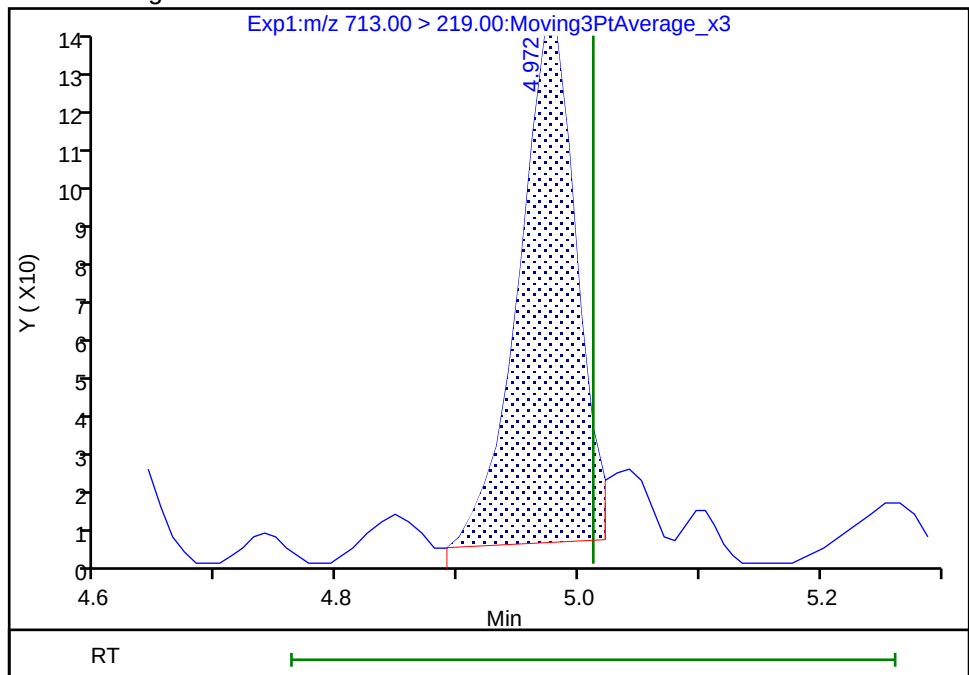
RT: 4.98
Area: 411
Amount: 0.001545
Amount Units: ng/ml

Processing Integration Results



RT: 4.97
Area: 455
Amount: 0.001682
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:19:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

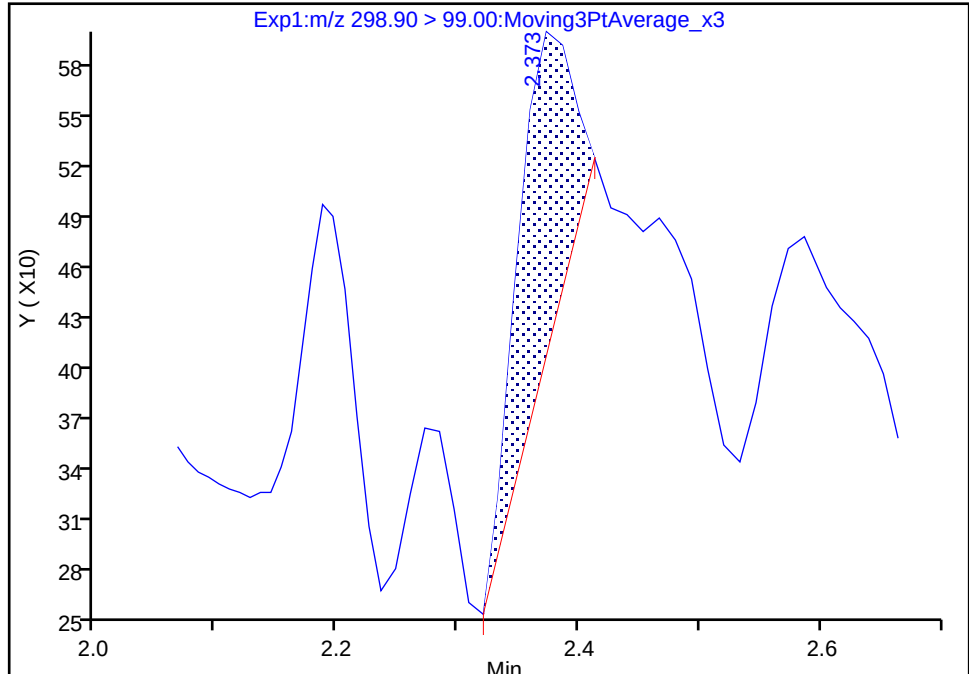
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

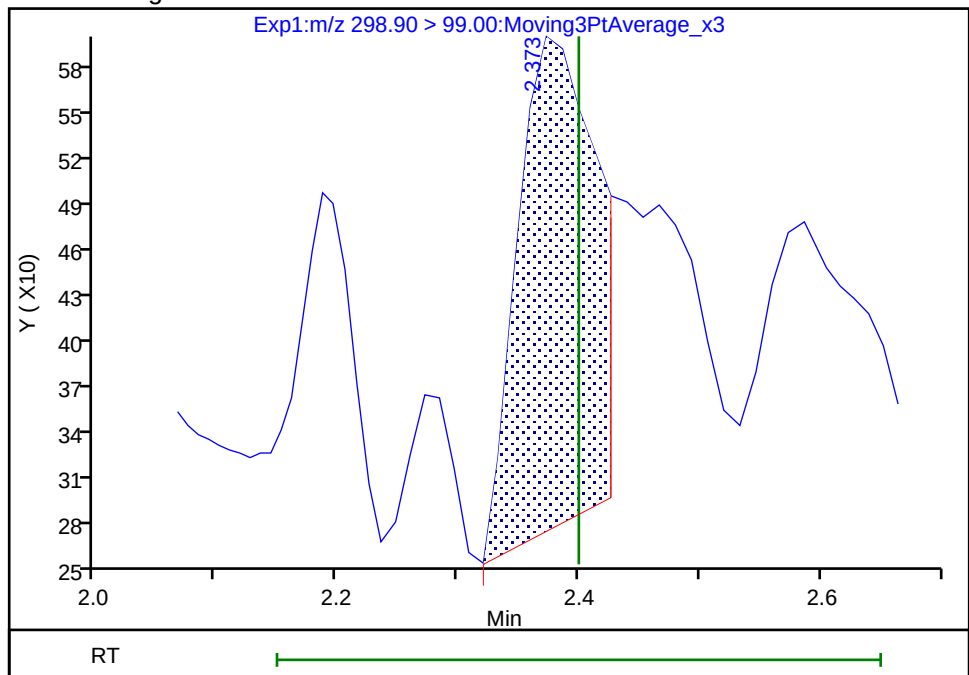
RT: 2.37
Area: 590
Amount: 0.000713
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 1402
Amount: 0.001085
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:11:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

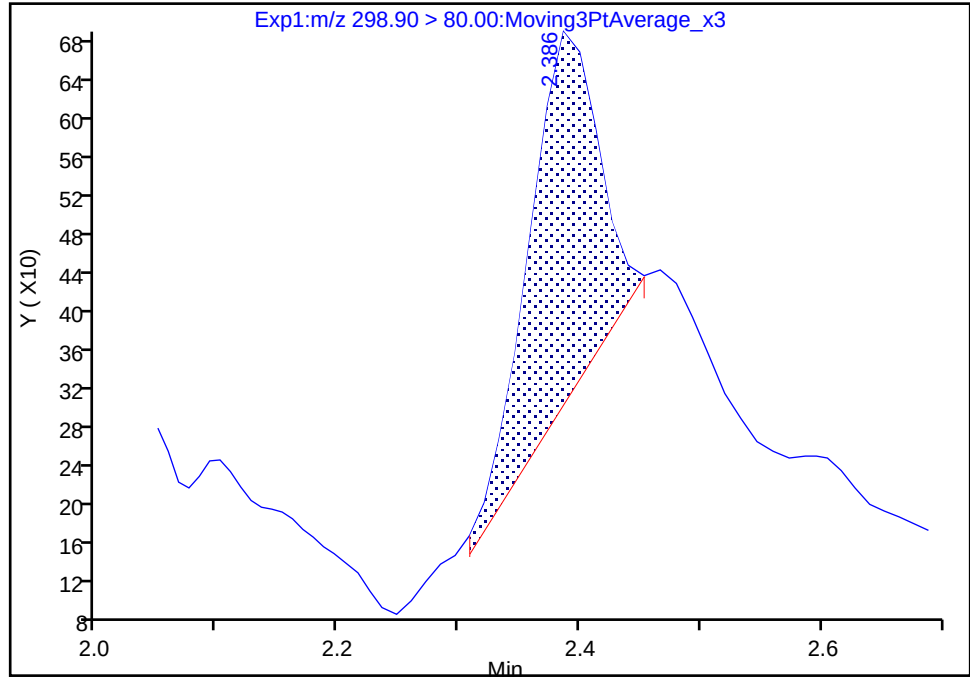
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

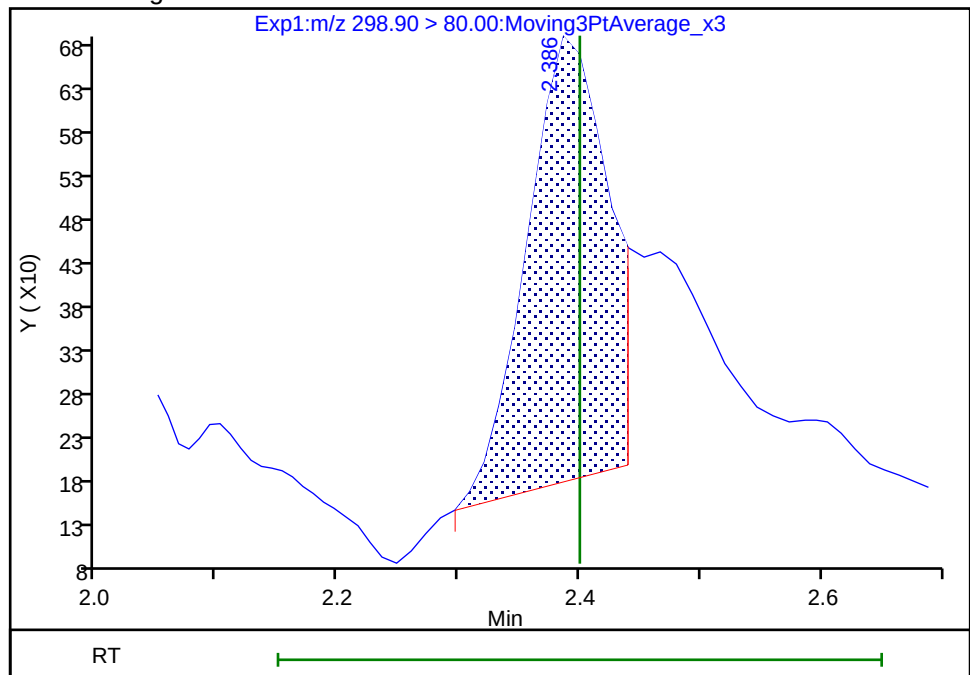
RT: 2.39
Area: 1540
Amount: 0.000713
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 2343
Amount: 0.001085
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:11:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

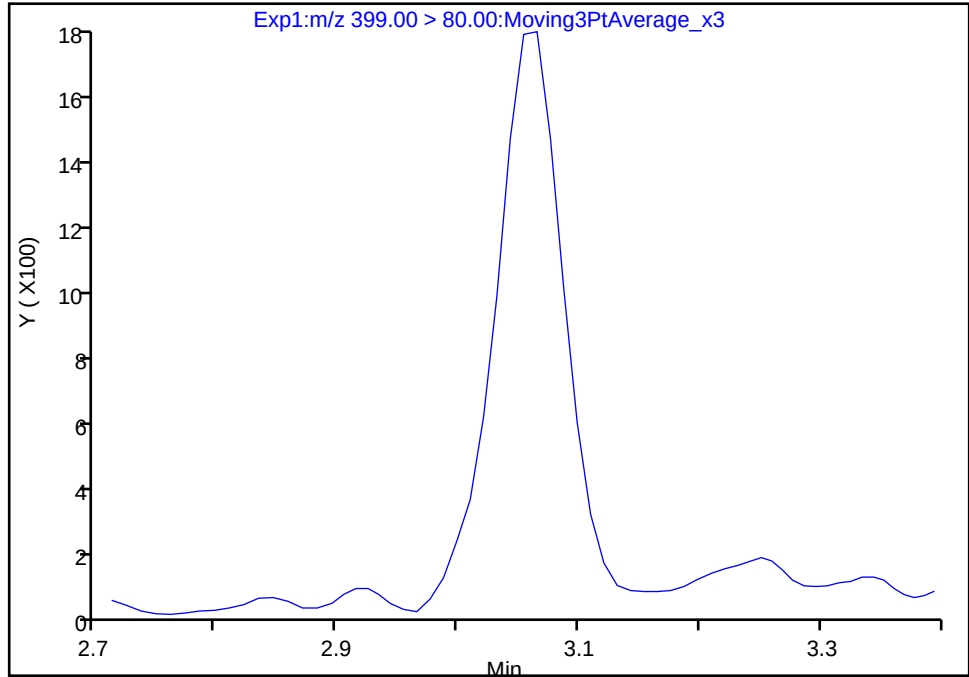
Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d		
Injection Date:	04-Jan-2023 15:09:59	Instrument ID:	LC812
Lims ID:	CCB		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	4

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

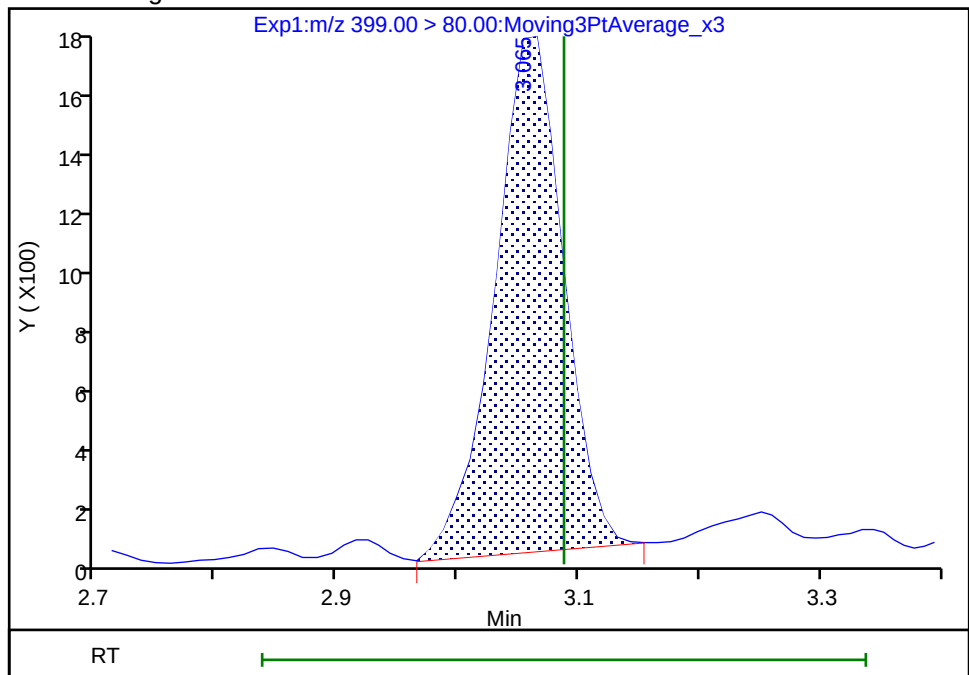
Signal: 1

Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:11:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d

Injection Date: 04-Jan-2023 15:09:59

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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

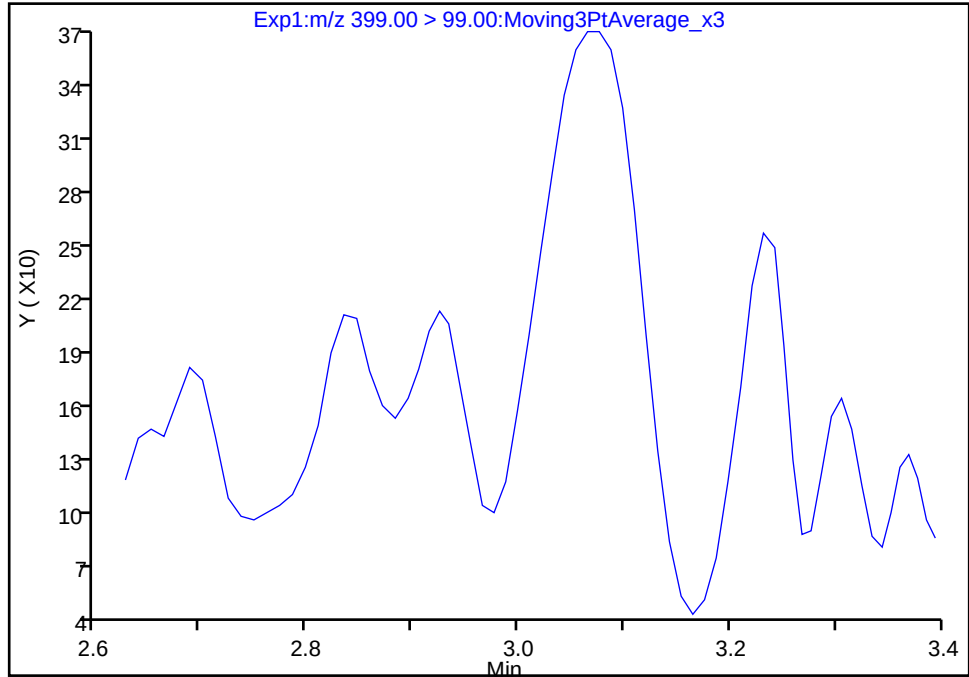
8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

Not Detected

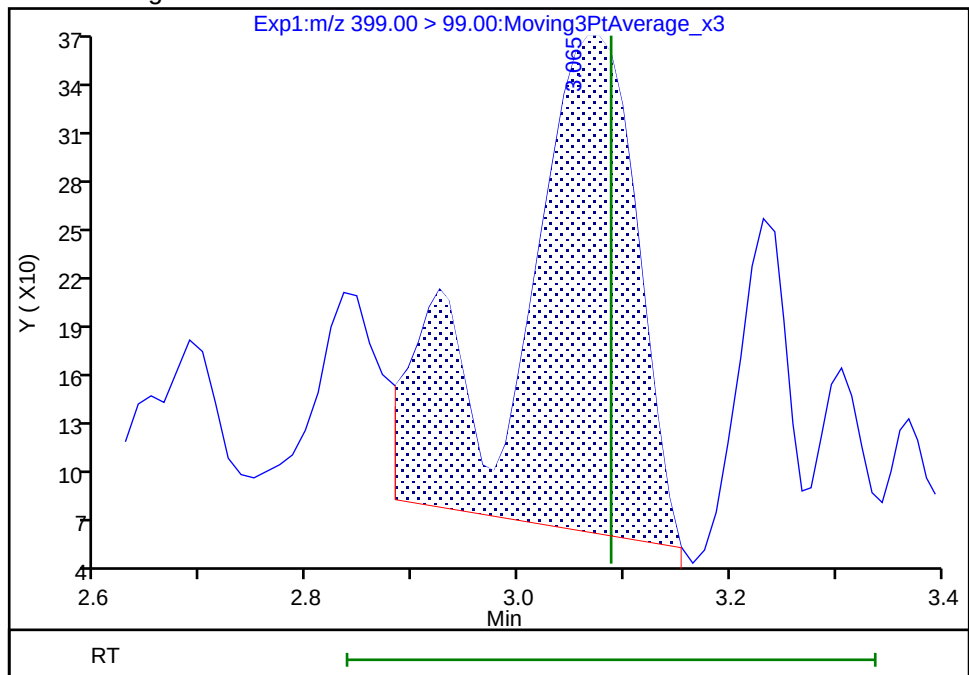
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 2377
Amount: 0.004011
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:12:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Data File:	\\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d		
Injection Date:	04-Jan-2023 15:09:59	Instrument ID:	LC812
Lims ID:	CCB		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	1 Workli
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

ALS Bottle#:	1	Worklist Smp#:	4
Dil. Factor:	1.0000		
Limit Group:	LC_PFC_ICAL		
Detector	EXP1		

Signal: 1

Not Detected
Expected RT: 3.76

Exp1:m/z 499.00 > 80.00:Moving3PtAverage_x3

Min	Y (X10)
3.25	4.5
3.30	4.0
3.35	8.5
3.40	4.5
3.45	4.0
3.50	1.5
3.55	16.5
3.60	19.5
3.65	11.5
3.70	25.5
3.75	41.0
3.80	11.0
3.85	13.5
3.90	14.5
3.95	6.0
4.00	8.5
4.05	10.5
4.10	6.0

RT: 3.74
Area: 3077
Amount: 0.002615
Amount Units: ng/ml

Exp1:m/z 499.00 > 80.00:Moving3PtAverage_x3

Y (X10)

RT

Min

3.743

3.812

Reviewer: nampitakw, 05-Jan-2023 16:12:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d

Injection Date: 04-Jan-2023 15:09:59

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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

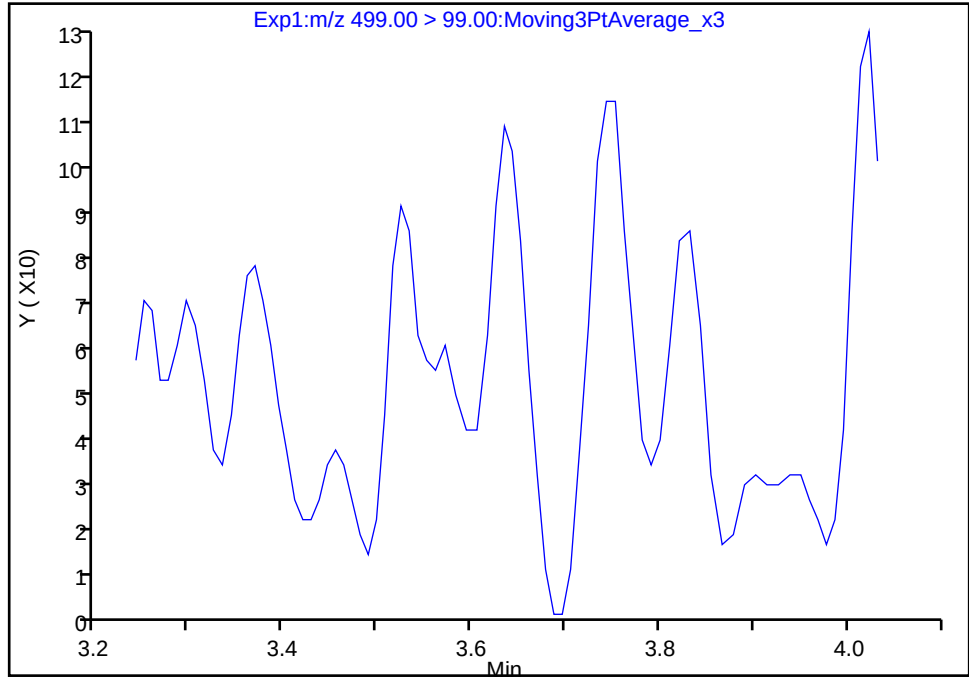
17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

Not Detected

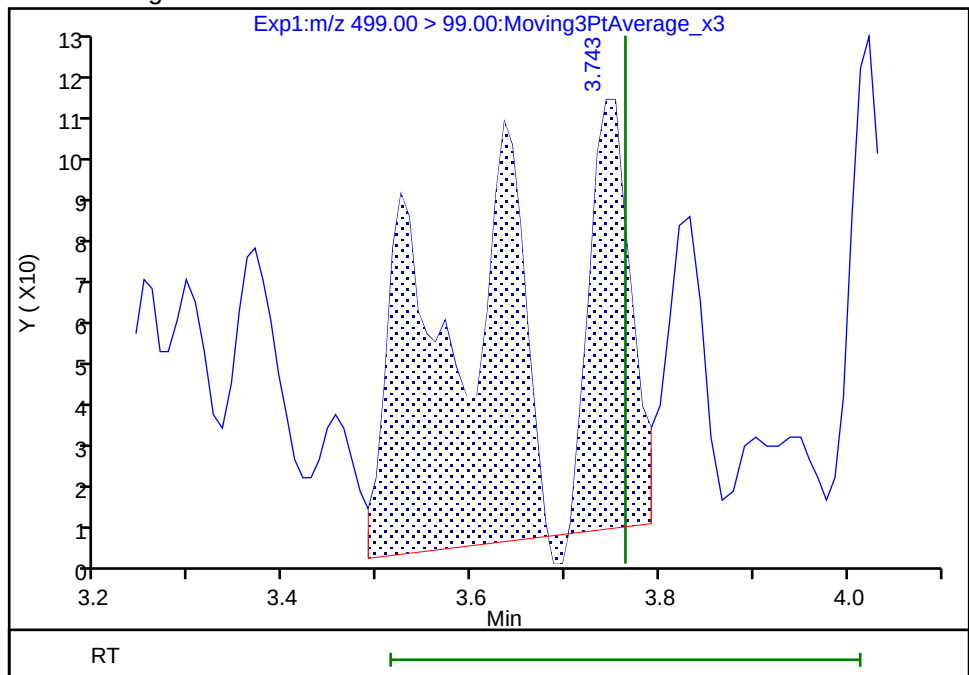
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.74
Area: 862
Amount: 0.002615
Amount Units: ng/ml



Reviewer: nampitakw, 05-Jan-2023 16:12:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

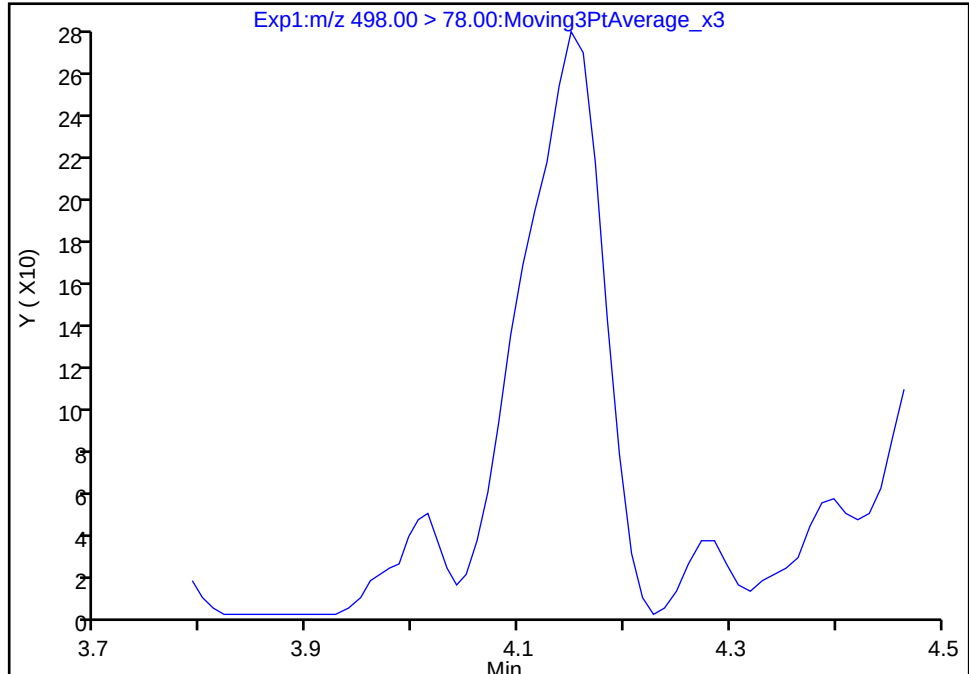
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

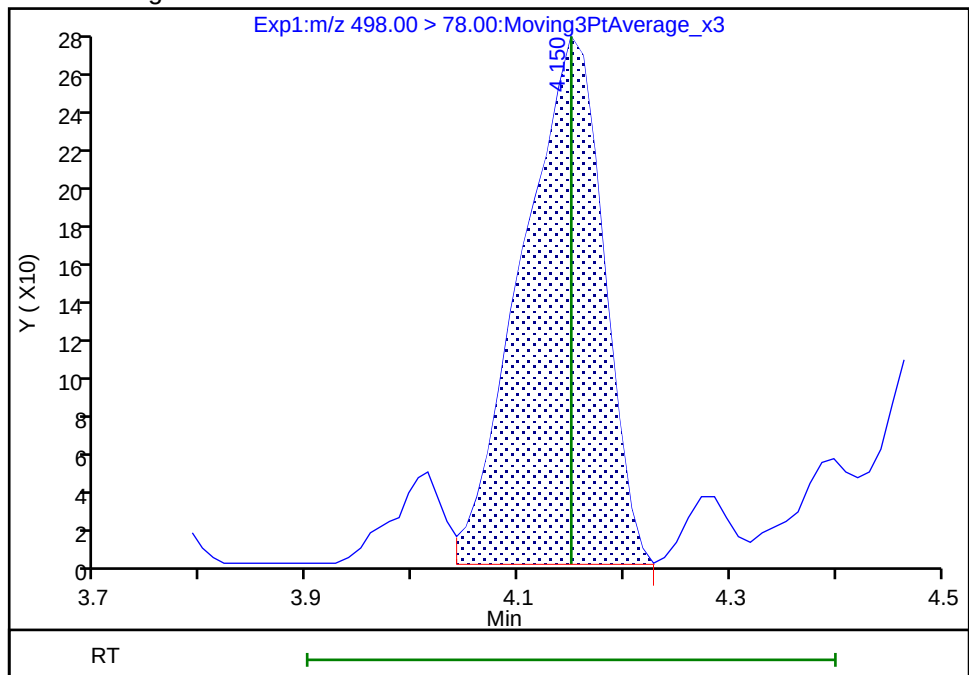
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.15
Area: 1480
Amount: 0.000792
Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:16:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

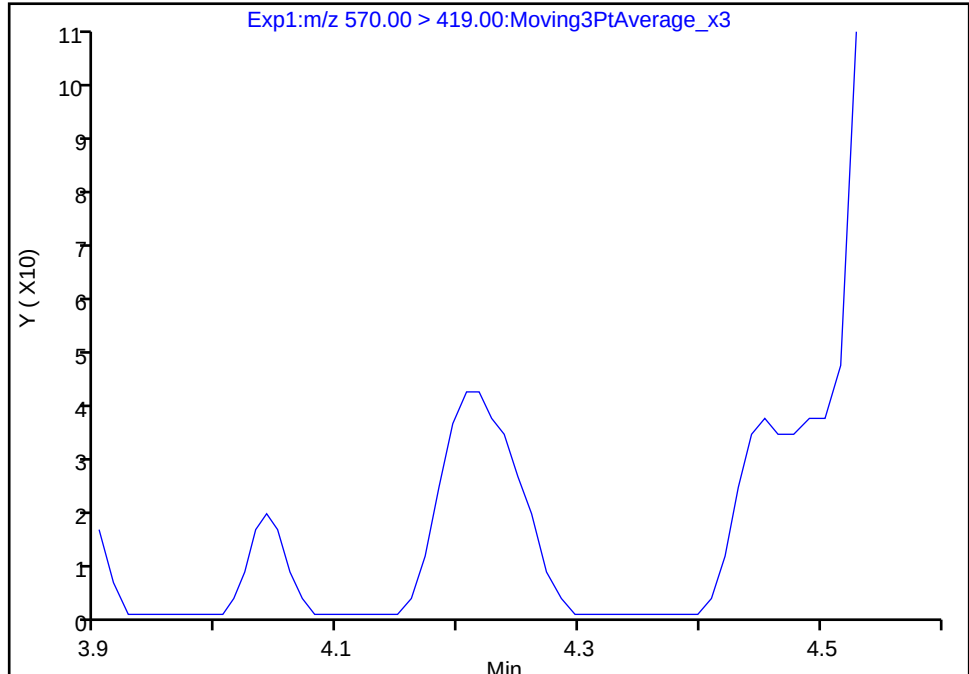
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

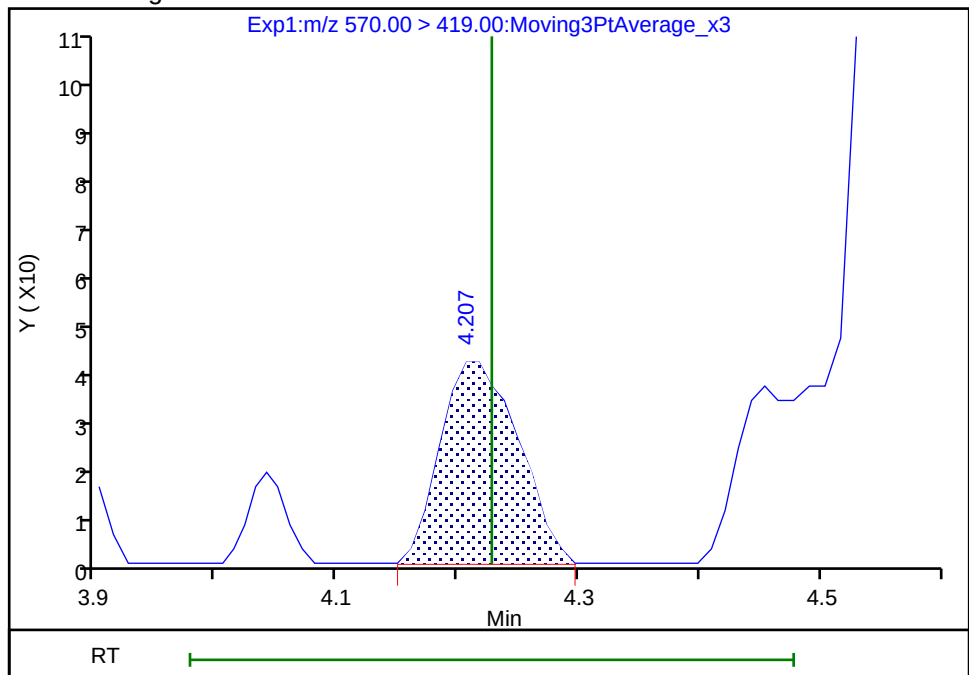
Not Detected
Expected RT: 4.23

Processing Integration Results



RT: 4.21
Area: 188
Amount: -0.011120
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:17:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d

Injection Date: 04-Jan-2023 15:09:59

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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)

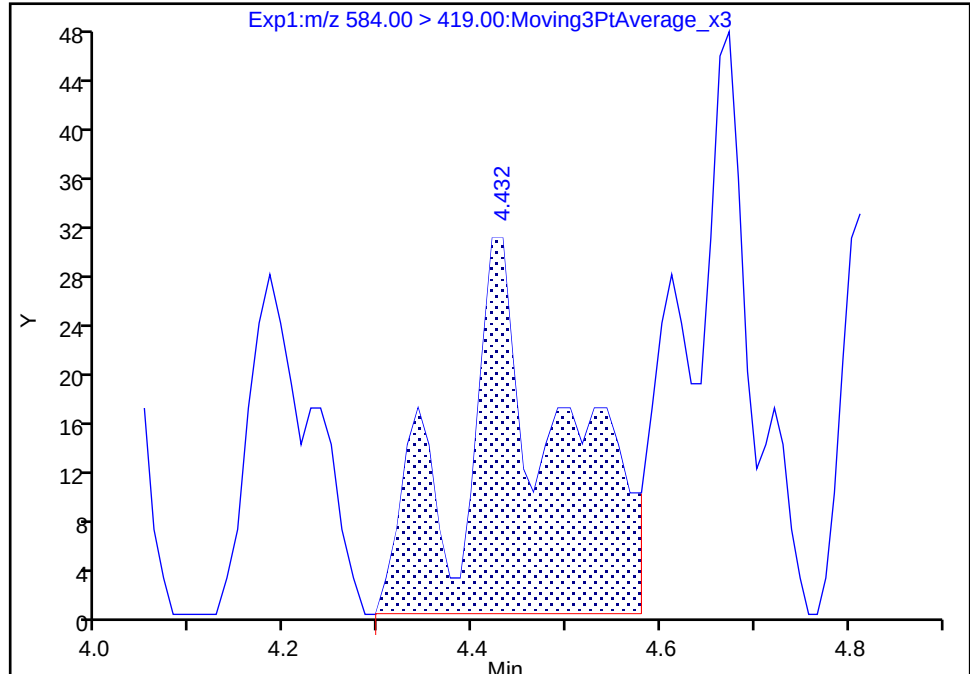
Detector: EXP1

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

Signal: 1

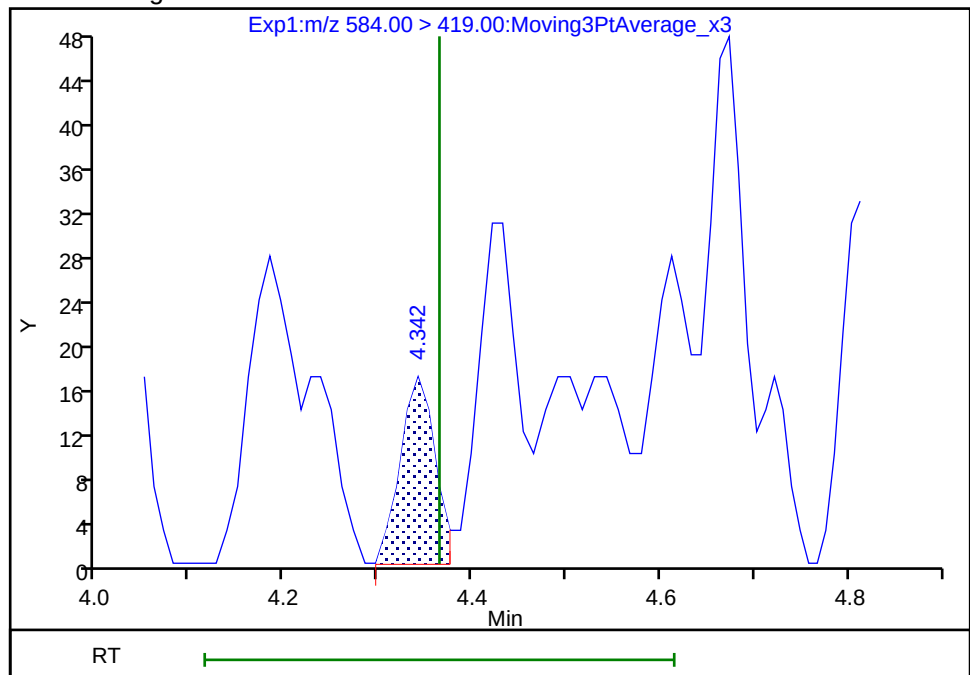
RT: 4.43
Area: 232
Amount: 0.000614
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 43
Amount: 0.000114
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:17:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

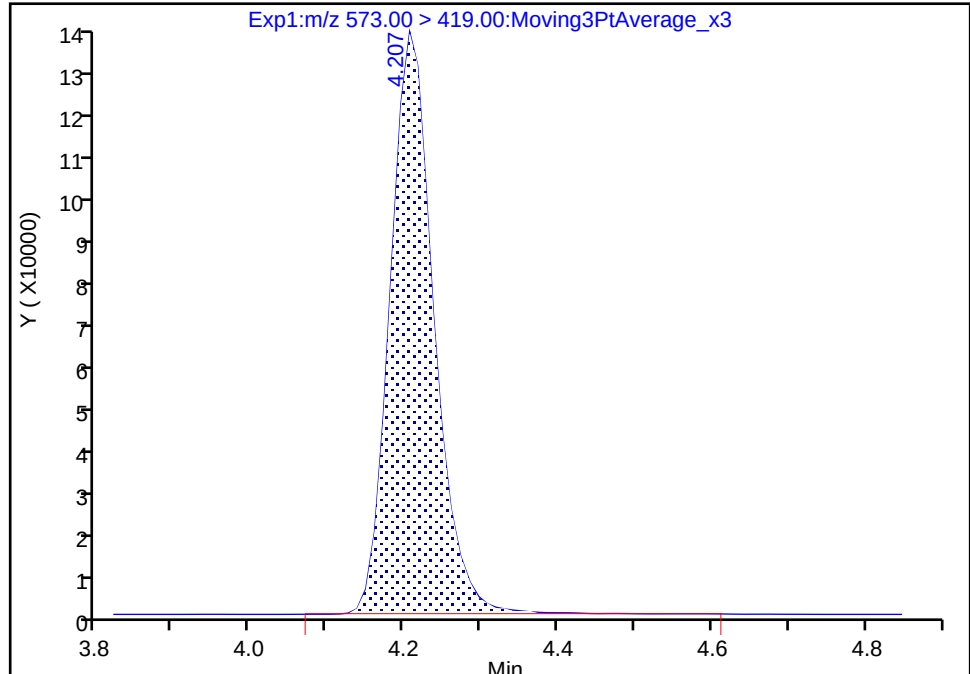
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

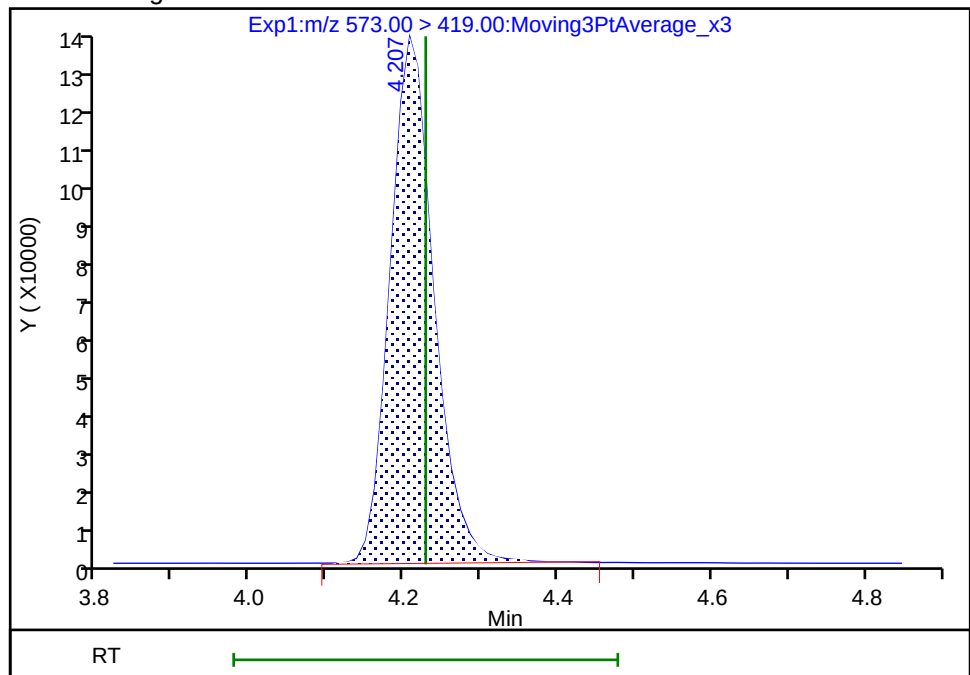
RT: 4.21
Area: 540676
Amount: 1.191187
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 538973
Amount: 1.187435
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:10:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d

Injection Date: 04-Jan-2023 15:09:59

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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

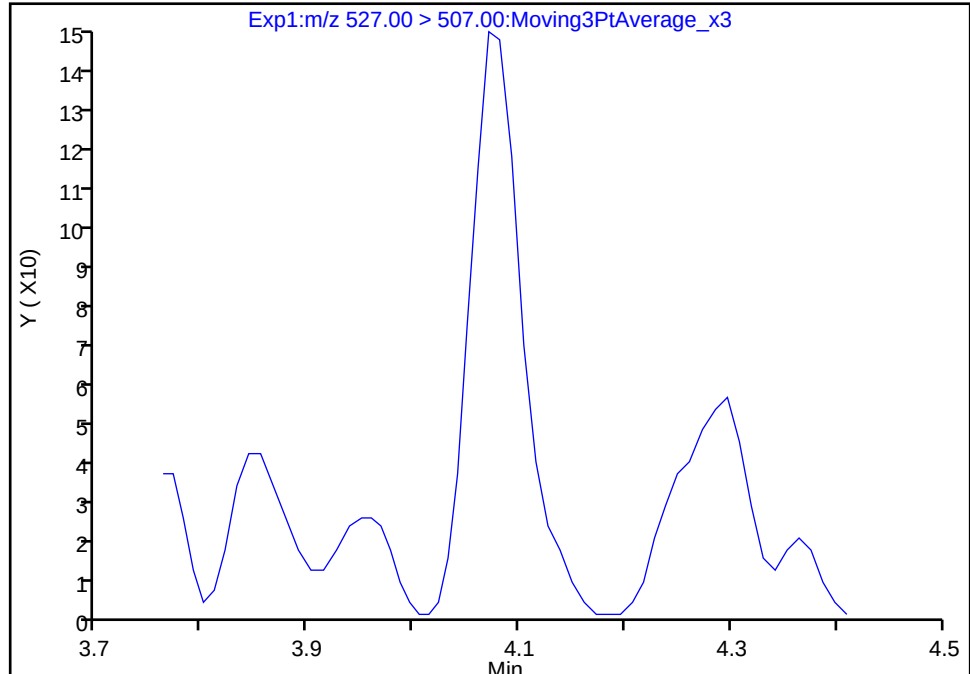
25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

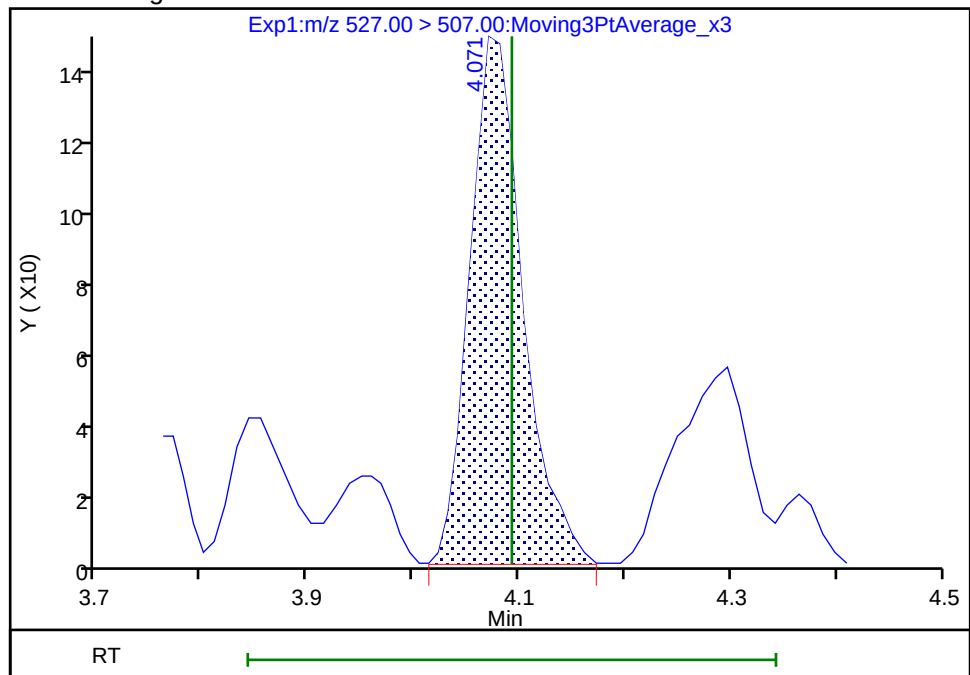
Not Detected

Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.07

Area: 504

Amount: 0.000977

Amount Units: ng/ml

Reviewer: nampitakw, 05-Jan-2023 16:16:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

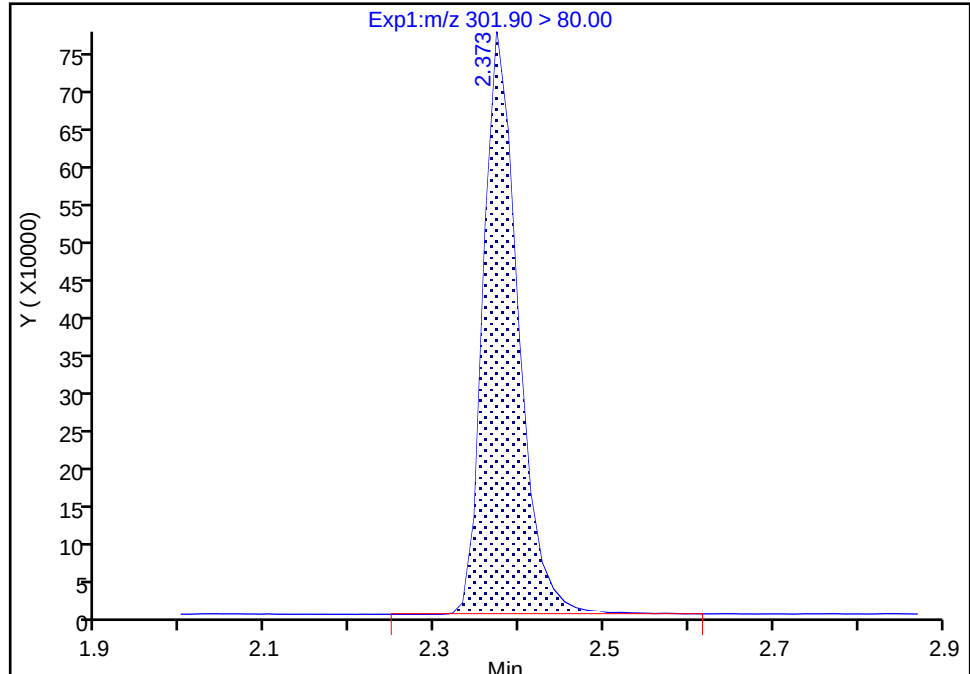
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

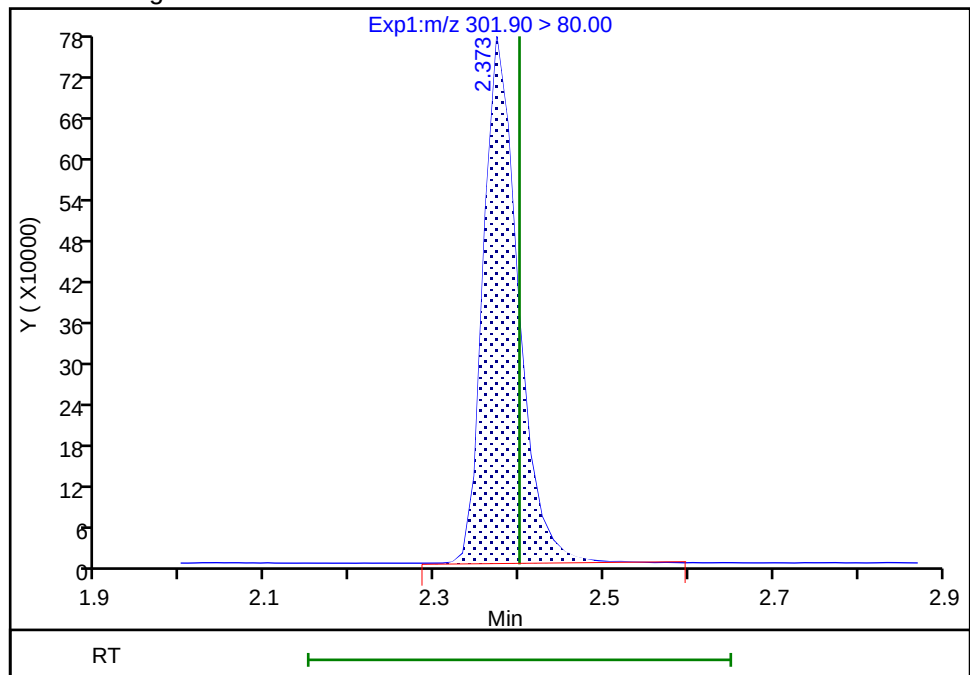
RT: 2.37
Area: 2195831
Amount: 1.087748
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 2194738
Amount: 1.087206
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:10:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

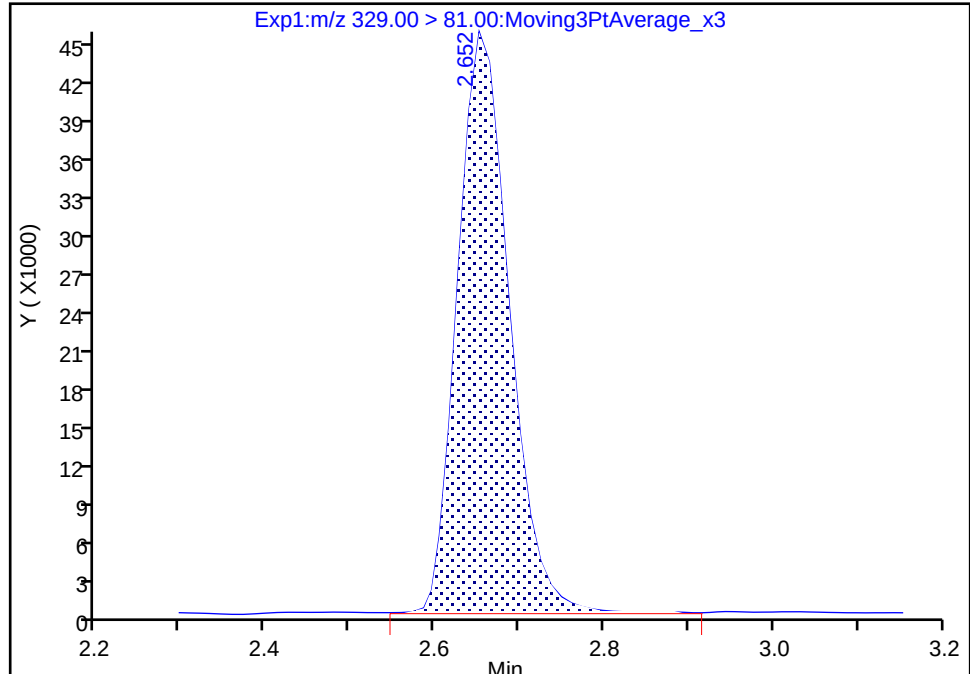
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A04.d
Injection Date: 04-Jan-2023 15:09:59 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

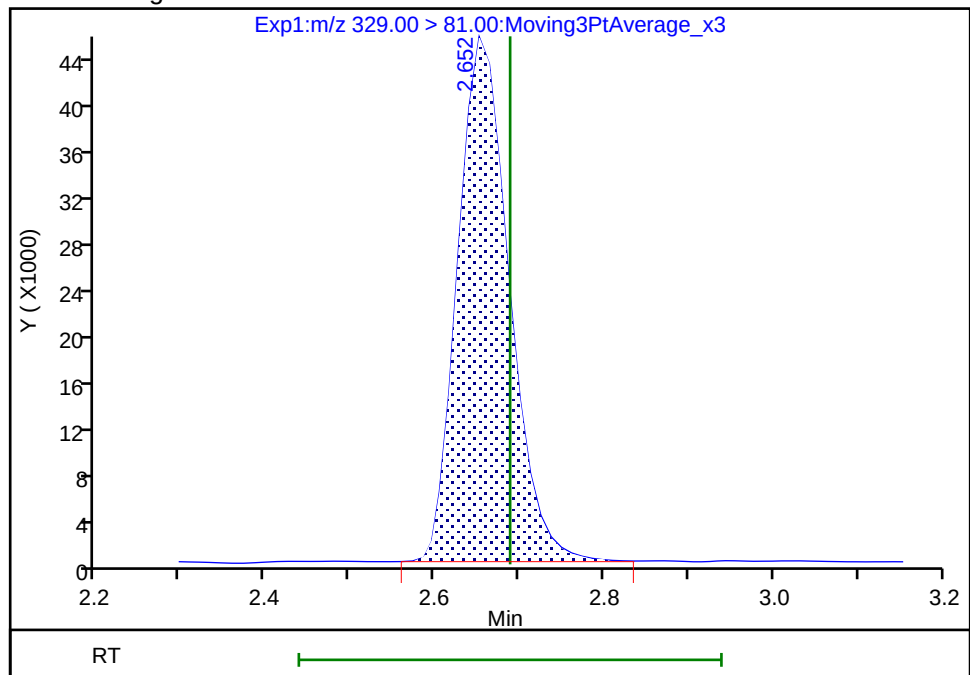
RT: 2.65
Area: 191636
Amount: 1.074336
Amount Units: ng/ml

Processing Integration Results



RT: 2.65
Area: 189810
Amount: 1.064099
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:10:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: CCB 200-187284/4

Matrix: Solid Lab File ID: PA230105A04.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/05/2023 15:13

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.: 187284 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
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
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.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187284/4
 Matrix: Solid Lab File ID: PA230105A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 01/05/2023 15:13
 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.: 187284 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	103		50-150
STL00995	13C5 PFNA	103		50-150
STL00992	13C4 PFBA	89		50-150
STL00993	13C2 PFHxA	96		50-150
STL00996	13C2 PFDA	110		50-150
STL00997	13C2 PFUnA	109		50-150
STL00994	18O2 PFHxS	100		50-150
STL00998	13C2 PFDoA	112		50-150
STL00991	13C4 PFOS	97		50-150
STL01056	13C8 FOSA	99		50-150
STL01893	13C5 PFPeA	92		50-150
STL02116	13C2 PFTeDA	120		50-150
STL02118	d3-NMeFOSAA	100		50-150
STL02117	d5-NEtFOSAA	105		50-150
STL02279	M2-6:2 FTS	112		50-150
STL02337	13C3 PFBS	97		50-150
STL02280	M2-8:2 FTS	102		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 05-Jan-2023 15:13:55 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0053906-004 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:17:11 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 11:01:02

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	2.077	2.076	0.001	0.601	2865417	1.11		88.8	10059	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.076	0.018	1.008	12868	0.005444			2.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.388	2.387	0.001	0.691	2268920	1.15		92.3	3487	
D 47 13C3 PFBS										M
301.90 > 80.00	2.402	2.400	0.002	0.695	2415206	1.13		97.3	173881	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.415	2.400	0.015	1.006	3238	0.001362	Target=2.09		3.1	M
298.90 > 99.00	2.428	2.400	0.028	1.011	1625		1.99(1.04-3.13)		0.8	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.703	2.689	0.014	0.782	223032	1.18		101	198	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.727	2.725	0.002	0.789	2466227	1.20		95.8	4090	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.824	2.835	-0.011	0.996	285	0.000721			3.3	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.837	2.835	0.002	0.820	467766	1.29		103	2675	
D 11 18O2 PFHxS										
403.00 > 84.00	3.089	3.088	0.001	0.893	1843719	1.18		100	3028	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.089	3.088	0.001	1.000	7133	0.004053	Target=3.66		17.2	M
399.00 > 99.00	3.089	3.088	0.001	1.000	2738		2.61(1.83-5.49)		5.1	
D 9 13C4 PFHpA										
367.00 > 322.00	3.100	3.099	0.001	0.897	2642652	1.25		99.8	3981	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.440	3.439	0.001	0.995	347063	1.33		112	1186	

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	3.449	3.439	0.010	1.003	589	-0.0109		0.7		M
D 14 13C4 PFOA										
417.00 > 372.00	3.449	3.448	0.001	0.997	3061699	1.29		103	7752	
* 62 13C2 PFOA										M
415.00 > 370.00	3.458	3.448	0.010		2876693	1.25		5881		M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.449	3.448	0.001	1.000	2387	0.000912	Target=2.79	0.2		M
413.00 > 169.00	3.449	3.448	0.001	1.000	577		4.14(1.40-4.19)	0.8		M
D 18 13C4 PFOS										
503.00 > 80.00	3.775	3.764	0.011	1.092	1226985	1.16		97.2	2276	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.756	3.764	-0.008	0.995	2819	0.002258	Target=5.11	3.1		M
499.00 > 99.00	3.527	3.764	-0.237	0.934	743		3.79(2.55-7.66)	1.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.794	3.783	0.011	1.097	2969440	1.28		103	3117	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.942	3.928	0.014	1.044	1029	0.000359		3.4		M
D 23 13C2 PFDA										
515.00 > 470.00	4.095	4.081	0.014	1.184	3249094	1.38		110	8430	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.106	4.093	0.013	1.188	388855	1.22		102	1197	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.106	4.093	0.013	1.000	223	0.000425		4.2		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.163	4.150	0.013	1.000	672	0.000336		1.2		M
D 21 13C8 FOSA										M
506.00 > 78.00	4.163	4.150	0.013	1.204	2392962	1.24		99.0	2850	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.230	4.228	0.002	1.223	601426	1.25		100	1124	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.219	4.228	-0.009	0.998	320	-0.0109		1.1		M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.356	4.353	0.003	1.260	2929821	1.36		109	3989	M
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.356	4.353	0.003	1.000	827	0.000350	Target=9.88	0.5		RM
563.00 > 169.00	4.356	4.353	0.003	1.000	34		24.32(4.94-14.82)	0.6		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.368	4.365	0.003	1.000	711	0.001600		3.0		M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.368	4.365	0.003	1.263	620515	1.31		105	1033	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.457	4.454	0.003	1.180	950	0.000215		4.4		M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.602	4.591	0.011	1.002	2983	0.001147	Target=7.77	0.3		M
613.00 > 169.00	4.592	4.591	0.001	1.000	434		6.87(3.89-11.66)	3.7		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 36 13C2 PFDaA

615.00 > 570.00	4.592	4.591	0.001	1.328	3069400	1.39		112	7003	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.963	5.012	-0.049	1.000	659	0.002099	Target=0.89		4.0	M
713.00 > 219.00	4.963	5.012	-0.049	1.000	589		1.12(0.44-1.33)		6.1	

D 43 13C2 PFTeDA

715.00 > 670.00	4.963	5.012	-0.049	1.435	2866351	1.51		120	6276	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.301	5.367	-0.066	1.002	32575	-0.004635	Target=5.65		3.2	M
813.00 > 169.00	5.290	5.367	-0.077	1.000	5795		5.62(2.82-8.47)		47.5	

D 44 13C2 PFHxDA

815.00 > 770.00	5.290	5.367	-0.077	1.530	3558422	1.51		121	4990	

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: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d

Injection Date: 05-Jan-2023 15:13:55

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

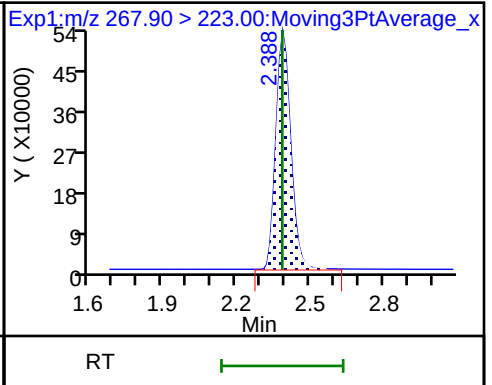
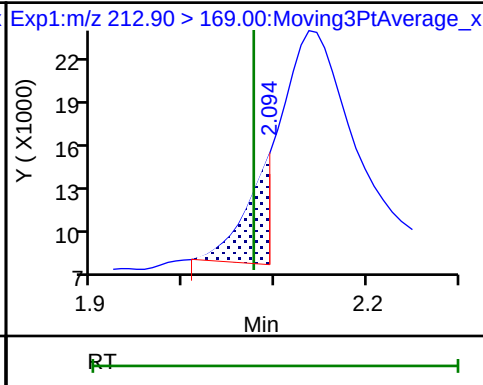
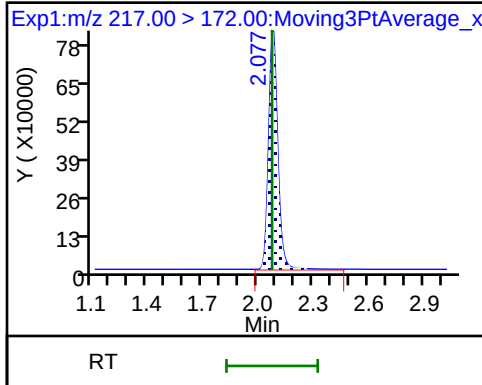
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

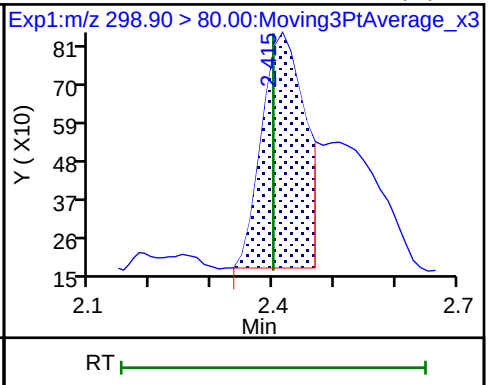
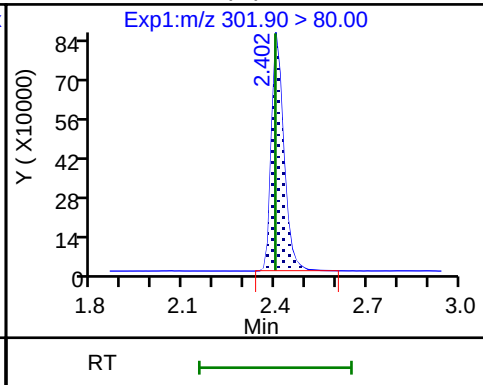
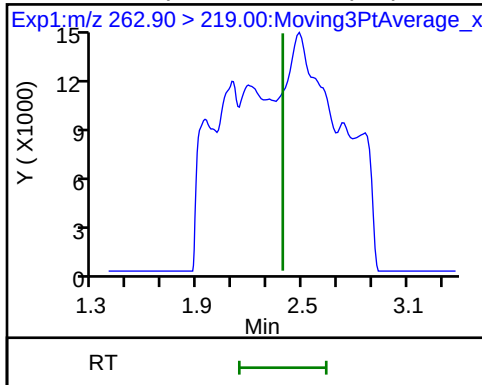
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS (M)

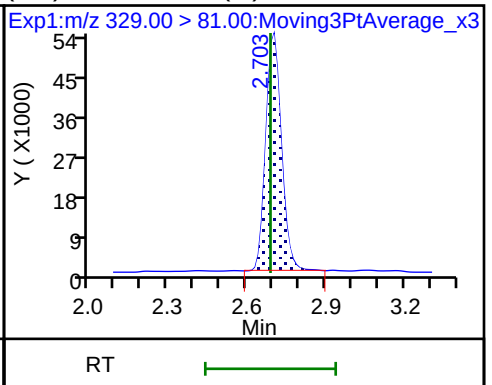
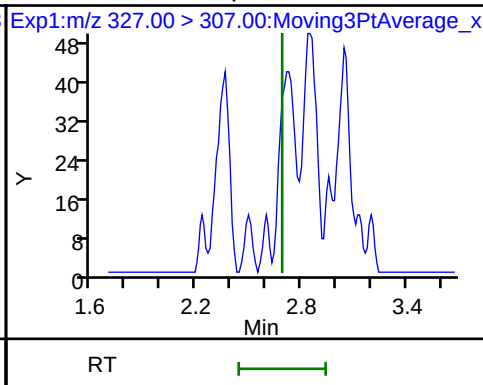
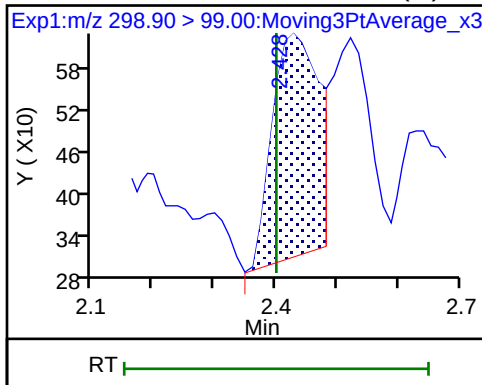
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonic acid (ND)

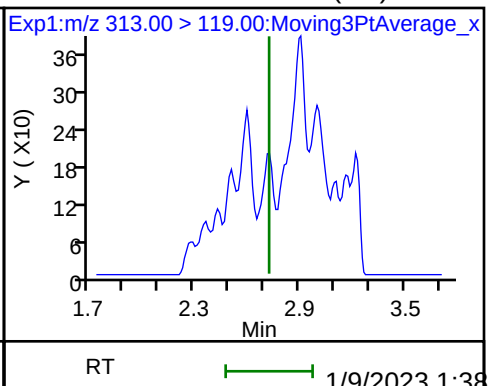
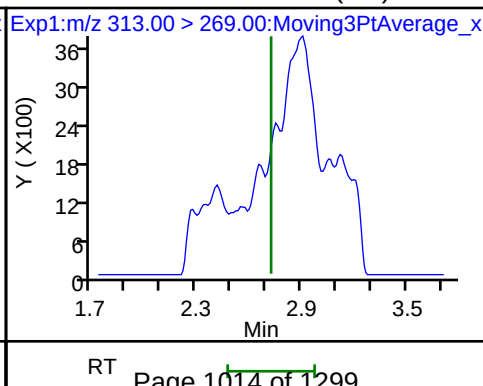
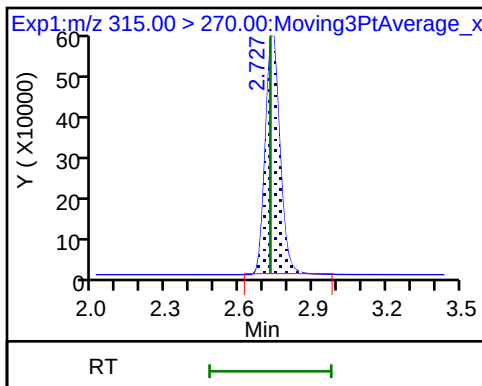
D 10 M2-4:2 FTS (M)



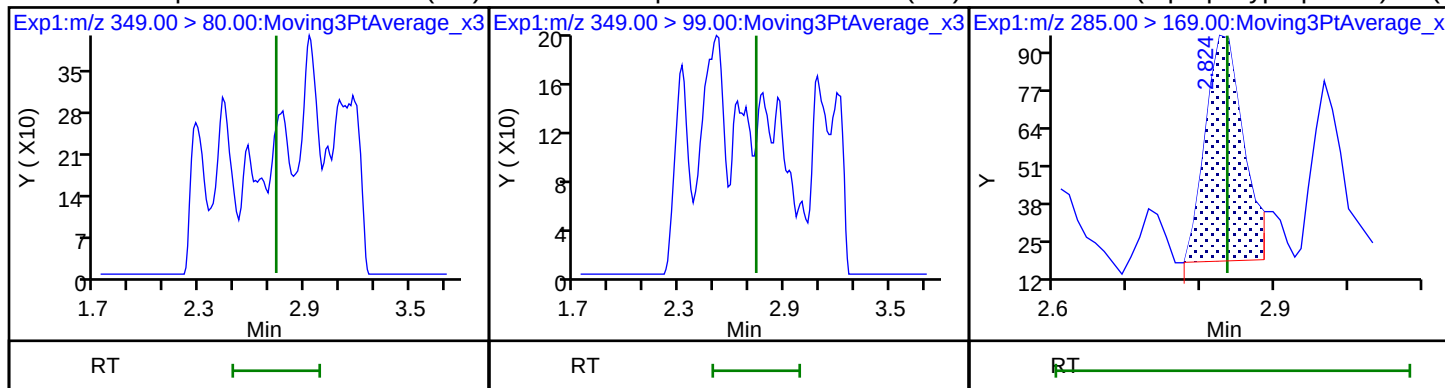
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



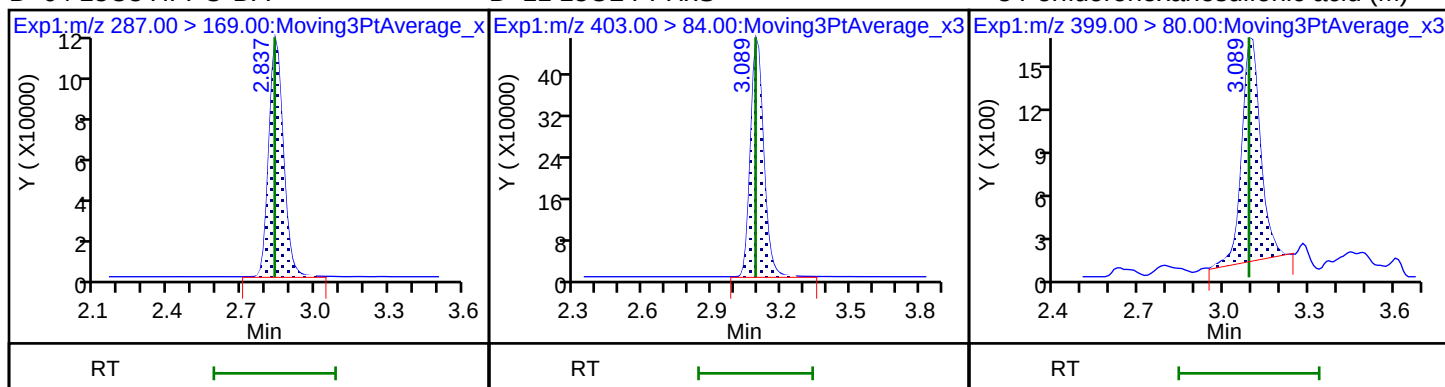
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

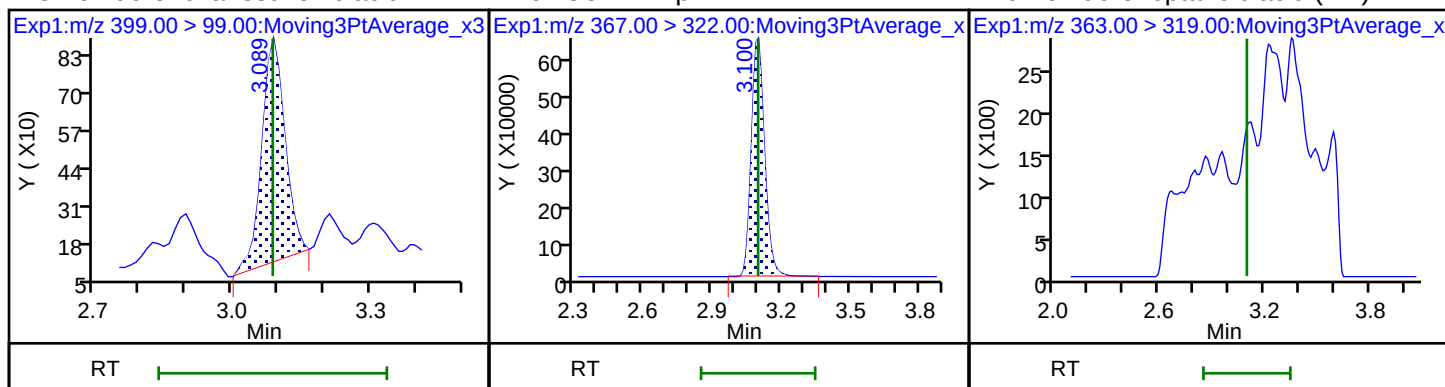
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid

D 9 13C4 PFHpA

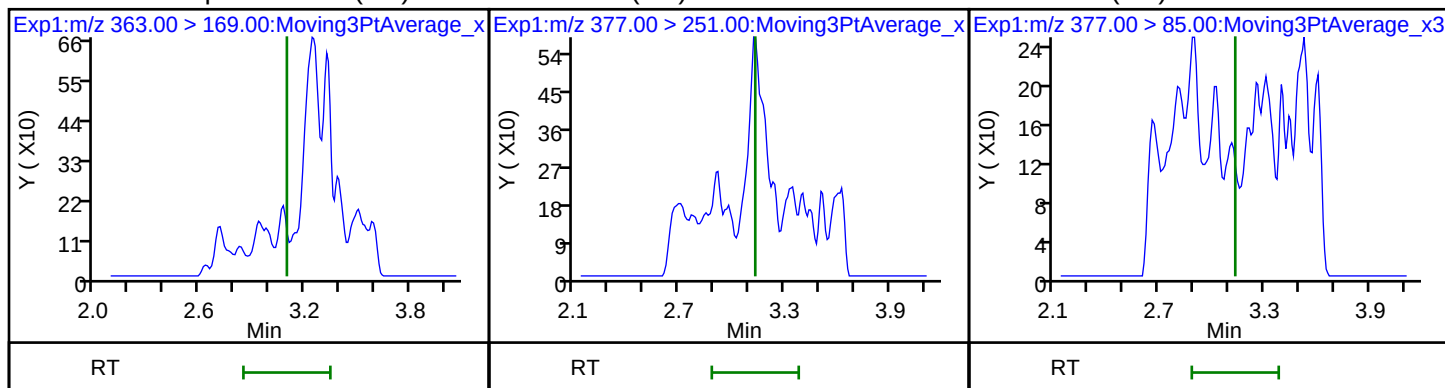
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

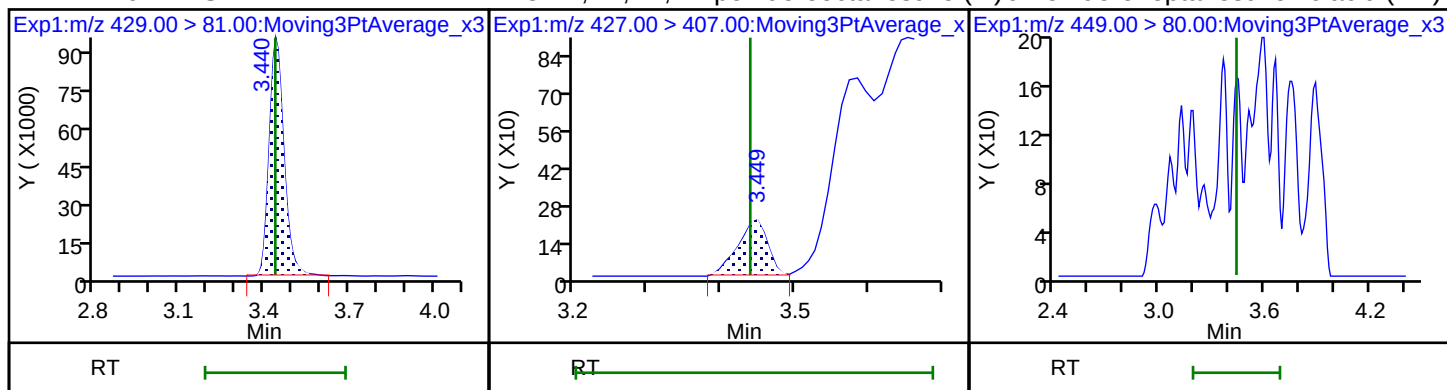
77 DONA (ND)

77 DONA (ND)



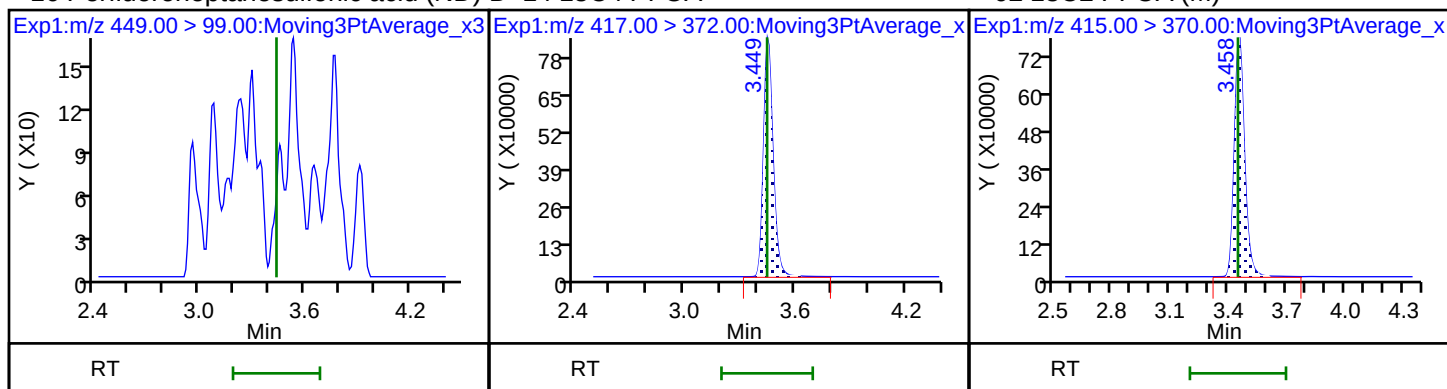
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

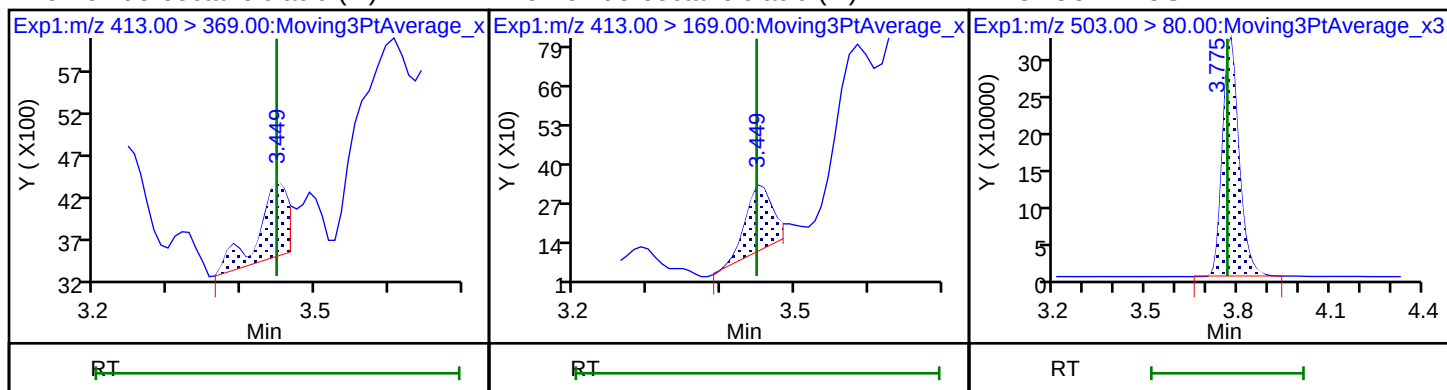
* 62 13C2 PFOA (M)



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

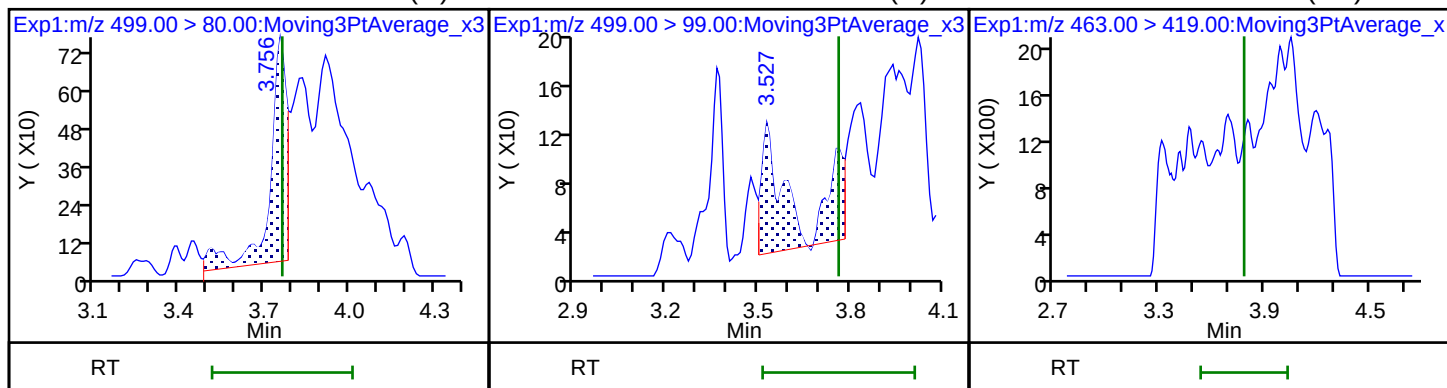
D 18 13C4 PFOS

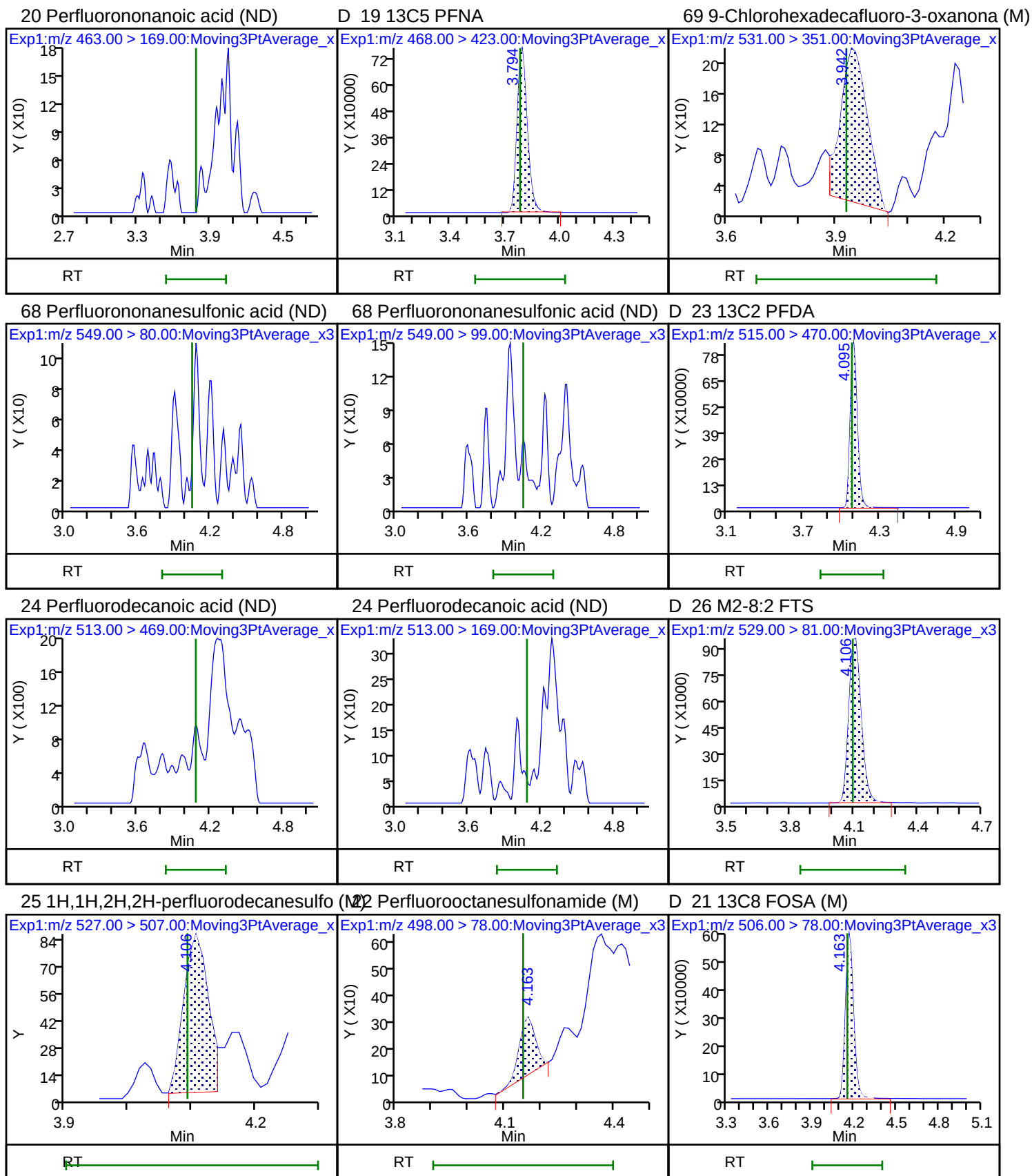


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

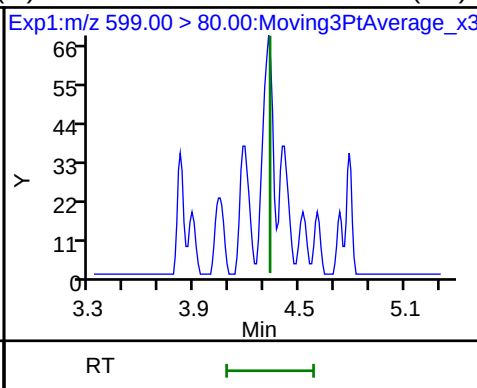
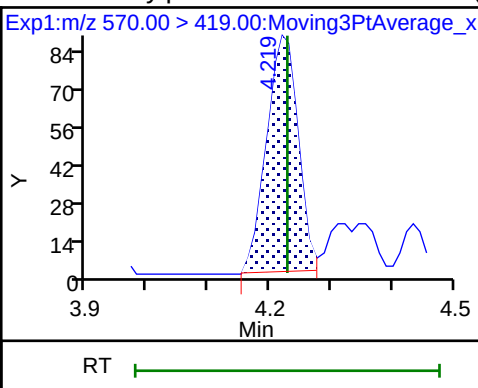
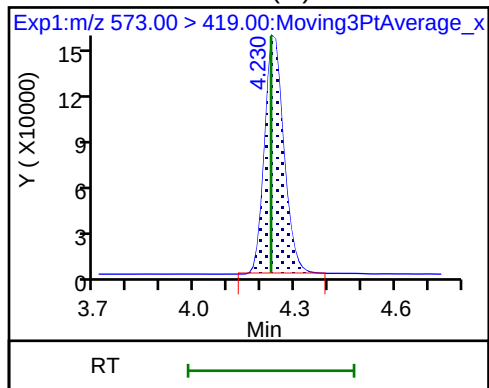




D 27 d3-NMeFOSAA (M)

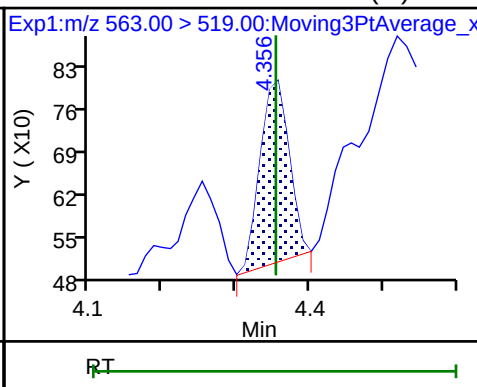
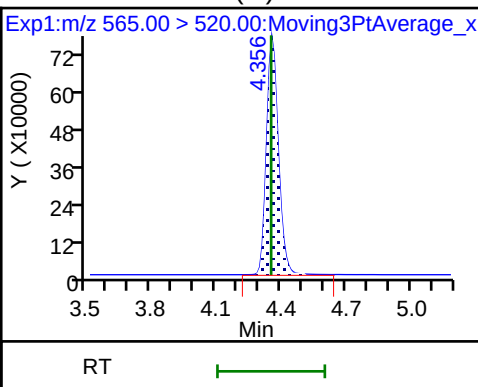
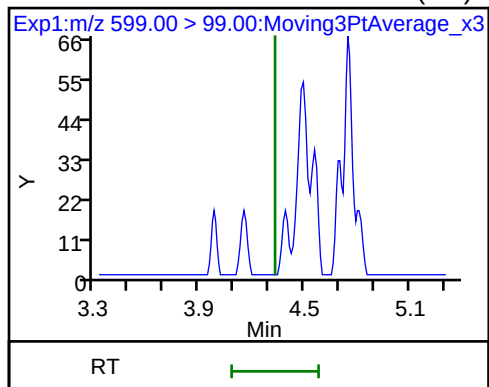
28 N-methylperfluorooctanesulfonami (M)

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA (M)

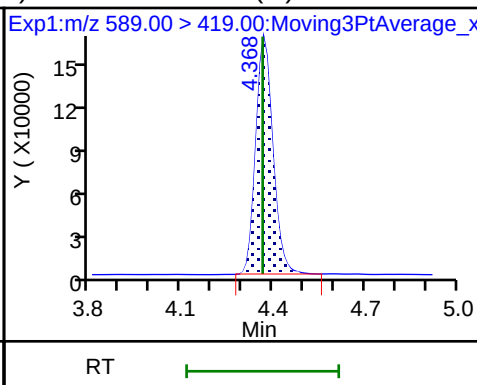
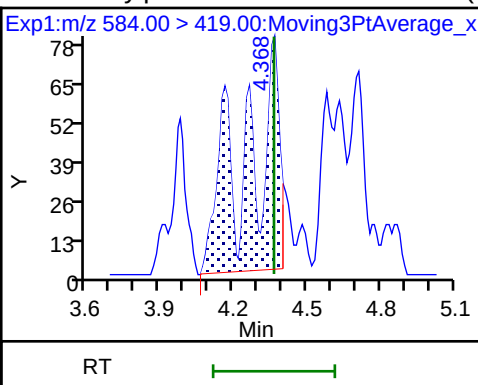
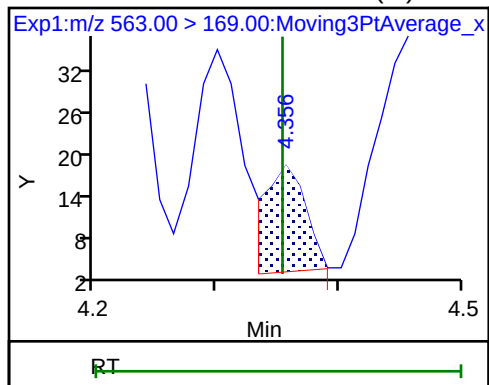
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

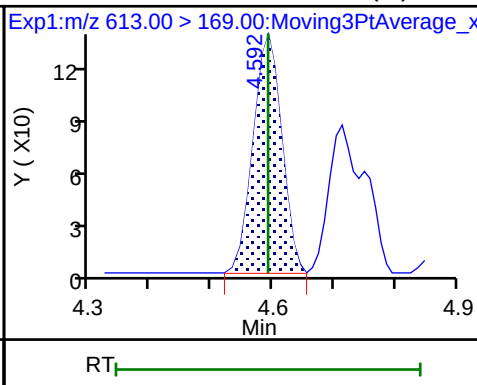
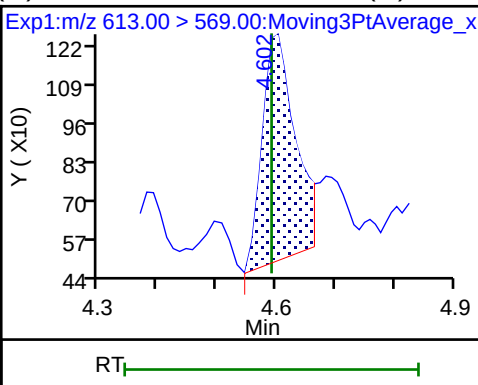
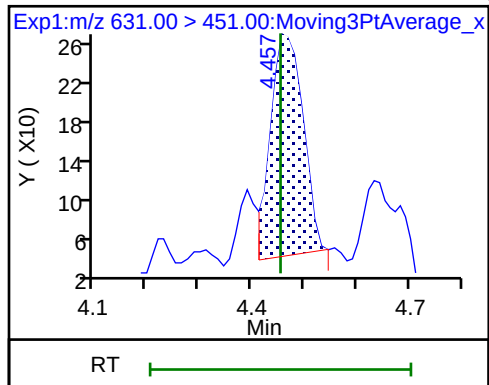
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

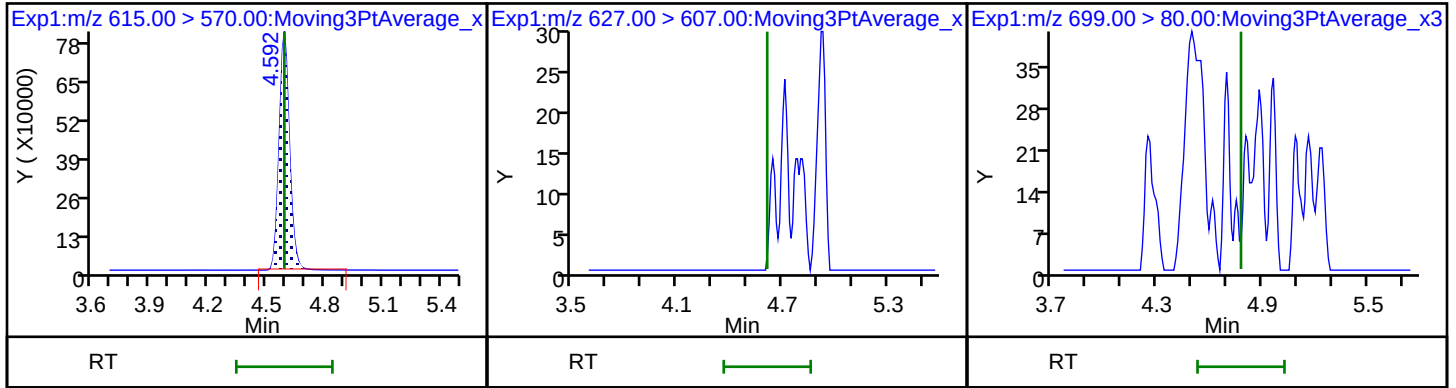
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



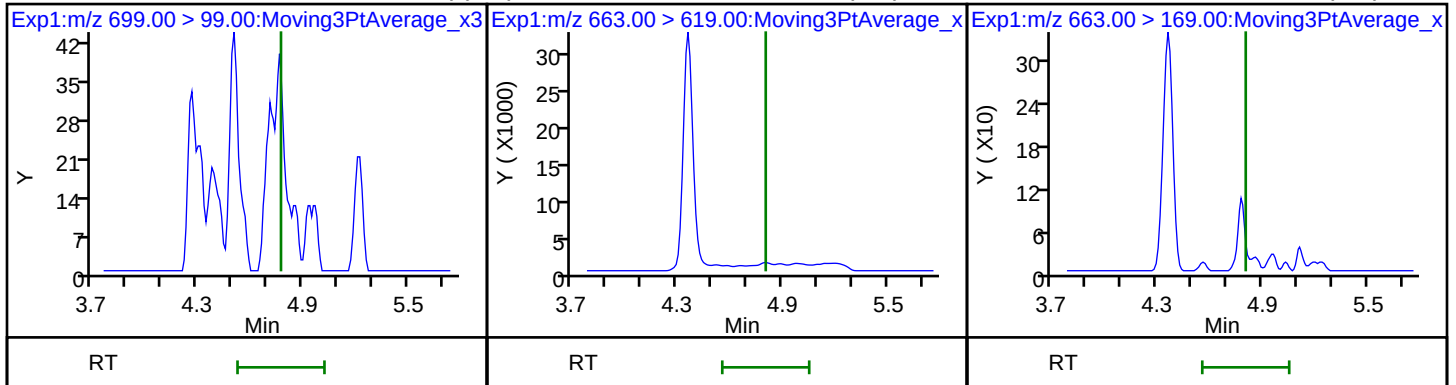
D 36 13C2 PFDaA

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



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)

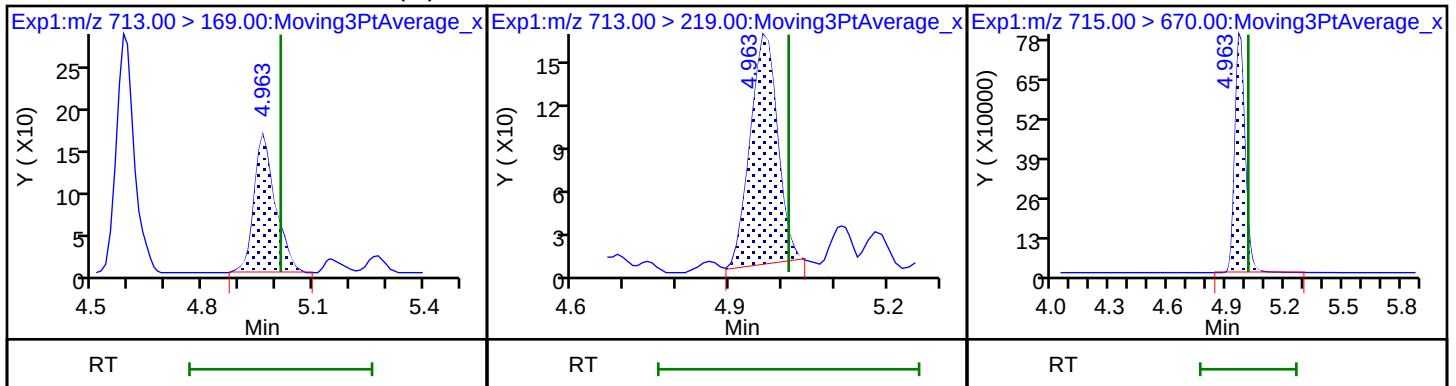
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

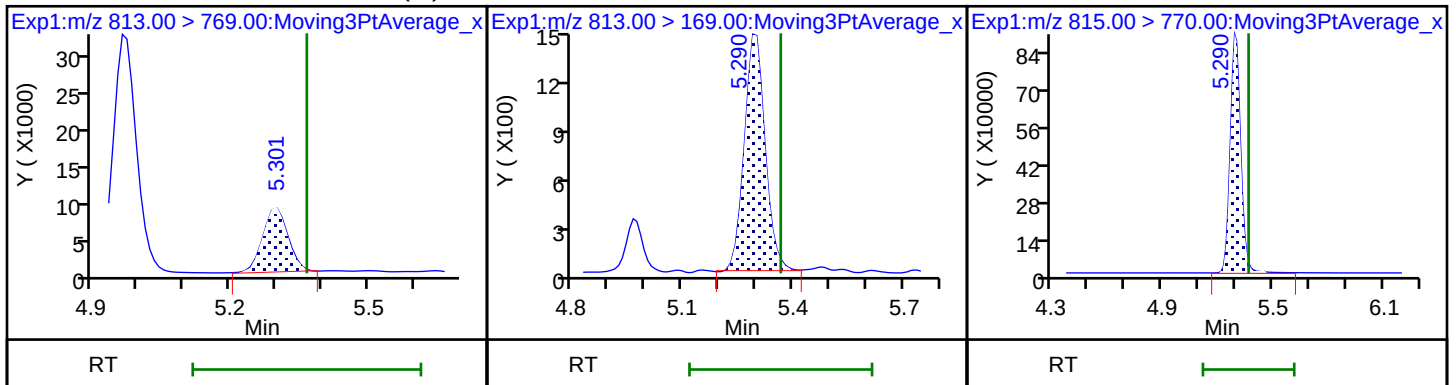
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

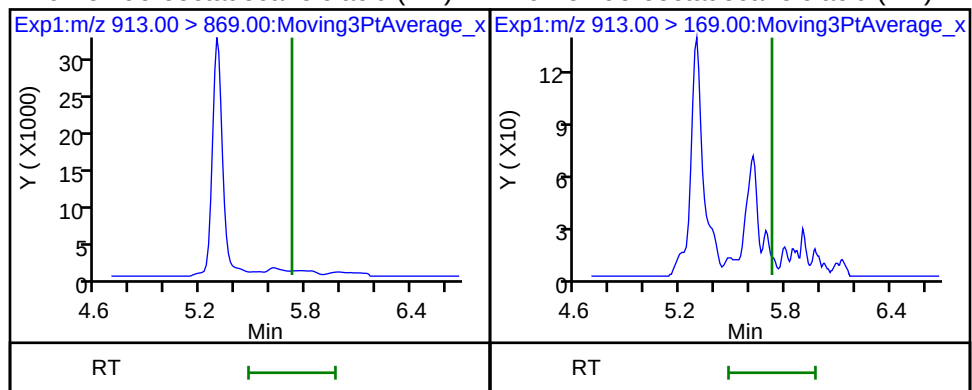
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d

Injection Date: 05-Jan-2023 15:13:55

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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)

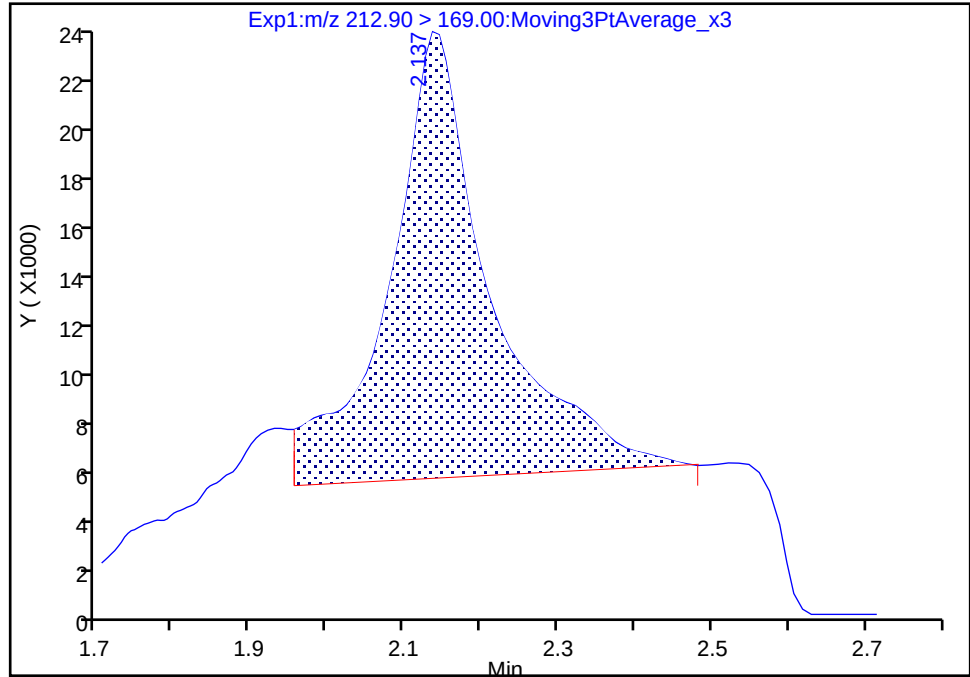
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

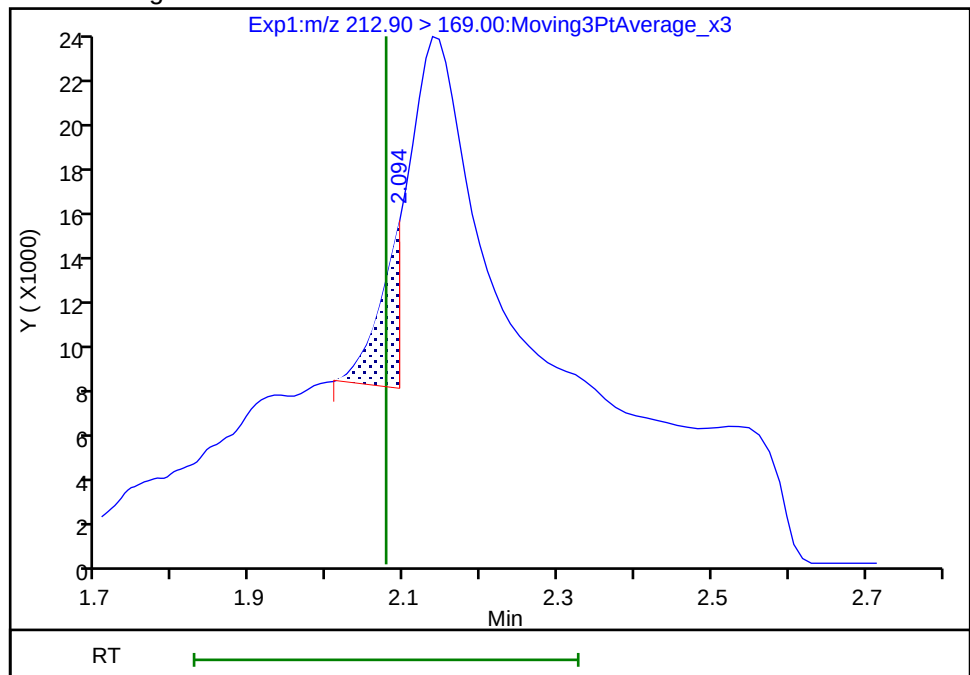
RT: 2.14
Area: 162637
Amount: 0.068802
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 12868
Amount: 0.005444
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:15:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

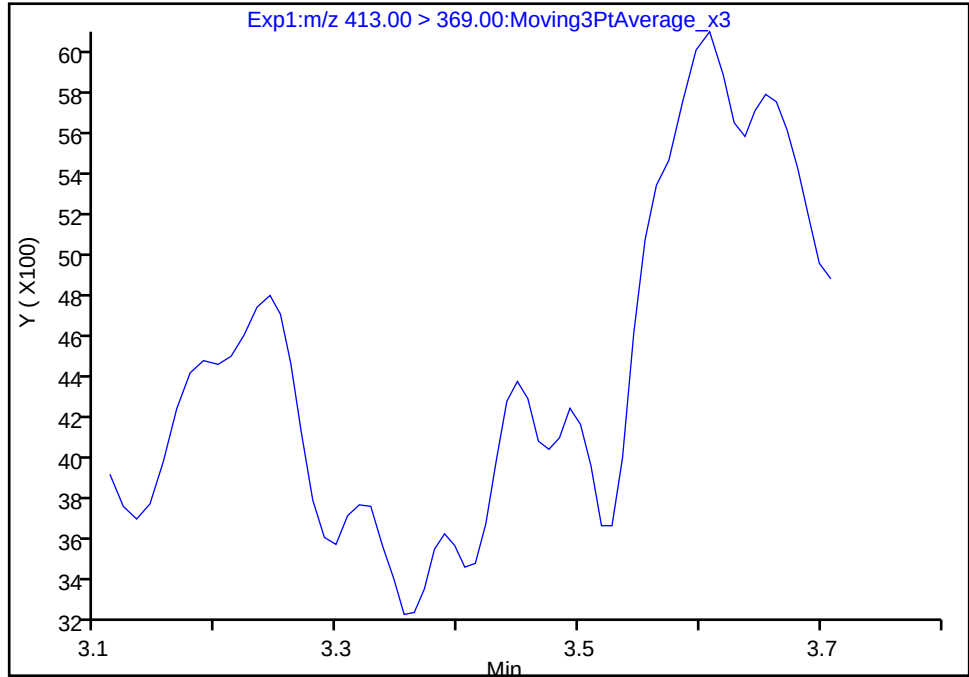
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

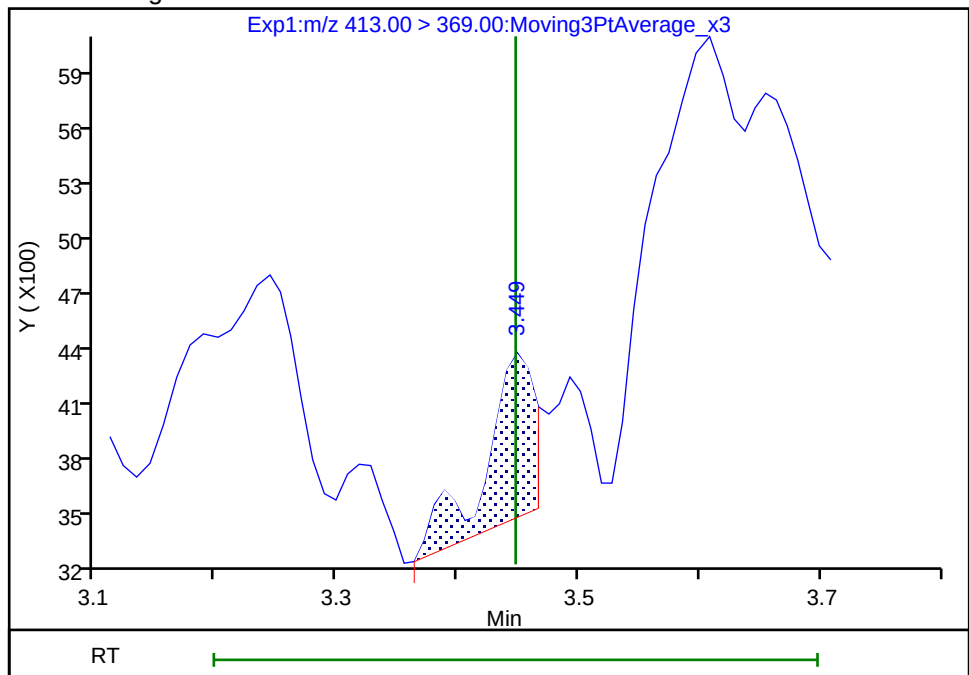
Signal: 1

Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:17:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1022 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

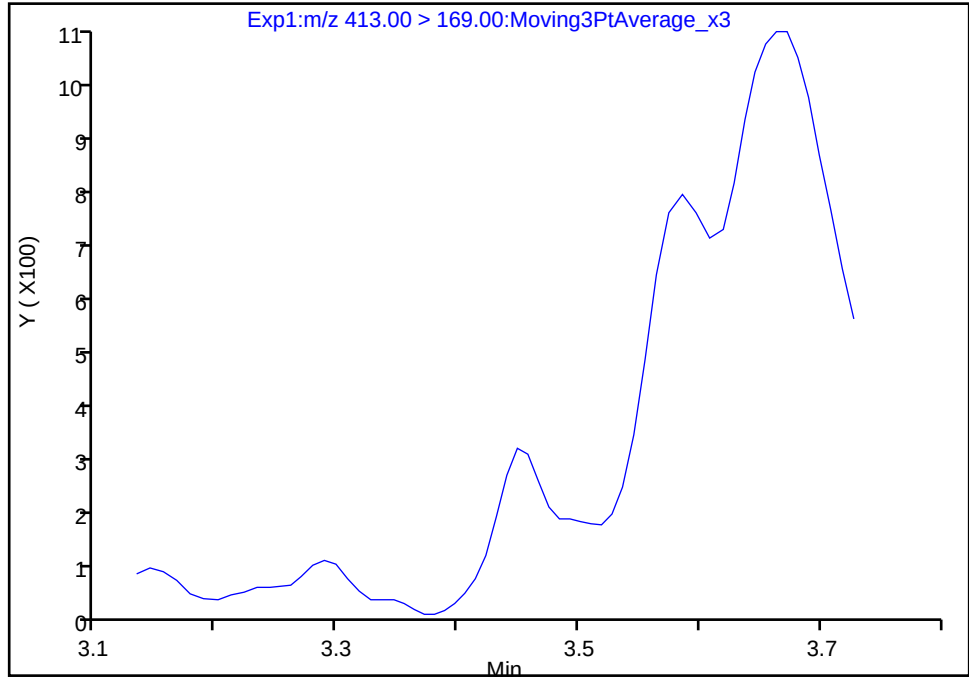
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Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

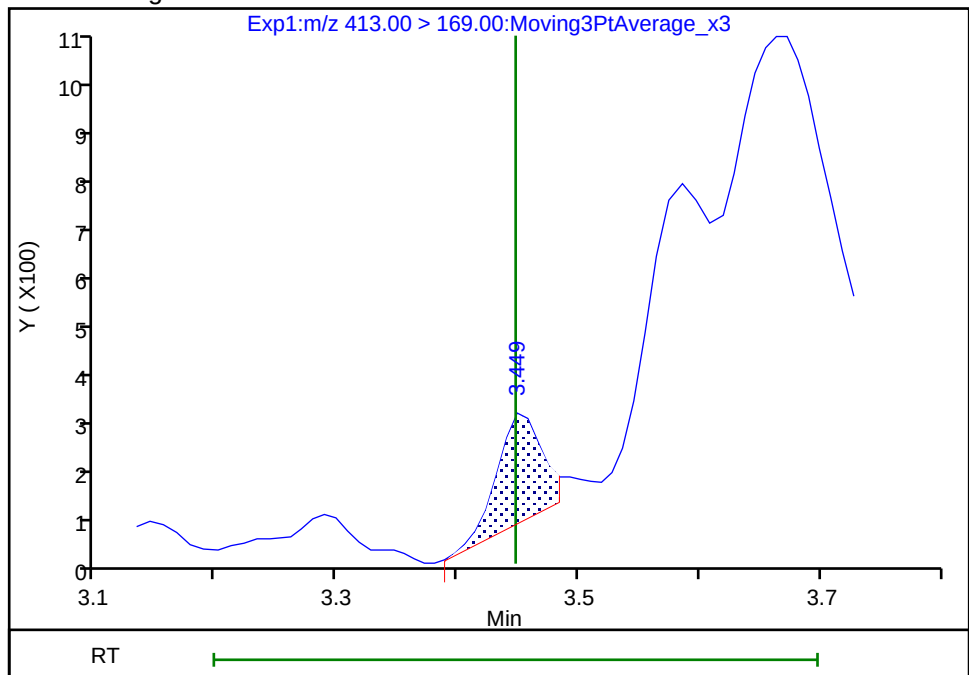
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 577
Amount: 0.000912
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 11:17:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1023 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

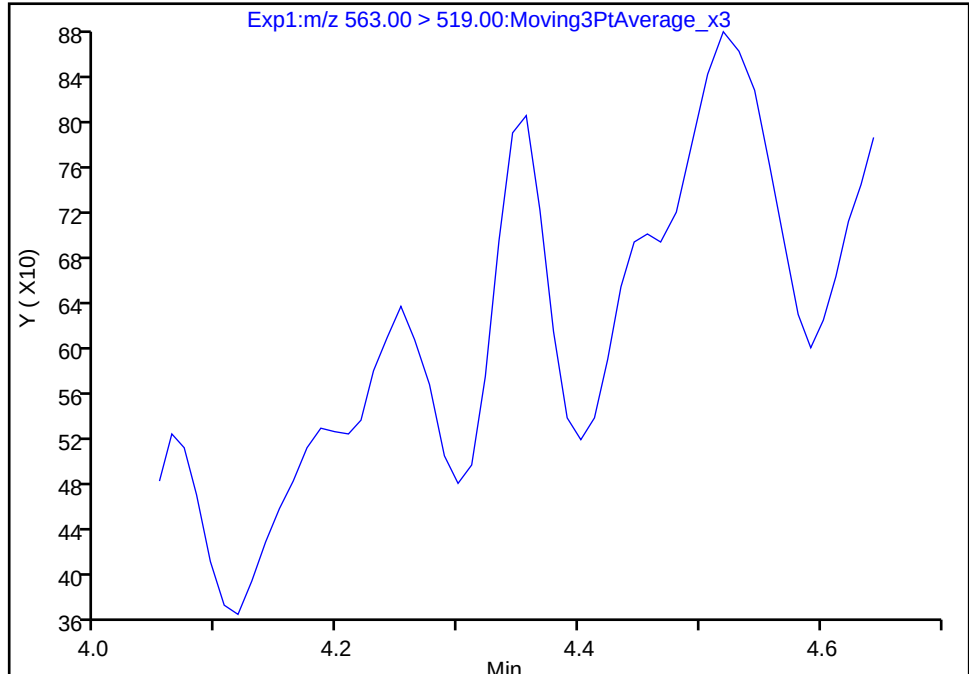
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Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

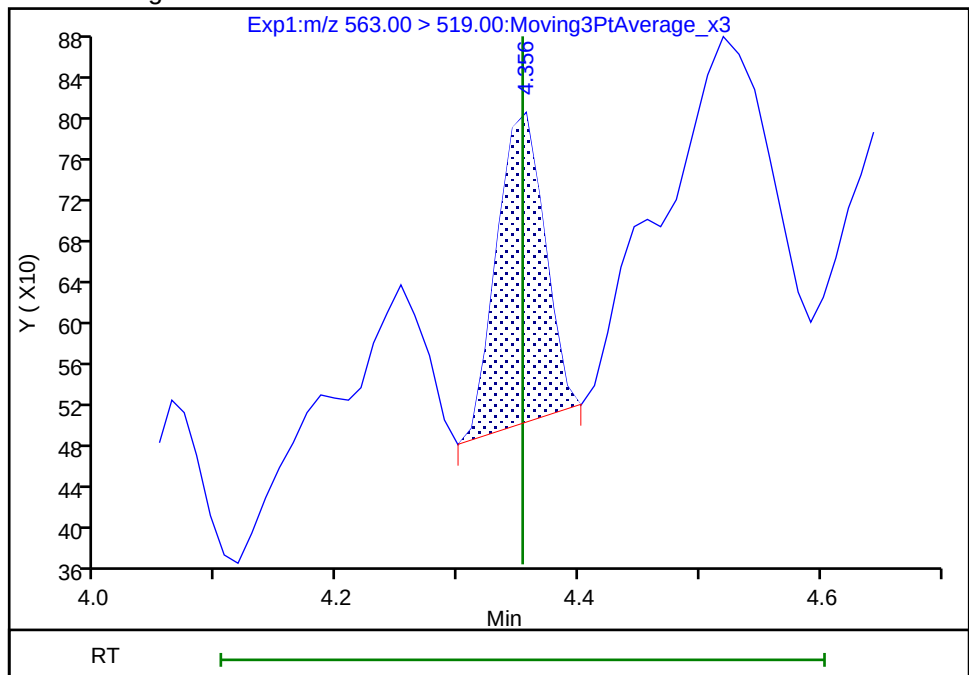
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.36
Area: 827
Amount: 0.000350
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 11:19:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

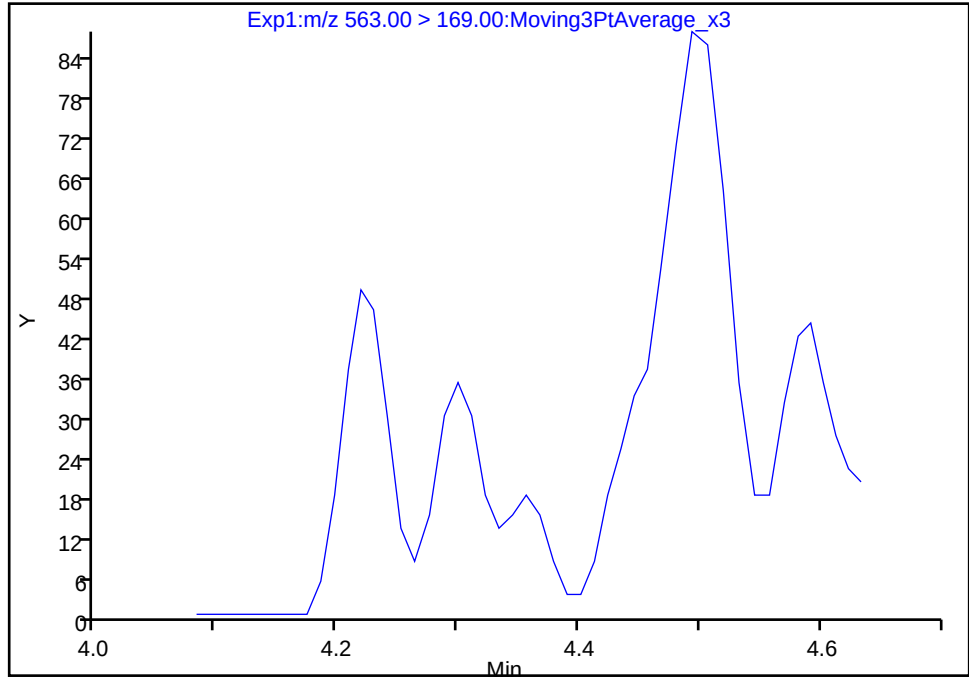
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

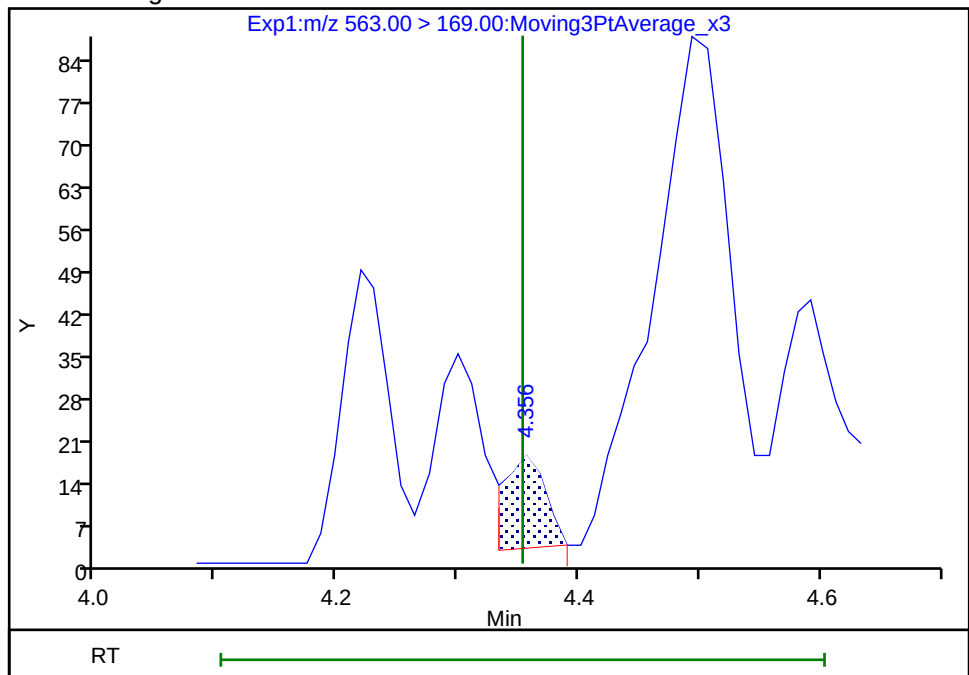
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 34
Amount: 0.000350
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 11:19:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

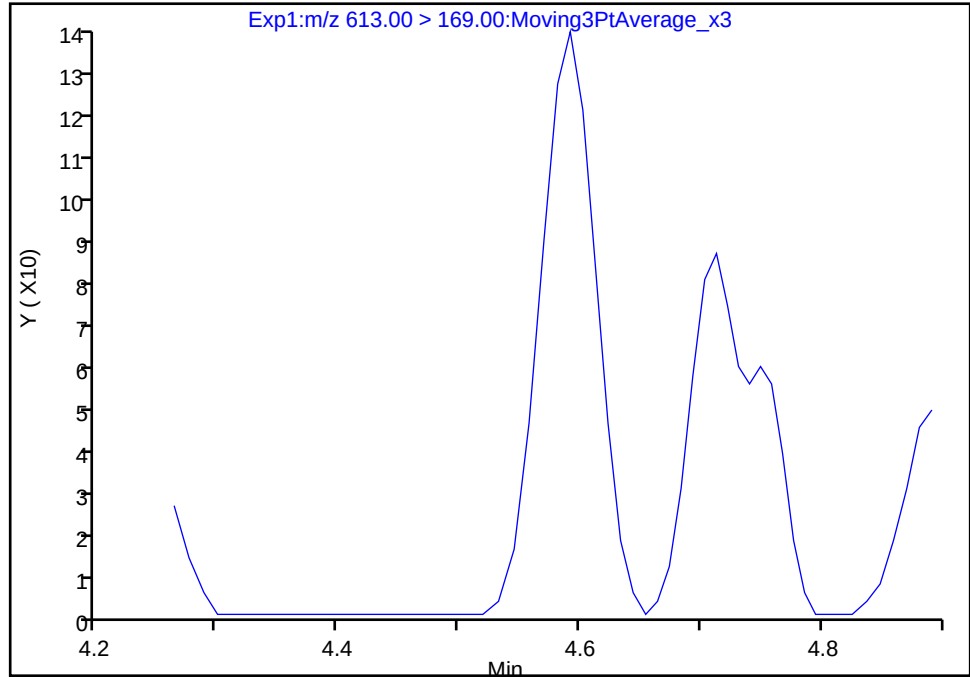
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

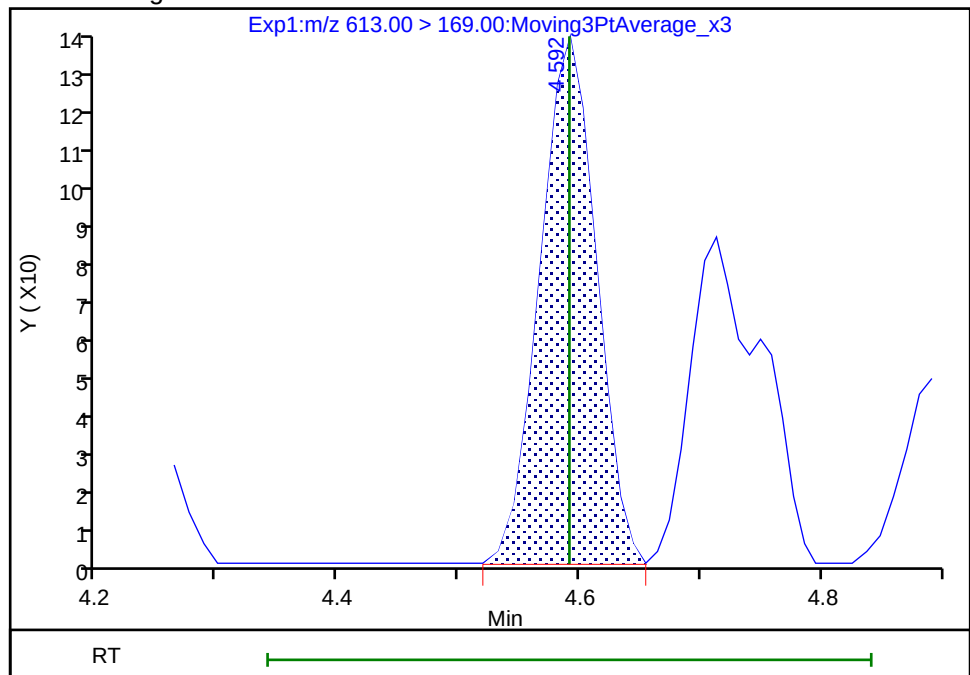
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 434
Amount: 0.001147
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 11:20:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

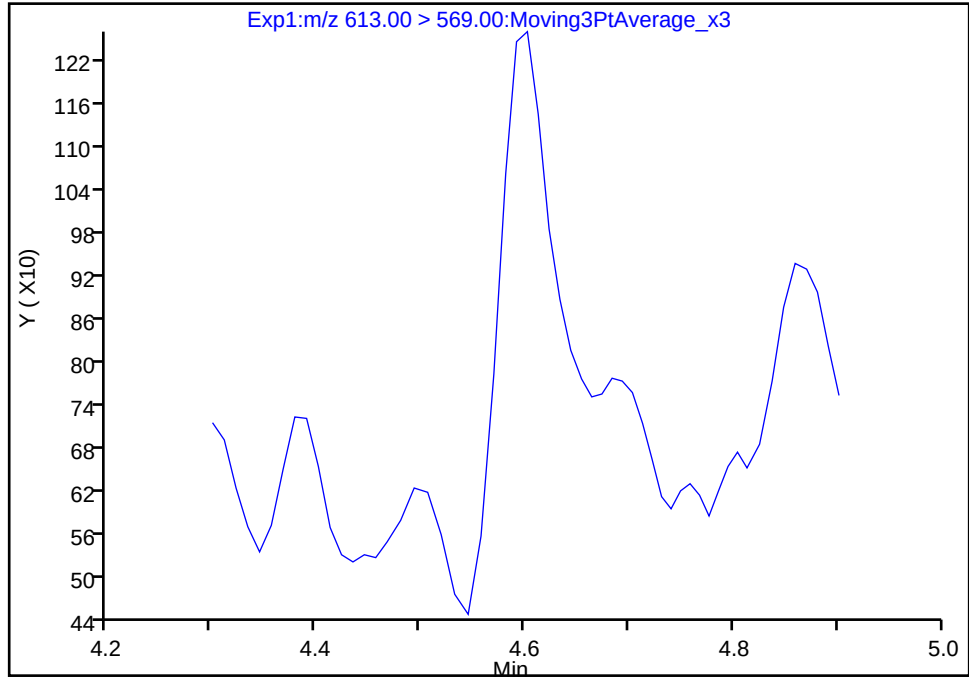
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

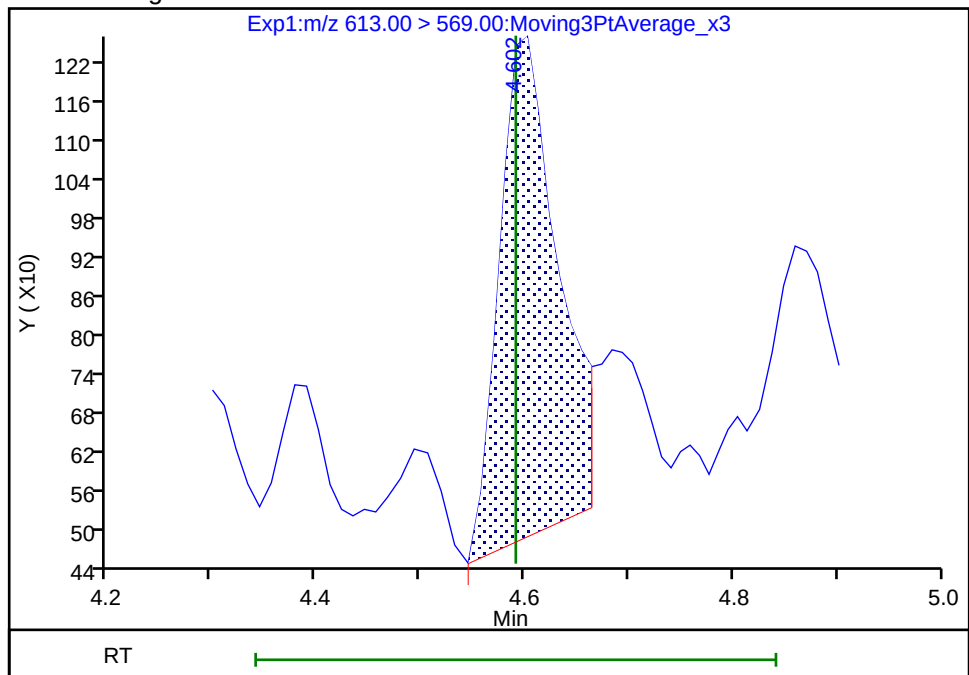
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 2983
Amount: 0.001147
Amount Units: ng/ml



Reviewer: nampitakw, 06-Jan-2023 11:20:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

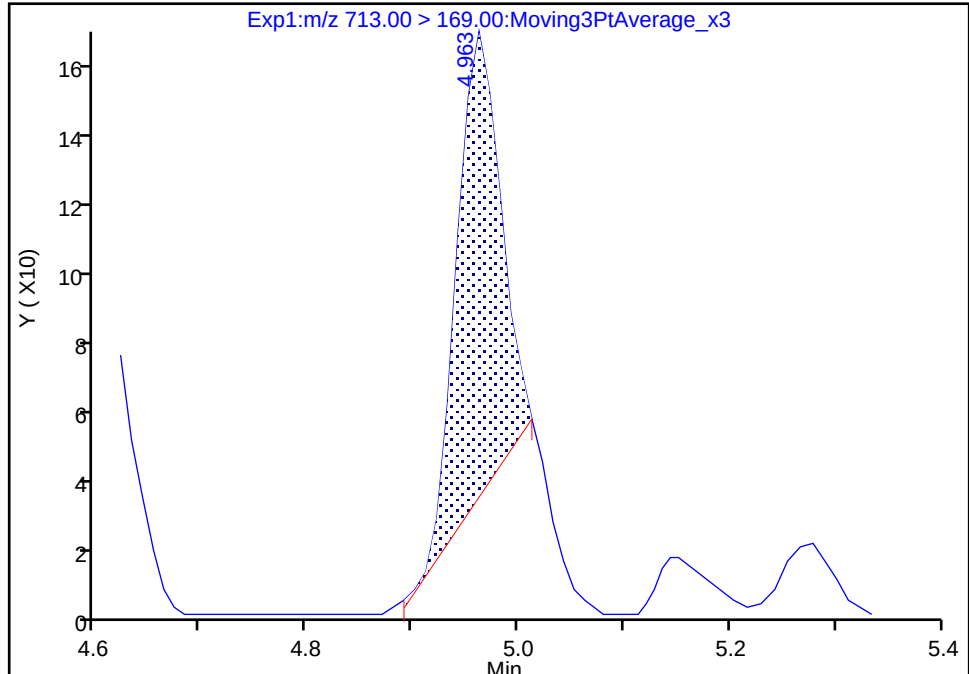
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

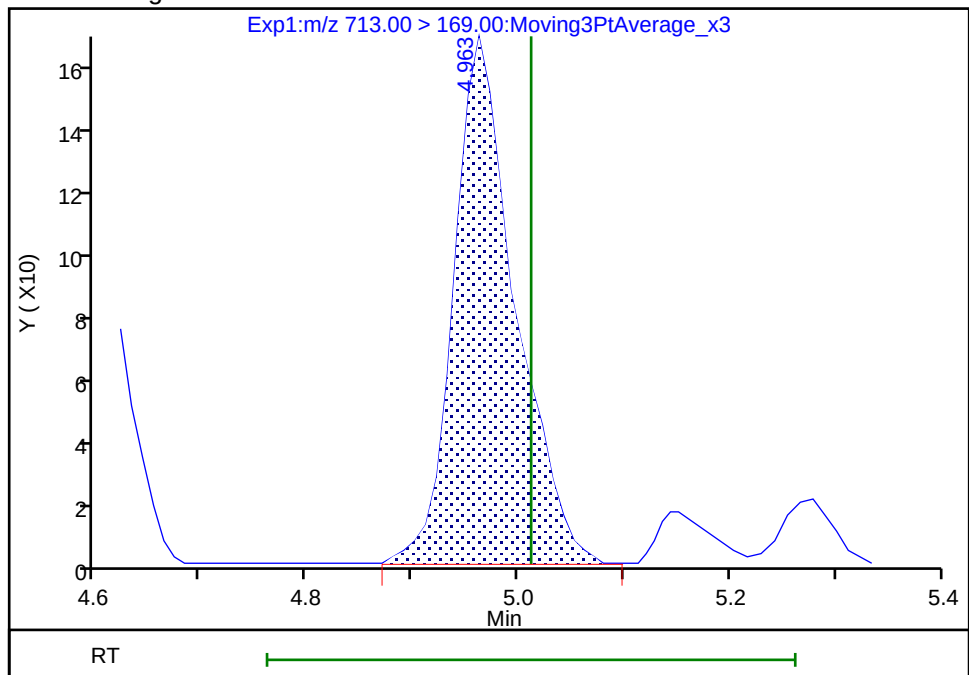
RT: 4.96
Area: 375
Amount: 0.001195
Amount Units: ng/ml

Processing Integration Results



RT: 4.96
Area: 659
Amount: 0.002099
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:20:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

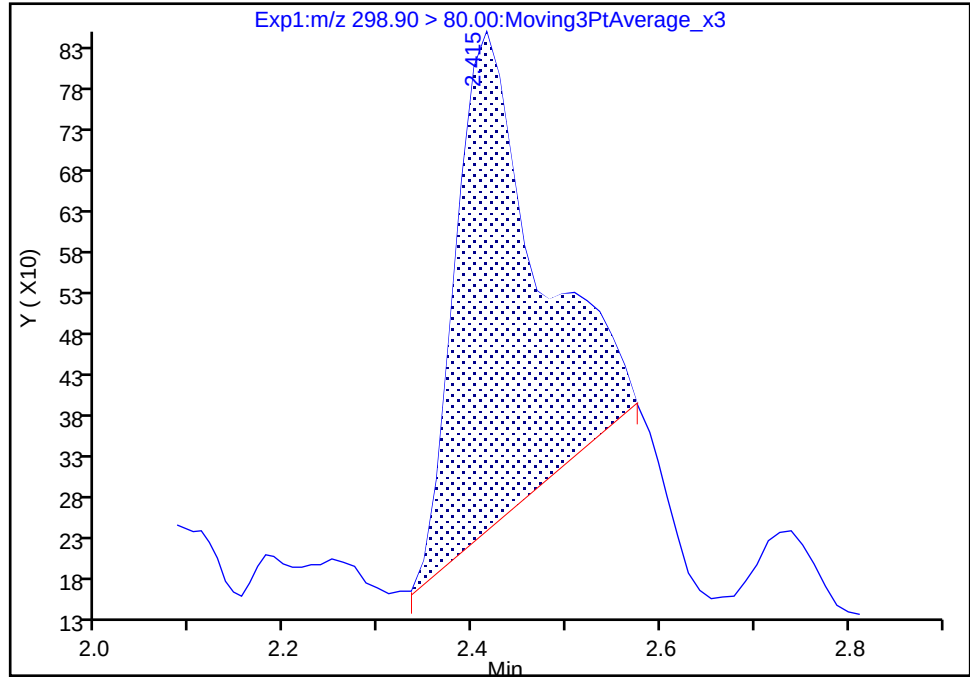
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

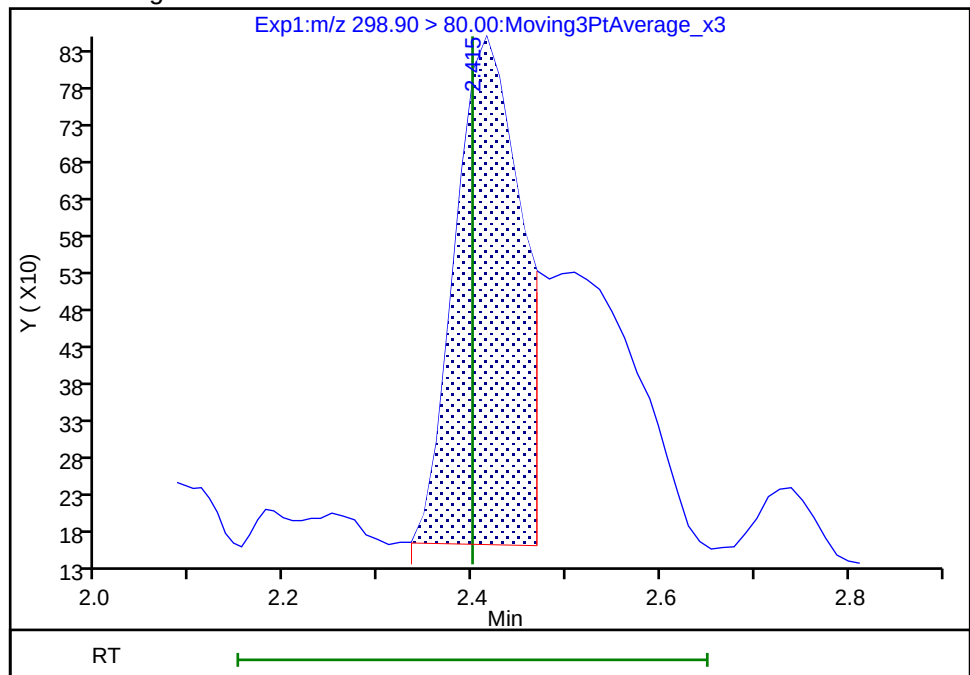
RT: 2.41
Area: 3730
Amount: 0.001569
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 3238
Amount: 0.001362
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:16:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

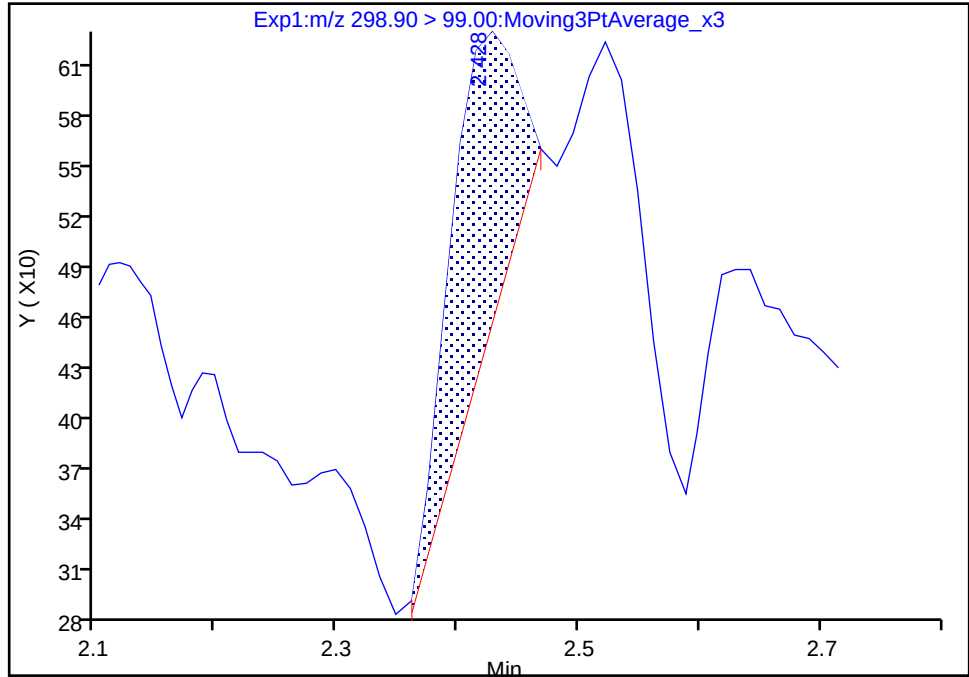
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

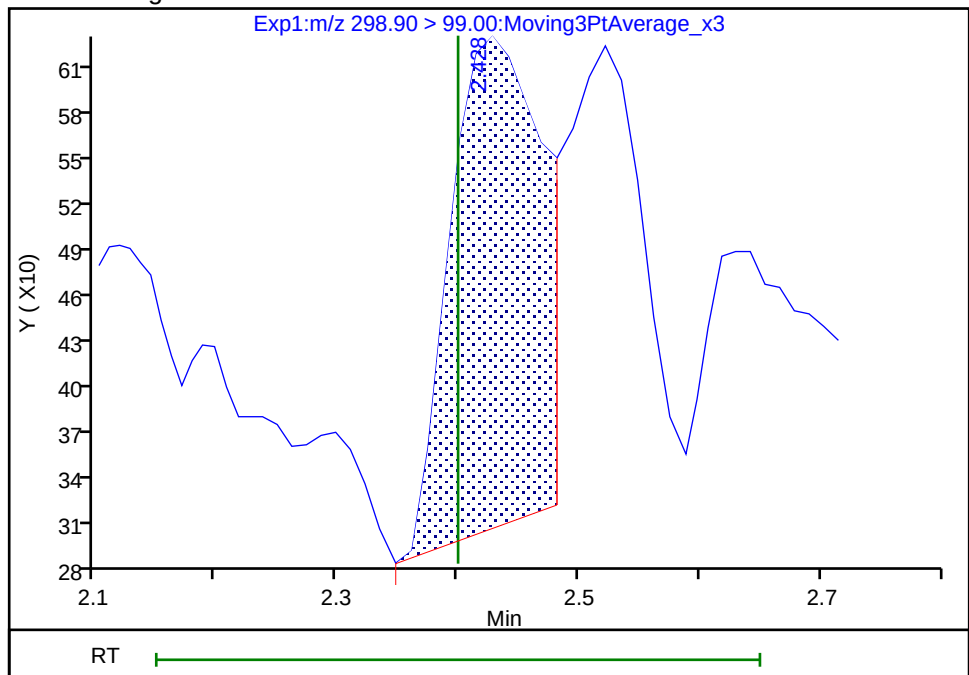
RT: 2.43
Area: 696
Amount: 0.001569
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 1625
Amount: 0.001362
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:16:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

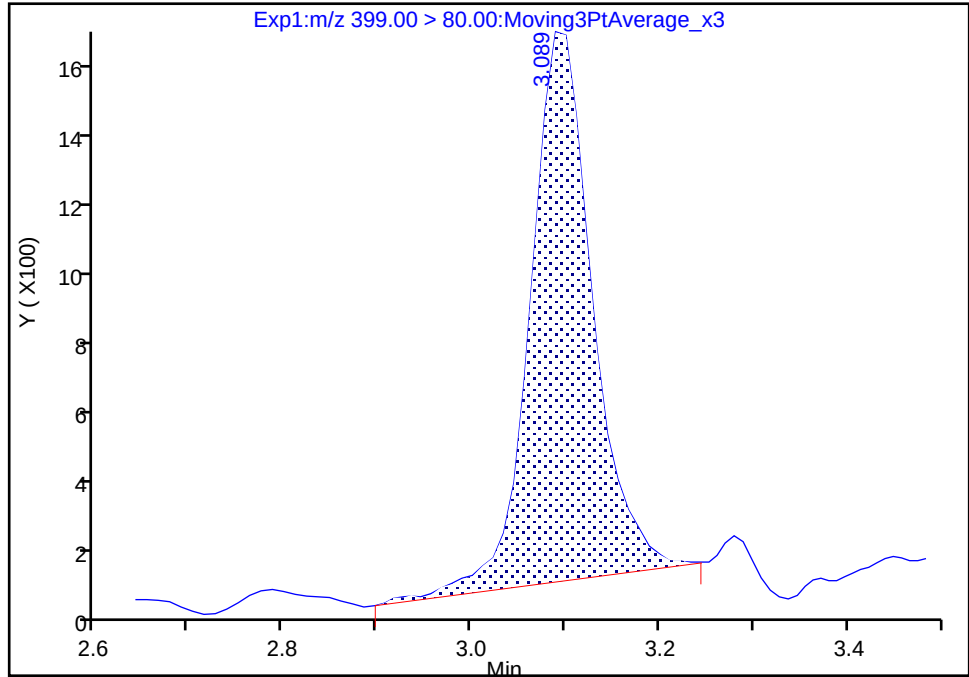
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

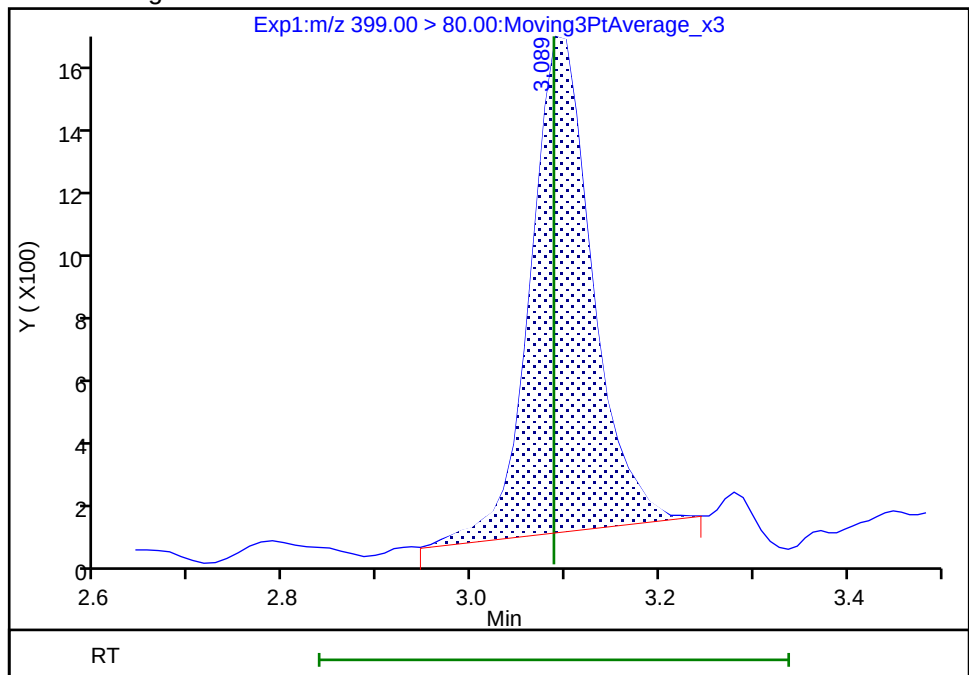
RT: 3.09
Area: 7231
Amount: 0.004109
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 7133
Amount: 0.004053
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:16:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

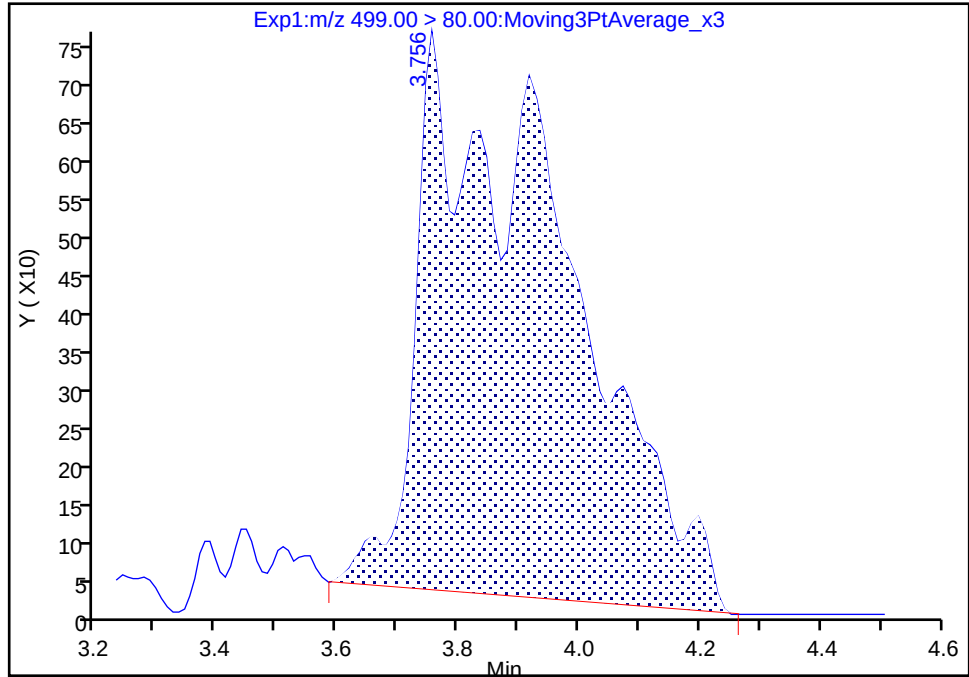
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

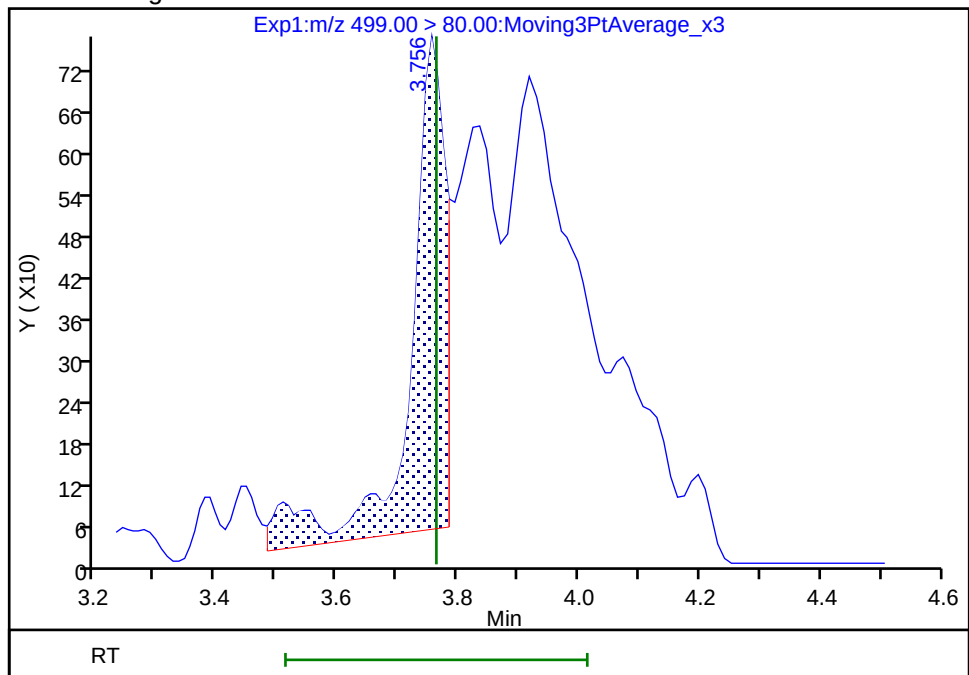
RT: 3.76
Area: 12444
Amount: 0.009966
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 2819
Amount: 0.002258
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:18:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

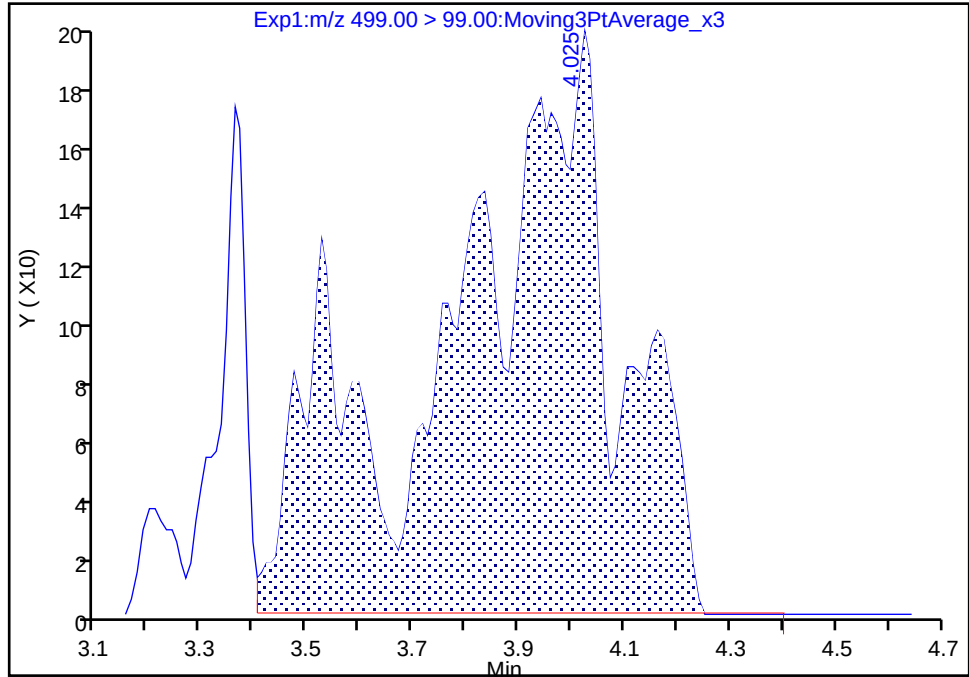
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

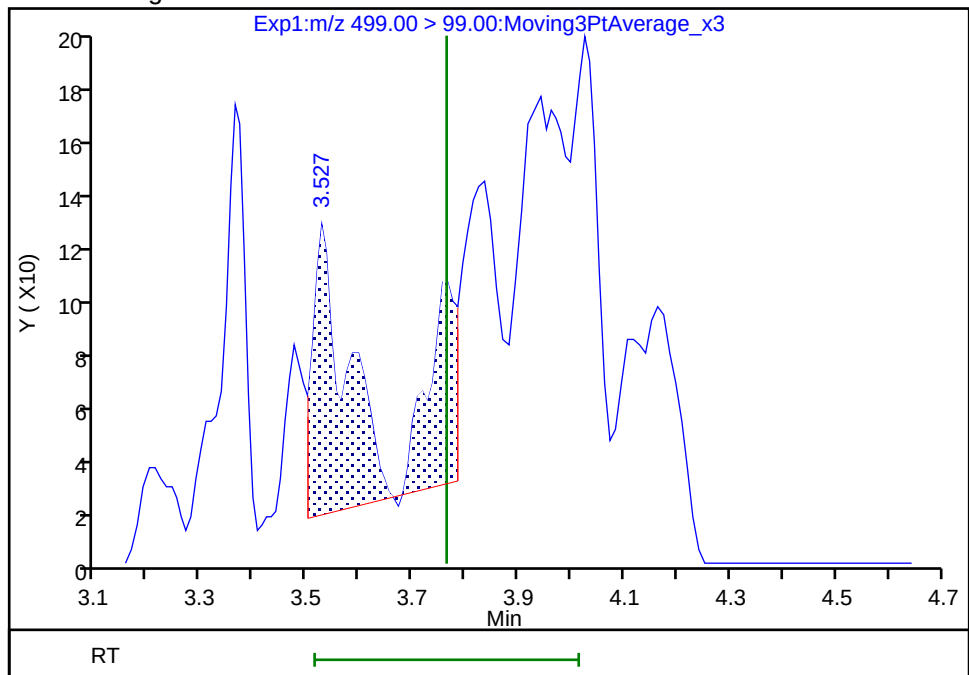
RT: 4.03
Area: 4381
Amount: 0.009966
Amount Units: ng/ml

Processing Integration Results



RT: 3.53
Area: 743
Amount: 0.002258
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:18:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

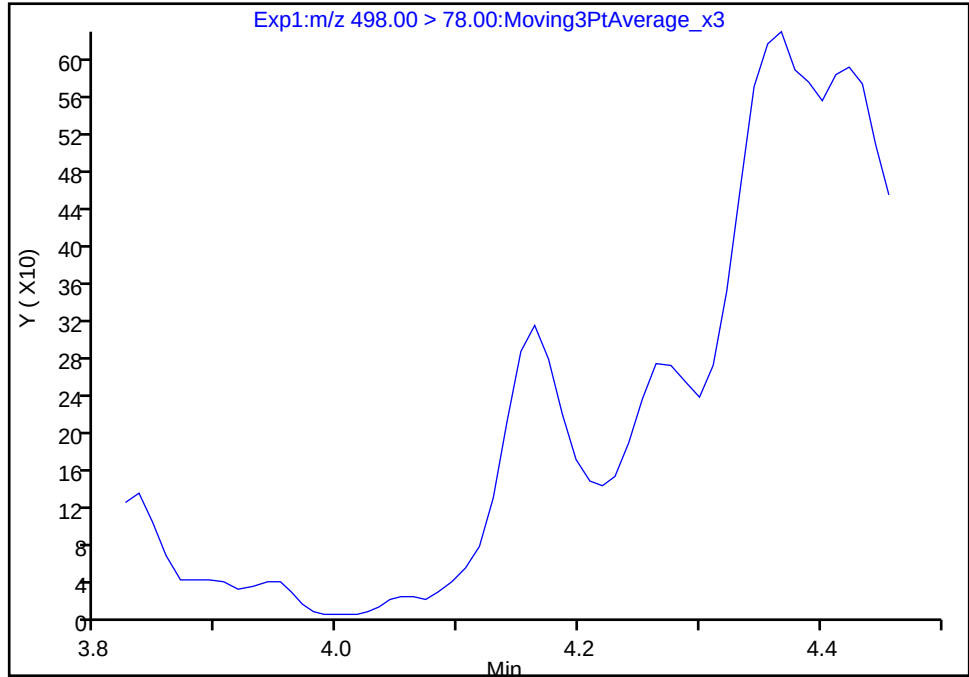
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

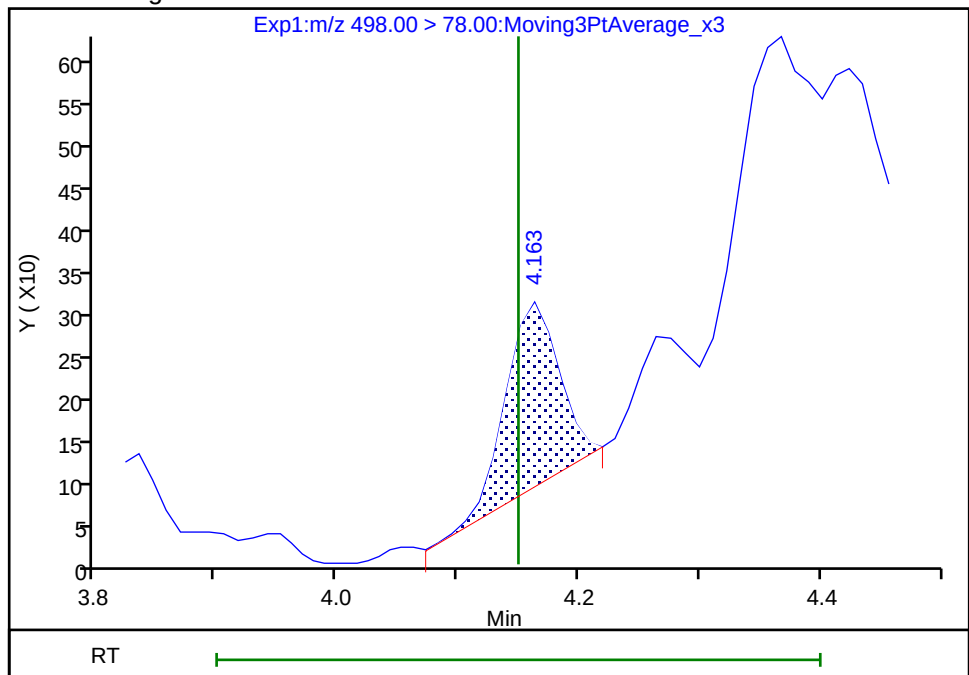
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



RT: 4.16
Area: 672
Amount: 0.000336
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 11:19:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

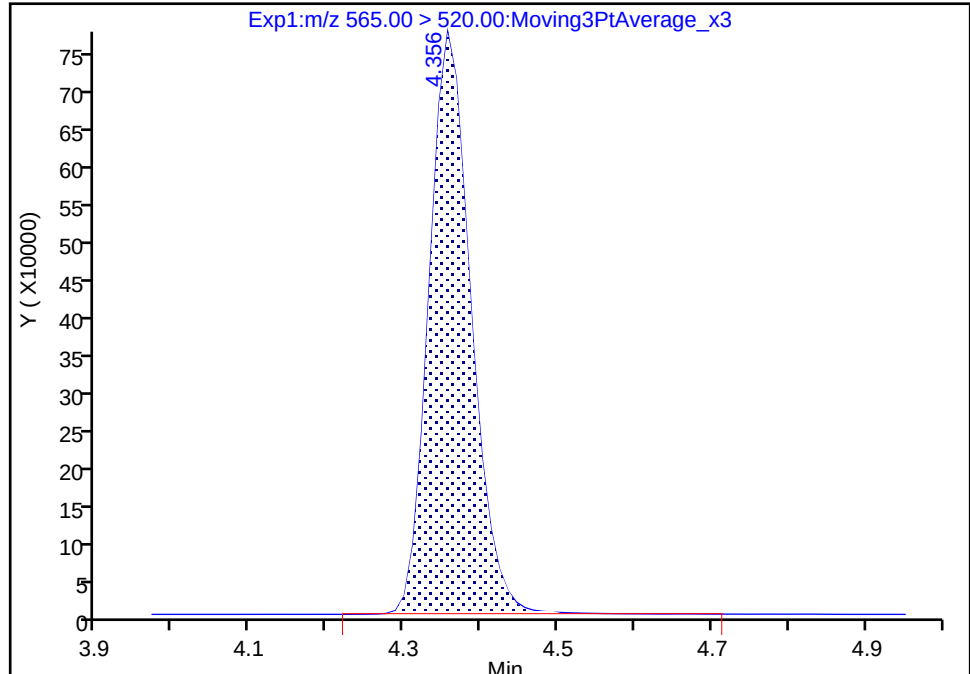
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

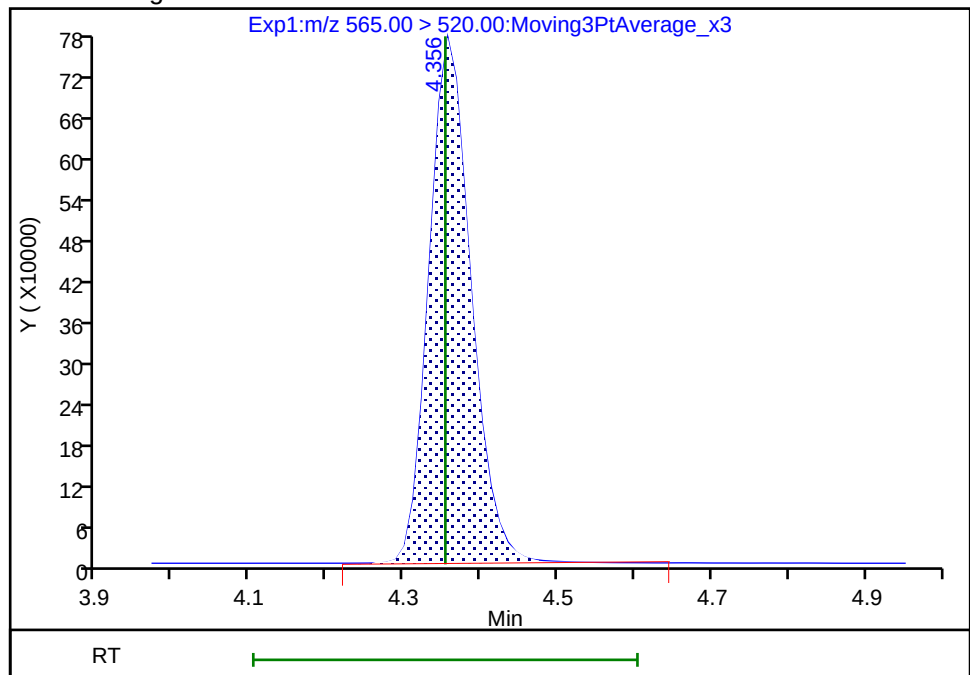
RT: 4.36
Area: 2933179
Amount: 1.357198
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 2929821
Amount: 1.356452
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:14:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

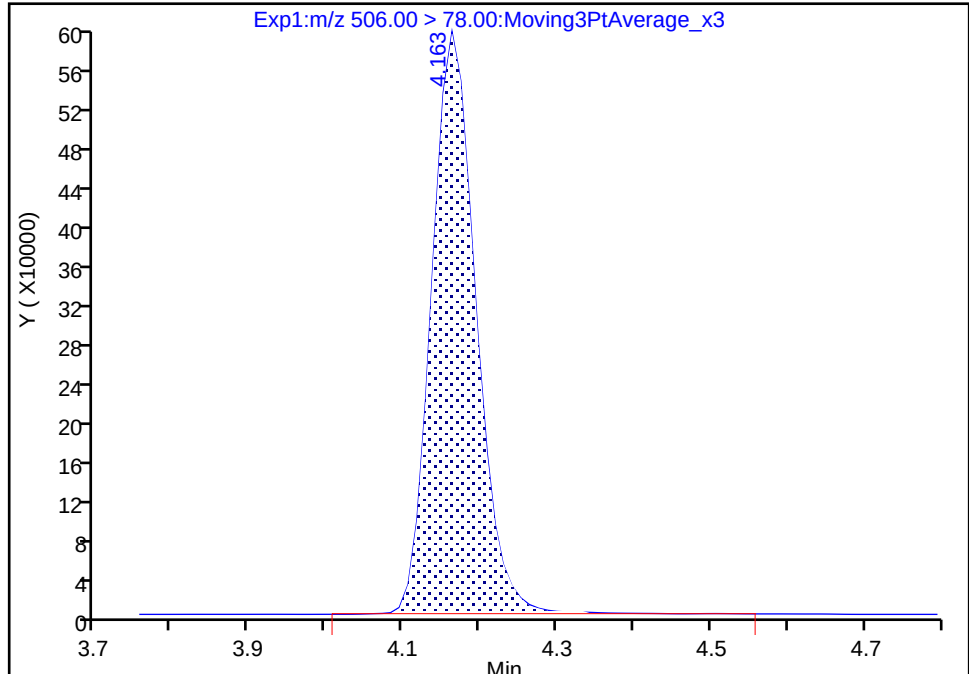
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

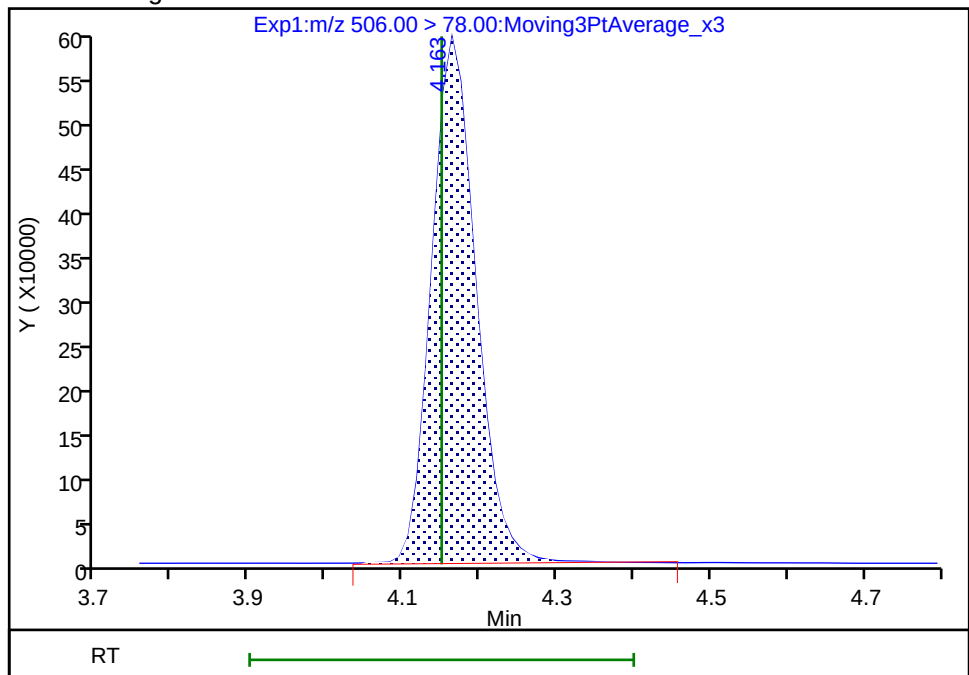
RT: 4.16
Area: 2397592
Amount: 1.239095
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 2392962
Amount: 1.237439
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:14:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d

Injection Date: 05-Jan-2023 15:13:55

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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)

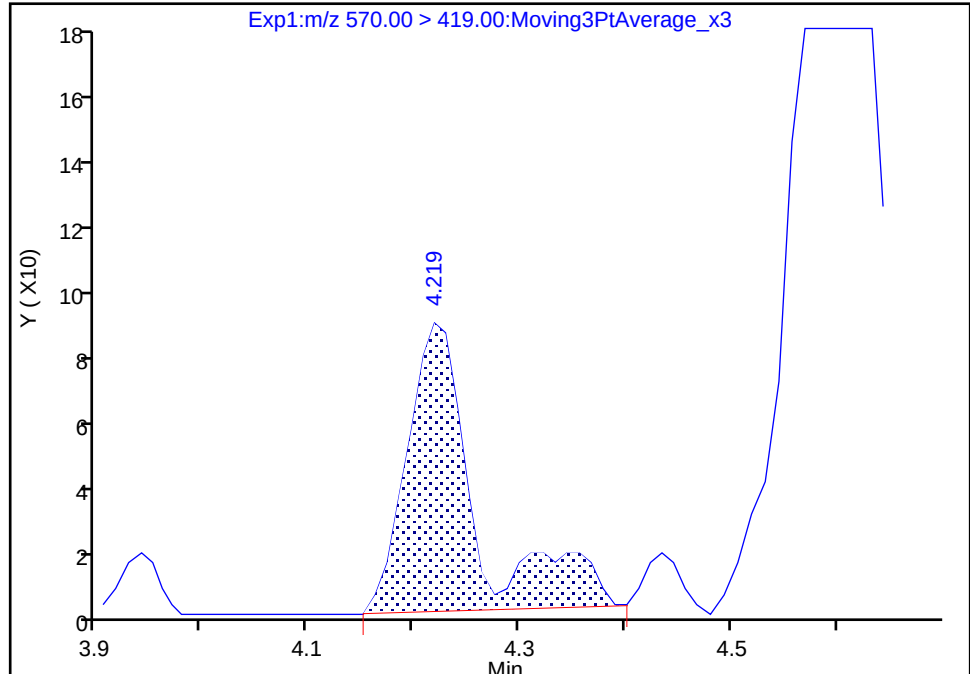
Detector: EXP1

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

Signal: 1

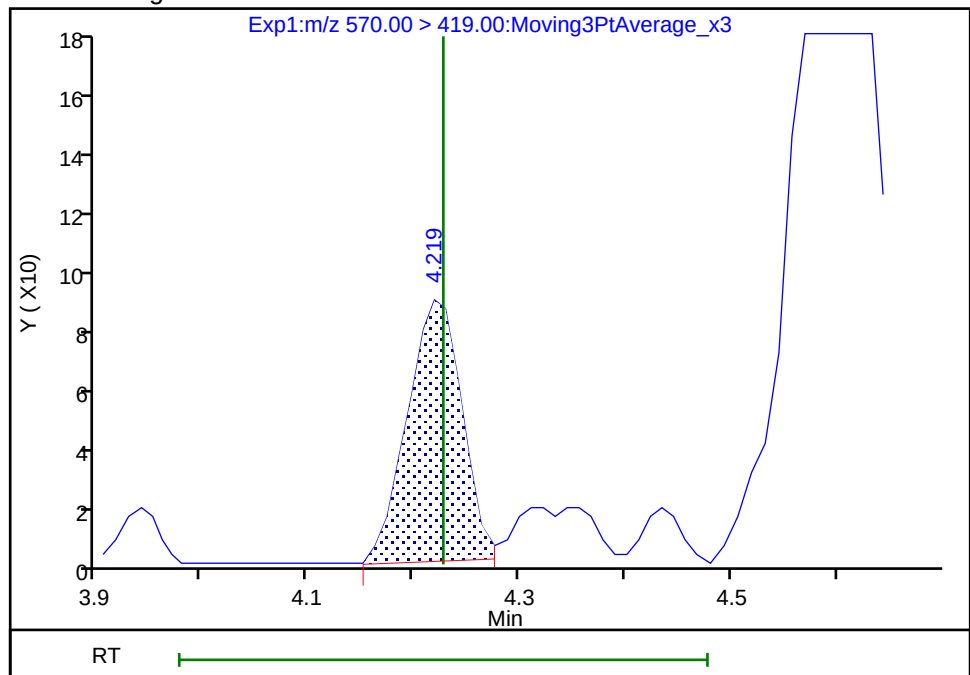
RT: 4.22
Area: 402
Amount: -0.010656
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 320
Amount: -0.010854
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:19:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d

Injection Date: 05-Jan-2023 15:13:55

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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)

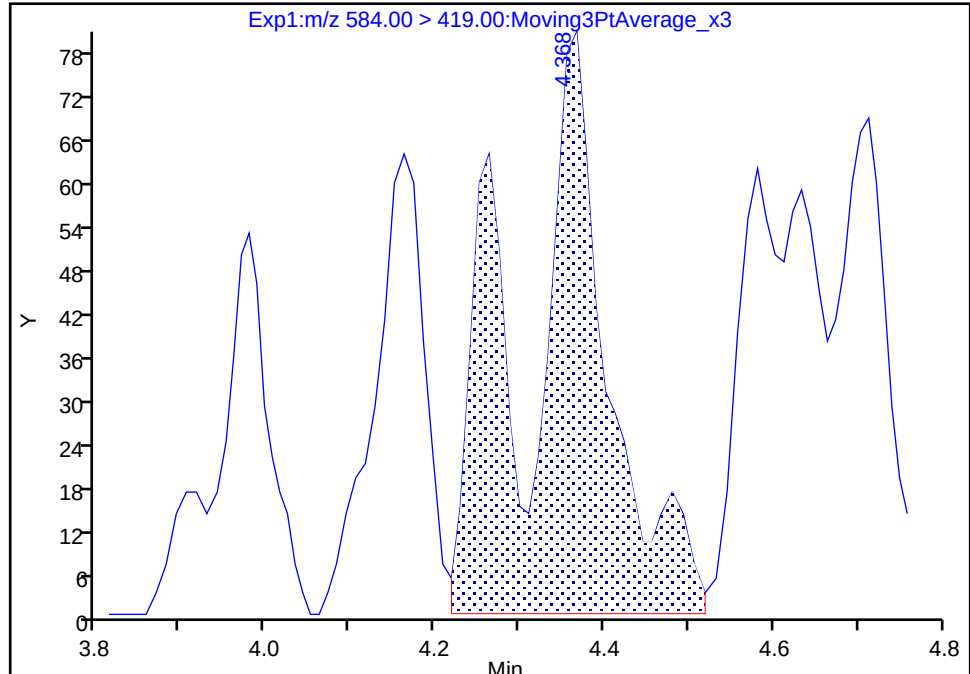
Detector: EXP1

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

Signal: 1

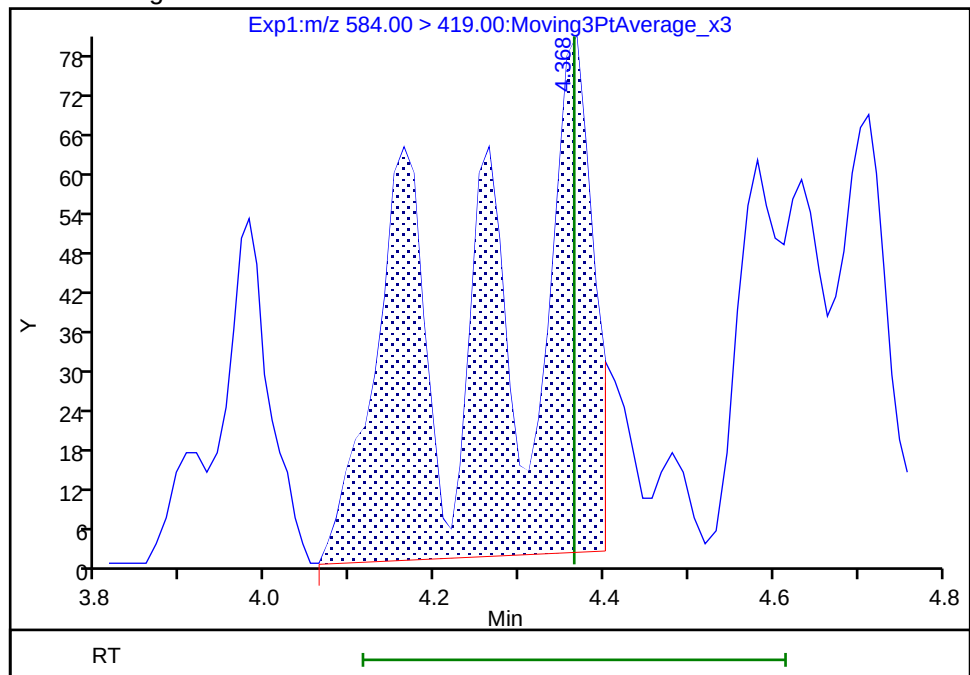
RT: 4.37
Area: 576
Amount: 0.001296
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 711
Amount: 0.001600
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:19:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

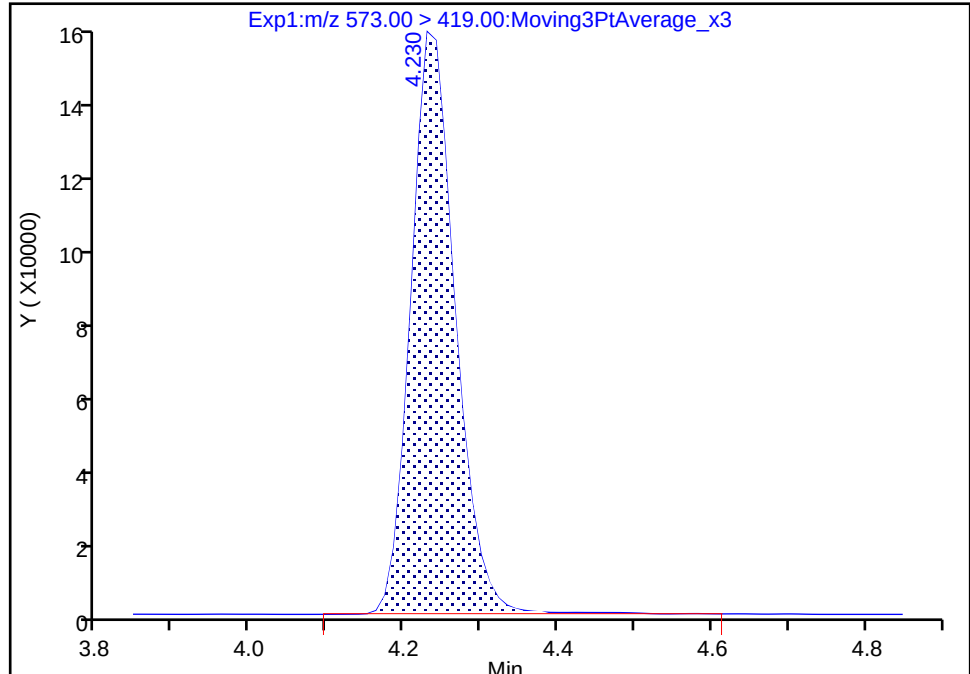
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

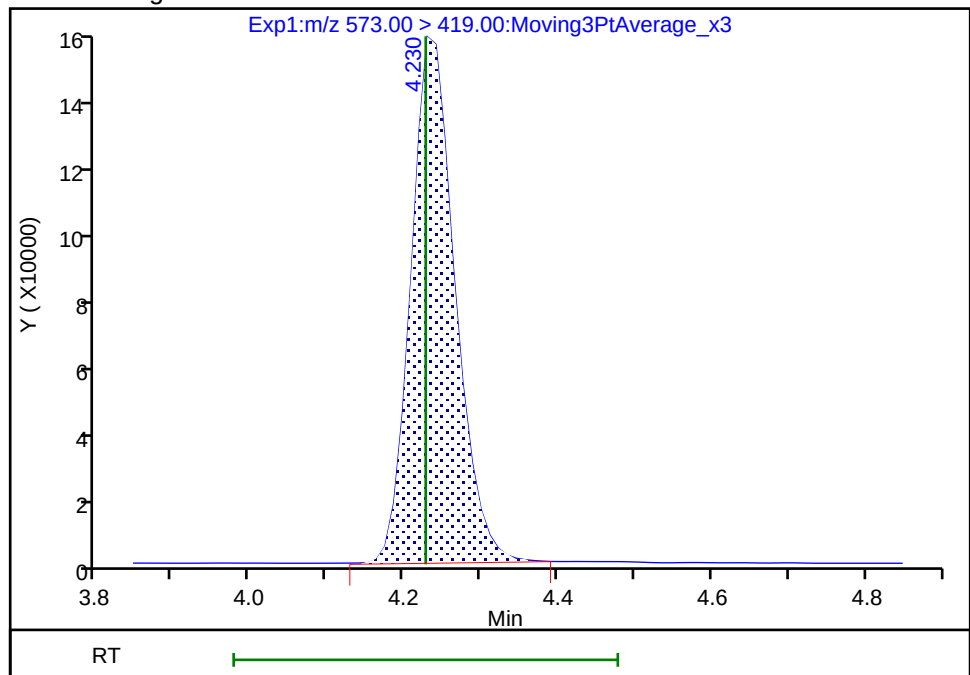
RT: 4.23
Area: 605014
Amount: 1.258995
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 601426
Amount: 1.252275
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:14:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

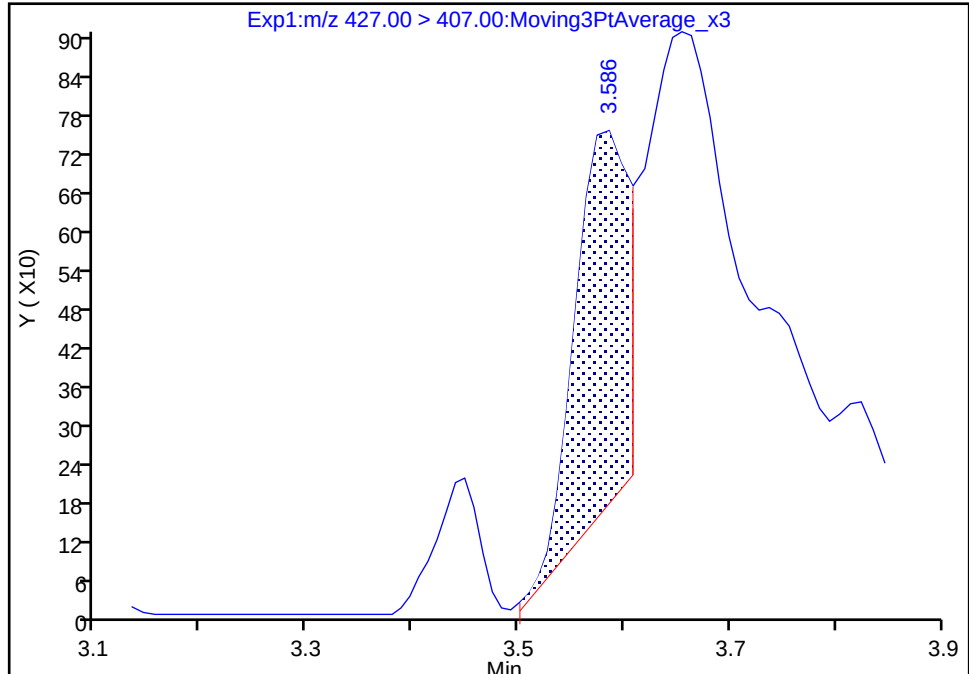
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

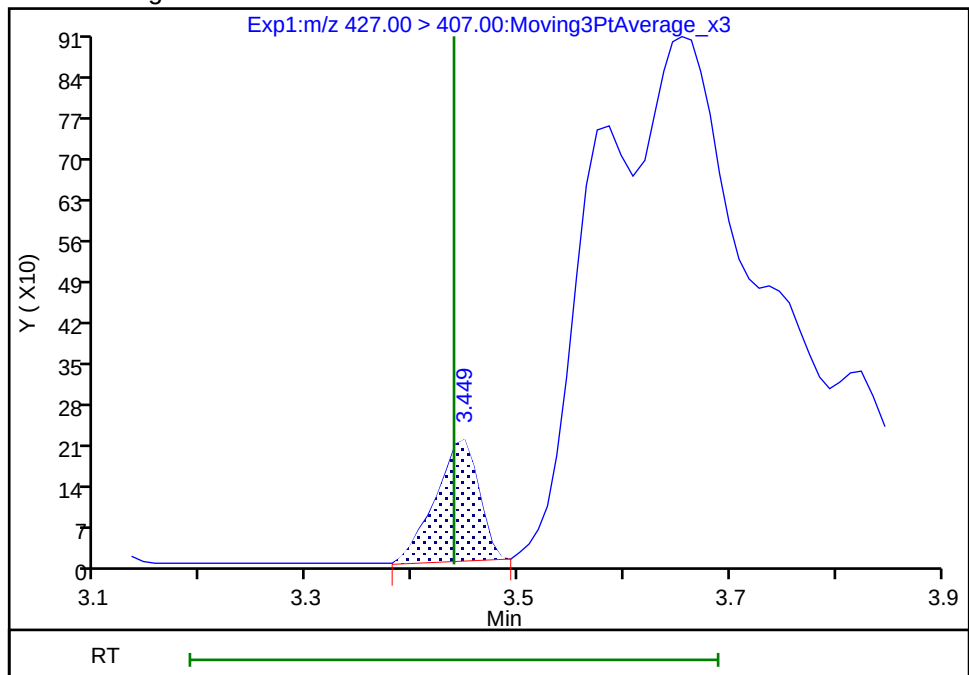
RT: 3.59
Area: 2009
Amount: -0.008619
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 589
Amount: -0.010919
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:17:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

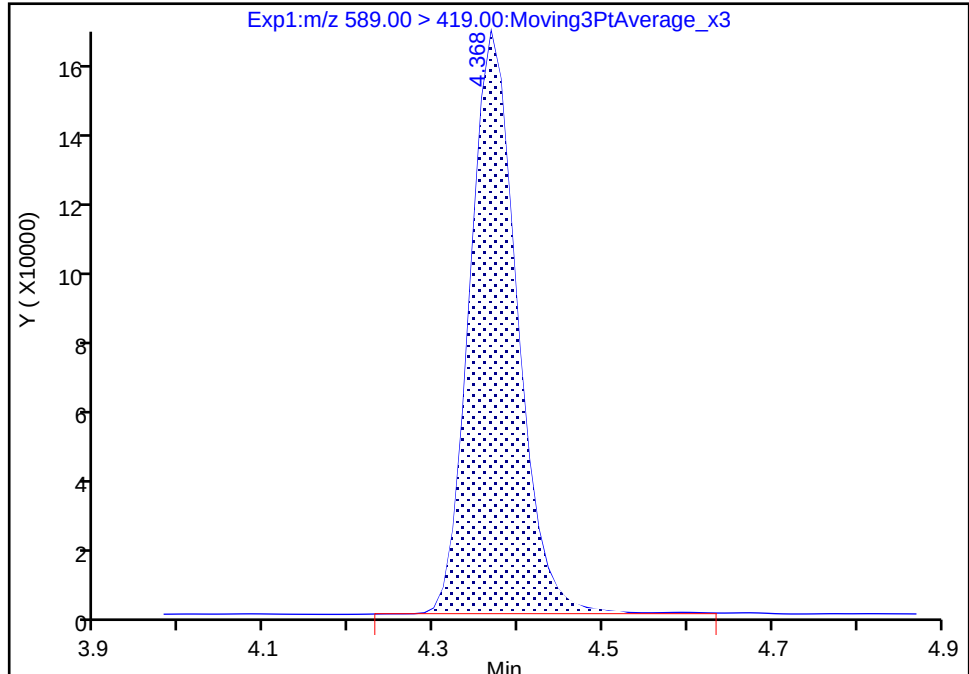
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

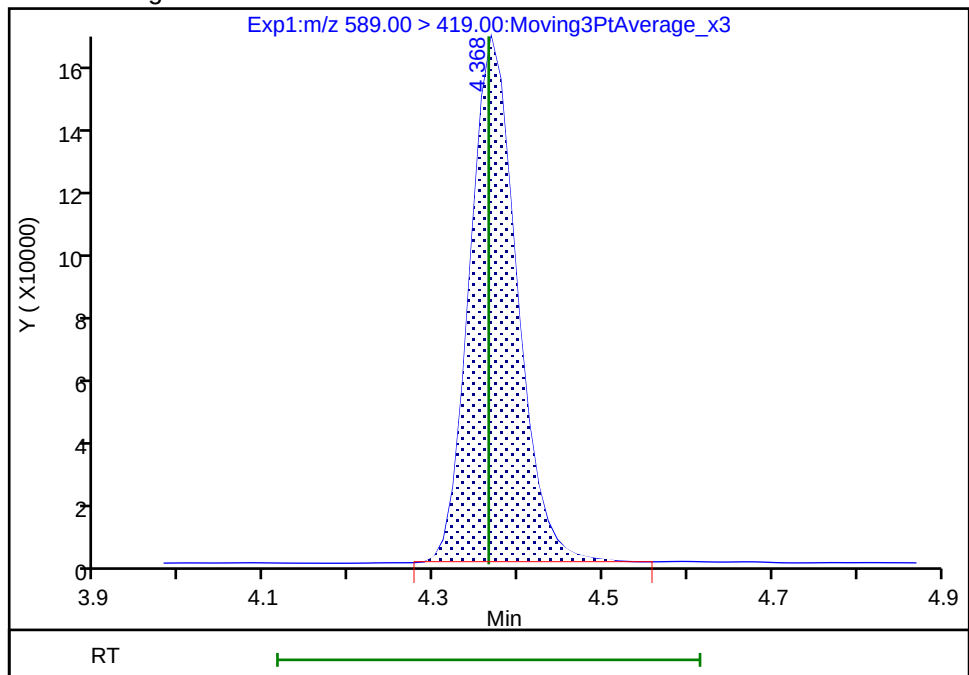
RT: 4.37
Area: 622606
Amount: 1.315796
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 620515
Amount: 1.312158
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:14:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

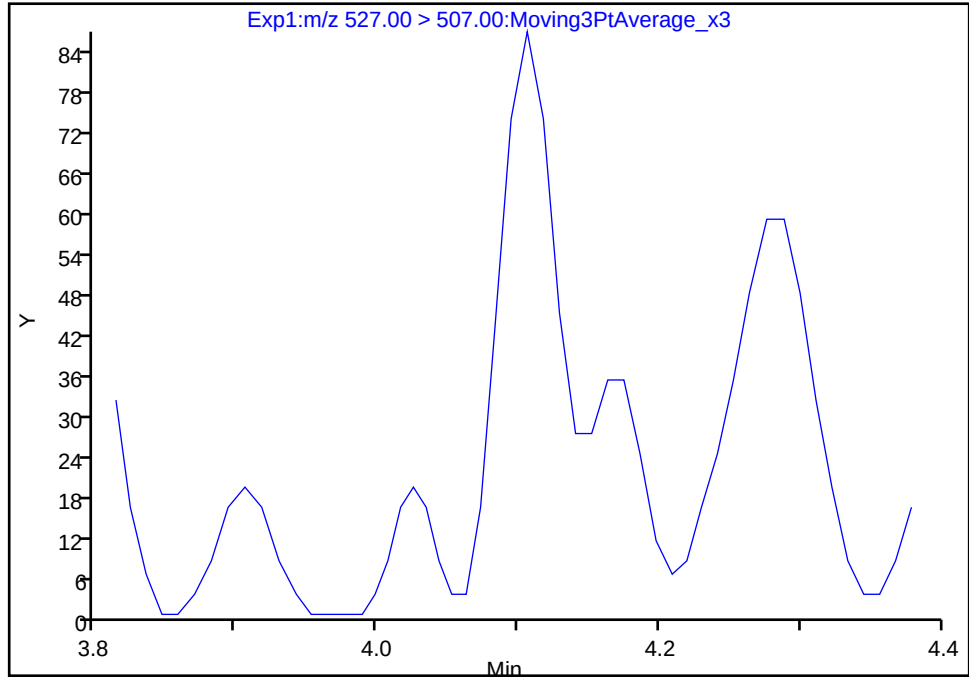
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

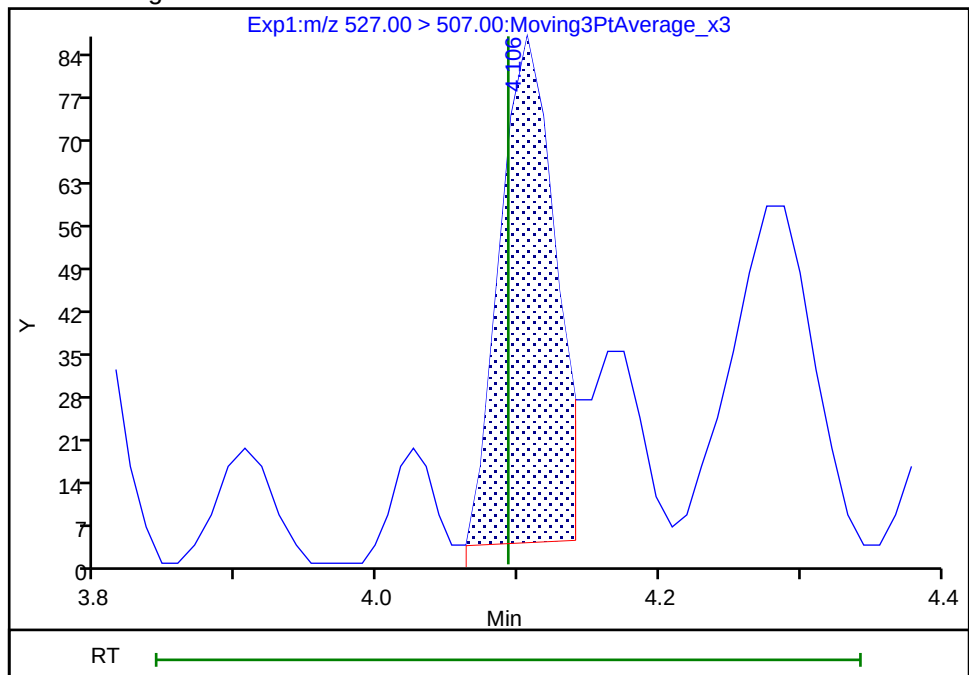
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.11
Area: 223
Amount: 0.000425
Amount Units: ng/ml

Reviewer: nampitakw, 06-Jan-2023 11:19:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

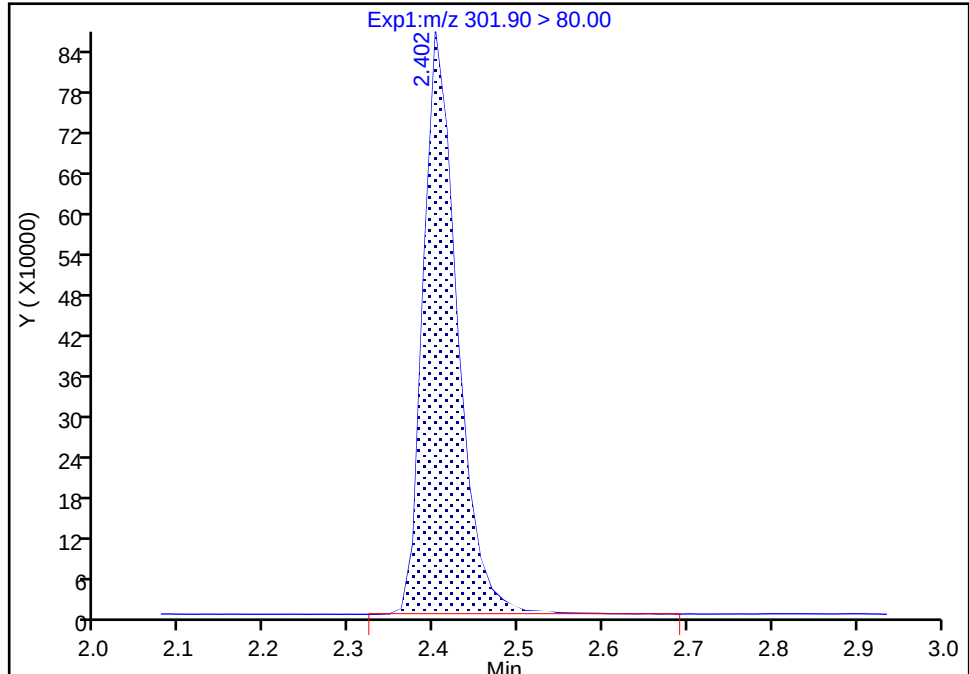
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

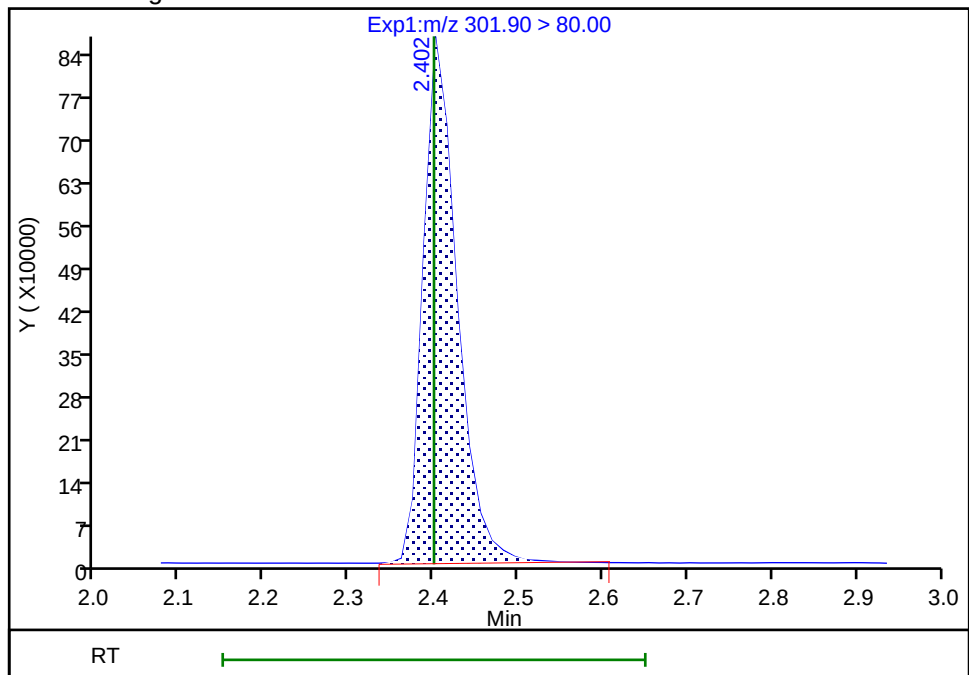
RT: 2.40
Area: 2424762
Amount: 1.134525
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2415206
Amount: 1.130728
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:10:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d

Injection Date: 05-Jan-2023 15:13:55

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

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)

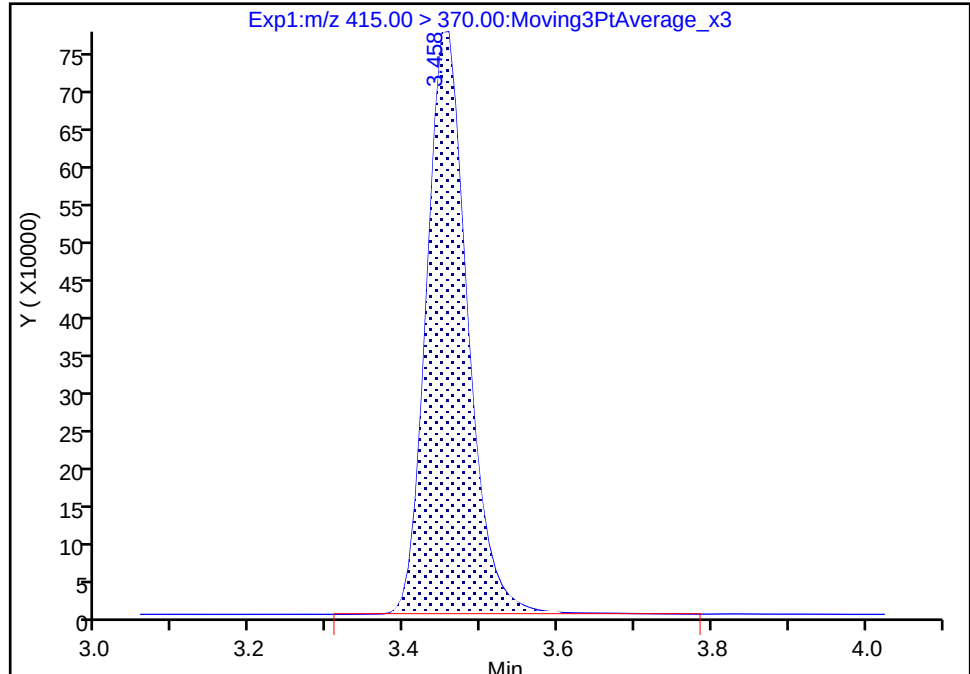
Detector: EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

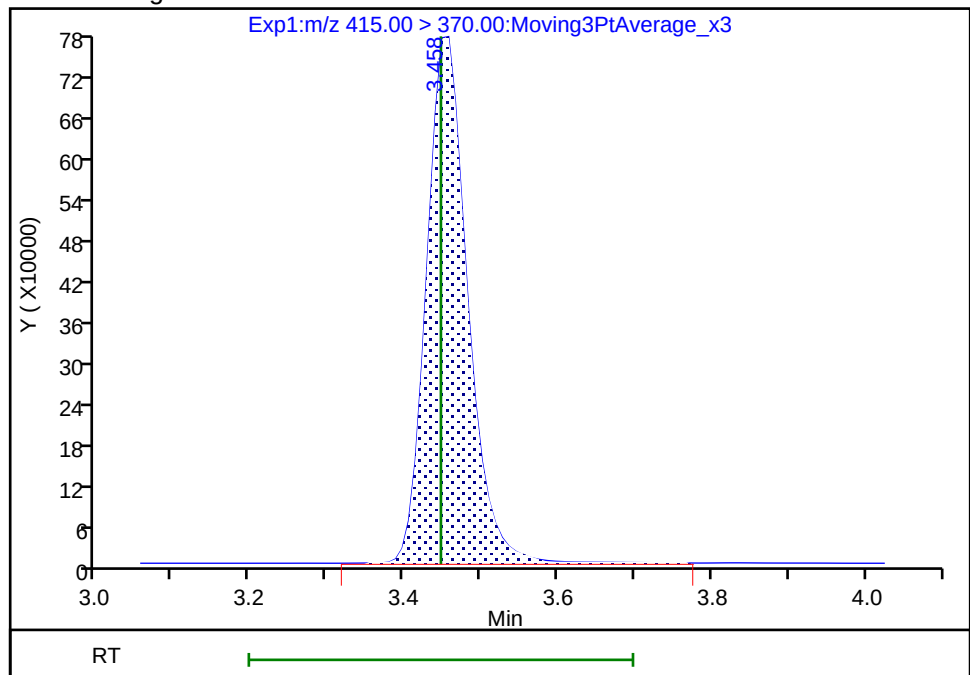
RT: 3.46
Area: 2878408
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 2876693
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:15:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

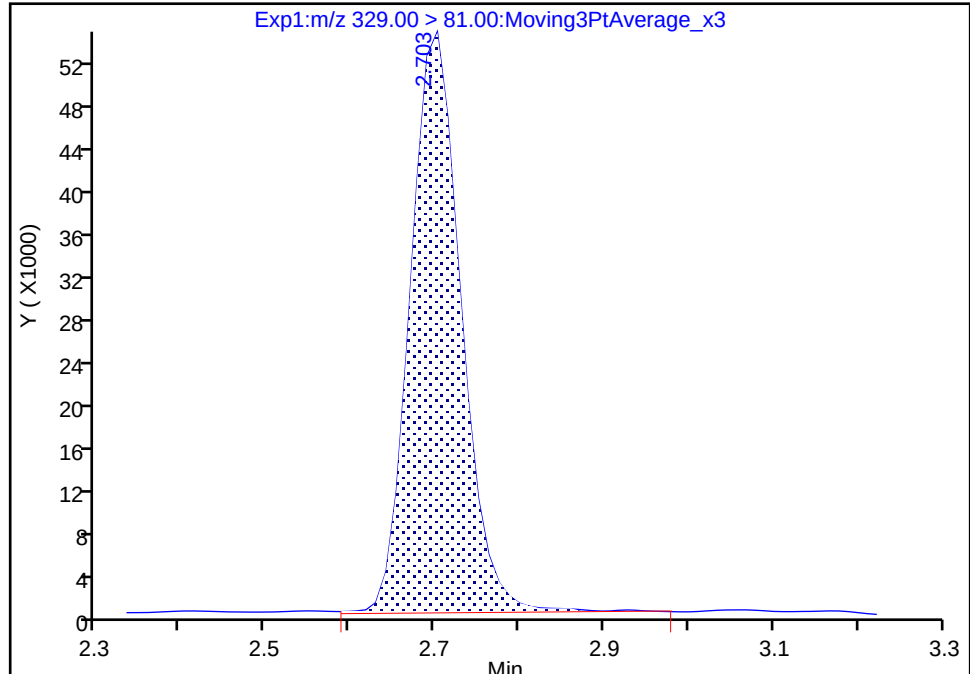
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A04.d
Injection Date: 05-Jan-2023 15:13:55 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

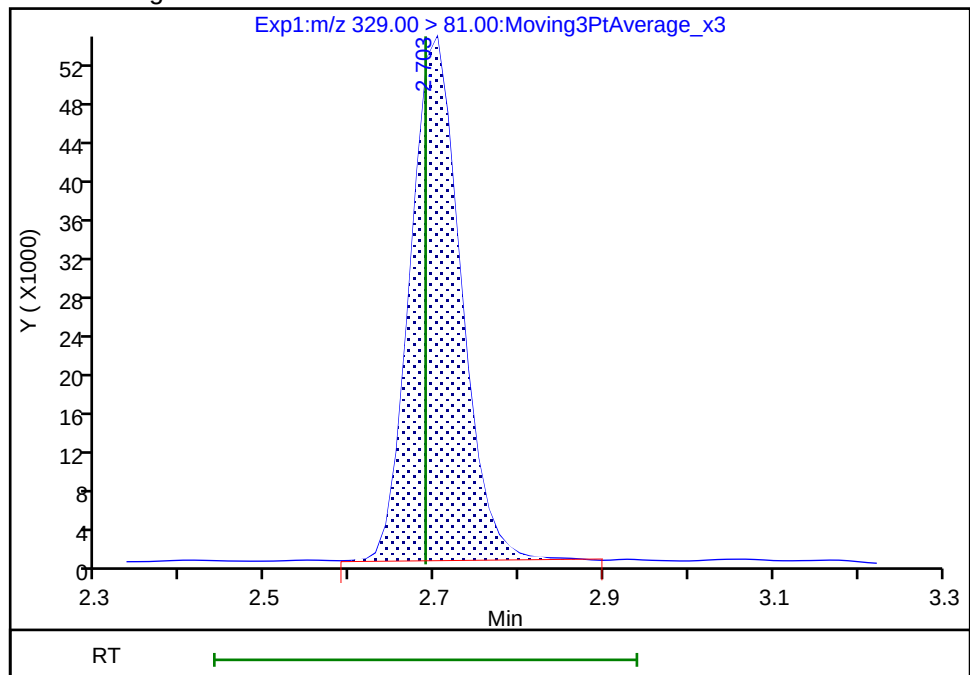
RT: 2.70
Area: 225007
Amount: 1.191447
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 223032
Amount: 1.181693
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 11:10:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-185958/11
 Matrix: Water Lab File ID: PA221118ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 11/18/2022 15:18
 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.: 185958 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
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
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.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-185958/11
 Matrix: Water Lab File ID: PA221118ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 11/18/2022 15:18
 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.: 185958 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	108		50-150
STL00990	13C4 PFOA	105		50-150
STL00995	13C5 PFNA	107		50-150
STL00992	13C4 PFBA	106		50-150
STL00993	13C2 PFHxA	109		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	107		50-150
STL00994	18O2 PFHxS	108		50-150
STL00998	13C2 PFDoA	107		50-150
STL00991	13C4 PFOS	111		50-150
STL01056	13C8 FOSA	107		50-150
STL01893	13C5 PFPeA	109		50-150
STL02116	13C2 PFTeDA	107		50-150
STL02118	d3-NMeFOSAA	108		50-150
STL02117	d5-NEtFOSAA	107		50-150
STL02279	M2-6:2 FTS	114		50-150
STL02337	13C3 PFBS	106		50-150
STL02280	M2-8:2 FTS	108		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 18-Nov-2022 15:18:56 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0053396-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 21-Nov-2022 08:33:11 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: Z1IP

Date: 21-Nov-2022 08:27:16

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										M
217.00 > 172.00	2.076	2.076	0.0	0.602	2690789	1.32		106	7033	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.008	10011	0.004510			1.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	2109113	1.36		109	4718	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2084598	1.24		106	323076	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4101	0.001999	Target=2.09		7.4	M
298.90 > 99.00	2.400	2.400	0.0	1.000	1875		2.19(1.04-3.13)		1.5	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	1019	0.002019			19.6	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	191220	1.28		110	184	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2220169	1.37		109	4126	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	736	0.002396			6.3	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	363682	1.27		101	2231	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1571887	1.28		108	5837	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	7928	0.005284	Target=3.66		7.2	M
399.00 > 99.00	3.088	3.088	0.0	1.000	2543		3.12(1.83-5.49)		2.9	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	2249421	1.35		108	5872	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.088	3.099	-0.011	1.000	5399	0.002756	Target=3.97		1.3	
363.00 > 169.00	3.099	3.099	0.0	1.004	1444		3.74(1.98-5.95)		4.1	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	7131	0.001403	Target=3.16		10.3	
377.00 > 85.00	3.132	3.132	0.0	0.832	2232		3.19(1.58-4.73)		4.5	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	278131	1.35		114	814	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.447	3.439	0.008	1.003	978	-0.009896			6.1	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.911	1731	0.001343	Target=5.14		7.5	M
449.00 > 99.00	3.430	3.439	-0.009	0.911	631		2.74(2.57-7.72)		4.2	M
D 14 13C4 PFOA										
417.00 > 372.00	3.447	3.448	-0.001	1.000	2473585	1.32		105	5945	
* 62 13C2 PFOA										
415.00 > 370.00	3.447	3.448	-0.001		2270634	1.25			5212	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.465	3.448	0.017	1.005	5314	0.002512	Target=2.79		0.5	M
413.00 > 169.00	3.447	3.448	-0.001	1.000	2152		2.47(1.40-4.19)		3.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1102903	1.32		111	5728	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.773	3.764	0.009	1.003	6863	0.006115	Target=5.11		1.4	RM
499.00 > 99.00	3.754	3.764	-0.010	0.997	740		9.27(2.55-7.66)		1.0	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	4415	0.002181	Target=8.55		1.1	RM
463.00 > 169.00	3.783	3.783	0.0	1.000	175		25.23(4.28-12.83)		2.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2439752	1.34		107	5749	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	3591	0.001394			17.8	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2433918	1.31		105	4864	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.081	4.081	0.0	1.000	5828	0.002760	Target=10.26		3.1	M
513.00 > 169.00	4.081	4.081	0.0	1.000	996		5.85(5.13-15.38)		2.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	326180	1.29		108	1038	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.093	0.011	1.003	1048	0.002379			14.9	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	5835	0.003421			8.3	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2040818	1.34		107	1565	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	512181	1.35		108	3816	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	10172	0.0172		25.3		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	1686	0.002521	Target=2.51	22.5		
599.00 > 99.00	4.319	4.331	-0.012	1.148	530		3.18(1.25-3.76)	6.3		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2279670	1.34		107	7599	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	6156	0.003349	Target=9.88	3.3		M
563.00 > 169.00	4.353	4.353	0.0	1.000	773		7.96(4.94-14.82)	9.9		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	10302	0.0289		44.5		M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	498484	1.34		107	830	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	7763	0.001955		32.0		
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	6630	0.003355	Target=7.77	0.6		M
613.00 > 169.00	4.602	4.591	0.011	1.002	984		6.74(3.89-11.66)	8.3		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2331608	1.34		107	5785	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	535	0.002021		6.8		M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	595	0.002102	Target=0.50	9.0		M
699.00 > 99.00	4.767	4.776	-0.009	1.267	1589		0.37(0.25-0.76)	19.8		M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.803	4.804	-0.001	1.046	7233	0.003827	Target=5.21	0.6		
663.00 > 169.00	4.813	4.804	0.009	1.048	1768		4.09(2.60-7.81)	11.4		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.002	5.012	-0.010	0.998	1409	0.006412	Target=0.89	12.0		M
713.00 > 219.00	5.002	5.012	-0.010	0.998	1526		0.92(0.44-1.33)	15.6		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	2006376	1.34		107	4997	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.378	5.367	0.011	1.002	35047	0.002340	Target=5.65	3.3		
813.00 > 169.00	5.367	5.367	0.0	1.000	5819		6.02(2.82-8.47)	38.2		
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.367	5.367	0.0	1.557	2453441	1.32		106	2133	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.722	0.009	1.068	14605	0.009035	Target=6.24	1.8		M
913.00 > 169.00	5.722	5.722	0.0	1.066	2239		6.52(3.12-9.36)	27.5		M

[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: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d

Injection Date: 18-Nov-2022 15:18:56

Instrument ID: LC812

Lims ID: ICB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

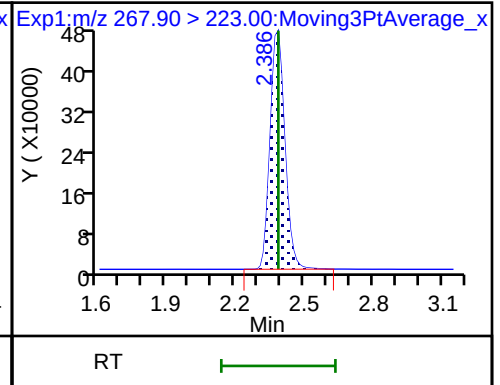
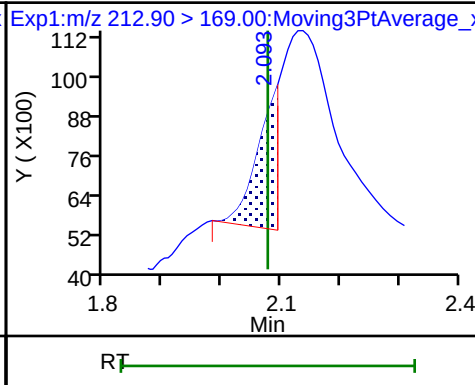
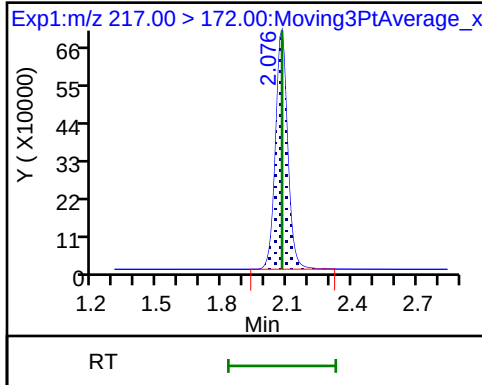
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

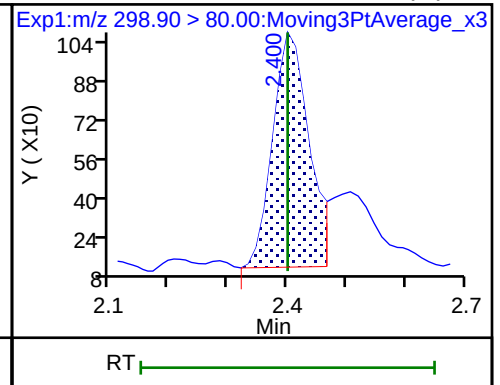
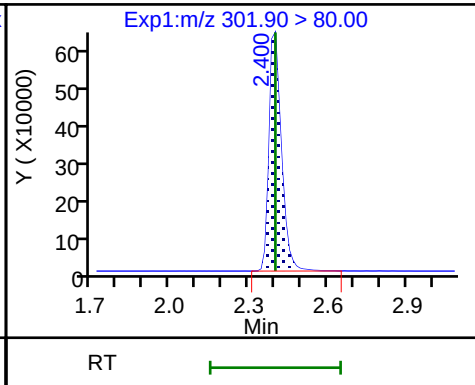
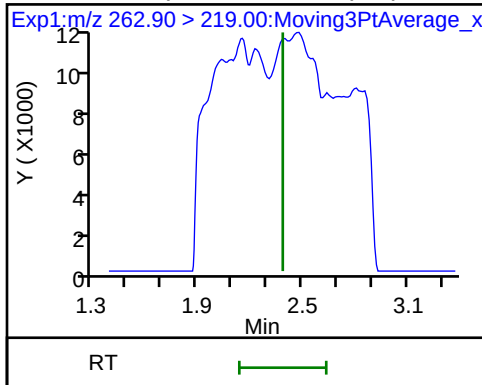
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS

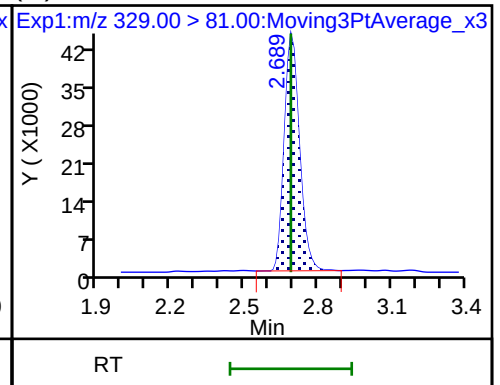
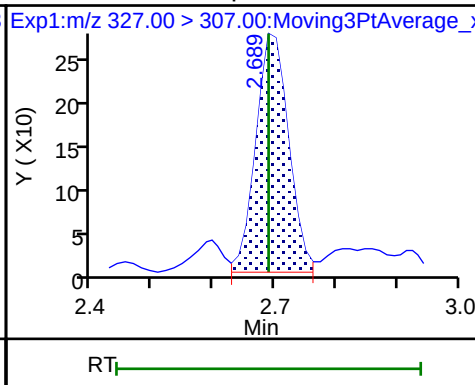
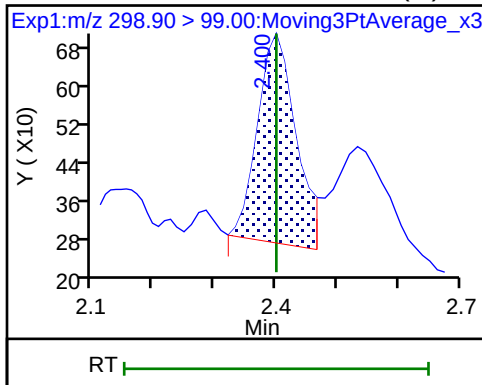
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonate (M)

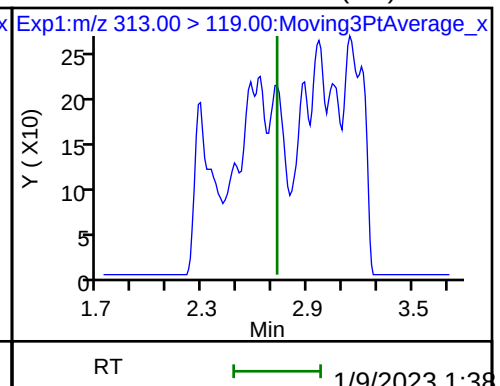
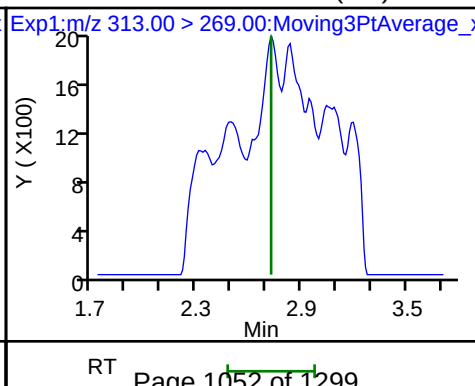
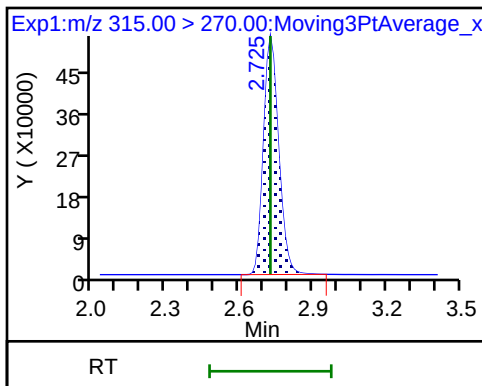
D 50 M2-4:2 FTS



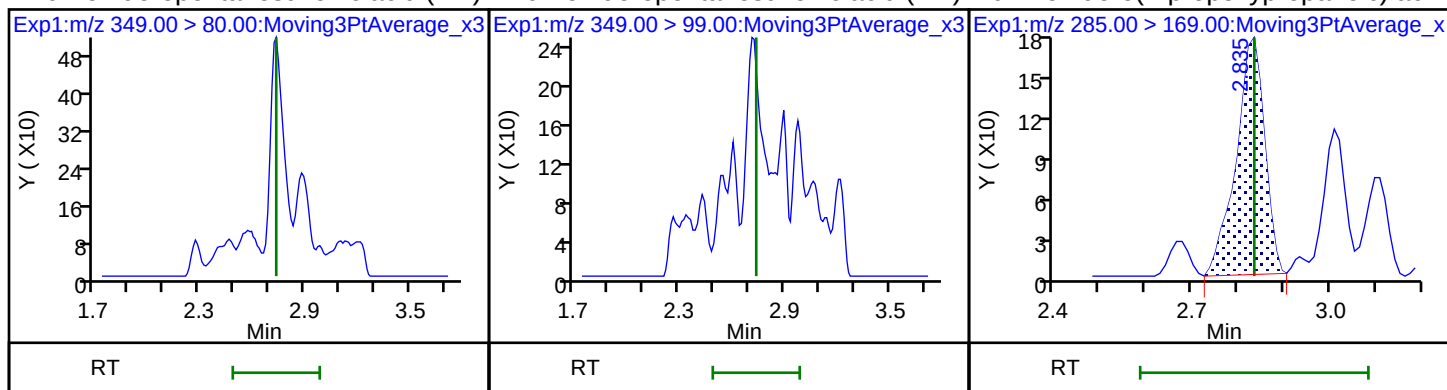
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



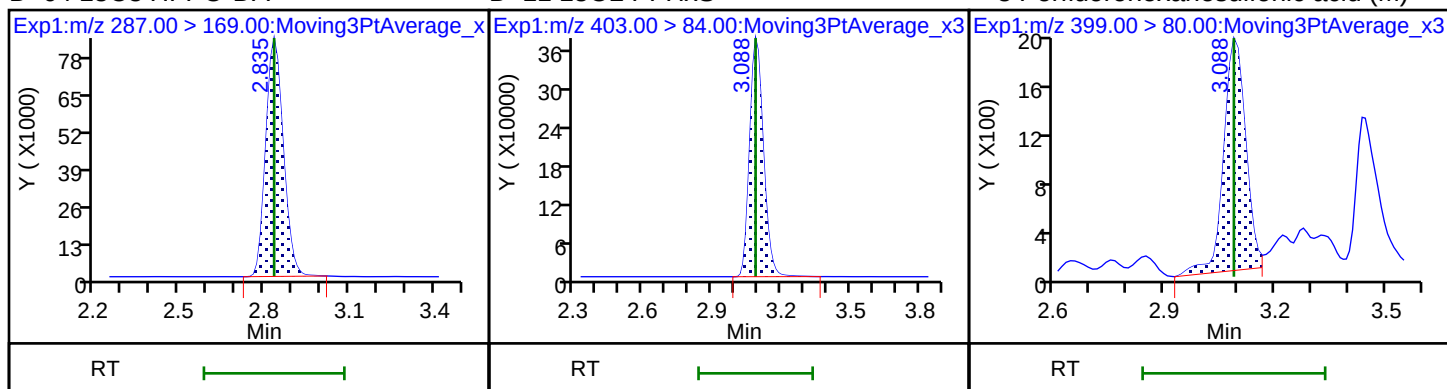
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

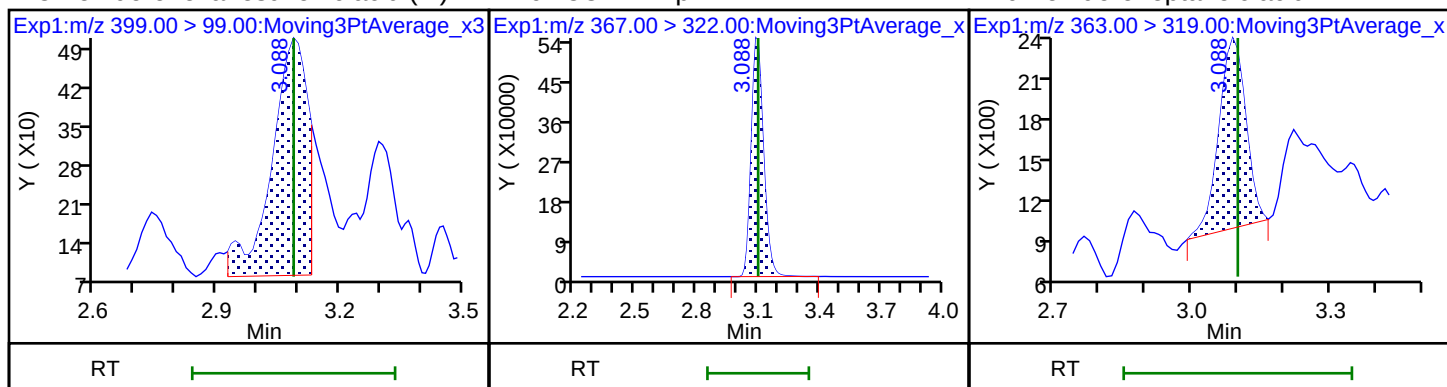
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

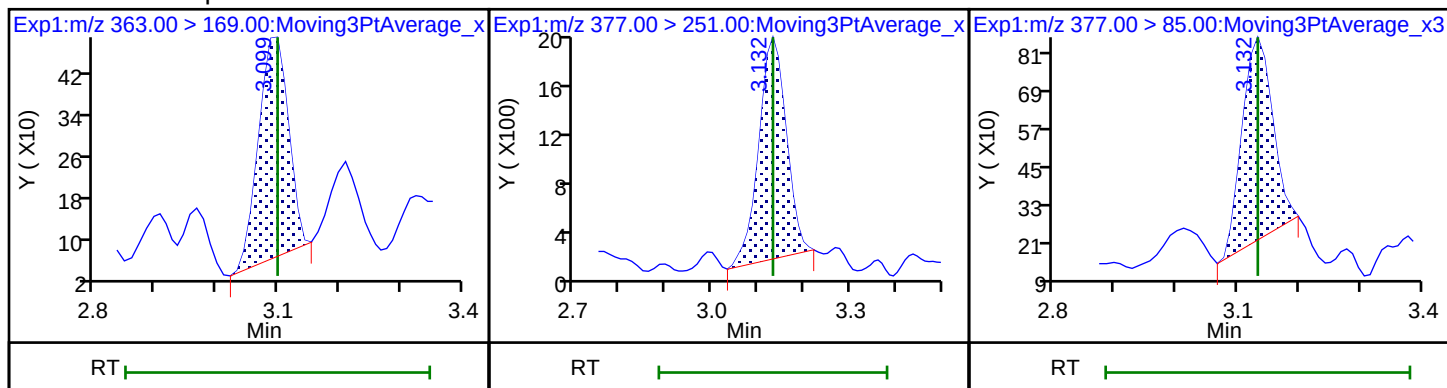
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid

77 DONA

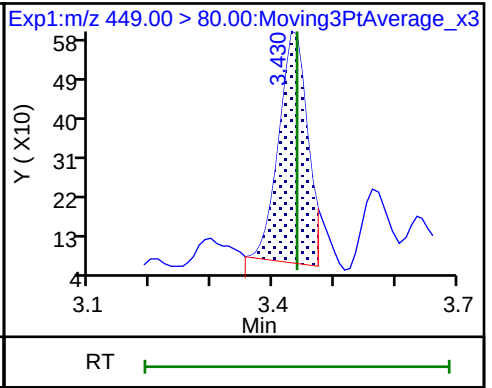
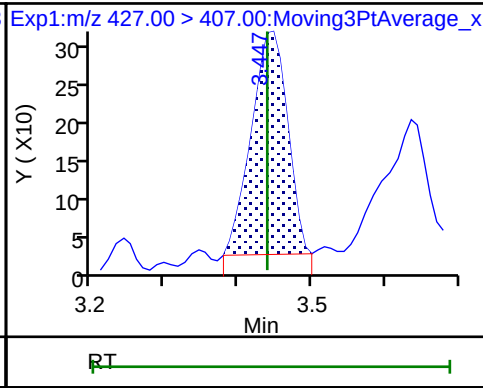
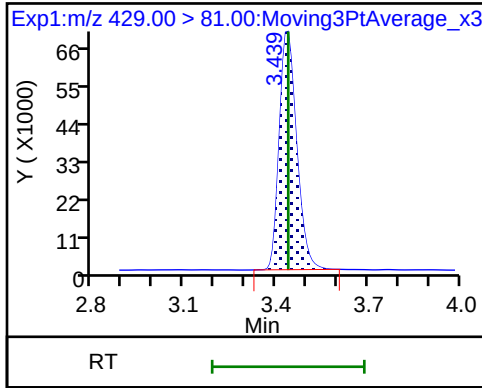
77 DONA



D 12 M2-6:2 FTS

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

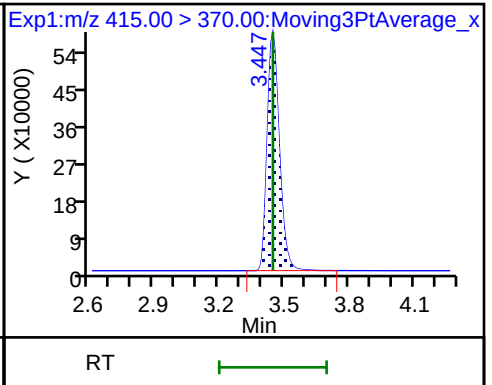
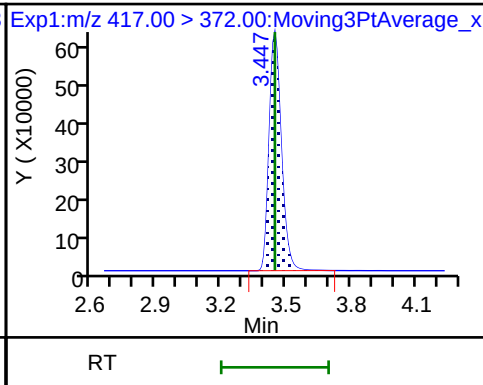
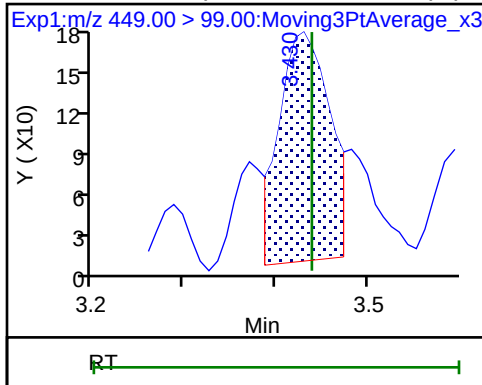
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

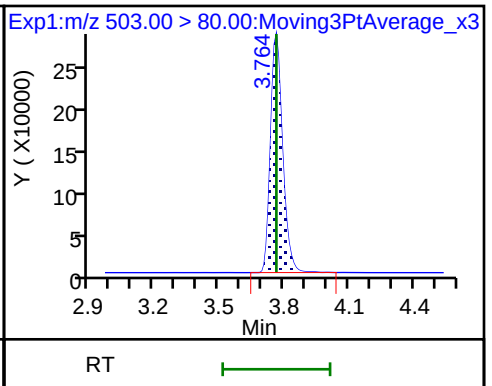
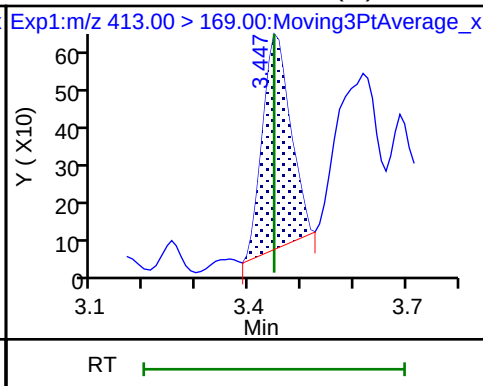
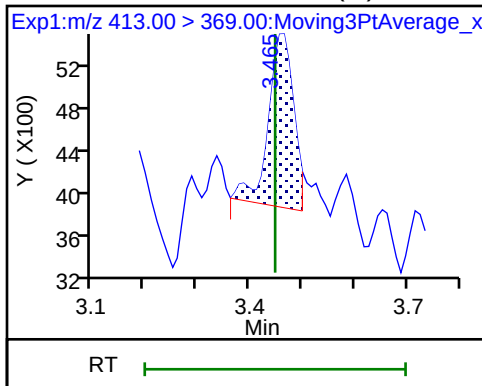
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

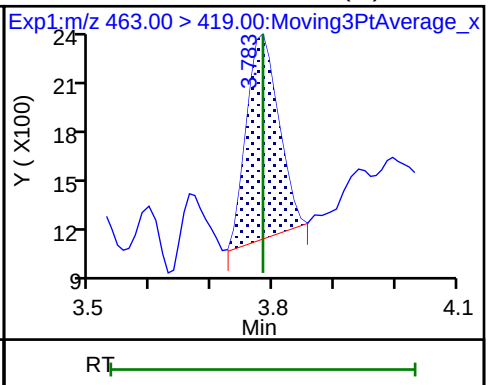
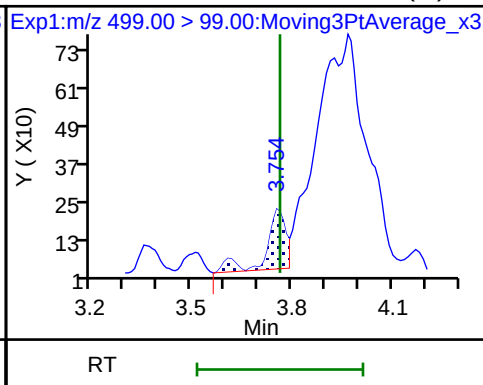
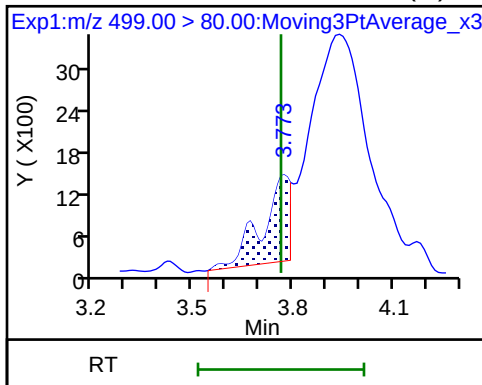
D 18 13C4 PFOS

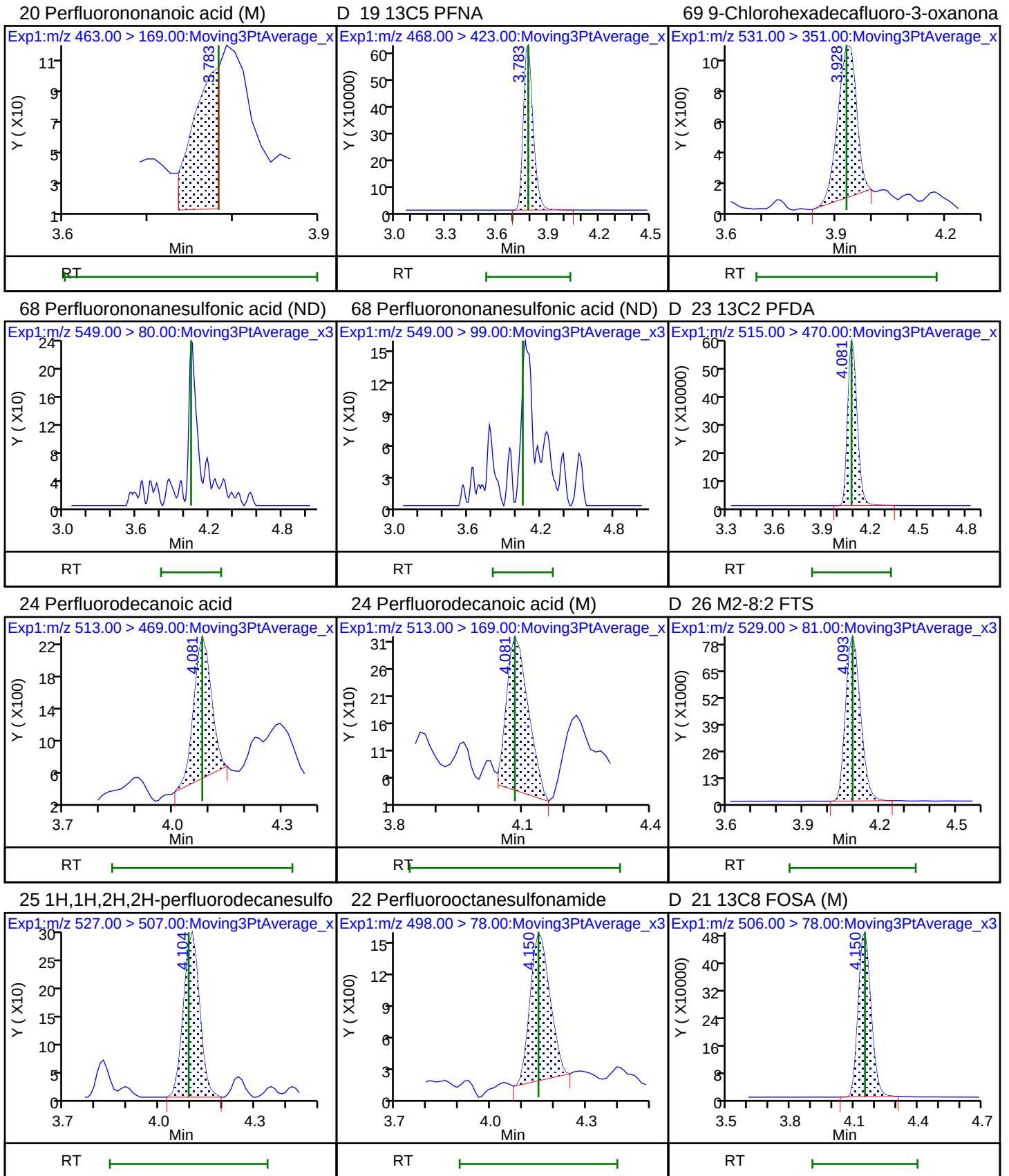


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

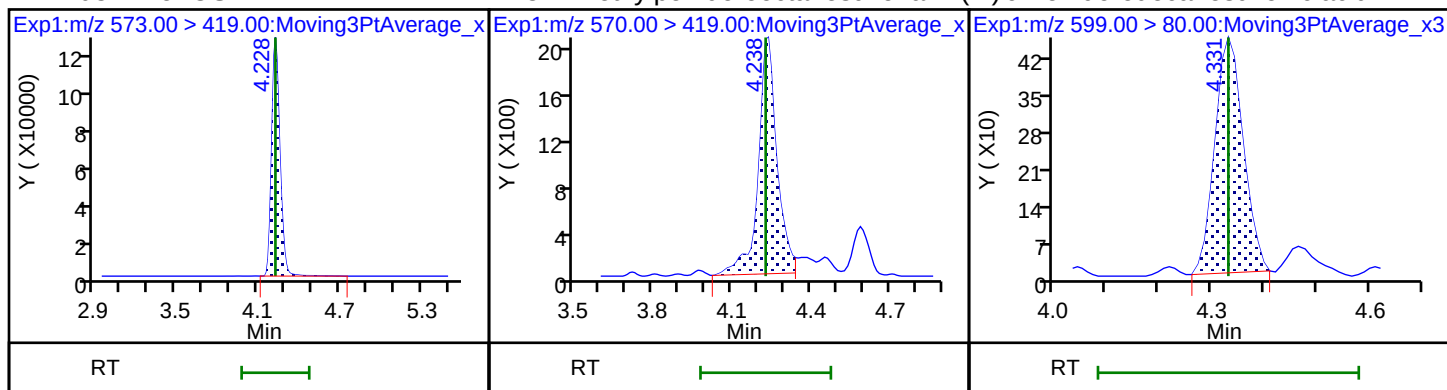
20 Perfluorononanoic acid (M)





D 27 d3-NMeFOSAA

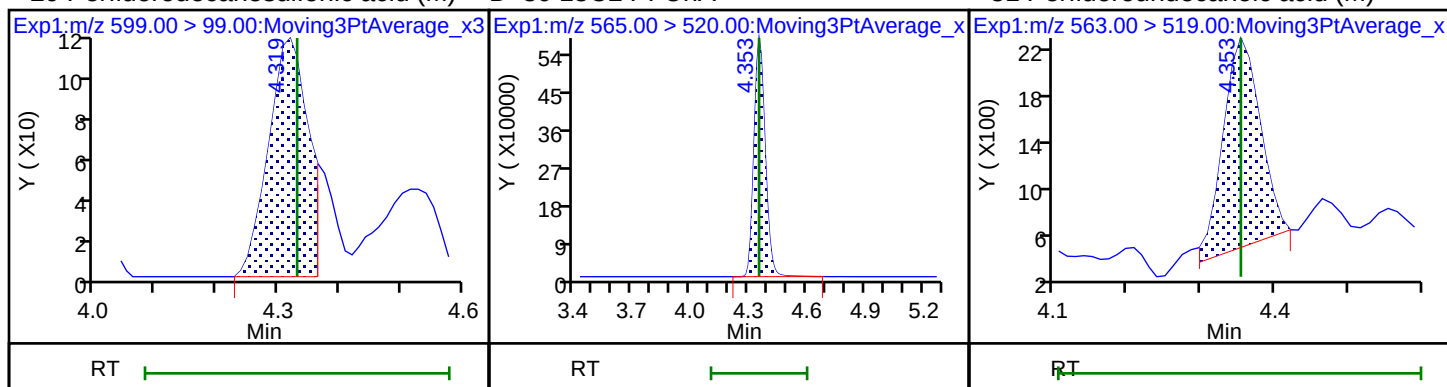
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

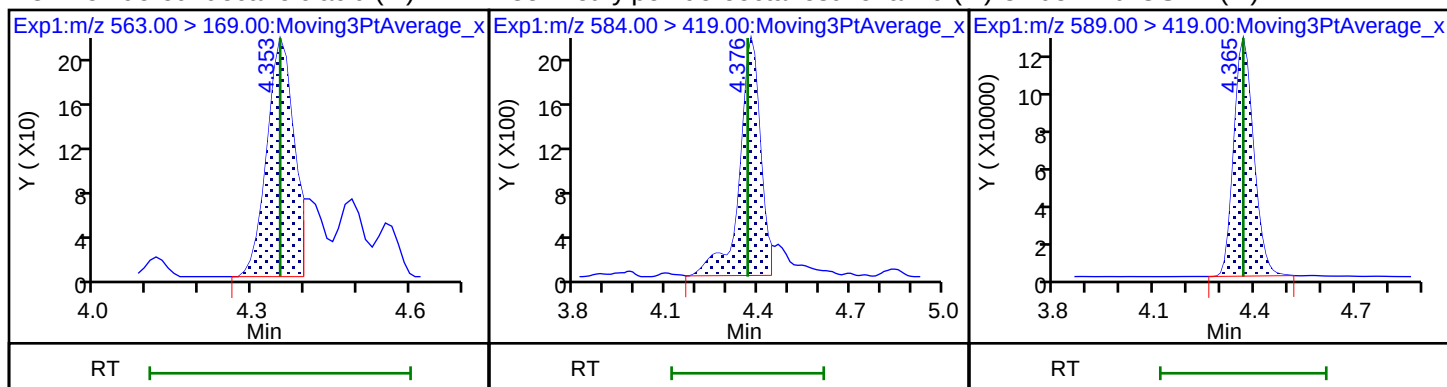
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

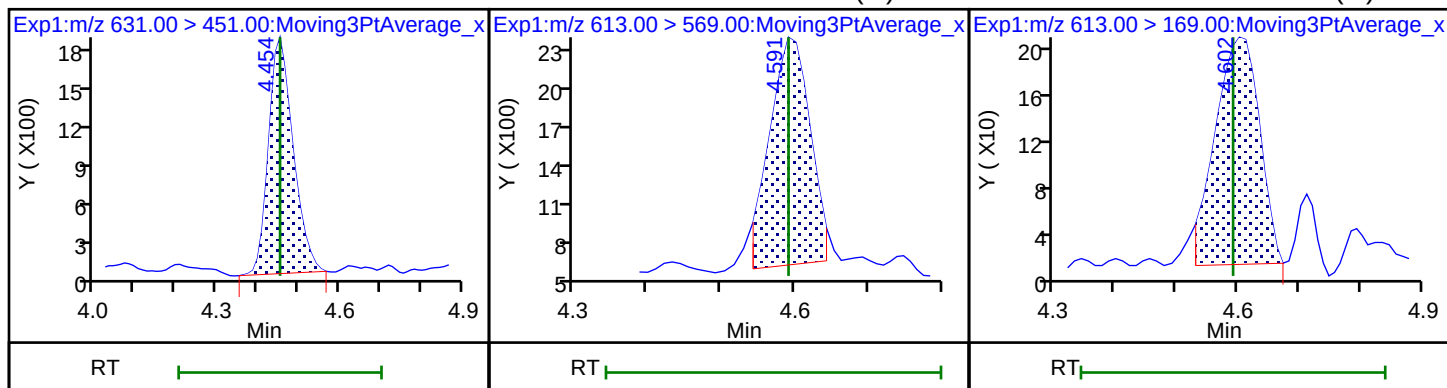
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

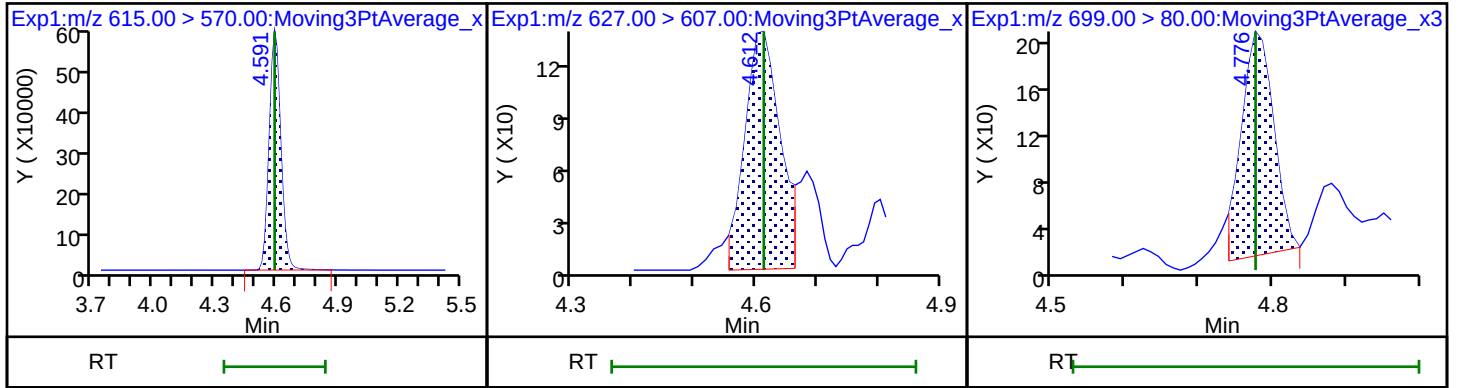
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



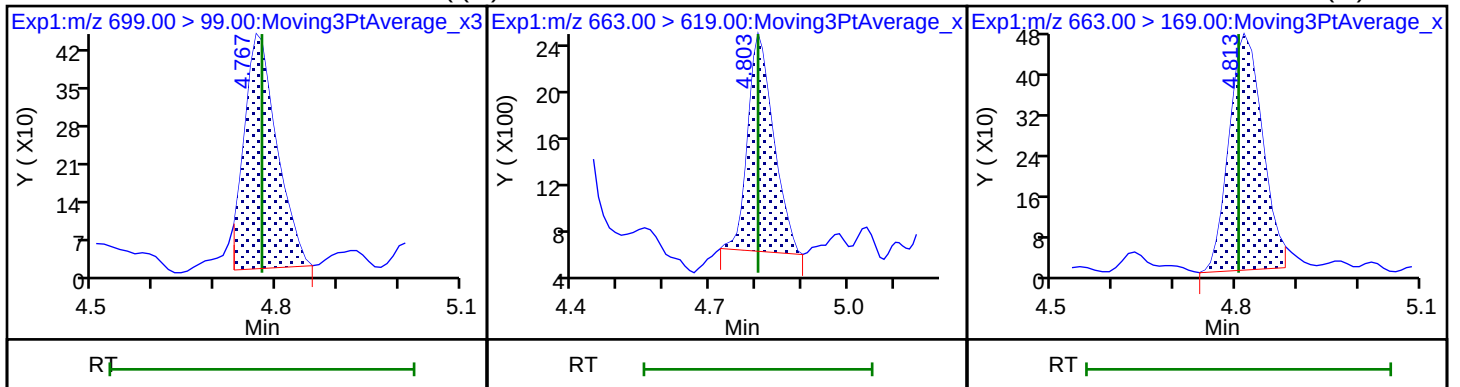
D 36 13C2 PFDaA

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



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid

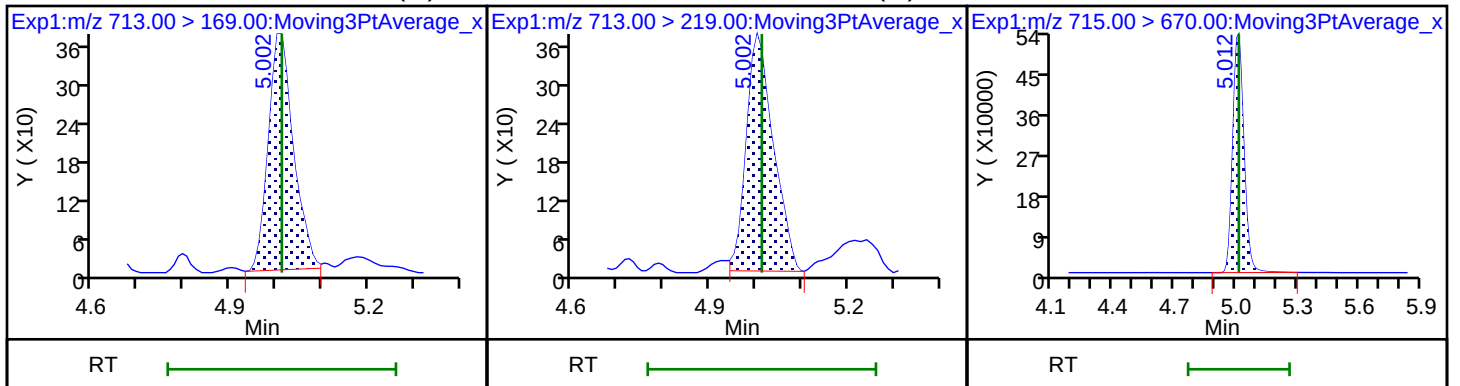
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

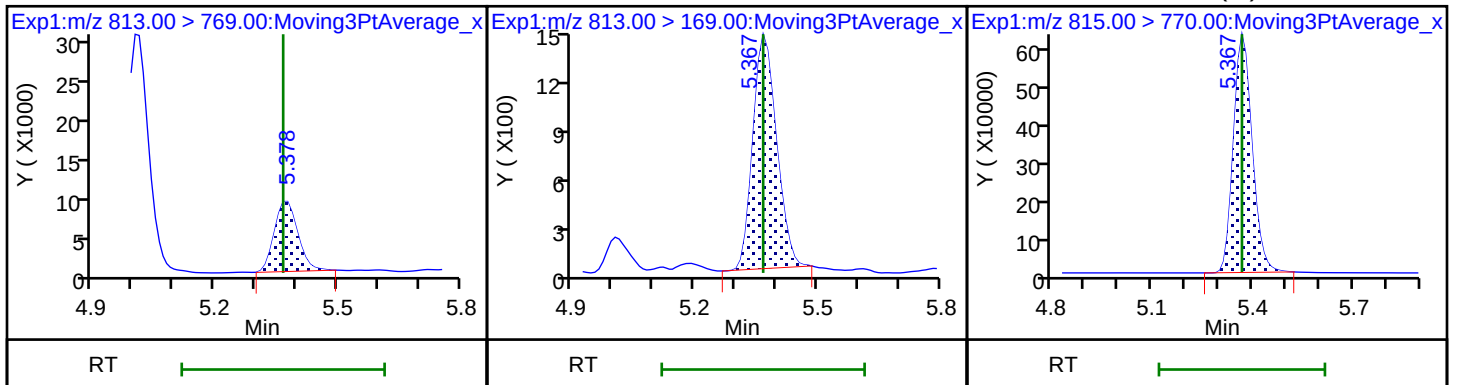
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

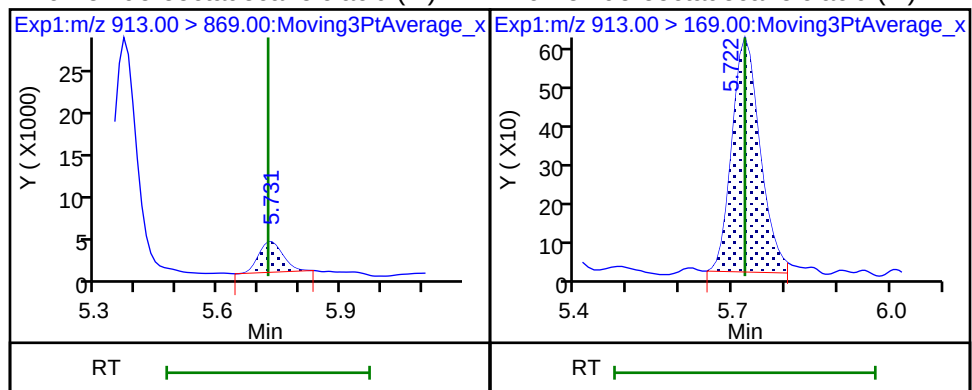
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

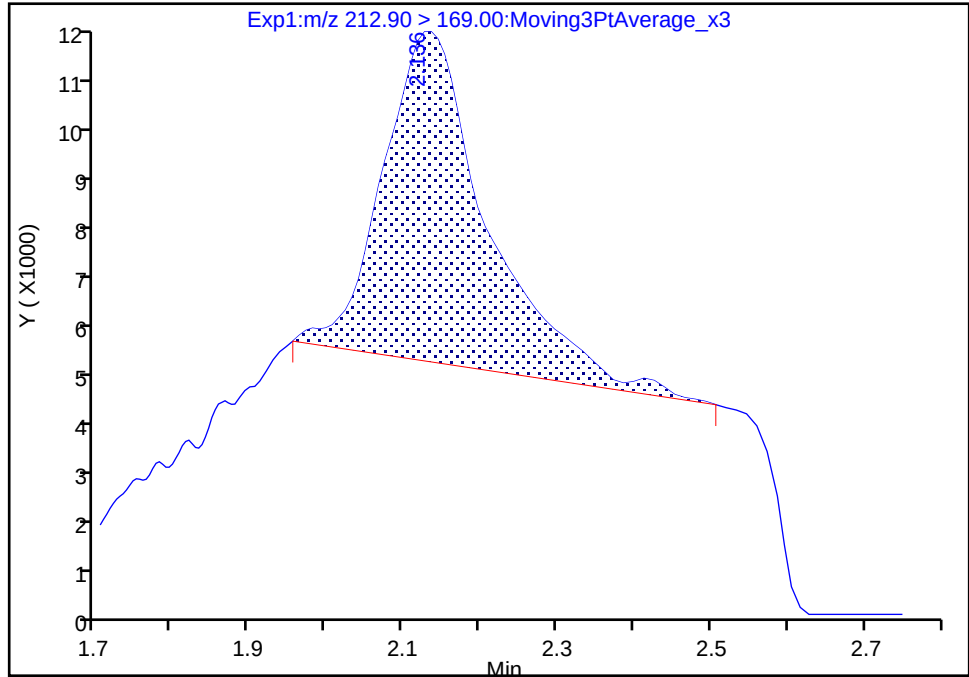
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Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

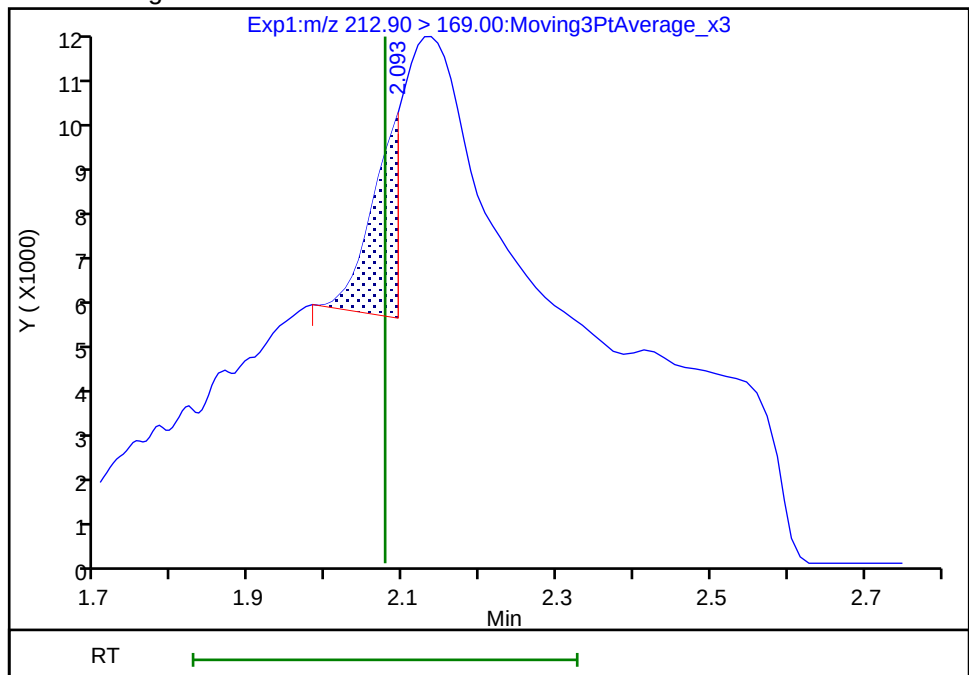
RT: 2.14
Area: 60893
Amount: 0.027432
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 10011
Amount: 0.004510
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

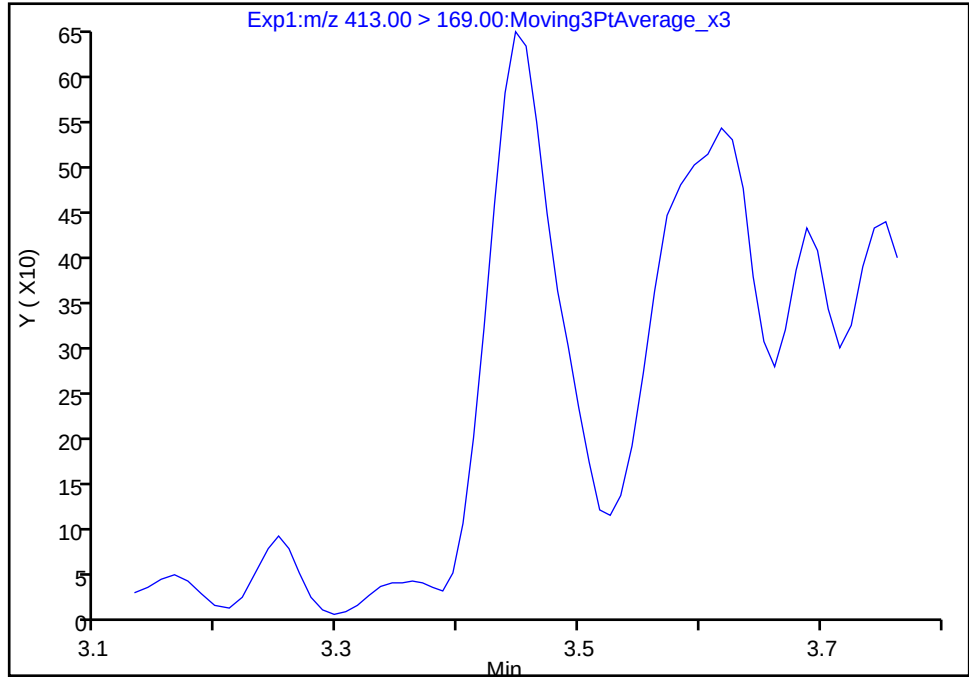
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

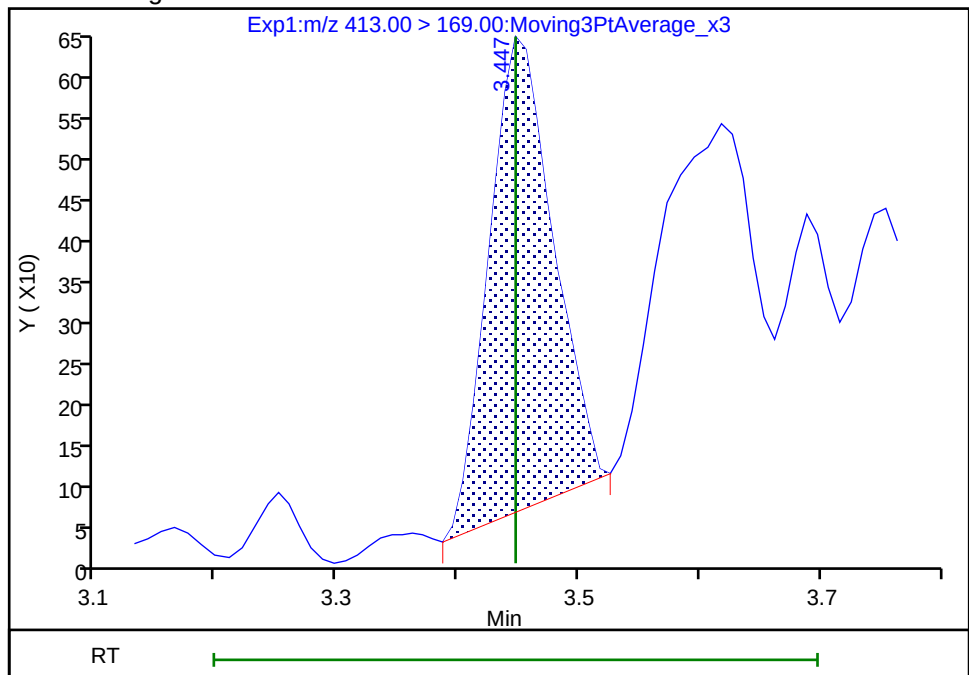
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 2152
Amount: 0.002512
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:22:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

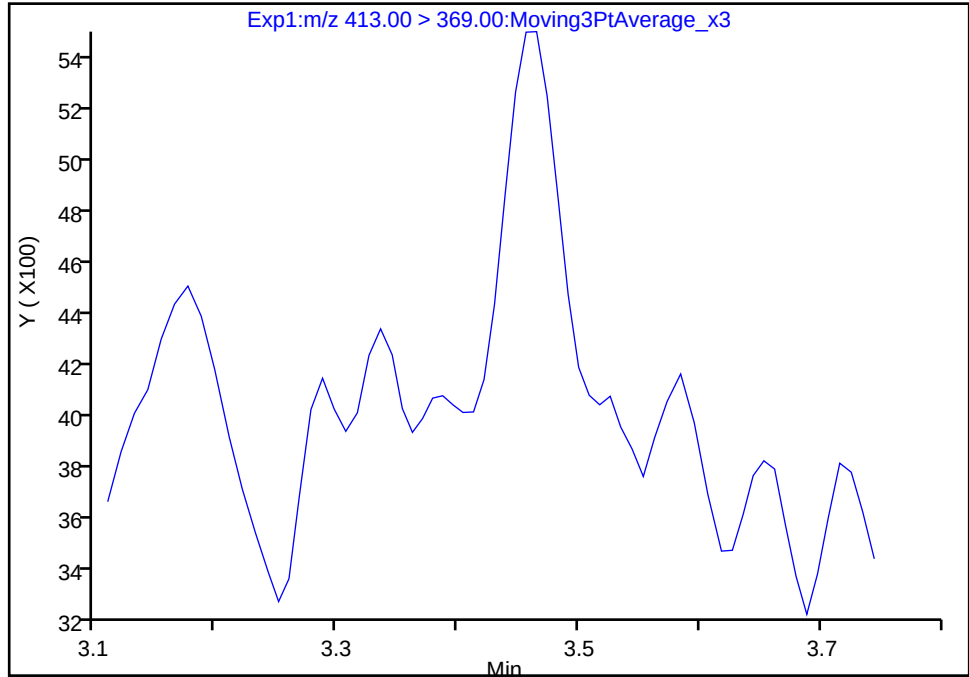
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

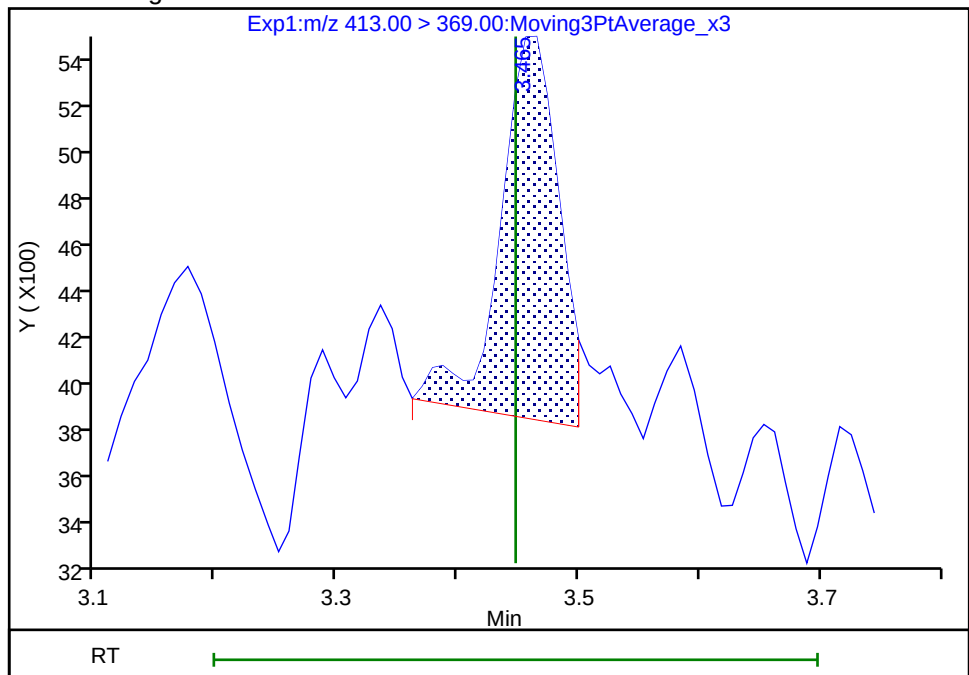
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 5314
Amount: 0.002512
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:22:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

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PM

Eurofins Burlington

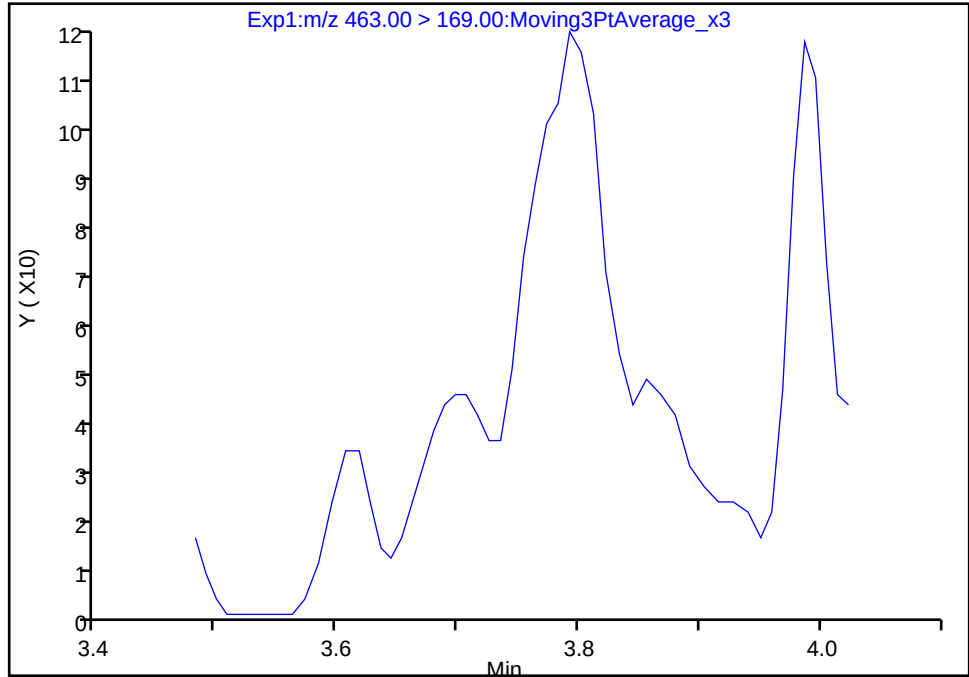
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

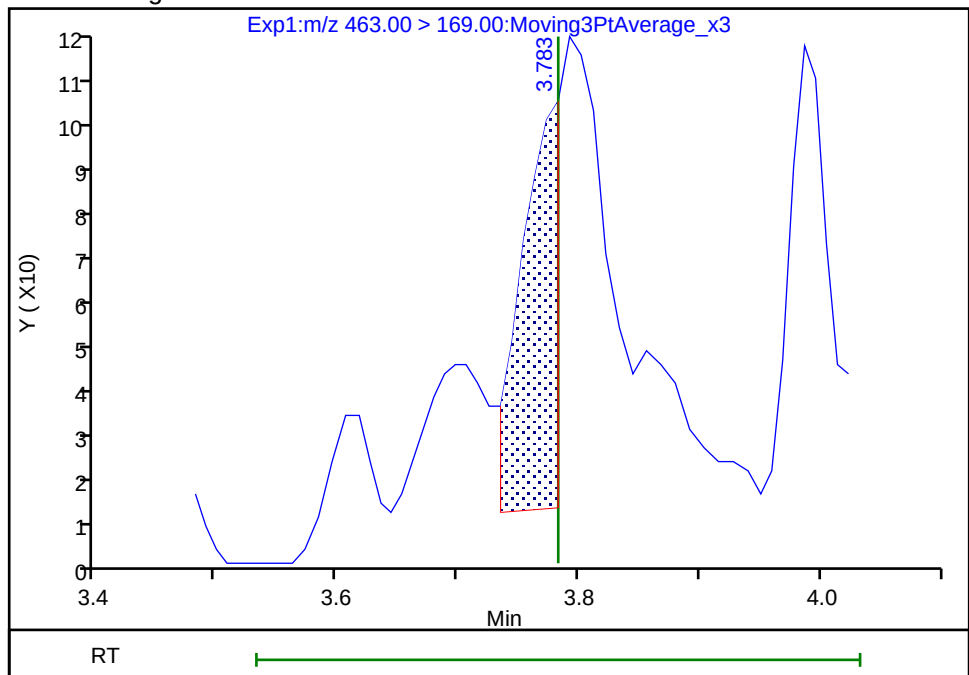
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 175
Amount: 0.002181
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:23:26
Audit Action: Manually Integrated

Audit Reason: Missed Peak
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PM

Eurofins Burlington

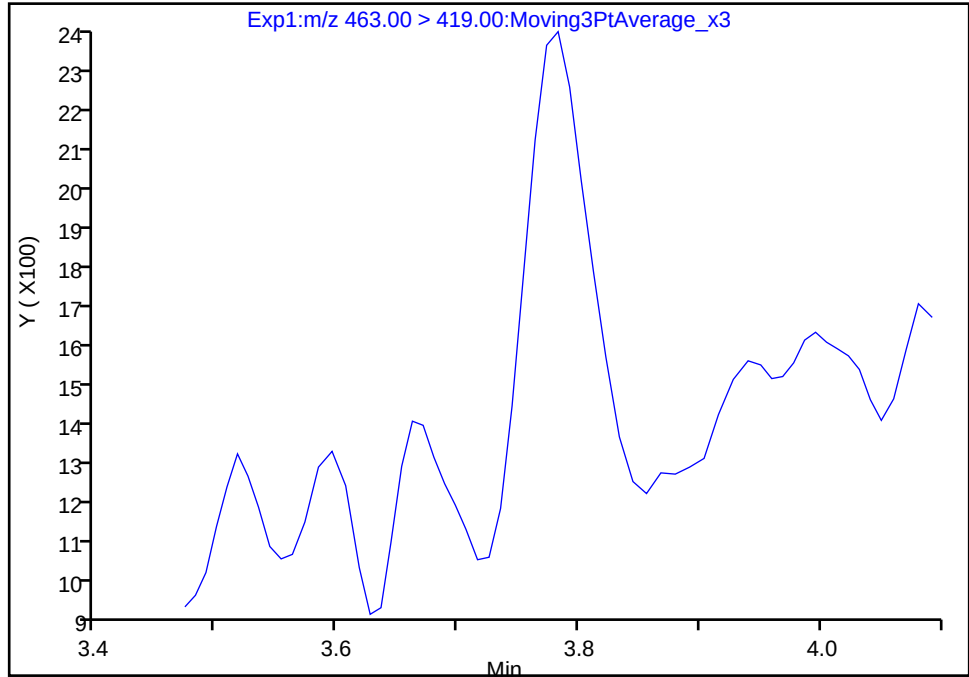
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

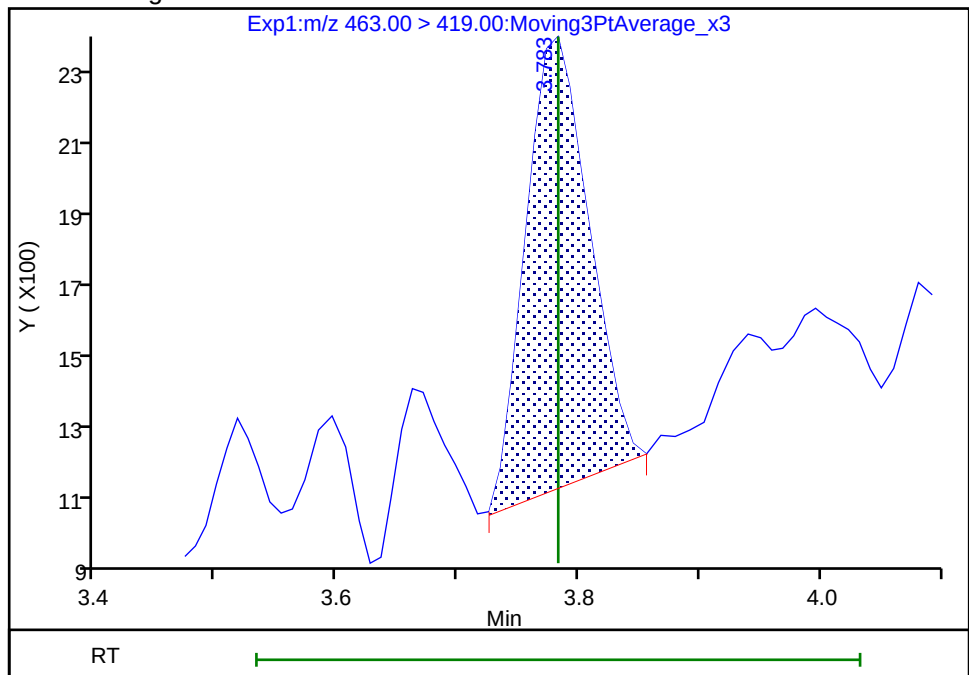
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 4415
Amount: 0.002181
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:23:28

Audit Action: Manually Integrated

Audit Reason: Missed Peak

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PM

Eurofins Burlington

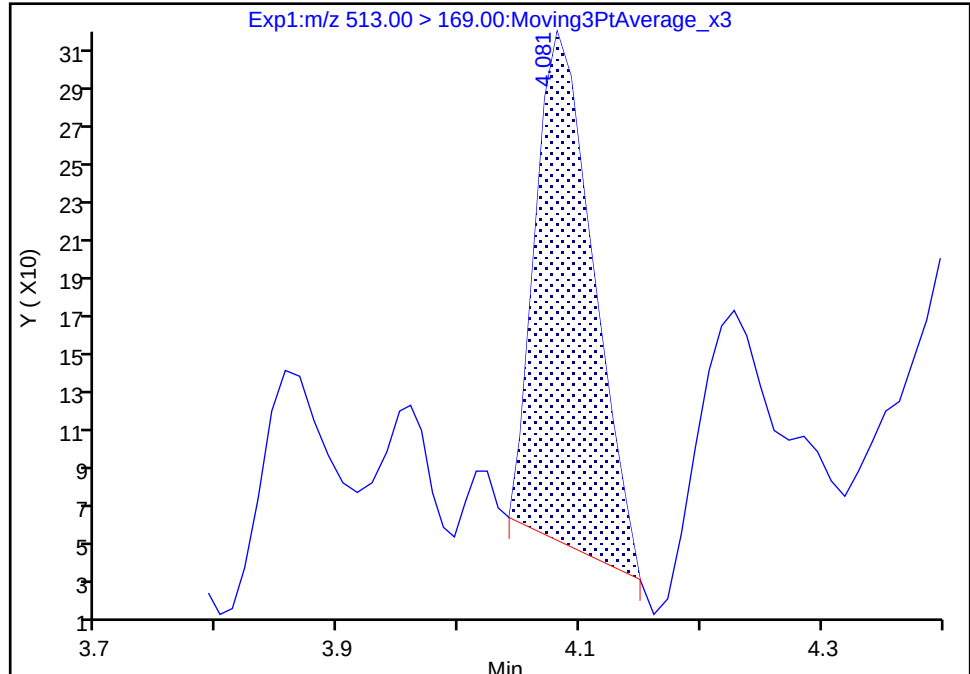
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

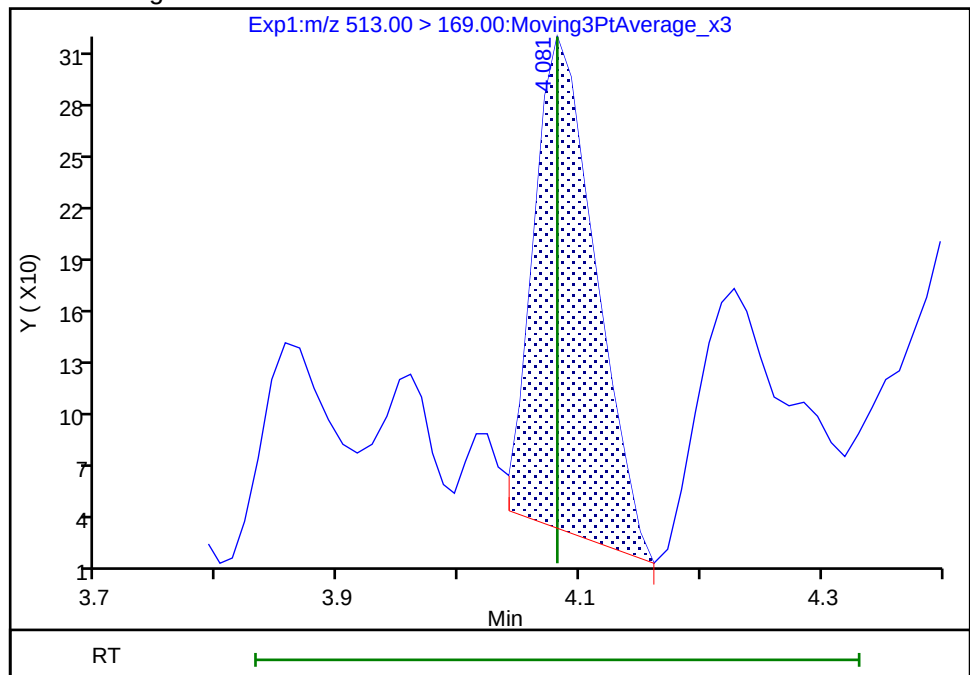
RT: 4.08
Area: 876
Amount: 0.002760
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 996
Amount: 0.002760
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:54

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

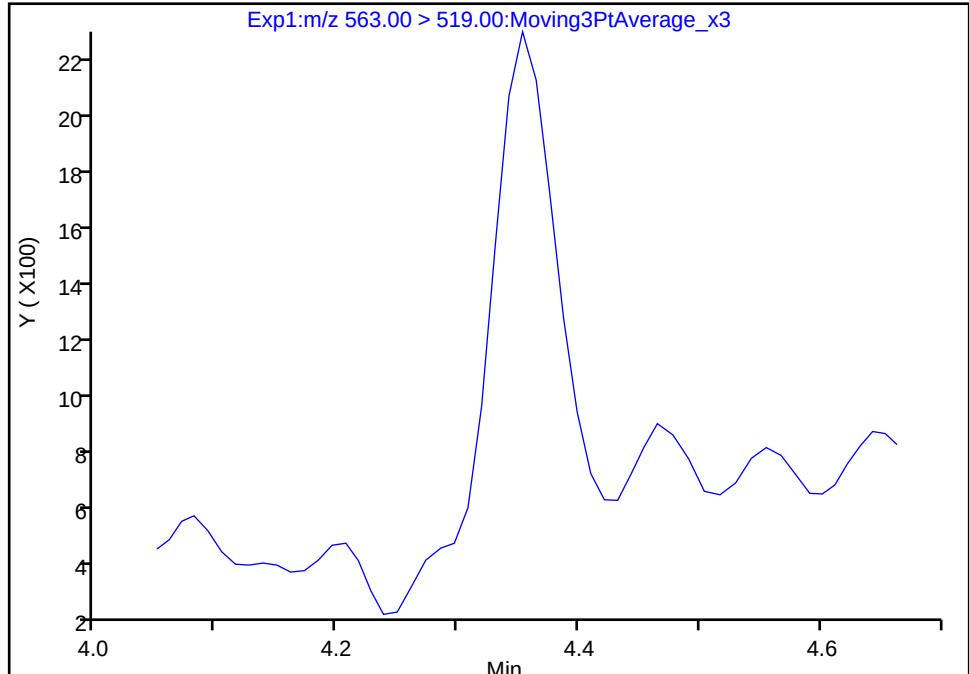
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

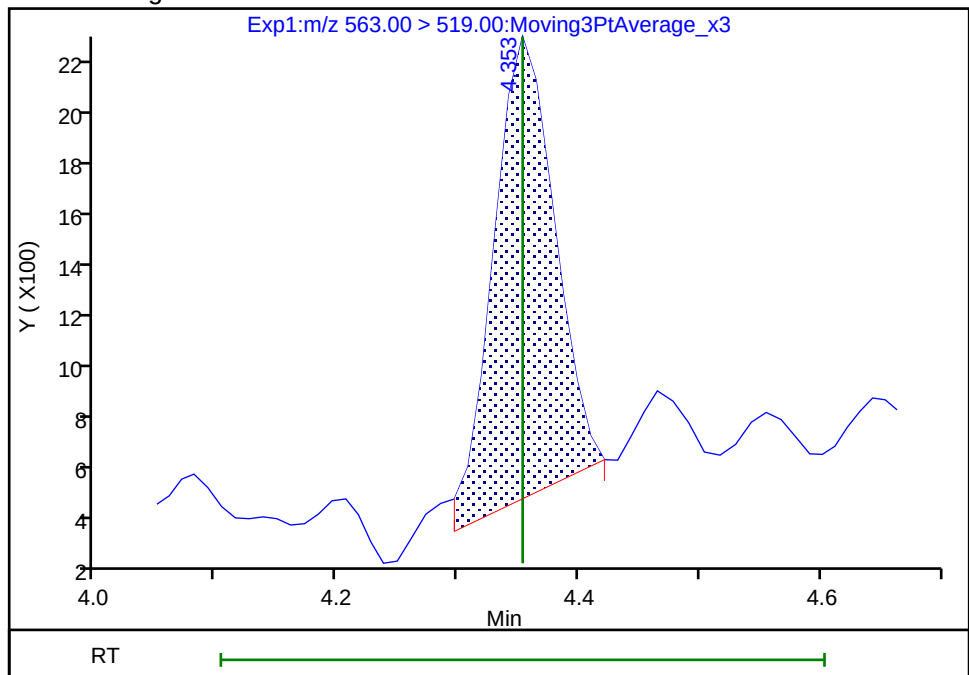
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 6156
Amount: 0.003349
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:24:41

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

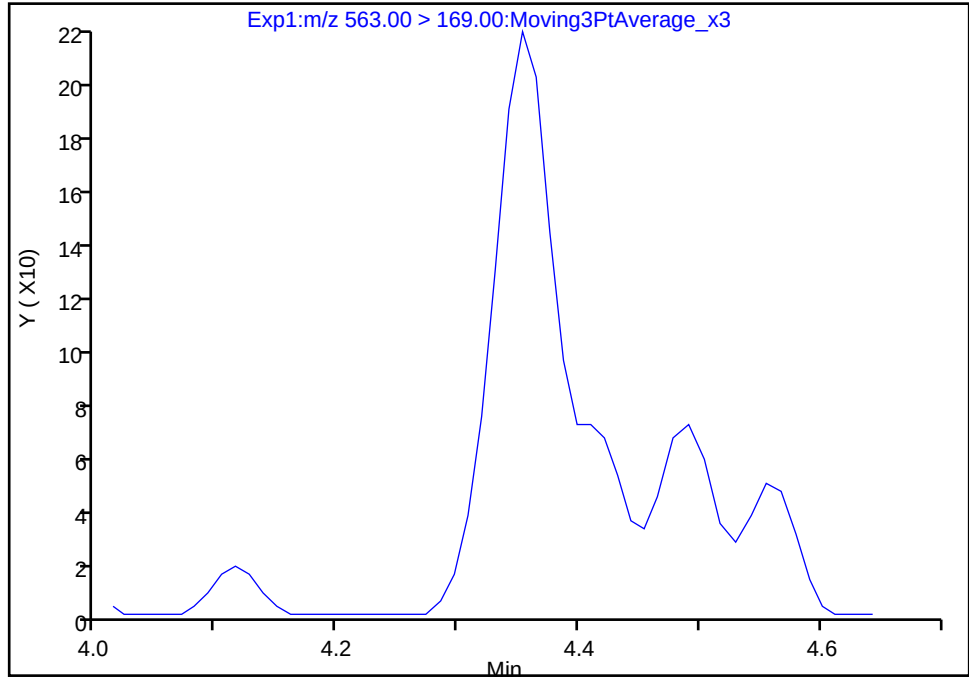
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

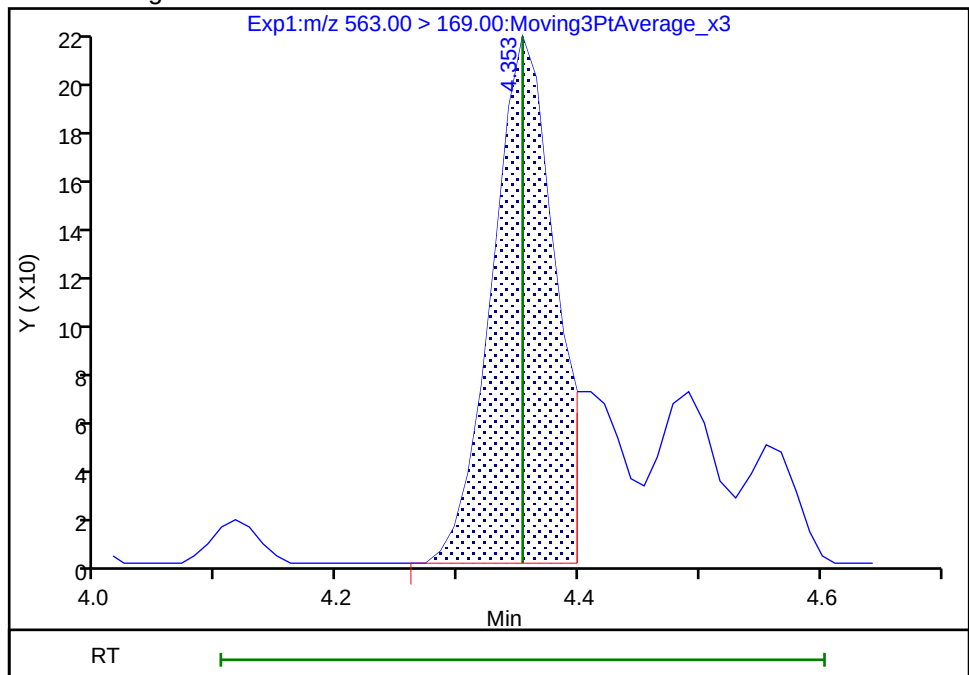
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 773
Amount: 0.003349
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:24:44

Audit Action: Manually Integrated

Audit Reason: Missed Peak

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Eurofins Burlington

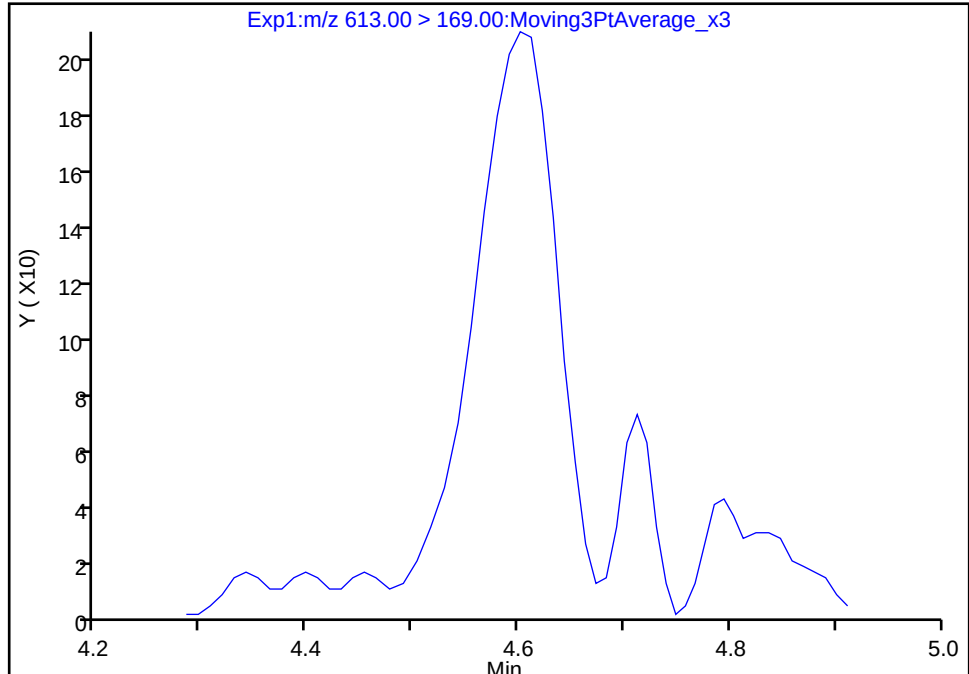
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

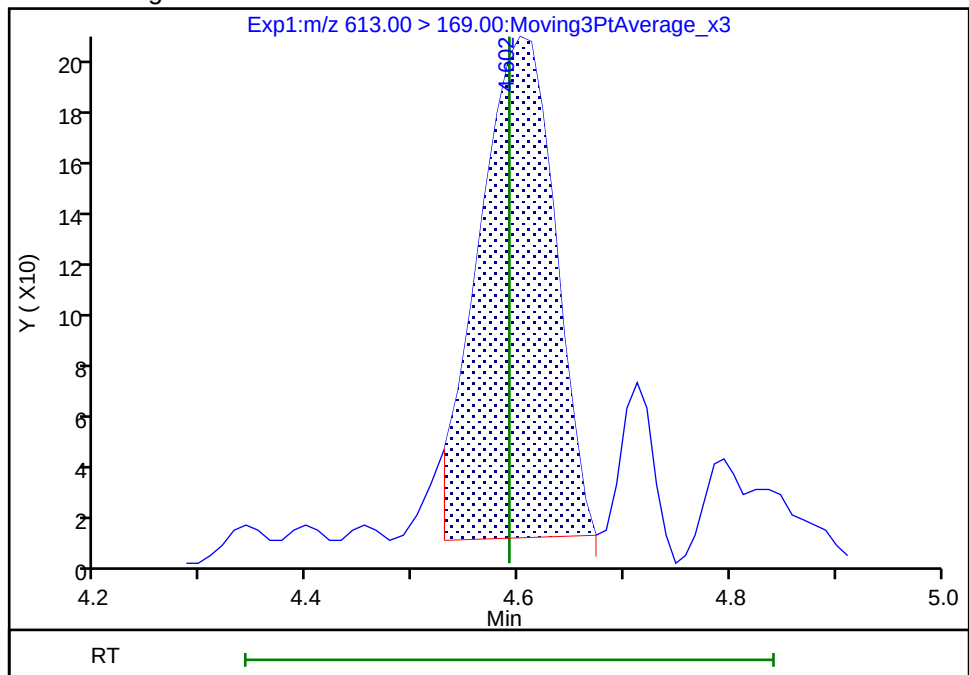
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 984
Amount: 0.003355
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:25:29

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

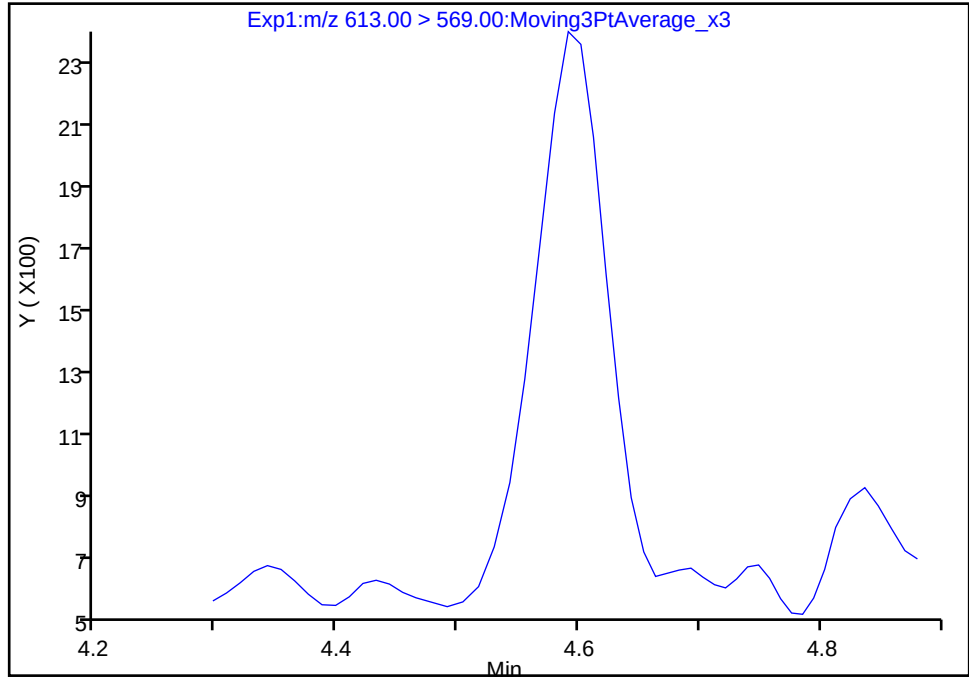
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

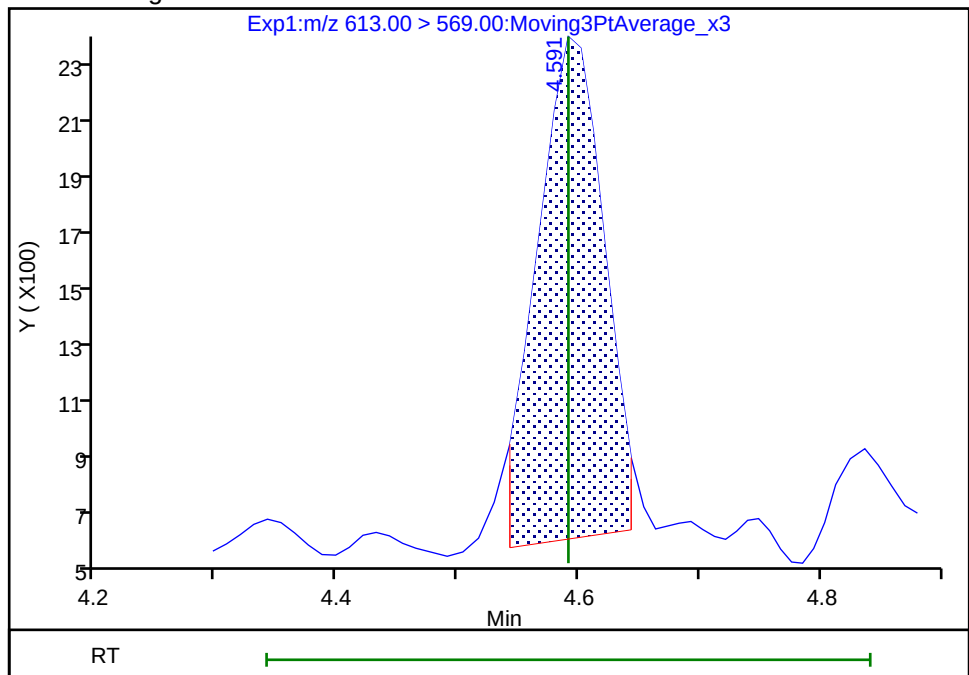
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 6630
Amount: 0.003355
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:25:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

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PM

Eurofins Burlington

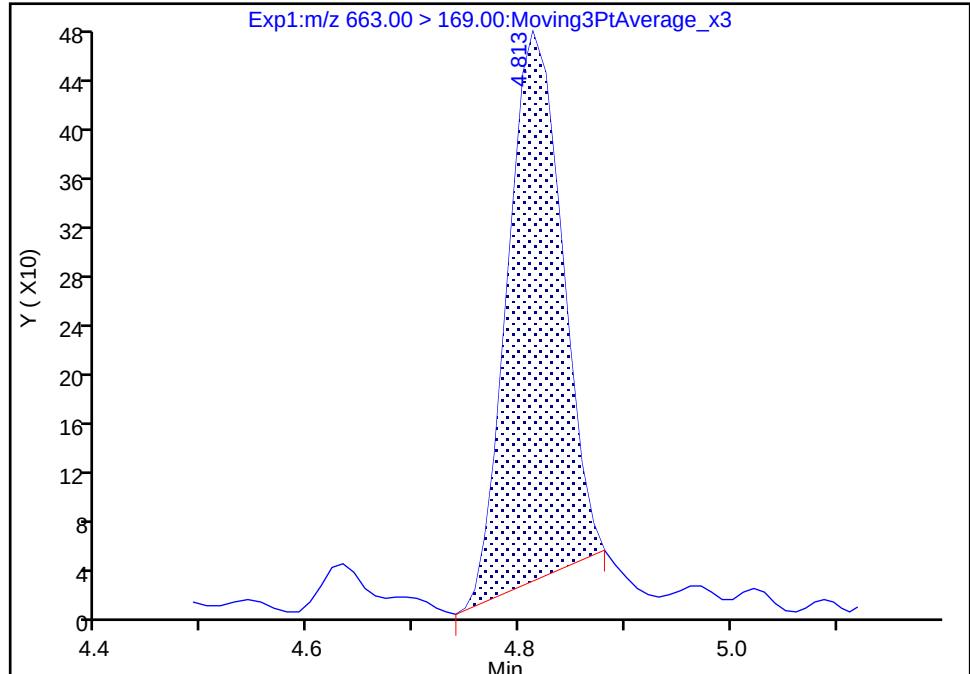
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

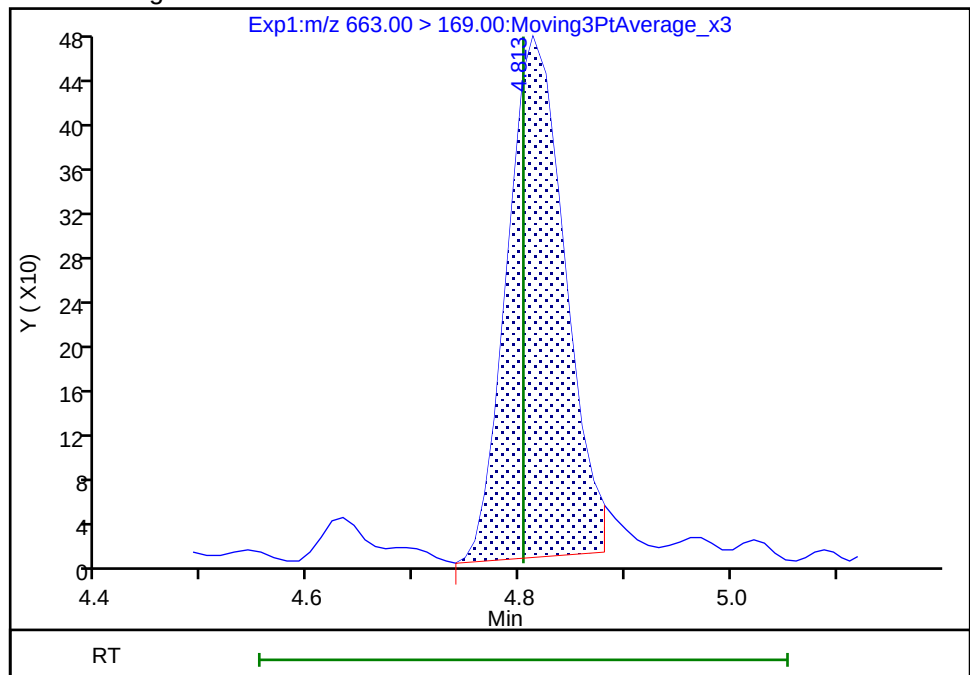
RT: 4.81
Area: 1591
Amount: 0.003827
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1768
Amount: 0.003827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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1/9/2023 1:38
PM

Eurofins Burlington

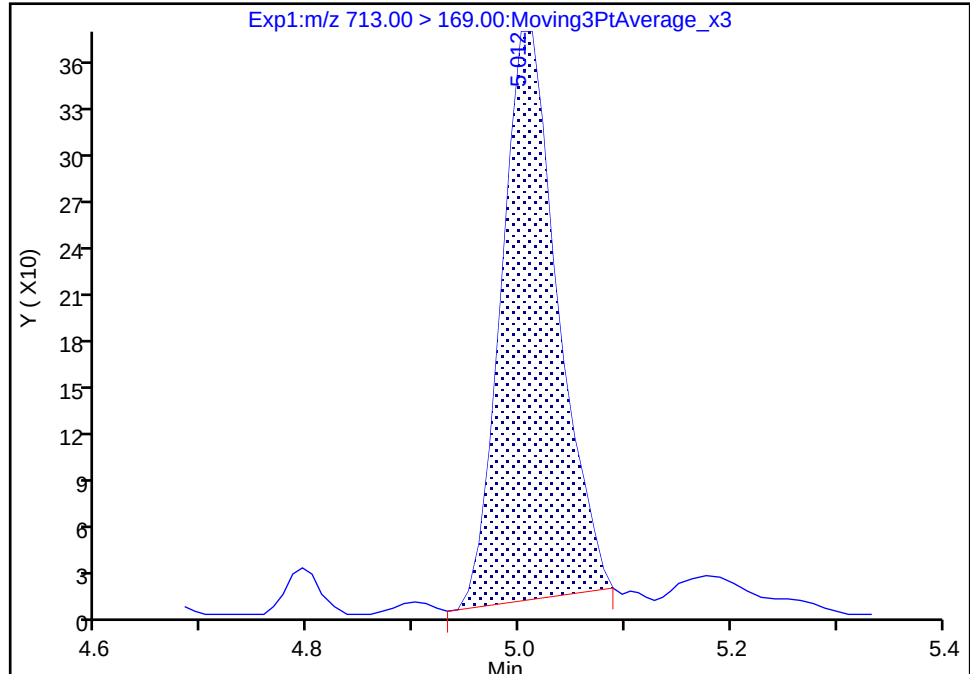
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

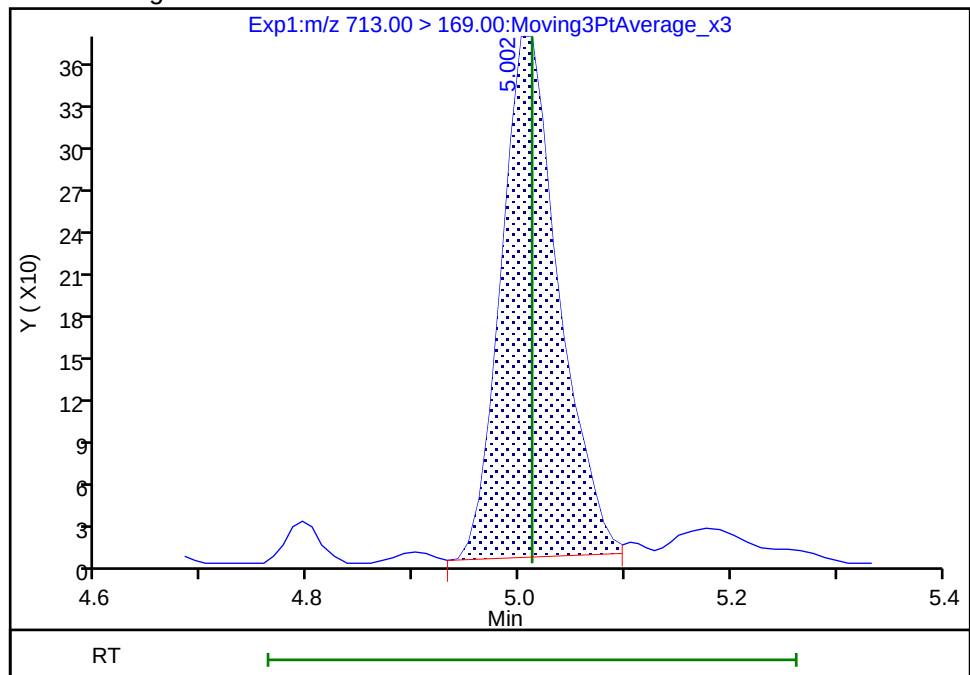
RT: 5.01
Area: 1356
Amount: 0.006171
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1409
Amount: 0.006412
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

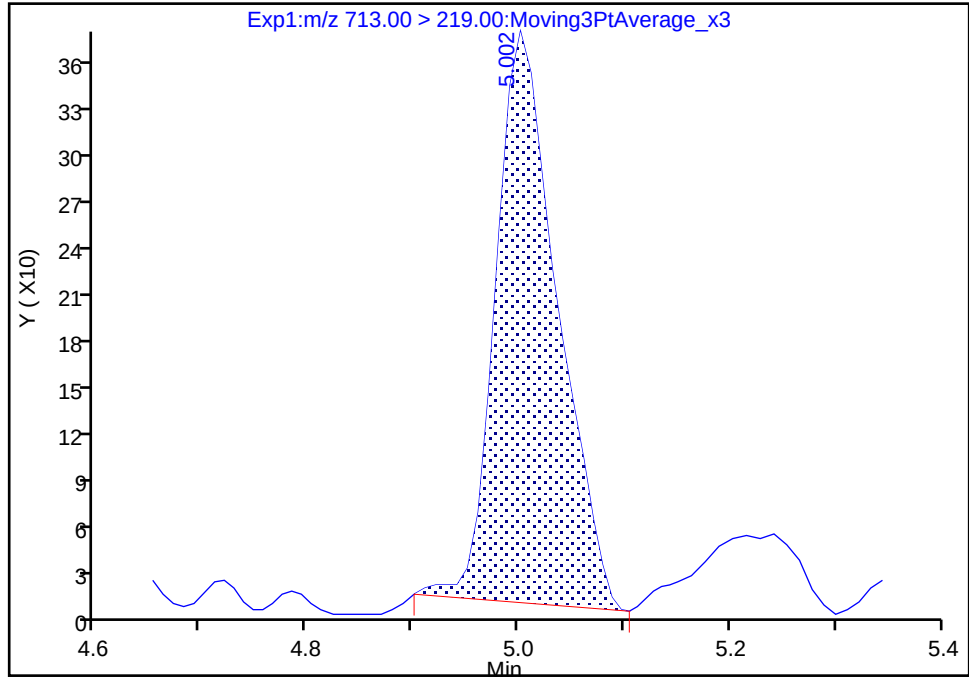
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

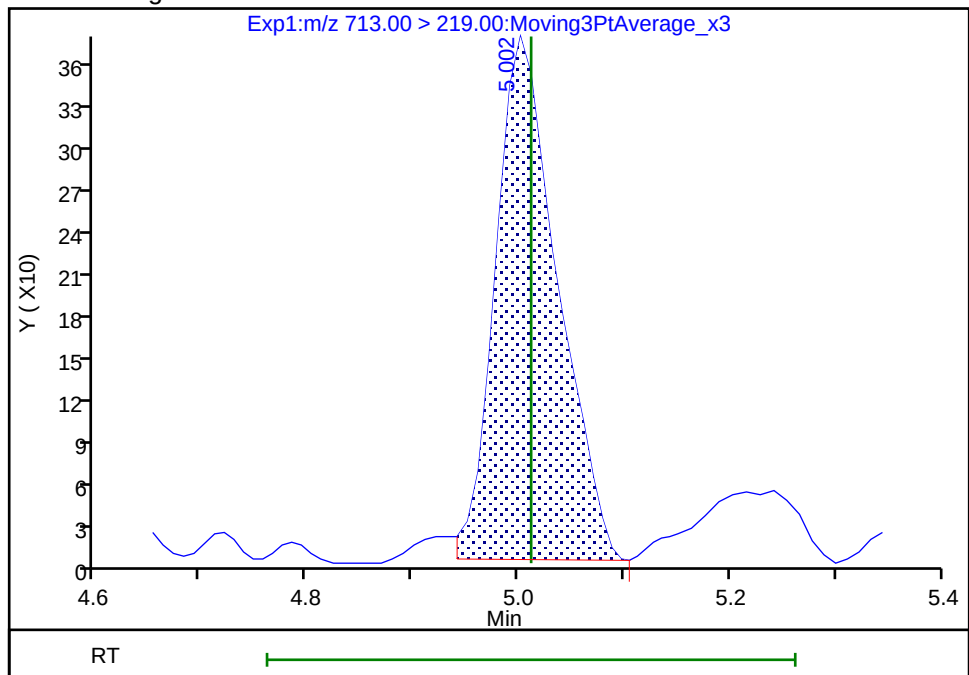
RT: 5.00
Area: 1502
Amount: 0.006171
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1526
Amount: 0.006412
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

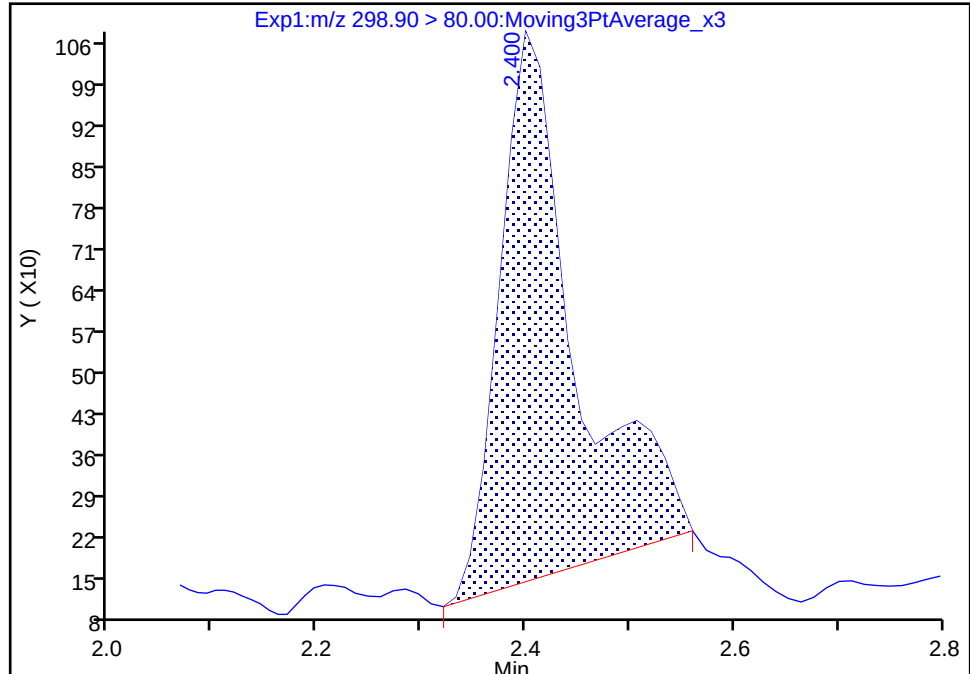
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

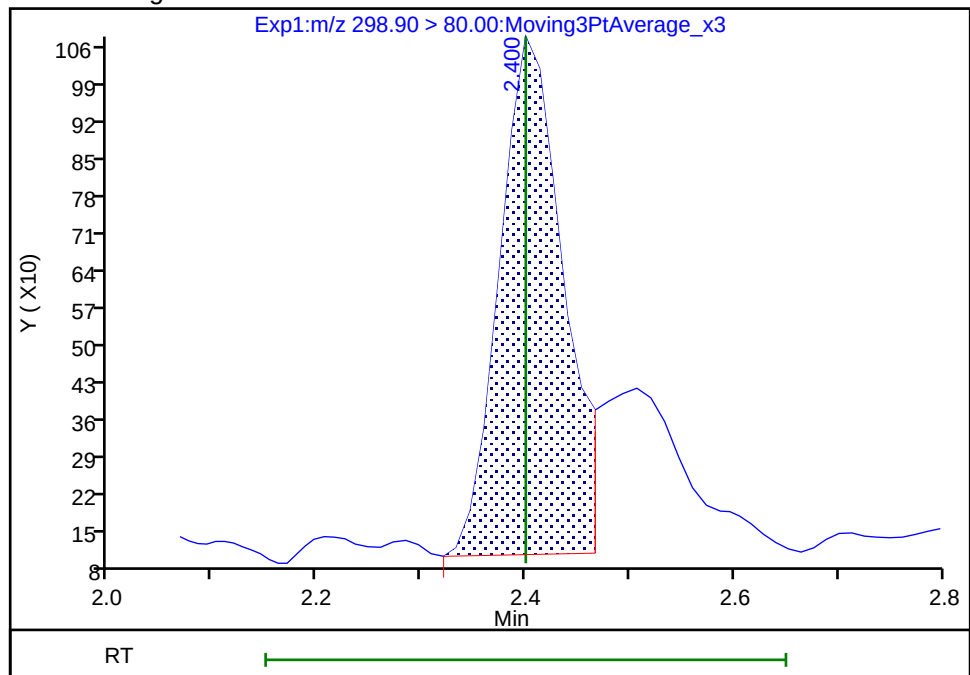
RT: 2.40
Area: 4687
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4101
Amount: 0.001999
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

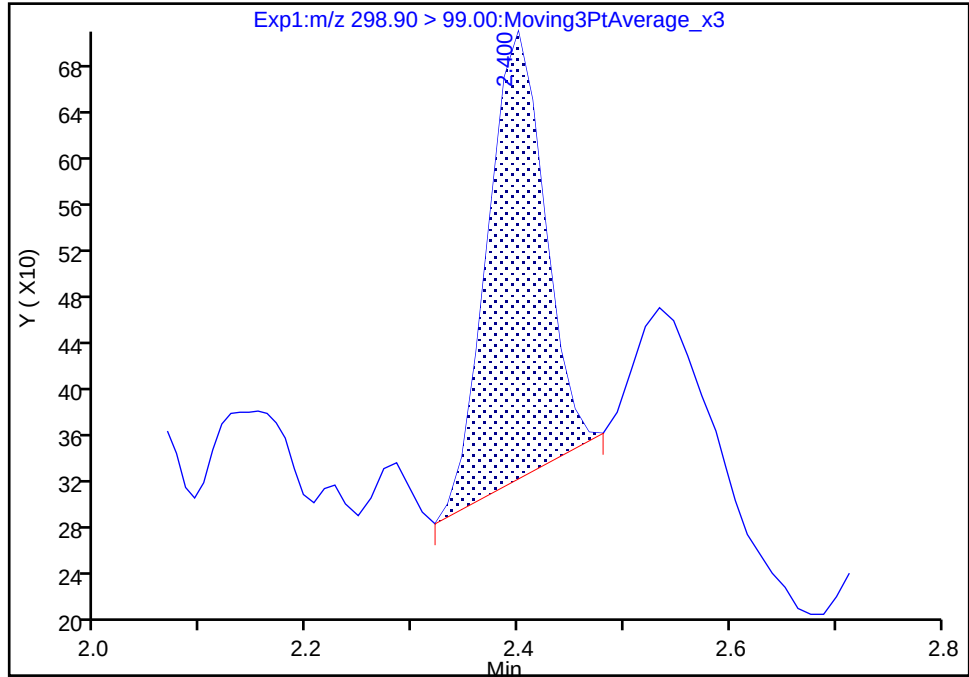
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

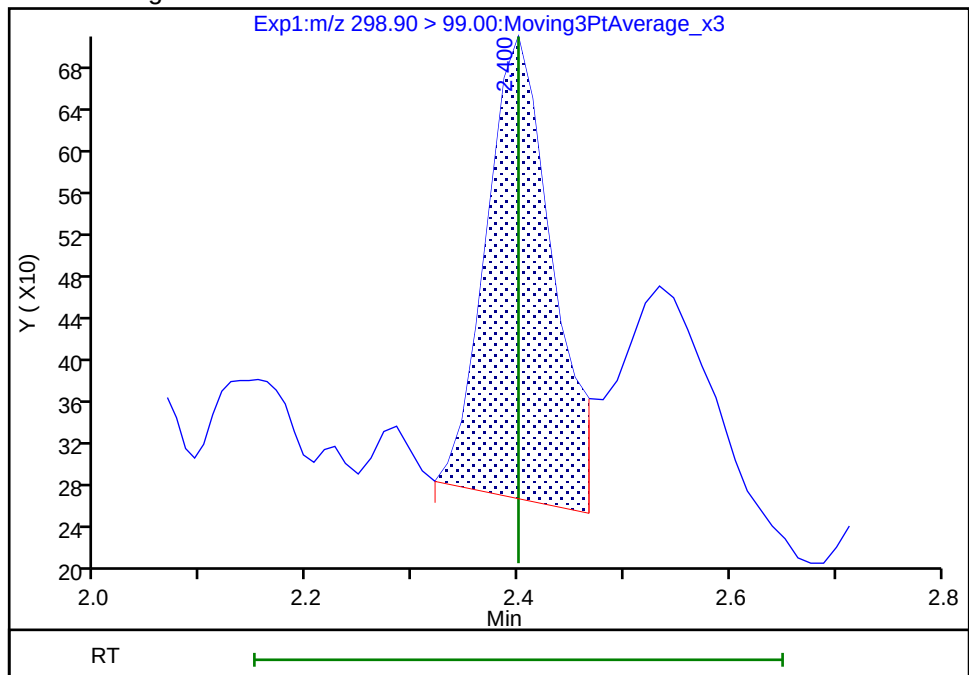
RT: 2.40
Area: 1438
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1875
Amount: 0.001999
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

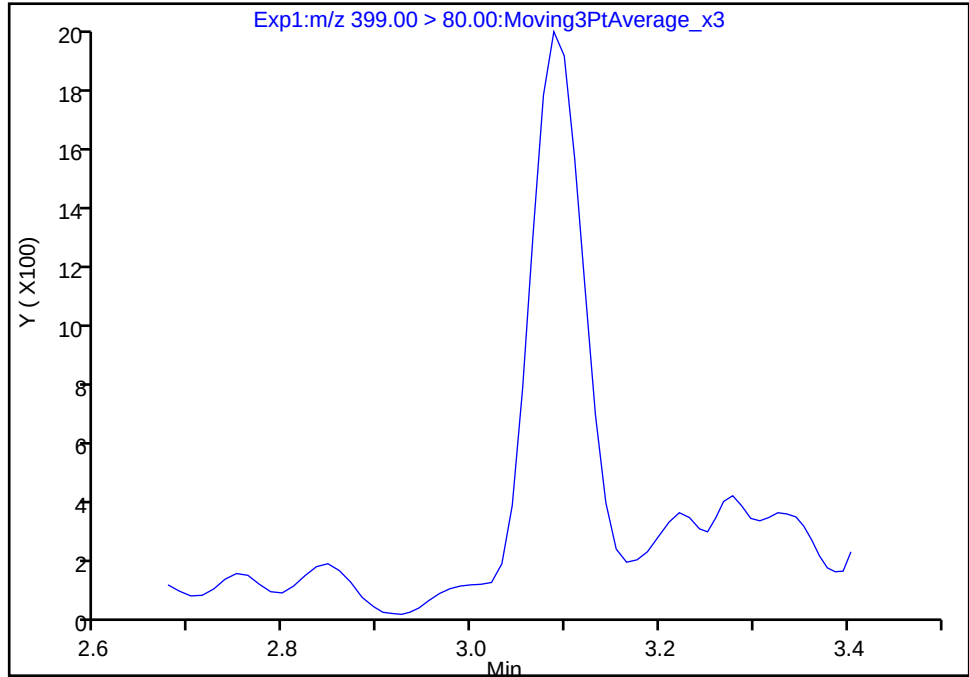
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

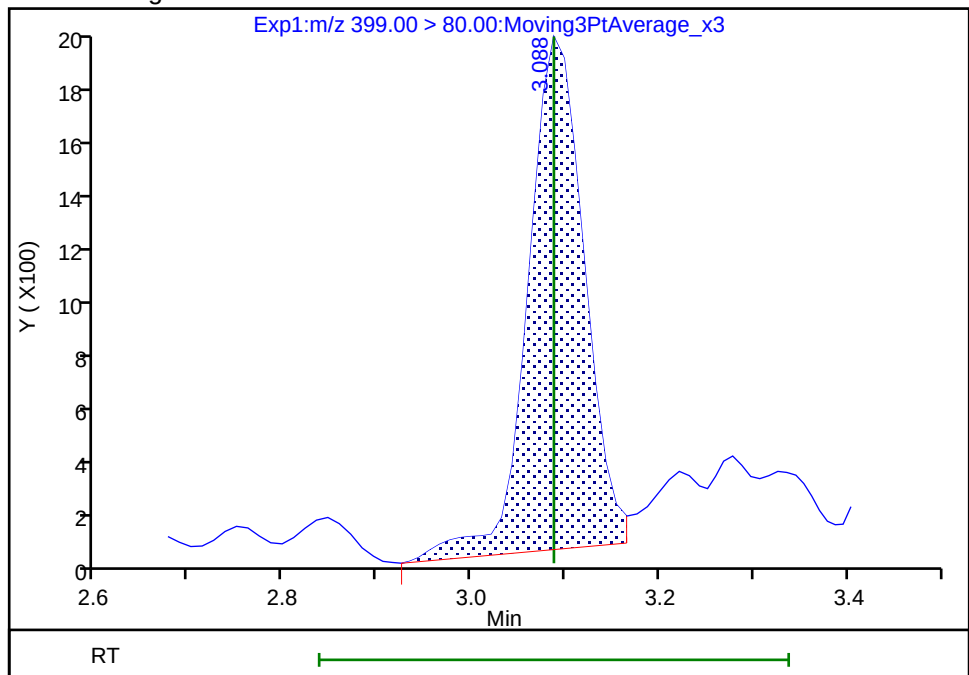
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 7928
Amount: 0.005284
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:21:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

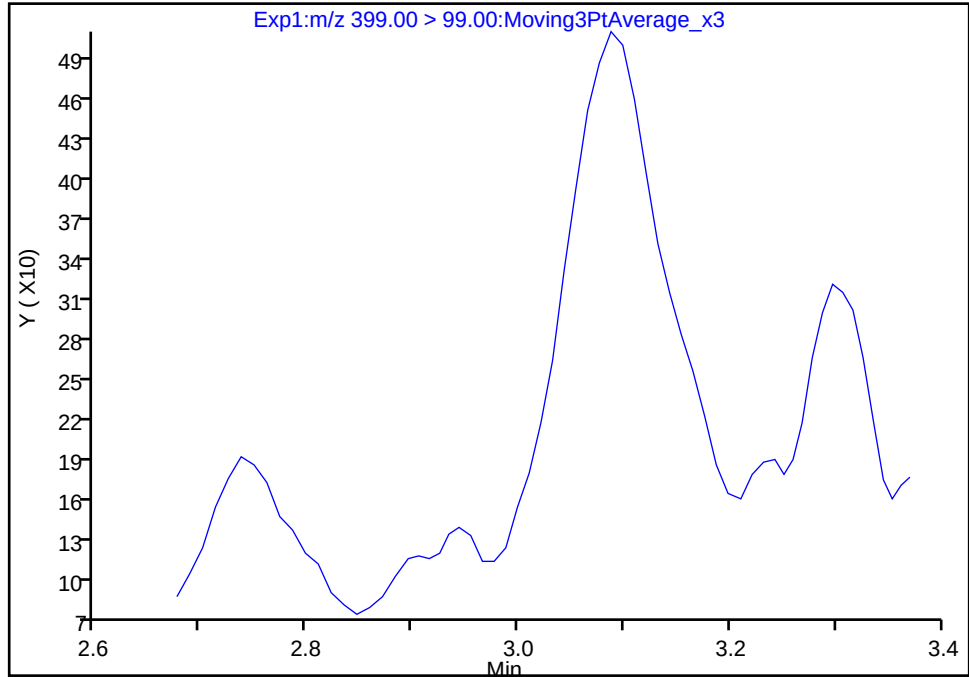
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

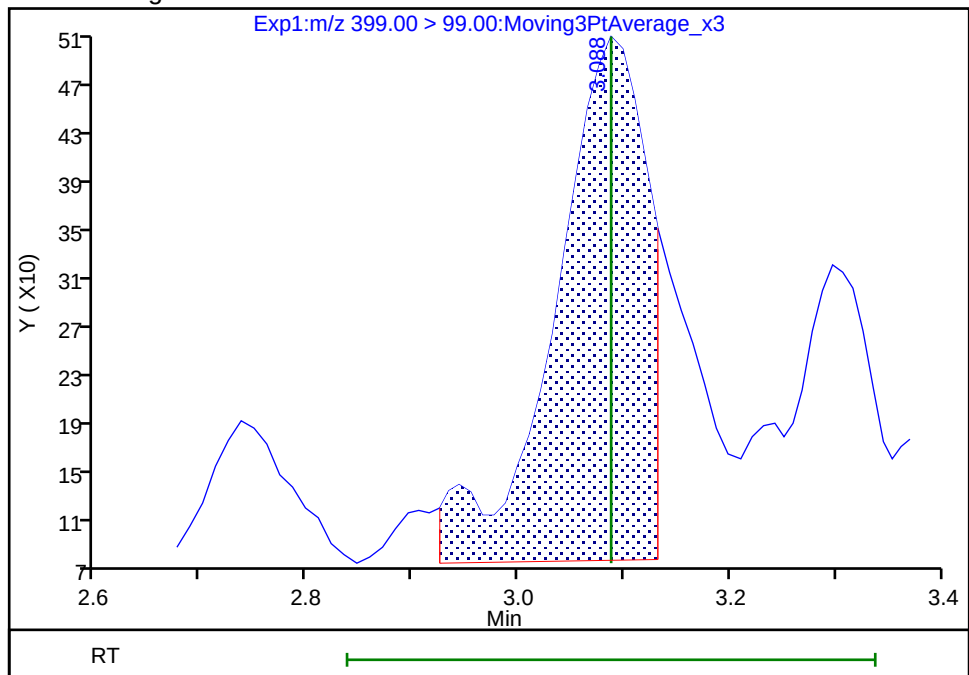
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 2543
Amount: 0.005284
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:21:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

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PM

Eurofins Burlington

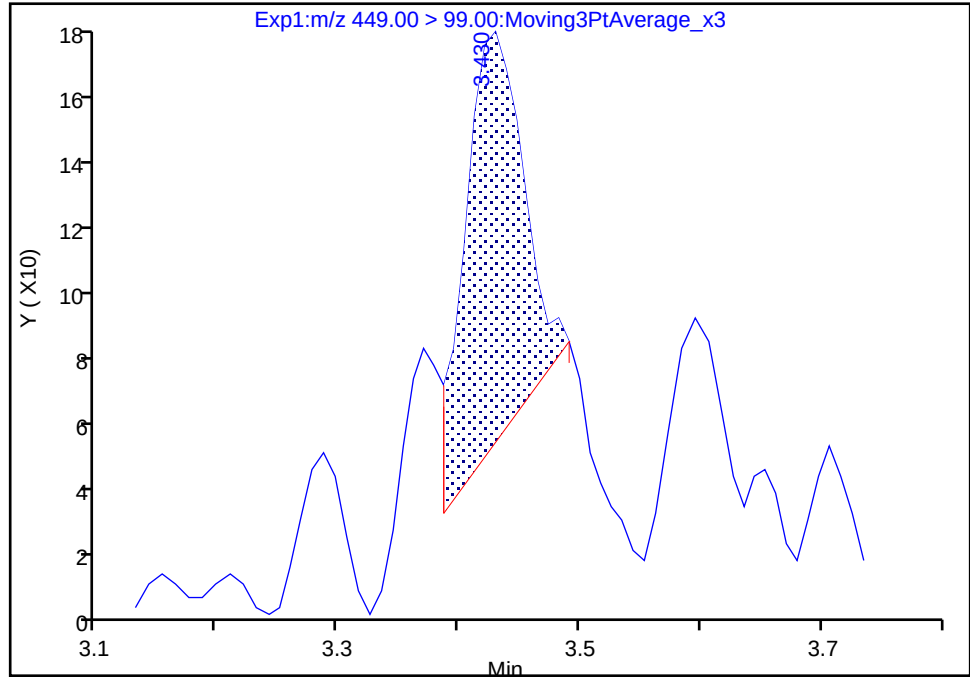
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

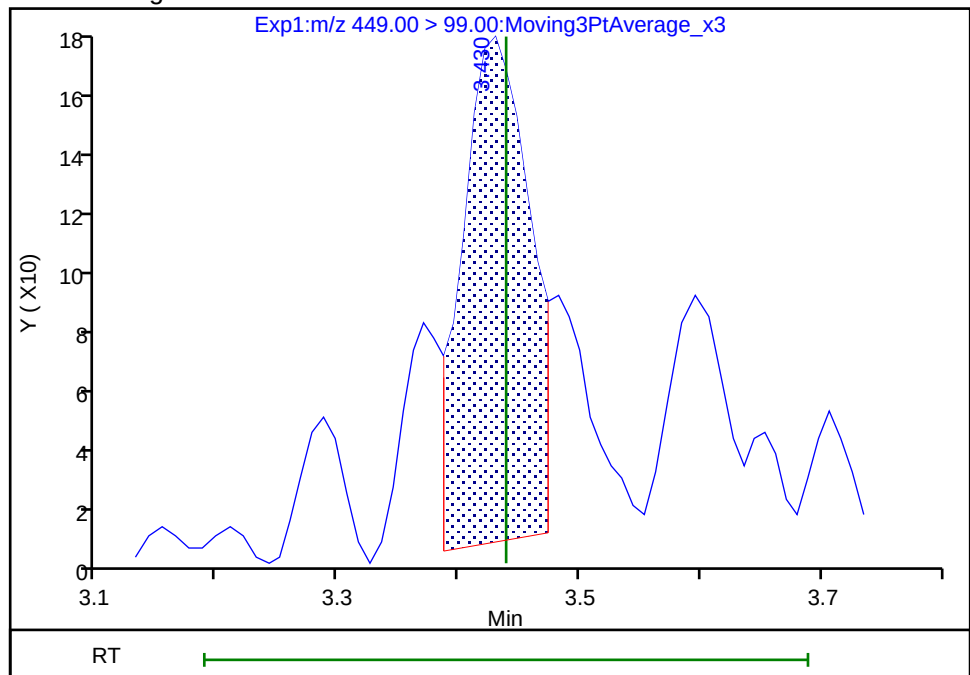
RT: 3.43
Area: 411
Amount: 0.001467
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 631
Amount: 0.001343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:22:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

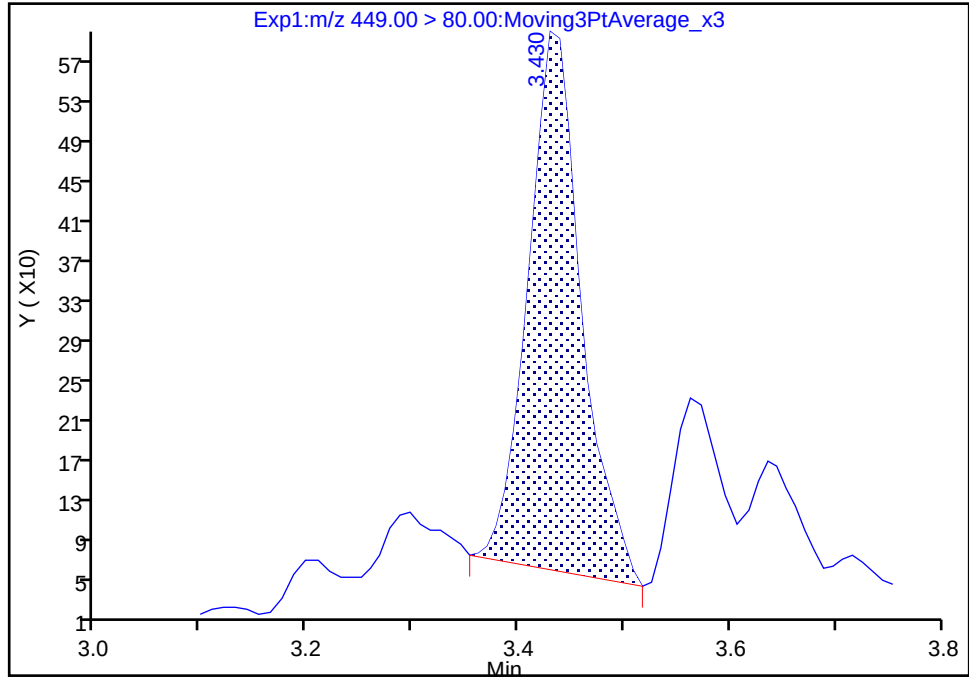
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

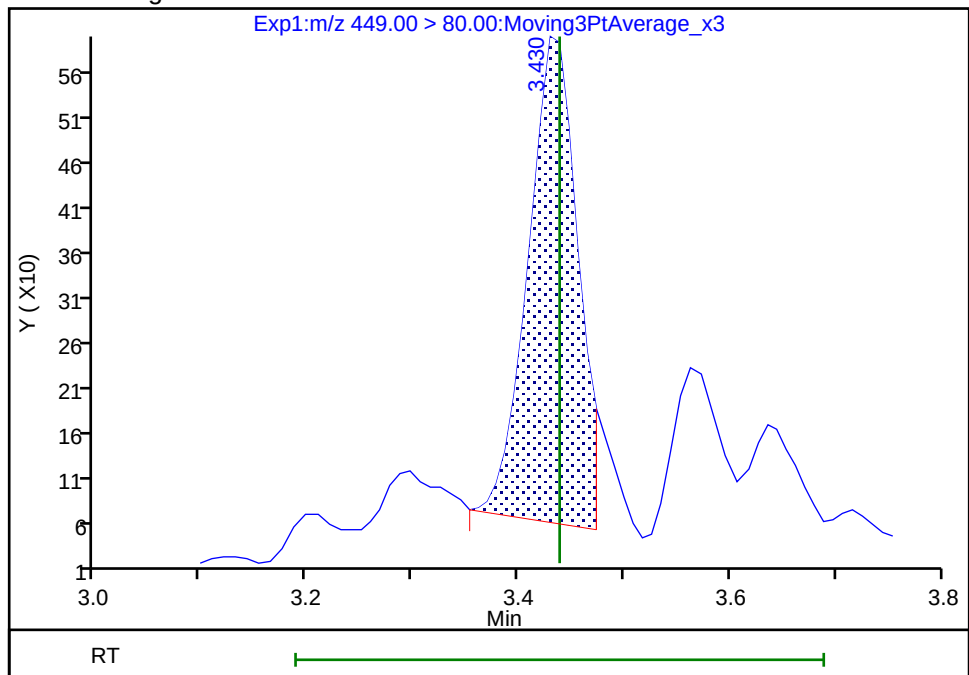
RT: 3.43
Area: 1891
Amount: 0.001467
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1731
Amount: 0.001343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:22:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

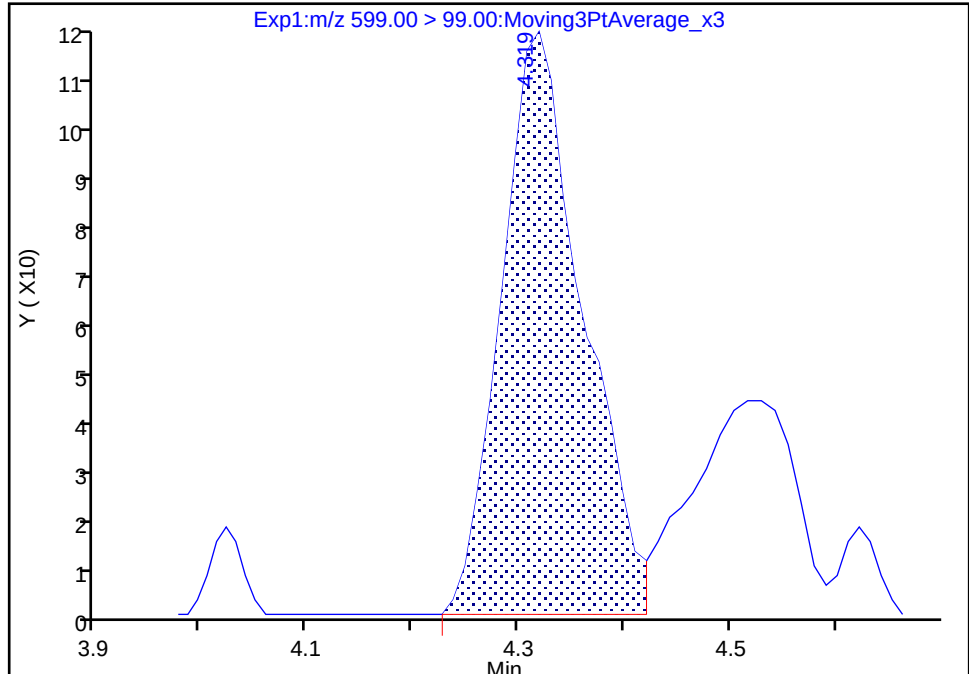
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

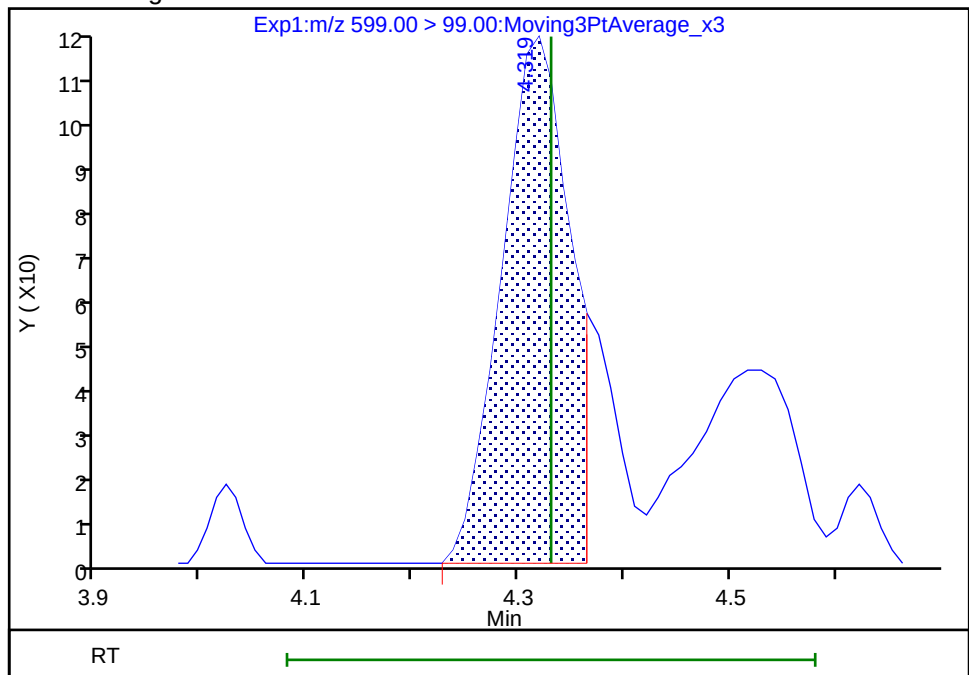
RT: 4.32
Area: 641
Amount: 0.002521
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 530
Amount: 0.002521
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

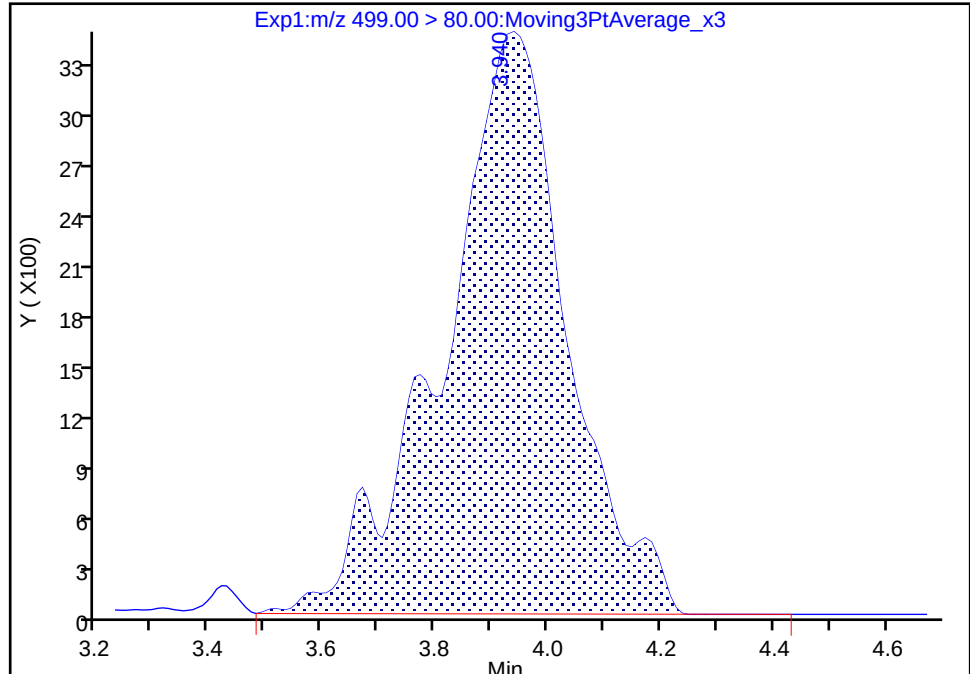
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

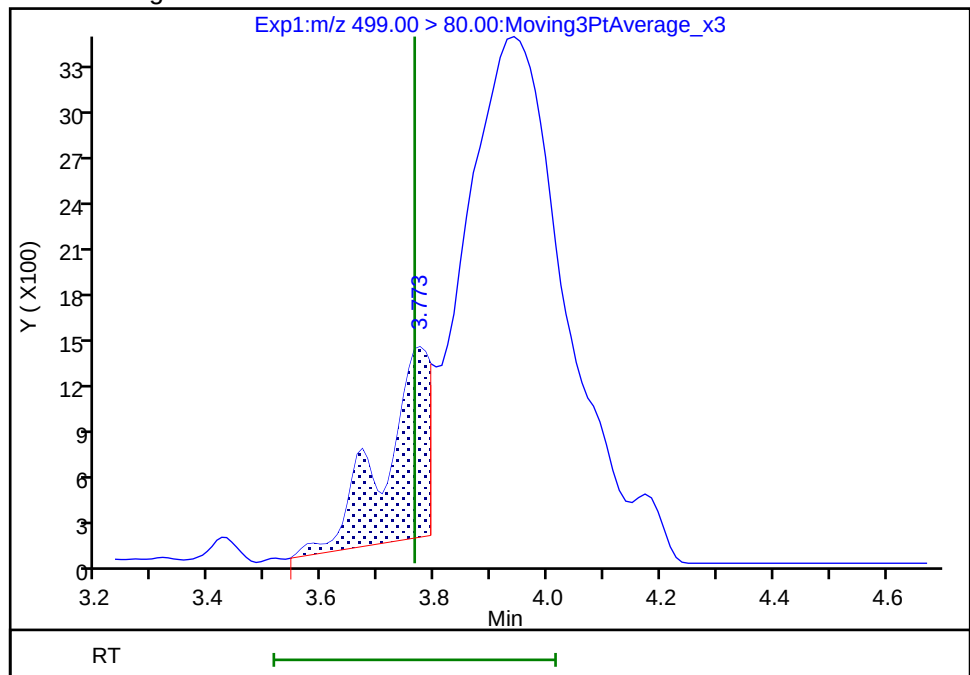
RT: 3.94
Area: 52204
Amount: 0.046510
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 6863
Amount: 0.006115
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

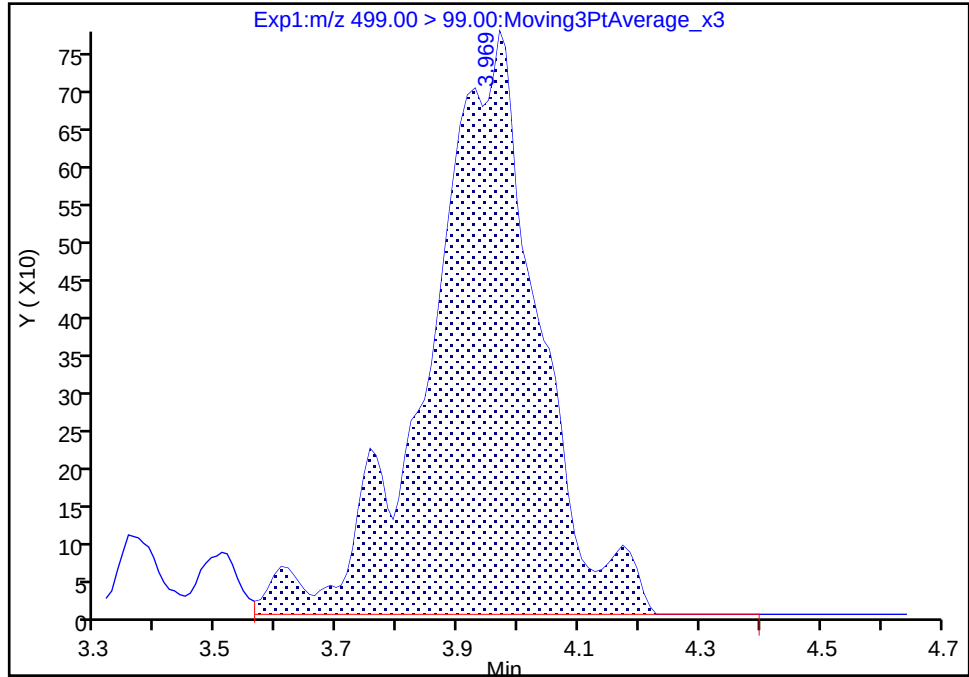
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

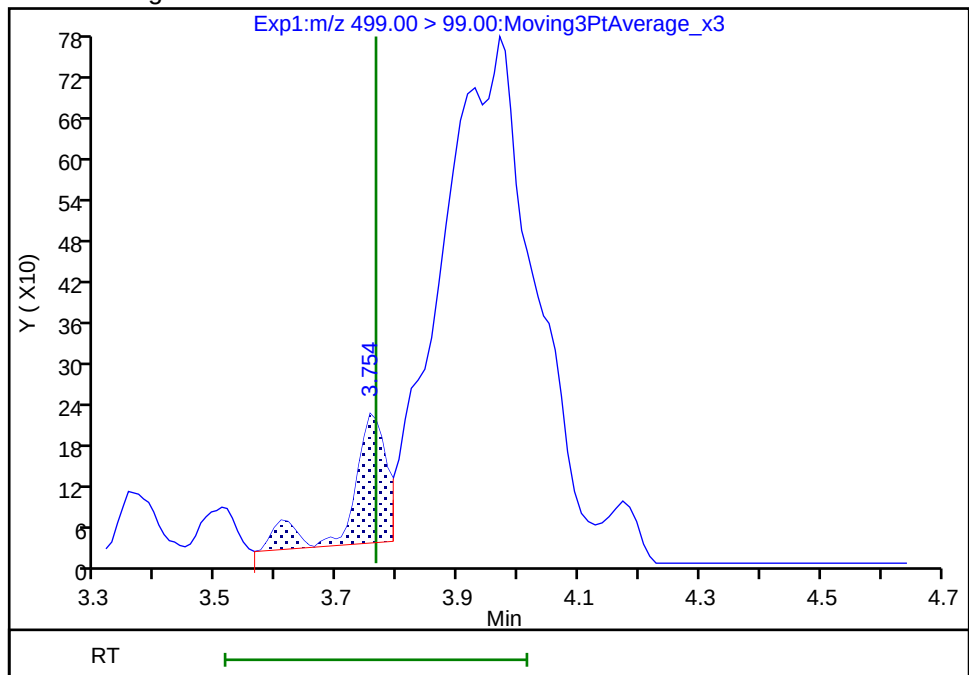
RT: 3.97
Area: 9705
Amount: 0.046510
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 740
Amount: 0.006115
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

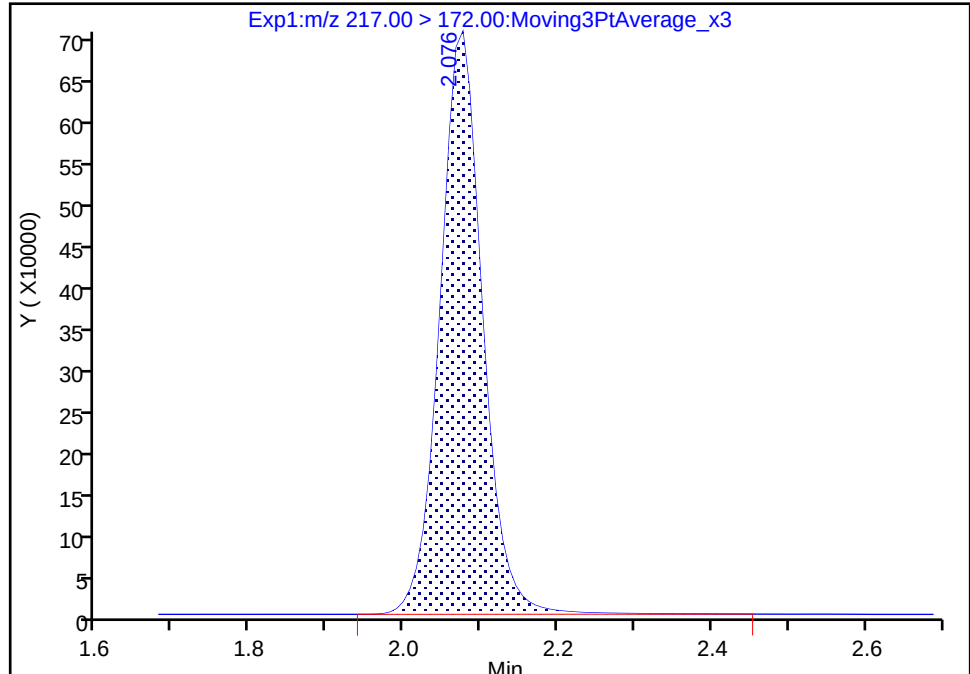
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

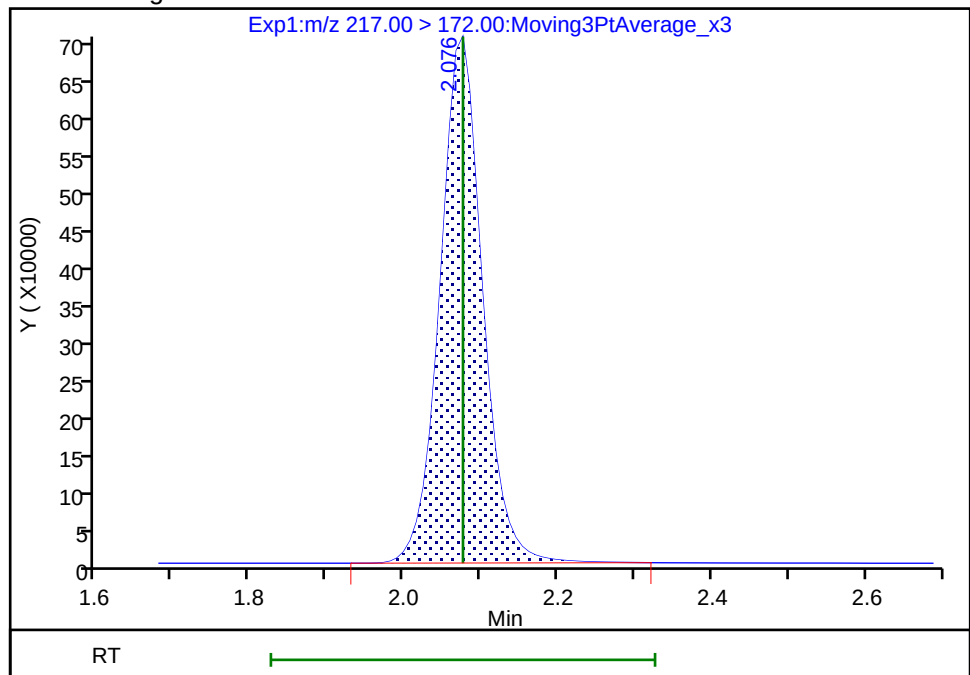
RT: 2.08
Area: 2698297
Amount: 1.324270
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2690789
Amount: 1.320585
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

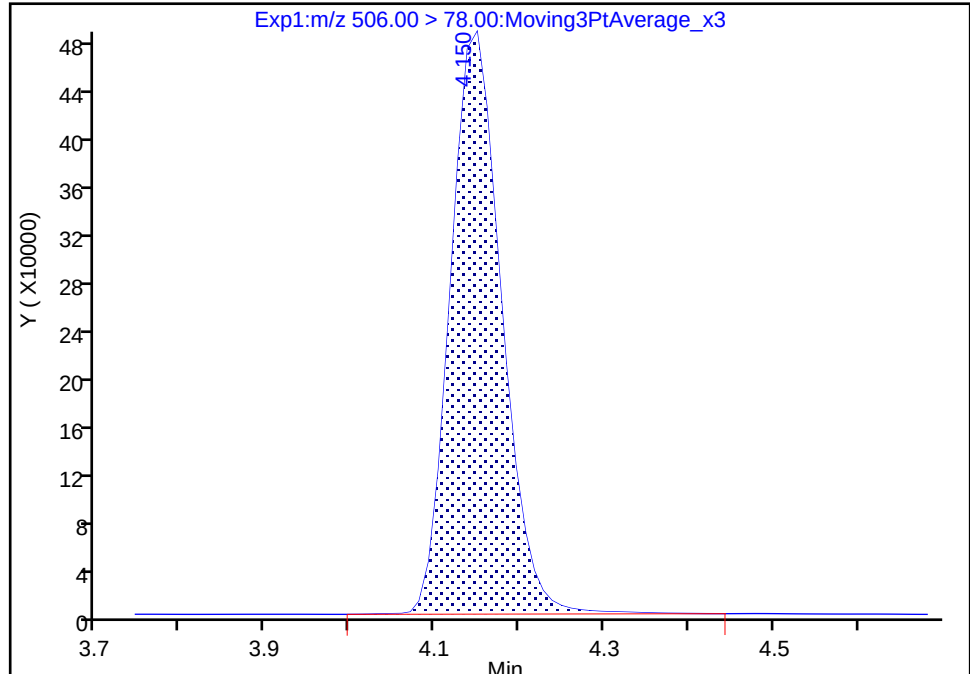
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

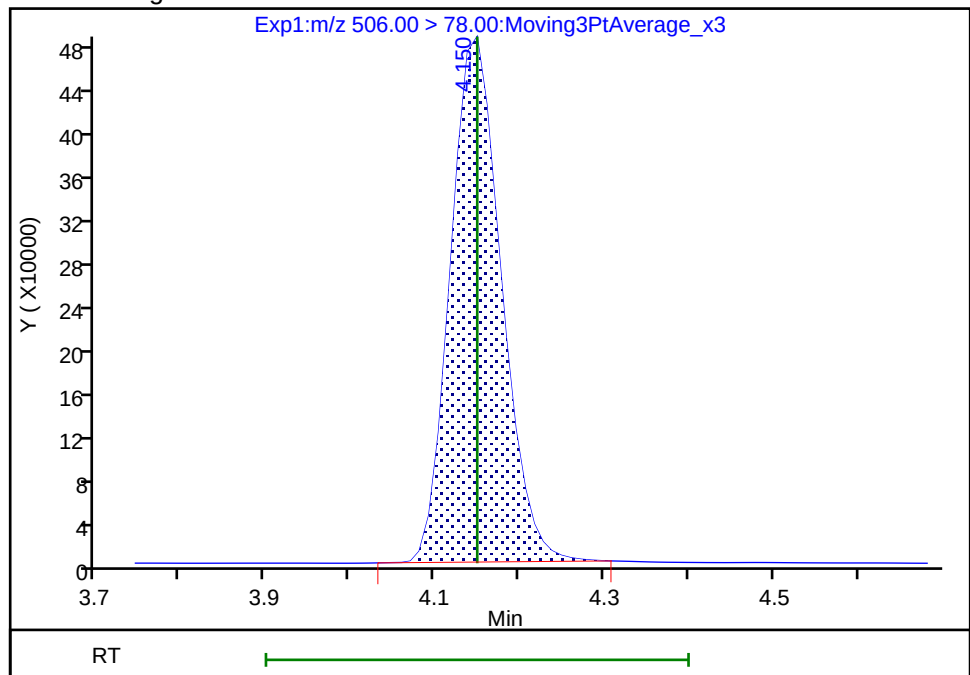
RT: 4.15
Area: 2062770
Amount: 1.351404
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2040818
Amount: 1.337023
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

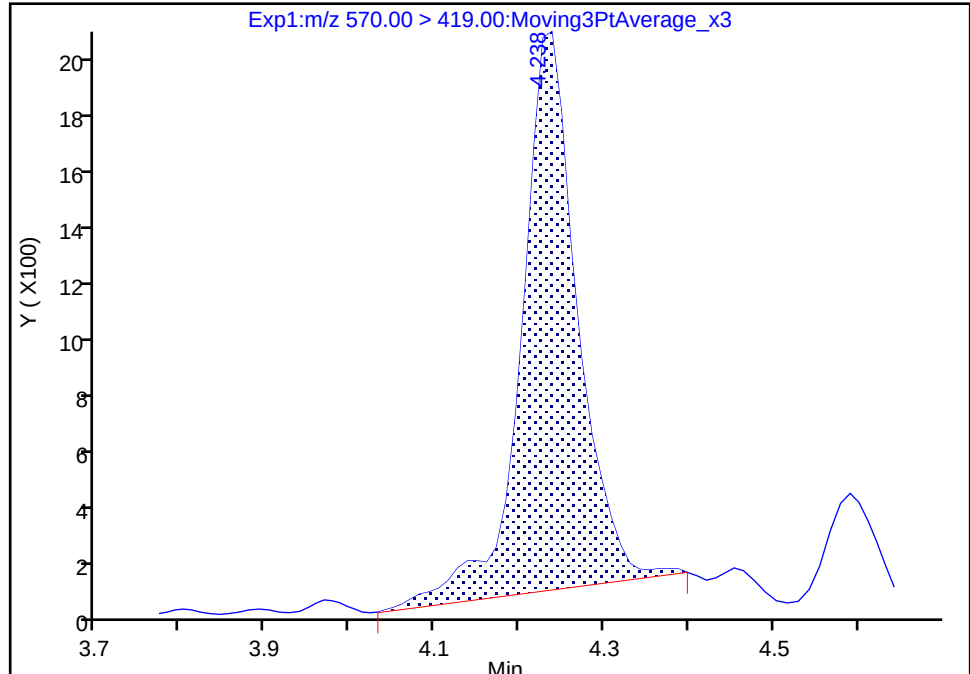
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

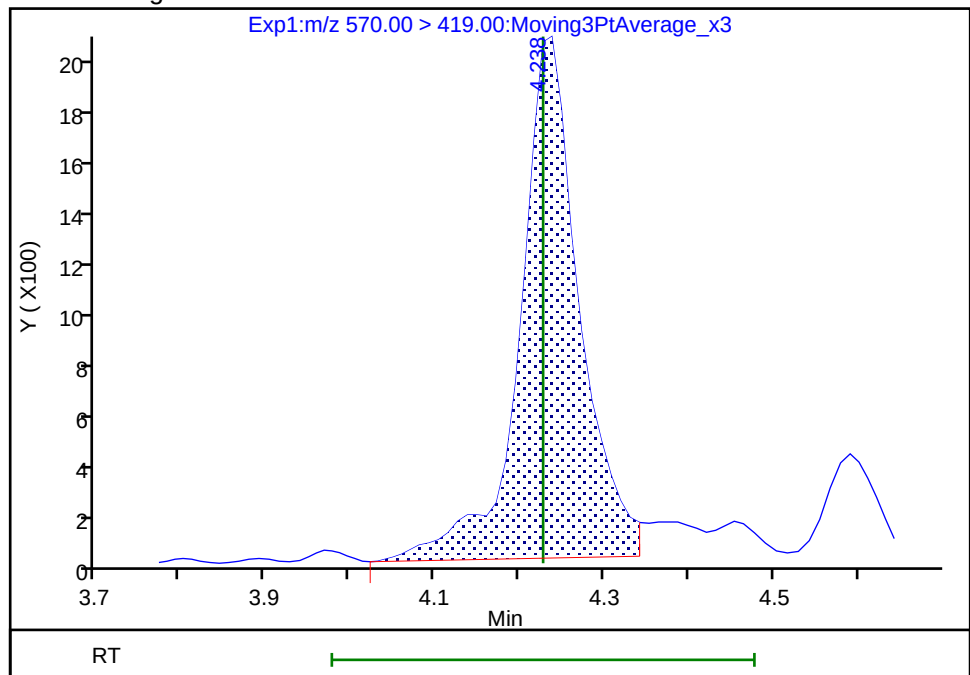
RT: 4.24
Area: 9316
Amount: 0.014803
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 10172
Amount: 0.017231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

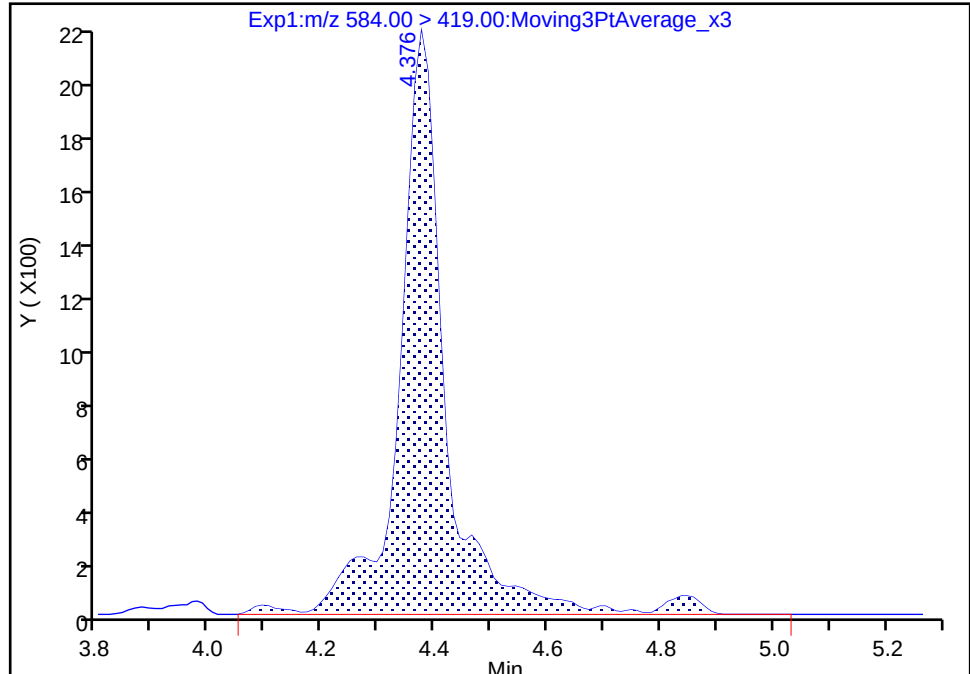
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

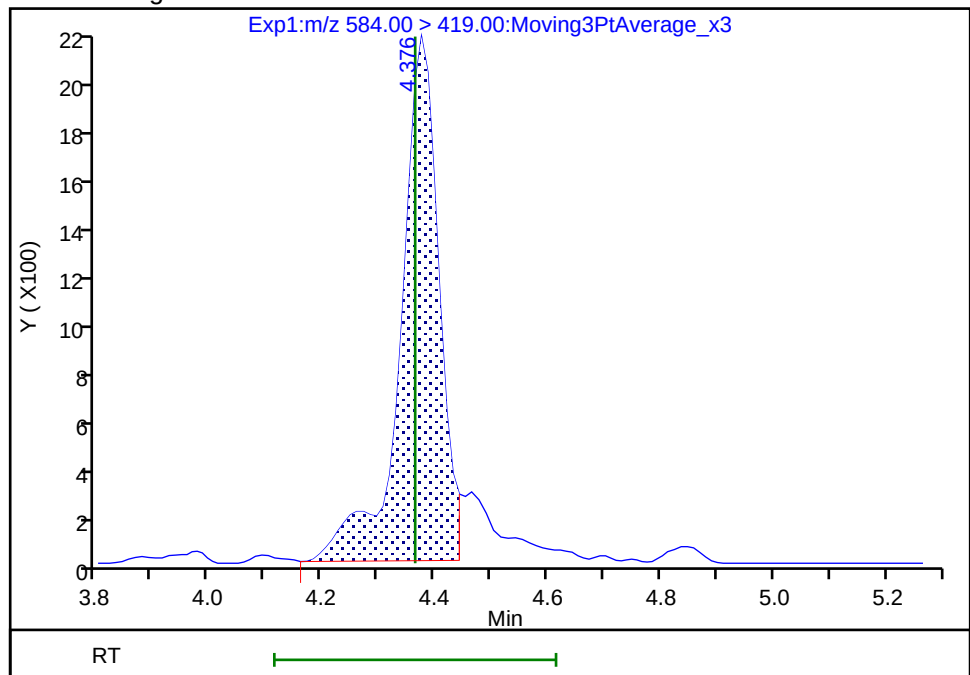
RT: 4.38
Area: 12637
Amount: 0.035132
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 10302
Amount: 0.028856
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

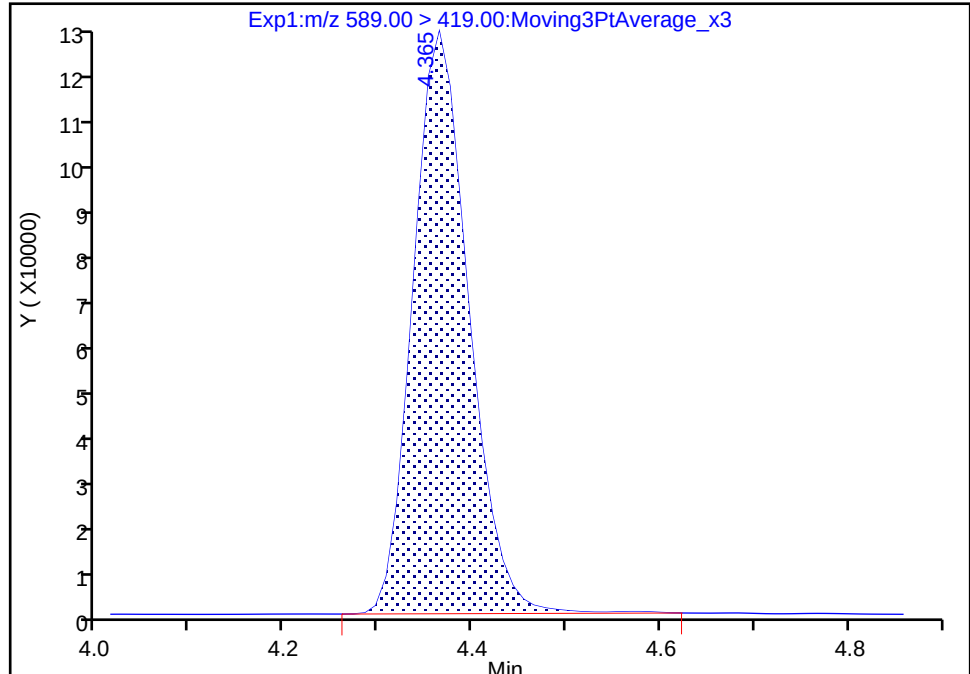
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

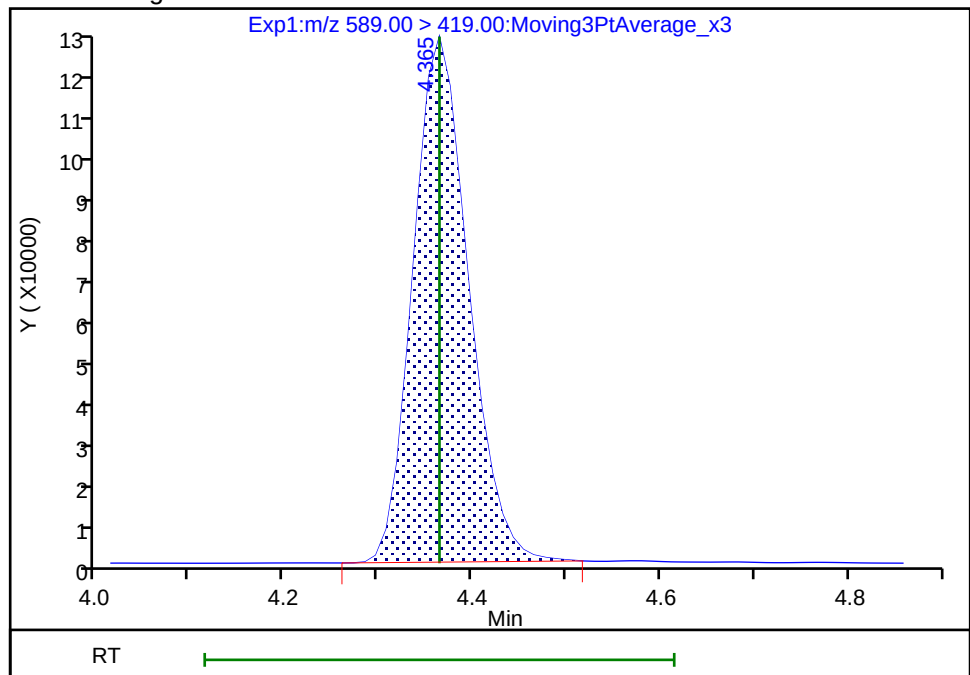
RT: 4.36
Area: 502236
Amount: 1.345514
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 498484
Amount: 1.335462
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:25:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

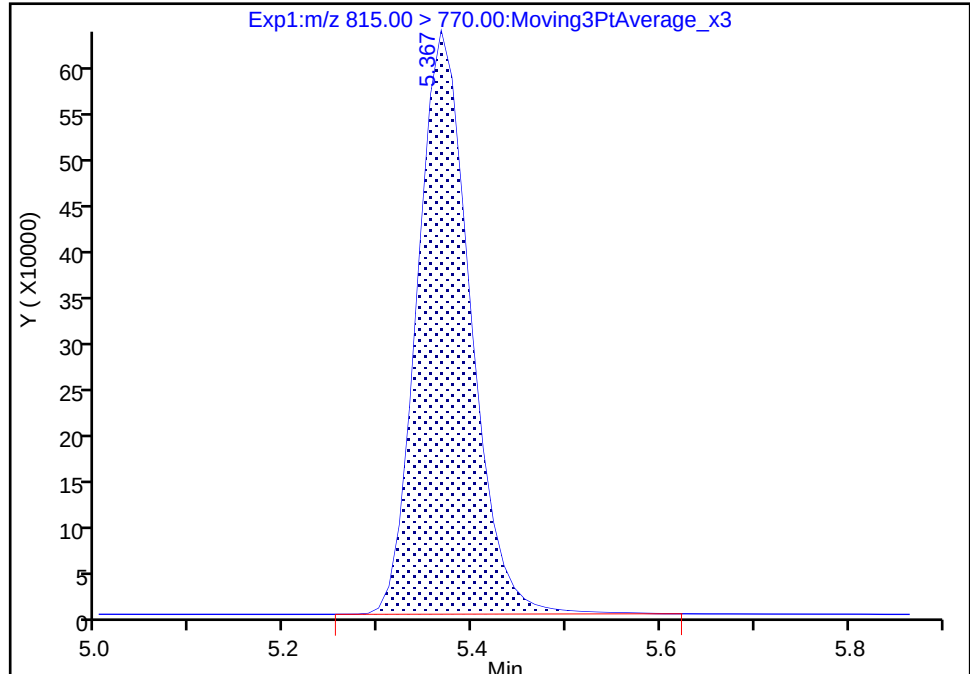
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

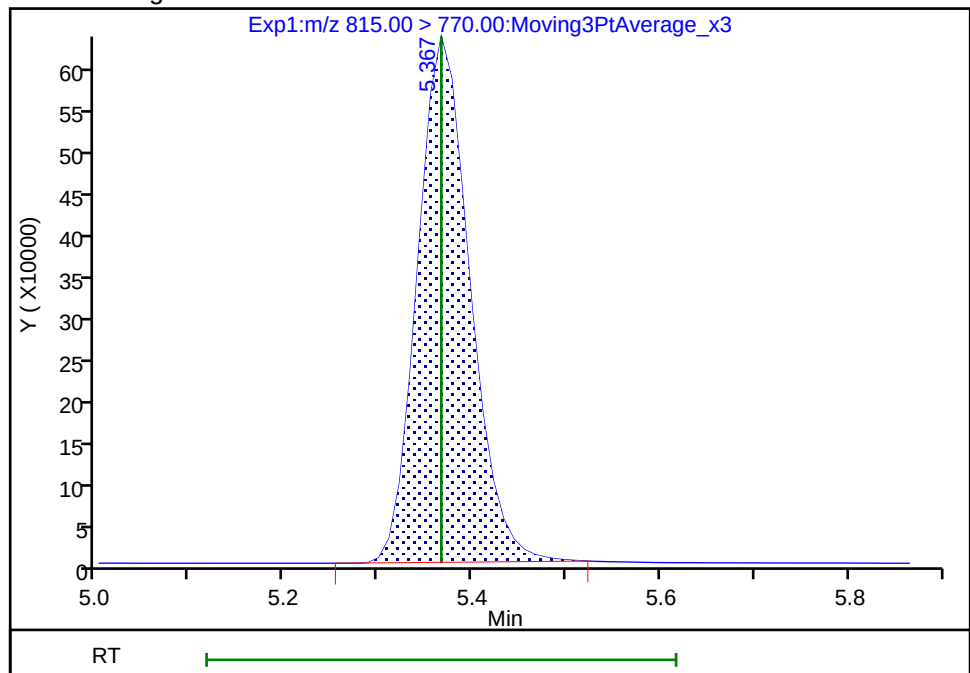
RT: 5.37
Area: 2475462
Amount: 1.332836
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2453441
Amount: 1.320980
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 200-187189/2-A

Matrix: Solid Lab File ID: PA230105A12.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.00 (g) Date Analyzed: 01/05/2023 16:19

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.: 187284 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.904		0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.896		0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	1.935		0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.869		0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	1.959		0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	1.918		0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	1.912		0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.871		0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	1.903		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.793		0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.790		0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.658		0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.703		0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.823		0.20	0.023
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.604		0.20	0.019
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.696		0.20	0.11
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.857		0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.028		2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.950	J	2.00	0.083
27619-97-2	6:2 FTS	1.983	J	2.00	0.057
39108-34-4	8:2 FTS	2.062		2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187189/2-A
 Matrix: Solid Lab File ID: PA230105A12.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24
 Sample wt/vol: 5.00 (g) Date Analyzed: 01/05/2023 16:19
 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.: 187284 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	88		50-150
STL00990	13C4 PFOA	87		50-150
STL00995	13C5 PFNA	92		50-150
STL00992	13C4 PFBA	80		50-150
STL00993	13C2 PFHxA	84		50-150
STL00996	13C2 PFDA	96		50-150
STL00997	13C2 PFUnA	91		50-150
STL00994	18O2 PFHxS	86		50-150
STL00998	13C2 PFDoA	78		50-150
STL00991	13C4 PFOS	86		50-150
STL01056	13C8 FOSA	85		50-150
STL01893	13C5 PFPeA	79		50-150
STL02116	13C2 PFTeDA	75		50-150
STL02118	d3-NMeFOSAA	89		50-150
STL02117	d5-NEtFOSAA	82		50-150
STL02279	M2-6:2 FTS	99		50-150
STL02337	13C3 PFBS	82		50-150
STL02280	M2-8:2 FTS	96		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
 Lims ID: LCS 200-187189/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Jan-2023 16:19:21 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-187189/2-A
 Misc. Info.: 200-0053906-012 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:18:35 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 12:59:39

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	2.085	2.076	0.009	0.606	2580918	1.00		79.8	8466	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.000	2027152	0.9521		95.2	169	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.694	1942029	0.9860		78.9	3151	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	1604999	0.9479		94.8	35.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.698	2042319	0.9544		82.1	122271	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	1666079	0.8289	Target=2.09	93.8	1733	
298.90 > 99.00	2.400	2.400	0.0	1.000	781400		2.13(1.04-3.13)		335	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	474095	0.9237		98.9	3036	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.782	194508	1.03		88.1	153	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.725	2.725	0.0	0.792	2172243	1.05		84.2	5253	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1831962	0.9675	Target=14.25	96.7	268	M
313.00 > 119.00	2.725	2.725	0.0	1.000	130557		14.03(7.12-21.37)		150	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.725	2.737	-0.012	0.883	1530126	0.8586	Target=3.04	91.5	1479	
349.00 > 99.00	2.725	2.737	-0.012	0.883	540207		2.83(1.52-4.56)		1026	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	313107	0.9268		92.7	2774	

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	2.835	0.0	0.824	399952	1.10		87.8	1180	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.898	1578076	1.01		85.6	4185	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.087	3.088	-0.001	1.000	1282340	0.8514	Target=3.66	93.6	1570	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	377574		3.40(1.83-5.49)		422	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.898	2337509	1.10		88.1	5070	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.087	3.099	-0.012	1.000	1902223	0.9343	Target=3.97	93.4	353	
363.00 > 169.00	3.087	3.099	-0.012	1.000	492931		3.86(1.98-5.95)		818	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.834	4608886	0.9242	Target=3.16	98.1	3710	
377.00 > 85.00	3.132	3.132	0.0	0.834	1455770		3.17(1.58-4.73)		2052	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.997	306045	1.17		98.6	834	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.000	546168	0.99		105	666	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.914	1153108	0.9117	Target=5.14	95.8	1766	M
449.00 > 99.00	3.430	3.439	-0.009	0.914	230833		5.00(2.57-7.72)		742	M
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.448	-0.009	1.000	2606407	1.09		87.4	4461	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.448	-0.009		2881967	1.25			4455	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.447	3.448	-0.001	1.003	2183840	0.9797	Target=2.79	98.0	141	M
413.00 > 169.00	3.439	3.448	-0.009	1.000	757428		2.88(1.40-4.19)		847	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.092	1082175	1.02		85.6	2429	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.764	-0.010	1.000	933699	0.8478	Target=5.11	91.4	1037	M
499.00 > 99.00	3.754	3.764	-0.010	1.000	206174		4.53(2.55-7.66)		536	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.783	-0.010	1.000	2112142	0.9591	Target=8.55	95.9	443	
463.00 > 169.00	3.773	3.783	-0.010	1.000	248174		8.51(4.28-12.83)		1612	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.097	2653530	1.14		91.5	6810	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.915	3.928	-0.013	1.043	2332402	0.9228		99.0	2287	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.079	737525	0.8873	Target=2.53	92.4	1924	
549.00 > 99.00	4.041	4.050	-0.009	1.076	297876		2.48(1.27-3.80)		1315	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	2845956	1.20		96.3	4118	

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	4.081	-0.010	1.000	2360365	0.9560	Target=10.26	95.6	1069	
513.00 > 169.00	4.071	4.081	-0.010	1.000	230259		10.25(5.13-15.38)		824	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	366951	1.15		95.8	957	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.093	-0.012	1.000	510763	1.03		108	3420	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.138	4.150	-0.012	1.000	1600468	0.9286		92.9	1565	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.203	2062192	1.06		85.2	3286	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.226	532521	1.11		88.5	422	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.217	4.228	-0.011	1.000	375790	1.01		101	564	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.319	4.331	-0.012	1.151	526488	0.8022	Target=2.51	83.2	2394	
599.00 > 99.00	4.319	4.331	-0.012	1.151	198917		2.65(1.25-3.76)		1714	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	2455934	1.13		90.8	5183	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.353	-0.011	1.000	1852348	0.9355	Target=9.88	93.5	889	M
563.00 > 169.00	4.342	4.353	-0.011	1.000	183474		10.10(4.94-14.82)		911	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.353	4.365	-0.012	1.000	340030	0.9748		97.5	1141	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.266	487049	1.03		82.2	955	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.183	3031390	0.7780		82.6	4598	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.000	1730896	0.9515	Target=7.77	95.2	152	
613.00 > 169.00	4.580	4.591	-0.011	1.000	221768		7.80(3.89-11.66)		1530	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	2146274	0.9735		77.9	4066	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.591	4.612	-0.021	1.125	251234	0.8438		87.5	2534	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.267	200297	0.7213	Target=0.50	74.5	1493	
699.00 > 99.00	4.758	4.776	-0.018	1.267	373798		0.54(0.25-0.76)		2028	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.785	4.804	-0.019	1.045	1559321	0.8963	Target=5.21	89.6	162	M
663.00 > 169.00	4.785	4.804	-0.019	1.045	265241		5.88(2.60-7.81)		1085	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.982	5.012	-0.030	1.000	175153	0.8949	Target=0.89	89.5	1003	
713.00 > 219.00	4.982	5.012	-0.030	1.000	198537		0.88(0.44-1.33)		1520	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.982	5.012	-0.030	1.449	1787067	0.9372		75.0	3490	

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	5.344	5.367	-0.023	1.002	1898215	0.9305	Target=5.65	93.1	212	
813.00 > 169.00	5.333	5.367	-0.034	1.000	299374		6.34(2.82-8.47)		1378	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.333	5.367	-0.034	1.551	2723220	1.16		92.4	4379	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.686	5.722	-0.036	1.066	1828289	1.02	Target=6.24	102	194	M
913.00 > 169.00	5.677	5.722	-0.045	1.064	257769		7.09(3.12-9.36)		926	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

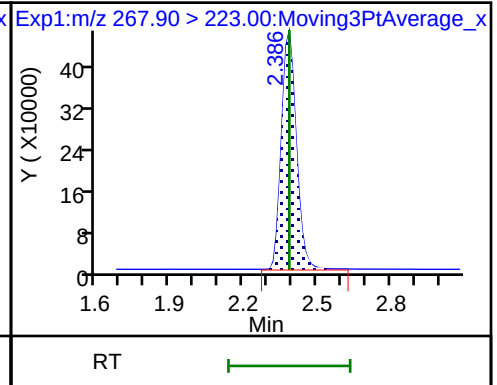
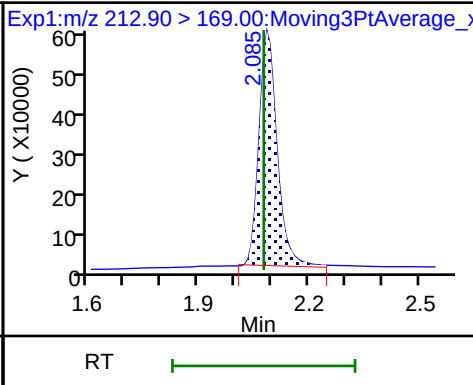
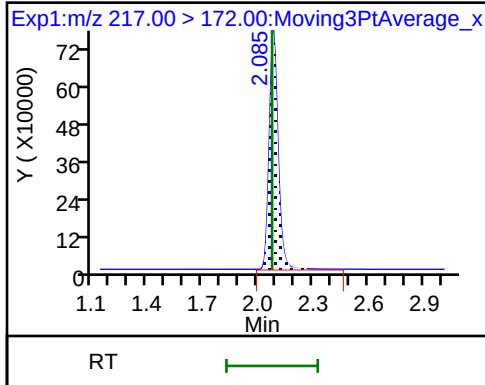
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

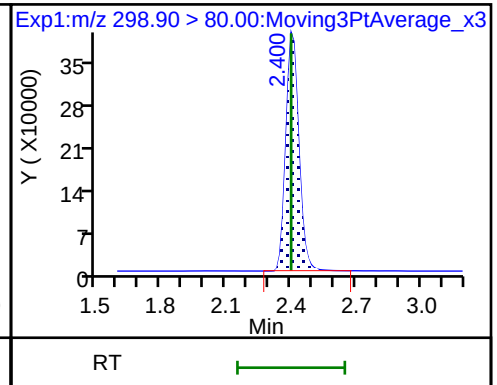
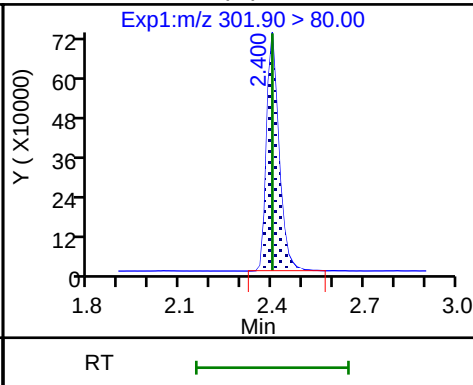
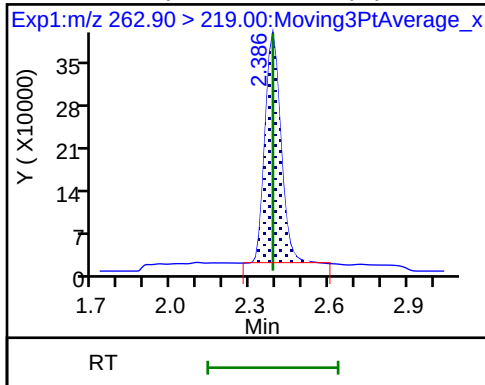
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

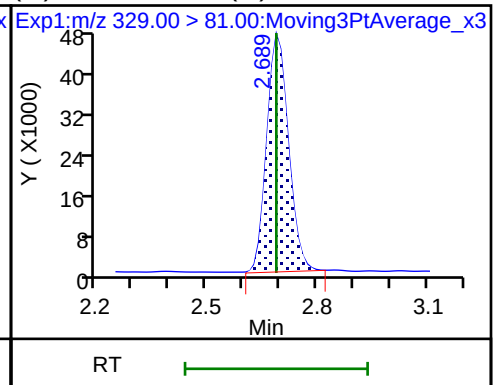
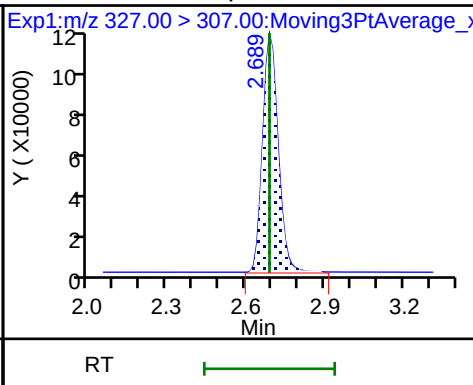
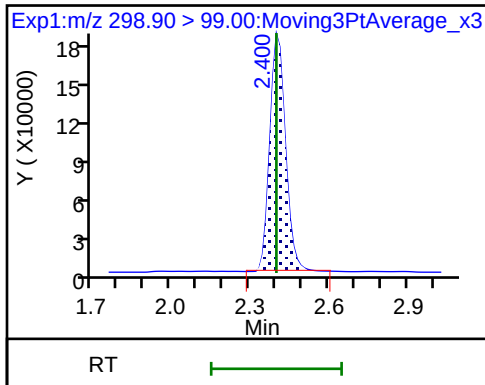
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

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

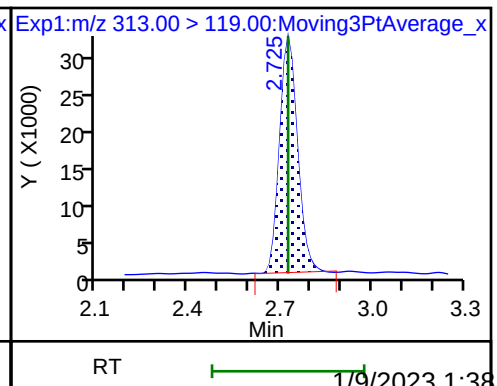
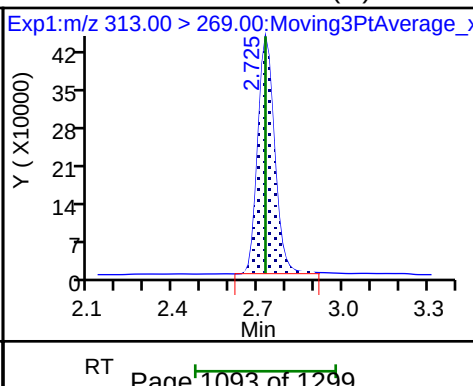
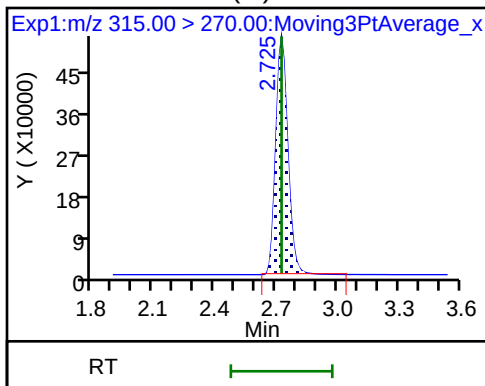
D 50 M2-4:2 FTS (M)

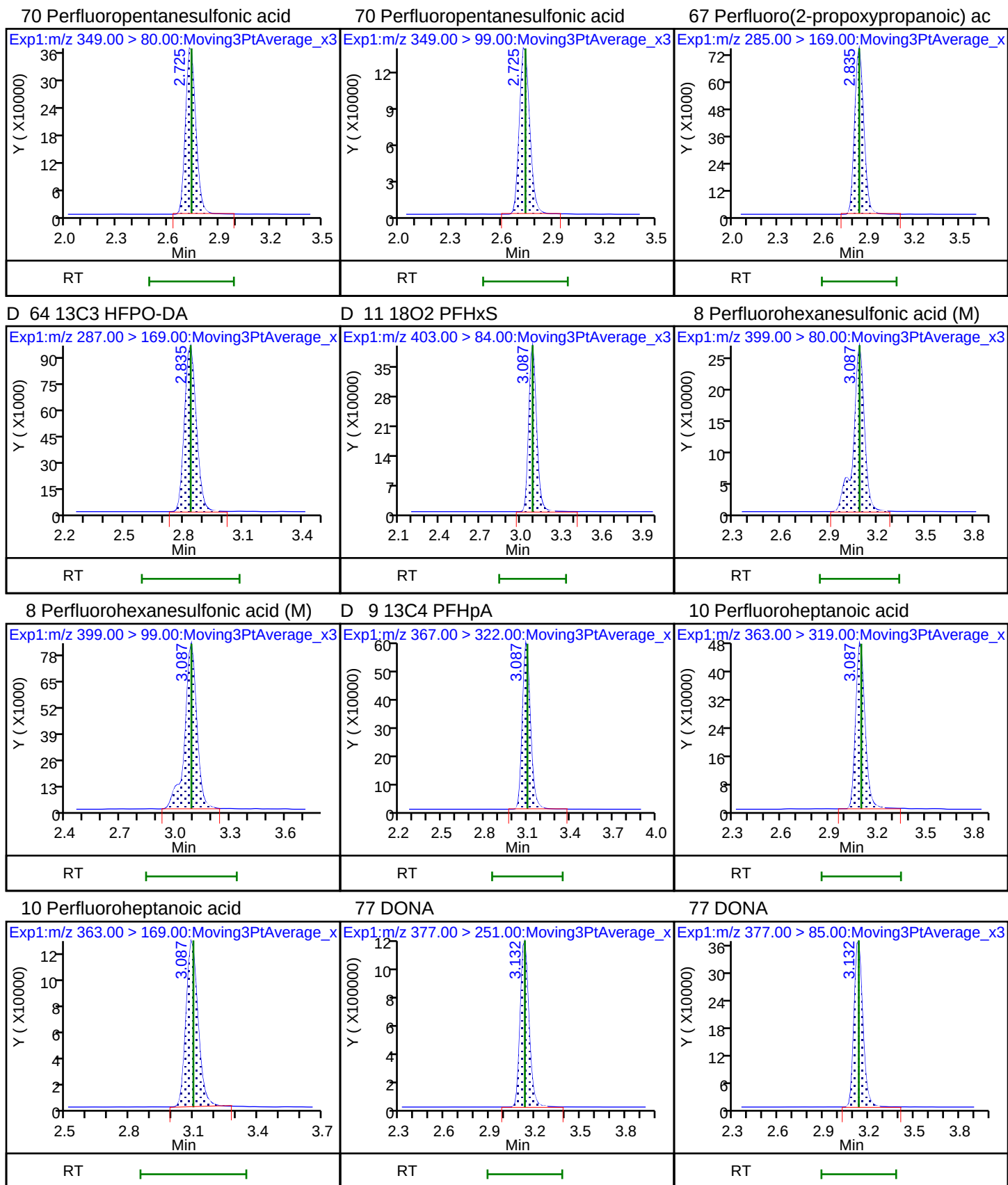


D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

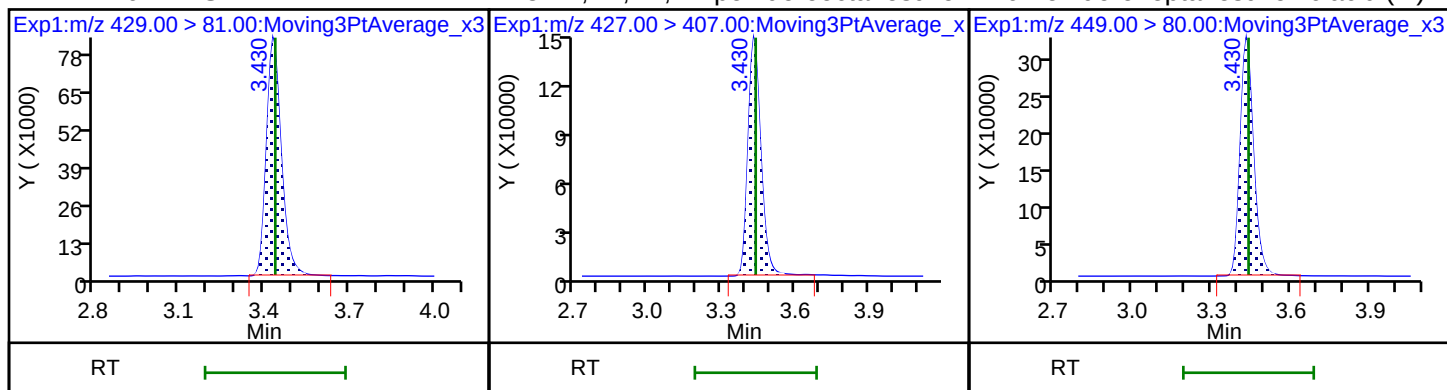




D 12 M2-6:2 FTS

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

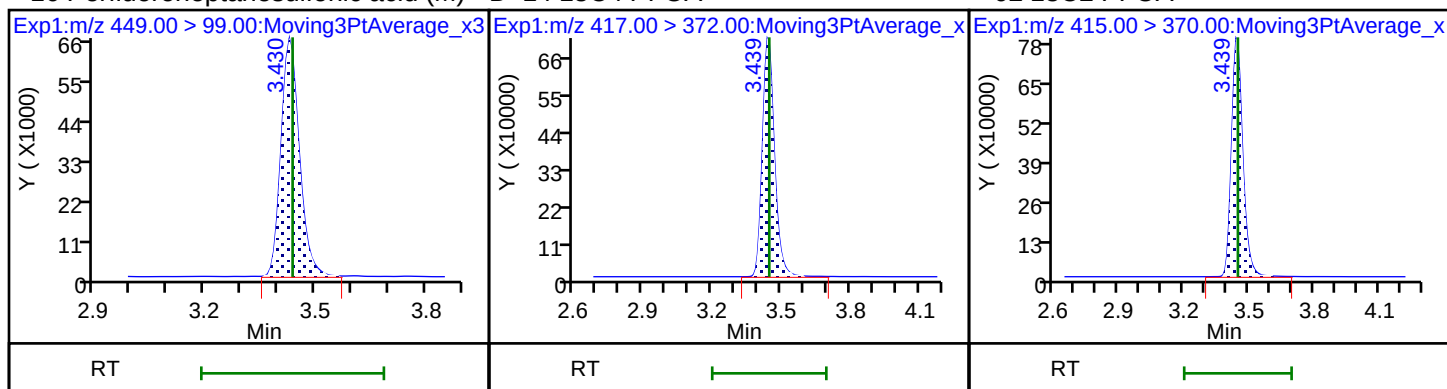
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

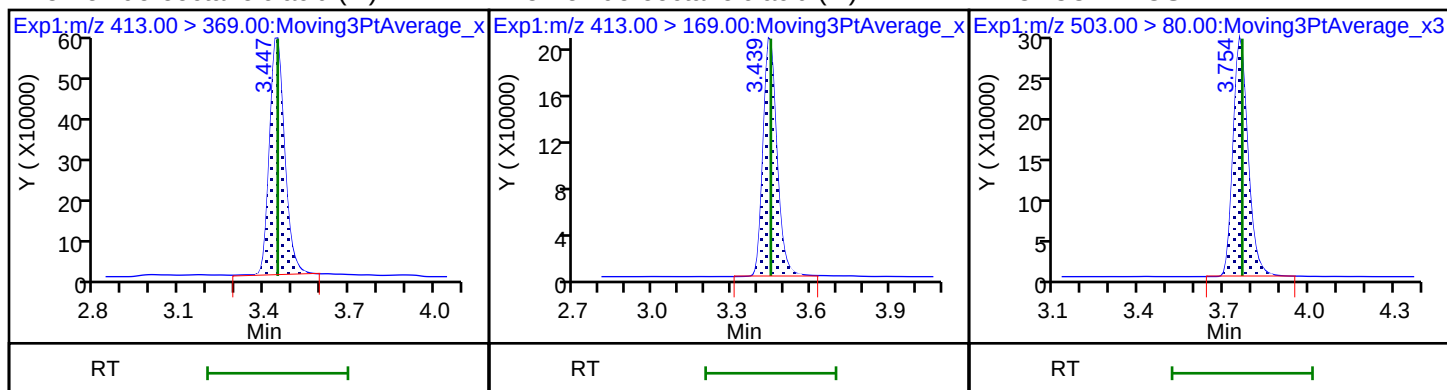
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

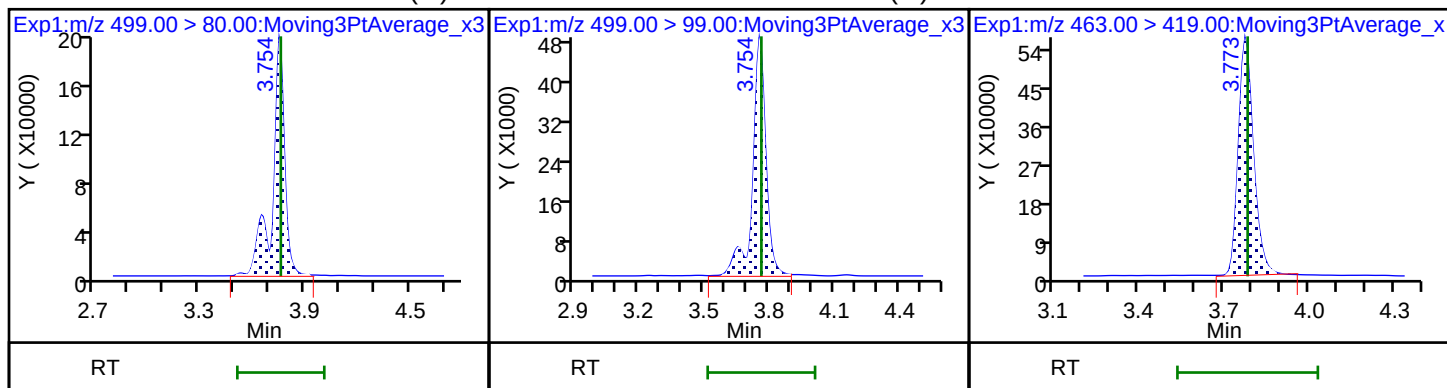
D 18 13C4 PFOS

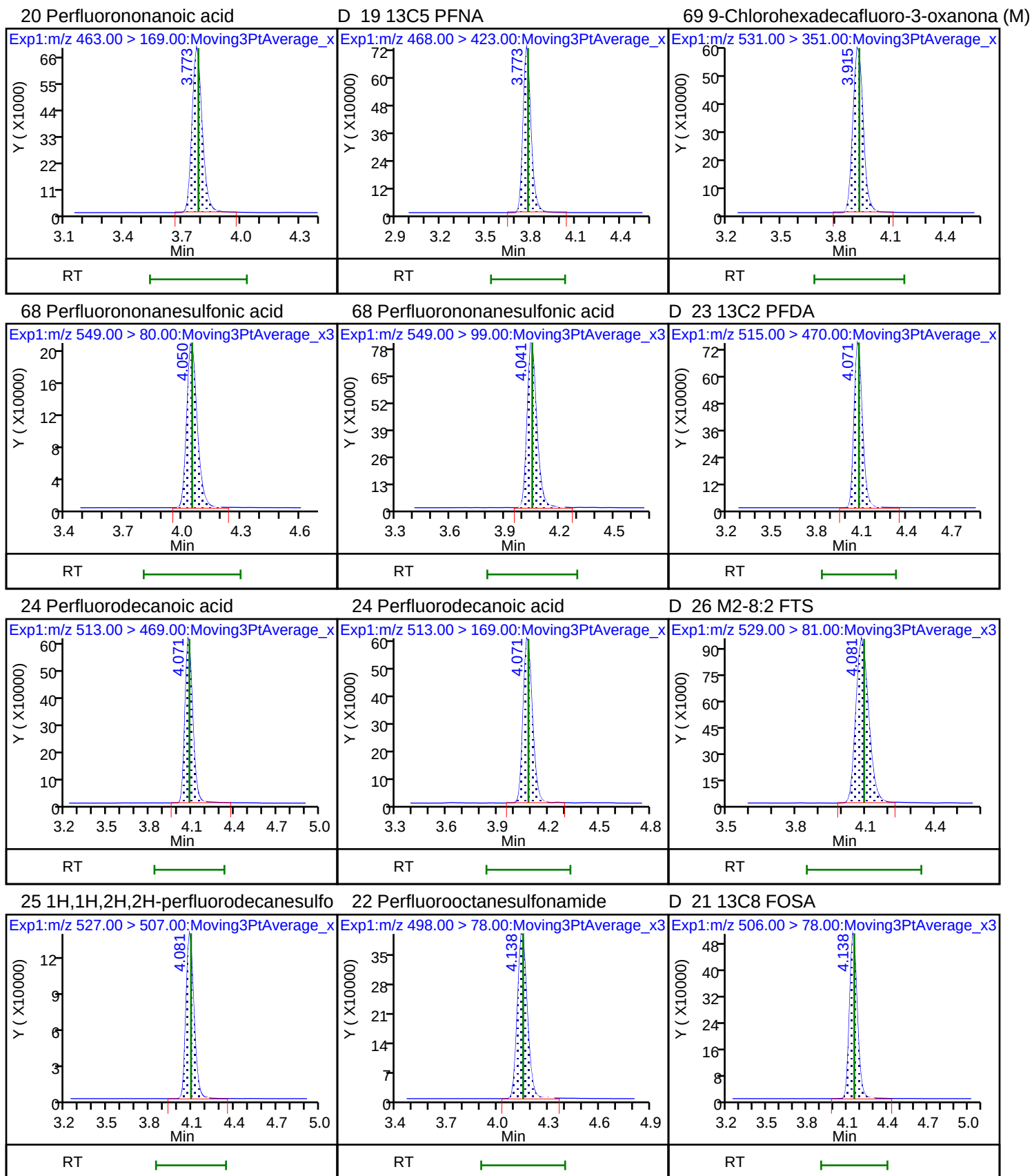


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

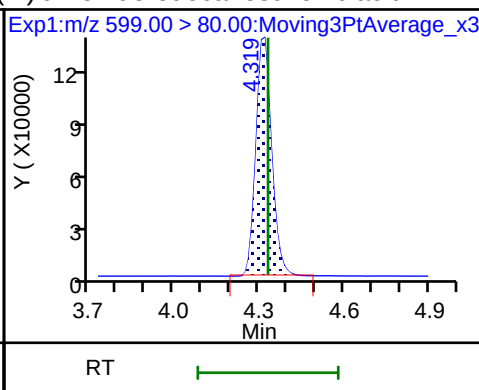
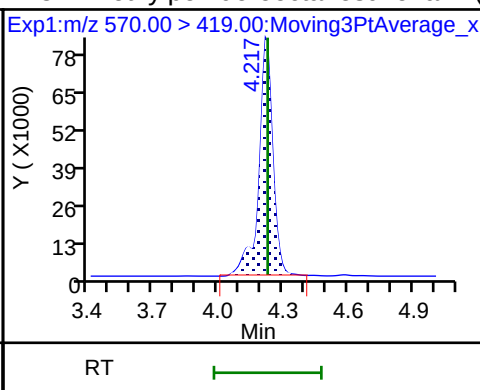
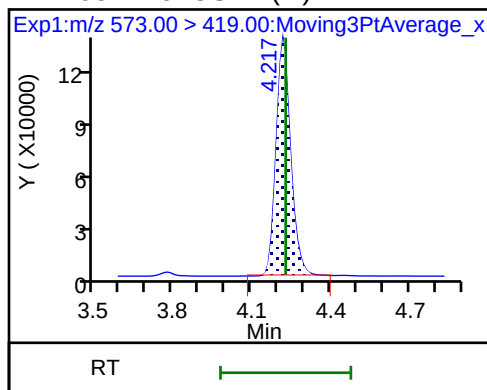




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

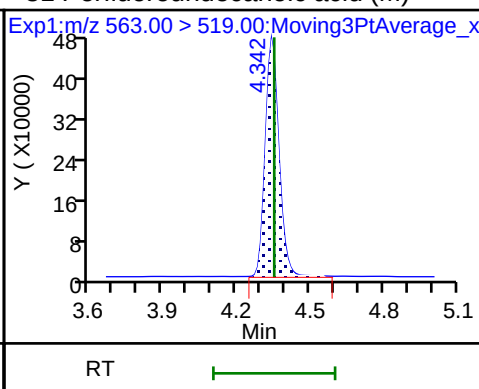
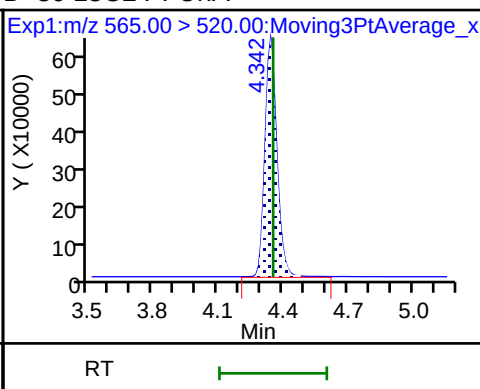
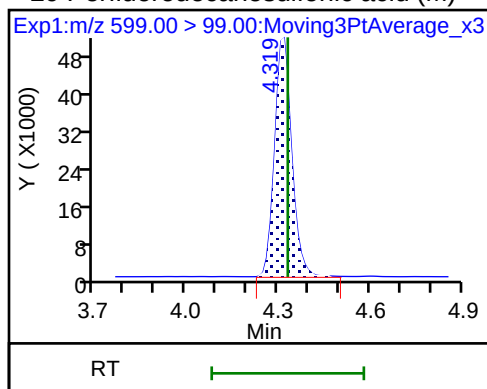
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

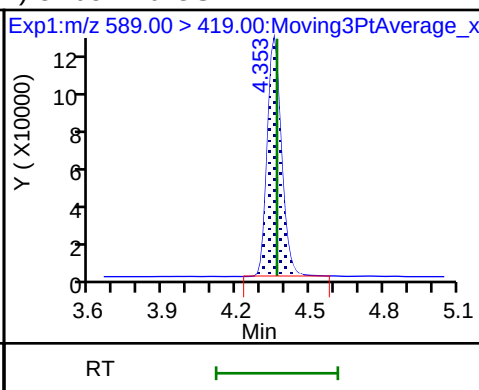
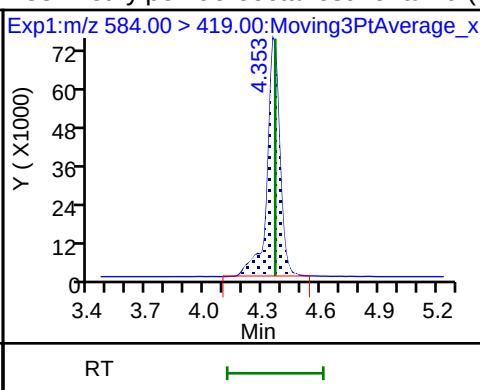
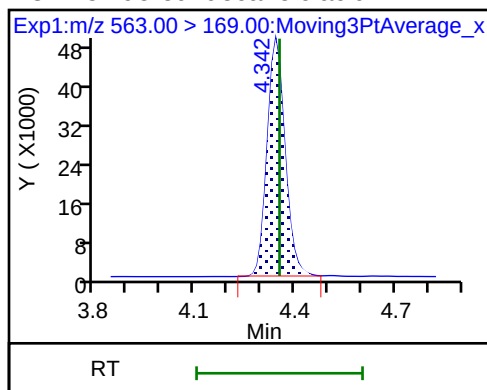
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

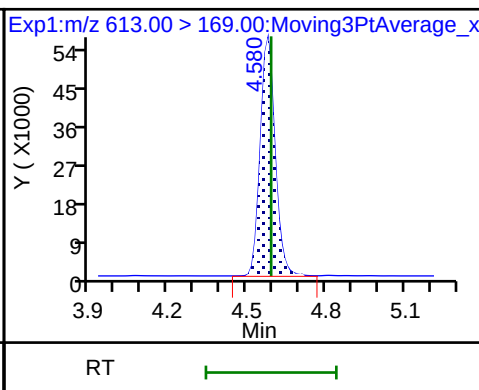
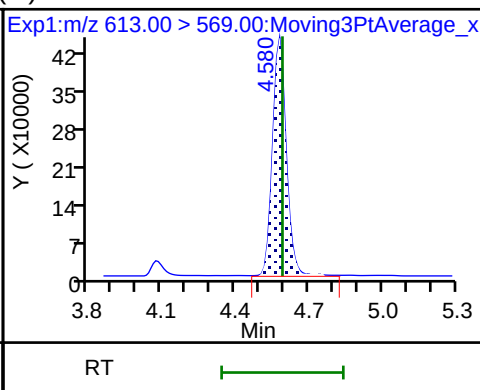
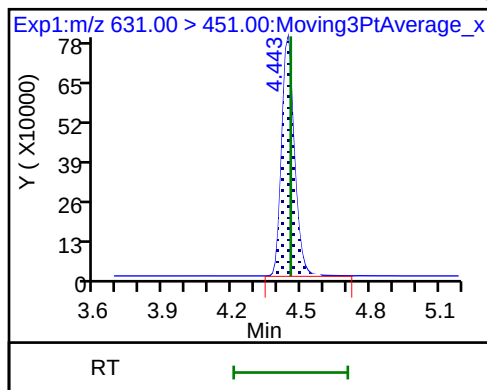
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

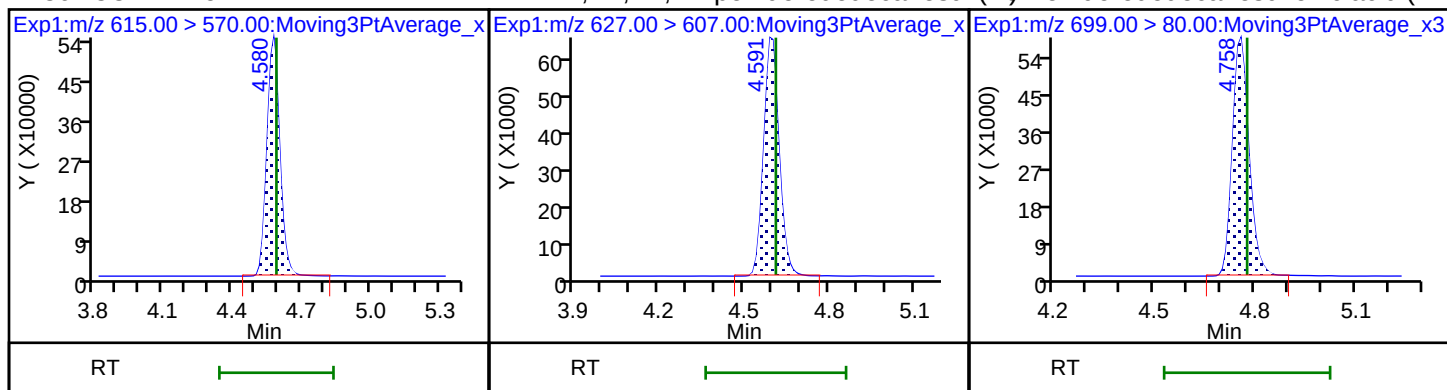
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

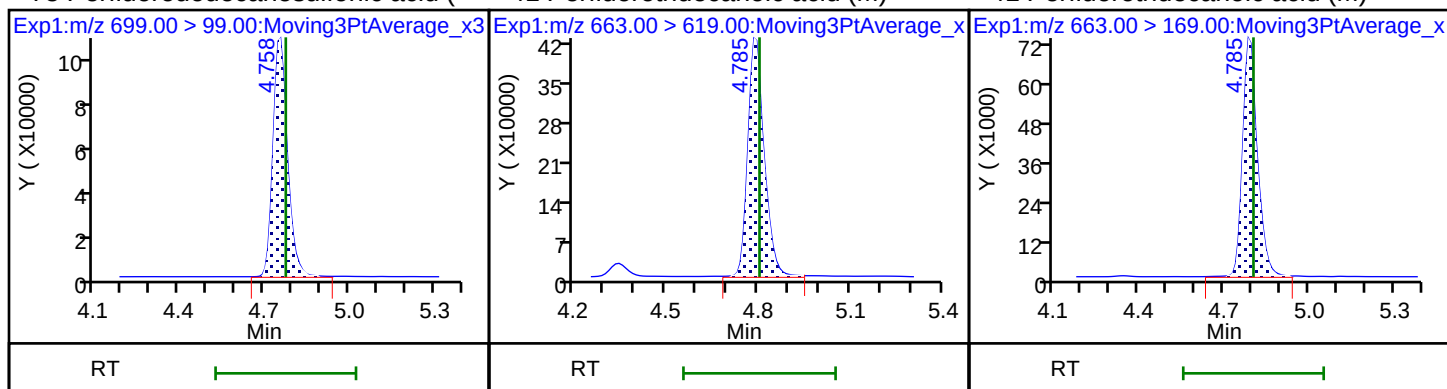
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

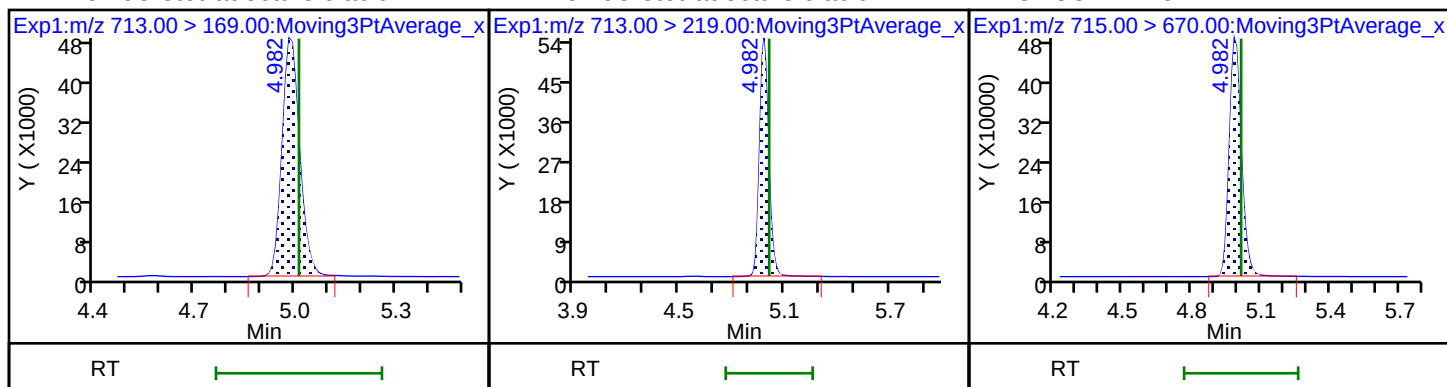
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

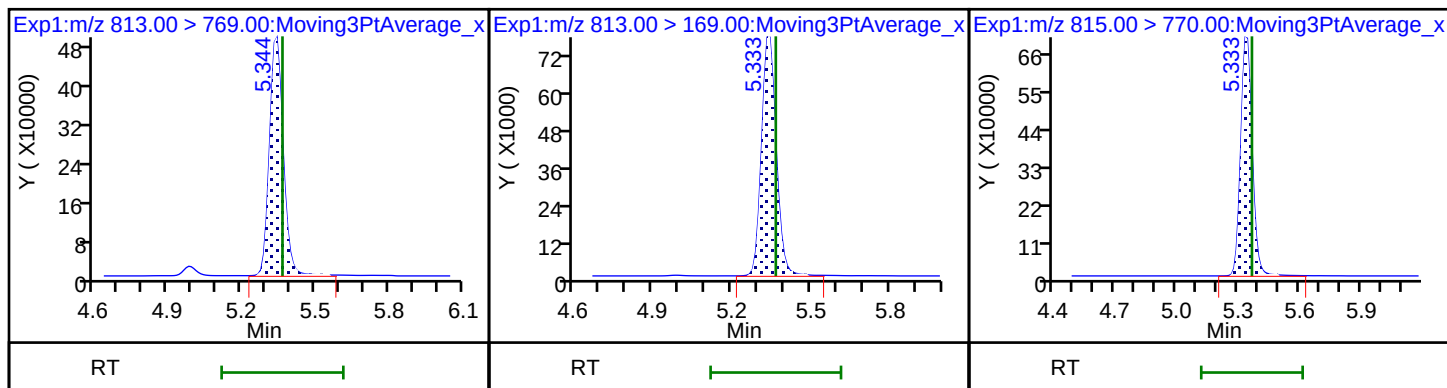
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

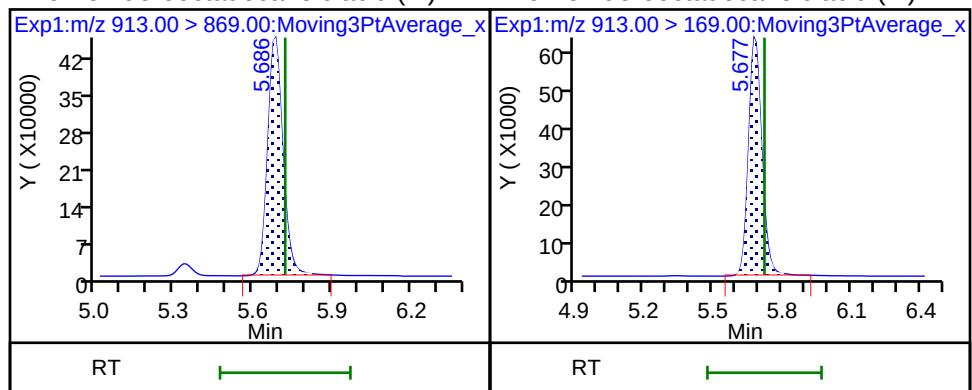
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

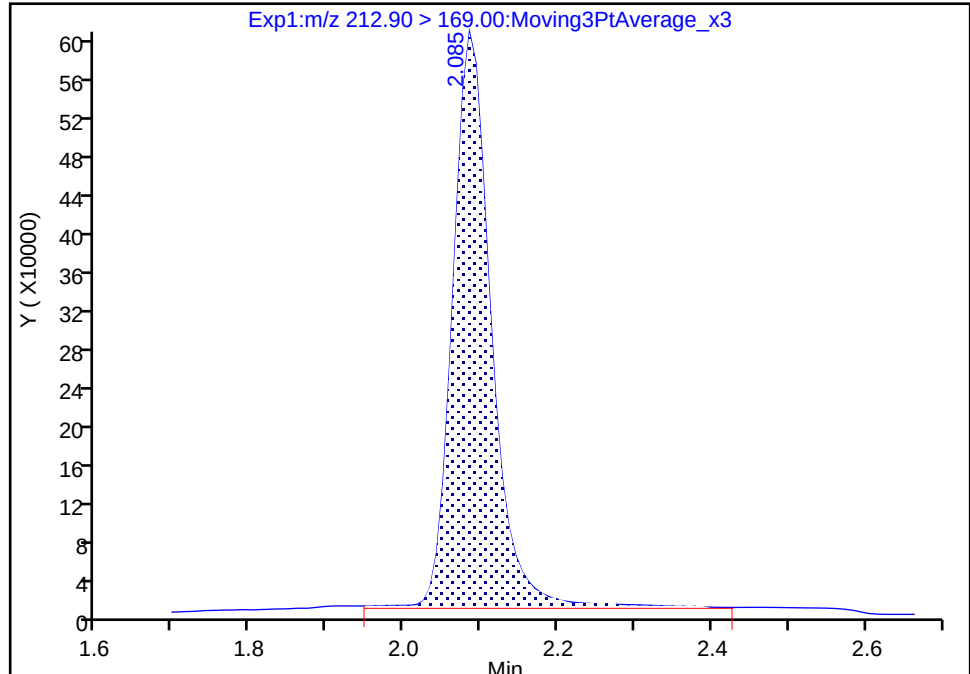
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

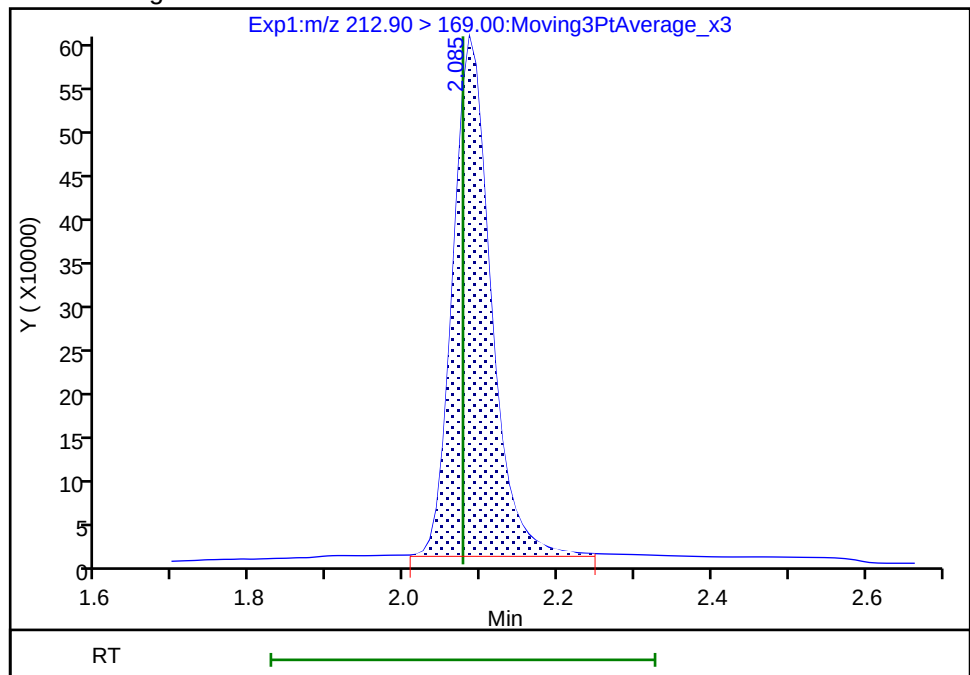
RT: 2.08
Area: 2094006
Amount: 0.983496
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2027152
Amount: 0.952096
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:56:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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

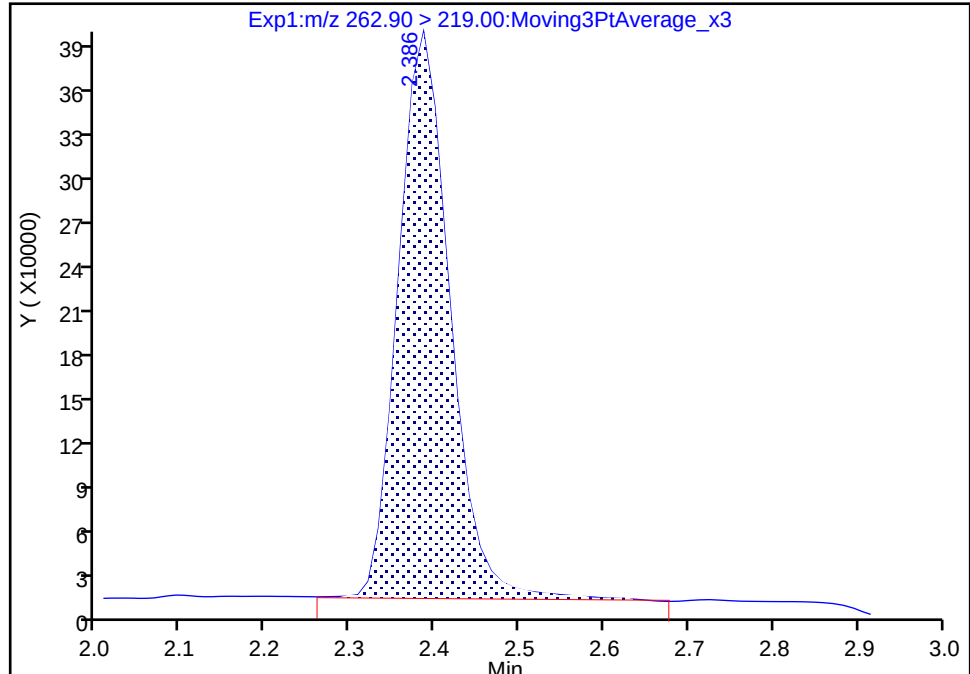
EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

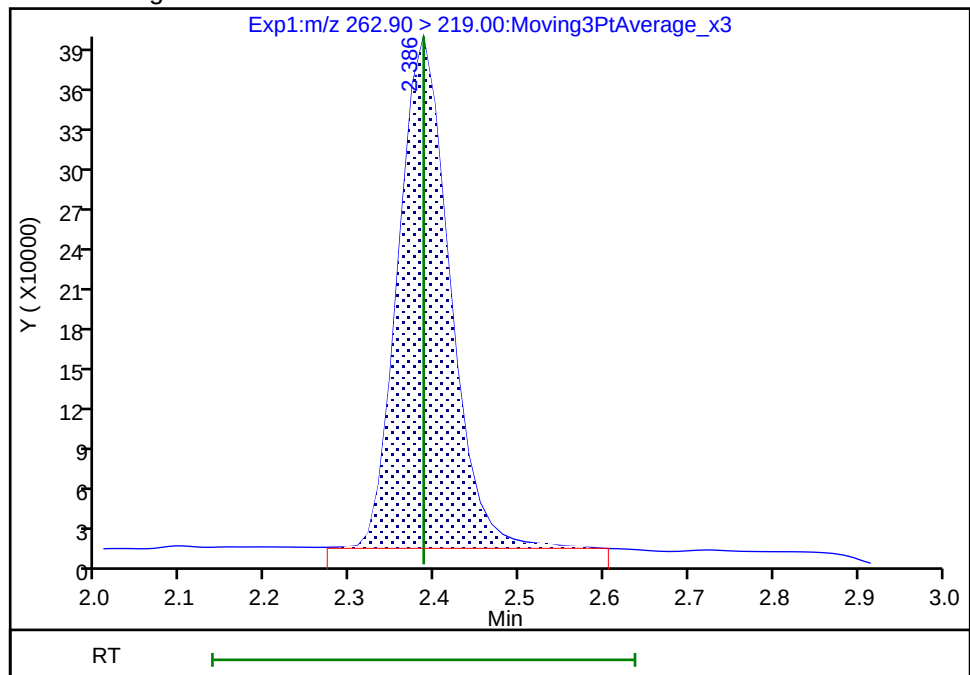
RT: 2.39
Area: 1627709
Amount: 0.961333
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1604999
Amount: 0.947921
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:56:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

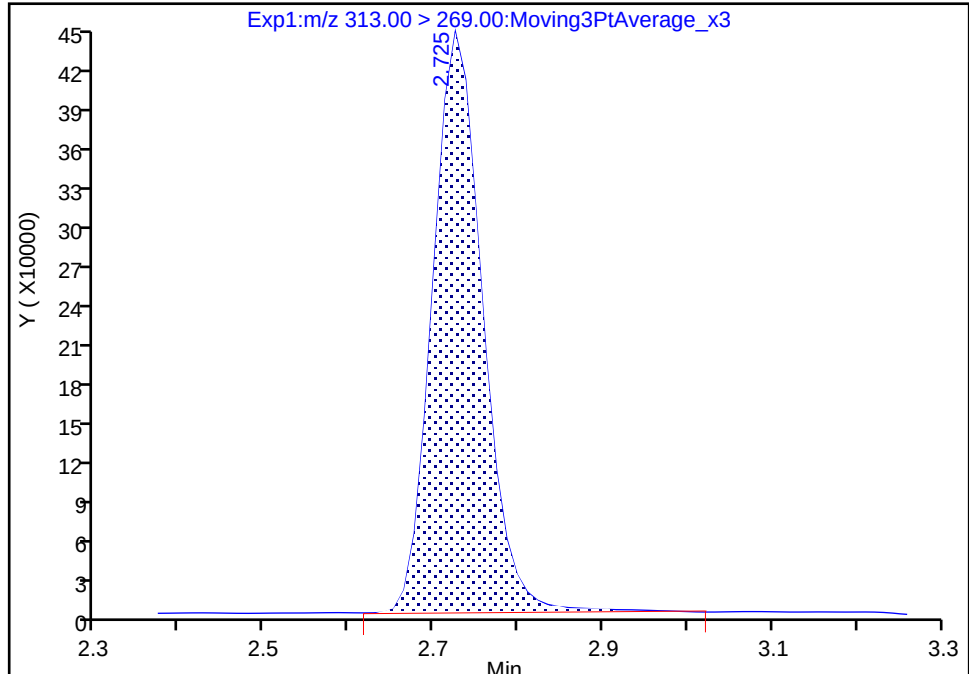
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

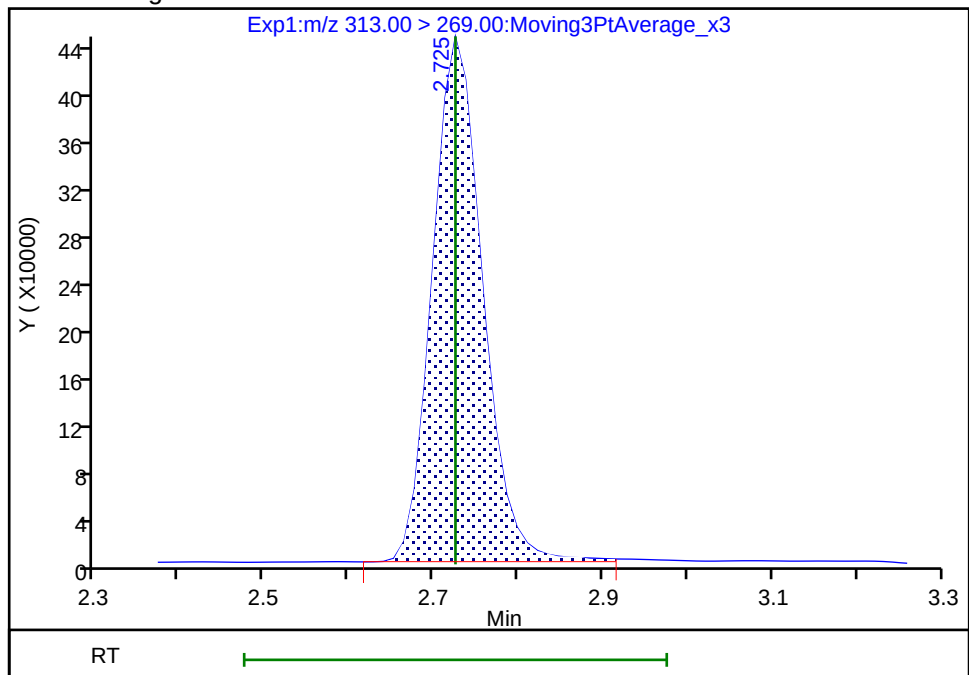
RT: 2.73
Area: 1838693
Amount: 0.971046
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1831962
Amount: 0.967491
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:57:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

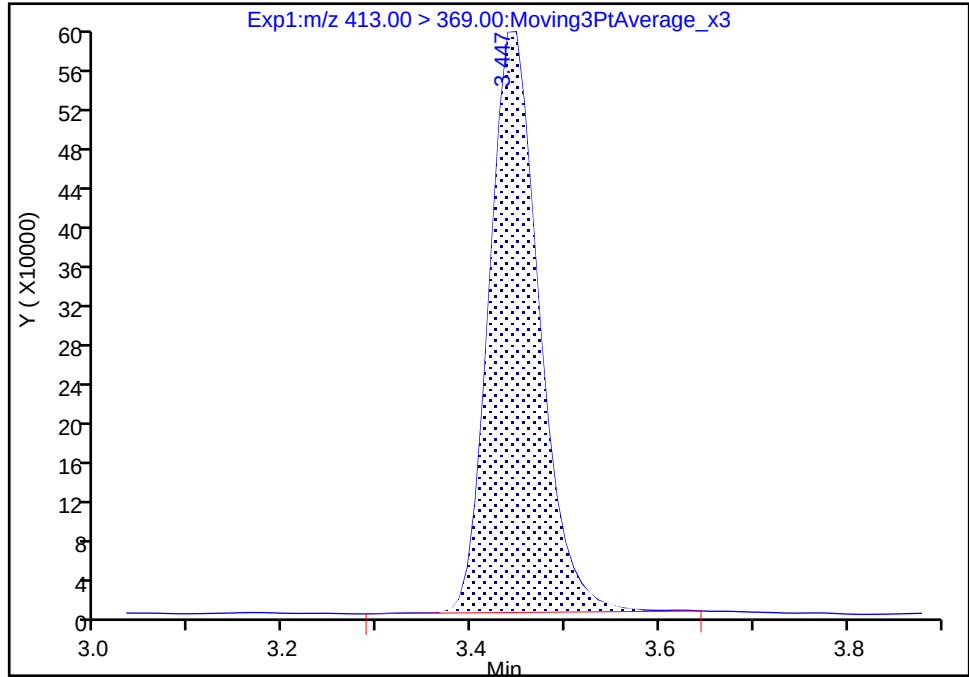
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

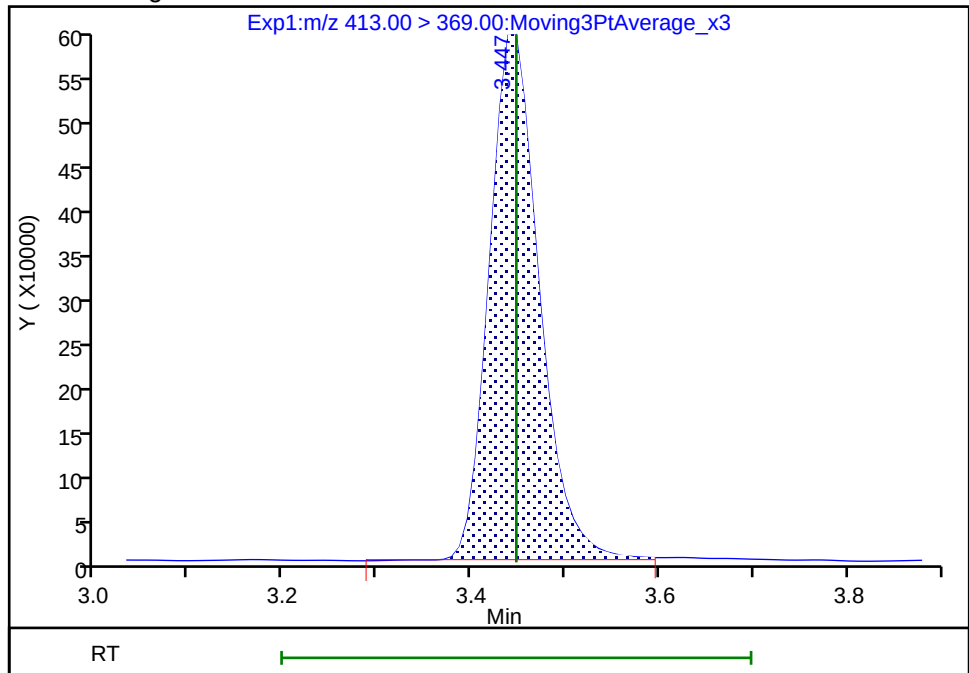
RT: 3.45
Area: 2183093
Amount: 0.979371
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 2183840
Amount: 0.979706
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:57:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

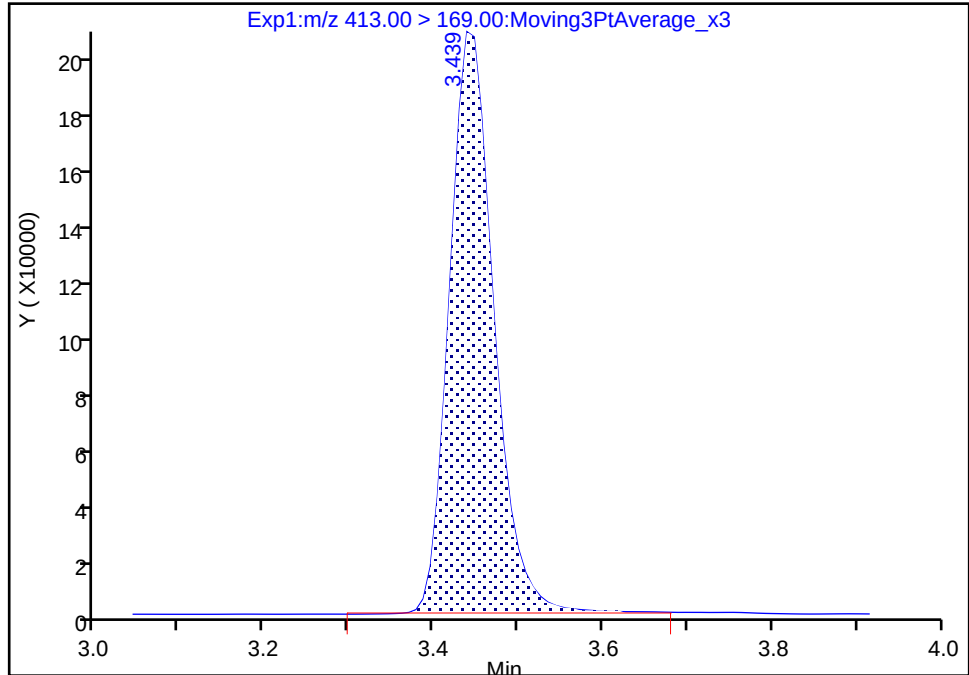
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

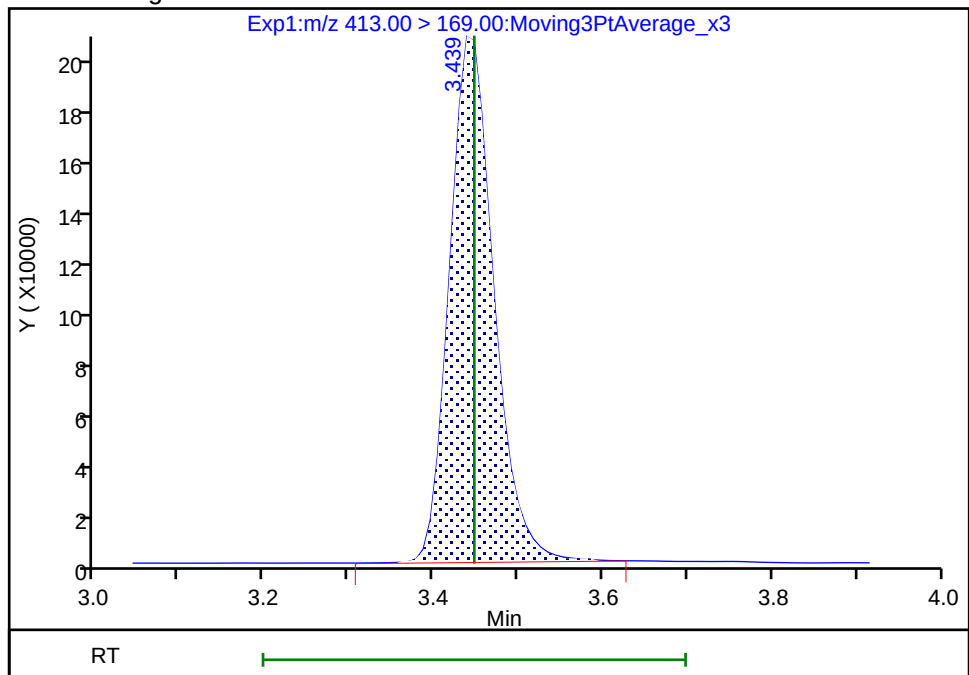
RT: 3.44
Area: 757623
Amount: 0.979371
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 757428
Amount: 0.979706
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:57:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

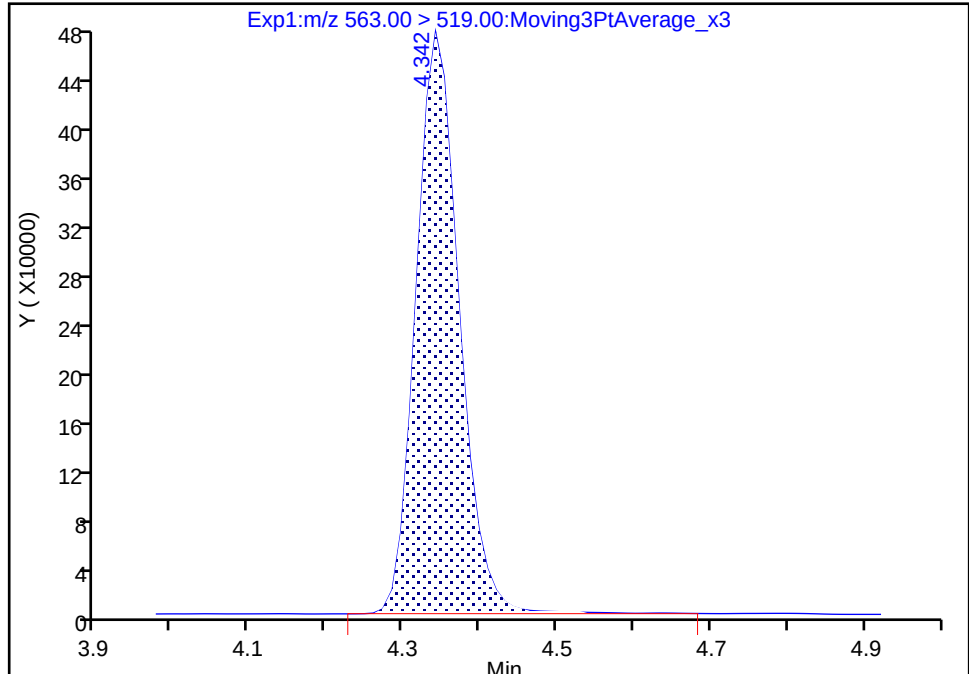
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

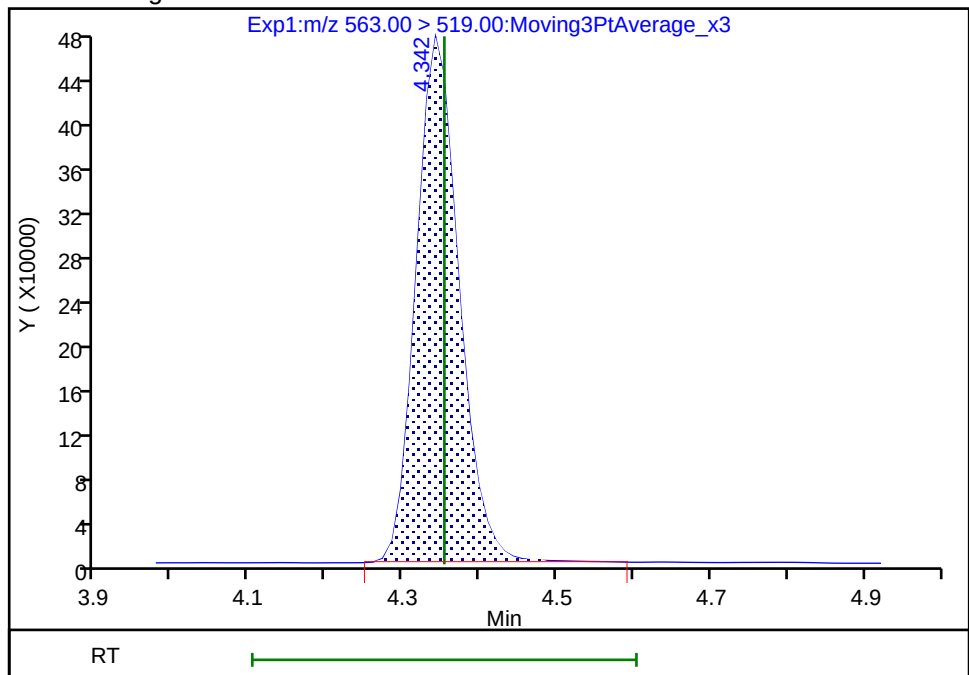
RT: 4.34
Area: 1858376
Amount: 0.938537
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 1852348
Amount: 0.935493
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:58:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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

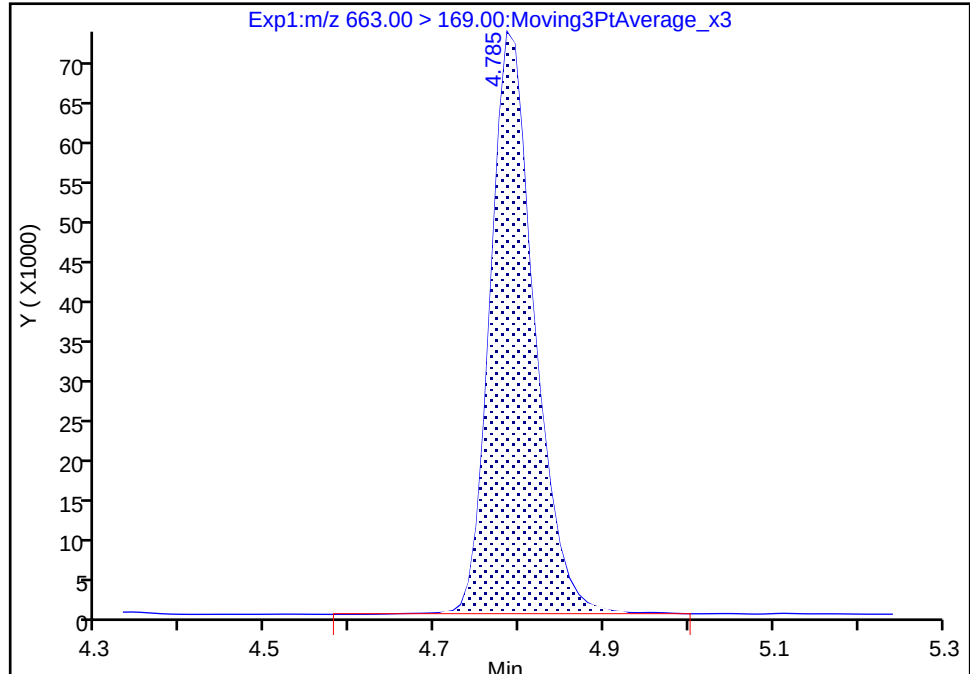
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

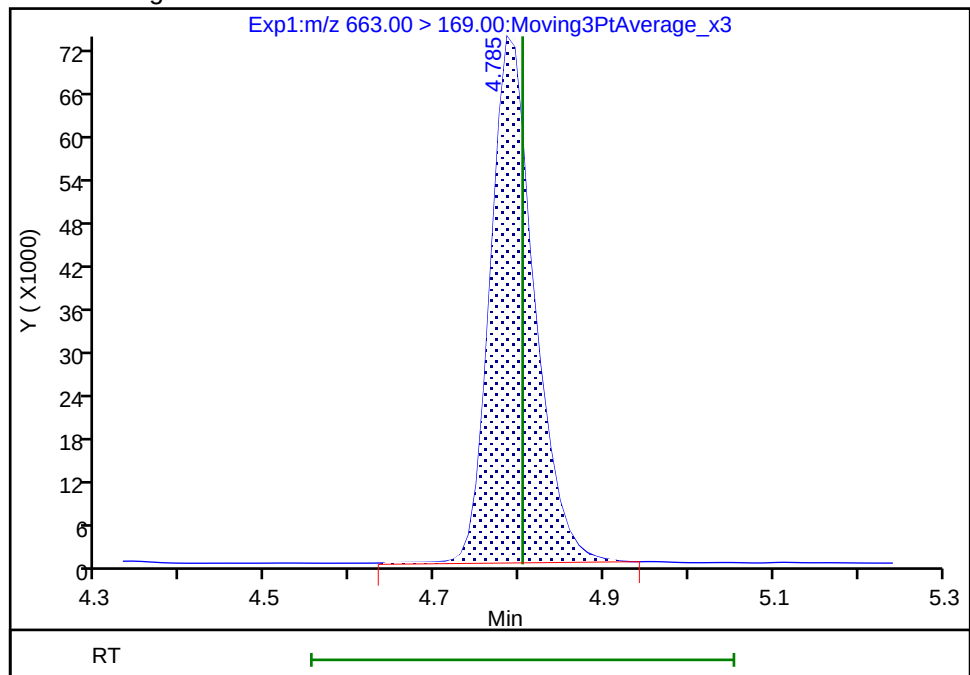
RT: 4.79
Area: 267294
Amount: 0.899224
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 265241
Amount: 0.896300
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:59:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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

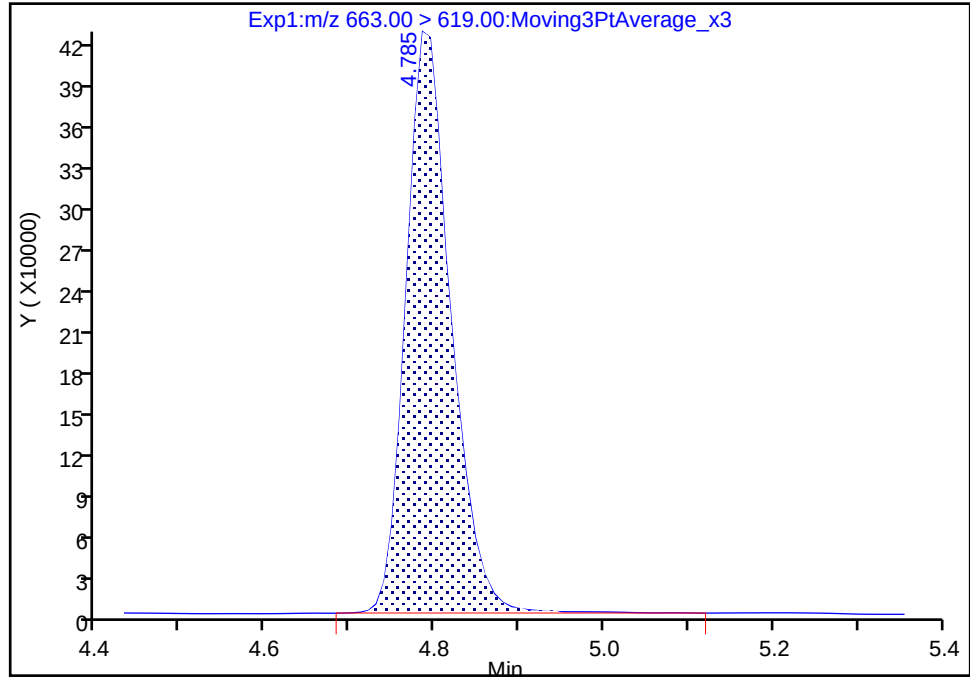
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

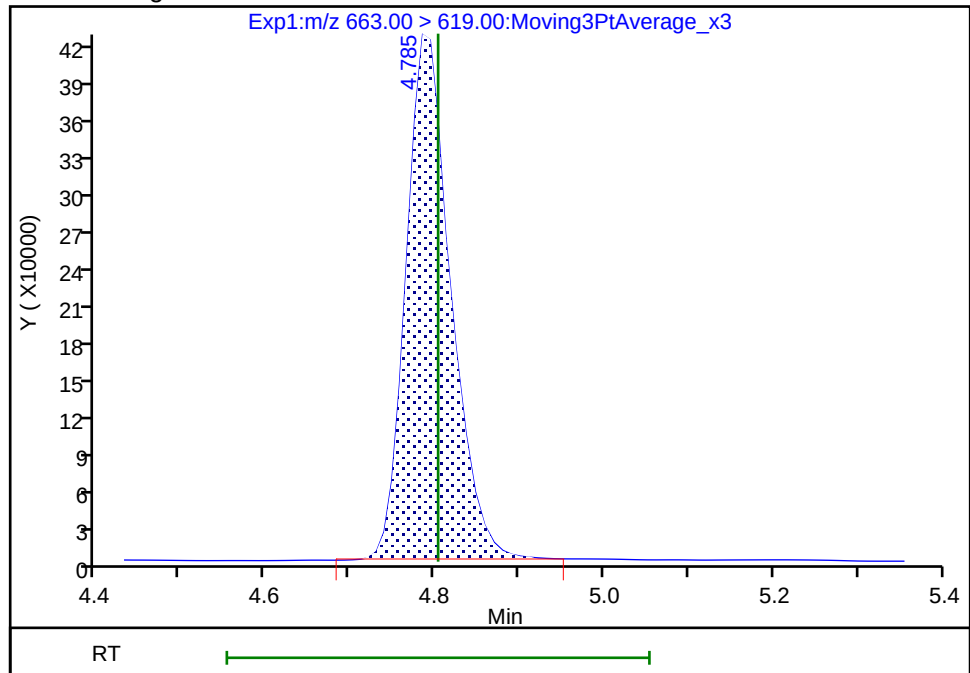
RT: 4.79
Area: 1564409
Amount: 0.899224
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 1559321
Amount: 0.896300
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:59:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

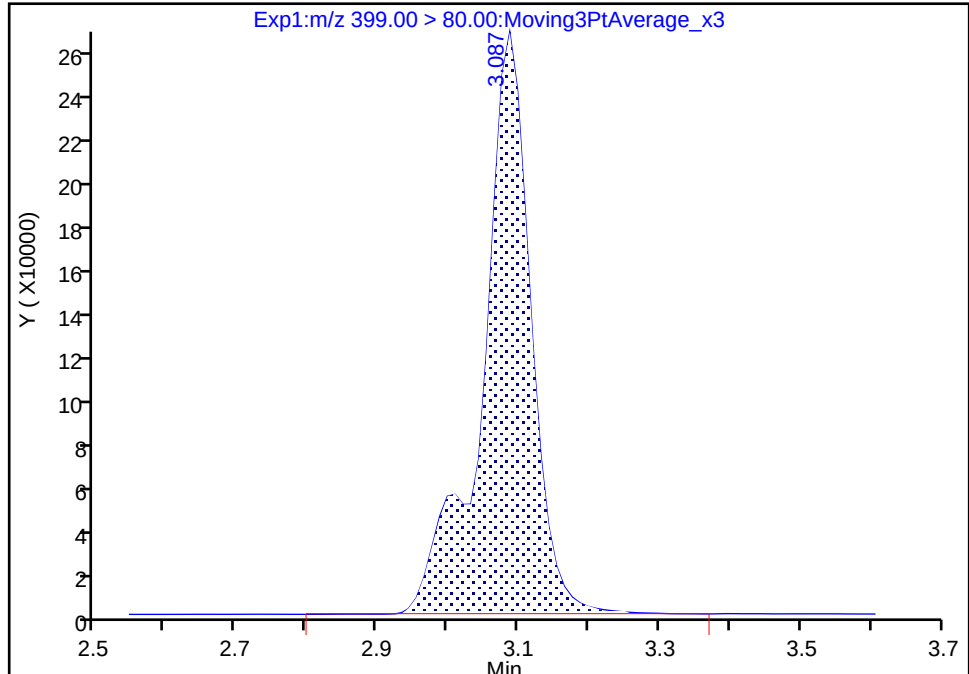
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

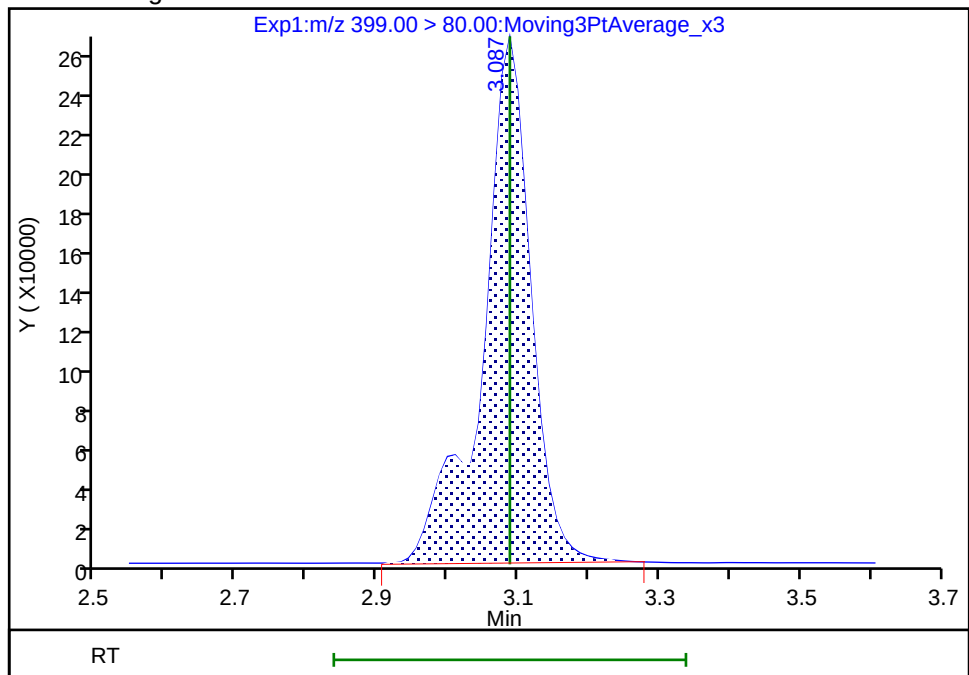
RT: 3.09
Area: 1289575
Amount: 0.856166
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1282340
Amount: 0.851362
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:57:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

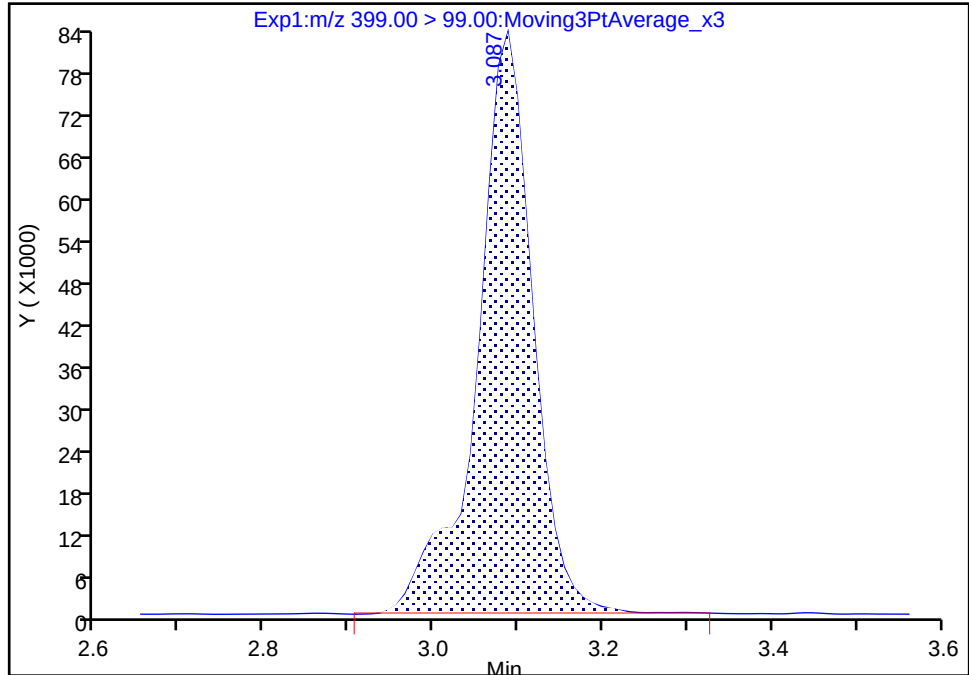
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

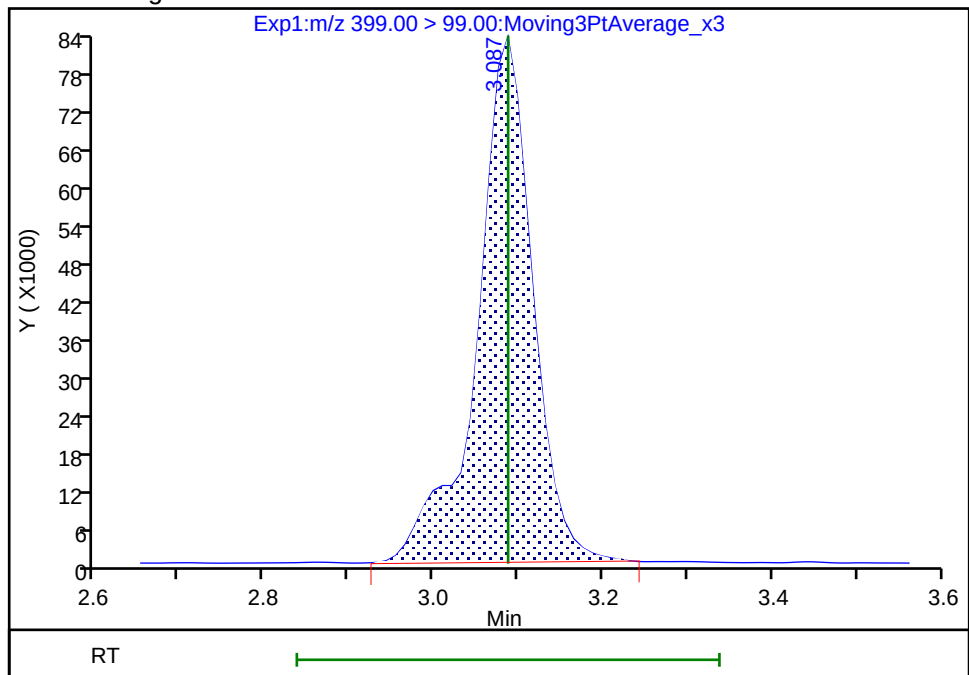
RT: 3.09
Area: 379605
Amount: 0.856166
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 377574
Amount: 0.851362
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:57:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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

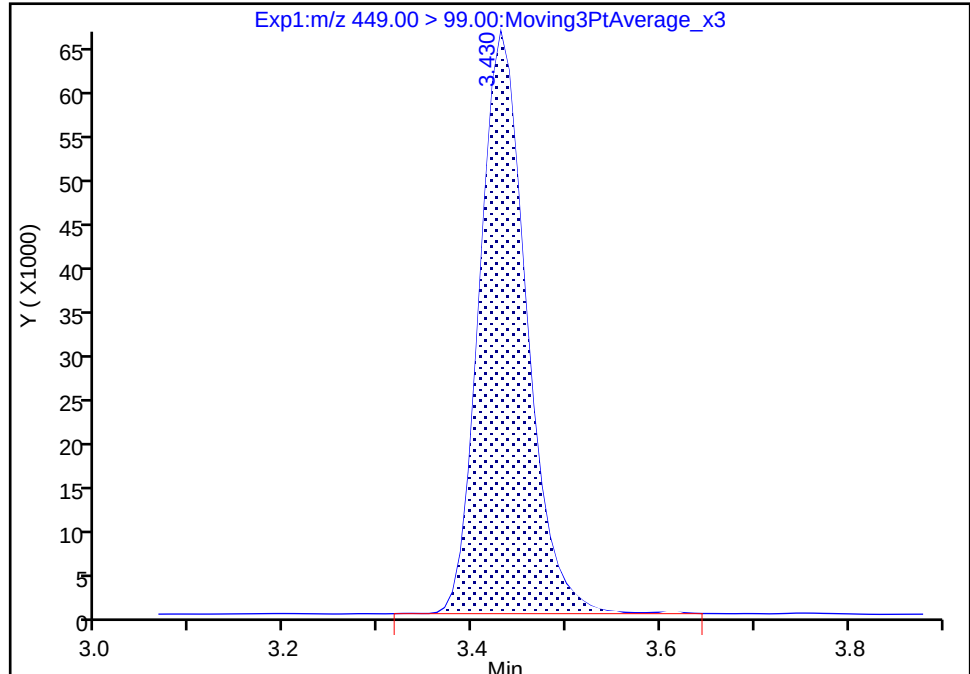
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

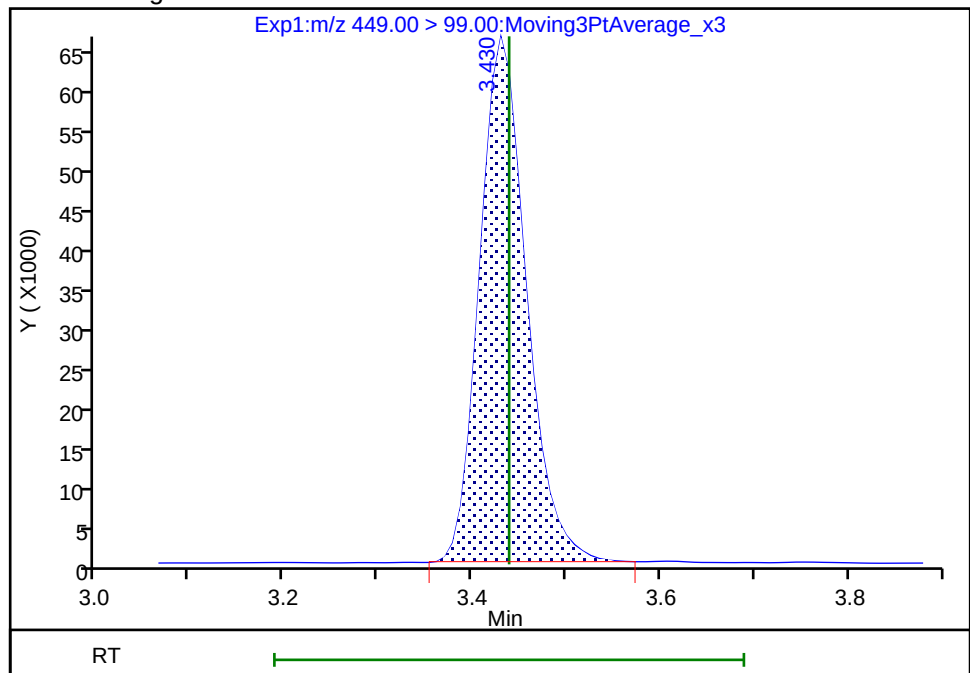
RT: 3.43
Area: 232086
Amount: 0.915561
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 230833
Amount: 0.911657
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:57:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

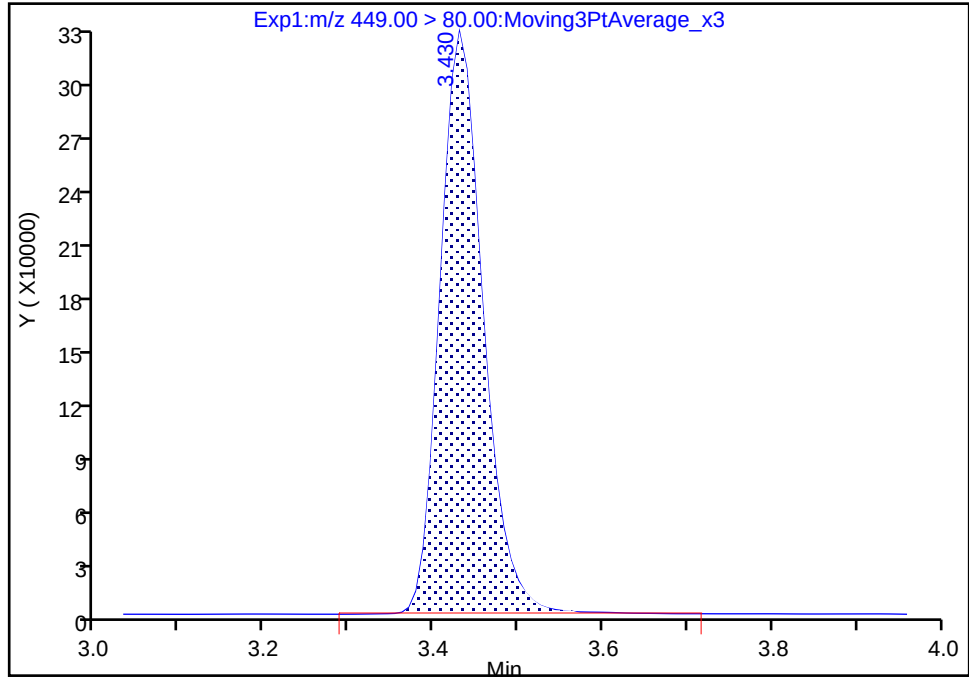
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

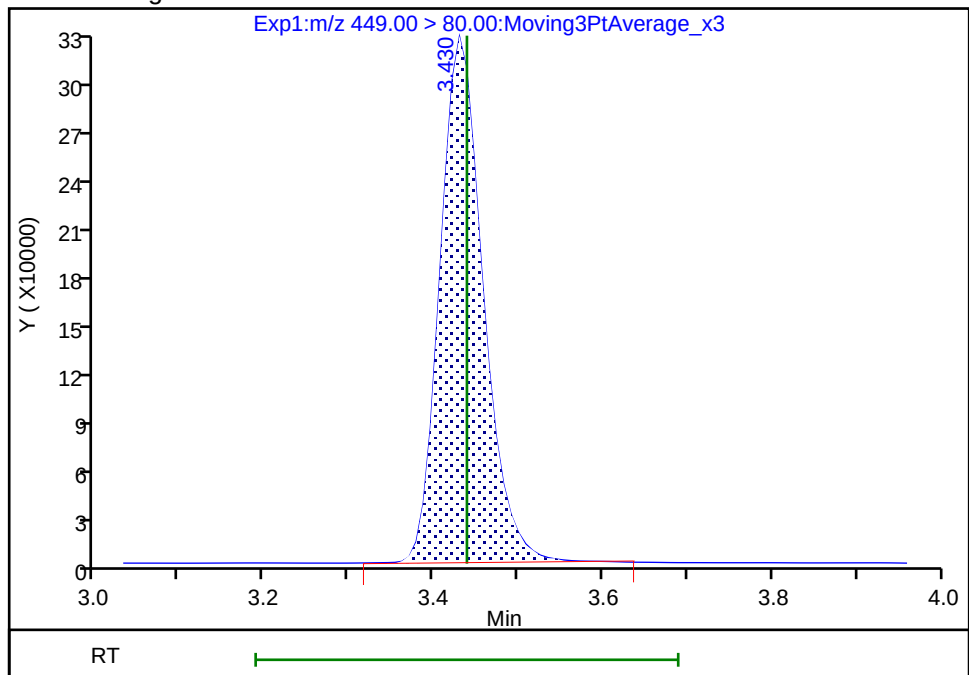
RT: 3.43
Area: 1158046
Amount: 0.915561
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1153108
Amount: 0.911657
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:57:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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)

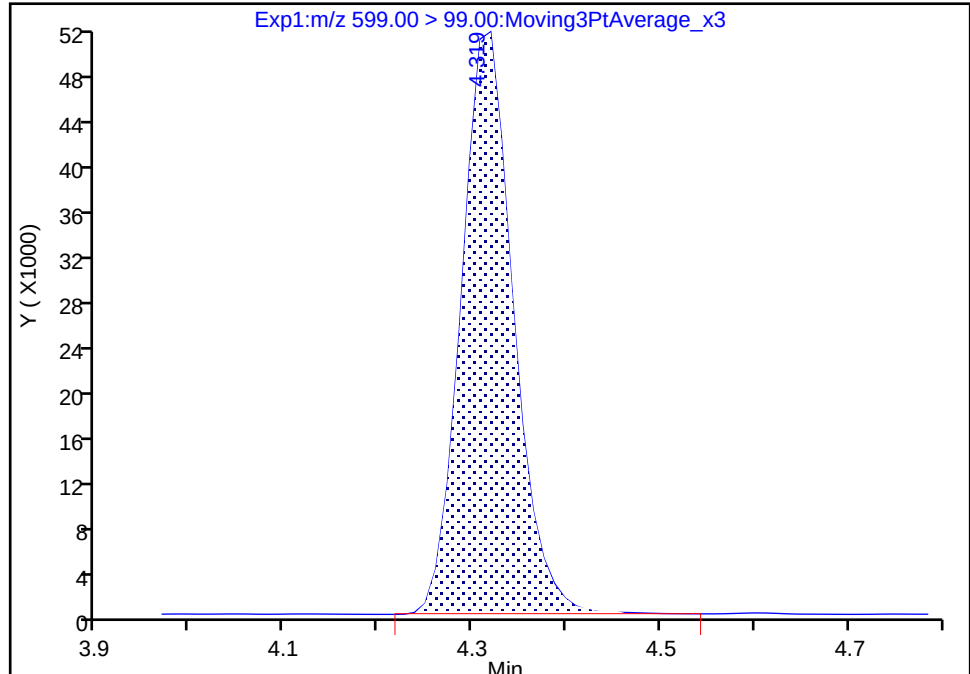
Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

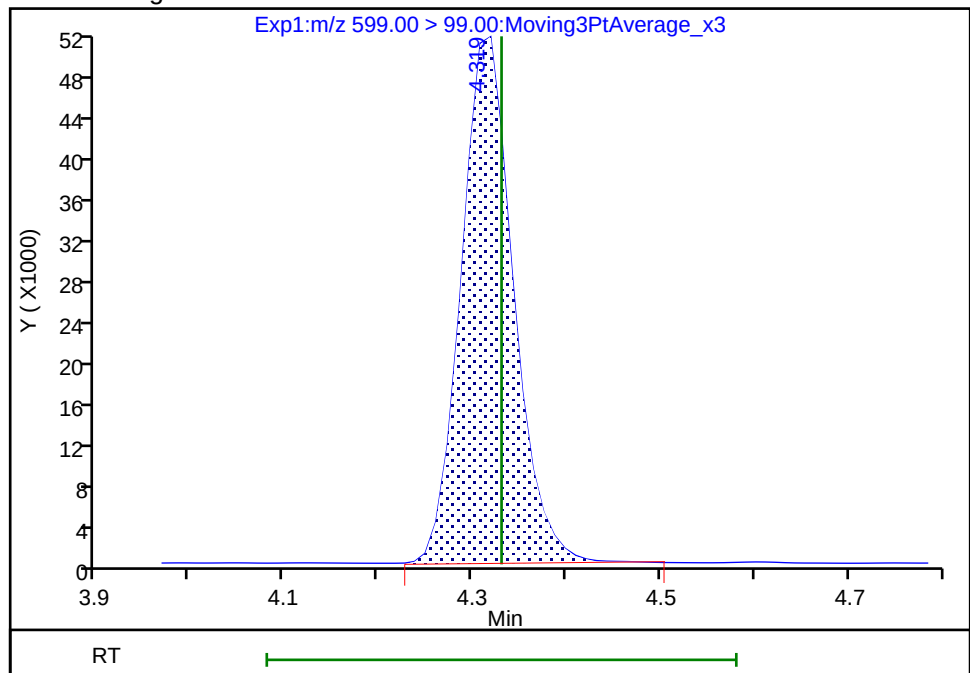
RT: 4.32
Area: 199689
Amount: 0.802157
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 198917
Amount: 0.802157
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:58:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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

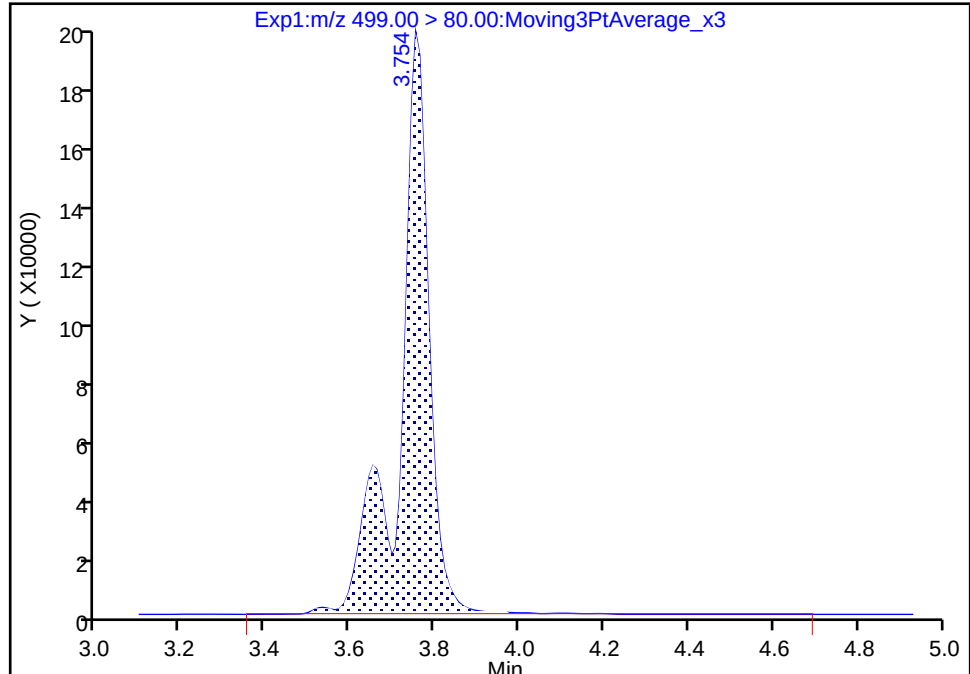
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

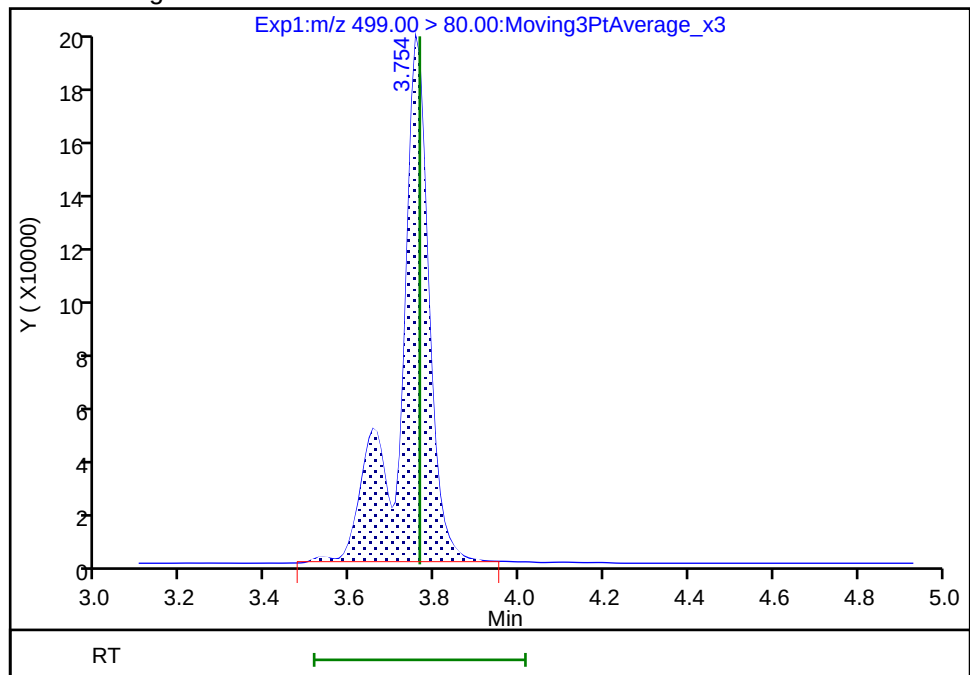
RT: 3.75
Area: 951726
Amount: 0.864169
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 933699
Amount: 0.847801
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:58:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

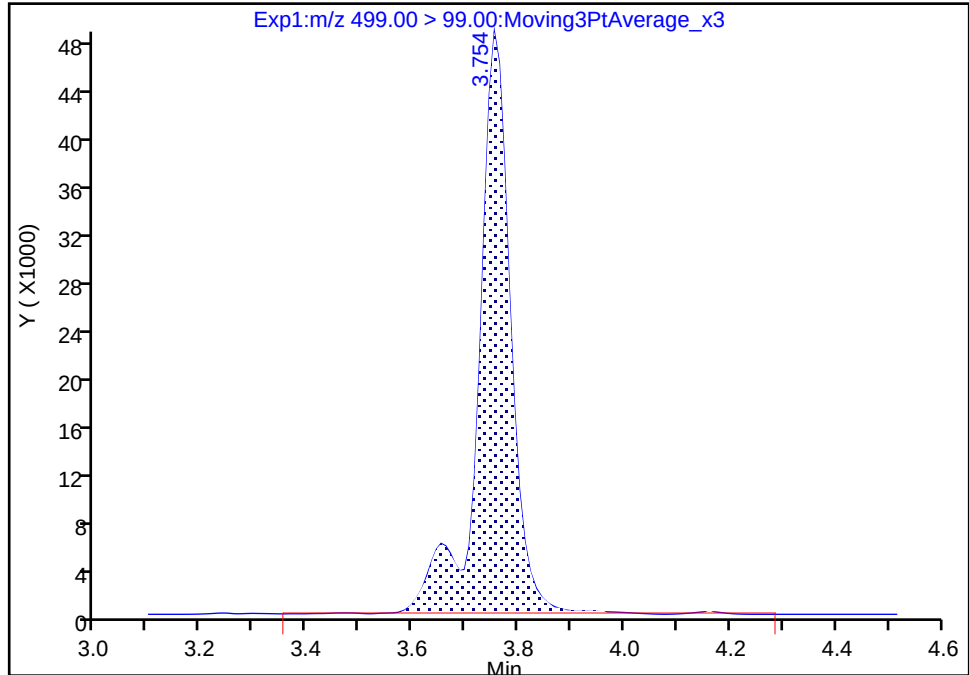
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

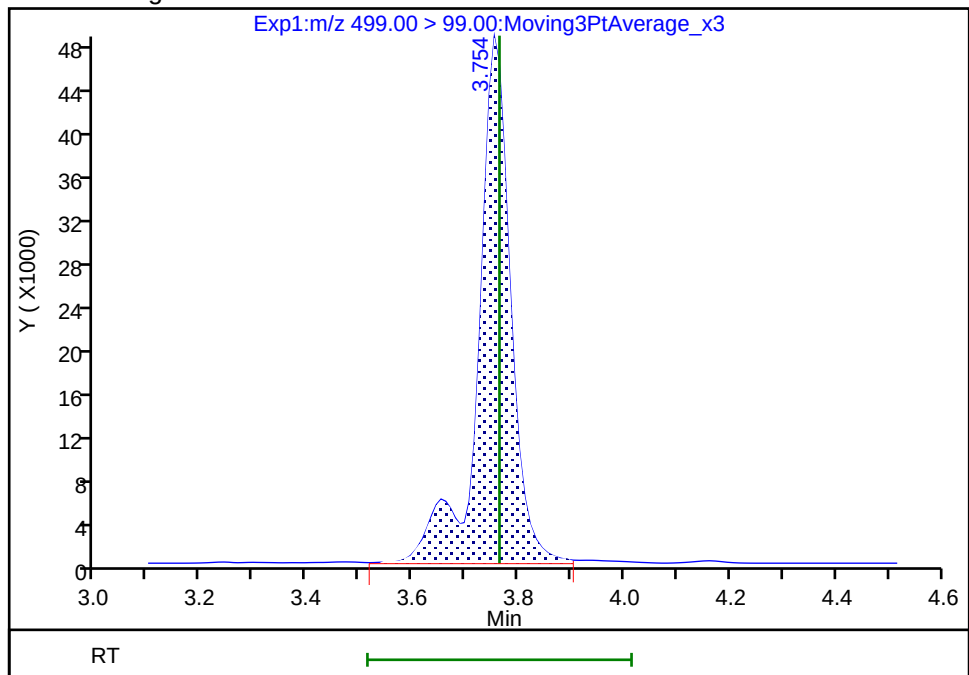
RT: 3.75
Area: 209454
Amount: 0.864169
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 206174
Amount: 0.847801
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:58:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1114 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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)

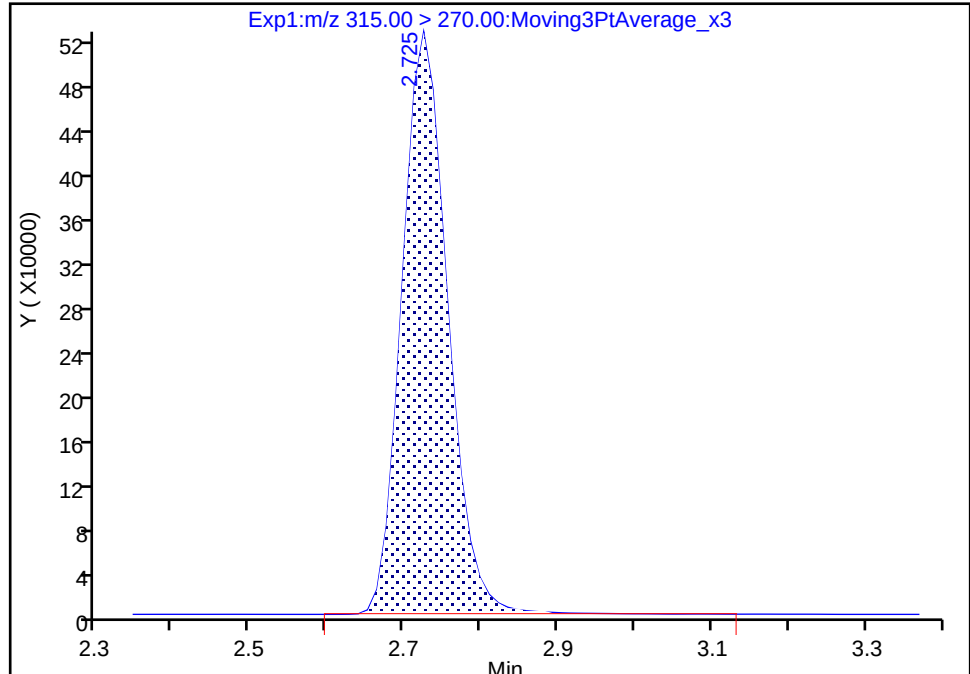
Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

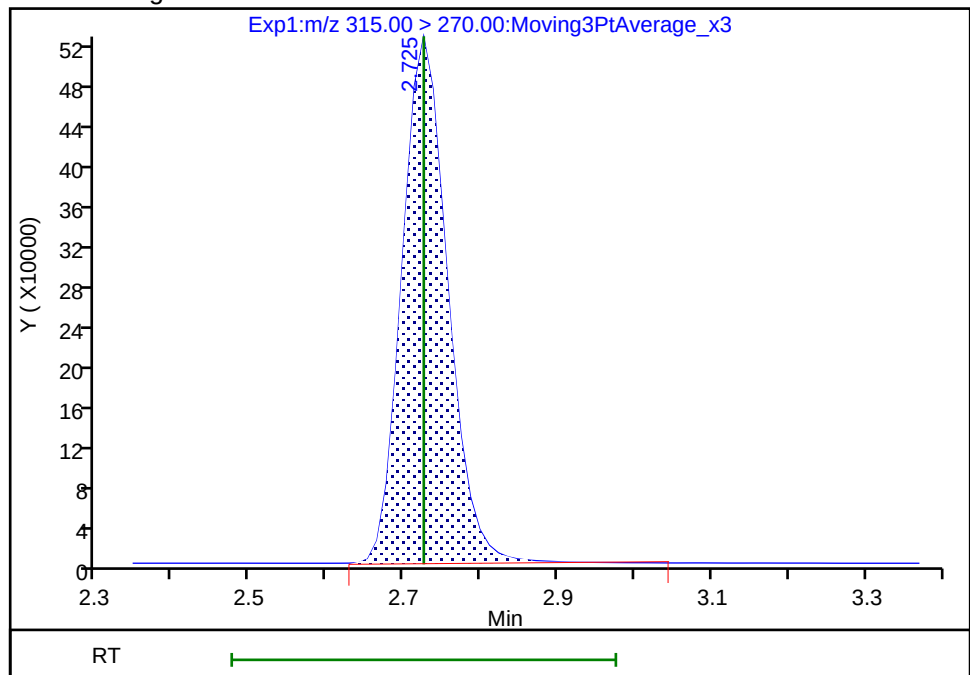
RT: 2.73
Area: 2176006
Amount: 1.054421
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 2172243
Amount: 1.052597
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:56:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

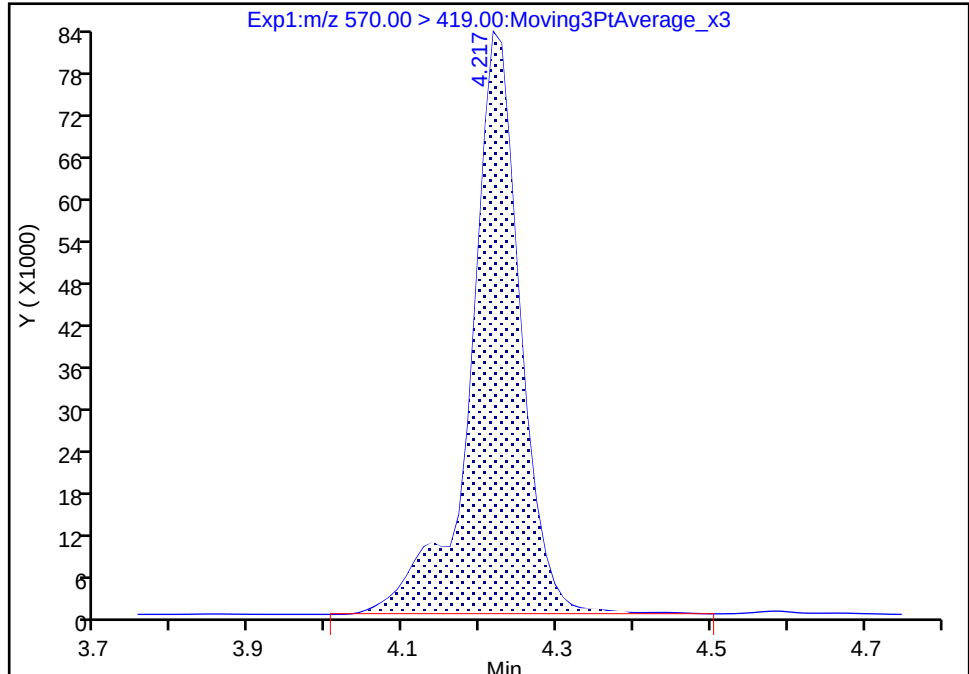
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

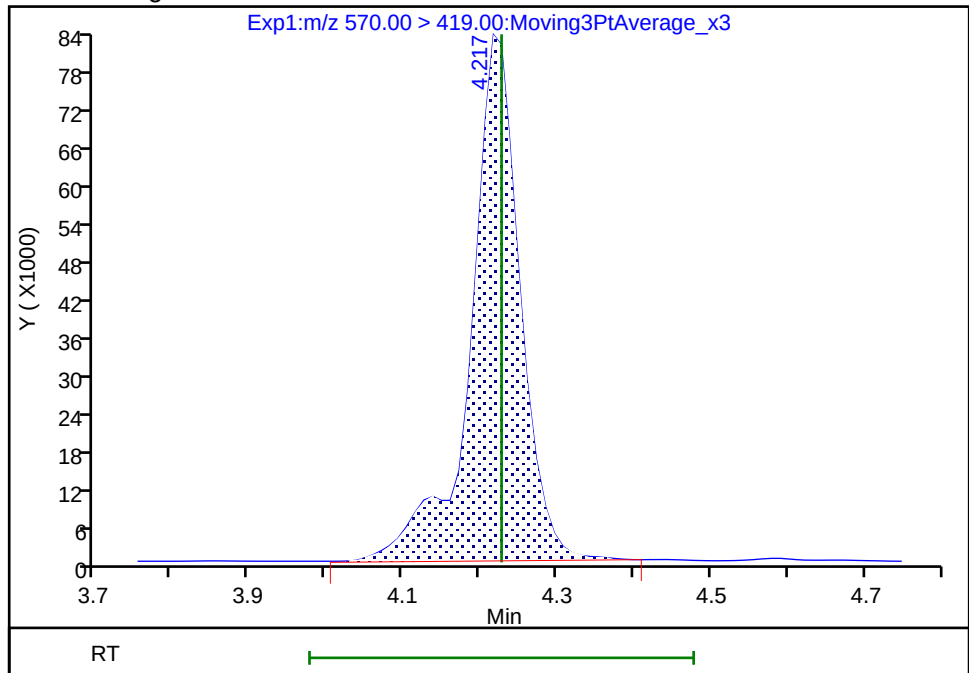
RT: 4.22
Area: 376521
Amount: 1.015776
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 375790
Amount: 1.013781
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:58:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d

Injection Date: 05-Jan-2023 16:19:21

Instrument ID: LC812

Lims ID: LCS 200-187189/2-A

Client ID:

Operator ID: lc812tech

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)

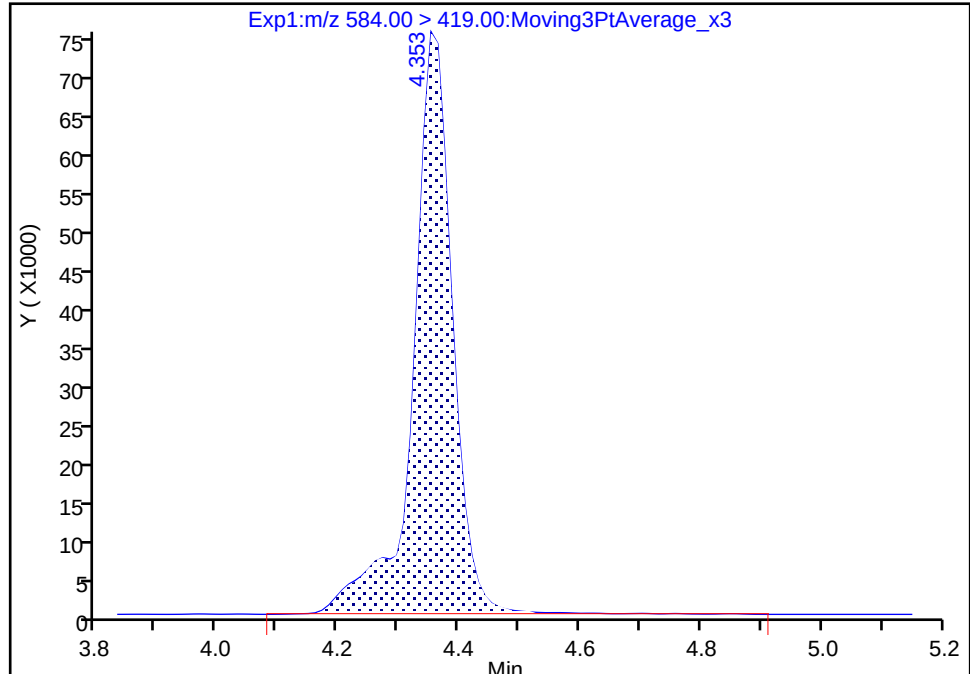
Detector: EXP1

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

Signal: 1

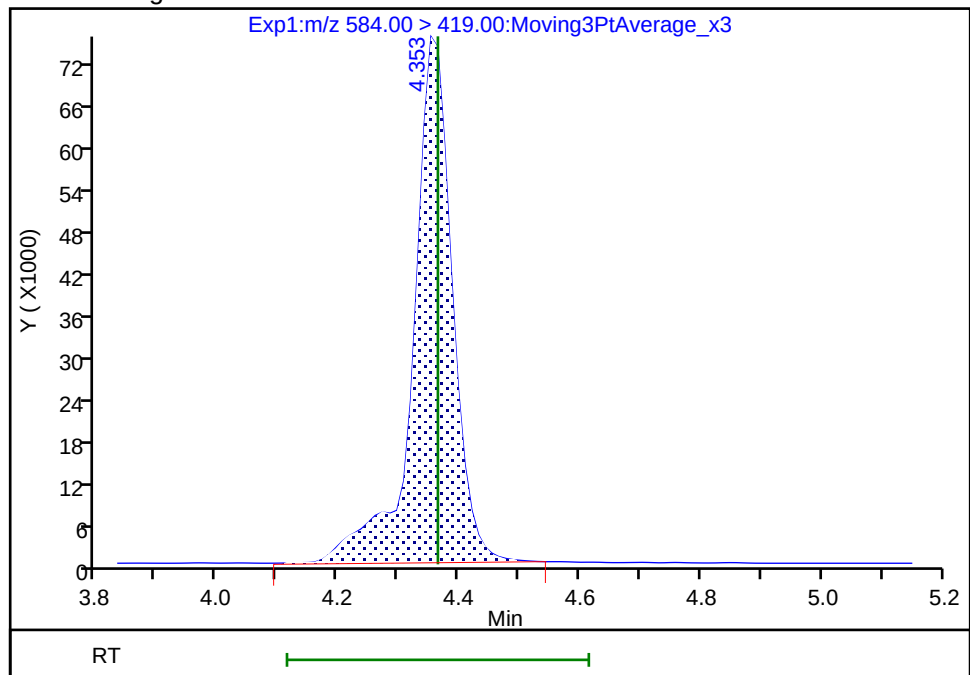
RT: 4.35
Area: 345328
Amount: 0.989975
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 340030
Amount: 0.974787
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:58:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

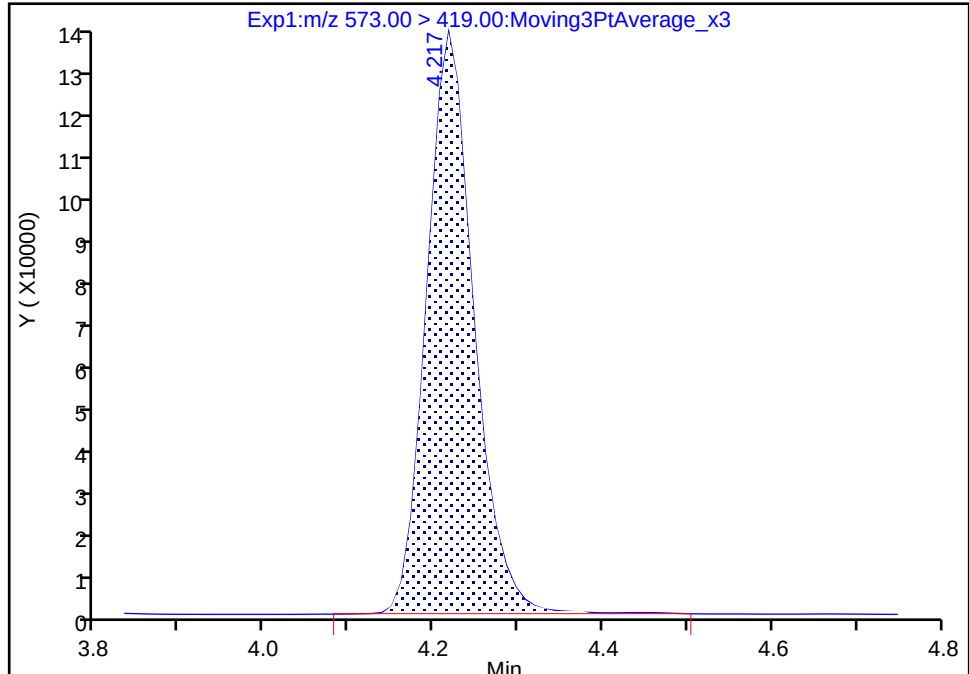
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

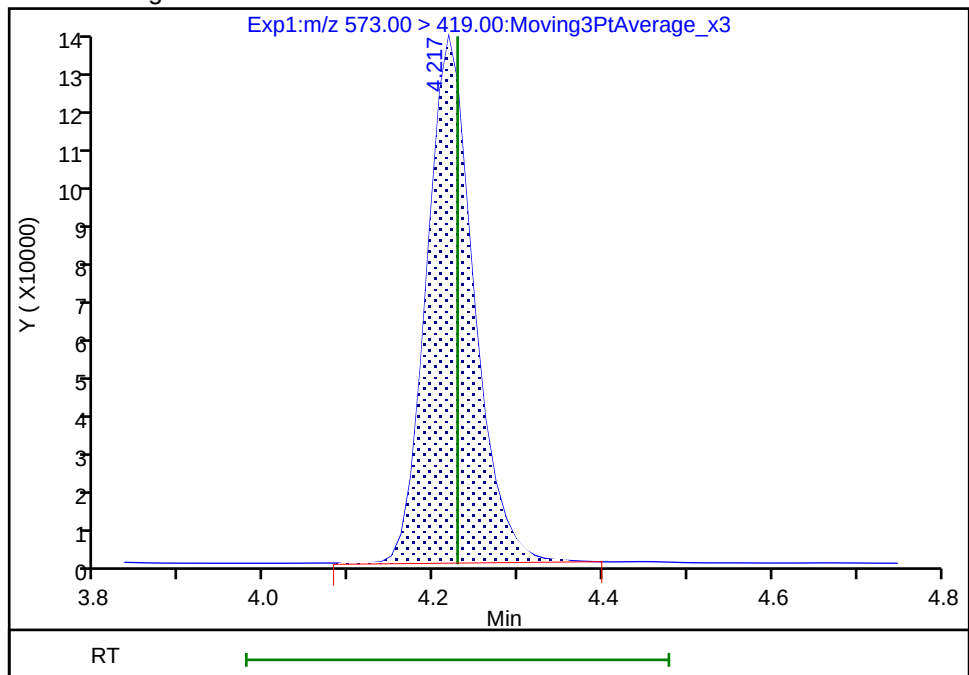
RT: 4.22
Area: 533844
Amount: 1.109523
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 532521
Amount: 1.106773
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:56:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

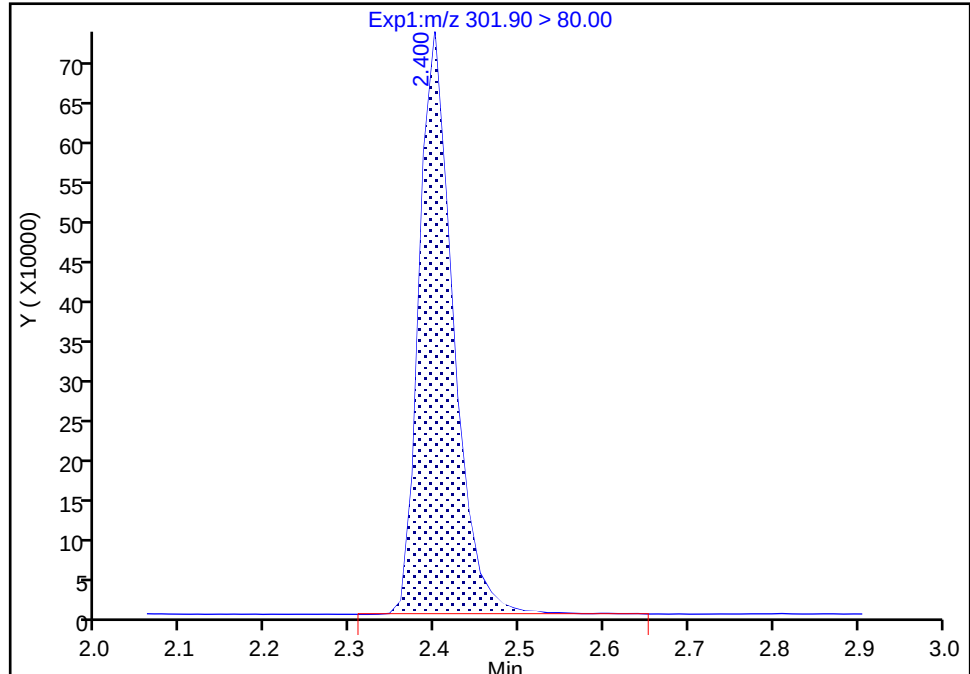
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A12.d
Injection Date: 05-Jan-2023 16:19:21 Instrument ID: LC812
Lims ID: LCS 200-187189/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

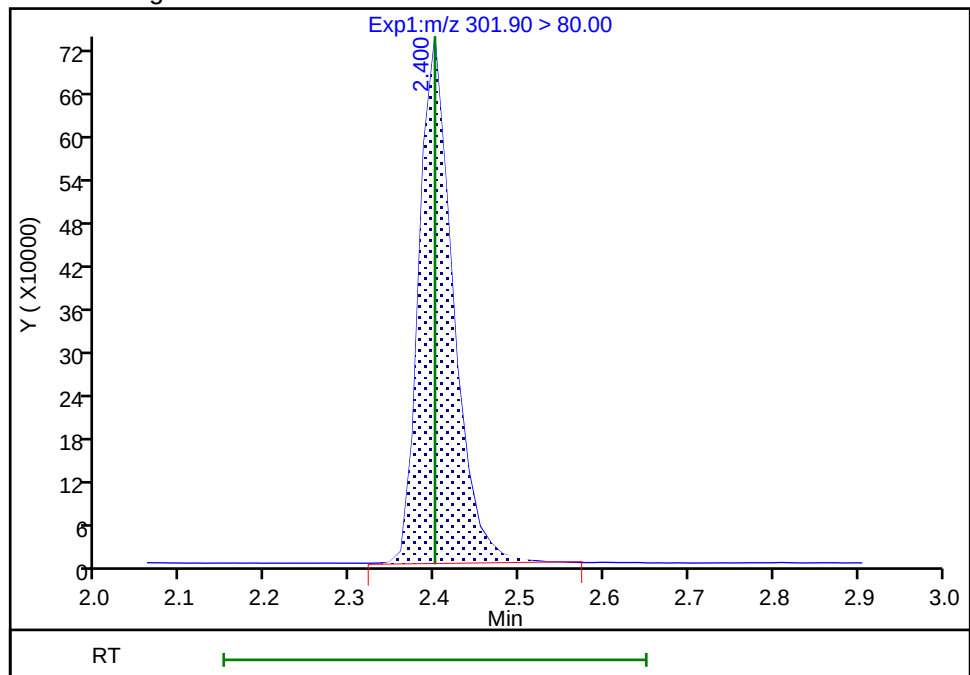
RT: 2.40
Area: 2049903
Amount: 0.957948
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2042319
Amount: 0.954403
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 12:56:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 200-187194/2-A

Matrix: Water Lab File ID: PA230104A09.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 01/03/2023 10:54

Sample wt/vol: 250 (mL) Date Analyzed: 01/04/2023 15:50

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.: 187252 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	40.98		5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	40.60		2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	39.44		2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	37.70		2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	41.15		2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	40.90		2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	39.48		2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	41.54		2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	39.26		2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	36.39		2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	36.20		2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	35.18		2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	36.69		2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	38.77		2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	29.20		2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	34.53		2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	34.56		2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	42.17		5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.17		5.00	1.60
27619-97-2	6:2 FTS	42.66		5.00	1.30
39108-34-4	8:2 FTS	42.33		2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187194/2-A
 Matrix: Water Lab File ID: PA230104A09.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/03/2023 10:54
 Sample wt/vol: 250 (mL) Date Analyzed: 01/04/2023 15:50
 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.: 187252 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	96		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	89		50-150
STL00993	13C2 PFHxA	91		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	89		50-150
STL00994	18O2 PFHxS	94		50-150
STL00998	13C2 PFDoA	64		50-150
STL00991	13C4 PFOS	95		50-150
STL01056	13C8 FOSA	64		50-150
STL01893	13C5 PFPeA	85		50-150
STL02116	13C2 PFTeDA	67		50-150
STL02118	d3-NMeFOSAA	82		50-150
STL02117	d5-NEtFOSAA	73		50-150
STL02279	M2-6:2 FTS	107		50-150
STL02337	13C3 PFBS	90		50-150
STL02280	M2-8:2 FTS	98		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
 Lims ID: LCS 200-187194/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Jan-2023 15:50:53 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-187194/2-A
 Misc. Info.: 200-0053892-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 08:37:21 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: nampitakw

Date: 05-Jan-2023 16:46:47

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	2.076	0.0	0.604	2699770	1.11		88.8	9606	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	2281559	1.02		102	174	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.387	-0.014	0.690	1967512	1.06		85.0	2908	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.373	2.387	-0.014	1.000	1741303	1.02		102	36.4	
D 47 13C3 PFBS										
301.90 > 80.00	2.386	2.400	-0.014	0.694	2095537	1.04		89.6	144083	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.006	1813965	0.8796	Target=2.09	99.5	1494	
298.90 > 99.00	2.400	2.400	0.0	1.006	871036		2.08(1.04-3.13)		344	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	478554	1.01		108	2638	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.782	180123	1.01		86.8	175	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.789	2208553	1.14		91.0	2618	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.004	1898166	0.9860	Target=14.25	98.6	212	M
313.00 > 119.00	2.725	2.725	0.0	1.004	138288		13.73(7.12-21.37)		190	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.725	2.737	-0.012	0.883	1786875	0.9688	Target=3.04	103	1420	
349.00 > 99.00	2.725	2.737	-0.012	0.883	585923		3.05(1.52-4.56)		746	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.822	2.835	-0.013	1.000	346526	1.04		104	1502	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	2.822	2.835	-0.013	0.821	394784	1.15		92.2	1023	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.898	1633129	1.11		94.2	2592	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.087	3.088	-0.001	1.000	1429729	0.9172	Target=3.66	101	1340	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	419365		3.41(1.83-5.49)		476	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.898	2405486	1.21		96.4	4374	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.087	3.099	-0.012	1.000	1974991	0.9426	Target=3.97	94.3	285	M
363.00 > 169.00	3.087	3.099	-0.012	1.000	523207		3.77(1.98-5.95)		739	
77 DONA										
377.00 > 251.00	3.121	3.132	-0.011	0.831	4957594	0.9502	Target=3.16	101	3686	M
377.00 > 85.00	3.121	3.132	-0.011	0.831	1559767		3.18(1.58-4.73)		1478	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.429	3.439	-0.010	0.997	311311	1.27		107	709	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.429	3.439	-0.010	1.000	597215	1.07		113	503	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.429	3.439	-0.010	0.914	1282721	0.9693	Target=5.14	102	2866	M
449.00 > 99.00	3.429	3.439	-0.010	0.914	253436		5.06(2.57-7.72)		758	M
D 14 13C4 PFOA										
417.00 > 372.00	3.438	3.448	-0.010	1.000	2703874	1.20		96.4	3199	
* 62 13C2 PFOA										
415.00 > 370.00	3.438	3.448	-0.010		2710199	1.25			2413	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.438	3.448	-0.010	1.000	2378896	1.03	Target=2.79	103	154	M
413.00 > 169.00	3.438	3.448	-0.010	1.000	843558		2.82(1.40-4.19)		695	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.764	-0.011	1.092	1132177	1.14		95.2	2376	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.764	-0.011	1.000	994721	0.8633	Target=5.11	93.0	884	M
499.00 > 99.00	3.753	3.764	-0.011	1.000	236767		4.20(2.55-7.66)		175	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.772	3.783	-0.011	1.000	2267719	1.02	Target=8.55	102	512	M
463.00 > 169.00	3.772	3.783	-0.011	1.000	259270		8.75(4.28-12.83)		1179	M
D 19 13C5 PFNA										
468.00 > 423.00	3.772	3.783	-0.011	1.097	2672719	1.23		98.0	3704	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.914	3.928	-0.014	1.043	2492995	0.9427		101	2420	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.041	4.050	-0.009	1.077	769345	0.8847	Target=2.53	92.2	2171	M
549.00 > 99.00	4.041	4.050	-0.009	1.077	301989		2.55(1.27-3.80)		1416	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.184	2928185	1.32		105	5578	M

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	4.081	-0.010	1.000	2507216	0.9869	Target=10.26	98.7	939	
513.00 > 169.00	4.071	4.081	-0.010	1.000	240064		10.44(5.13-15.38)		972	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	352527	1.17		97.9	971	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.093	-0.012	1.000	503800	1.06		110	1861	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.138	4.150	-0.012	1.000	1056836	0.8639		86.4	1609	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.204	1463634	0.8034		64.3	2163	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.227	465376	1.03		82.3	446	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.217	4.228	-0.011	1.000	341362	1.05		105	469	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.308	4.331	-0.023	1.148	501290	0.7300	Target=2.51	75.7	2069	M
599.00 > 99.00	4.308	4.331	-0.023	1.148	184413		2.72(1.25-3.76)		1427	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.263	2266878	1.11		89.1	4135	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.353	-0.011	1.000	1897994	1.04	Target=9.88	104	831	
563.00 > 169.00	4.342	4.353	-0.011	1.000	177294		10.71(4.94-14.82)		1343	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.353	4.365	-0.012	1.000	290939	1.00		100	809	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.266	404490	0.9079		72.6	887	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.184	2586983	0.6346		67.4	3297	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.000	1384221	0.9815	Target=7.77	98.1	127	M
613.00 > 169.00	4.580	4.591	-0.011	1.000	185658		7.46(3.89-11.66)		963	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.332	1663988	0.8026		64.2	2598	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.591	4.612	-0.021	1.125	199793	0.6984		72.5	1212	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.268	155781	0.5362	Target=0.50	55.4	2046	
699.00 > 99.00	4.758	4.776	-0.018	1.268	308382		0.51(0.25-0.76)		2095	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.785	4.804	-0.019	1.045	1227022	0.9097	Target=5.21	91.0	121	M
663.00 > 169.00	4.785	4.804	-0.019	1.045	220885		5.56(2.60-7.81)		883	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.982	5.012	-0.030	1.000	149649	0.9049	Target=0.89	90.5	1252	
713.00 > 219.00	4.982	5.012	-0.030	1.000	158827		0.94(0.44-1.33)		883	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.982	5.012	-0.030	1.449	1509984	0.8421		67.4	4004	

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	5.344	5.367	-0.023	1.000	1582993	0.9752	Target=5.65	97.5	189	
813.00 > 169.00	5.344	5.367	-0.023	1.000	245826		6.44(2.82-8.47)		1238	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.555	2168808	0.9783		78.3	2209	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.677	5.722	-0.045	1.062	1609017	1.13	Target=6.24	113	223	M
913.00 > 169.00	5.677	5.722	-0.045	1.062	229988		7.00(3.12-9.36)		741	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

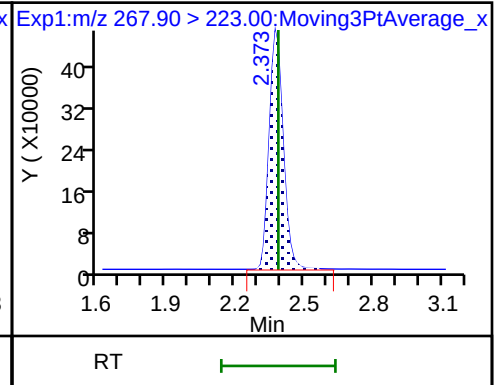
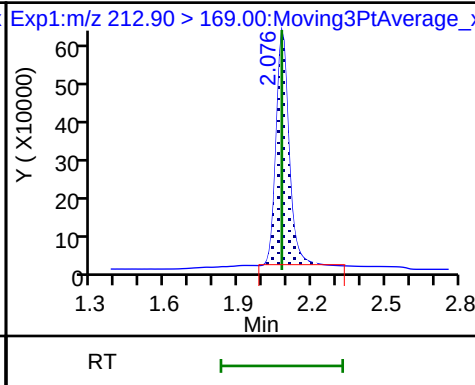
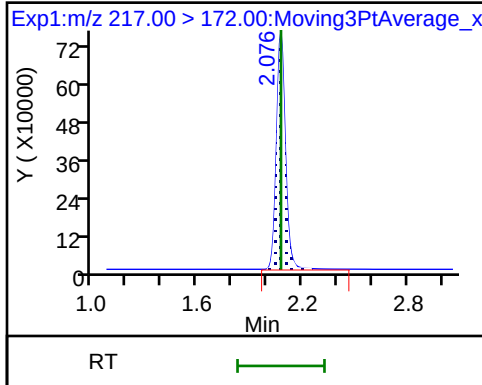
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

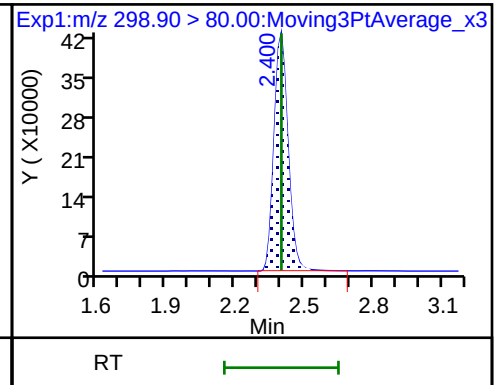
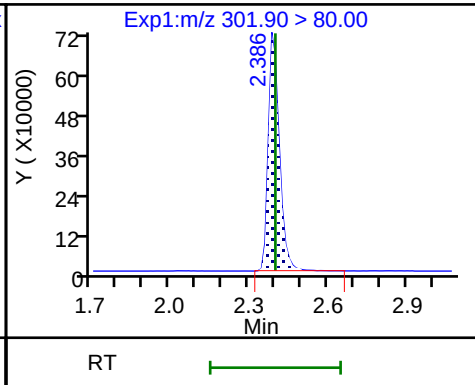
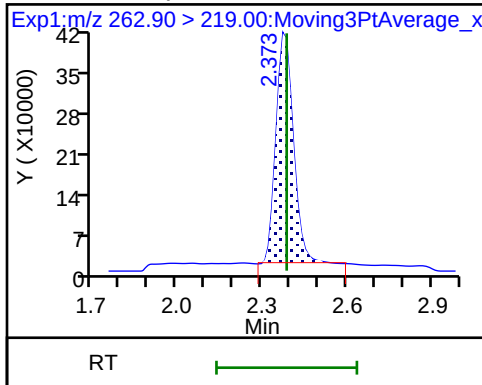
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

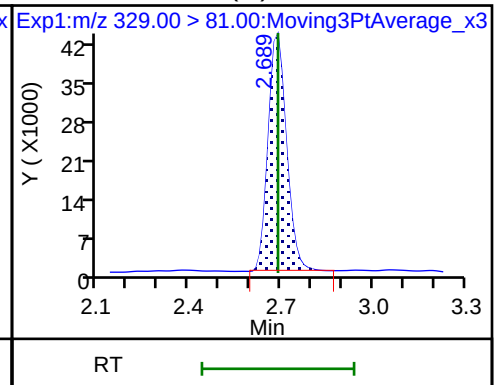
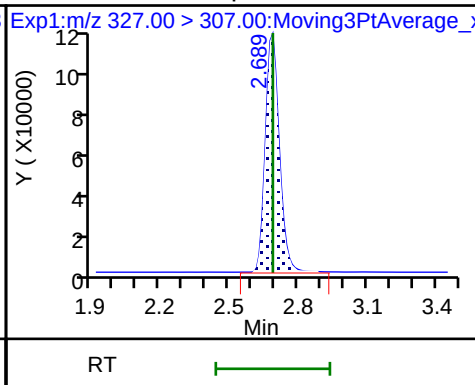
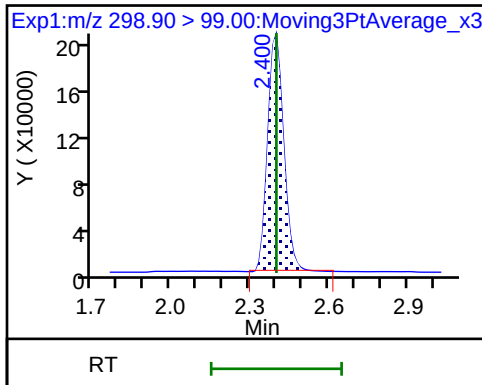
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

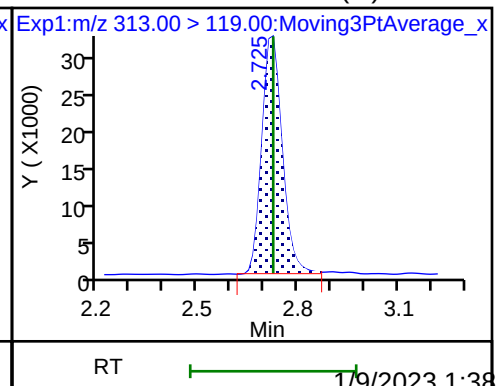
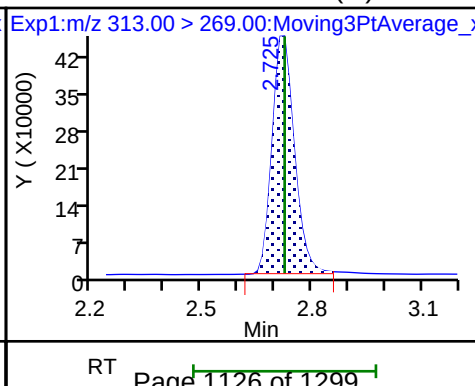
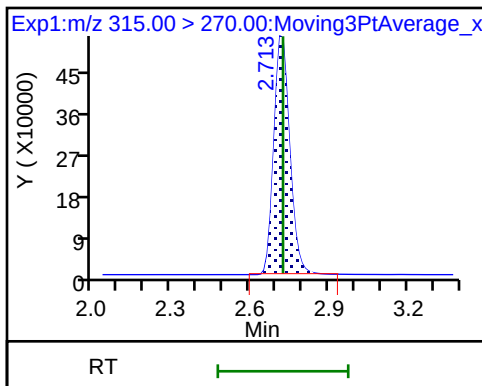
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

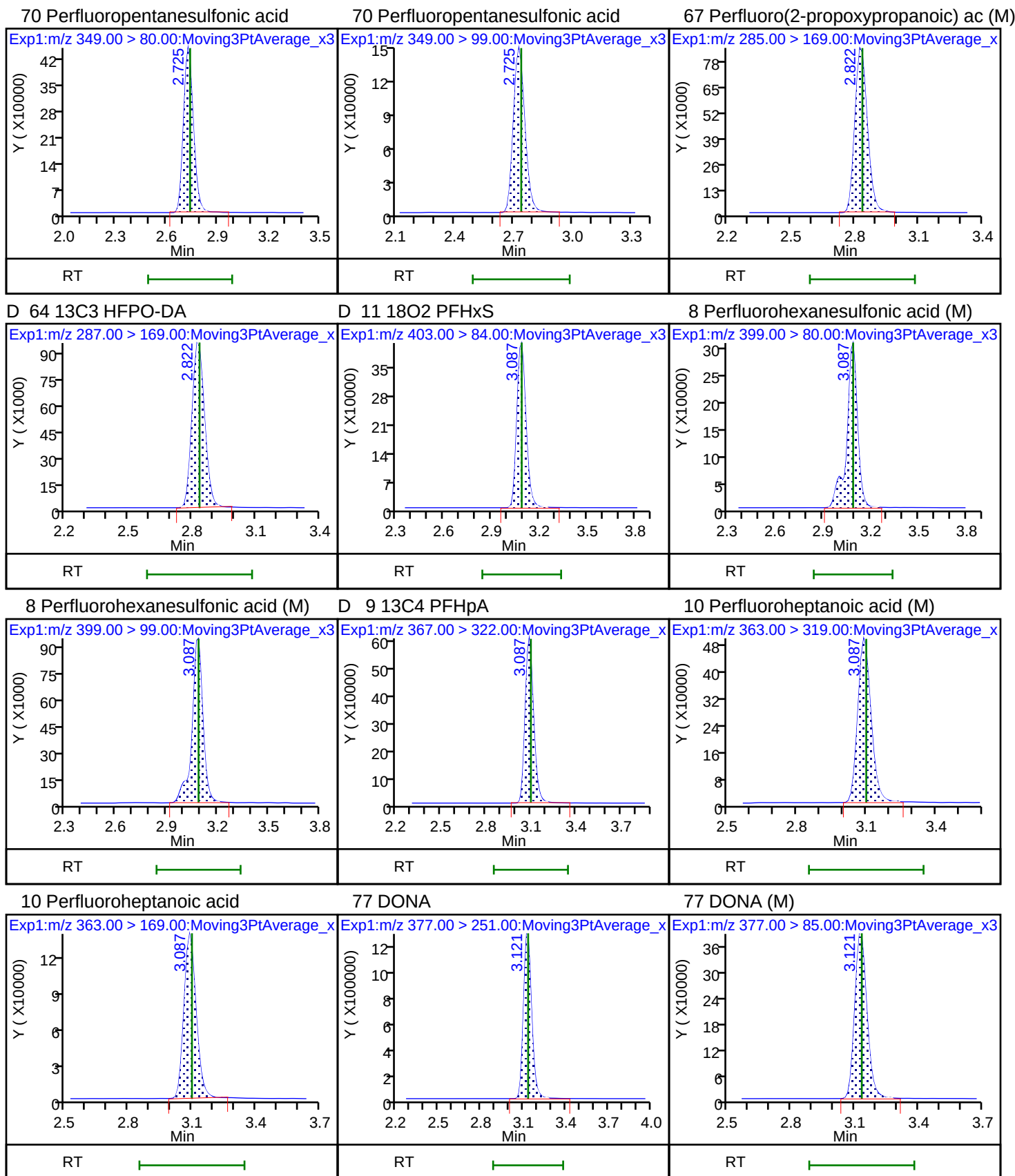


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

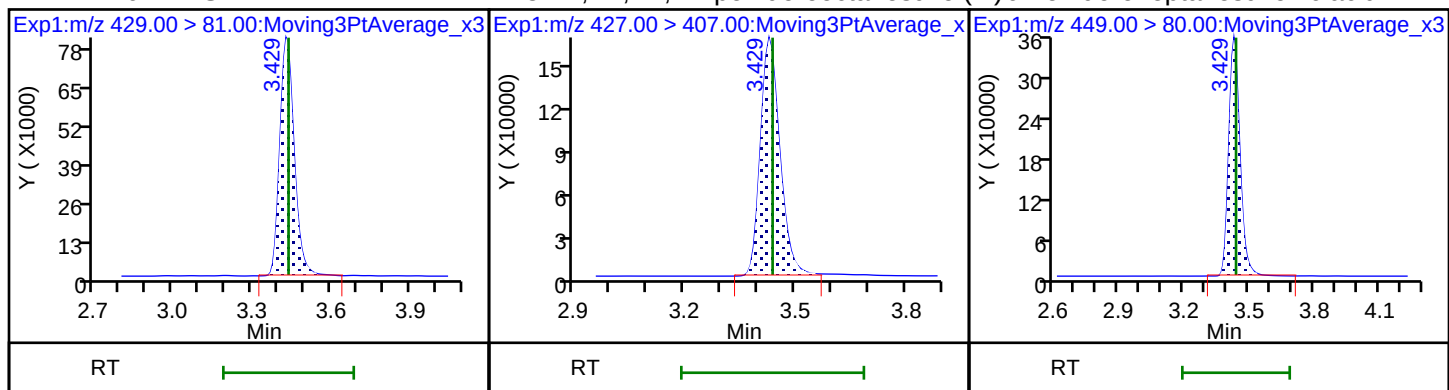
6 Perfluorohexanoic acid (M)





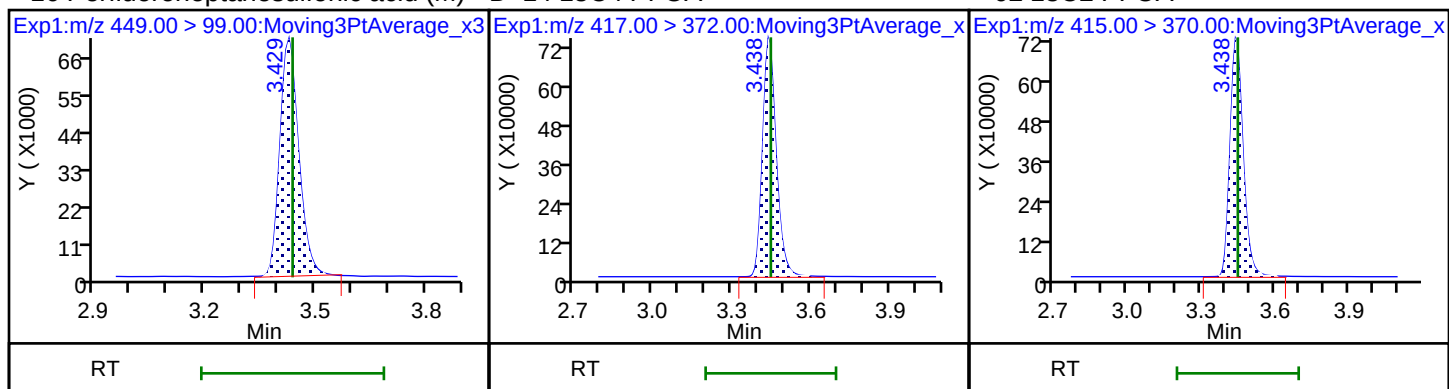
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

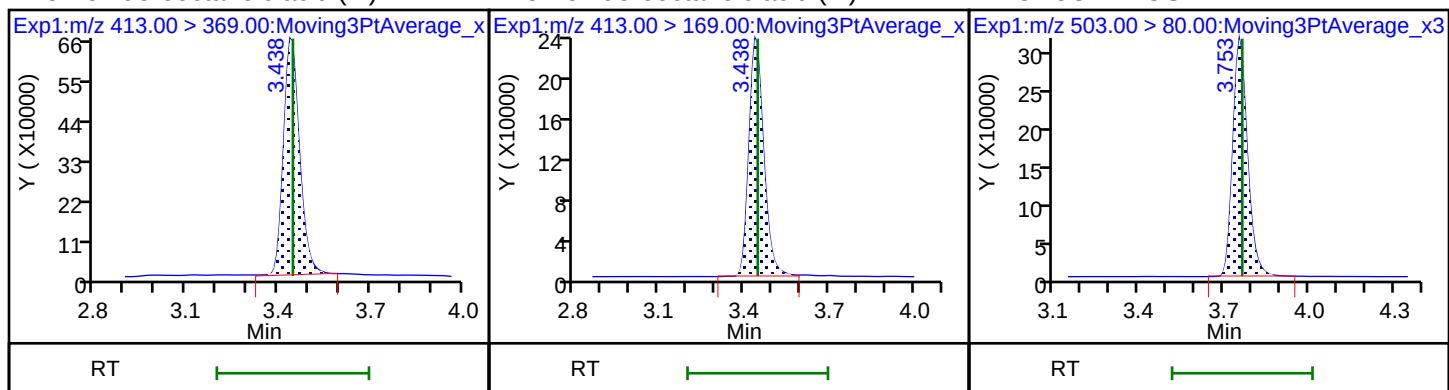
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

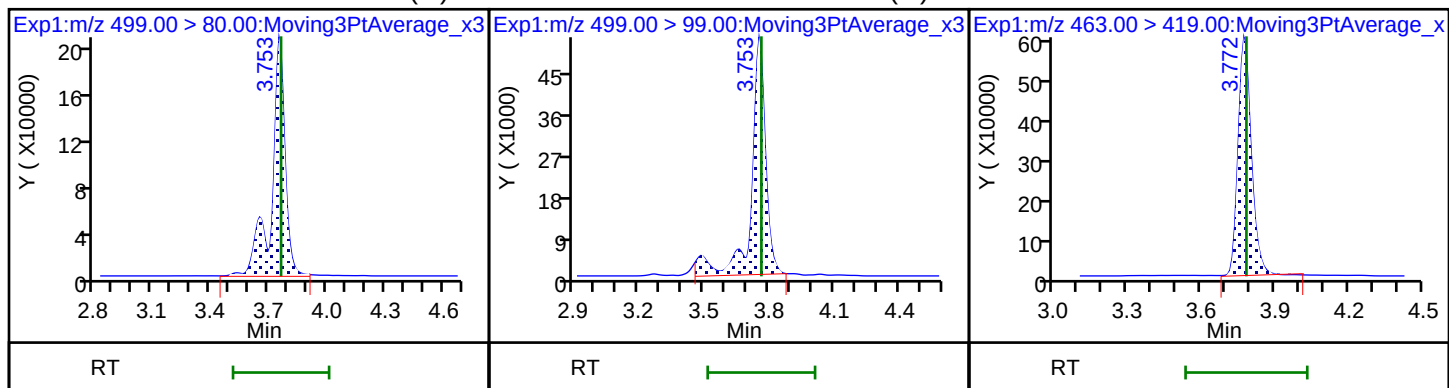
D 18 13C4 PFOS

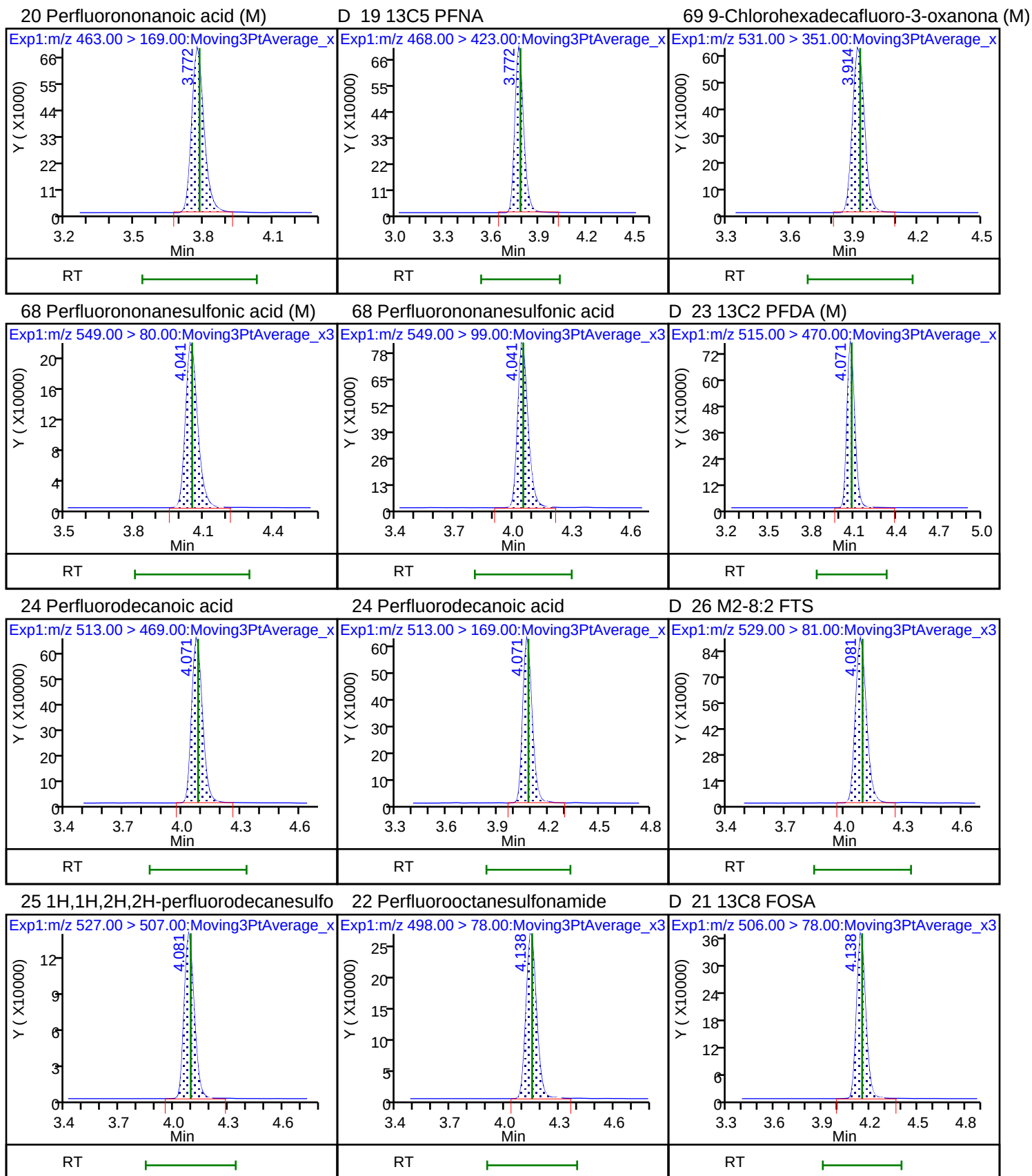


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

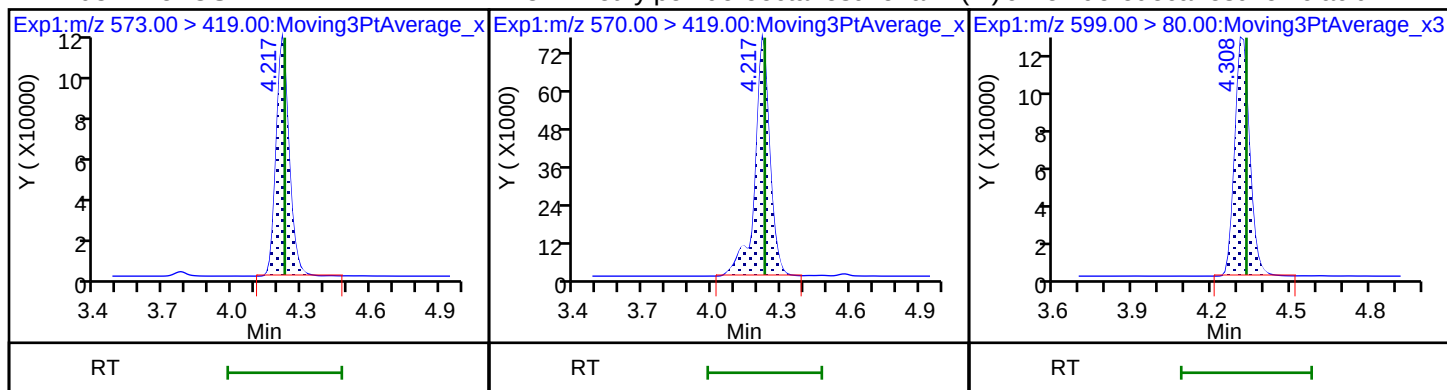
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

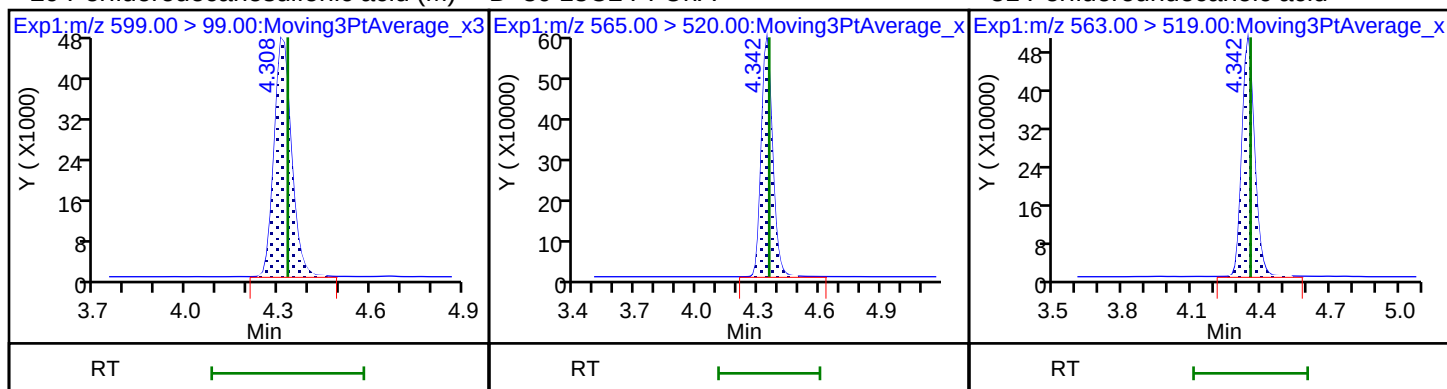
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

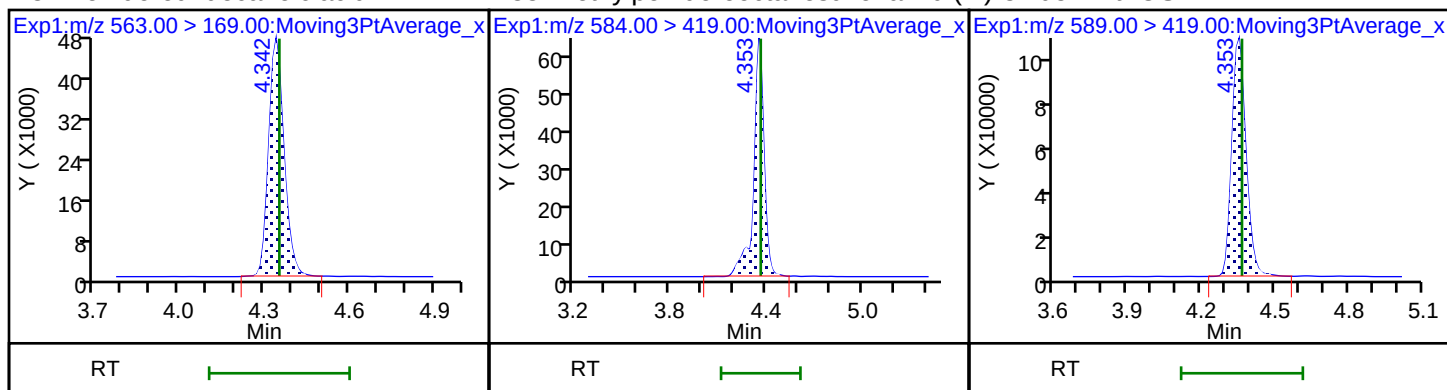
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

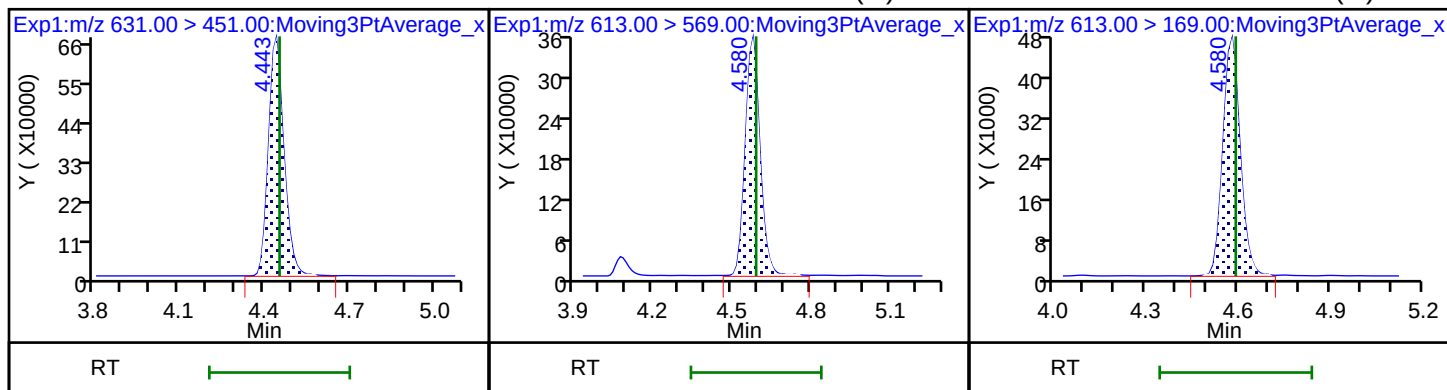
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

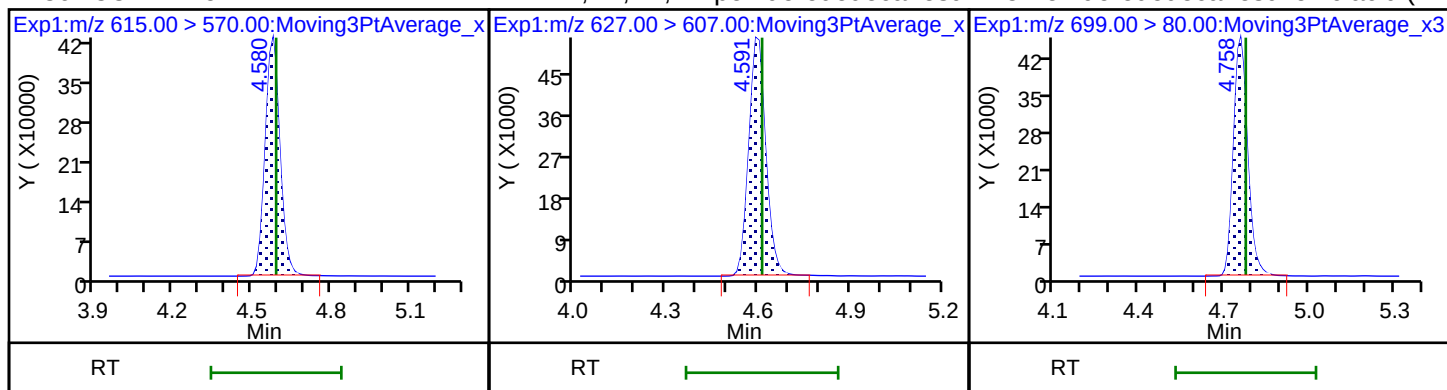
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFD0A

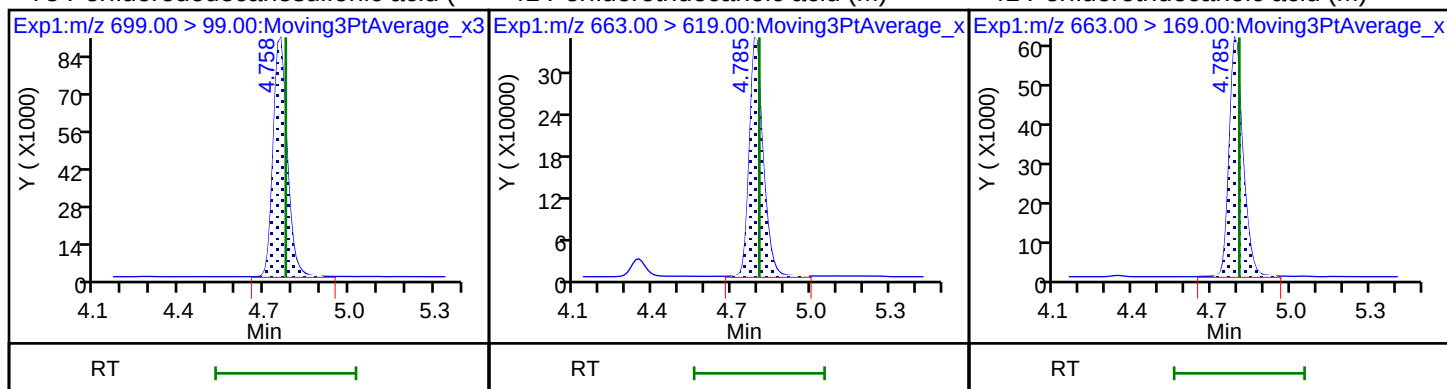
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

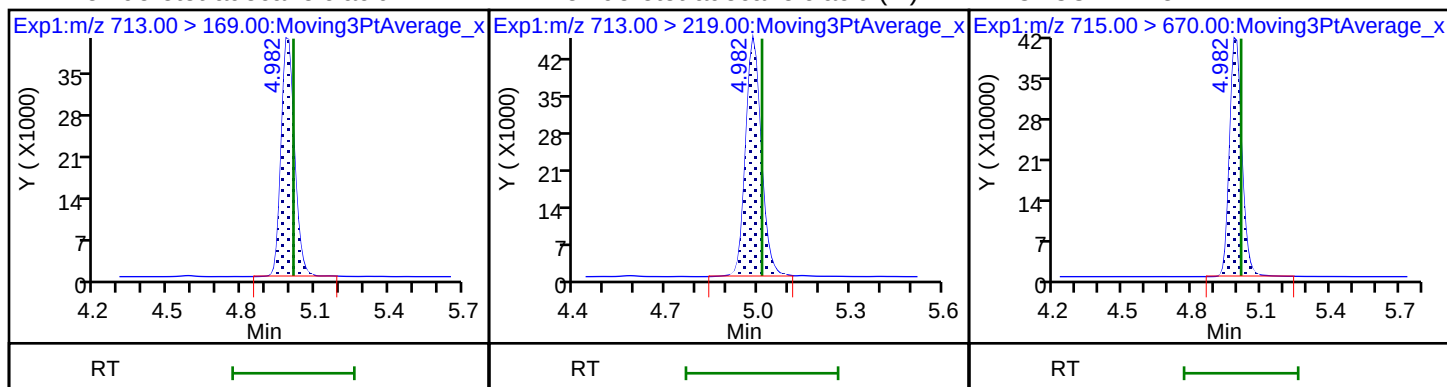
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

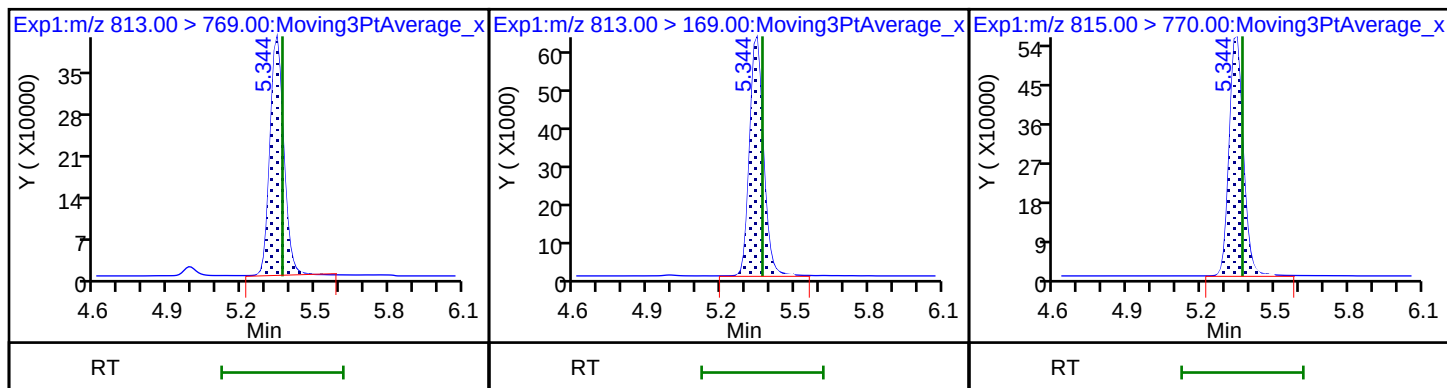
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

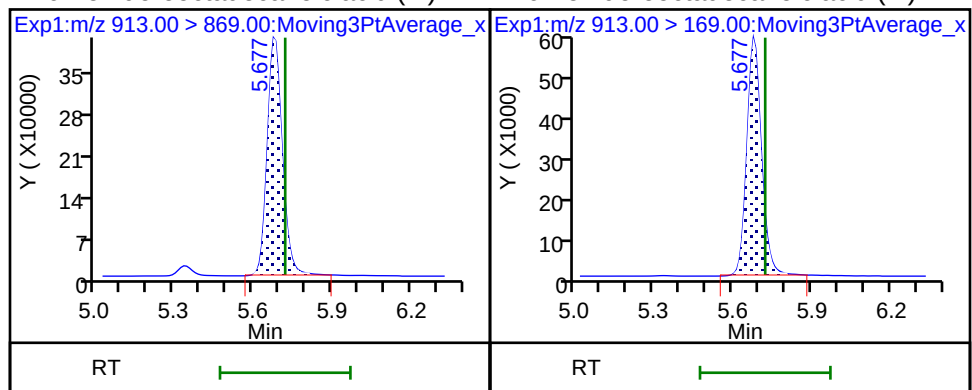
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

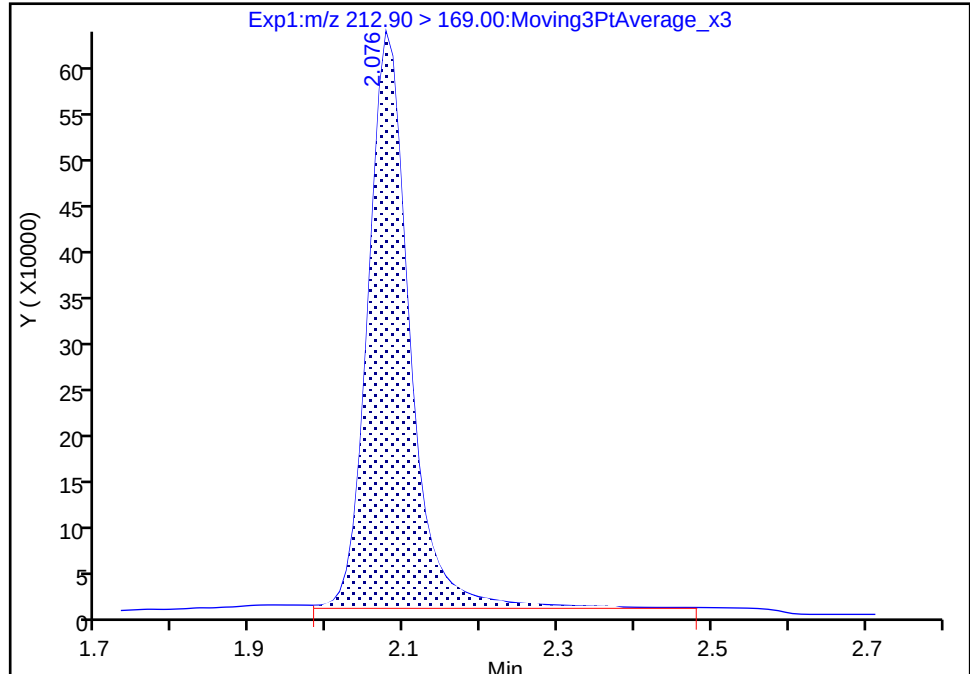
EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

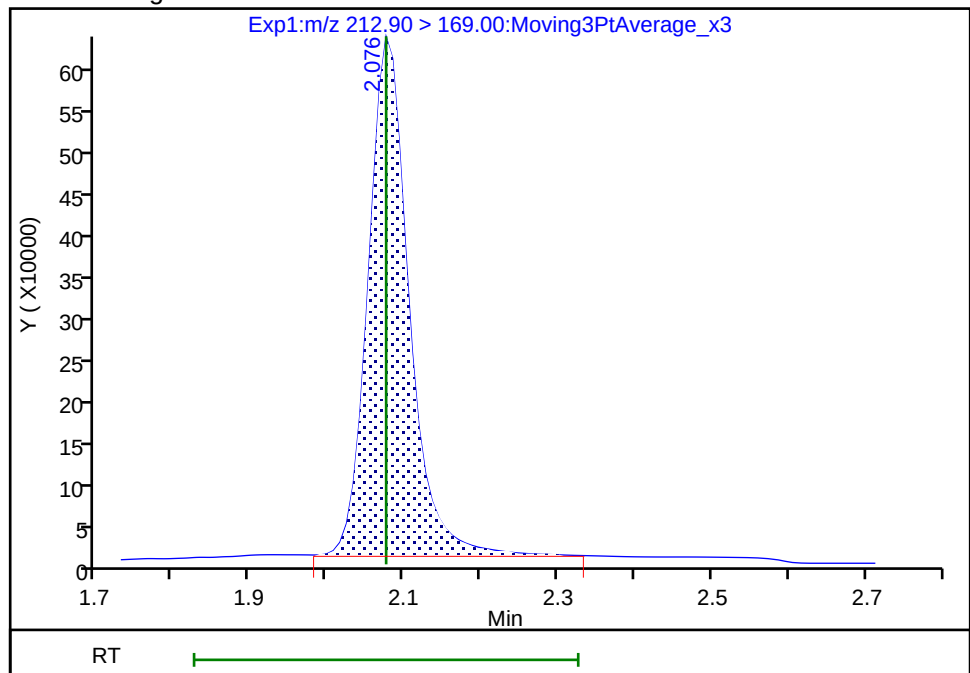
RT: 2.08
Area: 2334156
Amount: 1.048026
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2281559
Amount: 1.024410
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:43:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

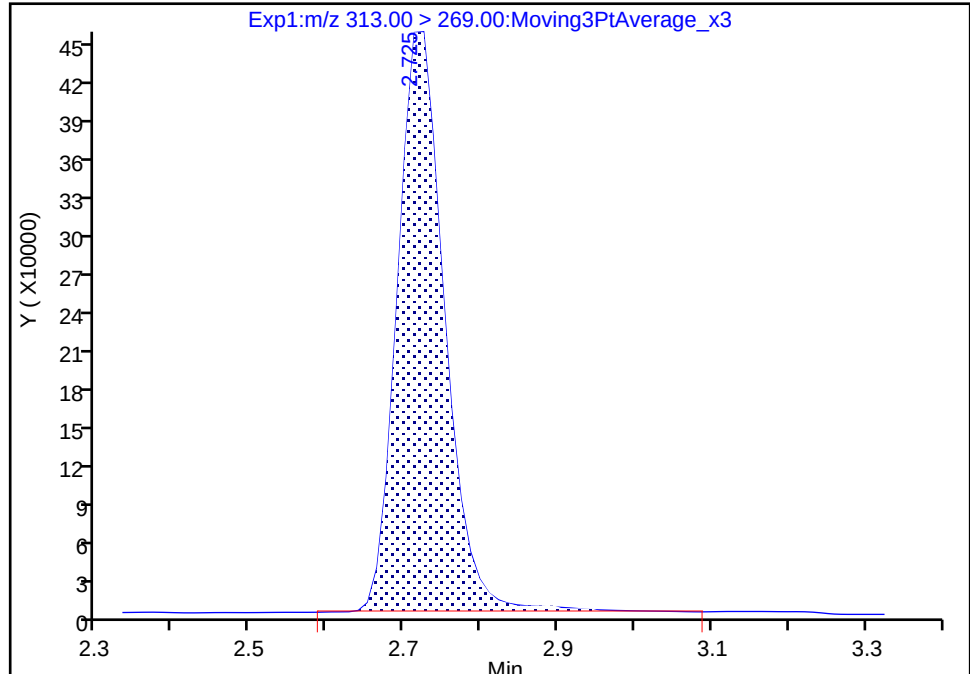
EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

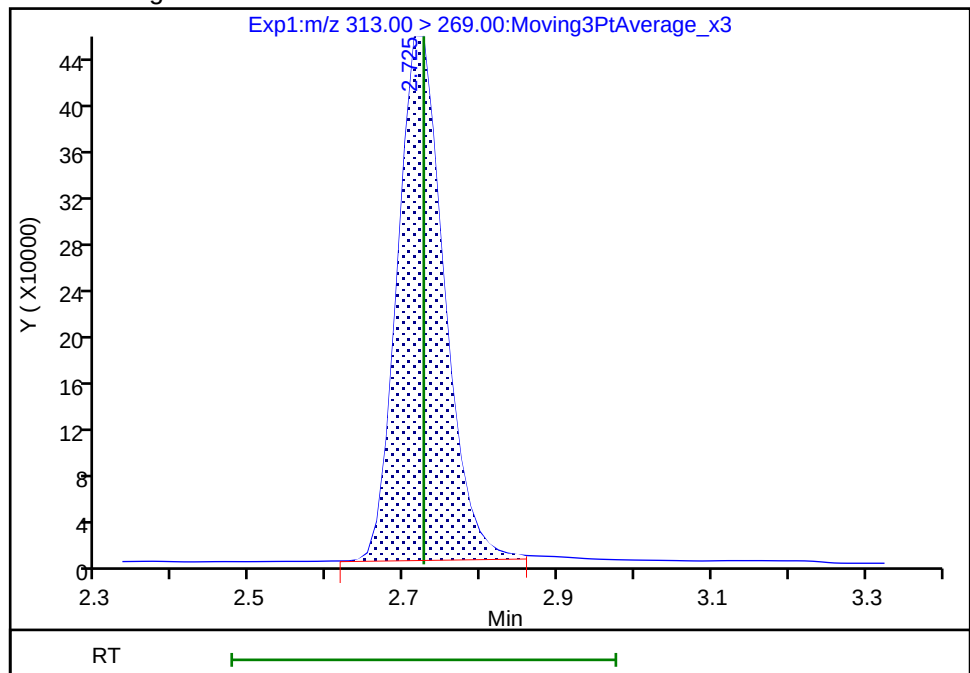
RT: 2.73
Area: 1932425
Amount: 1.003769
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1898166
Amount: 0.985973
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:43:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

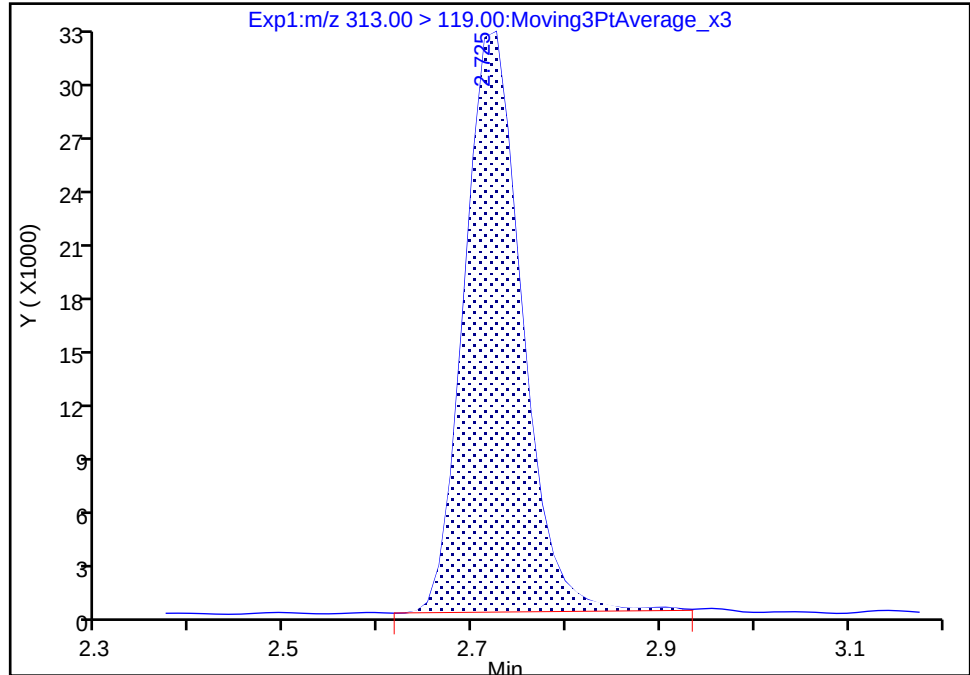
EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

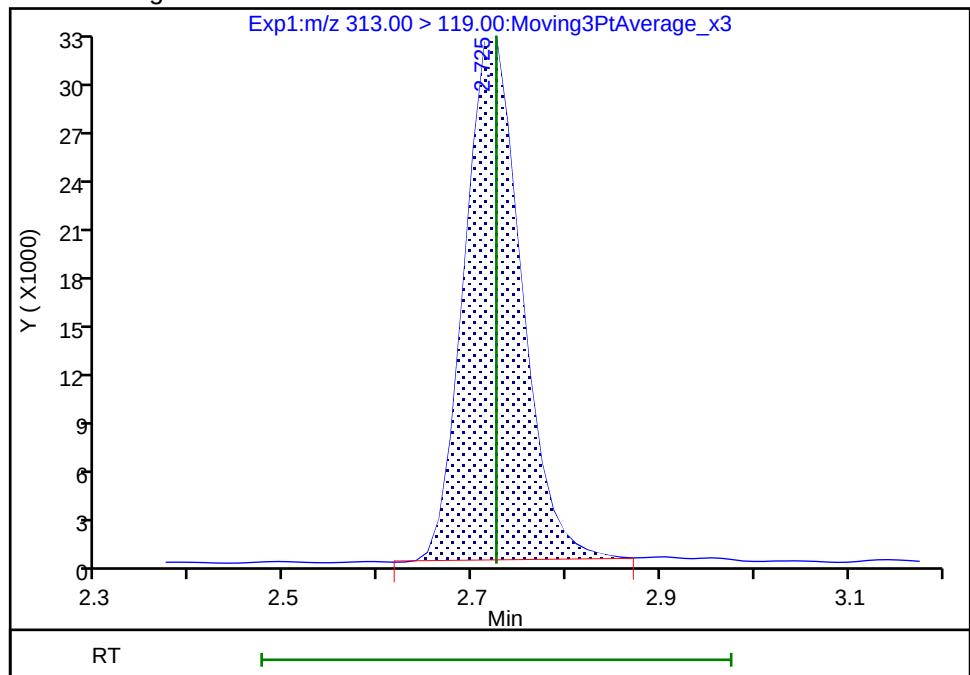
RT: 2.73
Area: 138597
Amount: 1.003769
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 138288
Amount: 0.985973
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:43:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

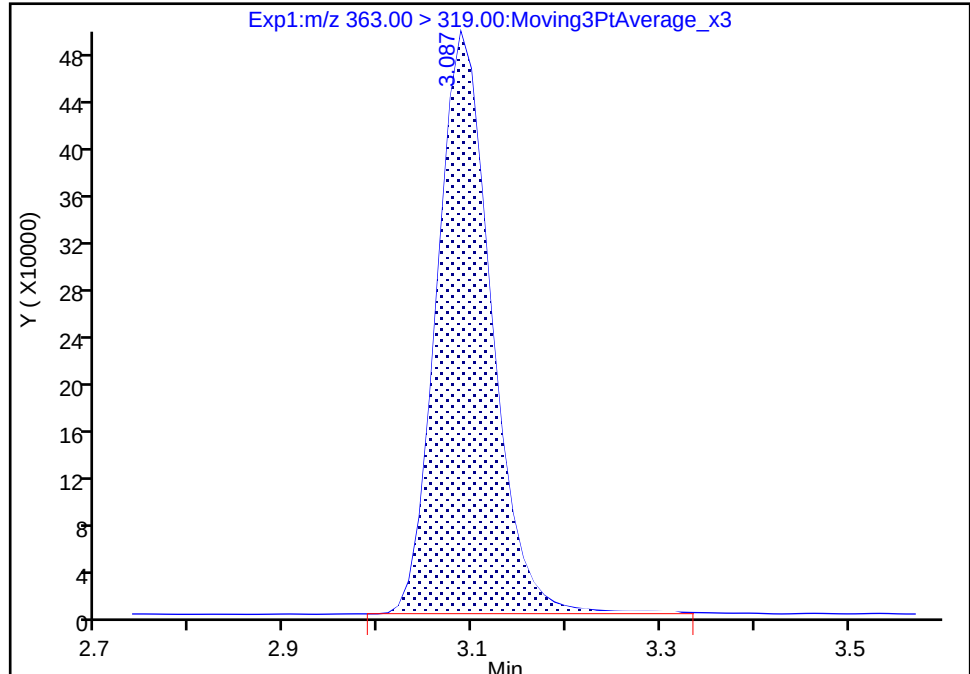
EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

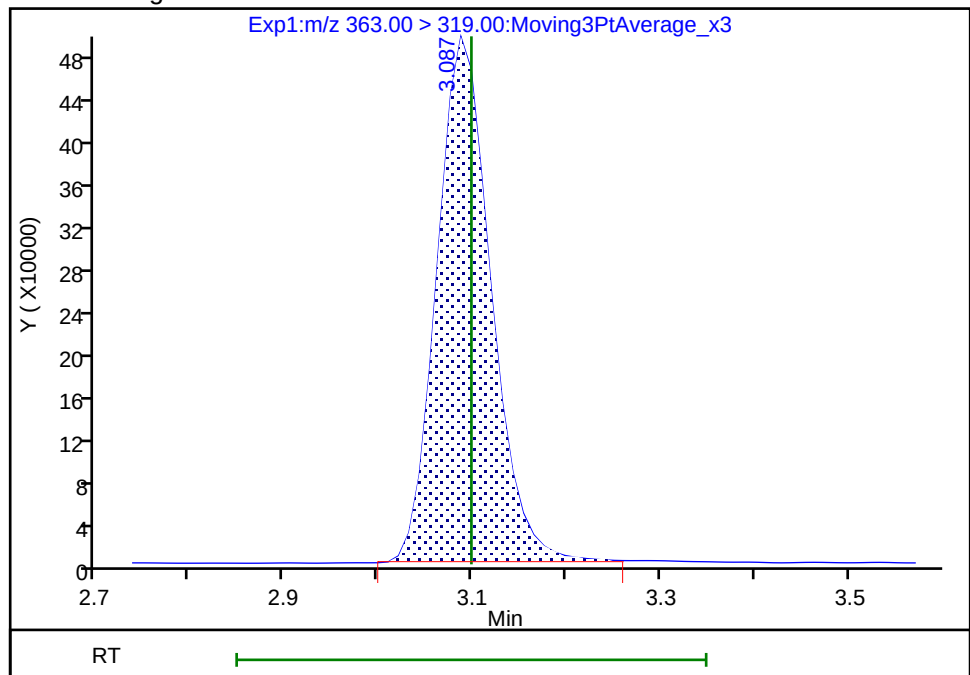
RT: 3.09
Area: 1988054
Amount: 0.948843
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1974991
Amount: 0.942608
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:44:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

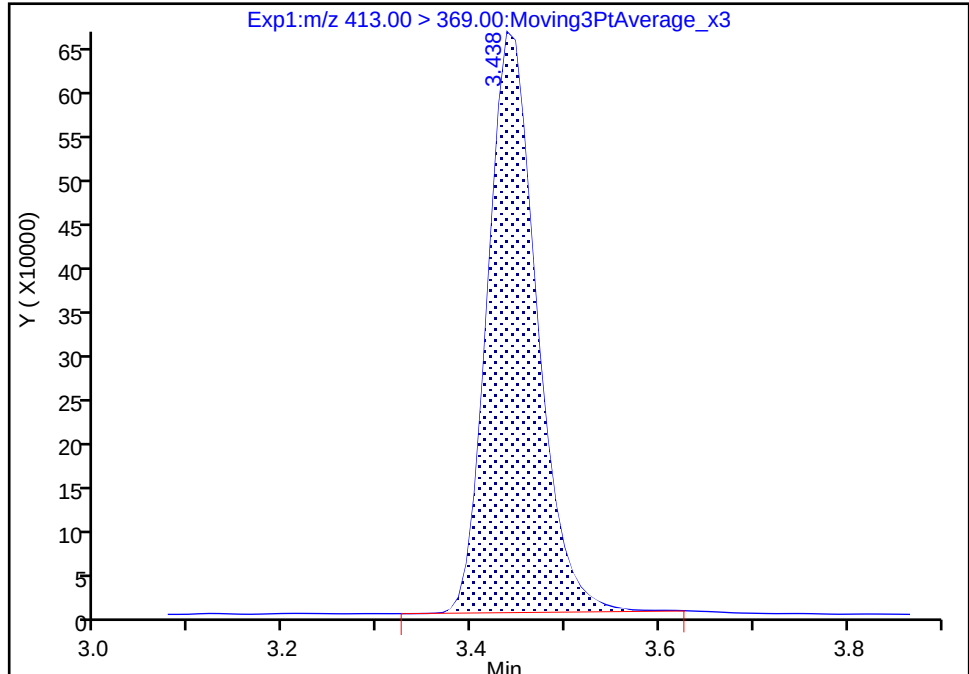
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

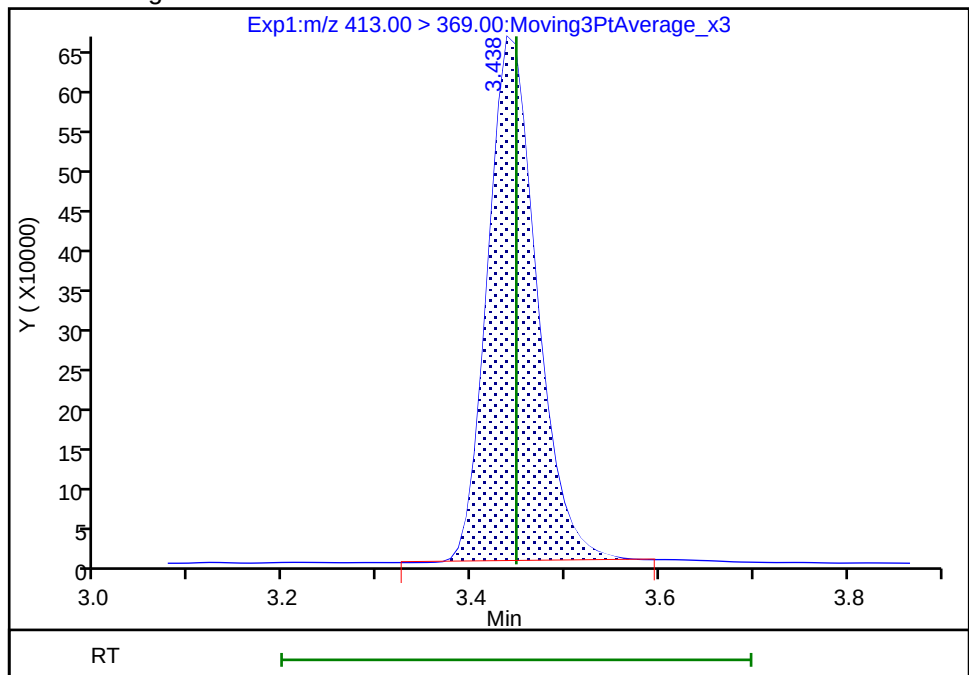
RT: 3.44
Area: 2387138
Amount: 1.032305
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2378896
Amount: 1.028741
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:44:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1137 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

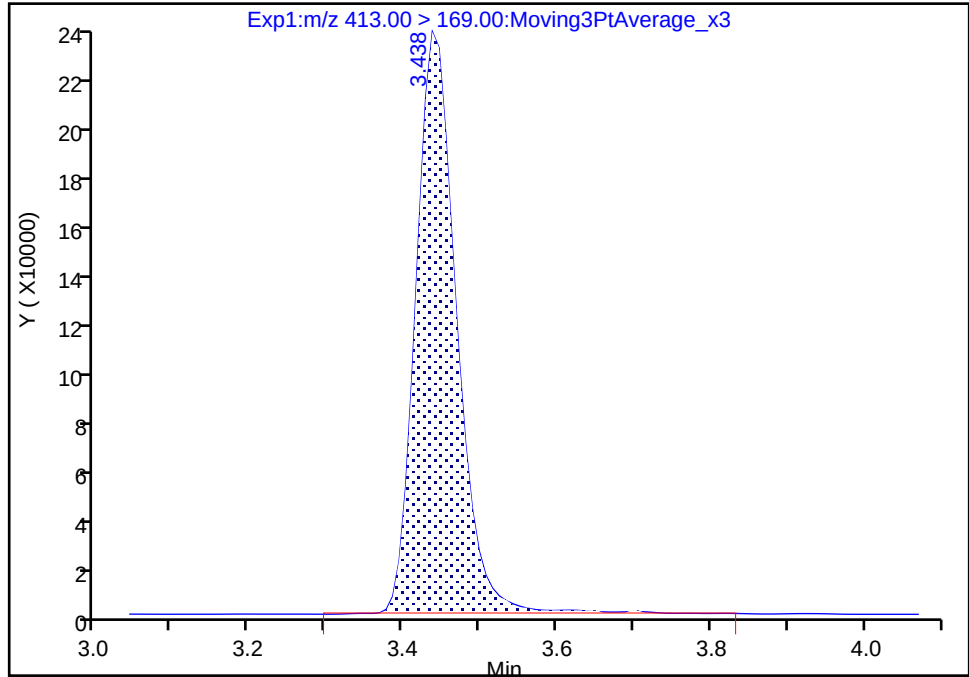
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

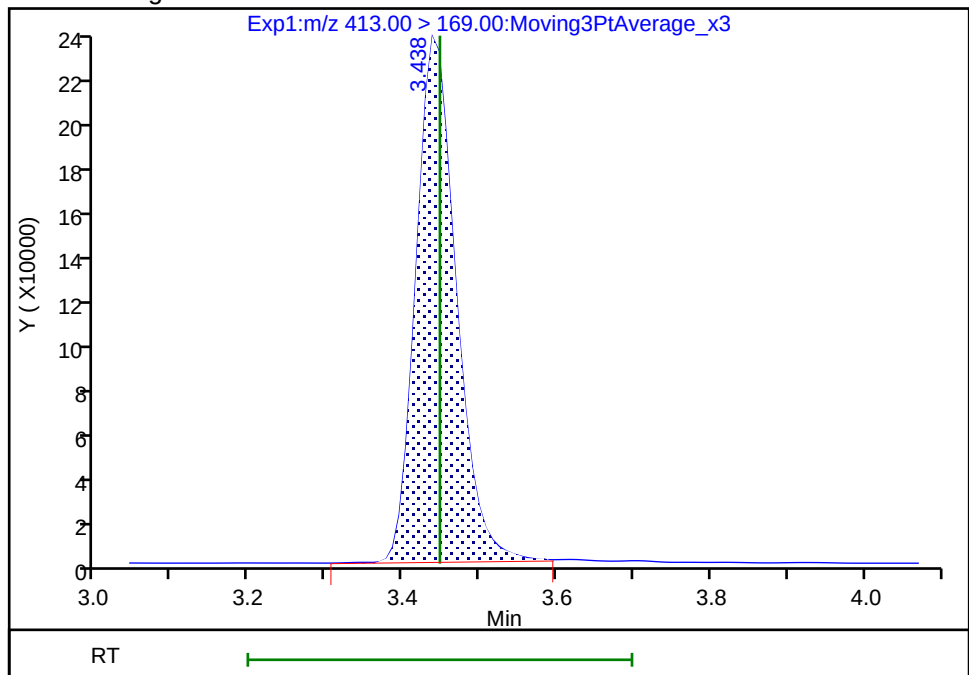
RT: 3.44
Area: 856059
Amount: 1.032305
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 843558
Amount: 1.028741
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:44:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

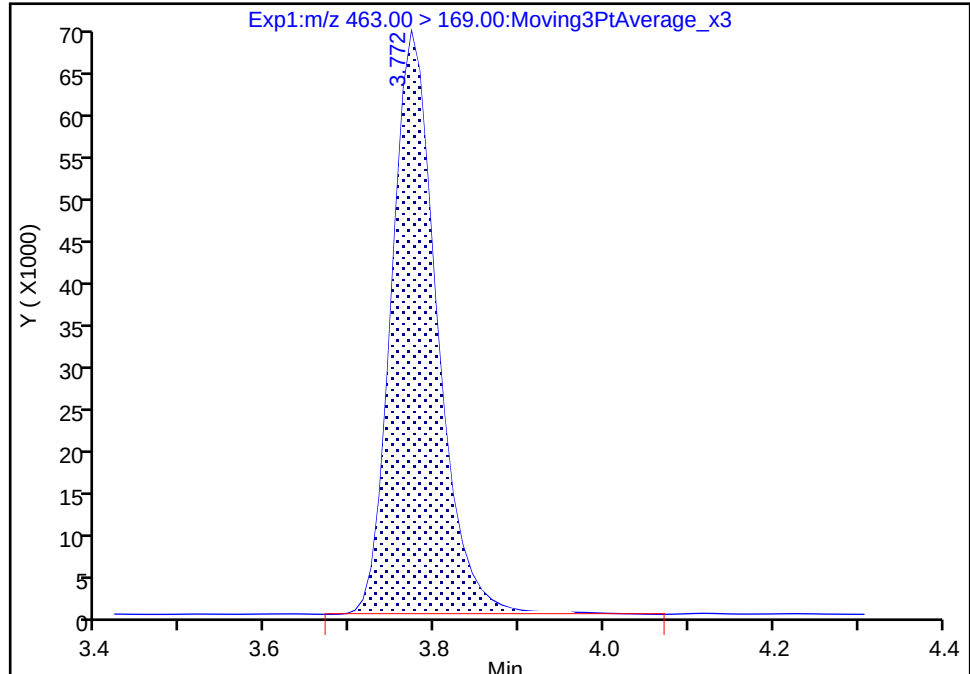
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

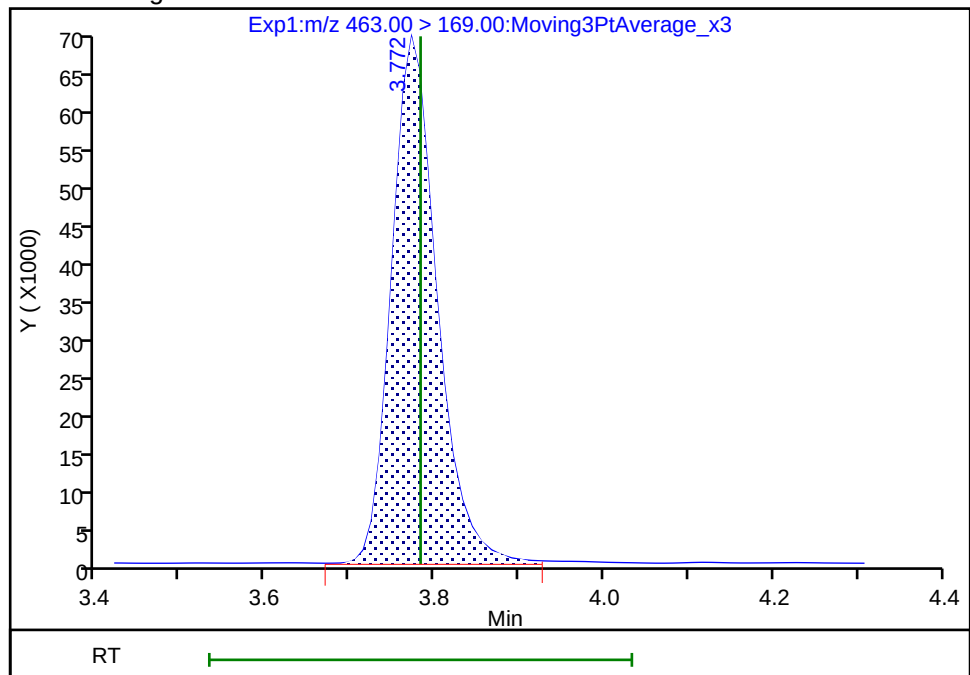
RT: 3.77
Area: 260506
Amount: 1.022395
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 259270
Amount: 1.022395
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:45:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

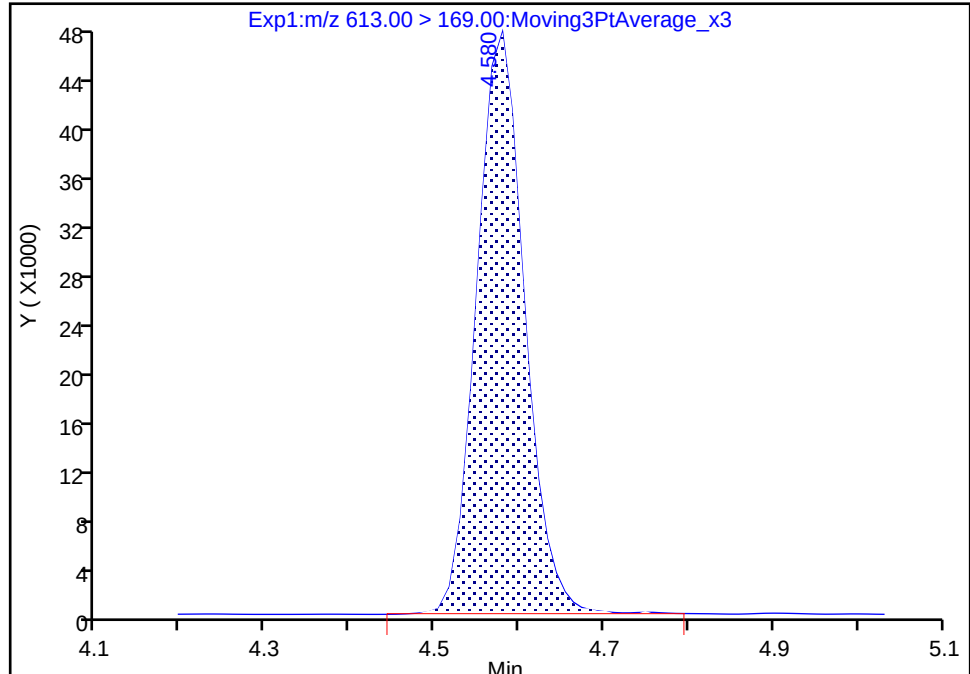
EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

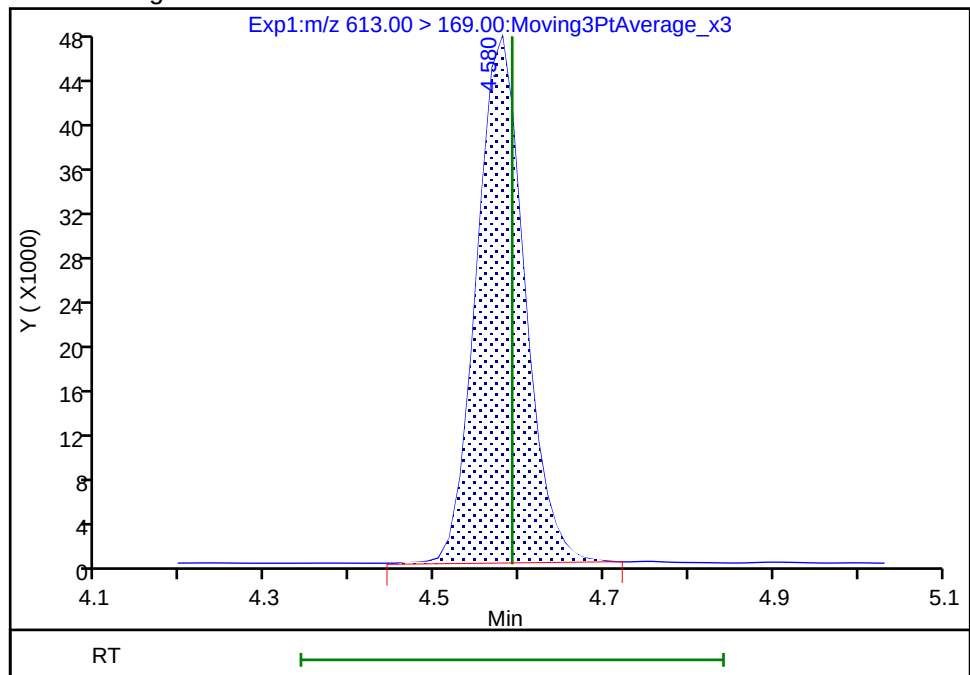
RT: 4.58
Area: 185937
Amount: 0.982875
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 185658
Amount: 0.981477
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:46:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

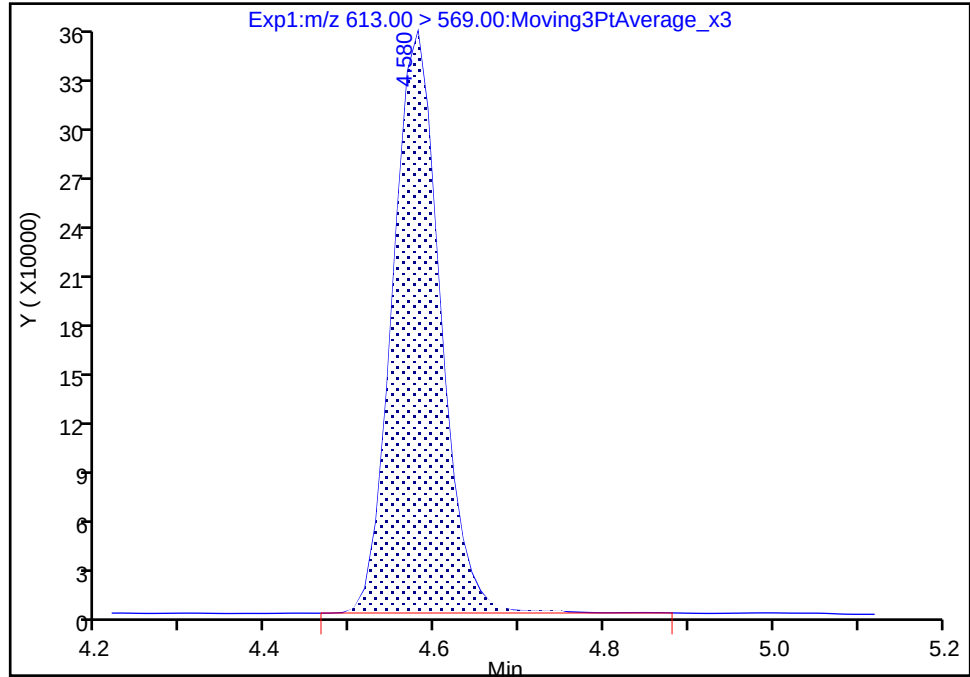
EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

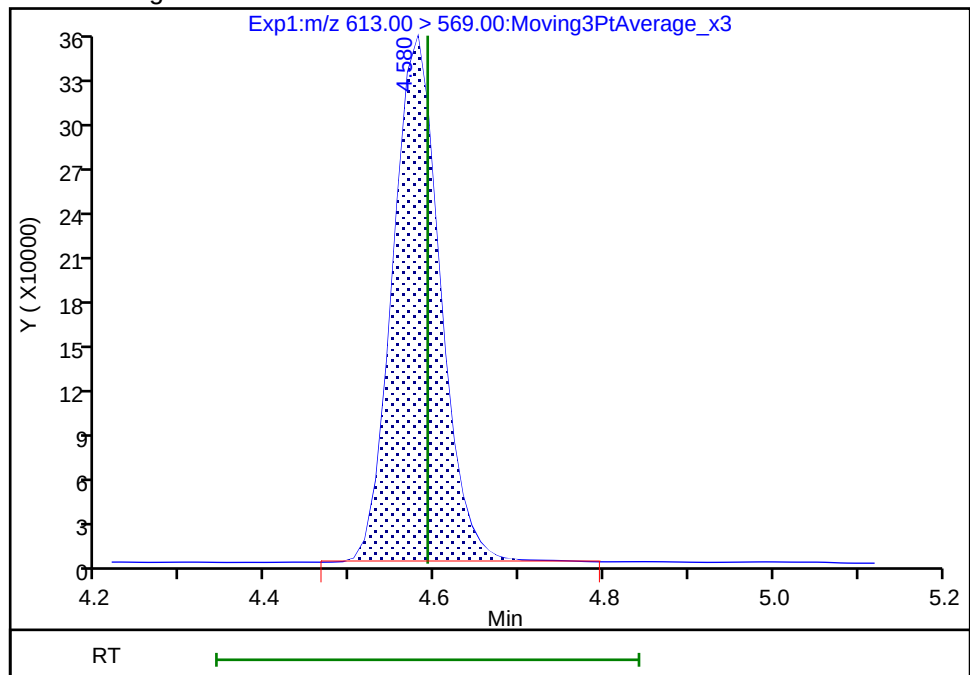
RT: 4.58
Area: 1386192
Amount: 0.982875
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 1384221
Amount: 0.981477
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:46:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

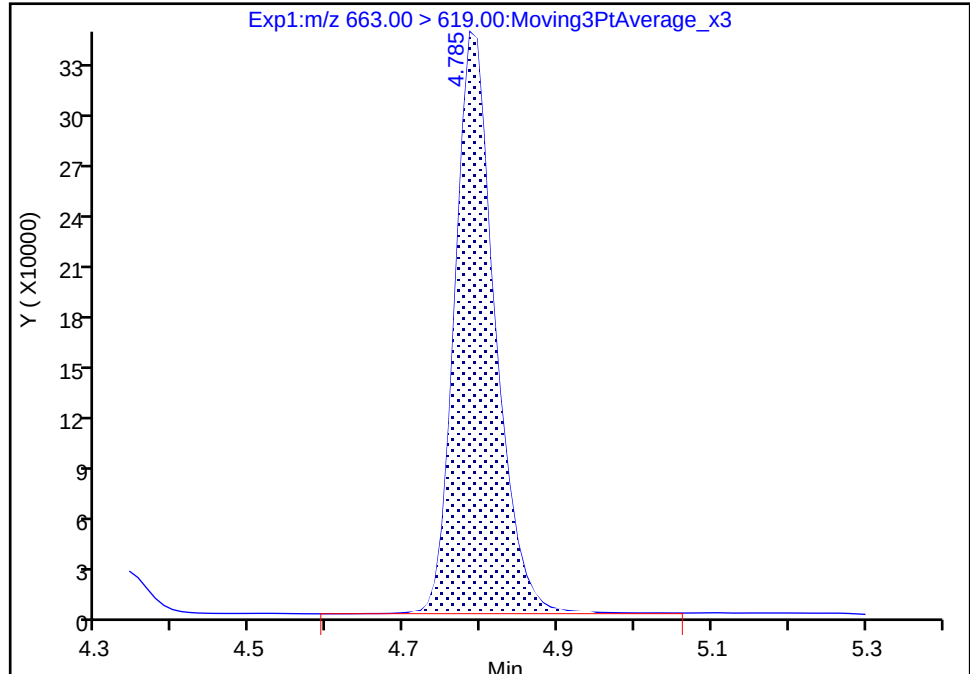
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

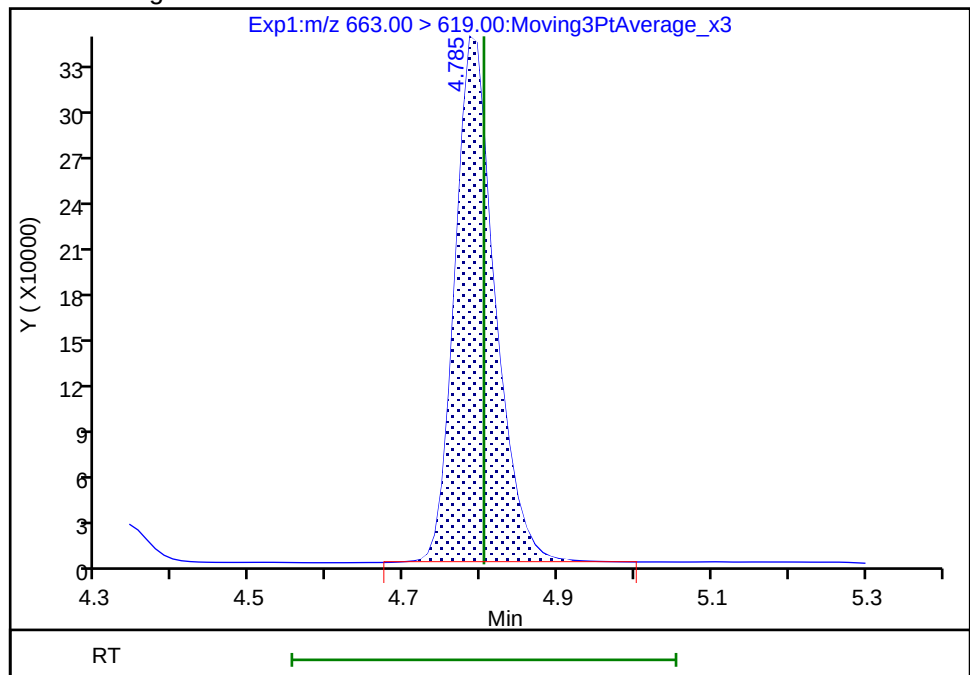
RT: 4.79
Area: 1230819
Amount: 0.912529
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 1227022
Amount: 0.909714
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:46:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

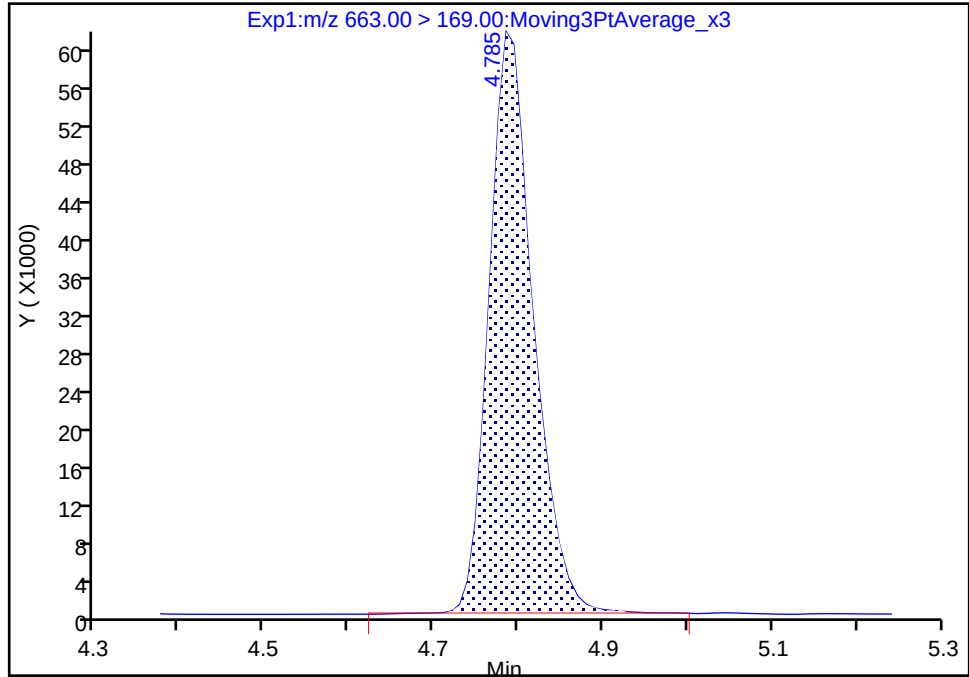
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

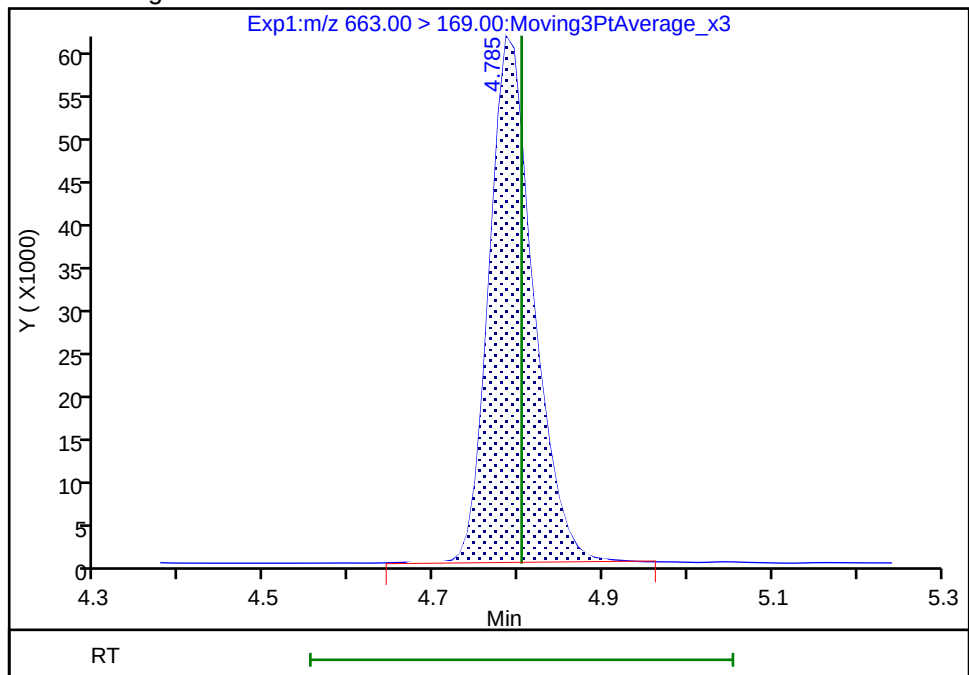
RT: 4.79
Area: 222123
Amount: 0.912529
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 220885
Amount: 0.909714
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:46:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

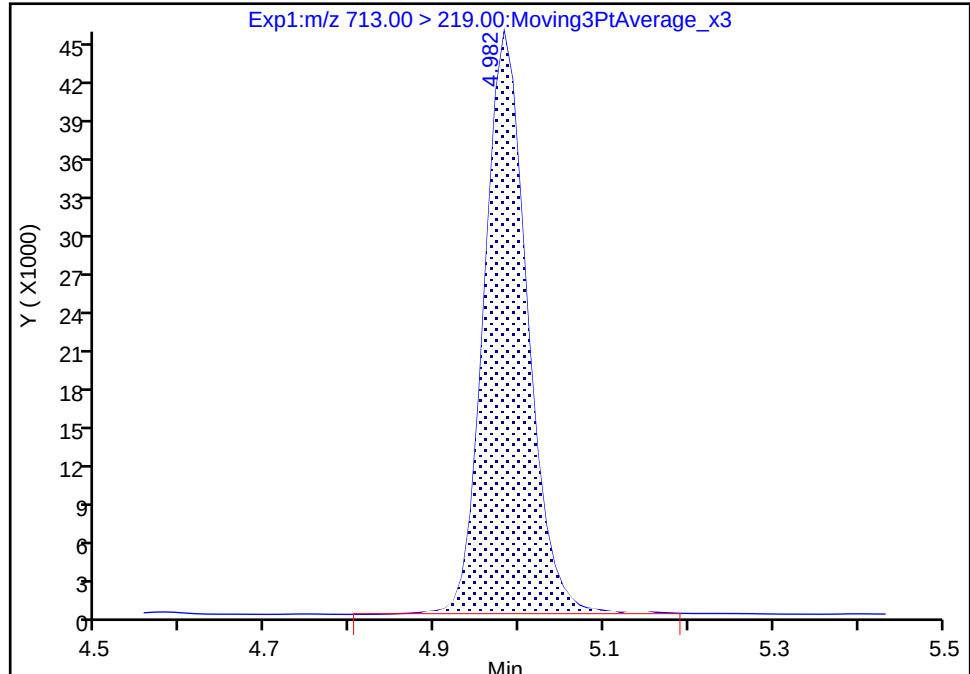
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

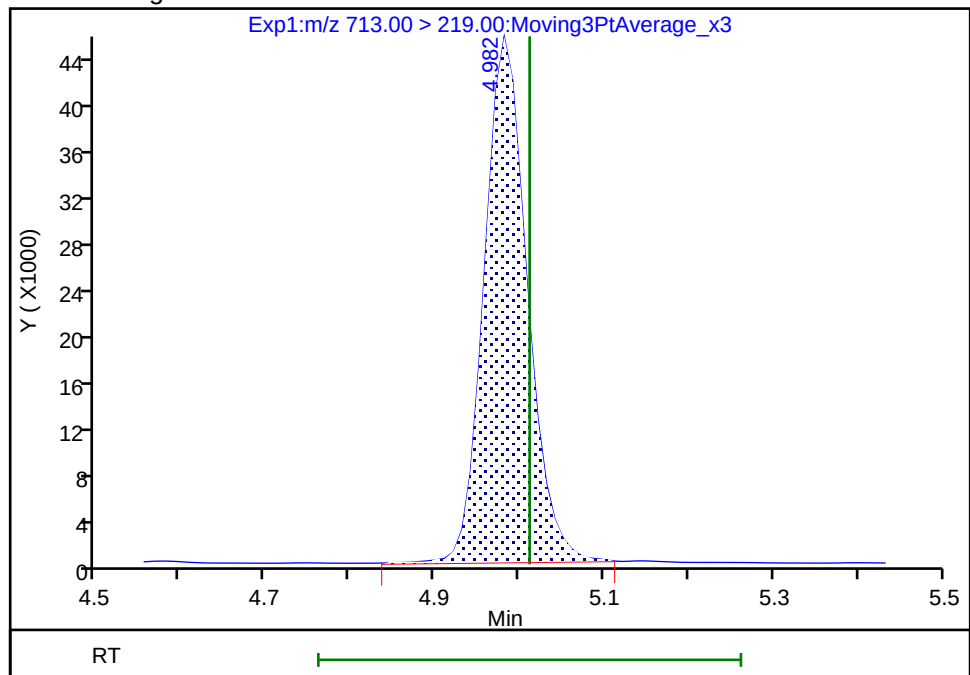
RT: 4.98
Area: 160307
Amount: 0.904902
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 158827
Amount: 0.904902
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:46:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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)

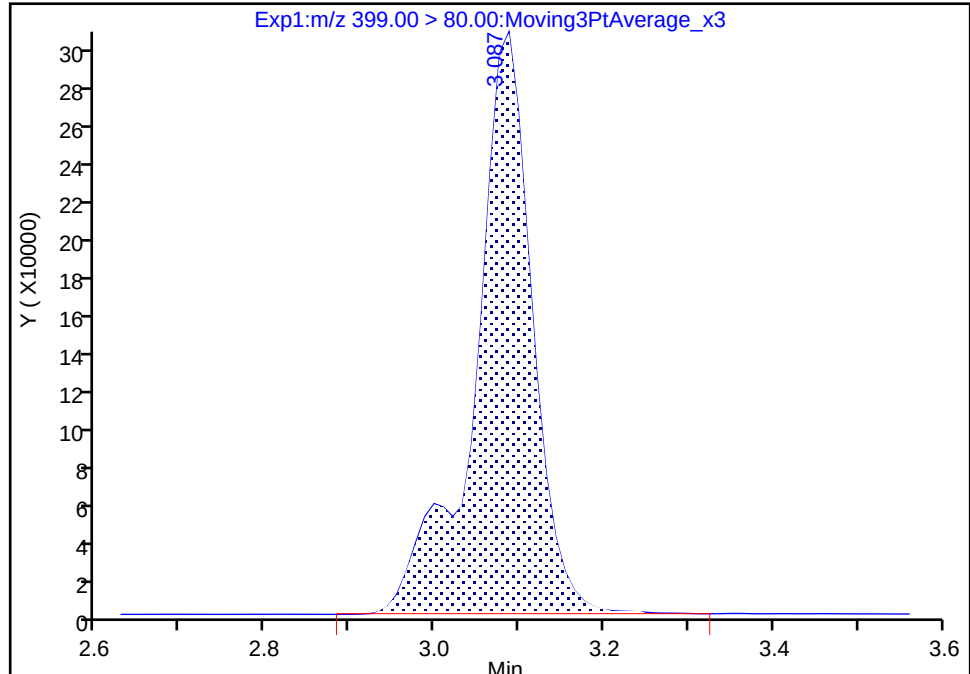
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

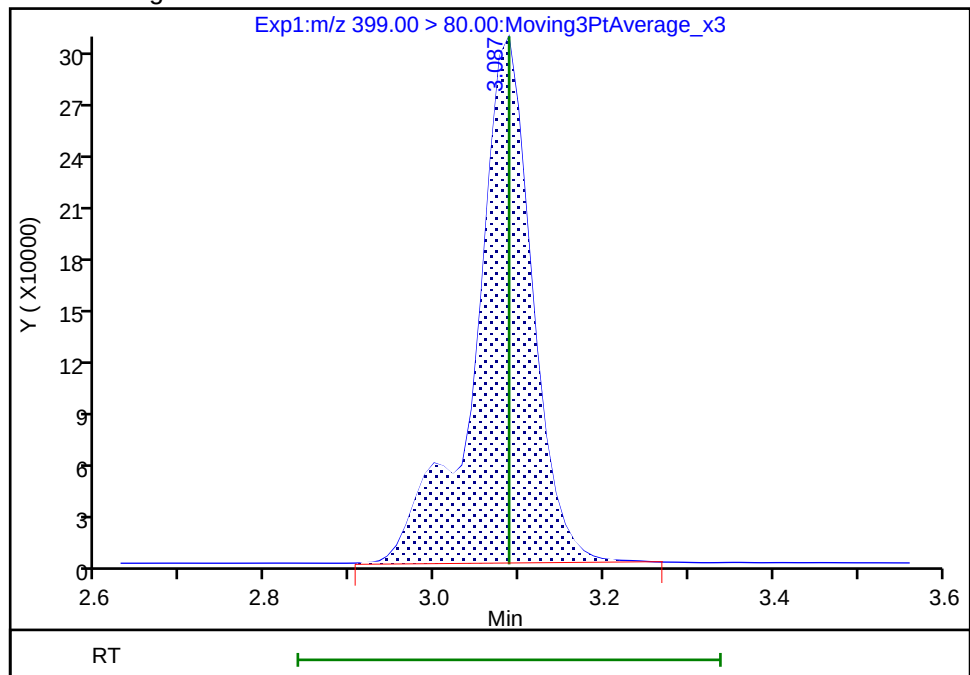
RT: 3.09
Area: 1435533
Amount: 0.920941
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1429729
Amount: 0.917218
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:44:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

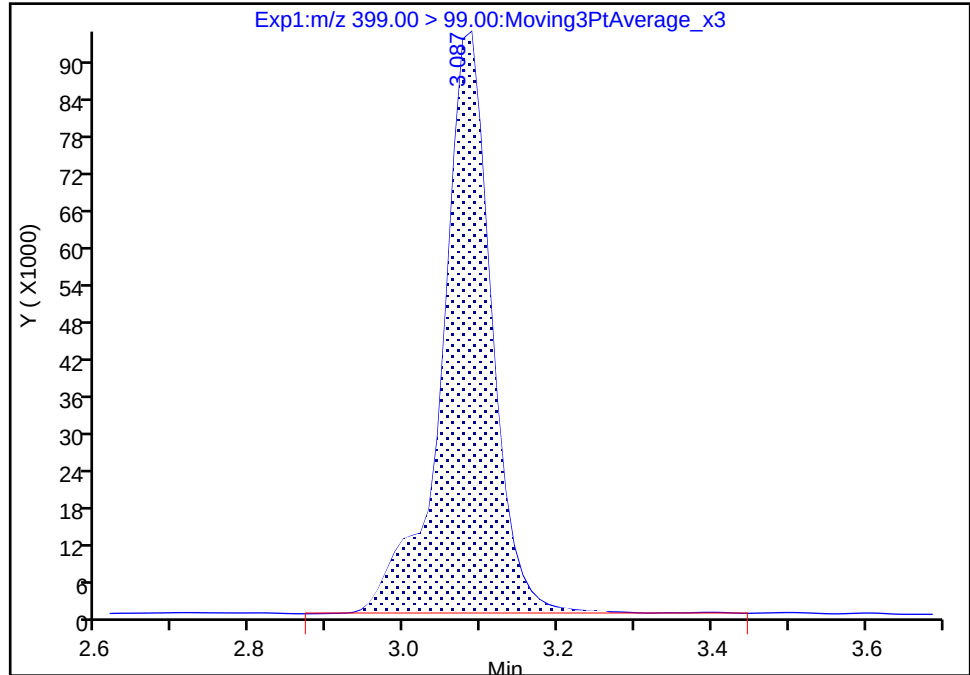
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

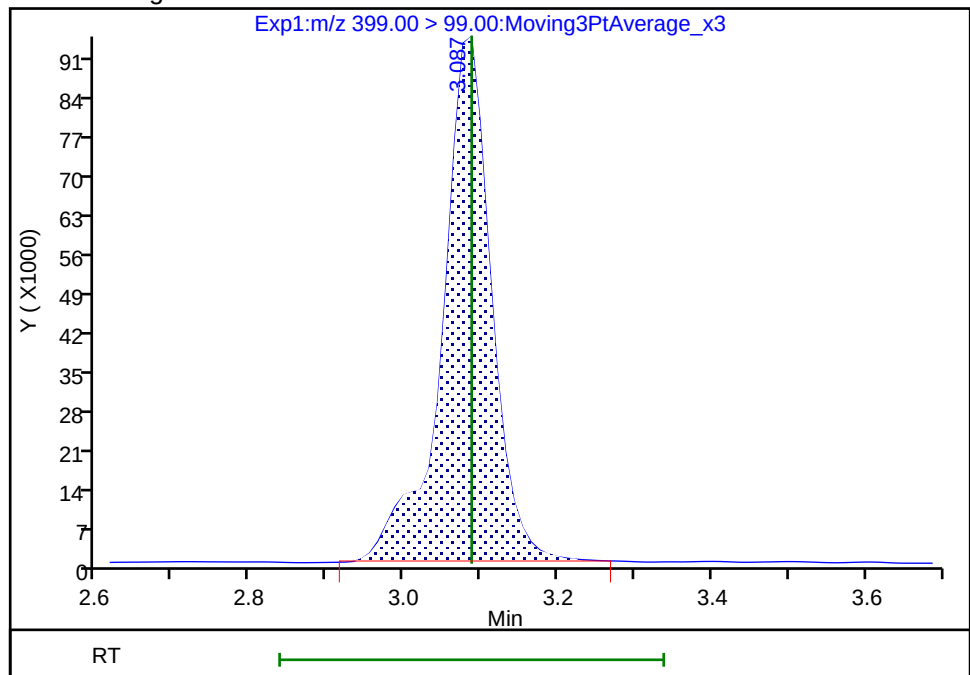
RT: 3.09
Area: 424264
Amount: 0.920941
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 419365
Amount: 0.917218
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:44:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

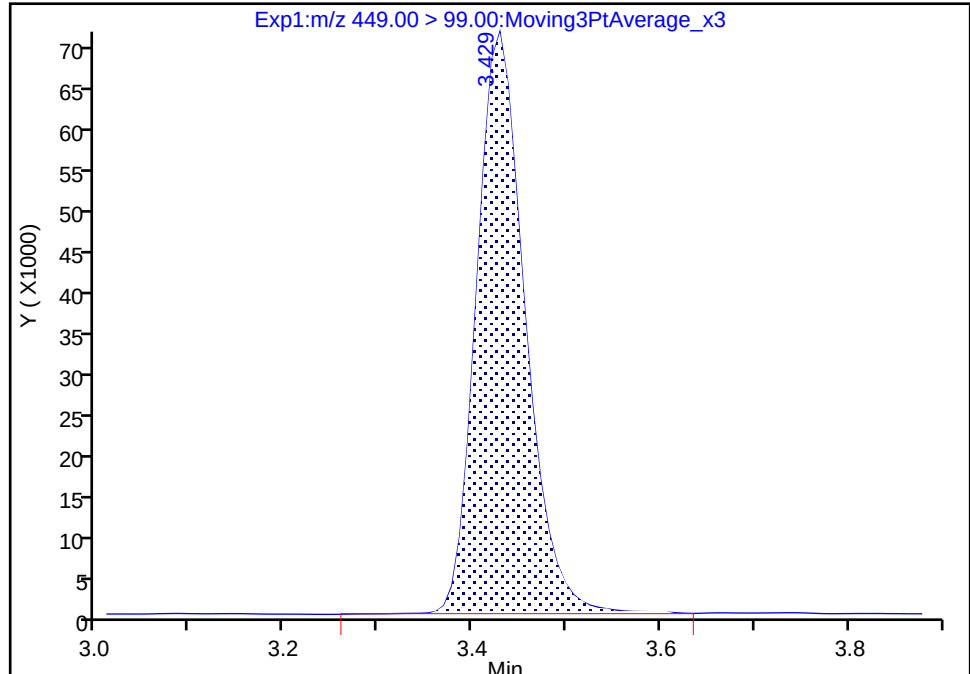
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

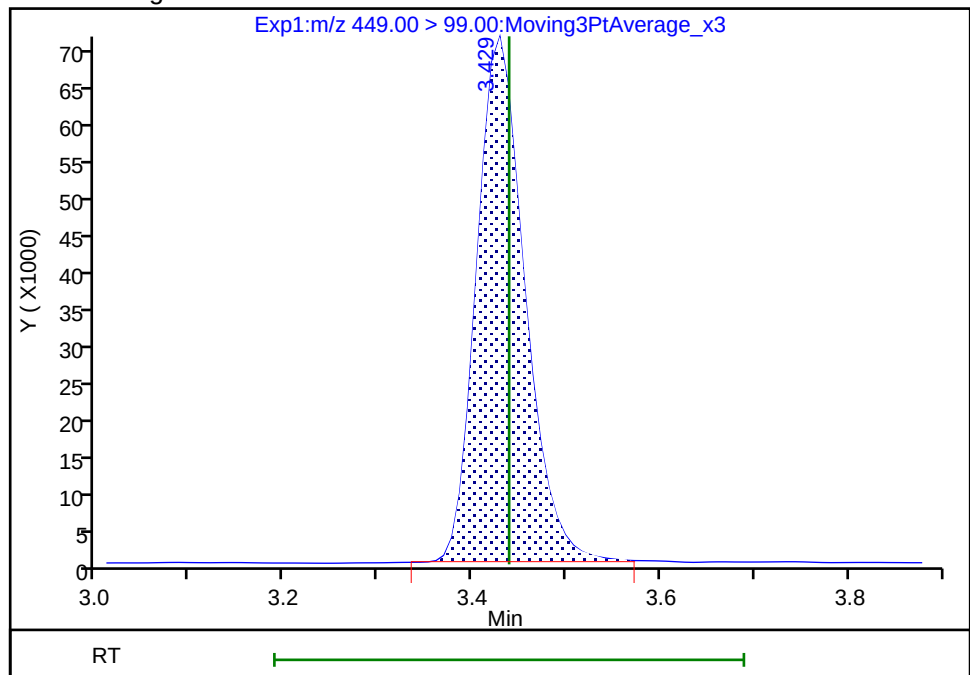
RT: 3.43
Area: 256822
Amount: 0.969341
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 253436
Amount: 0.969341
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:44:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

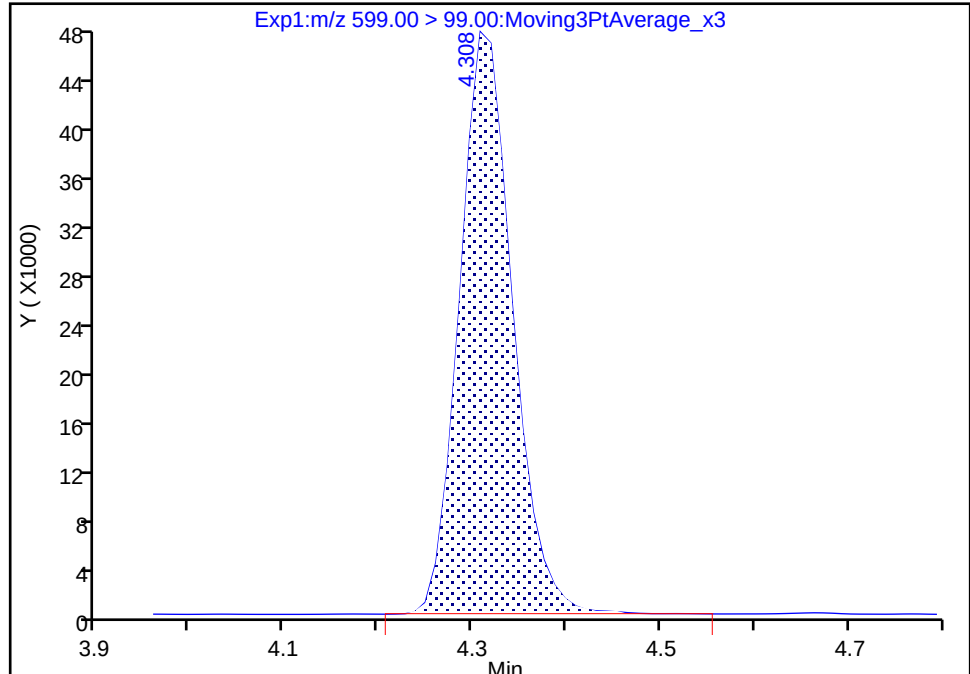
EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

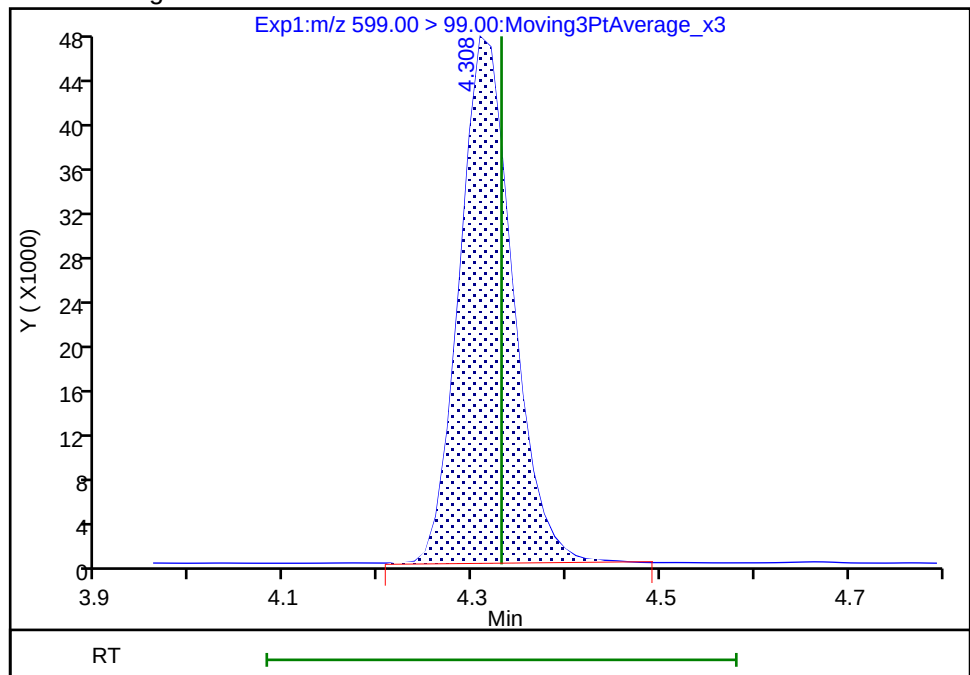
RT: 4.31
Area: 185252
Amount: 0.730034
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 184413
Amount: 0.730034
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:45:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

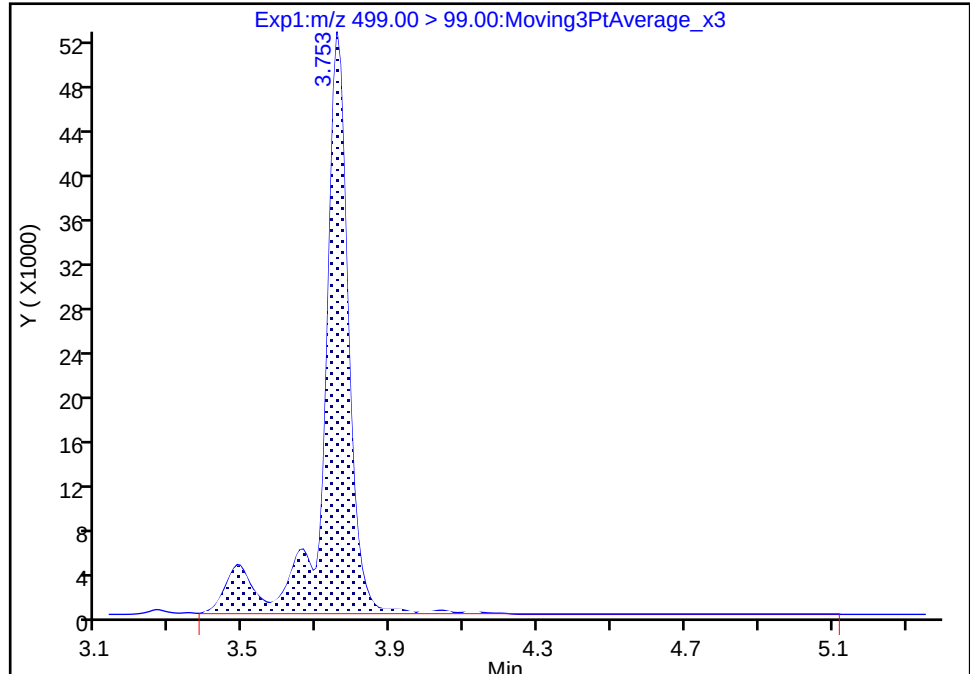
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

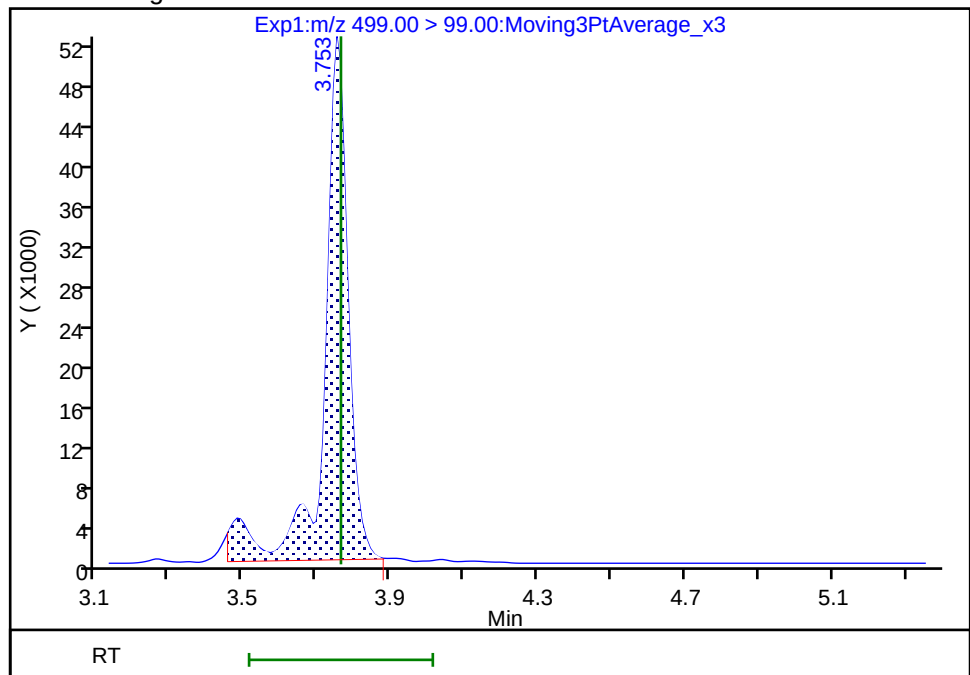
RT: 3.75
Area: 254741
Amount: 0.877248
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 236767
Amount: 0.863319
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:45:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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

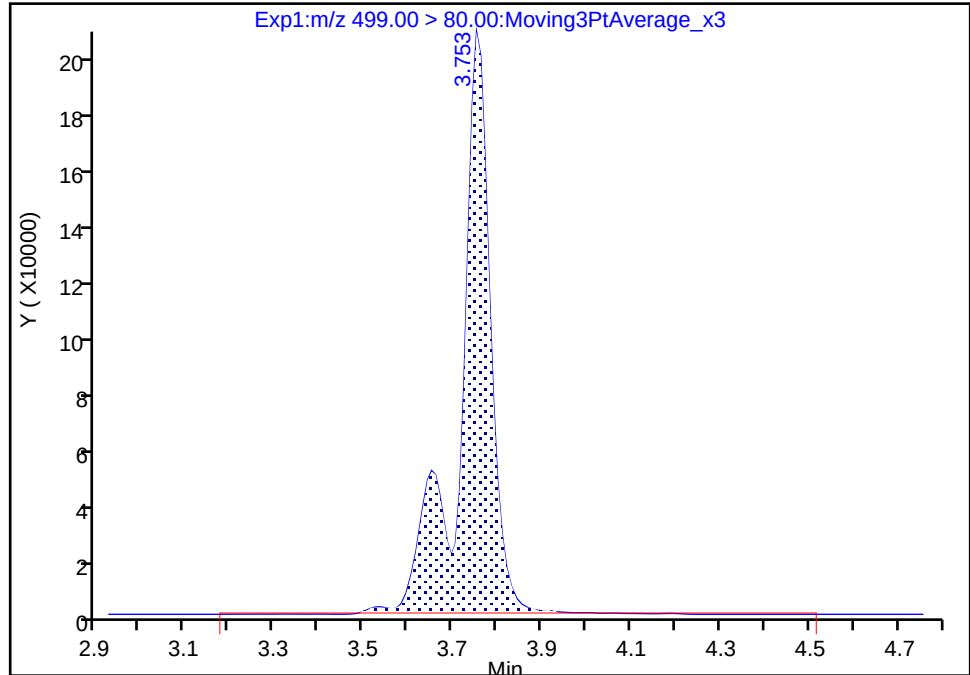
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

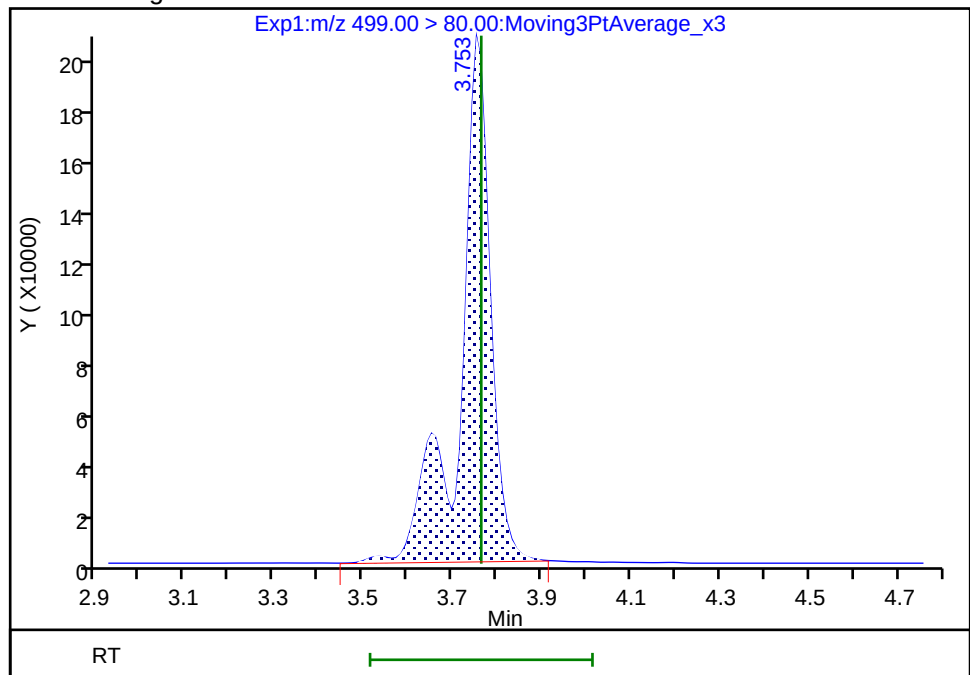
RT: 3.75
Area: 1010770
Amount: 0.877248
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 994721
Amount: 0.863319
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:45:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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)

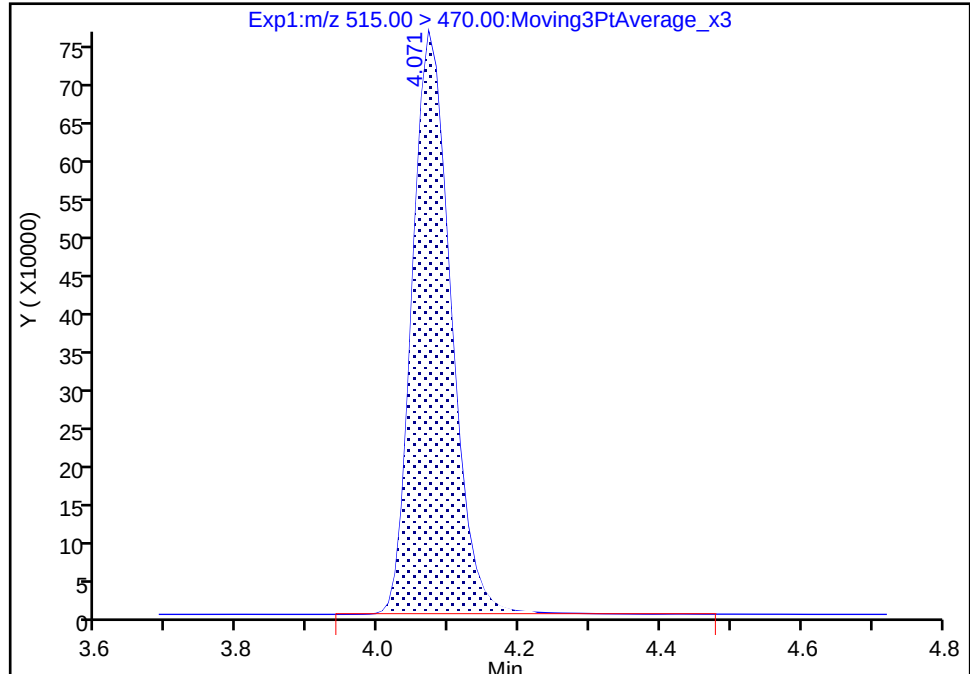
Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

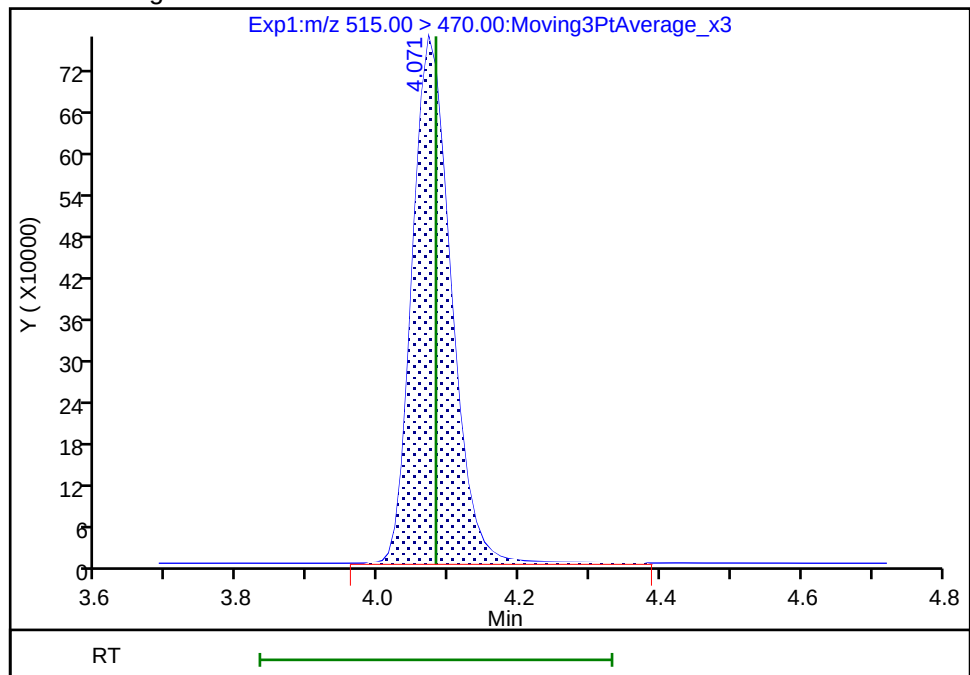
RT: 4.07
Area: 2930664
Amount: 1.318786
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 2928185
Amount: 1.317670
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:43:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

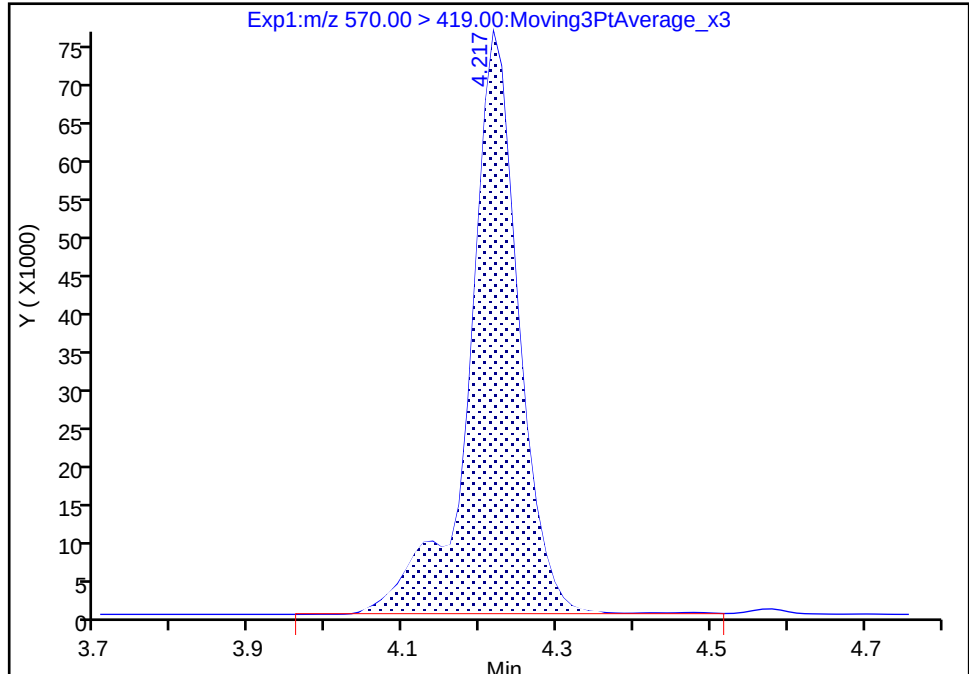
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d
Injection Date: 04-Jan-2023 15:50:53 Instrument ID: LC812
Lims ID: LCS 200-187194/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

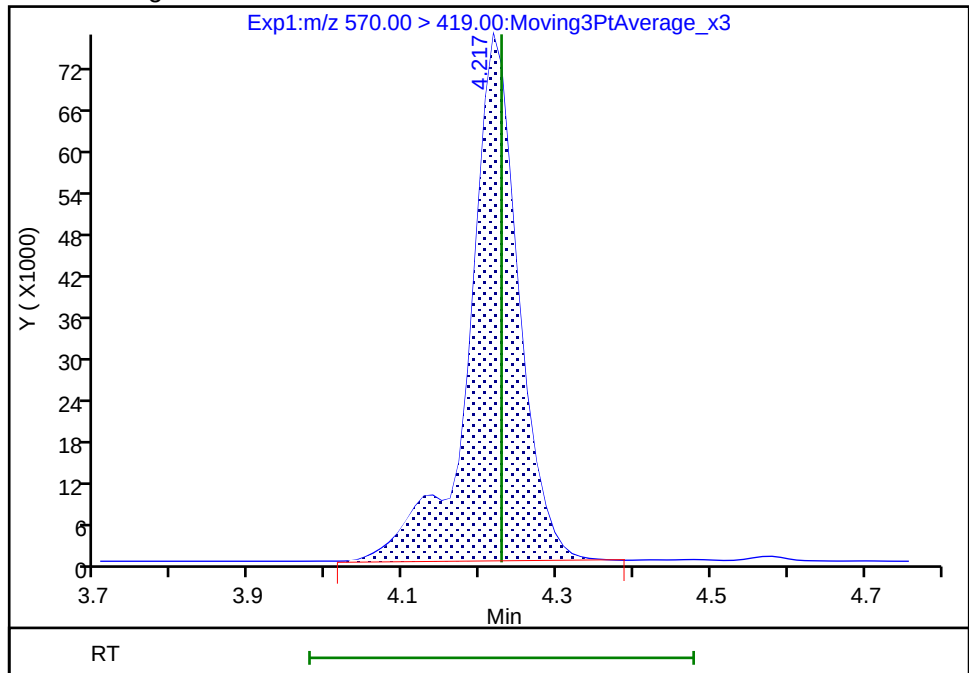
RT: 4.22
Area: 344316
Amount: 1.063455
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 341362
Amount: 1.054231
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:45:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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1/9/2023 1:38
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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)

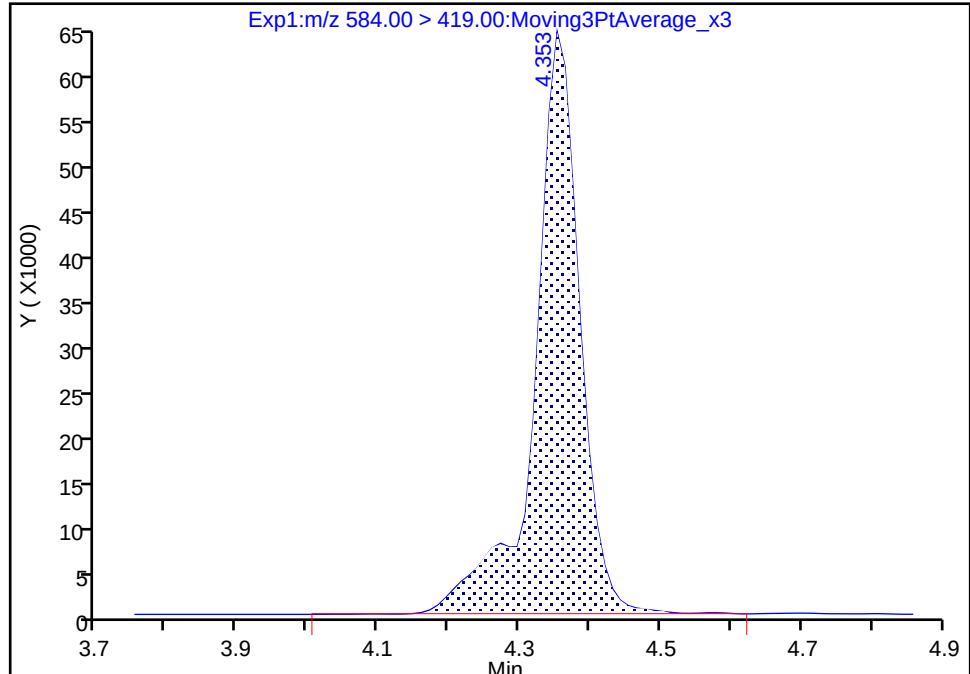
Detector: EXP1

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

Signal: 1

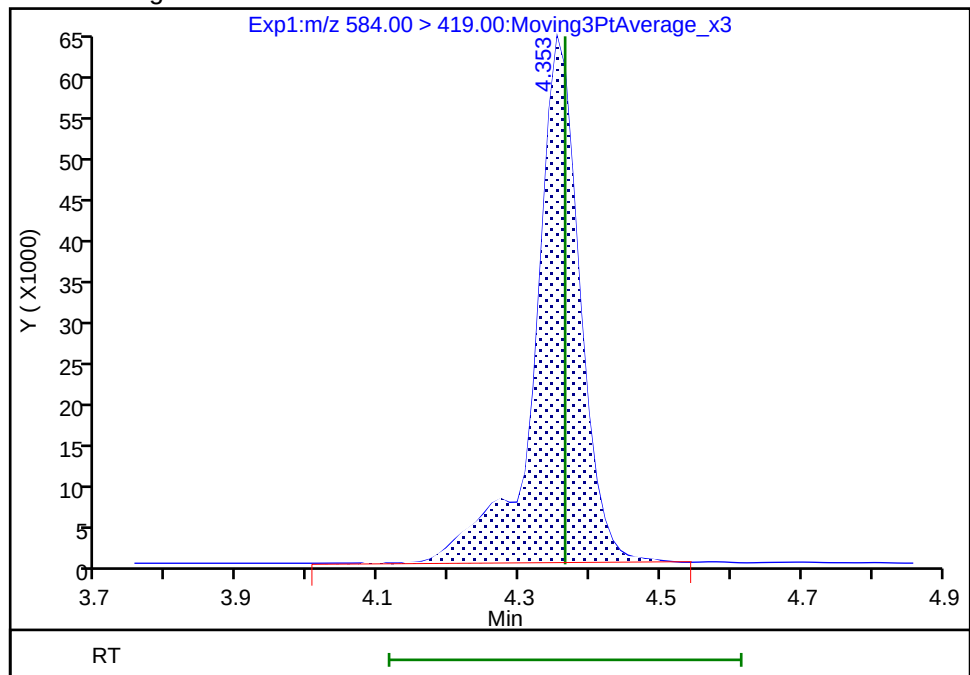
RT: 4.35
Area: 292259
Amount: 1.008847
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 290939
Amount: 1.004290
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:46:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A09.d

Injection Date: 04-Jan-2023 15:50:53

Instrument ID: LC812

Lims ID: LCS 200-187194/2-A

Client ID:

Operator ID: lc812tech

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)

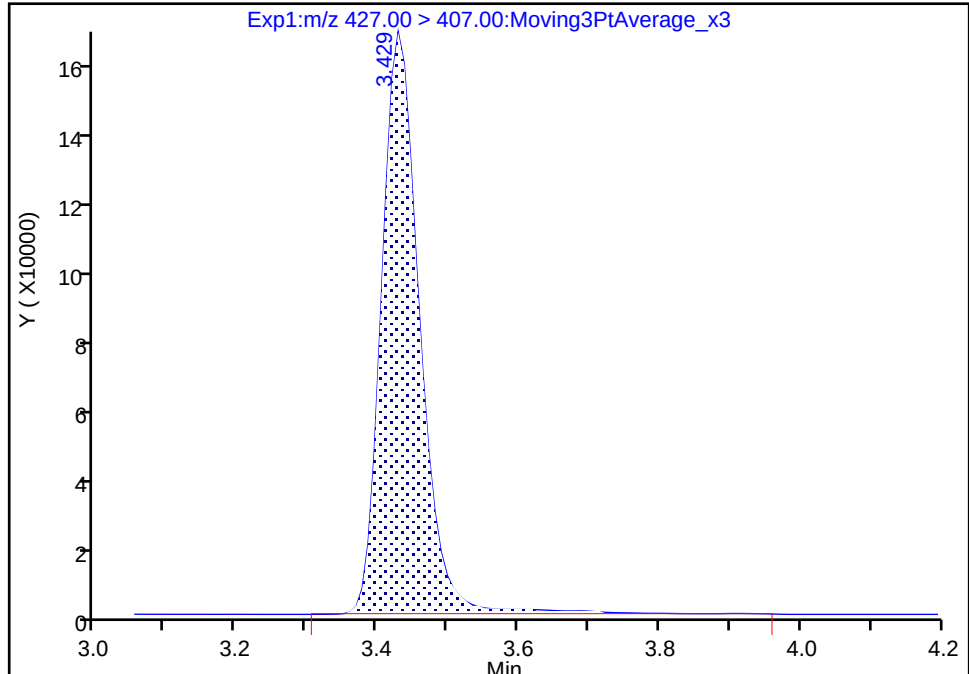
Detector: EXP1

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

Signal: 1

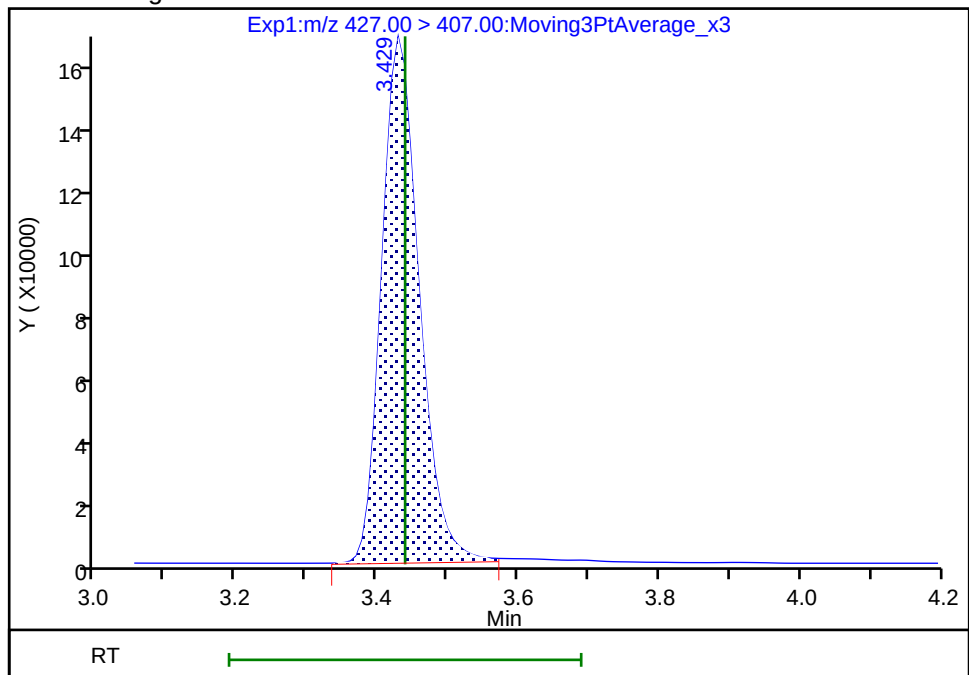
RT: 3.43
Area: 614274
Amount: 1.097332
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 597215
Amount: 1.066528
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:44:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 200-187194/3-A

Matrix: Water Lab File ID: PA230104A10.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 01/03/2023 10:54

Sample wt/vol: 250 (mL) Date Analyzed: 01/04/2023 15:59

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.: 187252 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	41.21		5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	42.10		2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	39.83		2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	43.22		2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	42.02		2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	40.70		2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	42.42		2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	41.74		2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	38.14		2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	36.47		2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	37.70		2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	33.95		2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	37.85		2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	38.14		2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	32.19		2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	34.96		2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	36.51		2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	43.70		5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	41.05		5.00	1.60
27619-97-2	6:2 FTS	44.40		5.00	1.30
39108-34-4	8:2 FTS	45.23		2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 200-187194/3-A

Matrix: Water Lab File ID: PA230104A10.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 01/03/2023 10:54

Sample wt/vol: 250 (mL) Date Analyzed: 01/04/2023 15:59

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.: 187252 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	89		50-150
STL00990	13C4 PFOA	96		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	87		50-150
STL00993	13C2 PFHxA	92		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	90		50-150
STL00994	18O2 PFHxS	93		50-150
STL00998	13C2 PFDoA	77		50-150
STL00991	13C4 PFOS	98		50-150
STL01056	13C8 FOSA	68		50-150
STL01893	13C5 PFPeA	83		50-150
STL02116	13C2 PFTeDA	73		50-150
STL02118	d3-NMeFOSAA	88		50-150
STL02117	d5-NEtFOSAA	79		50-150
STL02279	M2-6:2 FTS	108		50-150
STL02337	13C3 PFBS	91		50-150
STL02280	M2-8:2 FTS	103		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
 Lims ID: LCSD 200-187194/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-Jan-2023 15:59:04 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 200-187194/3-A
 Misc. Info.: 200-0053892-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 05-Jan-2023 08:37:21 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1640

First Level Reviewer: nampitakw

Date: 05-Jan-2023 16:51:12

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	2.076	0.0	0.605	2658412	1.09		87.4	10856	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	2259599	1.03		103	174	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.387	-0.014	0.692	1927293	1.04		83.2	2514	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.387	-0.014	1.000	1768414	1.05		105	37.9	M
D 47 13C3 PFBS										
301.90 > 80.00	2.386	2.400	-0.014	0.696	2124162	1.06		90.8	145781	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.006	1774426	0.8488	Target=2.09	96.0	1507	
298.90 > 99.00	2.400	2.400	0.0	1.006	863117		2.06(1.04-3.13)		385	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	492676	1.02		109	2313	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.784	183163	1.03		88.2	179	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.725	2.725	0.0	0.795	2241561	1.15		92.4	3854	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1945846	1.00	Target=14.25	99.6	305	M
313.00 > 119.00	2.725	2.725	0.0	1.000	144888		13.43(7.12-21.37)		192	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.725	2.737	-0.012	0.886	1768835	0.9708	Target=3.04	103	1346	M
349.00 > 99.00	2.725	2.737	-0.012	0.886	595185		2.97(1.52-4.56)		812	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.822	2.835	-0.013	1.000	345544	1.05		105	784	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	2.822	2.835	-0.013	0.823	390249	1.14		91.1	1437	
D 11 18O2 PFHxS										
403.00 > 84.00	3.076	3.088	-0.012	0.897	1613390	1.10		93.0	4016	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.076	3.088	-0.012	1.000	1457114	0.9462	Target=3.66	104	1291	M
399.00 > 99.00	3.076	3.088	-0.012	1.000	431648		3.38(1.83-5.49)		438	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.076	3.099	-0.023	0.897	2229996	1.12		89.3	3042	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.087	3.099	-0.012	1.004	2098560	1.08	Target=3.97	108	338	M
363.00 > 169.00	3.087	3.099	-0.012	1.004	542751		3.87(1.98-5.95)		728	M
77 DONA										
377.00 > 251.00	3.121	3.132	-0.011	0.833	5049402	0.9401	Target=3.16	99.8	3677	
377.00 > 85.00	3.121	3.132	-0.011	0.833	1590116		3.18(1.58-4.73)		1560	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.421	3.439	-0.018	0.997	313956	1.28		108	765	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.421	3.439	-0.018	1.000	626522	1.11		117	448	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.421	3.439	-0.018	0.914	1298902	0.9535	Target=5.14	100	2438	M
449.00 > 99.00	3.421	3.439	-0.018	0.914	271564		4.78(2.57-7.72)		962	M
D 14 13C4 PFOA										
417.00 > 372.00	3.430	3.448	-0.018	1.000	2681417	1.19		95.5	5032	
* 62 13C2 PFOA										
415.00 > 370.00	3.430	3.448	-0.018		2711362	1.25			3442	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.430	3.448	-0.018	1.000	2408919	1.05	Target=2.79	105	164	M
413.00 > 169.00	3.430	3.448	-0.018	1.000	856804		2.81(1.40-4.19)		785	M
D 18 13C4 PFOS										
503.00 > 80.00	3.745	3.764	-0.020	1.092	1165505	1.17		98.0	3290	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.745	3.764	-0.020	1.000	1036527	0.8739	Target=5.11	94.2	1059	M
499.00 > 99.00	3.745	3.764	-0.020	1.000	231289		4.48(2.55-7.66)		121	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.764	3.783	-0.019	1.000	2278552	1.02	Target=8.55	102	479	
463.00 > 169.00	3.764	3.783	-0.019	1.000	259294		8.79(4.28-12.83)		1571	
D 19 13C5 PFNA										
468.00 > 423.00	3.764	3.783	-0.019	1.097	2698656	1.24		99.0	3381	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.915	3.928	-0.013	1.046	2655715	0.9756		105	5909	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.041	4.050	-0.009	1.079	814773	0.9101	Target=2.53	94.8	3590	
549.00 > 99.00	4.041	4.050	-0.009	1.079	333009		2.45(1.27-3.80)		1717	
D 23 13C2 PFDA										
515.00 > 470.00	4.061	4.081	-0.020	1.184	2796226	1.26		101	3594	

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	4.061	4.081	-0.020	1.000	2572983	1.06	Target=10.26	106	1001	
513.00 > 169.00	4.061	4.081	-0.020	1.000	239481		10.74(5.13-15.38)		721	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.071	4.093	-0.022	1.187	369852	1.23		103	869	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.071	4.093	-0.022	1.000	564679	1.13		118	3259	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.138	4.150	-0.012	1.000	1182145	0.9128		91.3	1368	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.150	-0.012	1.206	1549481	0.8501		68.0	2237	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.207	4.228	-0.021	1.226	495634	1.09		87.6	408	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.217	4.228	-0.011	1.002	376625	1.09		109	683	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.308	4.331	-0.023	1.150	568870	0.8048	Target=2.51	83.5	1476	
599.00 > 99.00	4.308	4.331	-0.023	1.150	213070		2.67(1.25-3.76)		1719	
D 30 13C2 PFUnA										
565.00 > 520.00	4.331	4.353	-0.022	1.263	2288092	1.12		89.9	3902	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.353	-0.011	1.003	1924920	1.04	Target=9.88	104	856	
563.00 > 169.00	4.331	4.353	-0.022	1.000	193162		9.97(4.94-14.82)		1247	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.353	4.365	-0.012	1.003	324717	1.03		103	1369	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.342	4.365	-0.023	1.266	441808	0.99		79.3	806	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.432	4.454	-0.022	1.184	3105983	0.7402		78.6	4858	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.003	1616866	0.9534	Target=7.77	95.3	163	
613.00 > 169.00	4.580	4.591	-0.011	1.003	216704		7.46(3.89-11.66)		1794	
D 36 13C2 PFDaA										
615.00 > 570.00	4.567	4.591	-0.024	1.332	2000824	0.9647		77.2	3632	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.591	4.612	-0.021	1.128	234102	0.7801		80.9	1445	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.749	4.776	-0.027	1.268	190775	0.6379	Target=0.50	65.9	1289	M
699.00 > 99.00	4.749	4.776	-0.027	1.268	372810		0.51(0.25-0.76)		3469	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.785	4.804	-0.019	1.048	1478684	0.9117	Target=5.21	91.2	137	M
663.00 > 169.00	4.785	4.804	-0.019	1.048	247457		5.98(2.60-7.81)		1080	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.982	5.012	-0.030	1.000	169310	0.9425	Target=0.89	94.2	1052	
713.00 > 219.00	4.982	5.012	-0.030	1.000	178468		0.95(0.44-1.33)		1217	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.982	5.012	-0.030	1.452	1640249	0.9143		73.1	4439	

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	5.344	5.367	-0.023	1.002	1722850	1.06	Target=5.65	106	191	
813.00 > 169.00	5.333	5.367	-0.034	1.000	274695		6.27(2.82-8.47)		1702	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.333	5.367	-0.034	1.555	2171577	0.9792		78.3	3042	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.677	5.722	-0.045	1.064	1753453	1.23	Target=6.24	123	216	M
913.00 > 169.00	5.677	5.722	-0.045	1.064	246105		7.12(3.12-9.36)		536	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d

Injection Date: 04-Jan-2023 15:59:04

Instrument ID: LC812

Lims ID: LCSD 200-187194/3-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

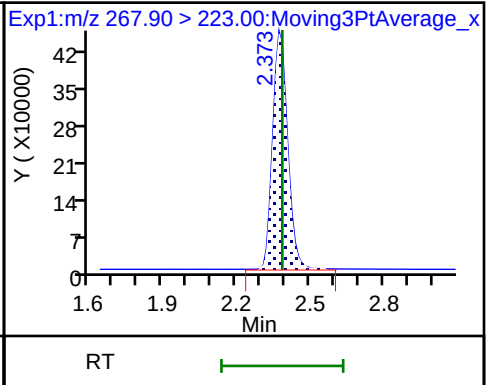
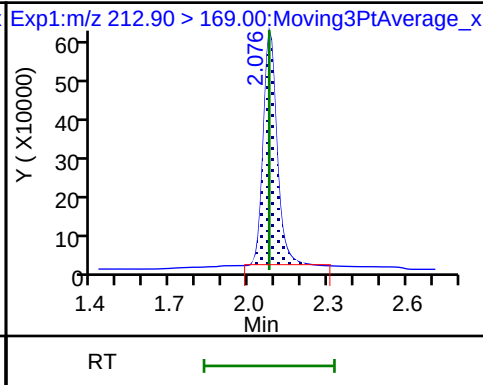
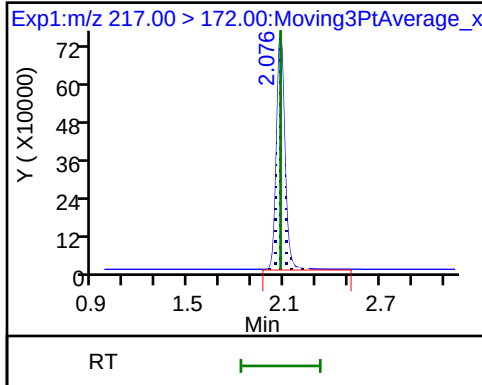
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

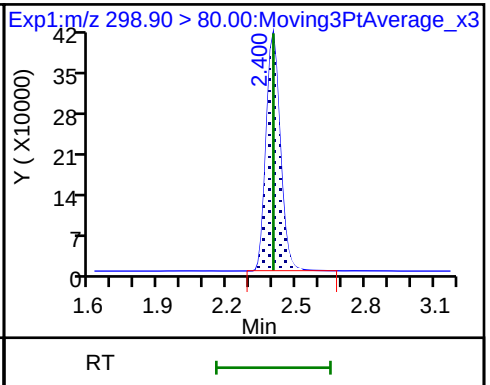
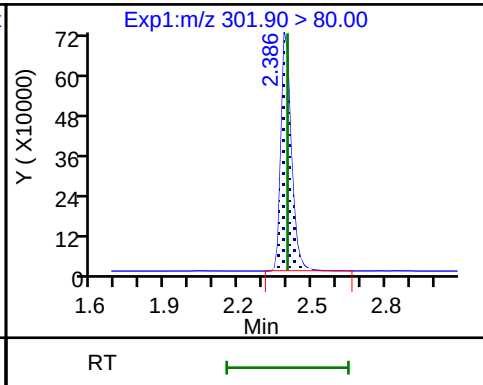
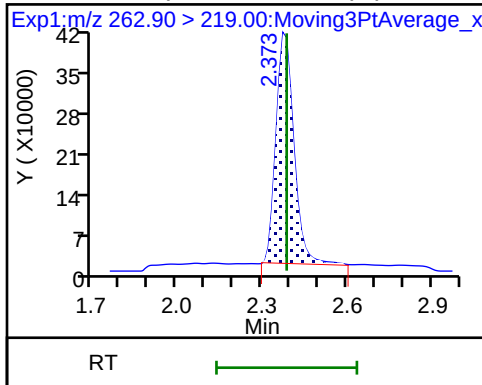
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

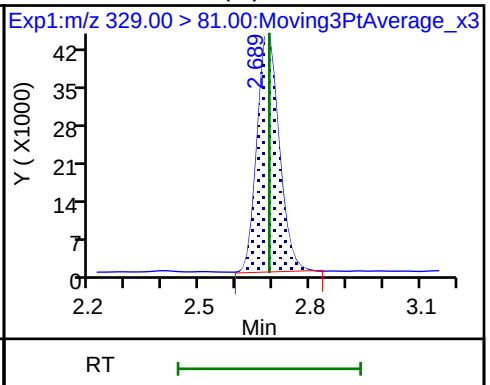
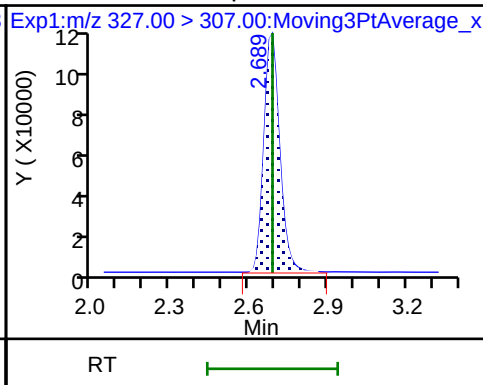
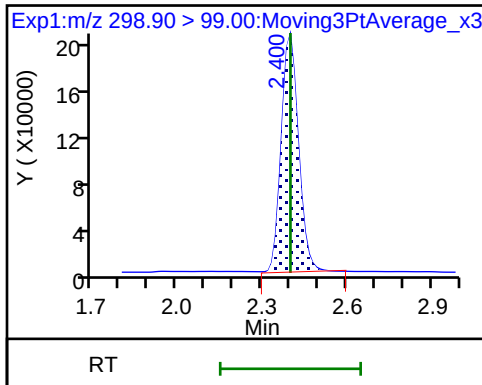
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

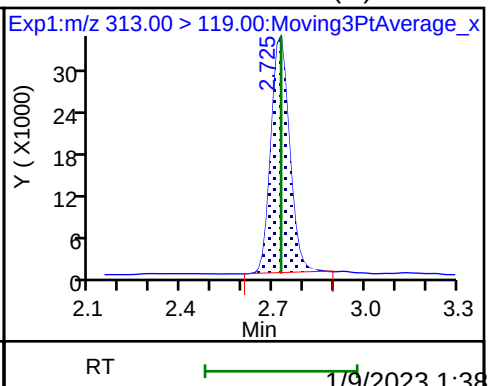
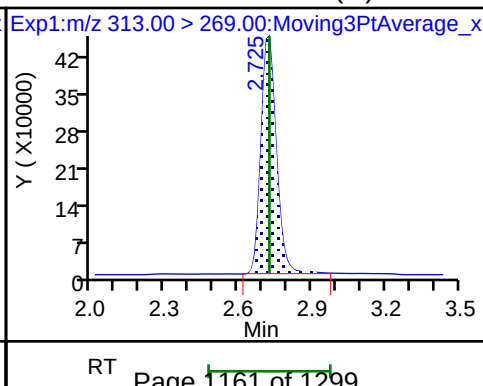
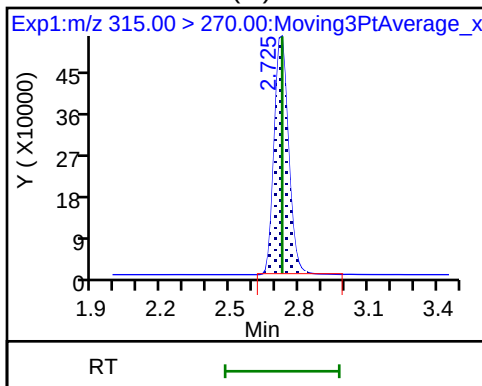
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

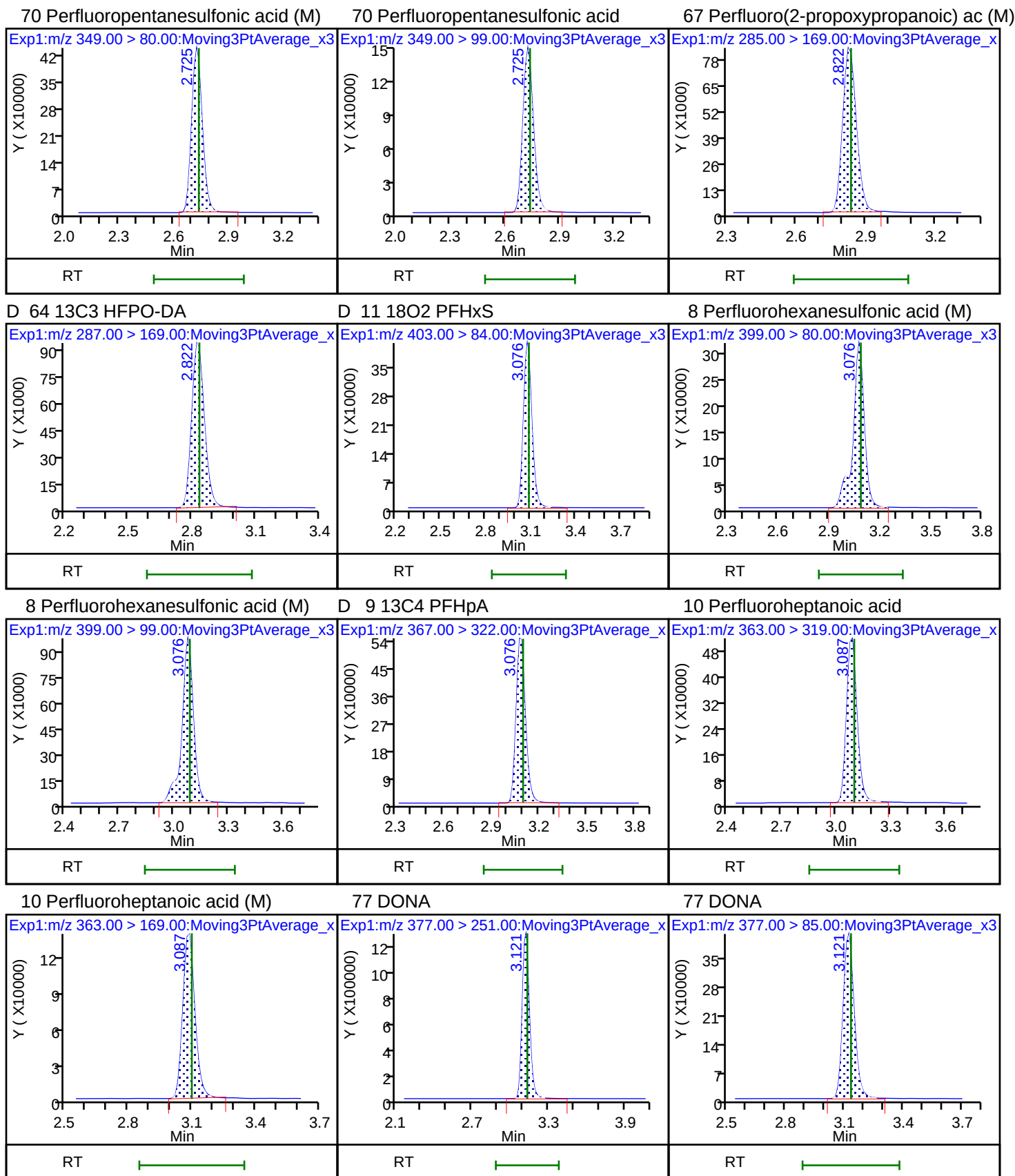


D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

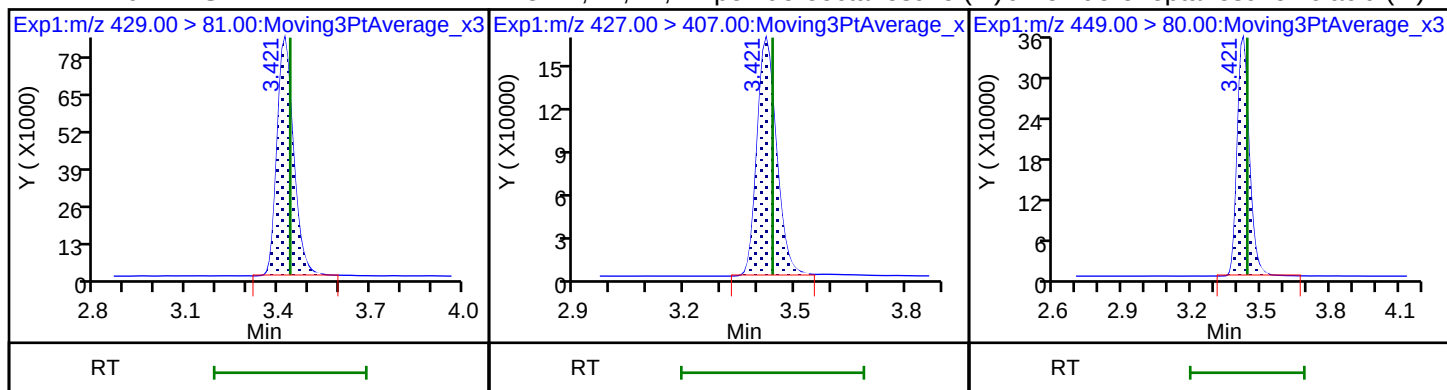
6 Perfluorohexanoic acid (M)





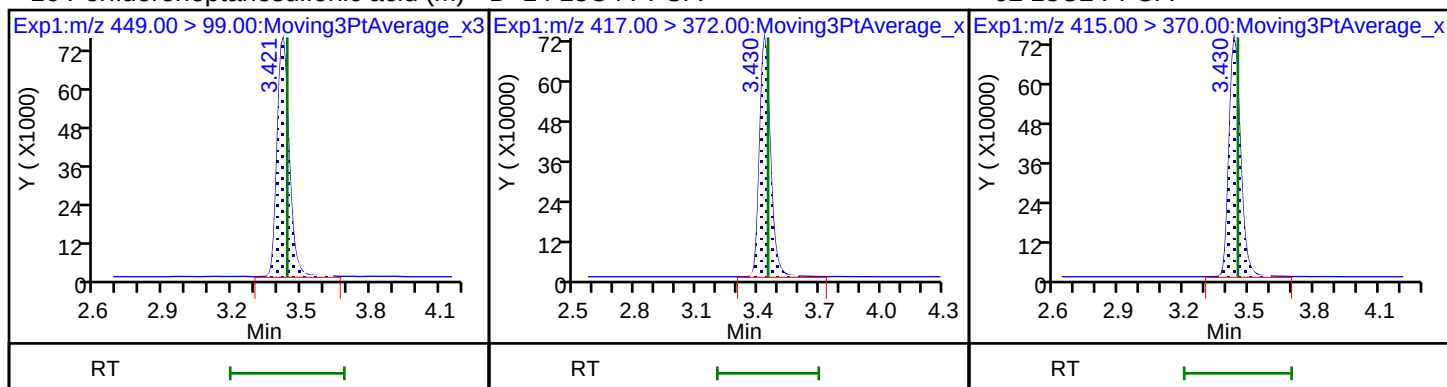
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

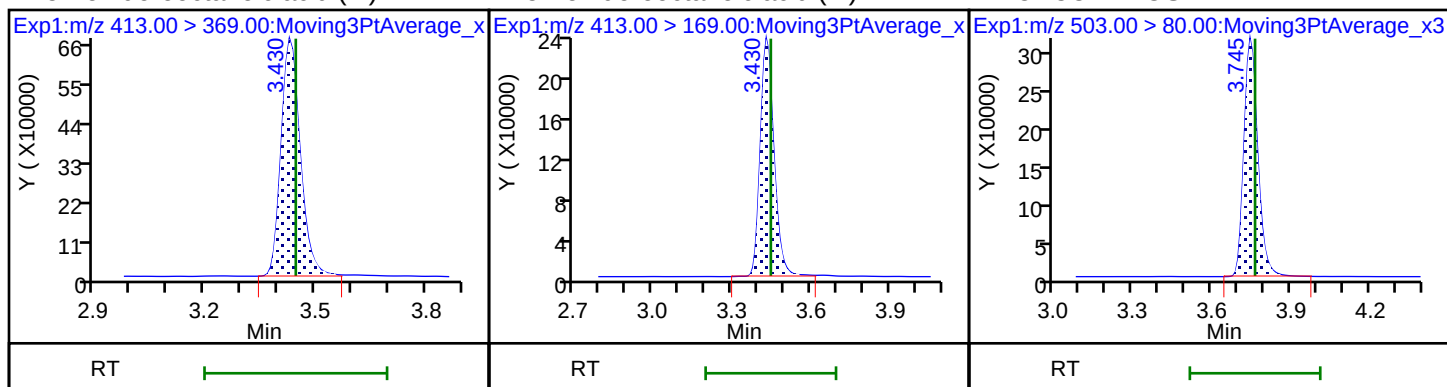
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

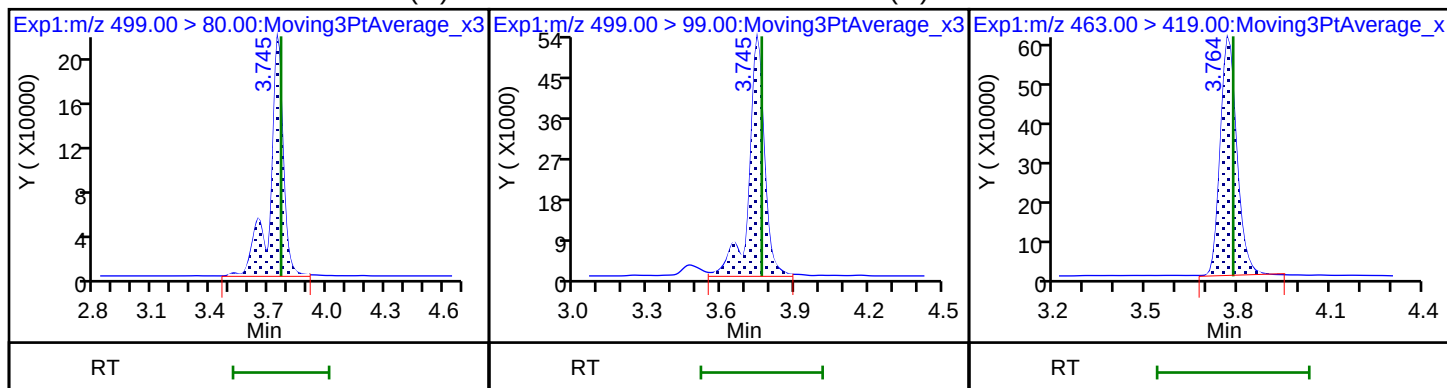
D 18 13C4 PFOS

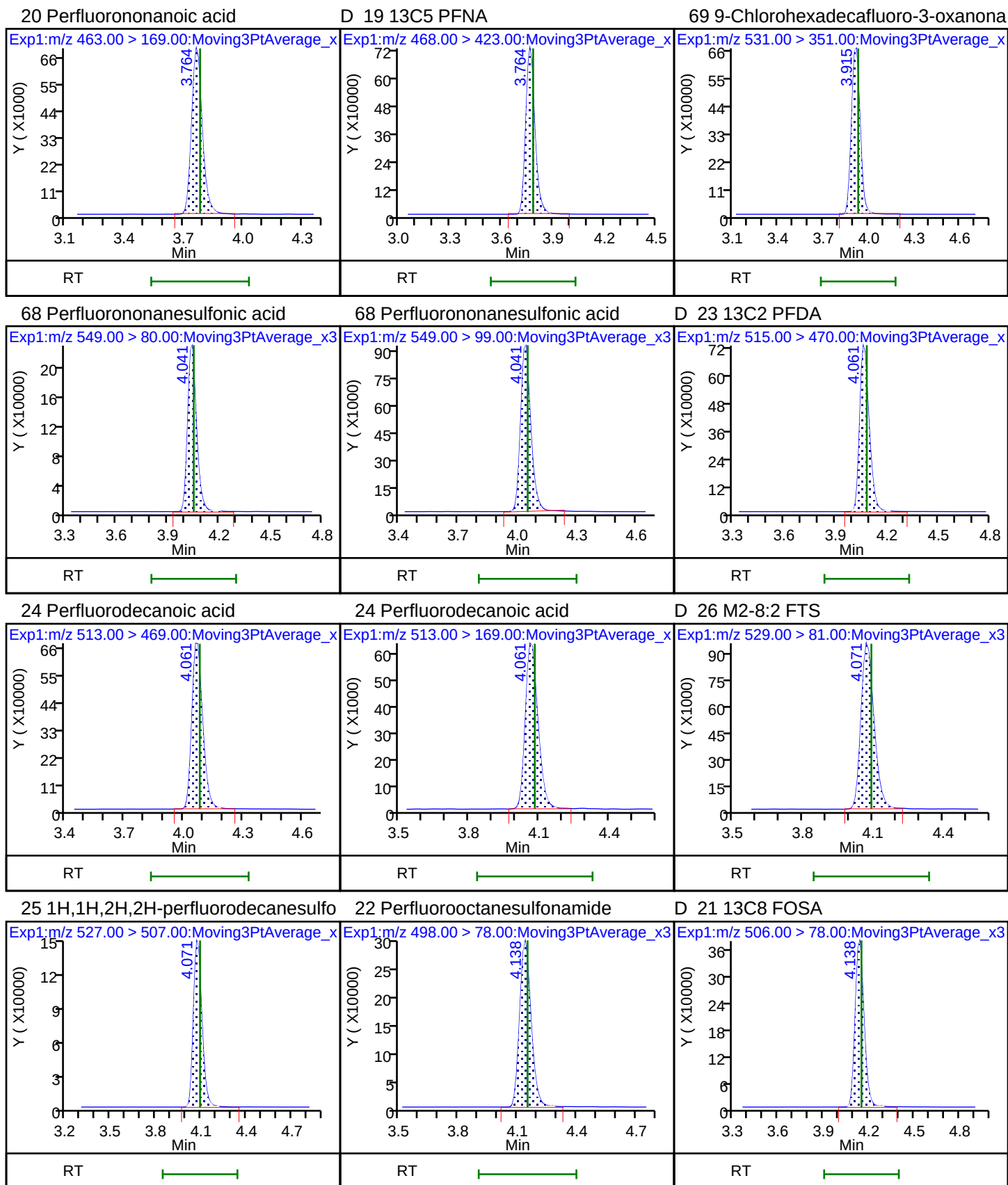


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

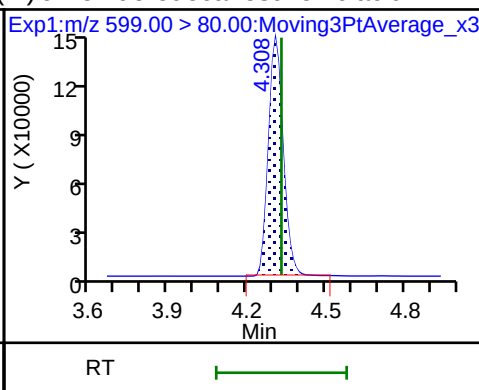
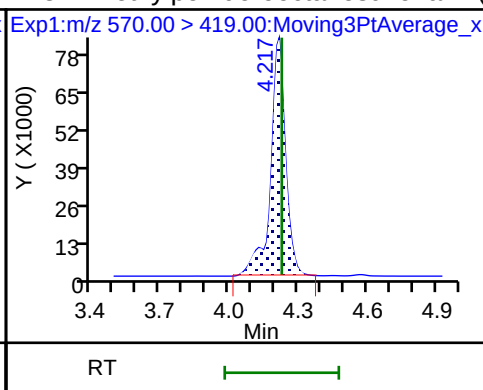
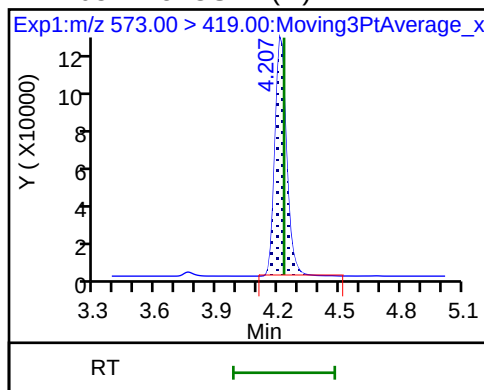




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

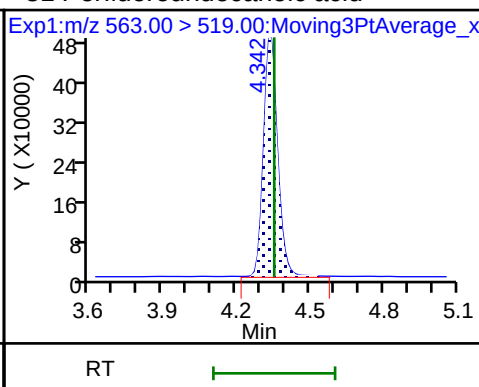
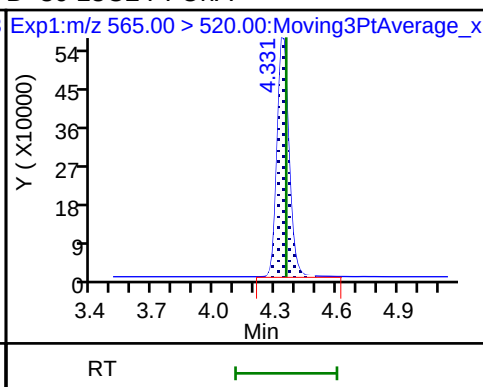
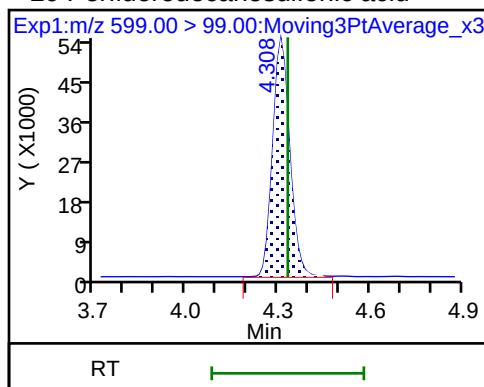
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

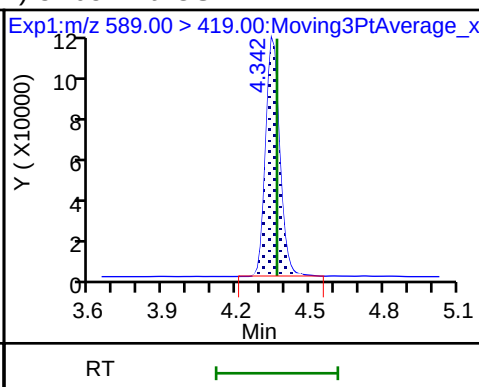
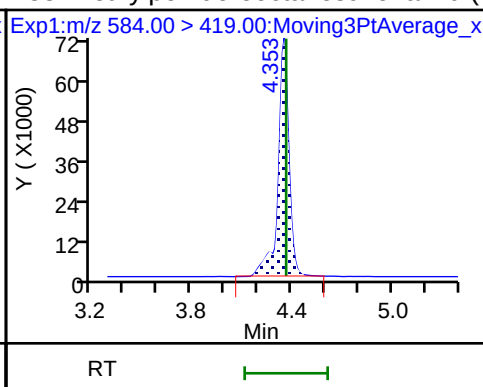
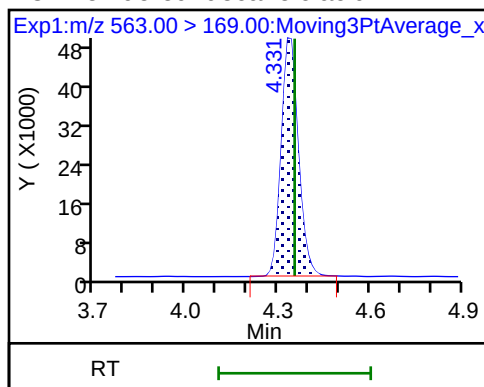
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

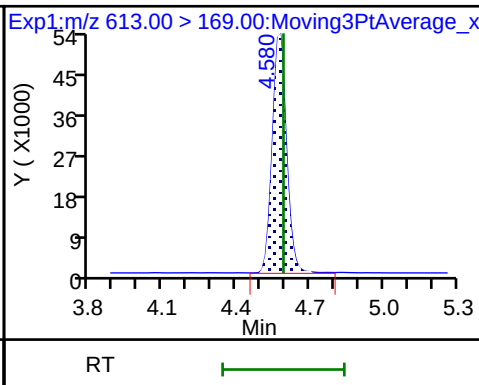
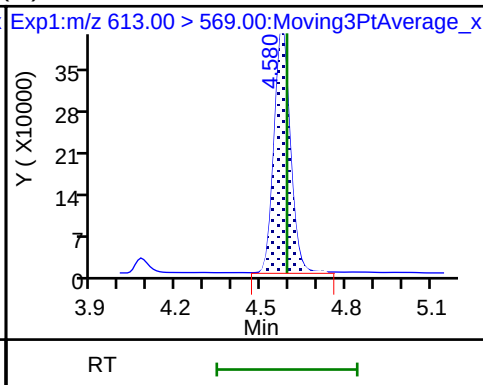
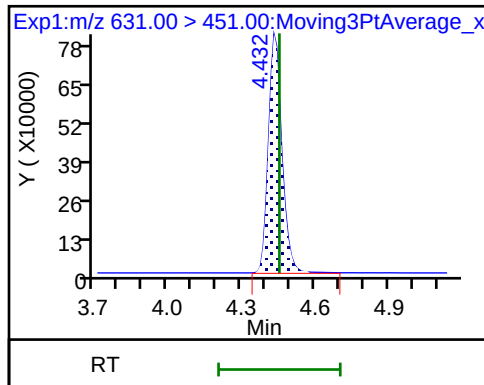
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

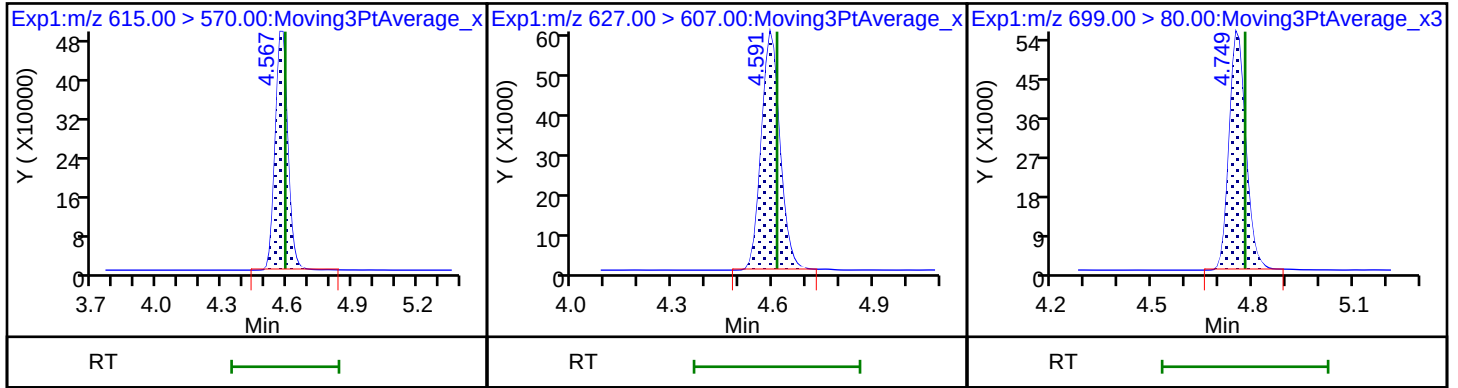
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



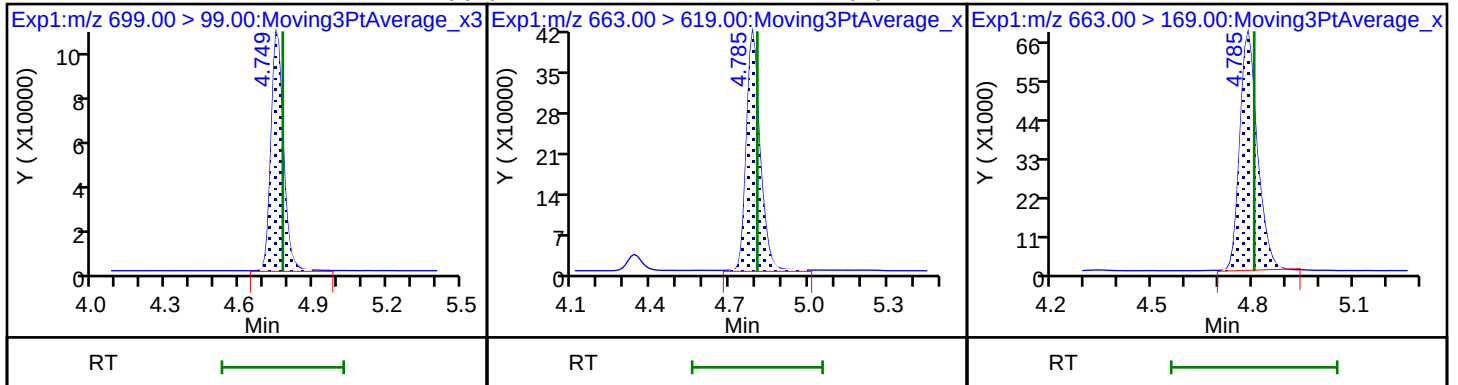
D 36 13C2 PFD0A

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



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

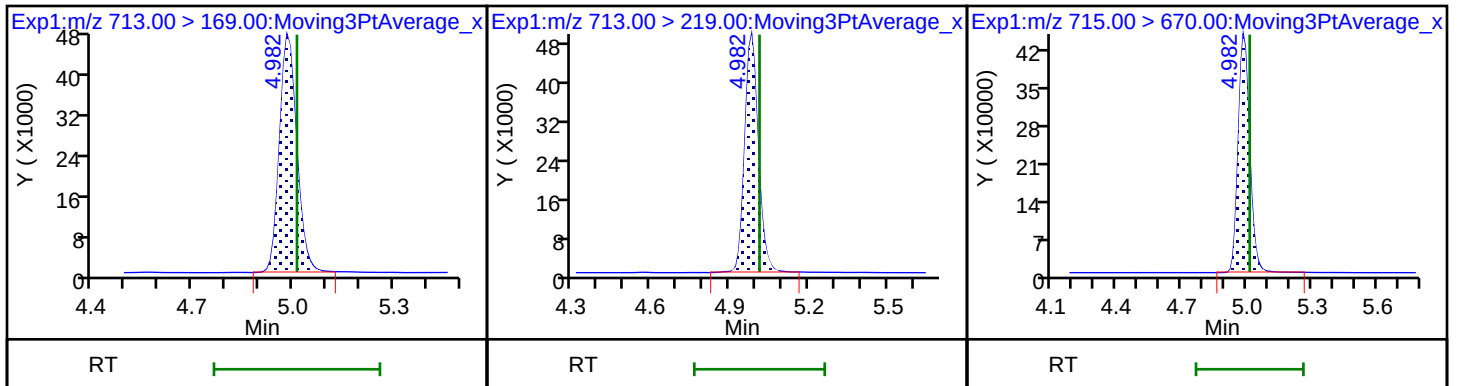
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

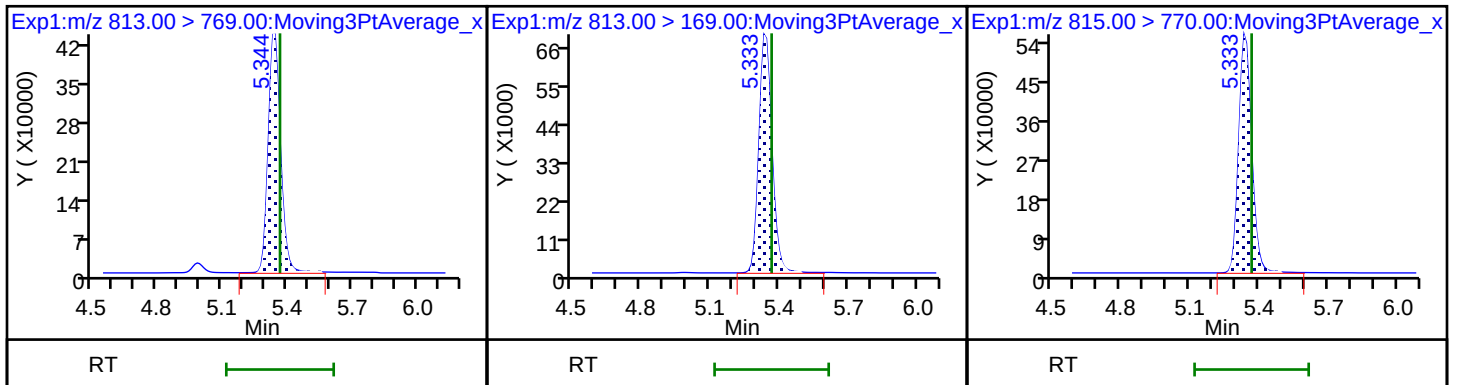
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

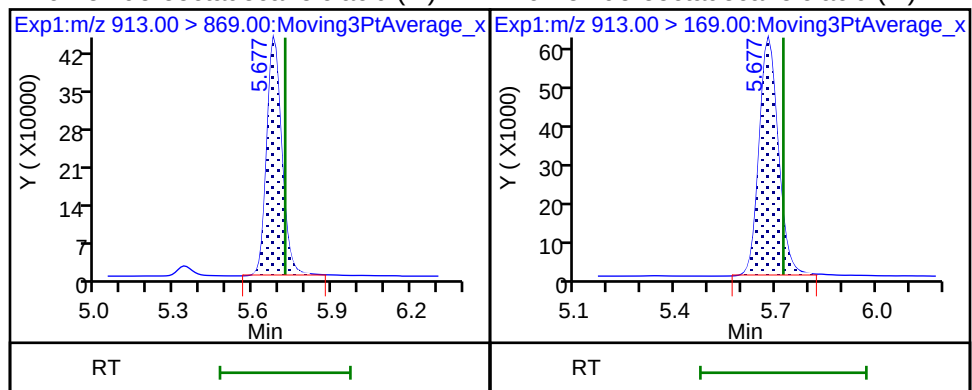
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

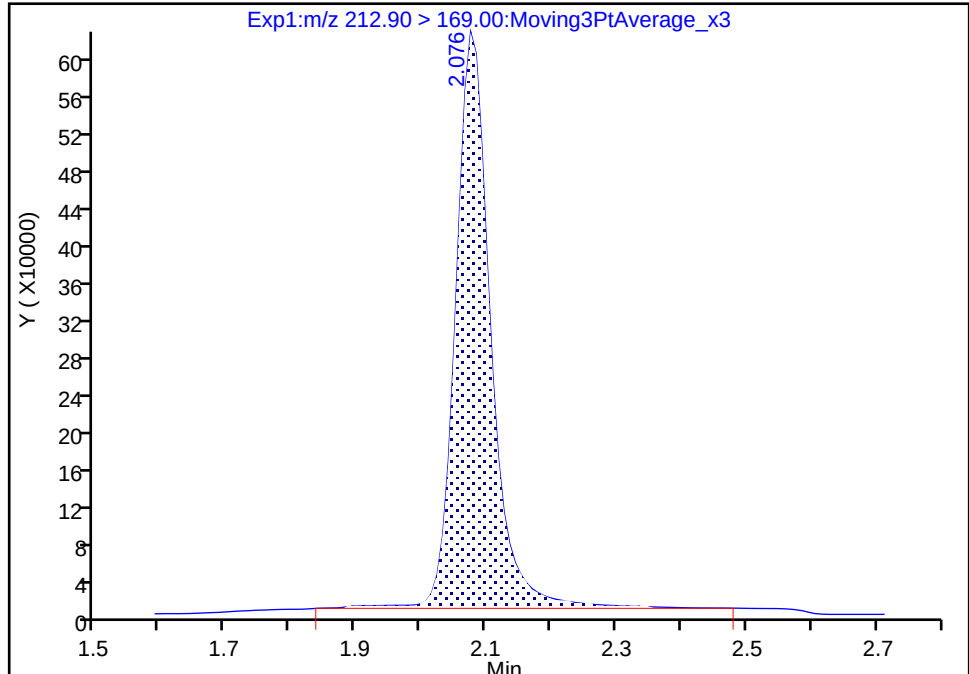
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Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

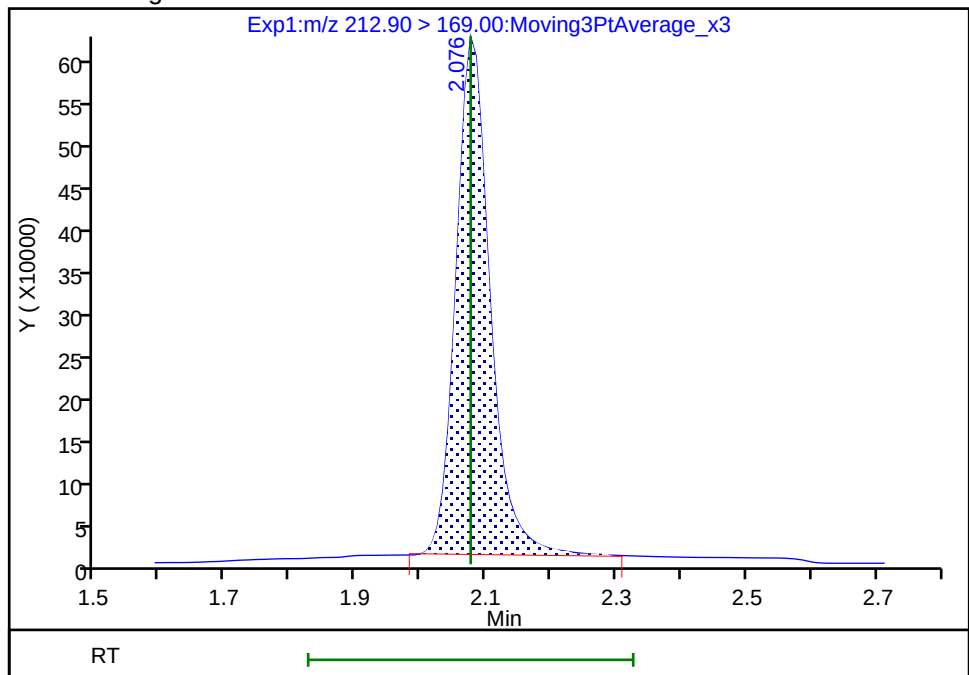
RT: 2.08
Area: 2344646
Amount: 1.069113
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2259599
Amount: 1.030334
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:48:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

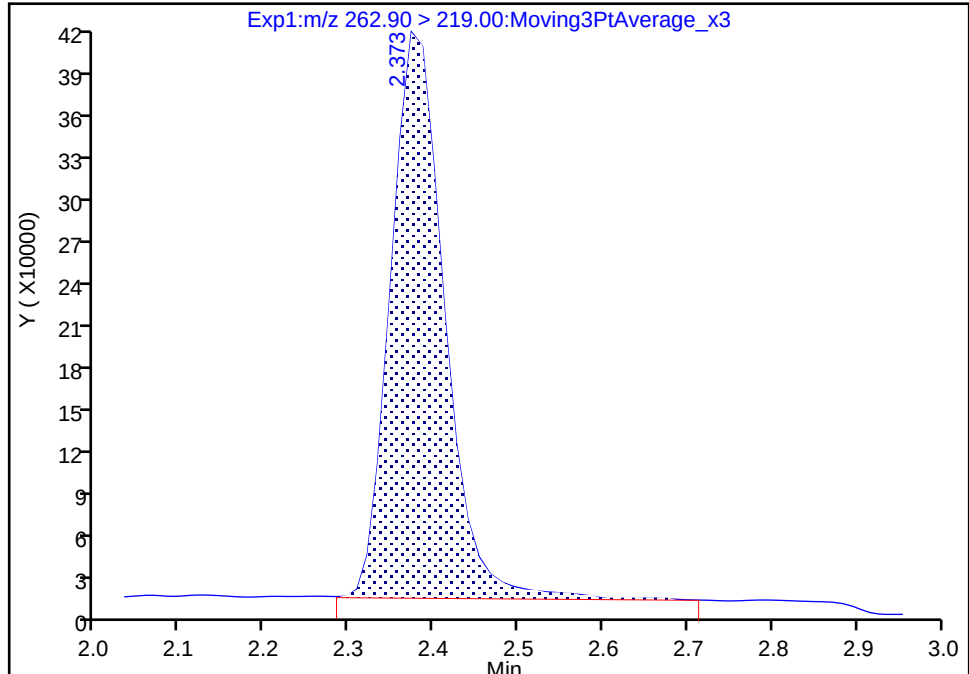
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

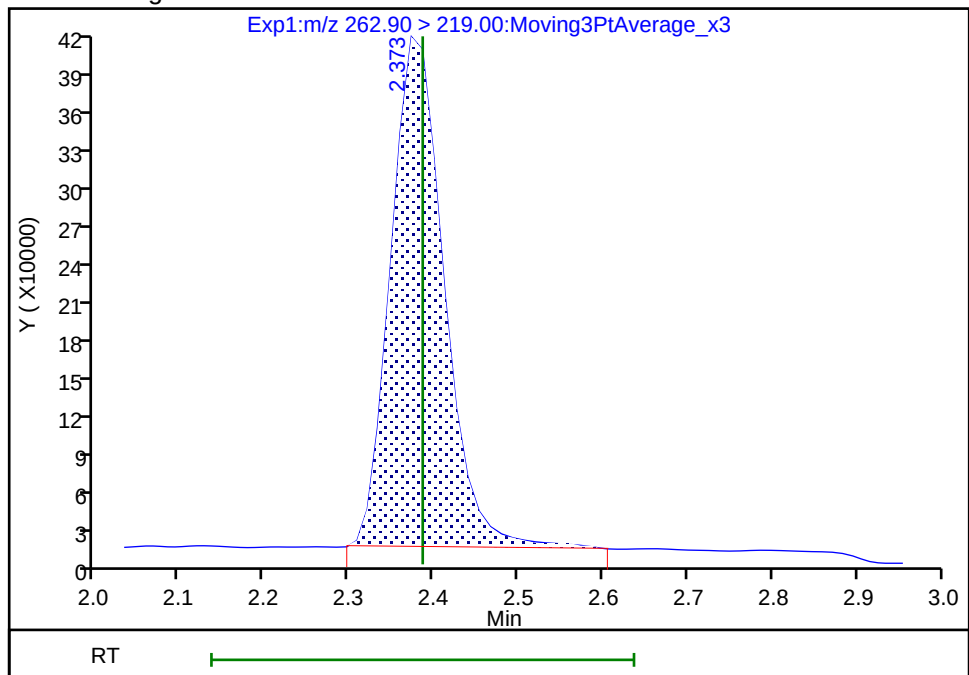
RT: 2.37
Area: 1779236
Amount: 1.058860
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 1768414
Amount: 1.052420
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:48:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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1/9/2023 1:38
PM

Eurofins Burlington

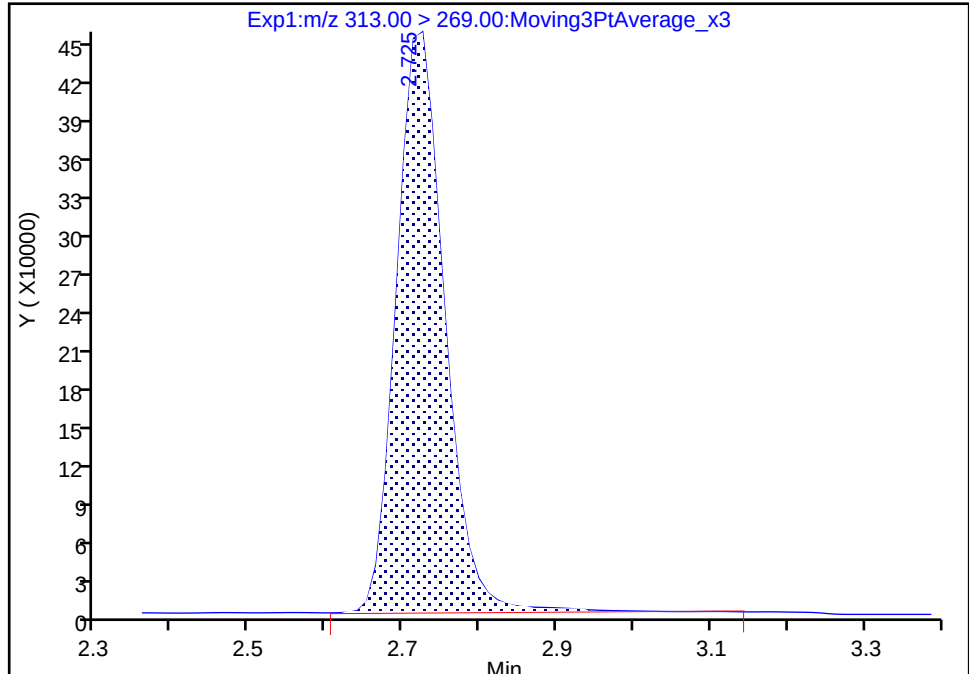
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

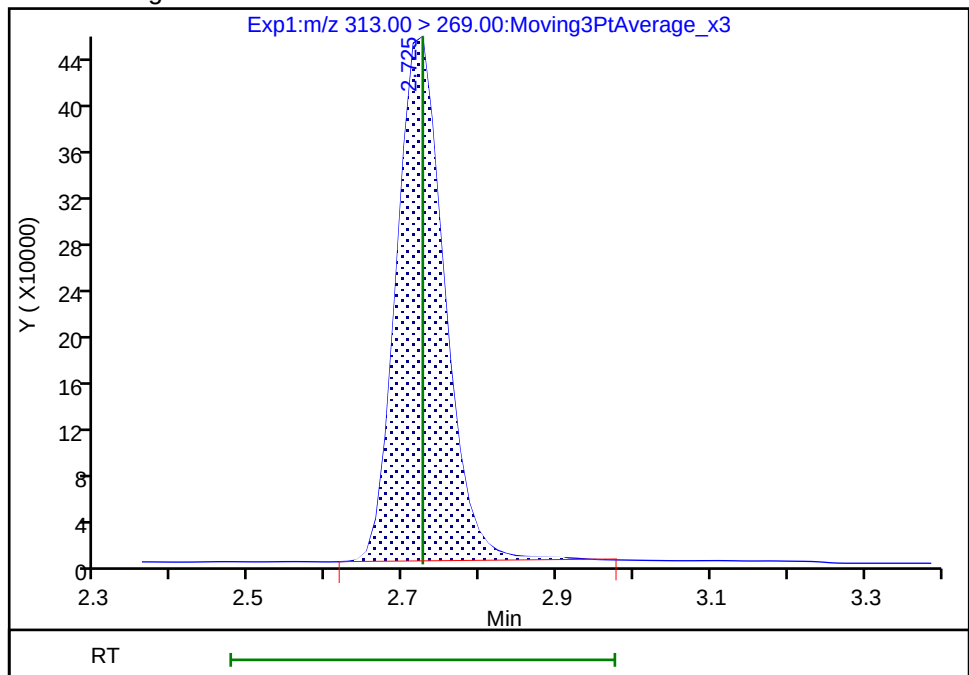
RT: 2.73
Area: 1964490
Amount: 1.005398
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1945846
Amount: 0.995856
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:48:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

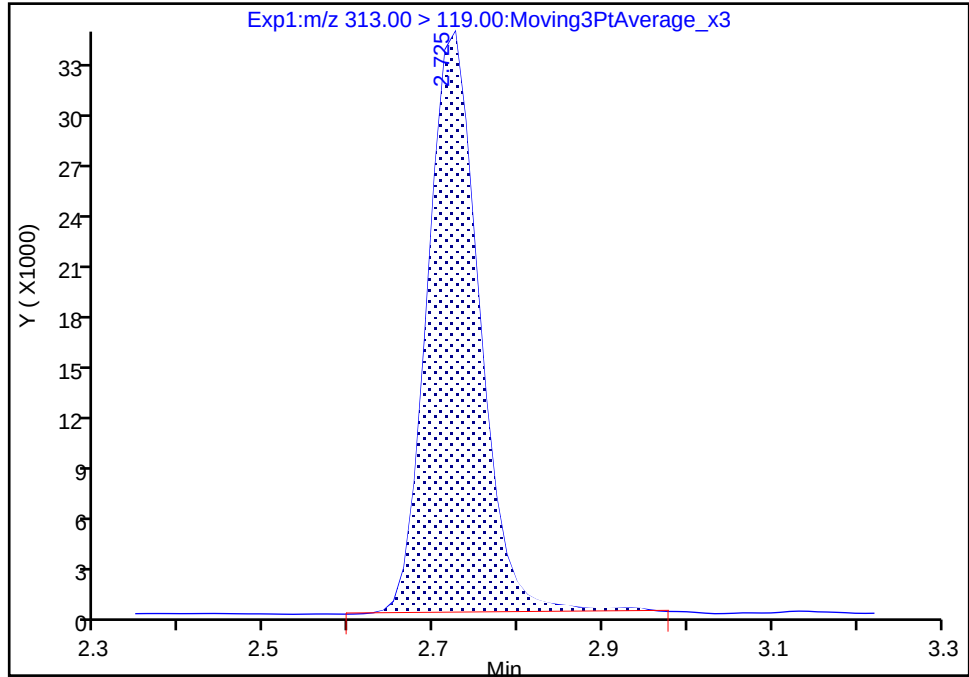
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

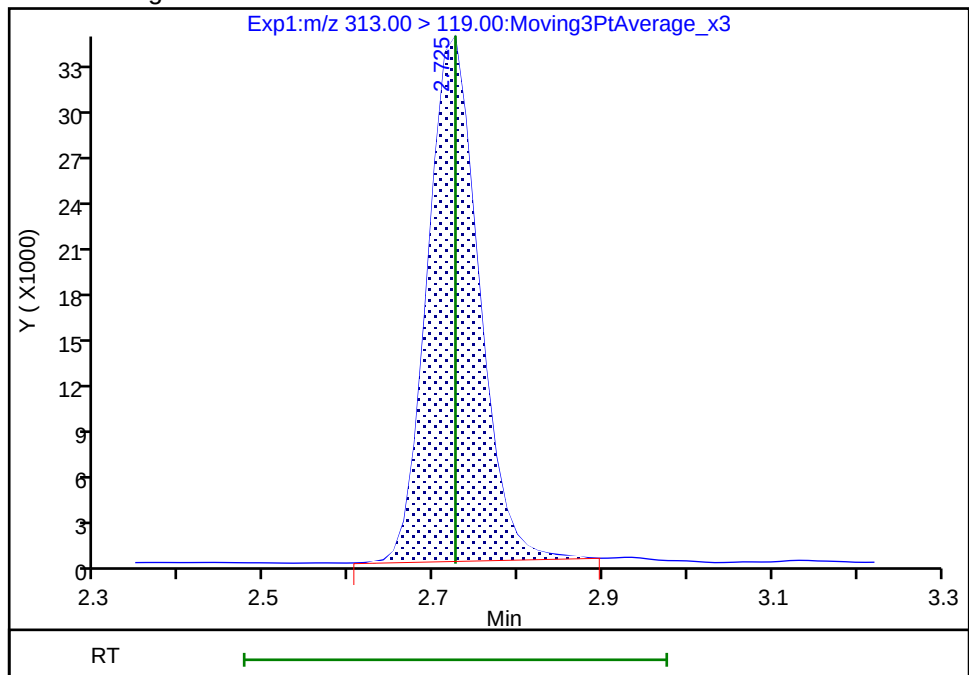
RT: 2.73
Area: 147332
Amount: 1.005398
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 144888
Amount: 0.995856
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:48:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

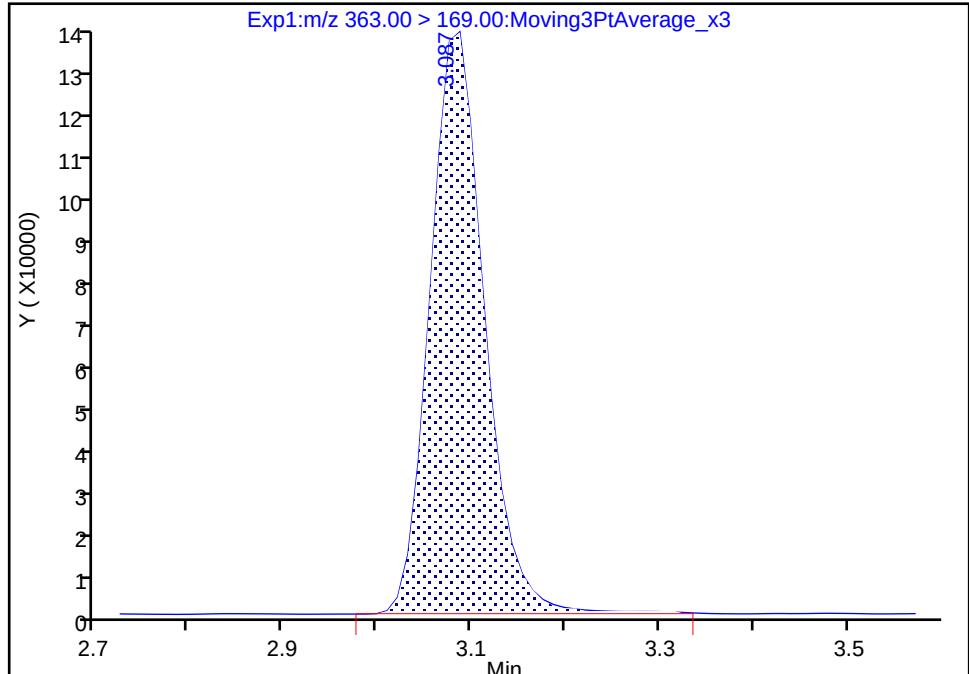
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

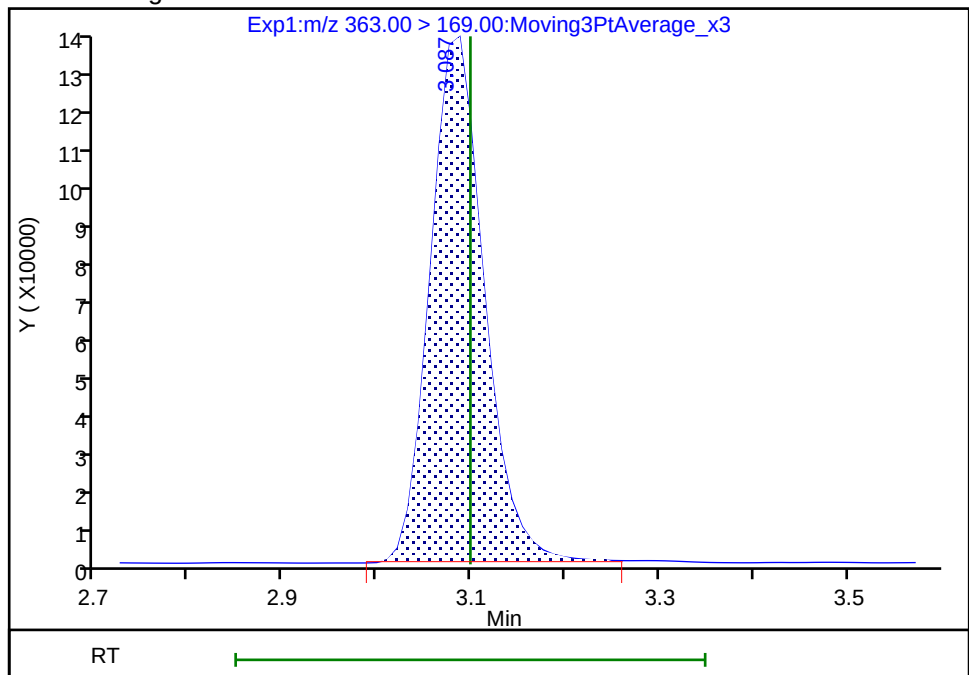
RT: 3.09
Area: 547271
Amount: 1.080404
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 542751
Amount: 1.080404
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

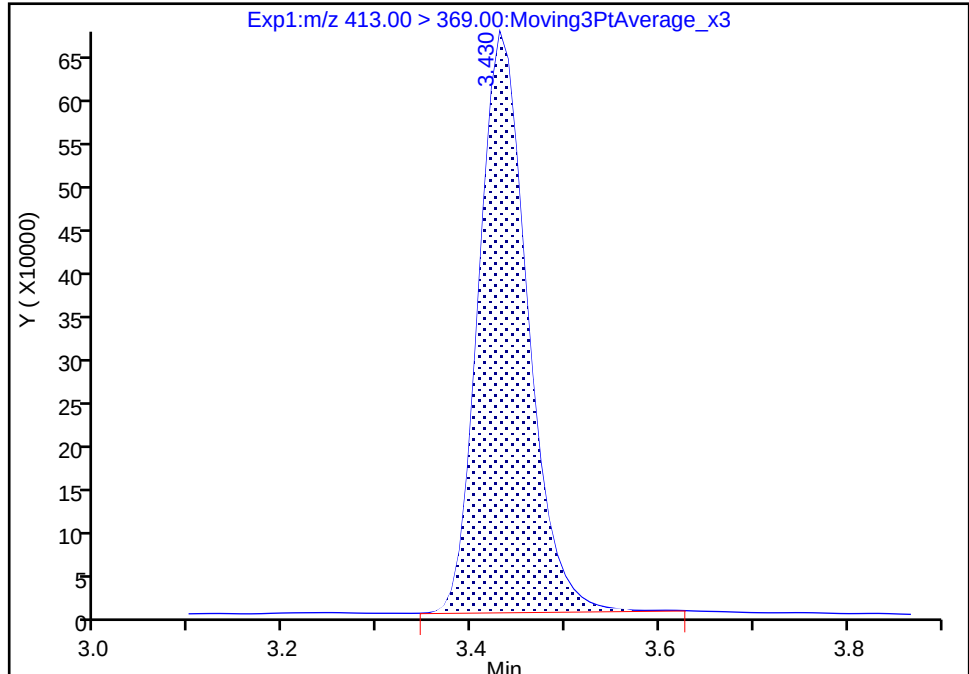
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

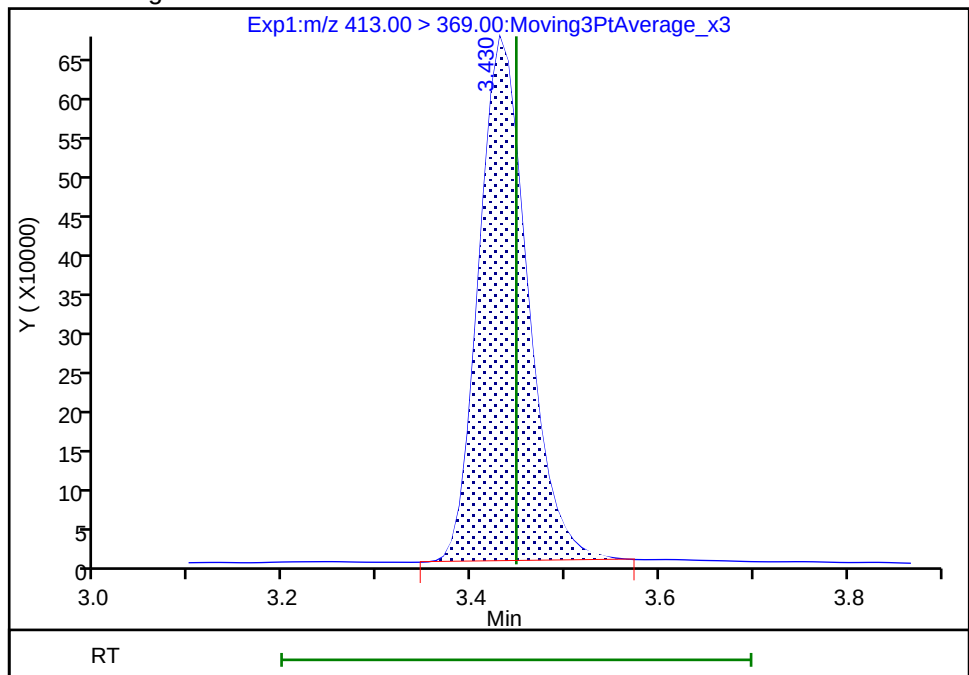
RT: 3.43
Area: 2418383
Amount: 1.054576
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 2408919
Amount: 1.050449
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d

Injection Date: 04-Jan-2023 15:59:04

Instrument ID: LC812

Lims ID: LCSD 200-187194/3-A

Client ID:

Operator ID: lc812tech

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

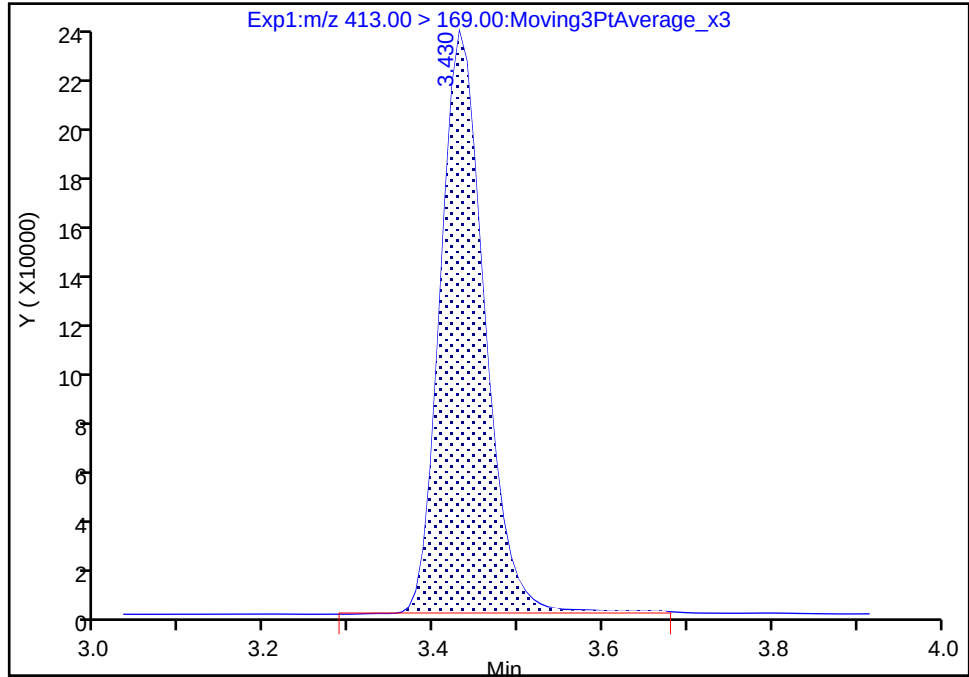
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

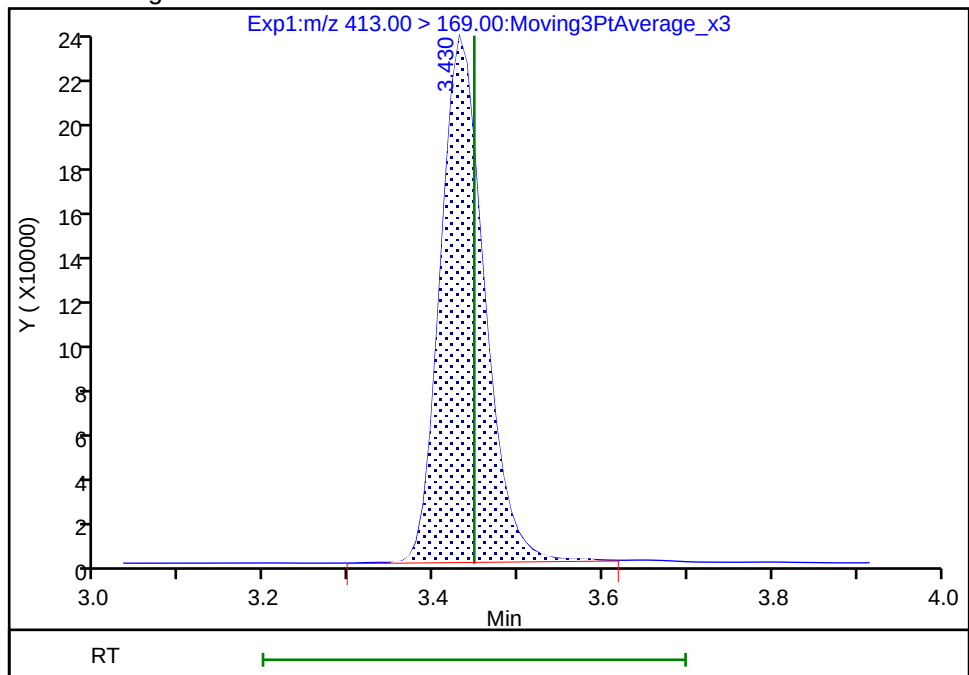
RT: 3.43
Area: 862480
Amount: 1.054576
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 856804
Amount: 1.050449
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

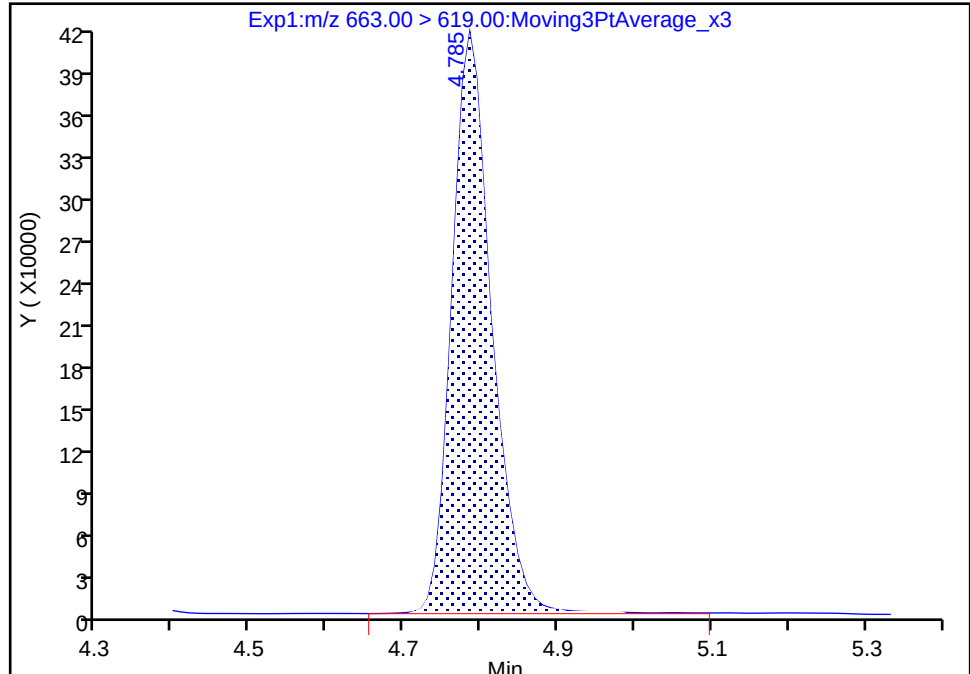
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

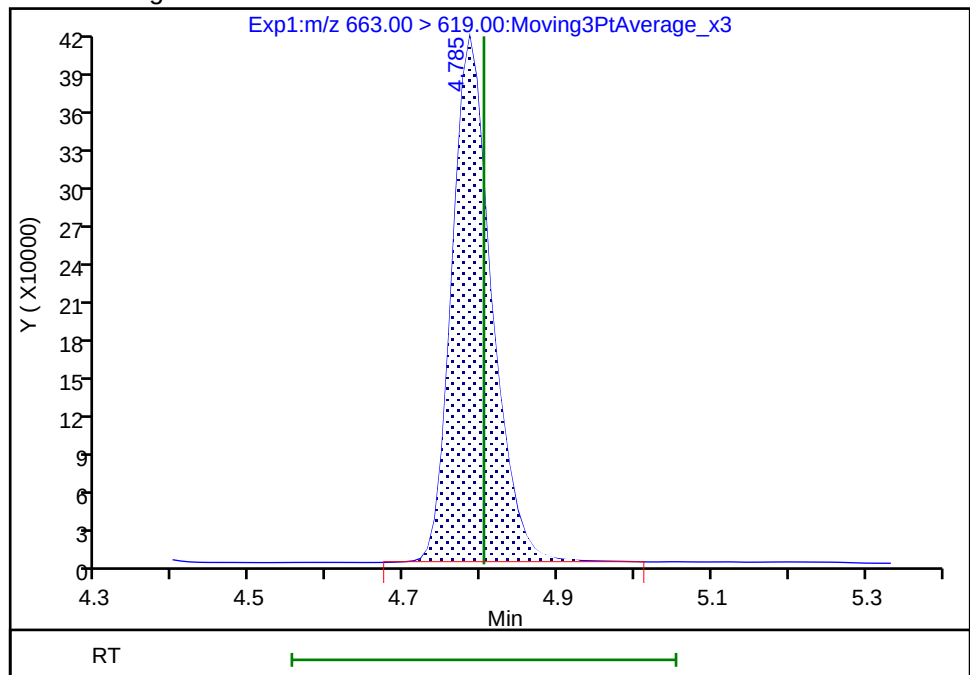
RT: 4.79
Area: 1481489
Amount: 0.913466
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 1478684
Amount: 0.911736
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:51:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

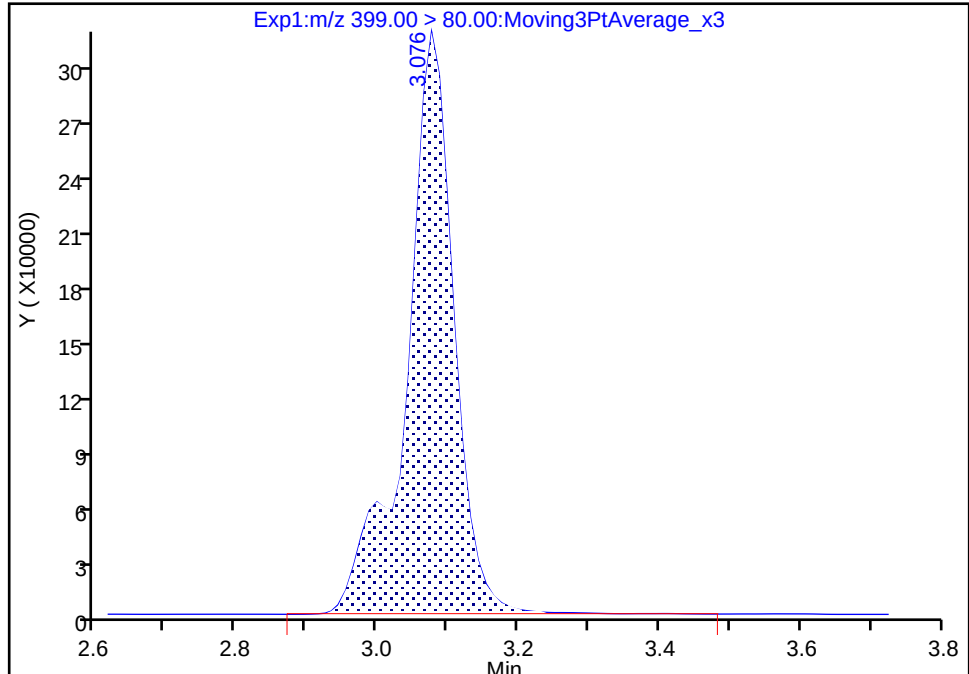
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

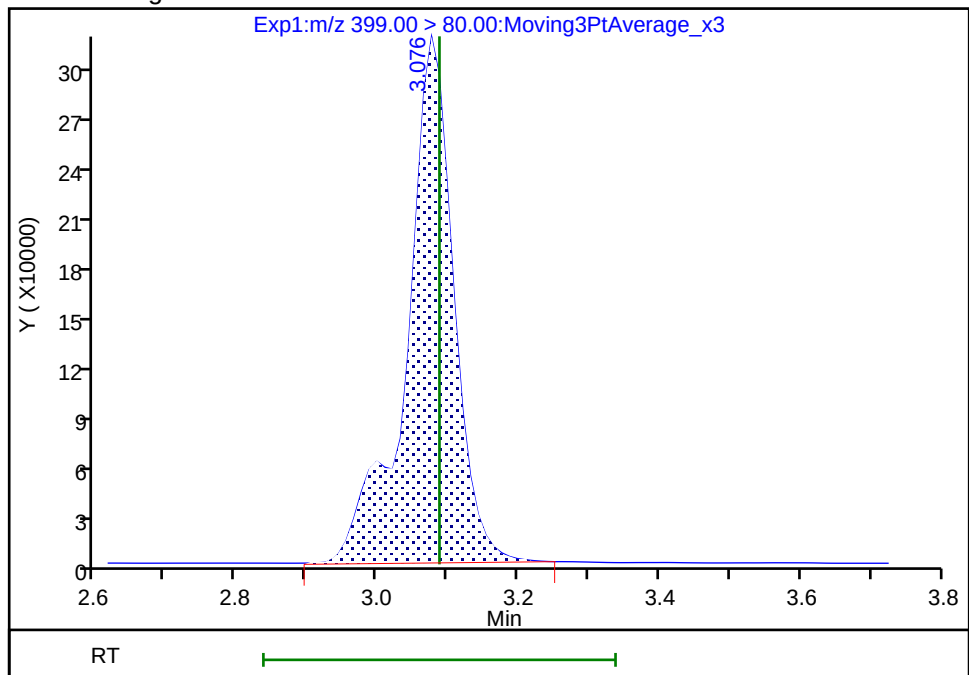
RT: 3.08
Area: 1470879
Amount: 0.955161
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 1457114
Amount: 0.946223
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:48:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

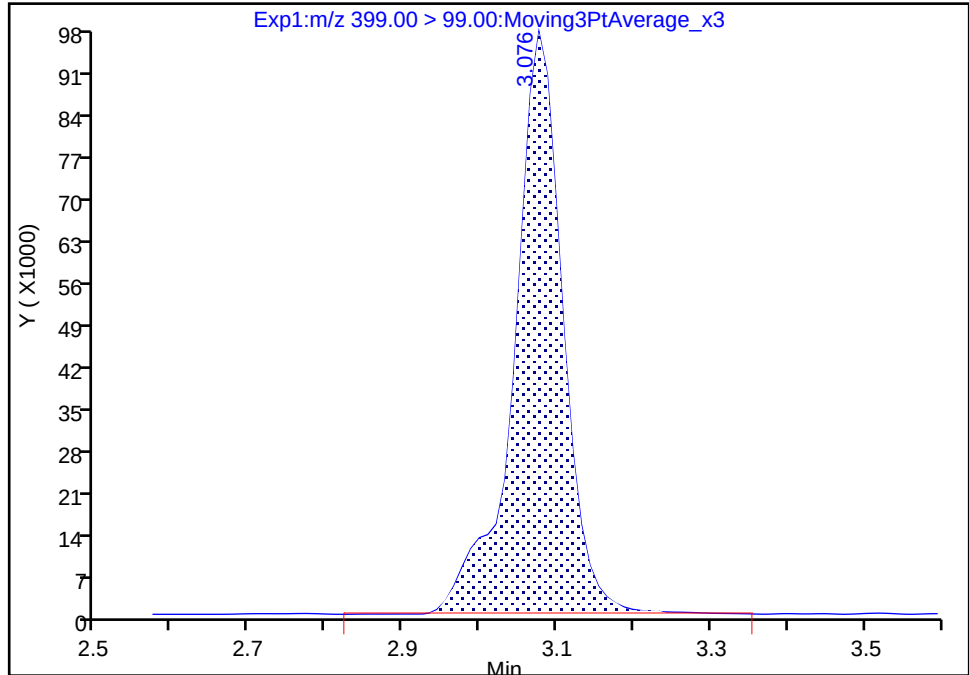
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

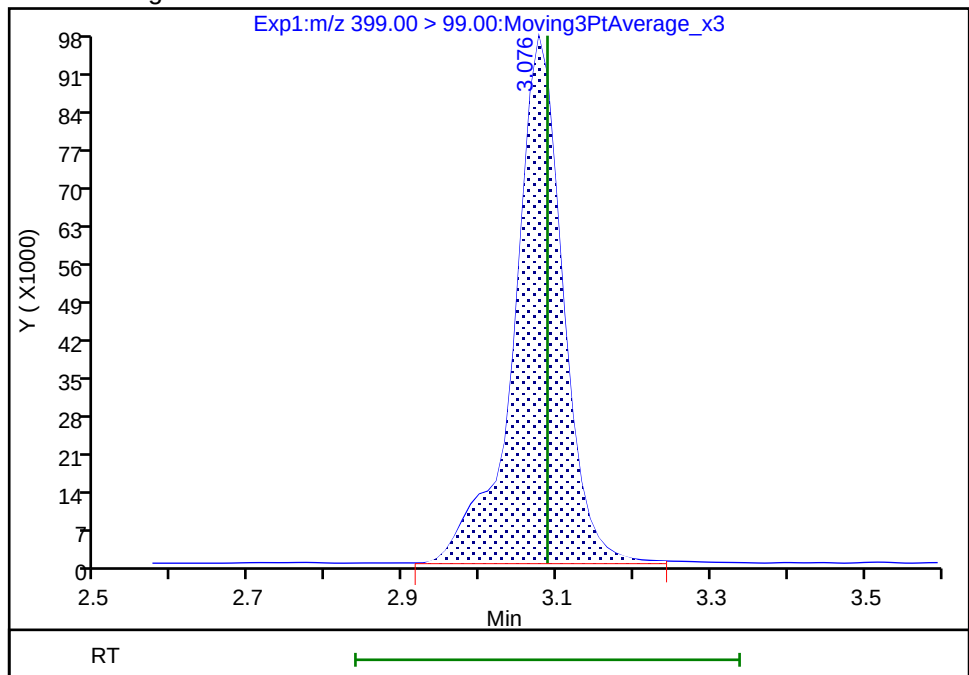
RT: 3.08
Area: 433125
Amount: 0.955161
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 431648
Amount: 0.946223
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

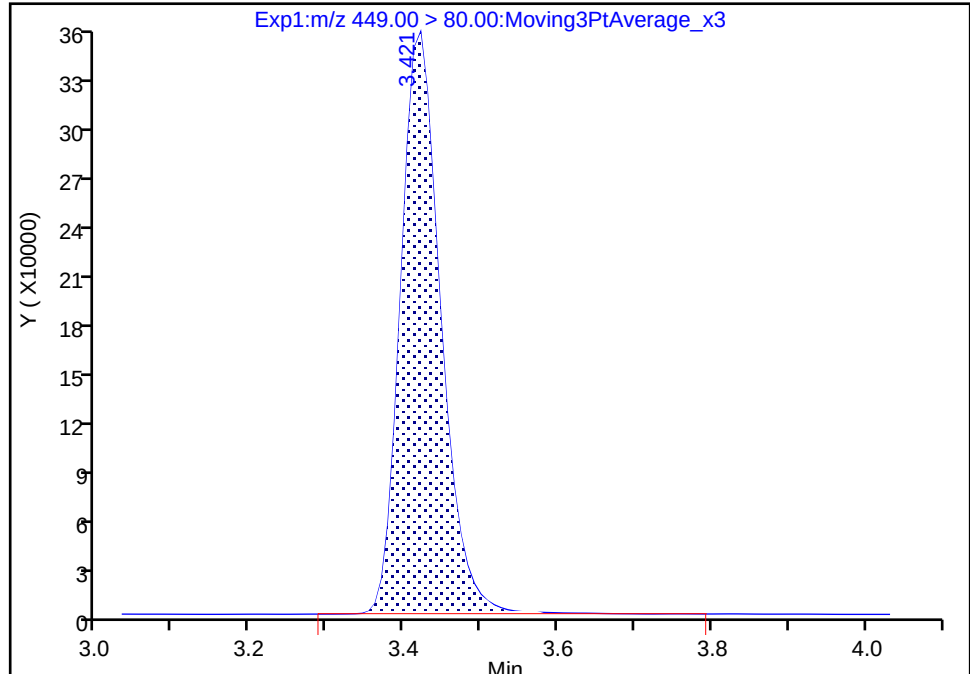
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

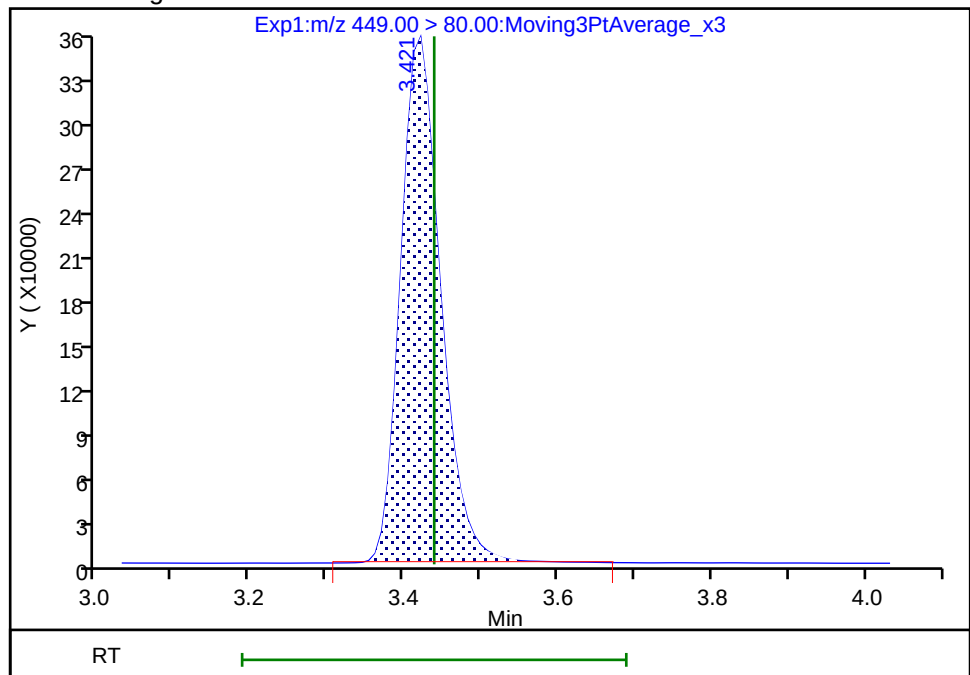
RT: 3.42
Area: 1302156
Amount: 0.955889
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 1298902
Amount: 0.953501
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d

Injection Date: 04-Jan-2023 15:59:04

Instrument ID: LC812

Lims ID: LCSD 200-187194/3-A

Client ID:

Operator ID: lc812tech

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

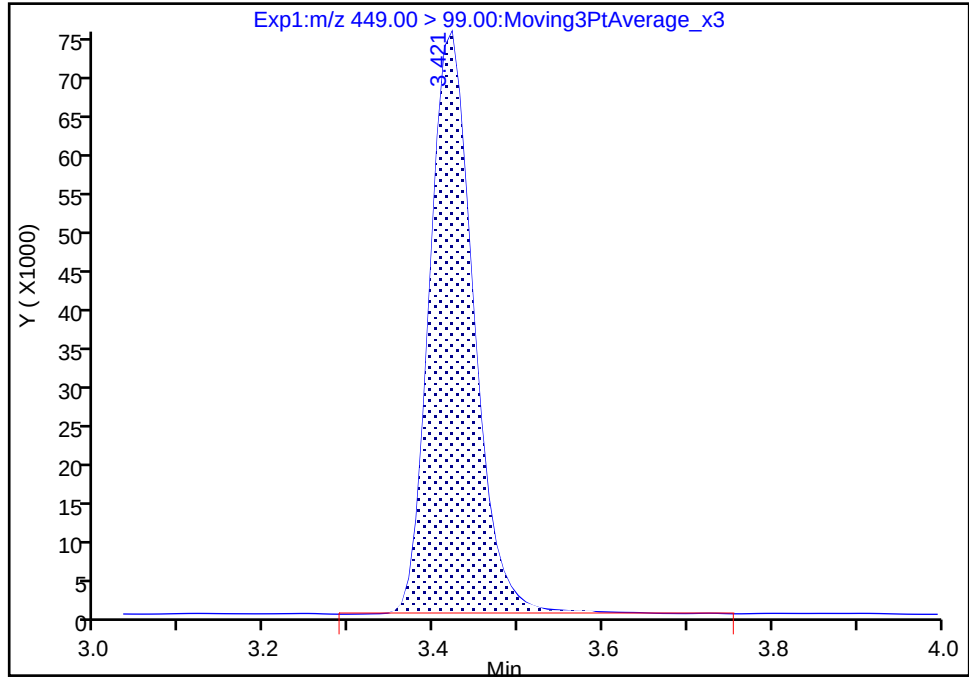
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

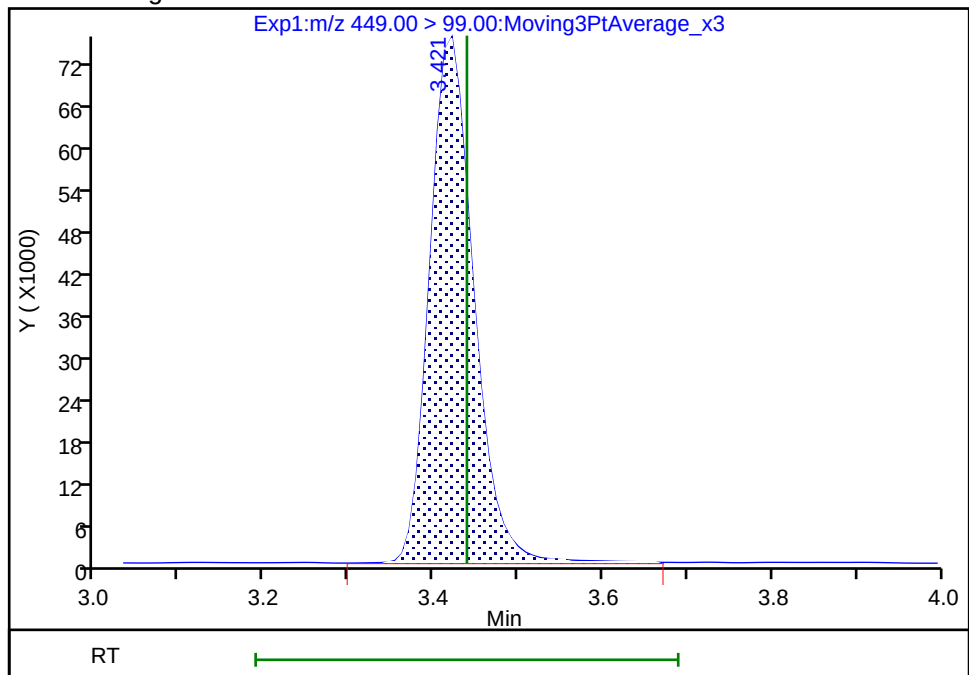
RT: 3.42
Area: 272521
Amount: 0.955889
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 271564
Amount: 0.953501
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

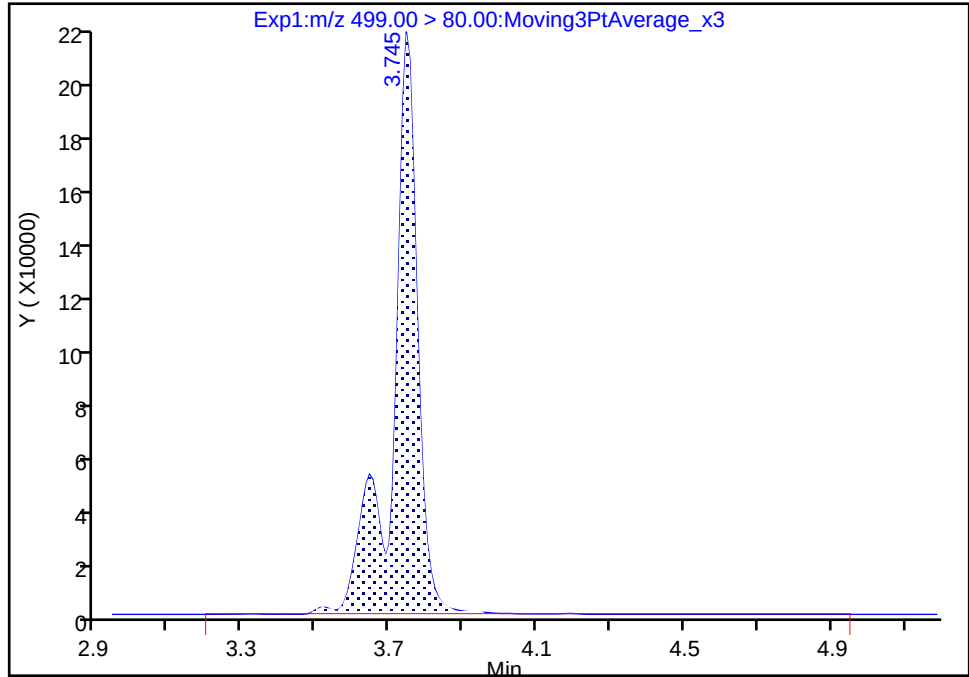
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

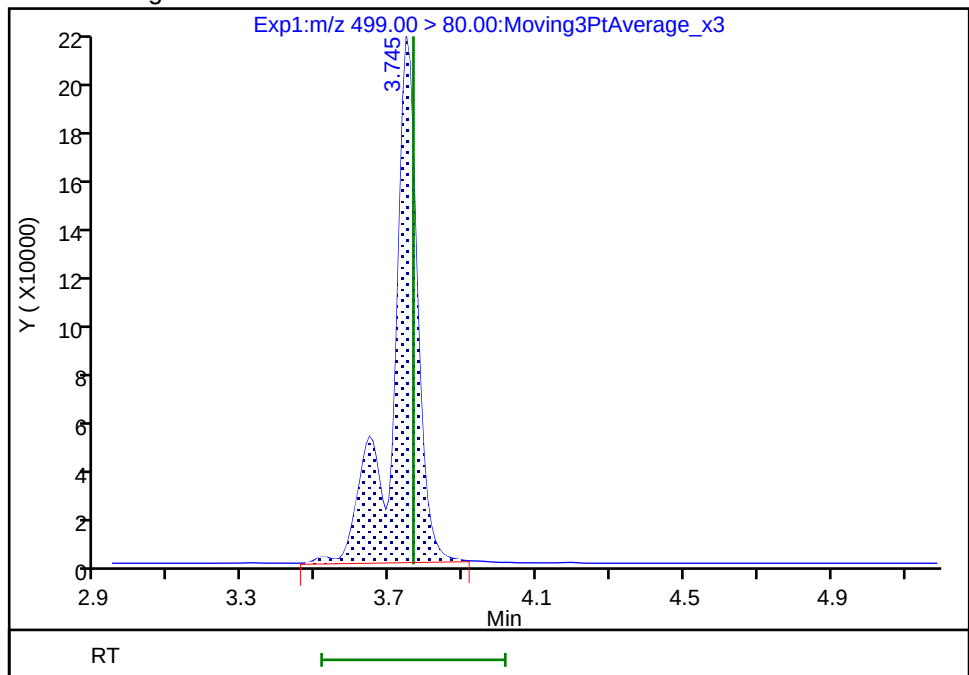
RT: 3.74
Area: 1048960
Amount: 0.884360
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 1036527
Amount: 0.873878
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

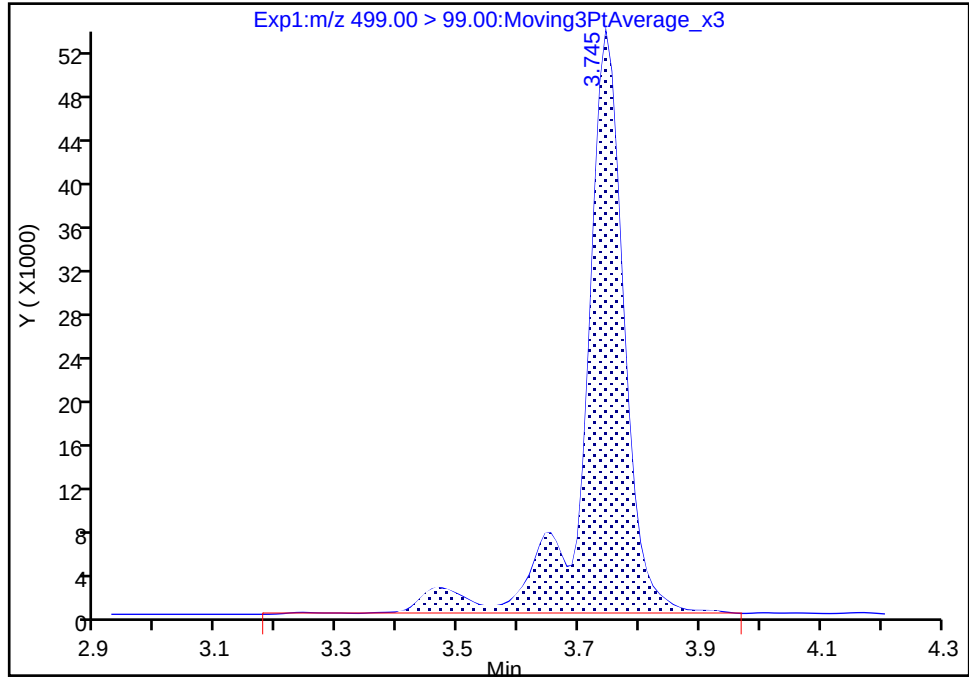
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

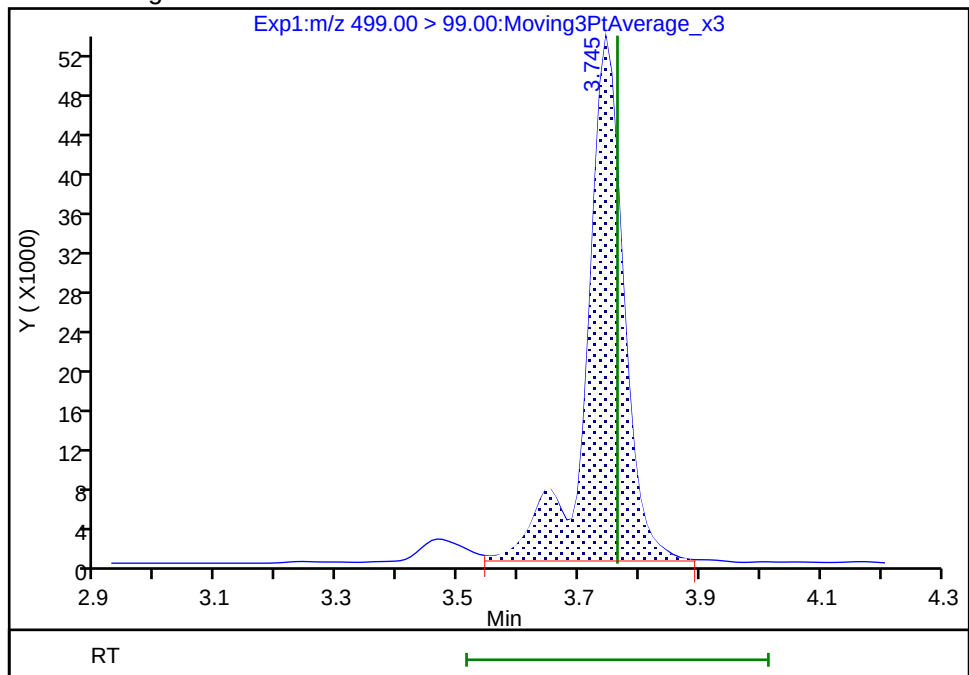
RT: 3.74
Area: 246729
Amount: 0.884360
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 231289
Amount: 0.873878
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 05-Jan-2023 08:07:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

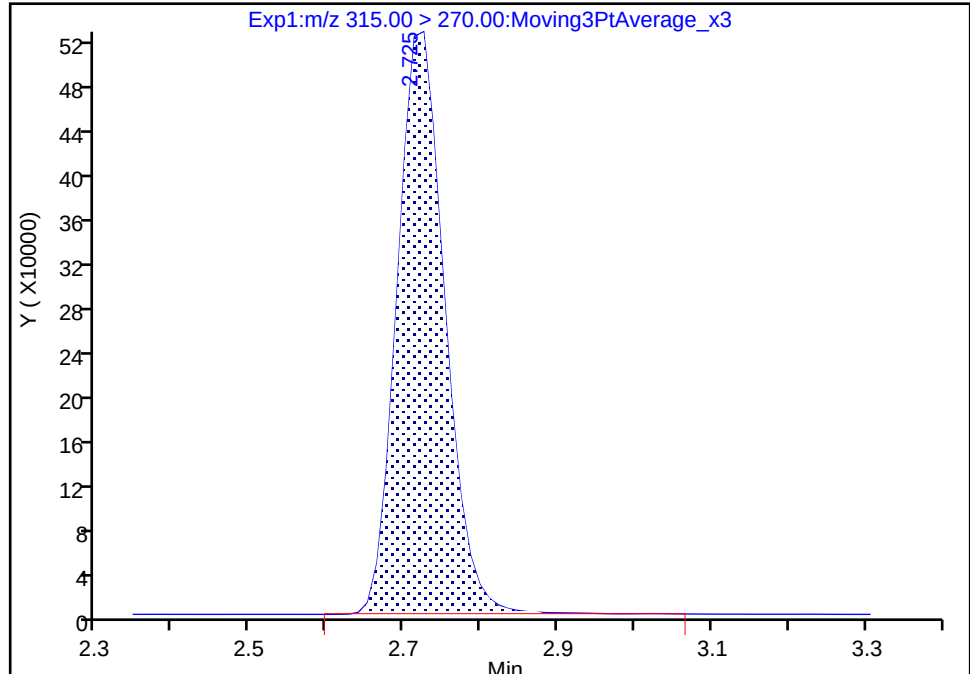
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

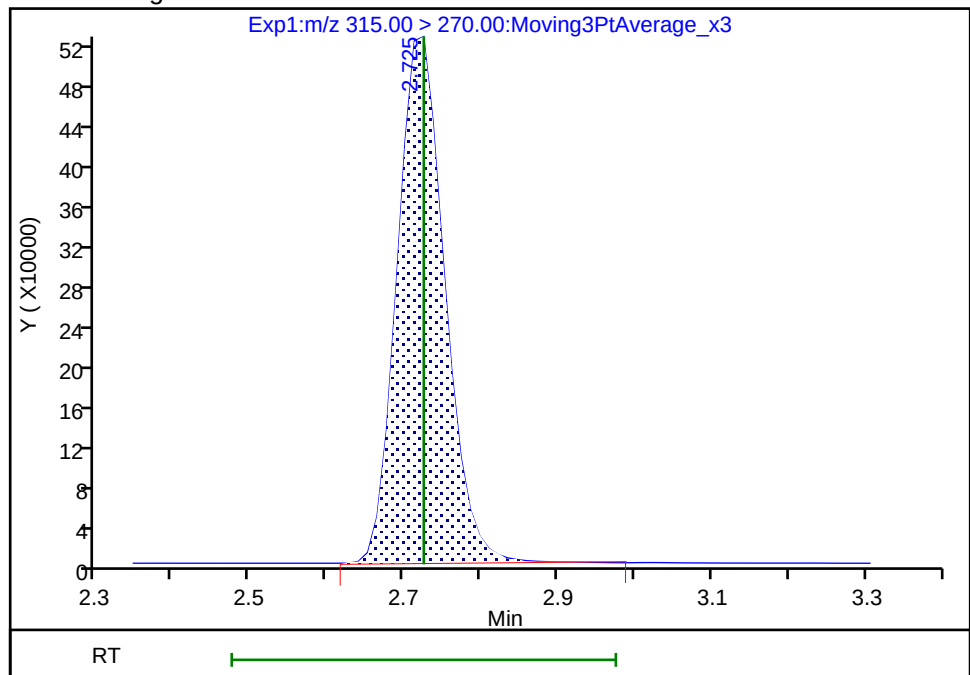
RT: 2.73
Area: 2245160
Amount: 1.156385
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 2241561
Amount: 1.154532
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:47:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

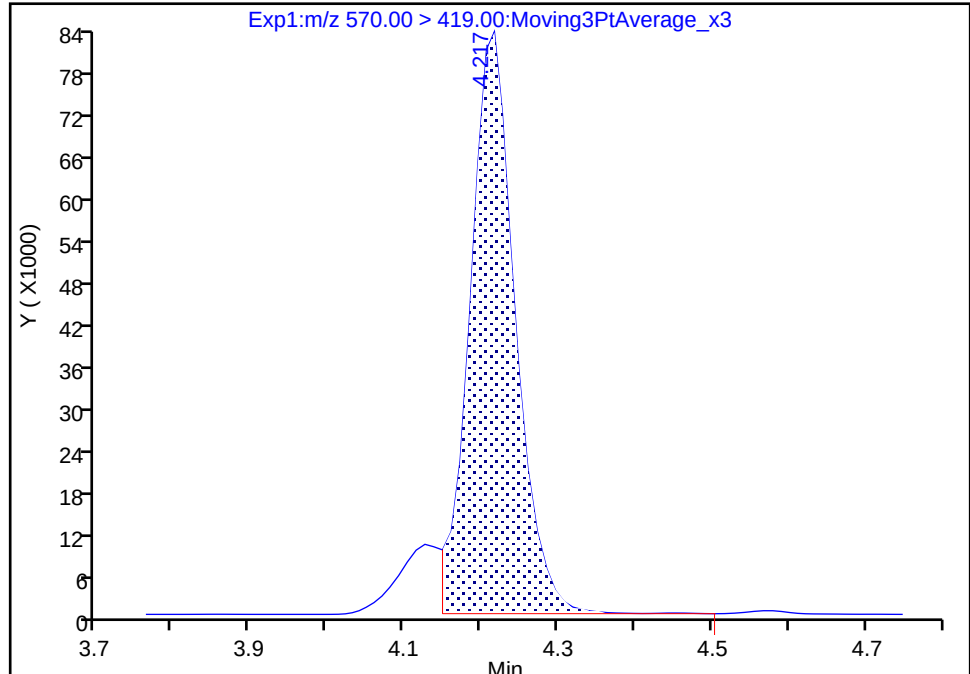
Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d
Injection Date: 04-Jan-2023 15:59:04 Instrument ID: LC812
Lims ID: LCSD 200-187194/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

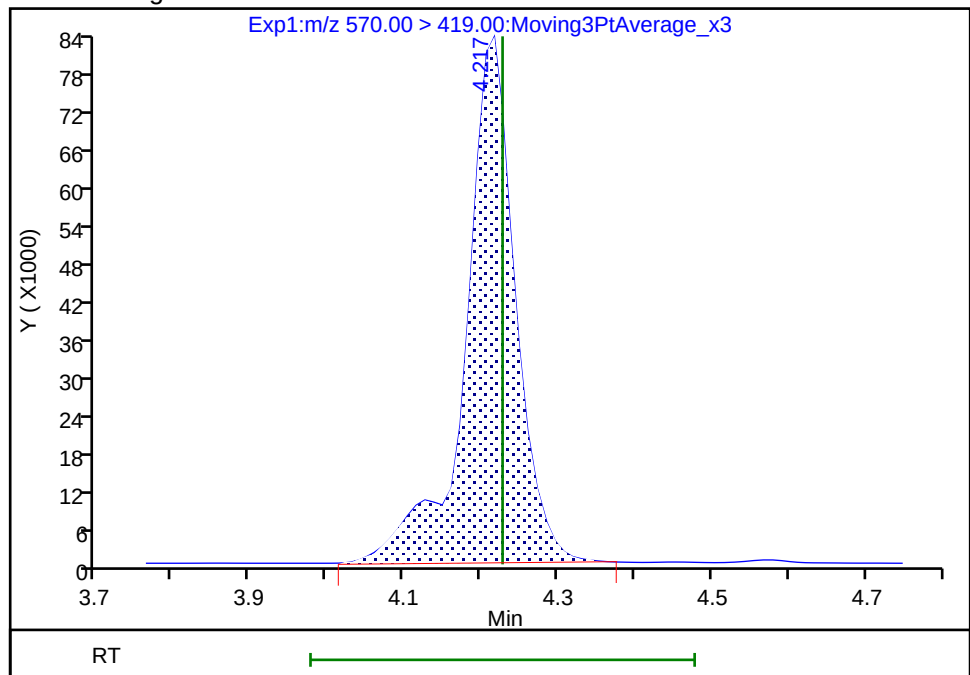
RT: 4.22
Area: 341631
Amount: 0.989950
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 376625
Amount: 1.092544
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:50:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d

Injection Date: 04-Jan-2023 15:59:04

Instrument ID: LC812

Lims ID: LCSD 200-187194/3-A

Client ID:

Operator ID: lc812tech

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)

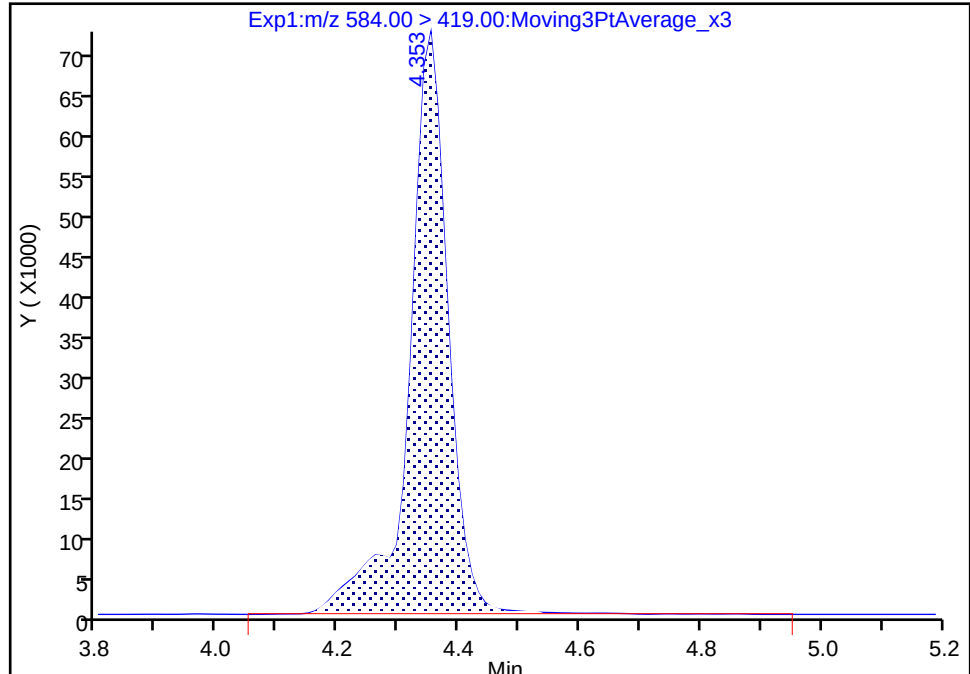
Detector: EXP1

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

Signal: 1

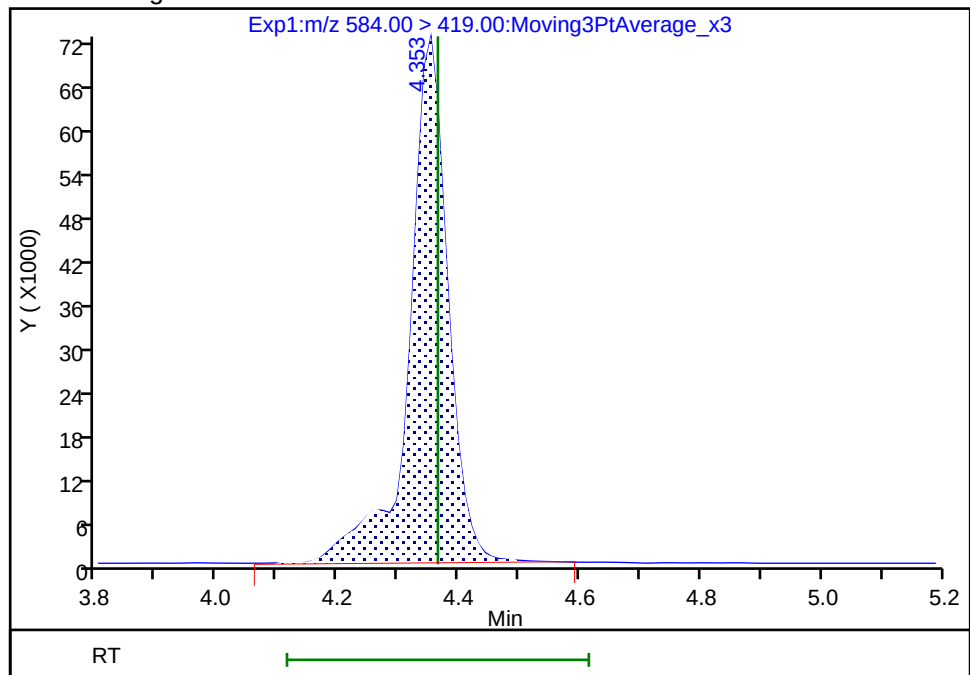
RT: 4.35
Area: 328530
Amount: 1.038261
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 324717
Amount: 1.026211
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:50:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d

Injection Date: 04-Jan-2023 15:59:04

Instrument ID: LC812

Lims ID: LCSD 200-187194/3-A

Client ID:

Operator ID: lc812tech

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

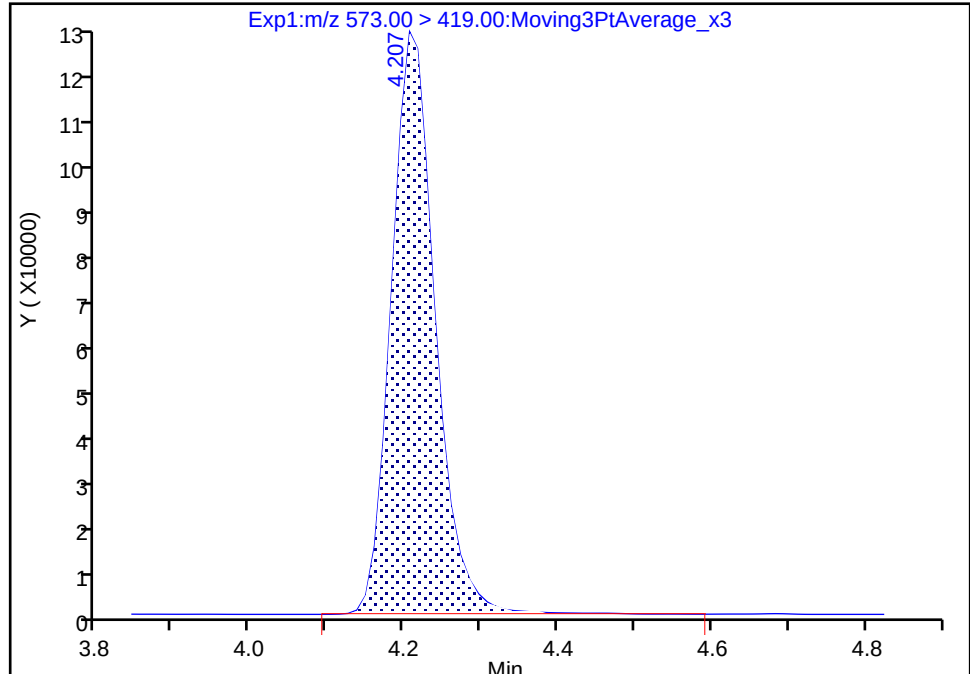
EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

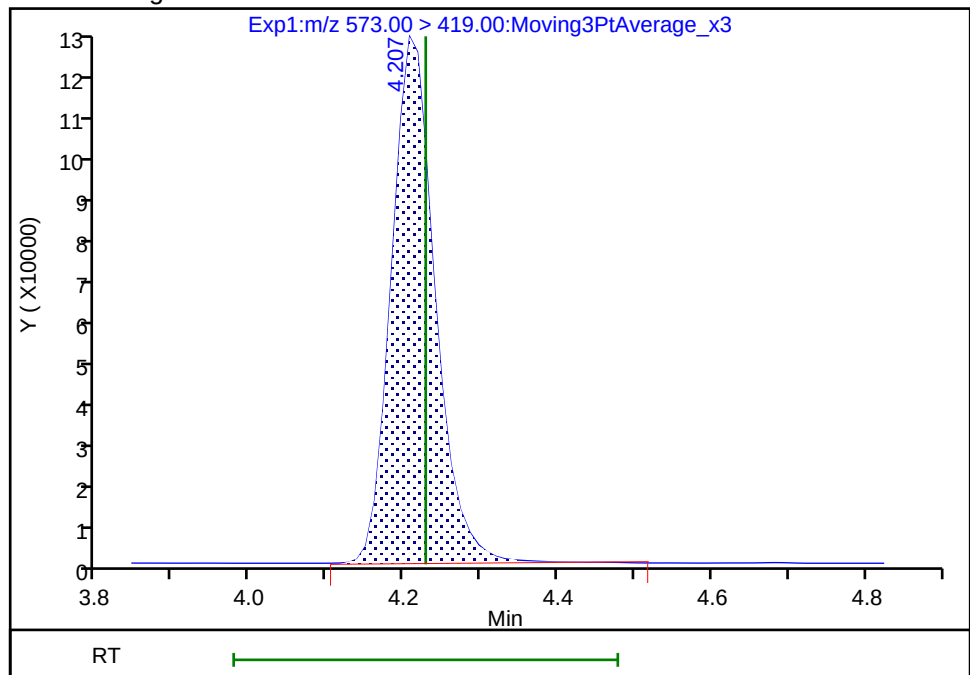
RT: 4.21
Area: 496313
Amount: 1.096426
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 495634
Amount: 1.094926
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:48:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230104-53892.b\PA230104A10.d

Injection Date: 04-Jan-2023 15:59:04

Instrument ID: LC812

Lims ID: LCSD 200-187194/3-A

Client ID:

Operator ID: lc812tech

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)

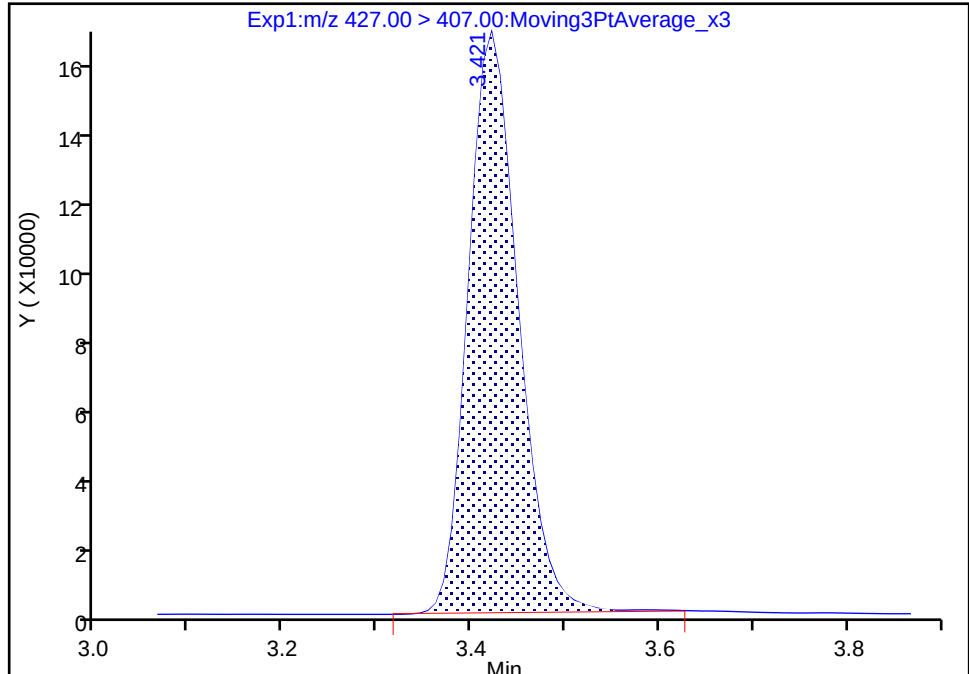
Detector: EXP1

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

Signal: 1

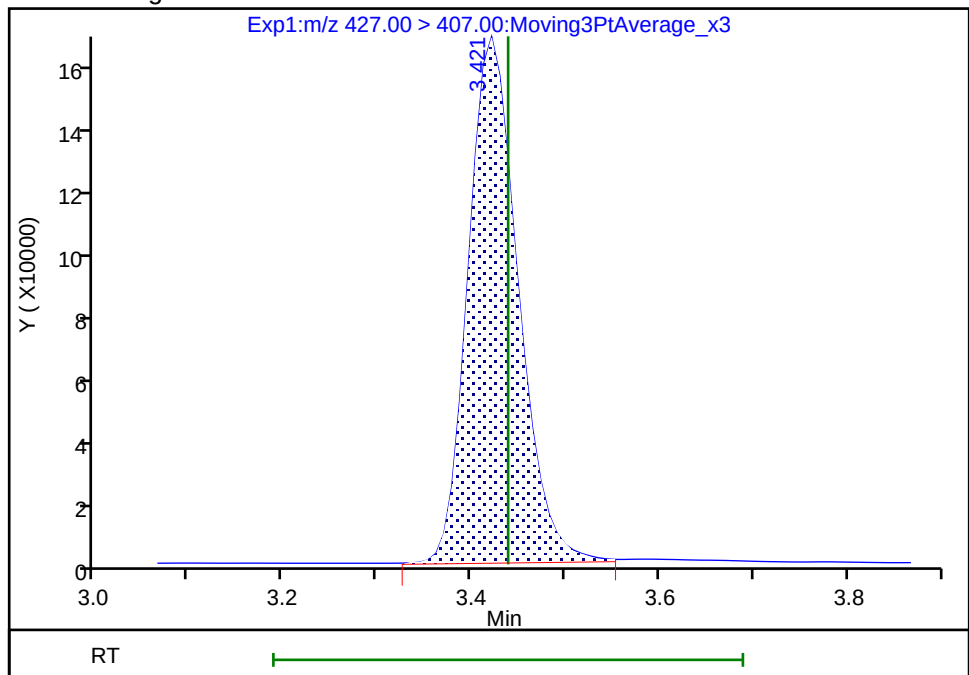
RT: 3.42
Area: 623743
Amount: 1.104941
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 626522
Amount: 1.109917
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 05-Jan-2023 16:49:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 460-271803-A-3-B MS

Matrix: Solid Lab File ID: PA230105A17.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.21(g) Date Analyzed: 01/05/2023 17:00

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

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 61.1 % Solids: 38.9 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.603		1.23	0.81
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.918		0.49	0.14
307-24-4	Perfluorohexanoic acid (PFHxA)	5.010		0.49	0.11
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.512		0.49	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	5.180		0.49	0.14
375-95-1	Perfluorononanoic acid (PFNA)	4.723		0.49	0.084
335-76-2	Perfluorodecanoic acid (PFDA)	4.875		0.49	0.069
2058-94-8	Perfluoroundecanoic acid (PFUnA)	5.121		0.49	0.067
307-55-1	Perfluorododecanoic acid (PFDoA)	5.101		0.49	0.062
72629-94-8	Perfluorotridecanoic acid (PFTriA)	4.309		0.49	0.062
376-06-7	Perfluorotetradecanoic acid (PFTeA)	4.707		0.49	0.064
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.336		0.49	0.081
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	6.272		0.49	0.10
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	5.183		0.49	0.057
335-77-3	Perfluorodecanesulfonic acid (PFDS)	4.653		0.49	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	22.66		0.49	0.27
754-91-6	Perfluorooctanesulfonamide (FOSA)	4.852		0.49	0.084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.061		4.93	0.27
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.771		4.93	0.20
27619-97-2	6:2 FTS	5.035		4.93	0.14
39108-34-4	8:2 FTS	5.221		4.93	0.091

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 460-271803-A-3-B MS

Matrix: Solid Lab File ID: PA230105A17.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.21(g) Date Analyzed: 01/05/2023 17:00

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

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 61.1 % Solids: 38.9 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	83		50-150
STL00990	13C4 PFOA	87		50-150
STL00995	13C5 PFNA	94		50-150
STL00992	13C4 PFBA	79		50-150
STL00993	13C2 PFHxA	82		50-150
STL00996	13C2 PFDA	99		50-150
STL00997	13C2 PFUnA	99		50-150
STL00994	18O2 PFHxS	79		50-150
STL00998	13C2 PFDoA	88		50-150
STL00991	13C4 PFOS	74		50-150
STL01056	13C8 FOSA	65		50-150
STL01893	13C5 PFPeA	79		50-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	128		50-150
STL02117	d5-NEtFOSAA	141		50-150
STL02279	M2-6:2 FTS	110		50-150
STL02337	13C3 PFBS	78		50-150
STL02280	M2-8:2 FTS	189	*	50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
 Lims ID: 460-271803-A-3-B MS
 Client ID: SED-3
 Sample Type: MS
 Inject. Date: 05-Jan-2023 17:00:14 ALS Bottle#: 14 Worklist Smp#: 17
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271803-A-3-B MS
 Misc. Info.: 200-0053906-017 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:18:35 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 13:36:46

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										M
217.00 > 172.00	2.085	2.076	0.009	0.605	2489782	0.9877		79.0	5064	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.004	1917135	0.9334		93.3	133	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	1888015	0.9834		78.7	1870	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.387	0.013	1.006	1641821	1.00		99.7	25.2	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.696	1895531	0.9088		78.2	24887	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	1640220	0.8792	Target=2.09	99.5	27.6	M
298.90 > 99.00	2.413	2.400	0.013	1.006	804040		2.04(1.04-3.13)		163	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	585275	0.8981		96.2	996	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.784	246956	1.34		115	44.4	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2057016	1.02		81.8	3064	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.004	1821841	1.02	Target=14.25	102	83.7	M
313.00 > 119.00	2.737	2.725	0.012	1.004	125418		14.53(7.12-21.37)		29.4	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	1532006	0.9530	Target=3.04	102	27.5	M
349.00 > 99.00	2.737	2.737	0.0	0.887	544212		2.82(1.52-4.56)		231	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	303002	0.9768		97.7	2279	

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	2.835	0.0	0.822	367231	1.03		82.7	2766	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1423464	0.9368		79.2	3347	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	1728009	1.27	Target=3.66	140	24.2	M
399.00 > 99.00	3.088	3.088	0.0	1.000	503712		3.43(1.83-5.49)	150		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2153049	1.04		83.3	4080	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.000	1715931	0.9150	Target=3.97	91.5	82.1	M
363.00 > 169.00	3.099	3.099	0.0	1.000	470307		3.65(1.98-5.95)	328		M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	4192168	0.99	Target=3.16	105	1799	
377.00 > 85.00	3.132	3.132	0.0	0.832	1366374		3.07(1.58-4.73)	1017		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.439	-0.001	0.997	331774	1.30		110	39.1	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.438	3.439	-0.001	1.000	609666	1.02		108	425	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.438	3.439	-0.001	0.914	1126702	1.05	Target=5.14	110	30.9	M
449.00 > 99.00	3.438	3.439	-0.001	0.914	234906		4.80(2.57-7.72)	132		
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.448	-0.002	1.000	2528167	1.09		87.0	4882	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.448	-0.002		2809098	1.25			5908	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.448	-0.002	1.000	2271461	1.05	Target=2.79	105	76.9	M
413.00 > 169.00	3.446	3.448	-0.002	1.000	772310		2.94(1.40-4.19)	428		M
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.764	-0.001	1.092	917183	0.8896		74.4	12.0	M
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.764	-0.001	1.000	4288878	4.59	Target=5.11	495	107	M
499.00 > 99.00	3.753	3.764	-0.011	0.997	1003587		4.27(2.55-7.66)	444		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.782	3.783	-0.001	1.000	2112492	0.9579	Target=8.55	95.8	155	
463.00 > 169.00	3.782	3.783	-0.001	1.000	248087		8.52(4.28-12.83)	531		M
D 19 13C5 PFNA										
468.00 > 423.00	3.782	3.783	-0.001	1.097	2657540	1.18		94.1	3305	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.927	3.928	-0.001	1.044	2164156	1.01		108	1883	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	695683	0.9875	Target=2.53	103	41.7	M
549.00 > 99.00	4.050	4.050	0.0	1.076	271967		2.56(1.27-3.80)	144		M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2838691	1.23		98.6	4670	

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	4.081	4.081	0.0	1.000	2434574	0.9886	Target=10.26	98.9	199	
513.00 > 169.00	4.081	4.081	0.0	1.000	240720		10.11(5.13-15.38)		172	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.184	704181	2.26		189	41.0	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.003	1006858	1.06		111	2141	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1263216	0.9840		98.4	866	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1536034	0.8134		65.1	2111	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.224	747834	1.59		128	536	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.228	0.0	1.002	534170	1.03		103	631	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.319	4.331	-0.012	1.148	524935	0.9437	Target=2.51	97.9	21.2	M
599.00 > 99.00	4.319	4.331	-0.012	1.148	200494		2.62(1.25-3.76)		139	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.260	2620546	1.24		99.4	4262	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.353	-0.011	1.000	2194327	1.04	Target=9.88	104	135	M
563.00 > 169.00	4.342	4.353	-0.011	1.000	215834		10.17(4.94-14.82)		275	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	0.0	1.003	682032	1.17		117	1139	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.263	813768	1.76		141	818	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.181	3097841	0.9381		99.6	2530	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.591	-0.011	1.000	2067561	1.03	Target=7.77	103	185	
613.00 > 169.00	4.580	4.591	-0.011	1.000	247556		8.35(3.89-11.66)		520	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.329	2358107	1.10		87.8	3508	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.602	4.612	-0.010	1.128	663225	1.16		120	3192	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.265	196325	0.8341	Target=0.50	86.2	12.9	M
699.00 > 99.00	4.758	4.776	-0.018	1.265	374141		0.52(0.25-0.76)		416	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.047	1670421	0.8739	Target=5.21	87.4	199	M
663.00 > 169.00	4.794	4.804	-0.010	1.047	296237		5.64(2.60-7.81)		346	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.992	5.012	-0.020	1.000	187653	0.9545	Target=0.89	95.5	476	
713.00 > 219.00	4.982	5.012	-0.030	0.998	195824		0.96(0.44-1.33)		388	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.992	5.012	-0.020	1.448	1795021	0.9658		77.3	4643	

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	5.344	5.367	-0.023	1.000	1342163	1.03	Target=5.65	103	431	
813.00 > 169.00	5.344	5.367	-0.023	1.000	221967		6.05(2.82-8.47)		705	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.551	1744835	0.7594		60.7	2962	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.686	5.722	-0.036	1.064	1300235	1.13	Target=6.24	113	428	M
913.00 > 169.00	5.686	5.722	-0.036	1.064	186463		6.97(3.12-9.36)		384	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d

Injection Date: 05-Jan-2023 17:00:14

Instrument ID: LC812

Lims ID: 460-271803-A-3-B MS

Client ID: SED-3

Operator ID: lc812tech

ALS Bottle#: 14

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

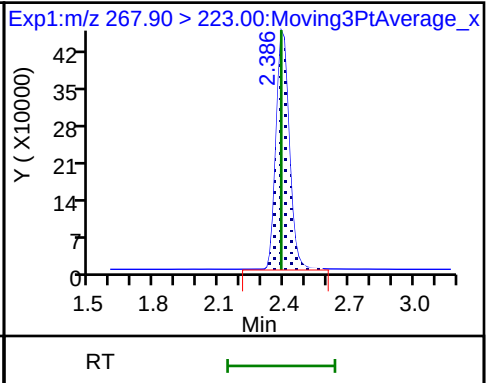
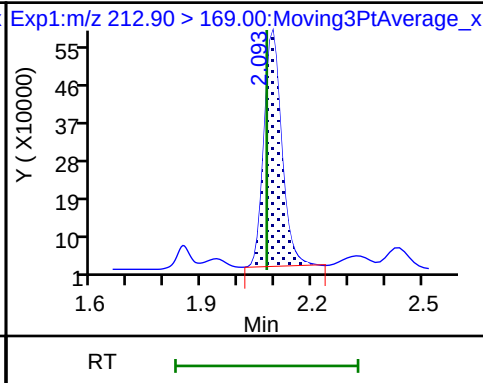
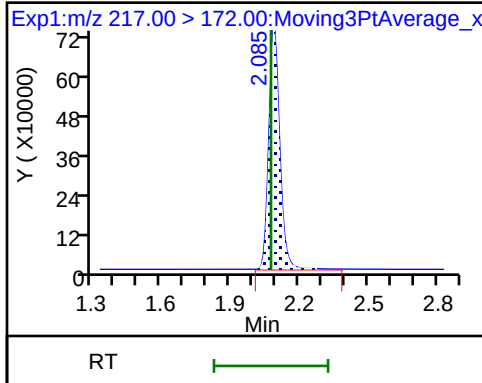
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

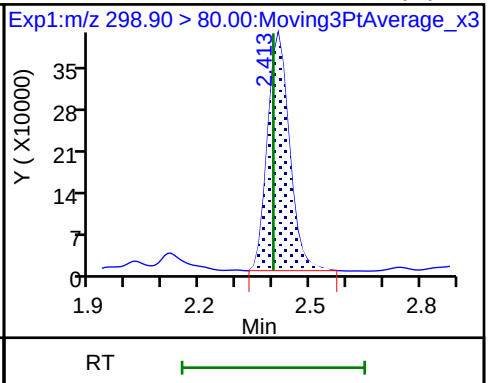
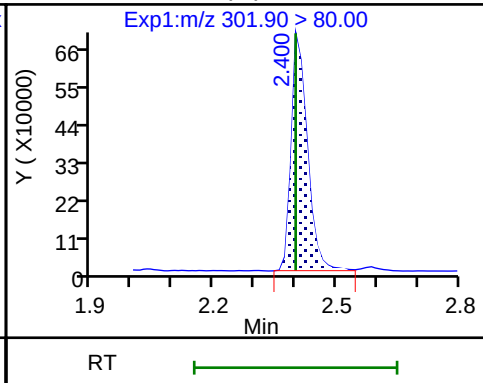
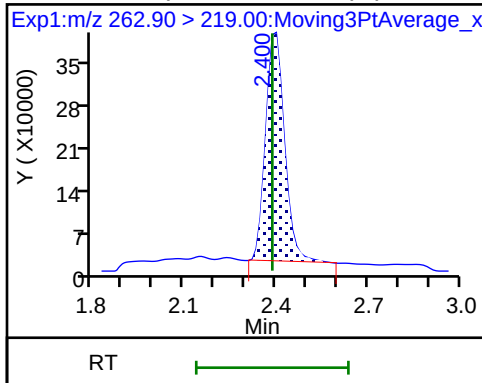
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

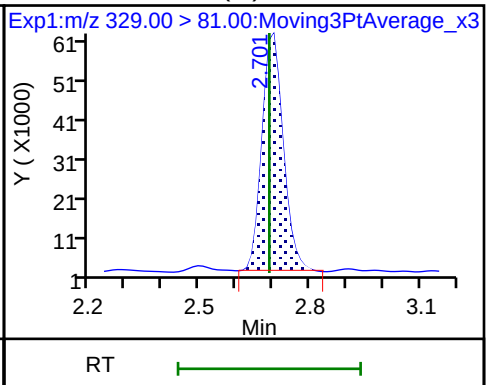
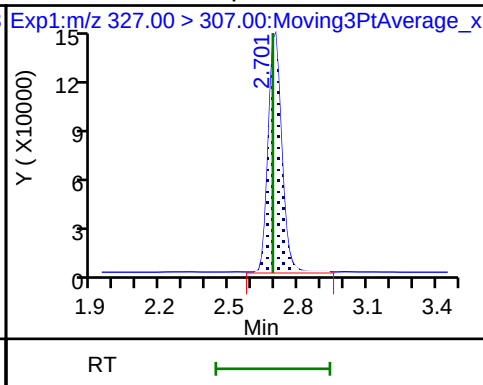
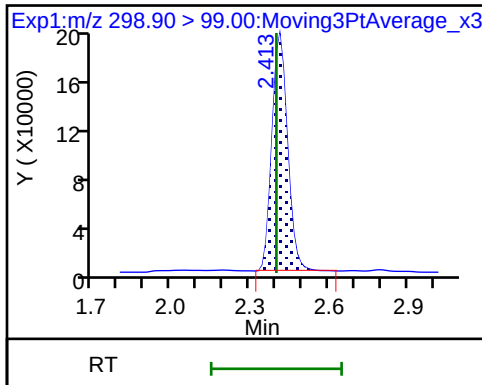
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

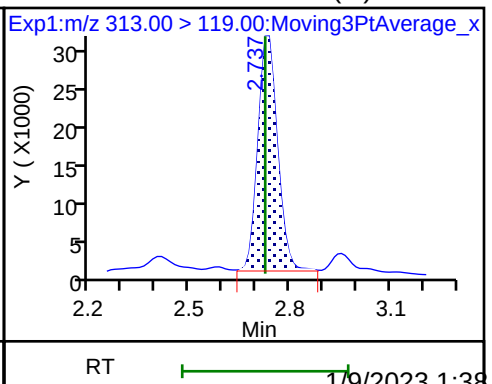
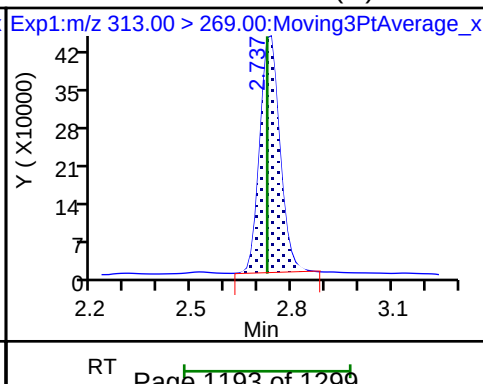
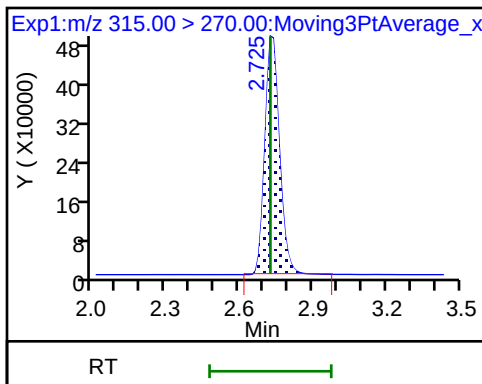
D 60 M2-4:2 FTS (M)

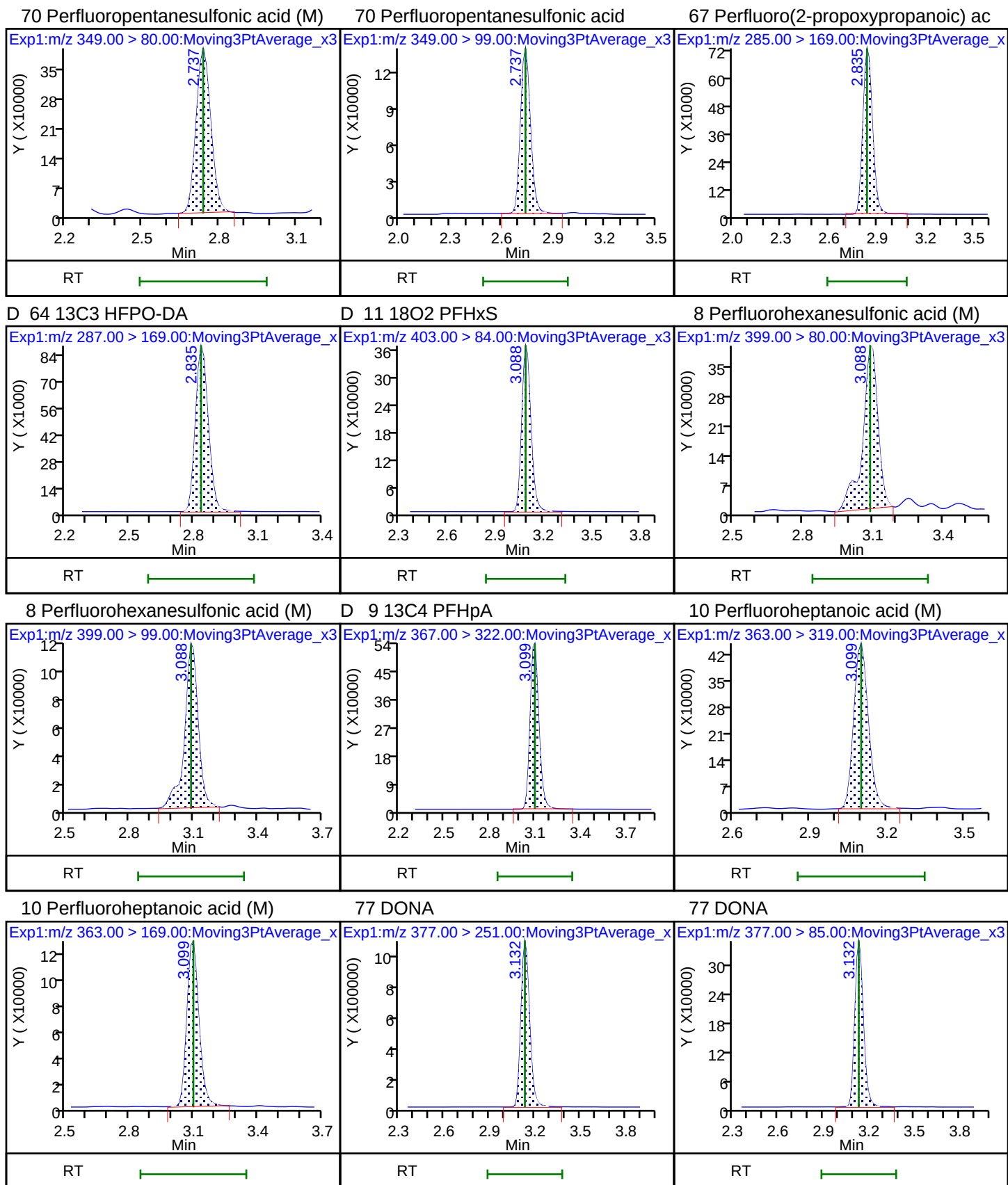


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

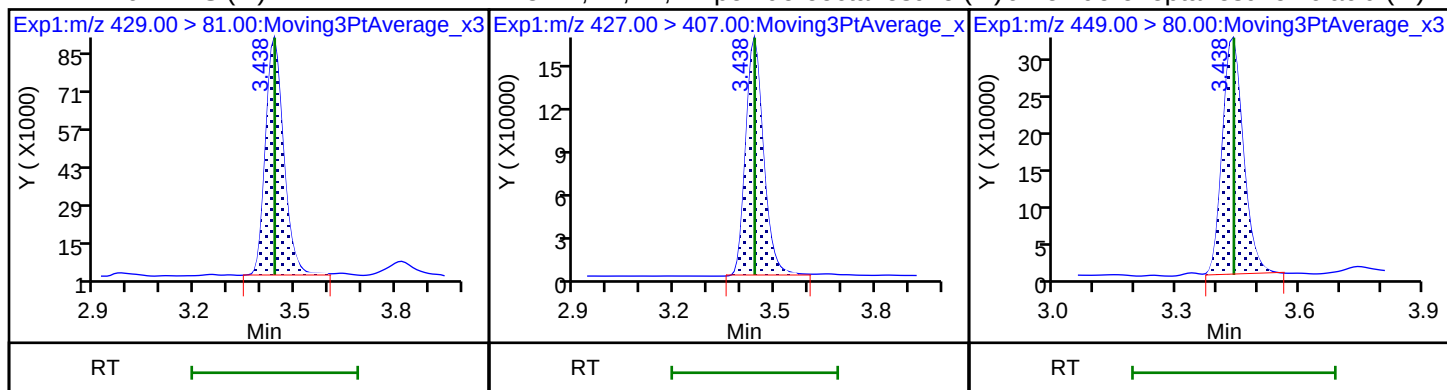




D 12 M2-6:2 FTS (M)

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

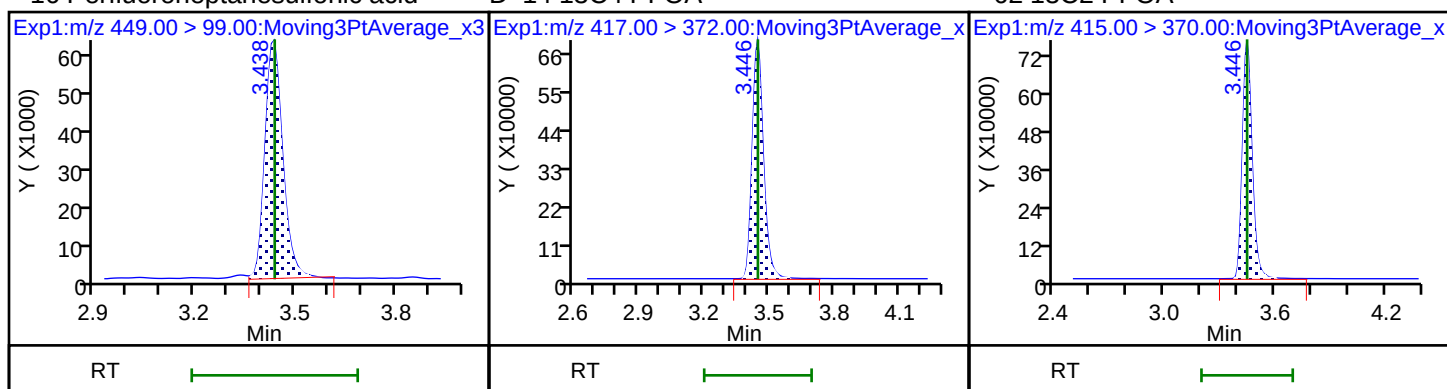
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

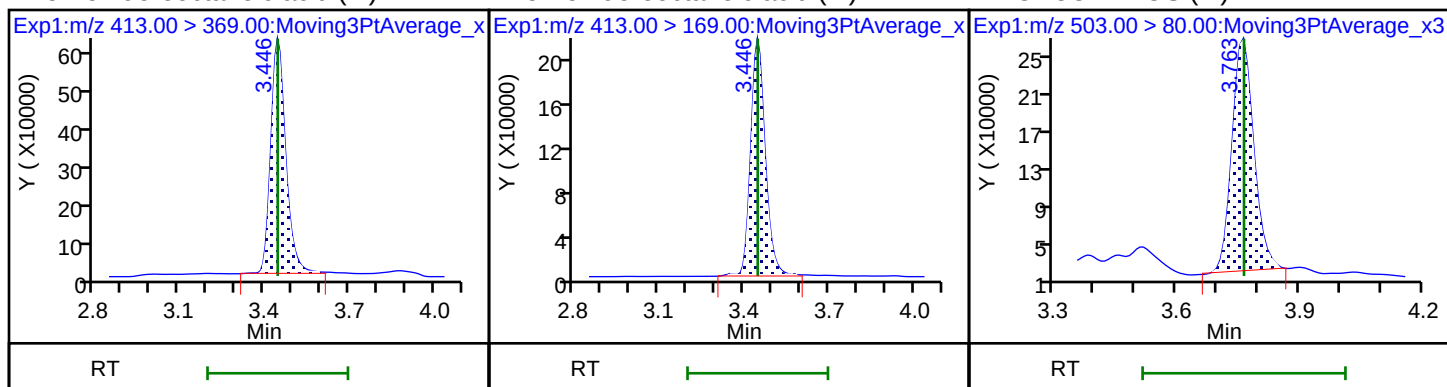
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

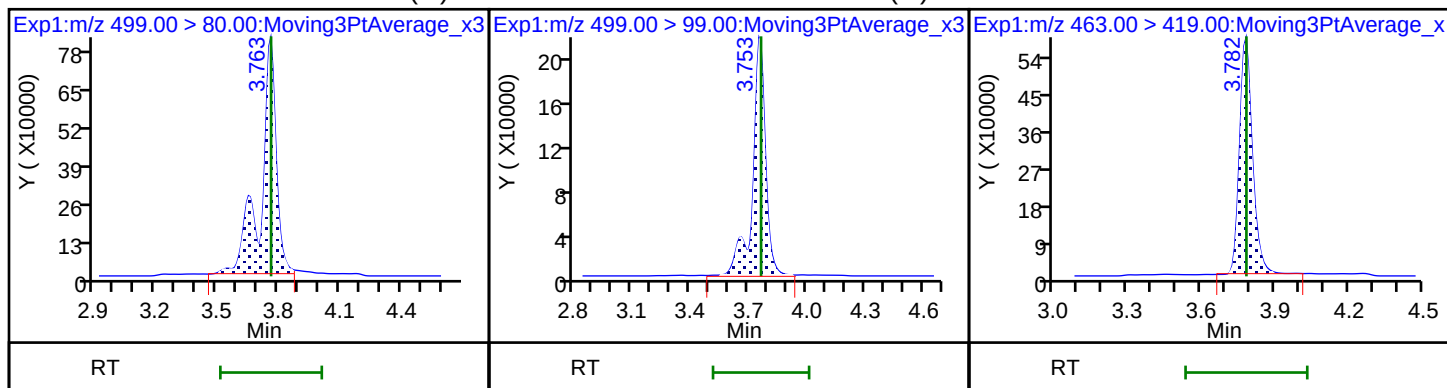
D 18 13C4 PFOS (M)

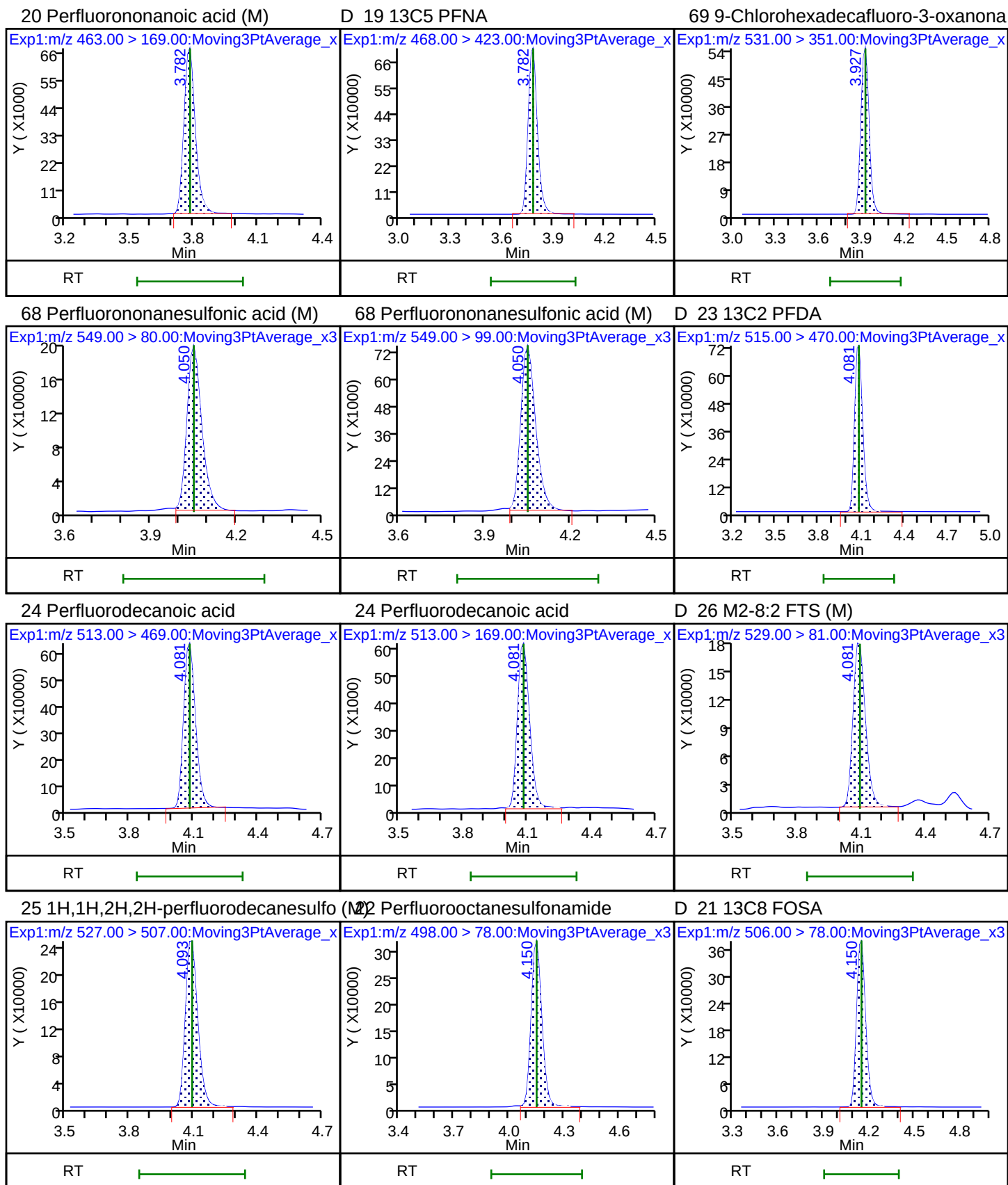


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

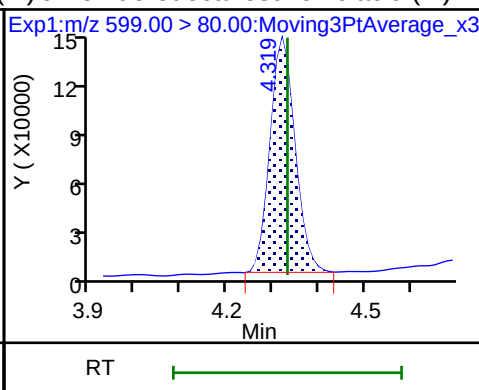
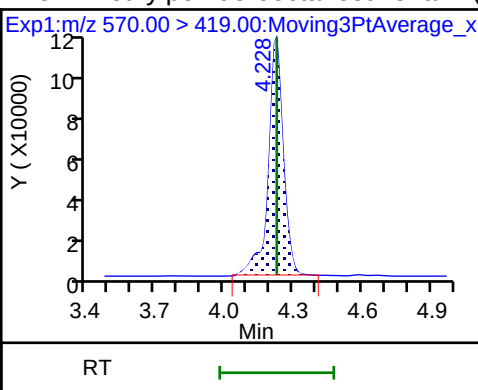
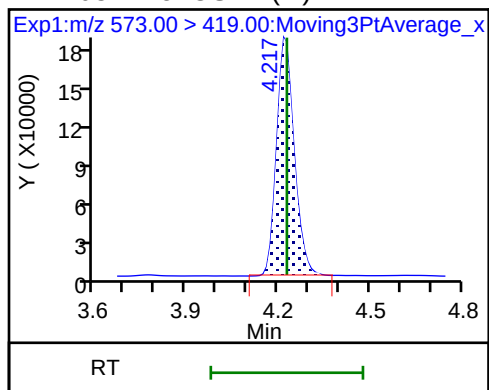




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

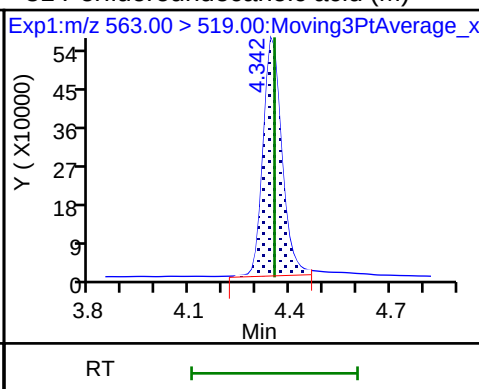
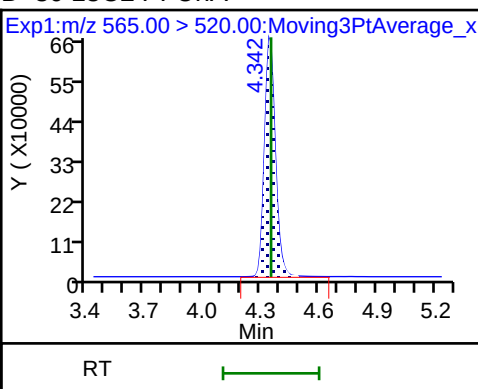
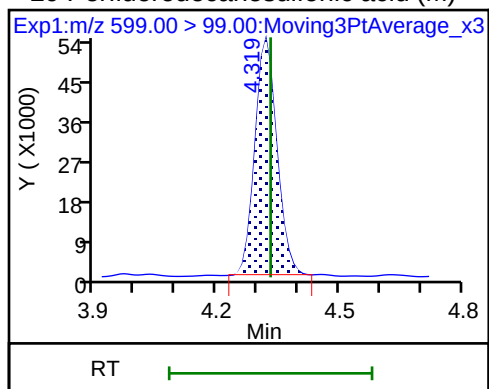
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUaA

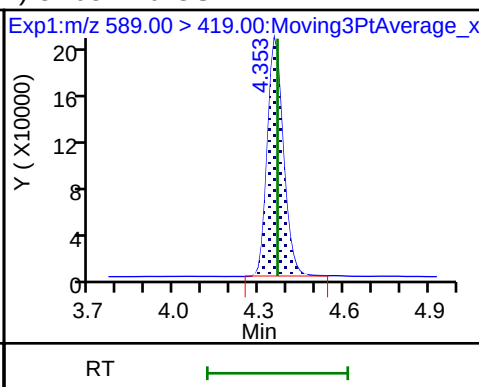
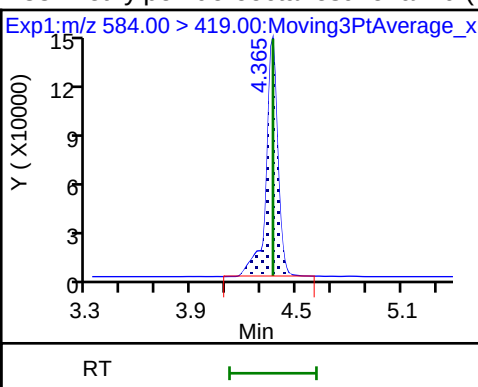
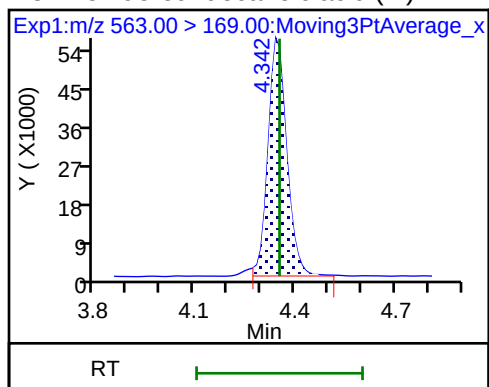
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

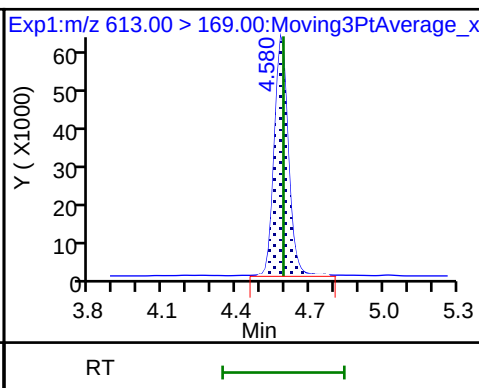
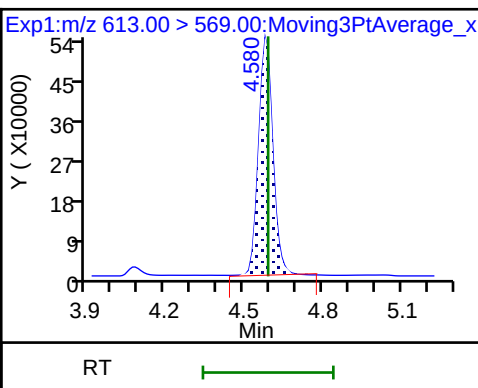
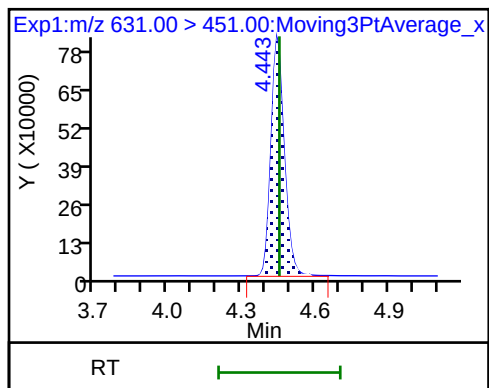
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

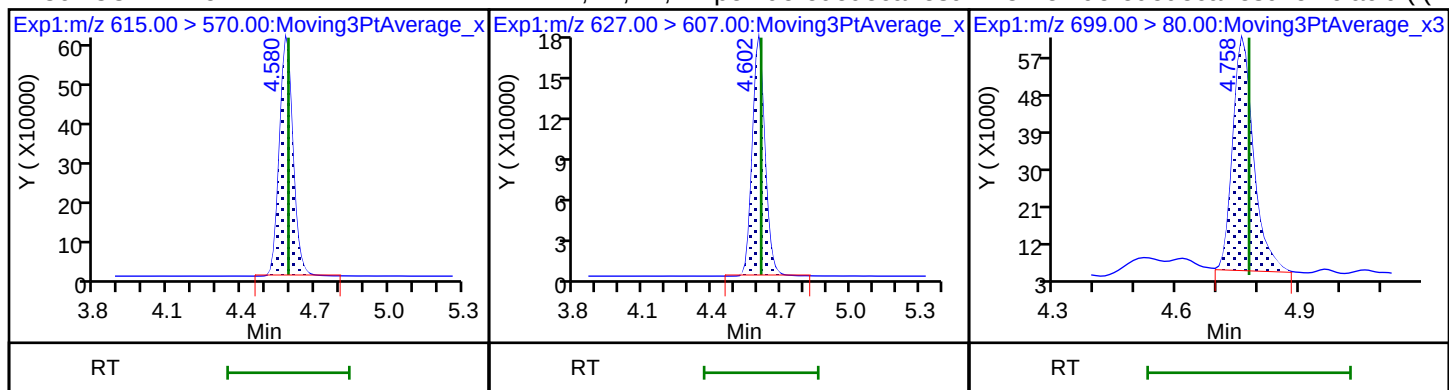
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

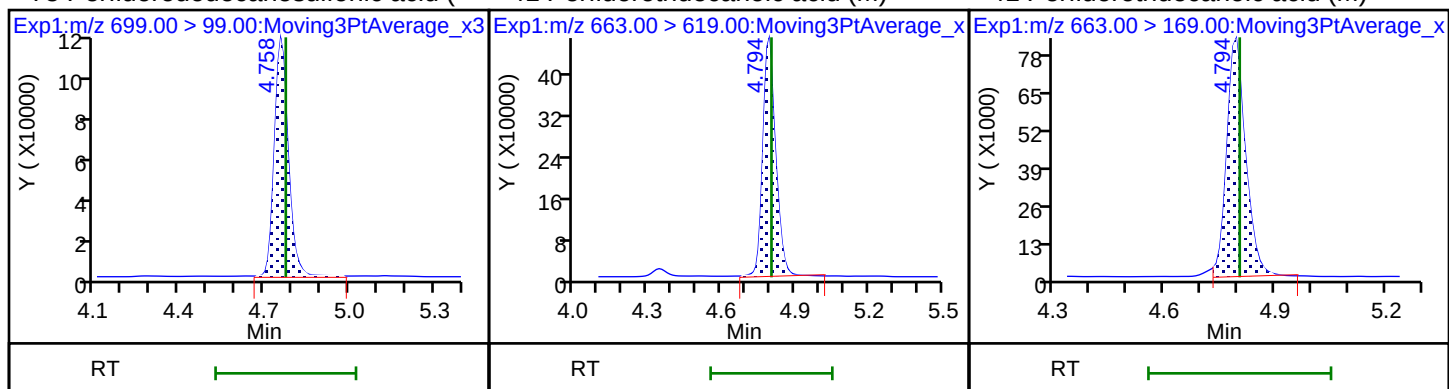
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

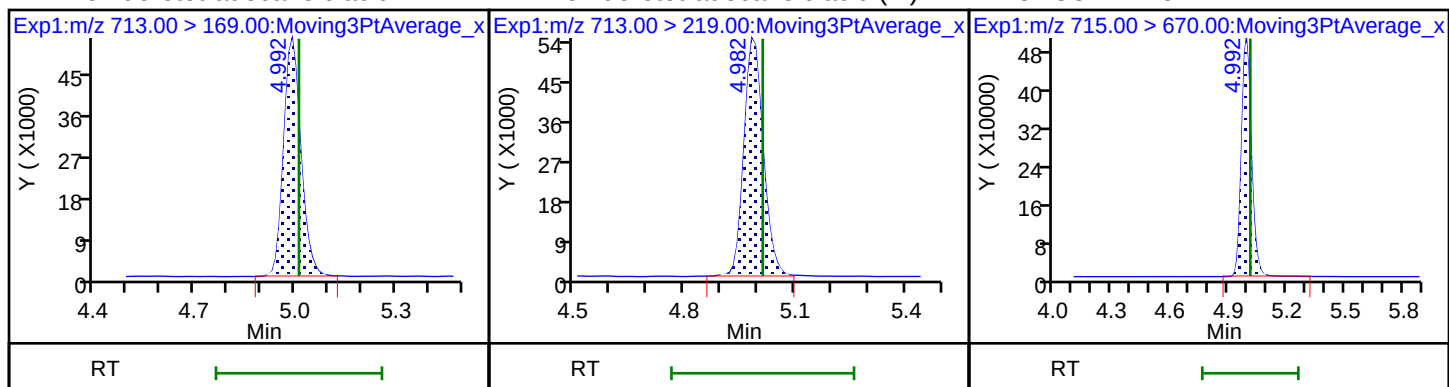
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

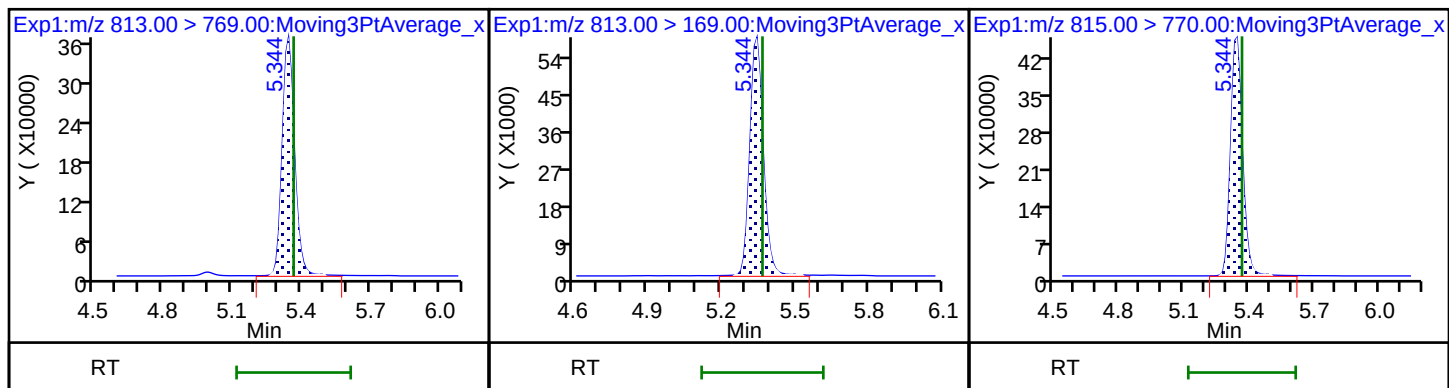
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

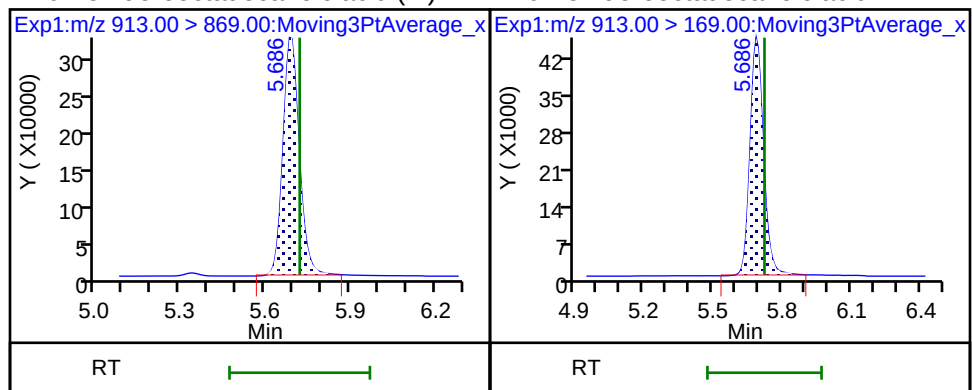
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

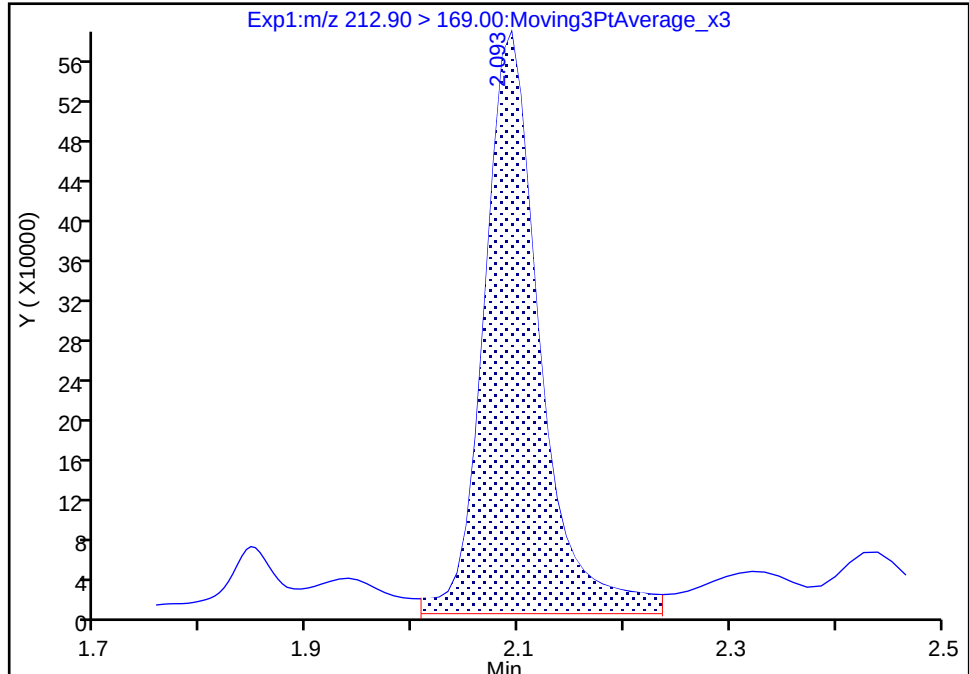
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

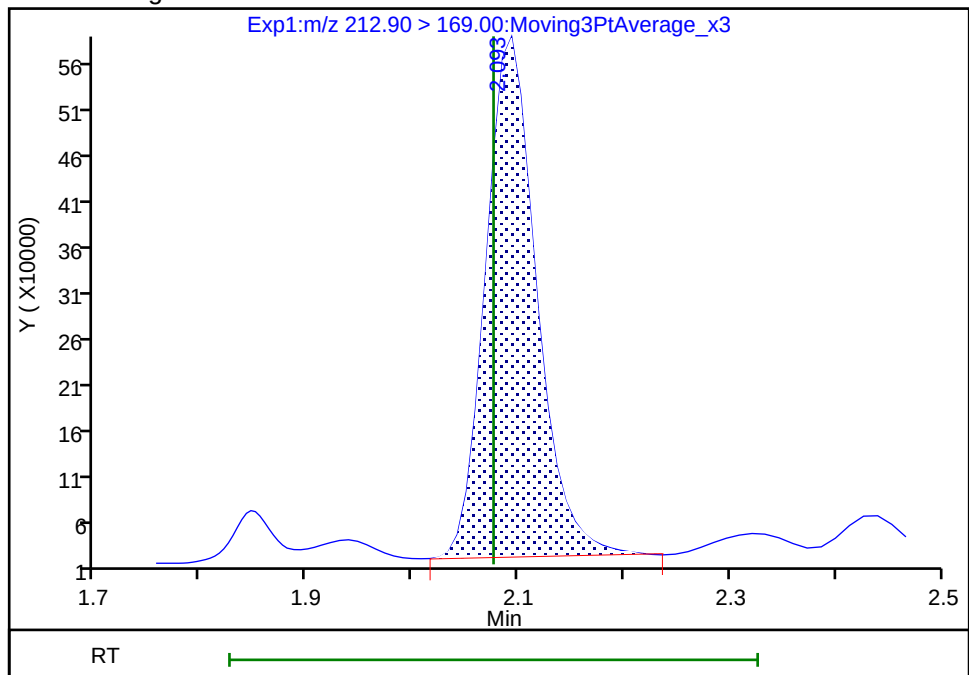
RT: 2.09
Area: 2160238
Amount: 1.051742
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1917135
Amount: 0.933384
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:33:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

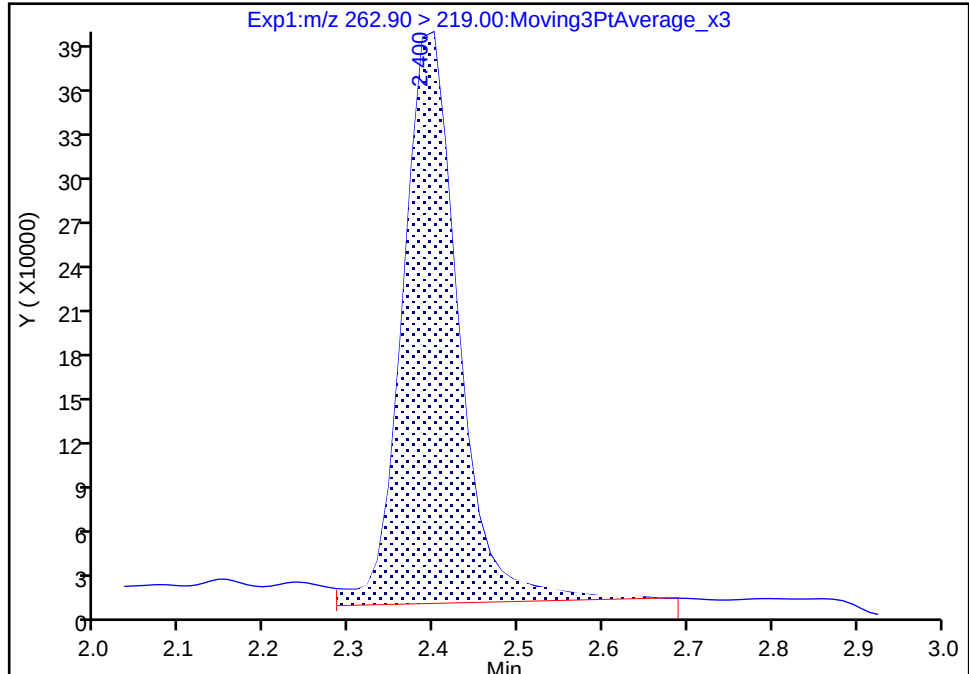
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

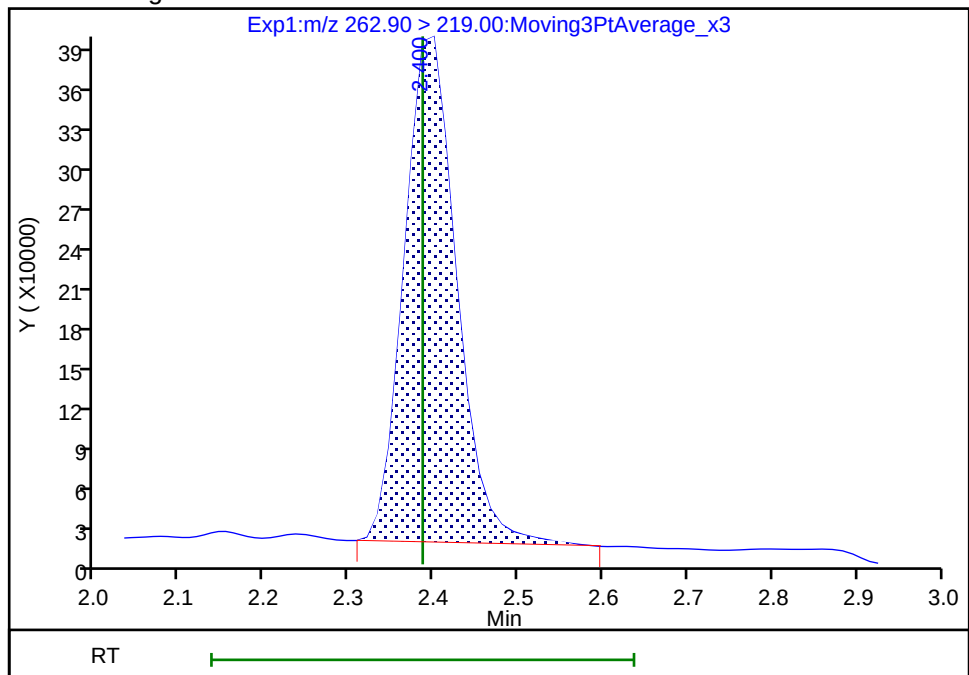
RT: 2.40
Area: 1791363
Amount: 1.088256
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1641821
Amount: 0.997409
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:33:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

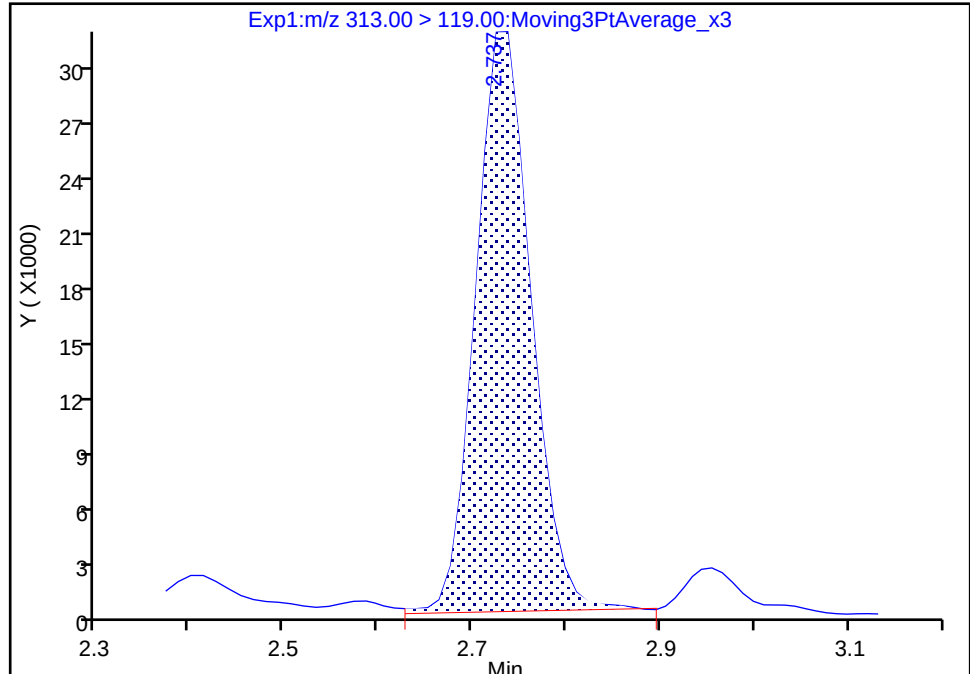
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

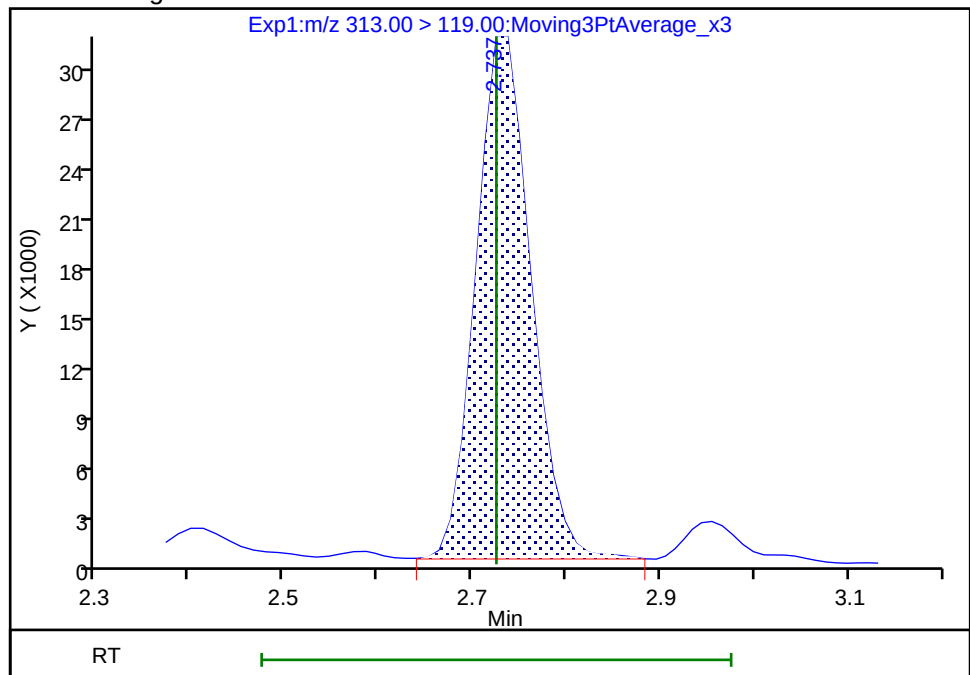
RT: 2.74
Area: 127993
Amount: 1.073854
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 125418
Amount: 1.016042
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:33:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

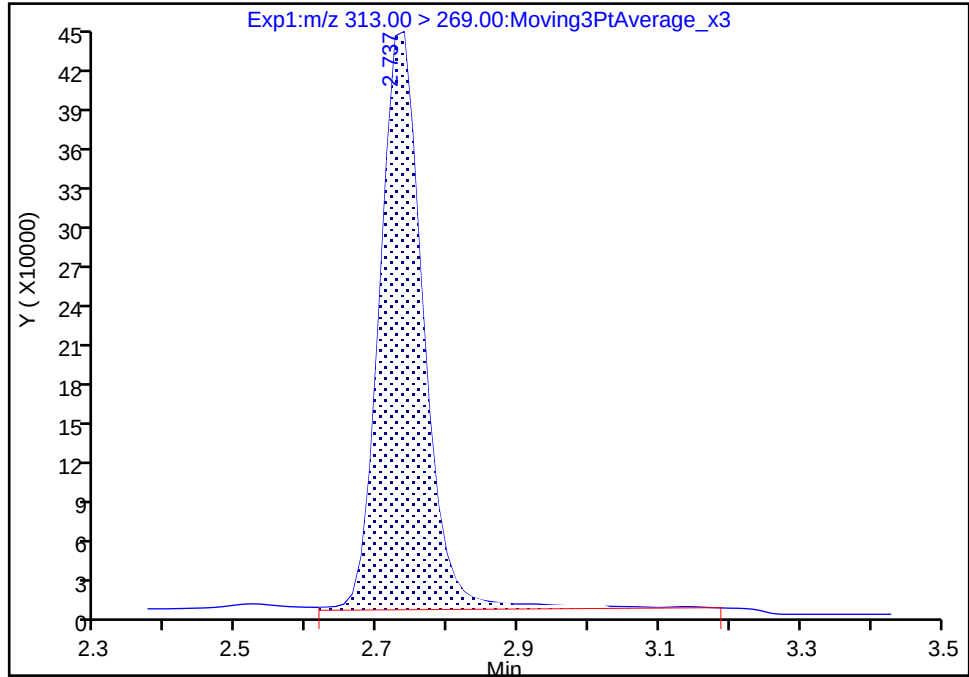
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

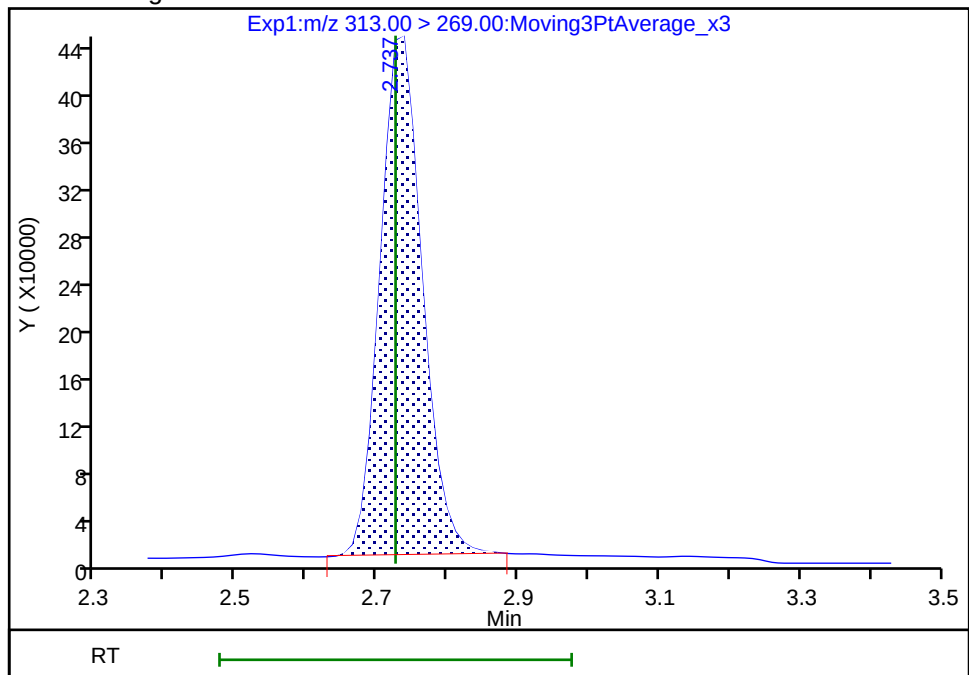
RT: 2.74
Area: 1925503
Amount: 1.073854
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1821841
Amount: 1.016042
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:33:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

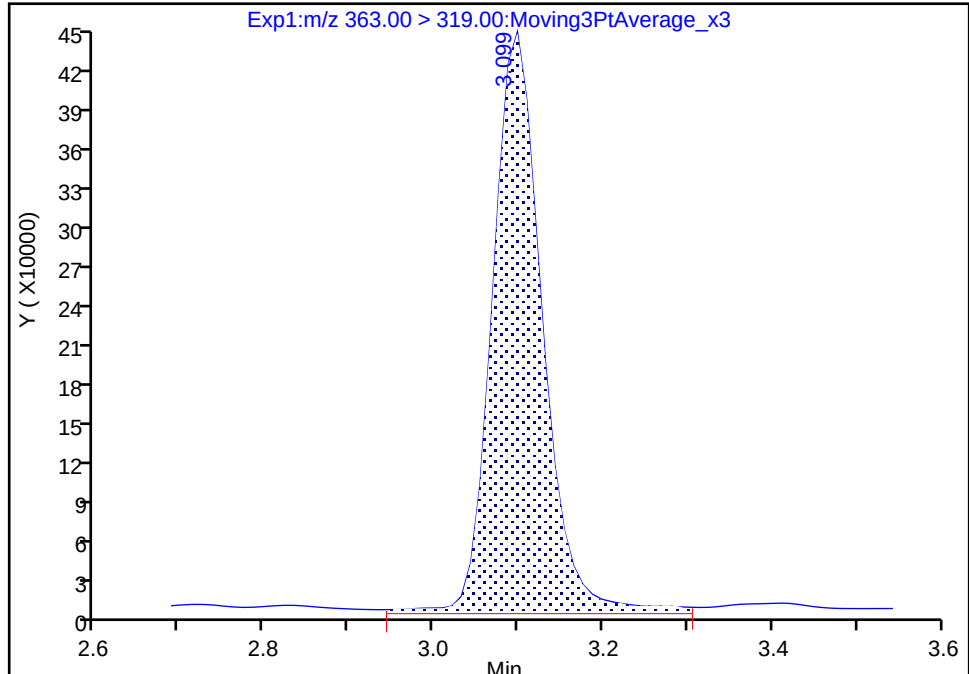
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

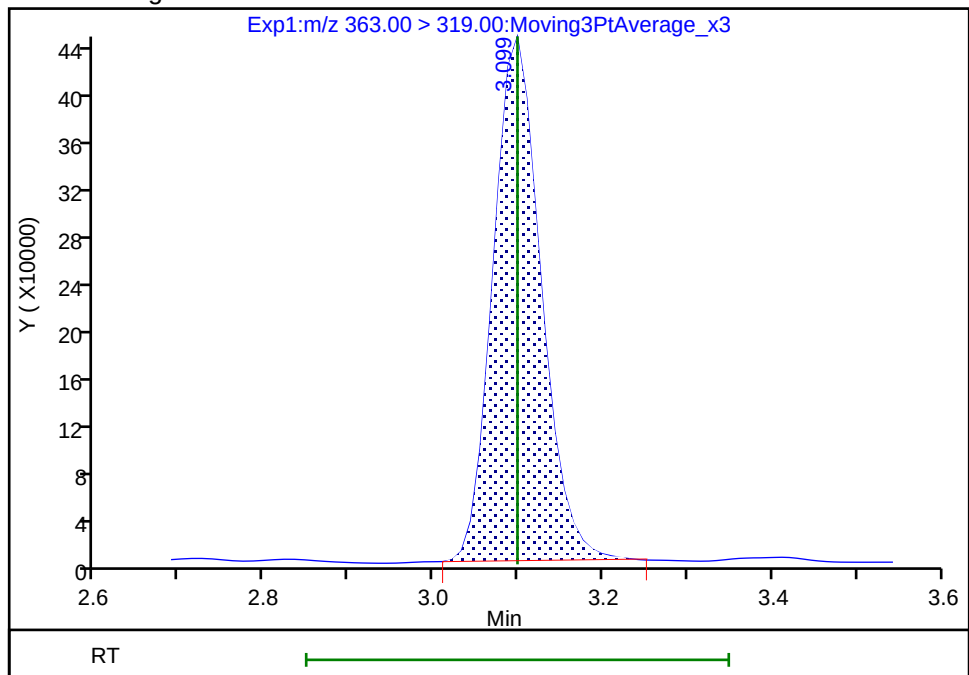
RT: 3.10
Area: 1832439
Amount: 0.977112
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1715931
Amount: 0.914987
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

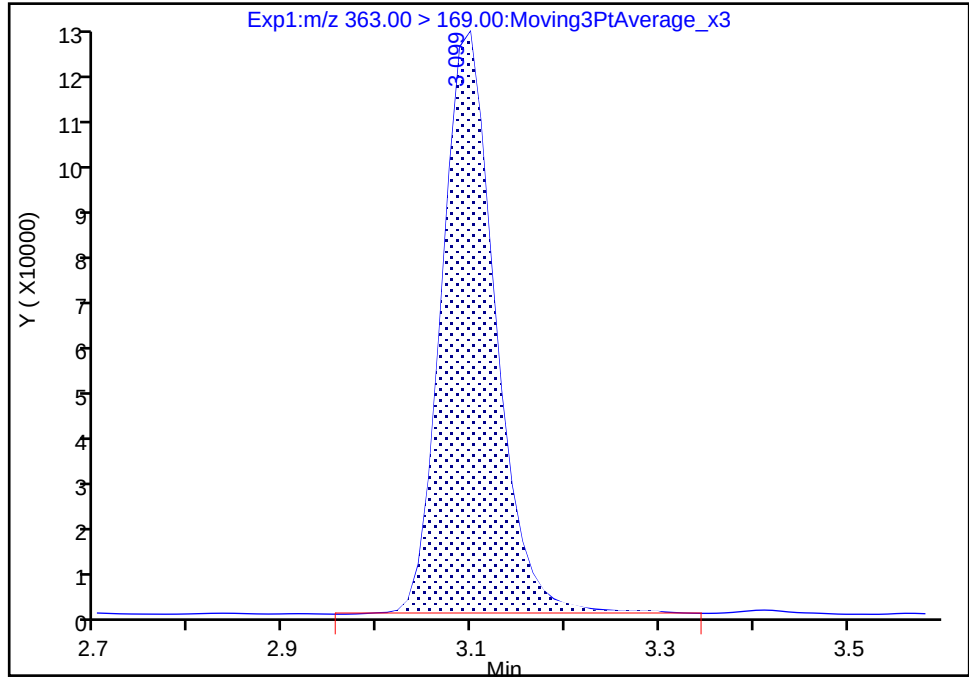
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

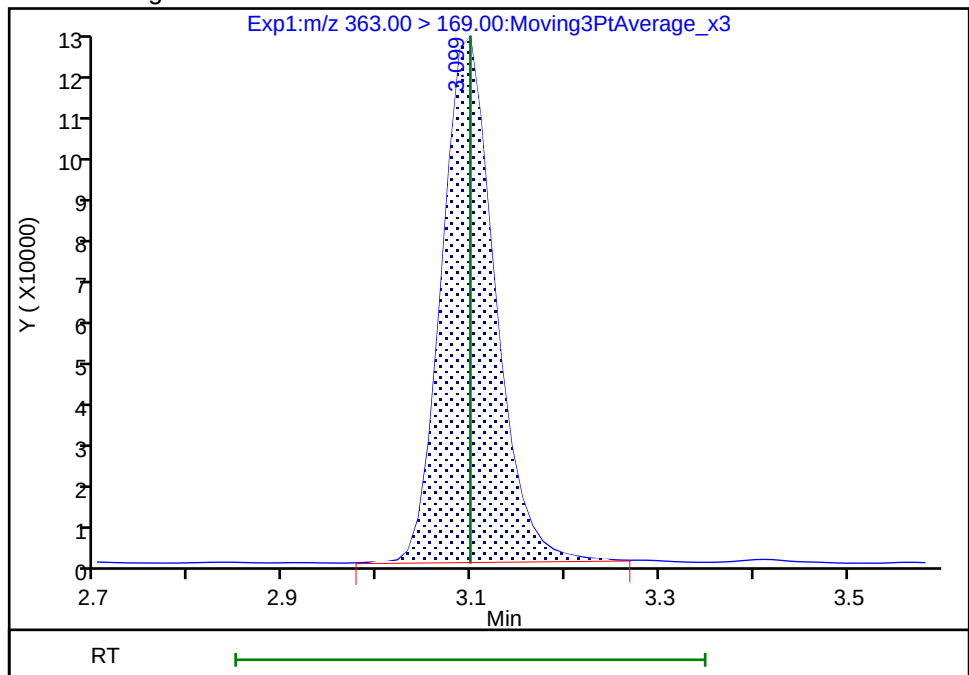
RT: 3.10
Area: 478718
Amount: 0.977112
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 470307
Amount: 0.914987
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

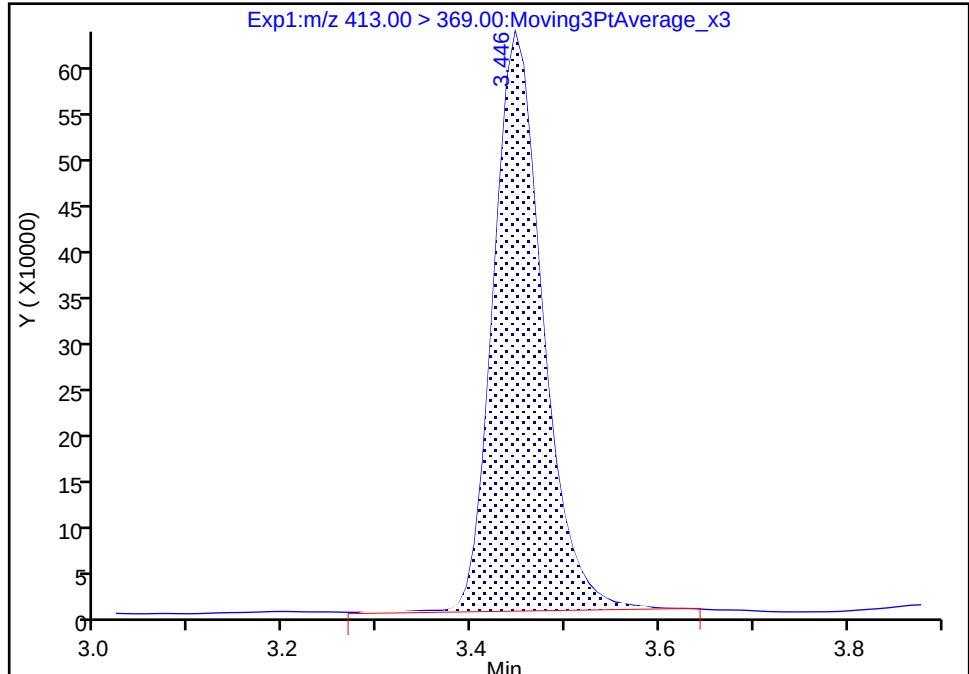
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

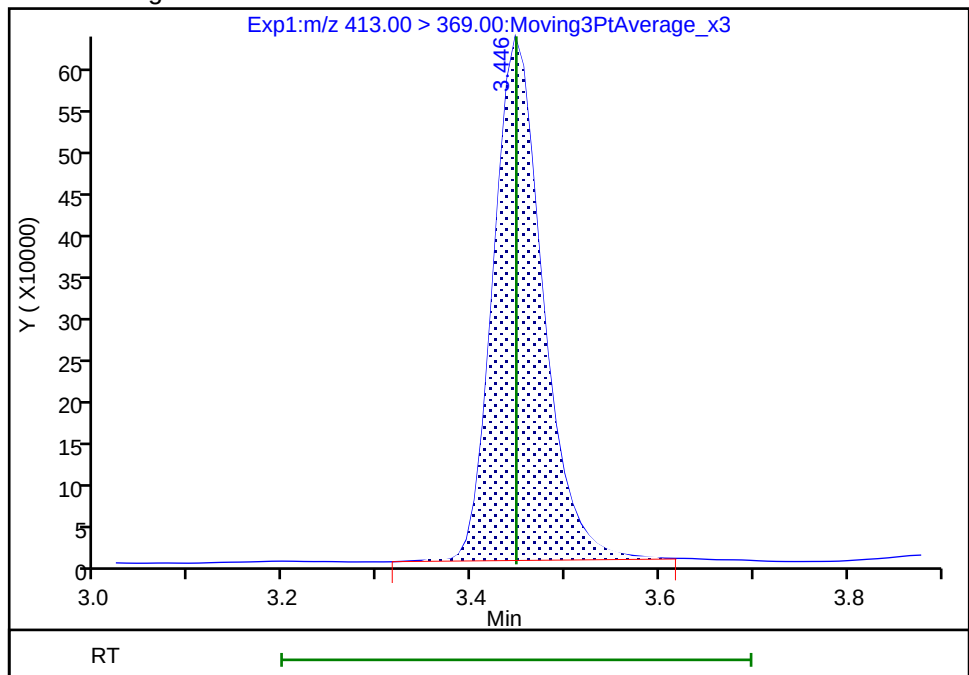
RT: 3.45
Area: 2303049
Amount: 1.065159
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 2271461
Amount: 1.050550
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

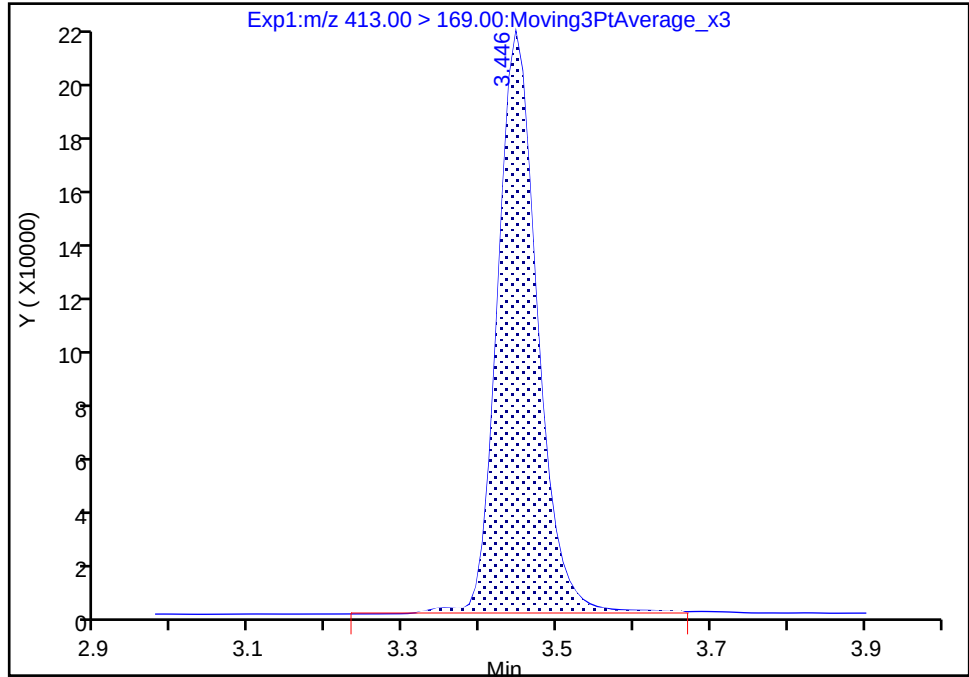
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

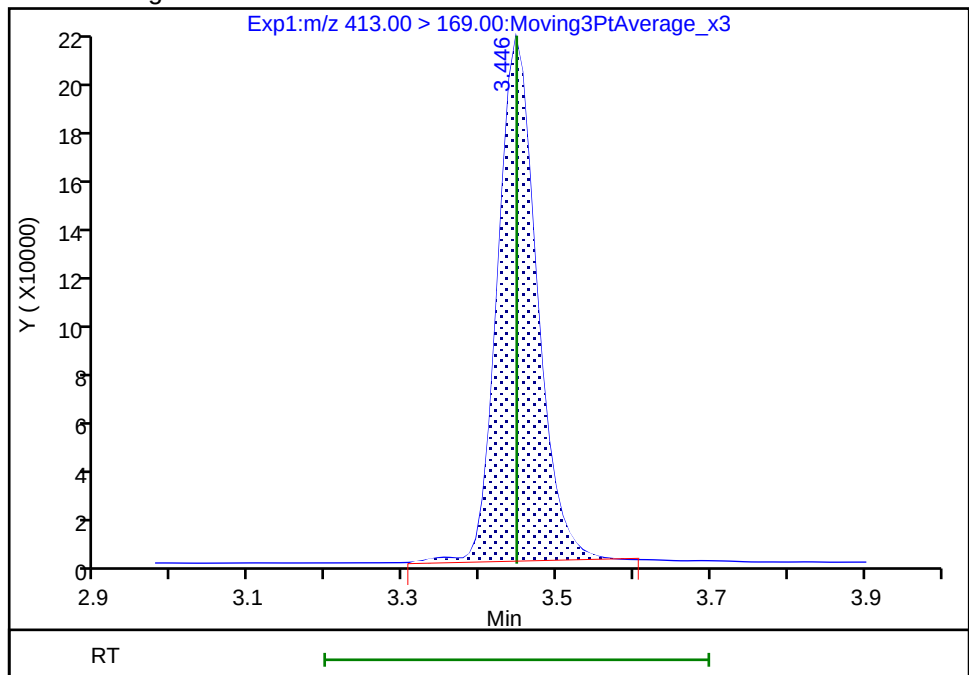
RT: 3.45
Area: 779938
Amount: 1.065159
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 772310
Amount: 1.050550
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

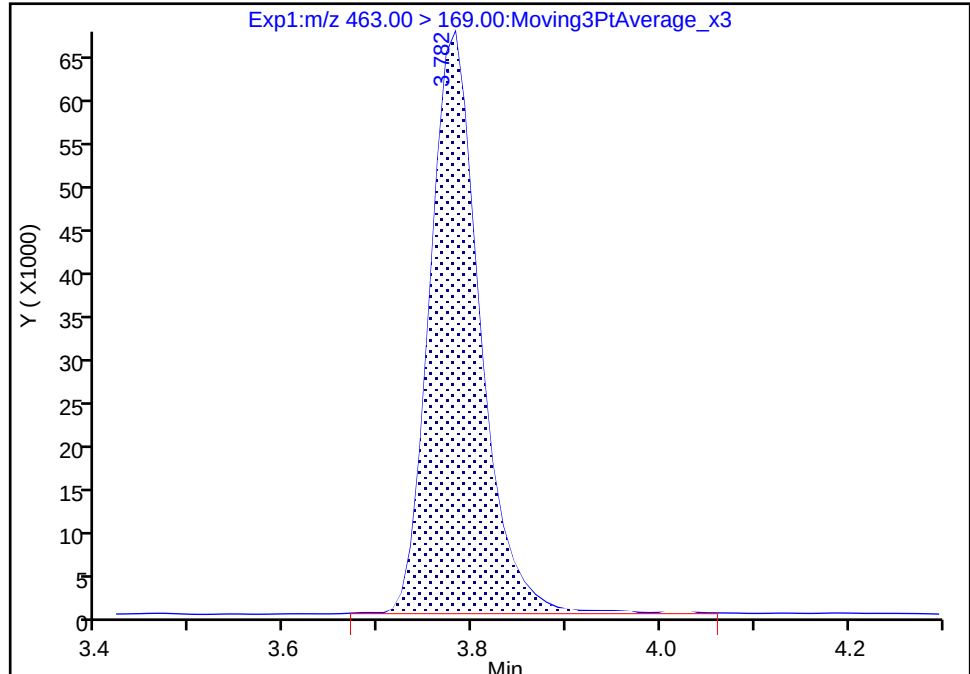
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

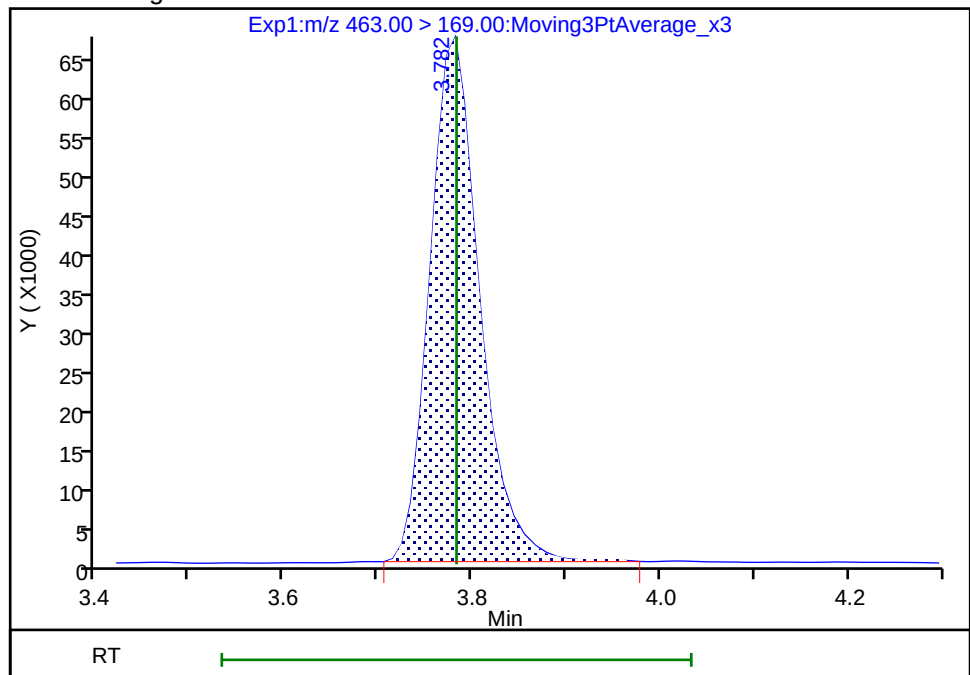
RT: 3.78
Area: 249569
Amount: 0.957851
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 248087
Amount: 0.957851
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:35:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

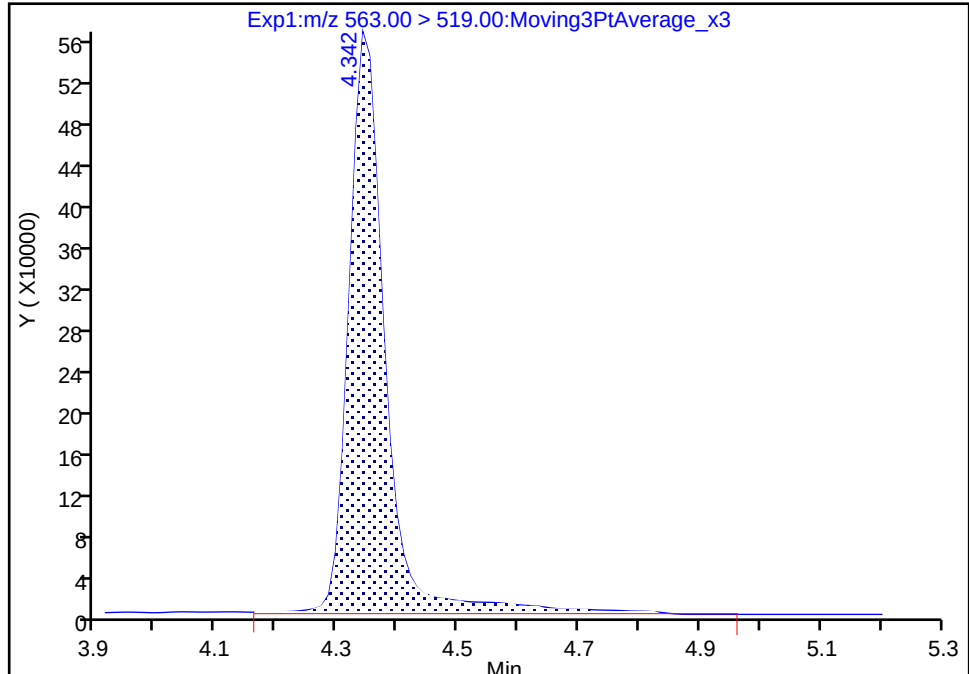
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

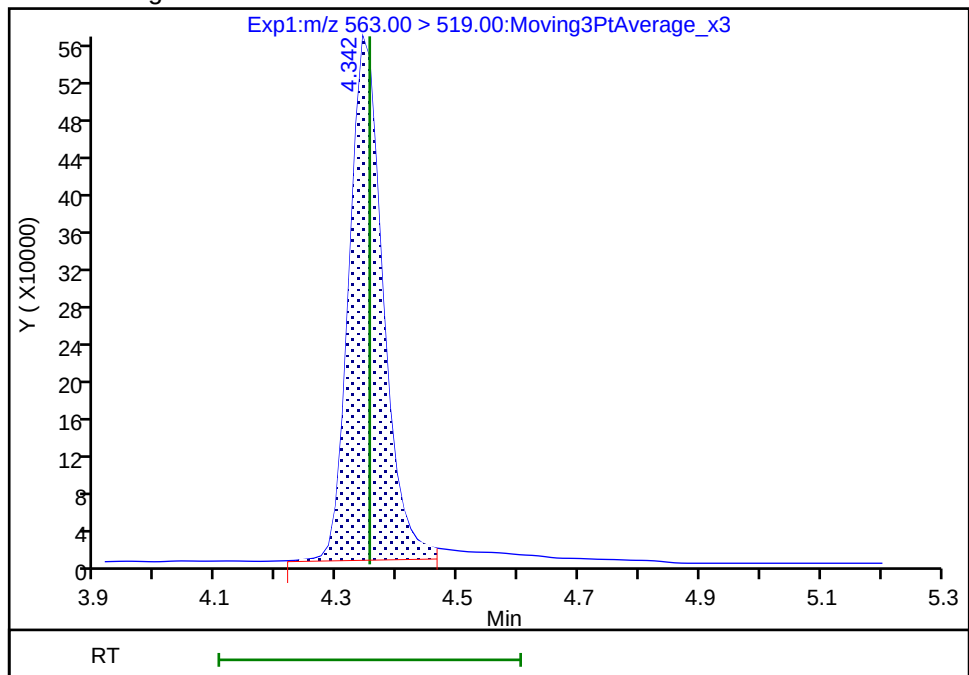
RT: 4.34
Area: 2426226
Amount: 1.148349
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 2194327
Amount: 1.038590
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:36:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

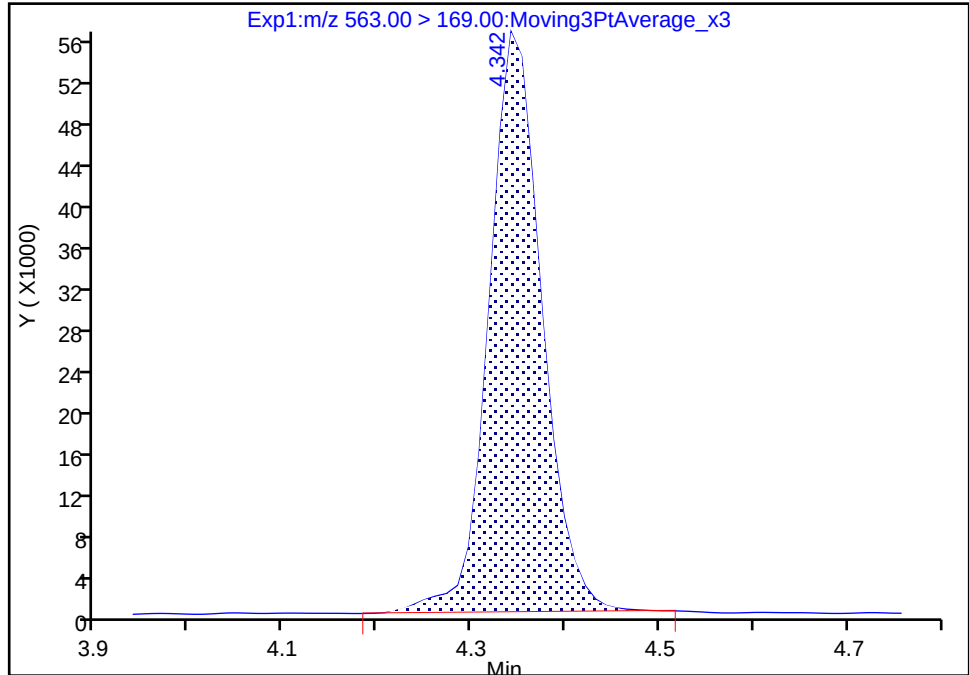
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

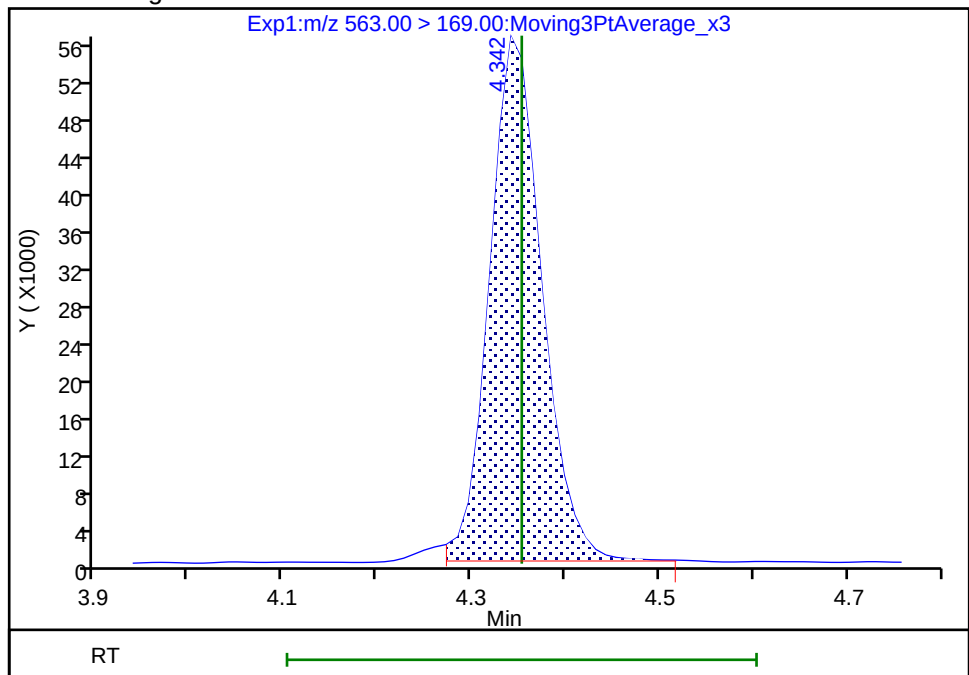
RT: 4.34
Area: 219472
Amount: 1.148349
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 215834
Amount: 1.038590
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:36:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

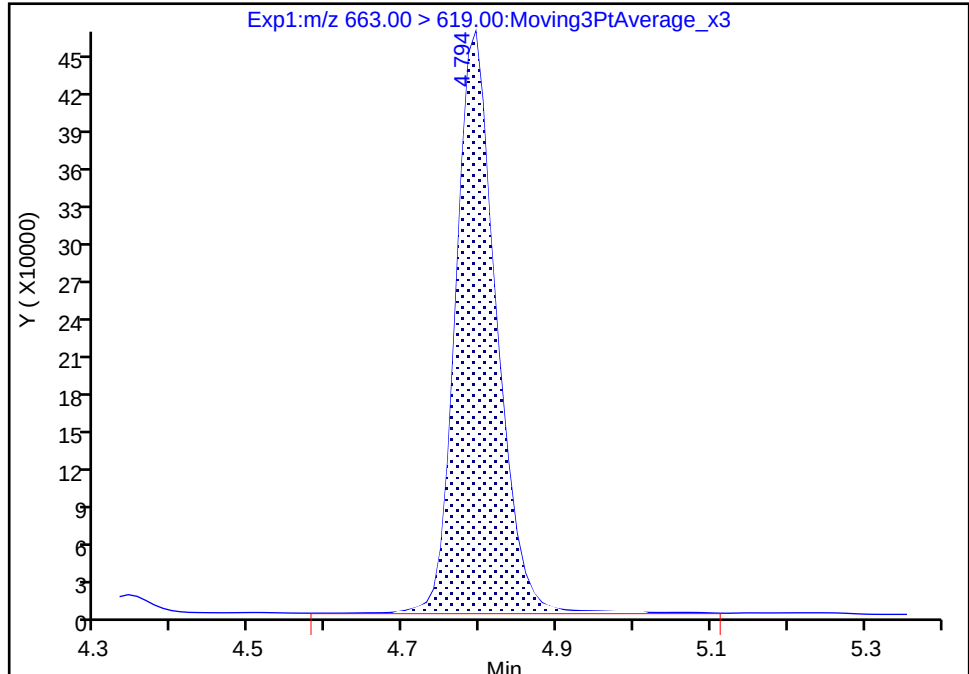
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Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

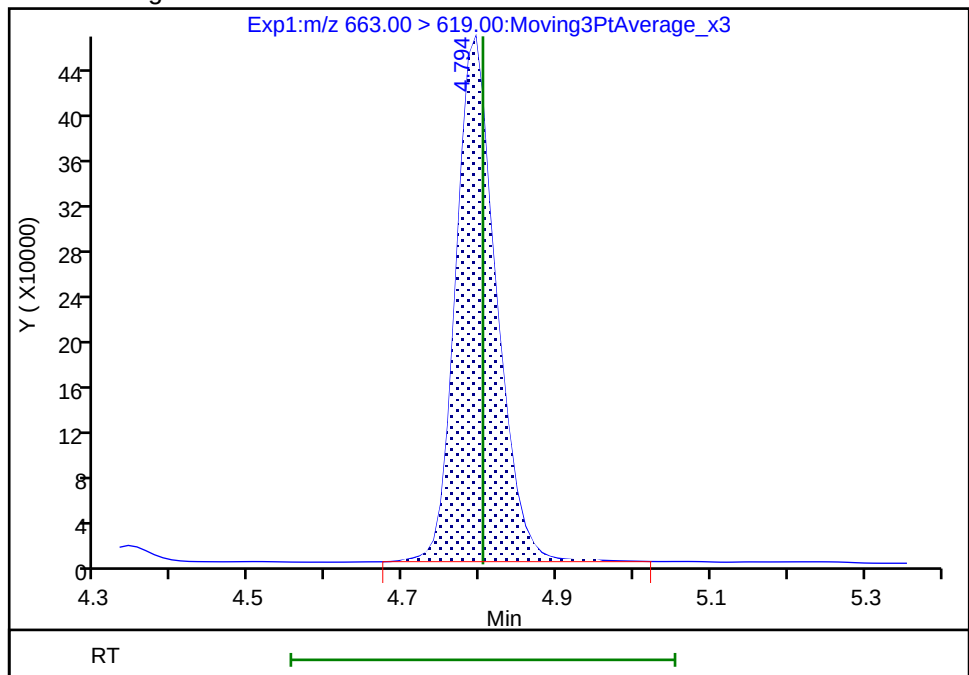
RT: 4.79
Area: 1692639
Amount: 0.885531
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 1670421
Amount: 0.873907
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:36:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

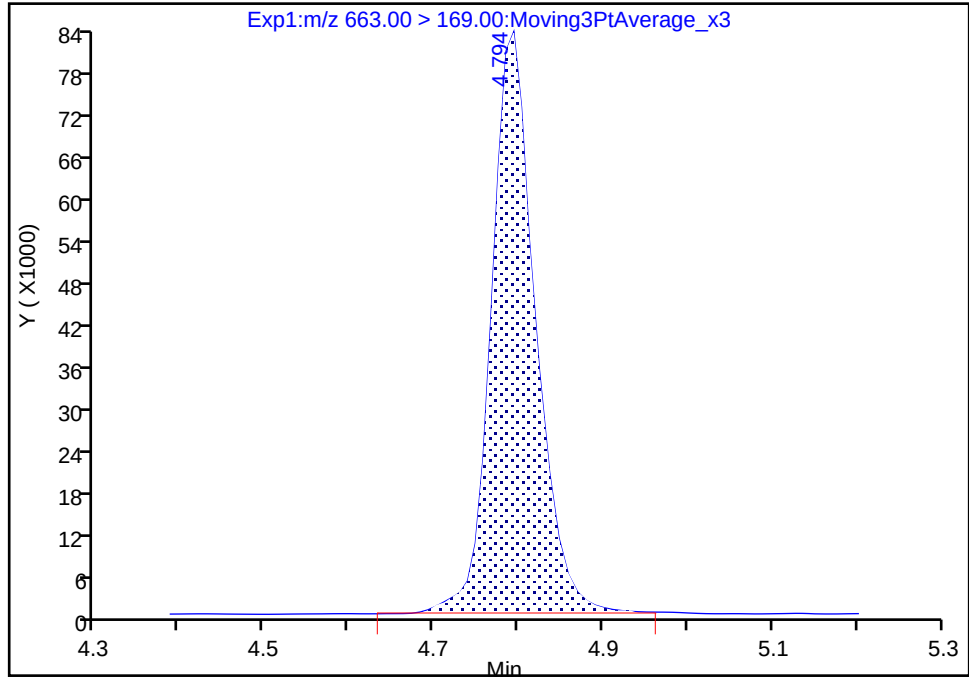
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

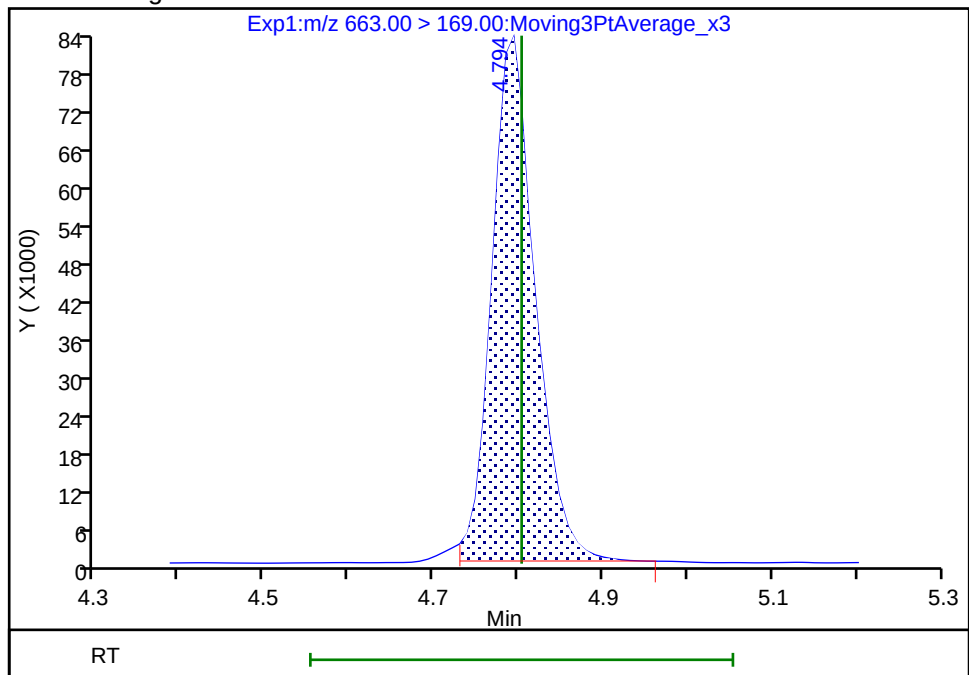
RT: 4.79
Area: 300321
Amount: 0.885531
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 296237
Amount: 0.873907
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:43:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

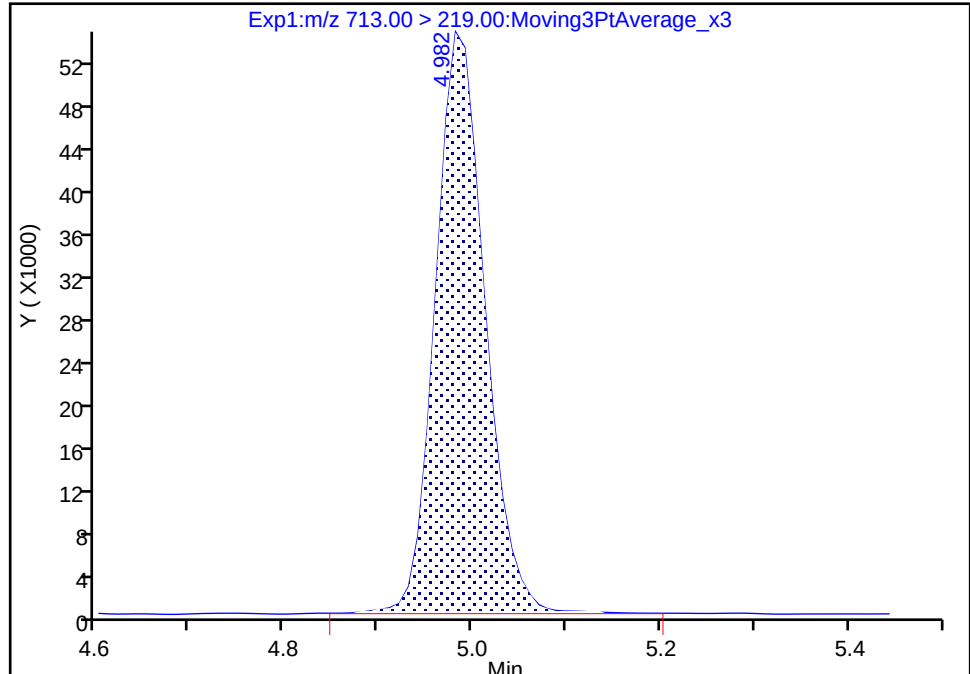
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

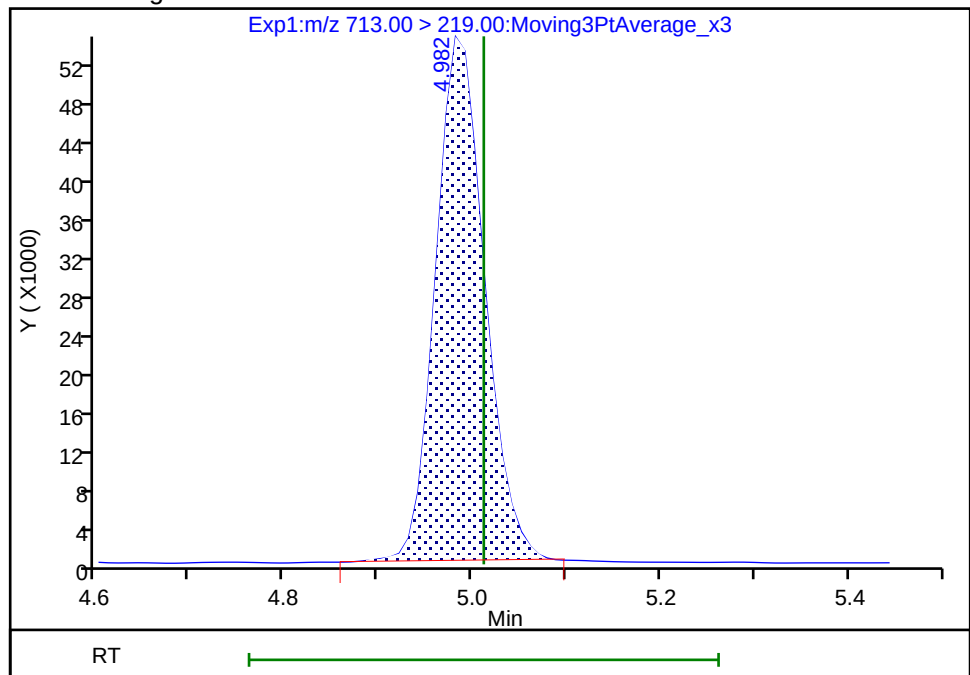
RT: 4.98
Area: 198645
Amount: 0.954522
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 195824
Amount: 0.954522
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:36:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

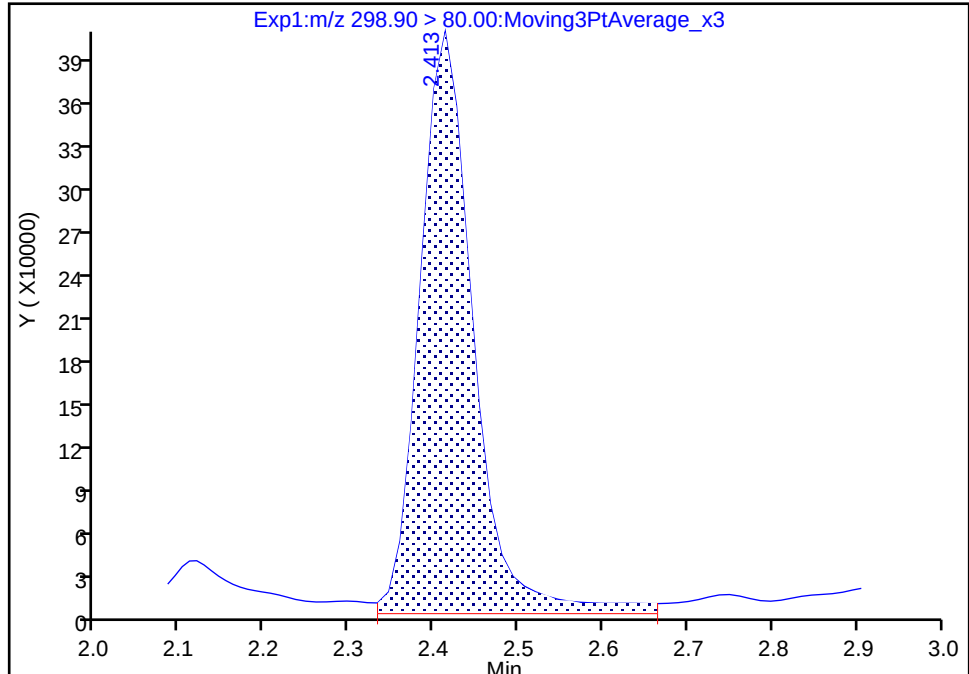
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

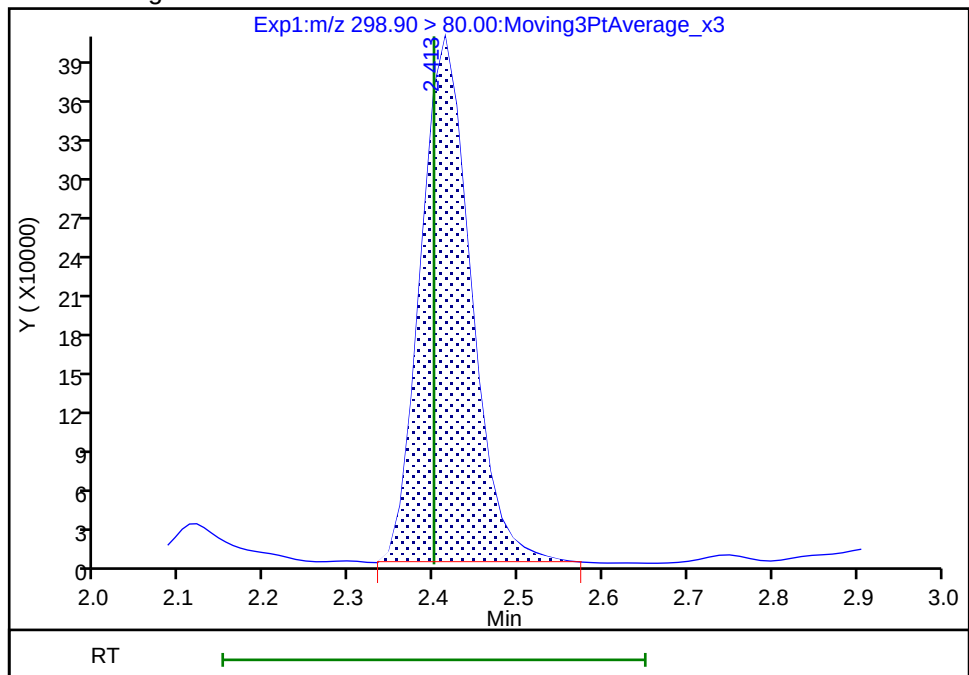
RT: 2.41
Area: 1799882
Amount: 0.964824
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1640220
Amount: 0.879237
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:33:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

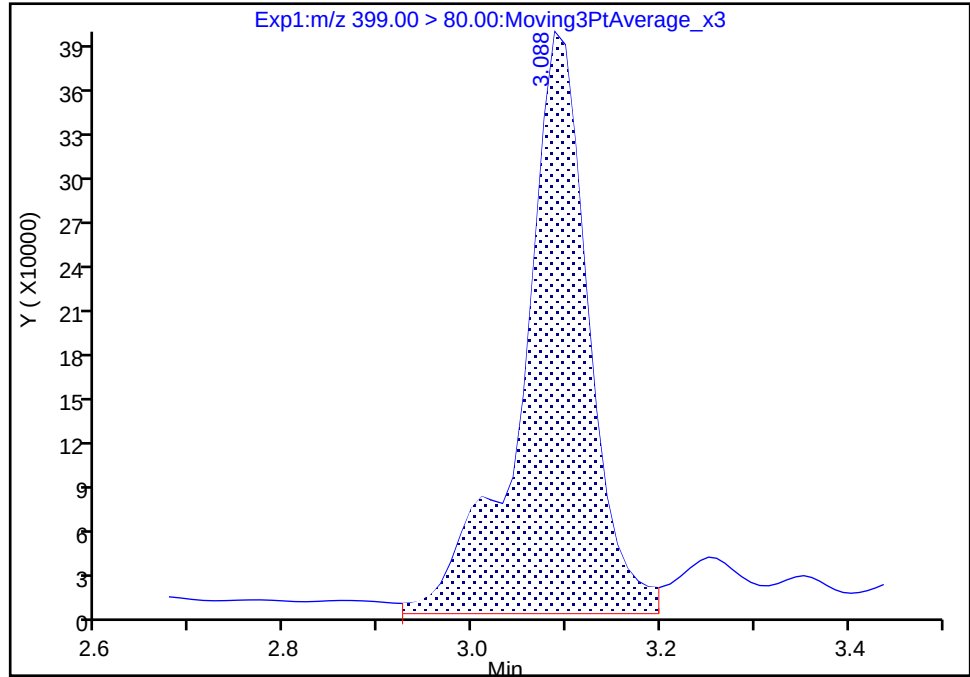
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

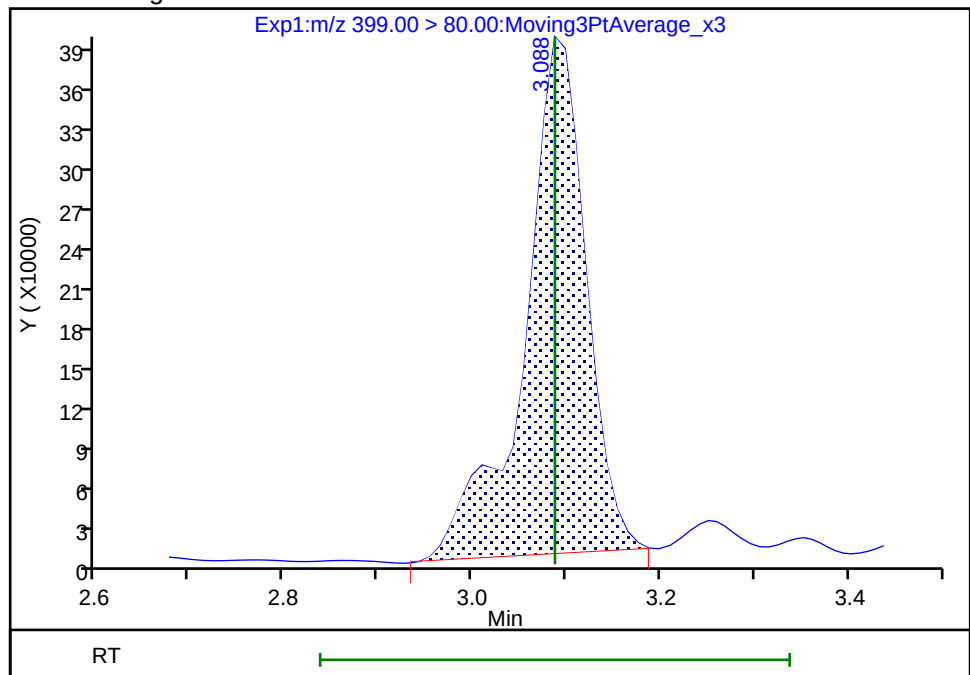
RT: 3.09
Area: 1943220
Amount: 1.430259
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1728009
Amount: 1.271858
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

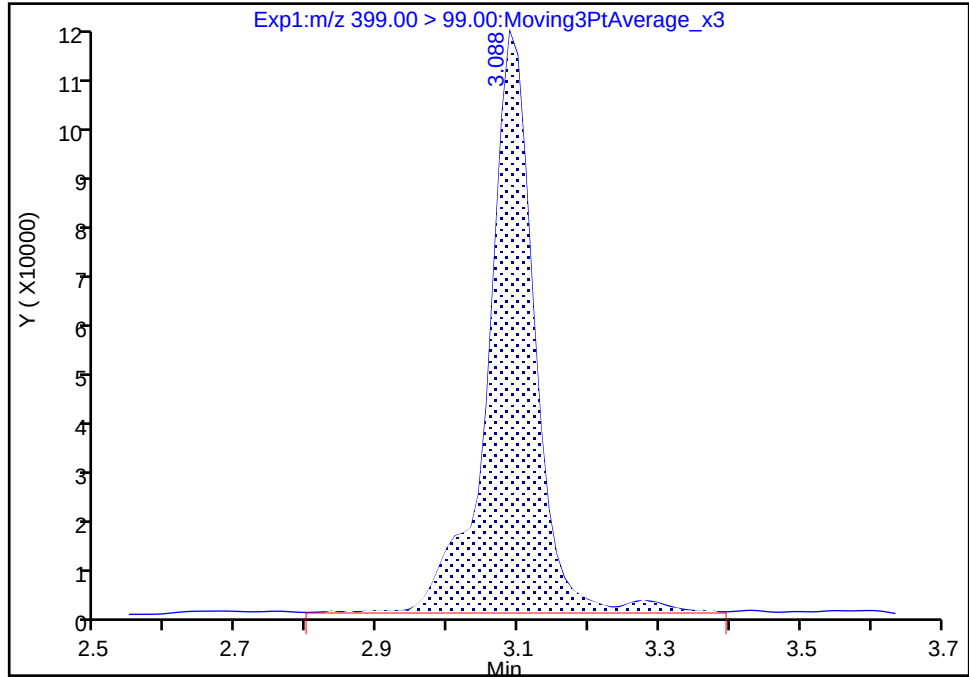
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

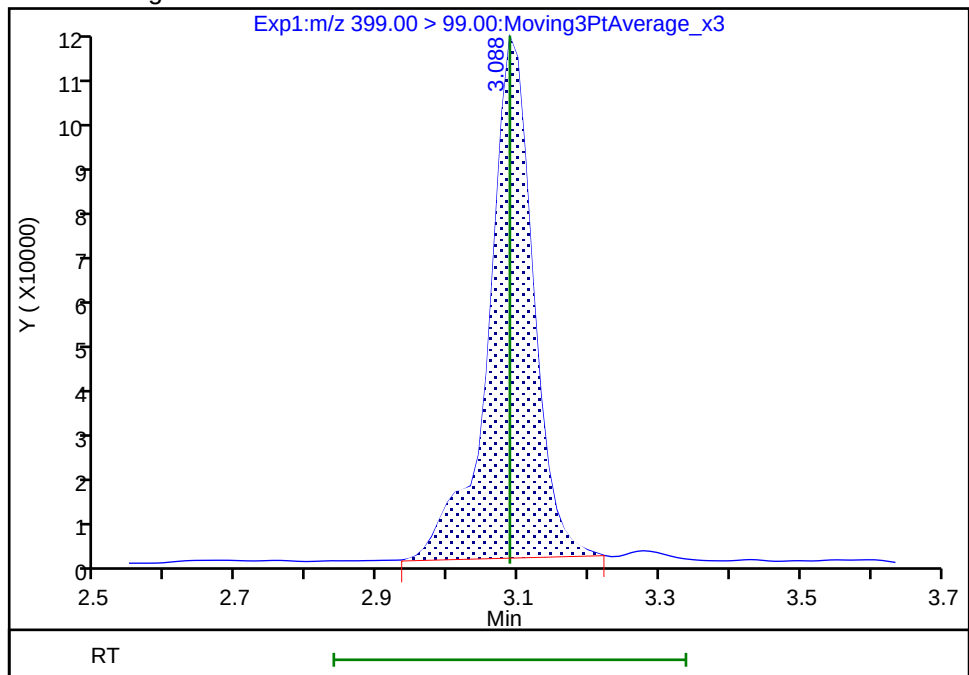
RT: 3.09
Area: 532988
Amount: 1.430259
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 503712
Amount: 1.271858
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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1/9/2023 1:38
PM

Eurofins Burlington

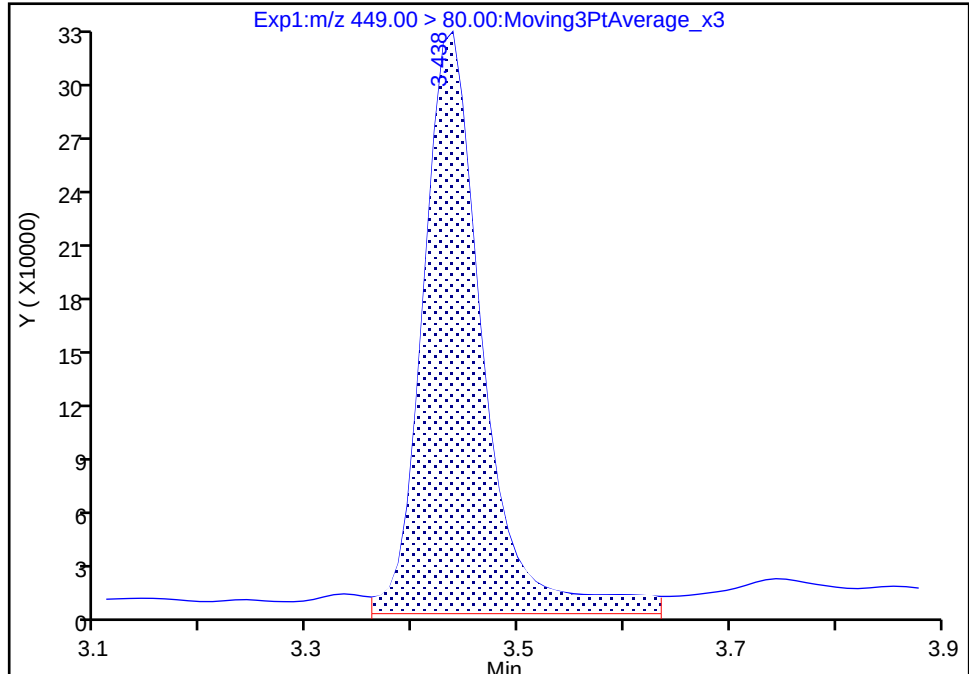
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

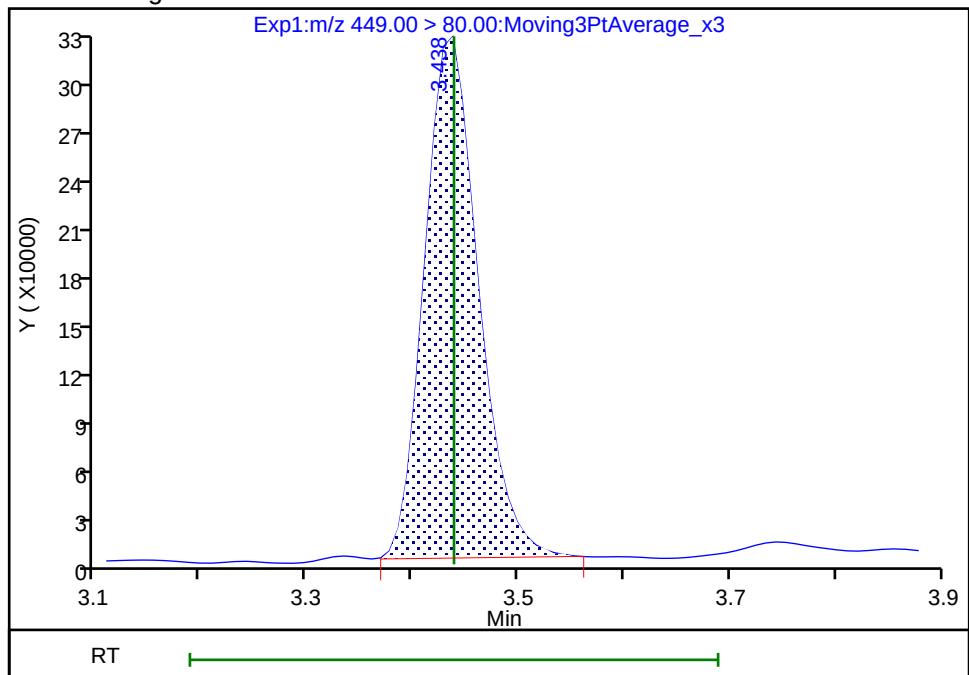
RT: 3.44
Area: 1304547
Amount: 1.216921
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1126702
Amount: 1.051022
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

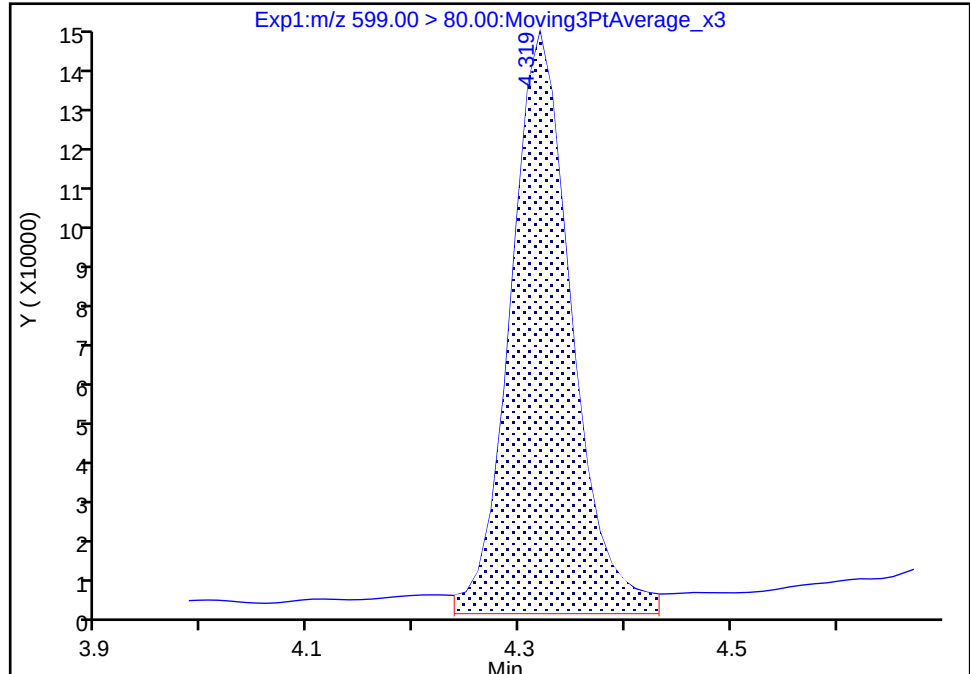
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

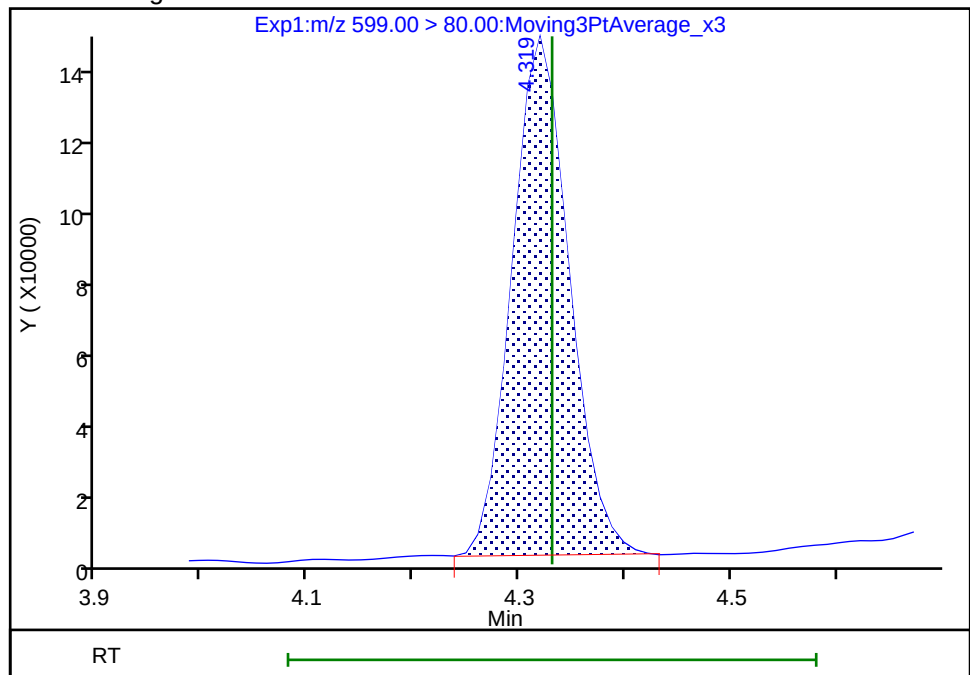
RT: 4.32
Area: 581364
Amount: 1.045107
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 524935
Amount: 0.943666
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:35:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

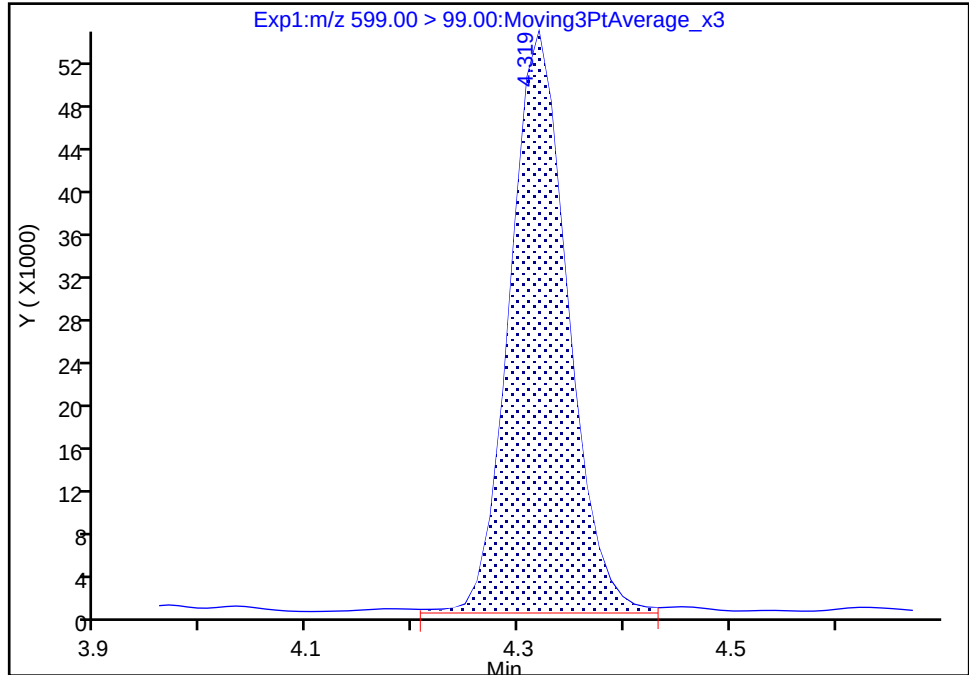
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

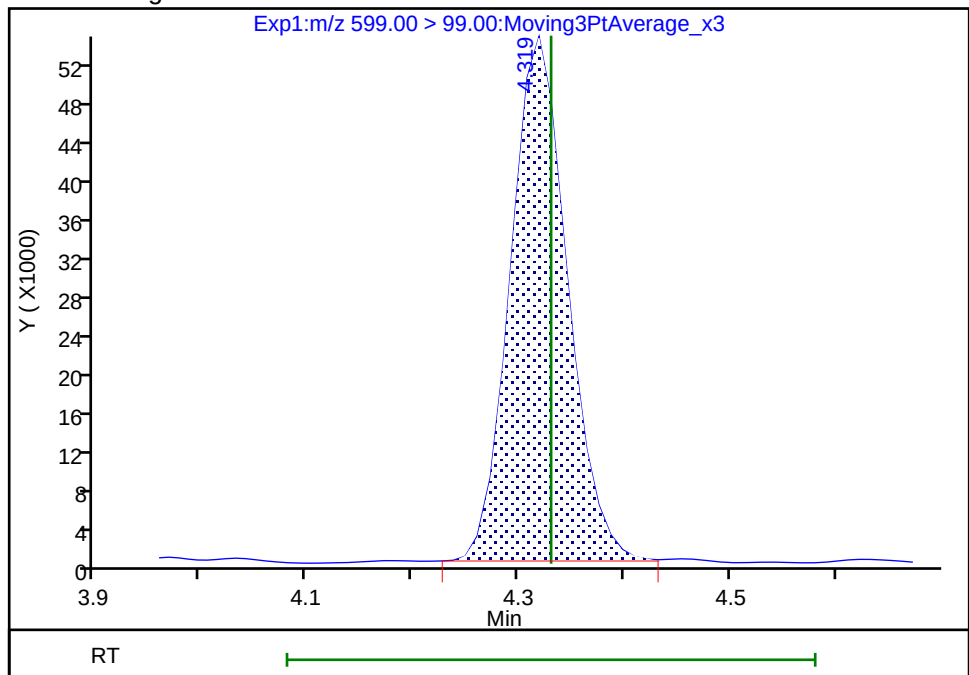
RT: 4.32
Area: 207799
Amount: 1.045107
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 200494
Amount: 0.943666
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:35:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

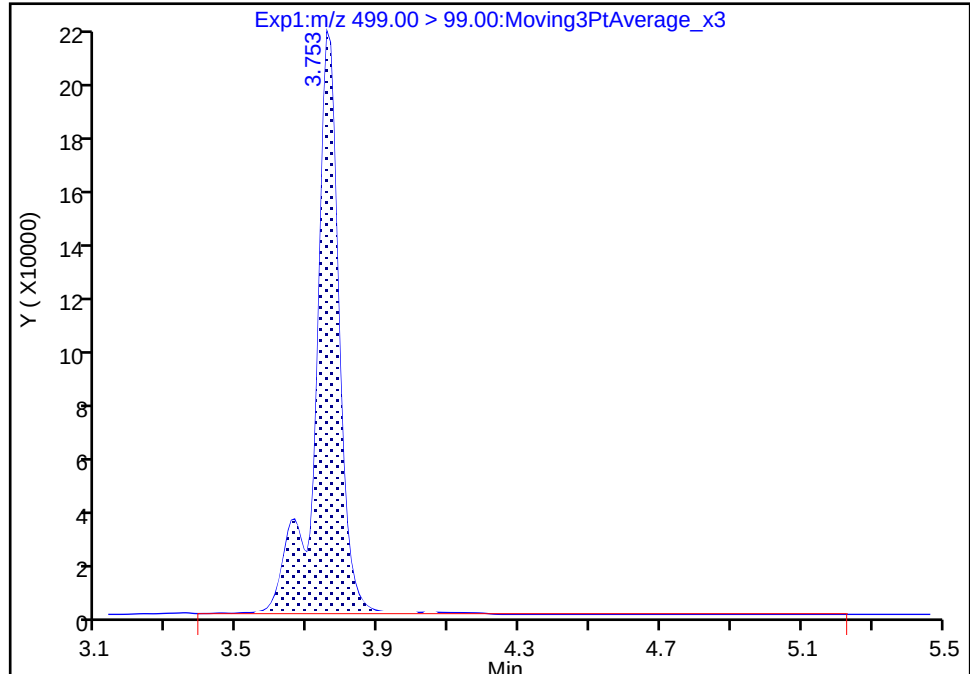
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

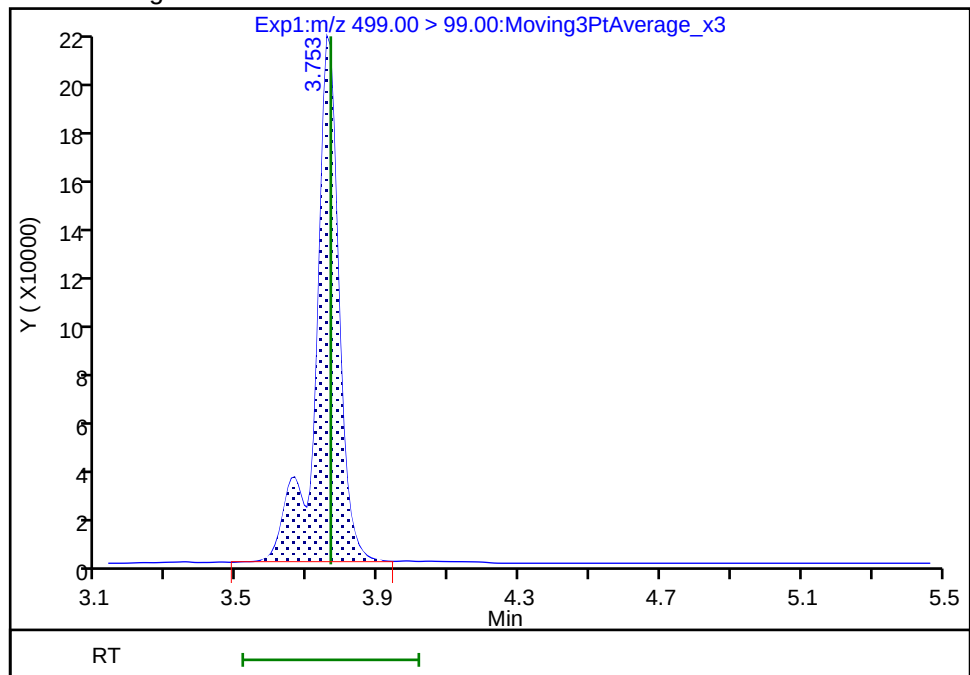
RT: 3.75
Area: 1032694
Amount: 5.129641
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1003587
Amount: 4.594857
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

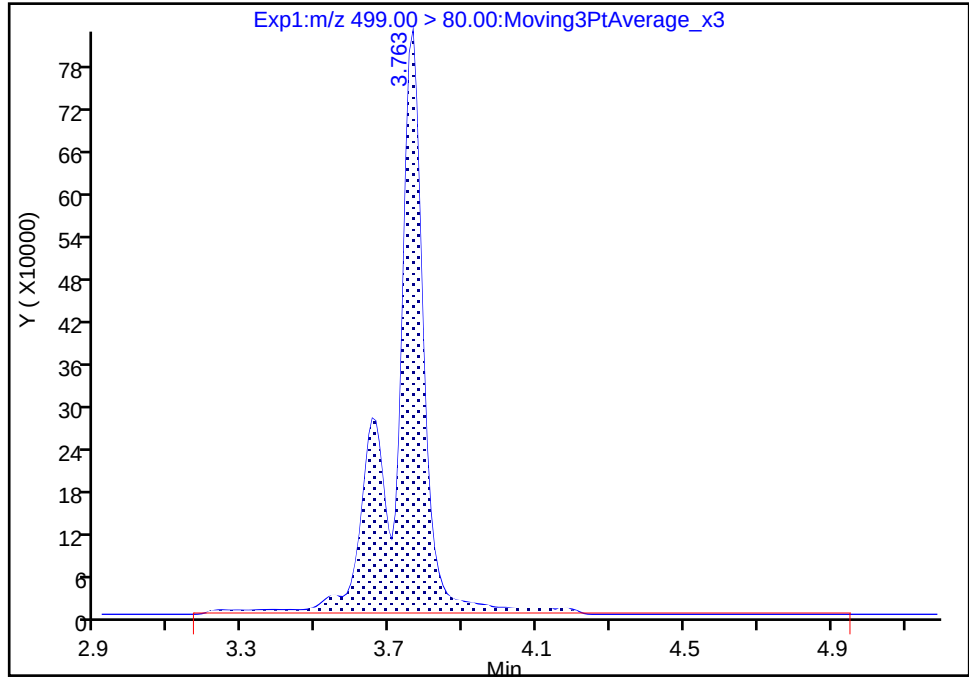
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

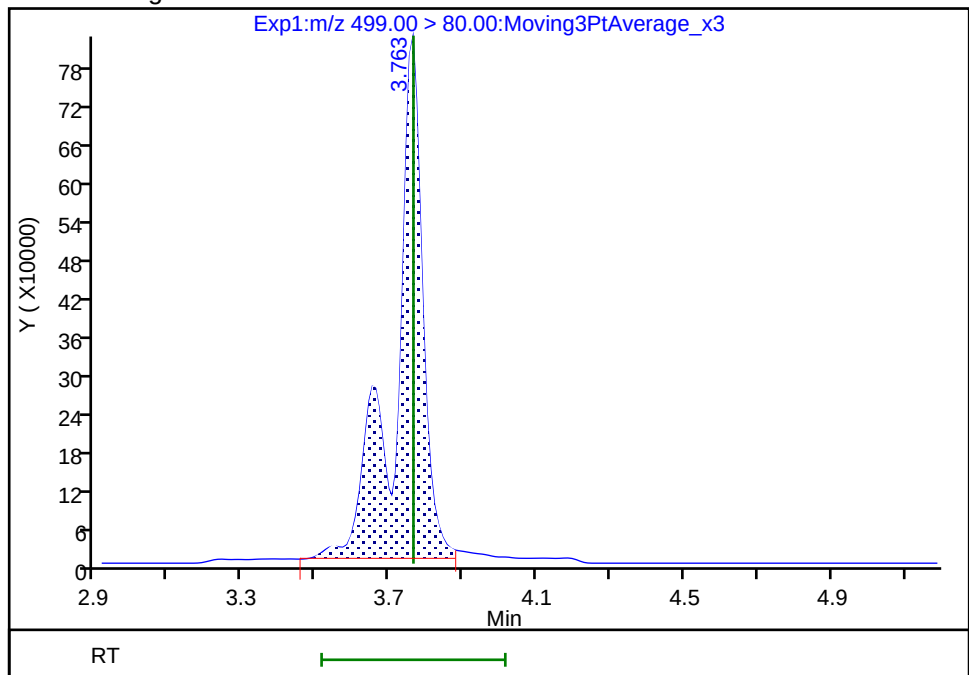
RT: 3.76
Area: 4788050
Amount: 5.129641
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 4288878
Amount: 4.594857
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:42:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

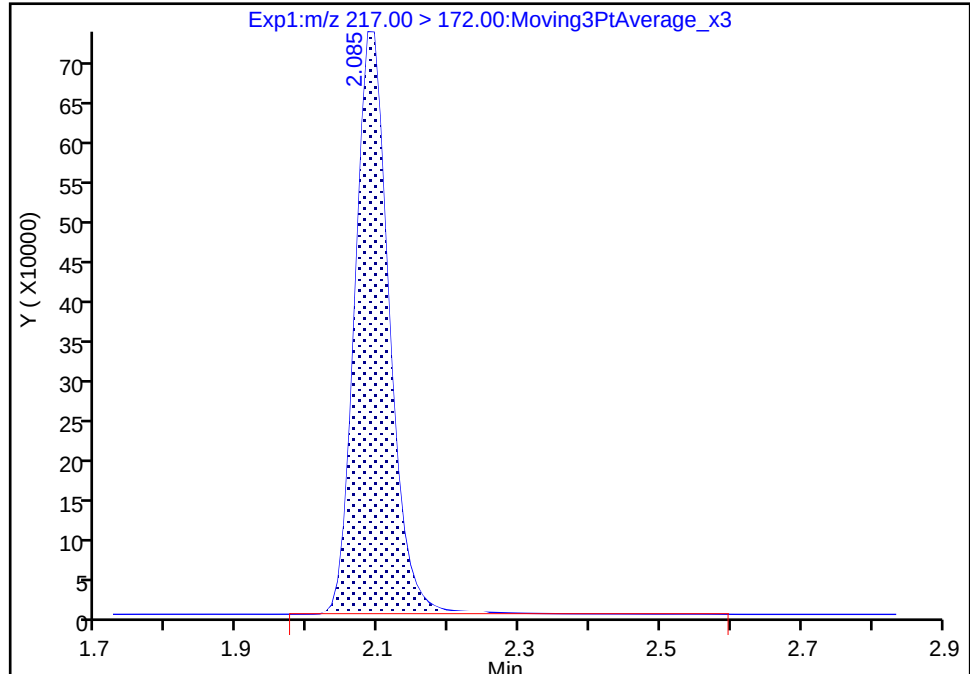
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

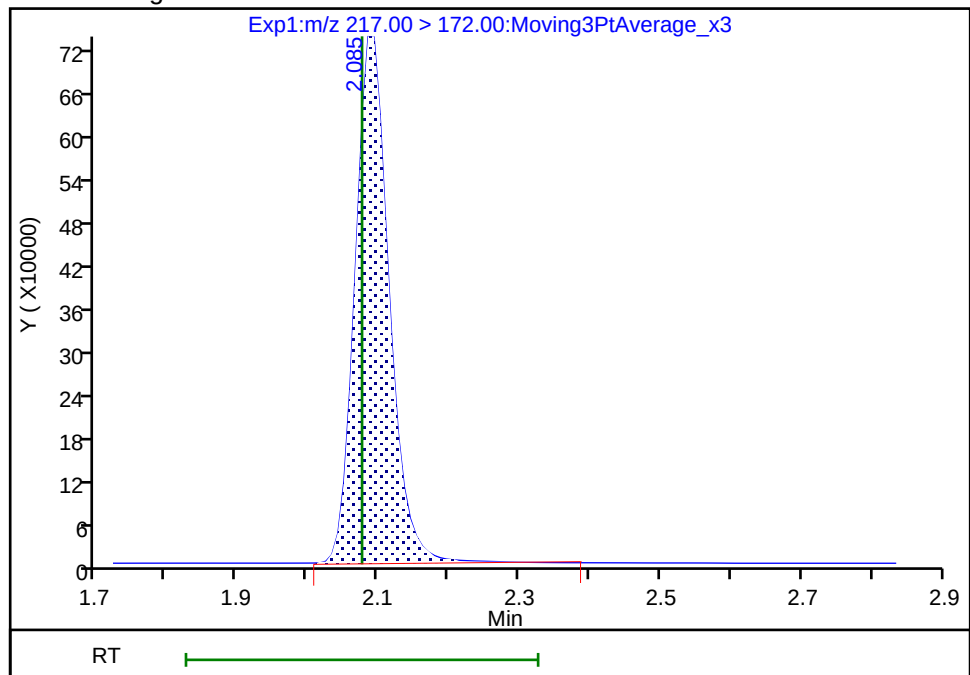
RT: 2.08
Area: 2501965
Amount: 0.992541
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2489782
Amount: 0.987708
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:32:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

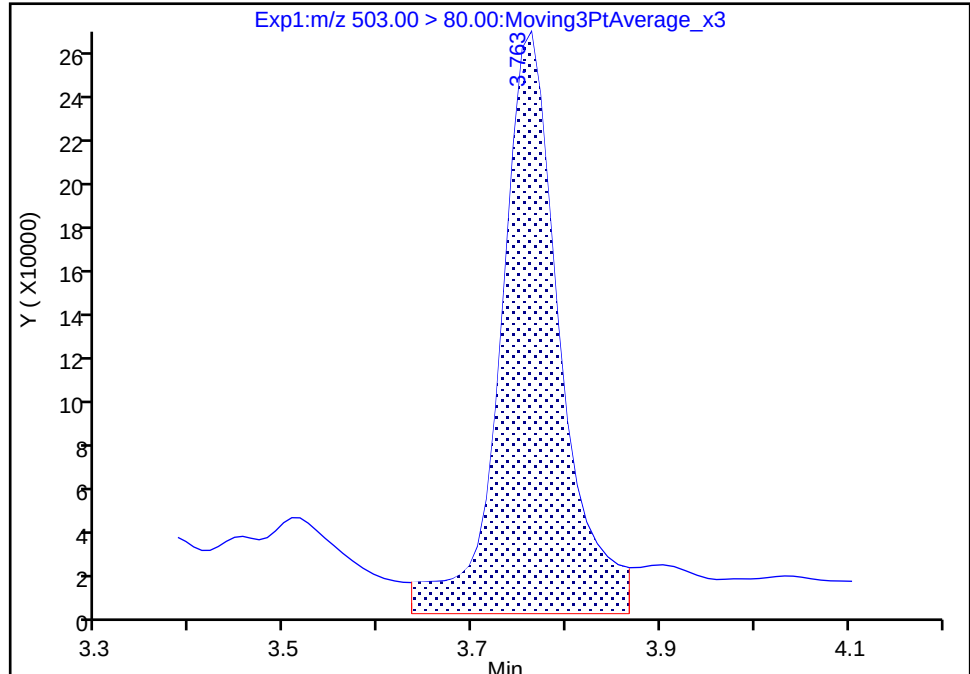
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d		
Injection Date:	05-Jan-2023 17:00:14	Instrument ID:	LC812
Lims ID:	460-271803-A-3-B MS		
Client ID:	SED-3		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	17

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

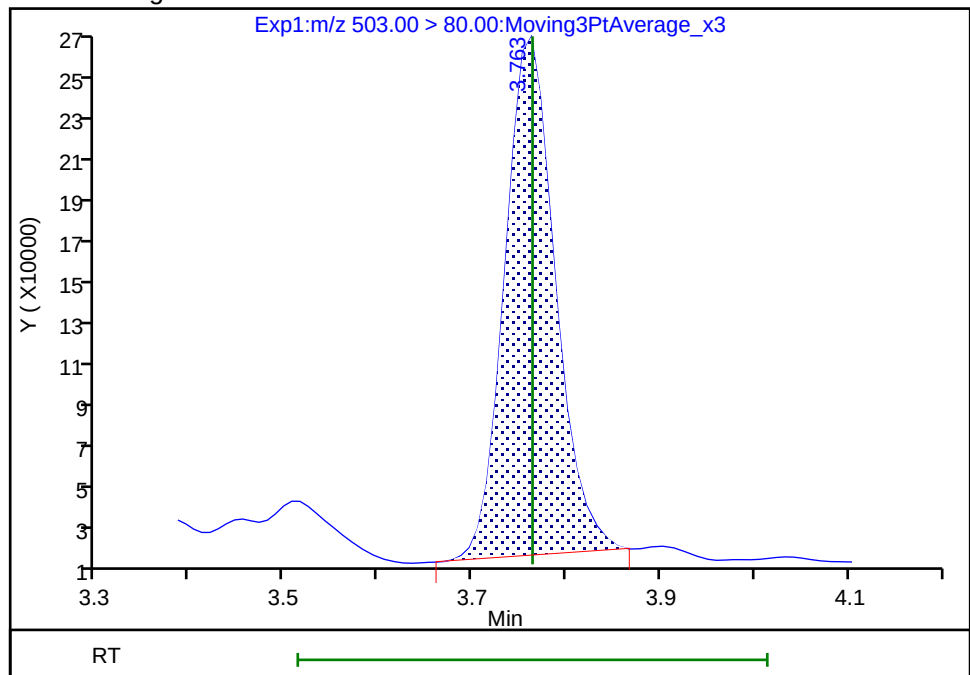
RT: 3.76
Area: 1162449
Amount: 1.127496
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 917183
Amount: 0.889605
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:32:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

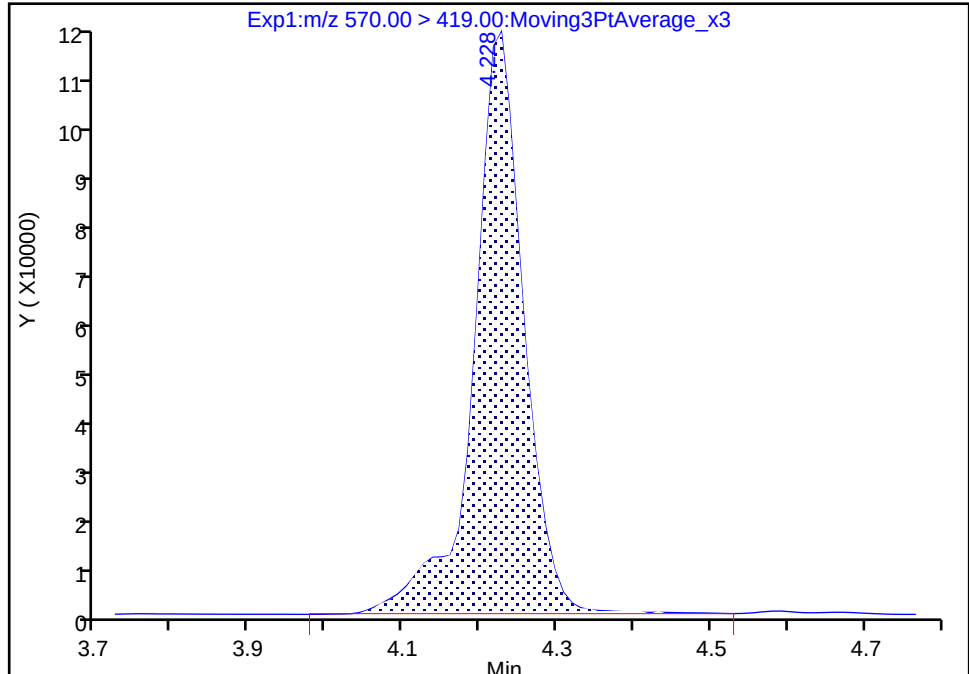
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

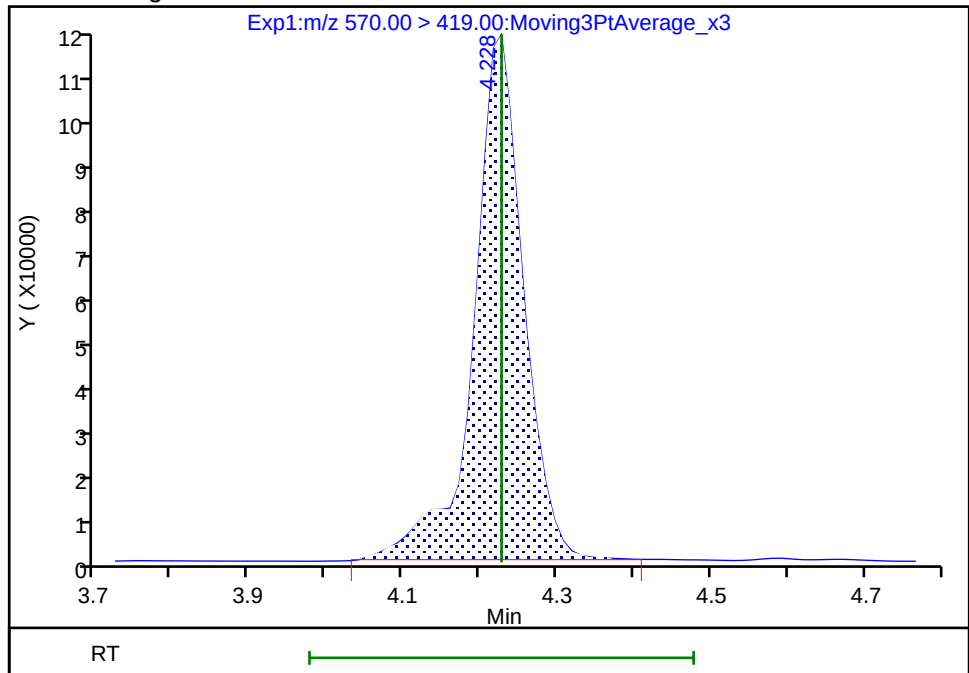
RT: 4.23
Area: 543037
Amount: 1.043519
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 534170
Amount: 1.026290
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:35:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

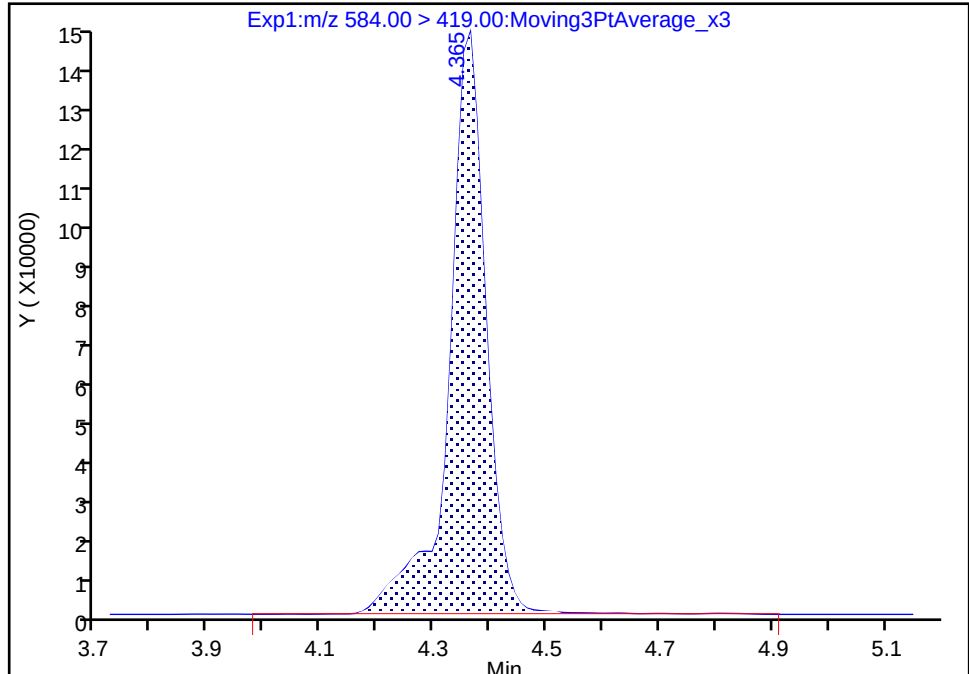
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

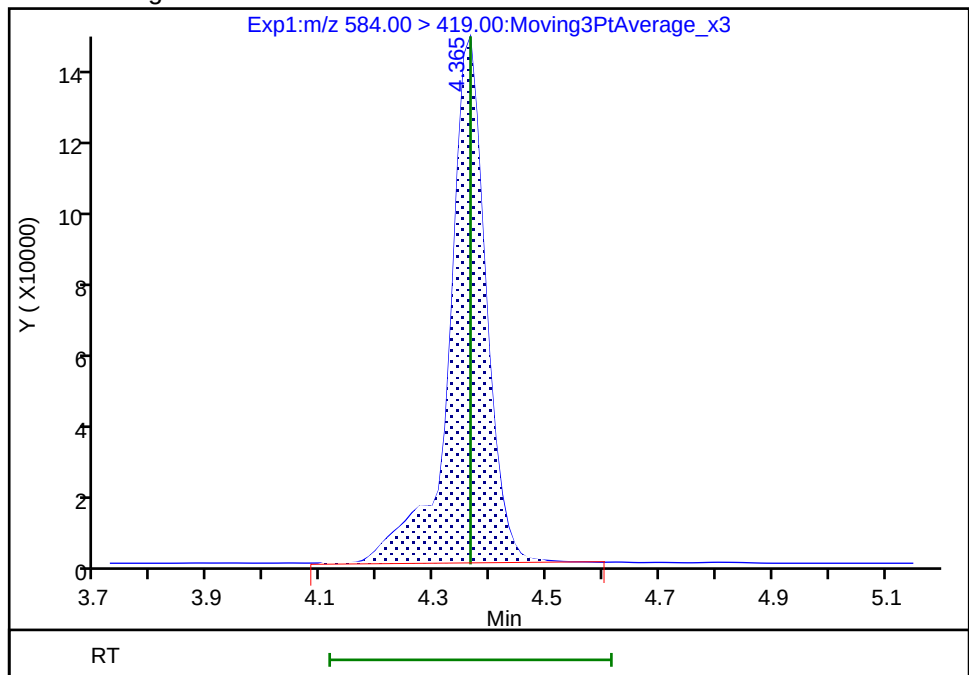
RT: 4.36
Area: 691086
Amount: 1.185760
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 682032
Amount: 1.170225
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:36:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

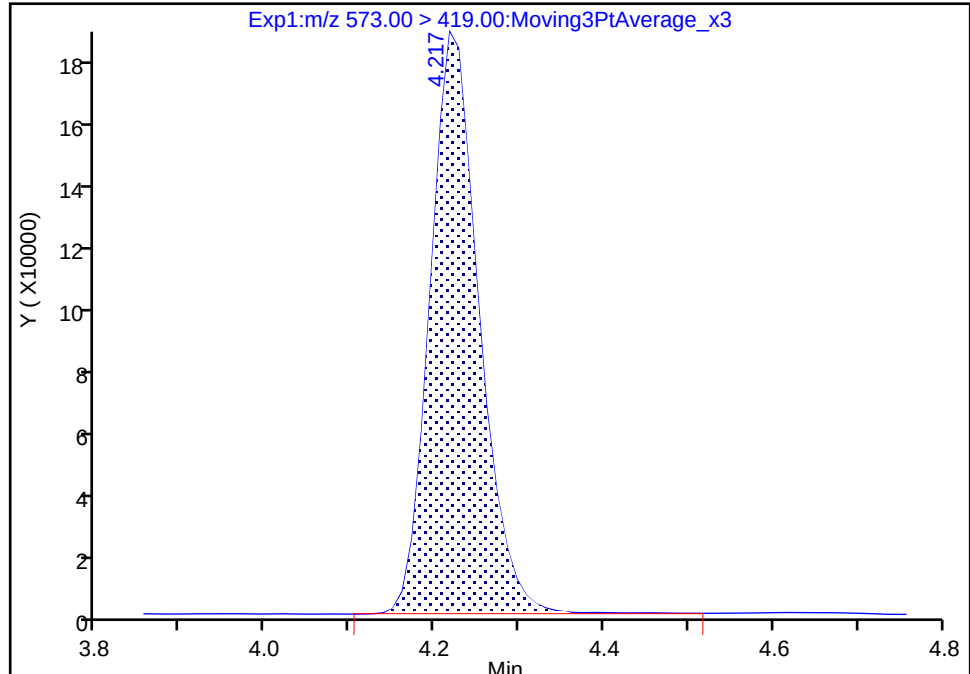
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

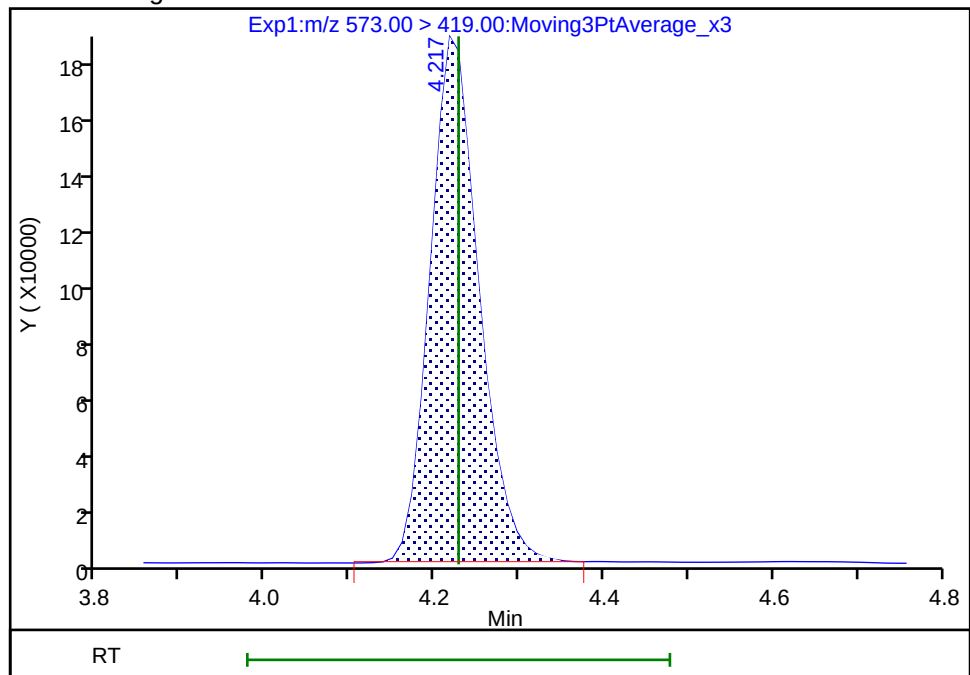
RT: 4.22
Area: 753018
Amount: 1.605645
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 747834
Amount: 1.594591
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:33:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

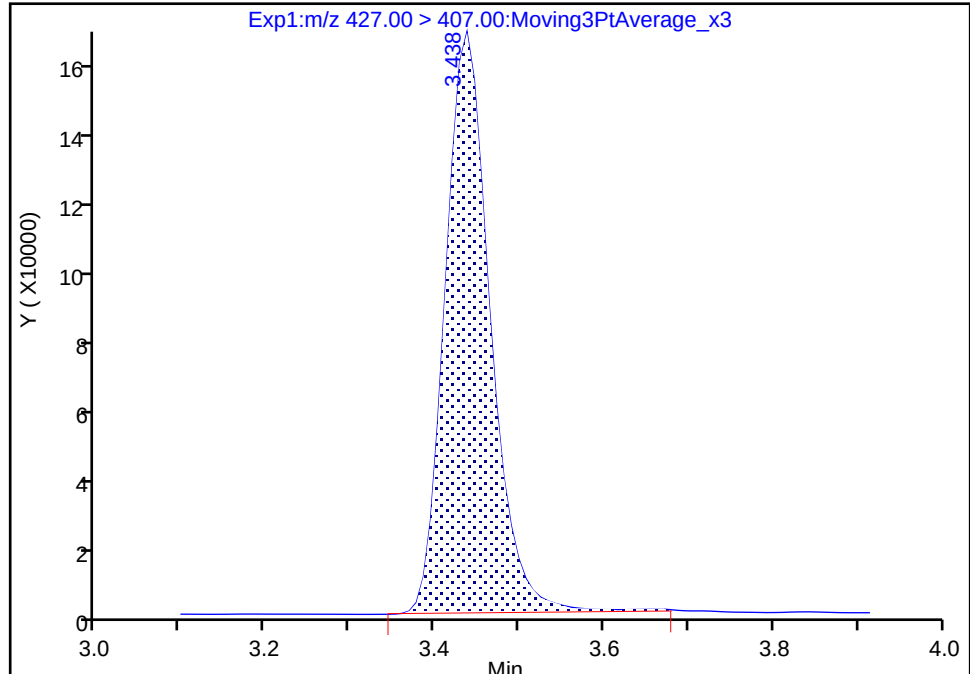
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

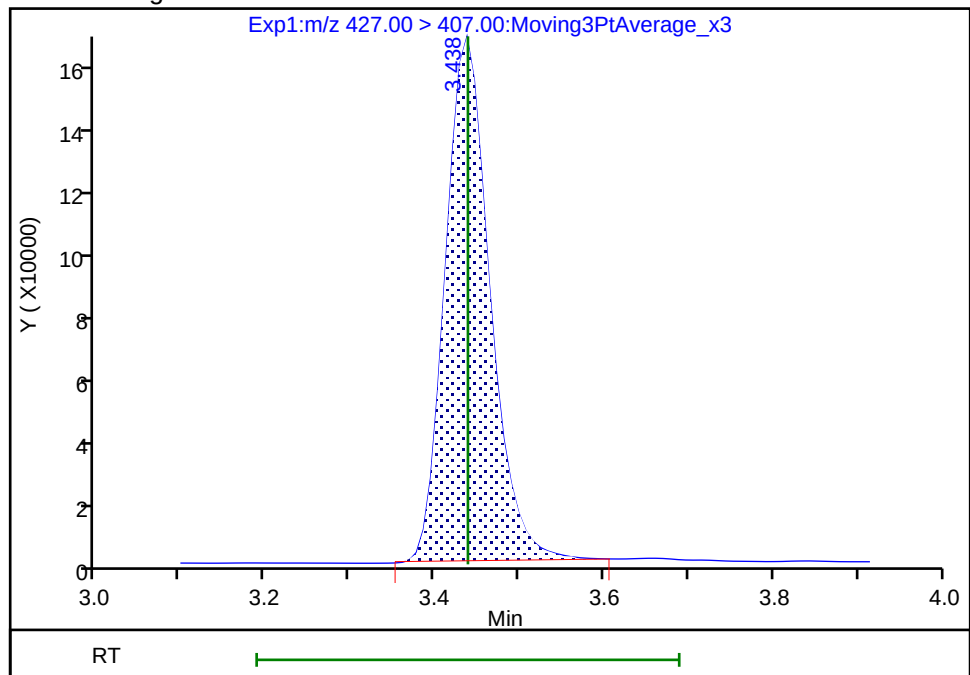
RT: 3.44
Area: 613615
Amount: 1.027802
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 609666
Amount: 1.021111
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:34:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

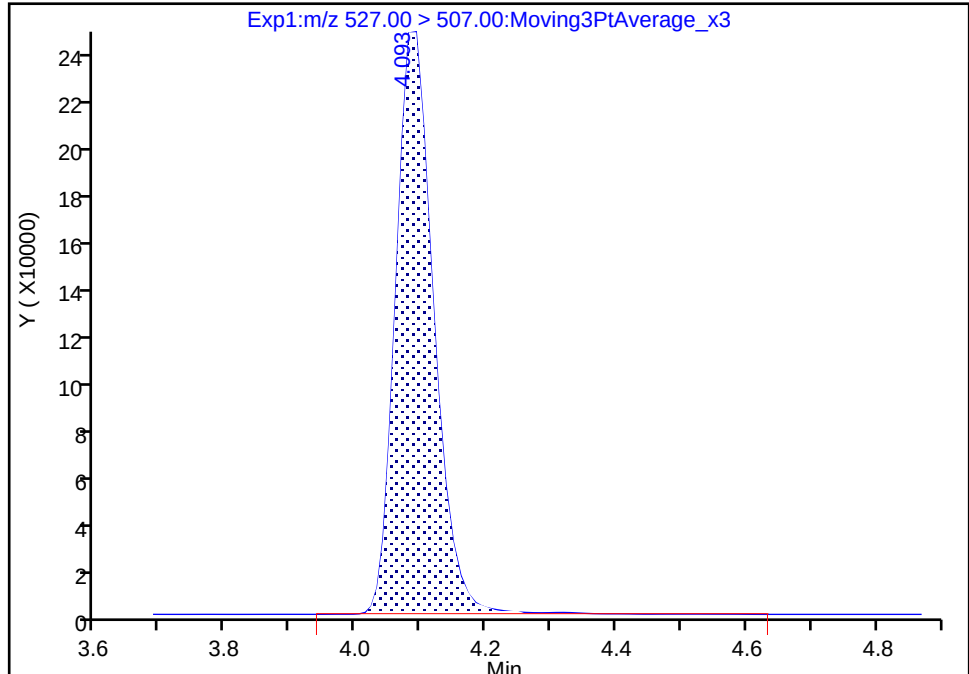
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Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

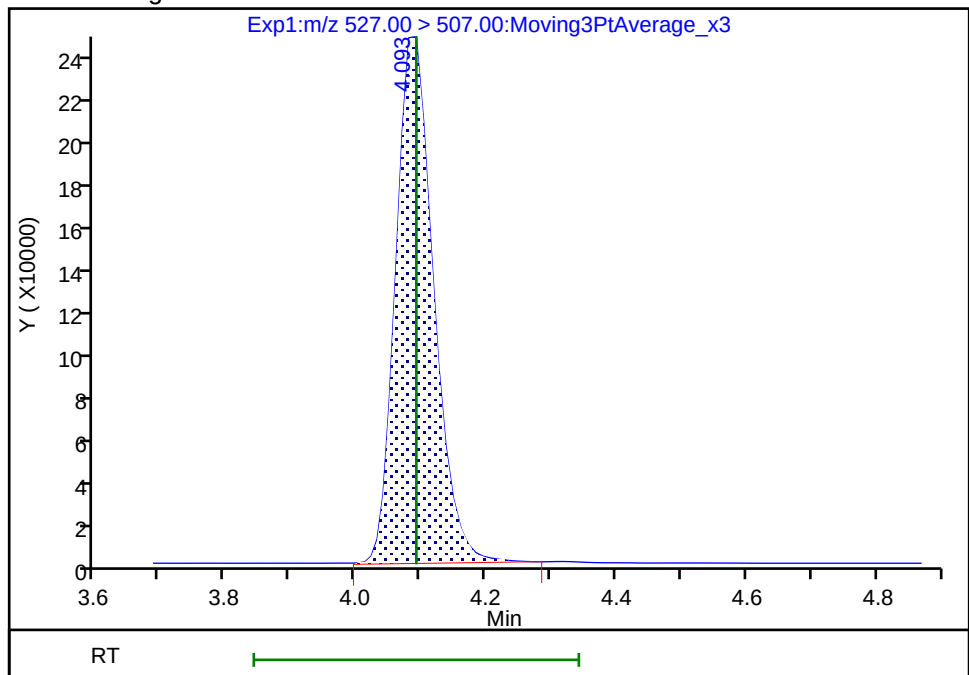
RT: 4.09
Area: 1014158
Amount: 1.066546
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 1006858
Amount: 1.058869
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:35:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

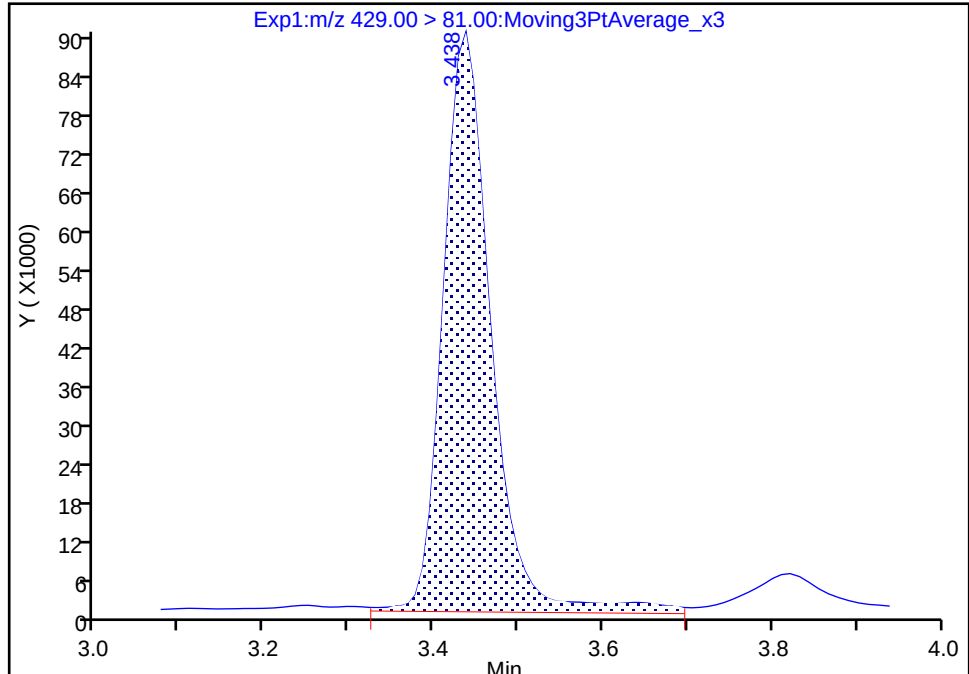
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

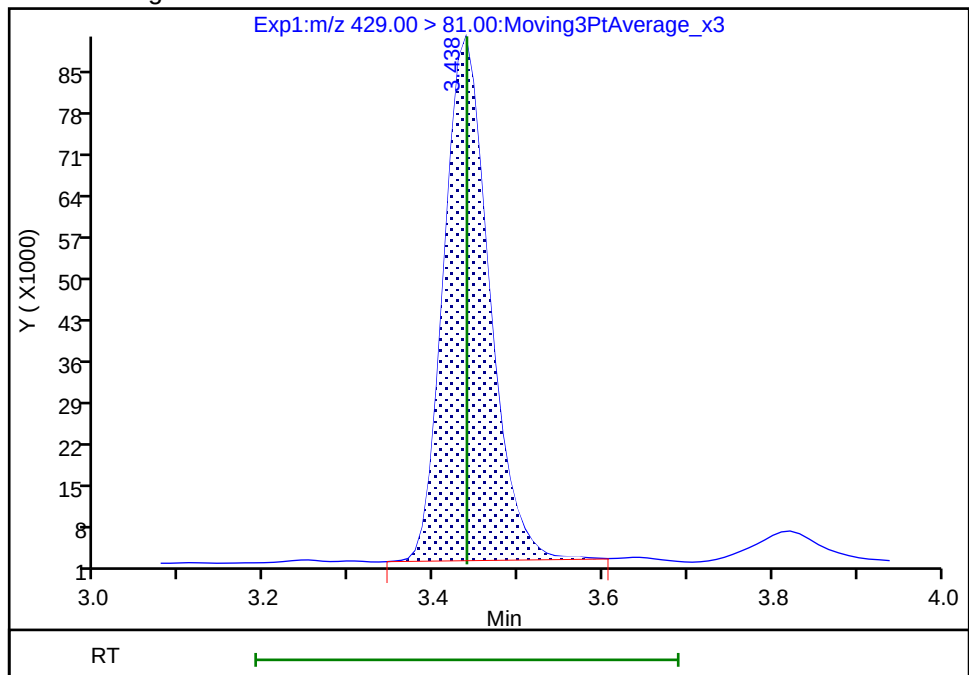
RT: 3.44
Area: 356269
Amount: 1.398226
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 331774
Amount: 1.302092
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:32:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

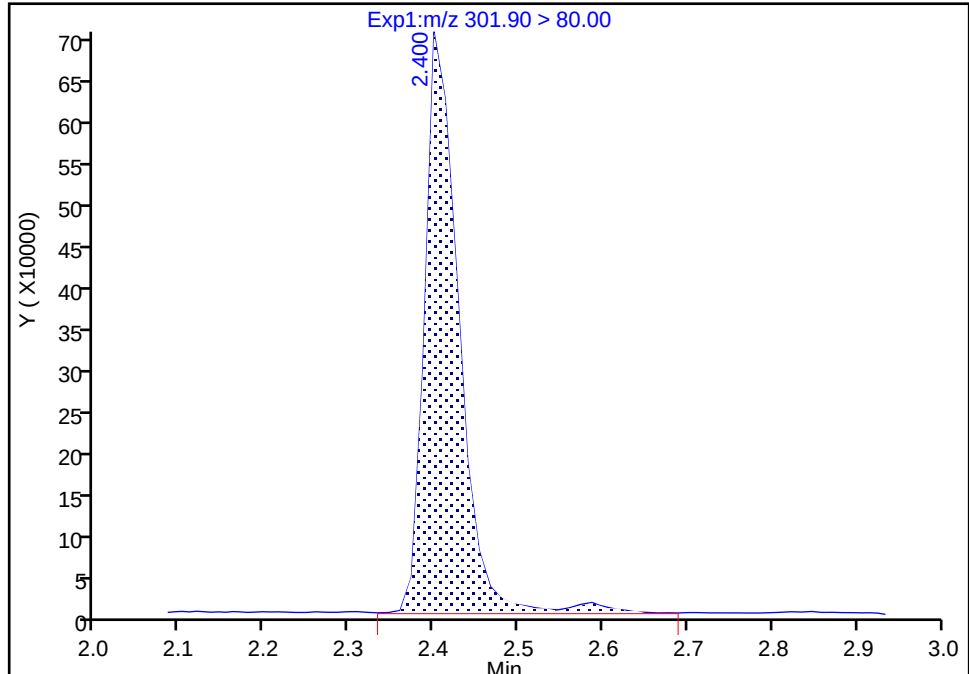
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

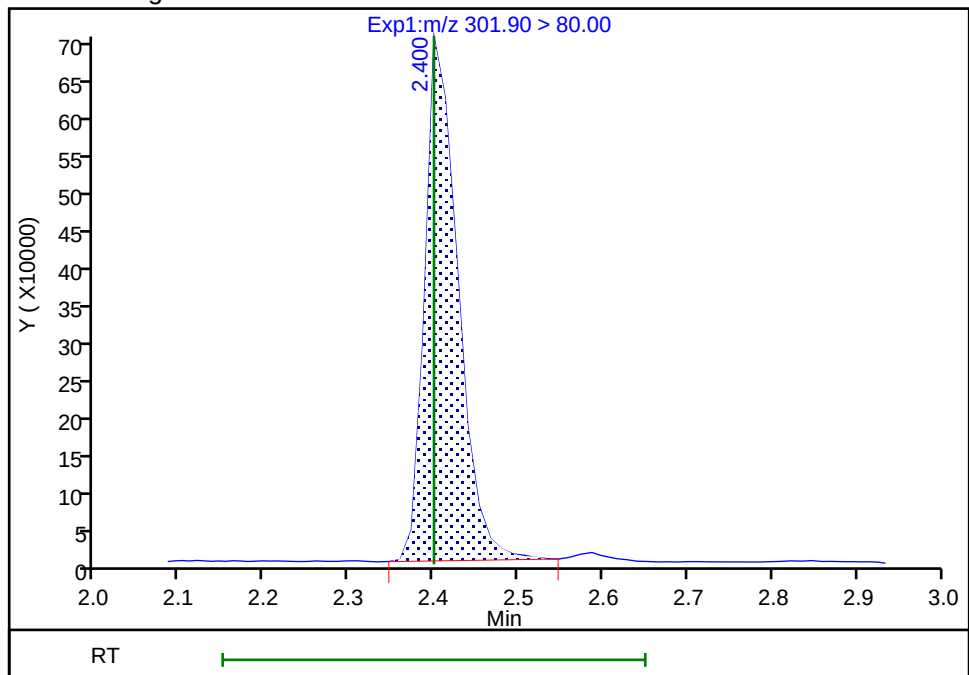
RT: 2.40
Area: 1966038
Amount: 0.942589
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1895531
Amount: 0.908786
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:32:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

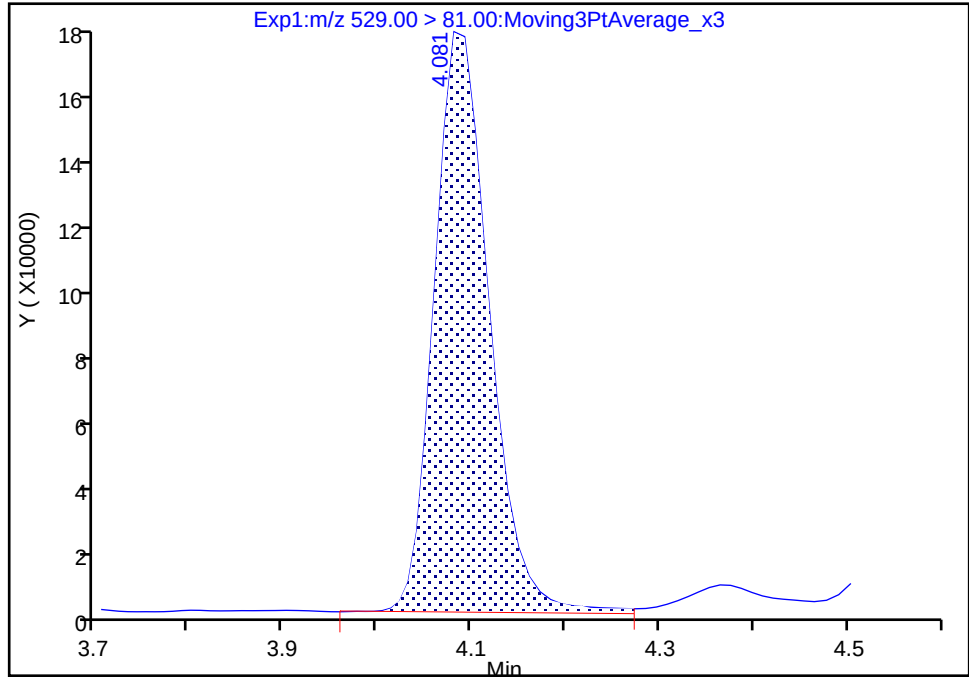
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A17.d
Injection Date: 05-Jan-2023 17:00:14 Instrument ID: LC812
Lims ID: 460-271803-A-3-B MS
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

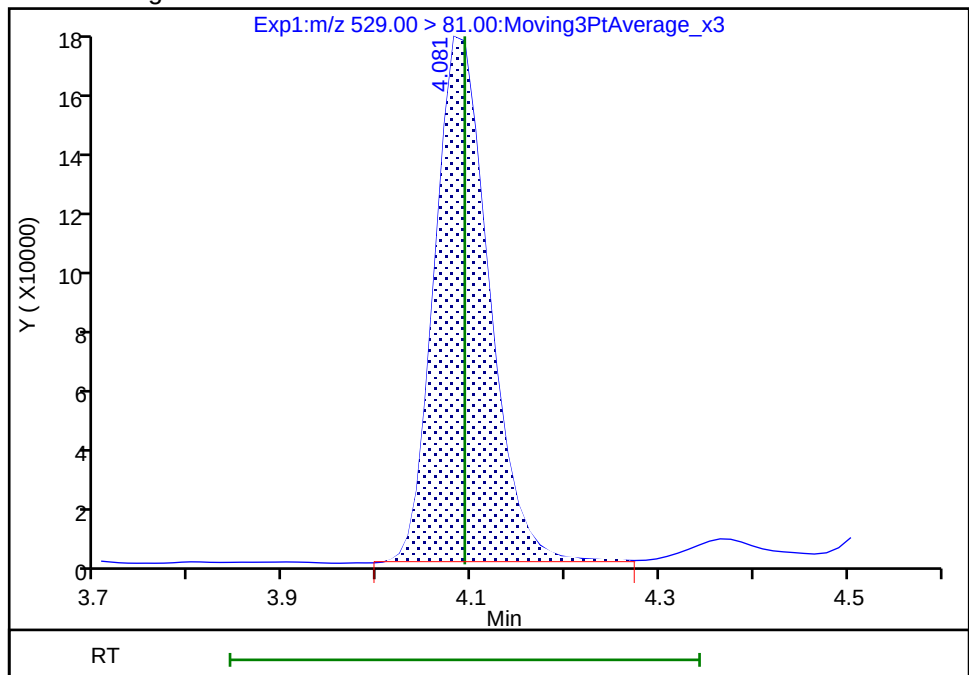
RT: 4.08
Area: 720435
Amount: 2.311661
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 704181
Amount: 2.259507
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:33:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 460-271803-A-3-C MSD

Matrix: Solid Lab File ID: PA230105A18.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 01/03/2023 09:24

Sample wt/vol: 5.27(g) Date Analyzed: 01/05/2023 17:08

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

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 61.1 % Solids: 38.9 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187284 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.722		1.22	0.80
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.844		0.49	0.13
307-24-4	Perfluorohexanoic acid (PFHxA)	4.933		0.49	0.11
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.755		0.49	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	4.916		0.49	0.14
375-95-1	Perfluorononanoic acid (PFNA)	4.773		0.49	0.083
335-76-2	Perfluorodecanoic acid (PFDA)	4.575		0.49	0.068
2058-94-8	Perfluoroundecanoic acid (PFUnA)	5.029		0.49	0.066
307-55-1	Perfluorododecanoic acid (PFDoA)	5.020		0.49	0.061
72629-94-8	Perfluorotridecanoic acid (PFTriA)	4.409		0.49	0.061
376-06-7	Perfluorotetradecanoic acid (PFTeA)	4.614		0.49	0.063
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.186		0.49	0.080
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.998		0.49	0.10
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	5.101		0.49	0.056
335-77-3	Perfluorodecanesulfonic acid (PFDS)	4.446		0.49	0.046
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	18.58		0.49	0.27
754-91-6	Perfluorooctanesulfonamide (FOSA)	4.760		0.49	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.199		4.88	0.27
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.666		4.88	0.20
27619-97-2	6:2 FTS	5.120		4.88	0.14
39108-34-4	8:2 FTS	5.244		4.88	0.090

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>460-271908-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-271803-A-3-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>PA230105A18.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: _____
Extraction Method: <u>SHAKE</u>	Date Extracted: <u>01/03/2023 09:24</u>
Sample wt/vol: <u>5.27(g)</u>	Date Analyzed: <u>01/05/2023 17:08</u>
Con. Extract Vol.: <u>10(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20(uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u>
% Moisture: <u>61.1</u> % Solids: <u>38.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	
Analysis Batch No.: <u>187284</u>	Units: <u>ug/Kg</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	80		50-150
STL00990	13C4 PFOA	84		50-150
STL00995	13C5 PFNA	89		50-150
STL00992	13C4 PFBA	77		50-150
STL00993	13C2 PFHxA	77		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	98		50-150
STL00994	18O2 PFHxS	77		50-150
STL00998	13C2 PFDoA	83		50-150
STL00991	13C4 PFOS	73		50-150
STL01056	13C8 FOSA	61		50-150
STL01893	13C5 PFPeA	75		50-150
STL02116	13C2 PFTeDA	74		50-150
STL02118	d3-NMeFOSAA	120		50-150
STL02117	d5-NEtFOSAA	128		50-150
STL02279	M2-6:2 FTS	104		50-150
STL02337	13C3 PFBS	78		50-150
STL02280	M2-8:2 FTS	171	*	50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
 Lims ID: 460-271803-A-3-C MSD
 Client ID: SED-3
 Sample Type: MSD
 Inject. Date: 05-Jan-2023 17:08:24 ALS Bottle#: 15 Worklist Smp#: 18
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271803-A-3-C MSD
 Misc. Info.: 200-0053906-018 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 06-Jan-2023 11:18:35 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1674

First Level Reviewer: nampitakw

Date: 06-Jan-2023 13:41:39

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	2.085	2.076	0.009	0.606	2469394	0.9610		76.9	6043	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.004	1973224	0.9686		96.9	133	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.694	1840649	0.9406		75.2	1929	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	1594723	0.99		99.4	26.0	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.698	1925823	0.9058		77.9	28168	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	1627274	0.8586	Target=2.09	97.1	33.4	M
298.90 > 99.00	2.413	2.400	0.013	1.006	780201		2.09(1.04-3.13)		166	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	474731	0.9137		97.8	1346	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.782	196897	1.05		89.8	36.9	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.793	1971740	0.9616		76.9	3131	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1739088	1.01	Target=14.25	101	84.1	M
313.00 > 119.00	2.725	2.725	0.0	1.000	123266		14.11(7.12-21.37)		39.8	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	1515199	0.9478	Target=3.04	101	28.4	M
349.00 > 99.00	2.737	2.737	0.0	0.887	510582		2.97(1.52-4.56)		208	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	291914	0.9570		95.7	1820	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	2.835	2.835	0.0	0.825	361097	1.00		79.8	2037	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.898	1415579	0.9140		77.3	2937	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.087	3.088	-0.001	1.000	1662278	1.23	Target=3.66	135	26.4	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	497088		3.34(1.83-5.49)	162		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.898	2116398	1.00		80.3	2921	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.087	3.099	-0.012	1.000	1797960	0.9753	Target=3.97	97.5	82.6	M
363.00 > 169.00	3.087	3.099	-0.012	1.000	438574		4.10(1.98-5.95)	259		M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.837	4223234	1.00	Target=3.16	107	1876	
377.00 > 85.00	3.121	3.132	-0.011	0.834	1345641		3.14(1.58-4.73)	927		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.420	3.439	-0.019	0.995	322300	1.24		104	41.6	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.420	3.439	-0.019	1.000	608945	1.05		111	415	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.420	3.439	-0.019	0.914	1116205	1.05	Target=5.14	110	32.2	M
449.00 > 99.00	3.420	3.439	-0.019	0.914	225038		4.96(2.57-7.72)	146		M
D 14 13C4 PFOA										
417.00 > 372.00	3.438	3.448	-0.010	1.000	2495136	1.05		84.2	3266	
* 62 13C2 PFOA										
415.00 > 370.00	3.438	3.448	-0.010		2863390	1.25			3829	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.438	3.448	-0.010	1.000	2151964	1.01	Target=2.79	101	85.9	M
413.00 > 169.00	3.438	3.448	-0.010	1.000	763200		2.82(1.40-4.19)	403		M
D 18 13C4 PFOS										
503.00 > 80.00	3.743	3.764	-0.021	1.089	912694	0.8685		72.7	25.1	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.743	3.764	-0.021	1.000	3539256	3.81	Target=5.11	411	100	M
499.00 > 99.00	3.743	3.764	-0.021	1.000	833771		4.24(2.55-7.66)	363		M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.762	3.783	-0.021	1.000	2087077	0.9791	Target=8.55	97.9	155	M
463.00 > 169.00	3.762	3.783	-0.021	1.000	244576		8.53(4.28-12.83)	531		M
D 19 13C5 PFNA										
468.00 > 423.00	3.762	3.783	-0.021	1.095	2568645	1.11		89.2	3525	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.902	3.928	-0.026	1.042	2091331	0.9810		105	1872	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.032	4.050	-0.018	1.077	674223	0.9617	Target=2.53	100	47.2	M
549.00 > 99.00	4.032	4.050	-0.018	1.077	270305		2.49(1.27-3.80)	172		M
D 23 13C2 PFDA										
515.00 > 470.00	4.060	4.081	-0.021	1.181	2950453	1.26		101	4142	

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	4.060	4.081	-0.021	1.000	2401990	0.9384	Target=10.26	93.8	197	M
513.00 > 169.00	4.060	4.081	-0.021	1.000	240333		9.99(5.13-15.38)		180	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.071	4.093	-0.022	1.184	649788	2.05		171	46.5	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.071	4.093	-0.022	1.000	943878	1.08		112	3344	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.127	4.150	-0.023	1.000	1192094	0.9763		97.6	586	
D 21 13C8 FOSA										
506.00 > 78.00	4.127	4.150	-0.023	1.200	1460920	0.7590		60.7	1645	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.207	4.228	-0.021	1.224	714354	1.49		120	502	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.207	4.228	-0.021	1.000	529963	1.07		107	491	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.297	4.331	-0.034	1.148	504853	0.9120	Target=2.51	94.6	22.8	M
599.00 > 99.00	4.297	4.331	-0.034	1.148	197730		2.55(1.25-3.76)		134	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.330	4.353	-0.023	1.260	2640471	1.23		98.3	5303	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.330	4.353	-0.023	1.000	2196092	1.03	Target=9.88	103	151	M
563.00 > 169.00	4.330	4.353	-0.023	1.000	218630		10.04(4.94-14.82)		321	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.342	4.365	-0.023	1.000	625578	1.16		116	1256	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.342	4.365	-0.023	1.263	751568	1.60		128	780	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.432	4.454	-0.022	1.184	3040908	0.9254		98.2	2860	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.567	4.591	-0.024	1.000	1994657	1.03	Target=7.77	103	221	
613.00 > 169.00	4.567	4.591	-0.024	1.000	259047		7.70(3.89-11.66)		562	
D 36 13C2 PFDaA										
615.00 > 570.00	4.567	4.591	-0.024	1.329	2285246	1.04		83.5	3230	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.580	4.612	-0.032	1.125	604043	1.15		119	2546	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.739	4.776	-0.037	1.266	188414	0.8045	Target=0.50	83.1	12.2	M
699.00 > 99.00	4.739	4.776	-0.037	1.266	356057		0.53(0.25-0.76)		418	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.776	4.804	-0.028	1.046	1675157	0.9043	Target=5.21	90.4	220	M
663.00 > 169.00	4.776	4.804	-0.028	1.046	290550		5.77(2.60-7.81)		342	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.972	5.012	-0.040	1.000	182437	0.9464	Target=0.89	94.6	493	
713.00 > 219.00	4.972	5.012	-0.040	1.000	202774		0.90(0.44-1.33)		488	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	5.012	-0.040	1.446	1760136	0.9291		74.3	2730	

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	5.333	5.367	-0.034	1.002	1389224	1.01	Target=5.65	101	451	
813.00 > 169.00	5.333	5.367	-0.034	1.002	219071		6.34(2.82-8.47)		648	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.322	5.367	-0.045	1.548	1841432	0.7862		62.9	3550	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.677	5.722	-0.045	1.067	1291682	1.06	Target=6.24	106	451	M
913.00 > 169.00	5.667	5.722	-0.055	1.065	188671		6.85(3.12-9.36)		372	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d

Injection Date: 05-Jan-2023 17:08:24

Instrument ID: LC812

Lims ID: 460-271803-A-3-C MSD

Client ID: SED-3

Operator ID: lc812tech

ALS Bottle#: 15

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

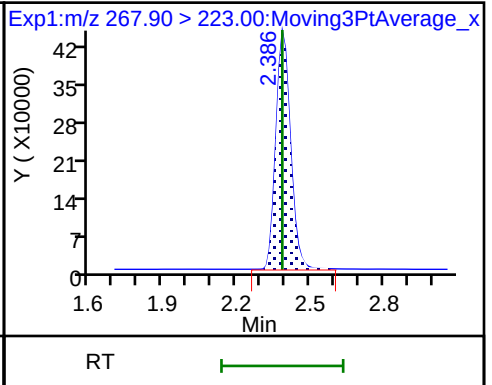
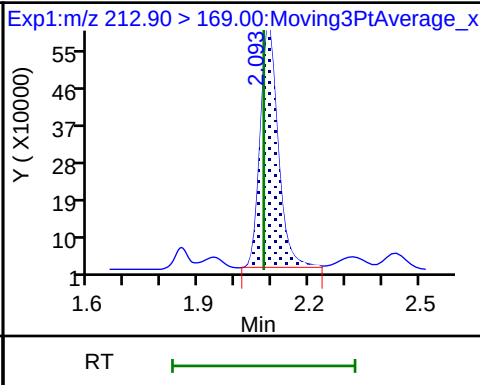
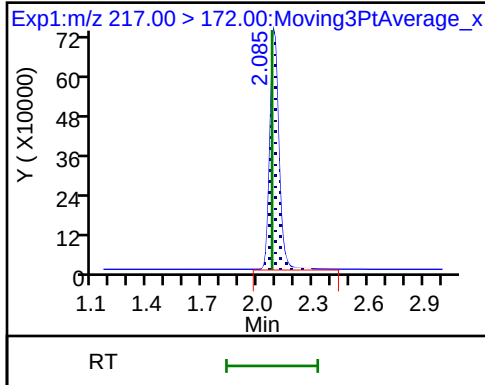
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

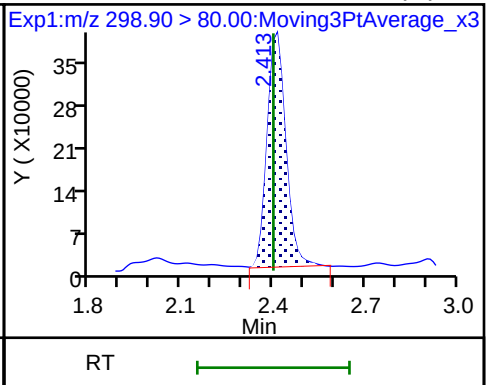
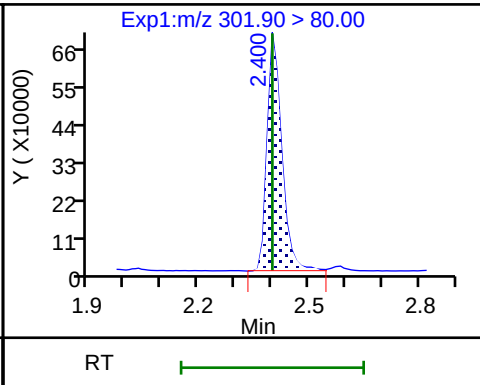
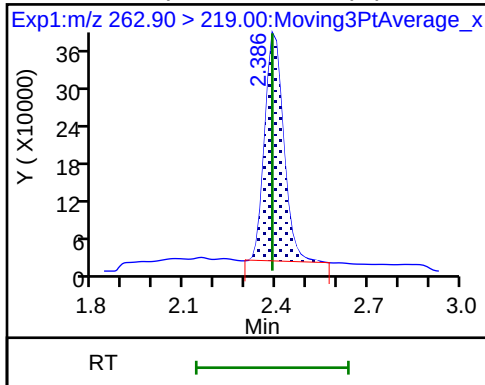
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

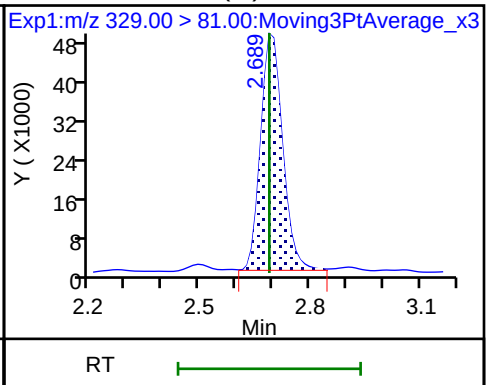
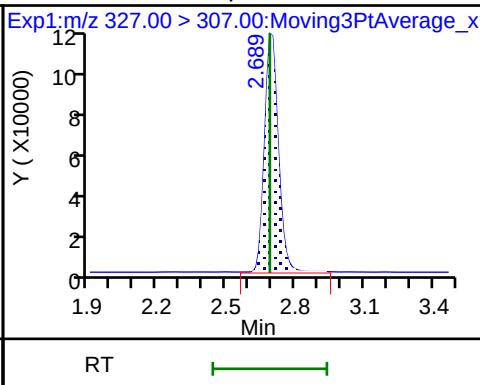
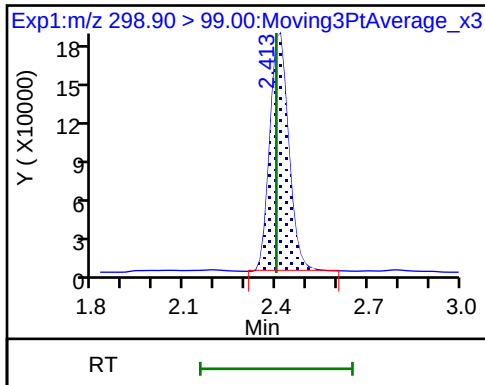
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

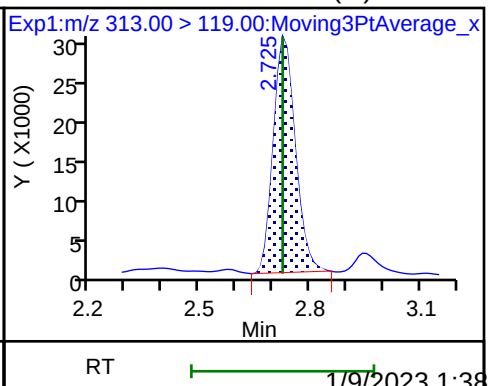
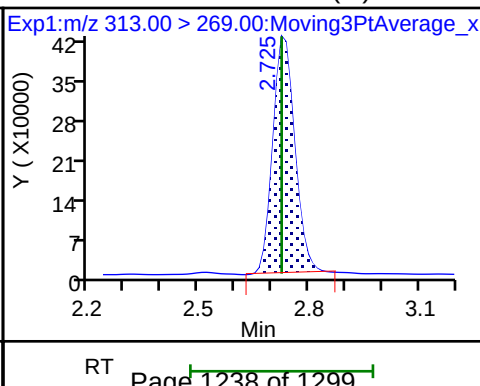
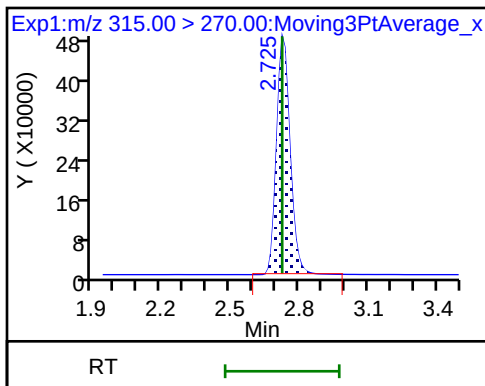
D 60 M2-4:2 FTS (M)

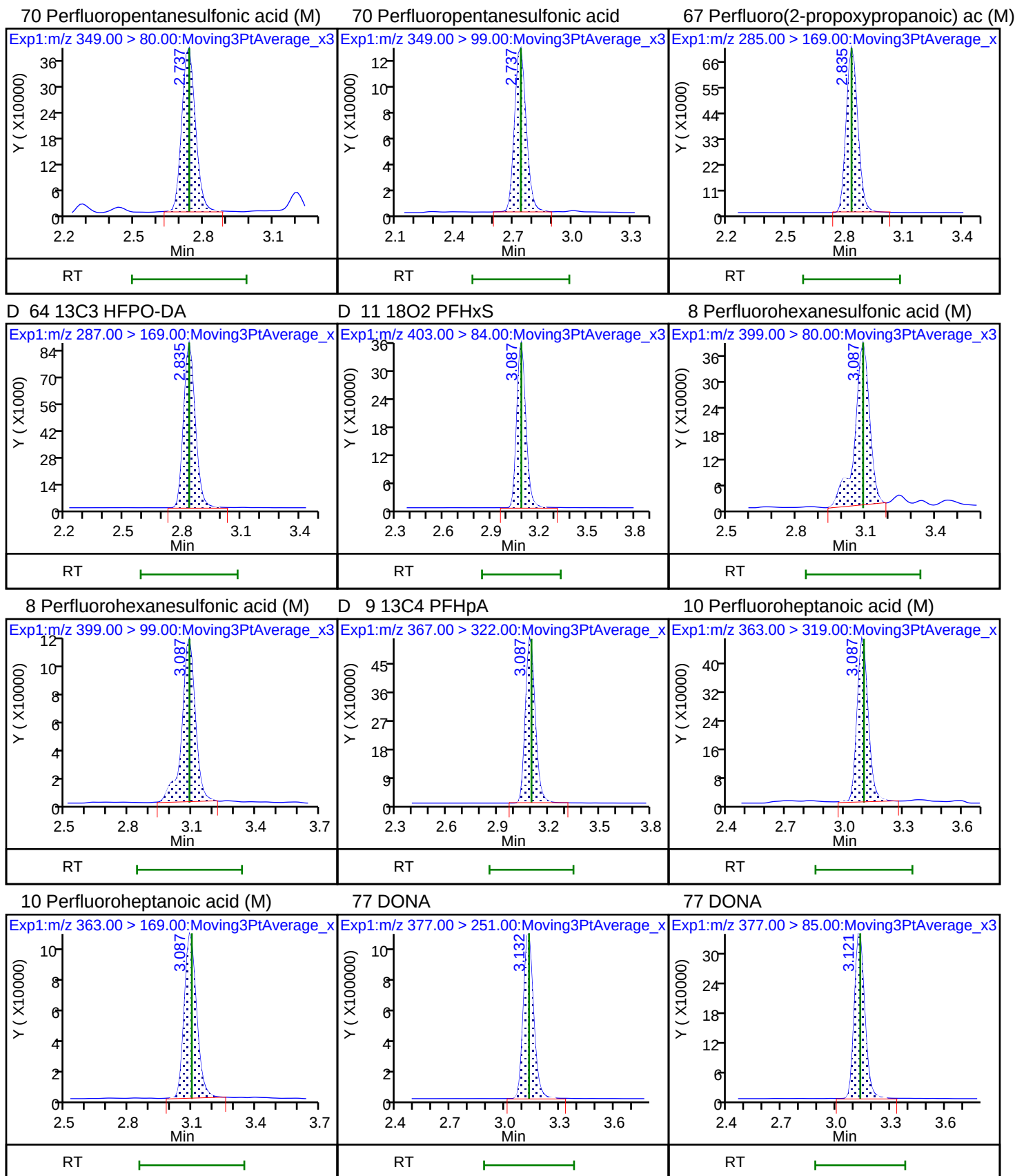


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

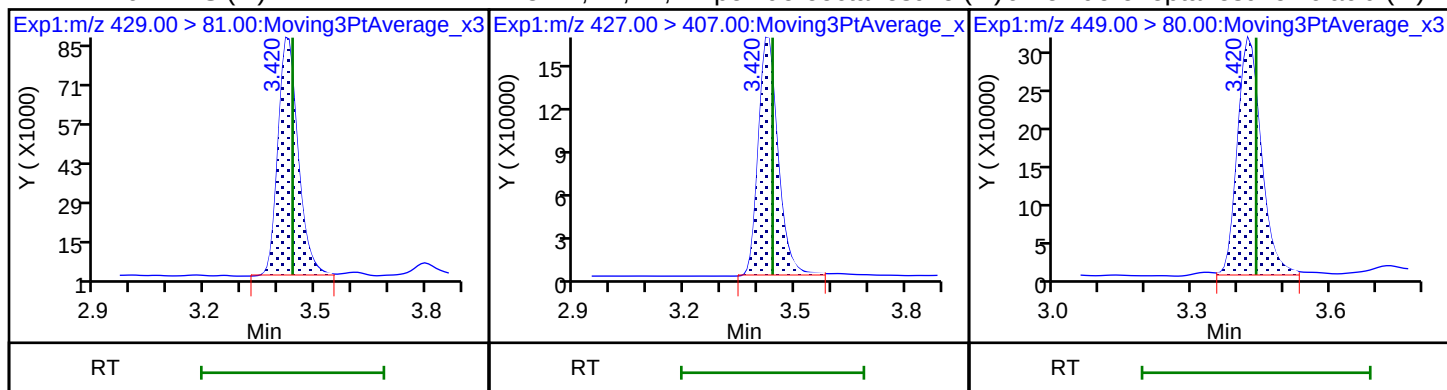
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS (M)

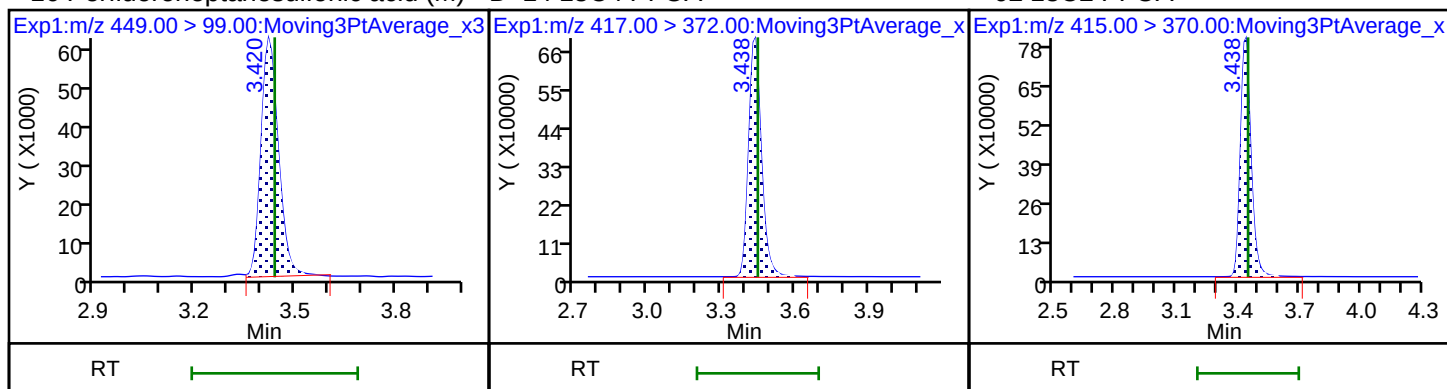
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

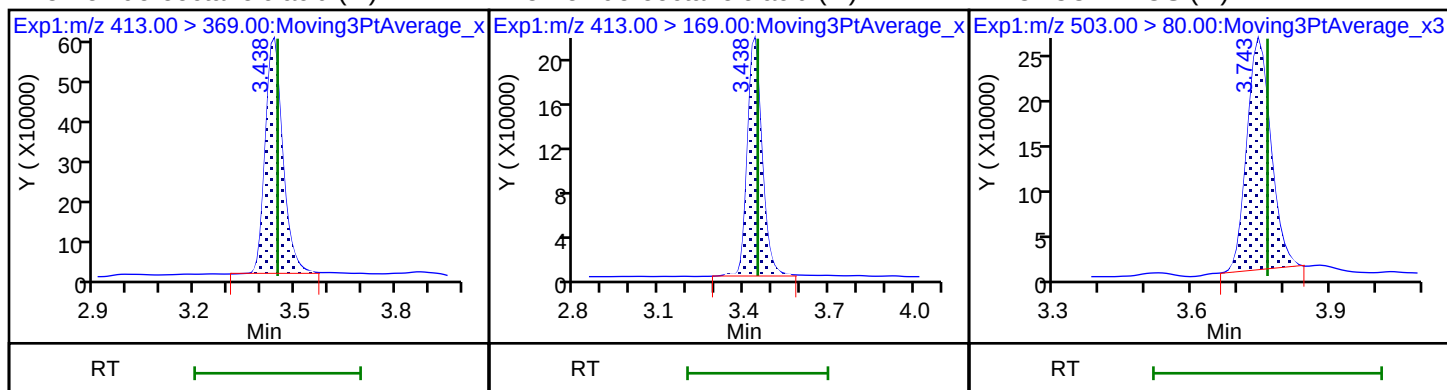
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

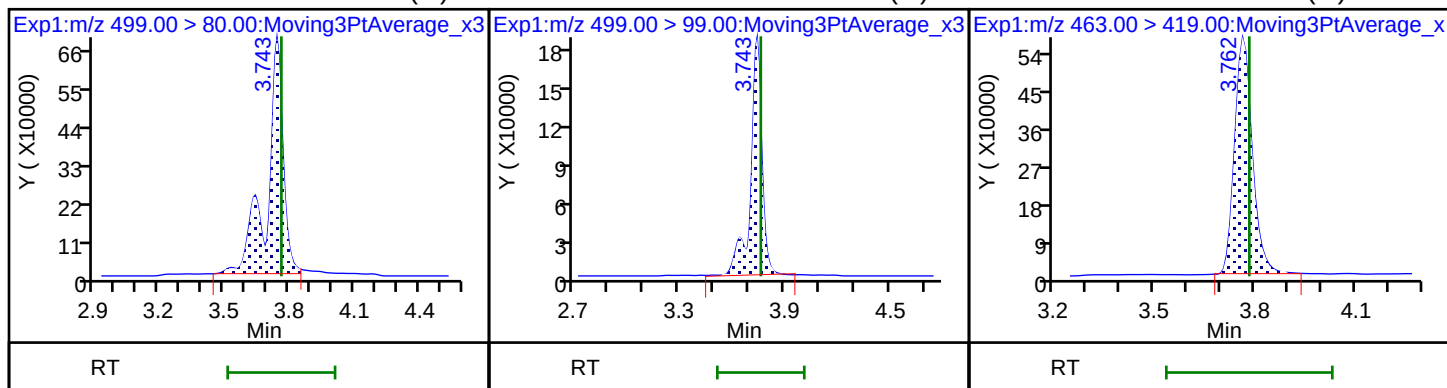
D 18 13C4 PFOS (M)

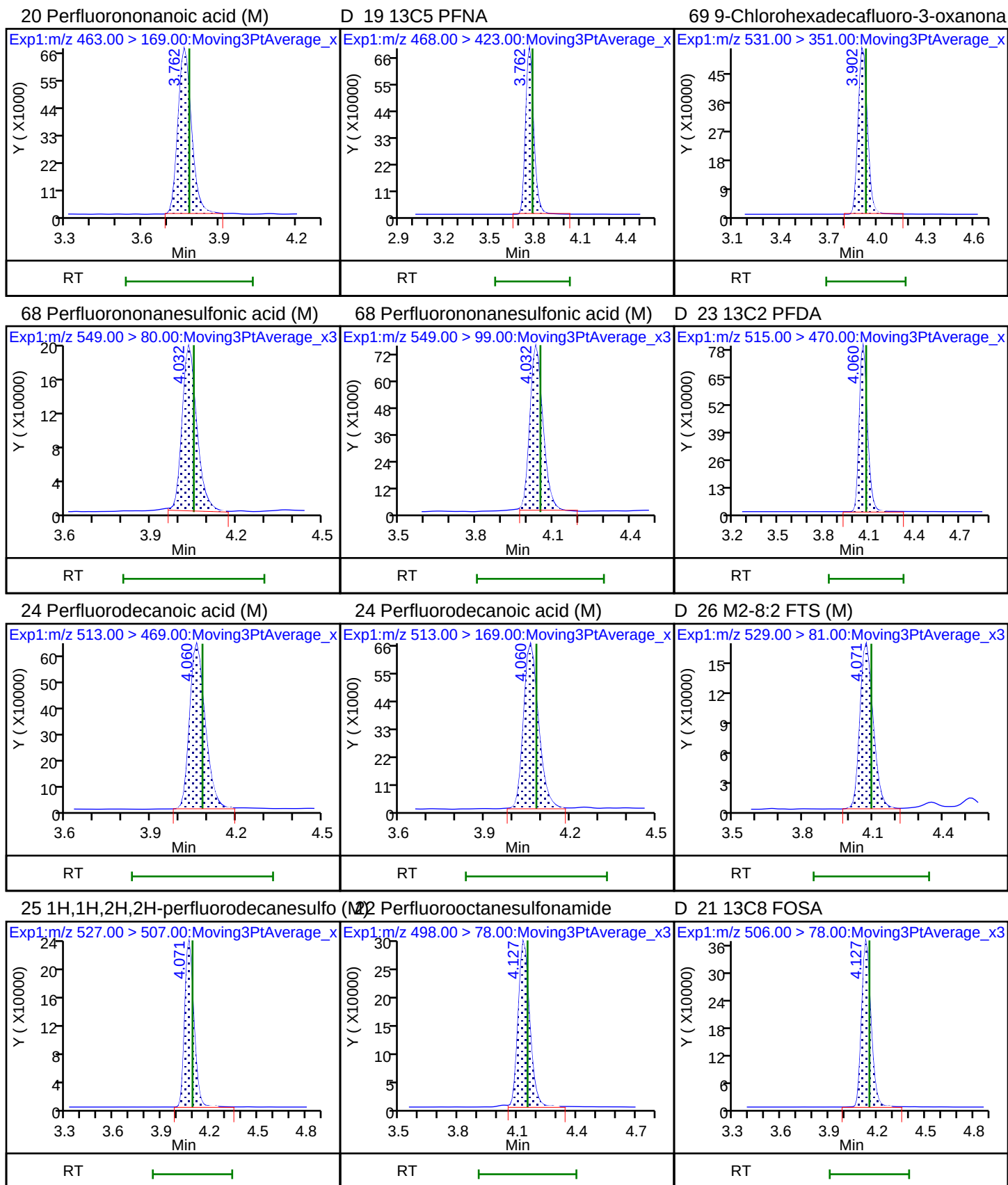


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

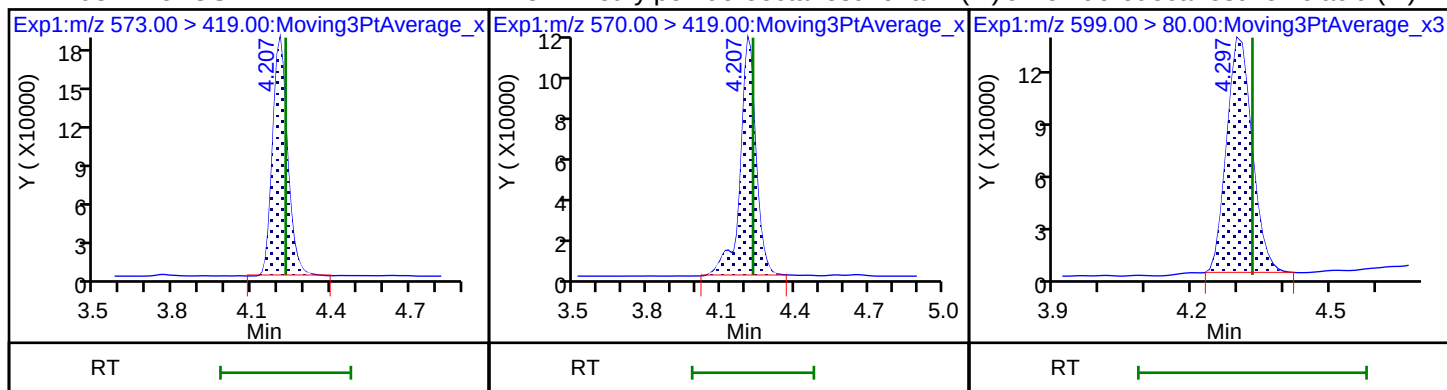
20 Perfluorononanoic acid (M)





D 27 d3-NMeFOSAA

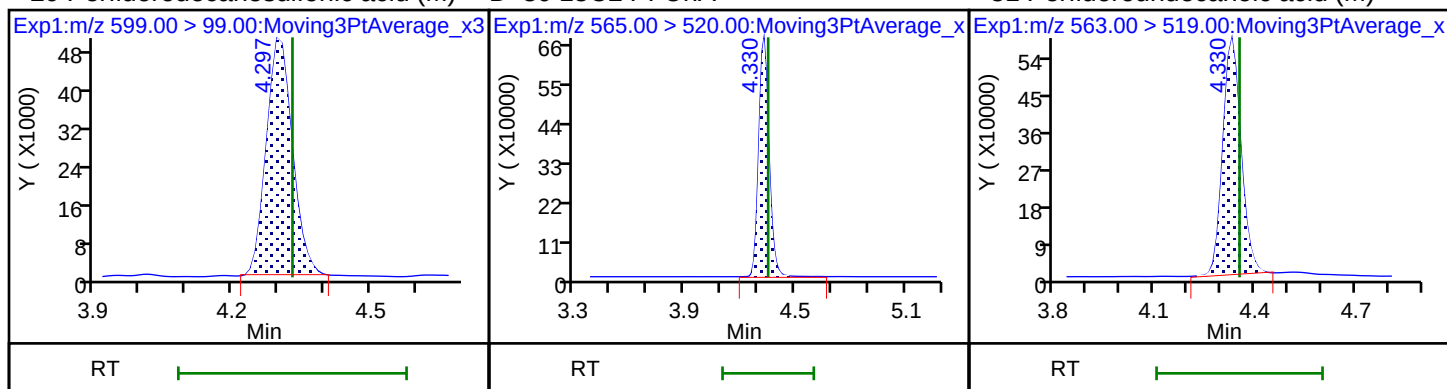
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

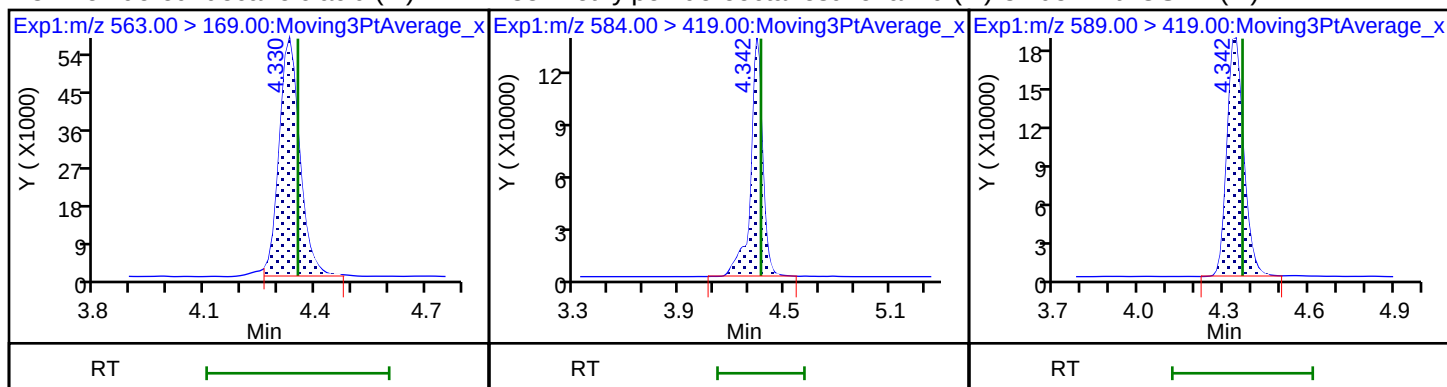
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

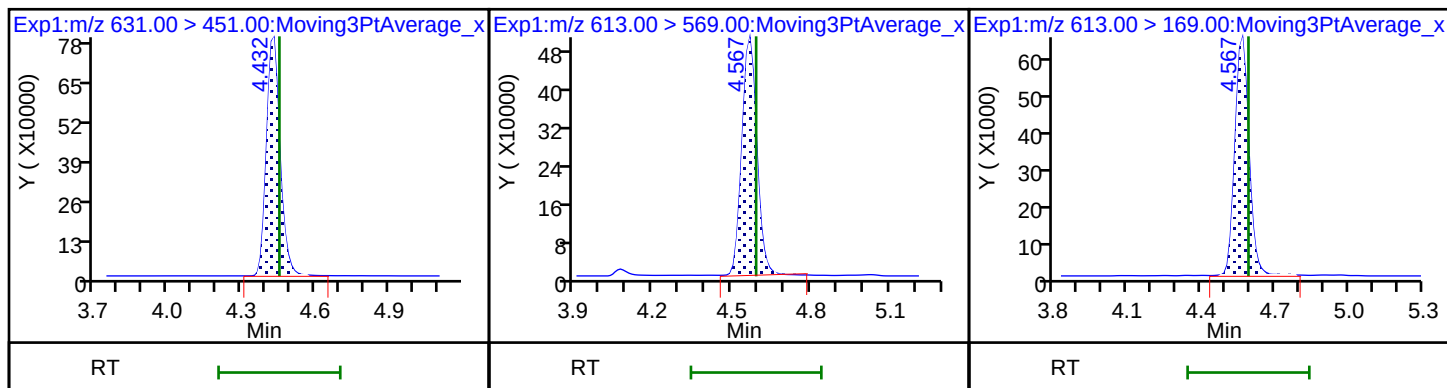
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

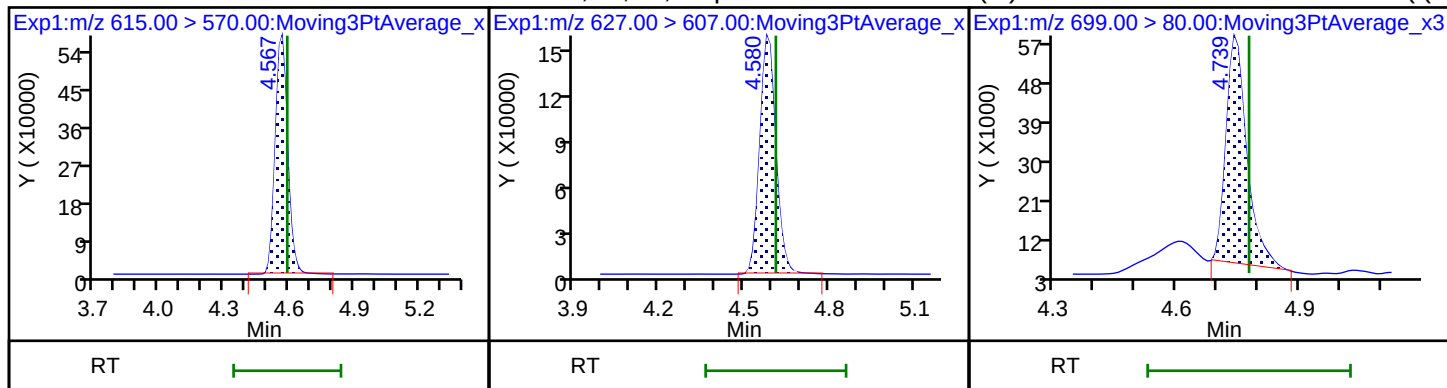
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

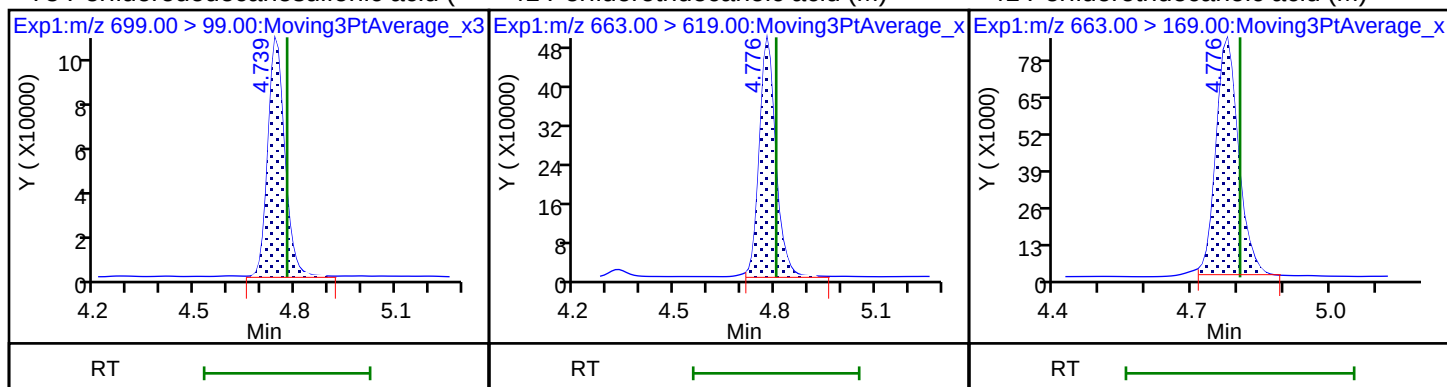
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

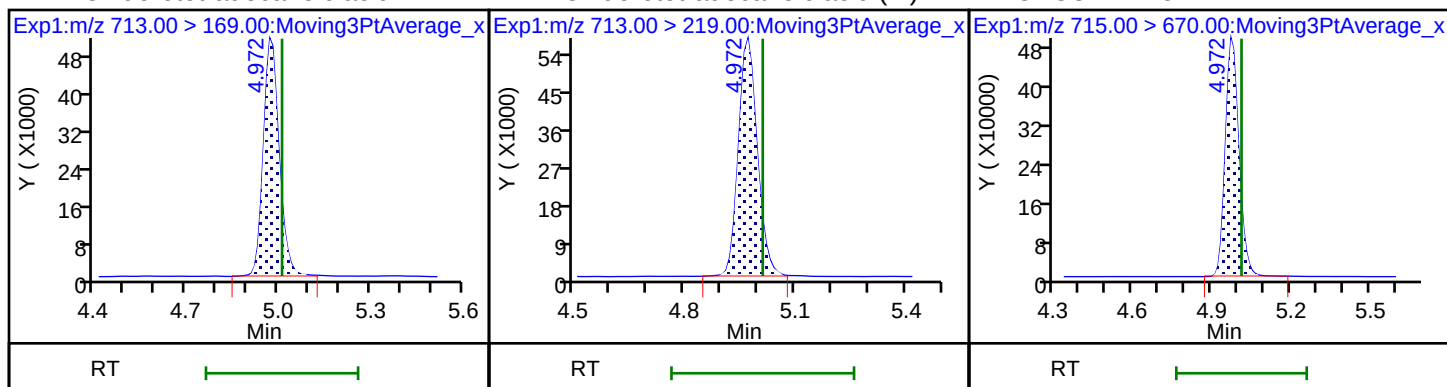
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

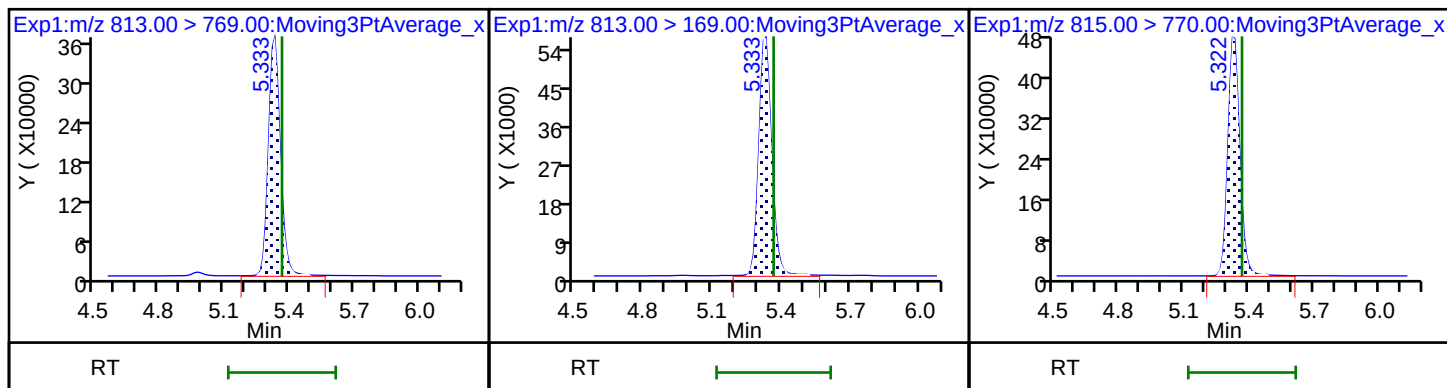
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

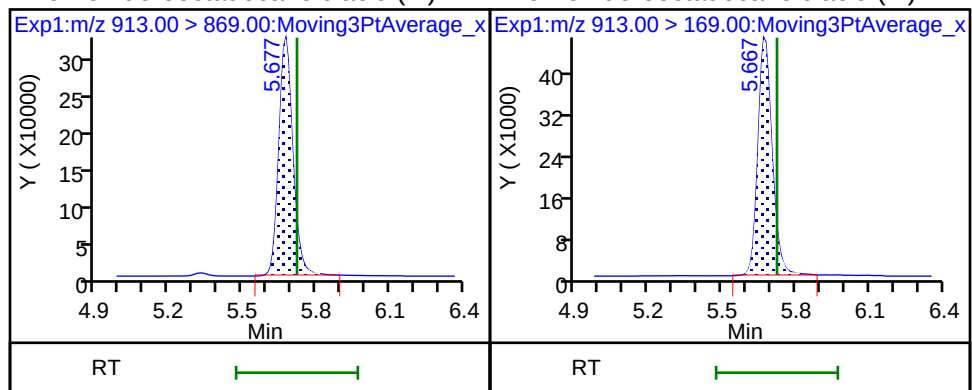
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

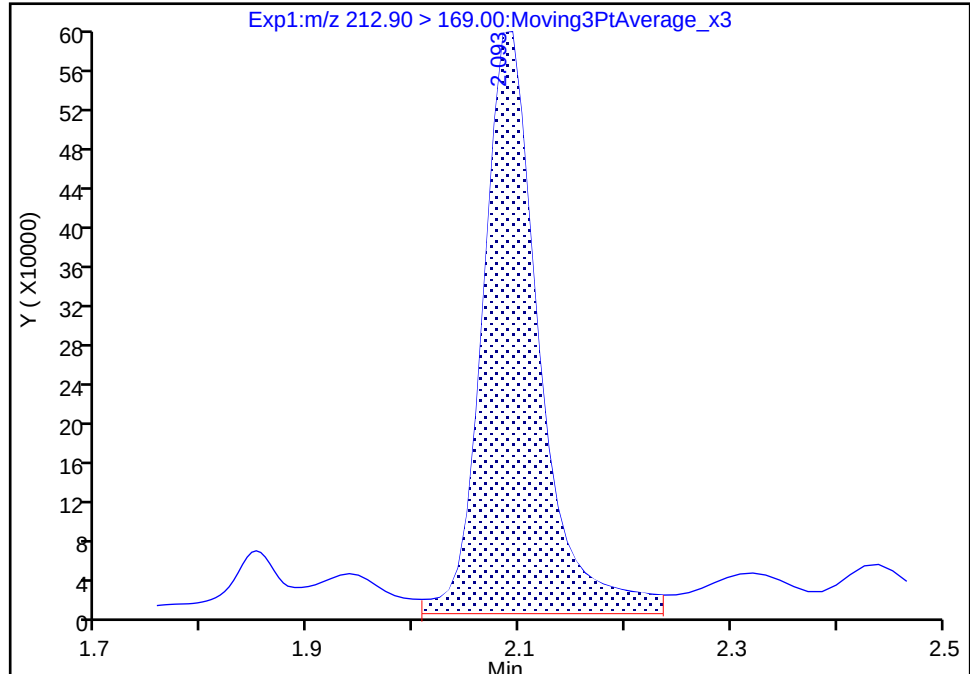
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

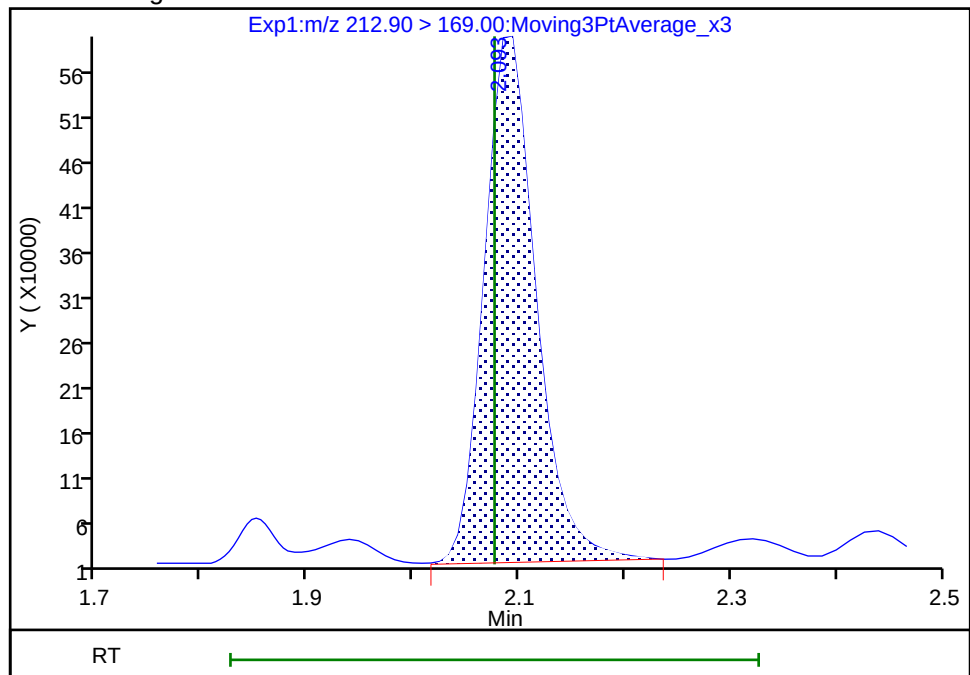
RT: 2.09
Area: 2212587
Amount: 1.086122
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1973224
Amount: 0.968623
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:37:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

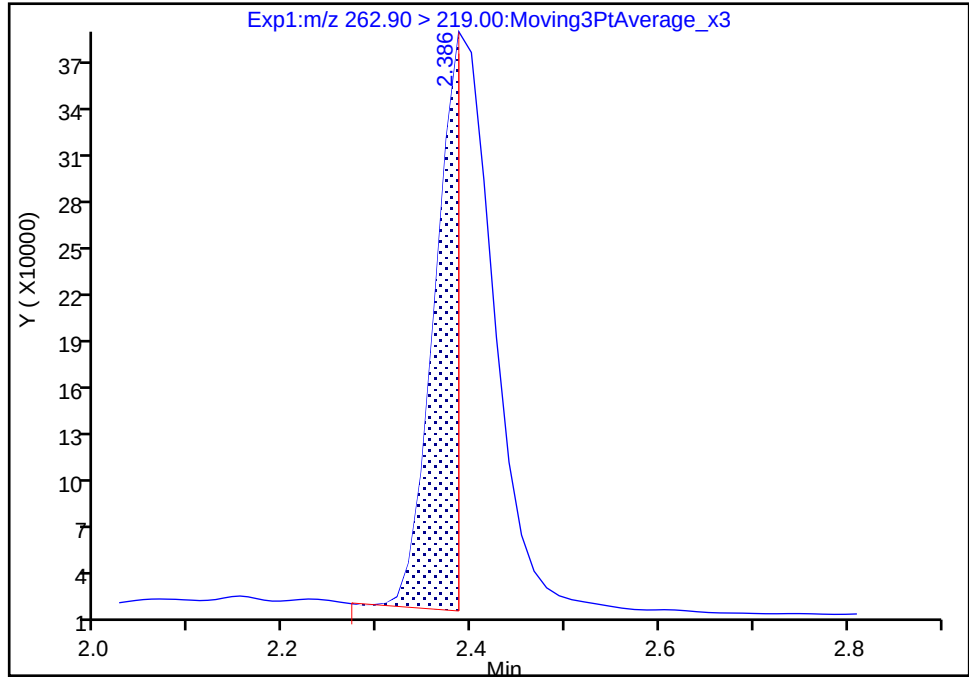
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

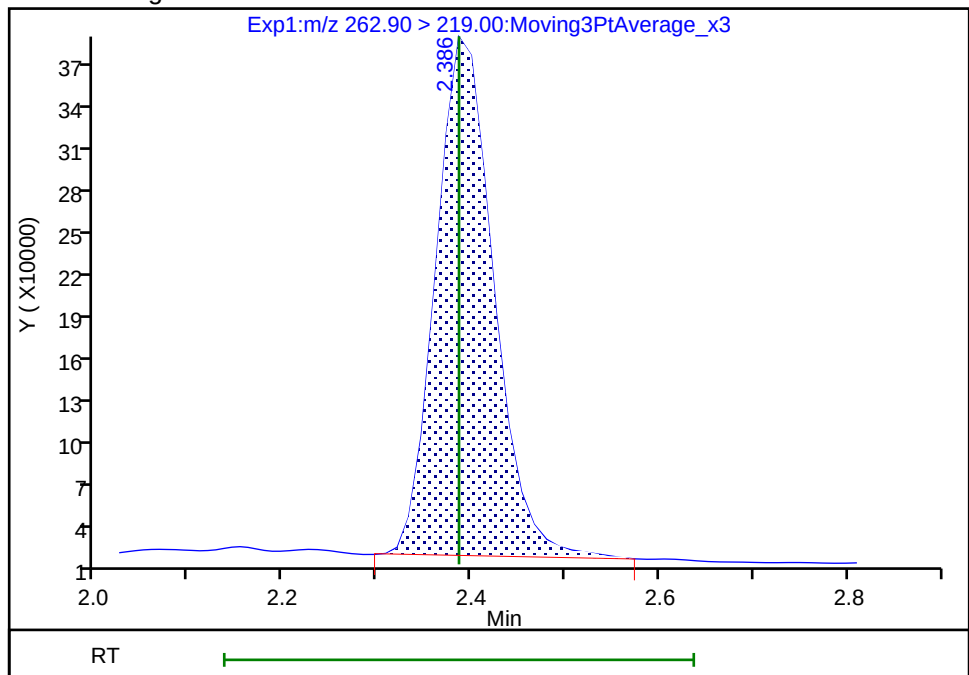
RT: 2.39
Area: 643847
Amount: 0.401203
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1594723
Amount: 0.993727
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:37:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

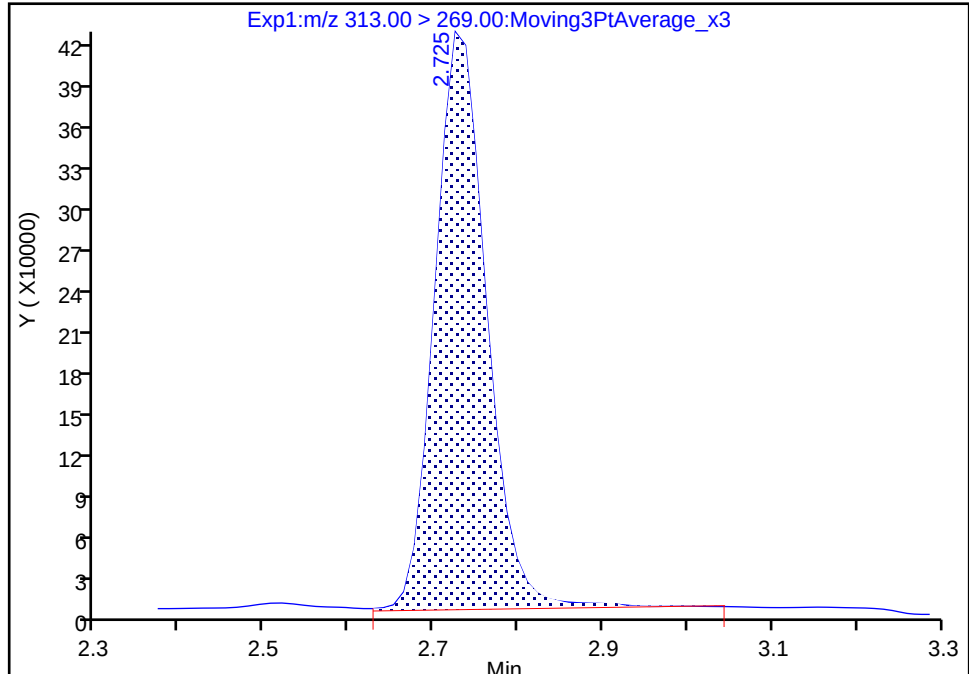
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

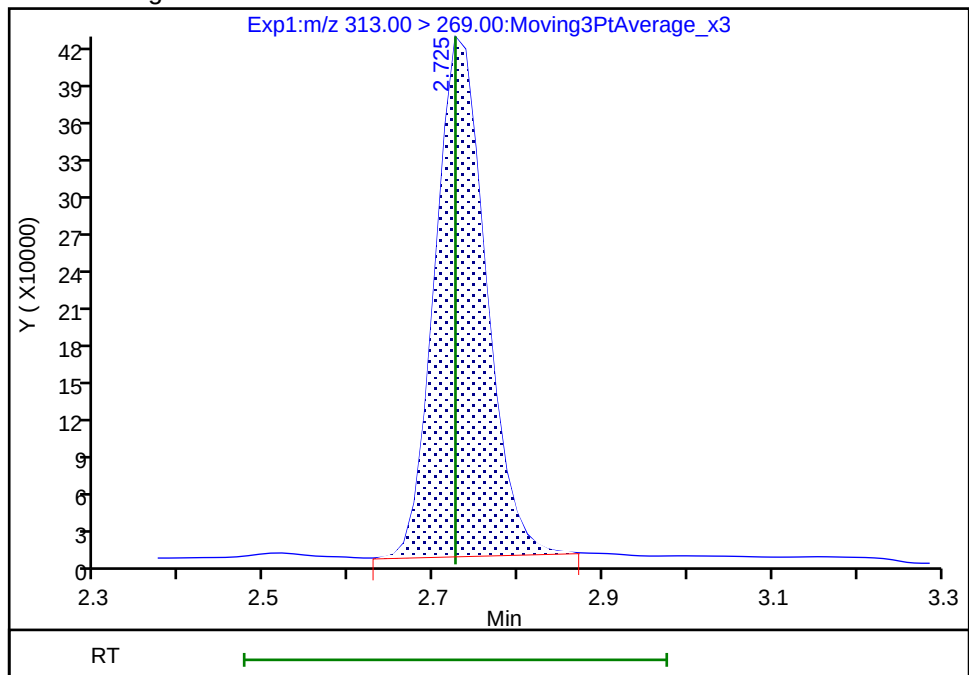
RT: 2.73
Area: 1791886
Amount: 1.042556
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1739088
Amount: 1.011837
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:46:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

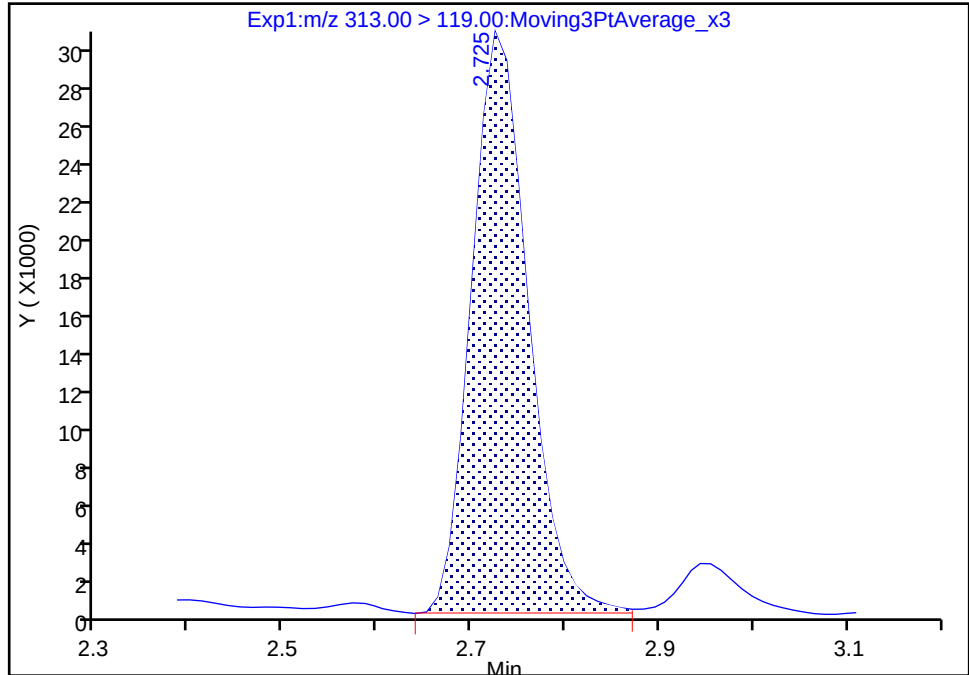
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

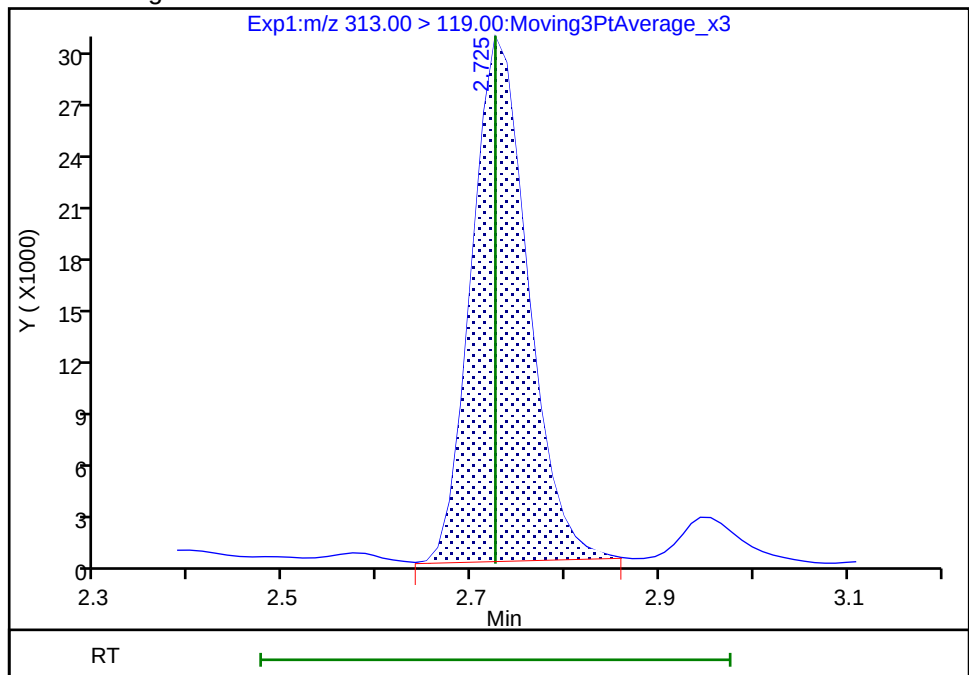
RT: 2.73
Area: 125037
Amount: 1.042556
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 123266
Amount: 1.011837
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:46:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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PM

Eurofins Burlington

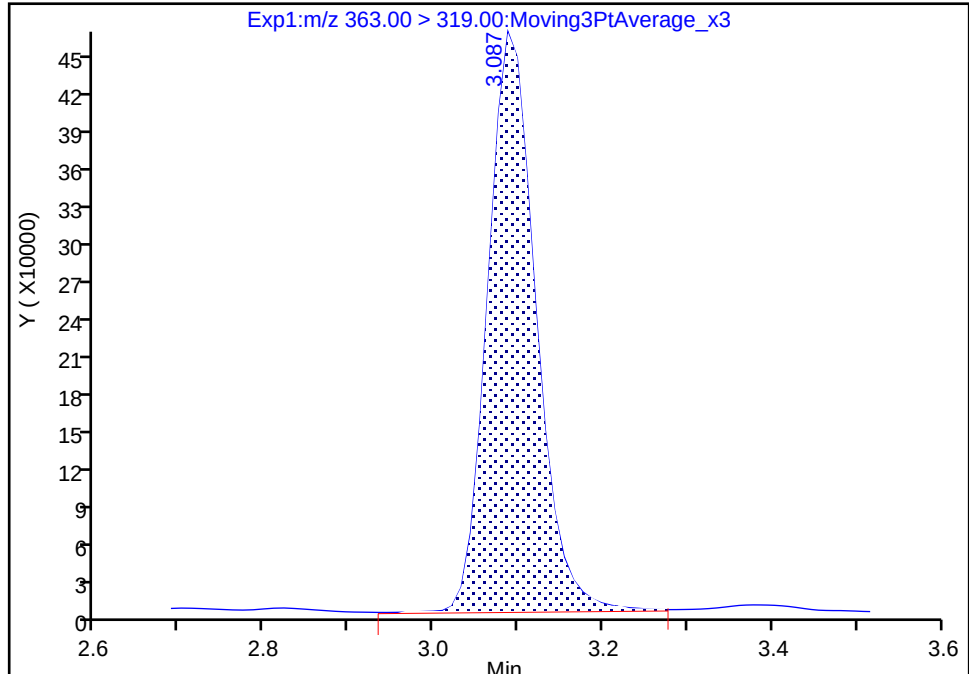
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

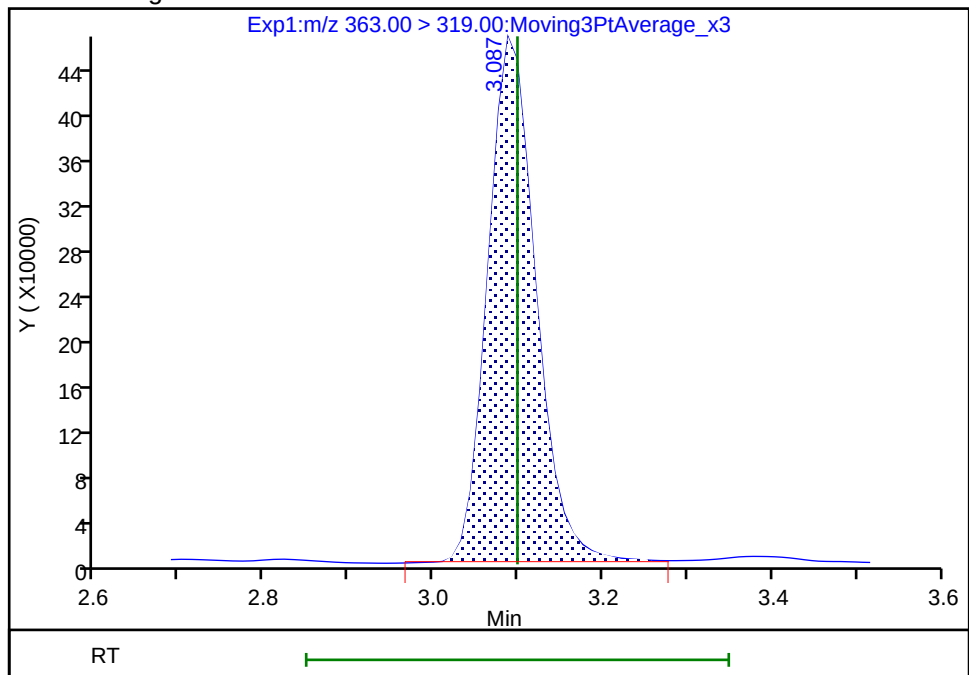
RT: 3.09
Area: 1832995
Amount: 0.994335
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1797960
Amount: 0.975330
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:38:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

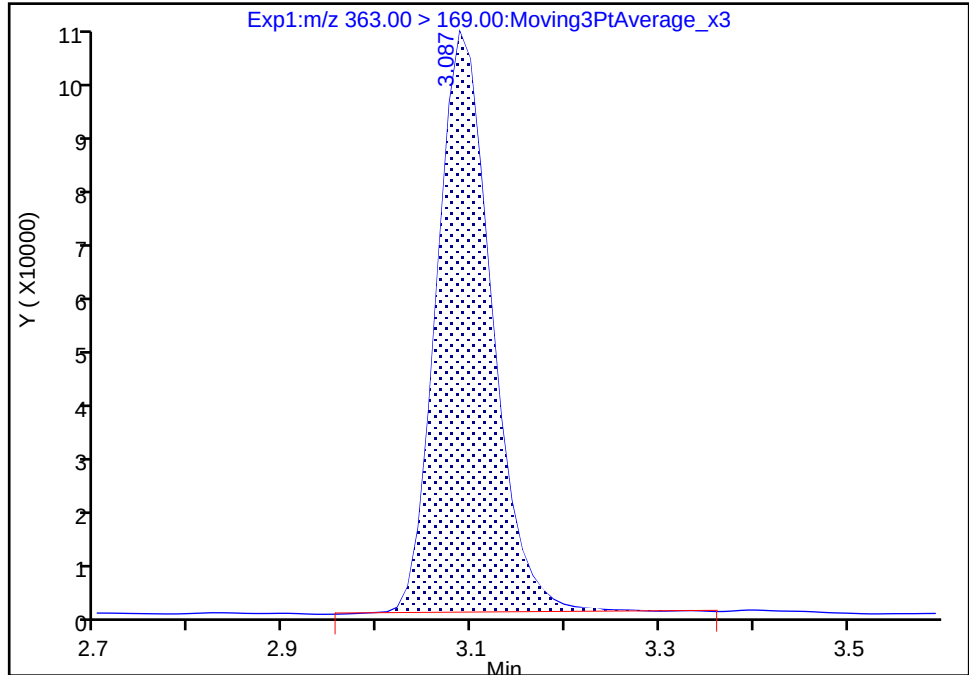
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

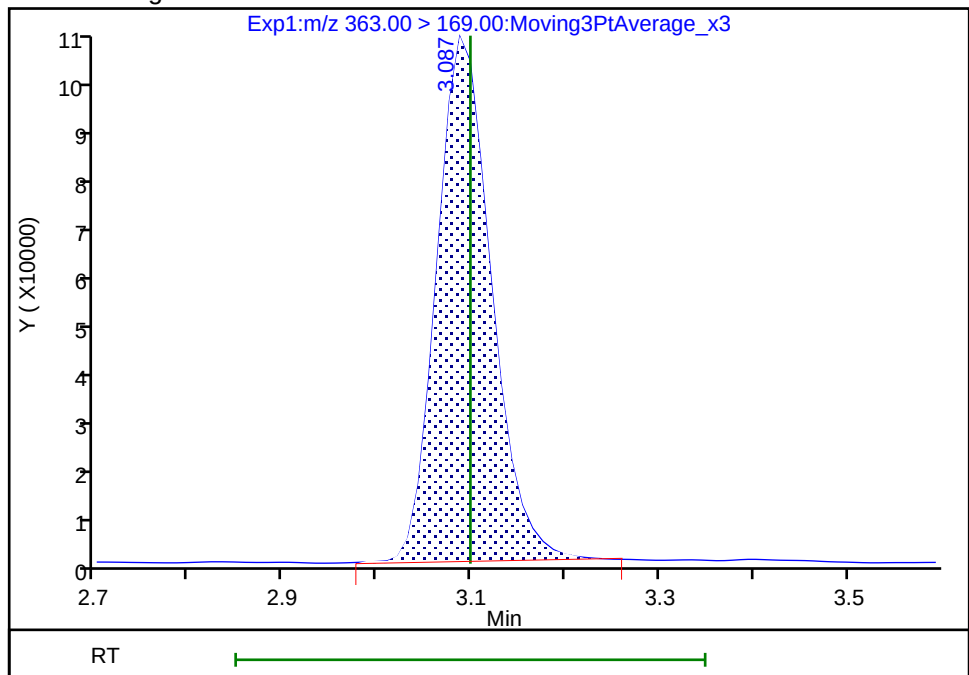
RT: 3.09
Area: 444250
Amount: 0.994335
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 438574
Amount: 0.975330
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:38:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

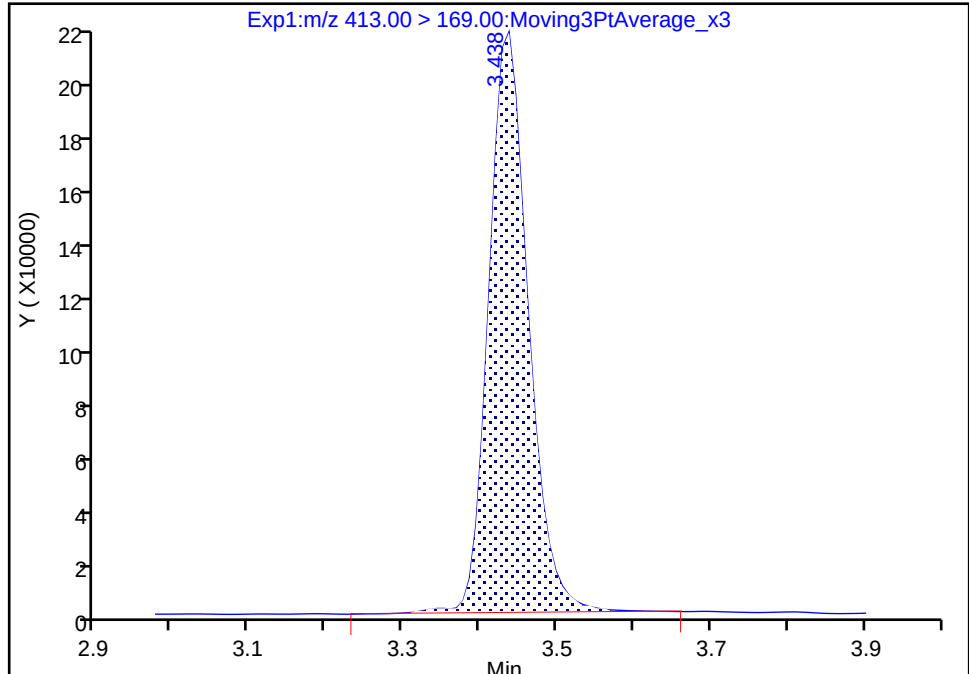
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

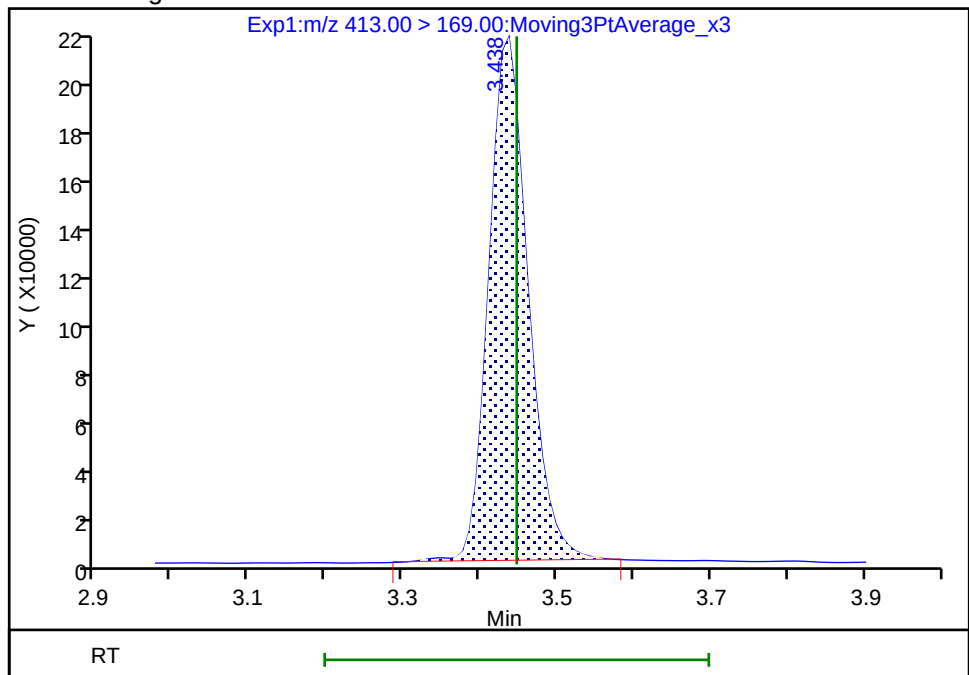
RT: 3.44
Area: 771533
Amount: 1.013451
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 763200
Amount: 1.008458
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:39:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

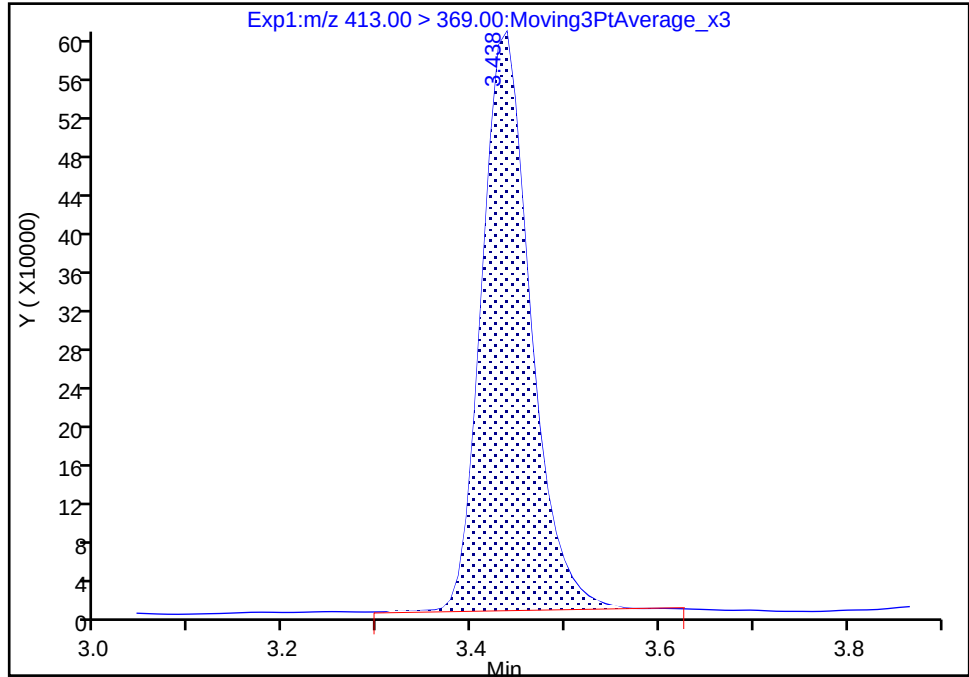
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

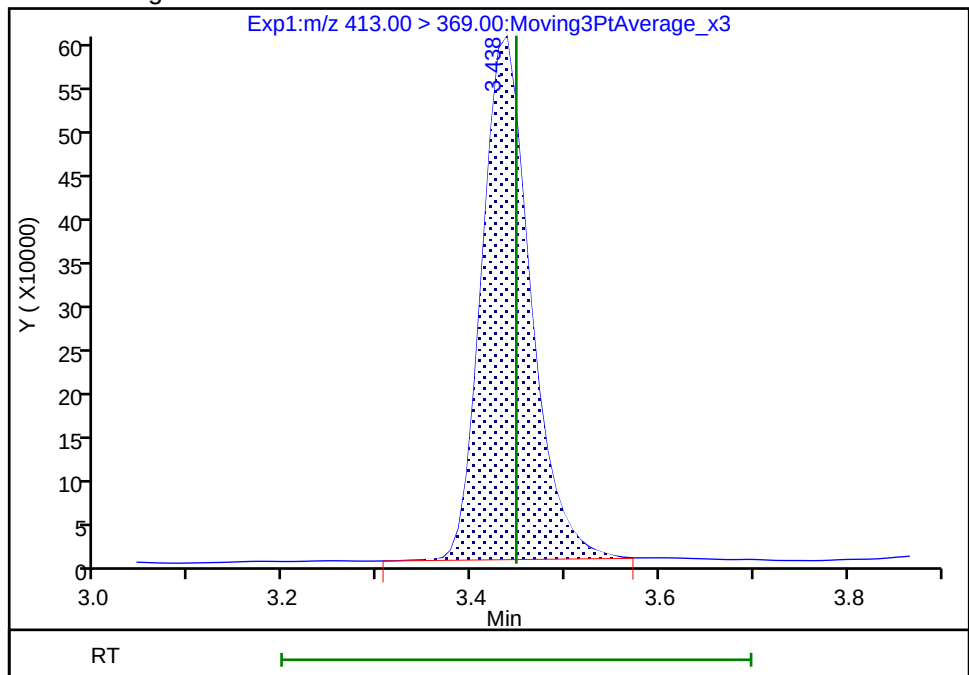
RT: 3.44
Area: 2162619
Amount: 1.013451
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2151964
Amount: 1.008458
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:39:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

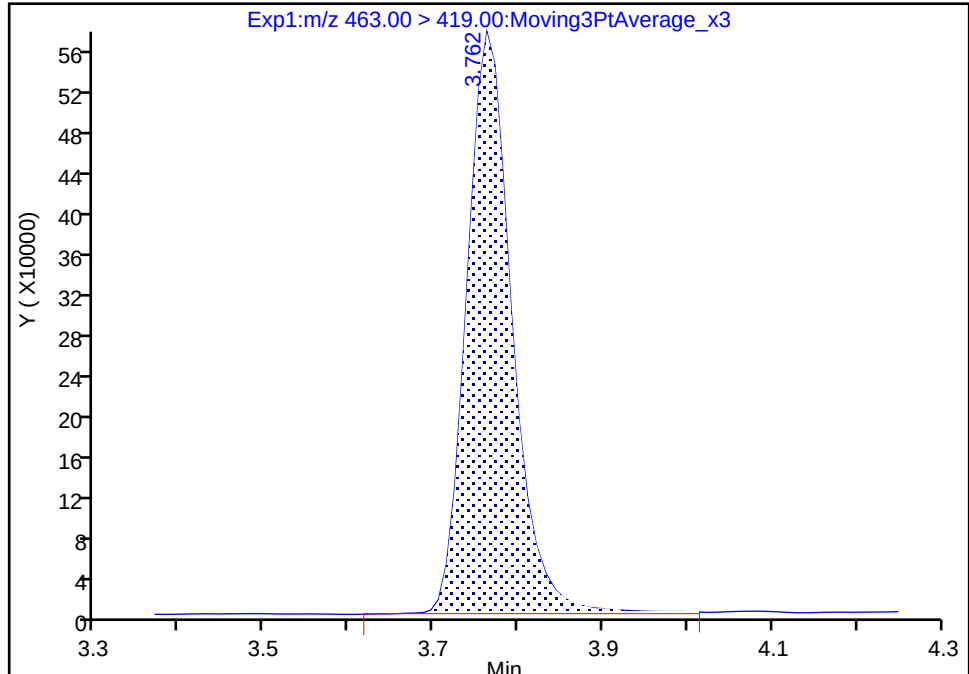
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

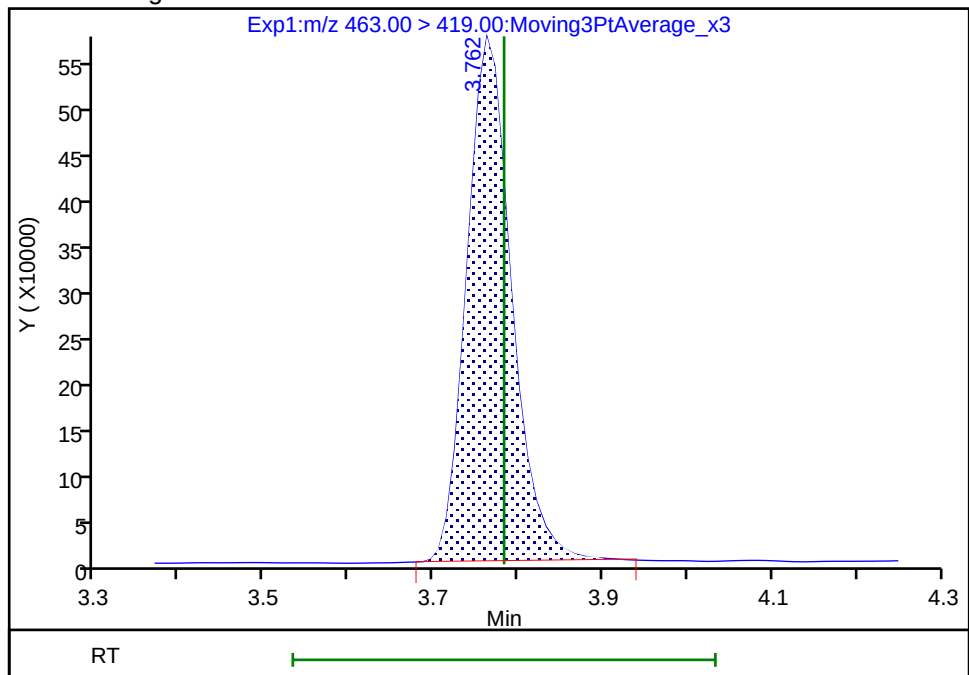
RT: 3.76
Area: 2122718
Amount: 0.995797
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 2087077
Amount: 0.979077
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:39:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

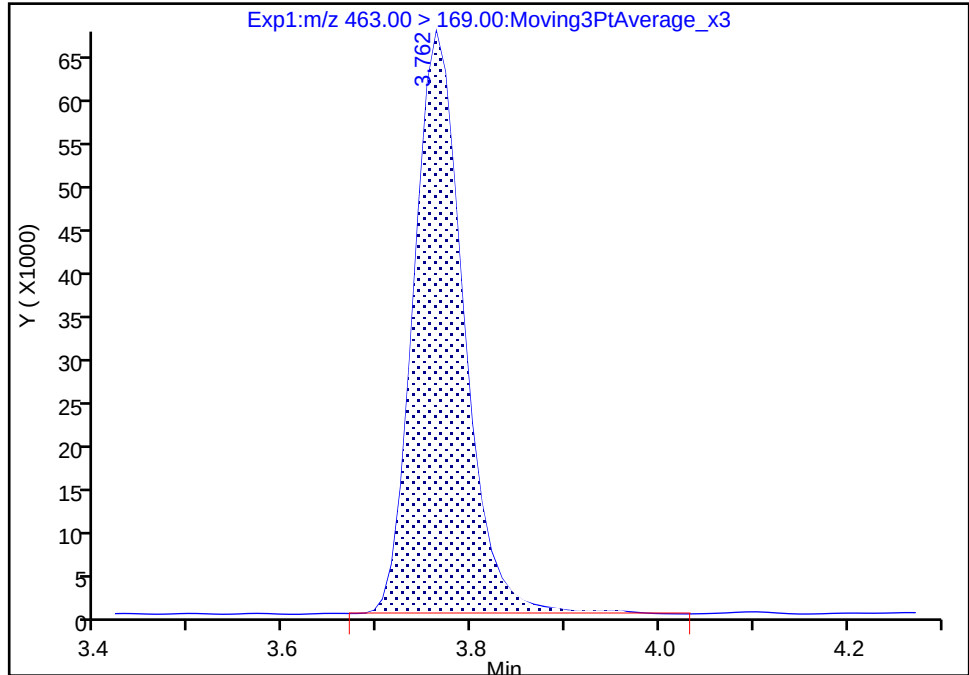
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

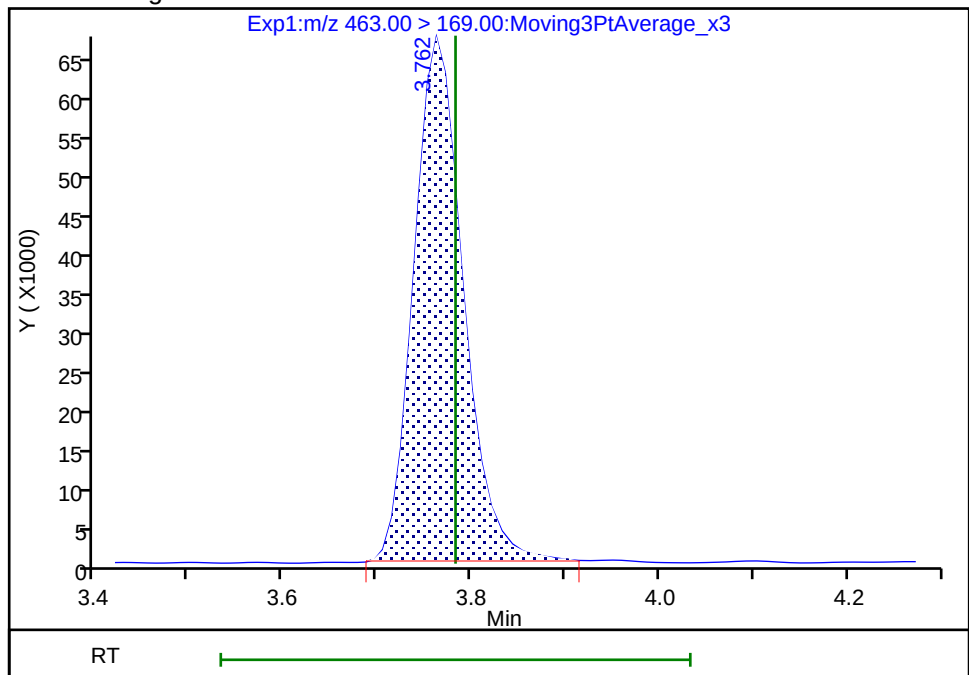
RT: 3.76
Area: 248140
Amount: 0.995797
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 244576
Amount: 0.979077
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

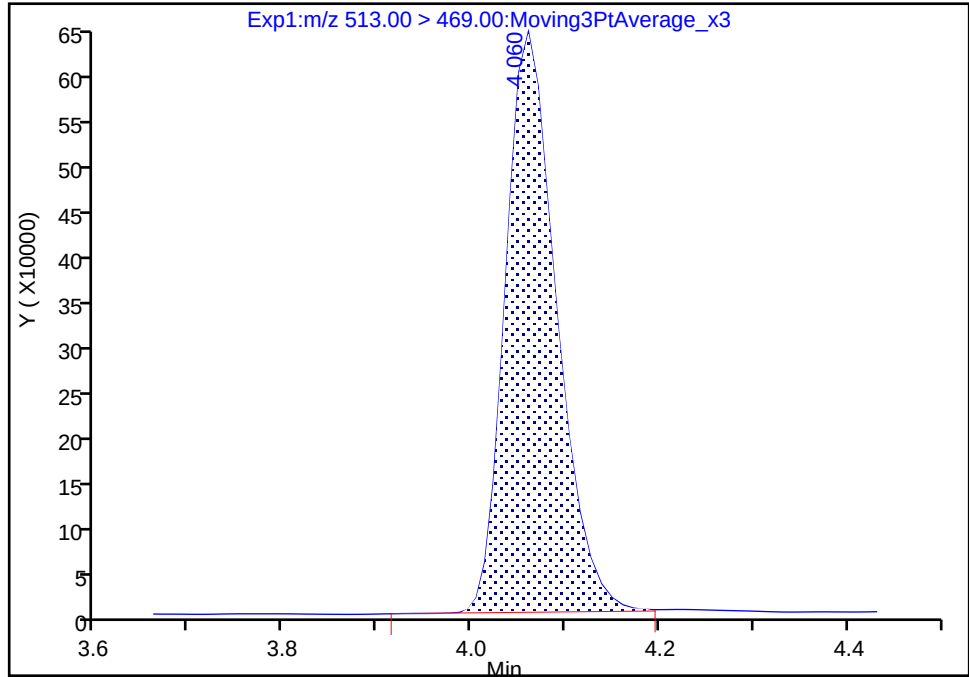
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

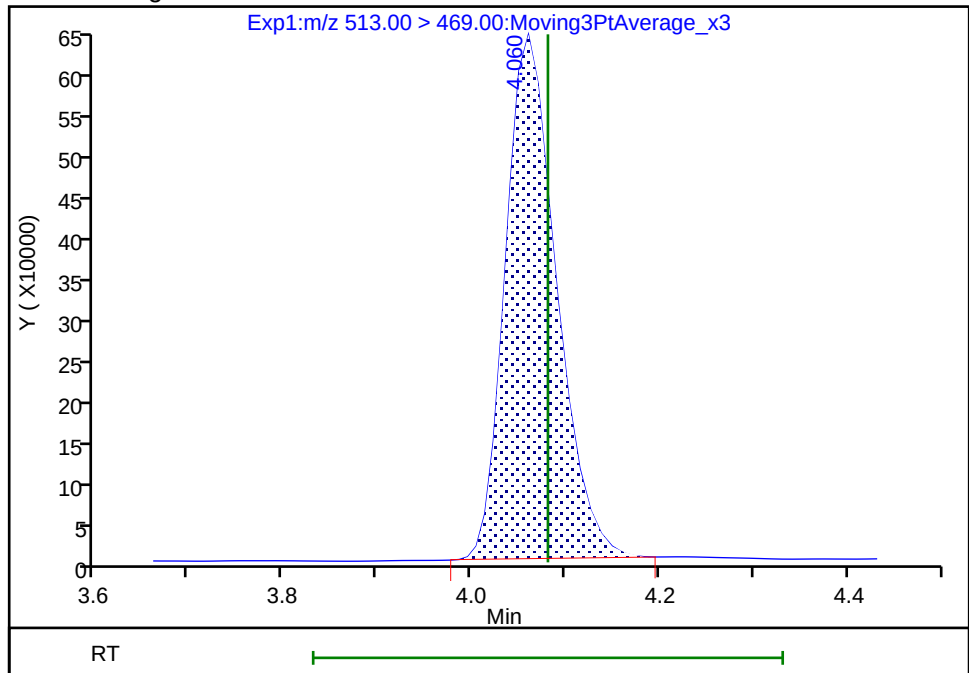
RT: 4.06
Area: 2405080
Amount: 0.939584
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 2401990
Amount: 0.938377
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

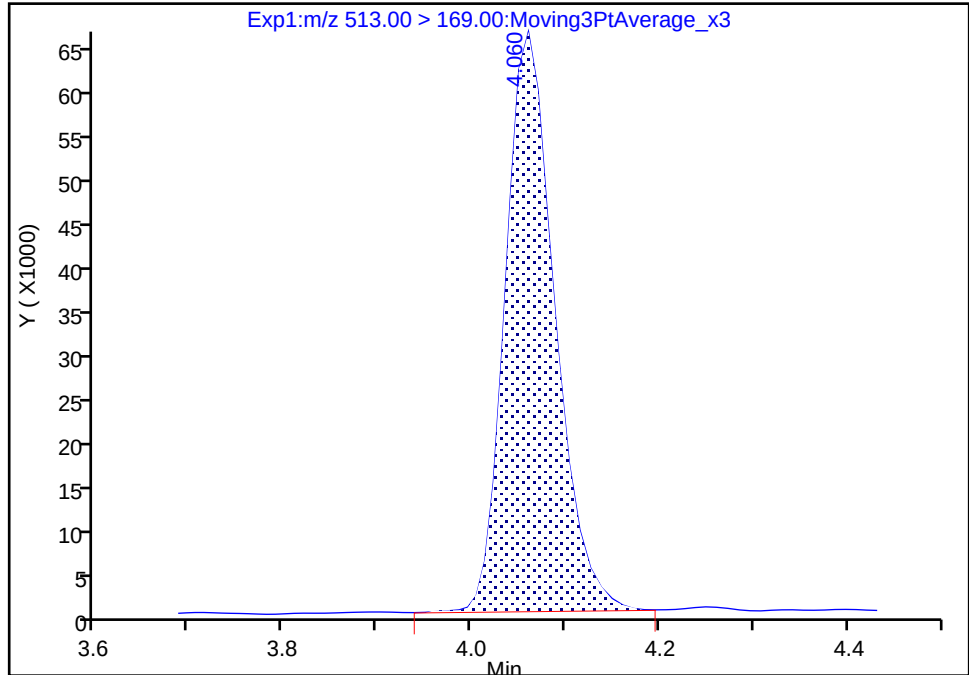
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

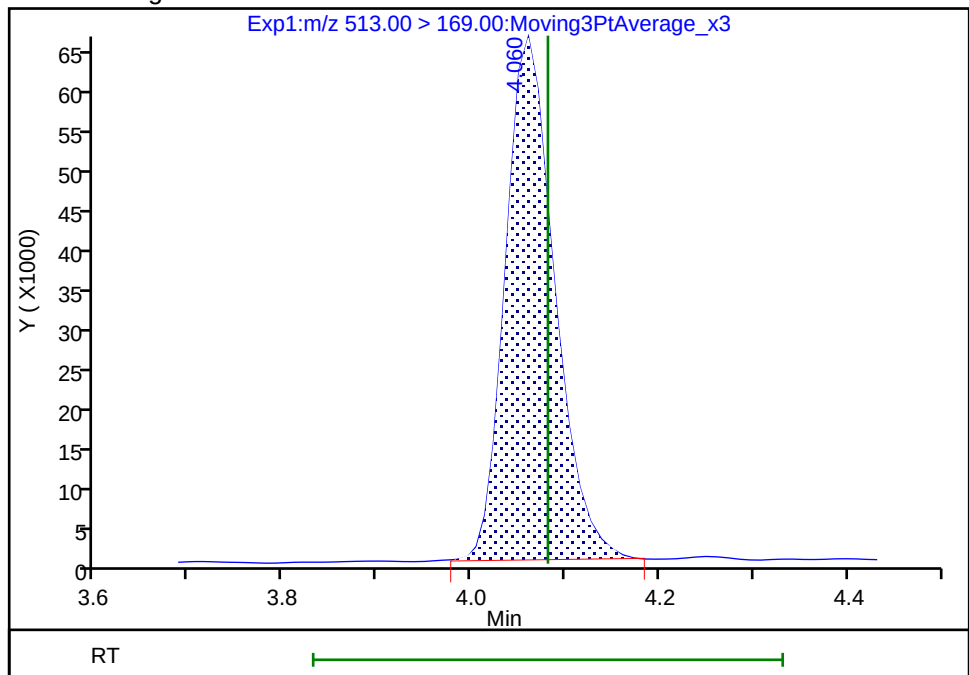
RT: 4.06
Area: 243271
Amount: 0.939584
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 240333
Amount: 0.938377
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

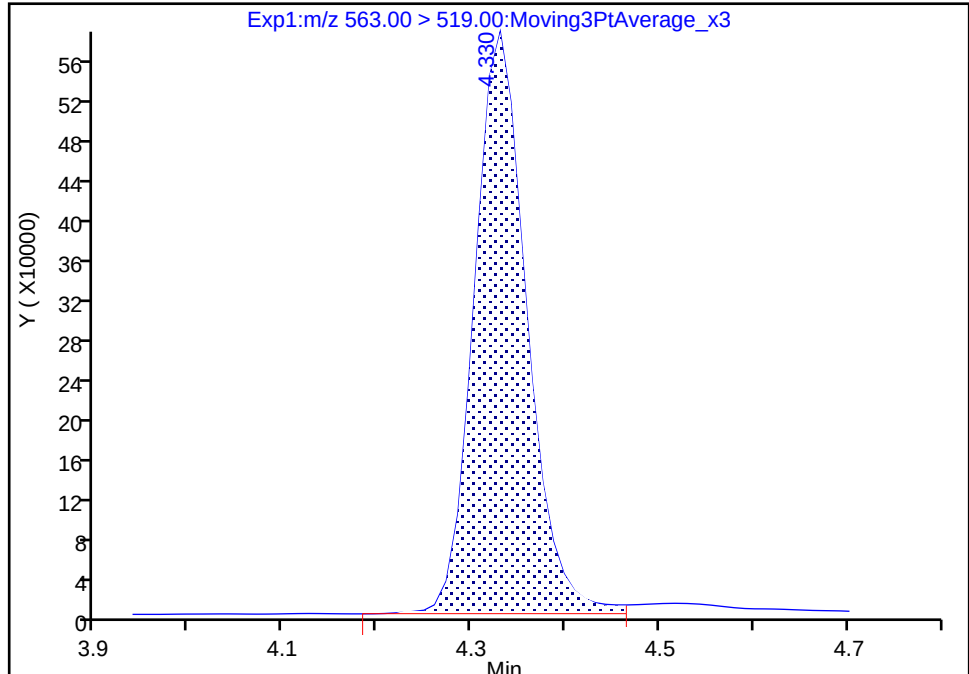
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

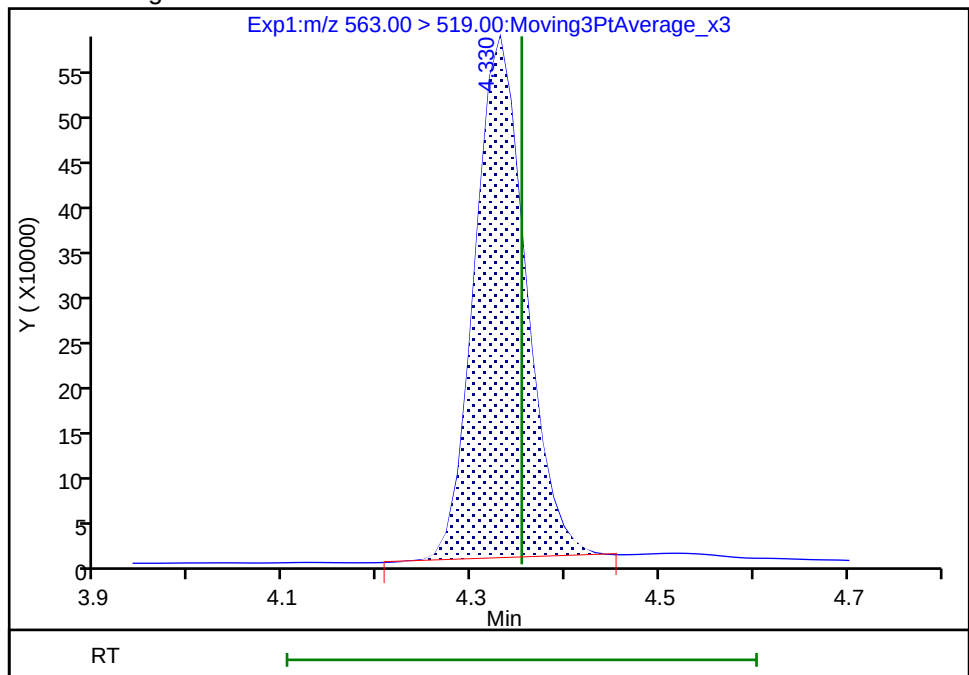
RT: 4.33
Area: 2264064
Amount: 1.063511
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 2196092
Amount: 1.031582
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

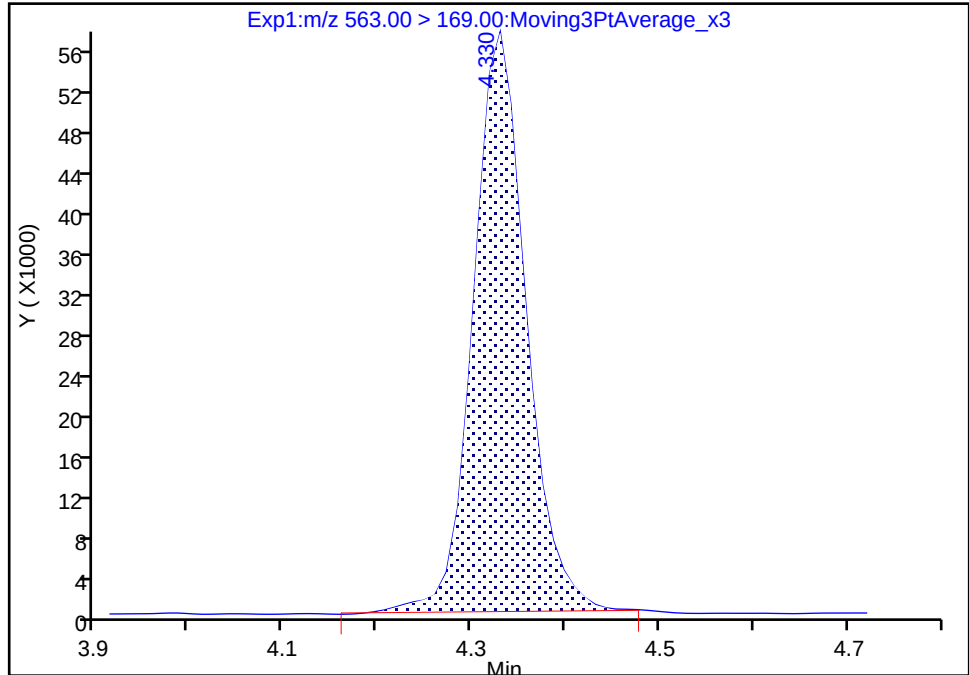
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

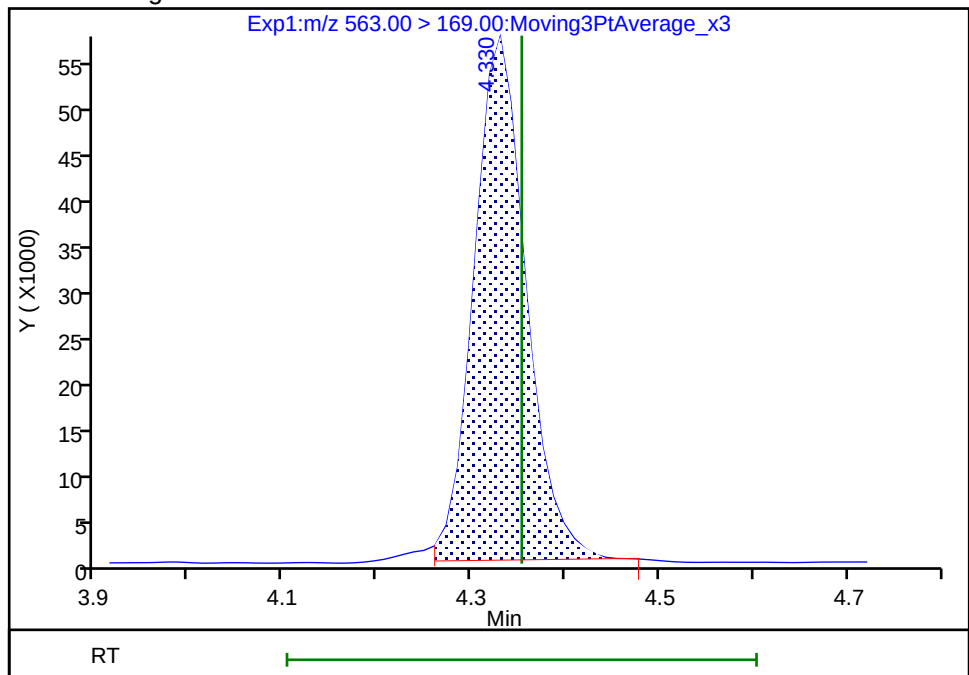
RT: 4.33
Area: 222148
Amount: 1.063511
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 218630
Amount: 1.031582
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:48:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

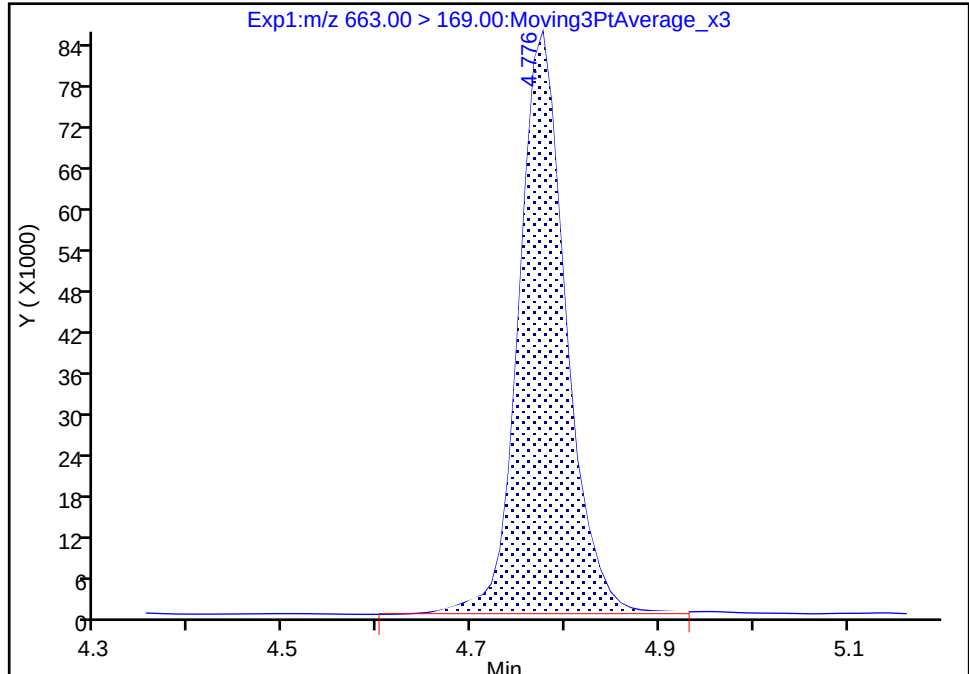
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d		
Injection Date:	05-Jan-2023 17:08:24	Instrument ID:	LC812
Lims ID:	460-271803-A-3-C MSD		
Client ID:	SED-3		
Operator ID:	lc812tech	ALS Bottle#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	18

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

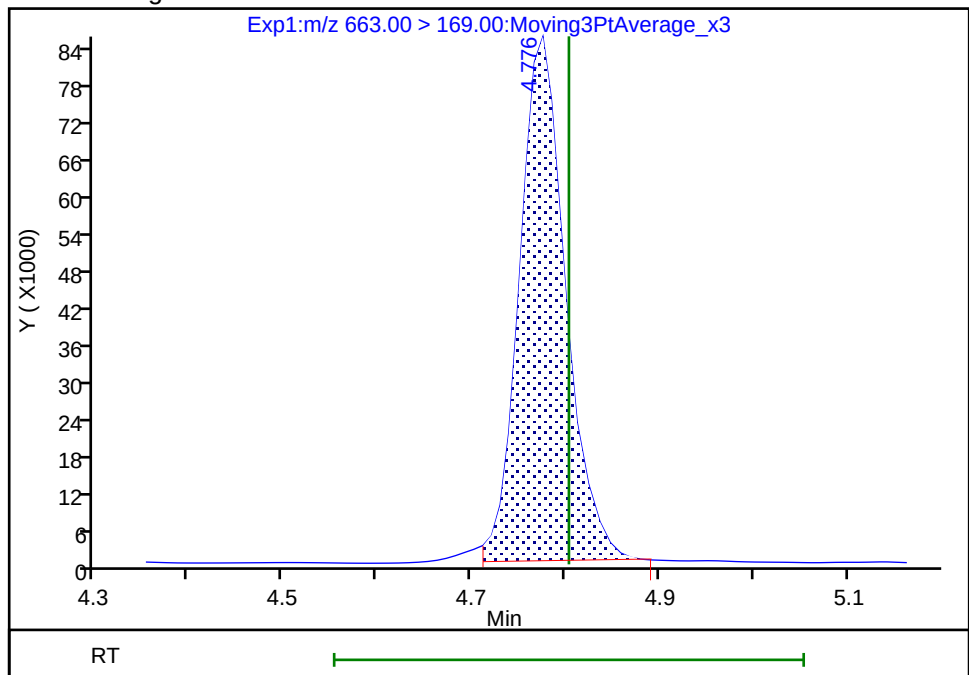
RT: 4.78
Area: 299290
Amount: 0.914062
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 290550
Amount: 0.904327
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:48:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

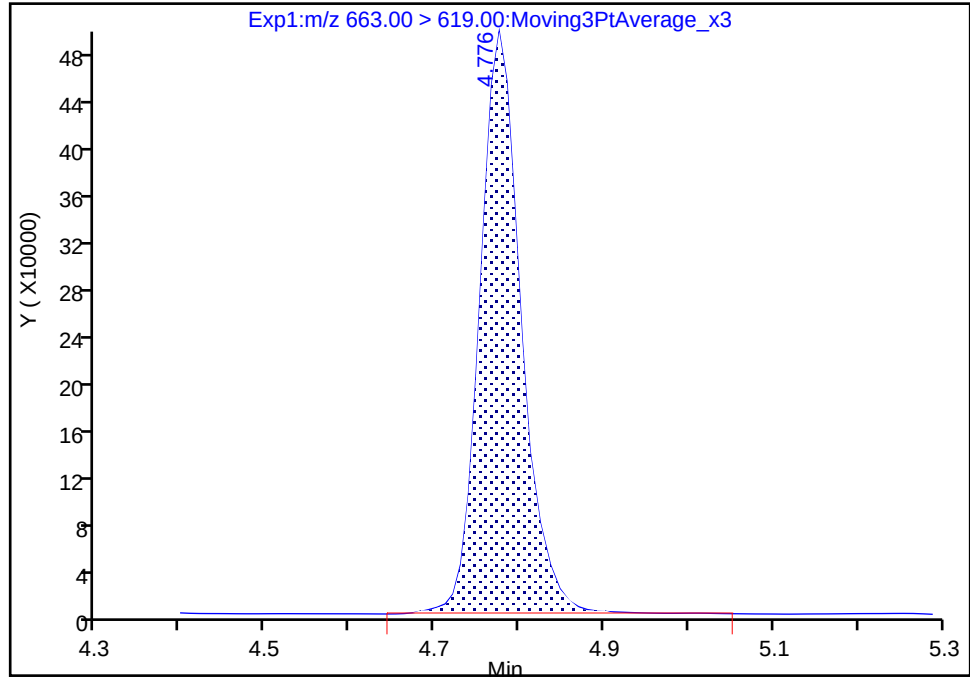
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

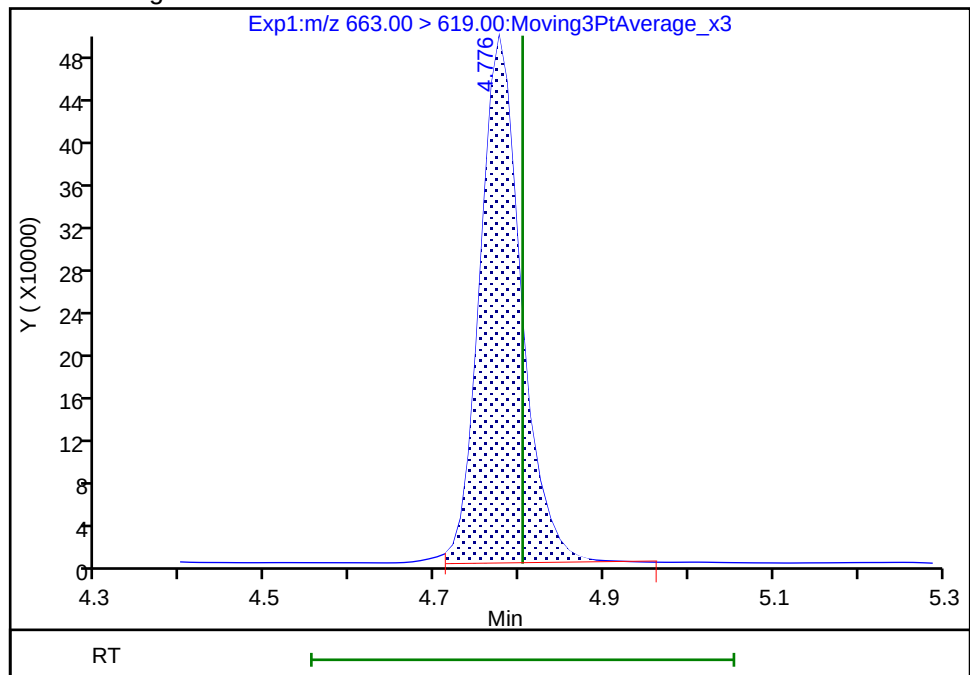
RT: 4.78
Area: 1693191
Amount: 0.914062
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 1675157
Amount: 0.904327
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:48:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

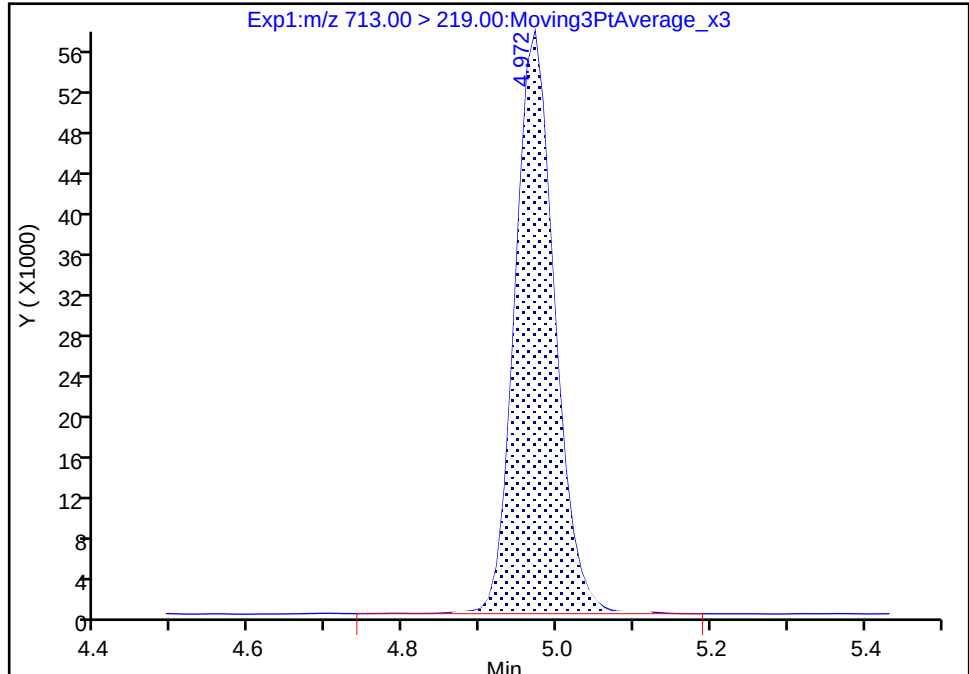
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

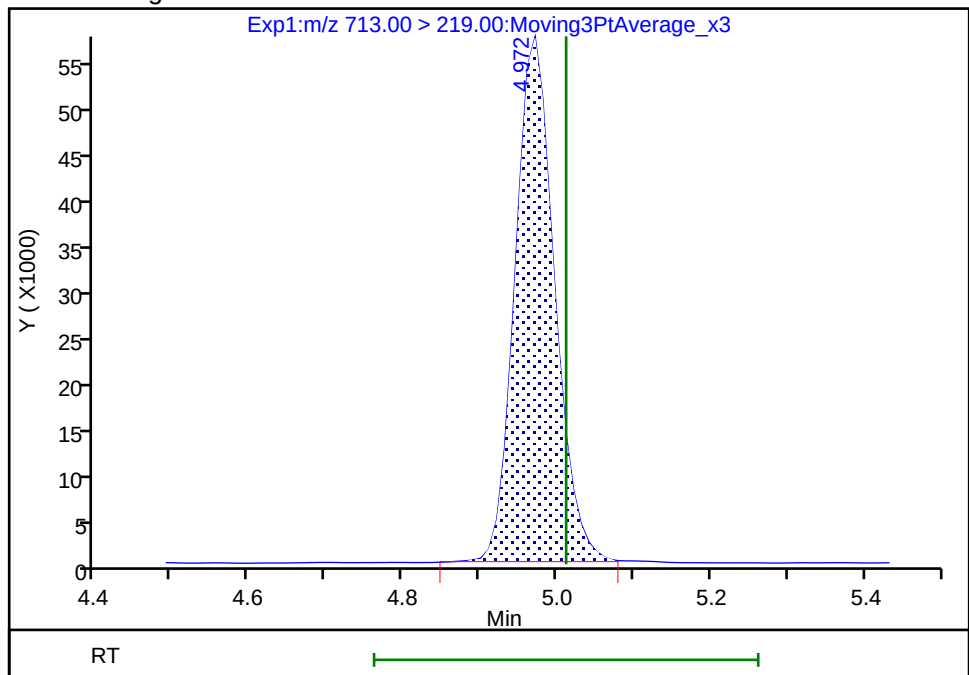
RT: 4.97
Area: 206522
Amount: 0.946382
Amount Units: ng/ml

Processing Integration Results



RT: 4.97
Area: 202774
Amount: 0.946382
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:41:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

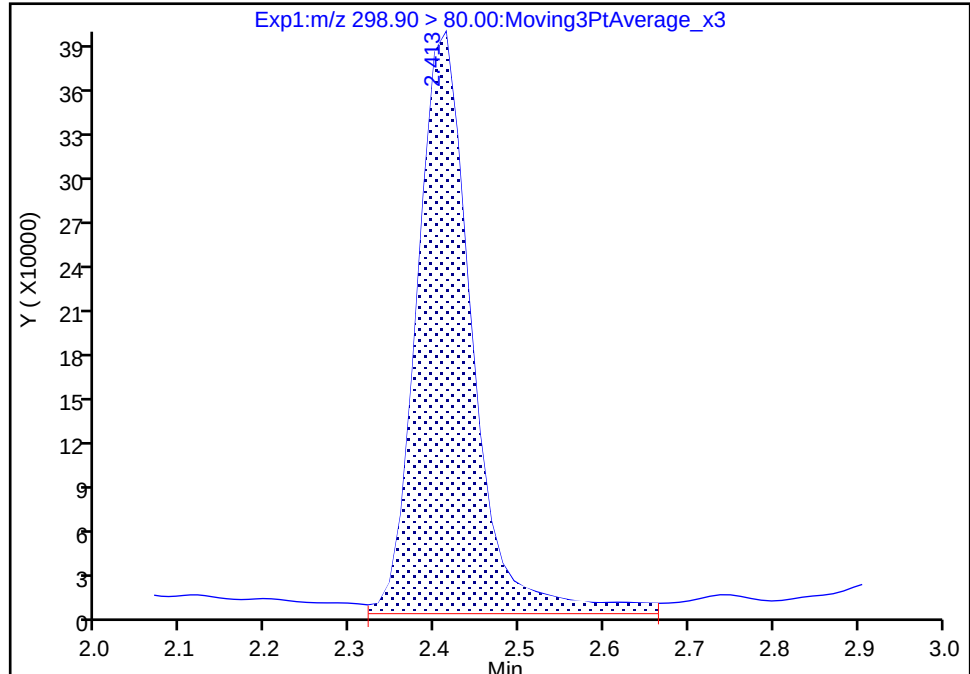
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

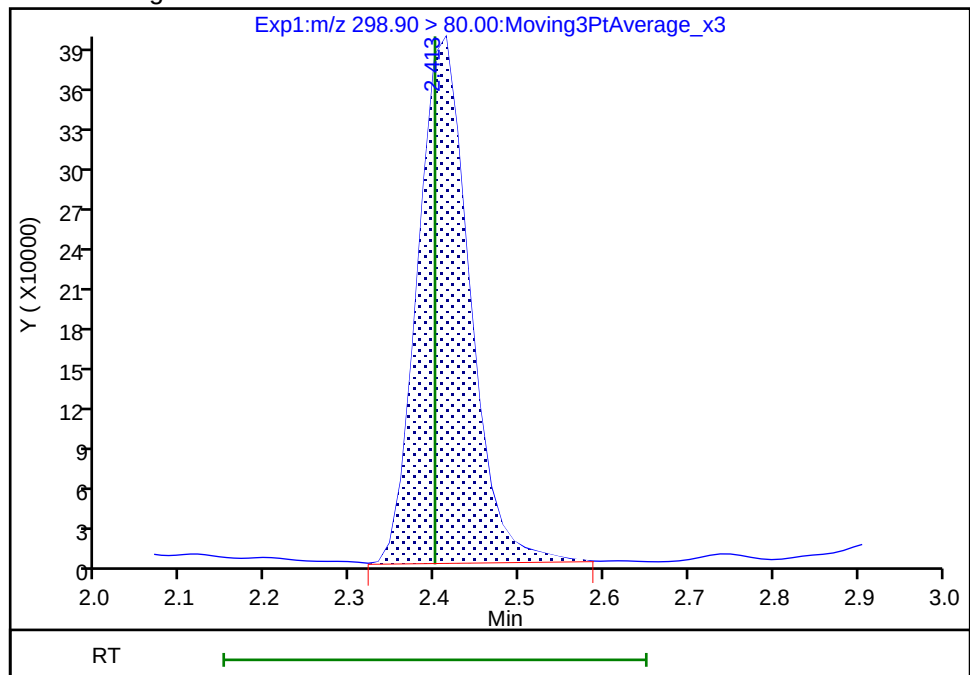
RT: 2.41
Area: 1778010
Amount: 0.938108
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1627274
Amount: 0.858577
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:38:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

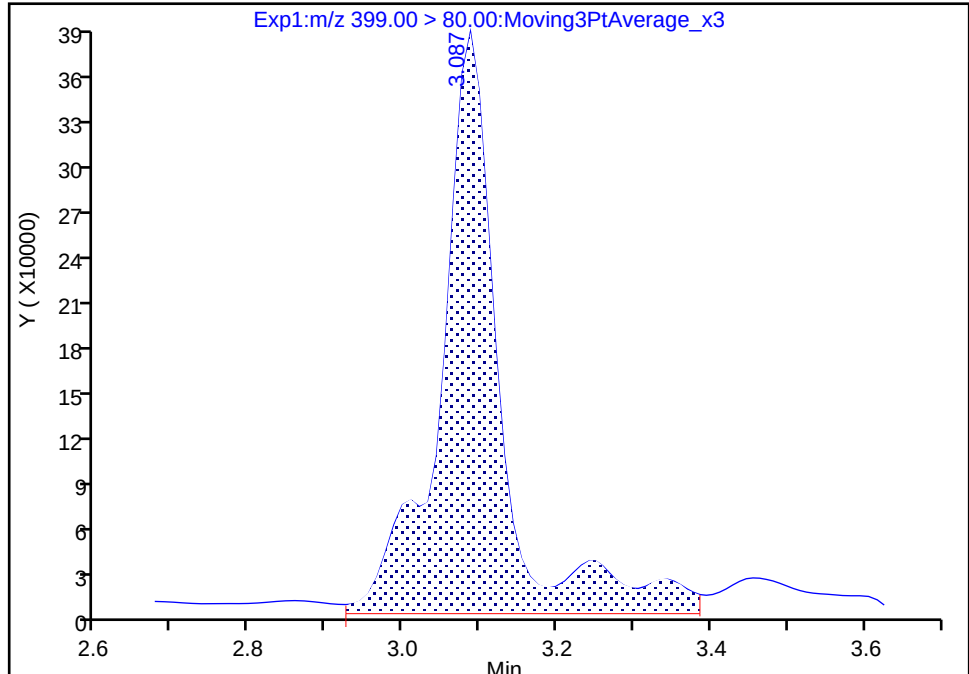
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

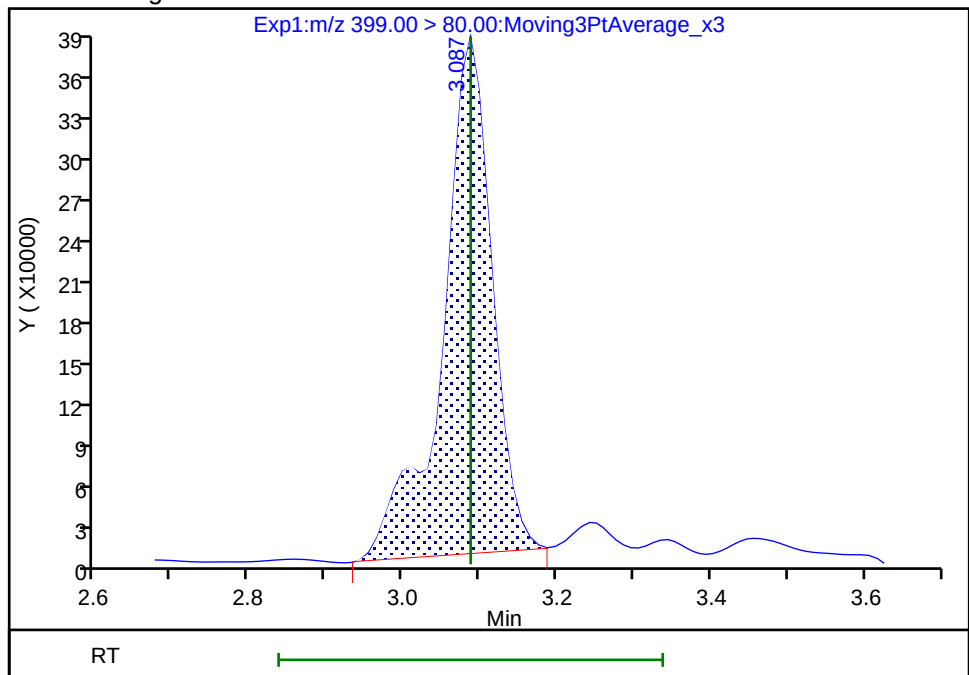
RT: 3.09
Area: 2122756
Amount: 1.571105
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1662278
Amount: 1.230293
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:38:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

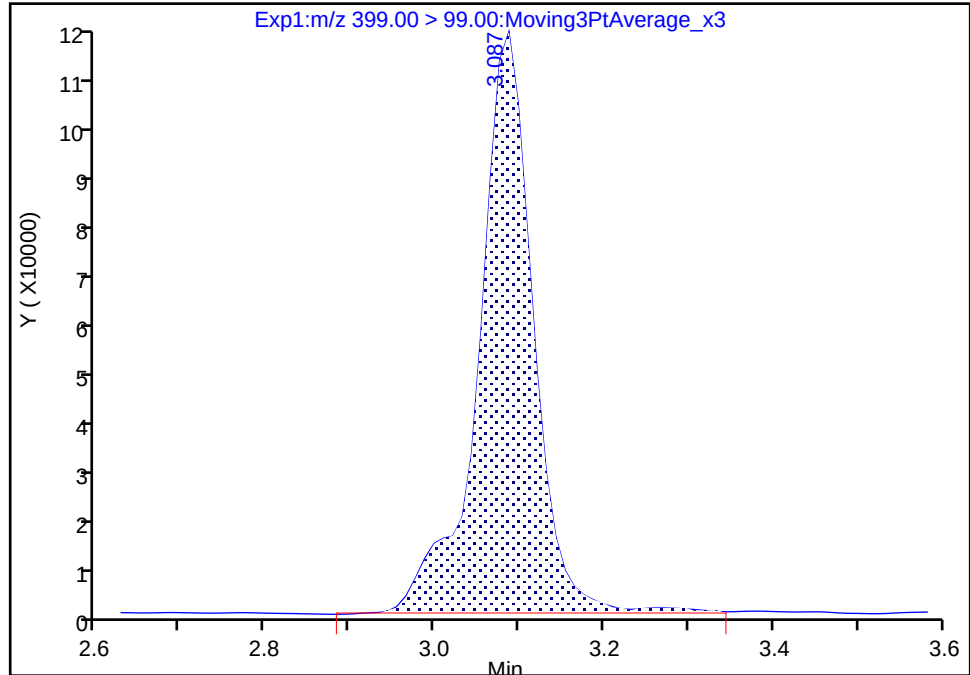
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

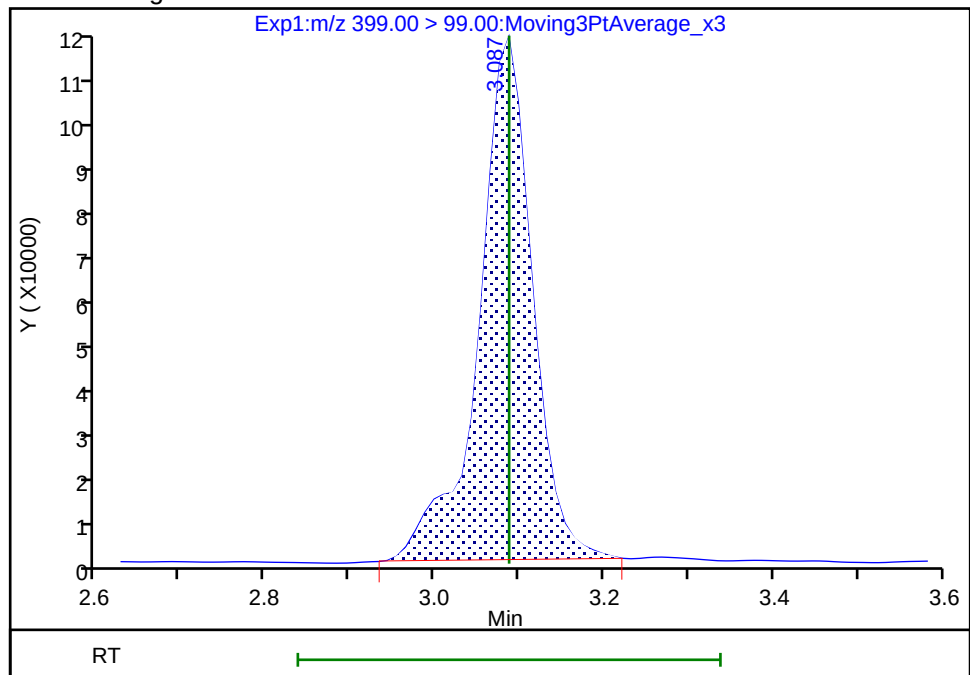
RT: 3.09
Area: 510376
Amount: 1.571105
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 497088
Amount: 1.230293
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:38:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

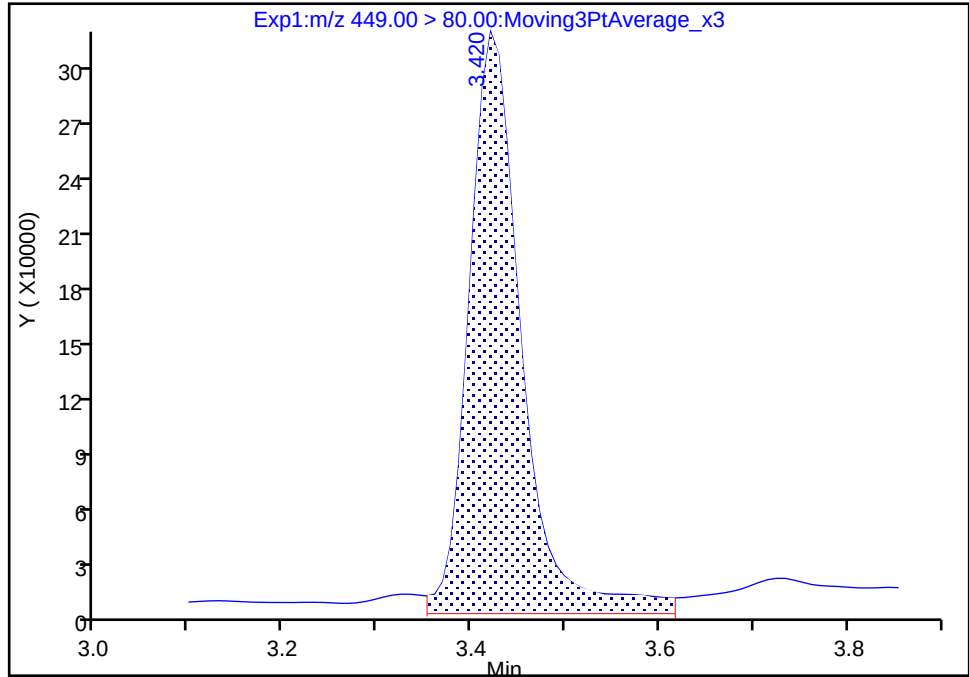
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

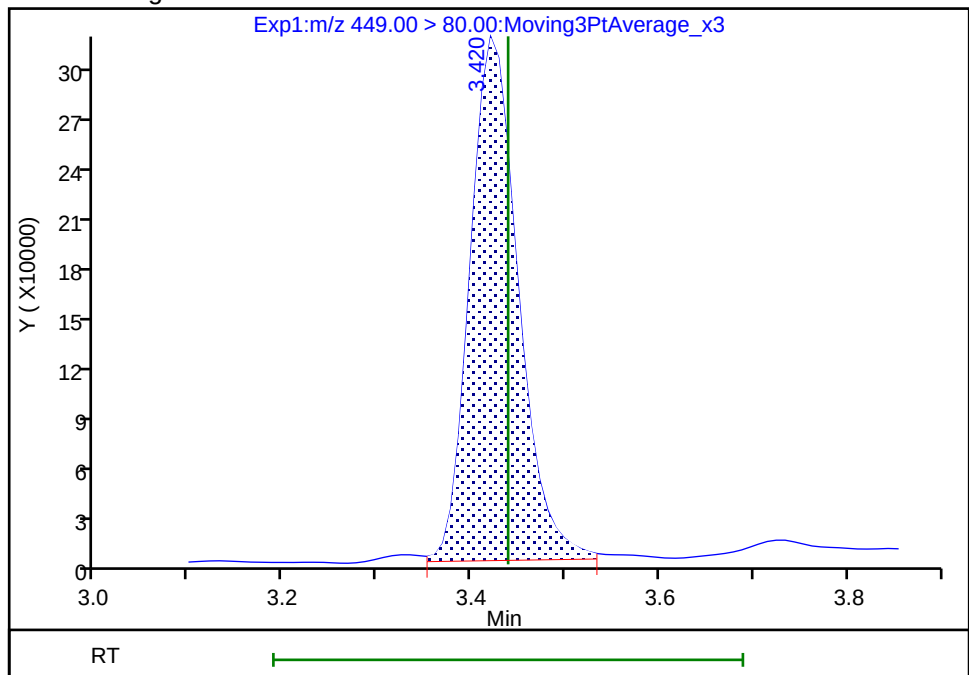
RT: 3.42
Area: 1250930
Amount: 1.172645
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 1116205
Amount: 1.046351
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:39:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

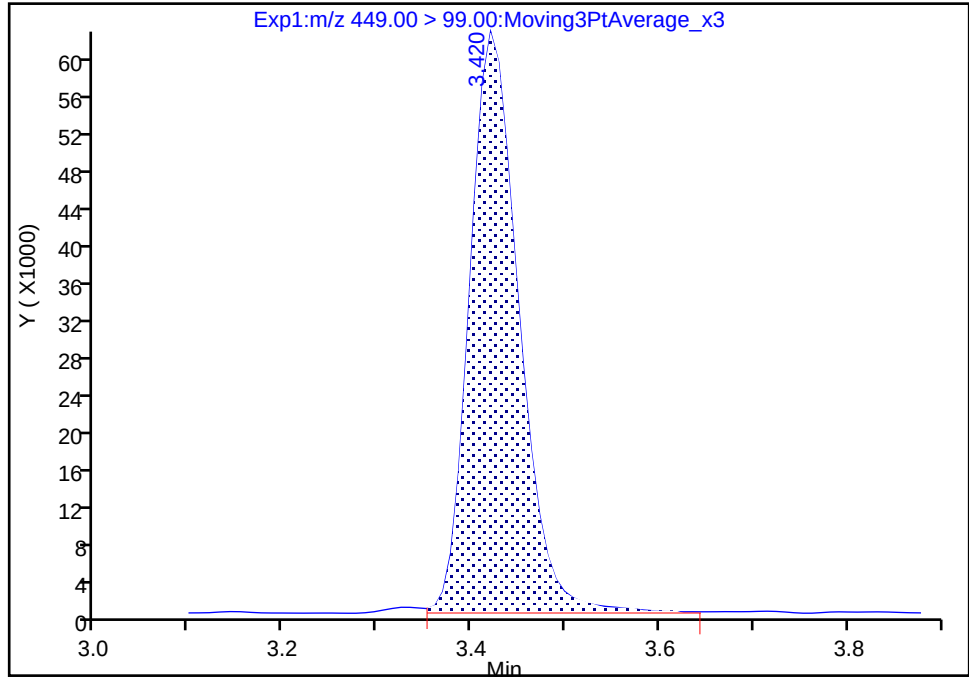
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

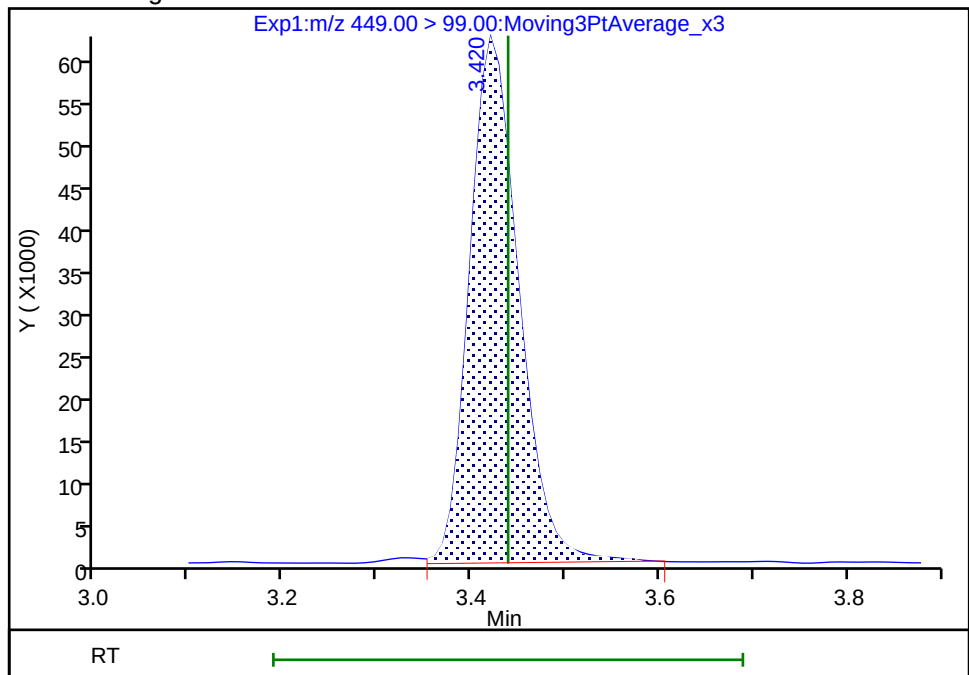
RT: 3.42
Area: 228366
Amount: 1.172645
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 225038
Amount: 1.046351
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:39:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

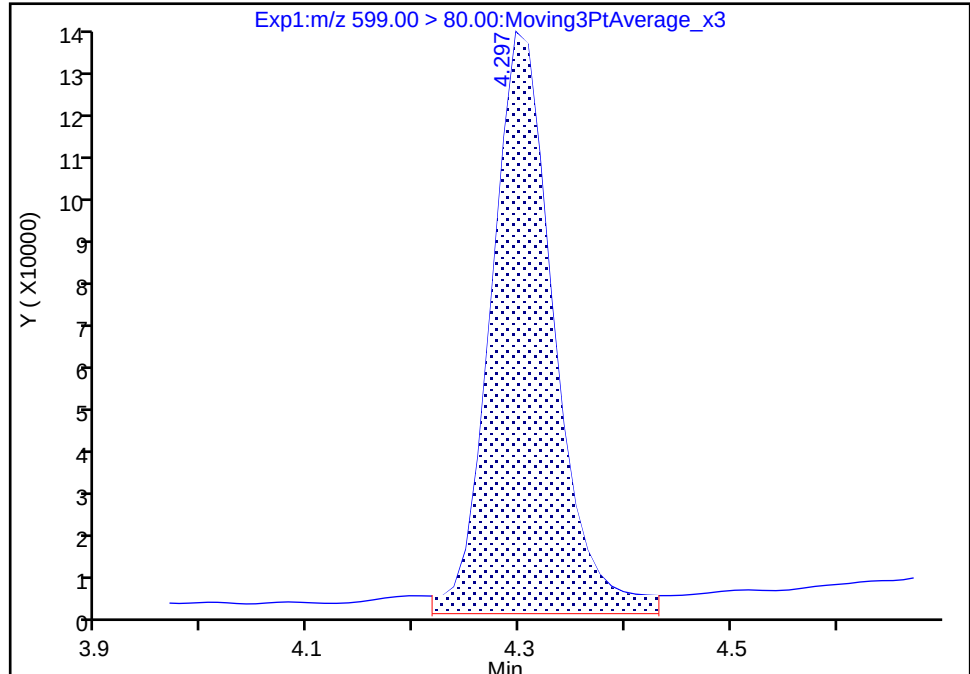
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

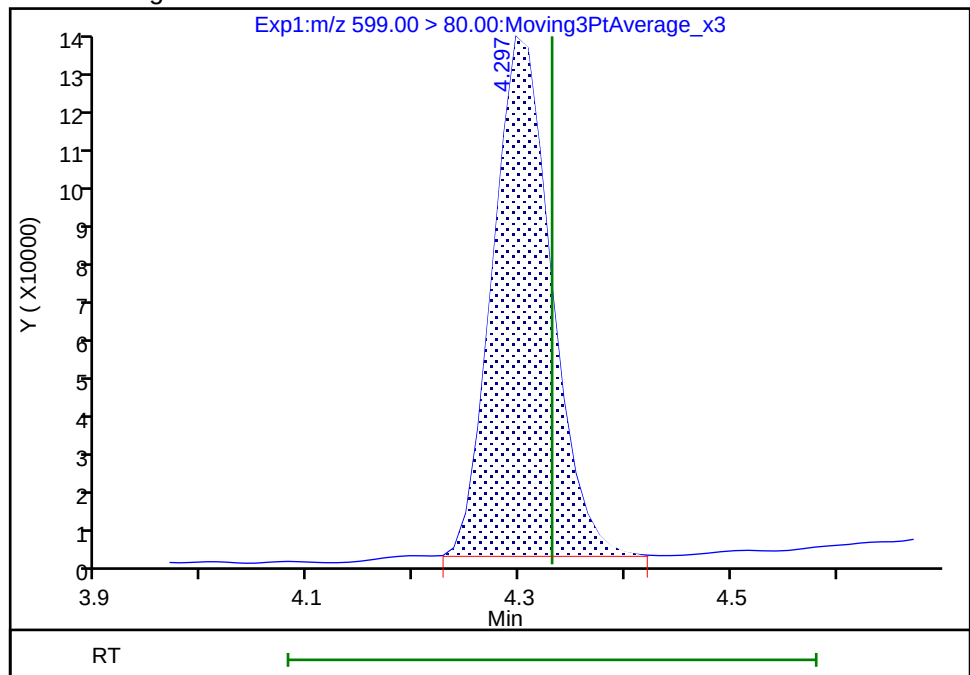
RT: 4.30
Area: 561820
Amount: 1.014941
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 504853
Amount: 0.912028
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins Burlington

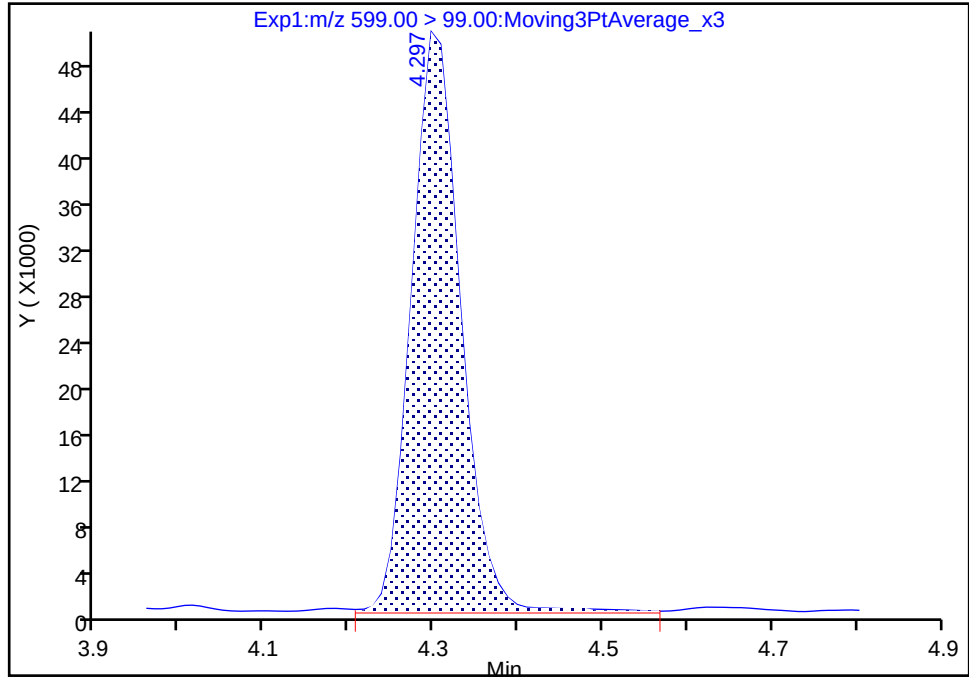
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

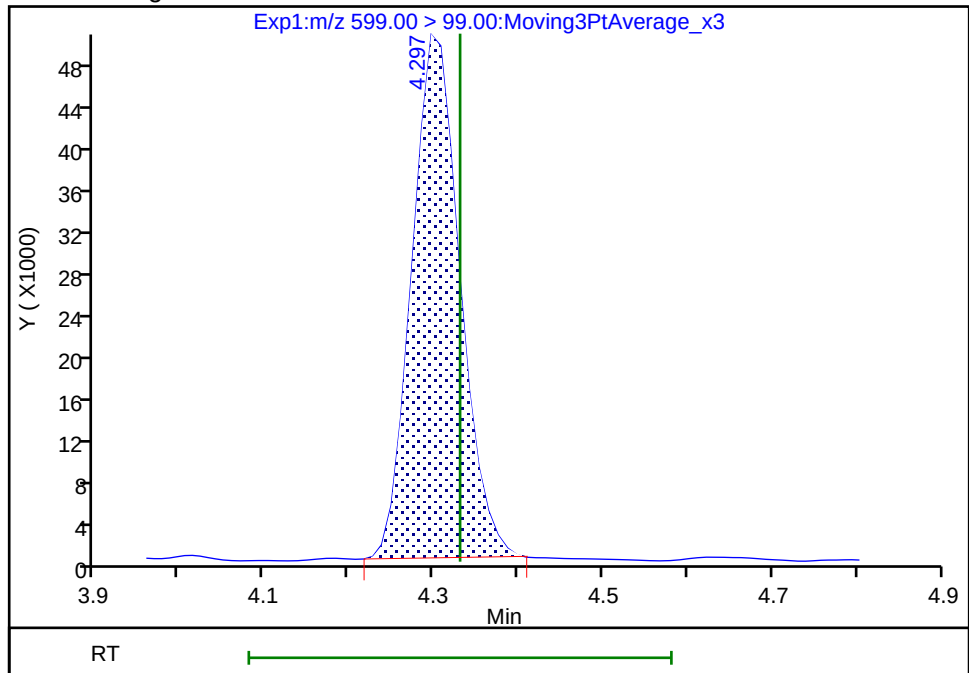
RT: 4.30
Area: 208292
Amount: 1.014941
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 197730
Amount: 0.912028
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

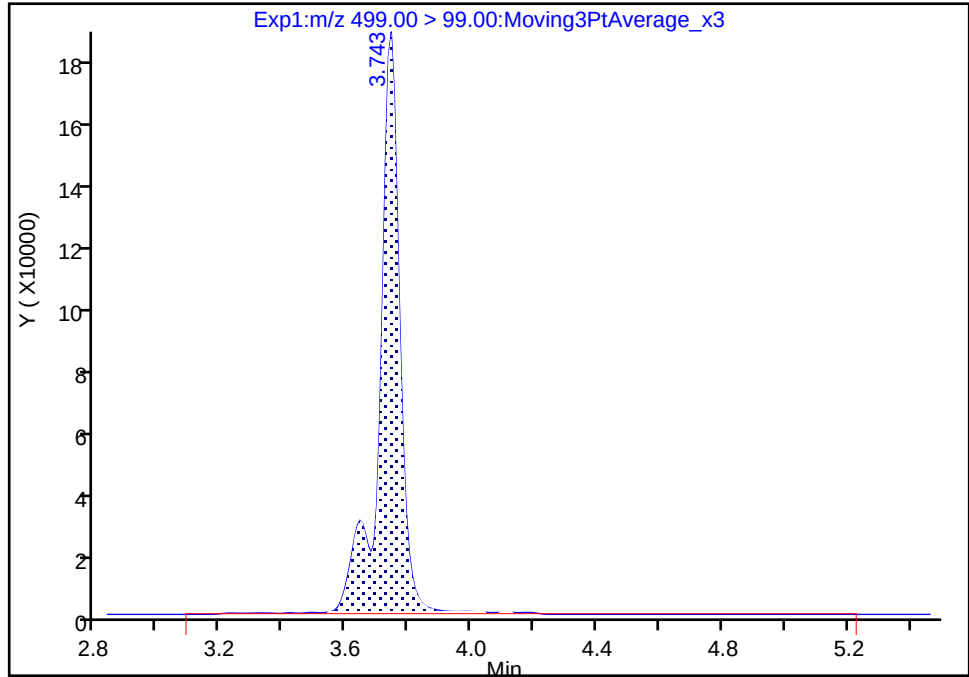
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

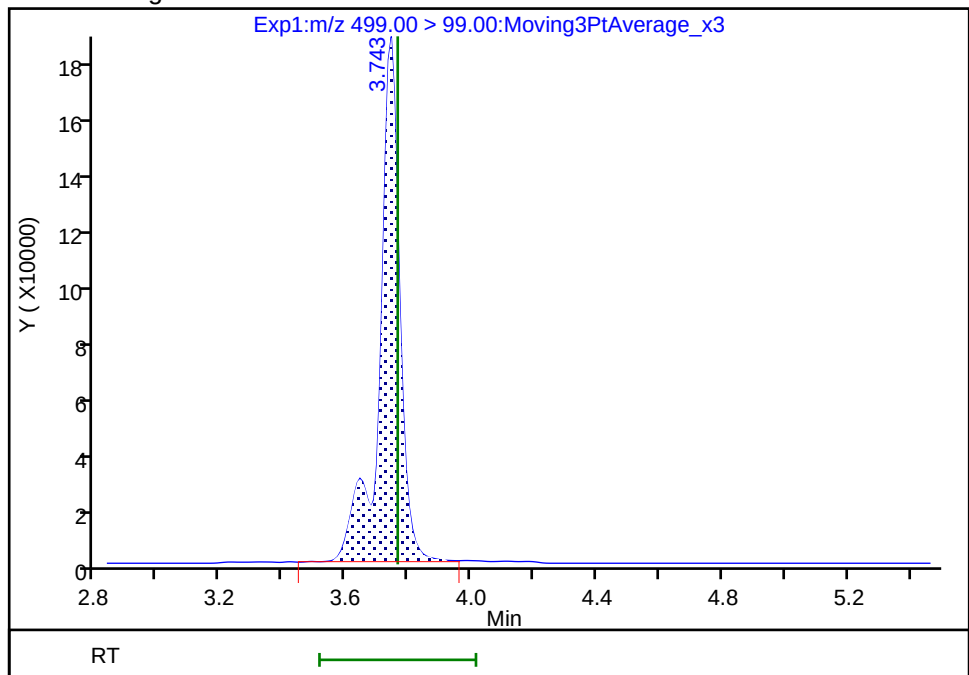
RT: 3.74
Area: 870568
Amount: 4.302108
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 833771
Amount: 3.810404
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:47:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

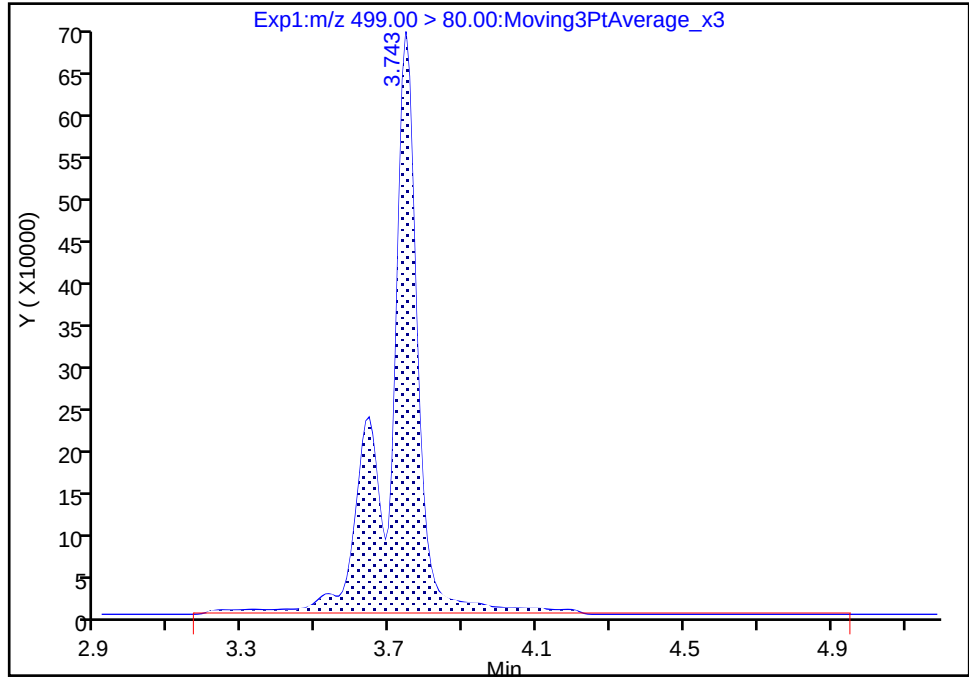
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

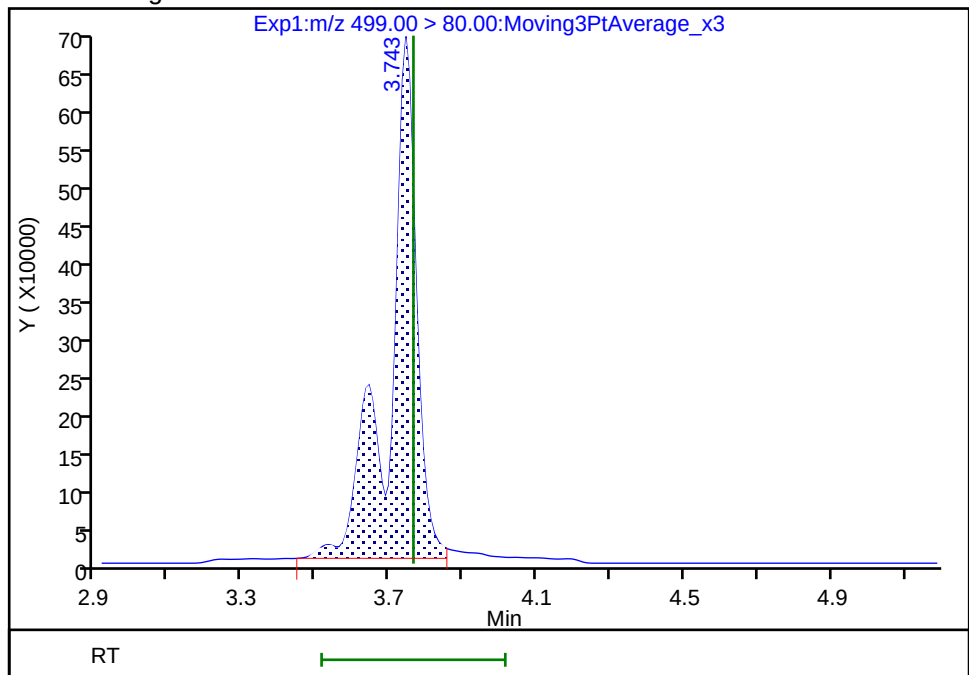
RT: 3.74
Area: 3995970
Amount: 4.302108
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 3539256
Amount: 3.810404
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 06-Jan-2023 09:47:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Burlington

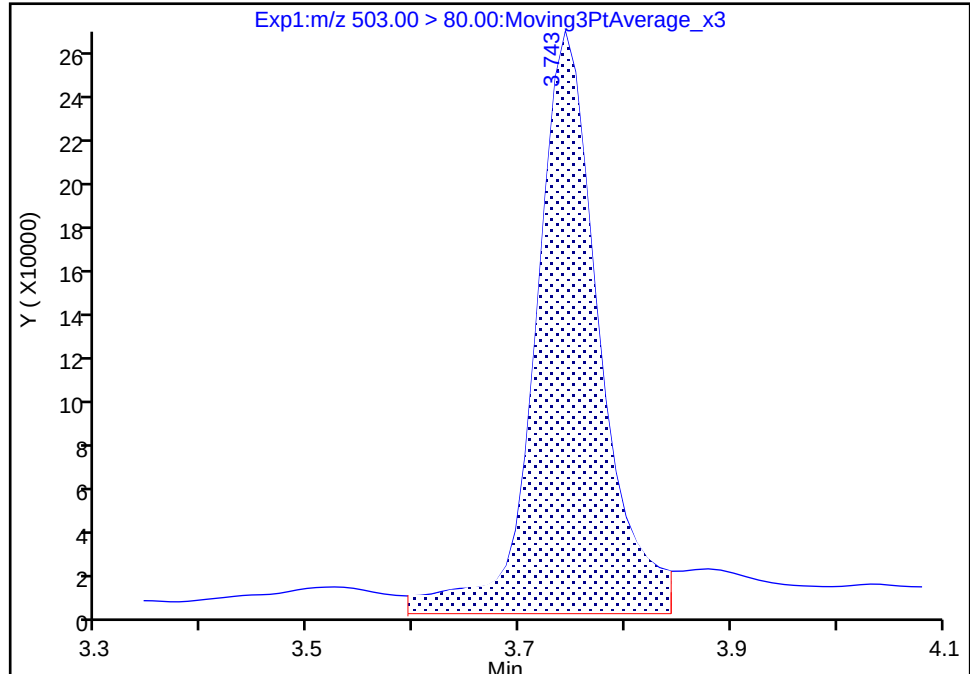
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

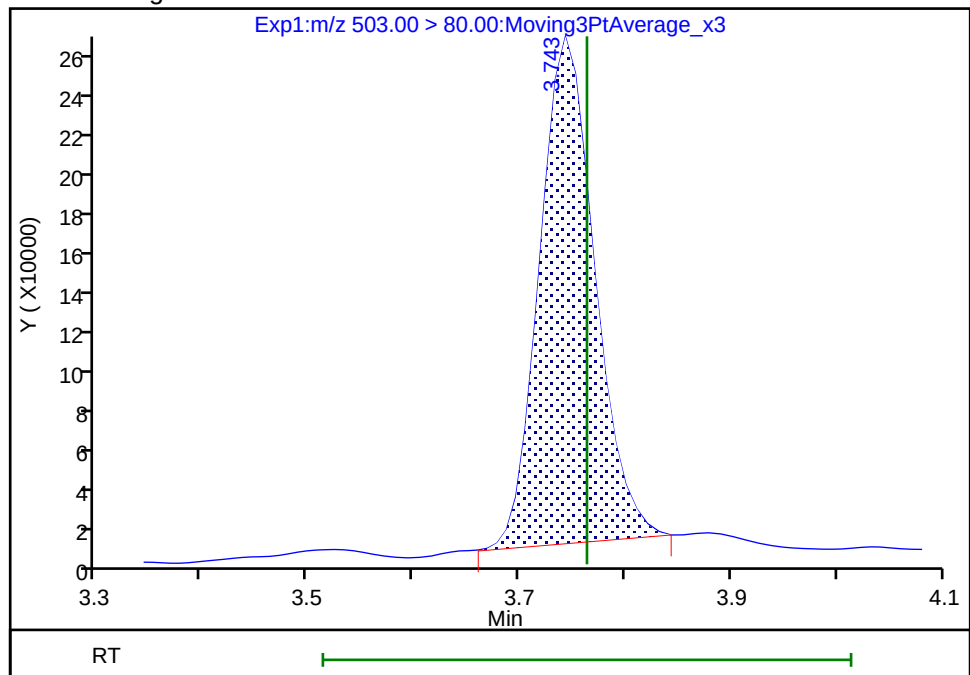
RT: 3.74
Area: 1128452
Amount: 1.073768
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 912694
Amount: 0.868466
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:37:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

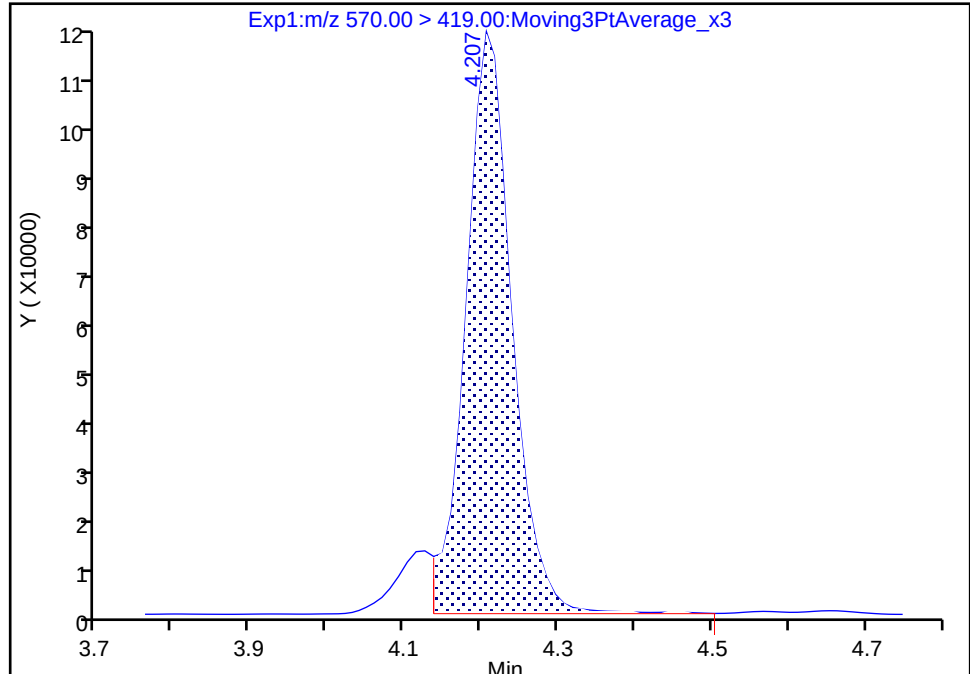
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

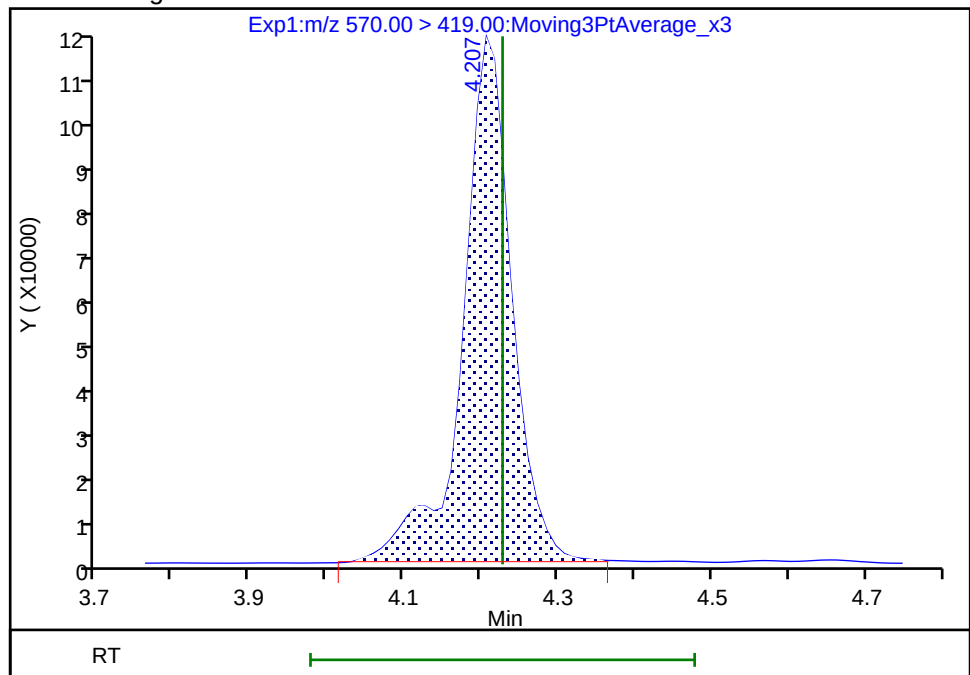
RT: 4.21
Area: 498313
Amount: 1.001997
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 529963
Amount: 1.066377
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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PM

Eurofins Burlington

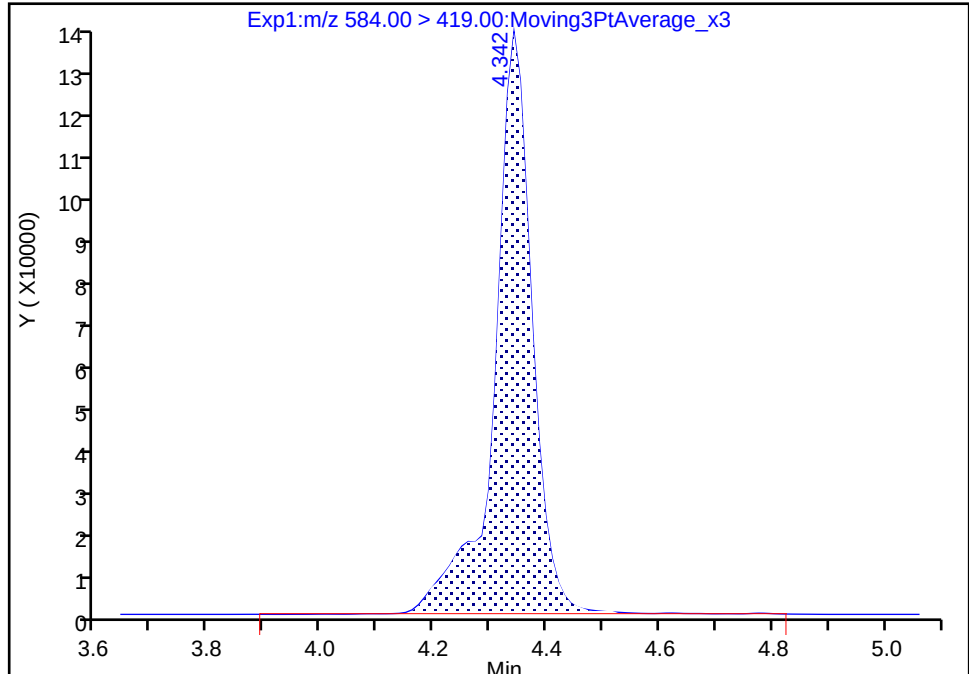
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

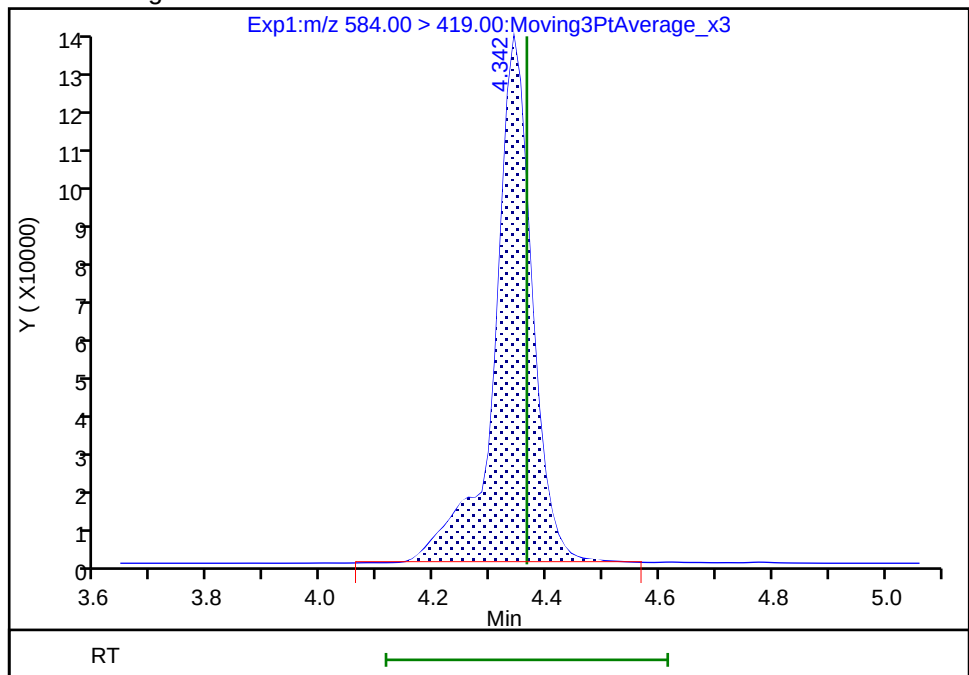
RT: 4.34
Area: 631407
Amount: 1.173022
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 625578
Amount: 1.162193
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1273 of 1299

1/9/2023 1:38
PM

Eurofins Burlington

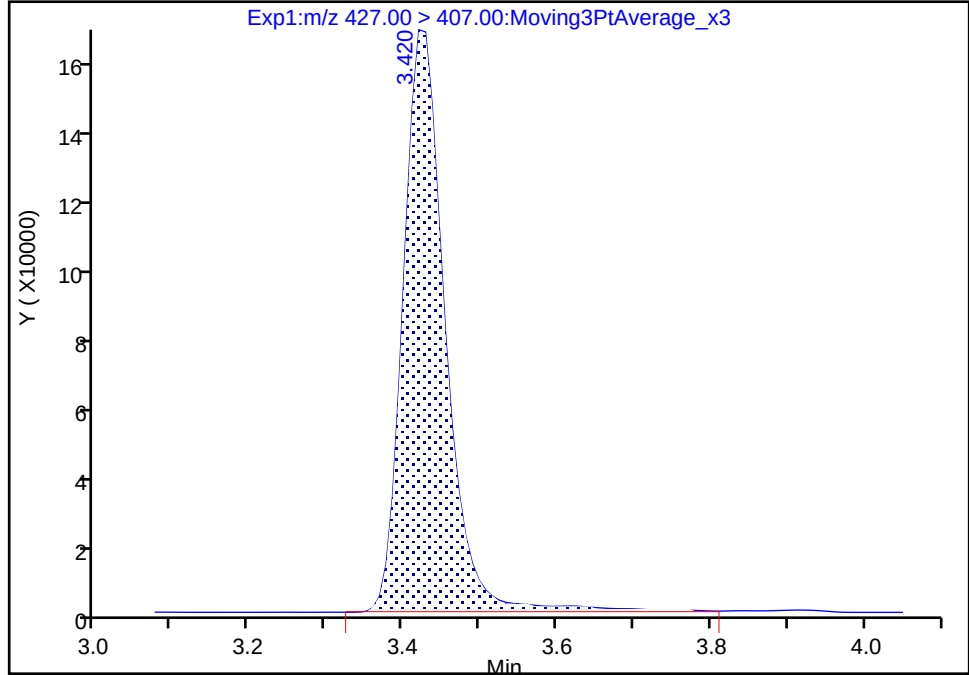
Data File: \\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d
Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 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

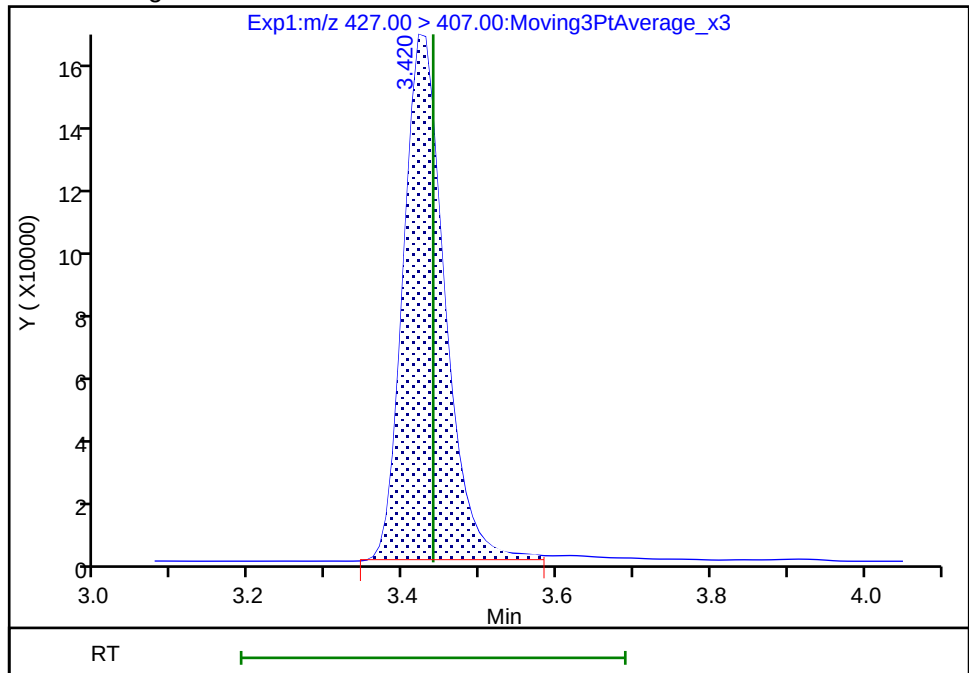
RT: 3.42
Area: 626803
Amount: 1.081365
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
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Amount: 1.050218
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:38:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

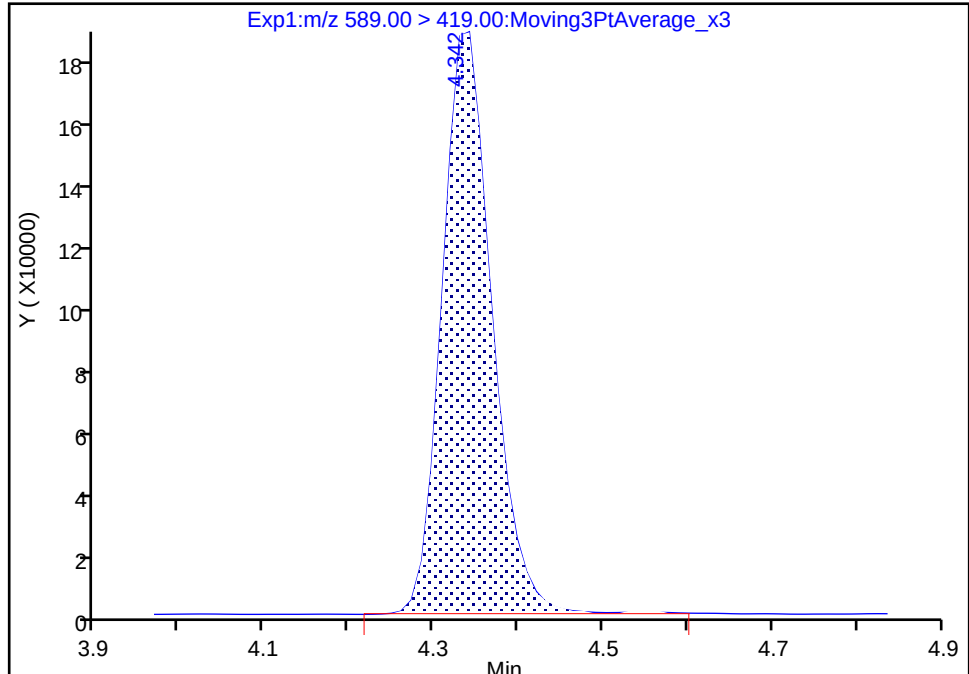
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

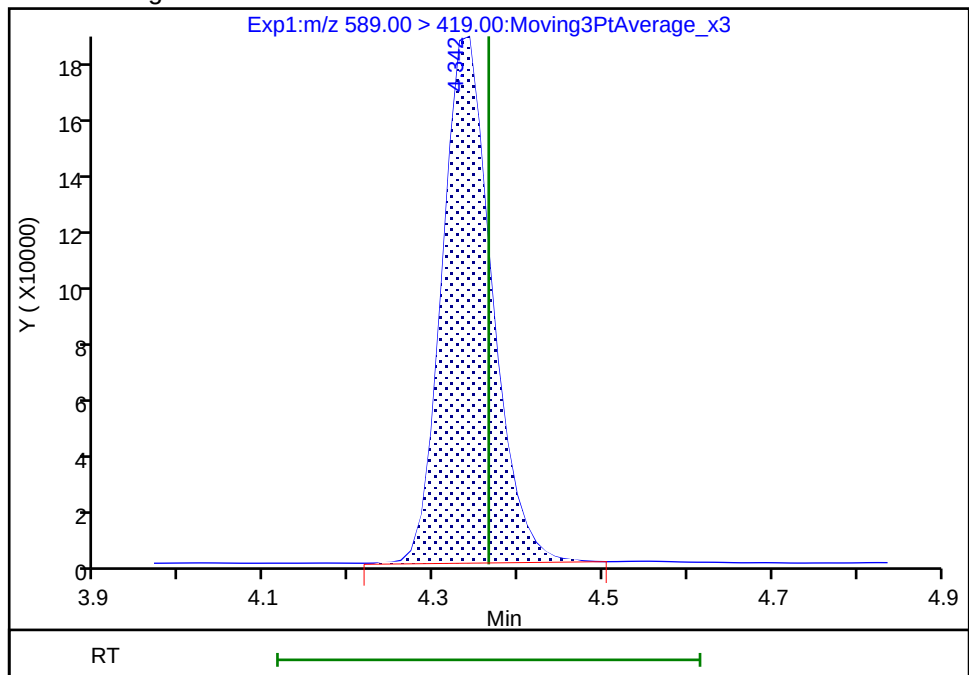
RT: 4.34
Area: 753104
Amount: 1.599934
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 751568
Amount: 1.596670
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:37:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

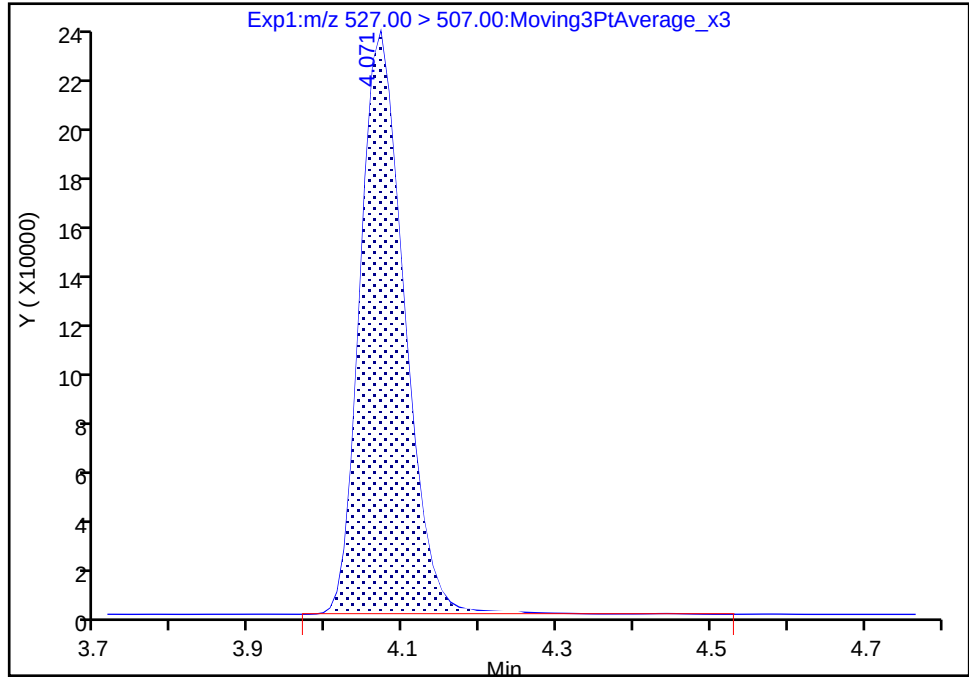
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

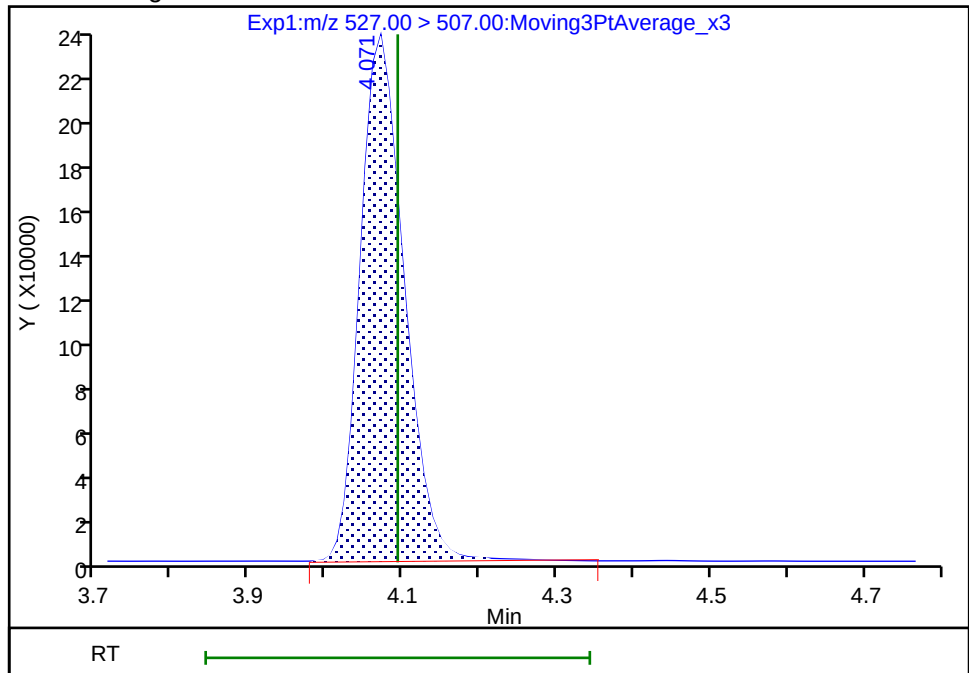
RT: 4.07
Area: 947408
Amount: 1.079752
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
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Amount: 1.075728
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:40:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

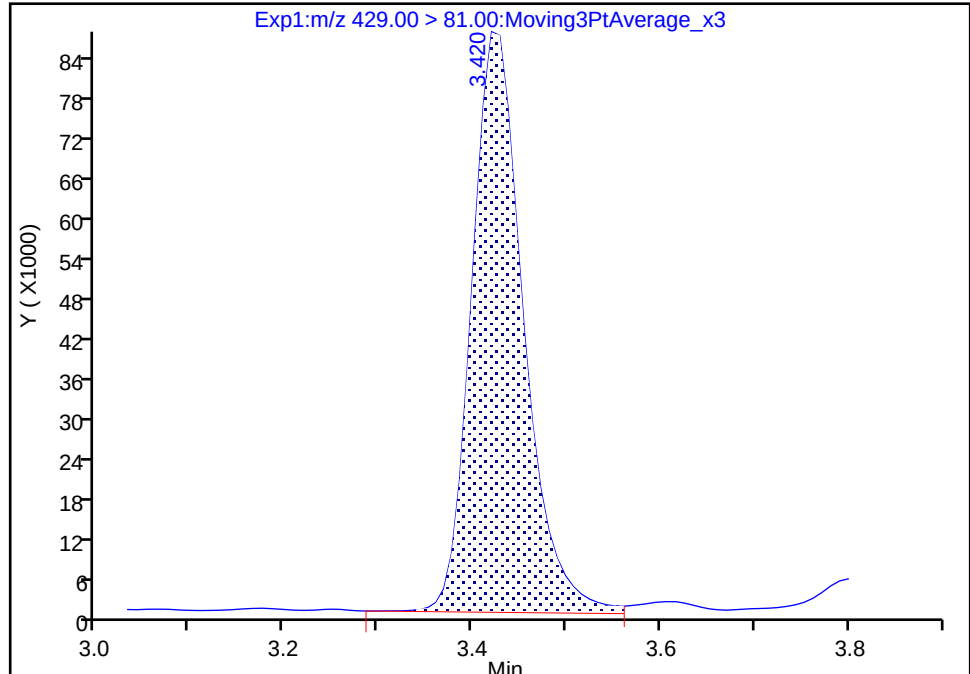
Data File:	\\chromfs\Burlington\ChromData\LC812\20230105-53906.b\PA230105A18.d		
Injection Date:	05-Jan-2023 17:08:24	Instrument ID:	LC812
Lims ID:	460-271803-A-3-C MSD		
Client ID:	SED-3		
Operator ID:	lc812tech	ALS Bottle#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	18

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

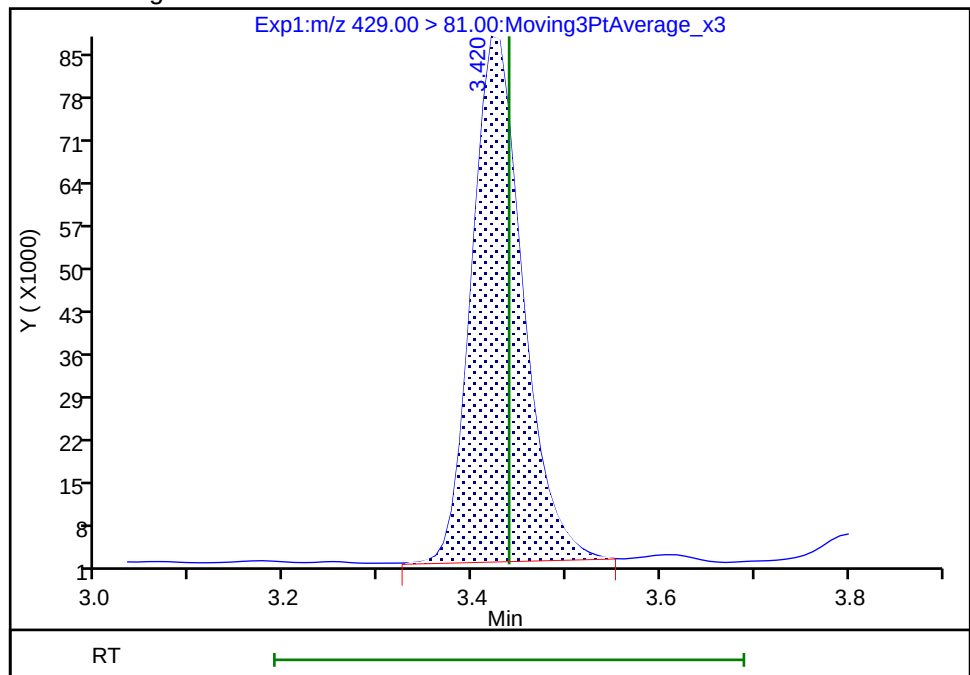
RT: 3.42
Area: 333403
Amount: 1.283675
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 322300
Amount: 1.240926
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:37:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

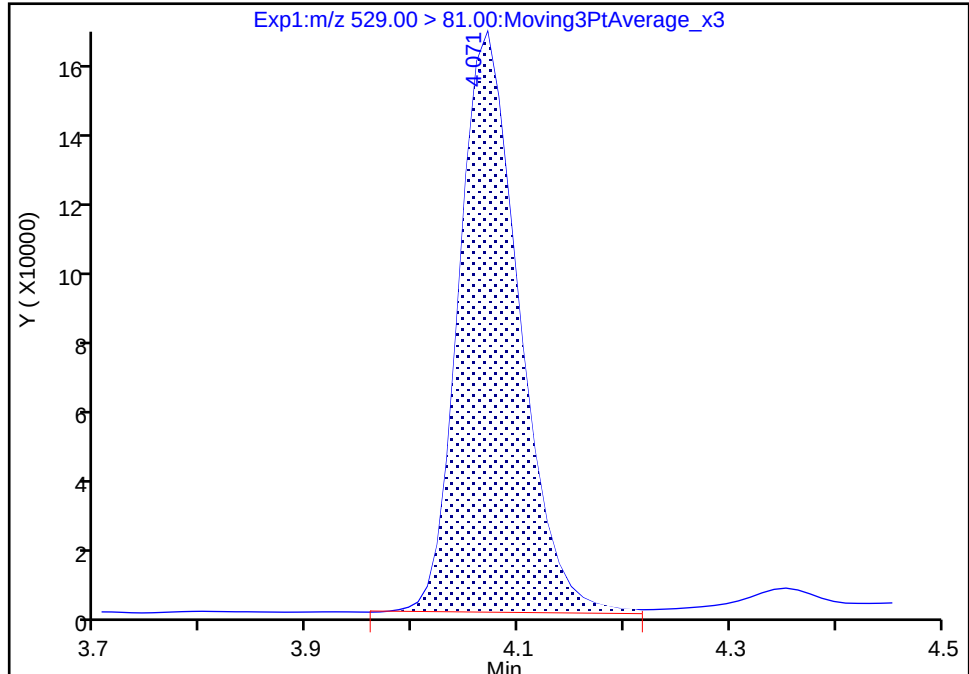
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Injection Date: 05-Jan-2023 17:08:24 Instrument ID: LC812
Lims ID: 460-271803-A-3-C MSD
Client ID: SED-3
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

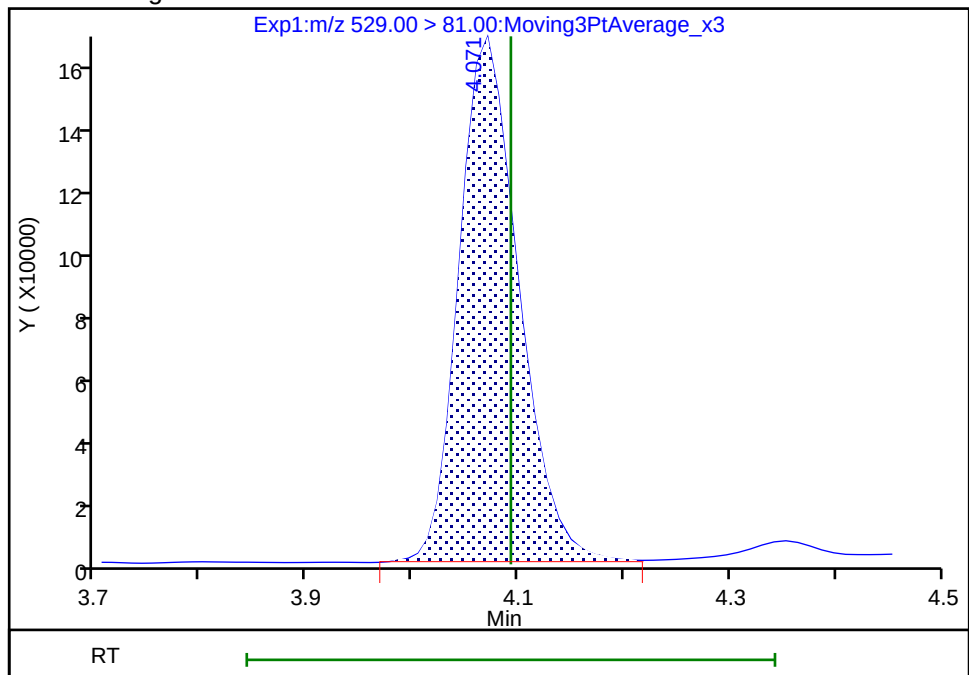
RT: 4.07
Area: 660382
Amount: 2.078791
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 649788
Amount: 2.045443
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 06-Jan-2023 13:37:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Instrument ID: LC812 Start Date: 11/18/2022 13:57
 Analysis Batch Number: 185958 End Date: 11/18/2022 15:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/18/2022 13:57	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:05	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:13	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:21	1		C-18 4.6 (mm)
IC 200-185958/5		11/18/2022 14:29	1	PA221118ICAL05. d	C-18 4.6 (mm)
IC 200-185958/6		11/18/2022 14:38	1	PA221118ICAL06. d	C-18 4.6 (mm)
IC 200-185958/7		11/18/2022 14:46	1	PA221118ICAL07. d	C-18 4.6 (mm)
ICISAV 200-185958/8		11/18/2022 14:54	1	PA221118ICAL08. d	C-18 4.6 (mm)
IC 200-185958/9		11/18/2022 15:02	1	PA221118ICAL09. d	C-18 4.6 (mm)
IC 200-185958/10		11/18/2022 15:10	1	PA221118ICAL10. d	C-18 4.6 (mm)
ICB 200-185958/11		11/18/2022 15:18	1	PA221118ICAL11. d	C-18 4.6 (mm)
ICV 200-185958/12		11/18/2022 15:27	1	PA221118ICAL12. d	C-18 4.6 (mm)
ZZZZZ		11/18/2022 15:35	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-271908-1
 SDG No.: _____
 Instrument ID: LC812 Start Date: 01/04/2023 14:45
 Analysis Batch Number: 187252 End Date: 01/04/2023 18:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/04/2023 14:45	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 14:53	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 15:01	1		C-18 4.6 (mm)
CCB 200-187252/4		01/04/2023 15:09	1	PA230104A04.d	C-18 4.6 (mm)
CCVLIS 200-187252/5		01/04/2023 15:18	1	PA230104A05.d	C-18 4.6 (mm)
ZZZZZ		01/04/2023 15:26	1		C-18 4.6 (mm)
CCV 200-187252/7		01/04/2023 15:34	1	PA230104A07.d	C-18 4.6 (mm)
MB 200-187194/1-A		01/04/2023 15:42	1	PA230104A08.d	C-18 4.6 (mm)
LCS 200-187194/2-A		01/04/2023 15:50	1	PA230104A09.d	C-18 4.6 (mm)
LCSD 200-187194/3-A		01/04/2023 15:59	1	PA230104A10.d	C-18 4.6 (mm)
ZZZZZ		01/04/2023 16:07	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 16:15	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 16:23	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 16:31	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 16:39	1		C-18 4.6 (mm)
460-271908-5	FB-09-12212022P	01/04/2023 16:48	1	PA230104A16.d	C-18 4.6 (mm)
ZZZZZ		01/04/2023 16:56	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 17:04	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 17:12	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 17:20	1		C-18 4.6 (mm)
CCV 200-187252/21		01/04/2023 17:28	1	PA230104A21.d	C-18 4.6 (mm)
ZZZZZ		01/04/2023 17:37	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 17:45	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 17:53	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 18:01	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 18:09	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 18:18	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 18:26	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 18:34	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 18:42	1		C-18 4.6 (mm)
ZZZZZ		01/04/2023 18:50	1		C-18 4.6 (mm)
CCV 200-187252/32		01/04/2023 18:58	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington

Job No.: 460-271908-1

SDG No.:

Instrument ID: LC812

Start Date: 01/05/2023 14:49

Analysis Batch Number: 187284

End Date: 01/05/2023 19:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/05/2023 14:49	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 14:57	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 15:05	1		C-18 4.6 (mm)
CCB 200-187284/4		01/05/2023 15:13	1	PA230105A04.d	C-18 4.6 (mm)
CCVLIS 200-187284/5		01/05/2023 15:22	1	PA230105A05.d	C-18 4.6 (mm)
ZZZZZ		01/05/2023 15:30	10		C-18 4.6 (mm)
ZZZZZ		01/05/2023 15:38	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 15:46	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 15:54	5		C-18 4.6 (mm)
CCV 200-187284/10		01/05/2023 16:03	1	PA230105A10.d	C-18 4.6 (mm)
MB 200-187189/1-A		01/05/2023 16:11	1	PA230105A11.d	C-18 4.6 (mm)
LCS 200-187189/2-A		01/05/2023 16:19	1	PA230105A12.d	C-18 4.6 (mm)
ZZZZZ		01/05/2023 16:27	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 16:35	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 16:43	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 16:52	1		C-18 4.6 (mm)
460-271803-A-3-B MS		01/05/2023 17:00	1	PA230105A17.d	C-18 4.6 (mm)
460-271803-A-3-C MSD		01/05/2023 17:08	1	PA230105A18.d	C-18 4.6 (mm)
ZZZZZ		01/05/2023 17:16	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 17:24	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 17:32	1		C-18 4.6 (mm)
CCV 200-187284/22		01/05/2023 17:41	1	PA230105A22.d	C-18 4.6 (mm)
460-271908-1	BCS-09-64_(12-12.5)P	01/05/2023 17:49	1	PA230105A23.d	C-18 4.6 (mm)
460-271908-2	BCS-09-65_(12-12.5)P	01/05/2023 17:57	1	PA230105A24.d	C-18 4.6 (mm)
460-271908-3	BCS-09-66_(12-12.5)P	01/05/2023 18:05	1	PA230105A25.d	C-18 4.6 (mm)
460-271908-4	BCS-09-67_(12-12.5)P	01/05/2023 18:13	1	PA230105A26.d	C-18 4.6 (mm)
ZZZZZ		01/05/2023 18:22	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 18:30	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 18:38	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 18:46	1		C-18 4.6 (mm)
ZZZZZ		01/05/2023 18:54	1		C-18 4.6 (mm)
CCV 200-187284/32		01/05/2023 19:02	1	PA230105A32.d	C-18 4.6 (mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Batch Number: 185958 Batch Start Date: 11/18/22 13:57 Batch Analyst: Dean, NathanBatch 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 200-185958/5		537 (modified)		1 mL			100 uL		
IC 200-185958/6		537 (modified)		1 mL				100 uL	
IC 200-185958/7		537 (modified)		1 mL					100 uL
ICISAV 200-185958/8		537 (modified)		1 mL					
IC 200-185958/9		537 (modified)		1 mL					
IC 200-185958/10		537 (modified)		1 mL					
ICB 200-185958/11		537 (modified)		1 mL		100 uL			
ICV 200-185958/12		537 (modified)		1 mL	100 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS32NCIC4 00036	PFAS32NCIC5 00030	PFAS32NCIC6 00013			
IC 200-185958/5		537 (modified)							
IC 200-185958/6		537 (modified)							
IC 200-185958/7		537 (modified)							
ICISAV 200-185958/8		537 (modified)		100 uL					
IC 200-185958/9		537 (modified)			100 uL				
IC 200-185958/10		537 (modified)				100 uL			
ICB 200-185958/11		537 (modified)							
ICV 200-185958/12		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)

Page 1 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Batch Number: 185958 Batch Start Date: 11/18/22 13:57 Batch Analyst: Dean, NathanBatch 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)

Page 2 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Batch Number: 187189 Batch Start Date: 01/03/23 09:24 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 01/04/23 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCPFC32MTXStk 00049	LCPFIDA21_spk 00010	PFAS21 IS Stk 00049	
MB 200-187189/1		SHAKE, 537 (modified)		5.00 g	10 mL		100 uL	100 uL	
LCS 200-187189/2		SHAKE, 537 (modified)		5.00 g	10 mL	25 uL	100 uL	100 uL	
460-271803-A-3 MS		SHAKE, 537 (modified)	T	5.21 g	10 mL	25 uL	100 uL	100 uL	
460-271803-A-3 MSD		SHAKE, 537 (modified)	T	5.27 g	10 mL	25 uL	100 uL	100 uL	
460-271908-A-1	BCS-09-64_(12-12 .5) P	SHAKE, 537 (modified)	T	5.08 g	10 mL		100 uL	100 uL	
460-271908-A-2	BCS-09-65_(12-12 .5) P	SHAKE, 537 (modified)	T	5.10 g	10 mL		100 uL	100 uL	
460-271908-A-3	BCS-09-66_(12-12 .5) P	SHAKE, 537 (modified)	T	5.02 g	10 mL		100 uL	100 uL	
460-271908-A-4	BCS-09-67_(12-12 .5) P	SHAKE, 537 (modified)	T	5.05 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)

Page 1 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Batch Number: 187189 Batch Start Date: 01/03/23 09:24 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 01/04/23 16:00

Batch Notes	
Balance ID	M02926
Blank Sand Lot #	1535274
Millipore Water Dispense Date	11/29/2022
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	NDD
Internal Standard ID	1677806
Analyst ID - Aliquot Step	KFW
Analyst ID - Final Volume Step	KFW
Sonication Start Time	01/03/2023 10:15
Sonication Stop Time	01/03/2023 13:15
Centrifuge Tube ID	430791
QC Bottle Lot ID	0317201H
Batch Comment	IDA:E MTX:B IS:C

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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Batch Number: 187194 Batch Start Date: 01/03/23 10:54 Batch Analyst: Wisniewski, Kurtis FBatch Method: 3535 Batch End Date: 01/04/23 09:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCPFC32MTXStk 00049	LCPFIDA21_spk 00010
MB 200-187194/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL		100 uL
LCS 200-187194/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
LCS 200-187194/3		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
460-271908-B-5	FB-09-12212022P	3535, 537 (modified)	T	316.36 g	27.42 g	288.9 mL	10 mL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00049					
MB 200-187194/1		3535, 537 (modified)		100 uL					
LCS 200-187194/2		3535, 537 (modified)		100 uL					
LCS 200-187194/3		3535, 537 (modified)		100 uL					
460-271908-B-5	FB-09-12212022P	3535, 537 (modified)	T	100 uL					

Batch Notes	
SPE Cartridge Type	Phenomenex Strata PFAS (Wax/GCB), 500mg/50mg/6mL
SPE Cartridge Lot ID	Sorbent Lot: X1117-3H/1256 Prod Lot: E02773-1
Balance ID	M02926
Manifold ID	IDA 1,2
Pipette/Syringe/Dispenser ID	QH77727
Solvent Name	Methanol (0.3% NH4OH)
Solvent Lot #	1692159
Rinse Solvent Name	NaOH/H2O
Rinse Solvent Lot	1687227
Analyst ID - Spike Analyst	KFW
Analyst ID - Spike Witness Analyst	NDD
Batch Comment	30% MeOH ID: 1687233 IDA:A MTX:D IS:E

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)

Page 1 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Batch Number: 187194 Batch Start Date: 01/03/23 10:54 Batch Analyst: Wisniewski, Kurtis FBatch Method: 3535 Batch End Date: 01/04/23 09:45

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: 460-271908-1

SDG No.: _____

Project: Inwood - Lot 9

Client Sample ID	Lab Sample ID
<u>BCS-09-64_(12-12.5)P</u>	<u>460-271908-1</u>
<u>BCS-09-65_(12-12.5)P</u>	<u>460-271908-2</u>
<u>BCS-09-66_(12-12.5)P</u>	<u>460-271908-3</u>
<u>BCS-09-67_(12-12.5)P</u>	<u>460-271908-4</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job Number: 460-271908-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 04/01/2009 07:55

Analyte	Wavelength/ Mass	RL (%)	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 01/03/2023 14:19 End Date: 01/03/2023 14:19

Lab Sample ID	D / F	T y p e	Time	Analytes															
				% S o l															
ZZZZZZ			14:19																
460-271908-1	1	T	14:19	X															
460-271908-2	1	T	14:19	X															
460-271908-3	1	T	14:19	X															
460-271908-4	1	T	14:19	X															
ZZZZZZ			14:19																
460-272141-A-1 DU	1	T	14:19	X															
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																
ZZZZZZ			14:19																

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 460-271908-1

Batch: 187217
Method: Moisture

Analyst Initials: RWM
Instrument: No Equipment

Lab Sample ID: 460-271908-A-1

Analysis Date: Jan 03, 2023 14:19

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	72.0198675496689	%

Lab Sample ID: 460-271908-A-2

Analysis Date: Jan 03, 2023 14:19

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	75.3101736972705	%

Lab Sample ID: 460-271908-A-3

Analysis Date: Jan 03, 2023 14:19

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	73.1121281464531	%

Lab Sample ID: 460-271908-A-4

Analysis Date: Jan 03, 2023 14:19

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	73.6914600550964	%

Lab Sample ID: 460-272141-A-1 DU

Analysis Date: Jan 03, 2023 14:19

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	81.2428078250863	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271908-1

SDG No.: _____

Batch Number: 187217 Batch Start Date: 01/03/23 14:19 Batch Analyst: McNabb, Robert WBatch Method: Moisture Batch End Date: 01/04/23 12:09

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
460-271908-A-1	BCS-09-64_(12-12.5)P	Moisture	T	0.99 g	7.03 g	5.34 g	27.980132450331 1 %	72.019867549668 9 %	
460-271908-A-2	BCS-09-65_(12-12.5)P	Moisture	T	0.98 g	9.04 g	7.05 g	24.689826302729 5 %	75.310173697270 5 %	
460-271908-A-3	BCS-09-66_(12-12.5)P	Moisture	T	1.01 g	9.75 g	7.40 g	26.887871853546 9 %	73.112128146453 1 %	
460-271908-A-4	BCS-09-67_(12-12.5)P	Moisture	T	1.00 g	8.26 g	6.35 g	26.308539944903 6 %	73.691460055096 4 %	
460-272141-A-1 DU		Moisture	T	0.99 g	9.68 g	8.05 g	18.757192174913 7 %	81.242807825086 3 %	

Batch Notes	
Balance ID	L92017
Oven ID	WC OVEN #2
Thermometer ID	328 (CF=-1)
Date samples were placed in the oven	01/03/2023
Time samples were place in the oven	14:19
Temperature - Start - Uncorrected	109 Degrees C
Oven Temp In	108 Degrees C
Date samples were removed from oven	01/04/2023
Time Samples were removed from oven	12:09
Temperature - End - Uncorrected	109 Degrees C
Oven Temp Out	108 Degrees C
Date and Time Samples in Desiccator	01/04/2023 11:42
Date and Time Samples out of Desiccator	01/04/2023 11:57

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

Page 1 of 1

Subcontract Data

Shipping and Receiving Documents

TAL-8210

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:		Project Manager: <u>John Sebastian</u>		Site Contact: <u>J. Rusk</u>		Date: <u>12/21/22</u>		COC No.:	
Company Name: <u>Rox Associates</u>		Tel/Email: <u>209 Shafter St</u>		Lab Contact: <u>M. Hanks</u>		Carrier:		Sampler: <u>J. Rusk</u>	
Address: <u>Belmont, VT 05749</u>		City/State/Zip:		Analysis Turnaround Time		For Lab Use Only:		Walk-in Client:	
Phone:		Fax:		☐ CALENDAR DAYS ☐ WORKING DAYS		Lab Sampling:		Job / SDG No.: <u>271908</u>	
Project Name: <u>Belmont Town LT</u>		P.O. # <u>24770008P002</u>		TAT if different from Below		Barcode:		Sample Specific Notes:	
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		
BCS-09-64-(12-12.5)P		12/21	1305	G	S	1	Perform MS/MSD (Y/N)		
BCS-09-65-(12-12.5)P		12/21	1315	G	S	1	XXXX		
BCS-09-66-(12-12.5)P		12/21	1325	G	S	1	XXXX		
BCS-09-67-(12-12.5)P		12/21	1335	G	S	1	XXXX		
FB-09-12212022P		12/21	1345	FB	W	2			
SUB WORK									
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: 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:									
Client Contact		Project Manager: <u>John Sebastian</u>		Site Contact: <u>J. Rusk</u>		Date: <u>12/21/22</u>		COC No.:	
Company Name: <u>Rox Associates</u>		Tel/Email: <u>209 Shafter St</u>		Lab Contact: <u>M. Hanks</u>		Carrier:		Sampler: <u>J. Rusk</u>	
Address: <u>Belmont, VT 05749</u>		City/State/Zip:		Analysis Turnaround Time		For Lab Use Only:		Walk-in Client:	
Phone:		Fax:		☐ CALENDAR DAYS ☐ WORKING DAYS		Lab Sampling:		Job / SDG No.: <u>271908</u>	
Project Name: <u>Belmont Town LT</u>		P.O. # <u>24770008P002</u>		TAT if different from Below		Barcode:		Sample Specific Notes:	
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		
BCS-09-64-(12-12.5)P		12/21	1305	G	S	1	Perform MS/MSD (Y/N)		
BCS-09-65-(12-12.5)P		12/21	1315	G	S	1	XXXX		
BCS-09-66-(12-12.5)P		12/21	1325	G	S	1	XXXX		
BCS-09-67-(12-12.5)P		12/21	1335	G	S	1	XXXX		
FB-09-12212022P		12/21	1345	FB	W	2			
SUB WORK									
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: 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:									
Client Contact		Project Manager: <u>John Sebastian</u>		Site Contact: <u>J. Rusk</u>		Date: <u>12/21/22</u>		COC No.:	
Company Name: <u>Rox Associates</u>		Tel/Email: <u>209 Shafter St</u>		Lab Contact: <u>M. Hanks</u>		Carrier:		Sampler: <u>J. Rusk</u>	
Address: <u>Belmont, VT 05749</u>		City/State/Zip:		Analysis Turnaround Time		For Lab Use Only:		Walk-in Client:	
Phone:		Fax:		☐ CALENDAR DAYS ☐ WORKING DAYS		Lab Sampling:		Job / SDG No.: <u>271908</u>	
Project Name: <u>Belmont Town LT</u>		P.O. # <u>24770008P002</u>		TAT if different from Below		Barcode:		Sample Specific Notes:	
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		
BCS-09-64-(12-12.5)P		12/21	1305	G	S	1	Perform MS/MSD (Y/N)		
BCS-09-65-(12-12.5)P		12/21	1315	G					

271908

IR Gun #

Cooler Temperatures

	RAW	CORRECTED
Cooler #1:	7.6	7.6
Cooler #2:	7.6	7.6
Cooler #3:	7.6	7.6
Cooler #4:	7.6	7.6
Cooler #5:	7.6	7.6
Cooler #6:	7.6	7.6
Cooler #7:	7.6	7.6
Cooler #8:	7.6	7.6
Cooler #9:	7.6	7.6

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

- **Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.**

EDS-WI-038, Rev 4.1
10/22/2019

Initials:

Date: 12/2/22

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-271908-1

Login Number: 271908

List Source: Eurofins Edison

List Number: 1

Creator: Thundathorn, Sukanan 1

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.	False	Refer to Job Narrative for details.
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: 460-271908-1

Login Number: 271908
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins Burlington
List Creation: 12/30/22 04:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	1969030, 031, 032
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	2.1°C, 2.2°C, 2.7°C
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	Received project as a subcontract.
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.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	