

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

Attn: Jessica Taylor
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JOB DESCRIPTION

Inwood - Lot 9

JOB NUMBER

460-273105-1

Eurofins Edison

Job Notes

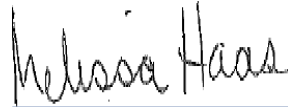
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Authorization



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Table of Contents

Cover Title Page	1
Data Summaries	5
Report Narrative	5
Sample Summary	6
Detection Summary	7
Method Summary	8
Client Sample Results	9
Isotope Dilution Summary	15
QC Sample Results	17
Definitions	25
QC Association	26
Chronicle	27
Certification Summary	29
Organic Sample Data	30
LCMS	30
Method PFC IDA	30
Method PFC IDA QC Summary	31
Method PFC IDA Sample Data	52
Standards Data	234
Method PFC IDA ICAL Data	234
Method PFC IDA CCAL Data	405
Raw QC Data	657
Method PFC IDA Blank Data	657
Method PFC IDA LCS/LCSD Data	804
Method PFC IDA MS/MSD Data	882
Method PFC IDA Run Logs	922

Table of Contents

Method PFC IDA Prep Data	926
Inorganic Sample Data	933
General Chemistry Data	933
Gen Chem Cover Page	934
Gen Chem MDL	935
Gen Chem Analysis Run Log	936
Gen Chem Raw Data	941
Gen Chem Prep Data	942
Subcontracted Data	943
Shipping and Receiving Documents	944
Client Chain of Custody	945
Sample Receipt Checklist	949

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Inwood - Lot 9

Report Number: 460-273105-1

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

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

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

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

RECEIPT

The samples were received on 01/17/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 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-09-48_(15-15.5)P (460-273105-1), BCS-09-49_(15-15.5)P (460-273105-2), BCS-09-50_(15-15.5)P (460-273105-3), BCS-09-51_(15-15.5)P (460-273105-4) and DUP_09_011723P (460-273105-6) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 01/24/2023 and analyzed on 01/26/2023.

Sample FB-01172023P (460-273105-5) was analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared and analyzed on 01/23/2023.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 200-187735.

The "I" qualifier associated with sample BCS-09-50_(15-15.5)P (460-273105-3) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

13C8 FOSA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: BCS-09-50_(15-15.5)P (460-273105-3). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

No other difficulties were encountered during the PFAS analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples BCS-09-48_(15-15.5)P (460-273105-1), BCS-09-49_(15-15.5)P (460-273105-2), BCS-09-50_(15-15.5)P (460-273105-3), BCS-09-51_(15-15.5)P (460-273105-4) and DUP_09_011723P (460-273105-6) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 01/25/2023.

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: 460-273105-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-273105-1	BCS-09-48_(15-15.5)P	Solid	01/17/23 12:15	01/17/23 18:00
460-273105-2	BCS-09-49_(15-15.5)P	Solid	01/17/23 12:25	01/17/23 18:00
460-273105-3	BCS-09-50_(15-15.5)P	Solid	01/17/23 12:35	01/17/23 18:00
460-273105-4	BCS-09-51_(15-15.5)P	Solid	01/17/23 12:45	01/17/23 18:00
460-273105-5	FB-01172023P	Water	01/17/23 12:05	01/17/23 18:00
460-273105-6	DUP_09_011723P	Solid	01/17/23 12:55	01/17/23 18:00

Detection Summary

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

Job ID: 460-273105-1

Client Sample ID: BCS-09-48_(15-15.5)P

Lab Sample ID: 460-273105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.067	J	0.24	0.065	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: BCS-09-49_(15-15.5)P

Lab Sample ID: 460-273105-2

No Detections.

Client Sample ID: BCS-09-50_(15-15.5)P

Lab Sample ID: 460-273105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.10	J	0.31	0.084	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.14	J	0.31	0.070	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.064	J	0.31	0.059	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.27	J	0.31	0.17	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: BCS-09-51_(15-15.5)P

Lab Sample ID: 460-273105-4

No Detections.

Client Sample ID: FB-01172023P

Lab Sample ID: 460-273105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.91	J	4.12	0.99	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUP_09_011723P

Lab Sample ID: 460-273105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.077	J	0.27	0.074	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.075	J	0.27	0.062	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 460-273105-1

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: 460-273105-1

Client Sample ID: BCS-09-48_(15-15.5)P

Lab Sample ID: 460-273105-1

Date Collected: 01/17/23 12:15

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 84.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.59	U	0.59	0.39	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluoropentanoic acid (PFPeA)	0.067	J	0.24	0.065	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.054	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.046	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.068	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.040	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.033	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.032	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.029	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.029	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.031	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.039	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.048	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	0.24	0.027	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorooctanesulfonic acid (PFOS)	0.24	U	0.24	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.022	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Perfluorooctanesulfonamide (FOSA)	0.24	U	0.24	0.040	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.36	U	2.36	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.36	U	2.36	0.098	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
6:2 FTS	2.36	U	2.36	0.067	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
8:2 FTS	2.36	U	2.36	0.044	ug/Kg	☼	01/24/23 15:34	01/26/23 20:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	63		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C4 PFHpA	86		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C4 PFOA	78		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C4 PFOS	75		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C5 PFNA	88		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C4 PFBA	82		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C2 PFHxA	77		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C2 PFDA	89		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C2 PFUnA	84		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C2 PFDoA	77		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C8 FOSA	74		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C5 PFPeA	74		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C2 PFTeDA	77		50 - 150				01/24/23 15:34	01/26/23 20:43	1
d3-NMeFOSAA	95		50 - 150				01/24/23 15:34	01/26/23 20:43	1
d5-NEtFOSAA	101		50 - 150				01/24/23 15:34	01/26/23 20:43	1
M2-6:2 FTS	77		50 - 150				01/24/23 15:34	01/26/23 20:43	1
M2-8:2 FTS	77		50 - 150				01/24/23 15:34	01/26/23 20:43	1
13C3 PFBS	63		50 - 150				01/24/23 15:34	01/26/23 20:43	1

Client Sample Results

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

Job ID: 460-273105-1

Client Sample ID: BCS-09-49_(15-15.5)P

Lab Sample ID: 460-273105-2

Date Collected: 01/17/23 12:25

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 81.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.58	U	0.58	0.38	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluoropentanoic acid (PFPeA)	0.23	U	0.23	0.064	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.054	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.045	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.068	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.040	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.033	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.031	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.029	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.029	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.030	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.048	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluoroheptanesulfonic acid (PFHpS)	0.23	U	0.23	0.027	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorodecanesulfonic acid (PFDS)	0.23	U	0.23	0.022	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Perfluorooctanesulfonamide (FOSA)	0.23	U	0.23	0.040	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.33	U	2.33	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.33	U	2.33	0.097	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
6:2 FTS	2.33	U	2.33	0.066	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
8:2 FTS	2.33	U	2.33	0.043	ug/Kg	☼	01/24/23 15:34	01/26/23 21:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	68		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C4 PFHpA	80		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C4 PFOA	83		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C4 PFOS	77		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C5 PFNA	85		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C4 PFBA	82		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C2 PFHxA	79		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C2 PFDA	82		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C2 PFUnA	83		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C2 PFDoA	72		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C8 FOSA	74		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C5 PFPeA	80		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C2 PFTeDA	74		50 - 150				01/24/23 15:34	01/26/23 21:08	1
d3-NMeFOSAA	100		50 - 150				01/24/23 15:34	01/26/23 21:08	1
d5-NEtFOSAA	91		50 - 150				01/24/23 15:34	01/26/23 21:08	1
M2-6:2 FTS	86		50 - 150				01/24/23 15:34	01/26/23 21:08	1
M2-8:2 FTS	82		50 - 150				01/24/23 15:34	01/26/23 21:08	1
13C3 PFBS	67		50 - 150				01/24/23 15:34	01/26/23 21:08	1

Client Sample Results

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

Job ID: 460-273105-1

Client Sample ID: BCS-09-50_(15-15.5)P

Lab Sample ID: 460-273105-3

Date Collected: 01/17/23 12:35

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 62.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.50	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluoropentanoic acid (PFPeA)	0.10	J	0.31	0.084	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorohexanoic acid (PFHxA)	0.14	J	0.31	0.070	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluoroheptanoic acid (PFHpA)	0.064	J	0.31	0.059	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorooctanoic acid (PFOA)	0.31	U	0.31	0.088	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorononanoic acid (PFNA)	0.31	U	0.31	0.052	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorodecanoic acid (PFDA)	0.31	U	0.31	0.043	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluoroundecanoic acid (PFUnA)	0.31	U	0.31	0.041	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorododecanoic acid (PFDoA)	0.31	U	0.31	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorotridecanoic acid (PFTriA)	0.31	U	0.31	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorotetradecanoic acid (PFTeA)	0.31	U	0.31	0.040	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorobutanesulfonic acid (PFBS)	0.31	U	0.31	0.050	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.31	U	0.31	0.063	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluoroheptanesulfonic acid (PFHpS)	0.31	U	0.31	0.035	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorooctanesulfonic acid (PFOS)	0.27	J	0.31	0.17	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorodecanesulfonic acid (PFDS)	0.31	U	0.31	0.029	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
Perfluorooctanesulfonamide (FOSA)	0.31	U	0.31	0.052	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.05	U	3.05	0.17	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.05	U	3.05	0.13	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
6:2 FTS	3.05	U	3.05	0.087	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
8:2 FTS	3.05	U	3.05	0.056	ug/Kg	☼	01/24/23 15:34	01/26/23 21:16	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	57		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C4 PFHpA	63		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C4 PFOA	72		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C4 PFOS	59		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C5 PFNA	62		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C4 PFBA	70		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C2 PFHxA	71		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C2 PFDA	65		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C2 PFUnA	69		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C2 PFDoA	61		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C8 FOSA	45 *		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C5 PFPeA	72		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C2 PFTeDA	58		50 - 150				01/24/23 15:34	01/26/23 21:16	1
d3-NMeFOSAA	78		50 - 150				01/24/23 15:34	01/26/23 21:16	1
d5-NEtFOSAA	91		50 - 150				01/24/23 15:34	01/26/23 21:16	1
M2-6:2 FTS	102		50 - 150				01/24/23 15:34	01/26/23 21:16	1
M2-8:2 FTS	105		50 - 150				01/24/23 15:34	01/26/23 21:16	1
13C3 PFBS	54		50 - 150				01/24/23 15:34	01/26/23 21:16	1

Client Sample Results

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

Job ID: 460-273105-1

Client Sample ID: BCS-09-51_(15-15.5)P

Lab Sample ID: 460-273105-4

Date Collected: 01/17/23 12:45

Matrix: Solid

Date Received: 01/17/23 18:00

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)	0.64	U	0.64	0.42	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluoropentanoic acid (PFPeA)	0.25	U	0.25	0.070	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.058	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.050	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.074	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.043	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorodecanoic acid (PFDA)	0.25	U	0.25	0.036	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.034	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.032	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.032	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.033	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.042	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.052	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluoroheptanesulfonic acid (PFHpS)	0.25	U	0.25	0.029	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorooctanesulfonic acid (PFOS)	0.25	U	0.25	0.14	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorodecanesulfonic acid (PFDS)	0.25	U	0.25	0.024	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Perfluorooctanesulfonamide (FOSA)	0.25	U	0.25	0.043	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.54	U	2.54	0.14	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.54	U	2.54	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
6:2 FTS	2.54	U	2.54	0.072	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
8:2 FTS	2.54	U	2.54	0.047	ug/Kg	☼	01/24/23 15:34	01/26/23 21:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	62		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C4 PFHpA	78		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C4 PFOA	79		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C4 PFOS	66		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C5 PFNA	79		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C4 PFBA	88		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C2 PFHxA	86		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C2 PFDA	81		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C2 PFUnA	80		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C2 PFDoA	87		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C8 FOSA	61		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C5 PFPeA	75		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C2 PFTeDA	73		50 - 150				01/24/23 15:34	01/26/23 21:24	1
d3-NMeFOSAA	80		50 - 150				01/24/23 15:34	01/26/23 21:24	1
d5-NEtFOSAA	100		50 - 150				01/24/23 15:34	01/26/23 21:24	1
M2-6:2 FTS	75		50 - 150				01/24/23 15:34	01/26/23 21:24	1
M2-8:2 FTS	88		50 - 150				01/24/23 15:34	01/26/23 21:24	1
13C3 PFBS	74		50 - 150				01/24/23 15:34	01/26/23 21:24	1

Client Sample Results

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

Job ID: 460-273105-1

Client Sample ID: FB-01172023P

Lab Sample ID: 460-273105-5

Date Collected: 01/17/23 12:05

Matrix: Water

Date Received: 01/17/23 18:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.91	J	4.12	0.99	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluoropentanoic acid (PFPeA)	1.65	U	1.65	0.56	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorohexanoic acid (PFHxA)	1.65	U	1.65	0.54	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluoroheptanoic acid (PFHpA)	1.65	U	1.65	0.45	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorooctanoic acid (PFOA)	1.65	U	1.65	0.63	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorononanoic acid (PFNA)	1.65	U	1.65	0.40	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorodecanoic acid (PFDA)	1.65	U	1.65	0.38	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluoroundecanoic acid (PFUnA)	1.65	U	1.65	0.45	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorododecanoic acid (PFDoA)	1.65	U	1.65	0.40	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorotridecanoic acid (PFTriA)	1.65	U	1.65	0.40	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorotetradecanoic acid (PFTeA)	1.65	U	1.65	0.53	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorobutanesulfonic acid (PFBS)	1.65	U	1.65	0.51	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorohexanesulfonic acid (PFHxS)	1.65	U	1.65	0.45	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluoroheptanesulfonic acid (PFHpS)	1.65	U	1.65	0.34	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorodecanesulfonic acid (PFDS)	1.65	U	1.65	0.33	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorooctanesulfonic acid (PFOS)	1.65	U	1.65	0.70	ng/L		01/23/23 10:17	01/23/23 22:23	1
Perfluorooctanesulfonamide (FOSA)	1.65	U	1.65	0.76	ng/L		01/23/23 10:17	01/23/23 22:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.12	U	4.12	1.57	ng/L		01/23/23 10:17	01/23/23 22:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.12	U	4.12	1.32	ng/L		01/23/23 10:17	01/23/23 22:23	1
6:2 FTS	4.12	U	4.12	1.07	ng/L		01/23/23 10:17	01/23/23 22:23	1
8:2 FTS	1.65	U	1.65	0.63	ng/L		01/23/23 10:17	01/23/23 22:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	70		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C4 PFBA	87		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C5 PFPeA	84		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C2 PFHxA	83		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C4 PFHpA	85		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C4 PFOA	91		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C5 PFNA	86		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C2 PFDA	81		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C2 PFUnA	75		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C2 PFDoA	72		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C2 PFTeDA	72		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C3 PFBS	74		50 - 150				01/23/23 10:17	01/23/23 22:23	1
18O2 PFHxS	78		50 - 150				01/23/23 10:17	01/23/23 22:23	1
13C4 PFOS	86		50 - 150				01/23/23 10:17	01/23/23 22:23	1
d3-NMeFOSAA	89		50 - 150				01/23/23 10:17	01/23/23 22:23	1
d5-NEtFOSAA	94		50 - 150				01/23/23 10:17	01/23/23 22:23	1
M2-6:2 FTS	89		50 - 150				01/23/23 10:17	01/23/23 22:23	1
M2-8:2 FTS	82		50 - 150				01/23/23 10:17	01/23/23 22:23	1

Client Sample Results

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

Job ID: 460-273105-1

Client Sample ID: DUP_09_011723P

Lab Sample ID: 460-273105-6

Date Collected: 01/17/23 12:55

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 70.9

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	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluoropentanoic acid (PFPeA)	0.077	J	0.27	0.074	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorohexanoic acid (PFHxA)	0.075	J	0.27	0.062	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.078	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.036	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.044	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.055	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.69	U	2.69	0.15	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.69	U	2.69	0.11	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
6:2 FTS	2.69	U	2.69	0.077	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
8:2 FTS	2.69	U	2.69	0.050	ug/Kg	☼	01/24/23 15:34	01/26/23 21:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	70		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C4 PFHpA	79		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C4 PFOA	82		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C4 PFOS	66		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C5 PFNA	83		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C4 PFBA	85		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C2 PFHxA	83		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C2 PFDA	75		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C2 PFUnA	75		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C2 PFDoA	80		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C8 FOSA	64		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C5 PFPeA	79		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C2 PFTeDA	85		50 - 150				01/24/23 15:34	01/26/23 21:32	1
d3-NMeFOSAA	95		50 - 150				01/24/23 15:34	01/26/23 21:32	1
d5-NEtFOSAA	106		50 - 150				01/24/23 15:34	01/26/23 21:32	1
M2-6:2 FTS	100		50 - 150				01/24/23 15:34	01/26/23 21:32	1
M2-8:2 FTS	96		50 - 150				01/24/23 15:34	01/26/23 21:32	1
13C3 PFBS	65		50 - 150				01/24/23 15:34	01/26/23 21:32	1

Isotope Dilution Summary

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

Job ID: 460-273105-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (50-150)	PFHxA (50-150)	PFDA (50-150)
460-273105-1	BCS-09-48_(15-15.5)P	63	86	78	75	88	82	77	89
460-273105-1 MS	BCS-09-48_(15-15.5)P	67	80	90	86	85	92	84	94
460-273105-1 MSD	BCS-09-48_(15-15.5)P	67	79	85	72	83	85	83	94
460-273105-2	BCS-09-49_(15-15.5)P	68	80	83	77	85	82	79	82
460-273105-3	BCS-09-50_(15-15.5)P	57	63	72	59	62	70	71	65
460-273105-4	BCS-09-51_(15-15.5)P	62	78	79	66	79	88	86	81
460-273105-6	DUP_09_011723P	70	79	82	66	83	85	83	75
LCS 200-187806/2-A	Lab Control Sample	63	87	85	73	80	76	78	80
MB 200-187806/1-A	Method Blank	63	79	79	76	76	78	83	82

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA (50-150)	PFDaA (50-150)	PFOSA (50-150)	PFPeA (50-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (50-150)
460-273105-1	BCS-09-48_(15-15.5)P	84	77	74	74	77	95	101	77
460-273105-1 MS	BCS-09-48_(15-15.5)P	101	100	69	81	92	100	113	80
460-273105-1 MSD	BCS-09-48_(15-15.5)P	96	88	69	85	92	96	104	93
460-273105-2	BCS-09-49_(15-15.5)P	83	72	74	80	74	100	91	86
460-273105-3	BCS-09-50_(15-15.5)P	69	61	45 *	72	58	78	91	102
460-273105-4	BCS-09-51_(15-15.5)P	80	87	61	75	73	80	100	75
460-273105-6	DUP_09_011723P	75	80	64	79	85	95	106	100
LCS 200-187806/2-A	Lab Control Sample	86	79	64	67	72	93	99	80
MB 200-187806/1-A	Method Blank	81	80	67	75	79	99	91	84

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M282FTS (50-150)	C3PFBS (50-150)
460-273105-1	BCS-09-48_(15-15.5)P	77	63
460-273105-1 MS	BCS-09-48_(15-15.5)P	84	70
460-273105-1 MSD	BCS-09-48_(15-15.5)P	89	72
460-273105-2	BCS-09-49_(15-15.5)P	82	67
460-273105-3	BCS-09-50_(15-15.5)P	105	54
460-273105-4	BCS-09-51_(15-15.5)P	88	74
460-273105-6	DUP_09_011723P	96	65
LCS 200-187806/2-A	Lab Control Sample	85	62
MB 200-187806/1-A	Method Blank	79	70

Surrogate Legend

- PFHxS = 18O2 PFHxS
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFOS = 13C4 PFOS
- PFNA = 13C5 PFNA
- PFBA = 13C4 PFBA
- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFOSA = 13C8 FOSA
- PFPeA = 13C5 PFPeA
- PFTDA = 13C2 PFTeDA
- d3NMFOS = d3-NMeFOSAA

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC

Job ID: 460-273105-1

Project/Site: Inwood - Lot 9

d5NEFOS = d5-NEtFOSAA
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS
 C3PFBS = 13C3 PFBS

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)
460-273105-5	FB-01172023P	70	87	84	83	85	91	86	81
LCS 200-187735/2-A	Lab Control Sample	72	93	83	98	91	89	93	90
LCSD 200-187735/3-A	Lab Control Sample Dup	69	84	92	94	92	90	82	73
MB 200-187735/1-A	Method Blank	62	89	85	97	91	98	95	84

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOA (50-150)	PFDoA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
460-273105-5	FB-01172023P	75	72	72	74	78	86	89	94
LCS 200-187735/2-A	Lab Control Sample	85	82	81	80	84	85	87	98
LCSD 200-187735/3-A	Lab Control Sample Dup	79	80	84	75	81	79	90	96
MB 200-187735/1-A	Method Blank	97	86	75	78	78	92	87	84

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (50-150)	M282FTS (50-150)
460-273105-5	FB-01172023P	89	82
LCS 200-187735/2-A	Lab Control Sample	88	91
LCSD 200-187735/3-A	Lab Control Sample Dup	94	80
MB 200-187735/1-A	Method Blank	103	89

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
 PFOA = 13C4 PFOA
 PFUnA = 13C2 PFUnA
 PFDoA = 13C2 PFDoA
 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: 460-273105-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-187735/1-A

Matrix: Water

Analysis Batch: 187759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187735

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		01/23/23 10:17	01/23/23 19:40	1
Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	0.68	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.65	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.54	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.76	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.49	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.46	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.55	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.49	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorotridecanoic acid (PFTrIA)	2.00	U	2.00	0.48	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorotetradecanoic acid (PFTeA)	2.00	U	2.00	0.64	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.62	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.55	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.41	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.40	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.85	ng/L		01/23/23 10:17	01/23/23 19:40	1
Perfluorooctanesulfonamide (FOSA)	2.00	U	2.00	0.92	ng/L		01/23/23 10:17	01/23/23 19:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	U	5.00	1.90	ng/L		01/23/23 10:17	01/23/23 19:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	U	5.00	1.60	ng/L		01/23/23 10:17	01/23/23 19:40	1
6:2 FTS	5.00	U	5.00	1.30	ng/L		01/23/23 10:17	01/23/23 19:40	1
8:2 FTS	2.00	U	2.00	0.77	ng/L		01/23/23 10:17	01/23/23 19:40	1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFHpA	91		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C4 PFOA	98		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C5 PFNA	95		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C4 PFBA	89		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C2 PFHxA	97		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C2 PFDA	84		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C2 PFUnA	97		50 - 150	01/23/23 10:17	01/23/23 19:40	1
18O2 PFHxS	78		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C2 PFDoA	86		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C4 PFOS	92		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C8 FOSA	62		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C5 PFPeA	85		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C2 PFTeDA	75		50 - 150	01/23/23 10:17	01/23/23 19:40	1
d3-NMeFOSAA	87		50 - 150	01/23/23 10:17	01/23/23 19:40	1
d5-NEtFOSAA	84		50 - 150	01/23/23 10:17	01/23/23 19:40	1
M2-6:2 FTS	103		50 - 150	01/23/23 10:17	01/23/23 19:40	1
13C3 PFBS	78		50 - 150	01/23/23 10:17	01/23/23 19:40	1
M2-8:2 FTS	89		50 - 150	01/23/23 10:17	01/23/23 19:40	1

QC Sample Results

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

Job ID: 460-273105-1

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

Lab Sample ID: LCS 200-187735/2-A
Matrix: Water
Analysis Batch: 187759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	41.57		ng/L		104	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	36.29		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	37.16		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	46.63		ng/L		117	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.09		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	40.0	38.64		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	38.37		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	38.71		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	38.51		ng/L		96	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	41.54		ng/L		104	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	42.18		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	34.84		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.61		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	38.1	36.53		ng/L		96	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	32.82		ng/L		85	70 - 130
Perfluorooctanesulfonic acid (PFOS)	37.1	33.83		ng/L		91	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	38.98		ng/L		97	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.32		ng/L		108	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.99		ng/L		97	70 - 130
6:2 FTS	37.9	39.58		ng/L		104	60 - 140
8:2 FTS	38.3	41.46		ng/L		108	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	91		50 - 150
13C4 PFOA	89		50 - 150
13C5 PFNA	93		50 - 150
13C4 PFBA	93		50 - 150
13C2 PFHxA	98		50 - 150
13C2 PFDA	90		50 - 150
13C2 PFUnA	85		50 - 150
18O2 PFHxS	84		50 - 150
13C2 PFDoA	82		50 - 150
13C4 PFOS	85		50 - 150
13C8 FOSA	72		50 - 150
13C5 PFPeA	83		50 - 150
13C2 PFTeA	81		50 - 150
d3-NMeFOSAA	87		50 - 150
d5-NEtFOSAA	98		50 - 150
M2-6:2 FTS	88		50 - 150

QC Sample Results

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

Job ID: 460-273105-1

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

Lab Sample ID: LCS 200-187735/2-A
Matrix: Water
Analysis Batch: 187759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187735

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C3 PFBS	80		50 - 150
M2-8:2 FTS	91		50 - 150

Lab Sample ID: LCSD 200-187735/3-A
Matrix: Water
Analysis Batch: 187759

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 187735

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec RPD</i>		<i>RPD</i>	<i>Limit</i>
							<i>Limits</i>	<i>RPD</i>		
Perfluorobutanoic acid (PFBA)	40.0	45.62		ng/L		114	70 - 130	9	30	
Perfluoropentanoic acid (PFPeA)	40.0	36.89		ng/L		92	70 - 130	2	30	
Perfluorohexanoic acid (PFHxA)	40.0	39.10		ng/L		98	70 - 130	5	30	
Perfluoroheptanoic acid (PFHpA)	40.0	43.66		ng/L		109	70 - 130	7	30	
Perfluorooctanoic acid (PFOA)	40.0	42.14		ng/L		105	70 - 130	3	30	
Perfluorononanoic acid (PFNA)	40.0	41.63		ng/L		104	70 - 130	7	30	
Perfluorodecanoic acid (PFDA)	40.0	44.68		ng/L		112	70 - 130	15	30	
Perfluoroundecanoic acid (PFUnA)	40.0	44.61		ng/L		112	70 - 130	14	30	
Perfluorododecanoic acid (PFDoA)	40.0	41.58		ng/L		104	70 - 130	8	30	
Perfluorotridecanoic acid (PFTriA)	40.0	39.13		ng/L		98	70 - 130	6	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.66		ng/L		104	70 - 130	1	30	
Perfluorobutanesulfonic acid (PFBS)	35.4	41.33		ng/L		117	70 - 130	17	30	
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.89		ng/L		93	70 - 130	5	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	38.20		ng/L		100	70 - 130	4	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.18		ng/L		99	70 - 130	15	30	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.73		ng/L		102	70 - 130	11	30	
Perfluorooctanesulfonamide (FOSA)	40.0	35.66		ng/L		89	70 - 130	9	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.86		ng/L		107	70 - 130	1	30	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.16		ng/L		95	70 - 130	2	30	
6:2 FTS	37.9	38.49		ng/L		102	60 - 140	3	30	
8:2 FTS	38.3	39.78		ng/L		104	70 - 130	4	30	

<i>Isotope Dilution</i>	<i>LCSD LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFHpA	92		50 - 150
13C4 PFOA	90		50 - 150
13C5 PFNA	82		50 - 150
13C4 PFBA	84		50 - 150
13C2 PFHxA	94		50 - 150
13C2 PFDA	73		50 - 150
13C2 PFUnA	79		50 - 150
18O2 PFHxS	81		50 - 150
13C2 PFDoA	80		50 - 150

QC Sample Results

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

Job ID: 460-273105-1

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

Lab Sample ID: LCSD 200-187735/3-A
Matrix: Water
Analysis Batch: 187759

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 187735

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFOS	79		50 - 150
13C8 FOSA	69		50 - 150
13C5 PFPeA	92		50 - 150
13C2 PFTeDA	84		50 - 150
d3-NMeFOSAA	90		50 - 150
d5-NEtFOSAA	96		50 - 150
M2-6:2 FTS	94		50 - 150
13C3 PFBS	75		50 - 150
M2-8:2 FTS	80		50 - 150

Lab Sample ID: MB 200-187806/1-A
Matrix: Solid
Analysis Batch: 187884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187806

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

Isotope Dilution	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFHpA	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C4 PFOA	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C5 PFNA	76		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C4 PFBA	78		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFHxA	83		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFDA	82		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFUnA	81		50 - 150	01/24/23 15:34	01/26/23 20:27	1
18O2 PFHxS	63		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFDoA	80		50 - 150	01/24/23 15:34	01/26/23 20:27	1

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QC Sample Results

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

Job ID: 460-273105-1

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

Lab Sample ID: MB 200-187806/1-A
Matrix: Solid
Analysis Batch: 187884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187806

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFOS	76		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C8 FOSA	67		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C5 PFPeA	75		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C2 PFTeDA	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1
d3-NMeFOSAA	99		50 - 150	01/24/23 15:34	01/26/23 20:27	1
d5-NEtFOSAA	91		50 - 150	01/24/23 15:34	01/26/23 20:27	1
M2-6:2 FTS	84		50 - 150	01/24/23 15:34	01/26/23 20:27	1
13C3 PFBS	70		50 - 150	01/24/23 15:34	01/26/23 20:27	1
M2-8:2 FTS	79		50 - 150	01/24/23 15:34	01/26/23 20:27	1

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

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

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

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFHpA	87		50 - 150
13C4 PFOA	85		50 - 150

QC Sample Results

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

Job ID: 460-273105-1

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

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

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187806

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C5 PFNA	80		50 - 150
13C4 PFBA	76		50 - 150
13C2 PFHxA	78		50 - 150
13C2 PFDA	80		50 - 150
13C2 PFUnA	86		50 - 150
18O2 PFHxS	63		50 - 150
13C2 PFDoA	79		50 - 150
13C4 PFOS	73		50 - 150
13C8 FOSA	64		50 - 150
13C5 PFPeA	67		50 - 150
13C2 PFTeDA	72		50 - 150
d3-NMeFOSAA	93		50 - 150
d5-NEtFOSAA	99		50 - 150
M2-6:2 FTS	80		50 - 150
13C3 PFBS	62		50 - 150
M2-8:2 FTS	85		50 - 150

Lab Sample ID: 460-273105-1 MS

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-48_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	Limits
				Result	Qualifier					
Perfluorobutanoic acid (PFBA)	0.59	U	2.37	2.218		ug/Kg	☼	94		60 - 140
Perfluoropentanoic acid (PFPeA)	0.067	J	2.37	2.213		ug/Kg	☼	91		60 - 140
Perfluorohexanoic acid (PFHxA)	0.24	U	2.37	2.526		ug/Kg	☼	107		60 - 140
Perfluoroheptanoic acid (PFHpA)	0.24	U	2.37	2.506		ug/Kg	☼	106		60 - 140
Perfluorooctanoic acid (PFOA)	0.24	U	2.37	2.260		ug/Kg	☼	95		60 - 140
Perfluorononanoic acid (PFNA)	0.24	U	2.37	2.258		ug/Kg	☼	95		60 - 140
Perfluorodecanoic acid (PFDA)	0.24	U	2.37	2.312		ug/Kg	☼	98		60 - 140
Perfluoroundecanoic acid (PFUnA)	0.24	U	2.37	2.217		ug/Kg	☼	94		60 - 140
Perfluorododecanoic acid (PFDoA)	0.24	U	2.37	2.218		ug/Kg	☼	94		60 - 140
Perfluorotridecanoic acid (PFTriA)	0.24	U	2.37	1.960		ug/Kg	☼	83		60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.24	U	2.37	2.284		ug/Kg	☼	96		60 - 140
Perfluorobutanesulfonic acid (PFBS)	0.24	U	2.09	2.311		ug/Kg	☼	110		60 - 140
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	2.16	2.184		ug/Kg	☼	101		60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	2.26	2.058		ug/Kg	☼	91		60 - 140
Perfluorooctanesulfonic acid (PFOS)	0.24	U	2.20	1.868		ug/Kg	☼	85		60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.24	U	2.28	1.996		ug/Kg	☼	87		60 - 140
Perfluorooctanesulfonamide (FOSA)	0.24	U	2.37	2.258		ug/Kg	☼	95		60 - 140
N-methylperfluorooctanesulfonamide (NMeFOSAA)	2.36	U	2.37	2.332	J	ug/Kg	☼	98		60 - 140

QC Sample Results

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

Job ID: 460-273105-1

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

Lab Sample ID: 460-273105-1 MS

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-48_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	2.36	U	2.37	2.358	J	ug/Kg	☼	100	60 - 140	
6:2 FTS	2.36	U	2.25	2.304	J	ug/Kg	☼	103	50 - 150	
8:2 FTS	2.36	U	2.27	2.627		ug/Kg	☼	116	60 - 140	
MS MS										
Isotope Dilution	%Recovery	MS Qualifier	MS Limits							
18O2 PFHxS	67		50 - 150							
13C4 PFHpA	80		50 - 150							
13C4 PFOA	90		50 - 150							
13C4 PFOS	86		50 - 150							
13C5 PFNA	85		50 - 150							
13C4 PFBA	92		50 - 150							
13C2 PFHxA	84		50 - 150							
13C2 PFDA	94		50 - 150							
13C2 PFUnA	101		50 - 150							
13C2 PFDoA	100		50 - 150							
13C8 FOSA	69		50 - 150							
13C5 PFPeA	81		50 - 150							
13C2 PFTeDA	92		50 - 150							
d3-NMeFOSAA	100		50 - 150							
d5-NEtFOSAA	113		50 - 150							
M2-6:2 FTS	80		50 - 150							
M2-8:2 FTS	84		50 - 150							
13C3 PFBS	70		50 - 150							

Lab Sample ID: 460-273105-1 MSD

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-48_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.59	U	2.36	2.557		ug/Kg	☼	108	60 - 140	14	30
Perfluoropentanoic acid (PFPeA)	0.067	J	2.36	2.222		ug/Kg	☼	91	60 - 140	0	30
Perfluorohexanoic acid (PFHxA)	0.24	U	2.36	2.443		ug/Kg	☼	104	60 - 140	3	30
Perfluoroheptanoic acid (PFHpA)	0.24	U	2.36	2.583		ug/Kg	☼	109	60 - 140	3	30
Perfluorooctanoic acid (PFOA)	0.24	U	2.36	2.613		ug/Kg	☼	111	60 - 140	15	30
Perfluorononanoic acid (PFNA)	0.24	U	2.36	2.487		ug/Kg	☼	105	60 - 140	10	30
Perfluorodecanoic acid (PFDA)	0.24	U	2.36	2.318		ug/Kg	☼	98	60 - 140	0	30
Perfluoroundecanoic acid (PFUnA)	0.24	U	2.36	2.128		ug/Kg	☼	90	60 - 140	4	30
Perfluorododecanoic acid (PFDoA)	0.24	U	2.36	2.147		ug/Kg	☼	91	60 - 140	3	30
Perfluorotridecanoic acid (PFTriA)	0.24	U	2.36	2.317		ug/Kg	☼	98	60 - 140	17	30
Perfluorotetradecanoic acid (PFTeA)	0.24	U	2.36	2.184		ug/Kg	☼	93	60 - 140	4	30
Perfluorobutanesulfonic acid (PFBS)	0.24	U	2.09	2.196		ug/Kg	☼	105	60 - 140	5	30
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	2.15	2.175		ug/Kg	☼	101	60 - 140	0	30
Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	2.25	2.472		ug/Kg	☼	110	60 - 140	18	30

QC Sample Results

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

Job ID: 460-273105-1

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

Lab Sample ID: 460-273105-1 MSD

Matrix: Solid

Analysis Batch: 187884

Client Sample ID: BCS-09-48_(15-15.5)P

Prep Type: Total/NA

Prep Batch: 187806

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Perfluorooctanesulfonic acid (PFOS)	0.24	U	2.19	2.205		ug/Kg	☼	101	60 - 140	17	30
Perfluorodecanesulfonic acid (PFDS)	0.24	U	2.28	2.200		ug/Kg	☼	97	60 - 140	10	30
Perfluorooctanesulfonamide (FOSA)	0.24	U	2.36	2.213		ug/Kg	☼	94	60 - 140	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.36	U	2.36	2.488		ug/Kg	☼	105	60 - 140	6	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.36	U	2.36	2.479		ug/Kg	☼	105	60 - 140	5	30
6:2 FTS	2.36	U	2.24	2.200	J	ug/Kg	☼	98	50 - 150	5	30
8:2 FTS	2.36	U	2.26	2.358	J	ug/Kg	☼	104	60 - 140	11	30

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
18O2 PFHxS	67		50 - 150
13C4 PFHpA	79		50 - 150
13C4 PFOA	85		50 - 150
13C4 PFOS	72		50 - 150
13C5 PFNA	83		50 - 150
13C4 PFBA	85		50 - 150
13C2 PFHxA	83		50 - 150
13C2 PFDA	94		50 - 150
13C2 PFUnA	96		50 - 150
13C2 PFDoA	88		50 - 150
13C8 FOSA	69		50 - 150
13C5 PFPeA	85		50 - 150
13C2 PFTeDA	92		50 - 150
d3-NMeFOSAA	96		50 - 150
d5-NEtFOSAA	104		50 - 150
M2-6:2 FTS	93		50 - 150
M2-8:2 FTS	89		50 - 150
13C3 PFBS	72		50 - 150

Definitions/Glossary

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

Job ID: 460-273105-1

Qualifiers

LCMS

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

Glossary

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

QC Association Summary

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

Job ID: 460-273105-1

LCMS

Prep Batch: 187735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273105-5	FB-01172023P	Total/NA	Water	3535	
MB 200-187735/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-187735/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-187735/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 187759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273105-5	FB-01172023P	Total/NA	Water	537 (modified)	187735
MB 200-187735/1-A	Method Blank	Total/NA	Water	537 (modified)	187735
LCS 200-187735/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	187735
LCSD 200-187735/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	187735

Prep Batch: 187806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273105-1	BCS-09-48_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273105-2	BCS-09-49_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273105-3	BCS-09-50_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273105-4	BCS-09-51_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273105-6	DUP_09_011723P	Total/NA	Solid	SHAKE	
MB 200-187806/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-187806/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-273105-1 MS	BCS-09-48_(15-15.5)P	Total/NA	Solid	SHAKE	
460-273105-1 MSD	BCS-09-48_(15-15.5)P	Total/NA	Solid	SHAKE	

Analysis Batch: 187884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273105-1	BCS-09-48_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273105-2	BCS-09-49_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273105-3	BCS-09-50_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273105-4	BCS-09-51_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273105-6	DUP_09_011723P	Total/NA	Solid	537 (modified)	187806
MB 200-187806/1-A	Method Blank	Total/NA	Solid	537 (modified)	187806
LCS 200-187806/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	187806
460-273105-1 MS	BCS-09-48_(15-15.5)P	Total/NA	Solid	537 (modified)	187806
460-273105-1 MSD	BCS-09-48_(15-15.5)P	Total/NA	Solid	537 (modified)	187806

General Chemistry

Analysis Batch: 187837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-273105-1	BCS-09-48_(15-15.5)P	Total/NA	Solid	Moisture	
460-273105-2	BCS-09-49_(15-15.5)P	Total/NA	Solid	Moisture	
460-273105-3	BCS-09-50_(15-15.5)P	Total/NA	Solid	Moisture	
460-273105-4	BCS-09-51_(15-15.5)P	Total/NA	Solid	Moisture	
460-273105-6	DUP_09_011723P	Total/NA	Solid	Moisture	
200-66538-A-6 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 460-273105-1

Client Sample ID: BCS-09-48_(15-15.5)P

Lab Sample ID: 460-273105-1

Date Collected: 01/17/23 12:15

Matrix: Solid

Date Received: 01/17/23 18:00

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

Client Sample ID: BCS-09-48_(15-15.5)P

Lab Sample ID: 460-273105-1

Date Collected: 01/17/23 12:15

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 20:43

Client Sample ID: BCS-09-49_(15-15.5)P

Lab Sample ID: 460-273105-2

Date Collected: 01/17/23 12:25

Matrix: Solid

Date Received: 01/17/23 18:00

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

Client Sample ID: BCS-09-49_(15-15.5)P

Lab Sample ID: 460-273105-2

Date Collected: 01/17/23 12:25

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 21:08

Client Sample ID: BCS-09-50_(15-15.5)P

Lab Sample ID: 460-273105-3

Date Collected: 01/17/23 12:35

Matrix: Solid

Date Received: 01/17/23 18:00

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

Client Sample ID: BCS-09-50_(15-15.5)P

Lab Sample ID: 460-273105-3

Date Collected: 01/17/23 12:35

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 62.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 21:16

Client Sample ID: BCS-09-51_(15-15.5)P

Lab Sample ID: 460-273105-4

Date Collected: 01/17/23 12:45

Matrix: Solid

Date Received: 01/17/23 18:00

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

Lab Chronicle

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

Job ID: 460-273105-1

Client Sample ID: BCS-09-51_(15-15.5)P

Lab Sample ID: 460-273105-4

Date Collected: 01/17/23 12:45

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 75.3

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

Client Sample ID: FB-01172023P

Lab Sample ID: 460-273105-5

Date Collected: 01/17/23 12:05

Matrix: Water

Date Received: 01/17/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			187735	KFW	EET BUR	01/23/23 10:17
Total/NA	Analysis	537 (modified)		1	187759	BWC	EET BUR	01/23/23 22:23

Client Sample ID: DUP_09_011723P

Lab Sample ID: 460-273105-6

Date Collected: 01/17/23 12:55

Matrix: Solid

Date Received: 01/17/23 18:00

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

Client Sample ID: DUP_09_011723P

Lab Sample ID: 460-273105-6

Date Collected: 01/17/23 12:55

Matrix: Solid

Date Received: 01/17/23 18:00

Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187806	EK	EET BUR	01/24/23 15:34
Total/NA	Analysis	537 (modified)		1	187884	BWC	EET BUR	01/26/23 21:32

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: 460-273105-1

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.: 460-273105-1

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-09-48_(15-15.5))P	460-273105-1	82	74	63	77	86	63	77	78
BCS-09-49_(15-15.5))P	460-273105-2	82	80	67	79	80	68	86	83
BCS-09-50_(15-15.5))P	460-273105-3	70	72	54	71	63	57	102	72
BCS-09-51_(15-15.5))P	460-273105-4	88	75	74	86	78	62	75	79
DUP_09_011723P	460-273105-6	85	79	65	83	79	70	100	82
	MB 200-187806/1-A	78	75	70	83	79	63	84	79
	LCS 200-187806/2-A	76	67	62	78	87	63	80	85
BCS-09-48_(15-15.5))P MS	460-273105-1 MS	92	81	70	84	80	67	80	90
BCS-09-48_(15-15.5))P MSD	460-273105-1 MSD	85	85	72	83	79	67	93	85

PFBA = 13C4 PFBA	<u>QC LIMITS</u>
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.: 460-273105-1

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-09-48_(15-15.5))P	460-273105-1	75	88	89	77	74	95	84	101
BCS-09-49_(15-15.5))P	460-273105-2	77	85	82	82	74	100	83	91
BCS-09-50_(15-15.5))P	460-273105-3	59	62	65	105	45 *	78	69	91
BCS-09-51_(15-15.5))P	460-273105-4	66	79	81	88	61	80	80	100
DUP_09_011723P	460-273105-6	66	83	75	96	64	95	75	106
	MB 200-187806/1-A	76	76	82	79	67	99	81	91
	LCS 200-187806/2-A	73	80	80	85	64	93	86	99
BCS-09-48_(15-15.5))P MS	460-273105-1 MS	86	85	94	84	69	100	101	113
BCS-09-48_(15-15.5))P MSD	460-273105-1 MSD	72	83	94	89	69	96	96	104

QC LIMITS

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

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	PFDa #	PFTDA #
BCS-09-48_(15-15.5))P	460-273105-1	77	77
BCS-09-49_(15-15.5))P	460-273105-2	72	74
BCS-09-50_(15-15.5))P	460-273105-3	61	58
BCS-09-51_(15-15.5))P	460-273105-4	87	73
DUP_09_011723P	460-273105-6	80	85
	MB 200-187806/1-A	80	79
	LCS 200-187806/2-A	79	72
BCS-09-48_(15-15.5))P MS	460-273105-1 MS	100	92
BCS-09-48_(15-15.5))P MSD	460-273105-1 MSD	88	92

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.: 460-273105-1

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-01172023P	460-273105-5	87	84	74	83	85	78	89	91
	MB 200-187735/1-A	89	85	78	97	91	78	103	98
	LCS 200-187735/2-A	93	83	80	98	91	84	88	89
	LCSD 200-187735/3-A	84	92	75	94	92	81	94	90

	<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.: 460-273105-1

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-01172023P	460-273105-5	86	86	81	82	70	89	75	94
	MB 200-187735/1-A	92	95	84	89	62	87	97	84
	LCS 200-187735/2-A	85	93	90	91	72	87	85	98
	LCSD 200-187735/3-A	79	82	73	80	69	90	79	96

	<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.: 460-273105-1

SDG No.: _____

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	PFDa #	PFTDA #
FB-01172023P	460-273105-5	72	72
	MB 200-187735/1-A	86	75
	LCS 200-187735/2-A	82	81
	LCSD 200-187735/3-A	80	84

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 III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA230123B03.d
 Lab ID: LCS 200-187735/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	41.57	104	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	36.29	91	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	37.16	93	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	46.63	117	70-130	
Perfluorooctanoic acid (PFOA)	40.0	41.09	103	70-130	
Perfluorononanoic acid (PFNA)	40.0	38.64	97	70-130	
Perfluorodecanoic acid (PFDA)	40.0	38.37	96	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	38.71	97	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	38.51	96	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	41.54	104	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	42.18	105	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	34.84	99	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.61	98	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	36.53	96	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	32.82	85	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	33.83	91	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	38.98	97	70-130	
13C4 PFHpA	50.0	45.63	91	50-150	
13C4 PFOA	50.0	44.58	89	50-150	
13C5 PFNA	50.0	46.48	93	50-150	
13C4 PFBA	50.0	46.62	93	50-150	
13C2 PFHxA	50.0	48.78	98	50-150	
13C2 PFDA	50.0	45.11	90	50-150	
13C2 PFUnA	50.0	42.44	85	50-150	
18O2 PFHxS	47.3	39.58	84	50-150	
13C2 PFDoA	50.0	40.83	82	50-150	
13C4 PFOS	47.8	40.84	85	50-150	
13C8 FOSA	50.0	35.93	72	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.32	108	70-130	
13C5 PFPeA	50.0	41.67	83	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.99	97	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.: 460-273105-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PA230123B03.d

Lab ID: LCS 200-187735/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	50.0	40.41	81	50-150	
d3-NMeFOSAA	50.0	43.38	87	50-150	
6:2 FTS	37.9	39.58	104	60-140	
d5-NEtFOSAA	50.0	49.03	98	50-150	
8:2 FTS	38.3	41.46	108	70-130	
M2-6:2 FTS	47.5	41.58	88	50-150	
13C3 PFBS	46.5	37.02	80	50-150	
M2-8:2 FTS	47.9	43.39	91	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.: 460-273105-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A07.d
 Lab ID: LCS 200-187806/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.00	2.051	103	60-140	
Perfluoropentanoic acid (PFPeA)	2.00	2.115	106	60-140	
Perfluorohexanoic acid (PFHxA)	2.00	2.076	104	60-140	
Perfluoroheptanoic acid (PFHpA)	2.00	1.975	99	60-140	
Perfluorooctanoic acid (PFOA)	2.00	1.750	87	60-140	
Perfluorononanoic acid (PFNA)	2.00	2.221	111	60-140	
Perfluorodecanoic acid (PFDA)	2.00	1.984	99	60-140	
Perfluoroundecanoic acid (PFUnA)	2.00	1.852	93	60-140	
Perfluorododecanoic acid (PFDoA)	2.00	1.926	96	60-140	
Perfluorotridecanoic acid (PFTriA)	2.00	1.909	95	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.00	2.080	104	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.77	1.951	110	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.836	101	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.912	100	60-140	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.626	84	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.86	1.724	93	60-140	
Perfluorooctanesulfonamide (FOSA)	2.00	2.247	112	60-140	
13C4 PFHpA	2.50	2.186	87	50-150	
13C4 PFOA	2.50	2.125	85	50-150	
13C5 PFNA	2.50	1.991	80	50-150	
13C4 PFBA	2.50	1.906	76	50-150	
13C2 PFHxA	2.50	1.944	78	50-150	
13C2 PFDA	2.50	1.992	80	50-150	
13C2 PFUnA	2.50	2.160	86	50-150	
18O2 PFHxS	2.37	1.502	63	50-150	
13C2 PFDoA	2.50	1.975	79	50-150	
13C4 PFOS	2.39	1.752	73	50-150	
13C8 FOSA	2.50	1.602	64	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.928 J	96	60-140	
13C5 PFPeA	2.50	1.680	67	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.989 J	99	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.: 460-273105-1

SDG No.: _____

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

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

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	2.50	1.793	72	50-150	
d3-NMeFOSAA	2.50	2.336	93	50-150	
6:2 FTS	1.90	1.904 J	100	50-150	
d5-NEtFOSAA	2.50	2.465	99	50-150	
8:2 FTS	1.92	1.932 J	101	60-140	
M2-6:2 FTS	2.38	1.896	80	50-150	
13C3 PFBS	2.33	1.446	62	50-150	
M2-8:2 FTS	2.40	2.036	85	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.: 460-273105-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA230123B04.d
 Lab ID: LCSD 200-187735/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	40.0	45.62	114	9	30	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	36.89	92	2	30	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	39.10	98	5	30	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	43.66	109	7	30	70-130	
Perfluorooctanoic acid (PFOA)	40.0	42.14	105	3	30	70-130	
Perfluorononanoic acid (PFNA)	40.0	41.63	104	7	30	70-130	
Perfluorodecanoic acid (PFDA)	40.0	44.68	112	15	30	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	44.61	112	14	30	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	41.58	104	8	30	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	39.13	98	6	30	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.66	104	1	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	41.33	117	17	30	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.89	93	5	30	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	38.20	100	4	30	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.18	99	15	30	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.73	102	11	30	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	35.66	89	9	30	70-130	
13C4 PFHpA	50.0	45.78	92			50-150	
13C4 PFOA	50.0	45.11	90			50-150	
13C5 PFNA	50.0	41.11	82			50-150	
13C4 PFBA	50.0	42.07	84			50-150	
13C2 PFHxA	50.0	46.96	94			50-150	
13C2 PFDA	50.0	36.73	73			50-150	
13C2 PFUnA	50.0	39.58	79			50-150	
18O2 PFHxS	47.3	38.46	81			50-150	
13C2 PFDoA	50.0	39.90	80			50-150	
13C4 PFOS	47.8	37.87	79			50-150	
13C8 FOSA	50.0	34.51	69			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.86	107	1	30	70-130	
13C5 PFPeA	50.0	46.20	92			50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.16	95	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.: 460-273105-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA230123B04.d
 Lab ID: LCSD 200-187735/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	50.0	41.78	84			50-150	
d3-NMeFOSAA	50.0	45.25	90			50-150	
6:2 FTS	37.9	38.49	102	3	30	60-140	
d5-NEtFOSAA	50.0	47.97	96			50-150	
8:2 FTS	38.3	39.78	104	4	30	70-130	
M2-6:2 FTS	47.5	44.56	94			50-150	
13C3 PFBS	46.5	35.07	75			50-150	
M2-8:2 FTS	47.9	38.42	80			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.: 460-273105-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: PA230126A09.d

Lab ID: 460-273105-1 MS

Client ID: BCS-09-48_(15-15.5)P MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.37	0.59 U	2.218	94	60-140	
Perfluoropentanoic acid (PFPeA)	2.37	0.067 J	2.213	91	60-140	
Perfluorohexanoic acid (PFHxA)	2.37	0.24 U	2.526	107	60-140	
Perfluoroheptanoic acid (PFHpA)	2.37	0.24 U	2.506	106	60-140	
Perfluorooctanoic acid (PFOA)	2.37	0.24 U	2.260	95	60-140	
Perfluorononanoic acid (PFNA)	2.37	0.24 U	2.258	95	60-140	
Perfluorodecanoic acid (PFDA)	2.37	0.24 U	2.312	98	60-140	
Perfluoroundecanoic acid (PFUnA)	2.37	0.24 U	2.217	94	60-140	
Perfluorododecanoic acid (PFDoA)	2.37	0.24 U	2.218	94	60-140	
Perfluorotridecanoic acid (PFTriA)	2.37	0.24 U	1.960	83	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.37	0.24 U	2.284	96	60-140	
Perfluorobutanesulfonic acid (PFBS)	2.09	0.24 U	2.311	110	60-140	
Perfluorohexanesulfonic acid (PFHxS)	2.16	0.24 U	2.184	101	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.26	0.24 U	2.058	91	60-140	
Perfluorooctanesulfonic acid (PFOS)	2.20	0.24 U	1.868	85	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.28	0.24 U	1.996	87	60-140	
Perfluorooctanesulfonamide (FOSA)	2.37	0.24 U	2.258	95	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.37	2.36 U	2.332 J	98	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.37	2.36 U	2.358 J	100	60-140	
6:2 FTS	2.25	2.36 U	2.304 J	103	50-150	
8:2 FTS	2.27	2.36 U	2.627	116	60-140	
18O2 PFHxS	2.80	1.76	1.888	67	50-150	
13C4 PFHpA	2.96	2.52	2.371	80	50-150	
13C4 PFOA	2.96	2.29	2.652	90	50-150	
13C4 PFOS	2.83	2.11	2.437	86	50-150	
13C5 PFNA	2.96	2.59	2.526	85	50-150	
13C4 PFBA	2.96	2.42	2.734	92	50-150	
13C2 PFHxA	2.96	2.28	2.494	84	50-150	
13C2 PFDA	2.96	2.61	2.795	94	50-150	
13C2 PFUnA	2.96	2.48	2.980	101	50-150	
13C2 PFDoA	2.96	2.25	2.959	100	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.: 460-273105-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A09.d
 Lab ID: 460-273105-1 MS Client ID: BCS-09-48_(15-15.5)P MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C8 FOSA	2.96	2.18	2.046	69	50-150	
13C5 PFPeA	2.96	2.19	2.402	81	50-150	
13C2 PFTeDA	2.96	2.27	2.719	92	50-150	
d3-NMeFOSAA	2.96	2.80	2.964	100	50-150	
d5-NEtFOSAA	2.96	2.98	3.354	113	50-150	
M2-6:2 FTS	2.81	2.16	2.245	80	50-150	
M2-8:2 FTS	2.84	2.17	2.386	84	50-150	
13C3 PFBS	2.75	1.72	1.915	70	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.: 460-273105-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: PA230126A10.d

Lab ID: 460-273105-1 MSD

Client ID: BCS-09-48_(15-15.5)P MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	2.36	2.557	108	14	30	60-140	
Perfluoropentanoic acid (PFPeA)	2.36	2.222	91	0	30	60-140	
Perfluorohexanoic acid (PFHxA)	2.36	2.443	104	3	30	60-140	
Perfluoroheptanoic acid (PFHpA)	2.36	2.583	109	3	30	60-140	
Perfluorooctanoic acid (PFOA)	2.36	2.613	111	15	30	60-140	
Perfluorononanoic acid (PFNA)	2.36	2.487	105	10	30	60-140	
Perfluorodecanoic acid (PFDA)	2.36	2.318	98	0	30	60-140	
Perfluoroundecanoic acid (PFUnA)	2.36	2.128	90	4	30	60-140	
Perfluorododecanoic acid (PFDoA)	2.36	2.147	91	3	30	60-140	
Perfluorotridecanoic acid (PFTriA)	2.36	2.317	98	17	30	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.36	2.184	93	4	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	2.09	2.196	105	5	30	60-140	
Perfluorohexanesulfonic acid (PFHxS)	2.15	2.175	101	0	30	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.25	2.472	110	18	30	60-140	
Perfluorooctanesulfonic acid (PFOS)	2.19	2.205	101	17	30	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.28	2.200	97	10	30	60-140	
Perfluorooctanesulfonamide (FOSA)	2.36	2.213	94	2	30	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.36	2.488	105	6	30	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.36	2.479	105	5	30	60-140	
6:2 FTS	2.24	2.200 J	98	5	30	50-150	
8:2 FTS	2.26	2.358 J	104	11	30	60-140	
18O2 PFHxS	2.79	1.863	67			50-150	
13C4 PFHpA	2.95	2.321	79			50-150	
13C4 PFOA	2.95	2.513	85			50-150	
13C4 PFOS	2.82	2.033	72			50-150	
13C5 PFNA	2.95	2.437	83			50-150	
13C4 PFBA	2.95	2.505	85			50-150	
13C2 PFHxA	2.95	2.441	83			50-150	
13C2 PFDA	2.95	2.776	94			50-150	
13C2 PFUnA	2.95	2.827	96			50-150	
13C2 PFDoA	2.95	2.595	88			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.: 460-273105-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA230126A10.d
 Lab ID: 460-273105-1 MSD Client ID: BCS-09-48_(15-15.5)P MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C8 FOSA	2.95	2.023	69			50-150	
13C5 PFPeA	2.95	2.494	85			50-150	
13C2 PFTeDA	2.95	2.701	92			50-150	
d3-NMeFOSAA	2.95	2.825	96			50-150	
d5-NEtFOSAA	2.95	3.076	104			50-150	
M2-6:2 FTS	2.80	2.609	93			50-150	
M2-8:2 FTS	2.83	2.525	89			50-150	
13C3 PFBS	2.74	1.989	72			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.: 460-273105-1
 SDG No.: _____
 Lab File ID: PA230123B02.d Lab Sample ID: MB 200-187735/1-A
 Matrix: Water Date Extracted: 01/23/2023 10:17
 Instrument ID: LC812 Date Analyzed: 01/23/2023 19:40
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-187735/2-A	PA230123B03 .d	01/23/2023 19:48
	LCSD 200-187735/3-A	PA230123B04 .d	01/23/2023 19:56
FB-01172023P	460-273105-5	PA230123B22 .d	01/23/2023 22:23

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab File ID: PA230126A06.d Lab Sample ID: MB 200-187806/1-A
 Matrix: Solid Date Extracted: 01/24/2023 15:34
 Instrument ID: LC812 Date Analyzed: 01/26/2023 20:27
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-187806/2-A	PA230126A07 .d	01/26/2023 20:35
BCS-09-48_(15-15.5)P	460-273105-1	PA230126A08 .d	01/26/2023 20:43
BCS-09-48_(15-15.5)P MS	460-273105-1 MS	PA230126A09 .d	01/26/2023 20:51
BCS-09-48_(15-15.5)P MSD	460-273105-1 MSD	PA230126A10 .d	01/26/2023 20:59
BCS-09-49_(15-15.5)P	460-273105-2	PA230126A11 .d	01/26/2023 21:08
BCS-09-50_(15-15.5)P	460-273105-3	PA230126A12 .d	01/26/2023 21:16
BCS-09-51_(15-15.5)P	460-273105-4	PA230126A13 .d	01/26/2023 21:24
DUP_09_011723P	460-273105-6	PA230126A14 .d	01/26/2023 21:32

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Instrument I LC812 Calibration Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.6 (mm) Calibration End Date: 01/11/2023 18:23
 Calibration ID: 49712

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		1800555	3.44				
UPPER LIMIT		2700833	3.64				
LOWER LIMIT		900278	3.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-187441/11		1973325	3.46				
ICV 200-187441/12		2579133	3.46				
CCB 200-187747/4		1421523	3.43				
CCVLIS 200-187747/5		1370556	3.43				
CCB 200-187884/4		1655117	3.44				
CCVLIS 200-187884/5		1791794	3.44				

13PFOA = 13C2 PFOA

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

Column used to flag values outside QC limits

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Sample No.: CCVLIS 200-187747/5 Date Analyzed: 01/23/2023 18:02
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA230123A05.d Heated Purge: (Y/N) N
 Calibration ID: 49712

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		1370556	3.43				
UPPER LIMIT		2055834	3.63				
LOWER LIMIT		685278	3.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-187759/1		1561023	3.43				
MB 200-187735/1-A		1638381	3.43				
LCS 200-187735/2-A		1622022	3.43				
LCSD 200-187735/3-A		1661080	3.44				
CCV 200-187759/15		1738560	3.44				
460-273105-5	FB-01172023P	1779936	3.44				
CCV 200-187759/26		1789391	3.44				

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

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

Column used to flag values outside QC limits

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Sample No.: CCVLIS 200-187884/5 Date Analyzed: 01/26/2023 20:19
 Instrument ID: Lc812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA230126A05.d Heated Purge: (Y/N) N
 Calibration ID: 49712

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		1791794	3.44				
UPPER LIMIT		2687691	3.64				
LOWER LIMIT		895897	3.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-187806/1-A		1789915	3.43				
LCS 200-187806/2-A		1880247	3.44				
460-273105-1	BCS-09-48_(15-15.5) P	1807288	3.44				
460-273105-1 MS	BCS-09-48_(15-15.5) P MS	1709658	3.44				
460-273105-1 MSD	BCS-09-48_(15-15.5) P MSD	1661371	3.44				
460-273105-2	BCS-09-49_(15-15.5) P	1730499	3.44				
460-273105-3	BCS-09-50_(15-15.5) P	1939806	3.43				
460-273105-4	BCS-09-51_(15-15.5) P	1729320	3.44				
460-273105-6	DUP_09_011723P	1747189	3.44				
CCV 200-187884/20		1648139	3.44				

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

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

Column used to flag values outside QC limits

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-48_(15-15.5)P Lab Sample ID: 460-273105-1
 Matrix: Solid Lab File ID: PA230126A08.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.04(g) Date Analyzed: 01/26/2023 20:43
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 15.8 % Solids: 84.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.59	U	0.59	0.39
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.067	J	0.24	0.065
307-24-4	Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.054
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.046
335-67-1	Perfluorooctanoic acid (PFOA)	0.24	U	0.24	0.068
375-95-1	Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.040
335-76-2	Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.029
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.031
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.039
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.24	U	0.24	0.027
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.24	U	0.24	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.022
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.24	U	0.24	0.040
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.36	U	2.36	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.36	U	2.36	0.098
27619-97-2	6:2 FTS	2.36	U	2.36	0.067
39108-34-4	8:2 FTS	2.36	U	2.36	0.044

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-48_(15-15.5)P Lab Sample ID: 460-273105-1
 Matrix: Solid Lab File ID: PA230126A08.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.04(g) Date Analyzed: 01/26/2023 20:43
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 15.8 % Solids: 84.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	63		50-150
STL01892	13C4 PFHpA	86		50-150
STL00990	13C4 PFOA	78		50-150
STL00991	13C4 PFOS	75		50-150
STL00995	13C5 PFNA	88		50-150
STL00992	13C4 PFBA	82		50-150
STL00993	13C2 PFHxA	77		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	84		50-150
STL00998	13C2 PFDoA	77		50-150
STL01056	13C8 FOSA	74		50-150
STL01893	13C5 PFPeA	74		50-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	95		50-150
STL02117	d5-NEtFOSAA	101		50-150
STL02279	M2-6:2 FTS	77		50-150
STL02280	M2-8:2 FTS	77		50-150
STL02337	13C3 PFBS	63		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
 Lims ID: 460-273105-A-1-A
 Client ID: BCS-09-48_(15-15.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 20:43:39 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-1-A
 Misc. Info.: 200-0054135-008 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 13:13:34

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.606	1710450	1.03	82.3	20859	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.094	-0.008	1.000	67408	0.008601		6.5		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1247489	0.9283	74.3	7460	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	32389	0.0283		0.9		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1078789	0.7313	62.9	98604	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.397	2.384	0.013	1.000	2747	0.002763	Target=2.10	4.0		M
298.90 > 99.00	2.411	2.384	0.027	1.006	1302		2.11(1.05-3.15)	0.3		
D 60 M2-4:2 FTS	329.00 > 81.00	2.693	2.669	0.024	0.782	92516	0.7756	66.4	124	
D 7 13C2 PFHxA	315.00 > 270.00	2.718	2.694	0.024	0.789	1348830	0.9660	77.3	7287	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.718	2.706	0.012	1.000	24251	0.0213	Target=13.16	4.2		M
313.00 > 119.00	2.730	2.706	0.024	1.005	1574		15.41(6.58-19.74)	2.3		M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.830	2.806	0.024	1.000	186	0.000973		2.7		M
D 64 13C3 HFPO-DA	287.00 > 169.00	2.830	2.806	0.024	0.822	238991	0.9880	79.0	2160	
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.895	803786	0.7488	63.3	4036	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.091	3.069	0.022	1.004	3779	0.005065	Target=3.18	7.6		RM
399.00 > 99.00	3.103	3.069	0.034	1.007	2729		1.38(1.59-4.77)	2.6		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1494309	1.07		85.5	10459	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.091	3.069	0.022	1.000	9543	0.007496	Target=4.10	2.1		M
363.00 > 169.00	3.091	3.069	0.022	1.000	2689		3.55(2.05-6.16)	10.6		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	155498	0.9190		77.4	402	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.434	3.417	0.017	1.000	1013	0.003378		2.0		M
16 Perfluoroheptanesulfonic acid										R
449.00 > 80.00	3.416	3.417	-0.001	0.910	445	0.000626	Target=4.59	1.4		R
449.00 > 99.00	3.372	3.417	-0.045	0.898	450		0.99(2.30-6.89)	1.6		
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1441553	0.9733		77.9	8028	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1807288	1.25			5751	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.443	3.426	0.017	1.000	19941	0.0159	Target=2.71	1.4		M
413.00 > 169.00	3.434	3.426	0.008	0.997	4978		4.01(1.36-4.07)	14.7		M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	584028	0.8949		74.9	2370	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.763	3.754	0.009	1.003	8780	0.0148	Target=4.23	6.1		RM
499.00 > 99.00	3.597	3.754	-0.157	0.958	9696		0.91(2.11-6.34)	25.0		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1584023	1.10		87.8	5625	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1637527	1.11		88.5	10013	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	195146	0.9206		76.9	1081	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.144	4.144	0.0	1.000	1010	0.001128		5.7		M
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1112428	0.9247		74.0	5062	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	346364	1.19		95.2	3305	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.236	4.226	0.010	1.003	1371	0.005488		3.5		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1346292	1.05		84.3	7413	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.357	4.358	-0.001	1.000	1607	0.006114		14.7		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	353602	1.26		101	888	

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	4.583	4.584	-0.001	1.331	1226164	0.9572		76.6	4973	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1060181	0.9622		77.0	5243	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.371	5.362	0.009	1.002	13081	-0.001251	Target=6.74		2.5	
813.00 > 169.00	5.360	5.362	-0.002	1.000	2113		6.19(3.37-10.11)		36.1	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1233003	0.9131		73.1	4559	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d

Injection Date: 26-Jan-2023 20:43:39

Instrument ID: LC812

Lims ID: 460-273105-A-1-A

Lab Sample ID: 200-273105-1

Client ID: BCS-09-48_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

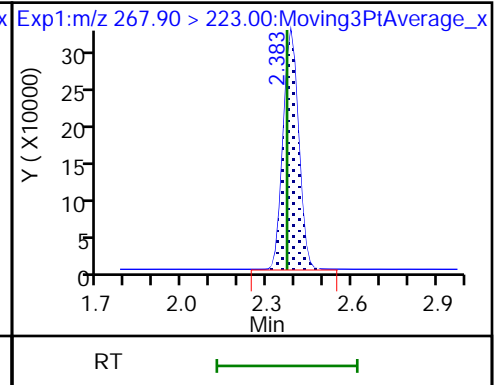
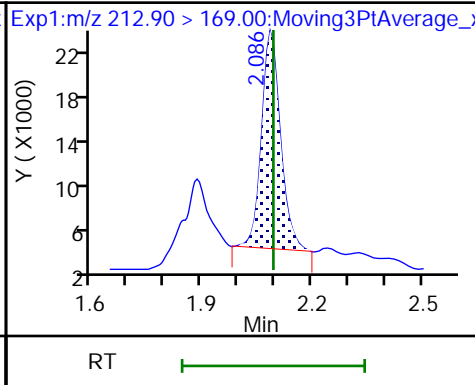
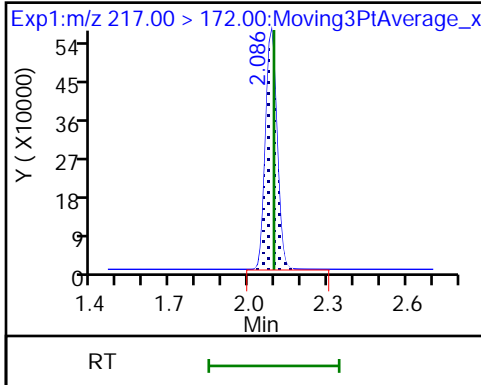
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

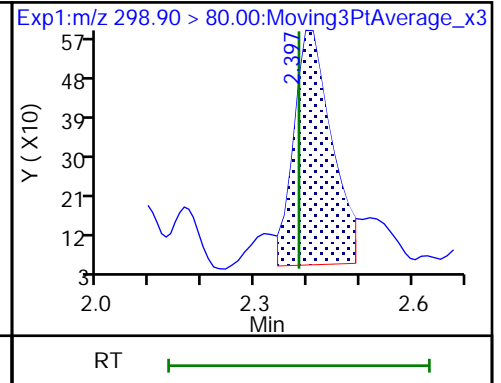
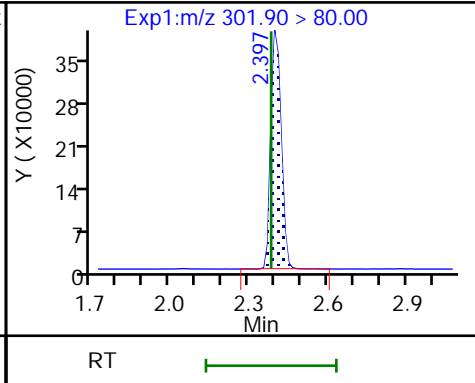
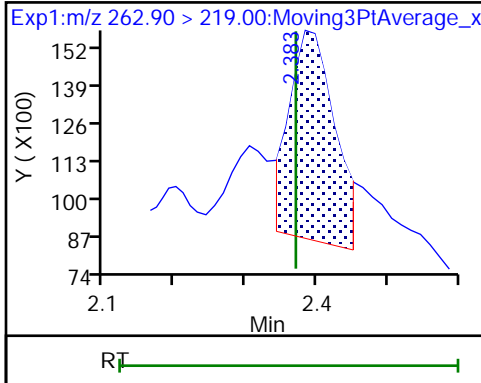
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

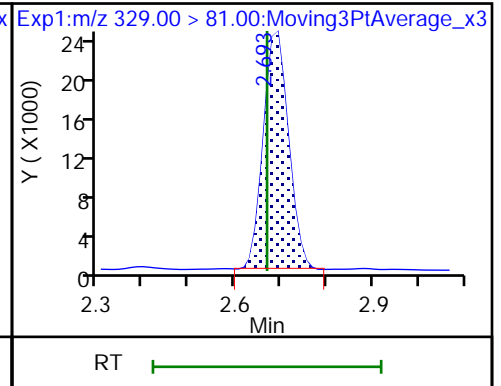
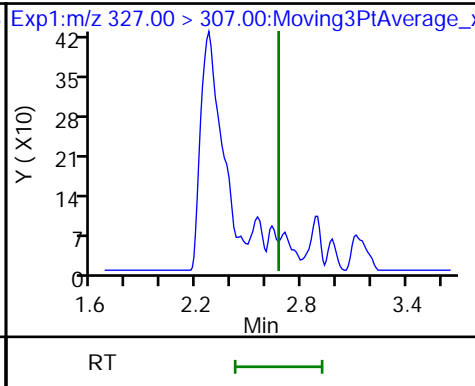
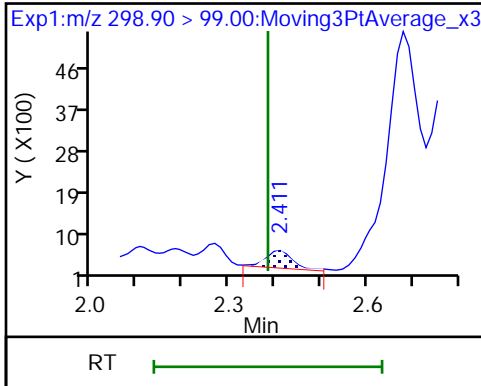
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

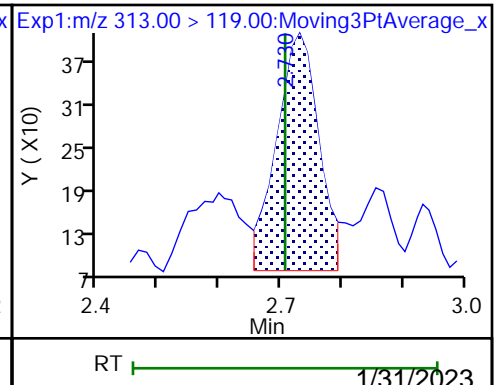
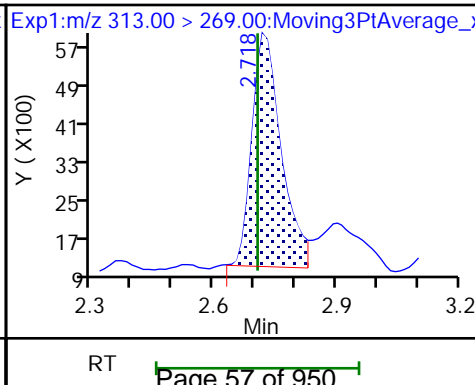
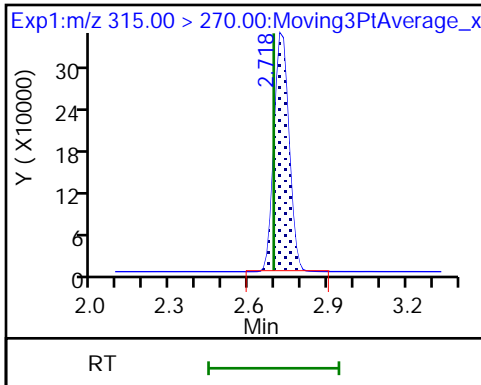
61 1H,1H,2H,2H-perfluorohexanesulfonic acid (M) M2-4:2 FTS



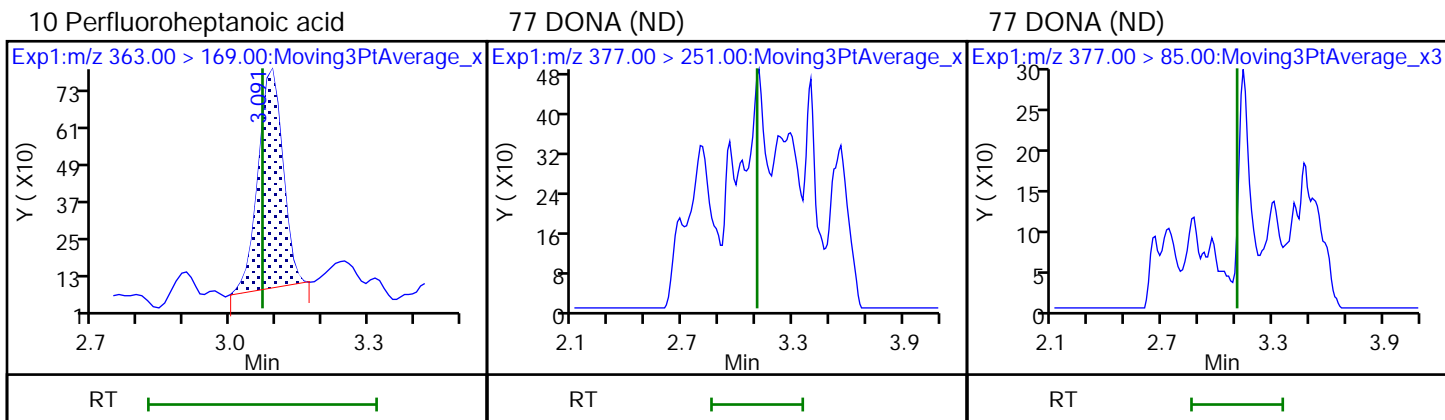
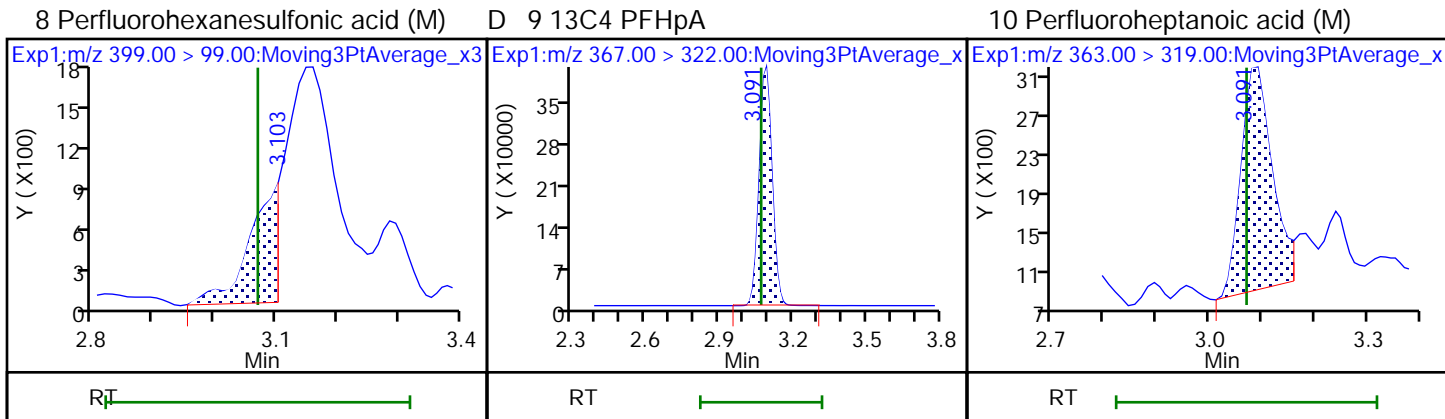
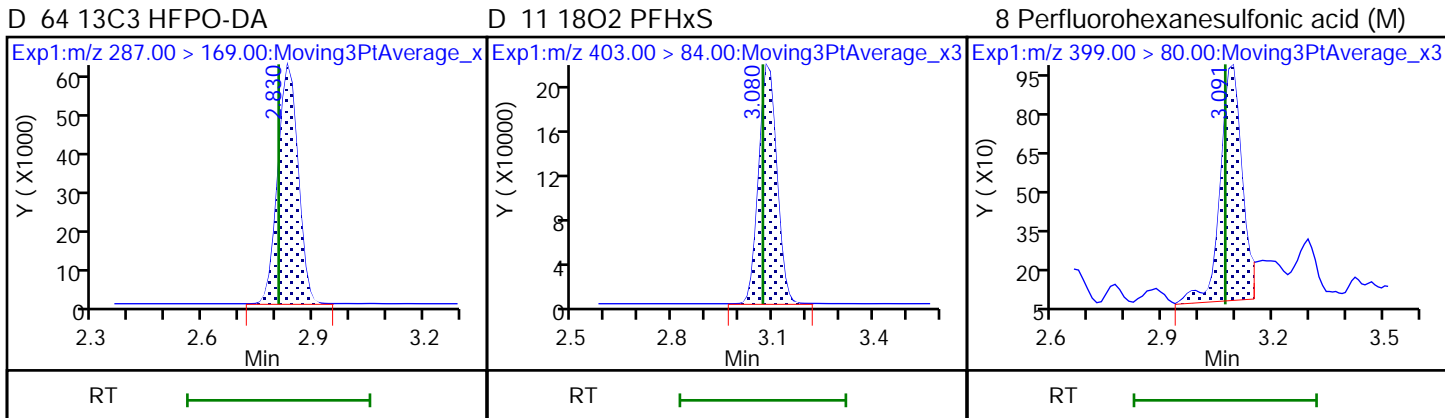
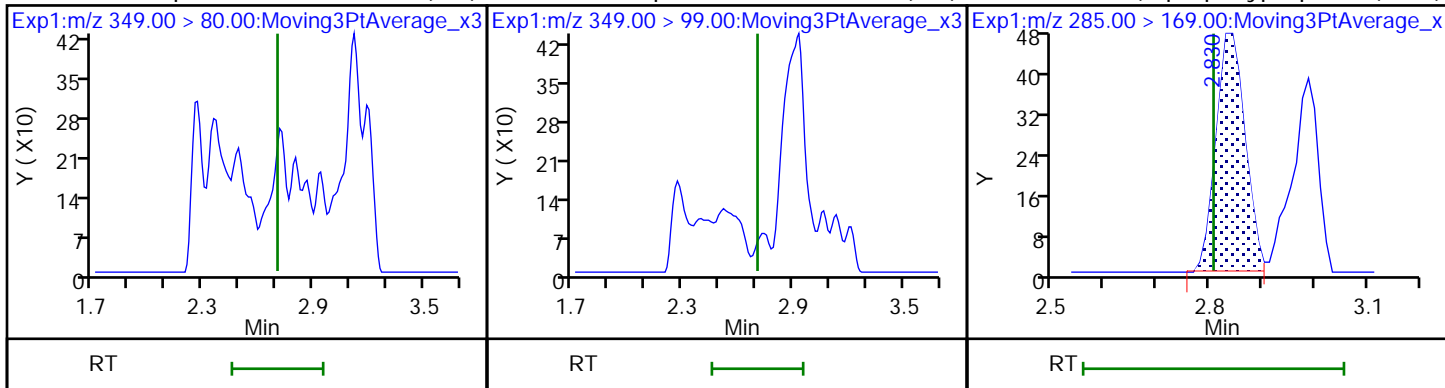
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

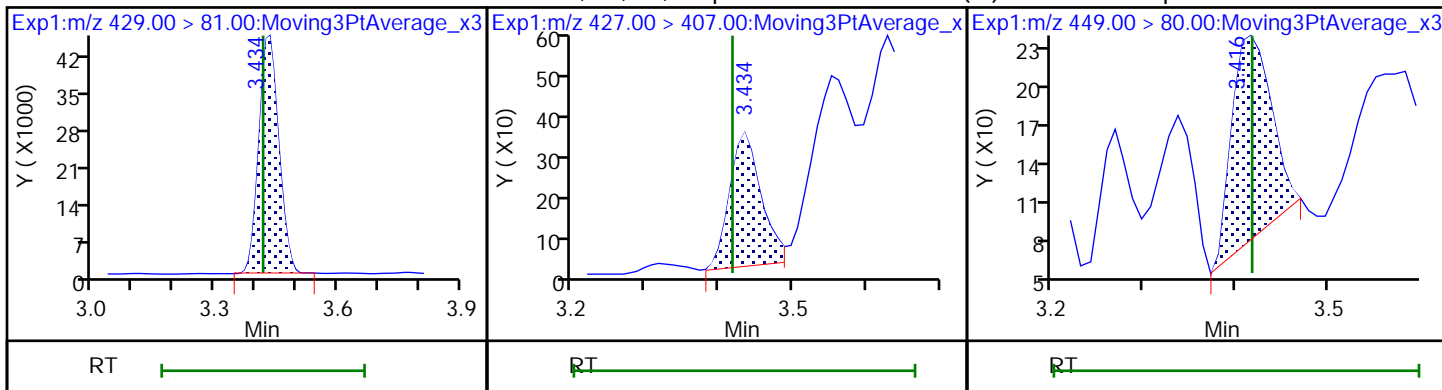


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 12 M2-6:2 FTS

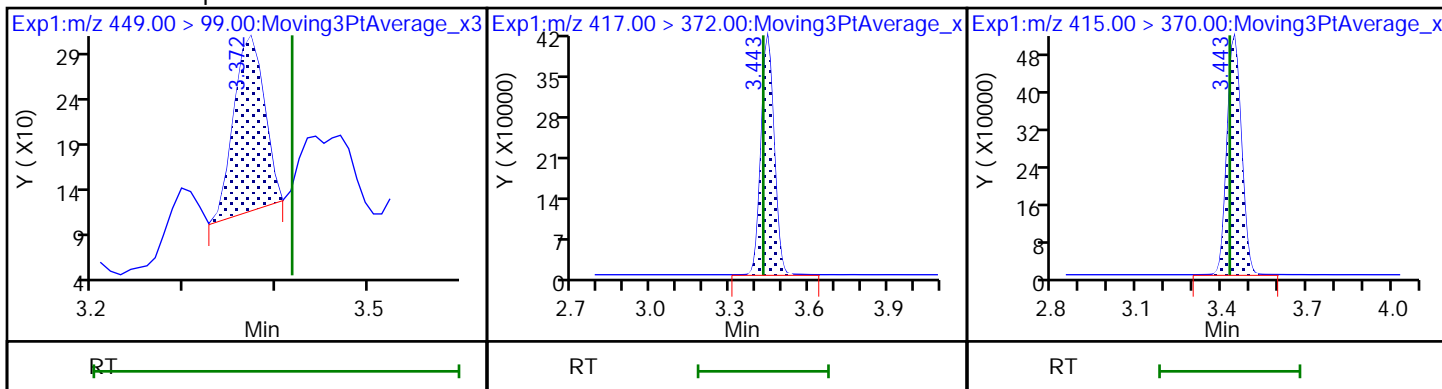
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

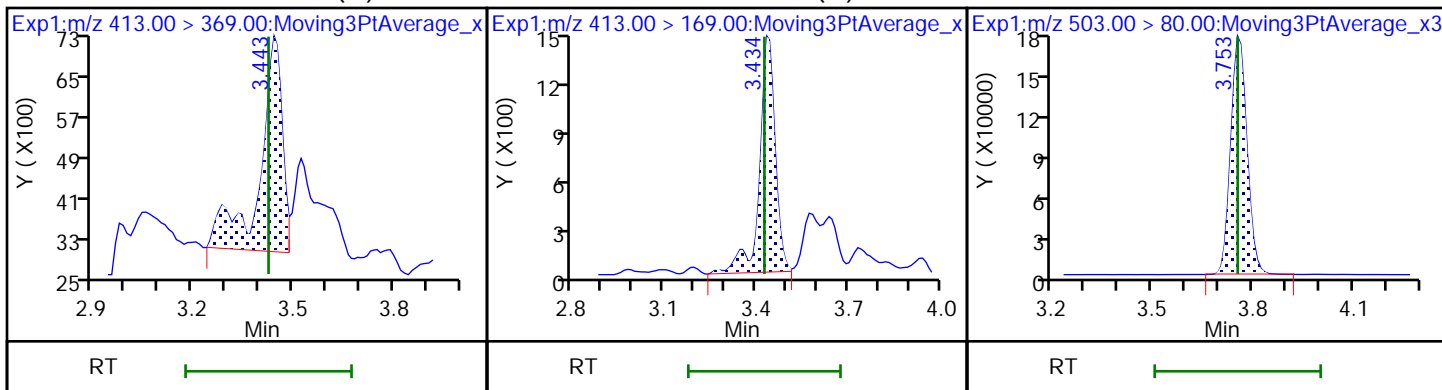
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

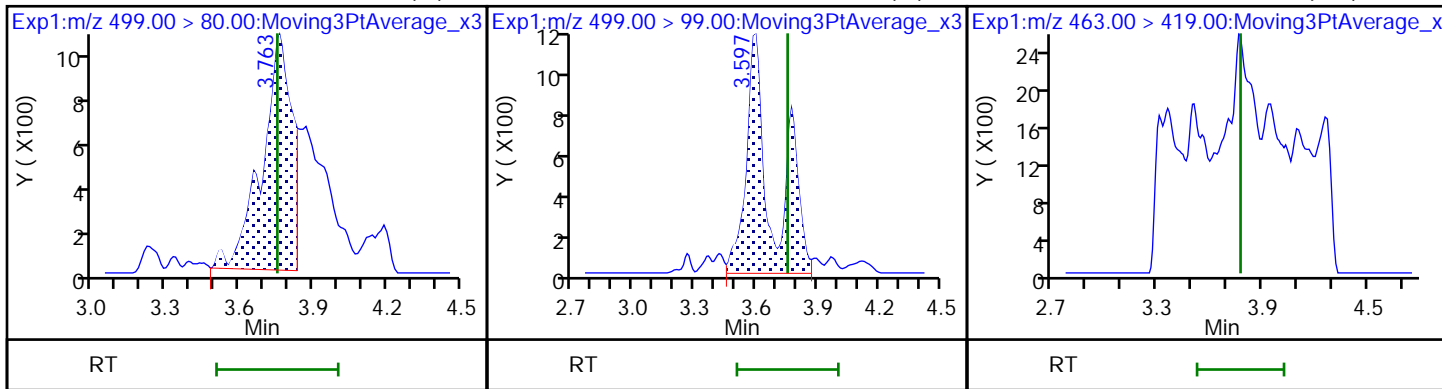
D 18 13C4 PFOS

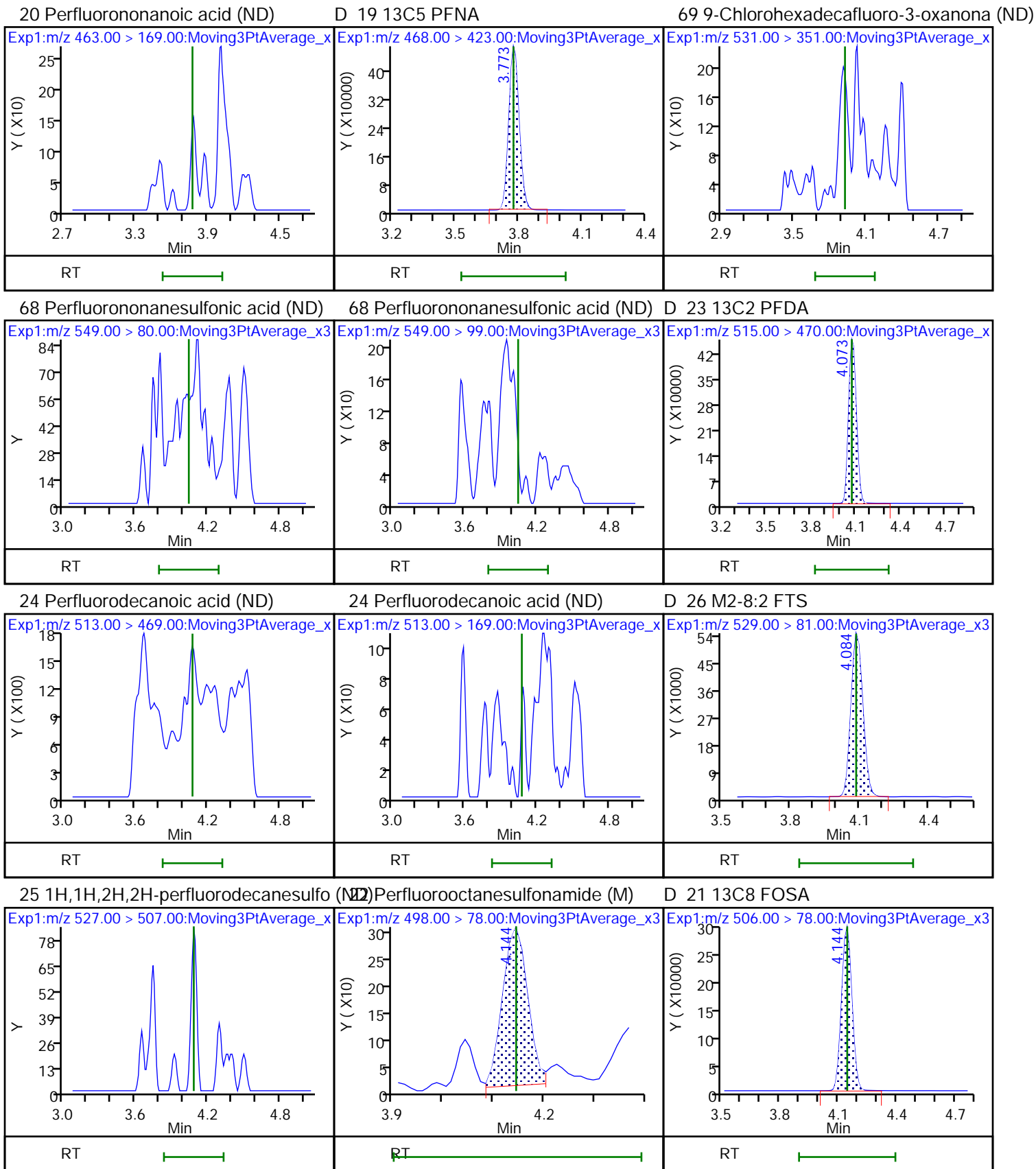


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

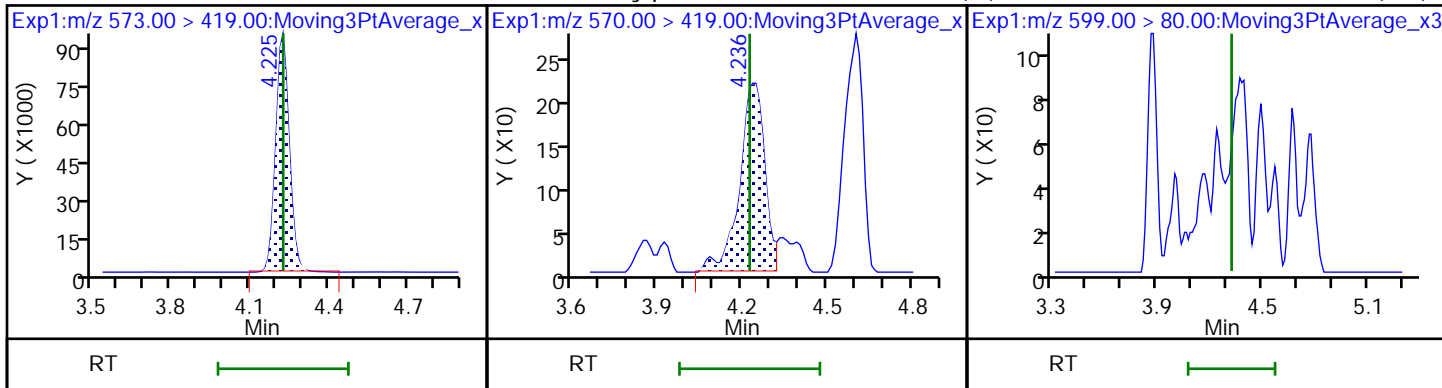
20 Perfluorononanoic acid (ND)





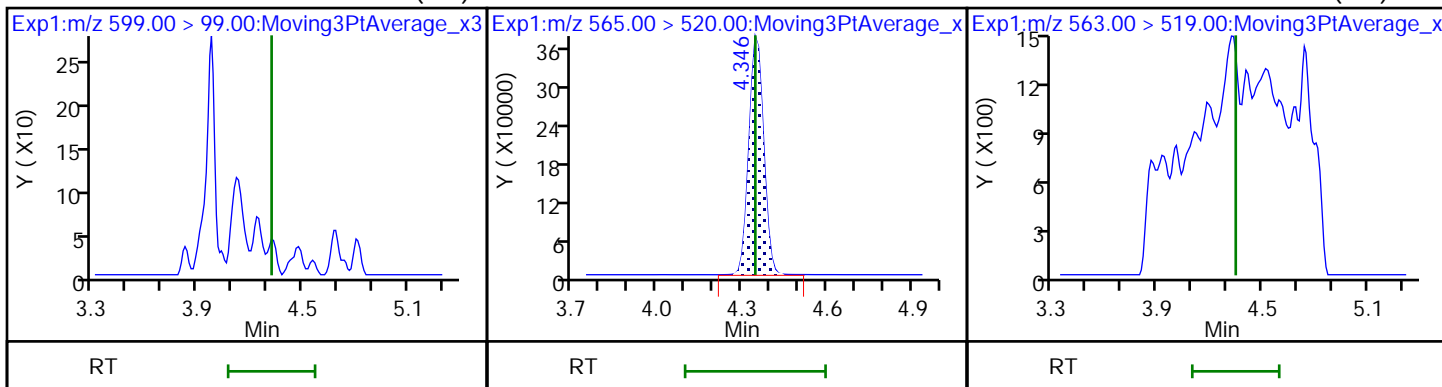
D 27 d3-NMeFOSAA

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



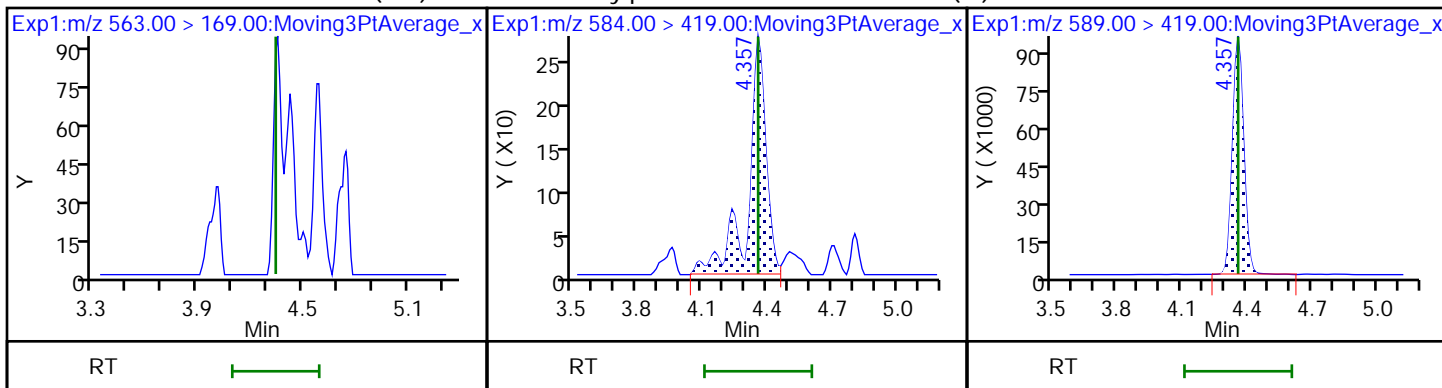
29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (ND)



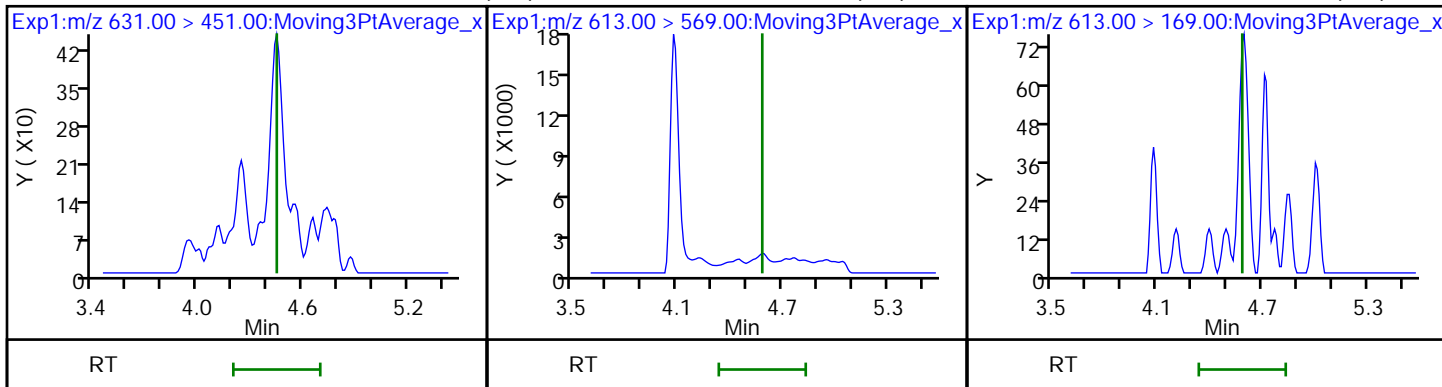
31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



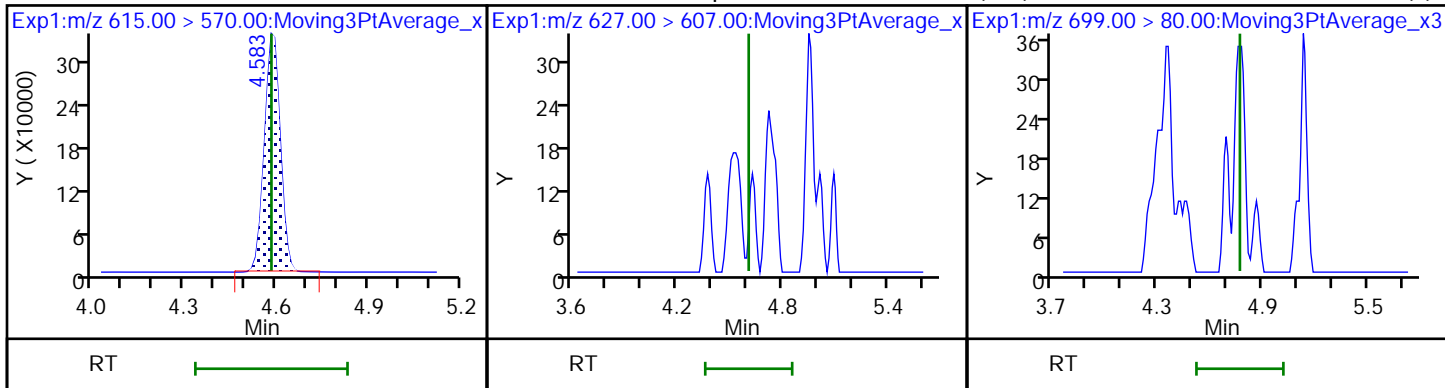
66 11-Chloroeicosafuoro-3-oxaundec (N) 37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)



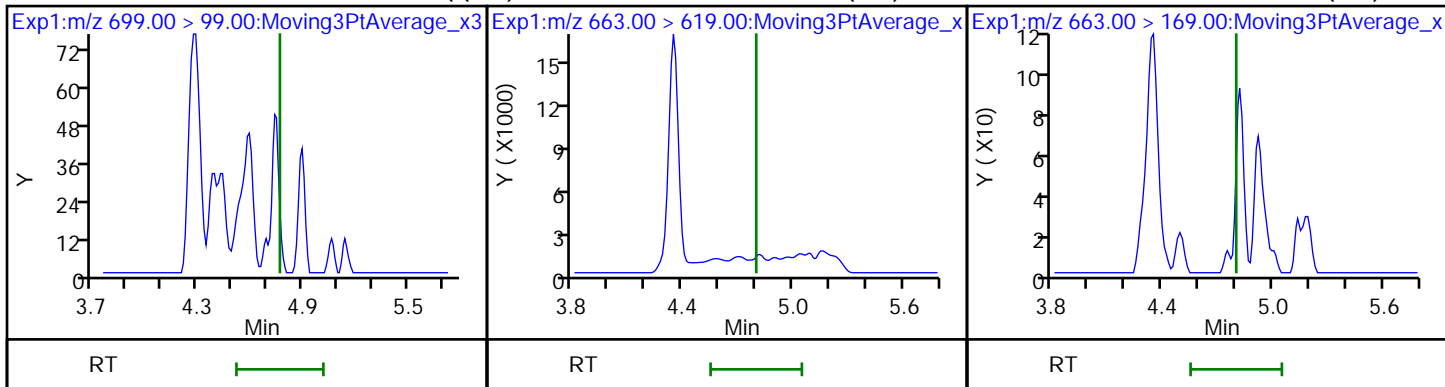
D 36 13C2 PFDoA

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



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

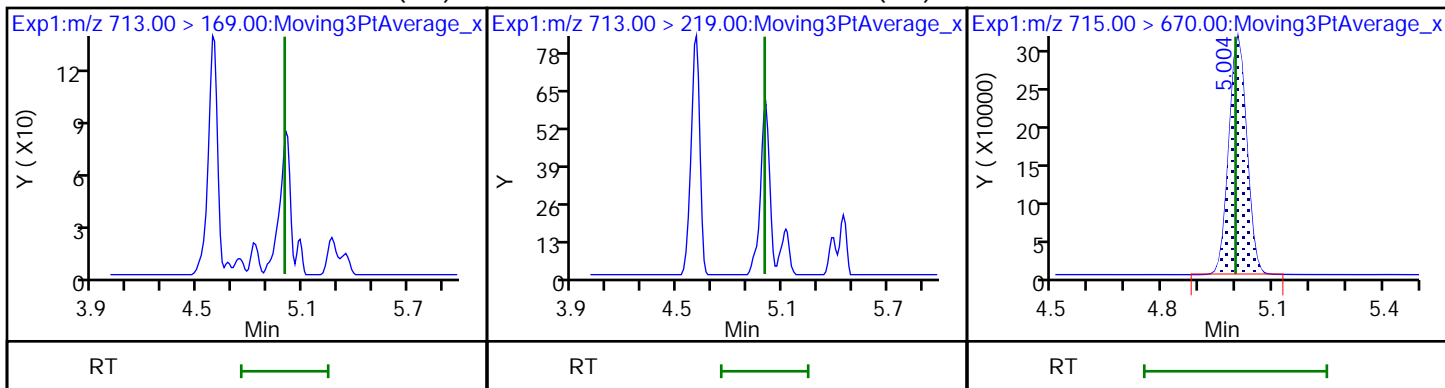
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)

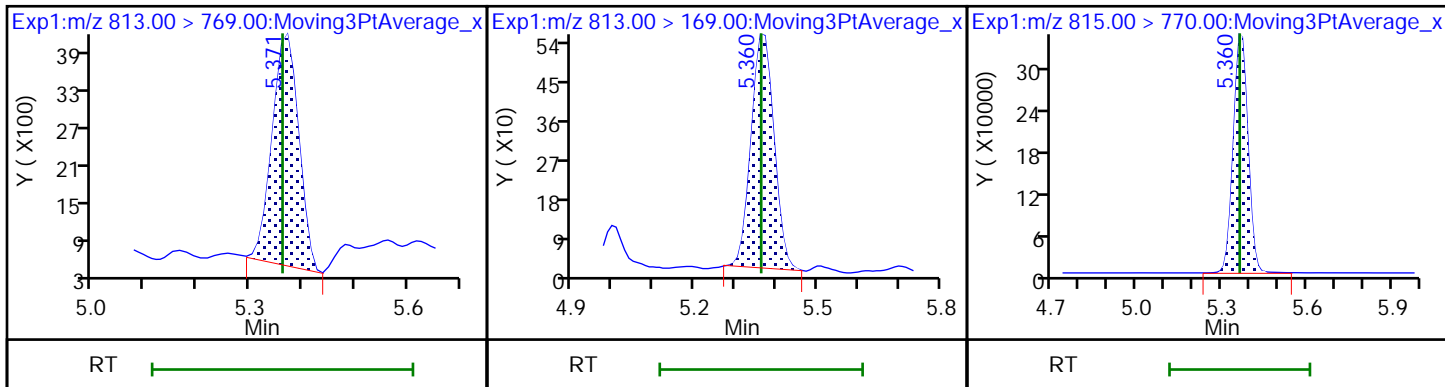
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

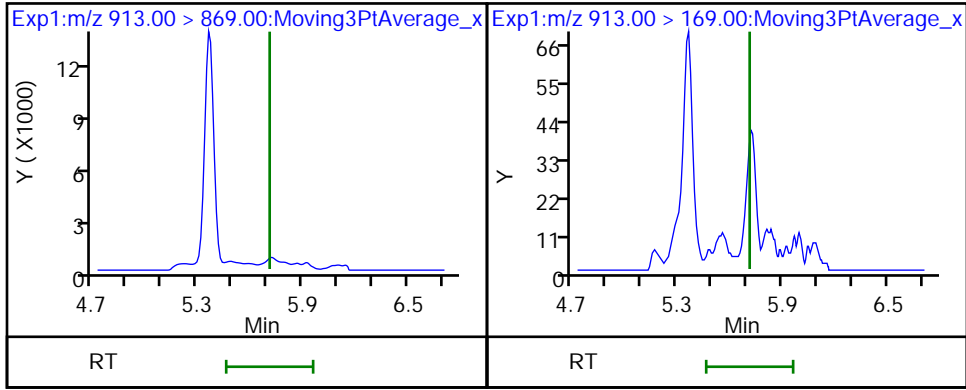
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

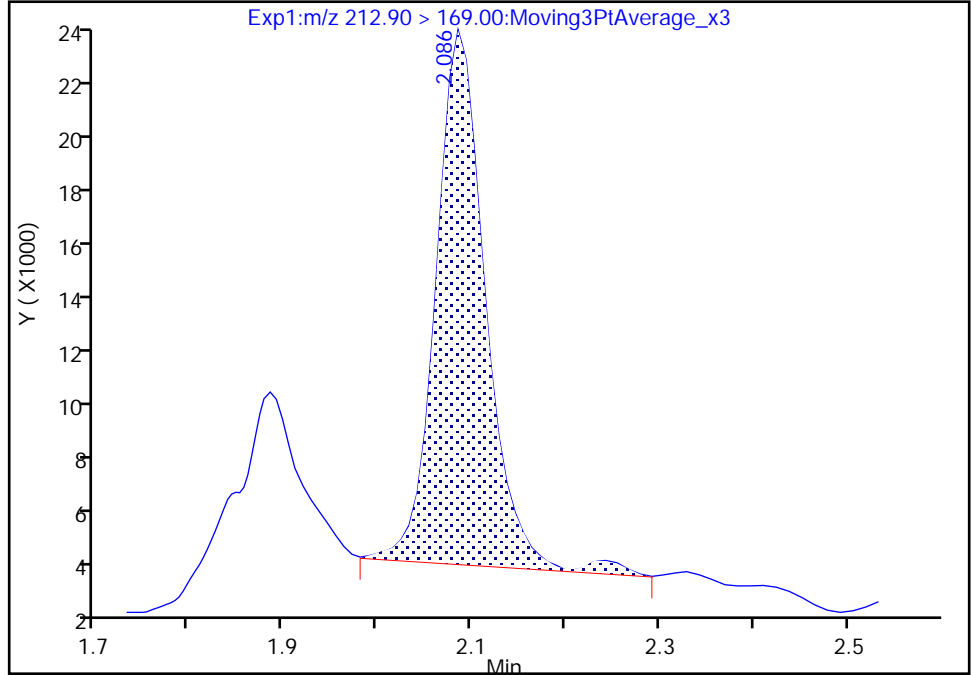
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Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

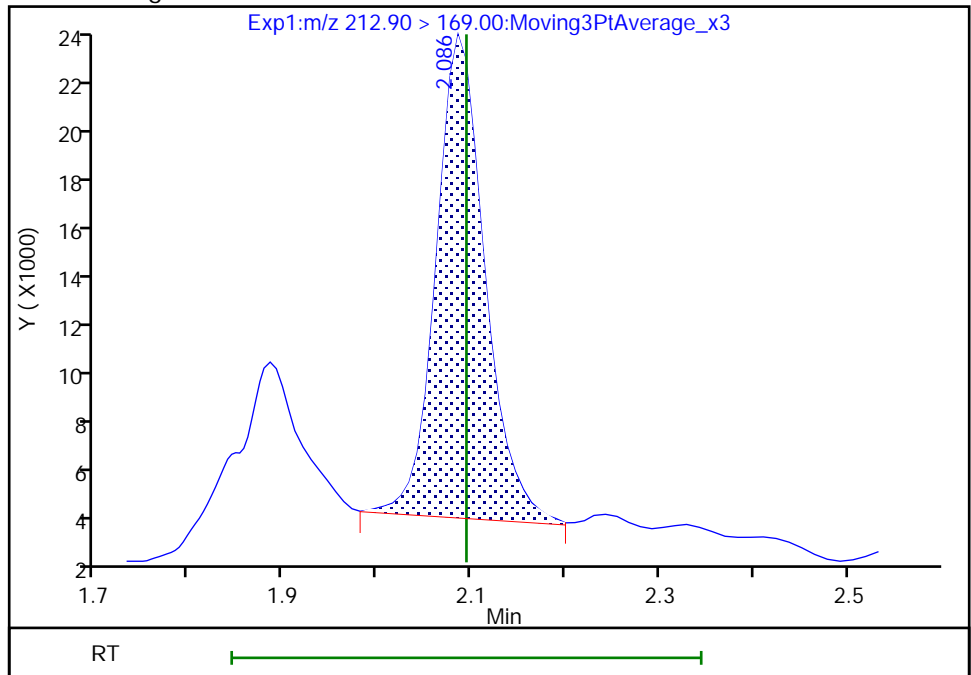
RT: 2.09
Area: 68548
Amount: 0.009481
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 67408
Amount: 0.008601
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:08:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

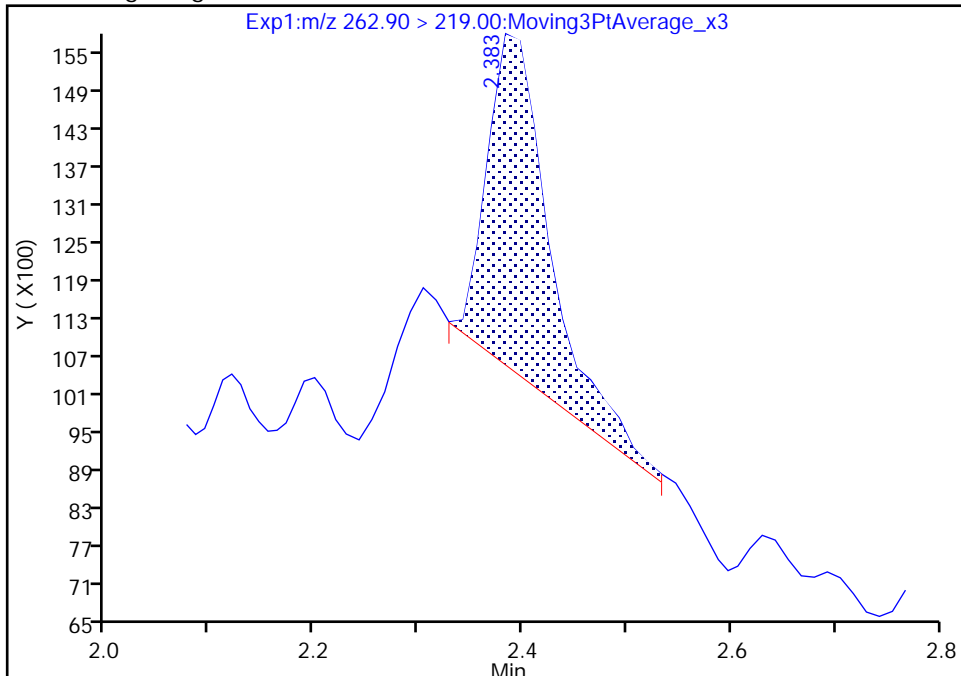
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

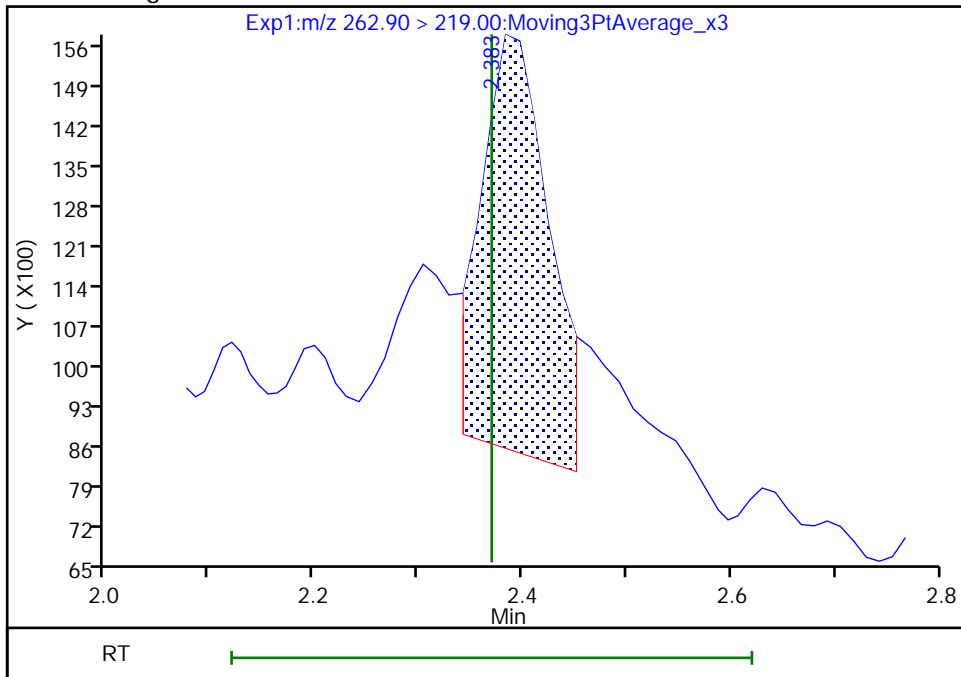
RT: 2.38
Area: 22205
Amount: 0.019428
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 32389
Amount: 0.028338
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:08:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

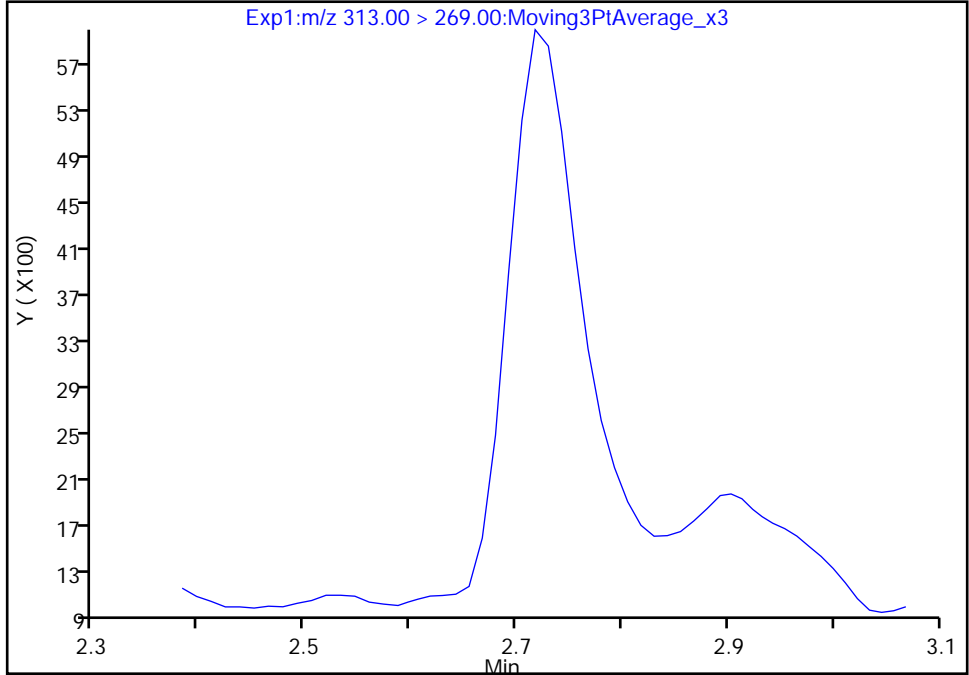
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Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

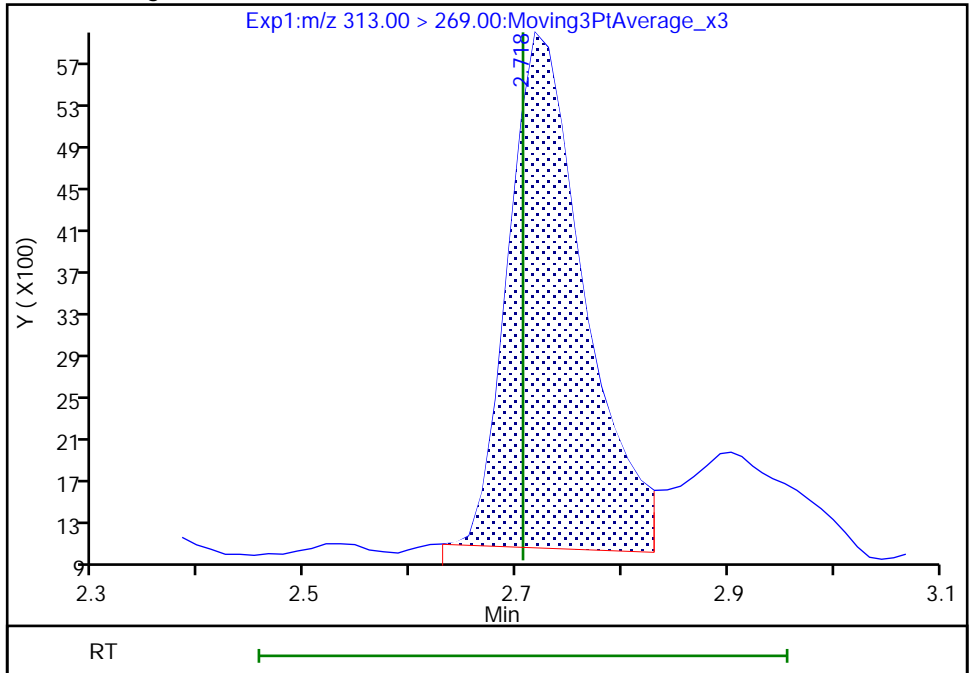
Not Detected
Expected RT: 2.71

Processing Integration Results



RT: 2.72
Area: 24251
Amount: 0.021332
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:09:51
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

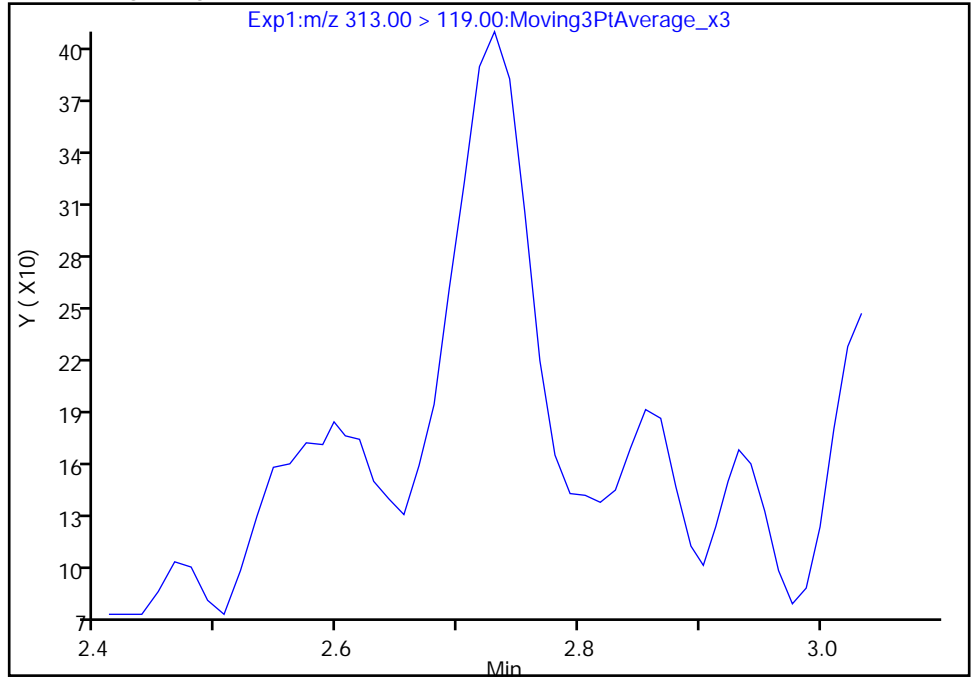
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

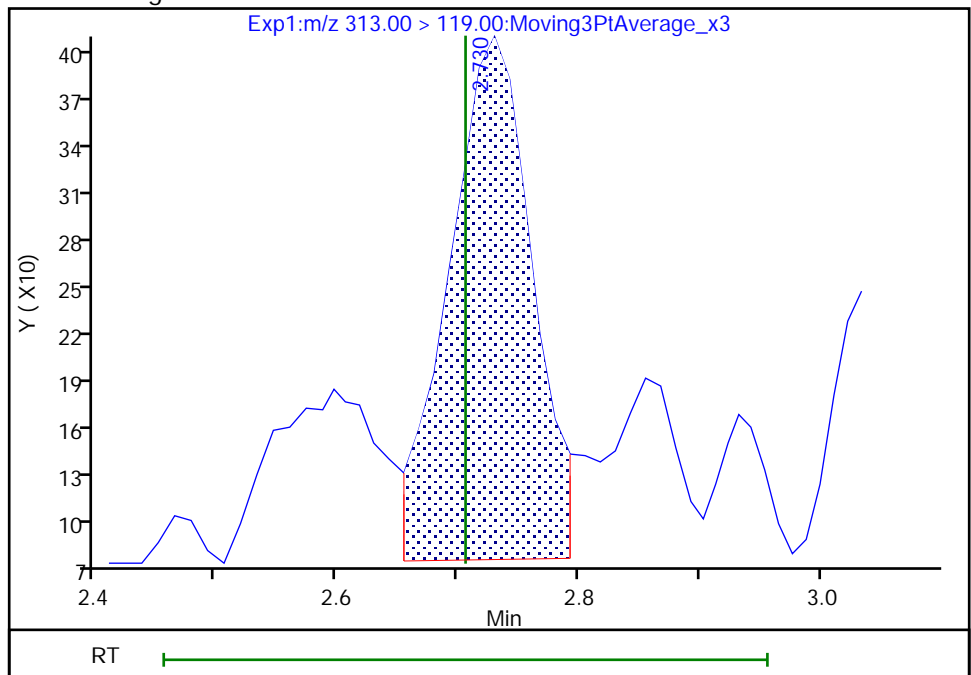
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 1574
Amount: 0.021332
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:09:55

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

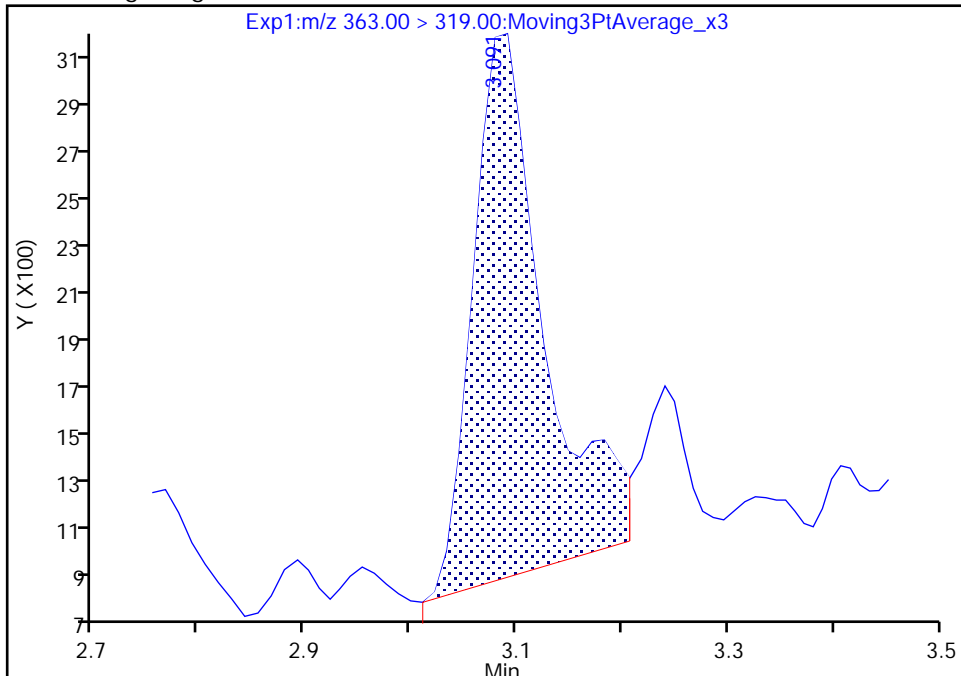
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Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

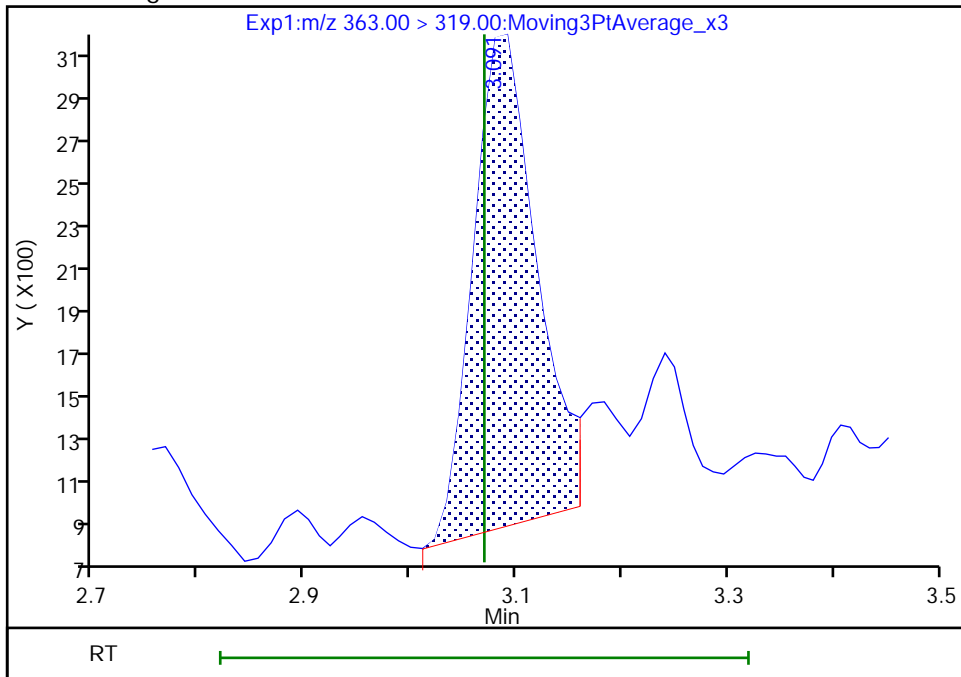
RT: 3.09
Area: 10670
Amount: 0.008381
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 9543
Amount: 0.007496
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:10:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

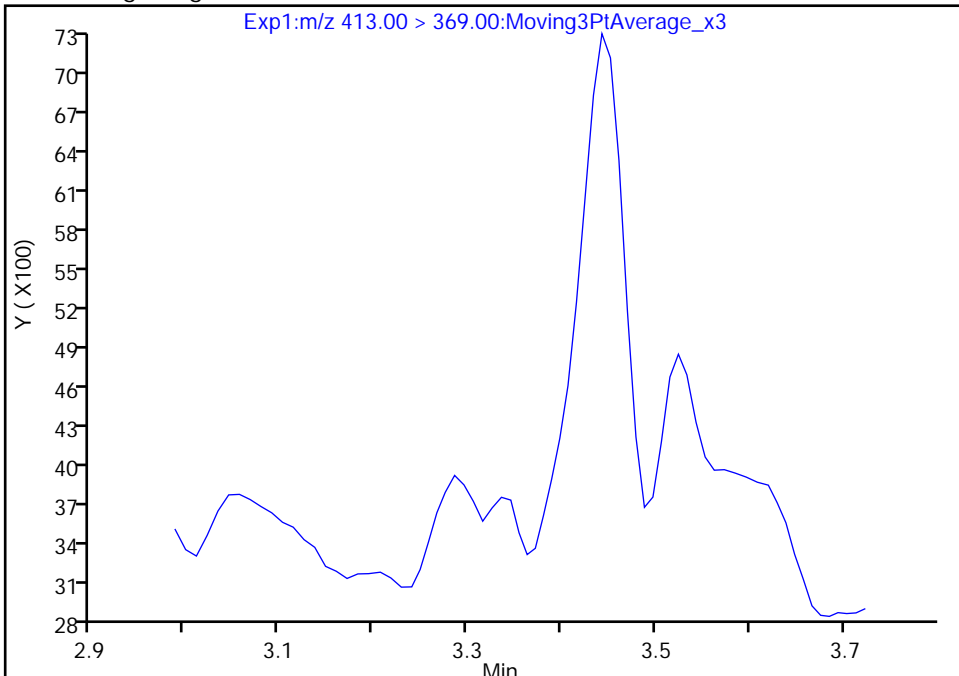
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Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

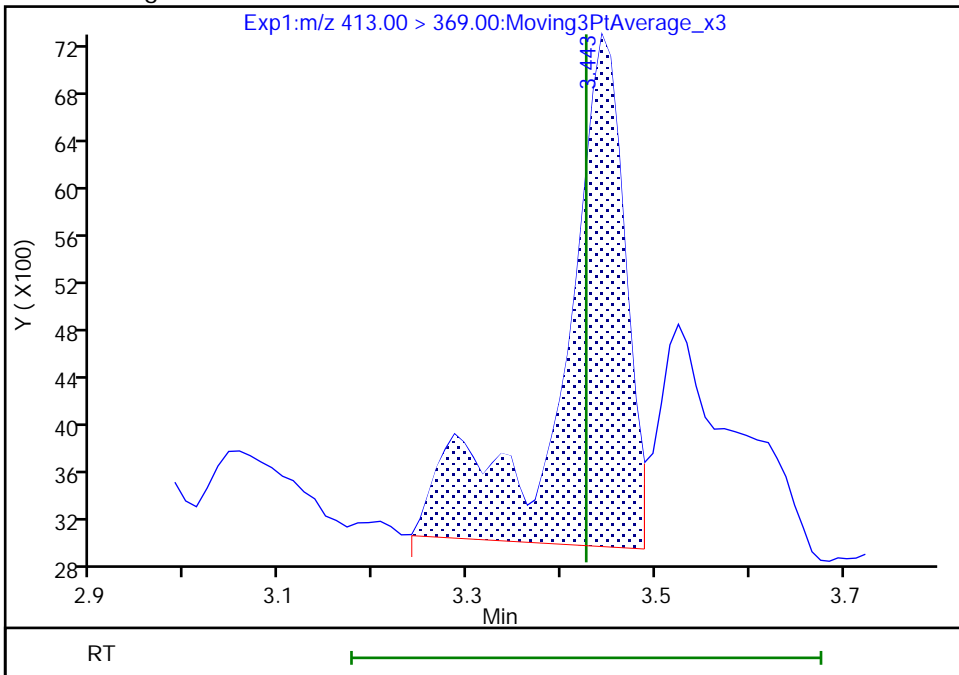
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 19941
Amount: 0.015889
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:11:31
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

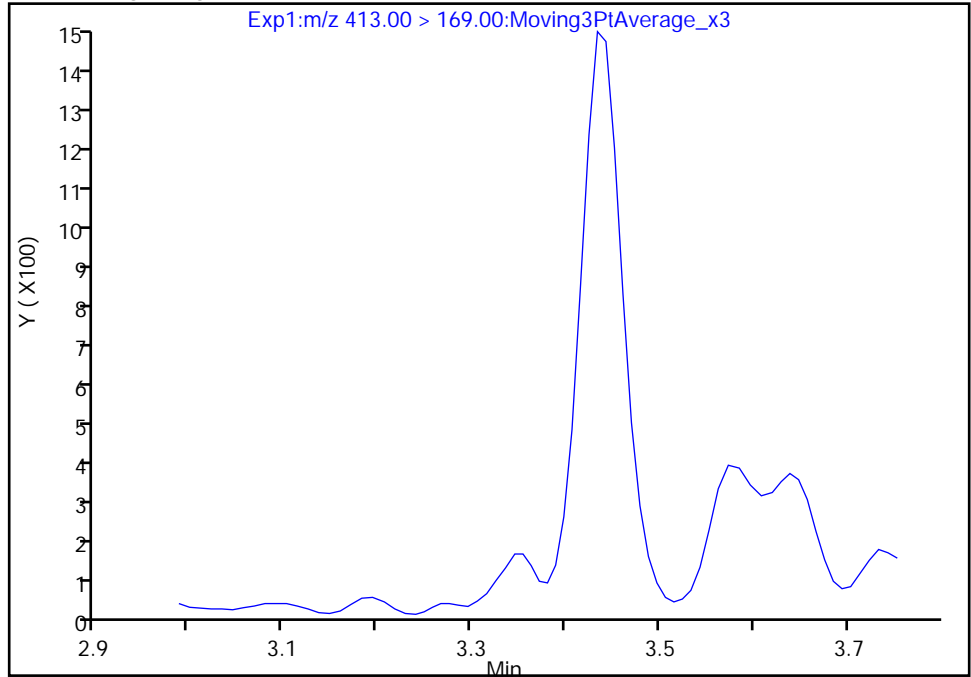
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

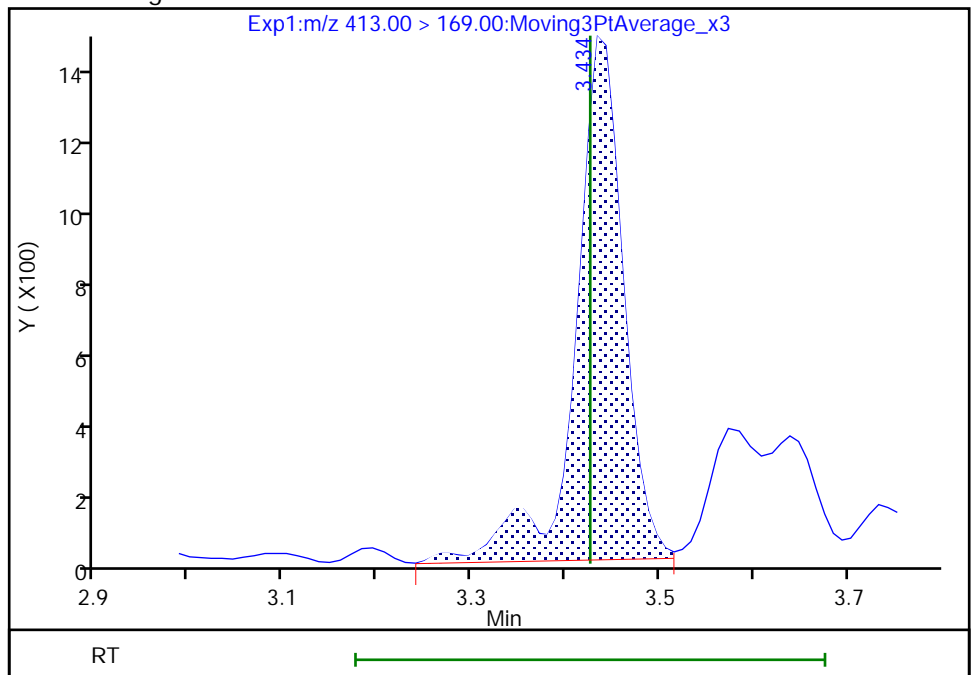
Not Detected
Expected RT: 3.43

Processing Integration Results



RT: 3.43
Area: 4978
Amount: 0.015889
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:11:34
Audit Action: Manually Integrated

Eurofins Burlington

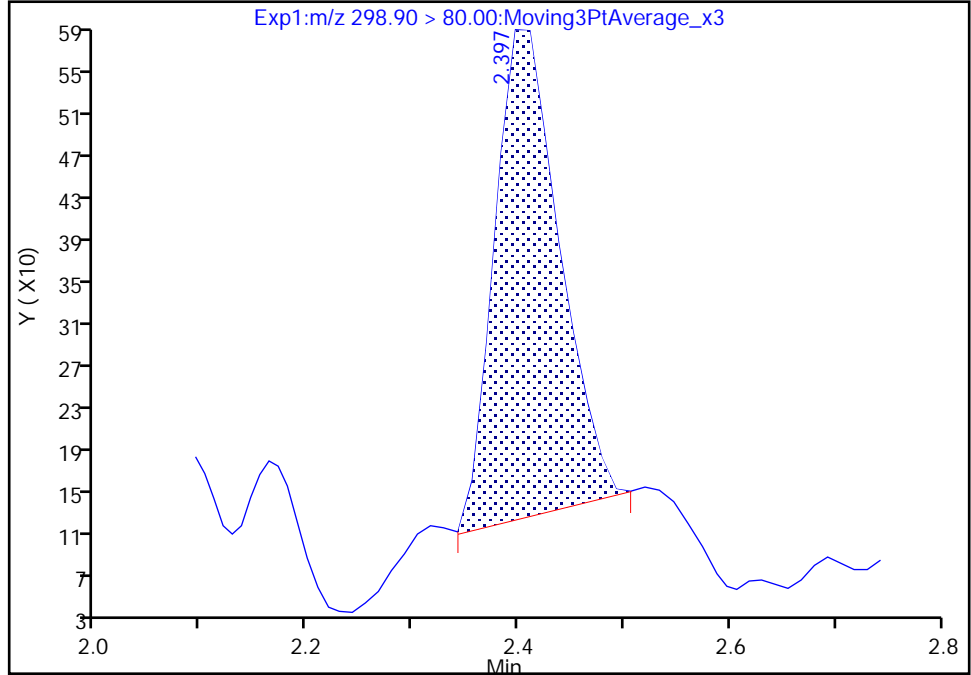
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

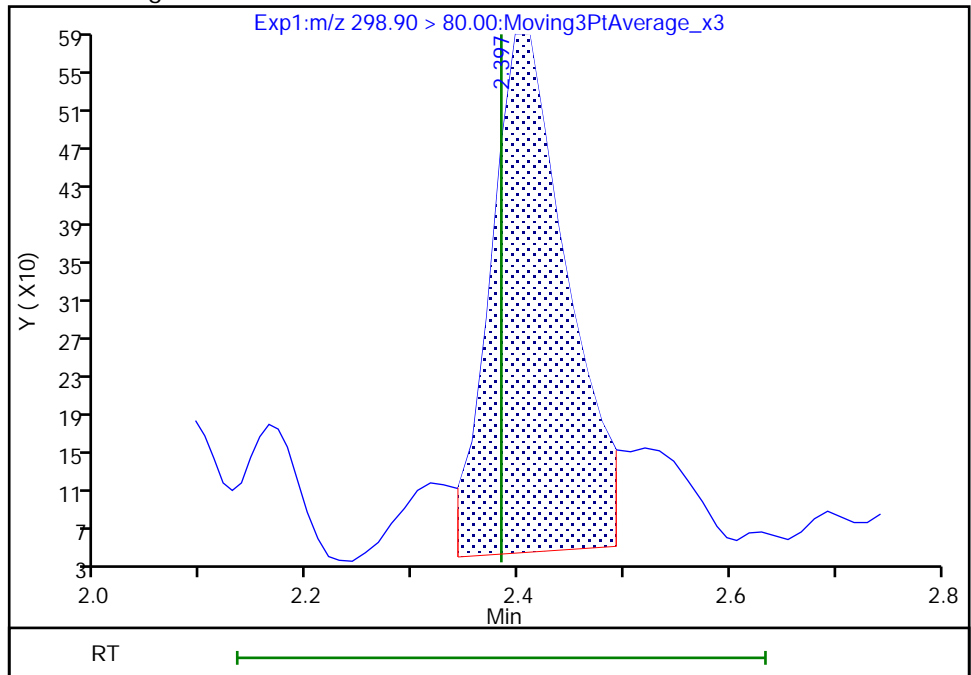
RT: 2.40
Area: 1996
Amount: 0.002008
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2747
Amount: 0.002763
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:09:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

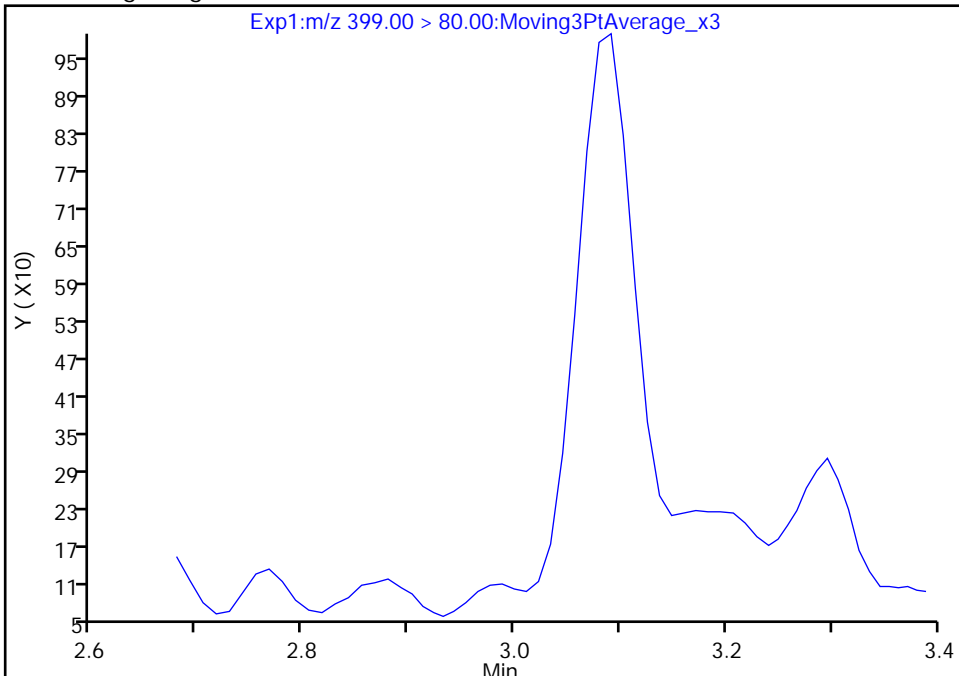
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

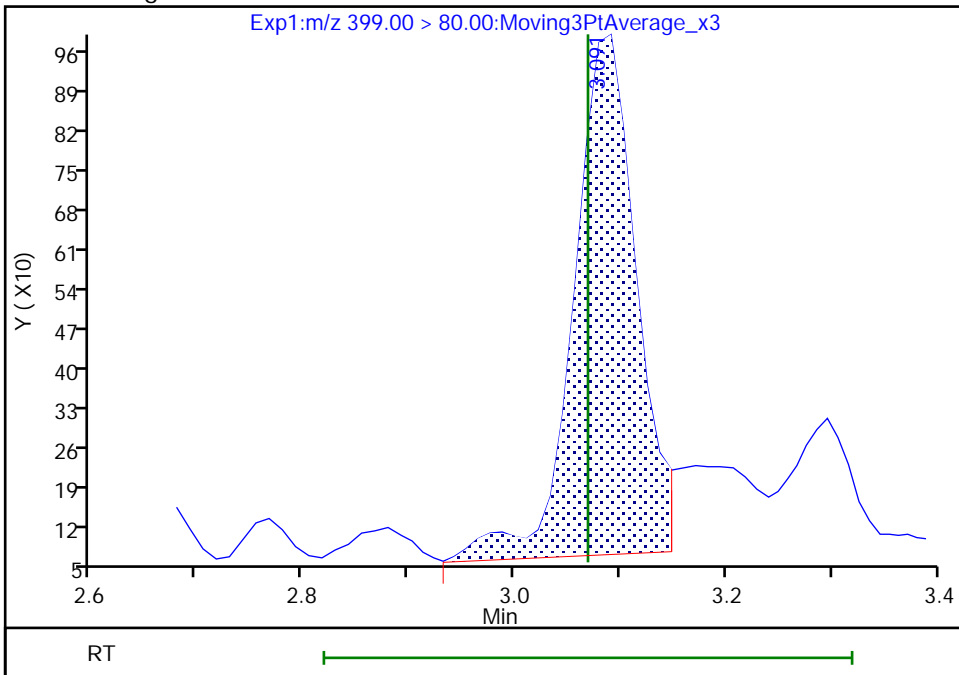
Processing Integration Results

Not Detected
Expected RT: 3.07



Manual Integration Results

RT: 3.09
Area: 3779
Amount: 0.005065
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:10:36
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

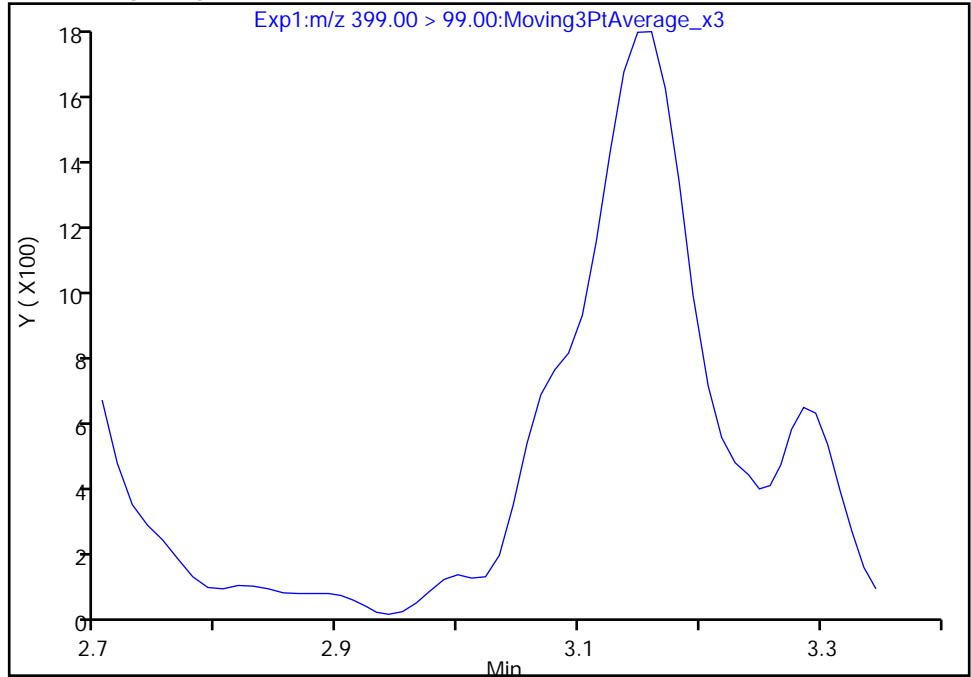
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

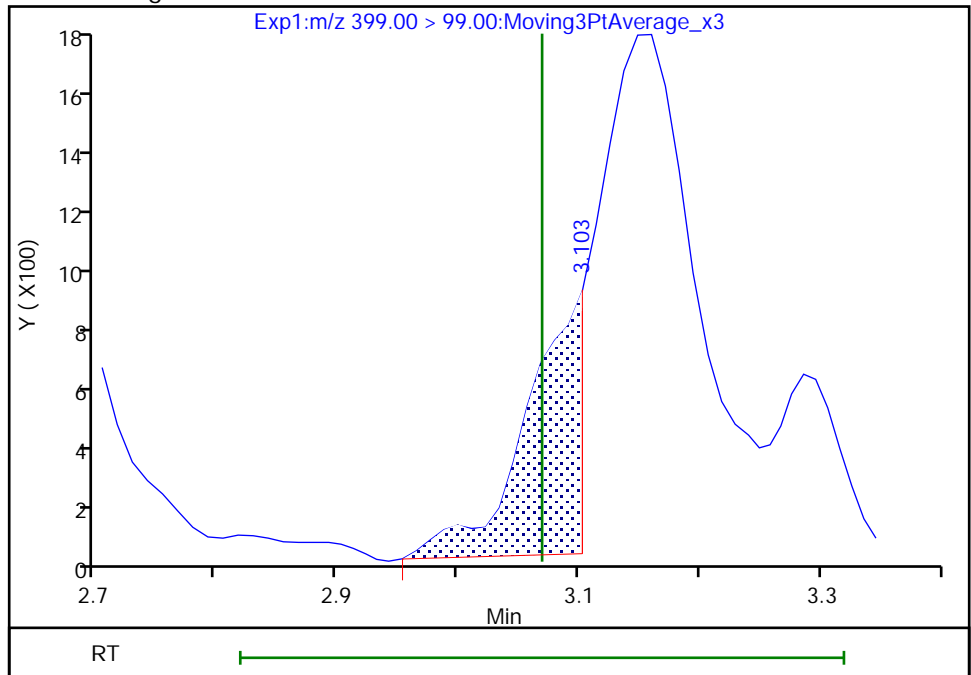
Not Detected
Expected RT: 3.07

Processing Integration Results



RT: 3.10
Area: 2729
Amount: 0.005065
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:10:42

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

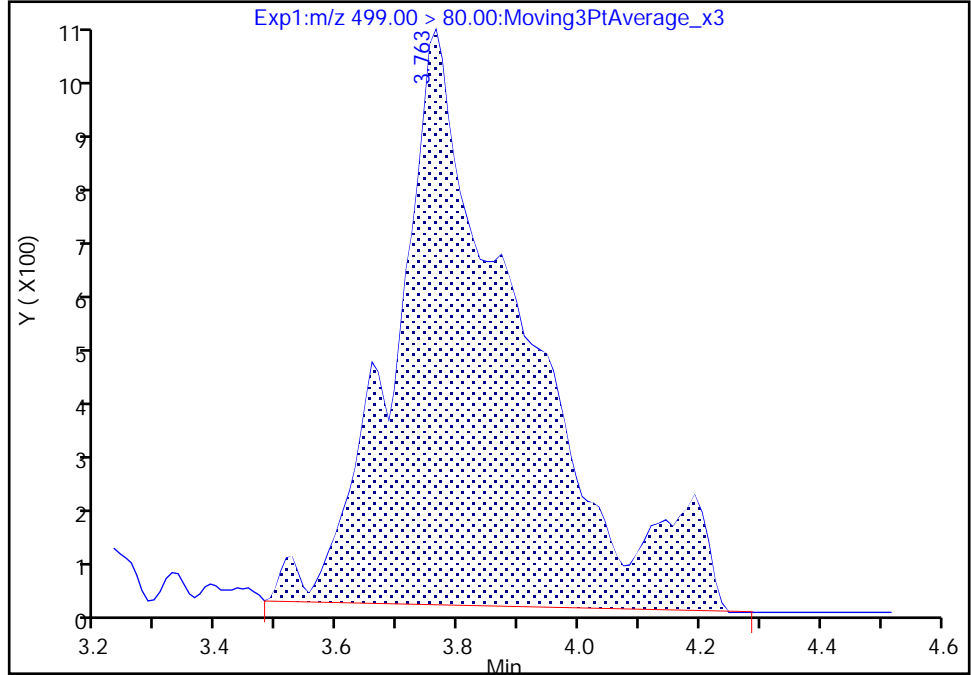
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

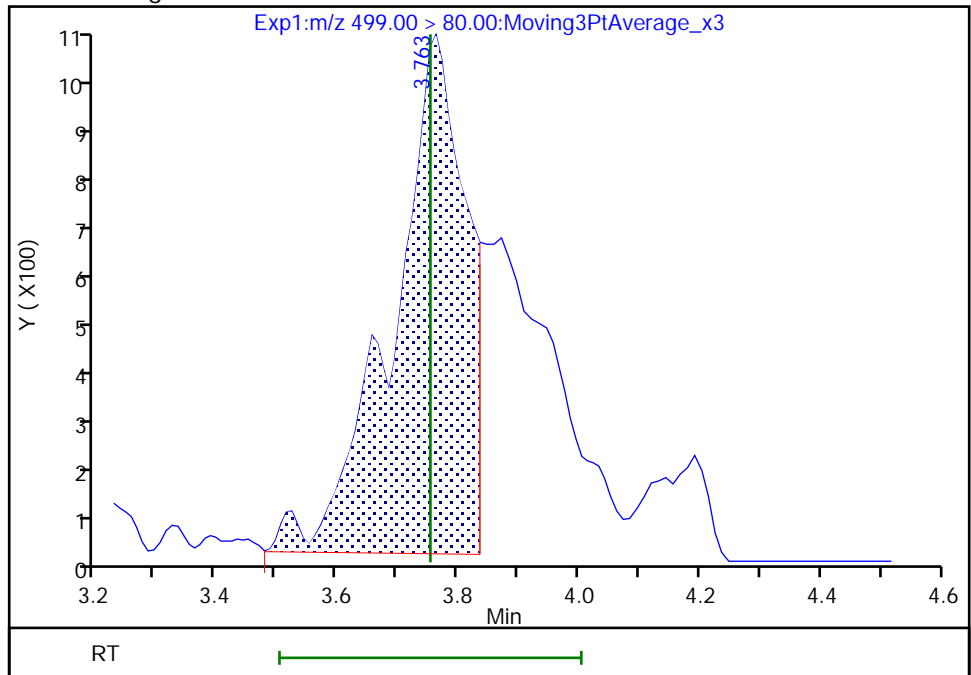
RT: 3.76
Area: 15718
Amount: 0.026474
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 8780
Amount: 0.014788
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:11:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

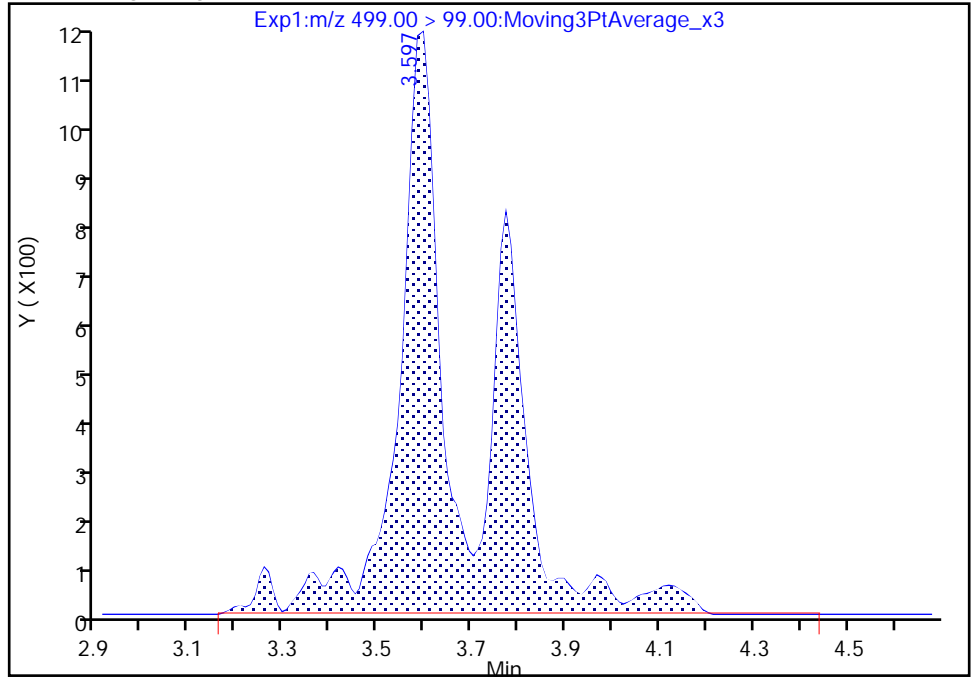
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

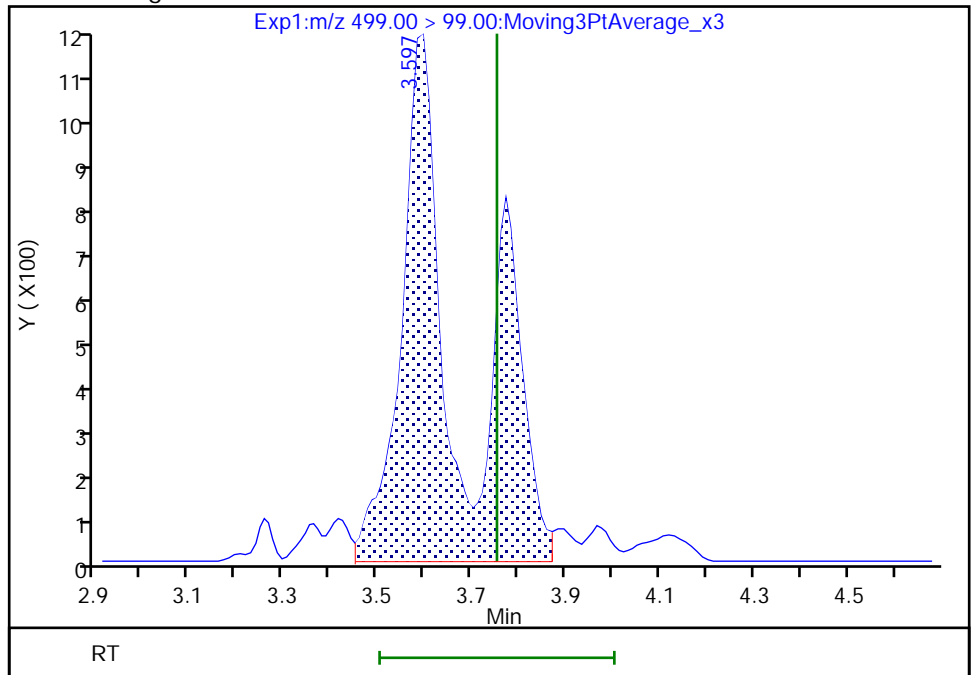
RT: 3.60
Area: 11340
Amount: 0.026474
Amount Units: ng/ml

Processing Integration Results



RT: 3.60
Area: 9696
Amount: 0.014788
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:11:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

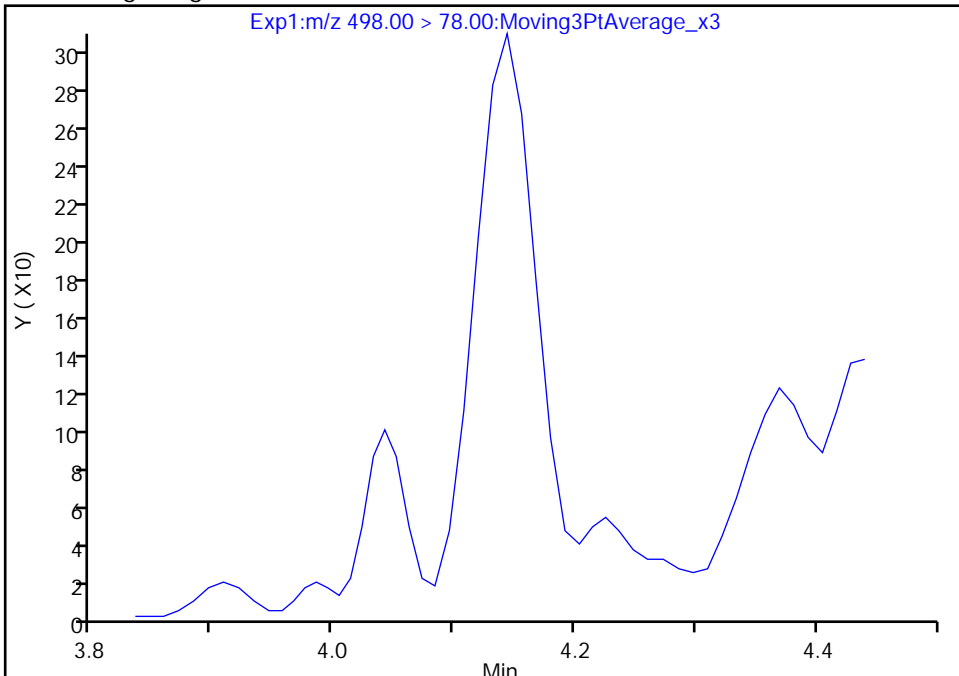
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

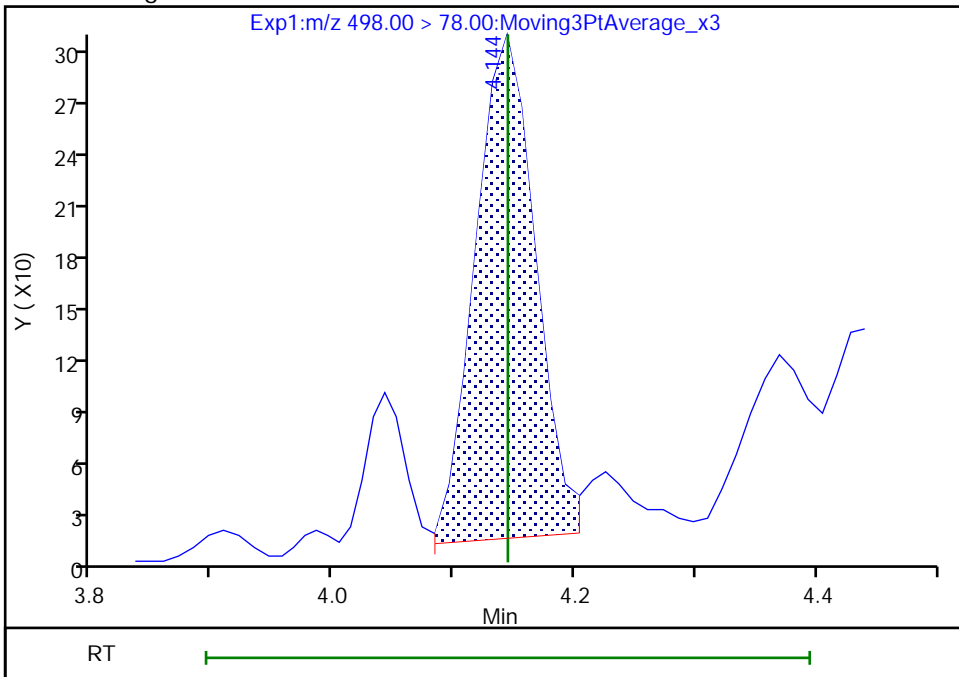
Signal: 1

Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.14
Area: 1010
Amount: 0.001128
Amount Units: ng/ml

Reviewer: SJ4N, 27-Jan-2023 13:12:31
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

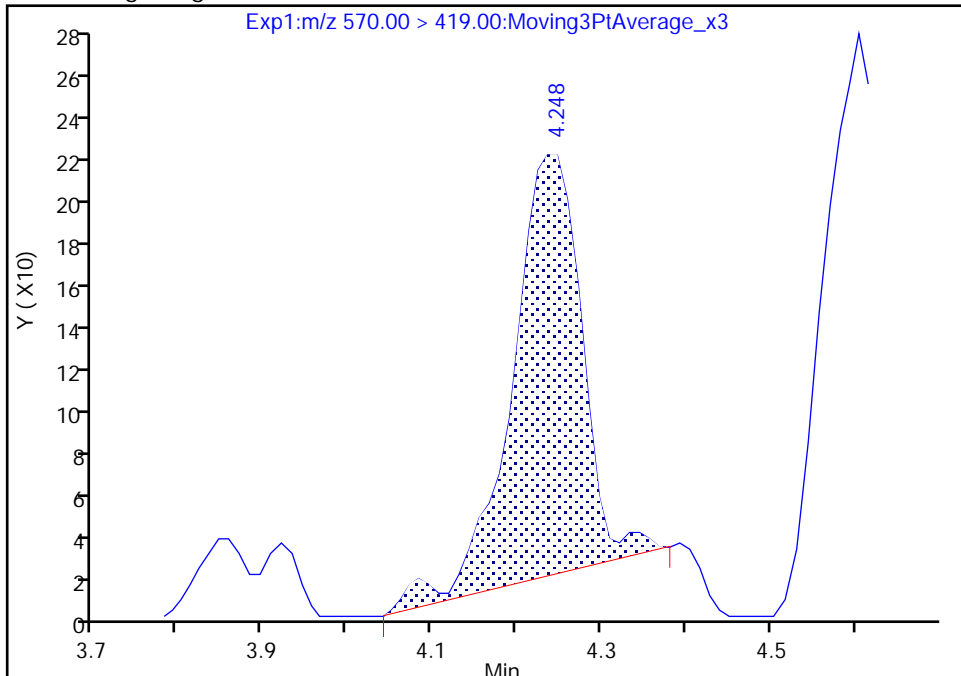
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

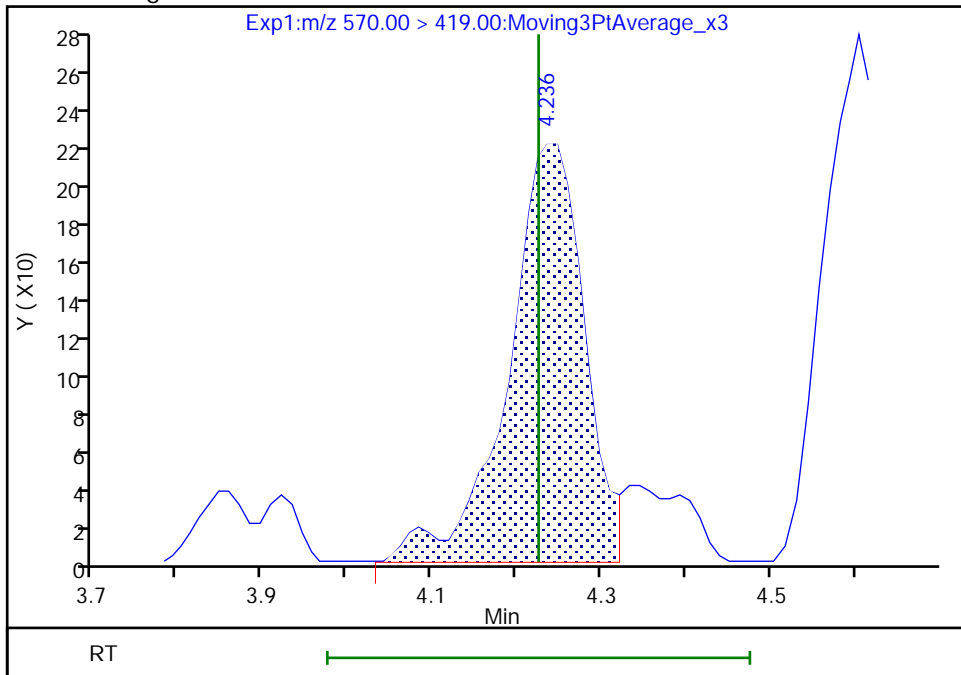
RT: 4.25
Area: 1167
Amount: 0.004671
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 1371
Amount: 0.005488
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:12:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

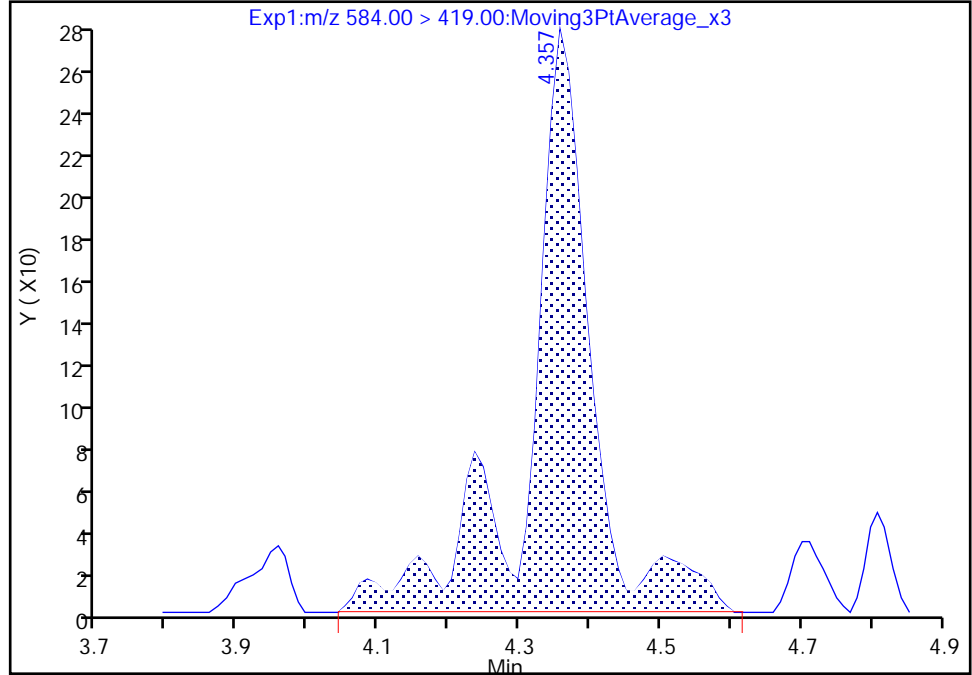
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d
Injection Date: 26-Jan-2023 20:43:39 Instrument ID: LC812
Lims ID: 460-273105-A-1-A Lab Sample ID: 200-273105-1
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul 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

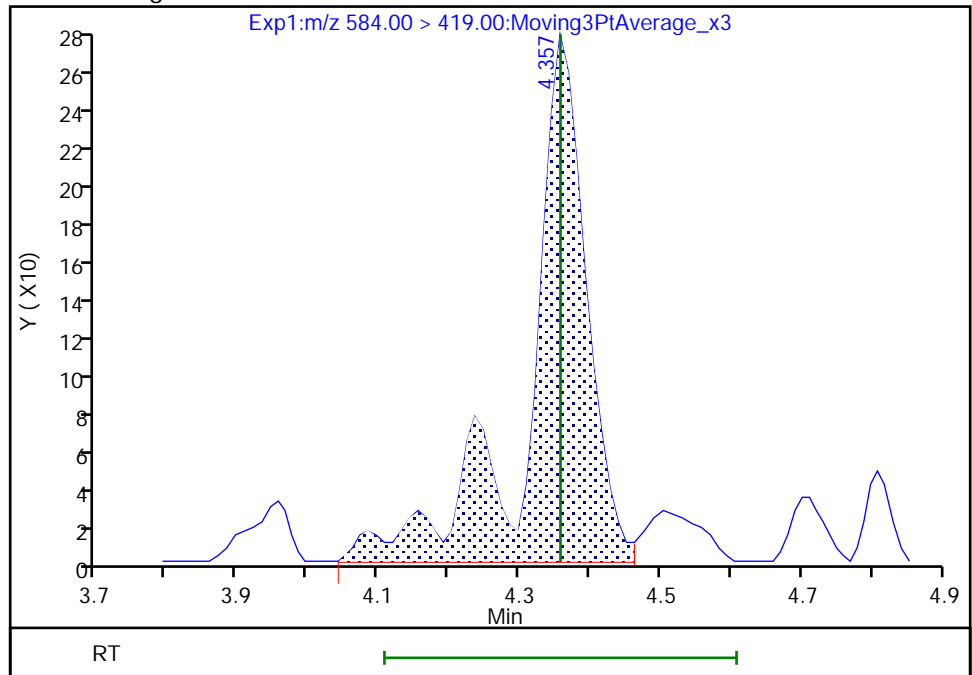
RT: 4.36
Area: 1751
Amount: 0.006662
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 1607
Amount: 0.006114
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:12:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

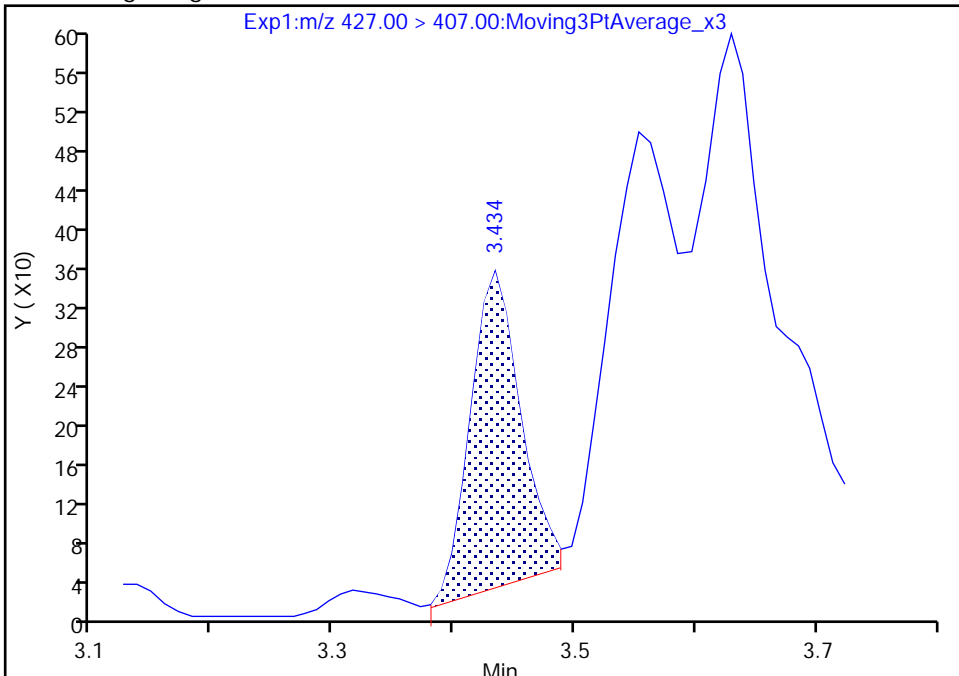
Data File:	\\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A08.d		
Injection Date:	26-Jan-2023 20:43:39	Instrument ID:	LC812
Lims ID:	460-273105-A-1-A	Lab Sample ID:	200-273105-1
Client ID:	BCS-09-48_(15-15.5)P		
Operator ID:	LC812user	ALS Bottle#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	8

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

Signal: 1

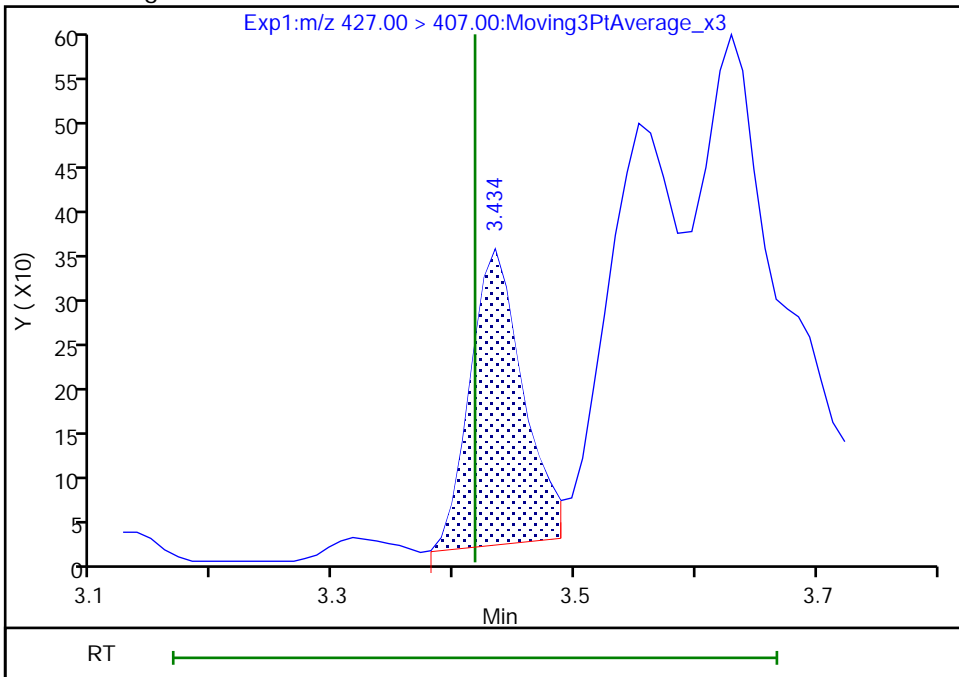
RT: 3.43
 Area: 936
 Amount: 0.003121
 Amount Units: ng/ml

Processing Integration Results



RT: 3.43
 Area: 1013
 Amount: 0.003378
 Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:11:07
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-49_(15-15.5)P Lab Sample ID: 460-273105-2
 Matrix: Solid Lab File ID: PA230126A11.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:25
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.28(g) Date Analyzed: 01/26/2023 21:08
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 18.8 % Solids: 81.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.58	U	0.58	0.38
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.23	U	0.23	0.064
307-24-4	Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.054
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.045
335-67-1	Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.068
375-95-1	Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.040
335-76-2	Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.029
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.030
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.038
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.23	U	0.23	0.027
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.23	U	0.23	0.022
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.23	U	0.23	0.040
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.33	U	2.33	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.33	U	2.33	0.097
27619-97-2	6:2 FTS	2.33	U	2.33	0.066
39108-34-4	8:2 FTS	2.33	U	2.33	0.043

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-49_(15-15.5)P Lab Sample ID: 460-273105-2
 Matrix: Solid Lab File ID: PA230126A11.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:25
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.28(g) Date Analyzed: 01/26/2023 21:08
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 18.8 % Solids: 81.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	68		50-150
STL01892	13C4 PFHpA	80		50-150
STL00990	13C4 PFOA	83		50-150
STL00991	13C4 PFOS	77		50-150
STL00995	13C5 PFNA	85		50-150
STL00992	13C4 PFBA	82		50-150
STL00993	13C2 PFHxA	79		50-150
STL00996	13C2 PFDA	82		50-150
STL00997	13C2 PFUnA	83		50-150
STL00998	13C2 PFDoA	72		50-150
STL01056	13C8 FOSA	74		50-150
STL01893	13C5 PFPeA	80		50-150
STL02116	13C2 PFTeDA	74		50-150
STL02118	d3-NMeFOSAA	100		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	86		50-150
STL02280	M2-8:2 FTS	82		50-150
STL02337	13C3 PFBS	67		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A11.d
 Lims ID: 460-273105-A-2-A
 Client ID: BCS-09-49_(15-15.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 21:08:07 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-2-A
 Misc. Info.: 200-0054135-011 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 13:24:03

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	2.077	2.094	-0.017	0.605	1623825	1.02	81.6	19955	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.004	43857	-0.007760		4.3		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.694	1282941	1.00	79.8	7199	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	14355	0.0122		0.4		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	1106281	0.7832	67.4	173076	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.411	2.384	0.027	1.006	2757	0.002704	Target=2.10	5.0		M
298.90 > 99.00	2.397	2.384	0.013	1.000	1648		1.67(1.05-3.15)	1.1		M
D 7 13C2 PFHxA	315.00 > 270.00	2.718	2.694	0.024	0.791	1327611	0.99	79.4	6769	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.718	2.706	0.012	1.000	9832	0.008787	Target=13.16	2.0		RM
313.00 > 119.00	2.718	2.706	0.012	1.000	1674		5.87(6.58-19.74)	4.7		M
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.897	830162	0.8077	68.3	4107	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.080	3.069	0.011	1.000	4003	0.005195	Target=3.18	20.7		
399.00 > 99.00	3.092	3.069	0.023	1.004	1630		2.46(1.59-4.77)	4.6		M
D 9 13C4 PFHpA	367.00 > 322.00	3.080	3.069	0.011	0.897	1330442	0.99	79.5	8596	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.092	3.069	0.023	1.004	7593	0.006699	Target=4.10	1.9		M
363.00 > 169.00	3.080	3.069	0.011	1.000	1941		3.91(2.05-6.16)	6.1		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	3.426	3.417	0.009	0.997	164804	1.02		85.7	1026	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.426	3.417	0.009	1.000	1117	0.003515		1.7		M
D 14 13C4 PFOA										
417.00 > 372.00	3.435	3.426	0.009	1.000	1464337	1.03		82.6	9957	
* 62 13C2 PFOA										
415.00 > 370.00	3.435	3.426	0.009		1730499	1.25			7661	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.444	3.426	0.018	1.003	15321	0.0120	Target=2.71	0.9		RM
413.00 > 169.00	3.435	3.426	0.009	1.000	2232		6.86(1.36-4.07)	6.1		M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.093	577346	0.9239		77.3	4252	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.753	3.754	-0.001	1.000	5400	0.009201	Target=4.23	5.1		M
499.00 > 99.00	3.598	3.754	-0.156	0.959	1462		3.69(2.11-6.34)	9.1		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.099	1465894	1.06		84.9	6938	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.186	1447558	1.02		81.7	3427	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.073	4.074	-0.001	1.000	4441	0.003587	Target=11.13	1.3		M
513.00 > 169.00	4.063	4.074	-0.011	0.997	527		8.43(5.56-16.69)	6.0		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.189	199135	0.9811		81.9	1271	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.132	4.144	-0.012	1.000	2916	0.003406		17.9		M
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.203	1064063	0.9238		73.9	3428	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.215	4.226	-0.011	1.227	346995	1.25		99.6	4522	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.215	4.226	-0.011	1.000	495	0.001978		2.9		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.265	1272518	1.04		83.2	9476	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	934	0.004118		5.7		
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.269	305138	1.14		91.2	861	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.583	4.584	-0.001	1.000	4294	0.004755	Target=8.10	0.5		R
613.00 > 169.00	4.571	4.584	-0.013	0.997	114		37.67(4.05-12.15)	2.1		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.334	1108625	0.9038		72.3	4353	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.994	4.998	-0.004	1.000	409	0.004209	Target=0.83	7.6		RM
713.00 > 219.00	4.994	4.998	-0.004	1.000	281		1.46(0.42-1.25)	5.3		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
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D 43 13C2 PFTeDA

715.00 > 670.00 4.994 4.998 -0.004 1.454 972776 0.9221 73.8 5860

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A11.d

Injection Date: 26-Jan-2023 21:08:07

Instrument ID: LC812

Lims ID: 460-273105-A-2-A

Lab Sample ID: 200-273105-2

Client ID: BCS-09-49_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

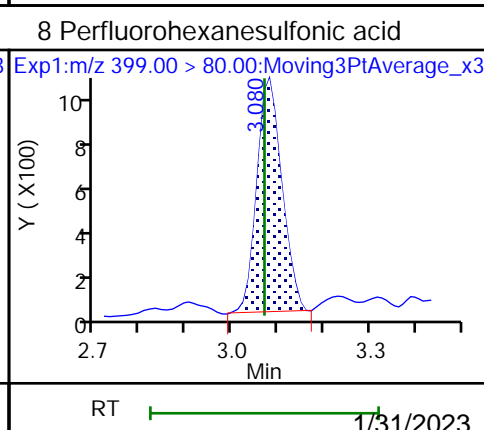
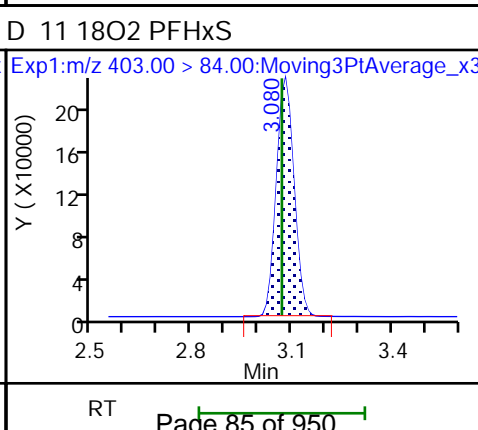
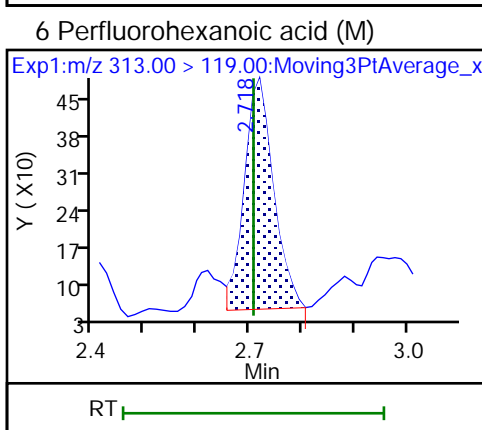
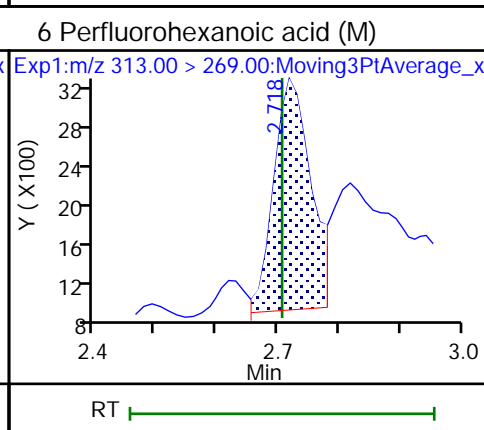
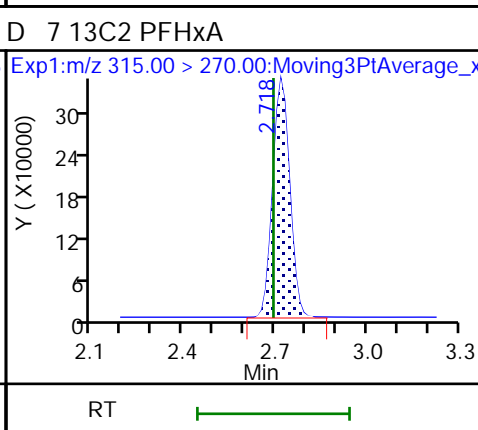
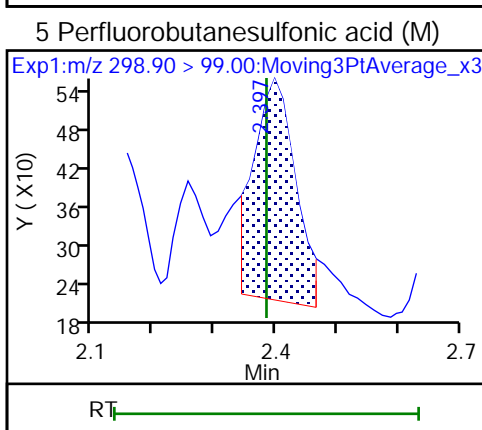
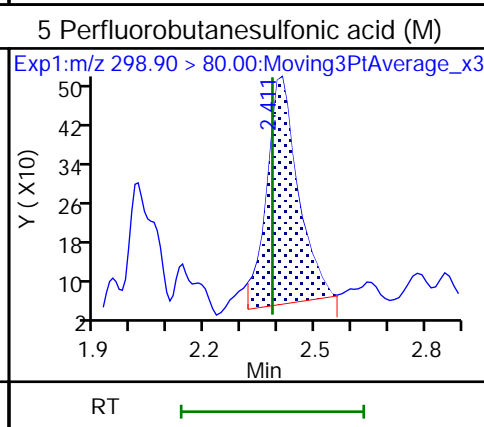
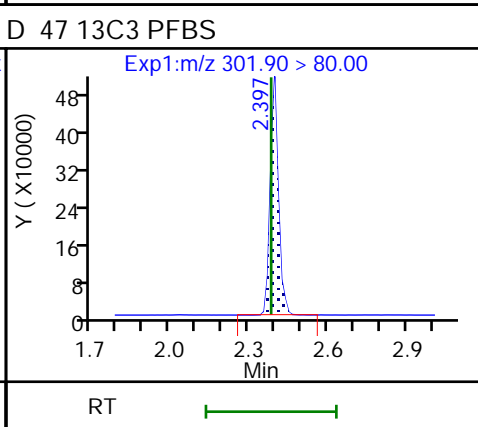
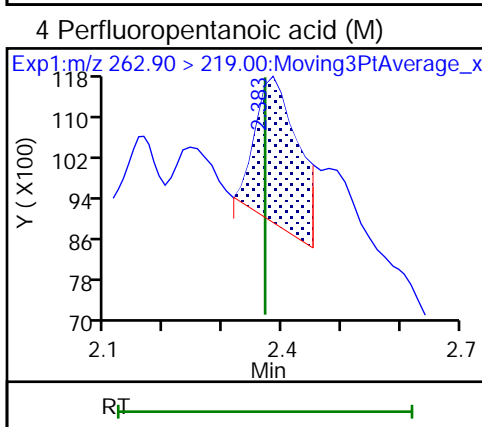
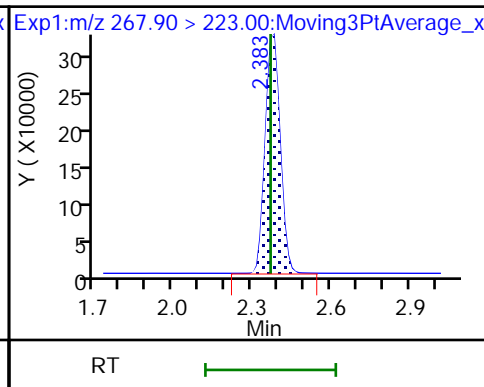
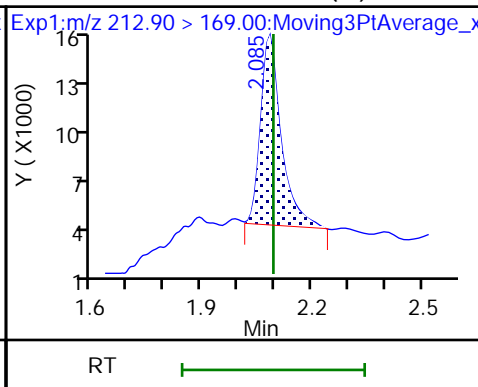
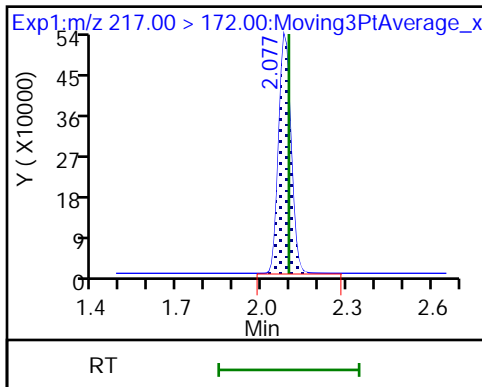
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

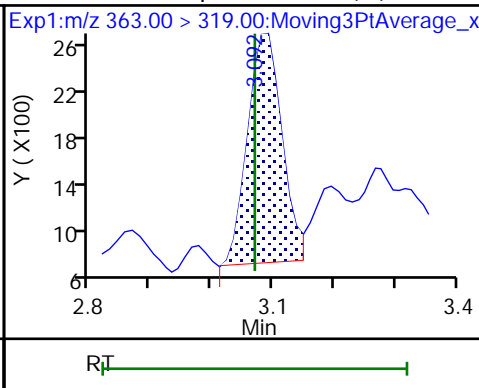
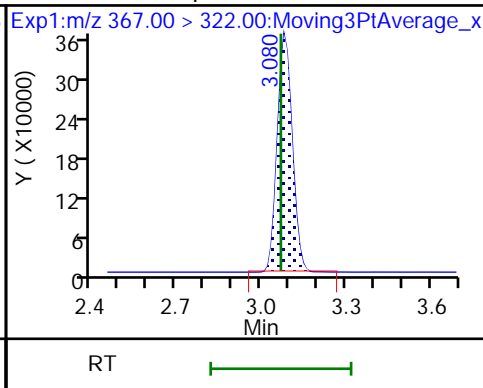
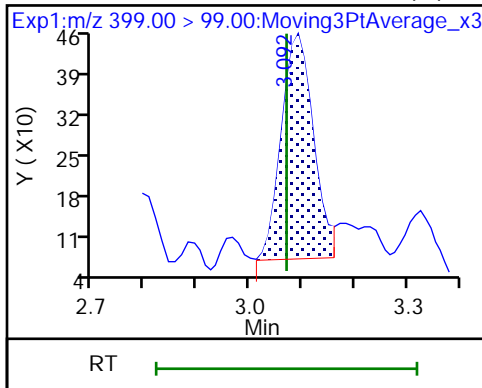
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

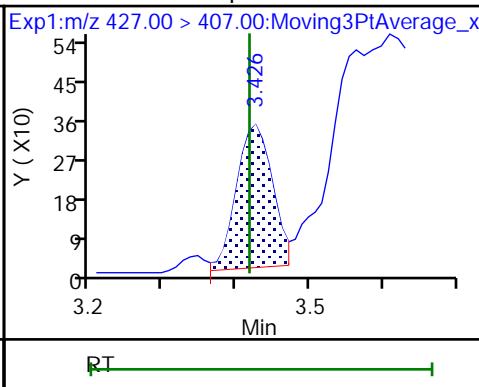
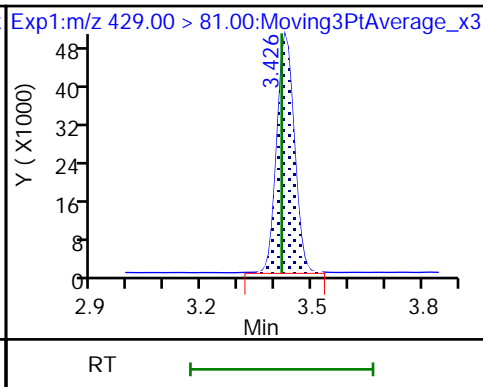
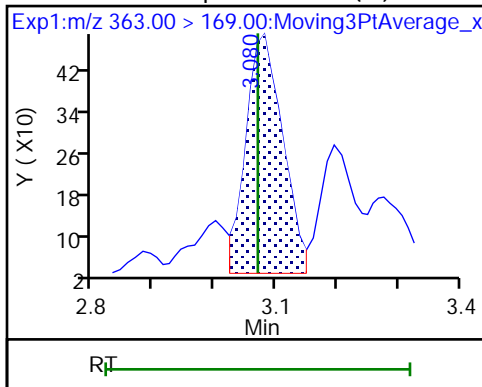
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

D 12 M2-6:2 FTS

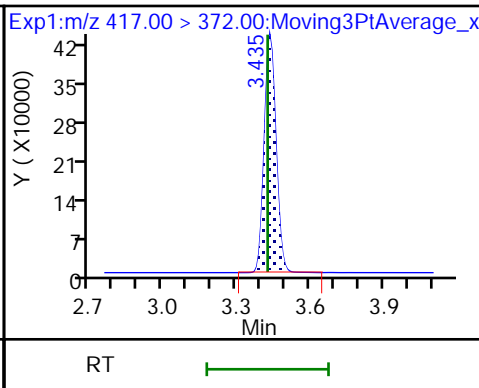
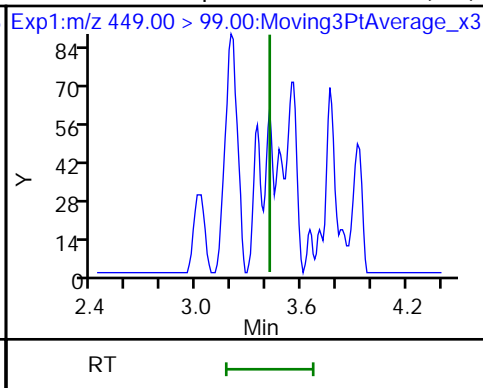
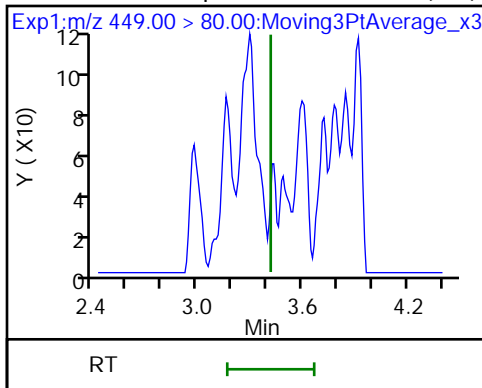
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid (ND)

16 Perfluoroheptanesulfonic acid (ND)

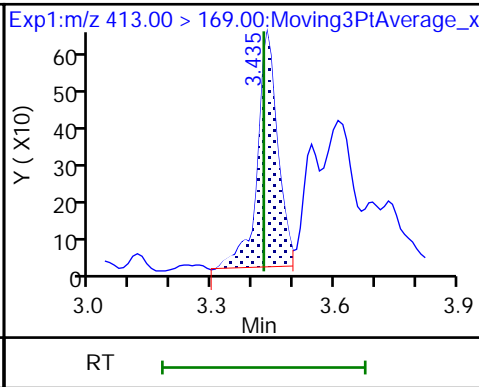
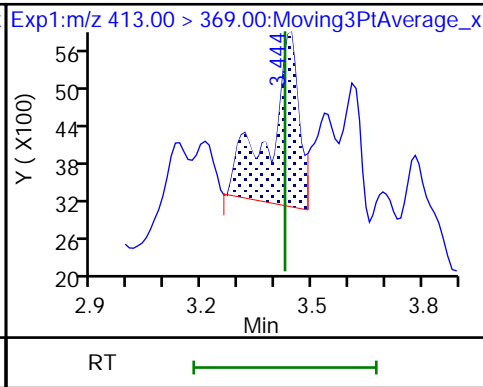
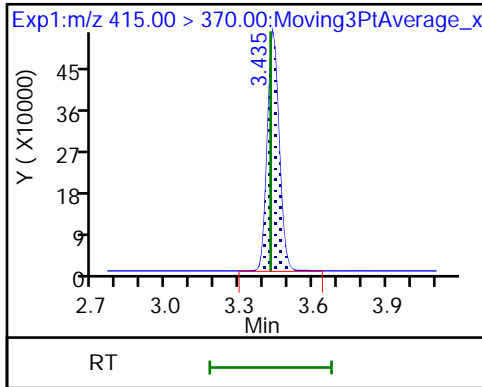
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

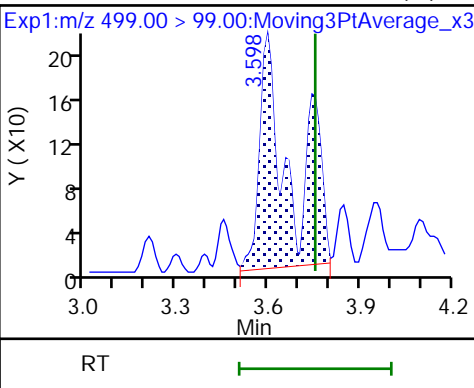
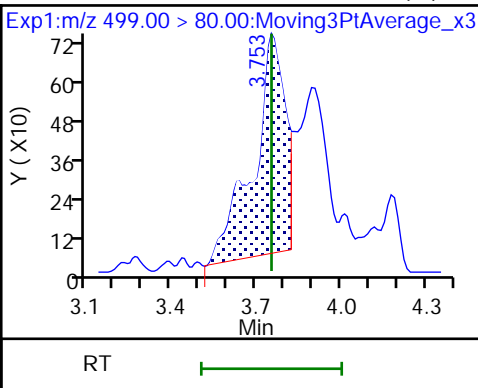
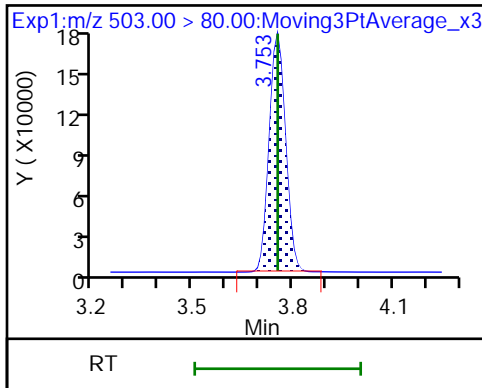
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

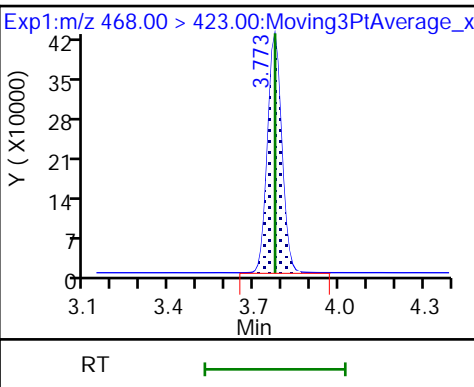
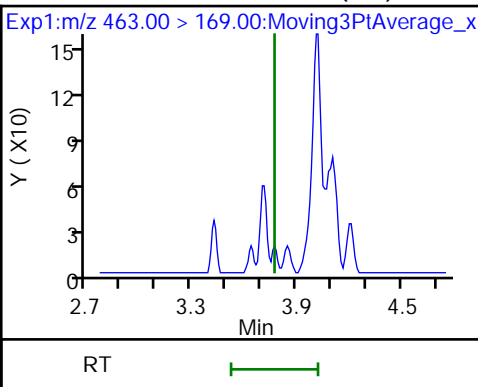
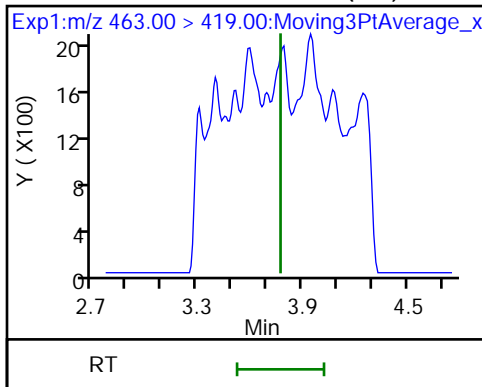
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

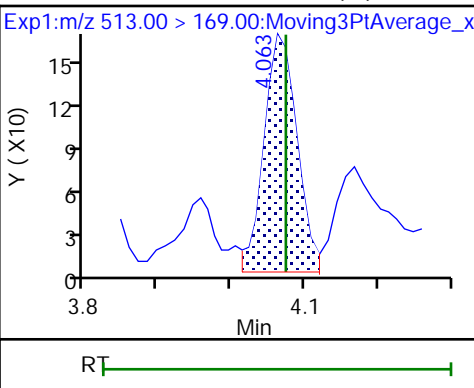
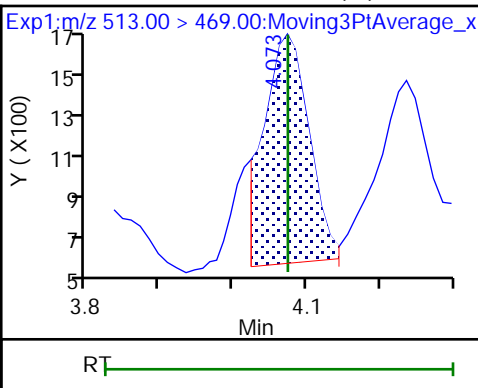
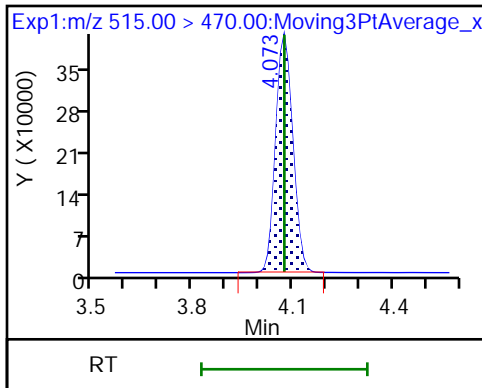
D 19 13C5 PFNA



D 23 13C2 PFDA

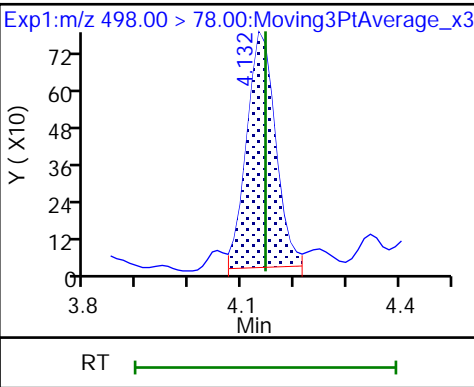
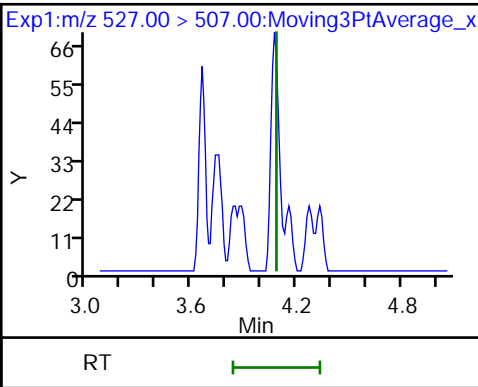
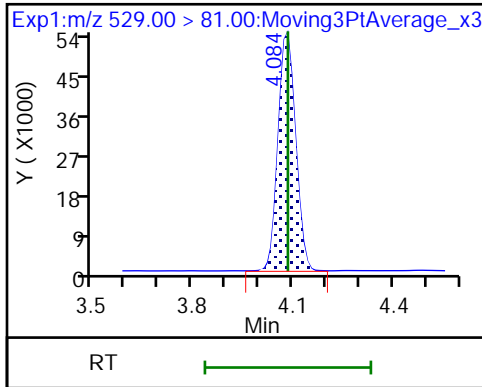
24 Perfluorodecanoic acid (M)

24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

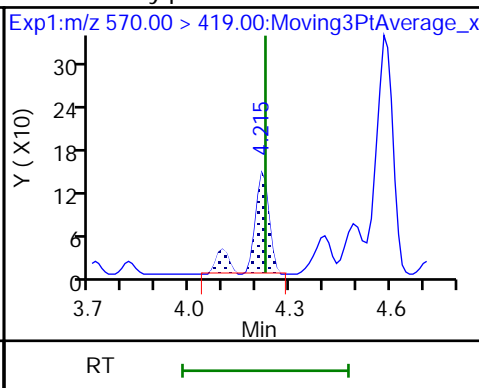
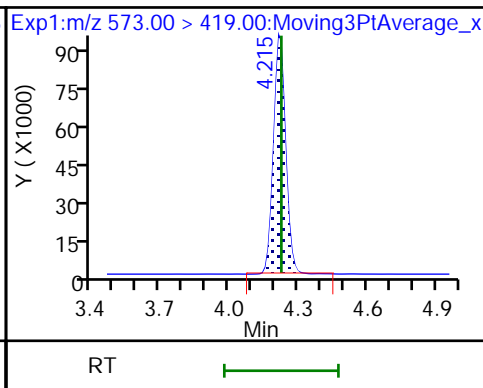
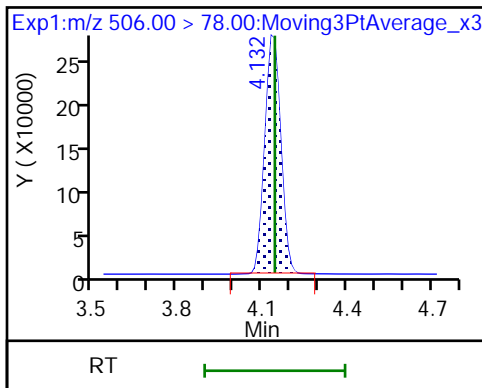
25 1H,1H,2H,2H-perfluorodecanesulfo (M) 17 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

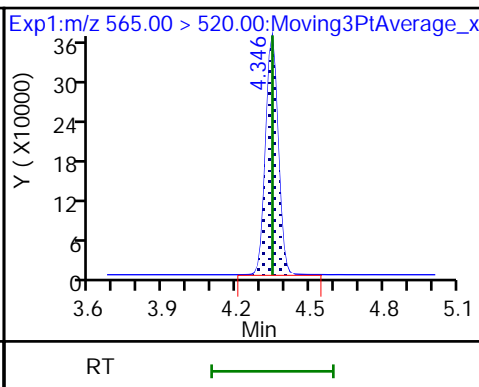
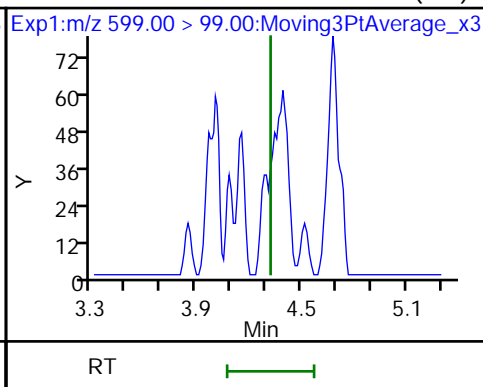
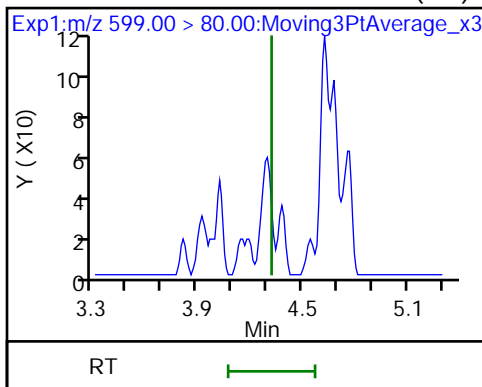
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

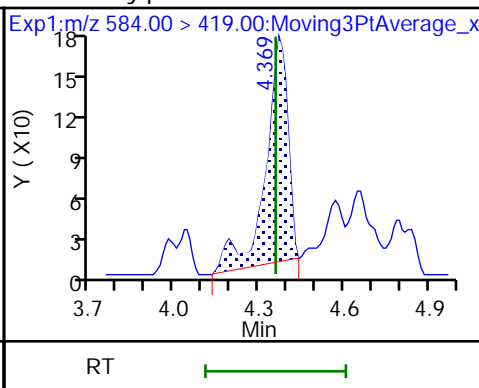
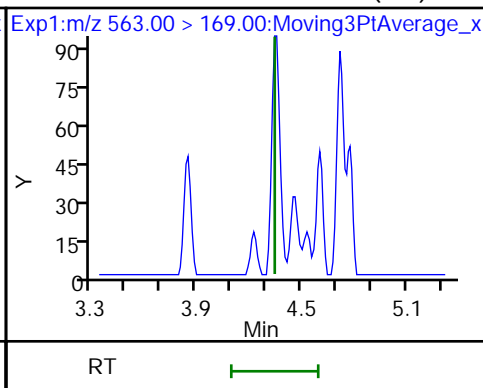
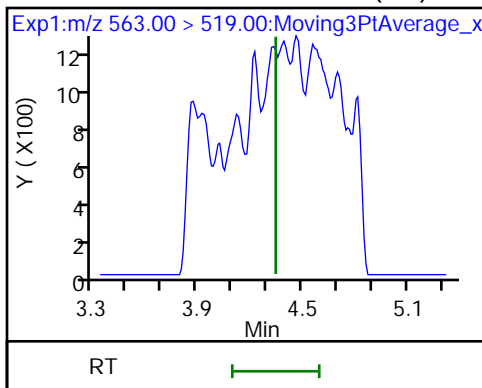
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

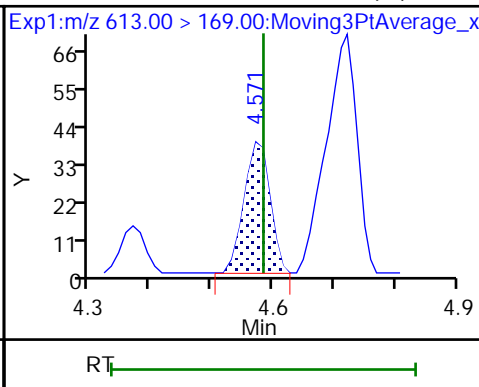
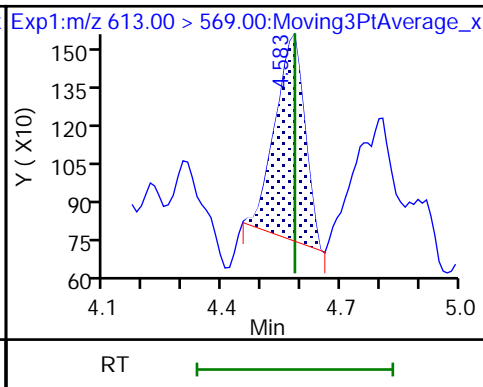
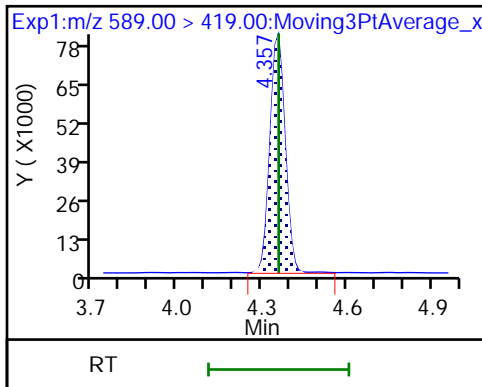
33 N-ethylperfluorooctanesulfonamid



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid

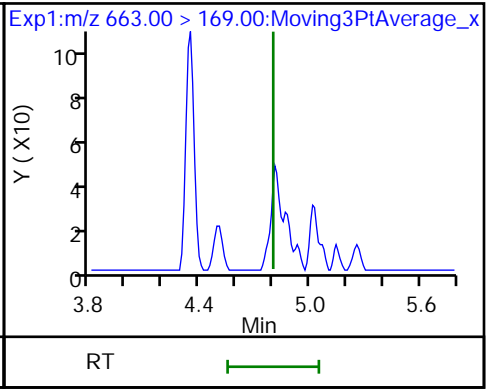
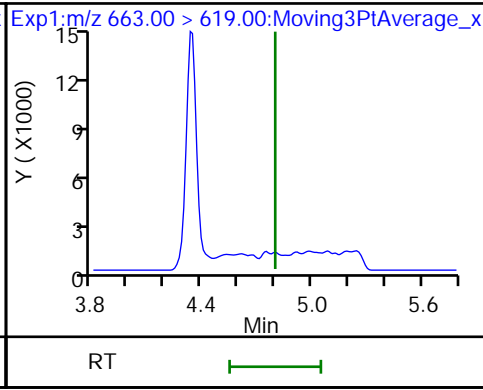
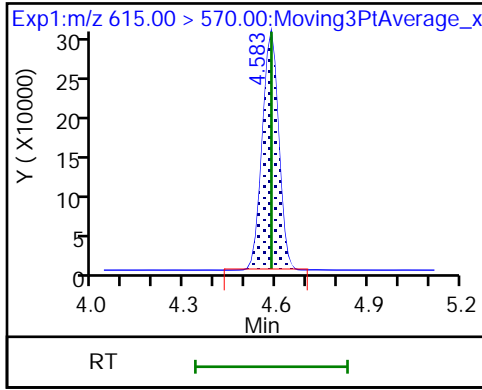
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (ND)

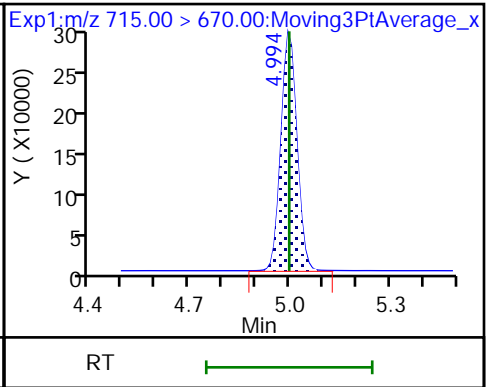
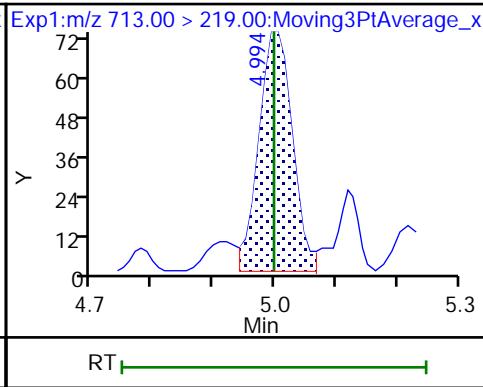
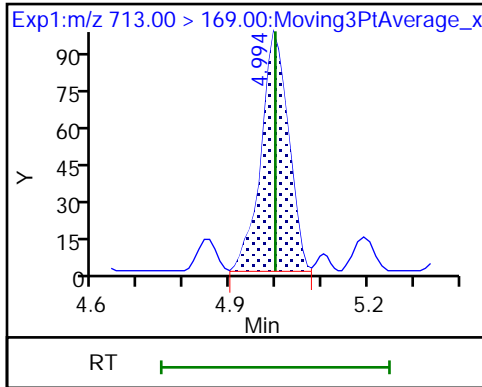
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

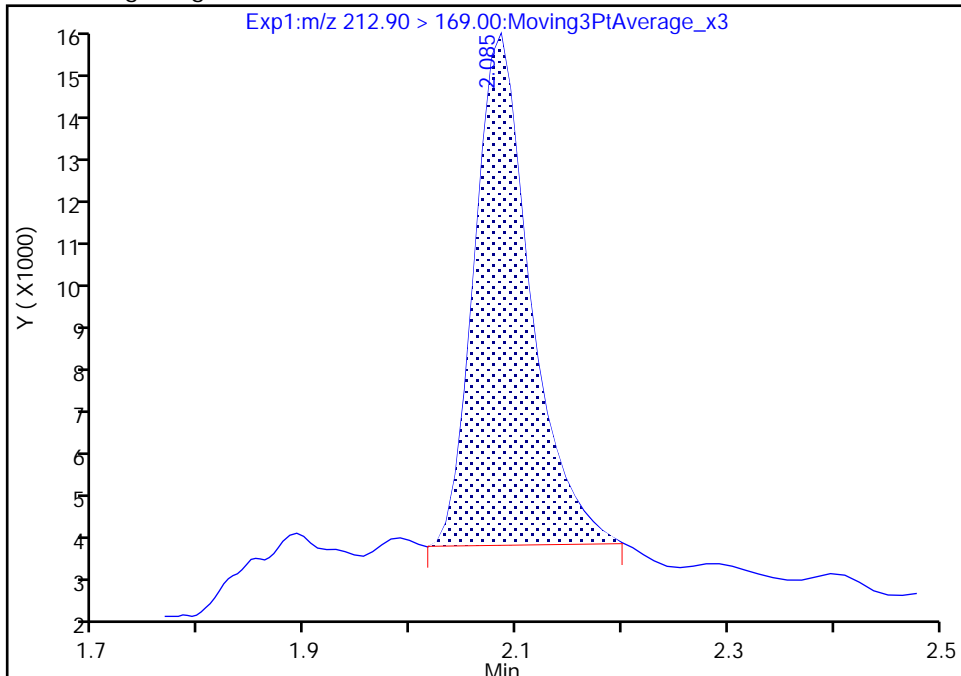
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

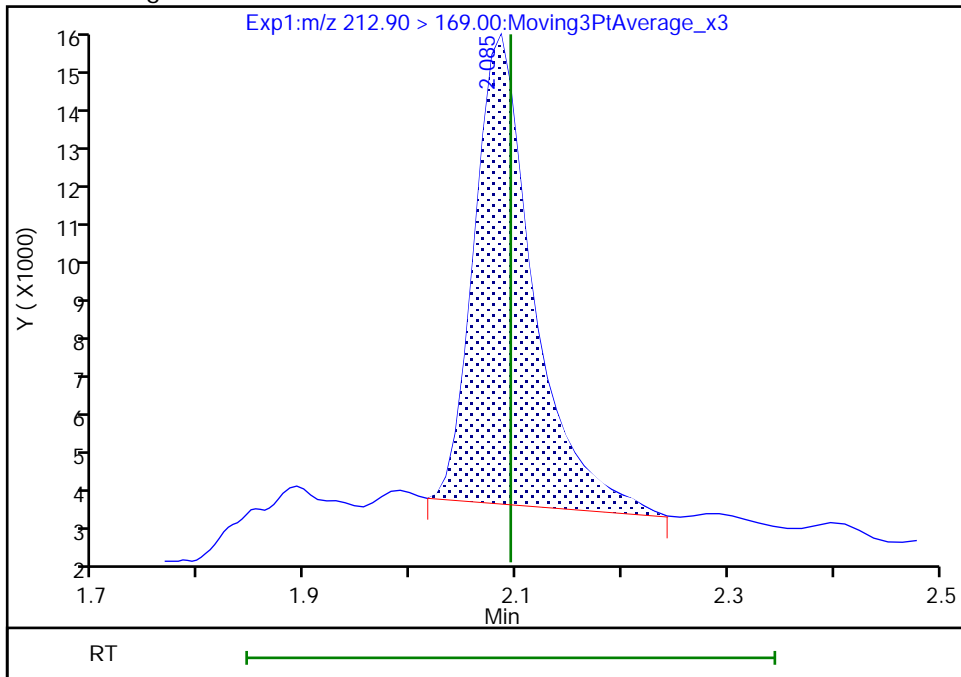
RT: 2.09
Area: 40918
Amount: -0.010148
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 43857
Amount: -0.007760
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:19:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

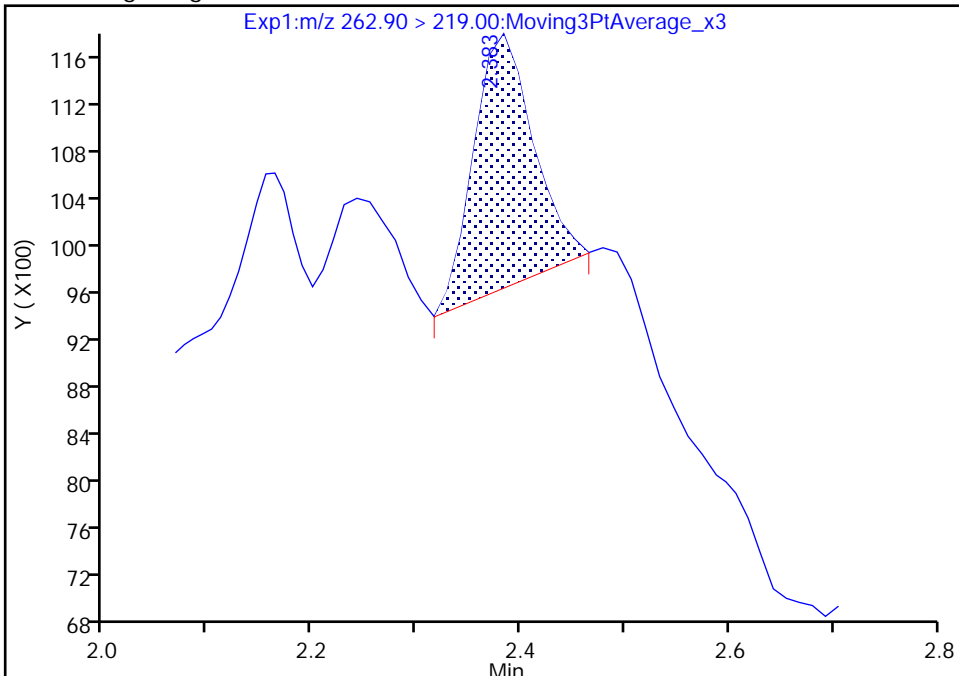
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

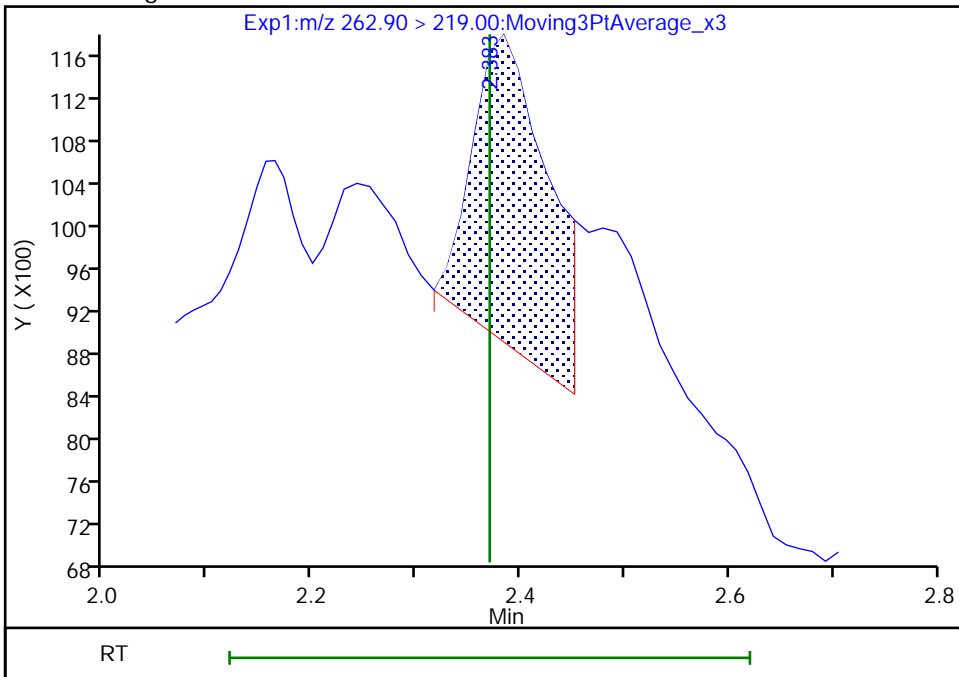
RT: 2.38
Area: 8481
Amount: 0.007215
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 14355
Amount: 0.012212
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:19:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

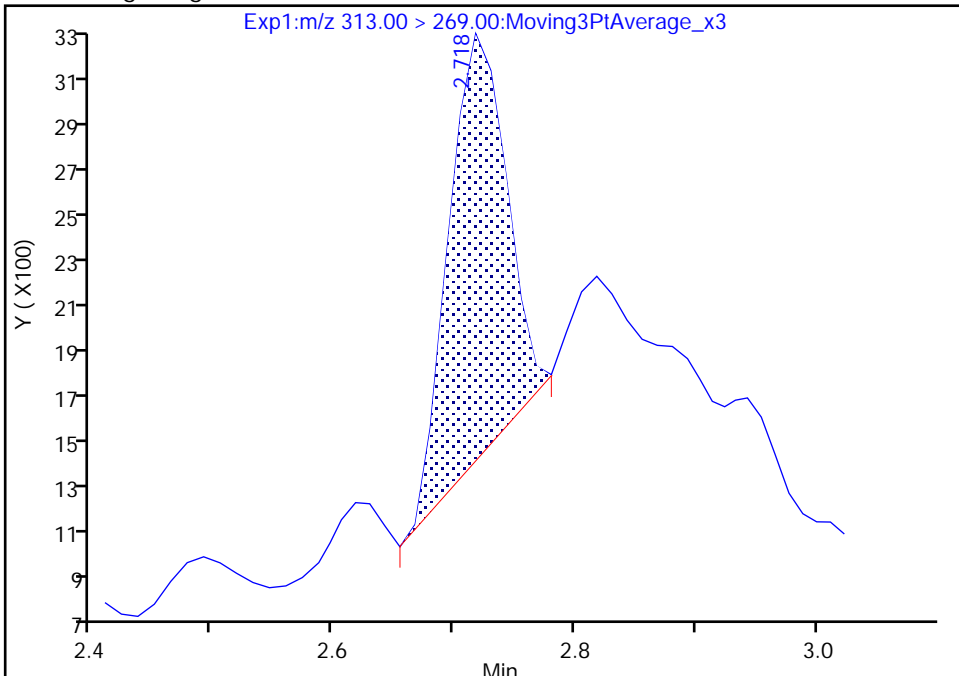
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

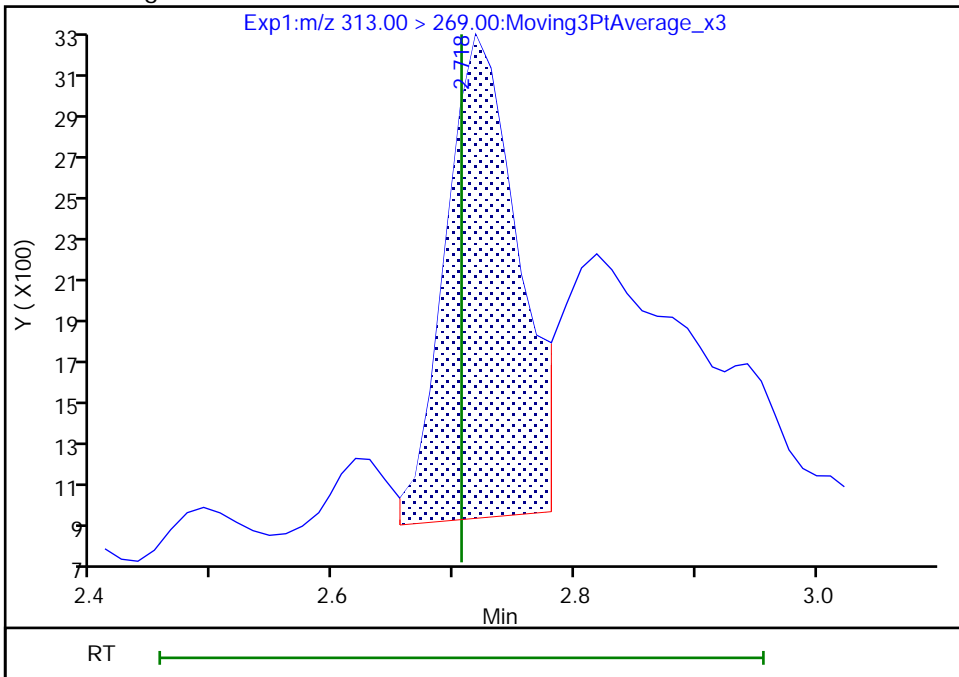
RT: 2.72
Area: 6236
Amount: 0.005573
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 9832
Amount: 0.008787
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:20:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

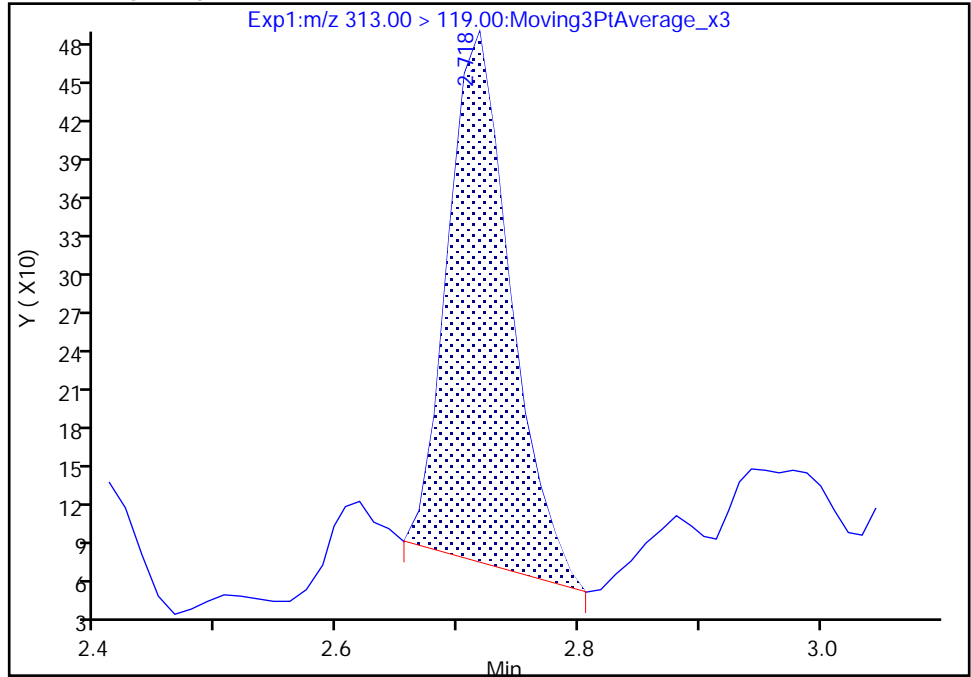
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

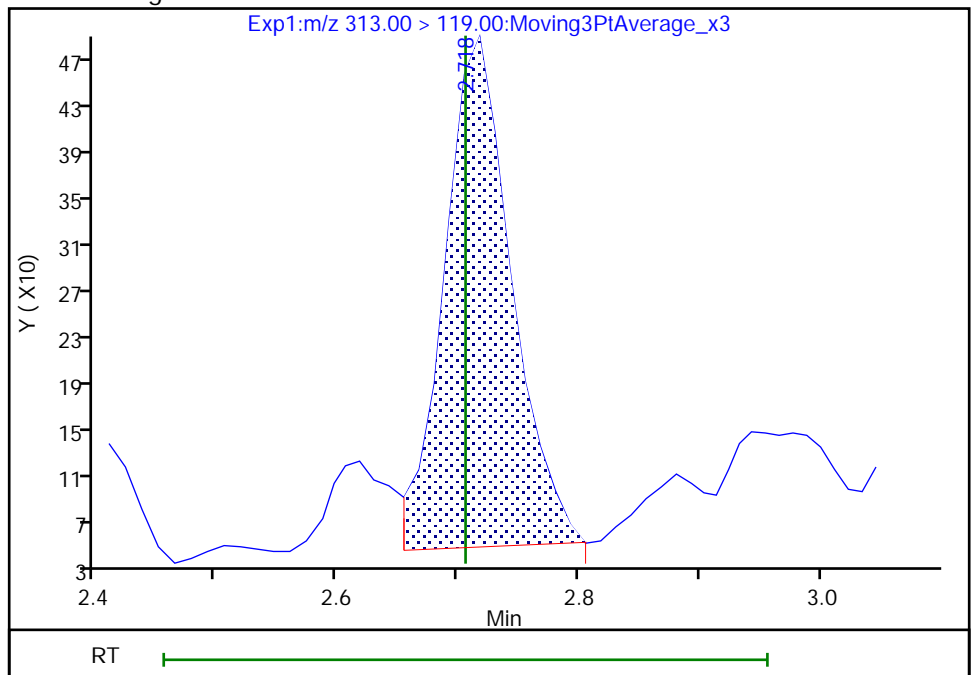
RT: 2.72
Area: 1476
Amount: 0.005573
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 1674
Amount: 0.008787
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:20:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

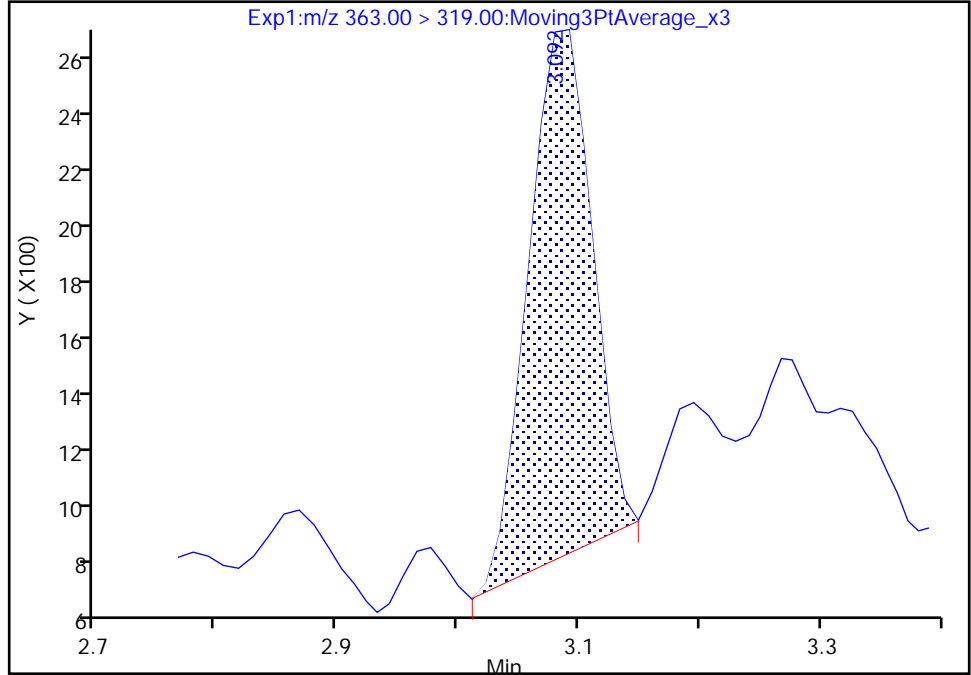
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

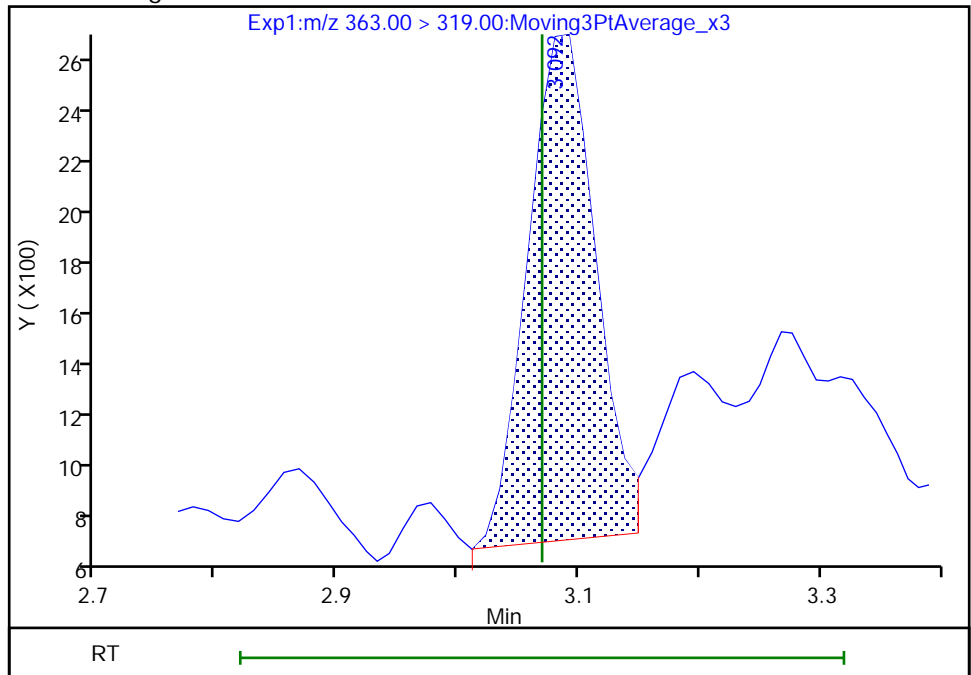
RT: 3.09
Area: 6706
Amount: 0.005917
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 7593
Amount: 0.006699
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:20:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

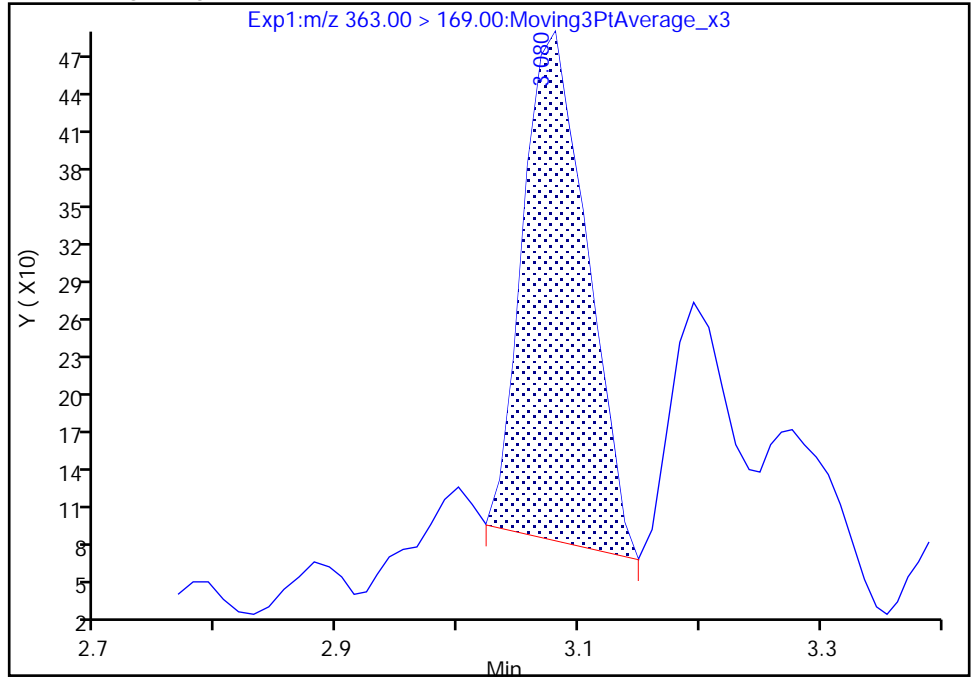
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A11.d
Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

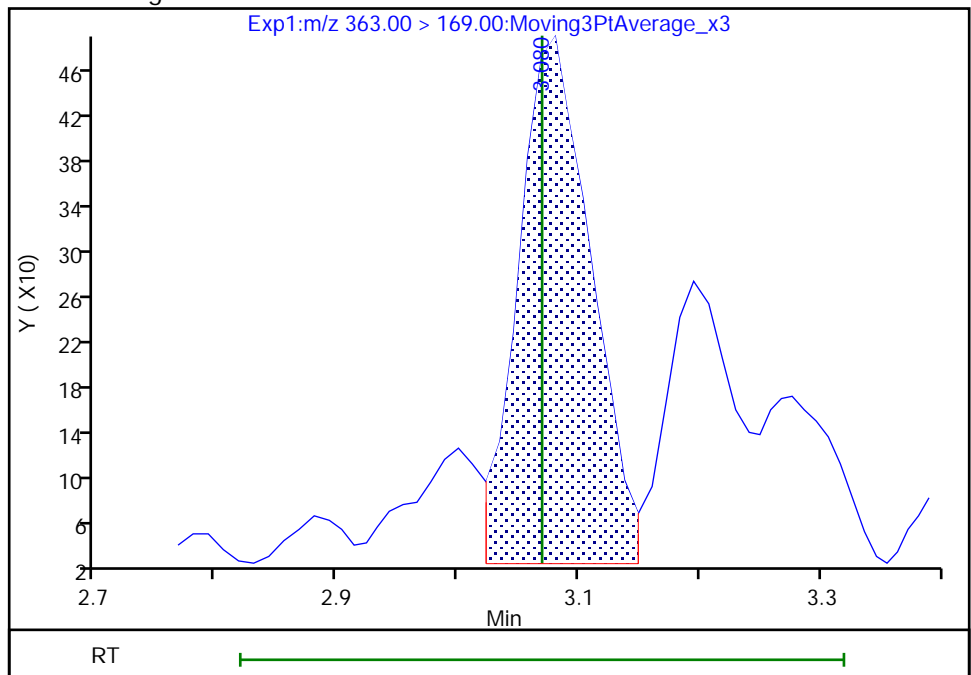
RT: 3.08
Area: 1502
Amount: 0.005917
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 1941
Amount: 0.006699
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:20:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

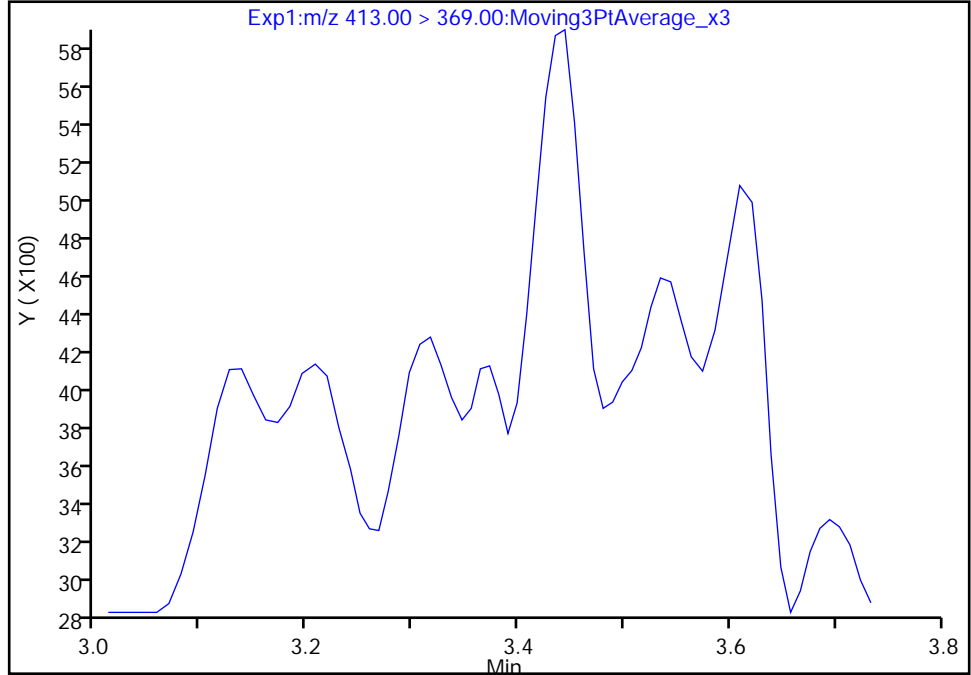
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A11.d
Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

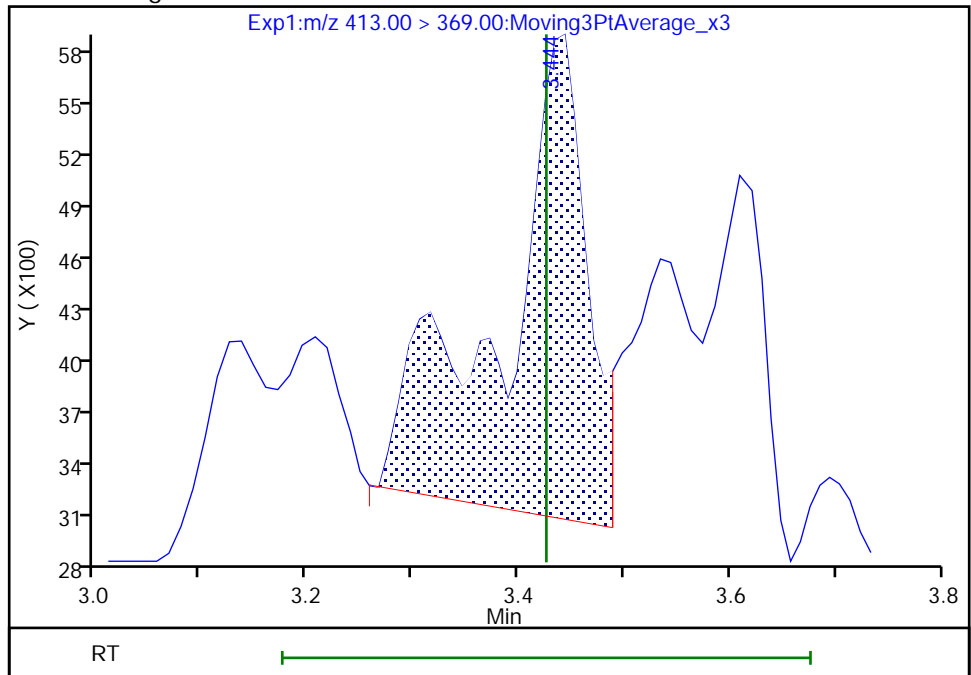
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 15321
Amount: 0.012017
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:21:44
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

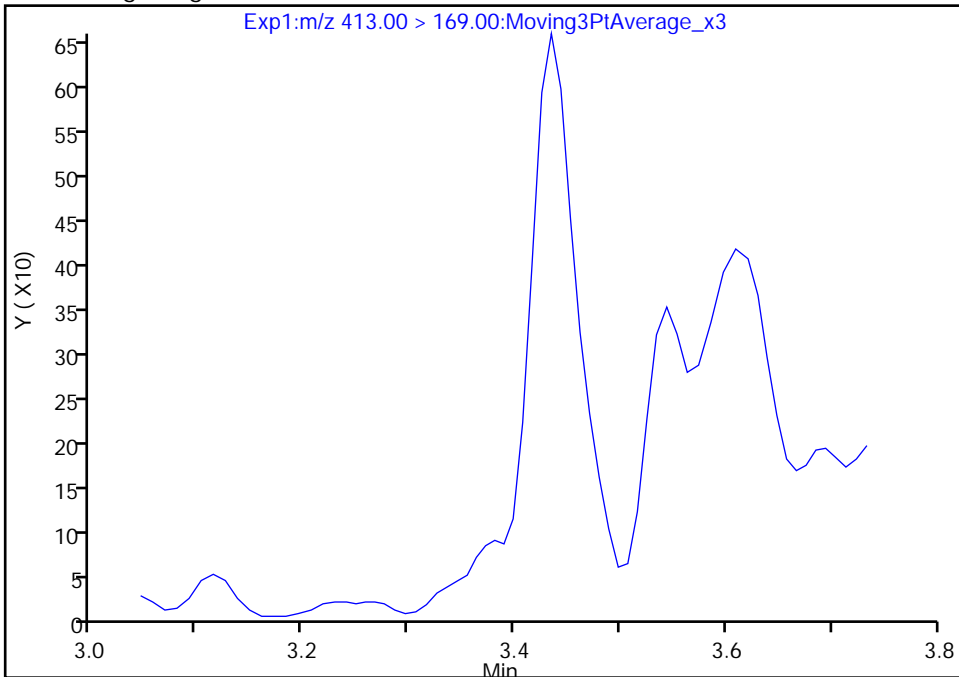
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

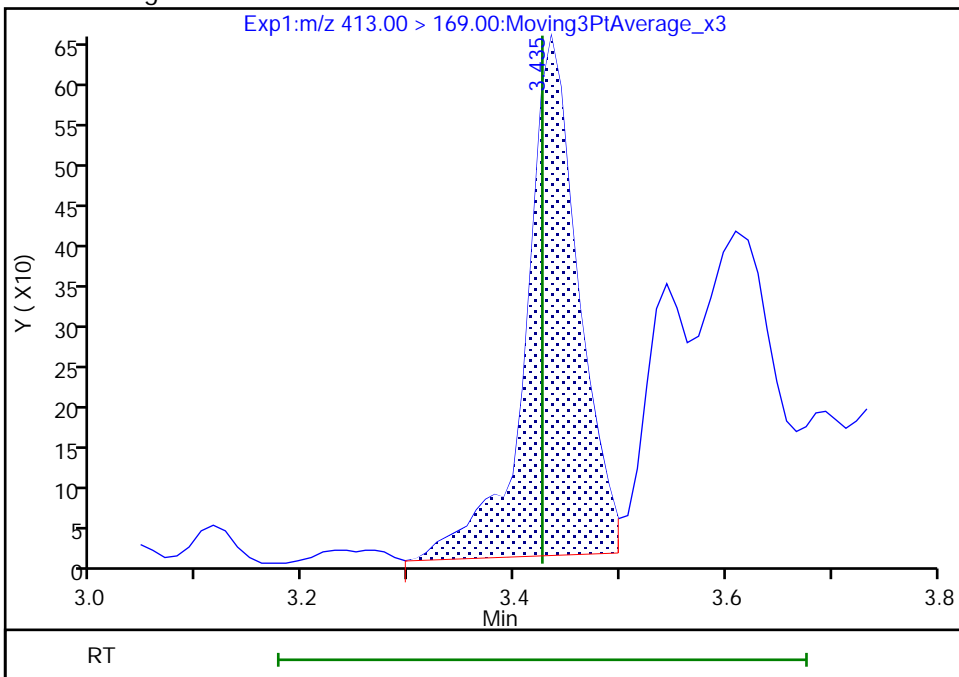
Not Detected
Expected RT: 3.43

Processing Integration Results



RT: 3.43
Area: 2232
Amount: 0.012017
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:21:48
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 97 of 950

Eurofins Burlington

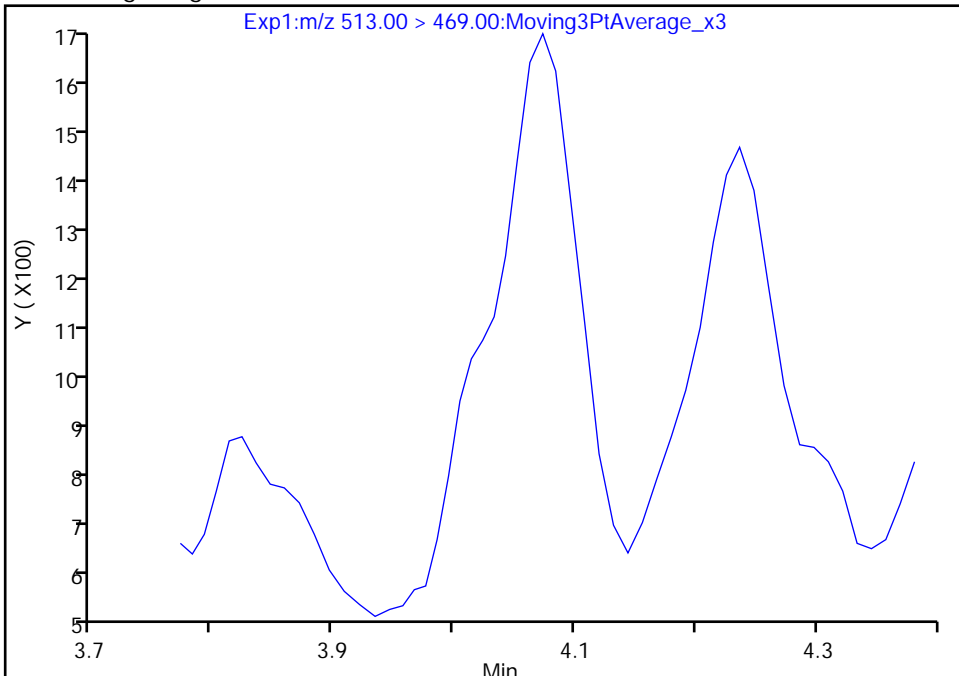
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

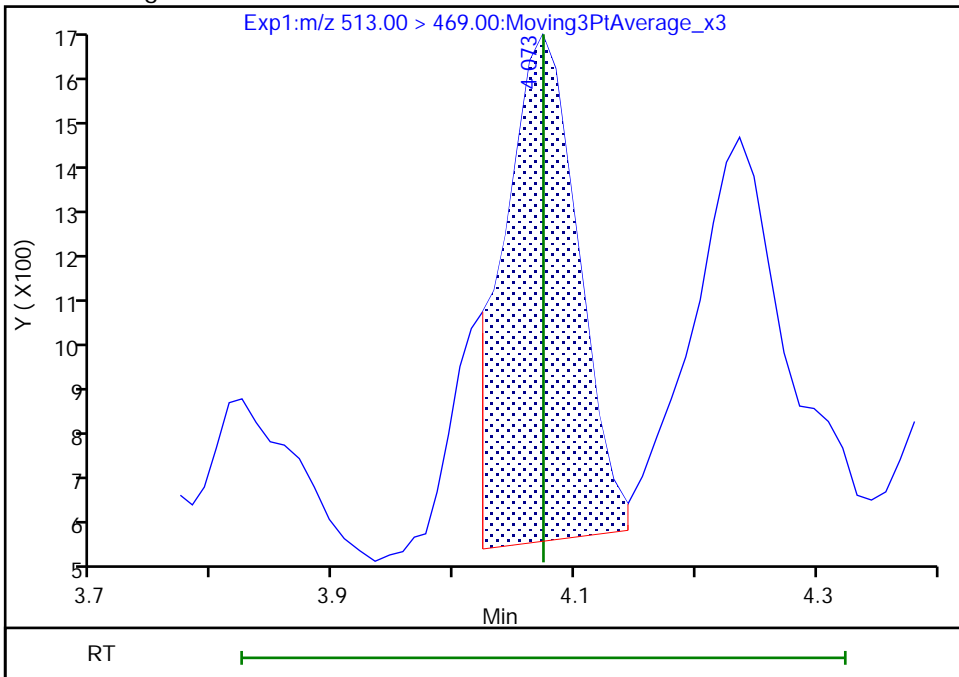
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 4441
Amount: 0.003587
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:22:36
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

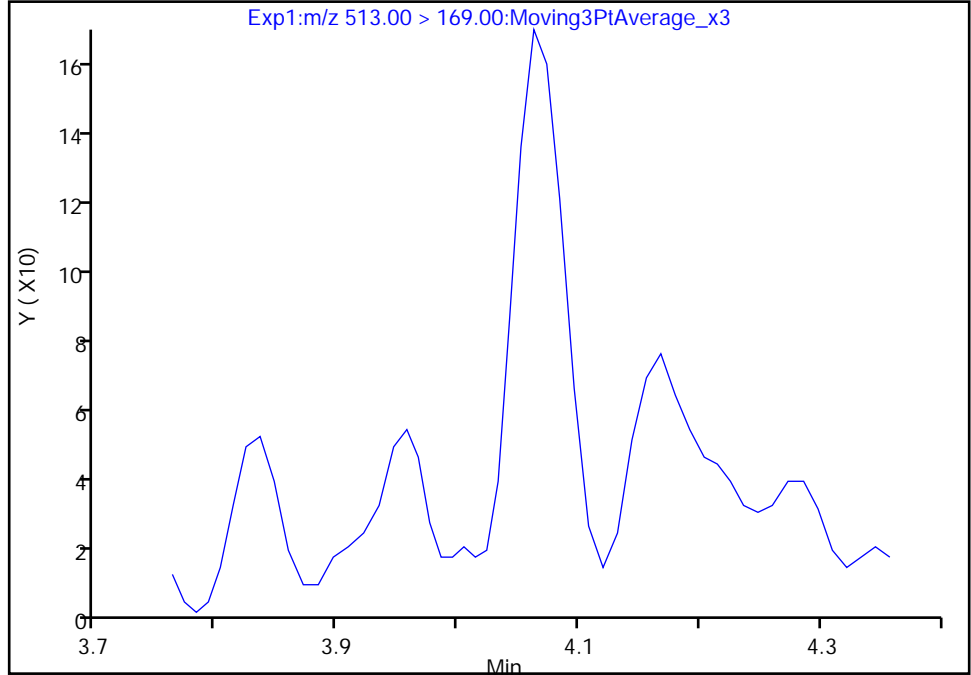
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

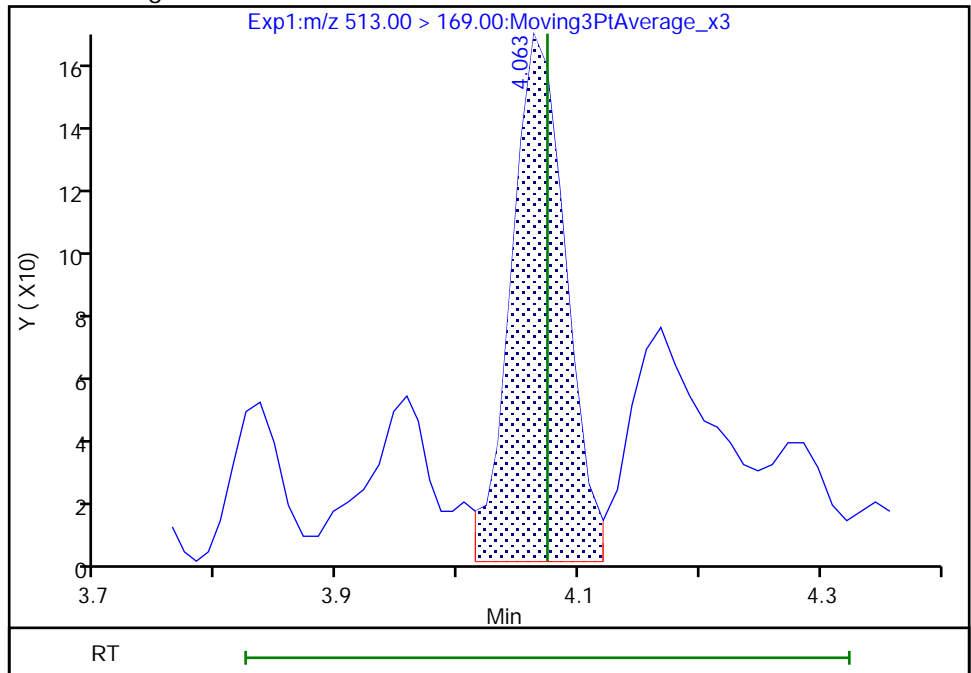
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.06
Area: 527
Amount: 0.003587
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:22:41

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

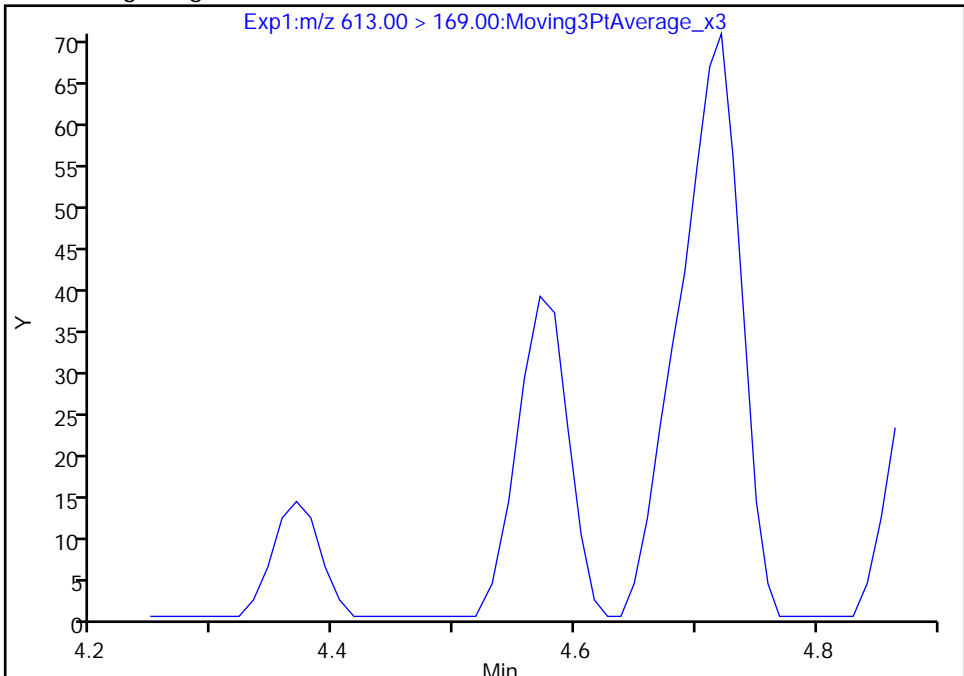
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

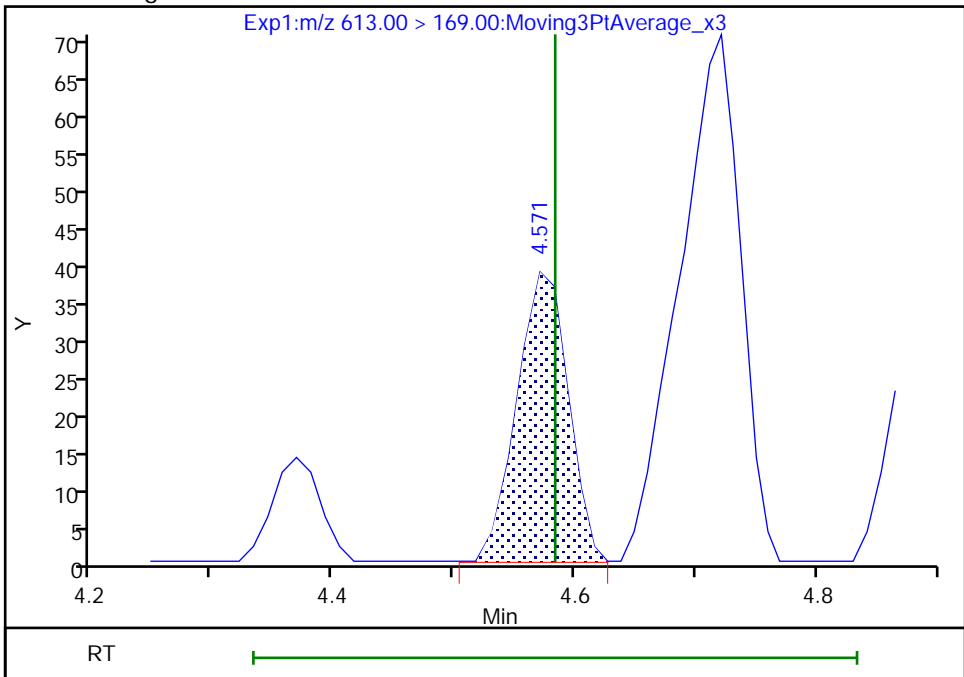
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.57
Area: 114
Amount: 0.004755
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:23:27
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

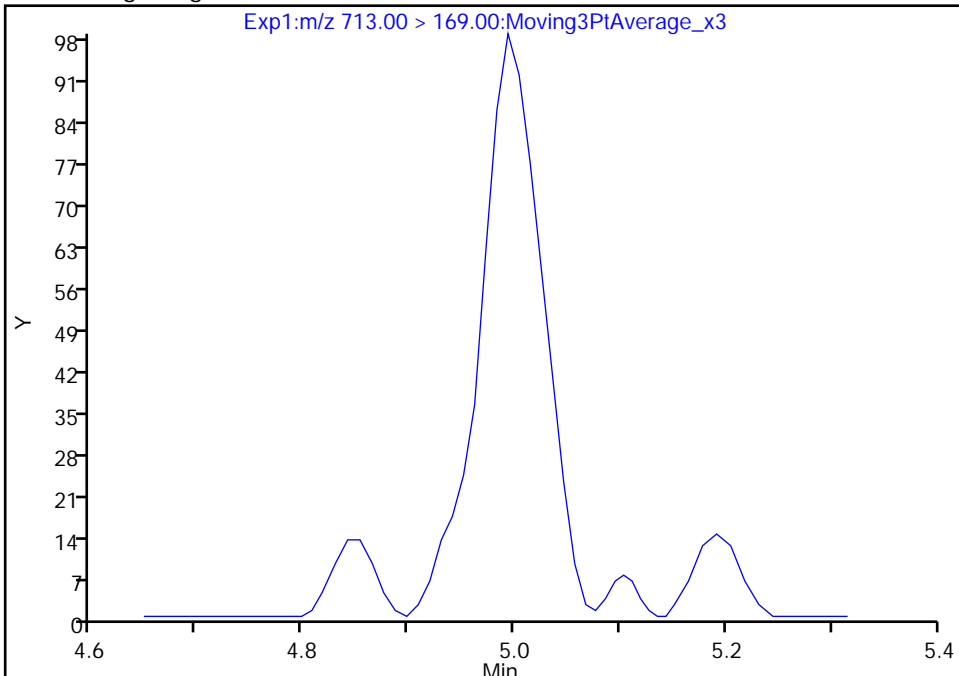
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

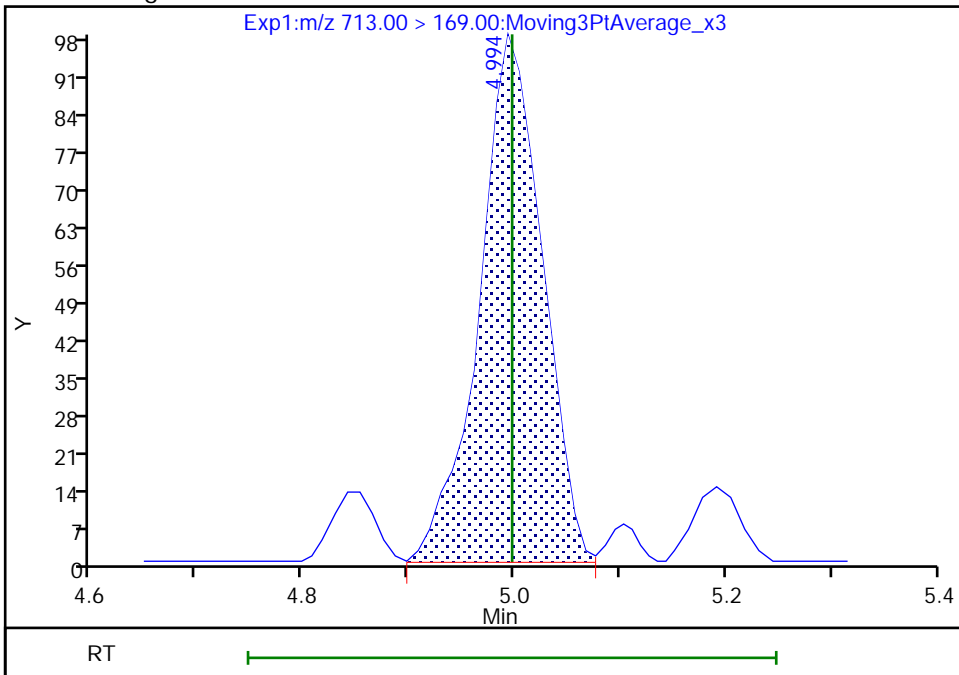
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 409
Amount: 0.004209
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:23:47
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

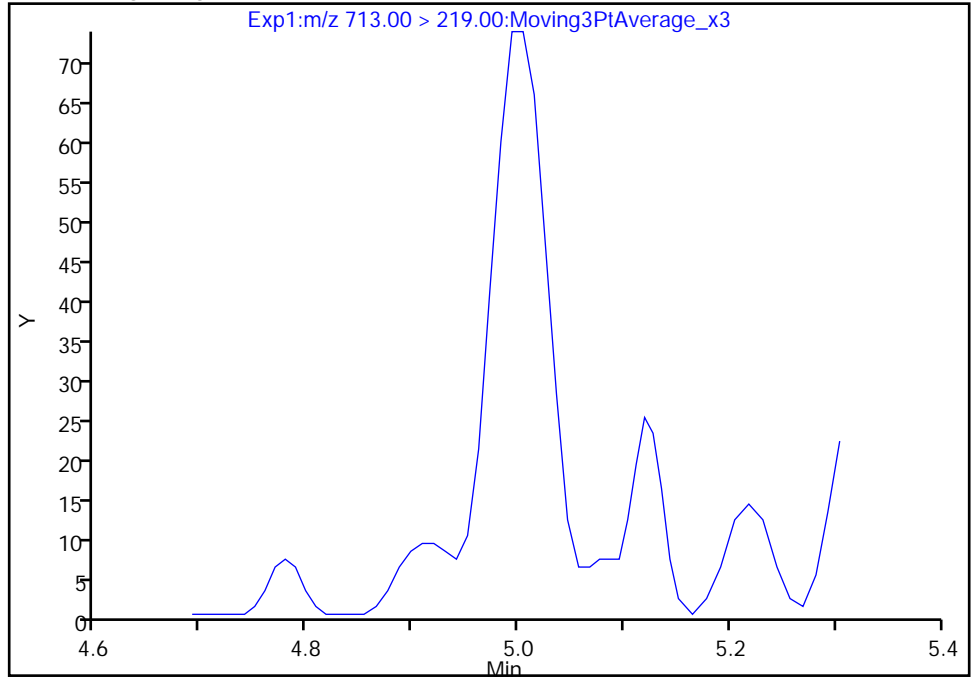
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

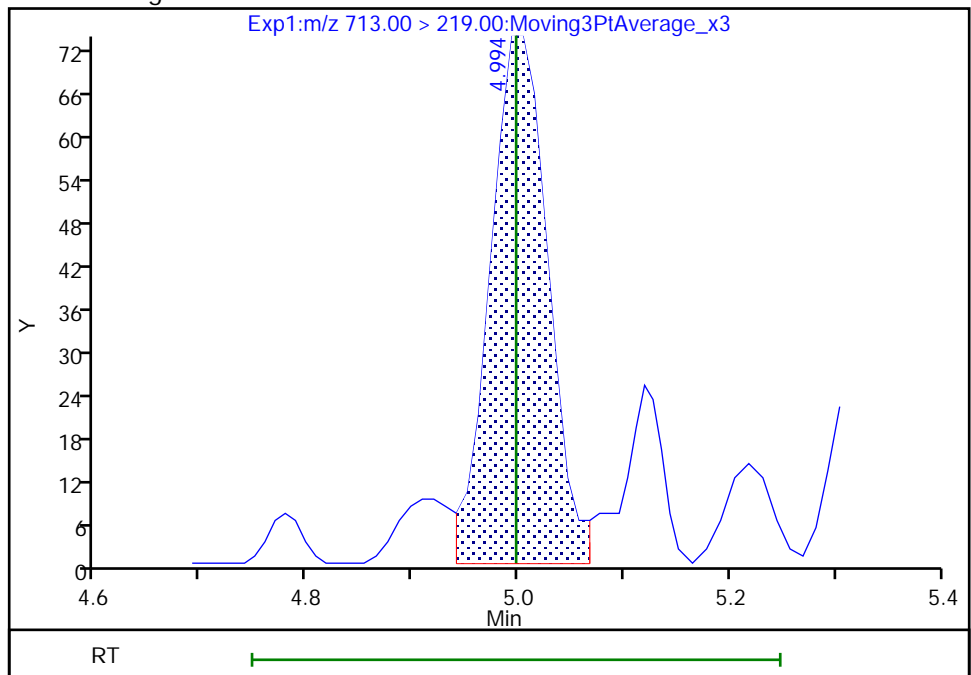
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 281
Amount: 0.004209
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:23:52

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

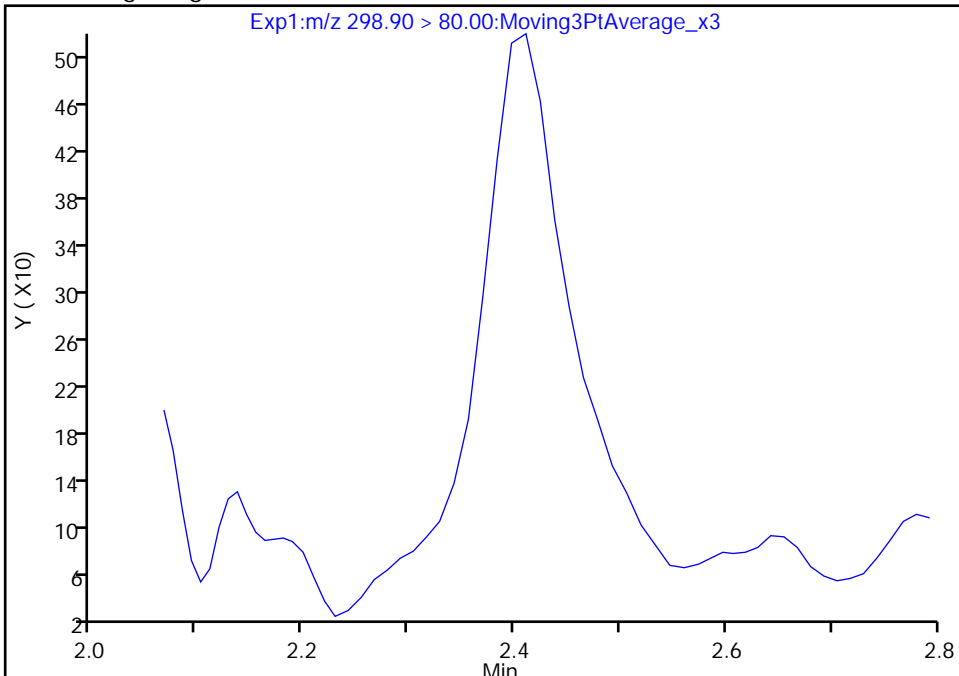
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

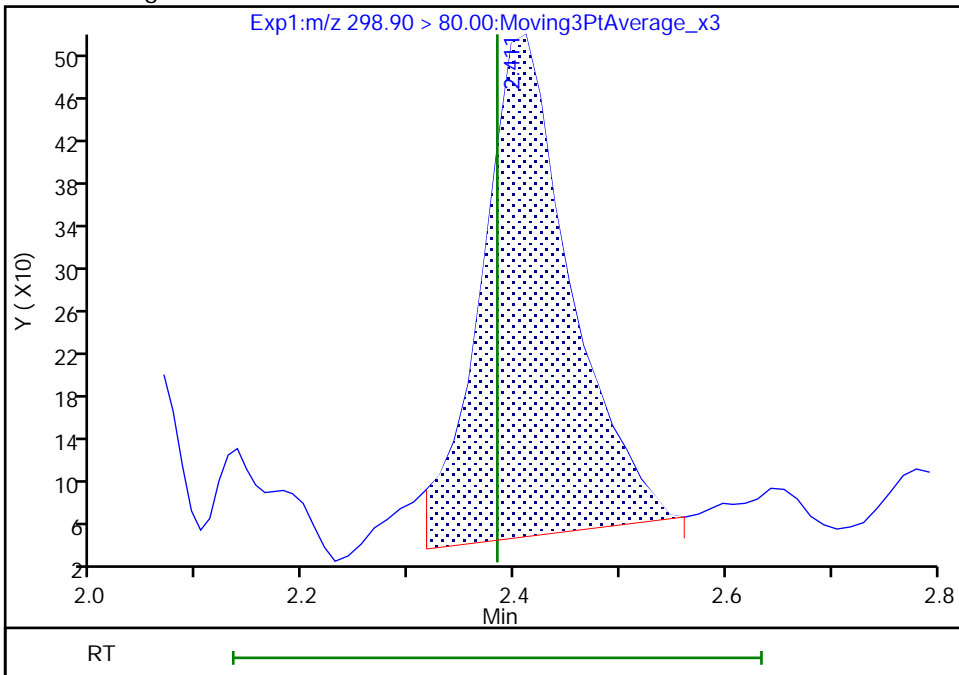
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 2757
Amount: 0.002704
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:19:48
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

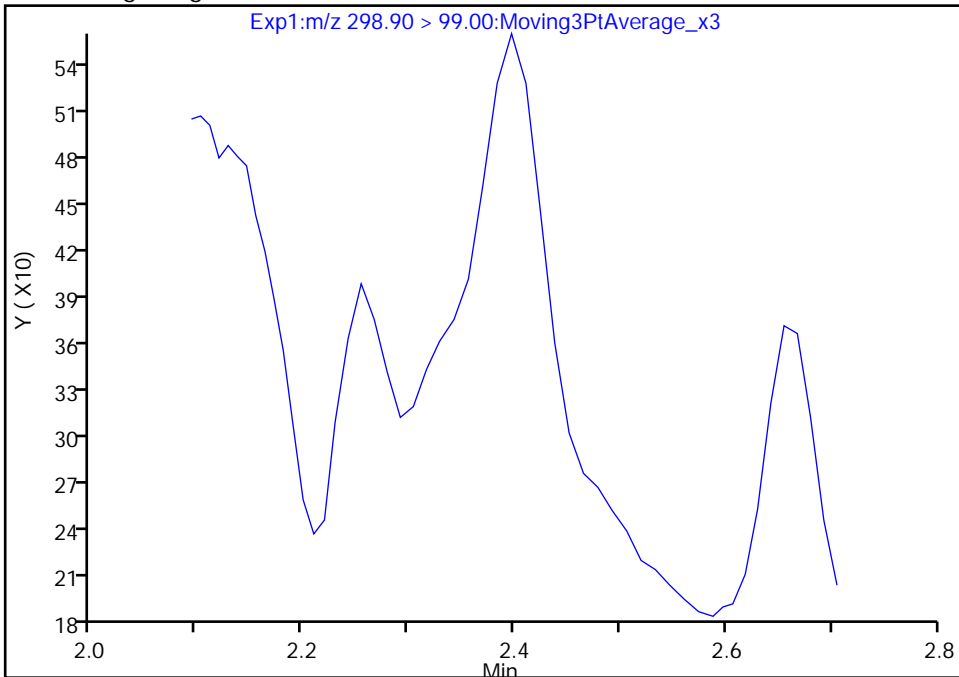
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

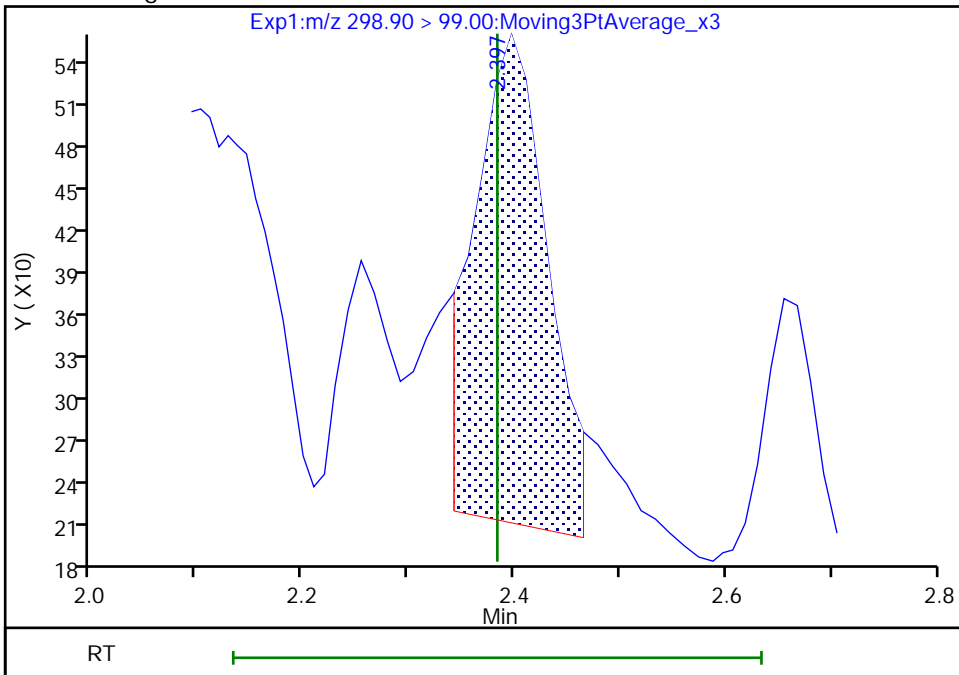
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1648
Amount: 0.002704
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:19:53

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

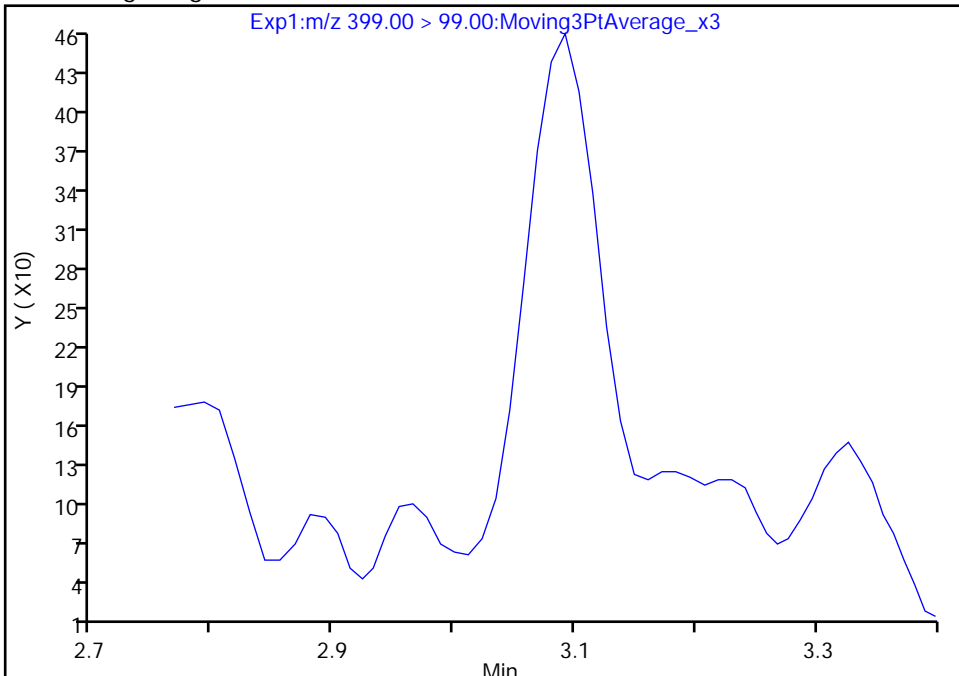
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

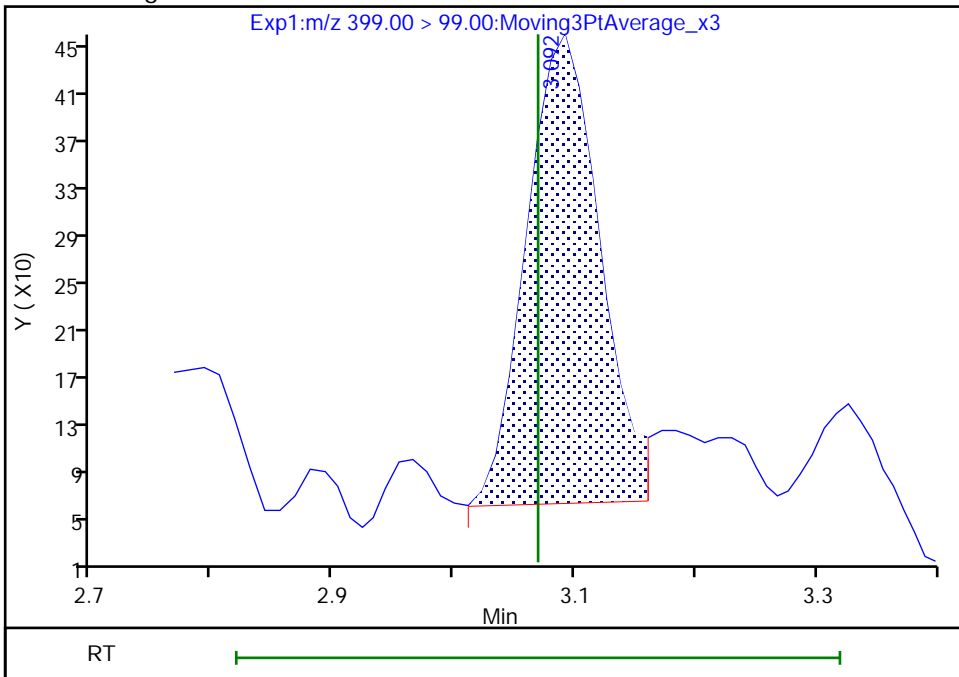
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 1630
Amount: 0.005195
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:20:34
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

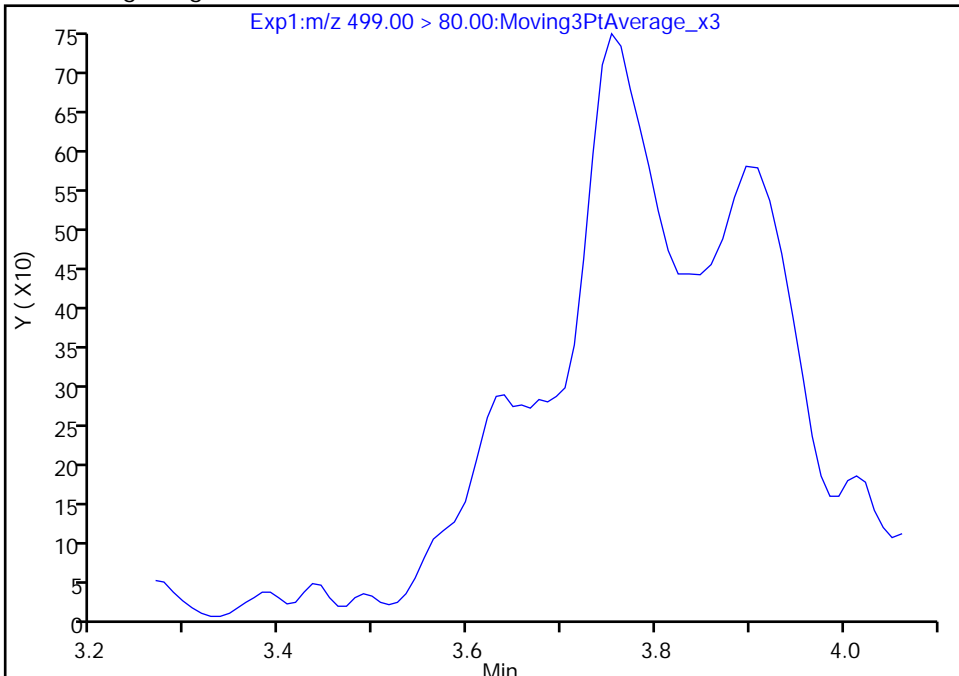
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A11.d
Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

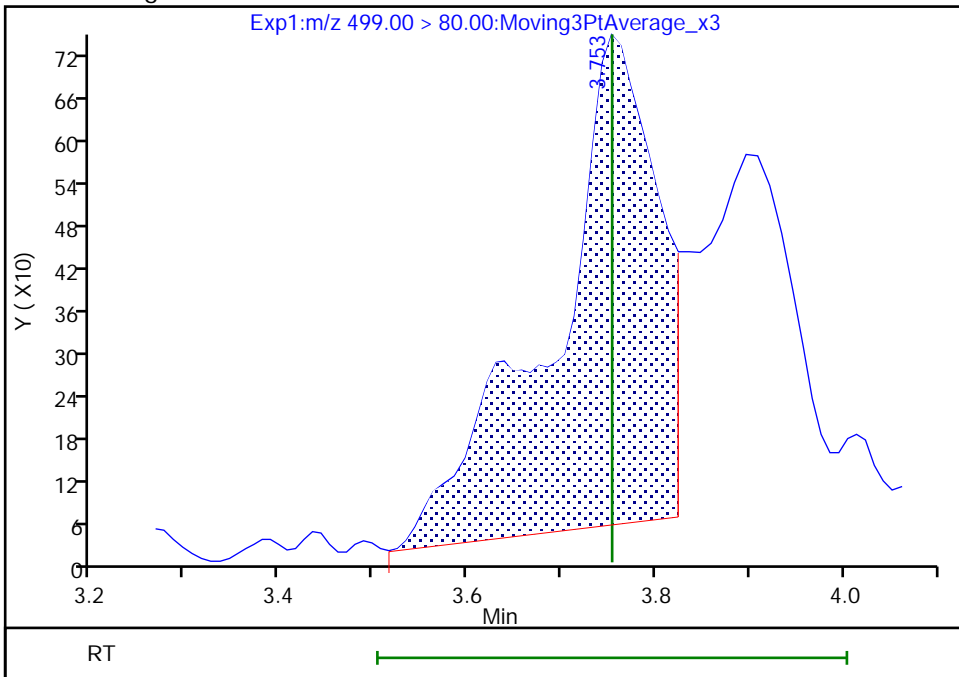
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 5400
Amount: 0.009201
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:22:09
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

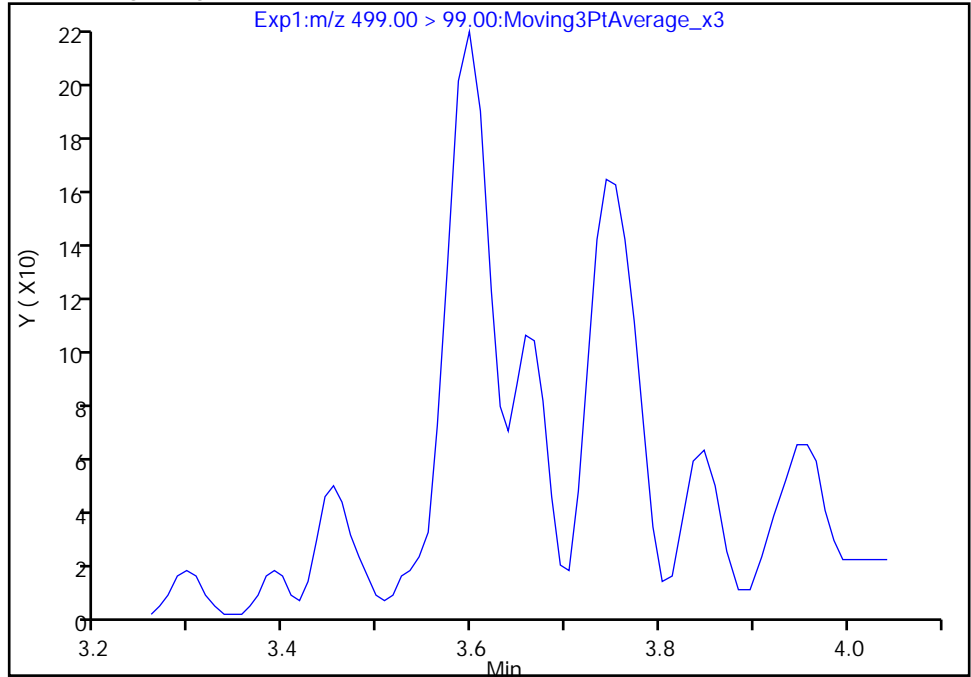
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

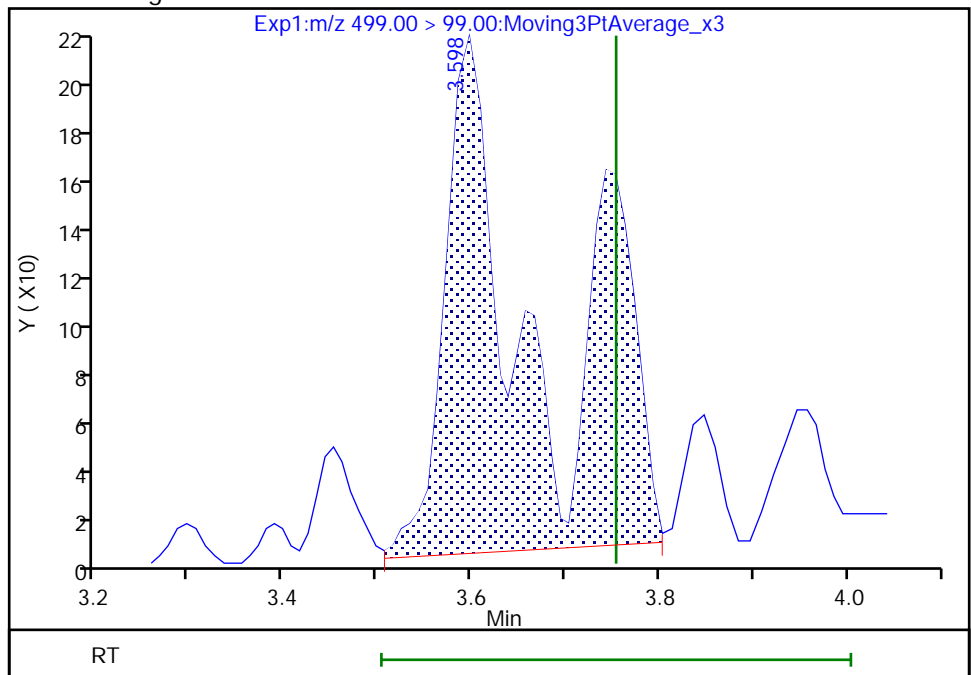
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.60
Area: 1462
Amount: 0.009201
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:22:13

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

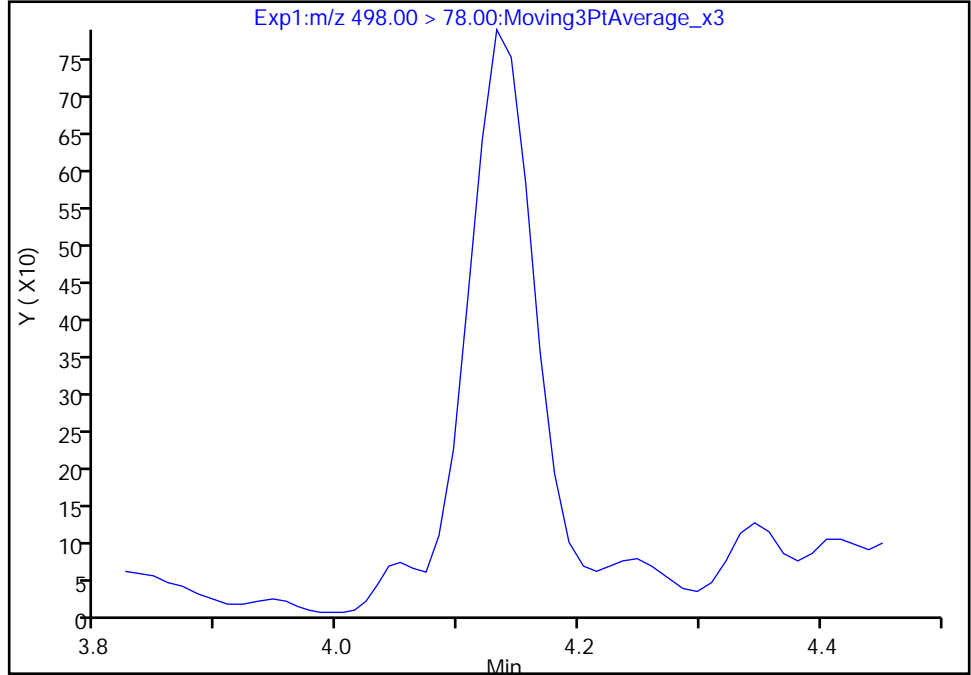
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

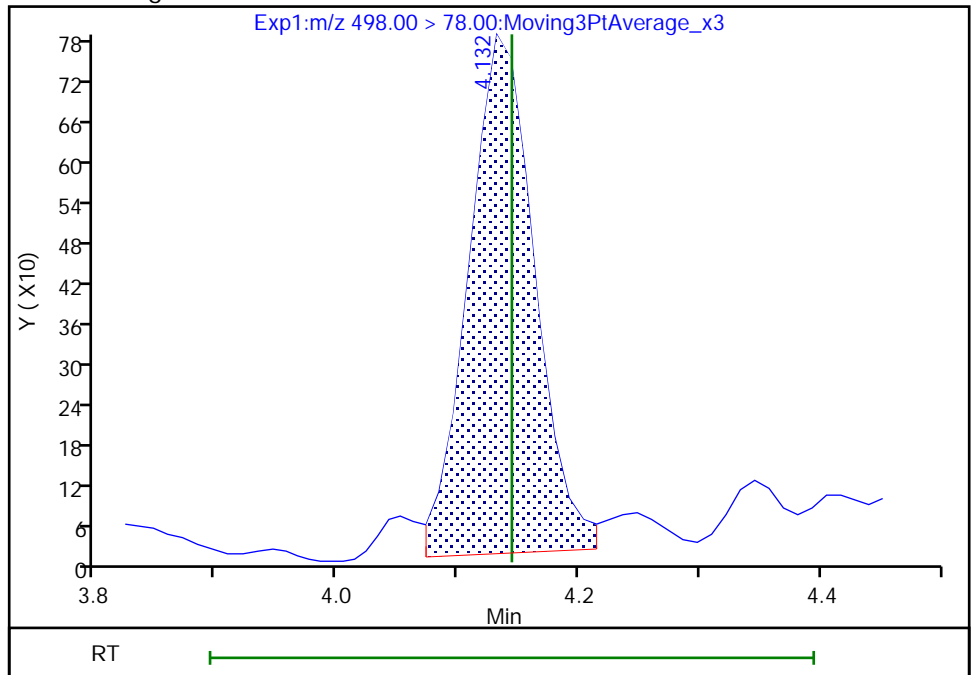
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 2916
Amount: 0.003406
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 13:22:57
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

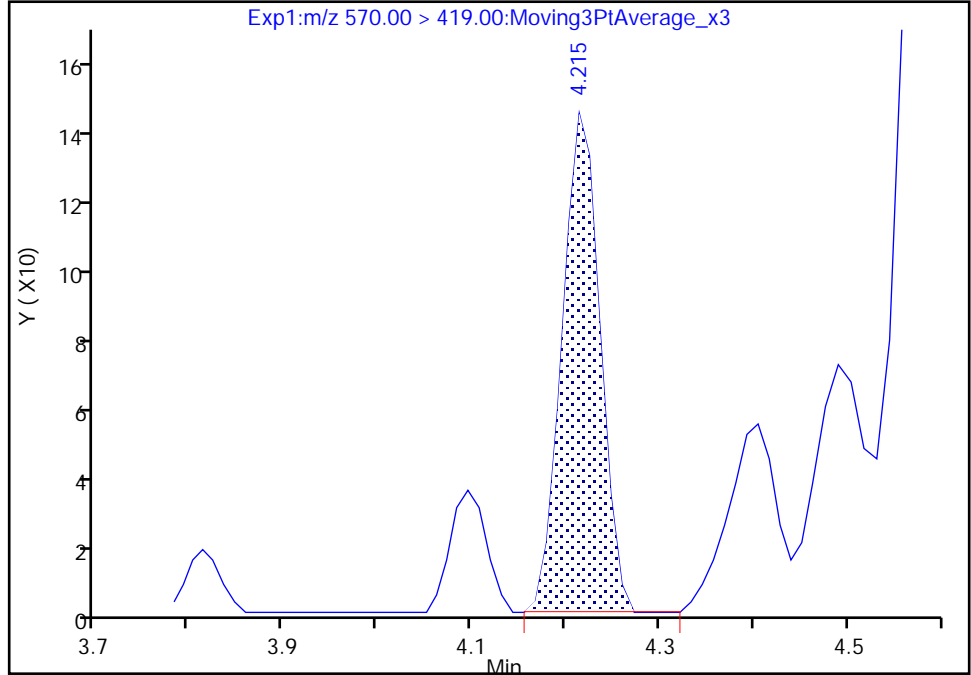
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A11.d
Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul 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

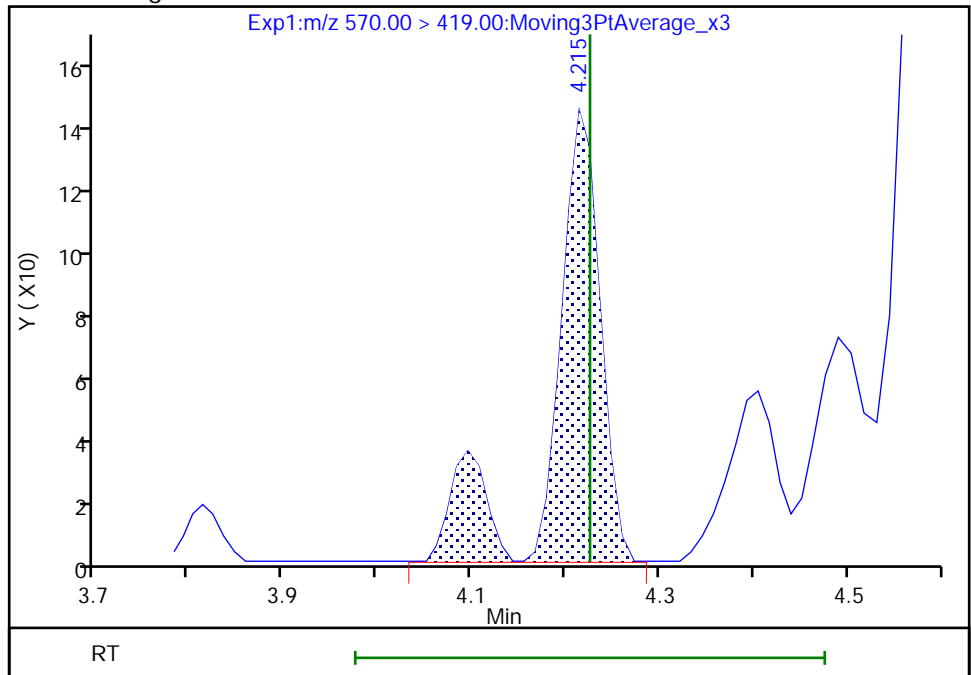
RT: 4.21
Area: 401
Amount: 0.001602
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 495
Amount: 0.001978
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:23:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

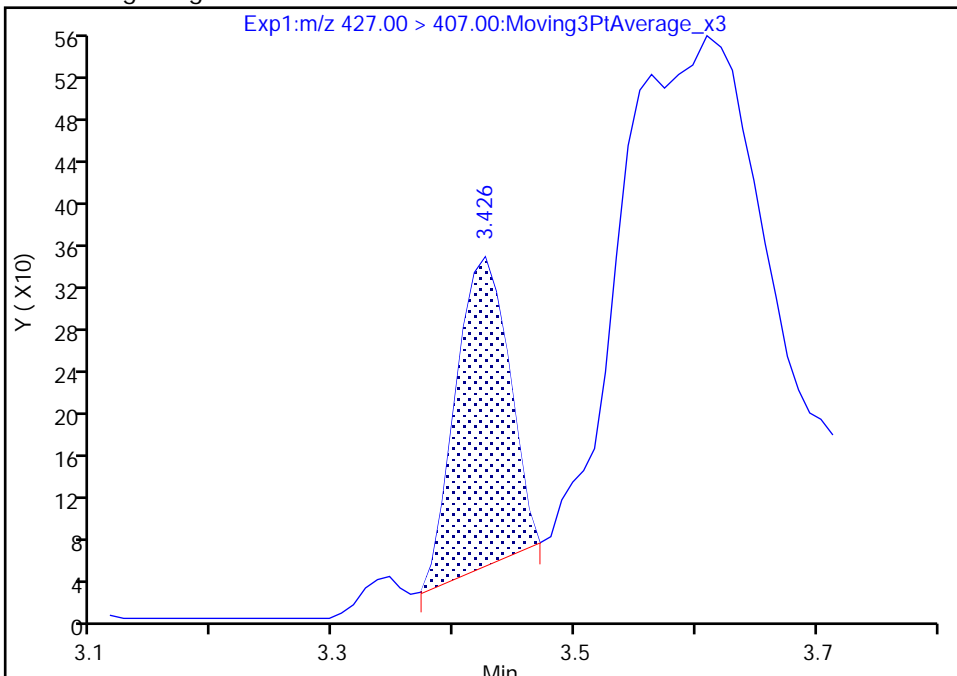
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Injection Date: 26-Jan-2023 21:08:07 Instrument ID: LC812
Lims ID: 460-273105-A-2-A Lab Sample ID: 200-273105-2
Client ID: BCS-09-49_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

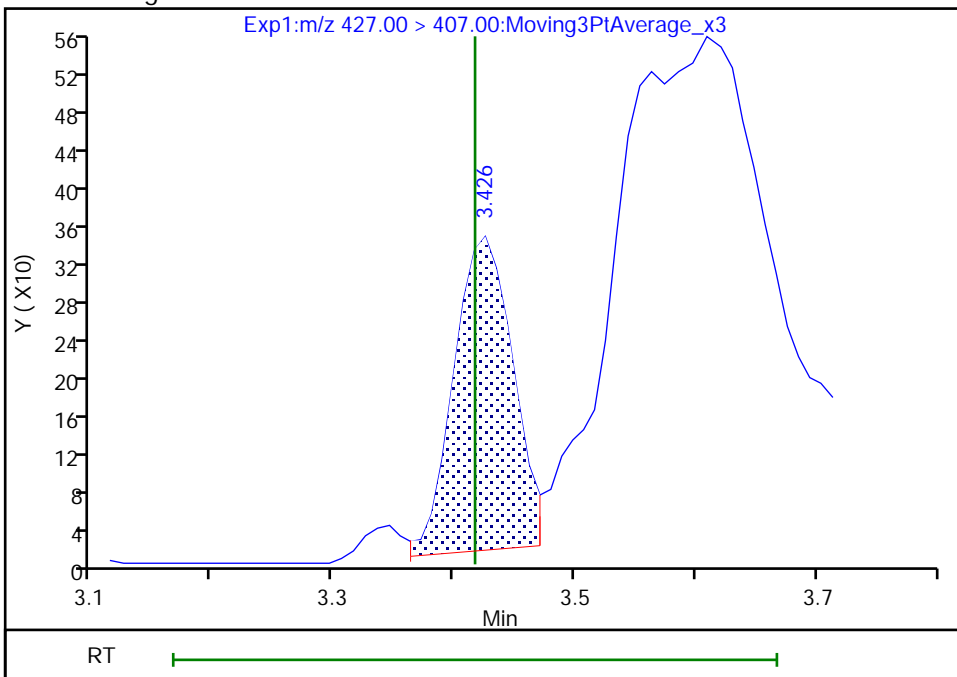
RT: 3.43
Area: 907
Amount: 0.002854
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1117
Amount: 0.003515
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:21:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-50_(15-15.5)P Lab Sample ID: 460-273105-3
 Matrix: Solid Lab File ID: PA230126A12.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.27(g) Date Analyzed: 01/26/2023 21:16
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 37.8 % Solids: 62.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.50
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.10	J	0.31	0.084
307-24-4	Perfluorohexanoic acid (PFHxA)	0.14	J	0.31	0.070
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.064	J	0.31	0.059
335-67-1	Perfluorooctanoic acid (PFOA)	0.31	U	0.31	0.088
375-95-1	Perfluorononanoic acid (PFNA)	0.31	U	0.31	0.052
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	0.31	0.043
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.31	U	0.31	0.041
307-55-1	Perfluorododecanoic acid (PFDoA)	0.31	U	0.31	0.038
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.31	U	0.31	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.31	U	0.31	0.040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.31	U	0.31	0.050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.31	U	0.31	0.063
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.31	U	0.31	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.27	J	0.31	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	0.31	0.029
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.31	U	0.31	0.052
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.05	U	3.05	0.17
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.05	U	3.05	0.13
27619-97-2	6:2 FTS	3.05	U	3.05	0.087
39108-34-4	8:2 FTS	3.05	U	3.05	0.056

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-50_(15-15.5)P Lab Sample ID: 460-273105-3
 Matrix: Solid Lab File ID: PA230126A12.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:35
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.27(g) Date Analyzed: 01/26/2023 21:16
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 37.8 % Solids: 62.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	57		50-150
STL01892	13C4 PFHpA	63		50-150
STL00990	13C4 PFOA	72		50-150
STL00991	13C4 PFOS	59		50-150
STL00995	13C5 PFNA	62		50-150
STL00992	13C4 PFBA	70		50-150
STL00993	13C2 PFHxA	71		50-150
STL00996	13C2 PFDA	65		50-150
STL00997	13C2 PFUnA	69		50-150
STL00998	13C2 PFDoA	61		50-150
STL01056	13C8 FOSA	45	*	50-150
STL01893	13C5 PFPeA	72		50-150
STL02116	13C2 PFTeDA	58		50-150
STL02118	d3-NMeFOSAA	78		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	102		50-150
STL02280	M2-8:2 FTS	105		50-150
STL02337	13C3 PFBS	54		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A12.d
 Lims ID: 460-273105-A-3-A
 Client ID: BCS-09-50_(15-15.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 21:16:16 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-3-A
 Misc. Info.: 200-0054135-012 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 30-Jan-2023 16:02:30 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: khanphomeea Date: 27-Jan-2023 11:59:57
 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	2.077	2.094	-0.017	0.605	1556863	0.8726	69.8	8623	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.068	2.094	-0.026	0.996	99053	0.0405		5.0		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.694	1305352	0.9050	72.4	3285	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	40783	0.0341		0.6		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	997286	0.6298	54.2	38150	M
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.411	2.384	0.027	1.006	5645	0.006142	Target=2.10	0.4		RM
298.90 > 99.00	2.397	2.384	0.013	1.000	1493		3.78(1.05-3.15)	0.0		M
D 7 13C2 PFHxA	315.00 > 270.00	2.718	2.694	0.024	0.791	1322451	0.8824	70.6	6908	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.718	2.706	0.012	1.000	49621	0.0445	Target=13.16	2.6		M
313.00 > 119.00	2.718	2.706	0.012	1.000	3071		16.16(6.58-19.74)	1.2		M
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.897	781578	0.6784	57.4	3576	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.068	3.069	-0.001	0.996	6897	0.009506	Target=3.18	0.6		RM
399.00 > 99.00	3.091	3.069	0.022	1.004	13055		0.53(1.59-4.77)	1.2		M
D 9 13C4 PFHpA	367.00 > 322.00	3.080	3.069	0.011	0.897	1176081	0.7838	62.7	6247	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.080	3.069	0.011	1.000	20886	0.0208	Target=4.10	1.8		M
363.00 > 169.00	3.080	3.069	0.011	1.000	4132		5.05(2.05-6.16)	6.7		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	3.425	3.417	0.008	0.997	219269	1.21		102	68.9	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.425	3.417	0.008	1.000	2009	0.004751		3.5		M
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	1.000	1433621	0.9018		72.1	6208	
* 62 13C2 PFOA										
415.00 > 370.00	3.434	3.426	0.008		1939806	1.25			9348	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.434	3.426	0.008	1.000	22922	0.0184	Target=2.71	1.3		M
413.00 > 169.00	3.434	3.426	0.008	1.000	7362		3.11(1.36-4.07)	9.5		M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.093	494575	0.7060		59.1	86.4	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.524	3.754	-0.230	0.939	44974	0.0895	Target=4.23	5.1		RM
499.00 > 99.00	3.676	3.754	-0.078	0.979	124656		0.36(2.11-6.34)	24.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.099	1209462	0.7809		62.5	5186	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.186	1299134	0.8178		65.4	7173	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.005	4.074	-0.069	0.983	1720	0.001548	Target=11.13	0.4		R
513.00 > 169.00	4.033	4.074	-0.041	0.990	1562		1.10(5.56-16.69)	2.5		R
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.189	286449	1.26		105	80.1	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.132	4.085	0.047	1.012	4925	0.0113		0.8		M
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.203	724176	0.5609		44.9	3568	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.215	4.226	-0.012	1.227	304570	0.9752		78.0	886	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.063	4.226	-0.163	0.964	278	0.001265		0.8		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.265	1178789	0.8597		68.8	5960	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.225	4.358	-0.133	0.972	601	0.002375		2.4		
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.345	4.358	-0.013	1.265	340508	1.13		90.8	711	
D 36 13C2 PFDoA										
615.00 > 570.00	4.583	4.584	-0.001	1.335	1050071	0.7637		61.1	4550	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.454	858434	0.7259		58.1	4559	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A12.d

Injection Date: 26-Jan-2023 21:16:16

Instrument ID: LC812

Lims ID: 460-273105-A-3-A

Lab Sample ID: 200-273105-3

Client ID: BCS-09-50_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

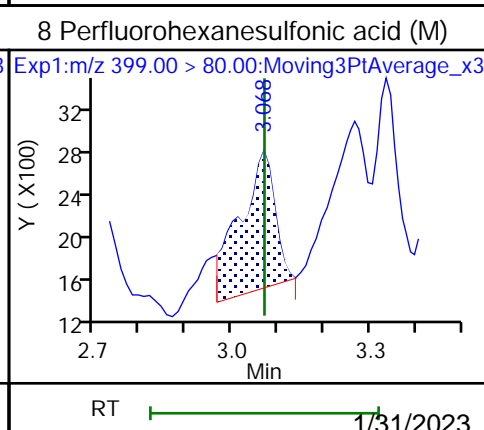
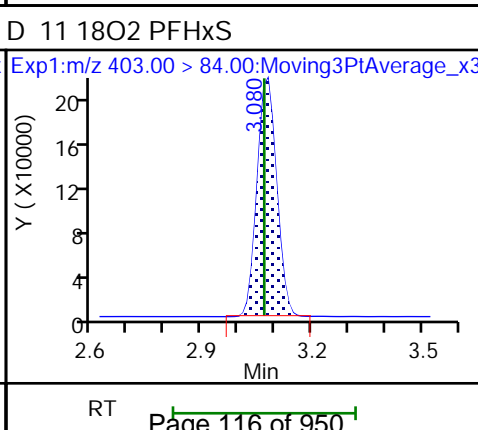
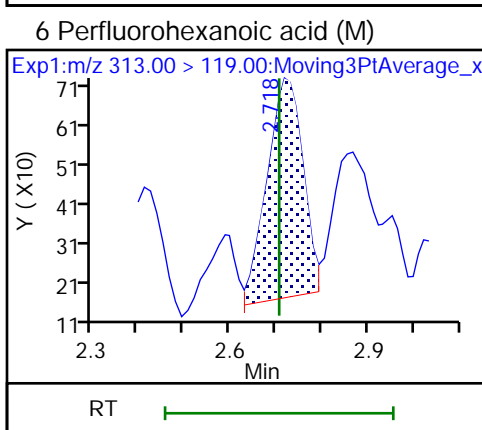
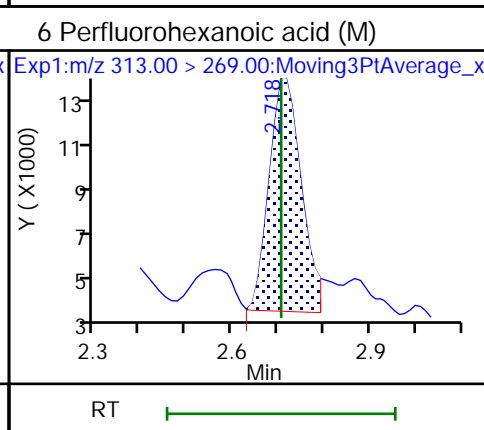
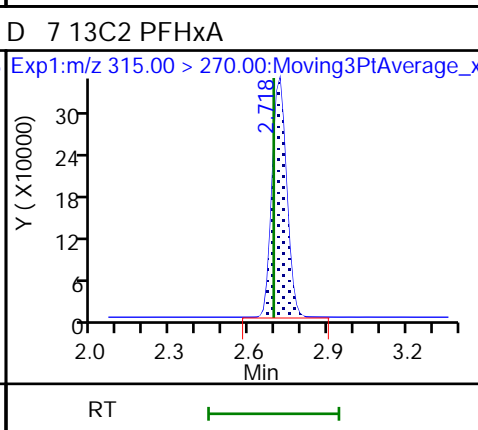
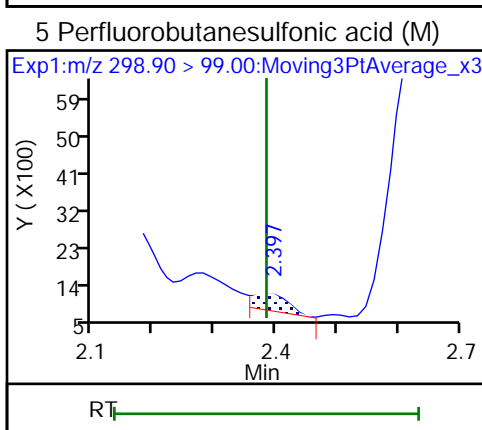
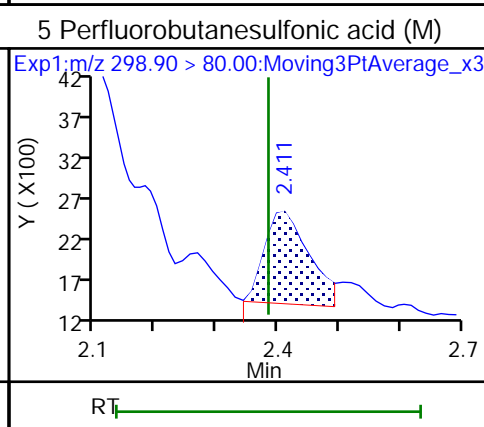
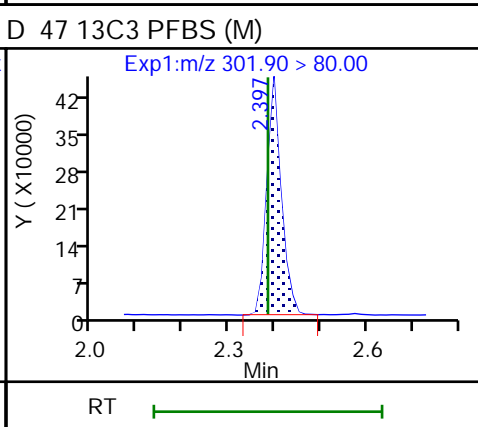
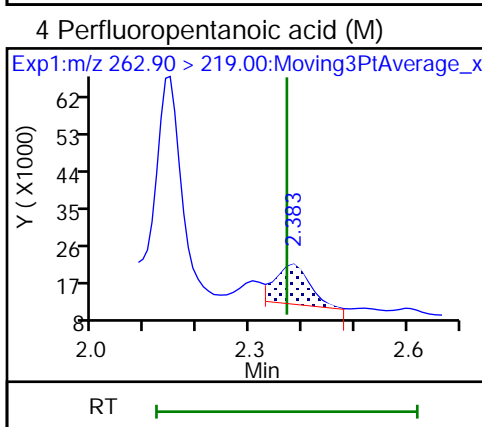
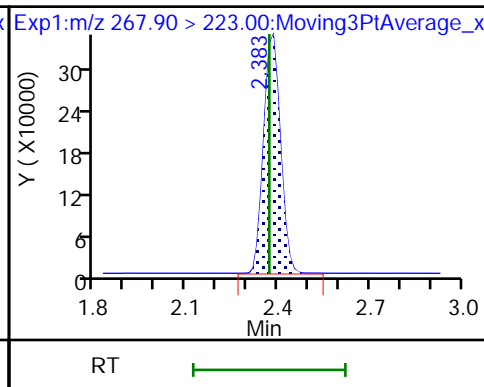
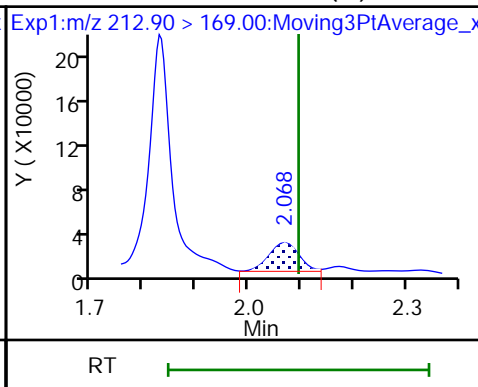
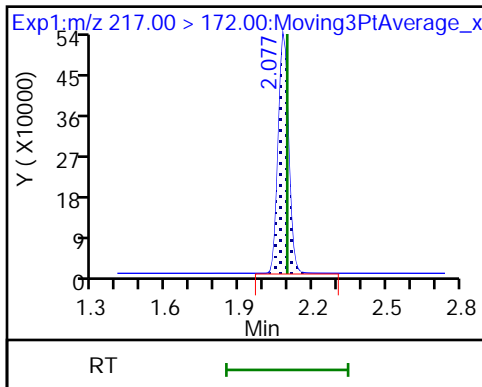
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

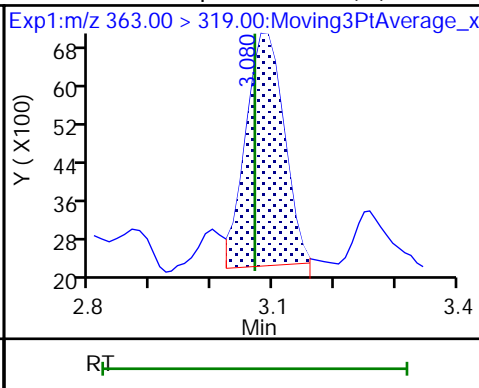
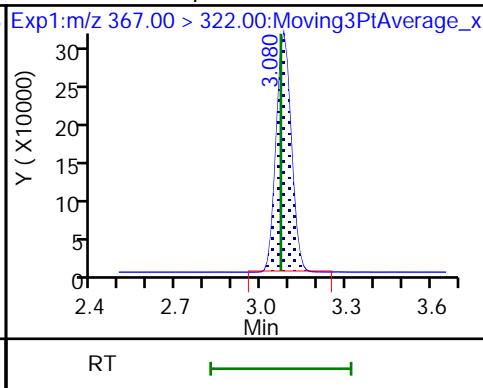
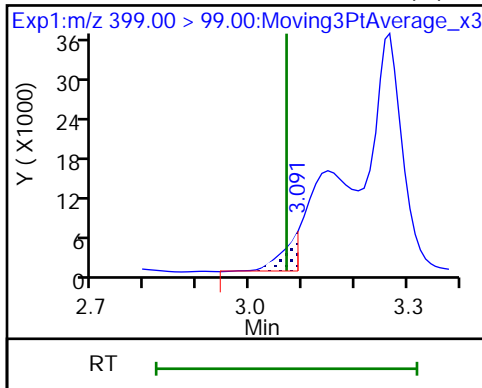
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

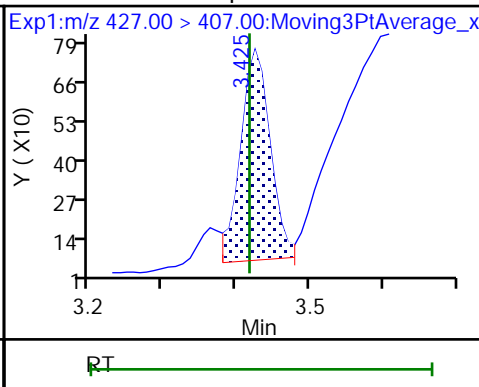
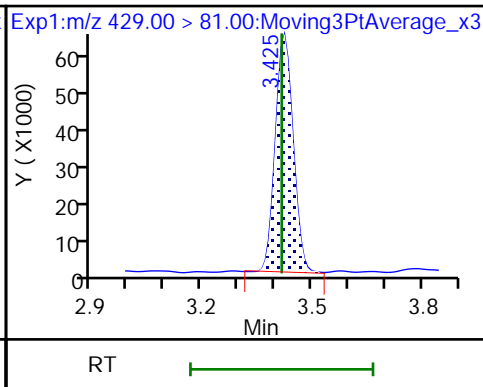
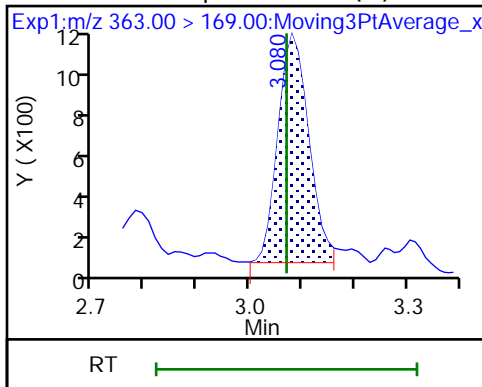
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

D 12 M2-6:2 FTS

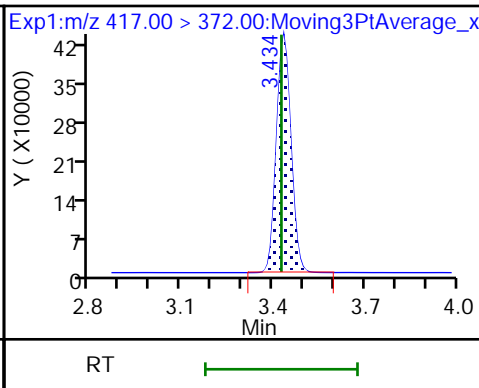
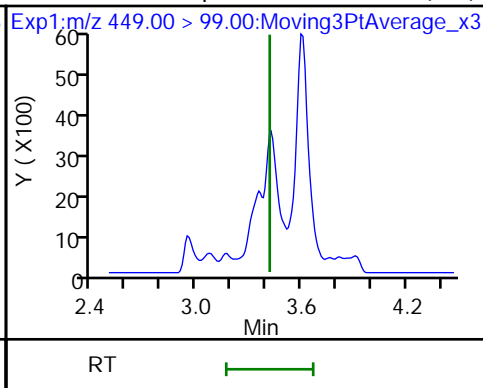
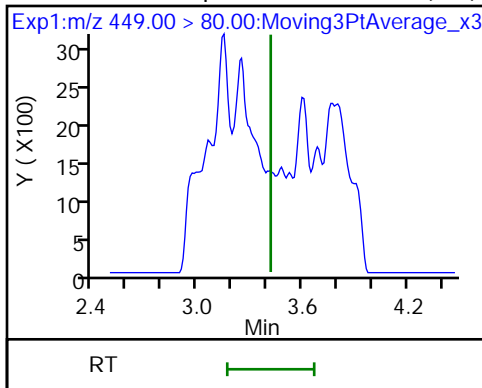
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid (ND)

16 Perfluoroheptanesulfonic acid (ND)

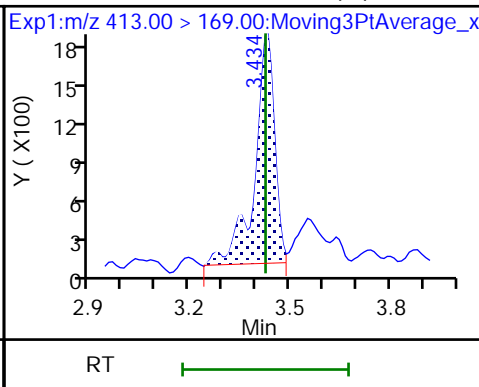
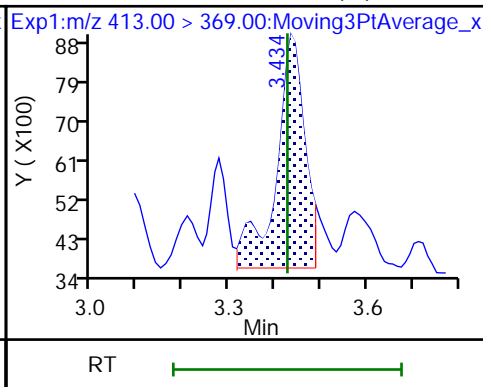
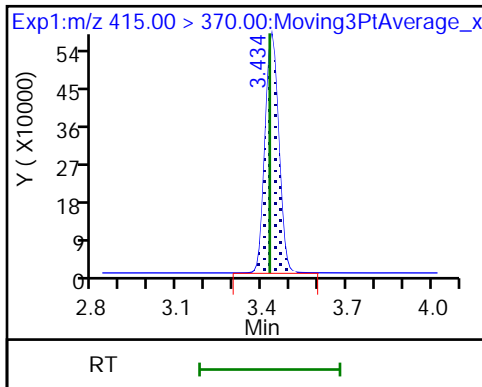
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

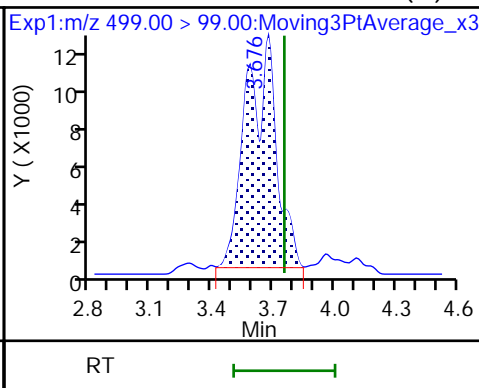
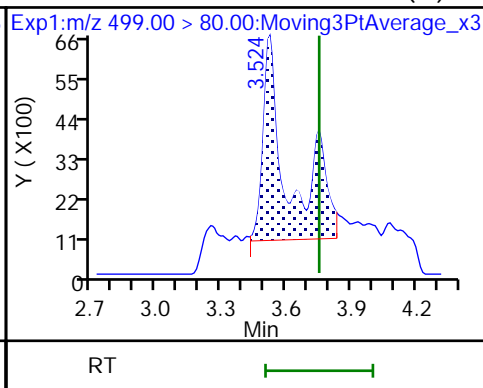
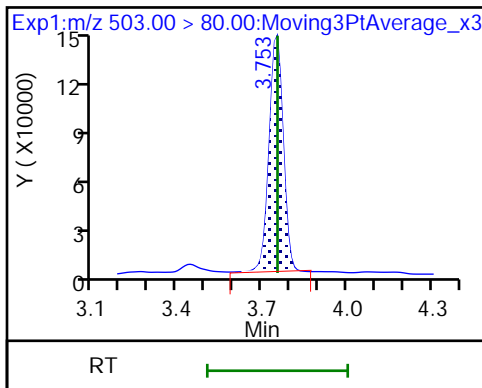
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

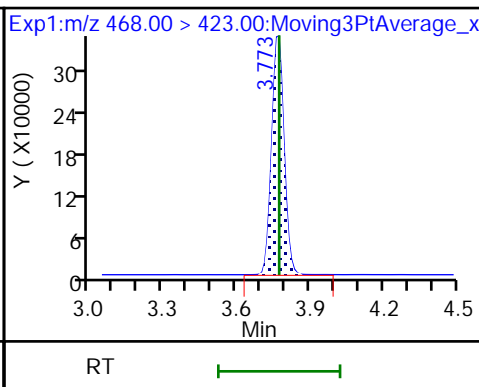
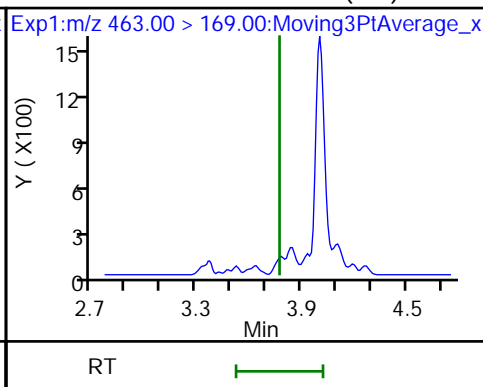
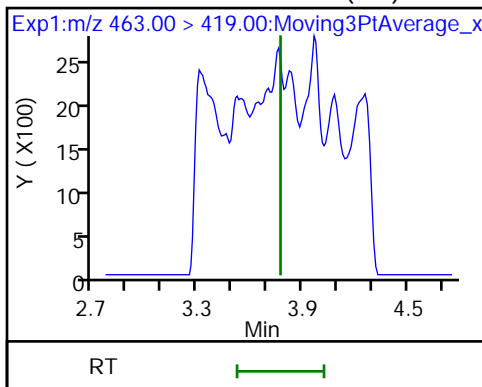
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

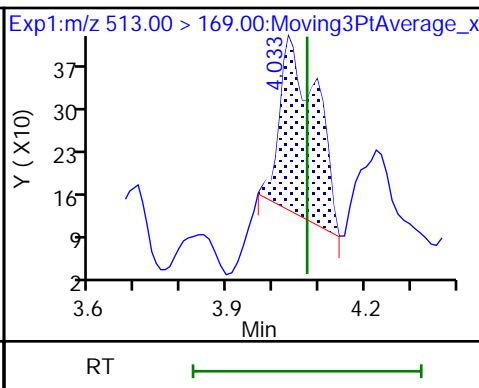
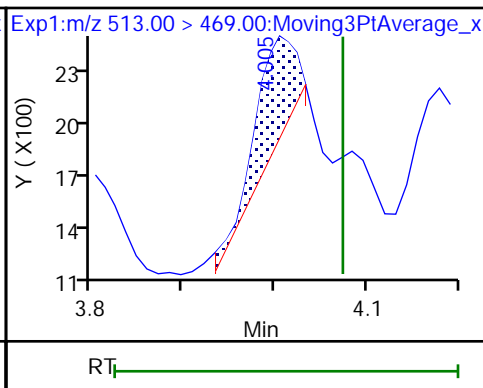
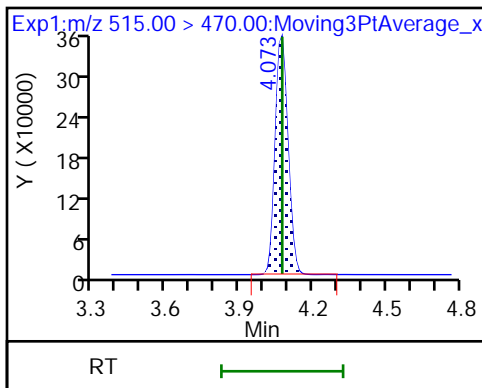
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid

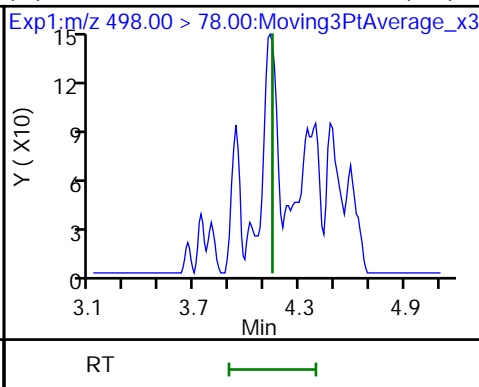
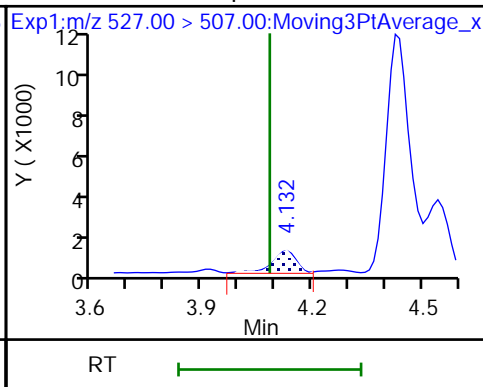
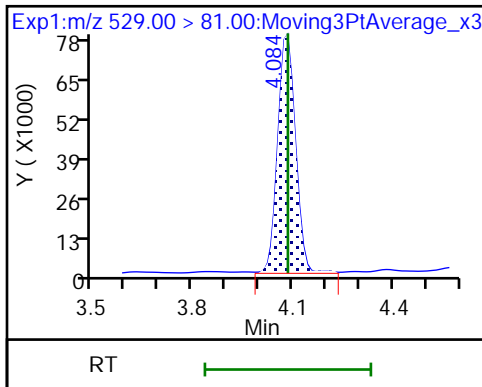
24 Perfluorodecanoic acid



D 26 M2-8:2 FTS

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

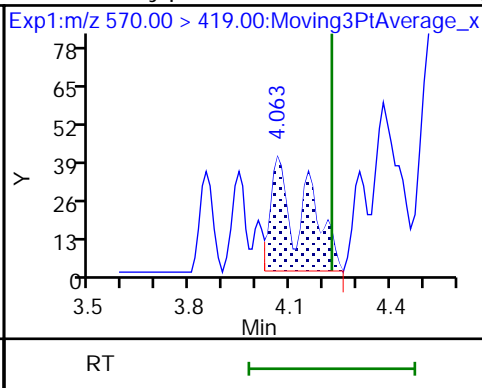
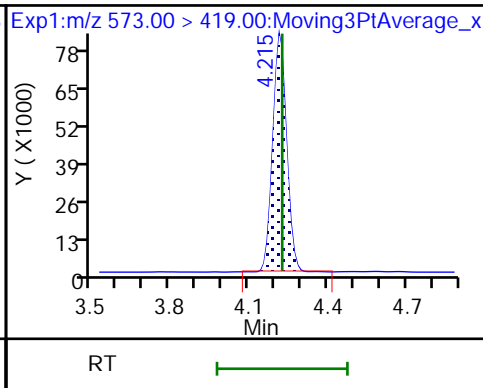
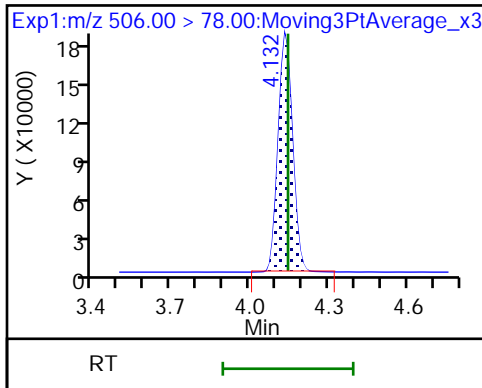
22 Perfluorooctanesulfonamide (ND)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

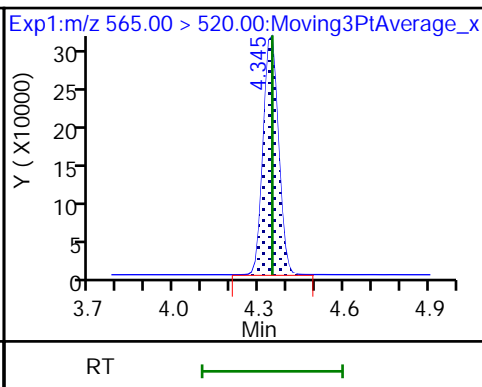
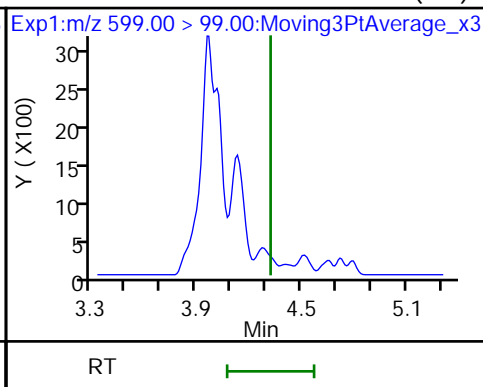
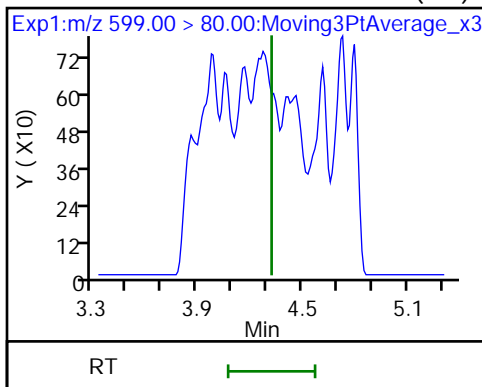
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

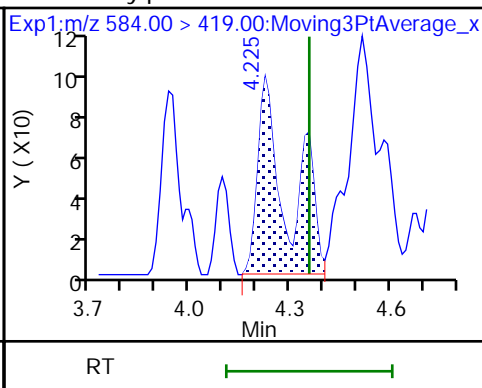
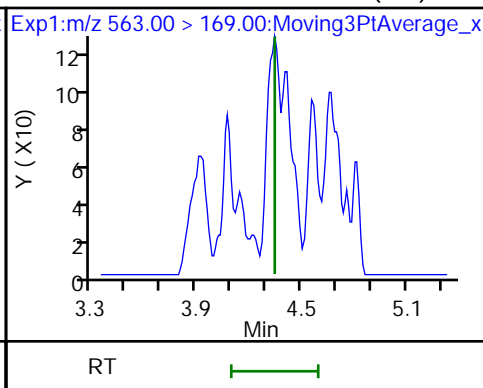
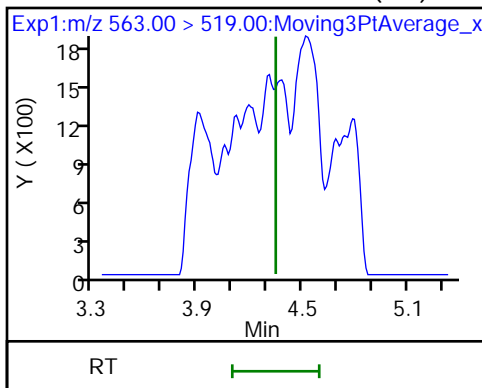
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

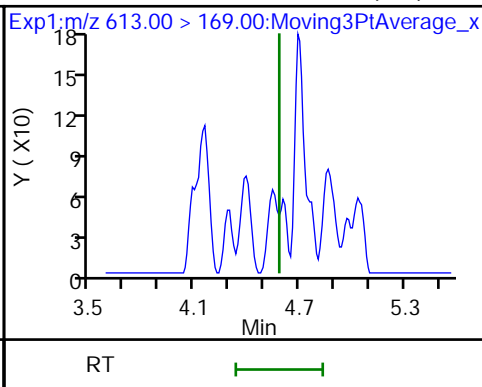
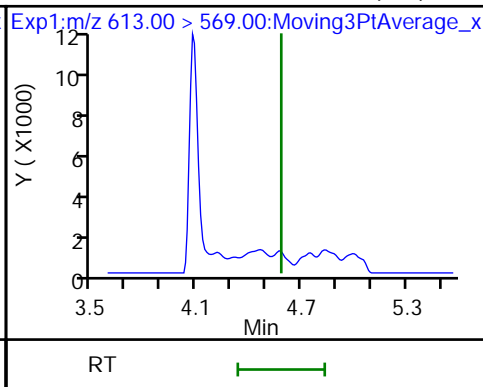
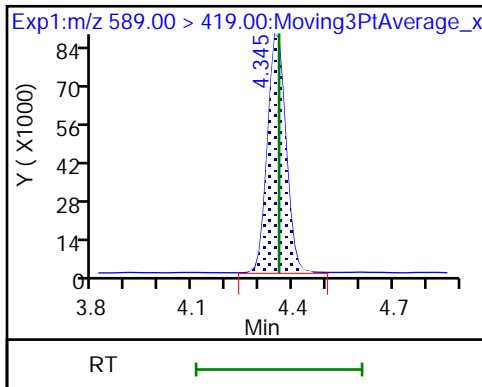
33 N-ethylperfluorooctanesulfonamid



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

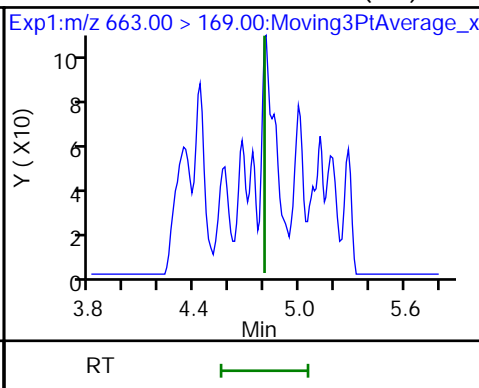
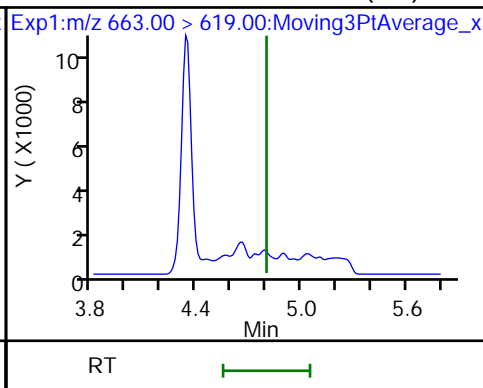
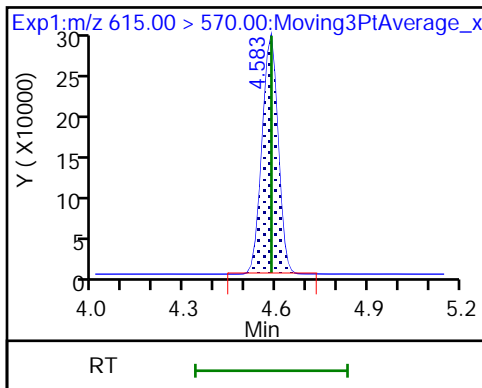
37 Perfluorododecanoic acid (ND)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (ND)

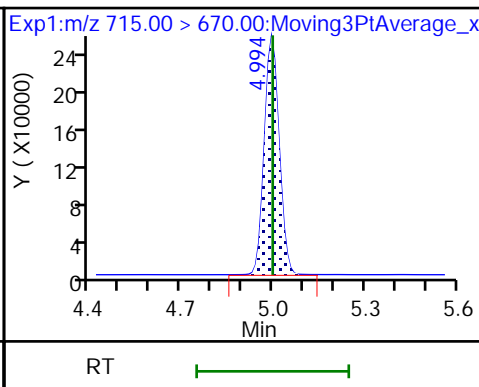
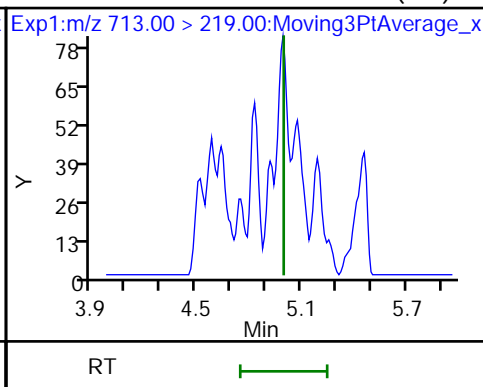
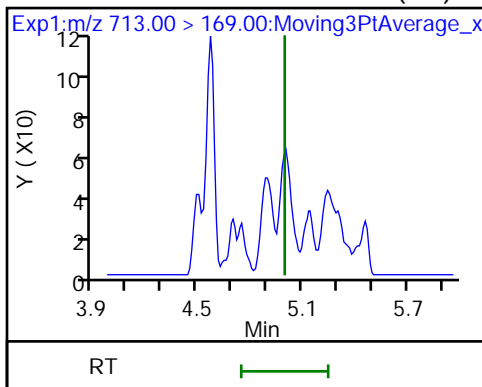
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)

D 43 13C2 PFTeDA



Eurofins Burlington

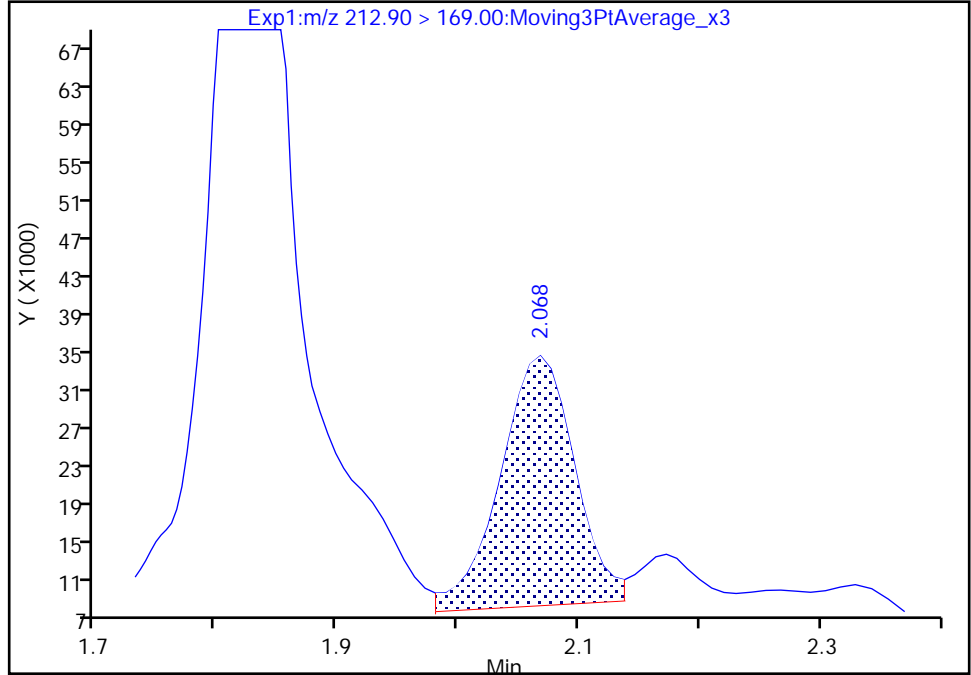
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

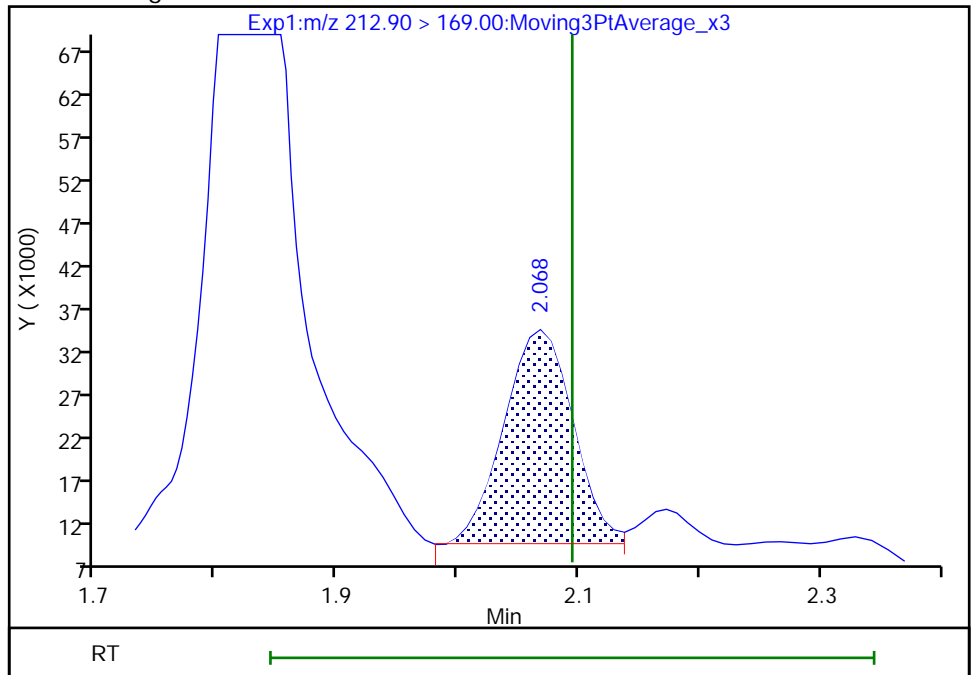
RT: 2.07
Area: 112072
Amount: 0.051582
Amount Units: ng/ml

Processing Integration Results



RT: 2.07
Area: 99053
Amount: 0.040549
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:55:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

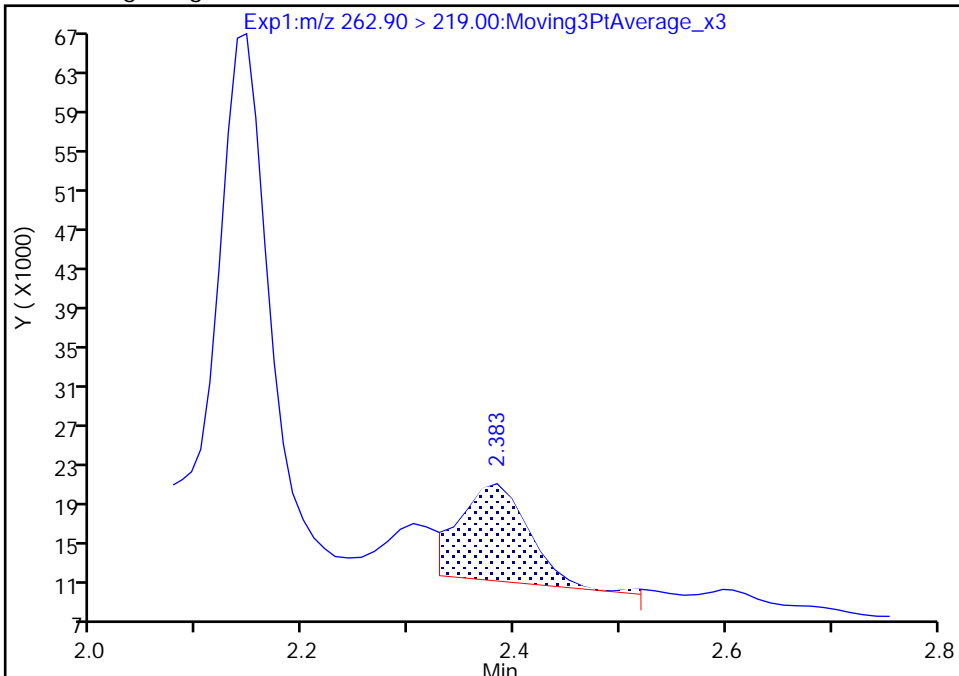
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A12.d
Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul 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

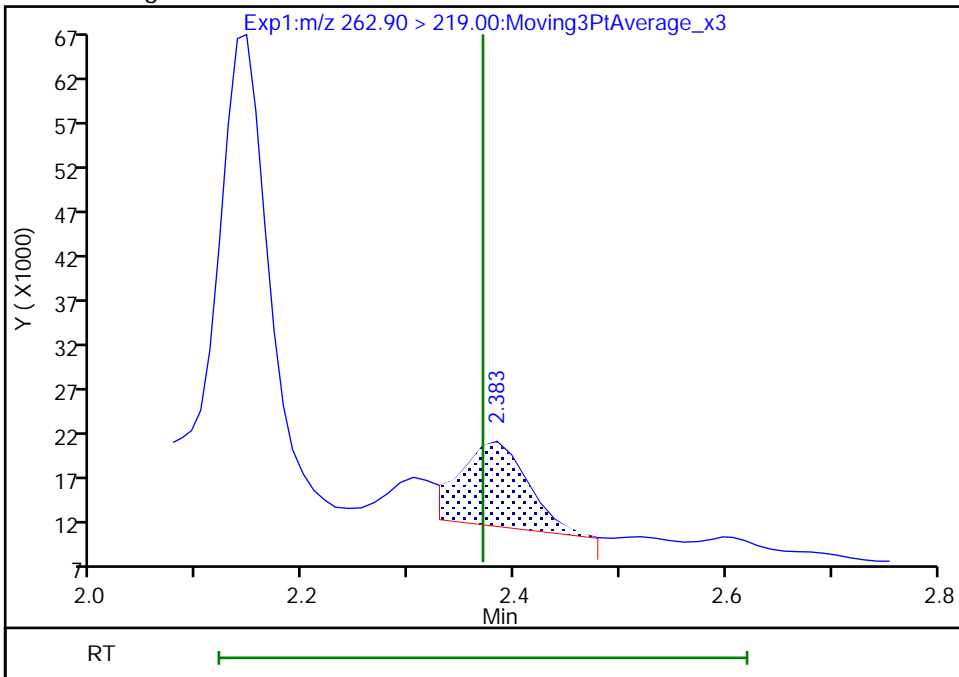
RT: 2.38
Area: 43832
Amount: 0.036649
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 40783
Amount: 0.034100
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:55:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

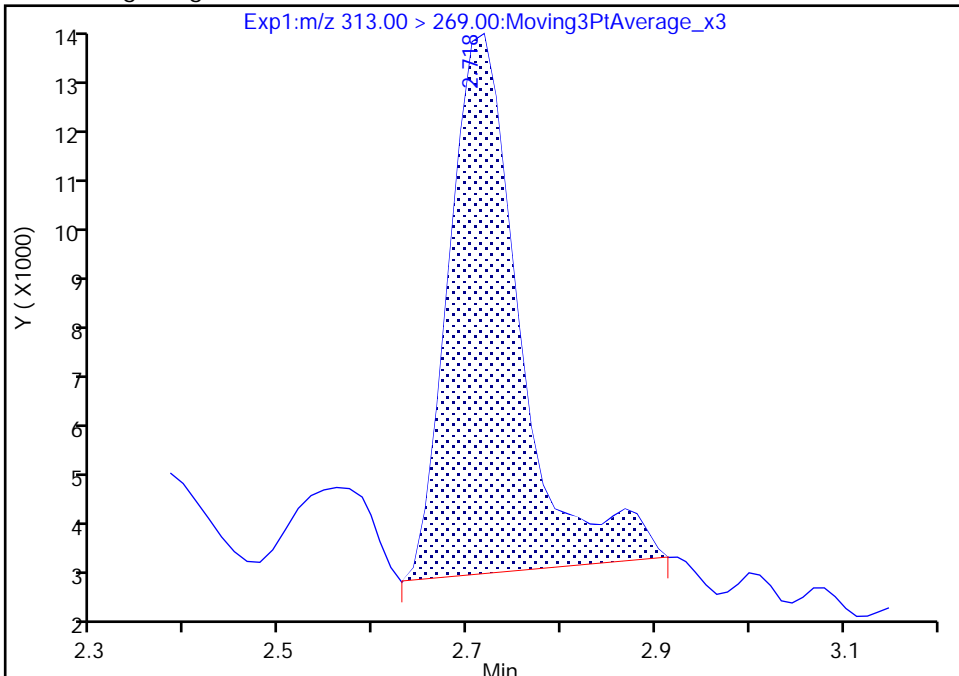
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

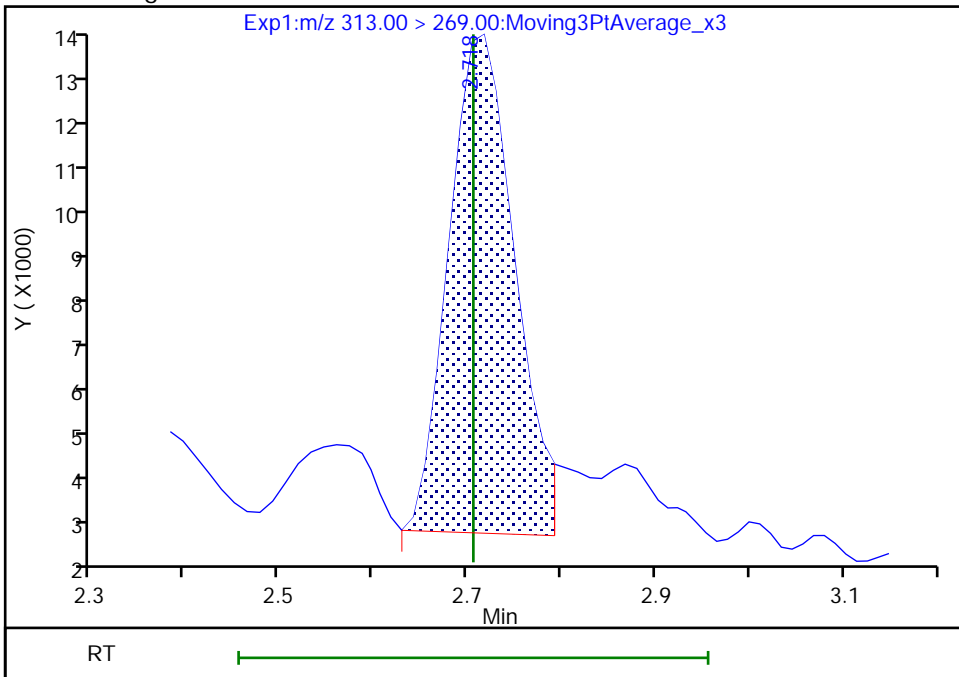
RT: 2.72
Area: 53214
Amount: 0.047743
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 49621
Amount: 0.044519
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:57:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

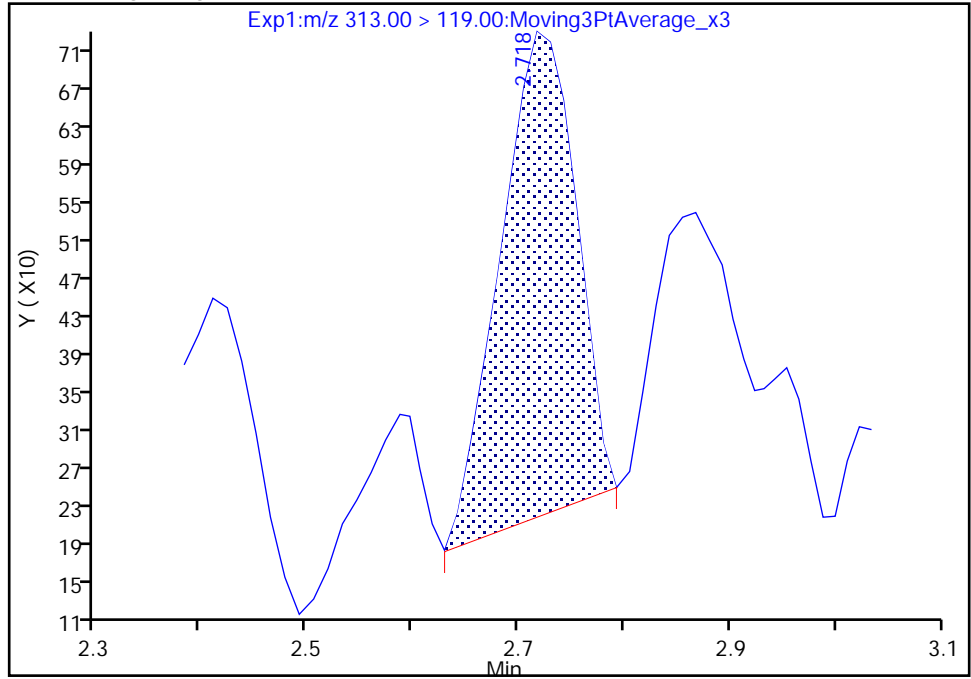
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

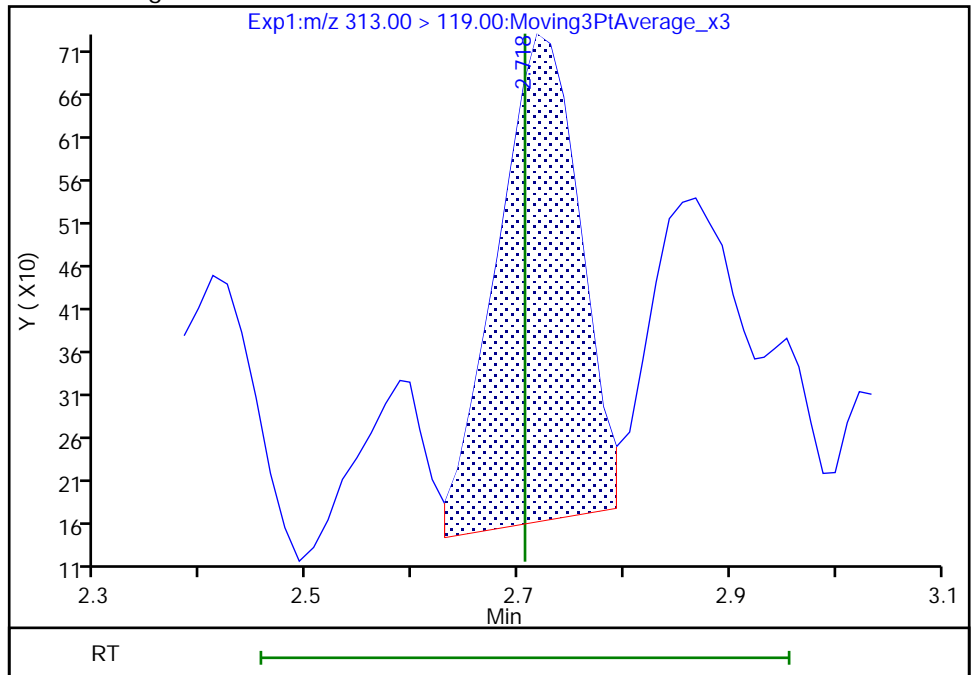
RT: 2.72
Area: 2535
Amount: 0.047743
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 3071
Amount: 0.044519
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:57:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

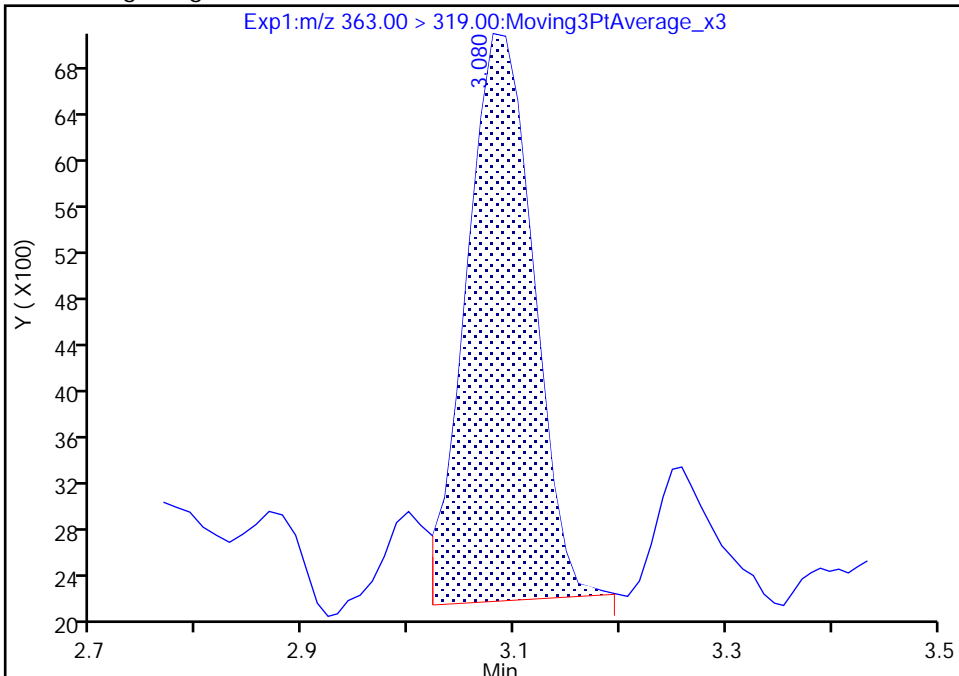
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

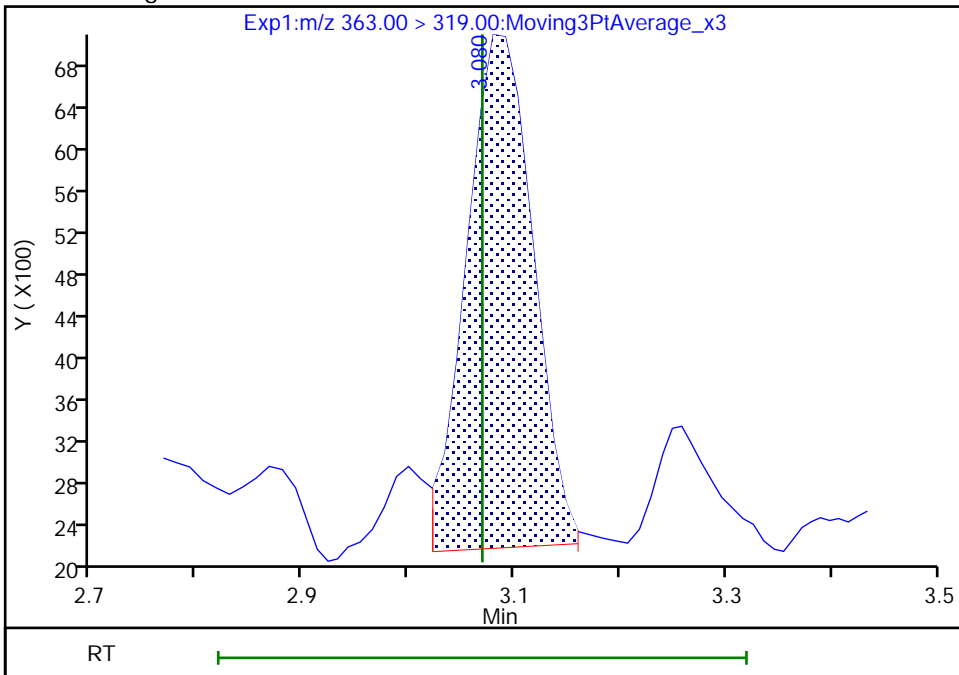
RT: 3.08
Area: 20994
Amount: 0.020953
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 20886
Amount: 0.020846
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:58:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

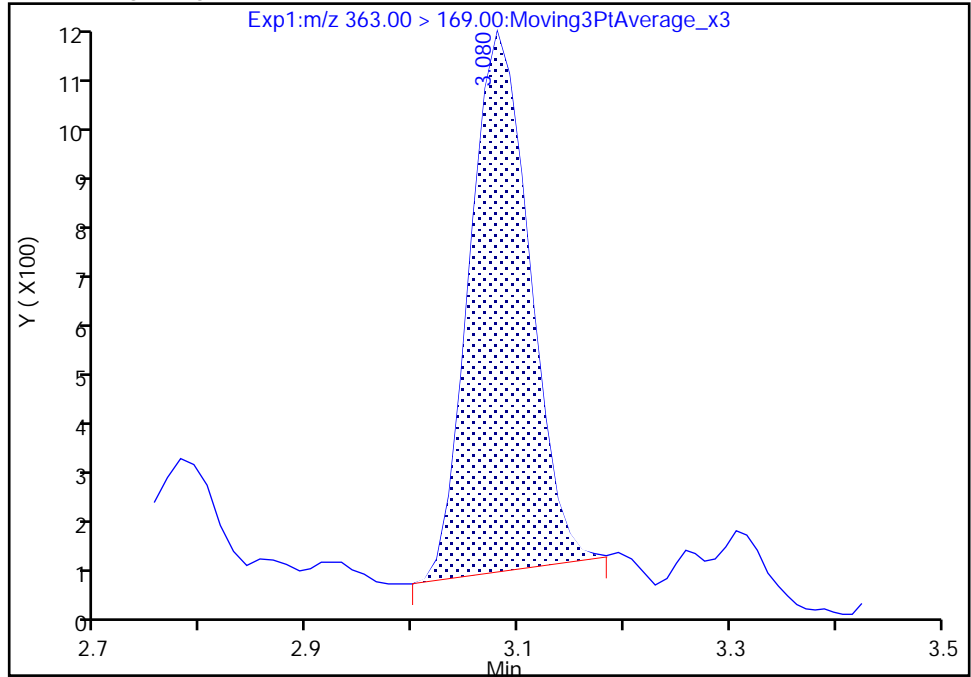
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A12.d
Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

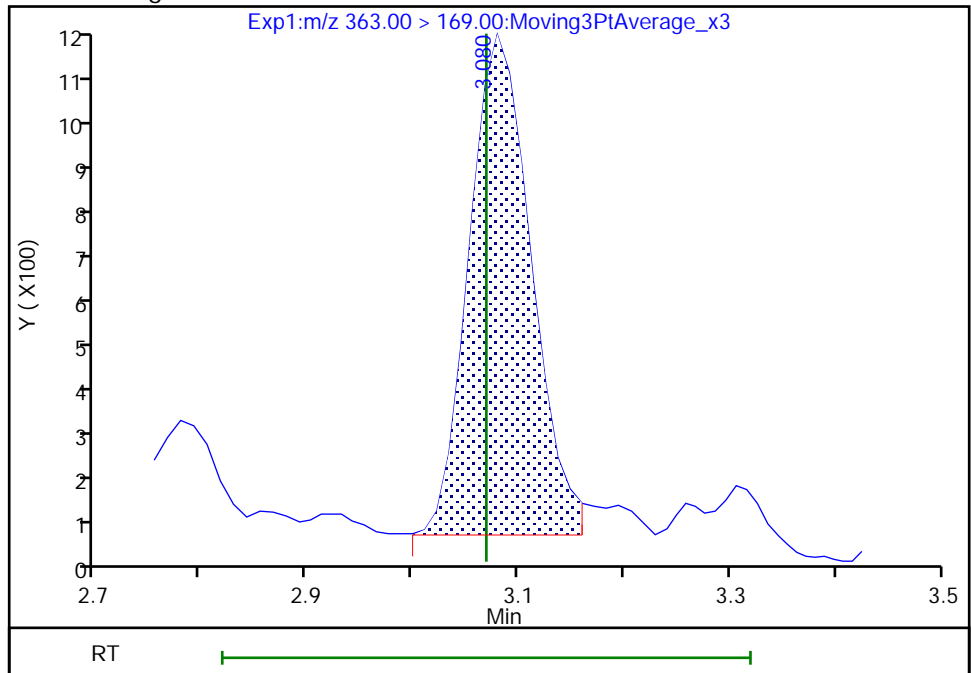
RT: 3.08
Area: 3919
Amount: 0.020953
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 4132
Amount: 0.020846
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:58:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

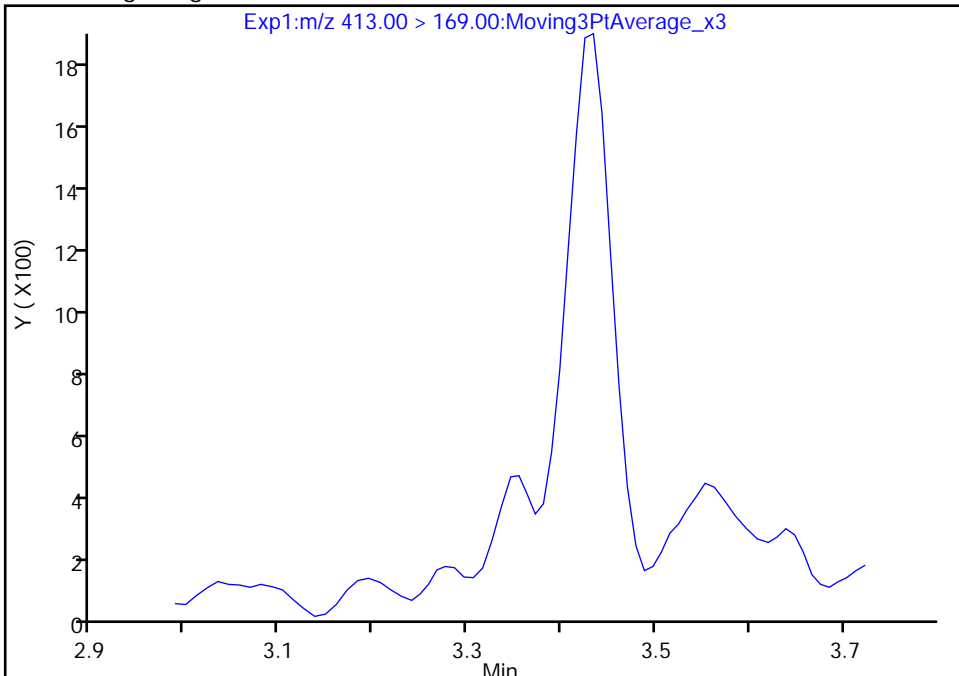
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

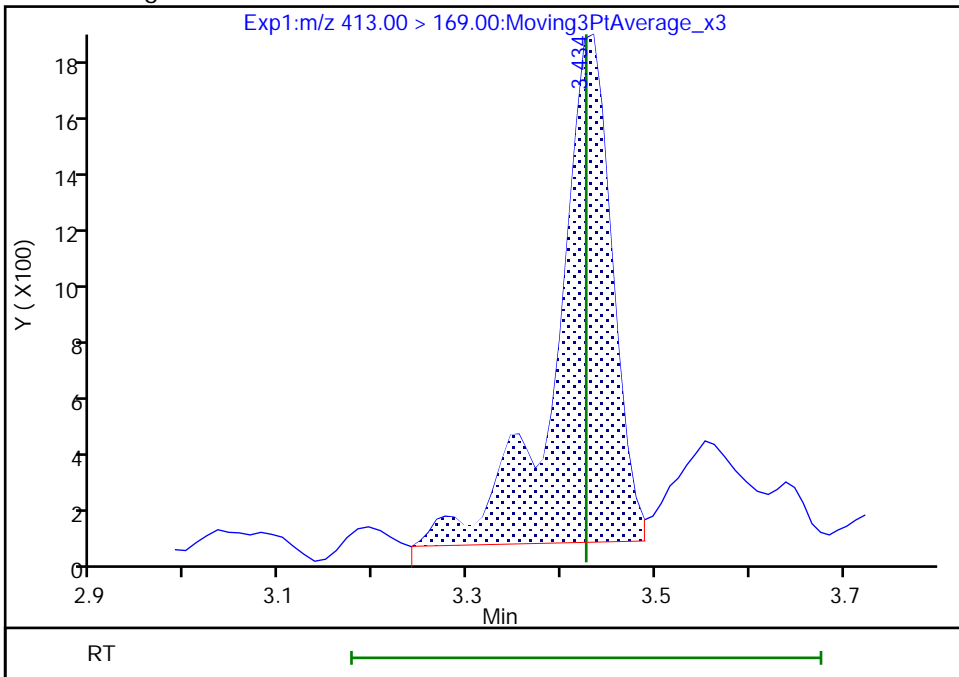
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 7362
Amount: 0.018365
Amount Units: ng/ml



Reviewer: SJ4N, 30-Jan-2023 15:59:26
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

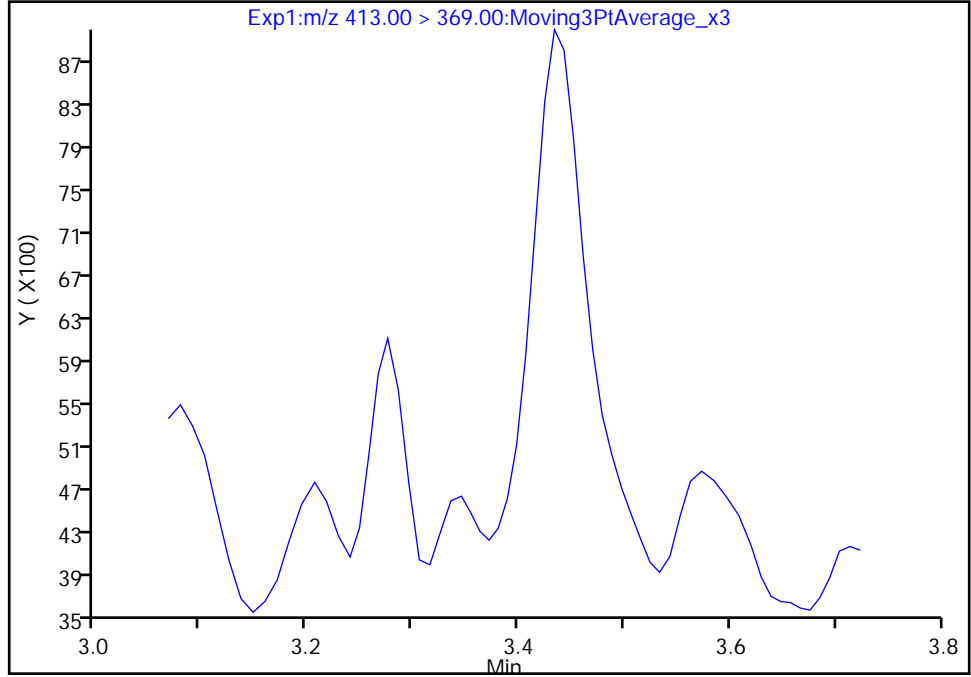
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

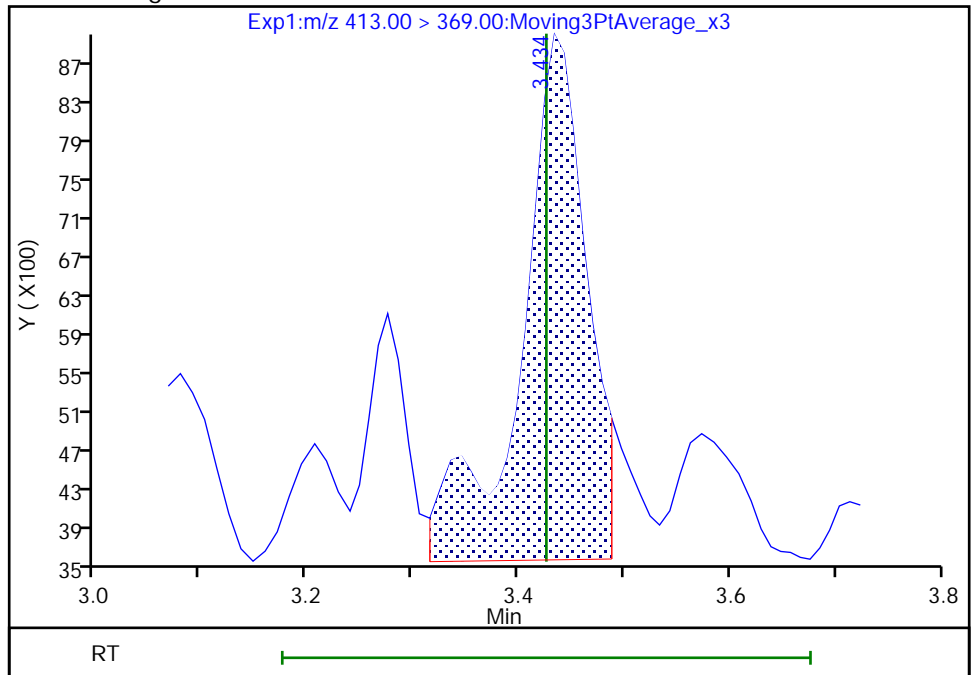
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 22922
Amount: 0.018365
Amount Units: ng/ml



Reviewer: SJ4N, 30-Jan-2023 15:59:47

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

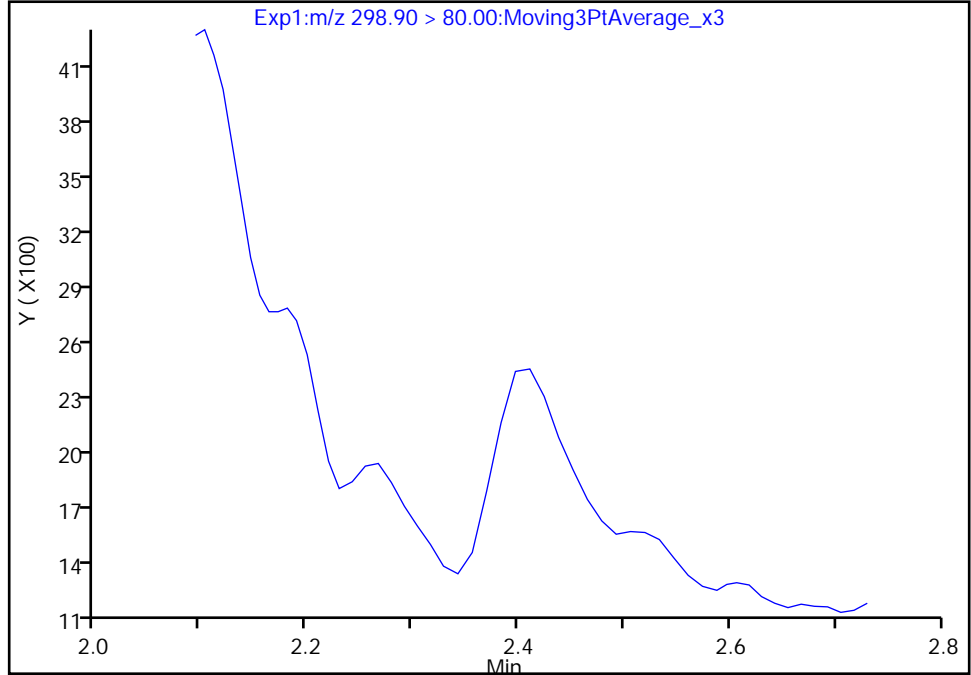
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

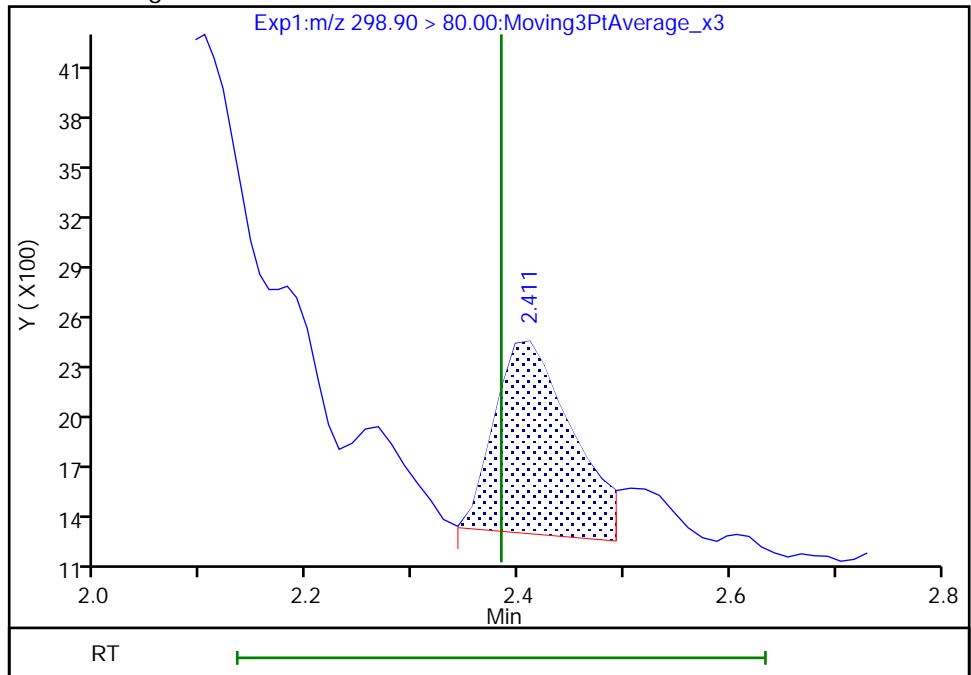
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 5645
Amount: 0.006142
Amount Units: ng/ml



Reviewer: SJ4N, 30-Jan-2023 15:56:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 129 of 950

Eurofins Burlington

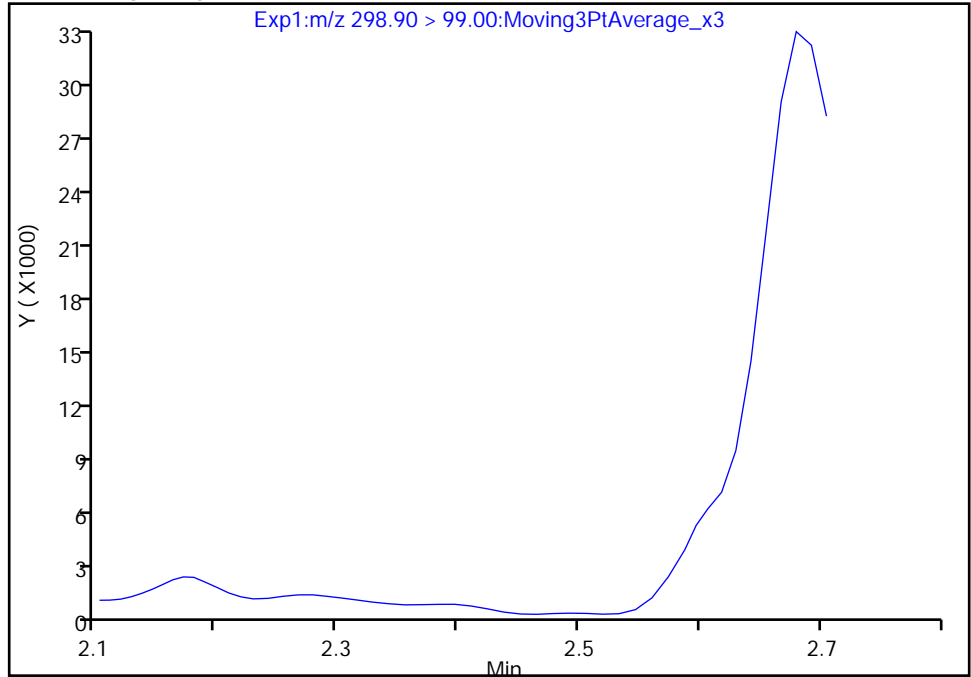
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

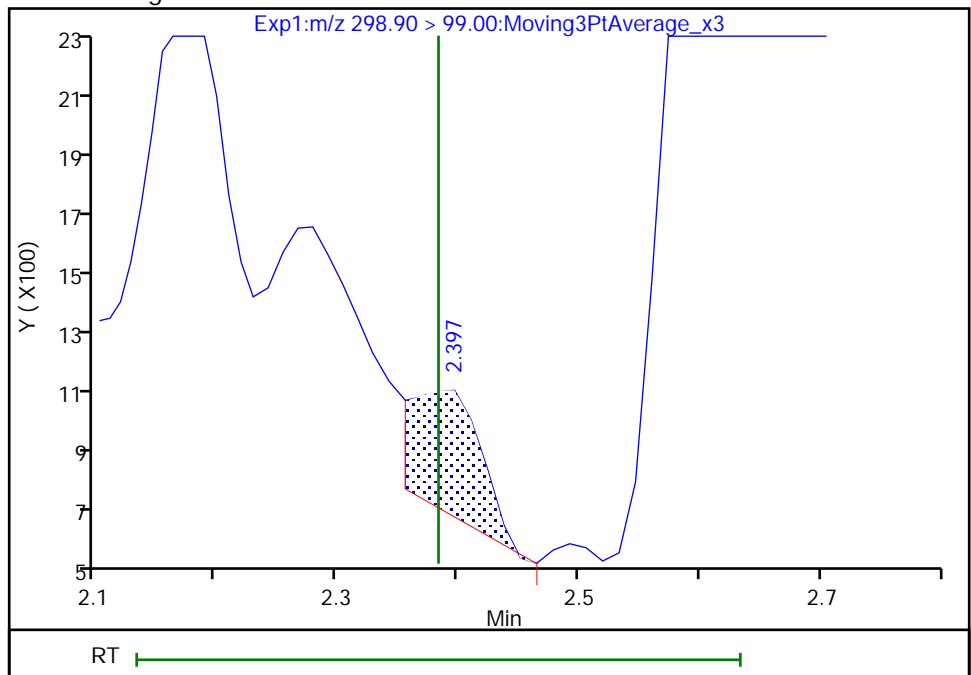
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1493
Amount: 0.006142
Amount Units: ng/ml



Reviewer: SJ4N, 30-Jan-2023 15:56:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

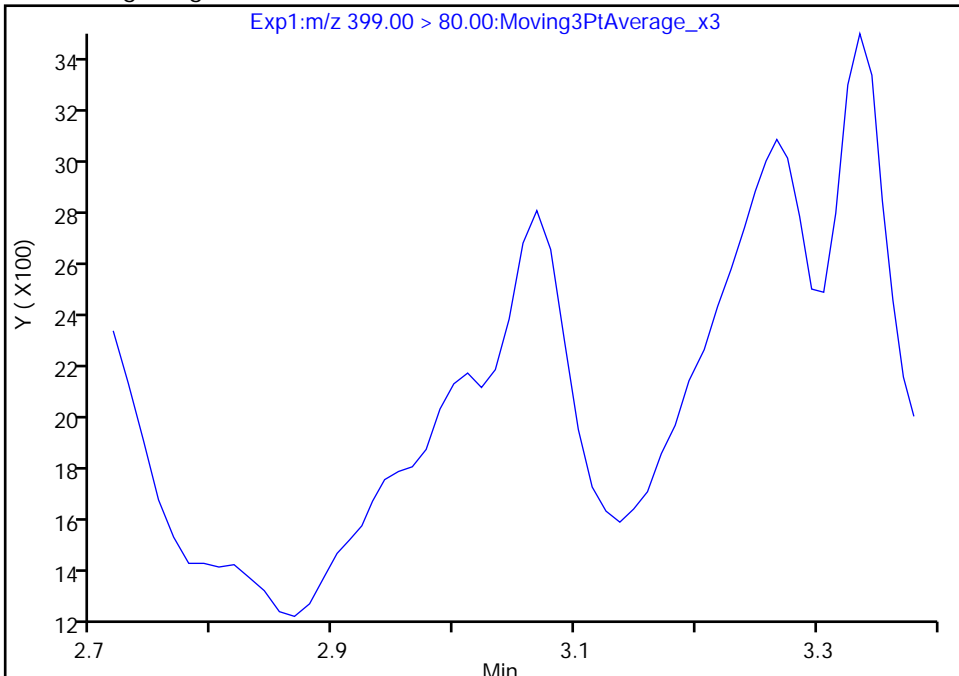
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

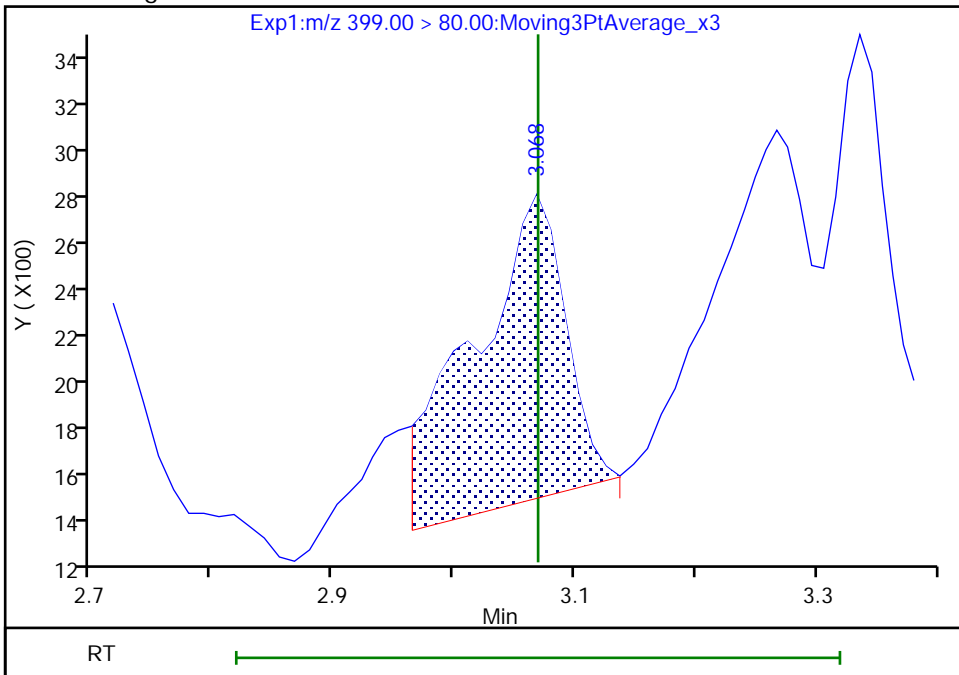
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 6897
Amount: 0.009506
Amount Units: ng/ml



Reviewer: SJ4N, 30-Jan-2023 15:57:40
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

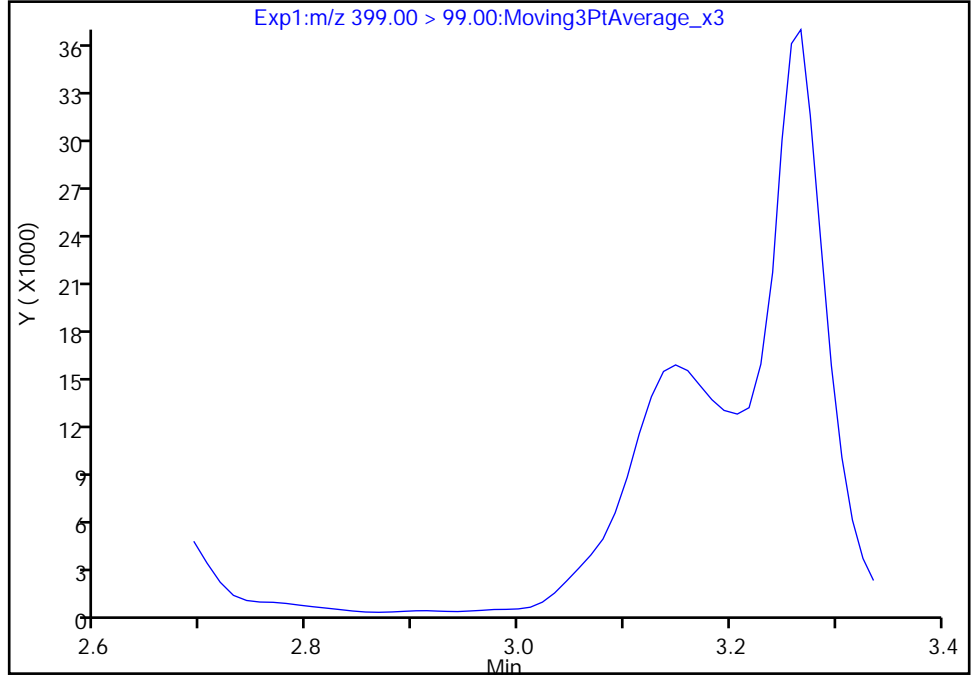
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

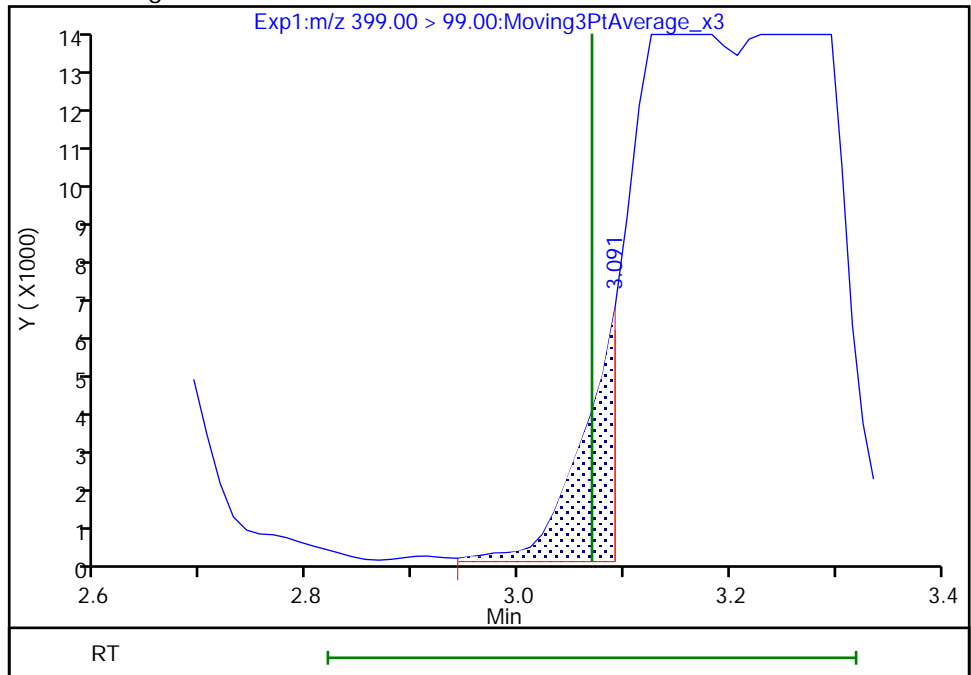
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 13055
Amount: 0.009506
Amount Units: ng/ml



Reviewer: SJ4N, 30-Jan-2023 15:58:00

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

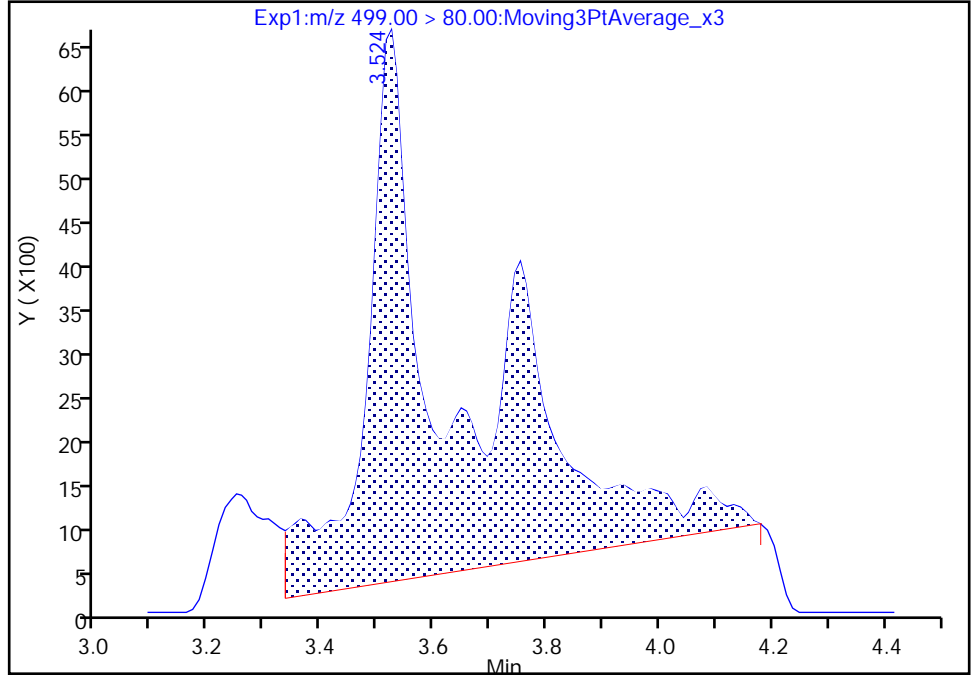
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Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

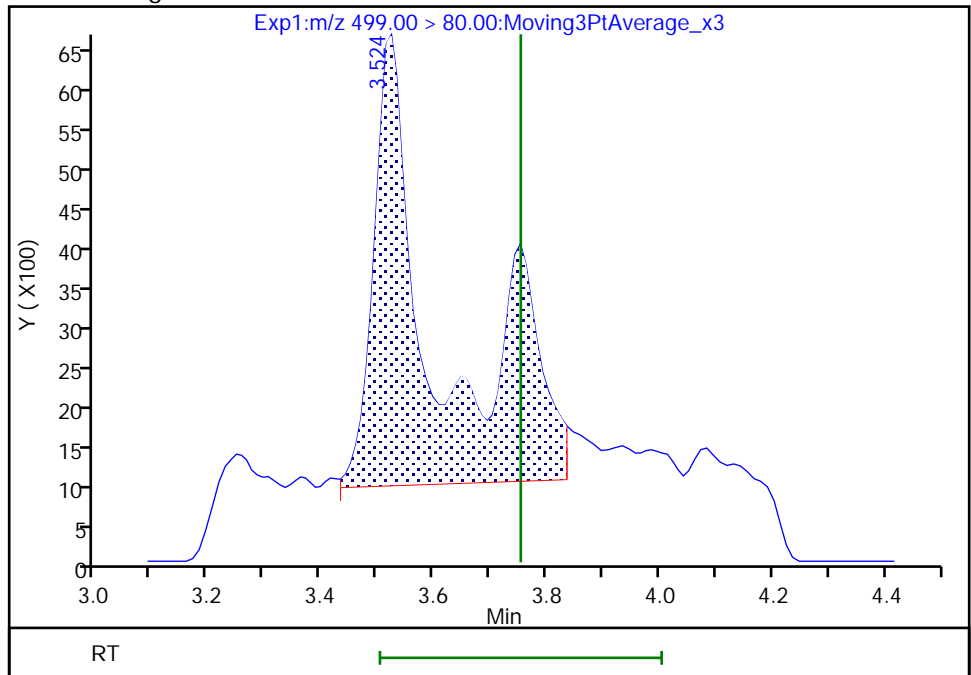
RT: 3.52
Area: 72491
Amount: 0.144181
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 44974
Amount: 0.089451
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 16:00:24
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

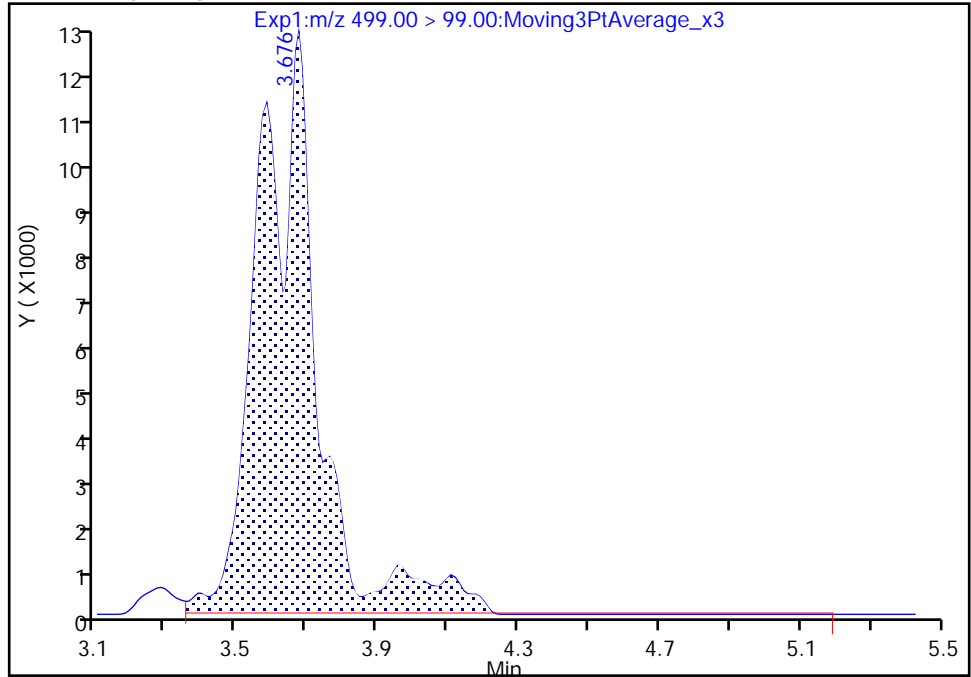
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A12.d
Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul 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

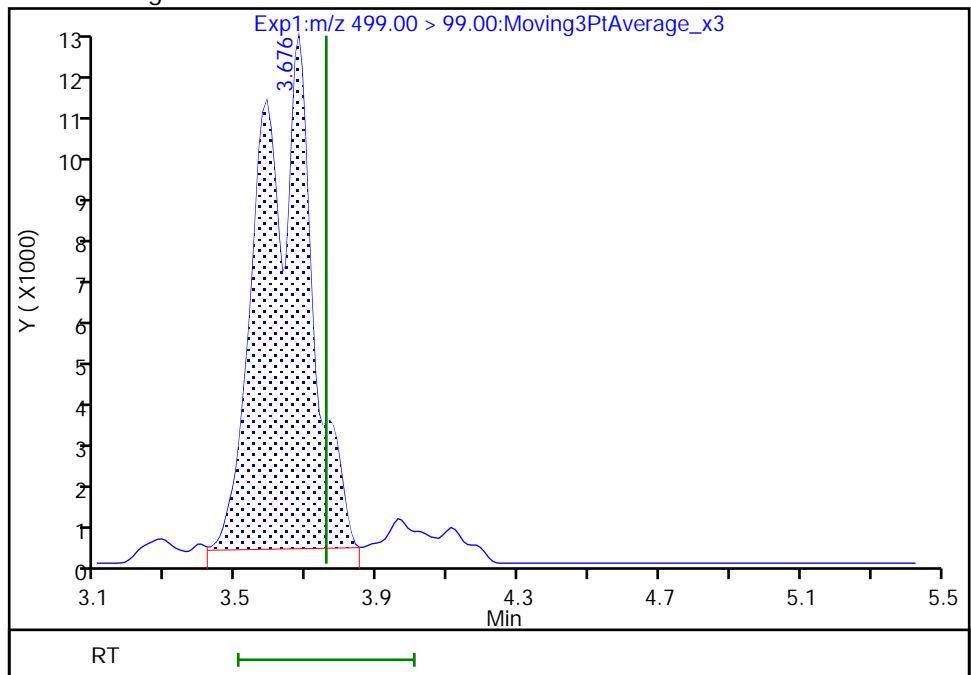
Processing Integration Results

RT: 3.68
Area: 148423
Amount: 0.144181
Amount Units: ng/ml



Manual Integration Results

RT: 3.68
Area: 124656
Amount: 0.089451
Amount Units: ng/ml



Reviewer: SJ4N, 30-Jan-2023 16:00:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

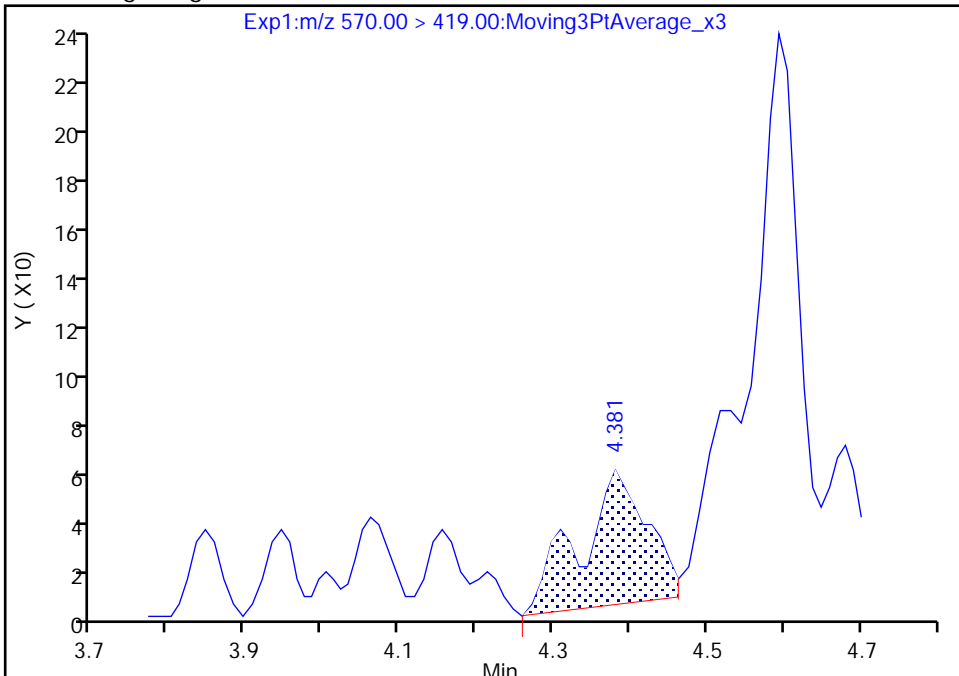
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Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

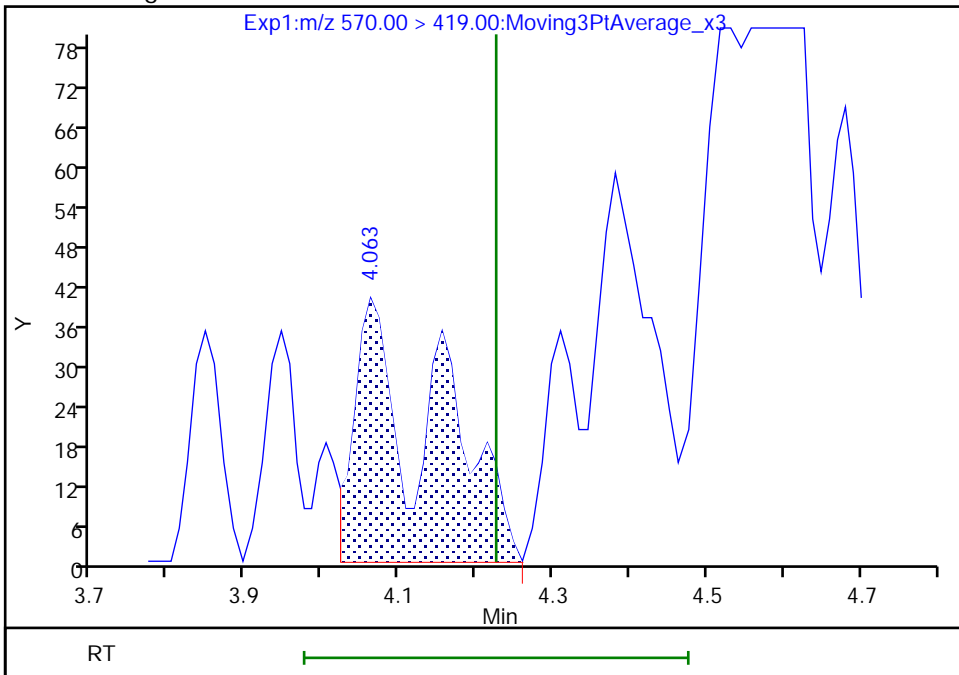
RT: 4.38
Area: 329
Amount: 0.001498
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 278
Amount: 0.001265
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 16:01:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

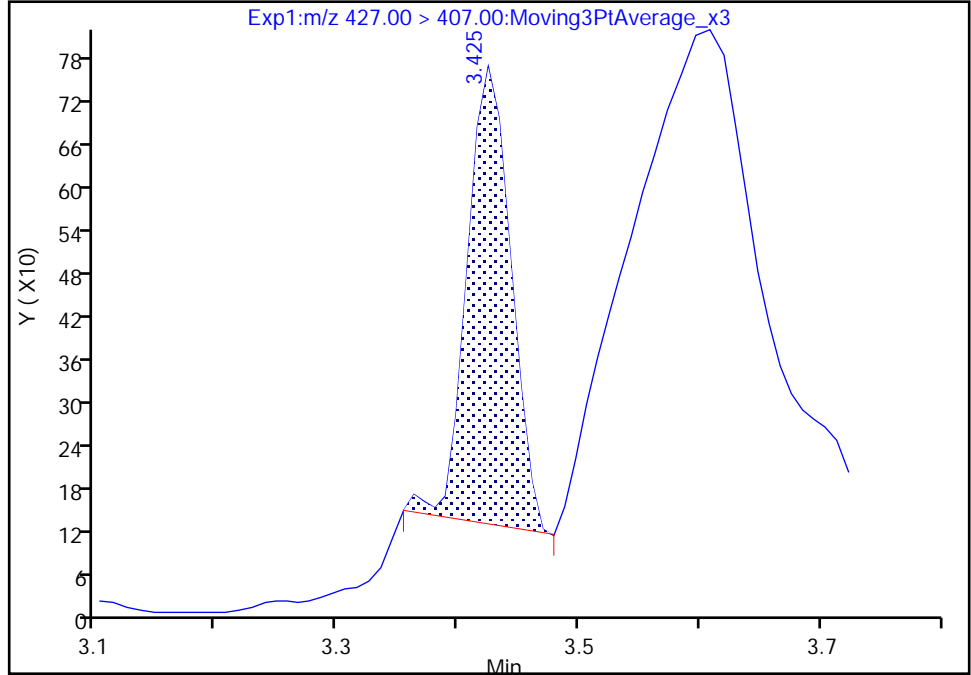
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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: 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

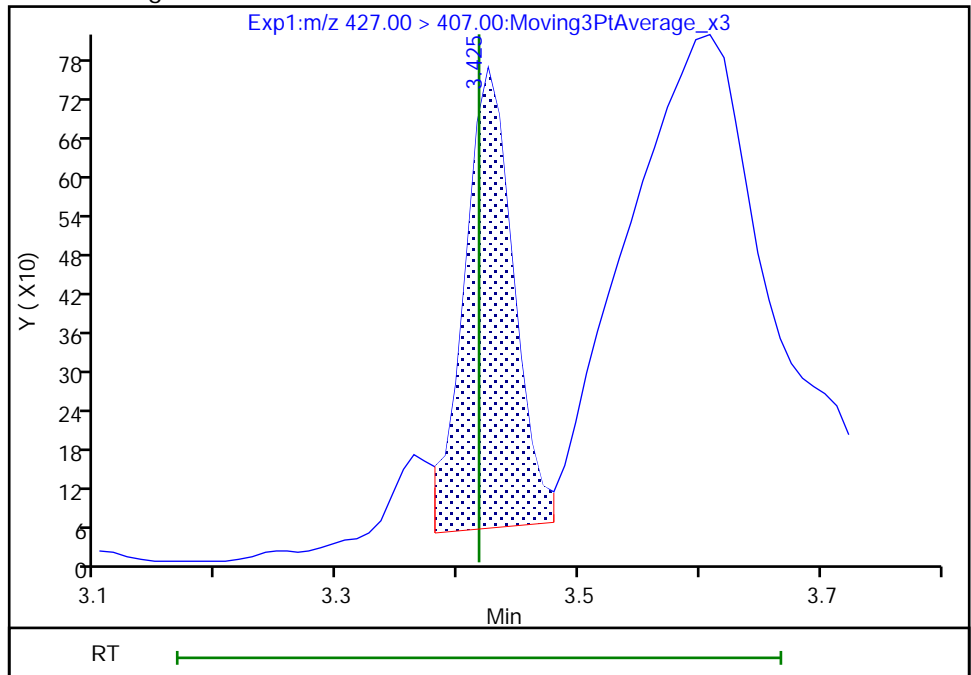
RT: 3.42
Area: 1631
Amount: 0.003857
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 2009
Amount: 0.004751
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:58:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

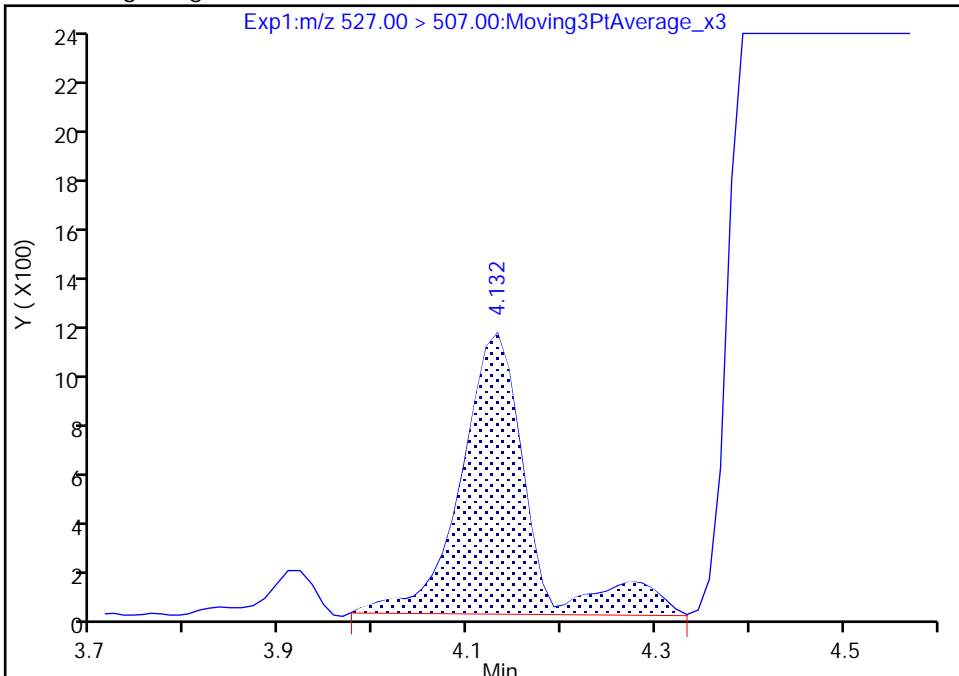
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A12.d
Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul 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

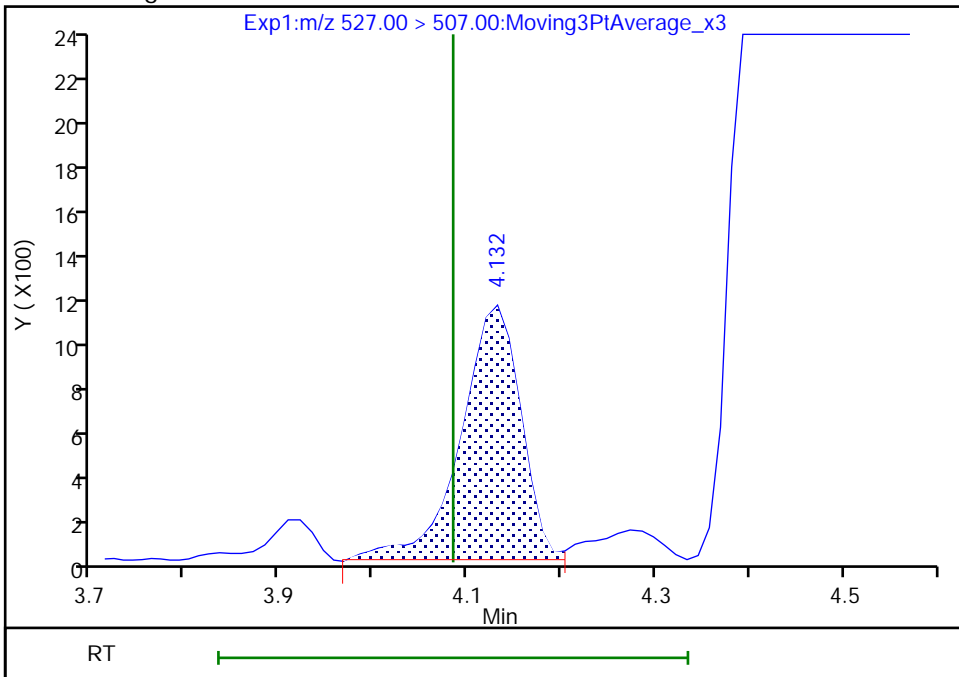
RT: 4.13
Area: 5456
Amount: 0.012573
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 4925
Amount: 0.011350
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 16:01:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 137 of 950

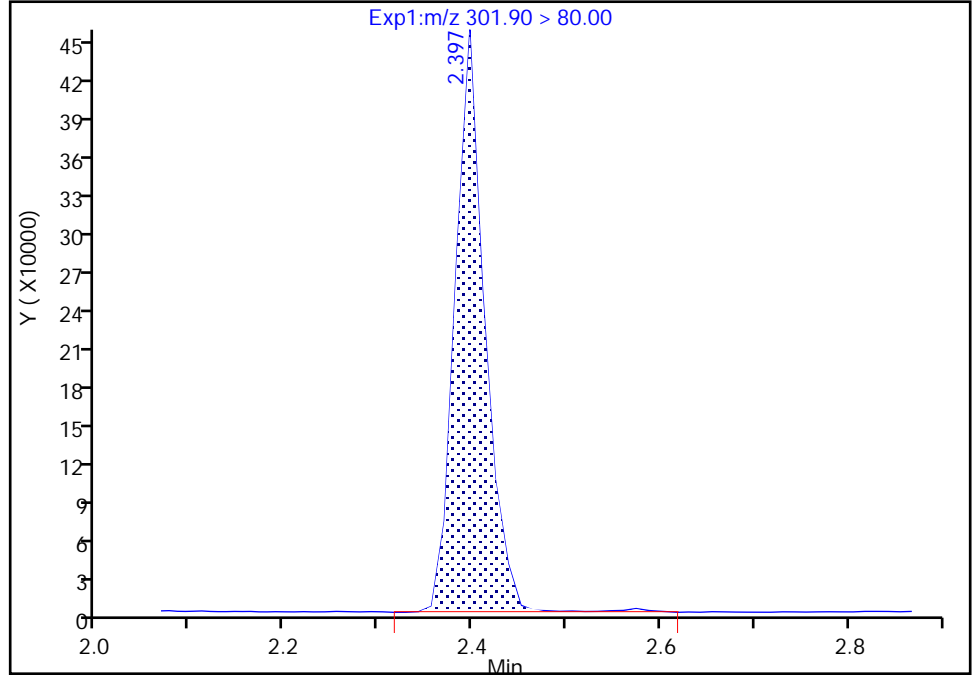
Eurofins Burlington

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Injection Date: 26-Jan-2023 21:16:16 Instrument ID: LC812
Lims ID: 460-273105-A-3-A Lab Sample ID: 200-273105-3
Client ID: BCS-09-50_(15-15.5)P
Operator ID: LC812user 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

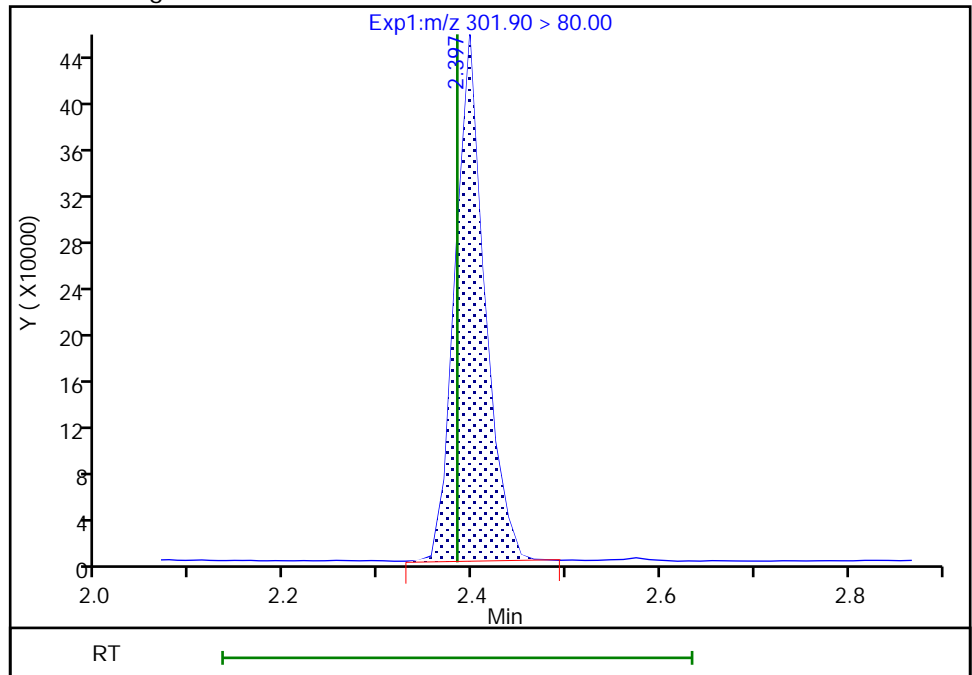
RT: 2.40
Area: 1010550
Amount: 0.638222
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 997286
Amount: 0.629845
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 30-Jan-2023 15:55:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-51_(15-15.5)P Lab Sample ID: 460-273105-4
 Matrix: Solid Lab File ID: PA230126A13.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:45
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.22(g) Date Analyzed: 01/26/2023 21:24
 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.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.64	U	0.64	0.42
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.25	U	0.25	0.070
307-24-4	Perfluorohexanoic acid (PFHxA)	0.25	U	0.25	0.058
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.050
335-67-1	Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.074
375-95-1	Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.043
335-76-2	Perfluorodecanoic acid (PFDA)	0.25	U	0.25	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.032
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.032
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.033
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.042
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.052
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.25	U	0.25	0.029
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.25	U	0.25	0.14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.25	U	0.25	0.024
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.25	U	0.25	0.043
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.54	U	2.54	0.14
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.54	U	2.54	0.11
27619-97-2	6:2 FTS	2.54	U	2.54	0.072
39108-34-4	8:2 FTS	2.54	U	2.54	0.047

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-51_(15-15.5)P Lab Sample ID: 460-273105-4
 Matrix: Solid Lab File ID: PA230126A13.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:45
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.22(g) Date Analyzed: 01/26/2023 21:24
 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.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	62		50-150
STL01892	13C4 PFHpA	78		50-150
STL00990	13C4 PFOA	79		50-150
STL00991	13C4 PFOS	66		50-150
STL00995	13C5 PFNA	79		50-150
STL00992	13C4 PFBA	88		50-150
STL00993	13C2 PFHxA	86		50-150
STL00996	13C2 PFDA	81		50-150
STL00997	13C2 PFUnA	80		50-150
STL00998	13C2 PFDoA	87		50-150
STL01056	13C8 FOSA	61		50-150
STL01893	13C5 PFPeA	75		50-150
STL02116	13C2 PFTeDA	73		50-150
STL02118	d3-NMeFOSAA	80		50-150
STL02117	d5-NEtFOSAA	100		50-150
STL02279	M2-6:2 FTS	75		50-150
STL02280	M2-8:2 FTS	88		50-150
STL02337	13C3 PFBS	74		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
 Lims ID: 460-273105-A-4-A
 Client ID: BCS-09-51_(15-15.5)P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 21:24:25 ALS Bottle#: 10 Worklist Smp#: 13
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-4-A
 Misc. Info.: 200-0054135-013 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 17:18:27

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	217.00 > 172.00	2.077	2.094	-0.017	0.605	1741791	1.10	87.6	15566	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.017	1.000	51681	-0.004247		4.8		M
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.694	1207319	0.9390	75.1	4884	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.384	2.370	0.014	1.000	21152	0.0191		0.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	1208358	0.8560	73.6	113607	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.411	2.384	0.027	1.006	2149	0.001930	Target=2.10	1.2		
298.90 > 99.00	2.411	2.384	0.027	1.006	1488		1.44(1.05-3.15)	0.1		M
D 7 13C2 PFHxA	315.00 > 270.00	2.719	2.694	0.025	0.791	1434005	1.07	85.9	9005	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.719	2.706	0.013	1.000	16552	0.0137	Target=13.16	1.9		M
313.00 > 119.00	2.719	2.706	0.013	1.000	881		18.79(6.58-19.74)	0.9		M
D 11 18O2 PFHxS	403.00 > 84.00	3.081	3.069	0.012	0.897	755322	0.7354	62.2	7082	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.070	3.069	0.001	0.996	3776	0.005386	Target=3.18	2.0		RM
399.00 > 99.00	3.081	3.069	0.012	1.000	4836		0.78(1.59-4.77)	1.0		M
D 9 13C4 PFHpA	367.00 > 322.00	3.081	3.069	0.012	0.897	1309759	0.9792	78.3	7364	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.081	3.069	0.012	1.000	6324	0.005668	Target=4.10	1.0		
363.00 > 169.00	3.081	3.069	0.012	1.000	1758		3.60(2.05-6.16)	4.8		

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	3.426	3.417	0.009	0.997	145027	0.8958		75.4	153	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.426	3.417	0.009	1.000	1787	0.006390		2.6	M	
D 14 13C4 PFOA										
417.00 > 372.00	3.426	3.426	0.0	0.997	1398624	0.9869		79.0	10909	
* 62 13C2 PFOA										
415.00 > 370.00	3.435	3.426	0.009		1729320	1.25		4810		
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.435	3.426	0.009	1.003	15292	0.0126	Target=2.71	0.8	RM	
413.00 > 169.00	3.444	3.426	0.018	1.005	3468		4.41(1.36-4.07)	5.4	M	
D 18 13C4 PFOS										
503.00 > 80.00	3.744	3.754	-0.010	1.090	494354	0.7916		66.2	562	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.754	3.754	0.0	1.003	7788	0.0155	Target=4.23	4.0	RM	
499.00 > 99.00	3.586	3.754	-0.168	0.958	44752		0.17(2.11-6.34)	25.0	M	
D 19 13C5 PFNA										
468.00 > 423.00	3.764	3.774	-0.010	1.096	1371792	0.99		79.5	3864	
D 23 13C2 PFDA										
515.00 > 470.00	4.064	4.074	-0.010	1.183	1442789	1.02		81.5	7705	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.075	4.085	-0.010	1.186	212614	1.05		87.5	249	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.075	4.085	-0.010	1.000	848	0.002633		3.3	M	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.133	4.144	-0.011	1.000	2155	0.003034		17.5	M	
D 21 13C8 FOSA										
506.00 > 78.00	4.133	4.144	-0.011	1.203	882713	0.7669		61.3	3880	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.216	4.226	-0.010	1.227	278395	1.00		80.0	2087	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.205	4.226	-0.021	0.997	800	0.003984		4.1	M	
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.323	4.322	0.001	1.155	1419	0.004561	Target=2.45	2.5	M	
599.00 > 99.00	4.311	4.322	-0.011	1.152	494		2.87(1.23-3.68)	0.5	M	
D 30 13C2 PFUnA										
565.00 > 520.00	4.335	4.346	-0.011	1.262	1227858	1.00		80.4	6513	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.323	4.346	-0.023	0.997	4612	0.004301	Target=10.33	1.3	M	
563.00 > 169.00	4.347	4.346	0.001	1.003	372		12.40(5.17-15.50)	1.9	M	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.335	4.358	-0.023	0.997	1557	0.006274		7.8	M	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.347	4.358	-0.011	1.265	333863	1.25		99.8	777	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.585	4.584	0.001	1.000	5909	0.005428	Target=8.10	1.0	M	
613.00 > 169.00	4.573	4.584	-0.011	0.997	538		10.98(4.05-12.15)	2.2	M	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDoA										
615.00 > 570.00	4.585	4.584	0.001	1.335	1336679	1.09		87.2	7875	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.790	4.799	-0.009	1.045	3205	0.002947	Target=6.06		0.6	M
663.00 > 169.00	4.790	4.799	-0.009	1.045	595		5.39(3.03-9.09)		6.7	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.987	4.998	-0.011	1.000	261	0.002705	Target=0.83		5.4	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.987	4.998	-0.011	1.452	965901	0.9162		73.3	4925	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d

Injection Date: 26-Jan-2023 21:24:25

Instrument ID: LC812

Lims ID: 460-273105-A-4-A

Lab Sample ID: 200-273105-4

Client ID: BCS-09-51_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 10

Worklist Smp#: 13

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

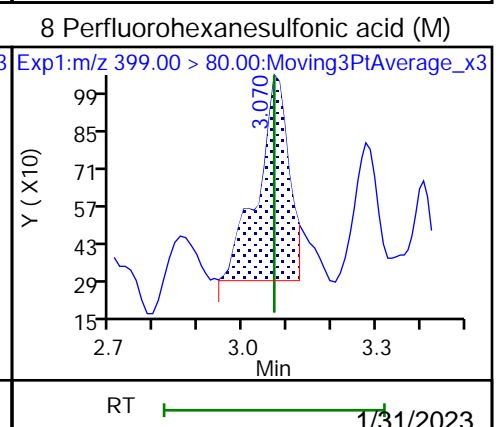
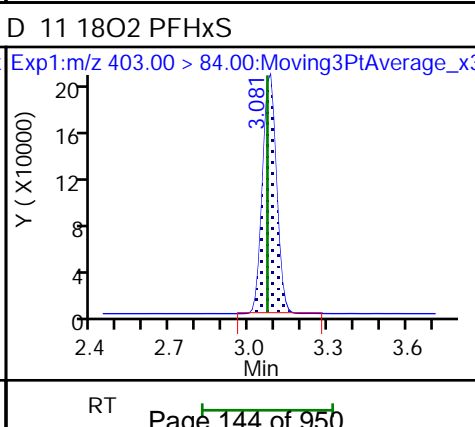
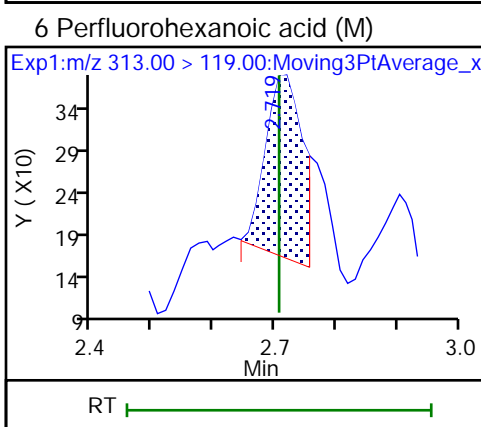
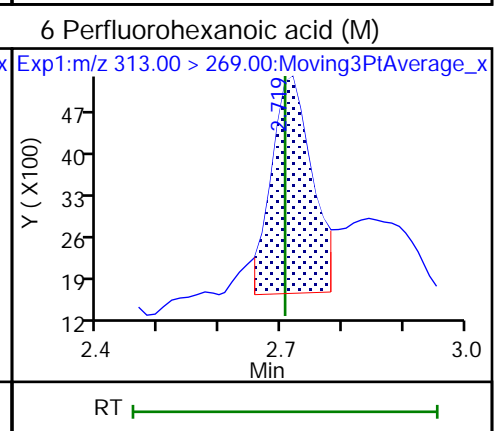
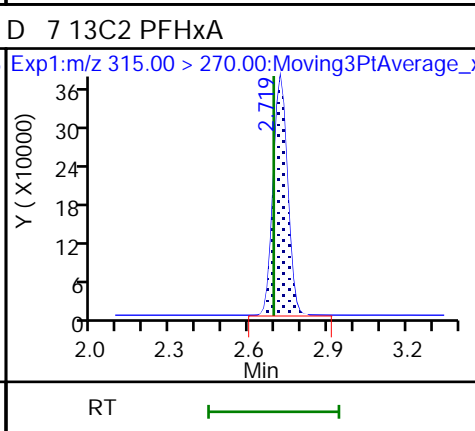
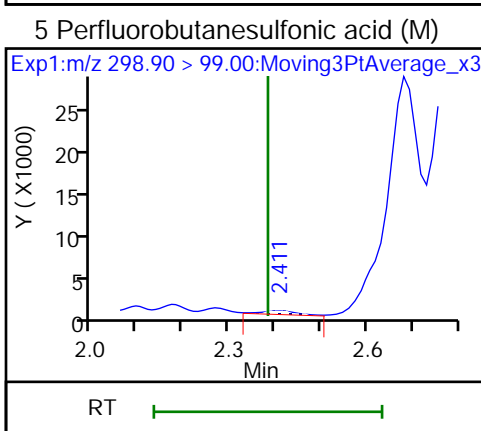
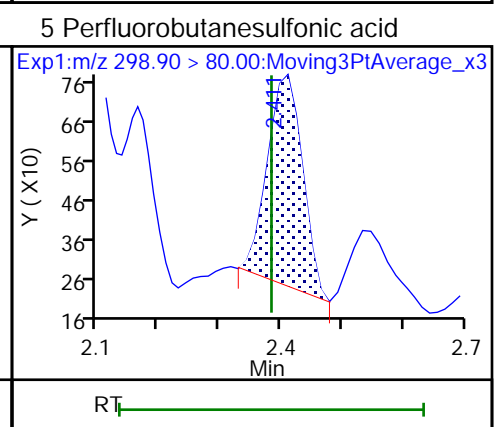
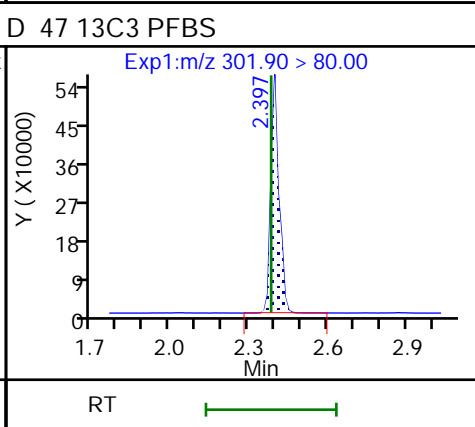
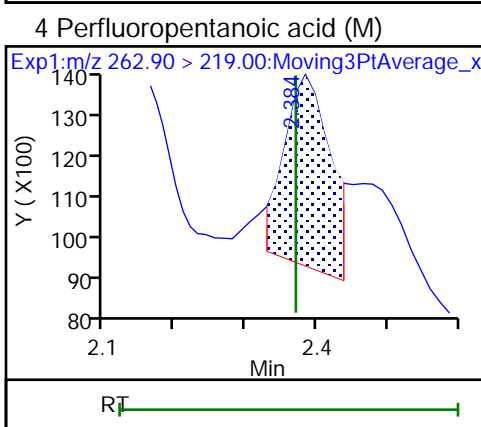
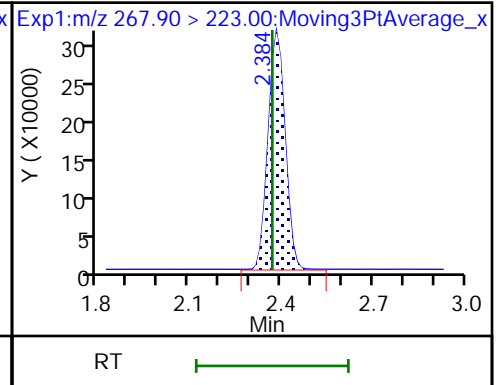
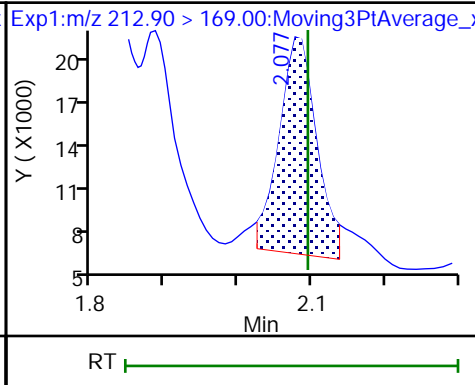
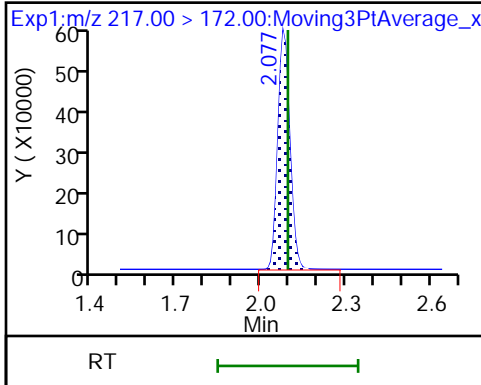
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

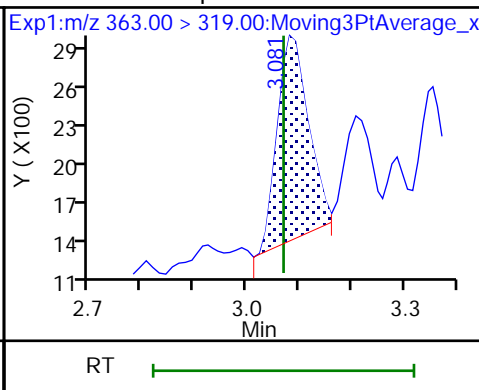
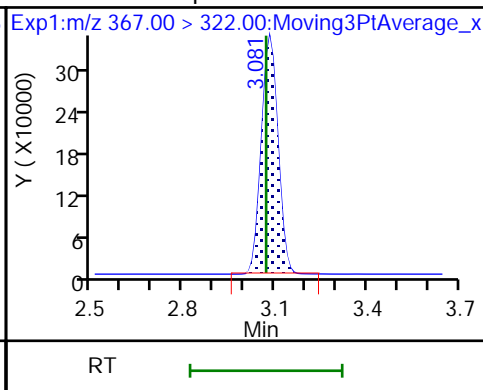
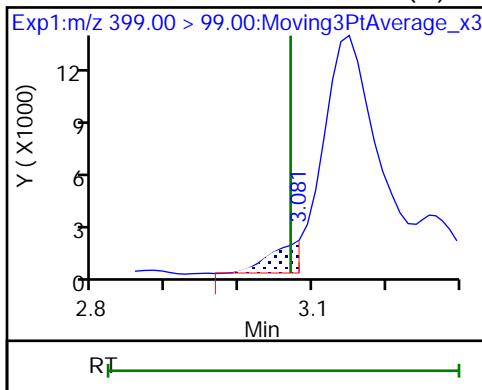
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

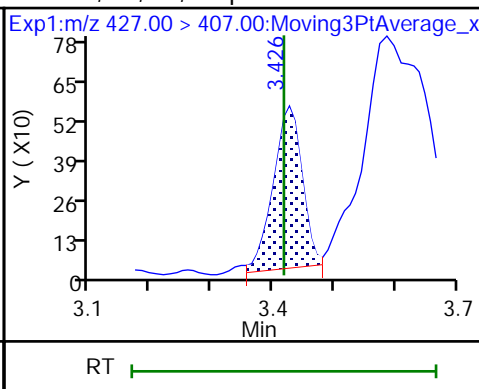
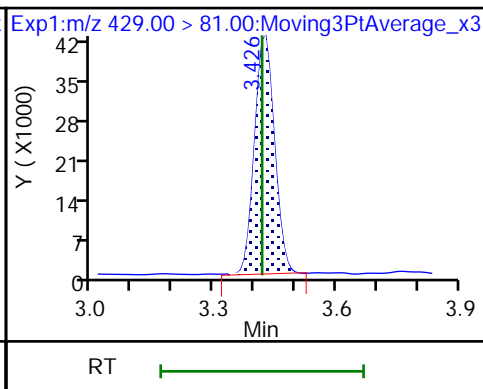
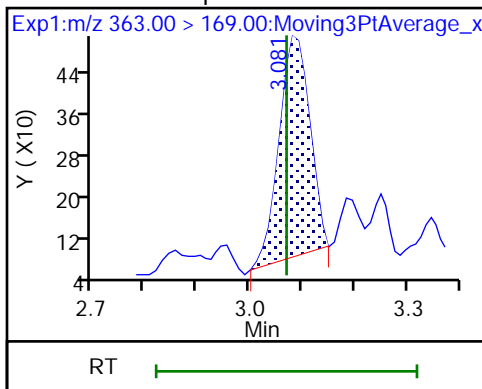
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid

D 12 M2-6:2 FTS

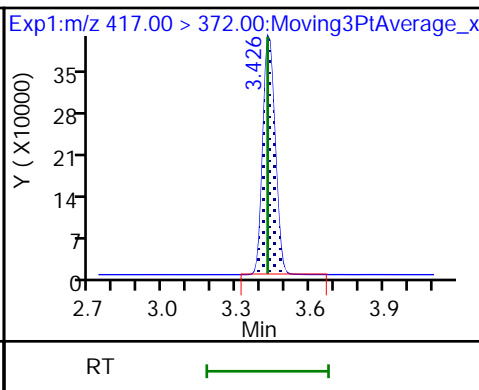
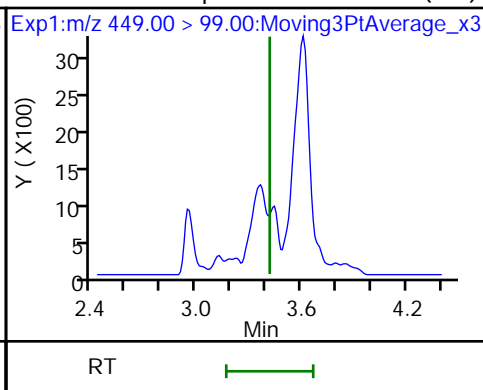
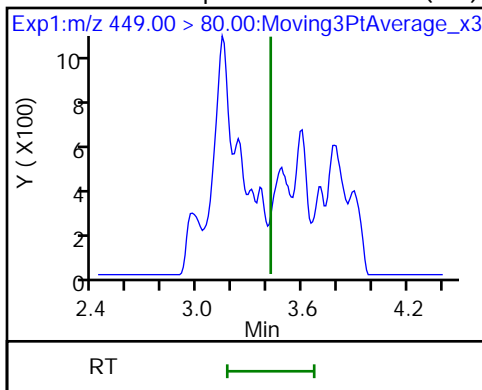
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid (ND)

16 Perfluoroheptanesulfonic acid (ND)

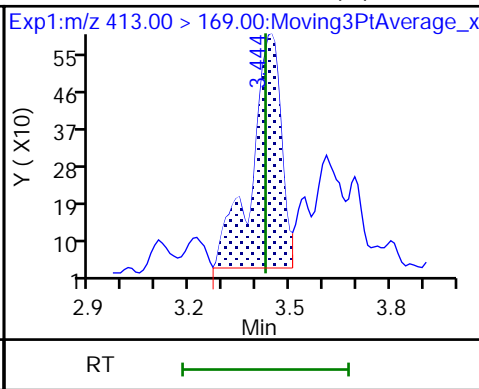
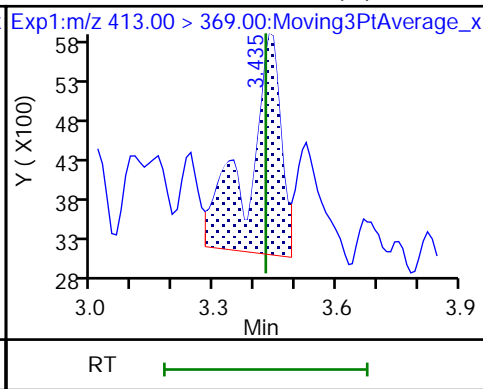
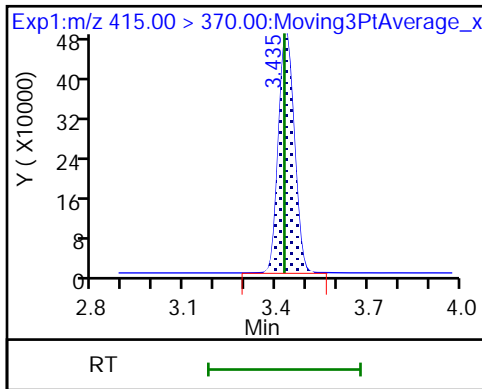
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

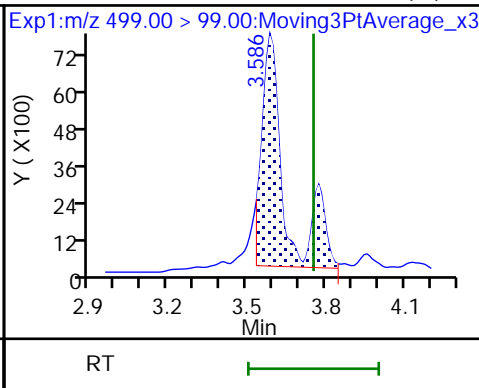
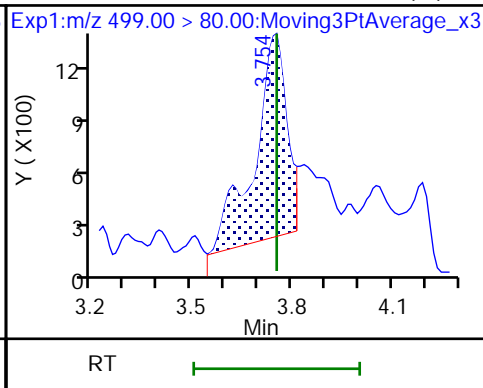
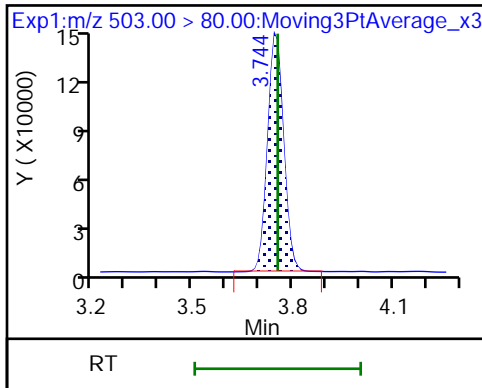
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

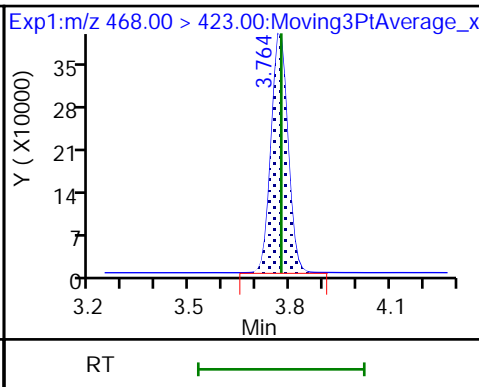
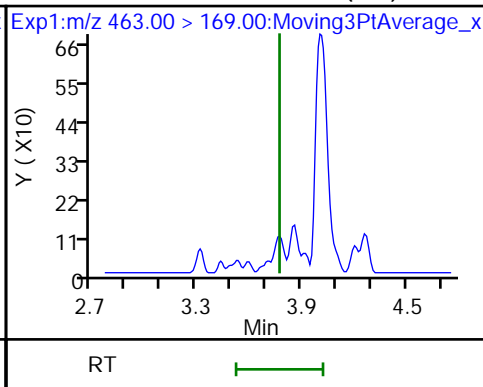
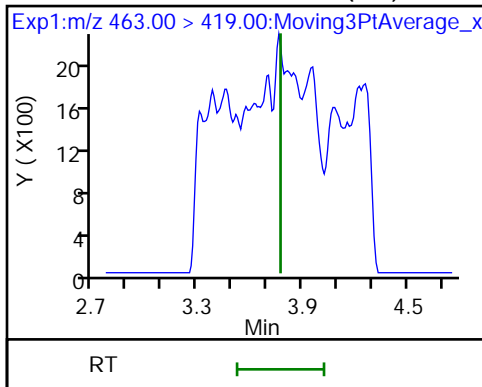
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

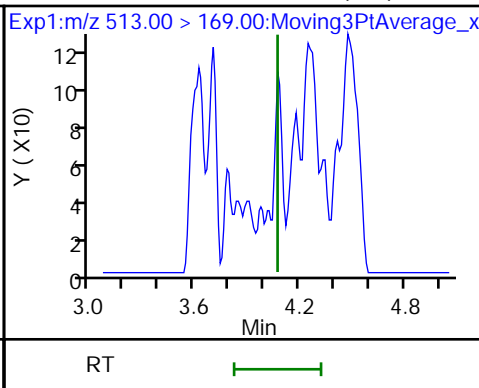
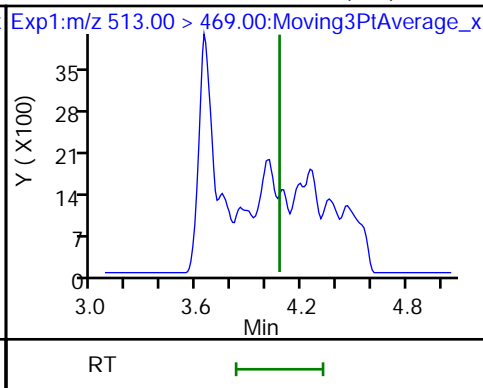
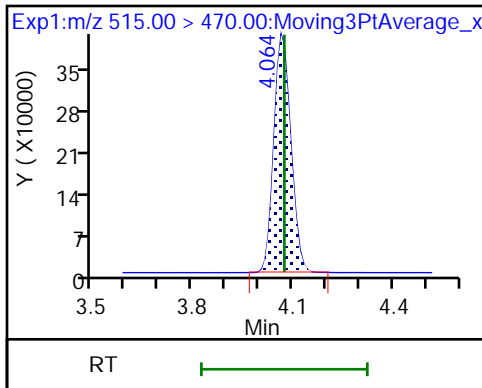
D 19 13C5 PFNA



D 23 13C2 PFDA

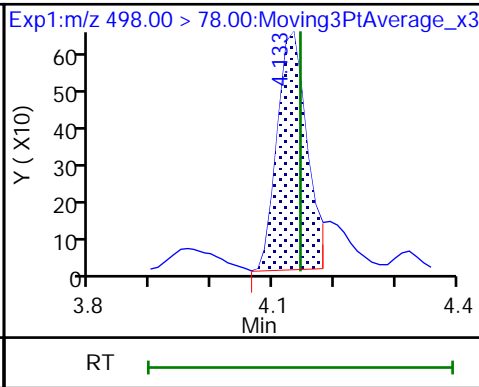
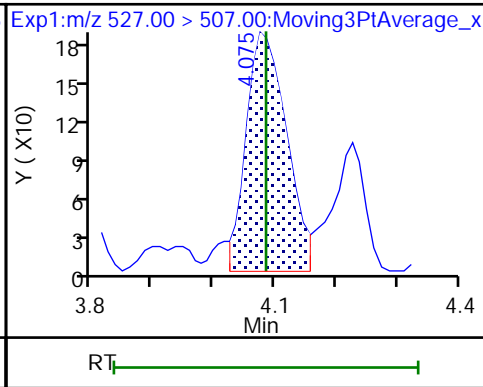
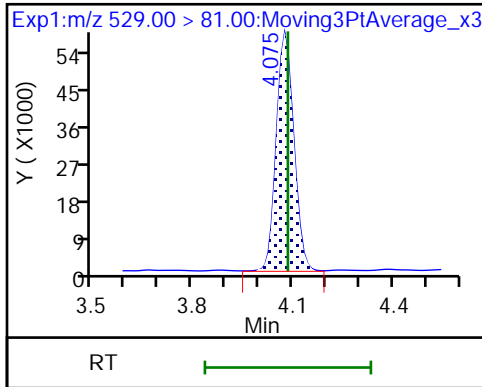
24 Perfluorodecanoic acid (ND)

24 Perfluorodecanoic acid (ND)



D 26 M2-8:2 FTS

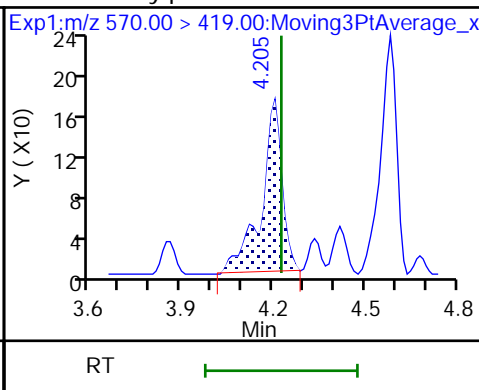
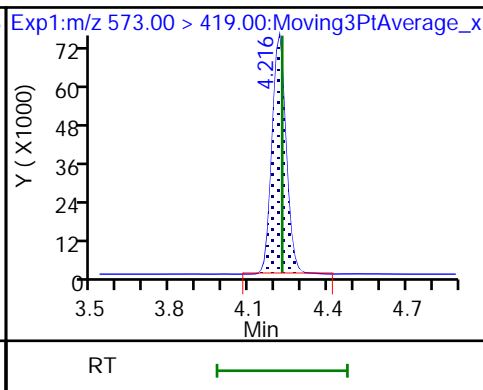
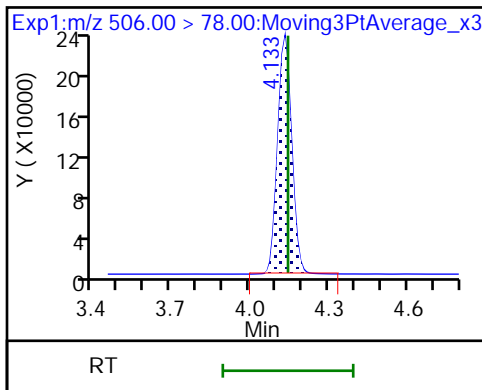
25 1H,1H,2H,2H-perfluorodecanesulfo (M) 22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

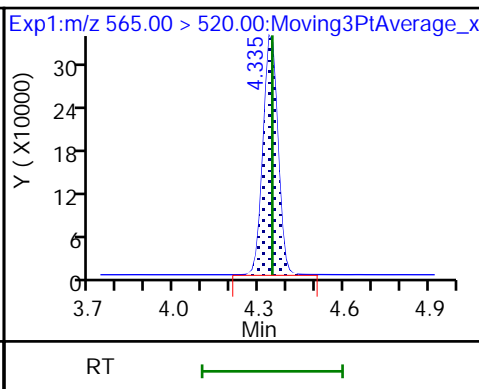
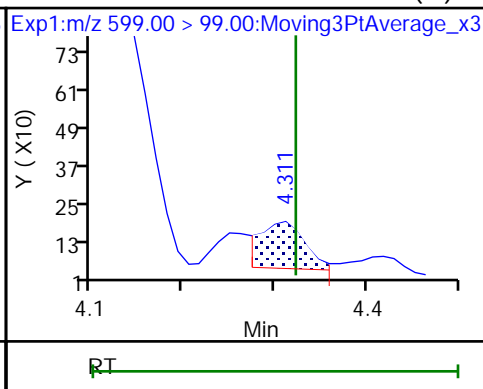
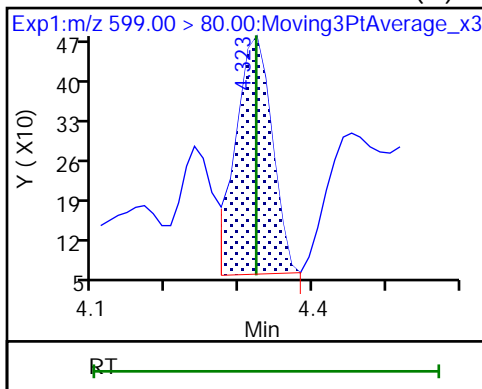
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

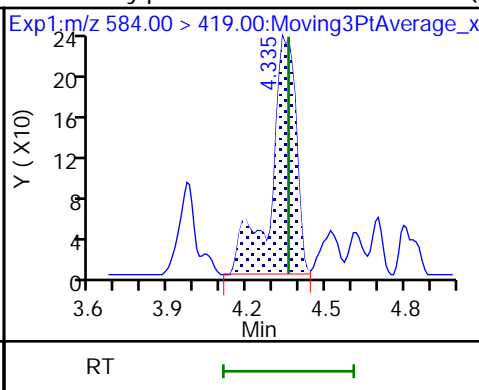
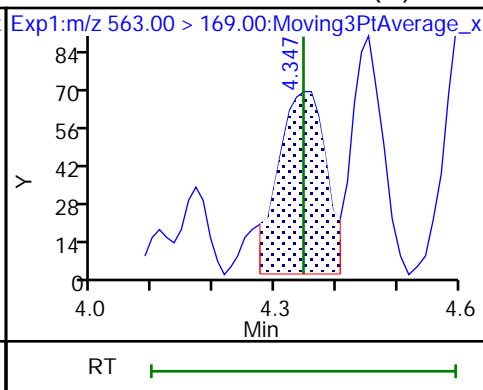
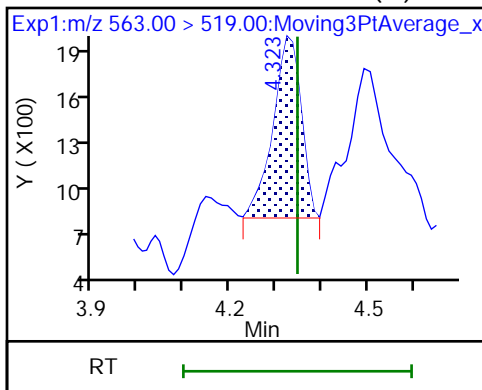
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

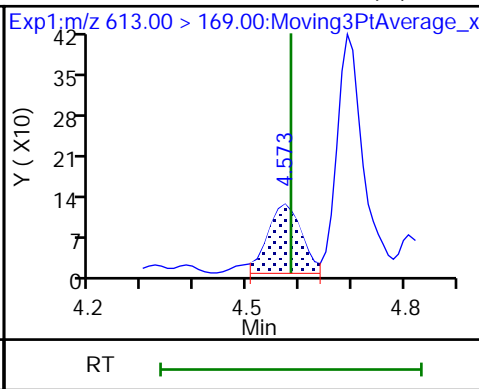
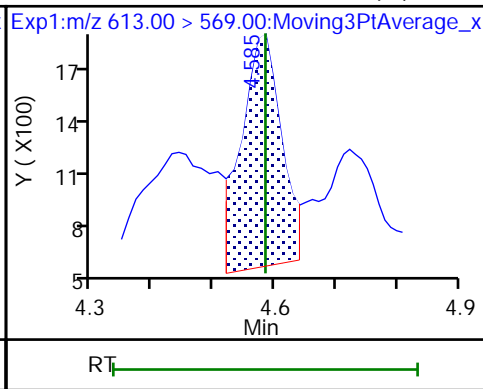
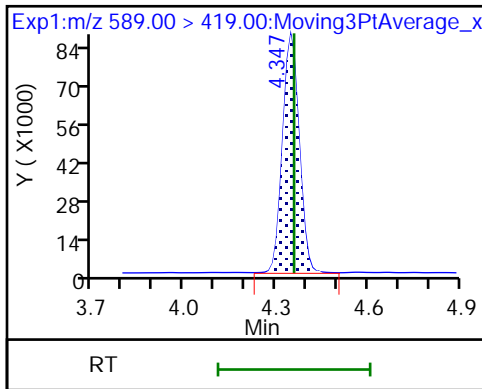
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

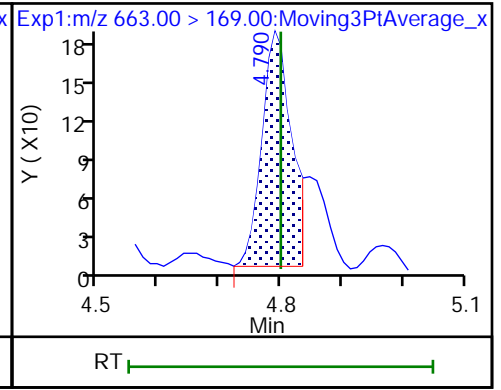
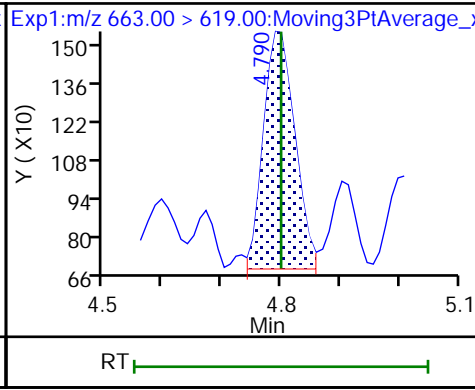
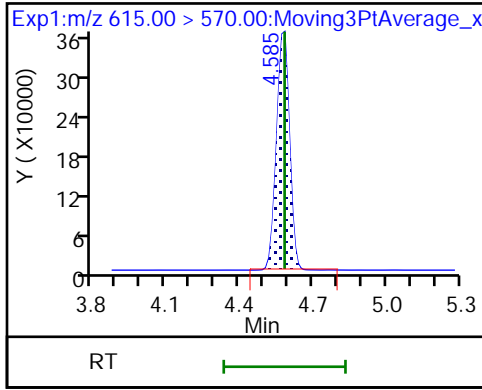
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

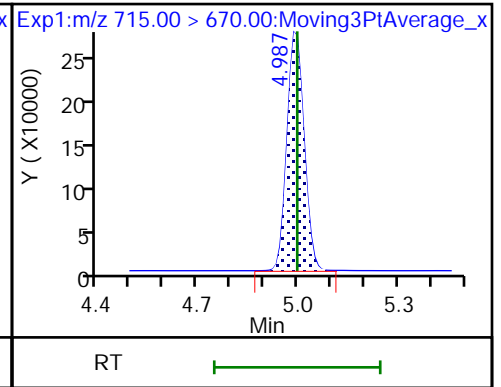
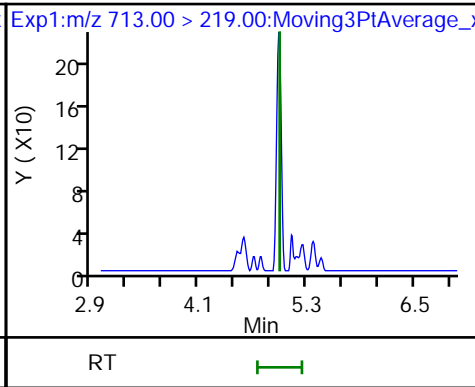
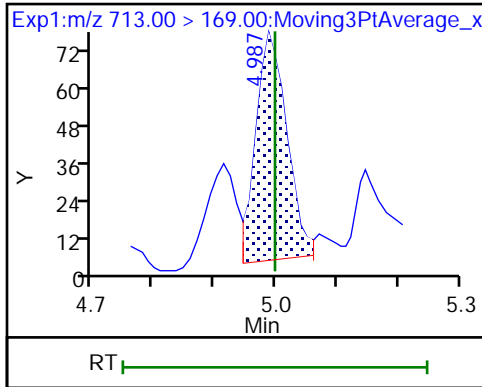
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

D 43 13C2 PFTeDA



Eurofins Burlington

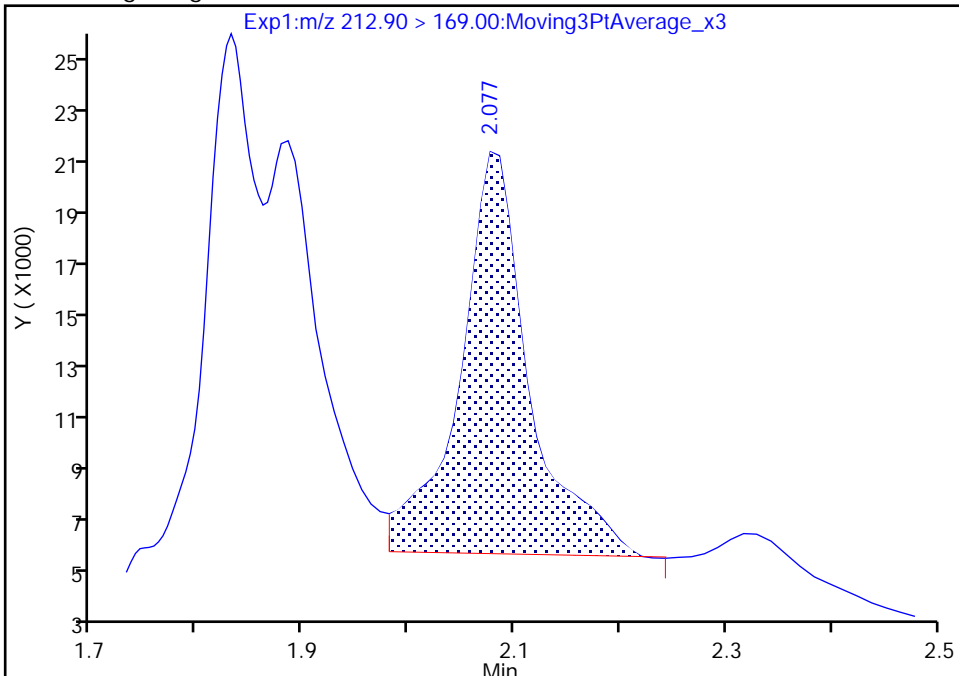
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

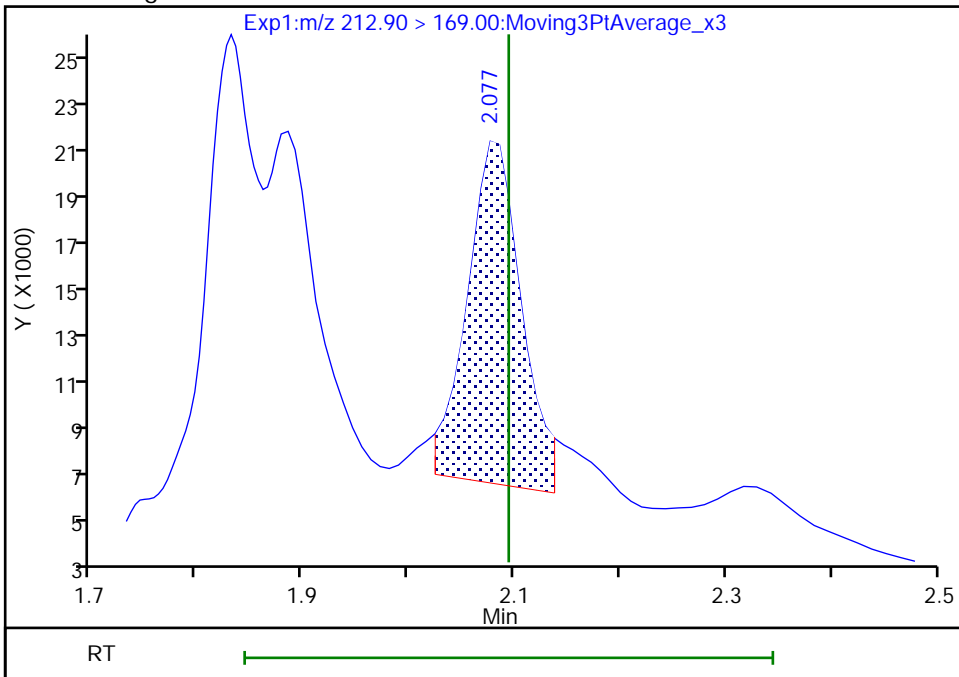
RT: 2.08
Area: 70769
Amount: 0.010212
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 51681
Amount: -0.004247
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:08:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

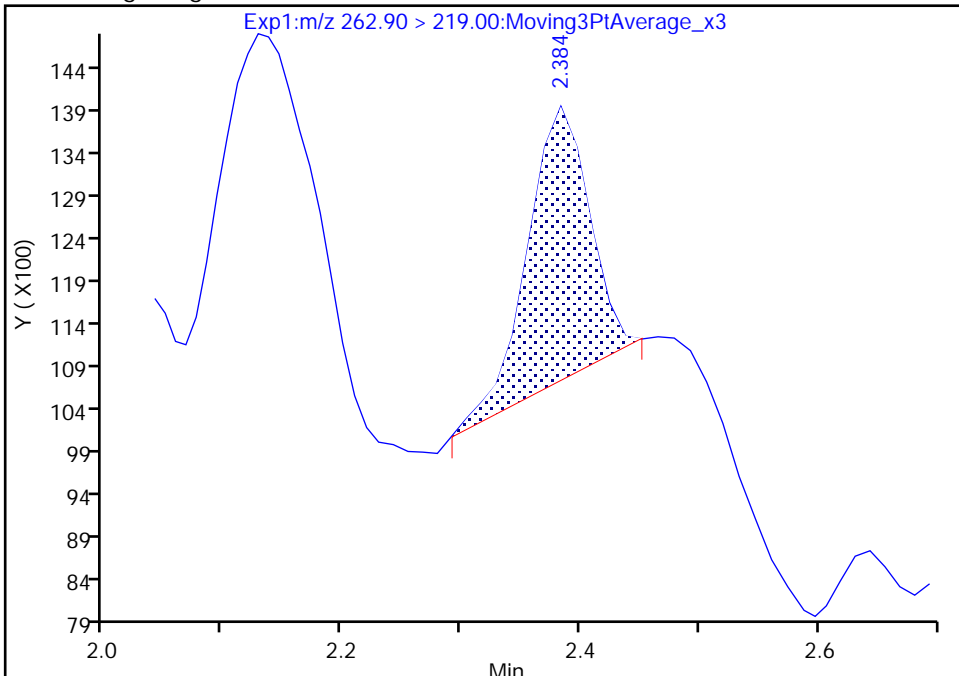
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

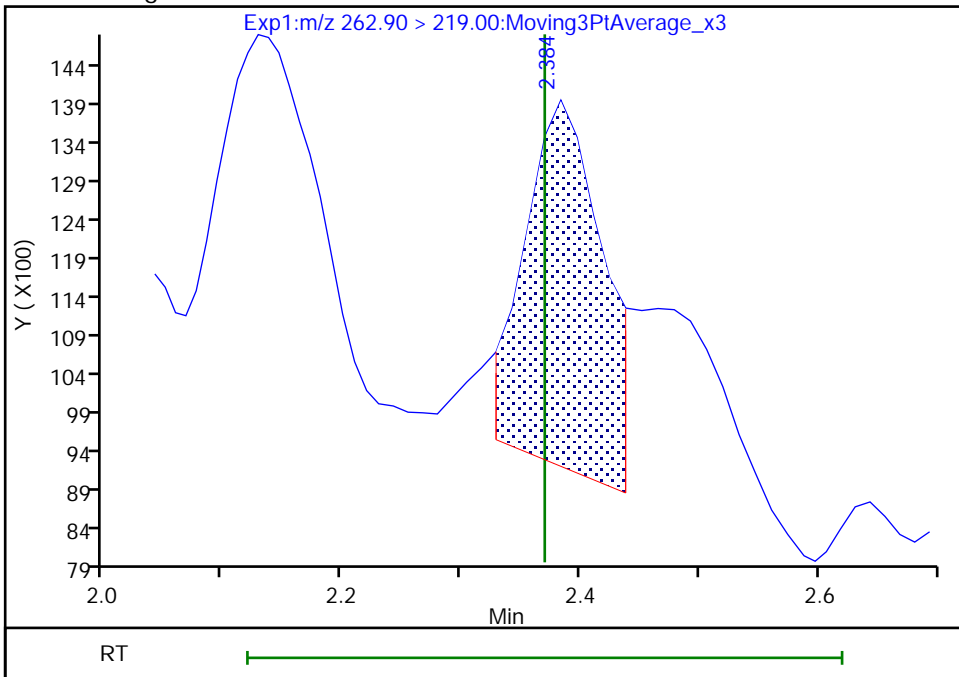
RT: 2.38
Area: 11585
Amount: 0.010473
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 21152
Amount: 0.019122
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:08:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 150 of 950

Eurofins Burlington

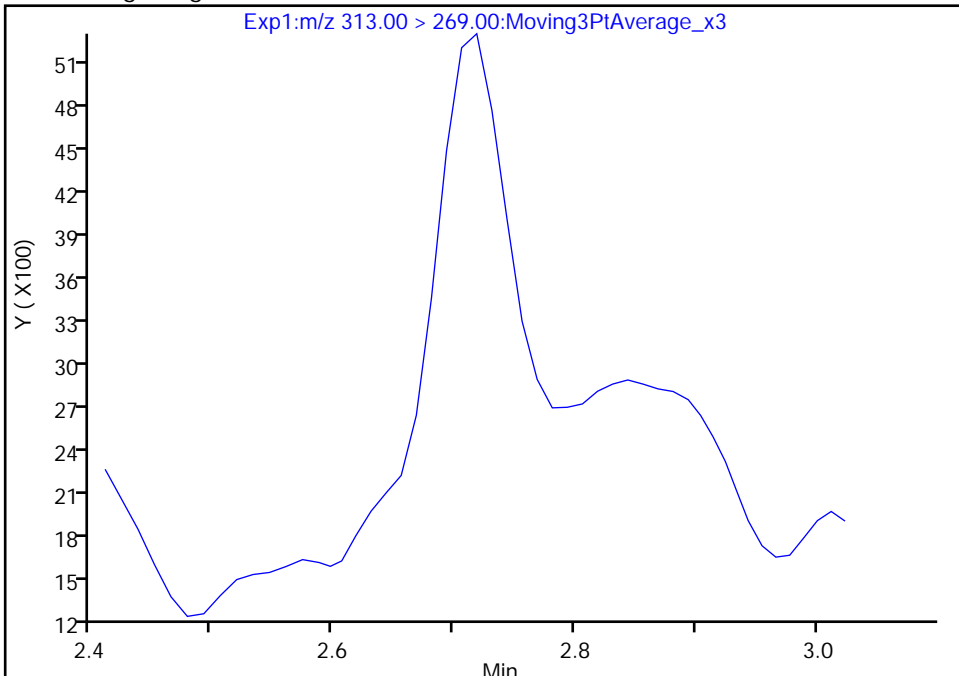
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

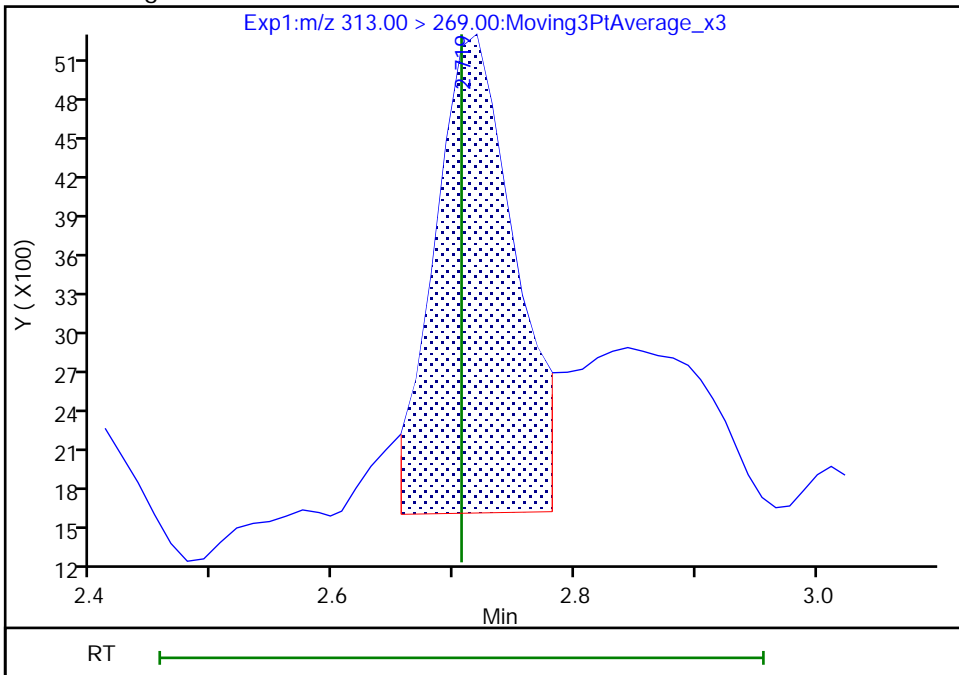
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.72
Area: 16552
Amount: 0.013695
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:09:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

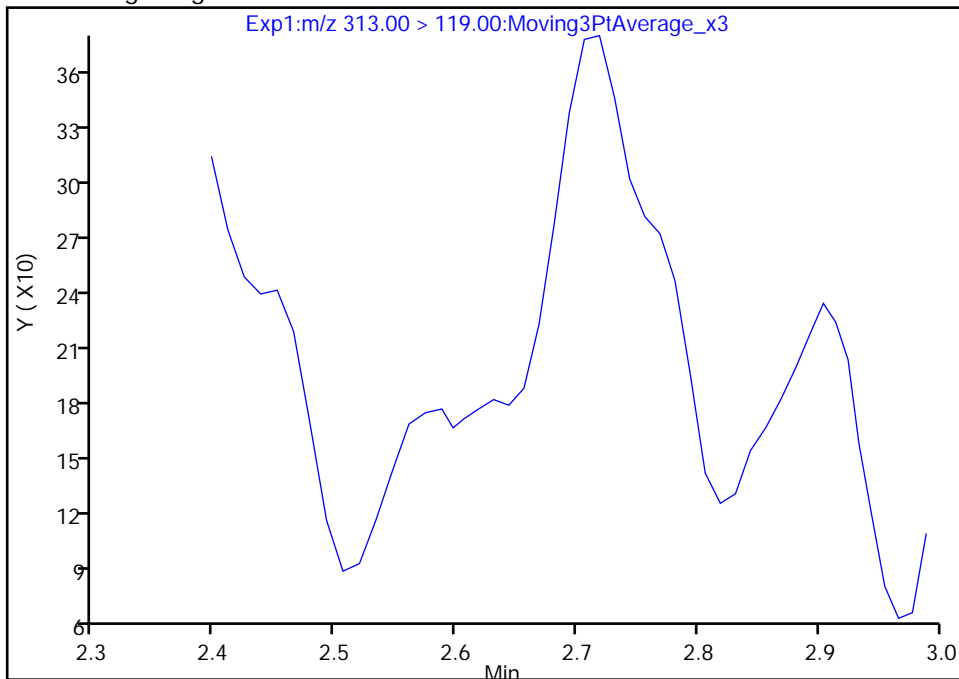
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

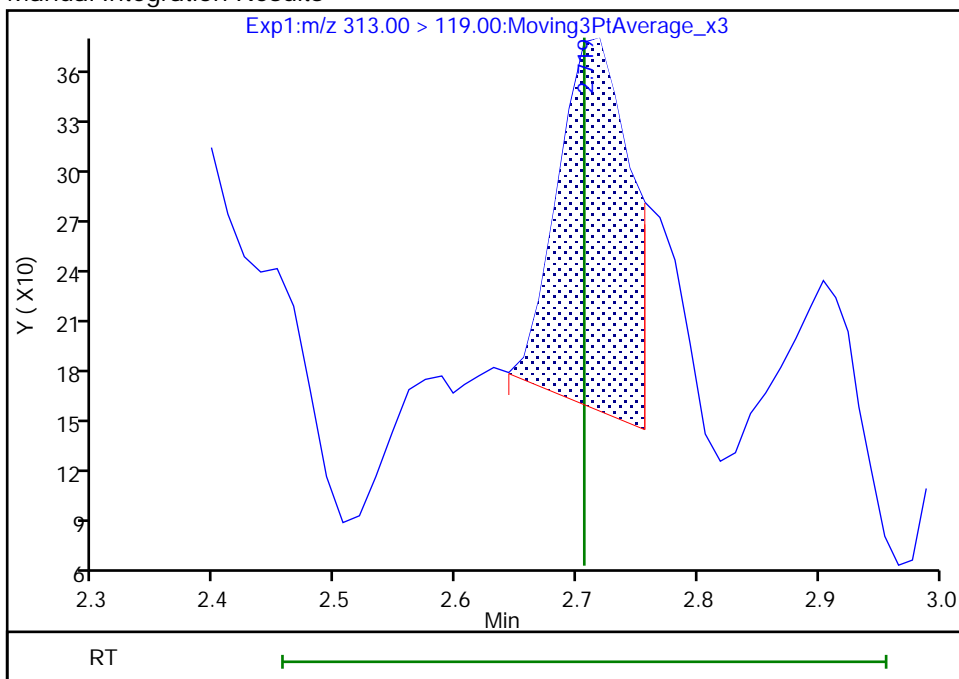
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.72
Area: 881
Amount: 0.013695
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:09:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

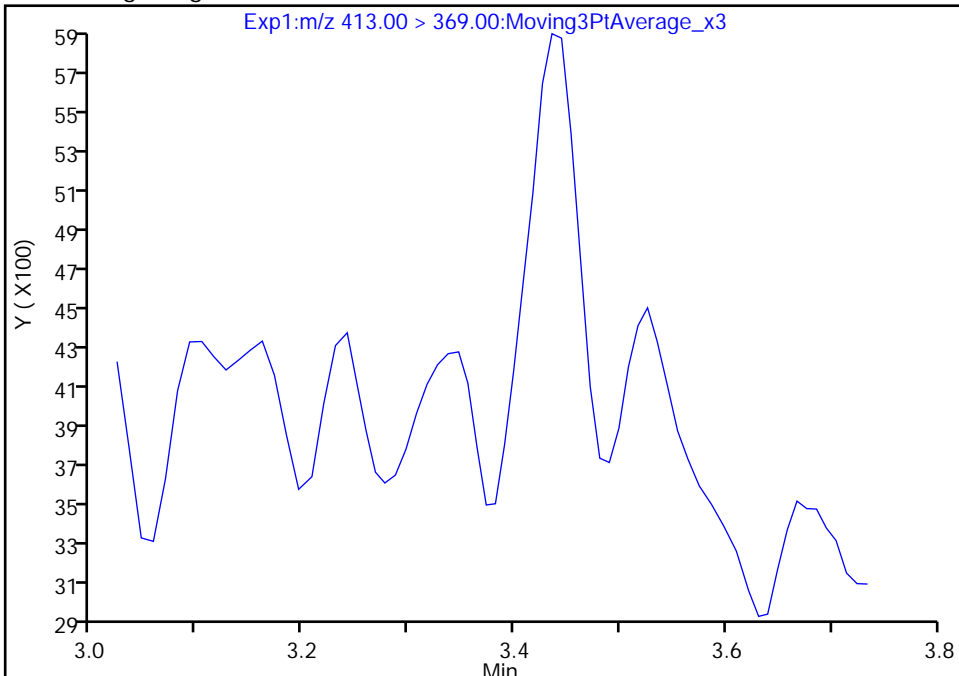
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

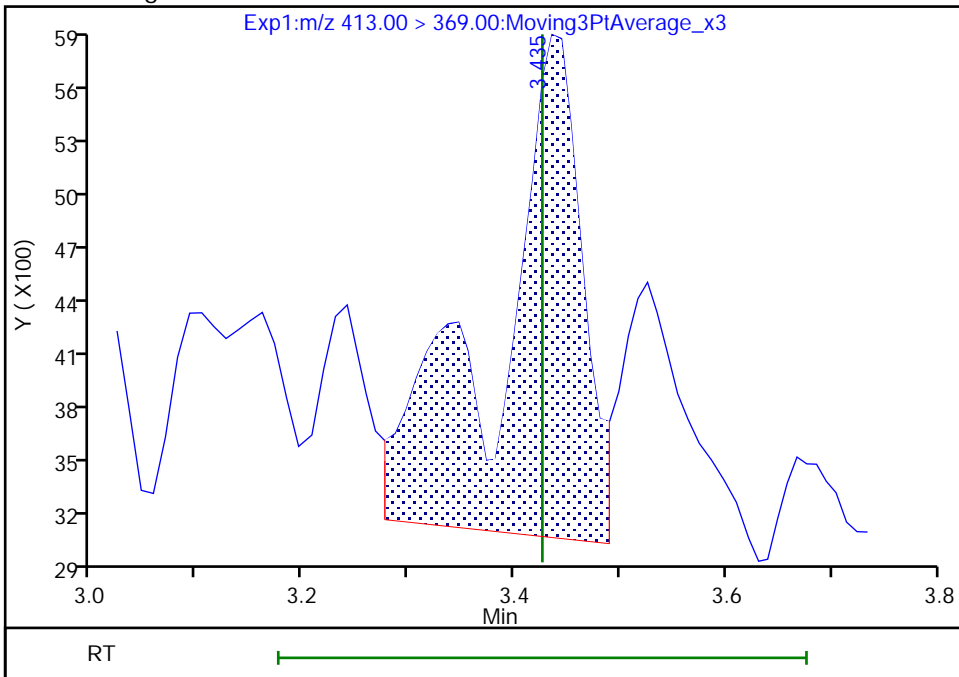
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 15292
Amount: 0.012558
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:12:14
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

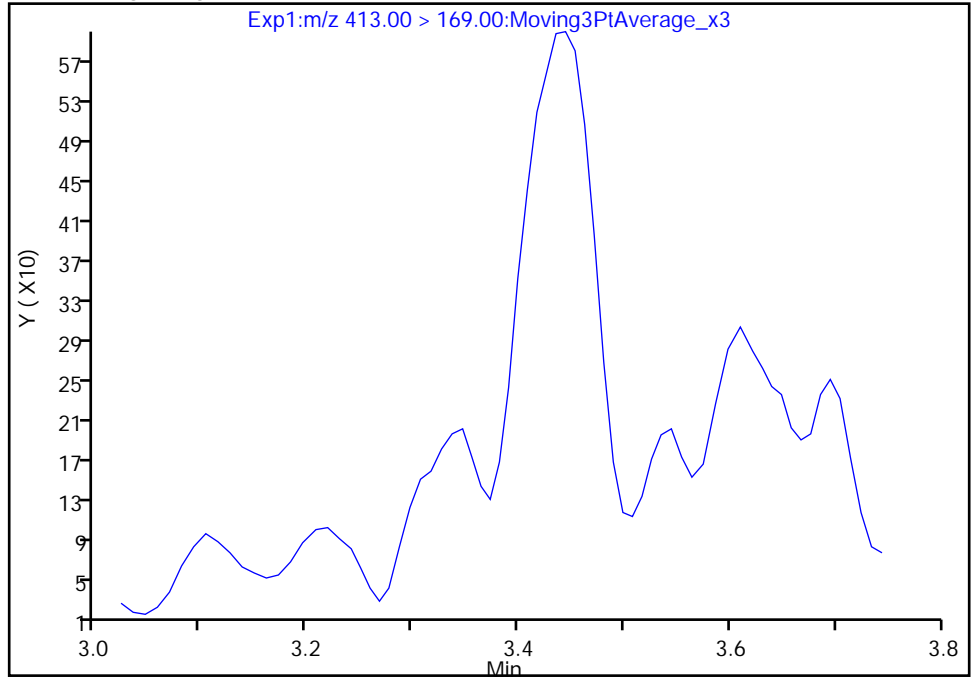
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

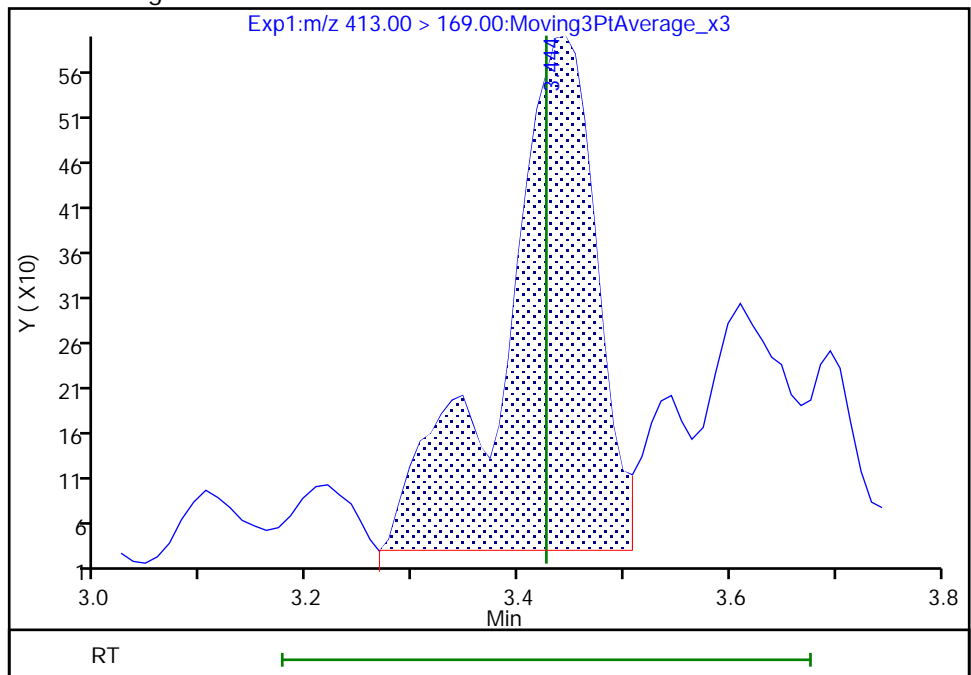
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 3468
Amount: 0.012558
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:12:17

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

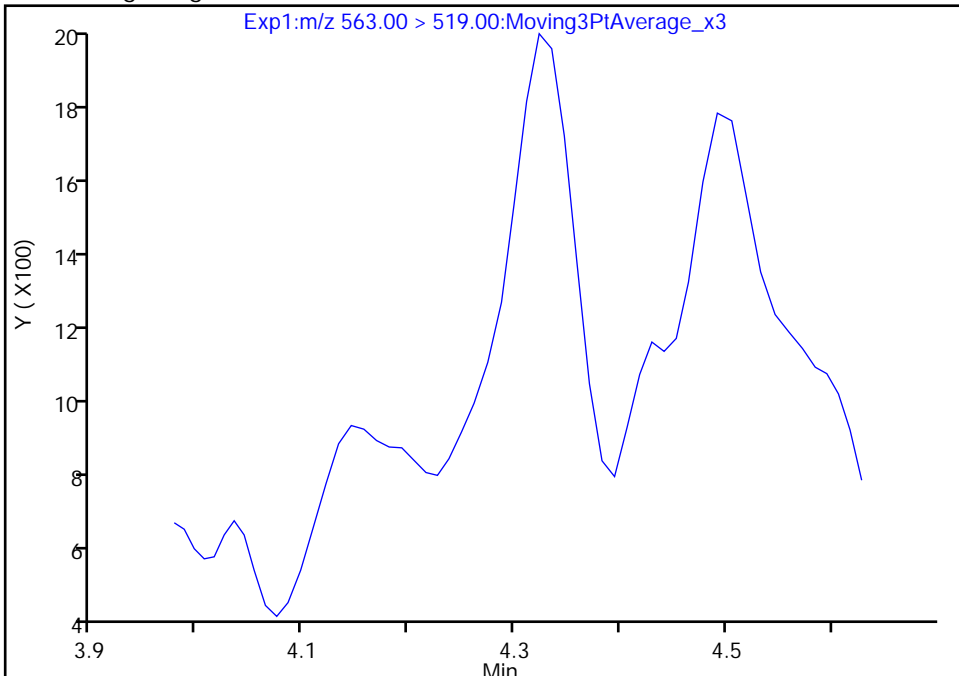
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Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

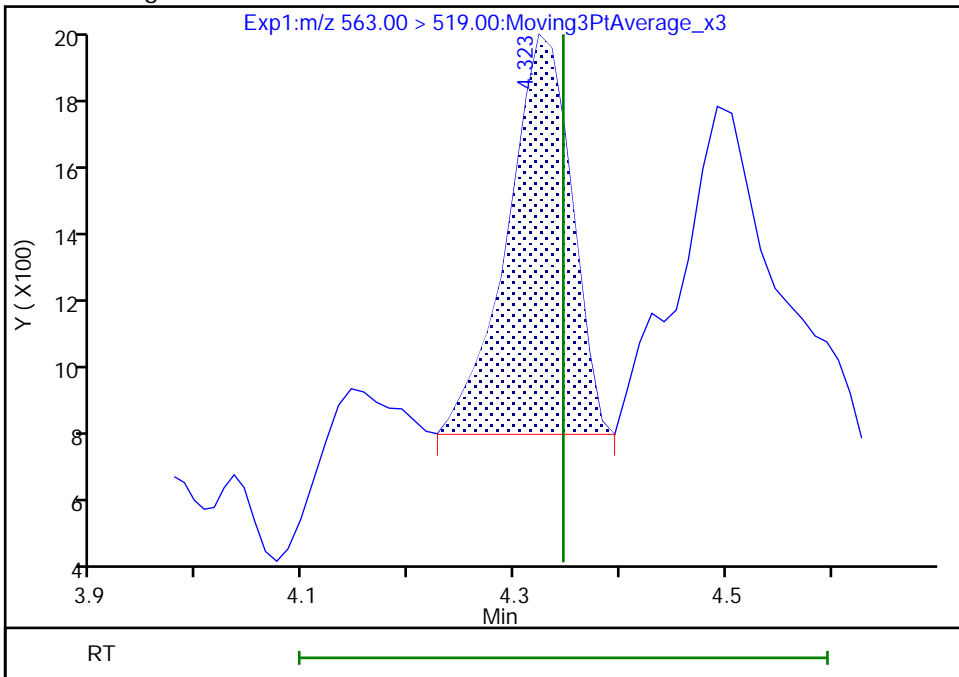
Not Detected
Expected RT: 4.35

Processing Integration Results



RT: 4.32
Area: 4612
Amount: 0.004301
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:15:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

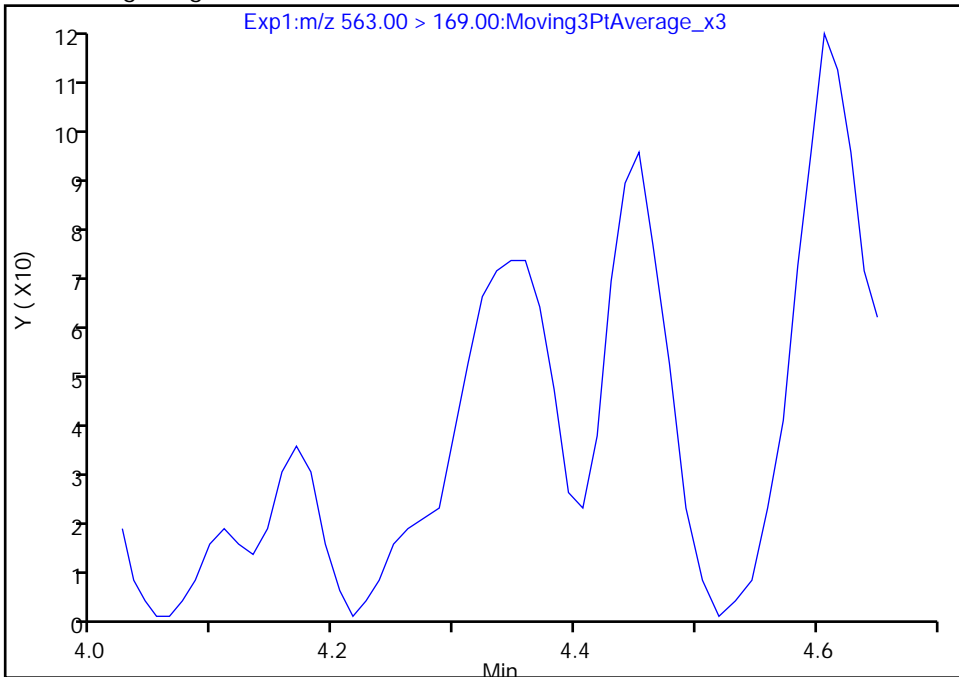
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

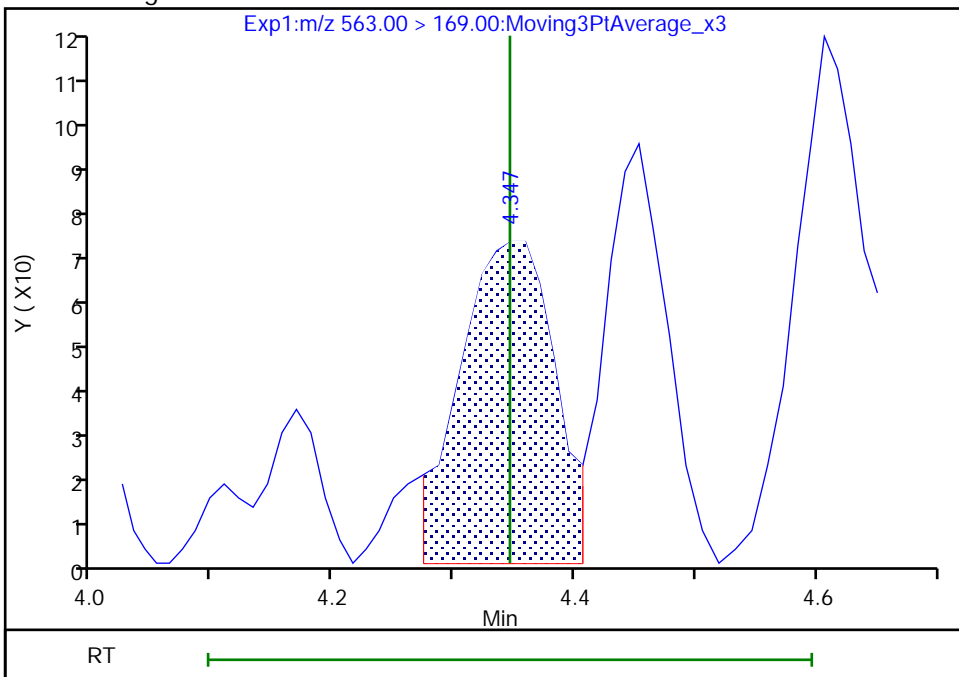
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 372
Amount: 0.004301
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:15:48

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

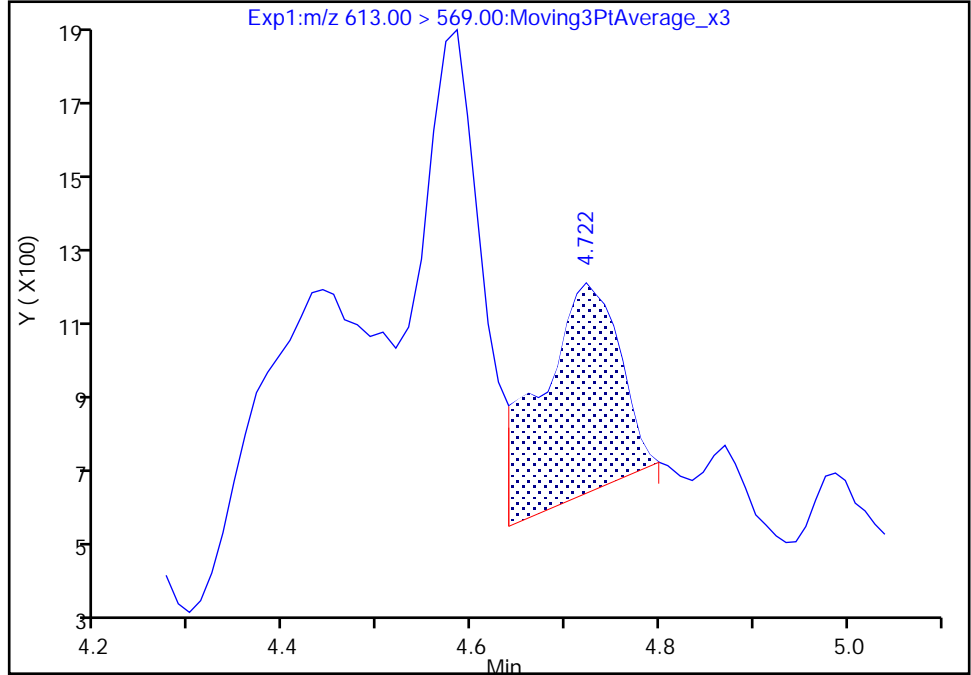
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

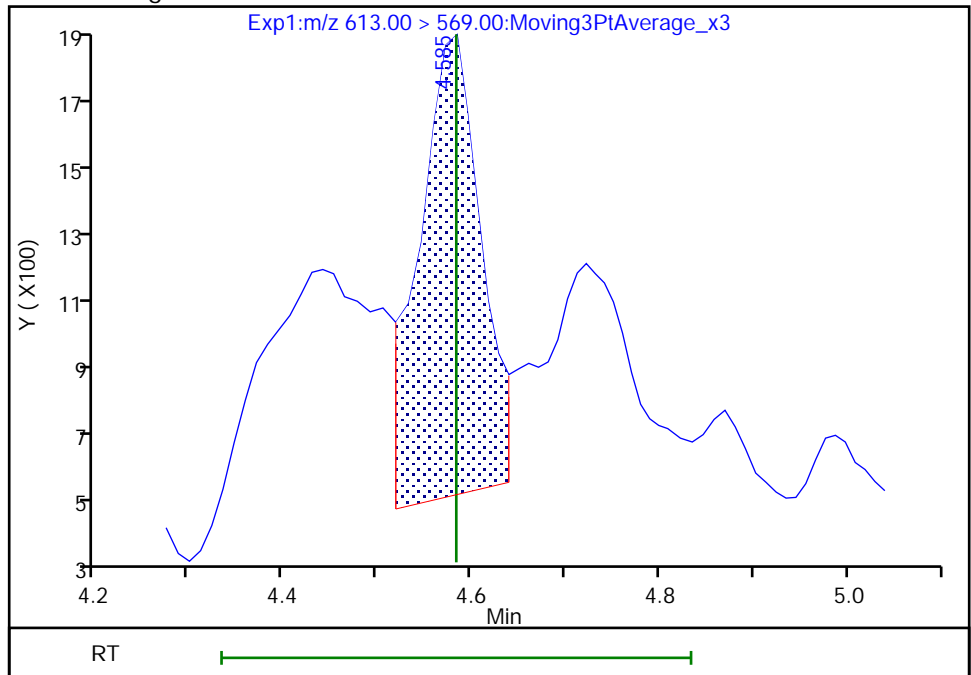
RT: 4.72
Area: 3115
Amount: 0.002861
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 5909
Amount: 0.005428
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:16:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

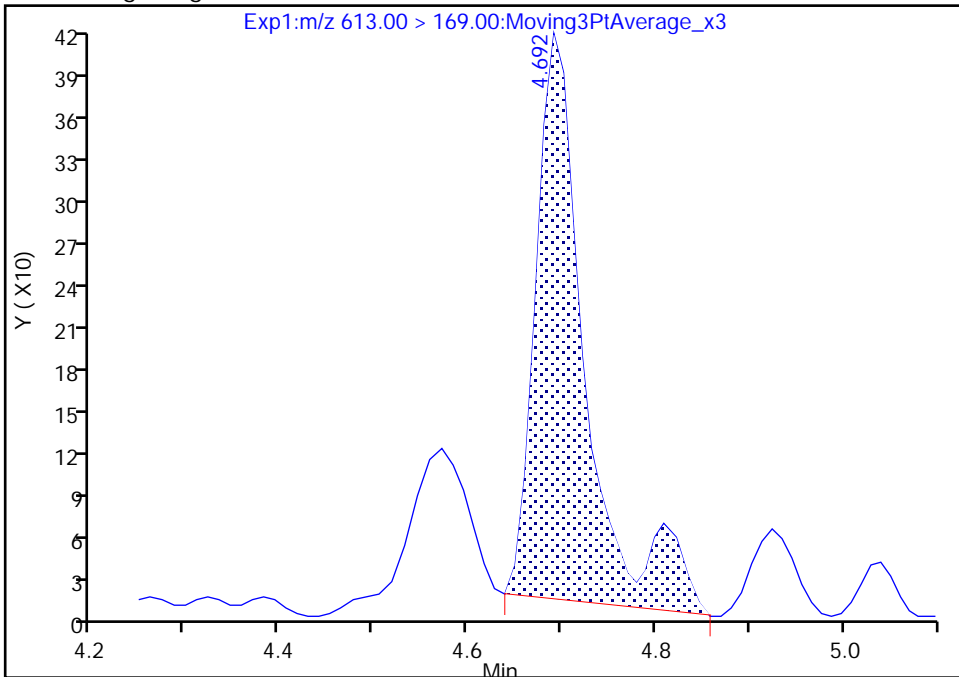
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

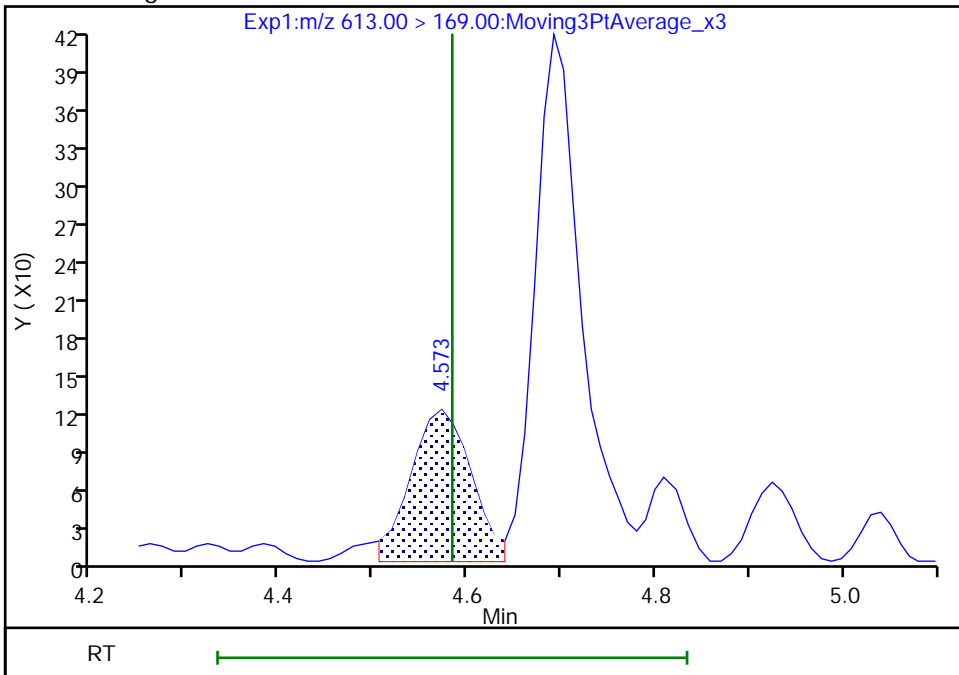
RT: 4.69
Area: 1517
Amount: 0.002861
Amount Units: ng/ml

Processing Integration Results



RT: 4.57
Area: 538
Amount: 0.005428
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:16:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

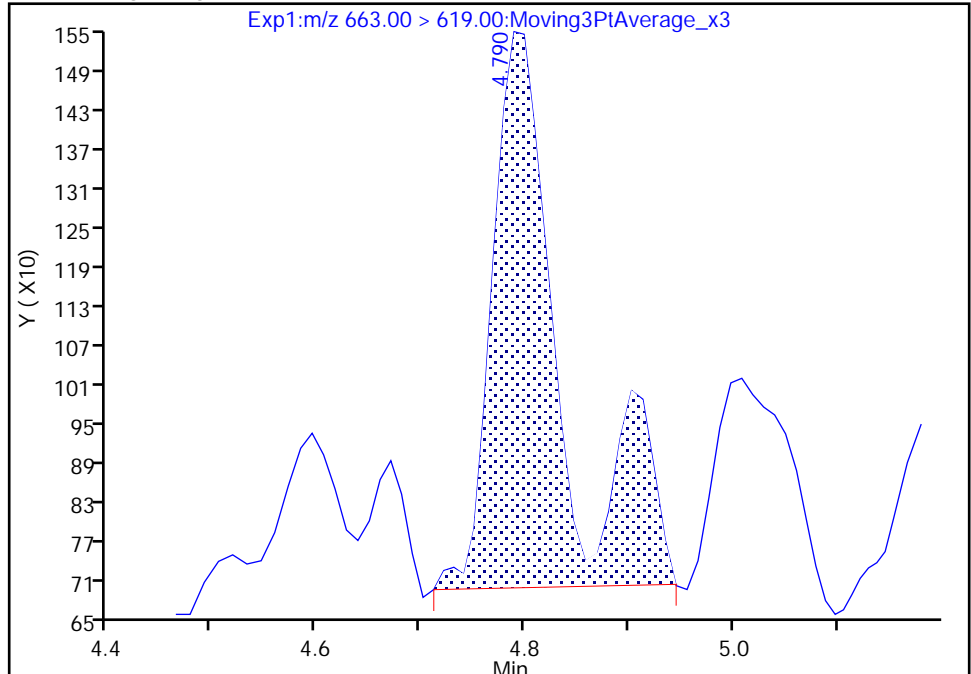
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Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

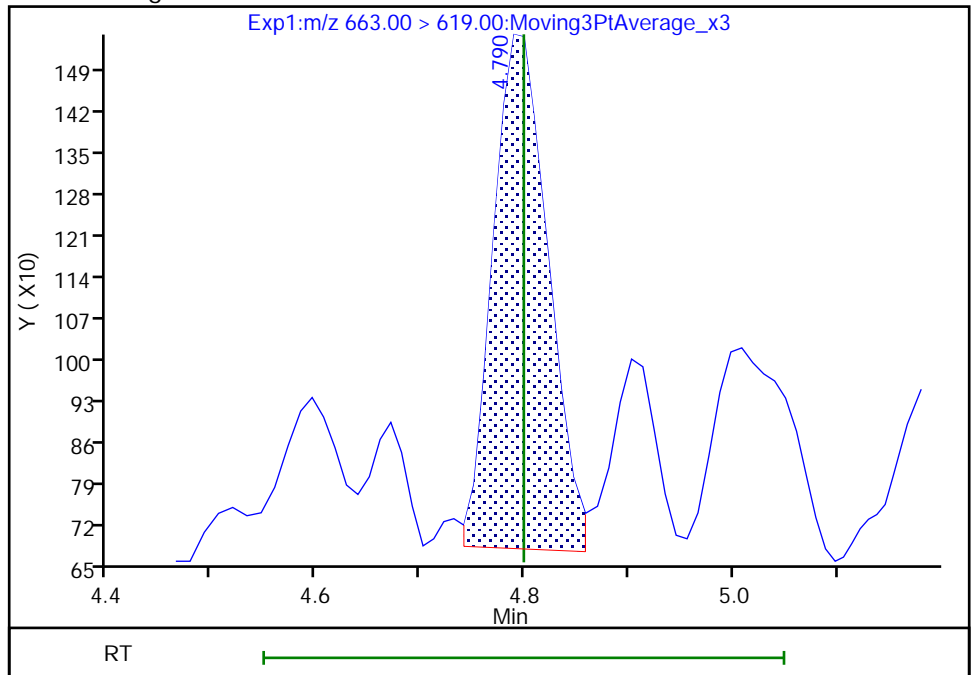
RT: 4.79
Area: 3918
Amount: 0.003603
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 3205
Amount: 0.002947
Amount Units: ng/ml

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

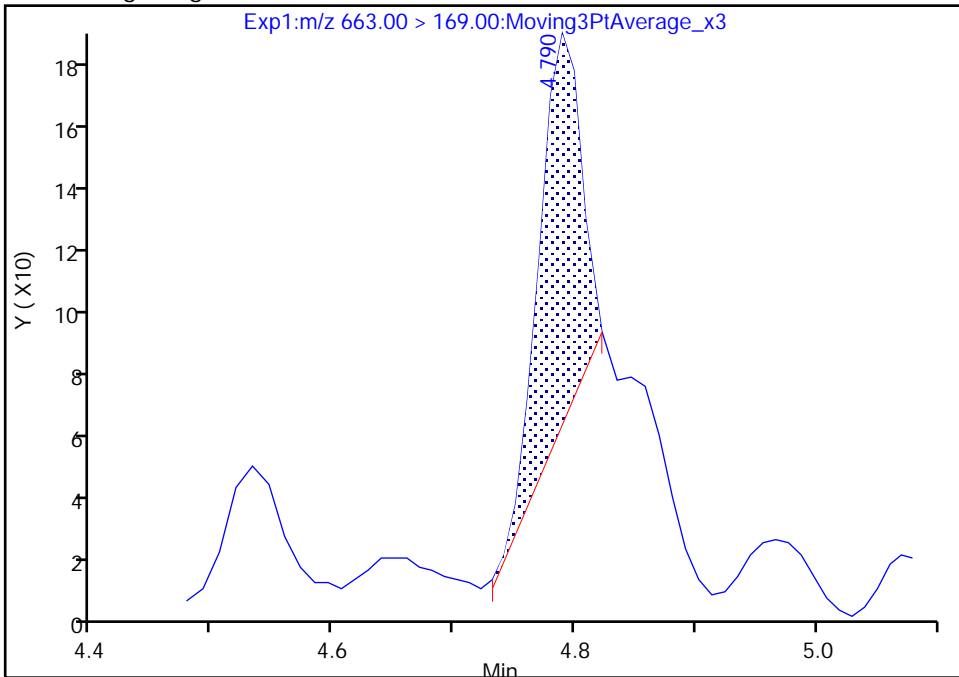
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

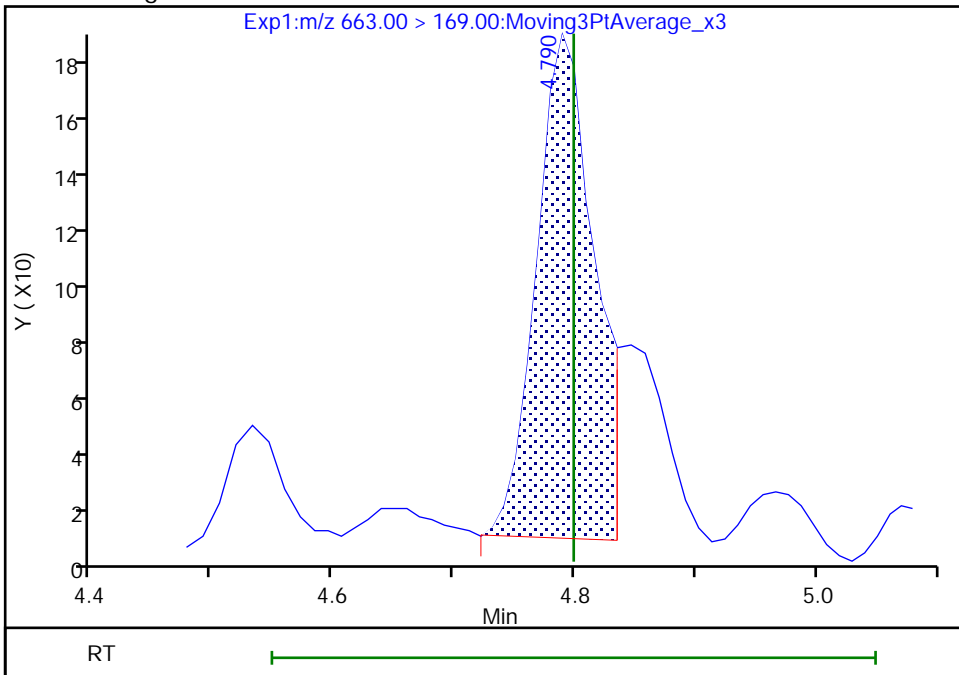
RT: 4.79
Area: 306
Amount: 0.003603
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 595
Amount: 0.002947
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:17:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

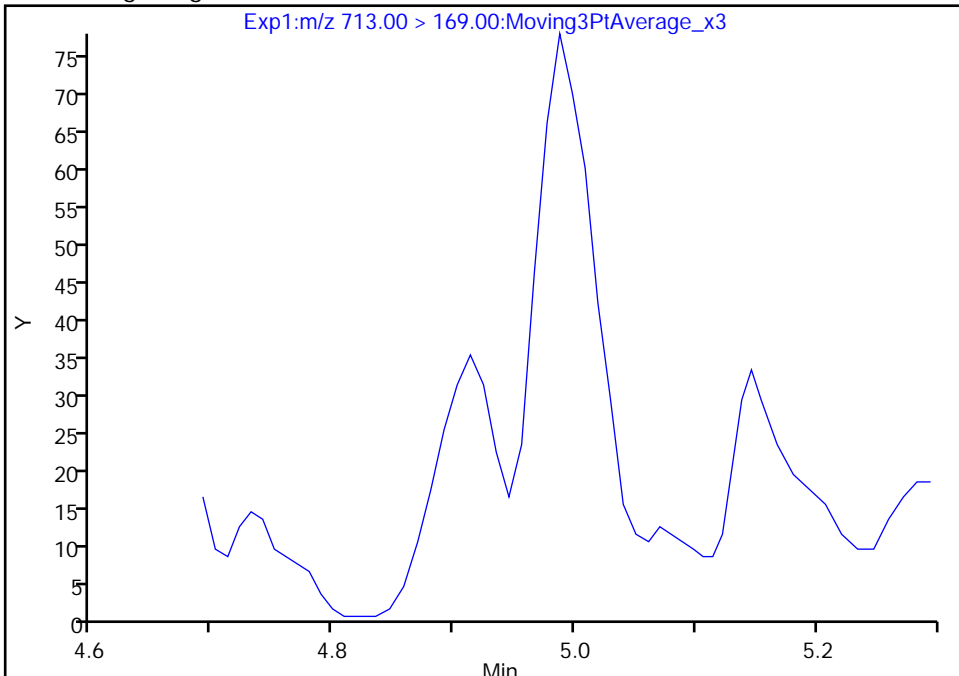
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

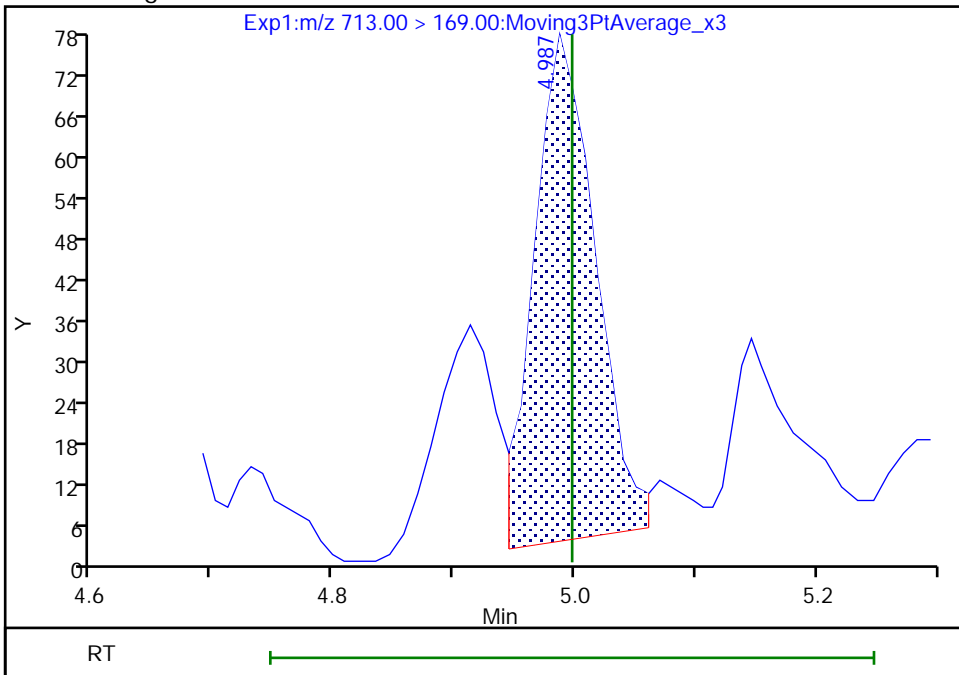
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 261
Amount: 0.002705
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:18:02
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

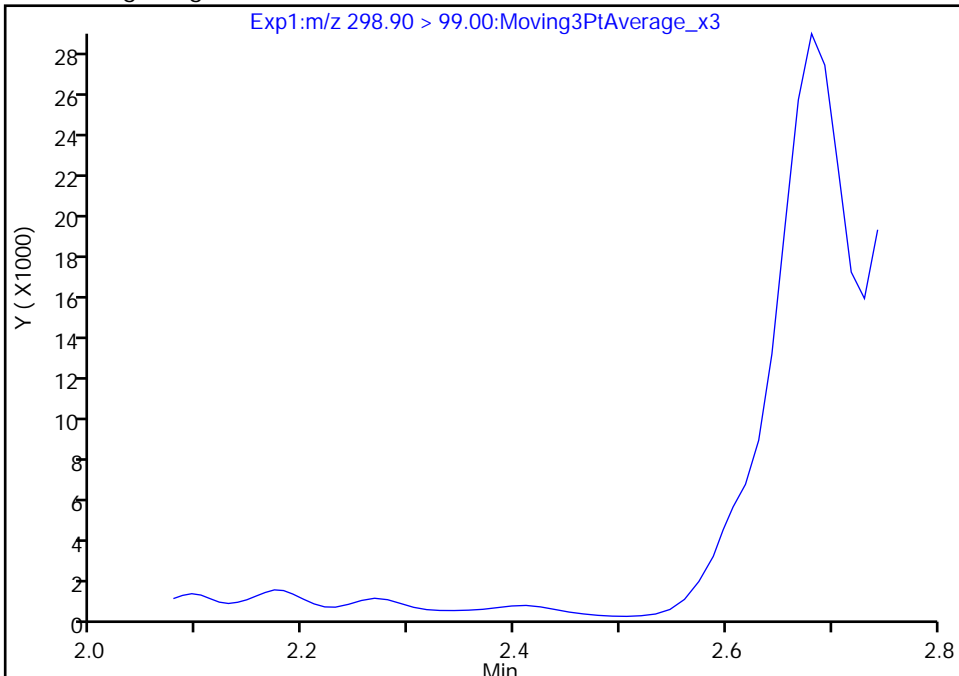
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

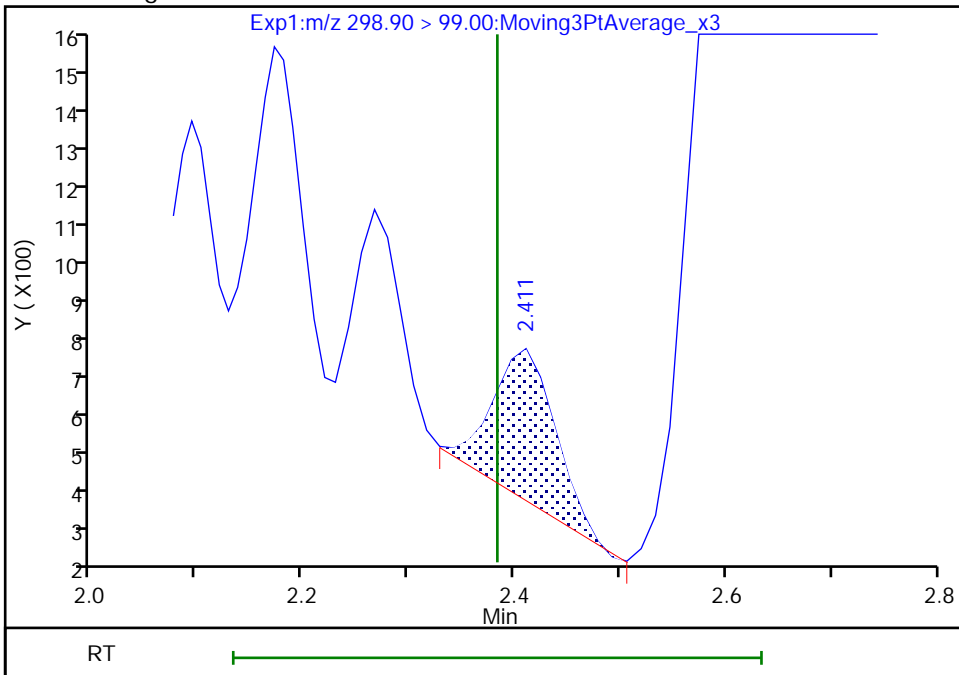
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1488
Amount: 0.001930
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:09:12
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

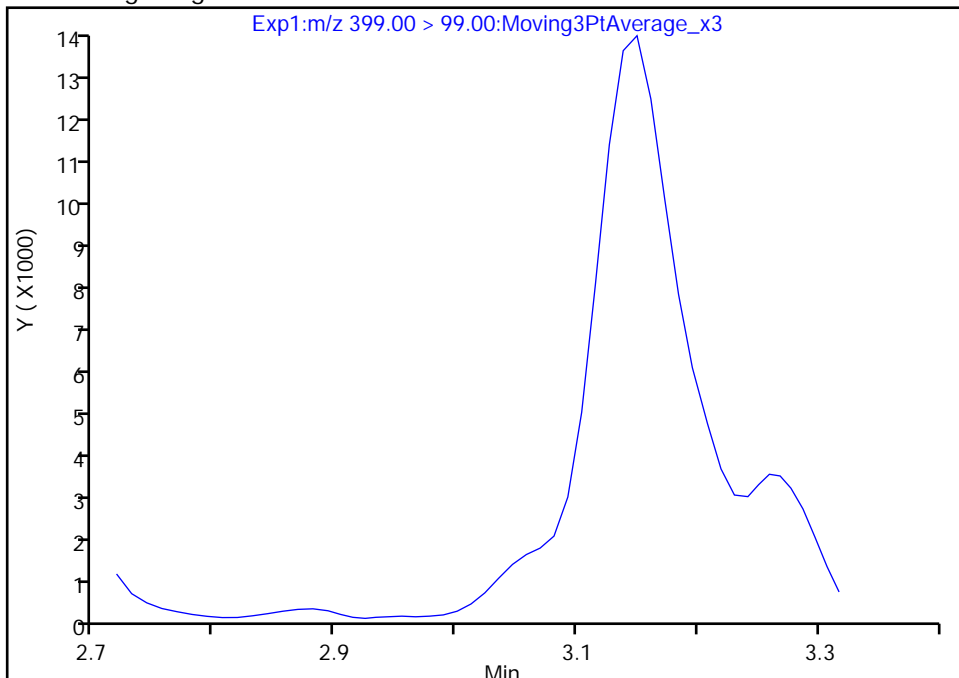
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

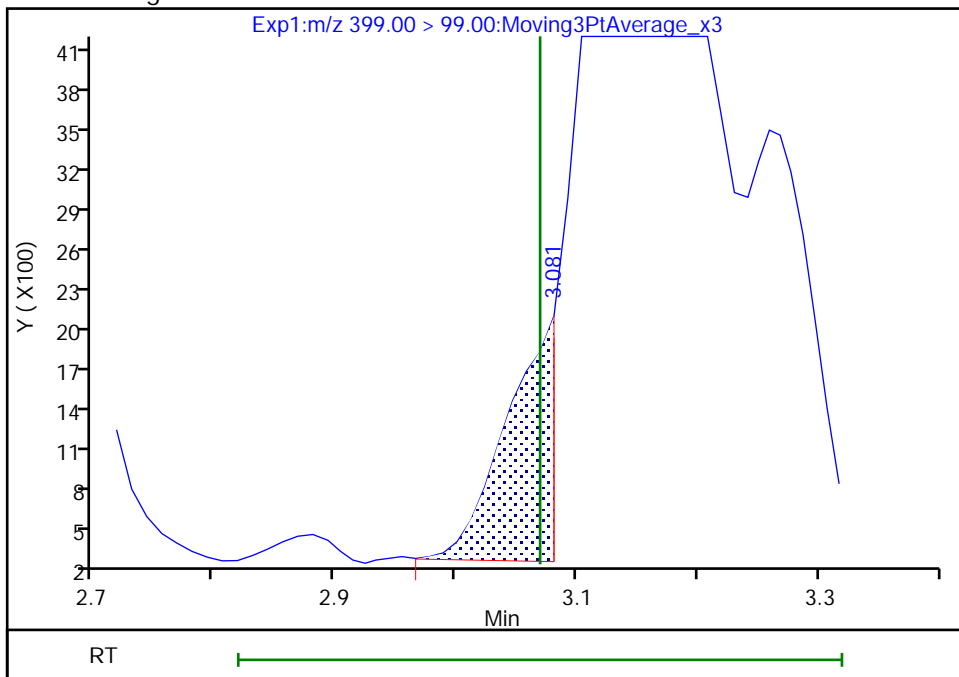
Not Detected
Expected RT: 3.07

Processing Integration Results



RT: 3.08
Area: 4836
Amount: 0.005386
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:10:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

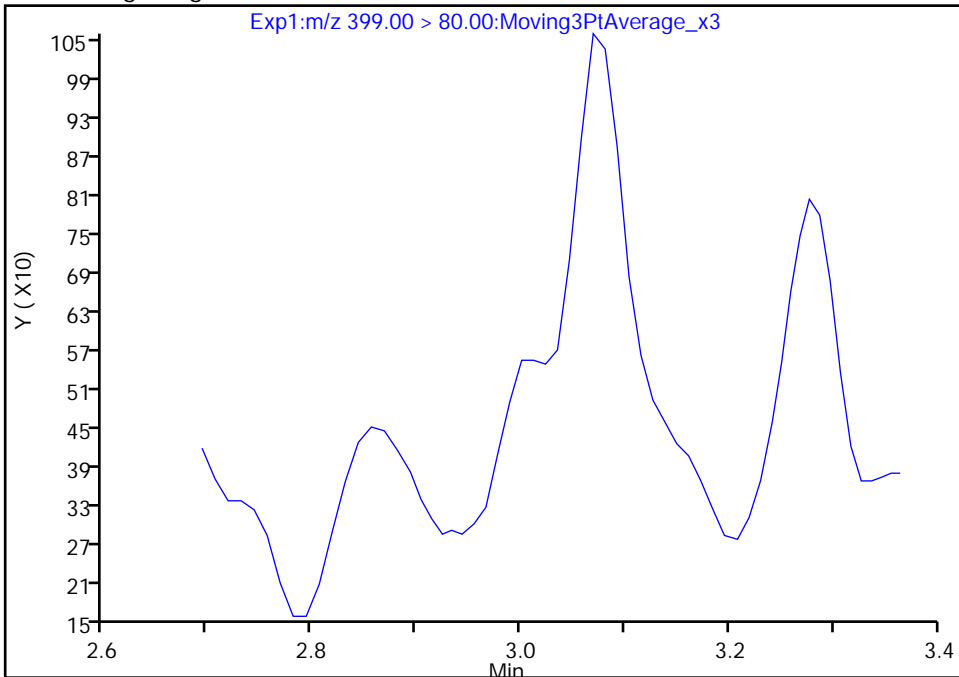
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

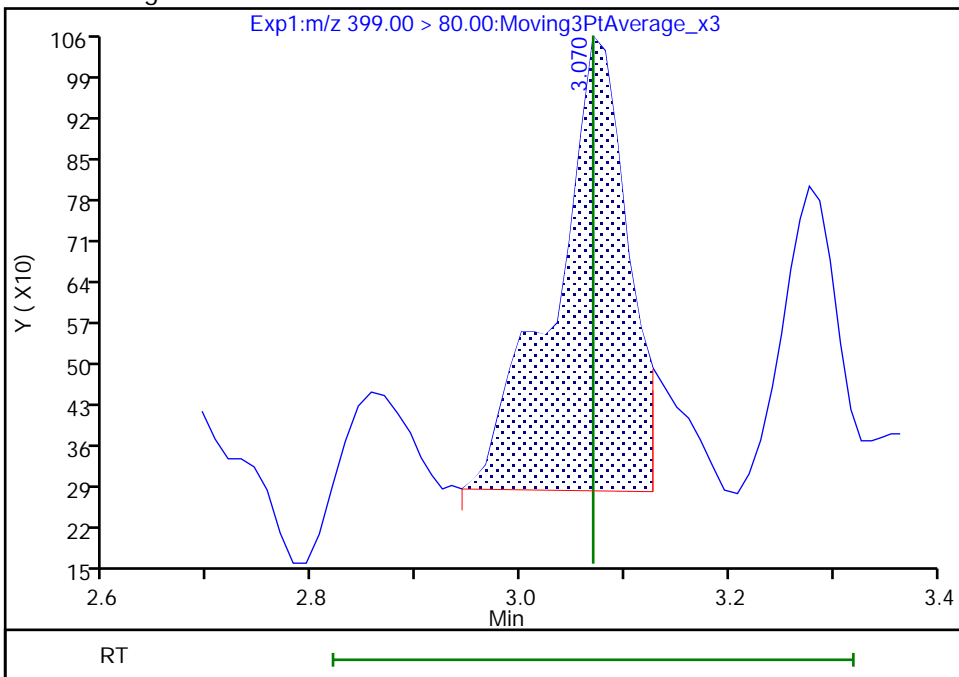
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 3776
Amount: 0.005386
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:10:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

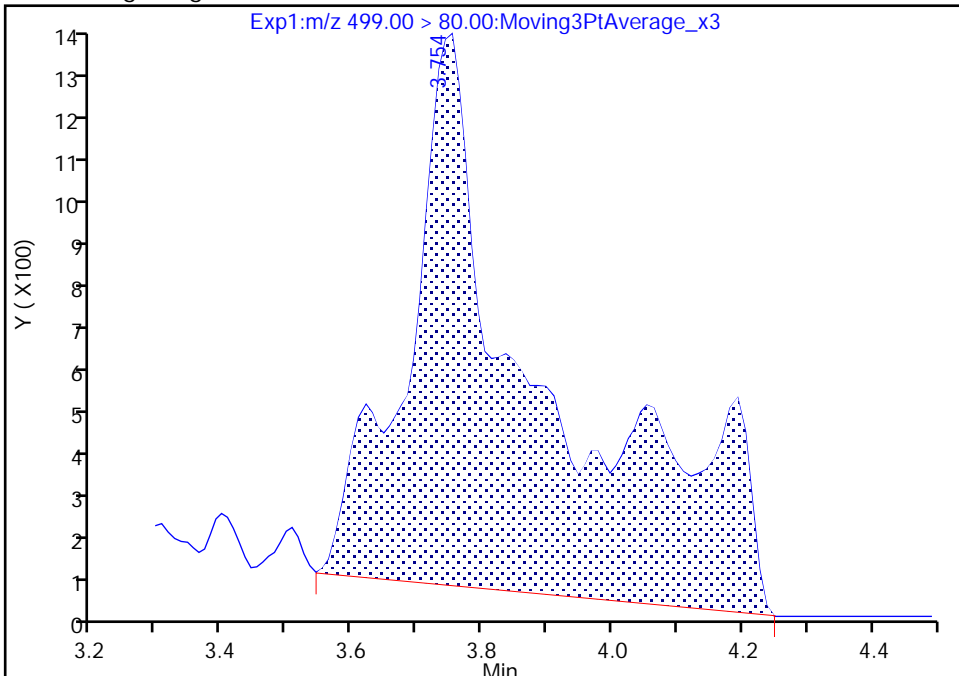
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

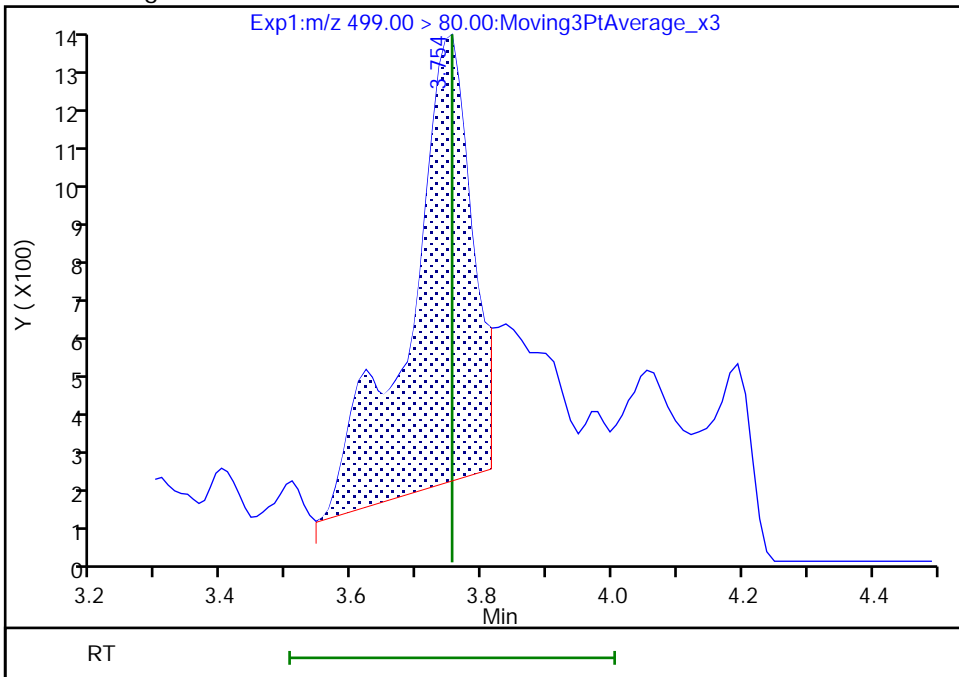
RT: 3.75
Area: 19267
Amount: 0.038338
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 7788
Amount: 0.015497
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:12:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

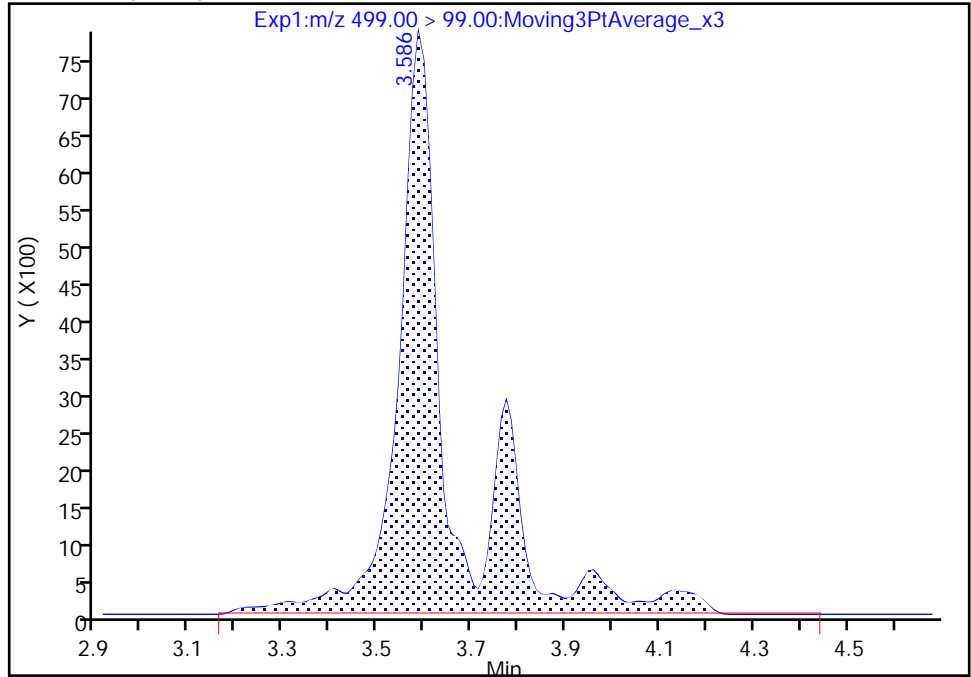
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

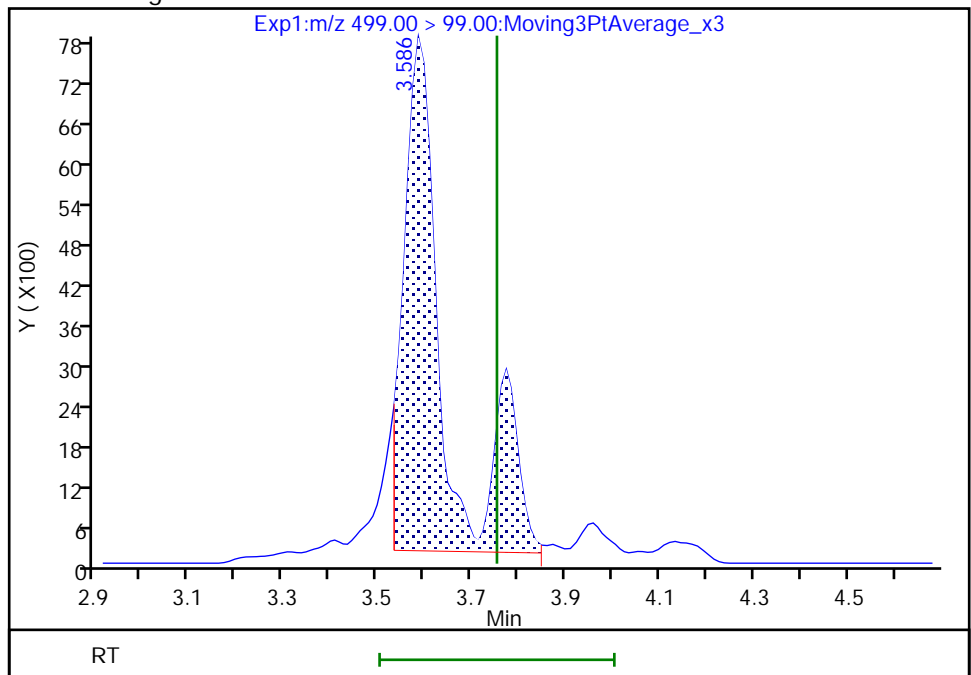
RT: 3.59
Area: 62148
Amount: 0.038338
Amount Units: ng/ml

Processing Integration Results



RT: 3.59
Area: 44752
Amount: 0.015497
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:12:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

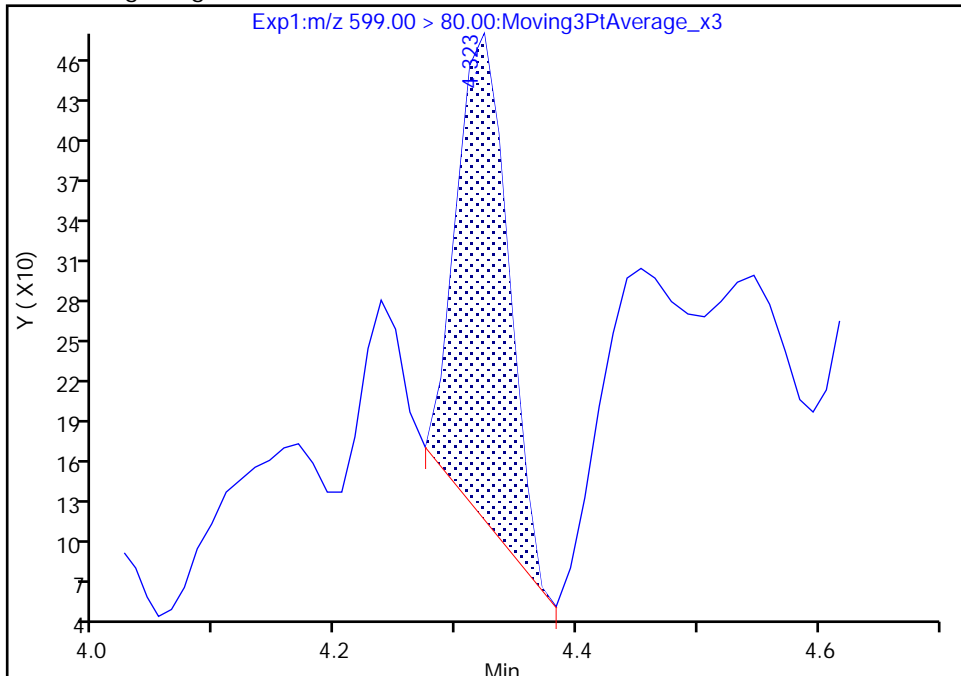
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

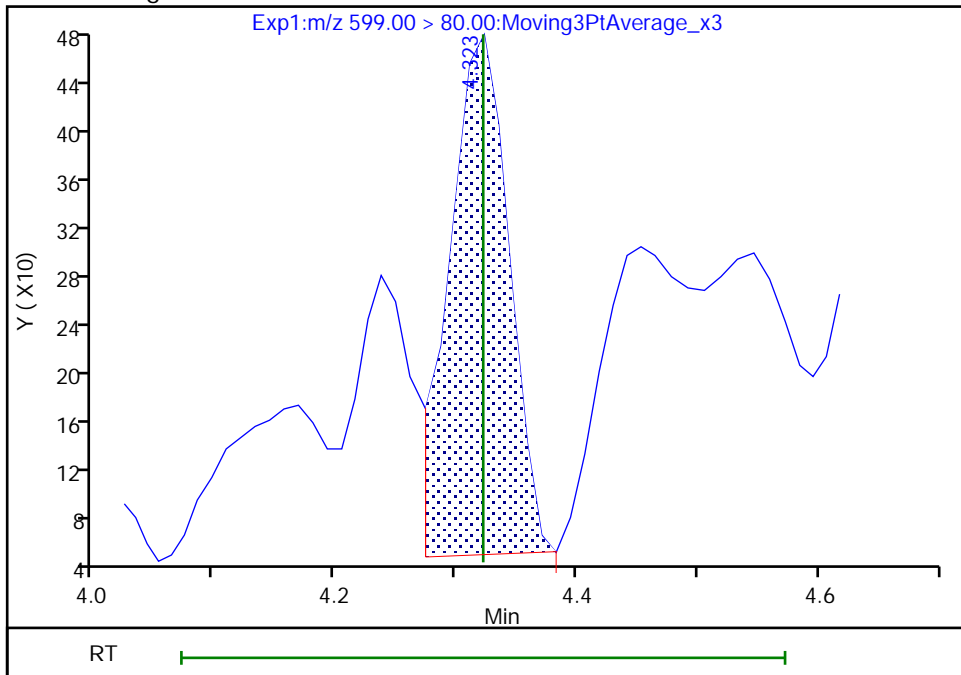
RT: 4.32
Area: 1036
Amount: 0.003330
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 1419
Amount: 0.004561
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:14:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

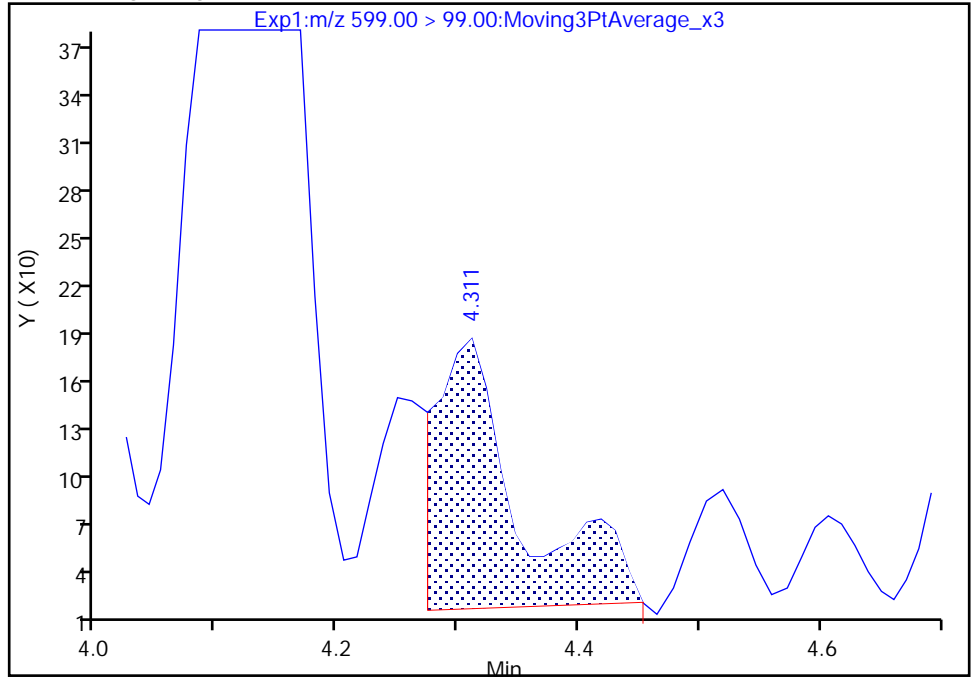
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

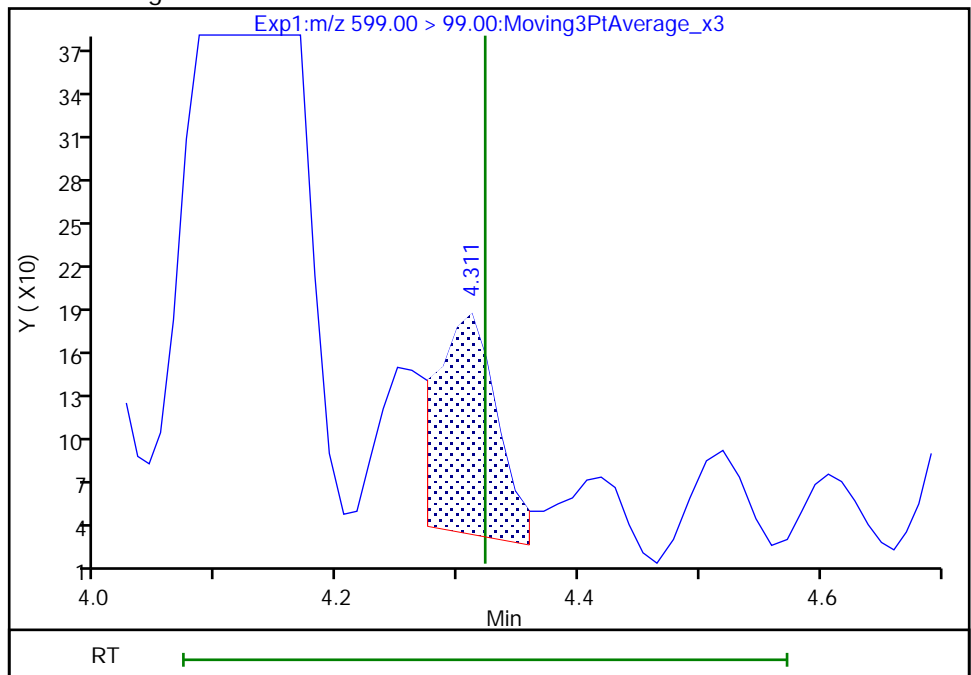
RT: 4.31
Area: 774
Amount: 0.003330
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 494
Amount: 0.004561
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:14:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

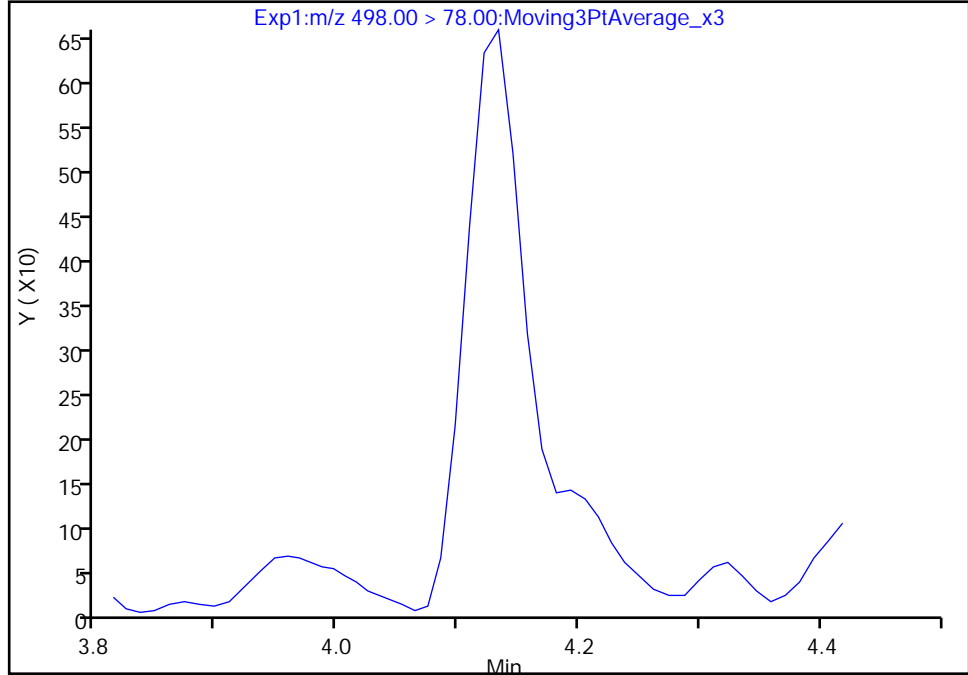
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

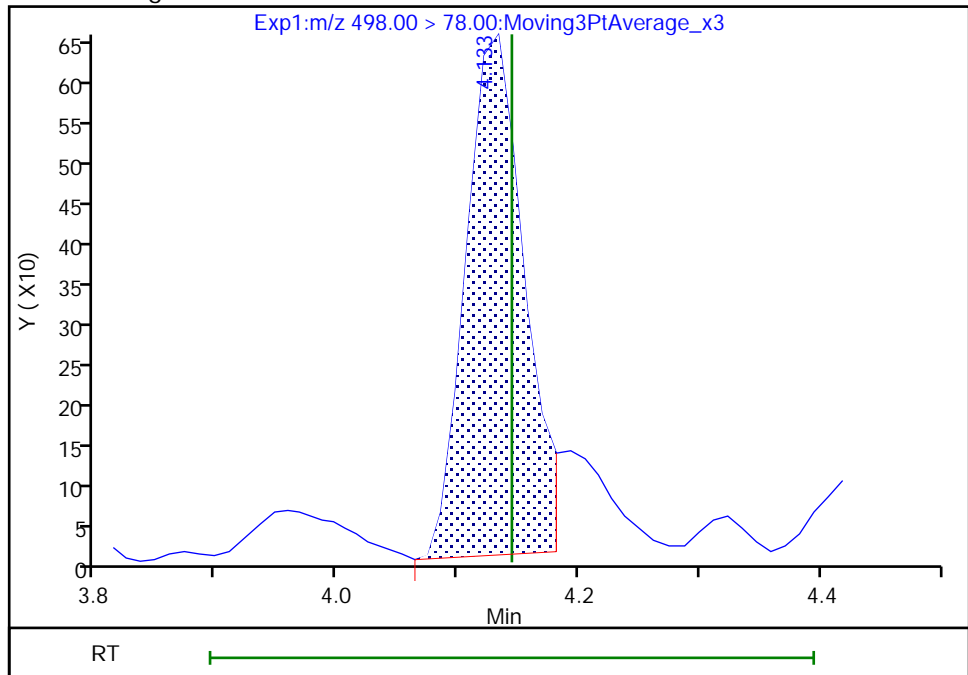
Signal: 1

Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.13
Area: 2155
Amount: 0.003034
Amount Units: ng/ml

Reviewer: SJ4N, 27-Jan-2023 17:13:44
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

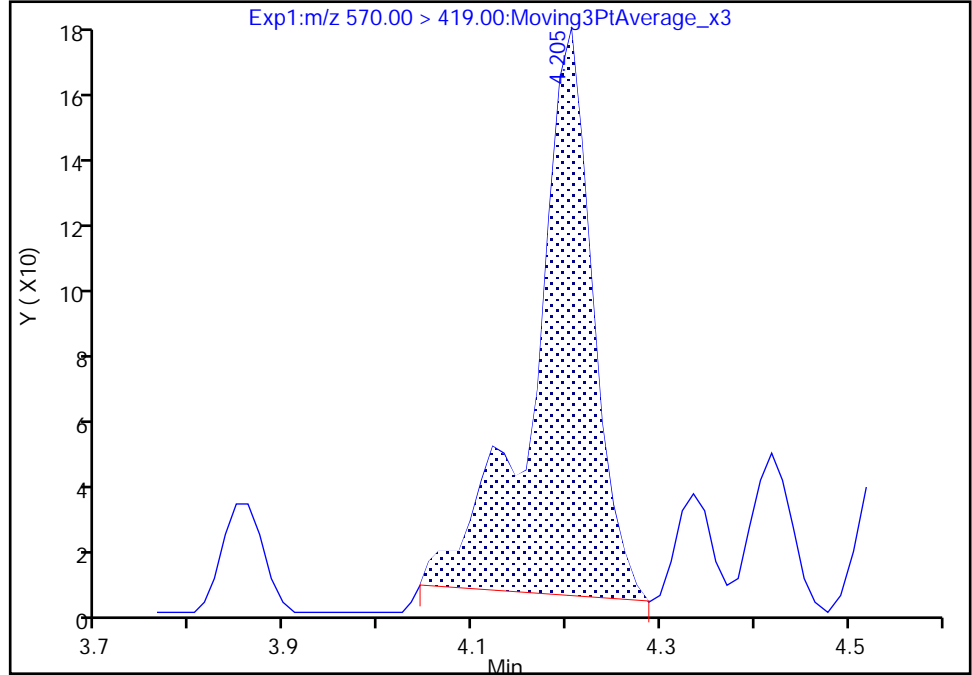
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

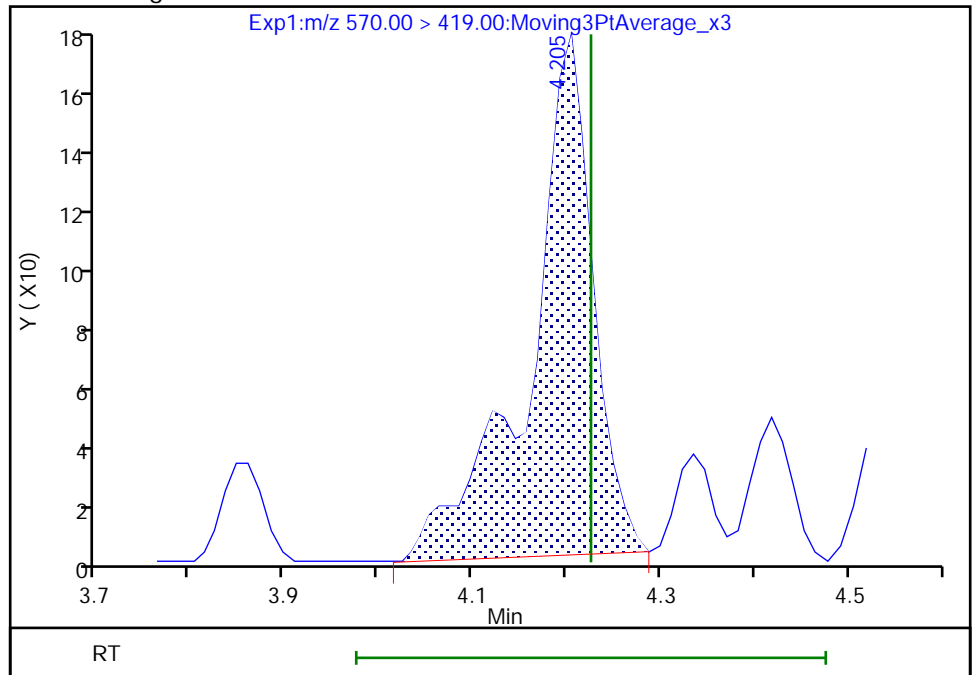
RT: 4.21
Area: 740
Amount: 0.003685
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 800
Amount: 0.003984
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:13:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

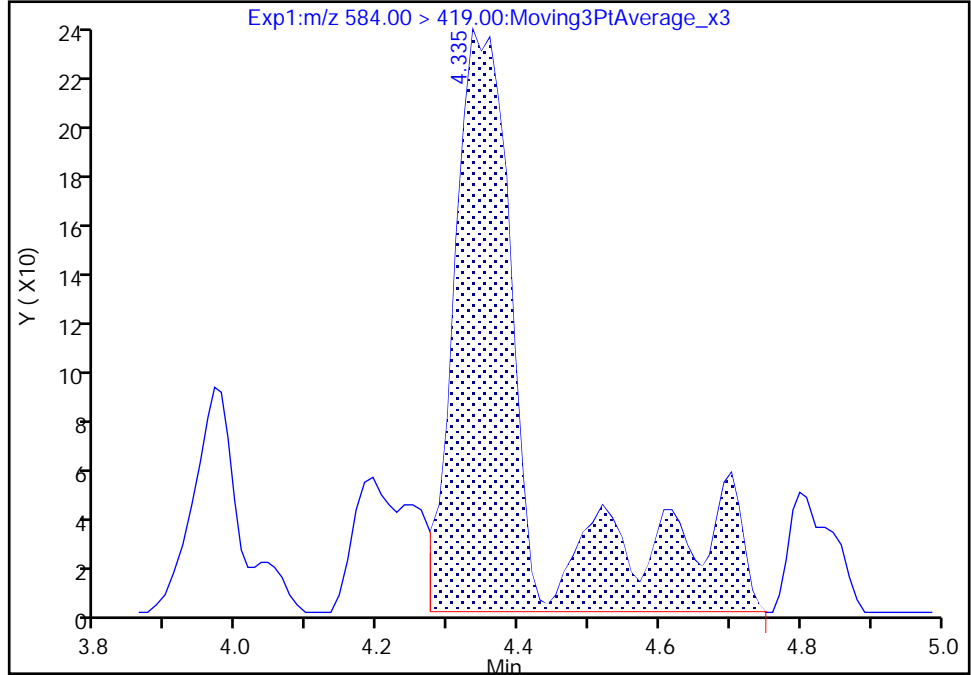
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

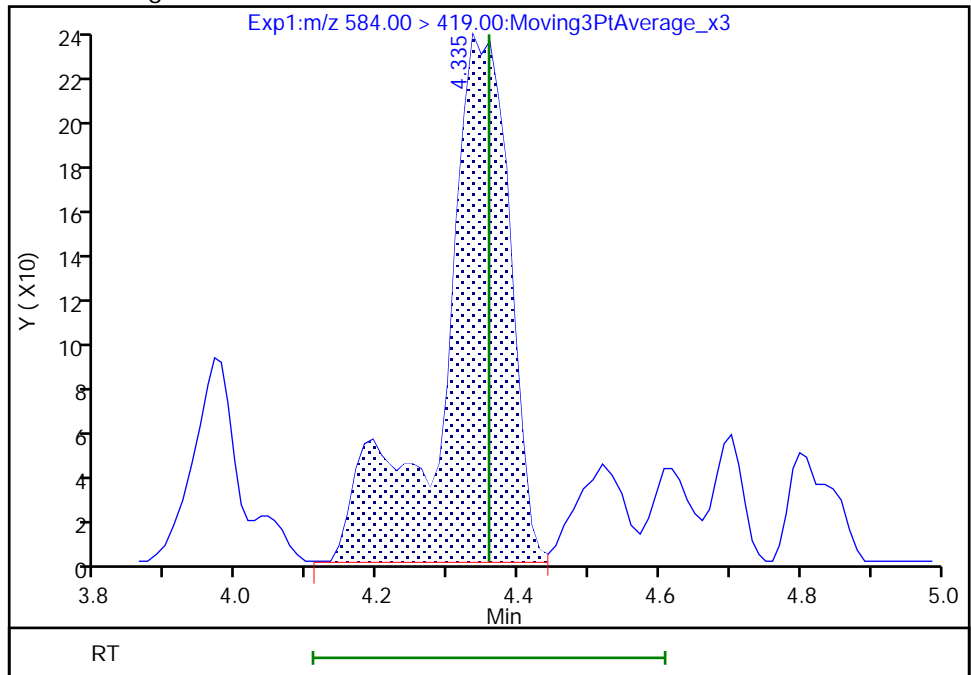
RT: 4.34
Area: 1751
Amount: 0.007056
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 1557
Amount: 0.006274
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:16:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

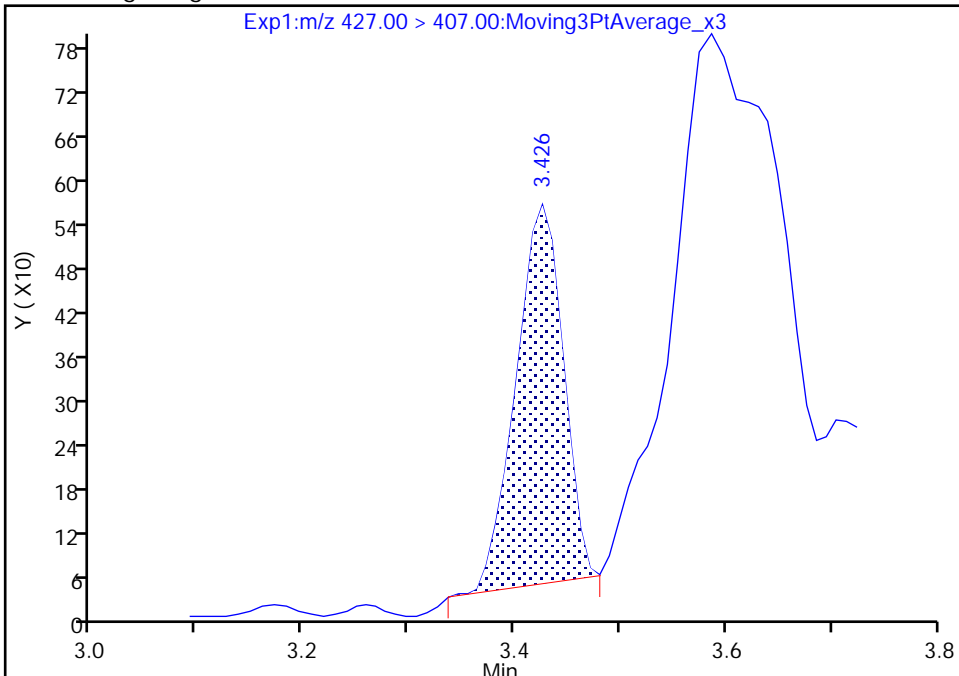
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

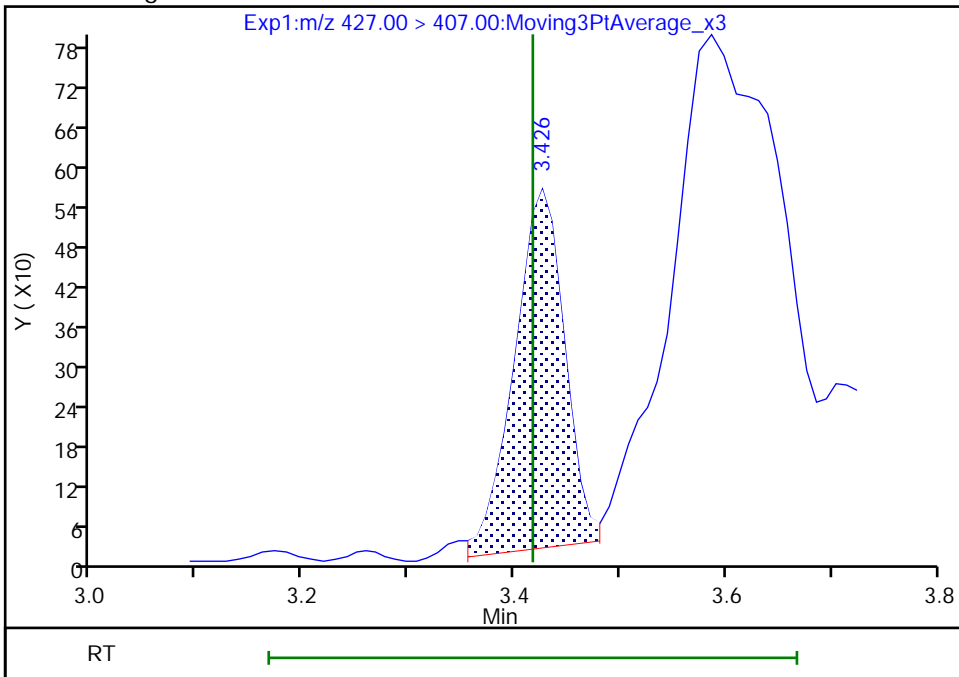
RT: 3.43
Area: 1609
Amount: 0.005753
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1787
Amount: 0.006390
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:11:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

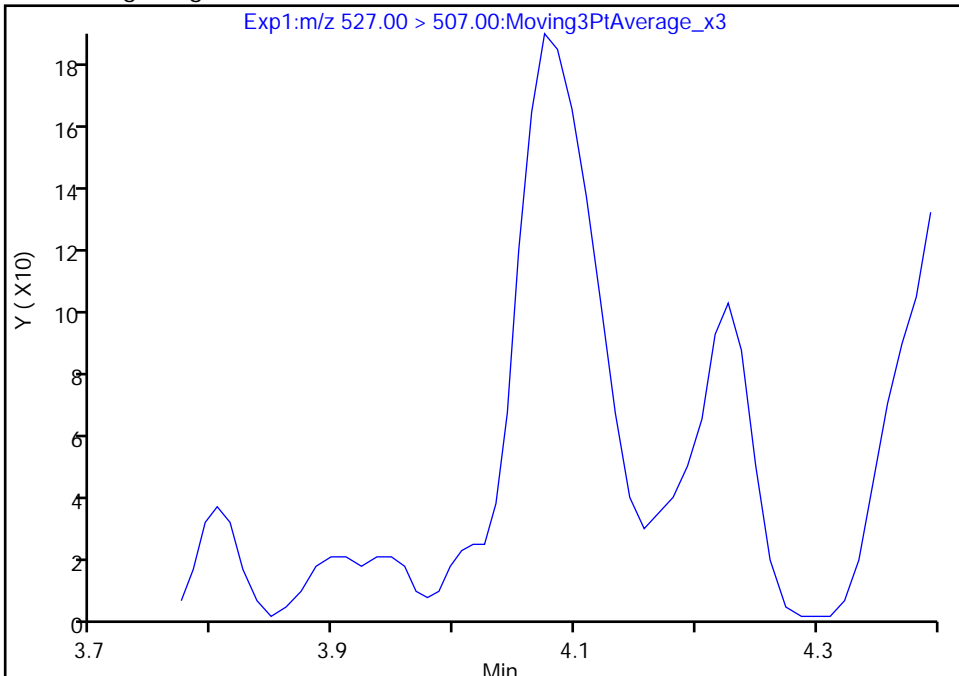
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A13.d
Injection Date: 26-Jan-2023 21:24:25 Instrument ID: LC812
Lims ID: 460-273105-A-4-A Lab Sample ID: 200-273105-4
Client ID: BCS-09-51_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

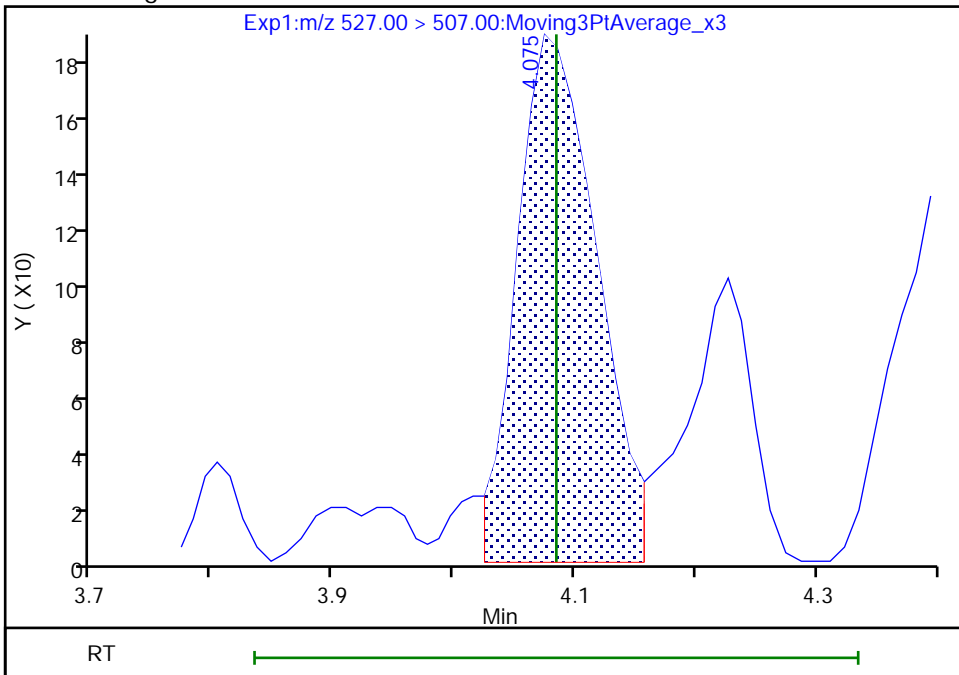
Processing Integration Results

Not Detected
Expected RT: 4.08



Manual Integration Results

RT: 4.07
Area: 848
Amount: 0.002633
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:13:30
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: FB-01172023P Lab Sample ID: 460-273105-5
 Matrix: Water Lab File ID: PA230123B22.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:05
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 303.2(mL) Date Analyzed: 01/23/2023 22:23
 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.: 187759 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.91	J	4.12	0.99
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.65	U	1.65	0.56
307-24-4	Perfluorohexanoic acid (PFHxA)	1.65	U	1.65	0.54
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.65	U	1.65	0.45
335-67-1	Perfluorooctanoic acid (PFOA)	1.65	U	1.65	0.63
375-95-1	Perfluorononanoic acid (PFNA)	1.65	U	1.65	0.40
335-76-2	Perfluorodecanoic acid (PFDA)	1.65	U	1.65	0.38
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.65	U	1.65	0.45
307-55-1	Perfluorododecanoic acid (PFDoA)	1.65	U	1.65	0.40
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.65	U	1.65	0.40
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.65	U	1.65	0.53
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.65	U	1.65	0.51
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.65	U	1.65	0.45
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.65	U	1.65	0.34
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.65	U	1.65	0.33
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.65	U	1.65	0.70
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.65	U	1.65	0.76
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.12	U	4.12	1.57
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.12	U	4.12	1.32
27619-97-2	6:2 FTS	4.12	U	4.12	1.07
39108-34-4	8:2 FTS	1.65	U	1.65	0.63

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: FB-01172023P Lab Sample ID: 460-273105-5
 Matrix: Water Lab File ID: PA230123B22.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:05
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 303.2(mL) Date Analyzed: 01/23/2023 22:23
 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.: 187759 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	70		50-150
STL00992	13C4 PFBA	87		50-150
STL01893	13C5 PFPeA	84		50-150
STL00993	13C2 PFHxA	83		50-150
STL01892	13C4 PFHpA	85		50-150
STL00990	13C4 PFOA	91		50-150
STL00995	13C5 PFNA	86		50-150
STL00996	13C2 PFDA	81		50-150
STL00997	13C2 PFUnA	75		50-150
STL00998	13C2 PFDoA	72		50-150
STL02116	13C2 PFTeDA	72		50-150
STL02337	13C3 PFBS	74		50-150
STL00994	18O2 PFHxS	78		50-150
STL00991	13C4 PFOS	86		50-150
STL02118	d3-NMeFOSAA	89		50-150
STL02117	d5-NEtFOSAA	94		50-150
STL02279	M2-6:2 FTS	89		50-150
STL02280	M2-8:2 FTS	82		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
 Lims ID: 460-273105-A-5-A
 Client ID: FB-01172023P
 Sample Type: Client
 Inject. Date: 23-Jan-2023 22:23:56 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-5-A
 Misc. Info.: 200-0054084-022 Plate: 1 Rack: 2
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Jan-2023 18:25:00 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1668

First Level Reviewer: khanphomeea Date: 24-Jan-2023 14:15:32
 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	2.094	-0.018	0.603	1773673	1.08	86.7	14367	
2 Perfluorobutanoic acid										Ma
212.90 > 169.00	2.076	2.094	-0.018	1.000	135992	0.0578		14.7		M
D 3 13C5 PFPeA	267.90 > 223.00	2.369	2.370	-0.001	0.688	1387995	1.05	83.9	4098	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.006	15282	0.0120		0.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1256450	0.8648	74.4	118895	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.397	2.384	0.013	1.000	1346	0.001162	Target=2.10	1.8		M
298.90 > 99.00	2.383	2.384	-0.001	0.994	982		1.37(1.05-3.15)	0.7		M
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.789	1420157	1.03	82.6	6498	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.717	2.706	0.011	1.000	13991	0.0117	Target=13.16	2.6		
313.00 > 119.00	2.717	2.706	0.011	1.000	1347		10.39(6.58-19.74)	4.3		
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.895	974024	0.9214	77.9	4222	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.080	3.069	0.011	1.000	3448	0.003814	Target=3.18	15.8		M
399.00 > 99.00	3.080	3.069	0.011	1.000	1266		2.72(1.59-4.77)	2.5		M
D 9 13C4 PFHpA	367.00 > 322.00	3.091	3.069	0.022	0.898	1467253	1.07	85.3	7246	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.080	3.069	0.011	0.996	5060	0.004048	Target=4.10	1.2		RM
363.00 > 169.00	3.091	3.069	0.022	1.000	2607		1.94(2.05-6.16)	10.4		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	175417	1.05		88.6	882	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.416	3.417	-0.001	0.995	531	0.001570		1.2	M	
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1657812	1.14		90.9	8347	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1779936	1.25			5038	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.443	3.426	0.017	1.000	7590	0.005259	Target=2.71	0.6	RM	
413.00 > 169.00	3.443	3.426	0.017	1.000	1420		5.35(1.36-4.07)	4.5	M	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	659656	1.03		85.9	4404	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.793	3.754	0.039	1.011	3678	0.005485	Target=4.23	4.1	M	
499.00 > 99.00	3.793	3.754	0.039	1.011	684		5.38(2.11-6.34)	2.5	M	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.773	3.774	-0.001	1.000	2832	0.002281	Target=8.78	0.7	M	
463.00 > 169.00	3.773	3.774	-0.001	1.000	388		7.30(4.39-13.17)	7.3	M	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1519476	1.07		85.5	5489	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1470875	1.01		80.7	9627	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.084	4.074	0.010	1.003	2783	0.002212	Target=11.13	1.0	M	
513.00 > 169.00	4.073	4.074	-0.001	1.000	296		9.40(5.56-16.69)	2.6	M	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	206081	0.9871		82.4	1609	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.120	4.144	-0.024	0.994	239	0.000285		2.8	M	
D 21 13C8 FOSA										
506.00 > 78.00	4.143	4.144	-0.001	1.204	1042570	0.8800		70.4	3286	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	318934	1.11		89.0	2288	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.248	4.226	0.022	1.005	142	0.000617		1.4	M	
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.298	4.322	-0.024	1.145	71	0.000171	Target=2.45	1.2	RM	
599.00 > 99.00	4.321	4.322	-0.001	1.151	91		0.78(1.23-3.68)	1.4	M	
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1183989	0.9410		75.3	10395	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.369	4.358	0.011	1.003	130	0.000543		2.0	M	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	322376	1.17		93.7	752	
D 36 13C2 PFDoA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1137573	0.9017		72.1	4706	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.983	4.998	-0.015	0.998	154	0.001575	Target=0.83		5.3	M
713.00 > 219.00	5.005	4.998	0.007	1.002	174		0.89(0.42-1.25)		6.3	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.451	978708	0.9019		72.2	3087	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d

Injection Date: 23-Jan-2023 22:23:56

Instrument ID: LC812

Lims ID: 460-273105-A-5-A

Lab Sample ID: 200-273105-5

Client ID: FB-01172023P

Operator ID: LC812user

ALS Bottle#: 22

Worklist Smp#: 22

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

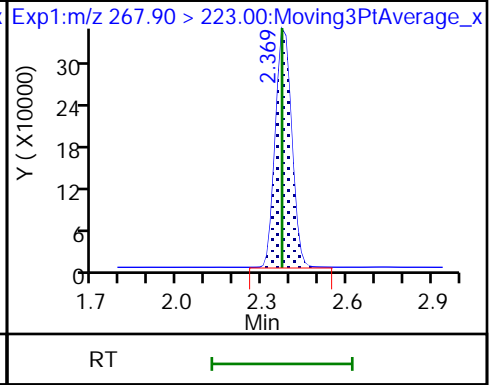
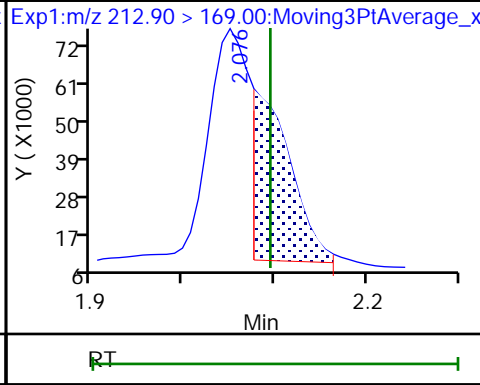
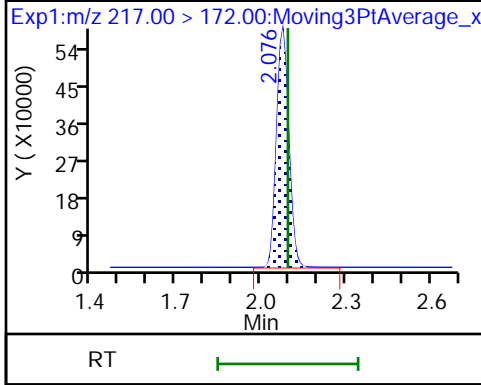
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

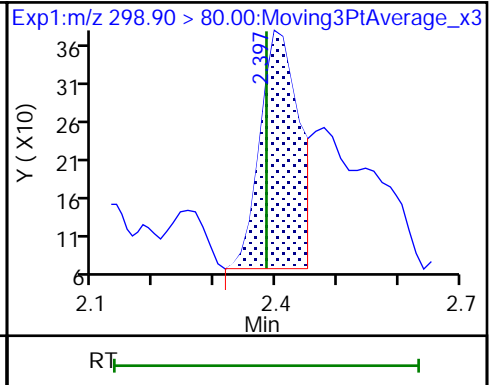
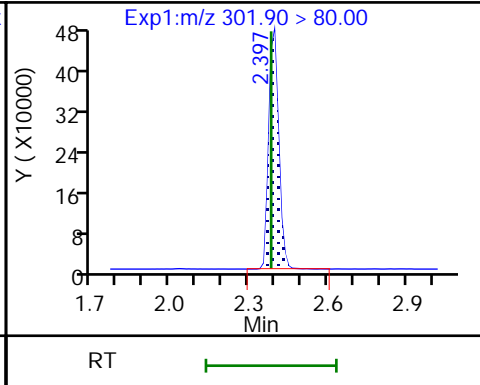
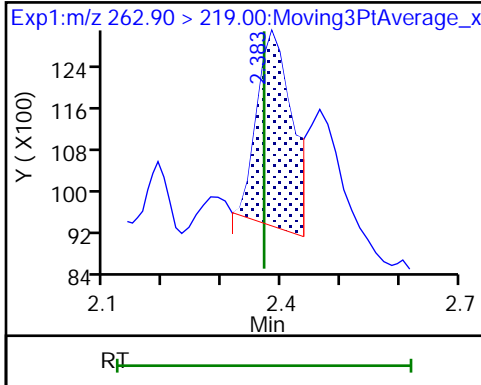
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

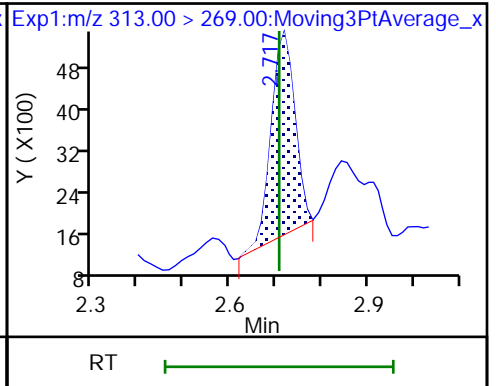
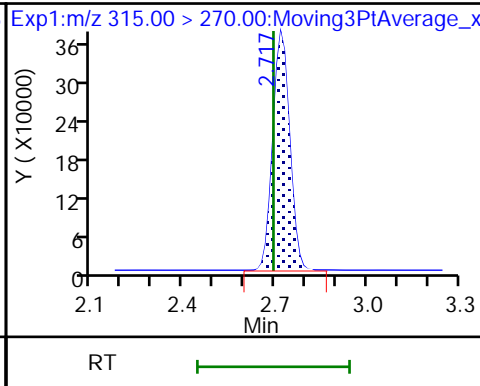
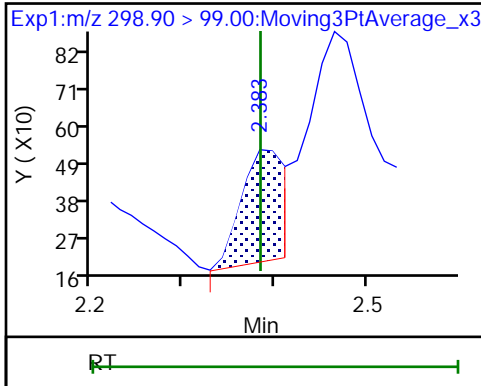
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

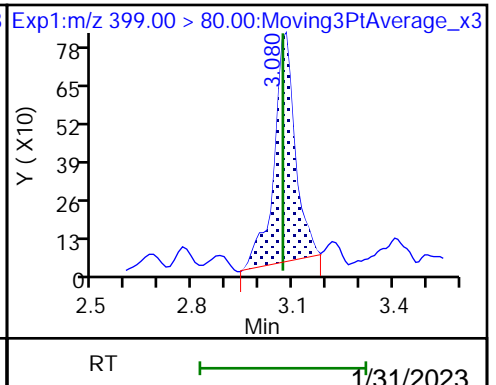
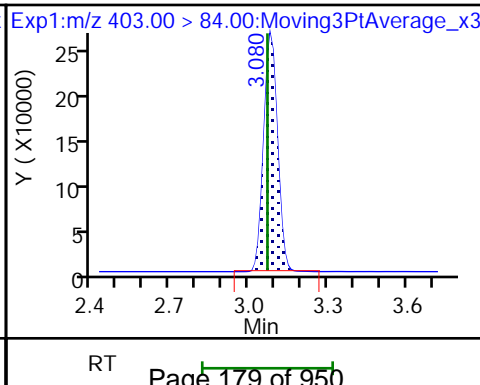
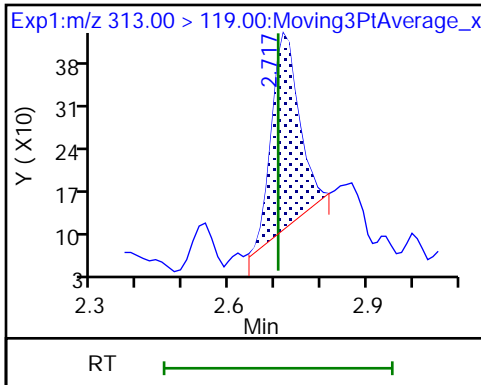
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid

D 11 18O2 PFHxS

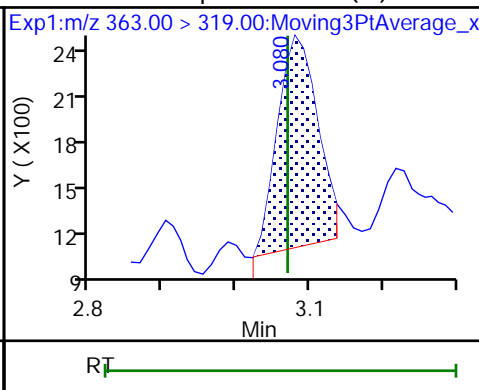
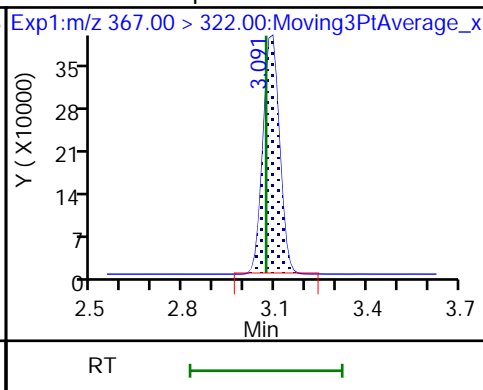
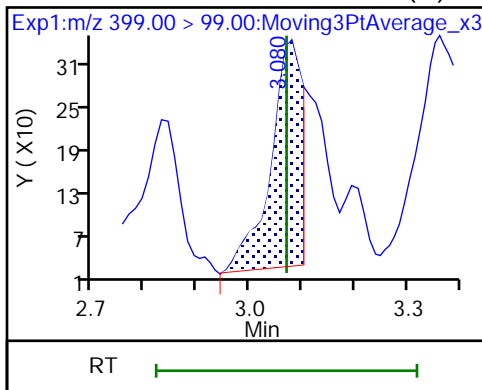
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

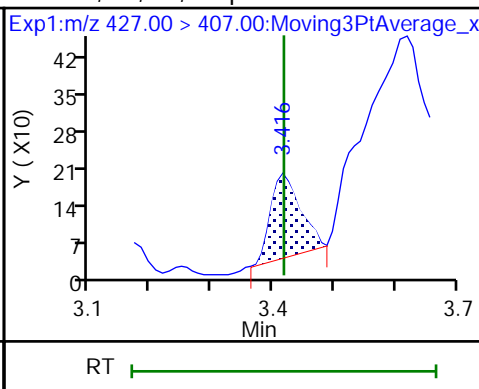
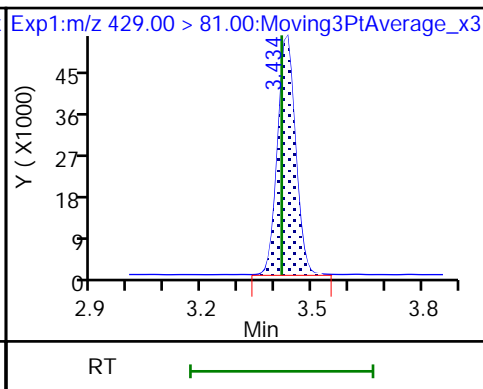
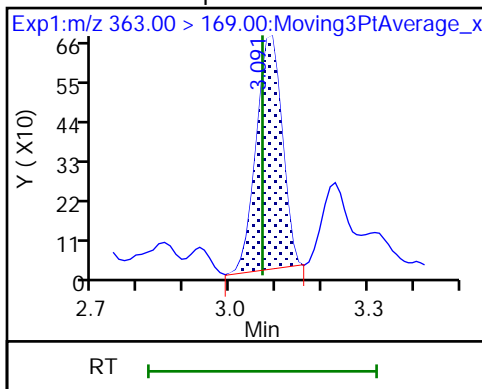
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid

D 12 M2-6:2 FTS

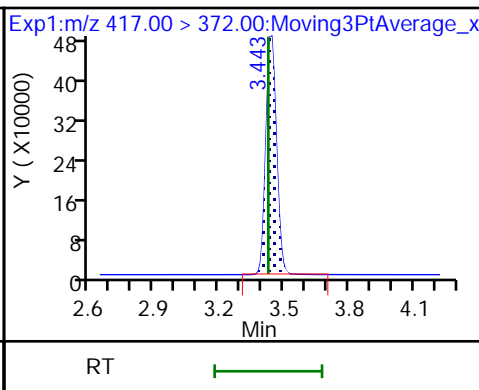
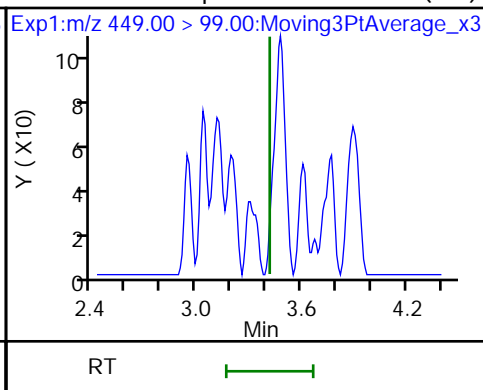
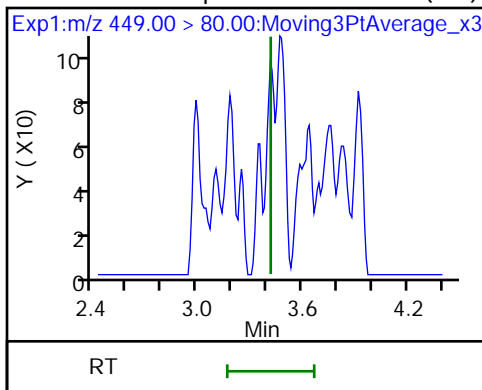
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid (ND)

16 Perfluoroheptanesulfonic acid (ND)

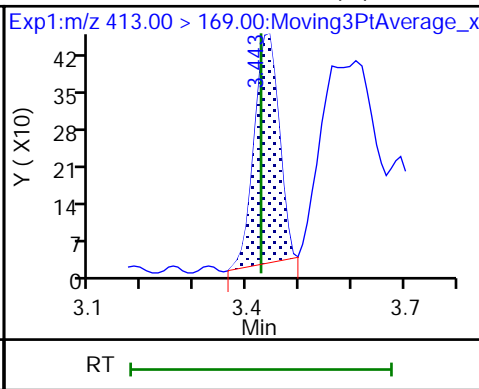
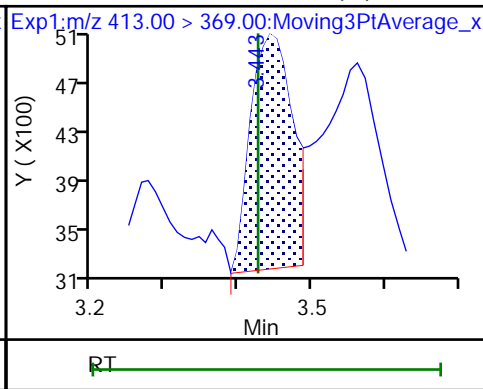
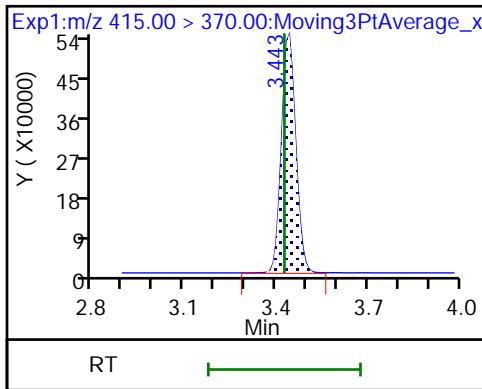
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

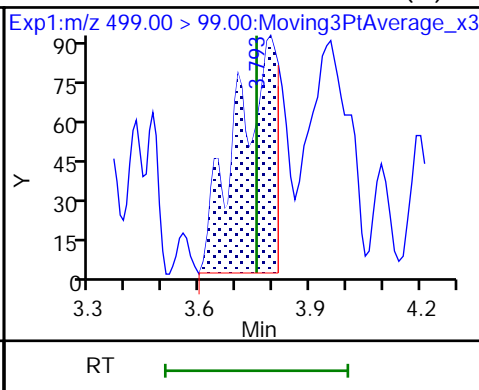
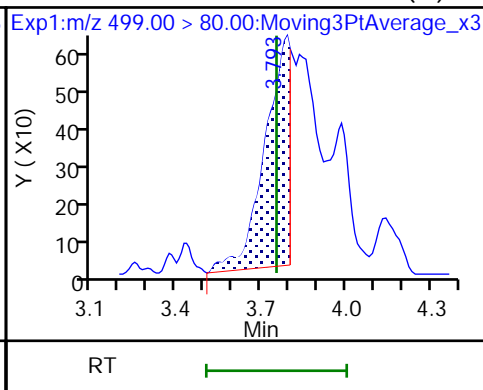
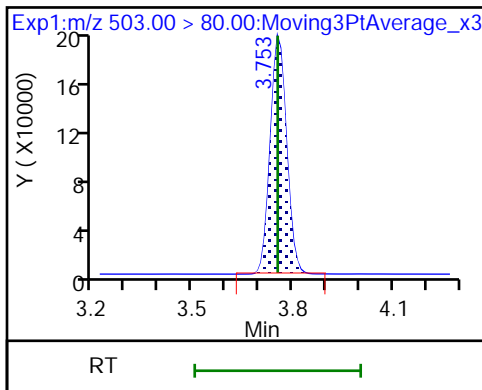
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

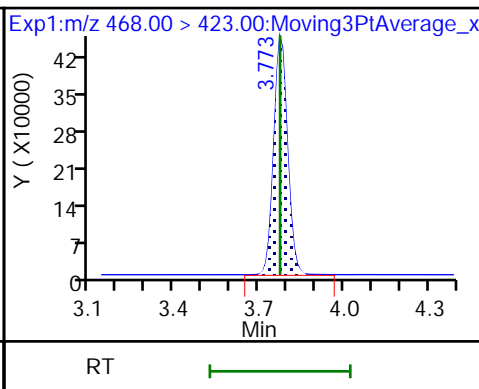
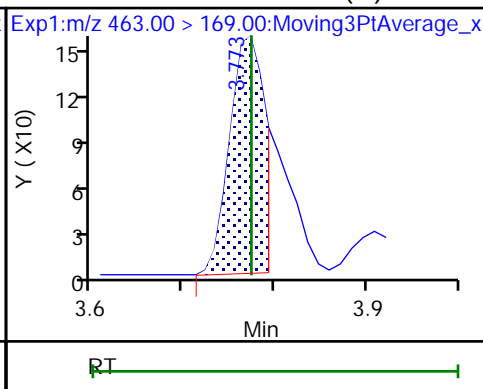
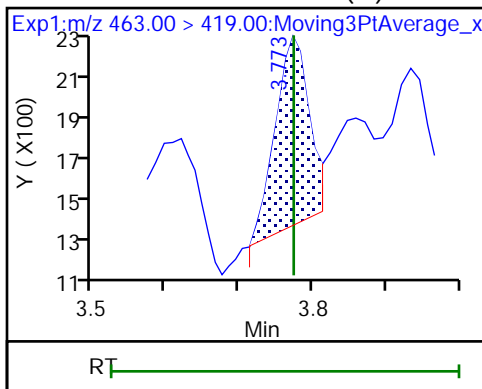
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

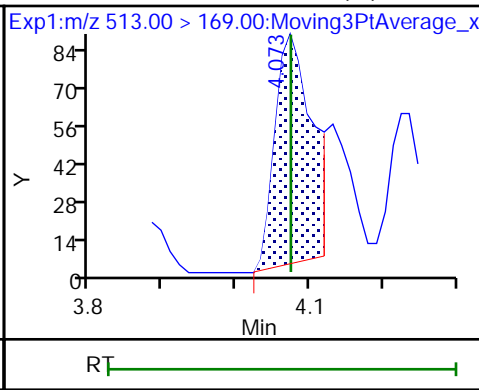
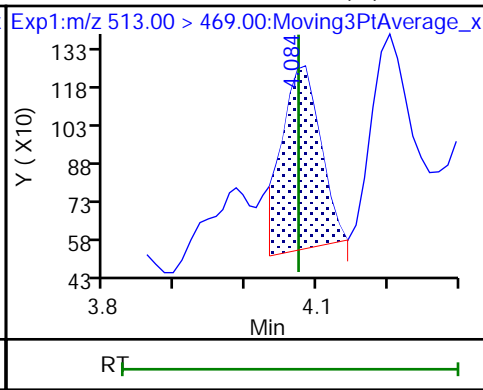
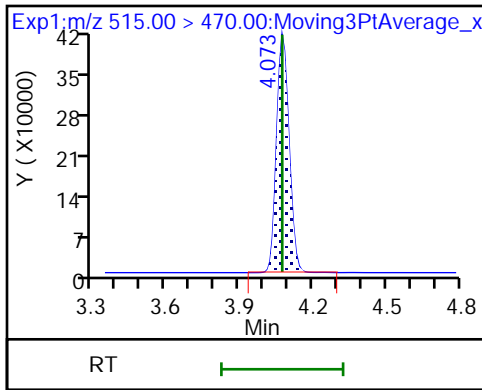
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

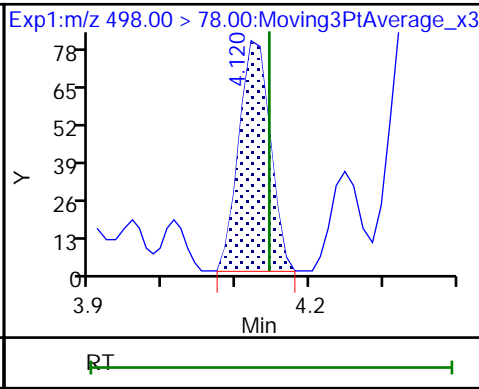
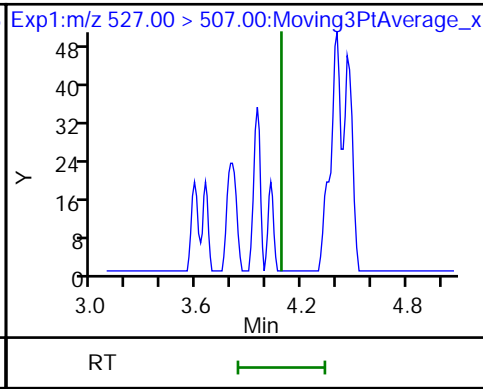
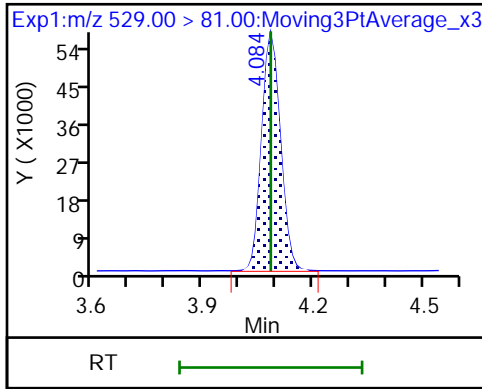
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

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

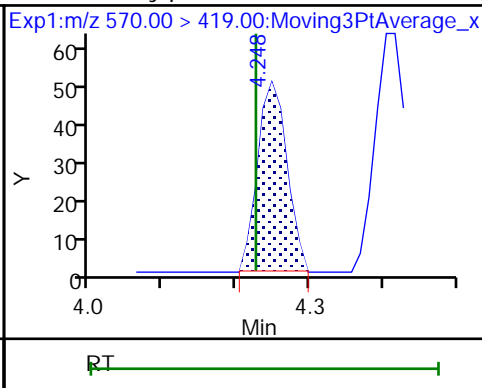
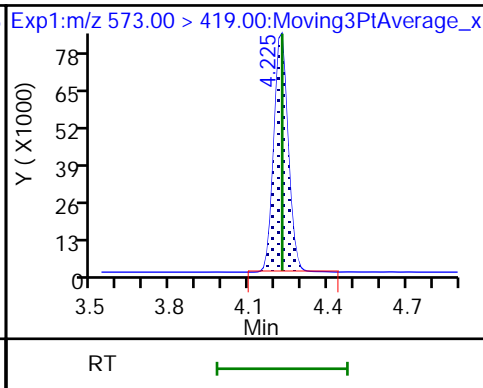
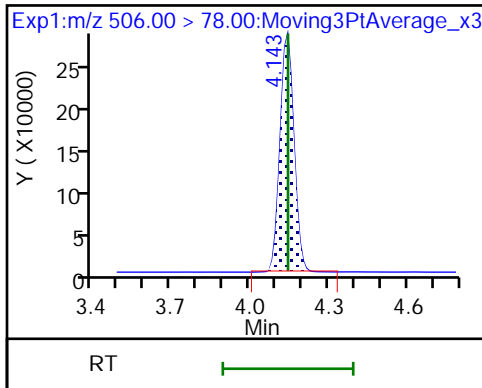
17 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

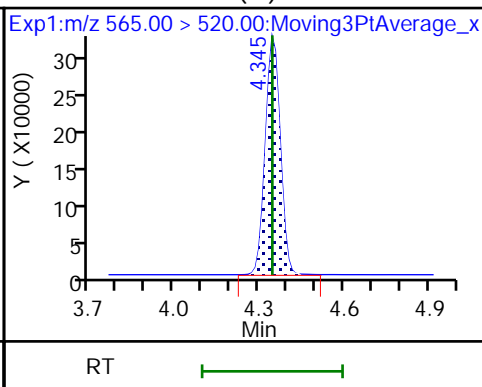
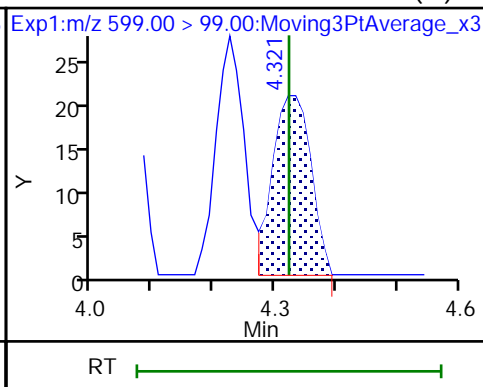
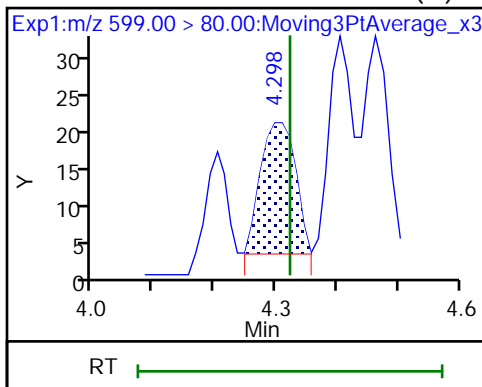
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

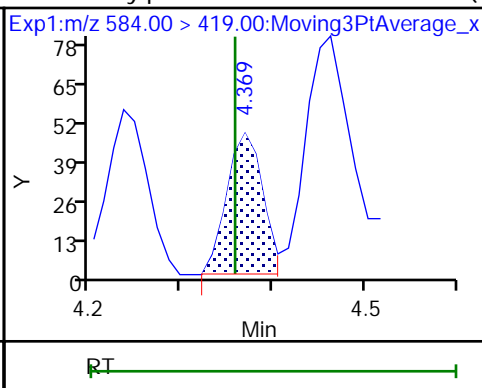
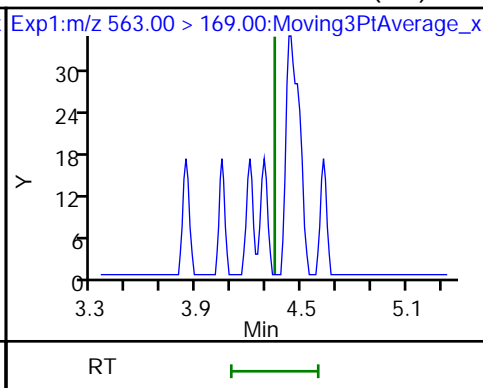
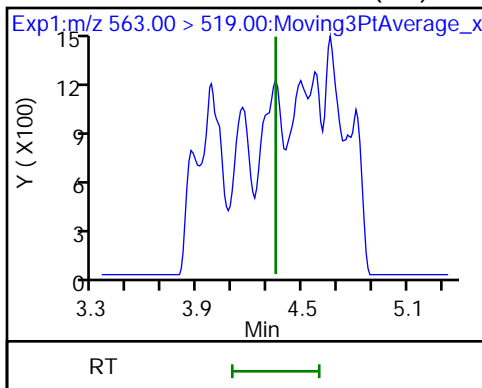
D 30 13C2 PFUnA (M)



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

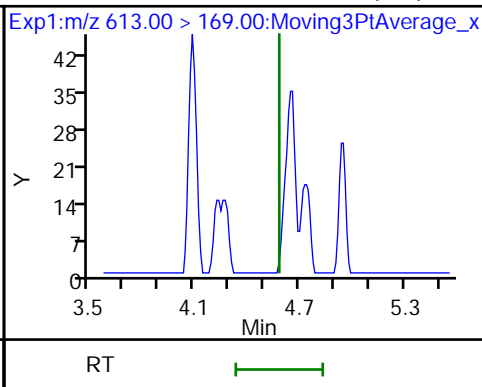
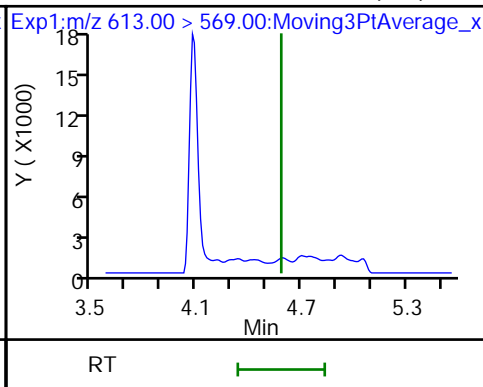
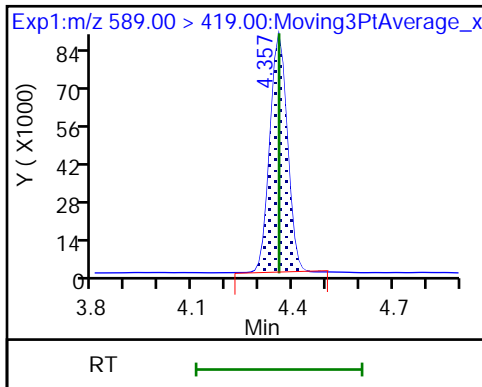
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

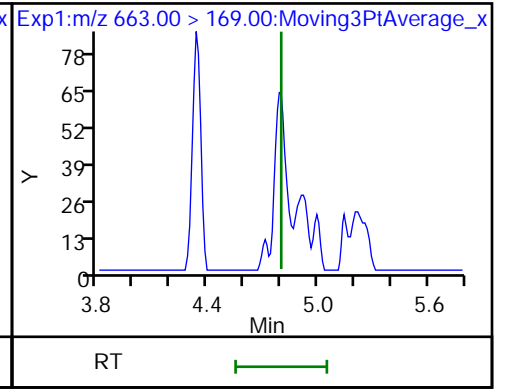
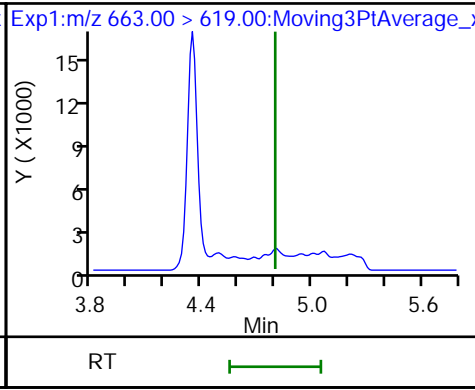
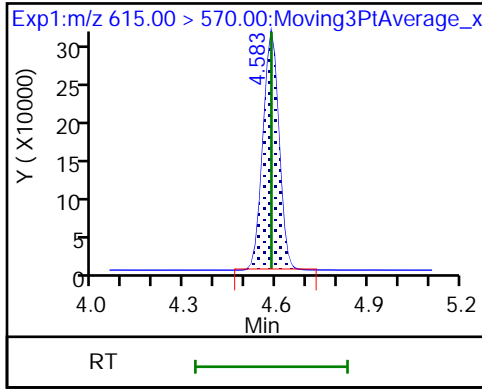
37 Perfluorododecanoic acid (ND)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (ND)

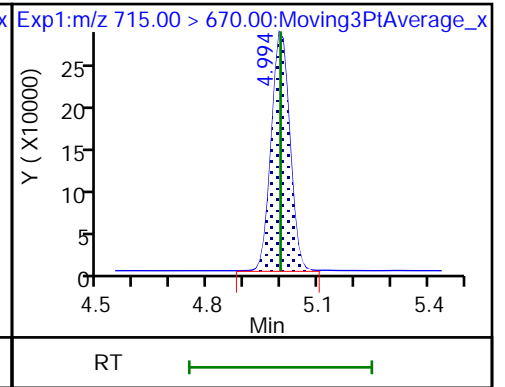
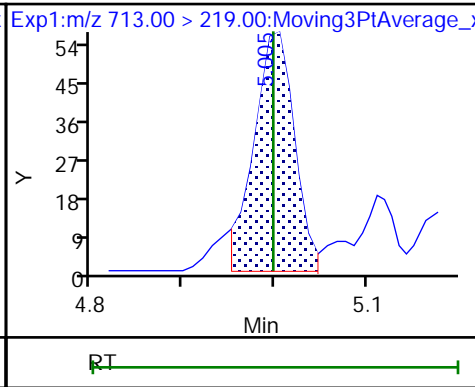
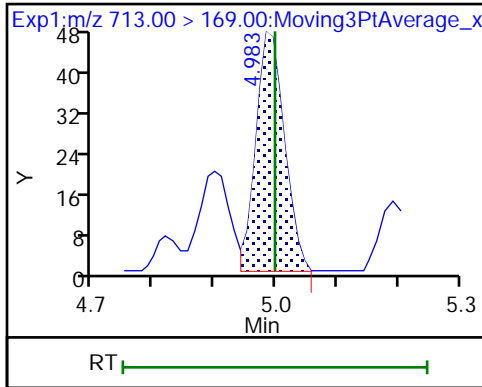
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

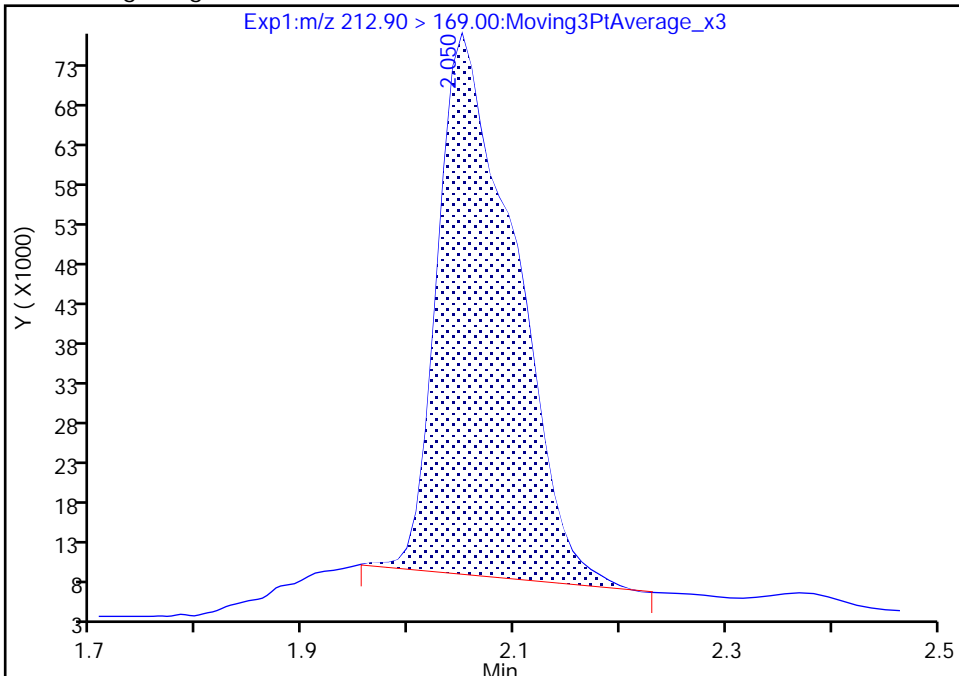
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

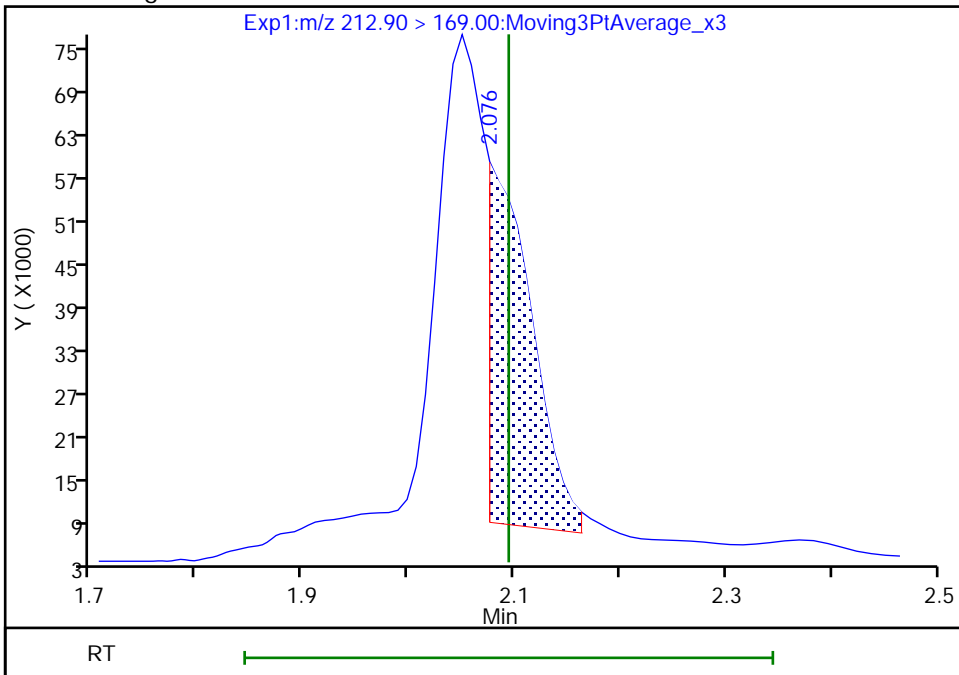
RT: 2.05
Area: 344443
Amount: 0.212827
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 135992
Amount: 0.057766
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 25-Jan-2023 18:14:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins Burlington

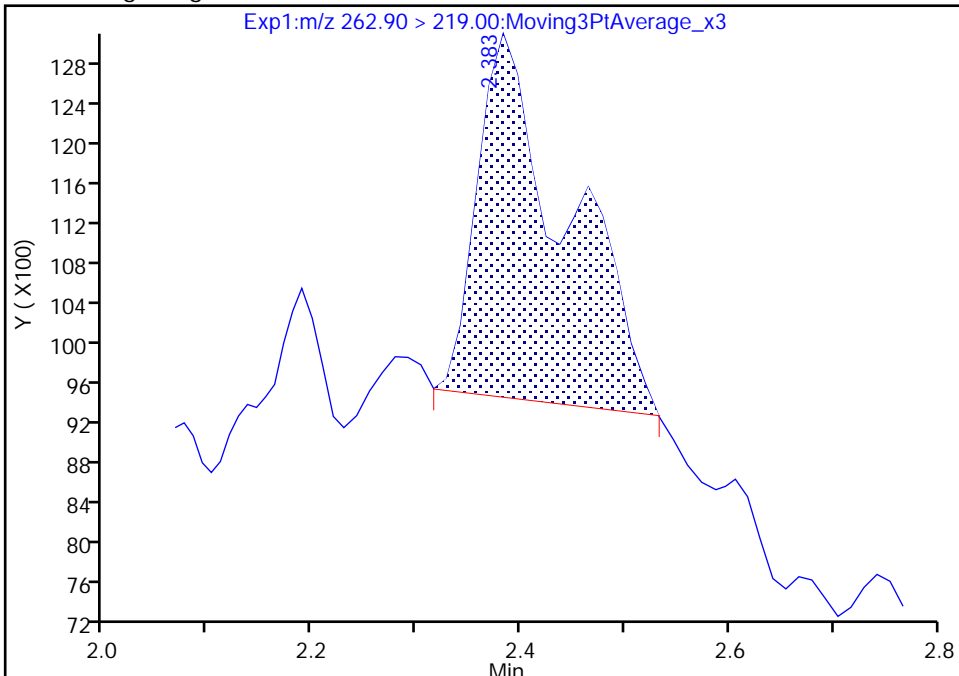
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

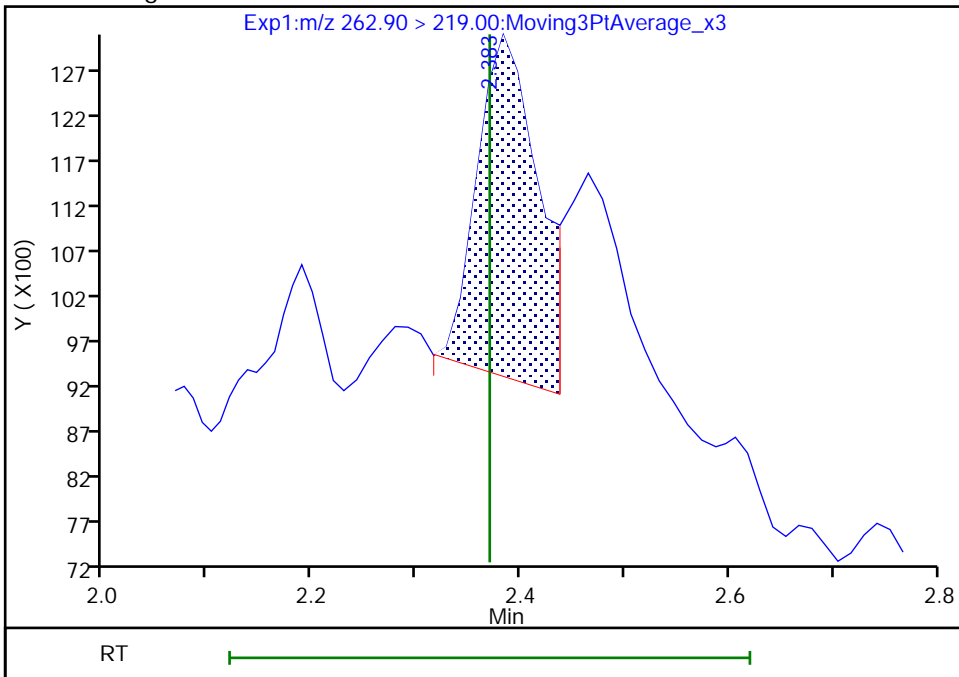
RT: 2.38
Area: 21876
Amount: 0.017202
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 15282
Amount: 0.012017
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:11:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

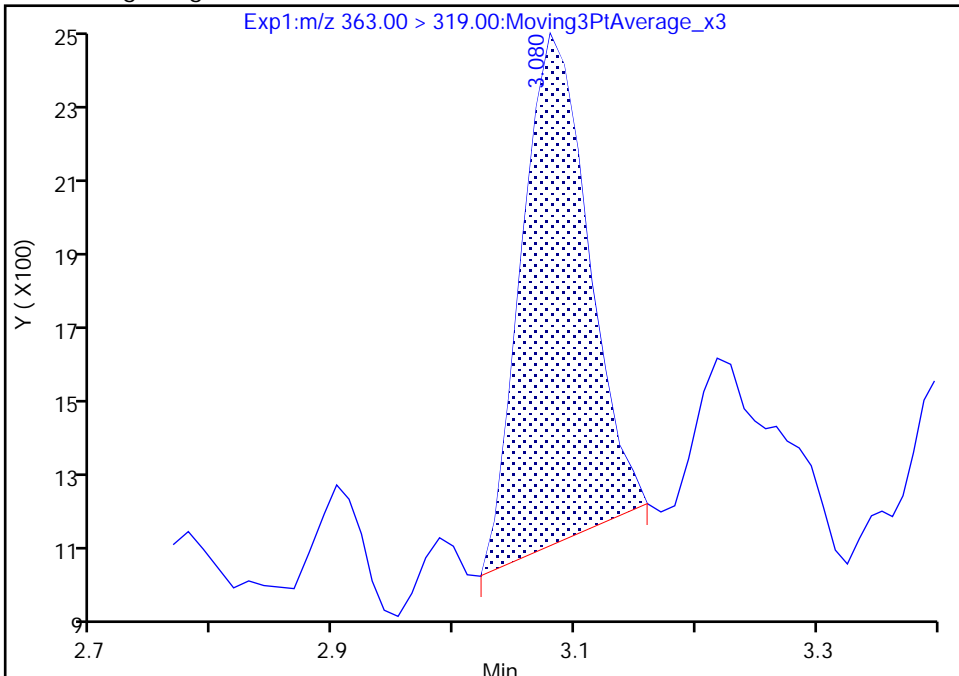
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

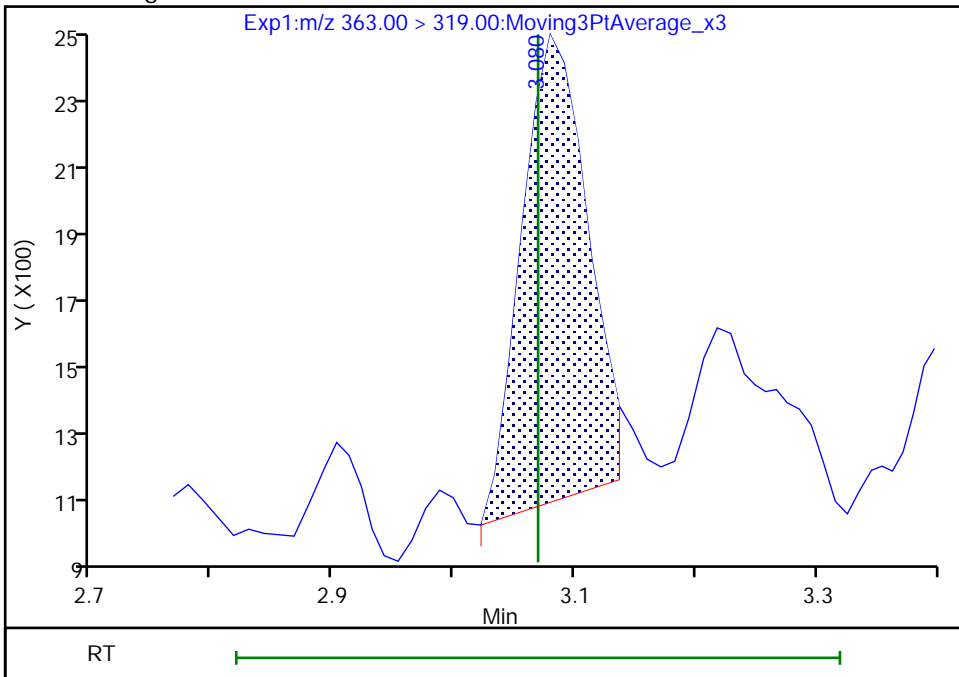
RT: 3.08
Area: 5097
Amount: 0.004078
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 5060
Amount: 0.004048
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:12:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

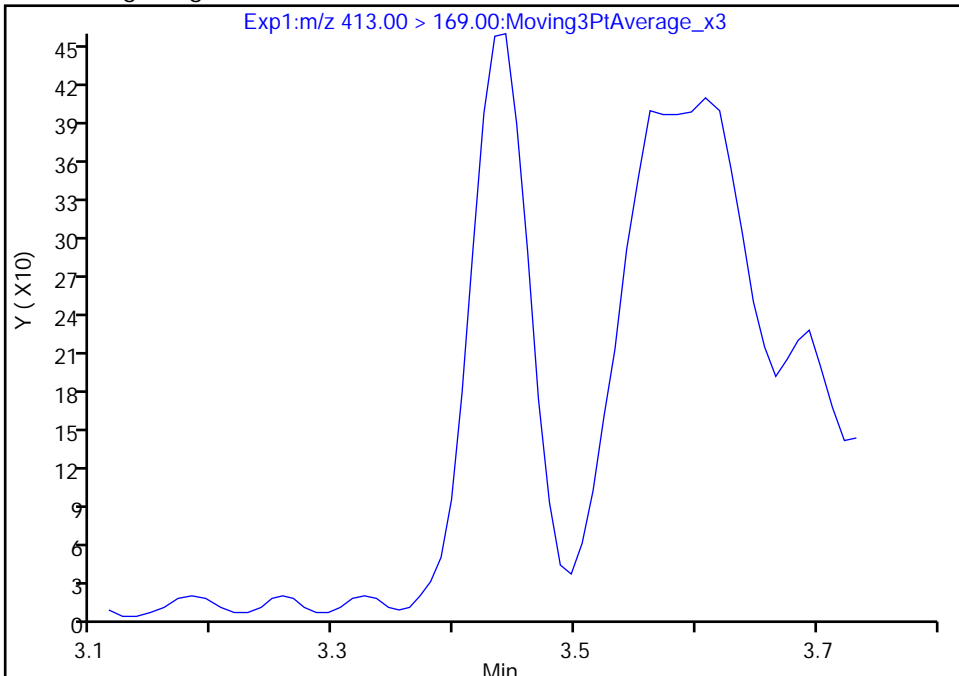
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

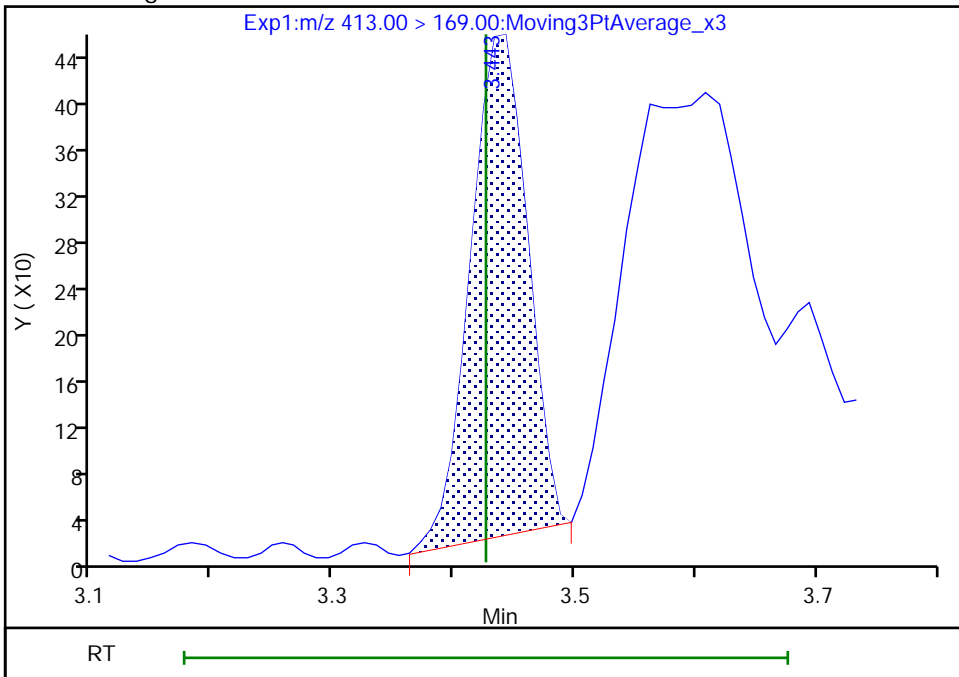
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 1420
Amount: 0.005259
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:13:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

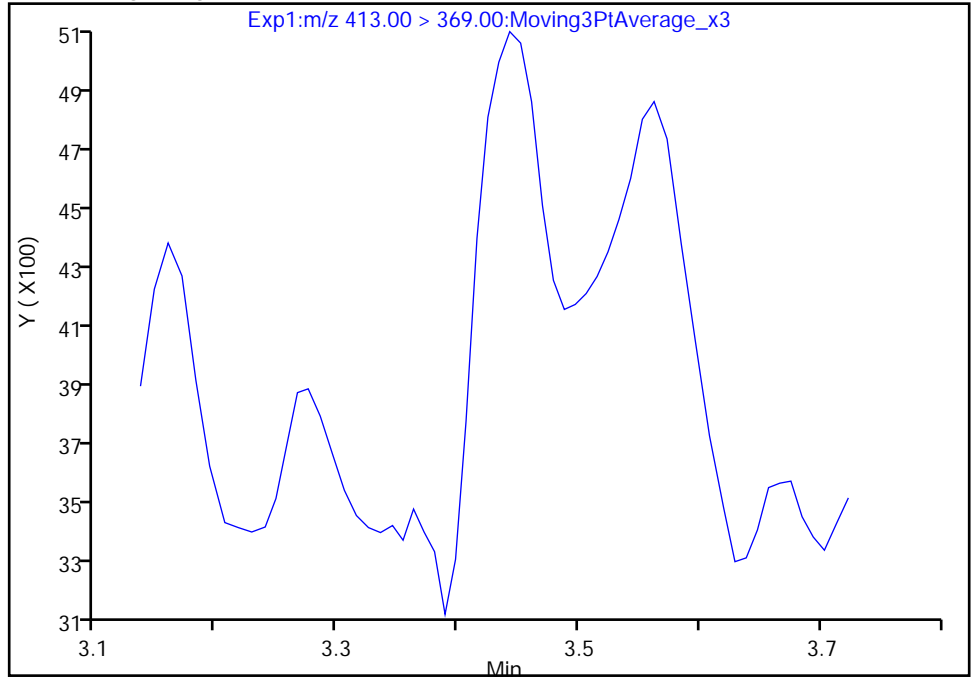
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

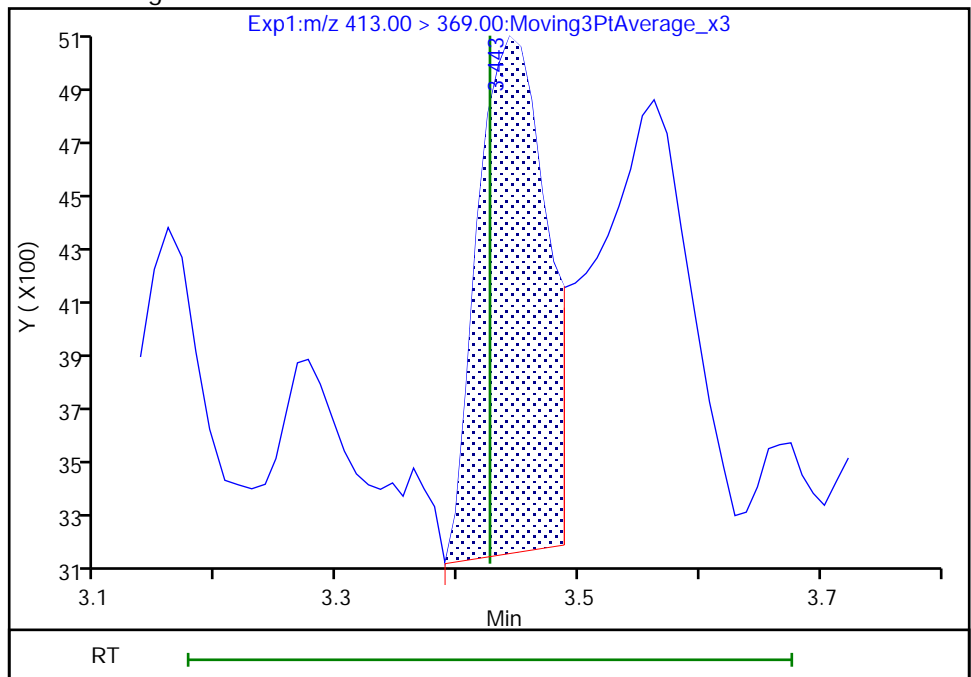
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 7590
Amount: 0.005259
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:13:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

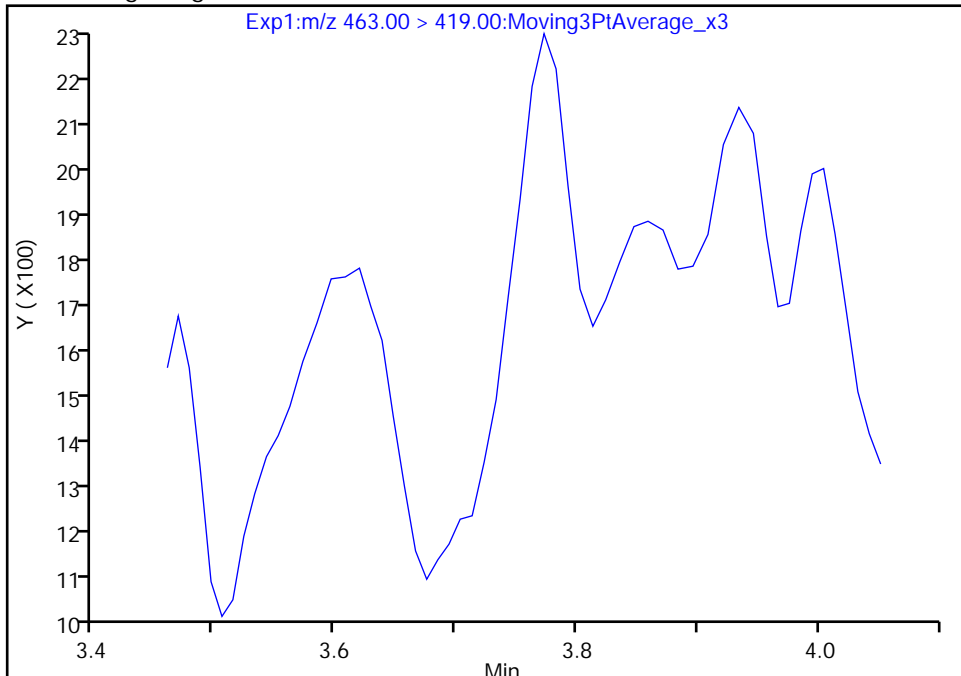
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

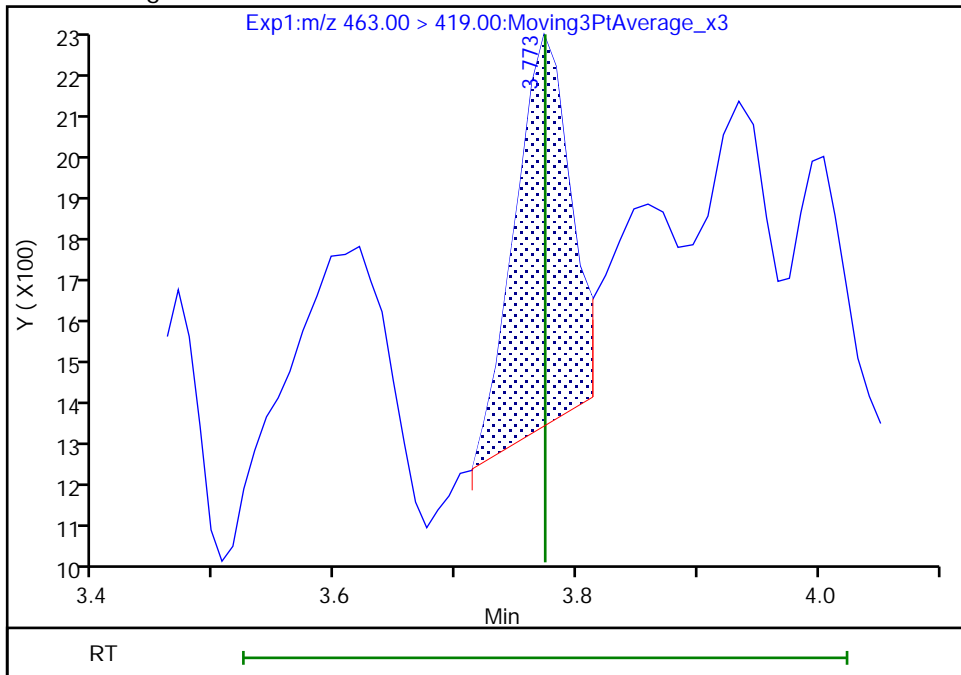
Not Detected
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 2832
Amount: 0.002281
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:14:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

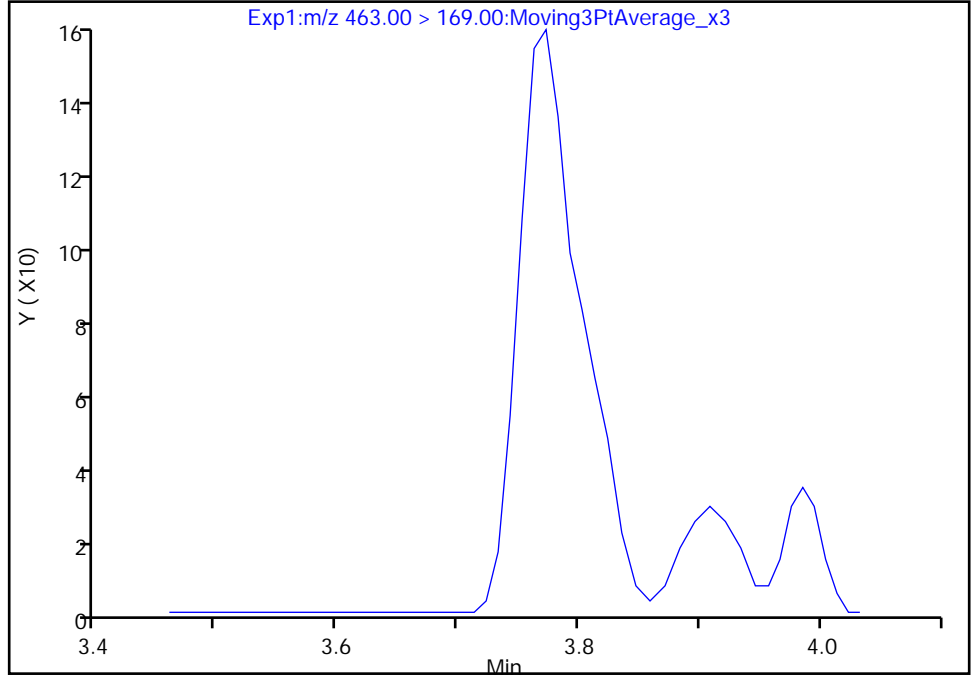
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

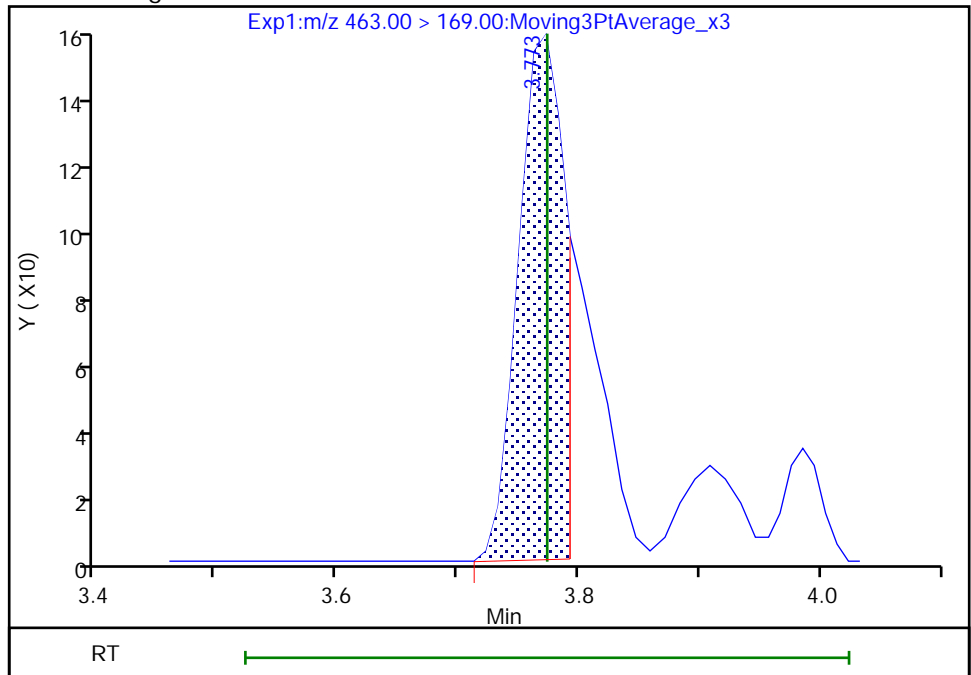
Not Detected
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 388
Amount: 0.002281
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:14:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

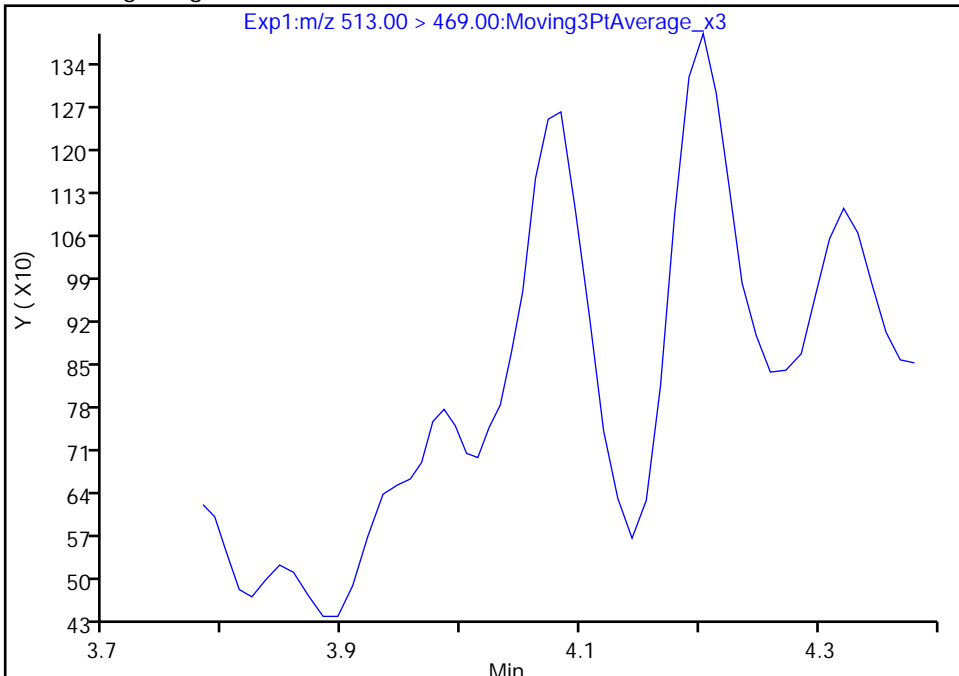
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

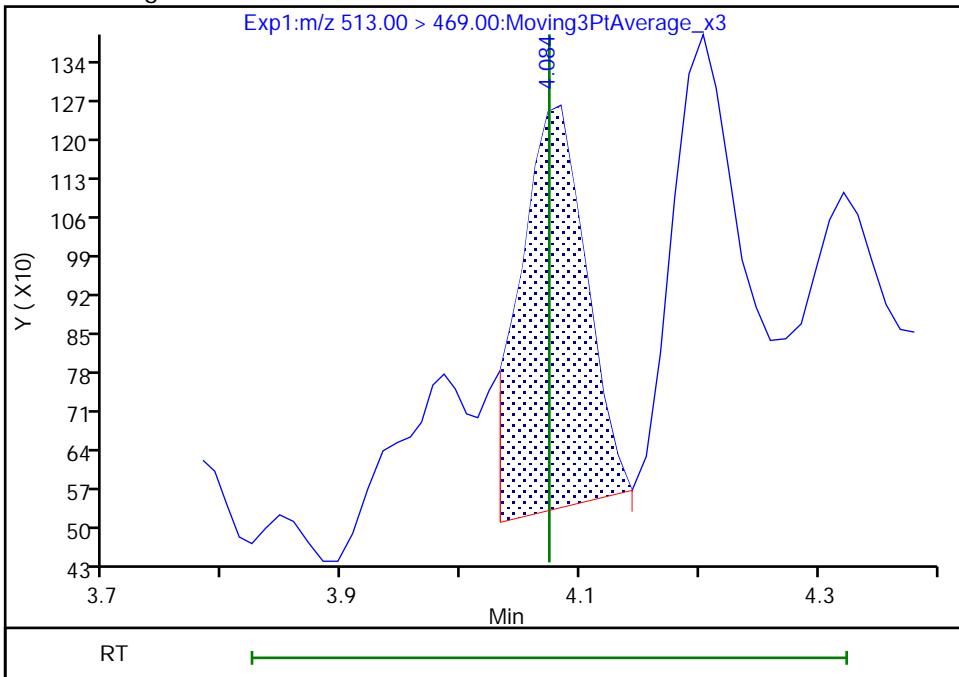
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 2783
Amount: 0.002212
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:14:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

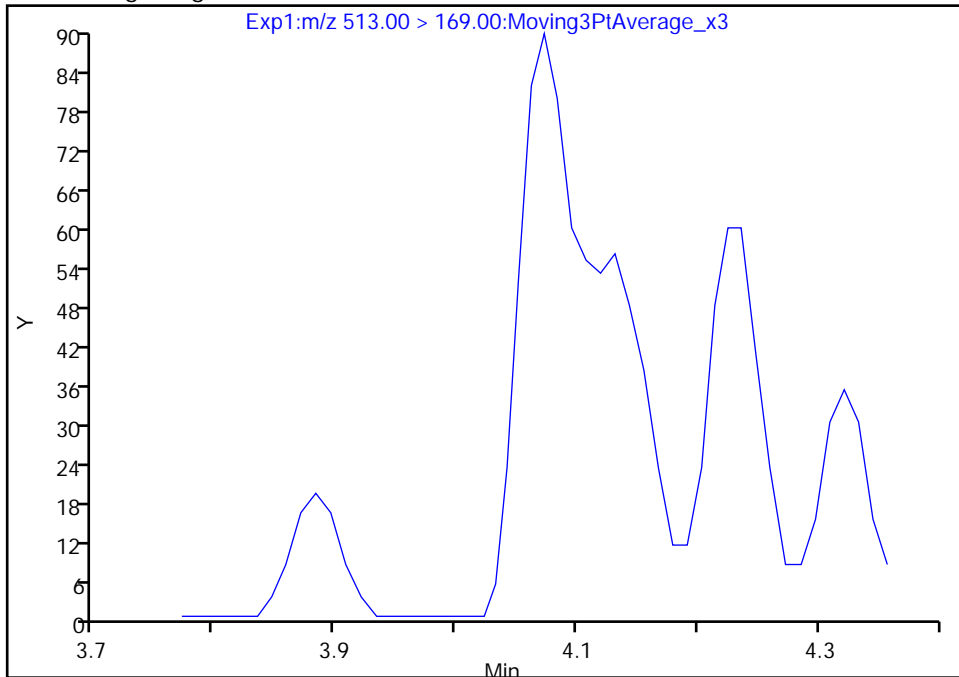
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

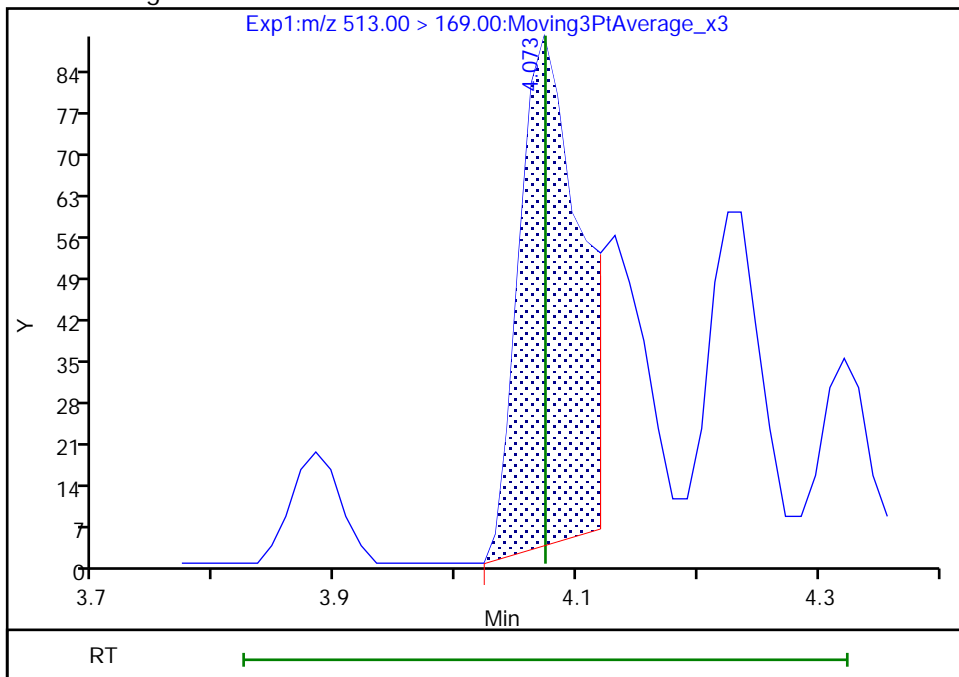
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 296
Amount: 0.002212
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:14:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

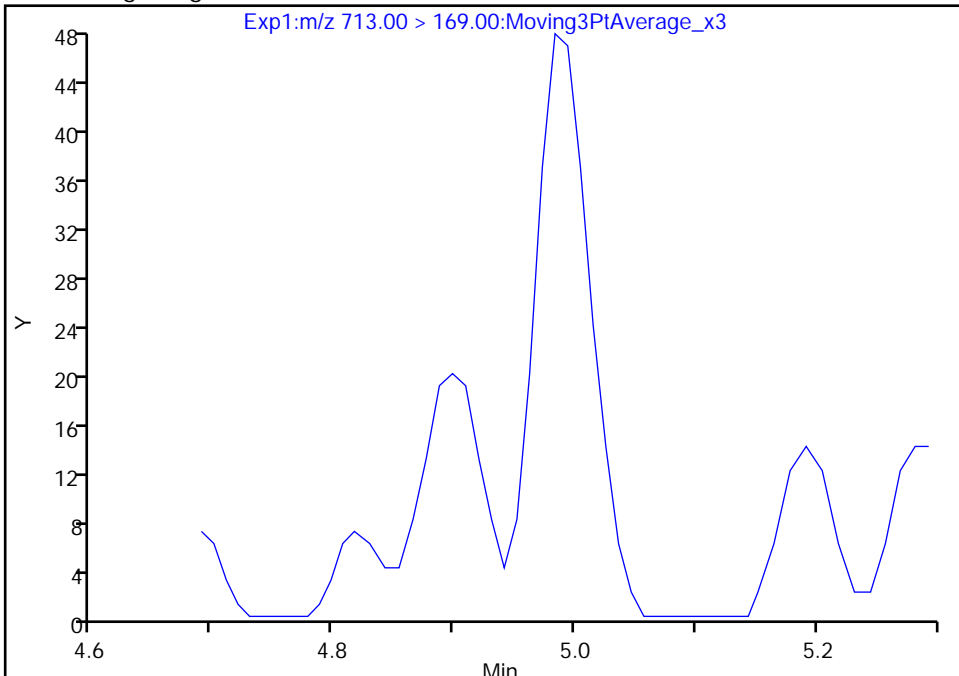
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

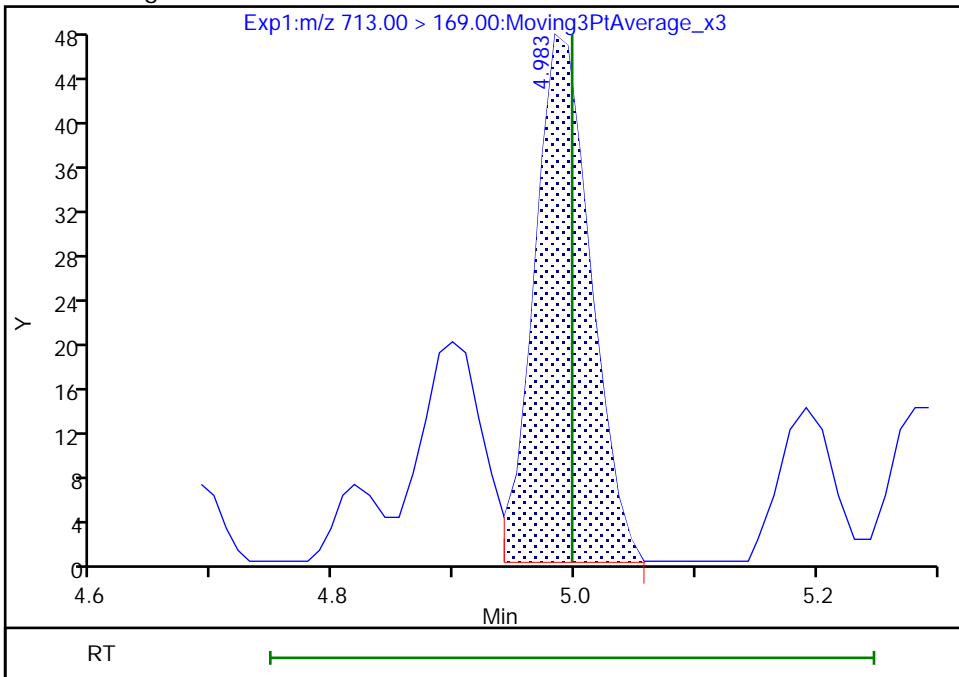
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 154
Amount: 0.001575
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:15:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

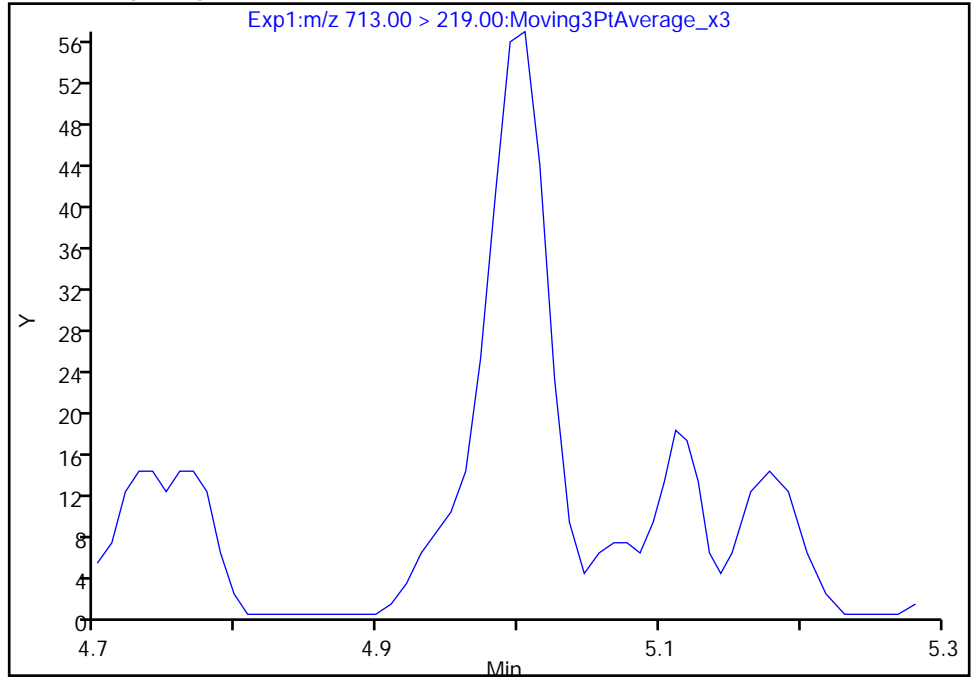
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

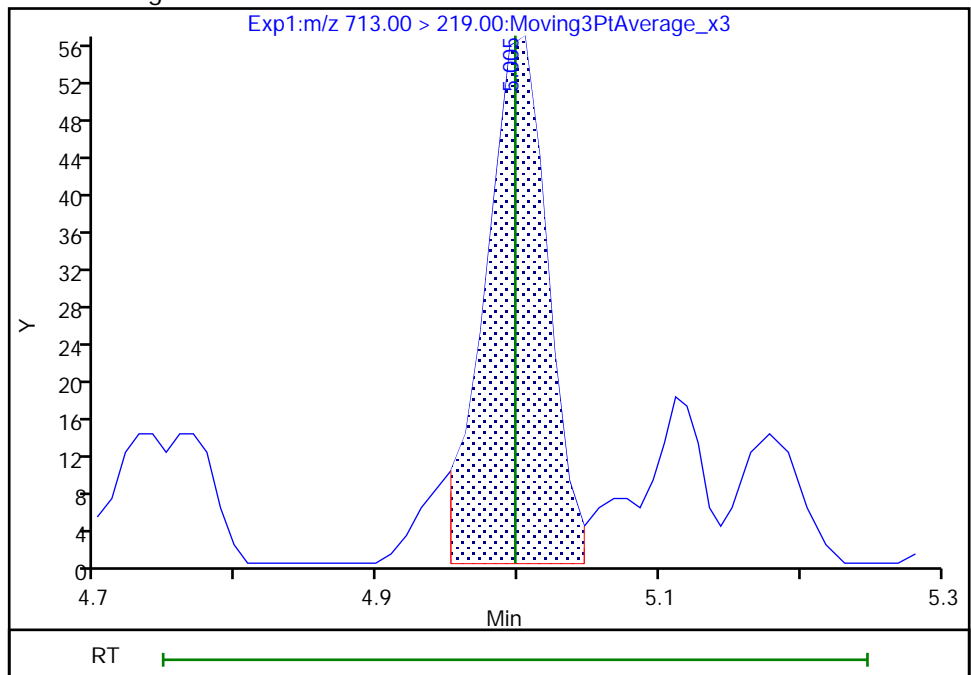
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 174
Amount: 0.001575
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:15:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

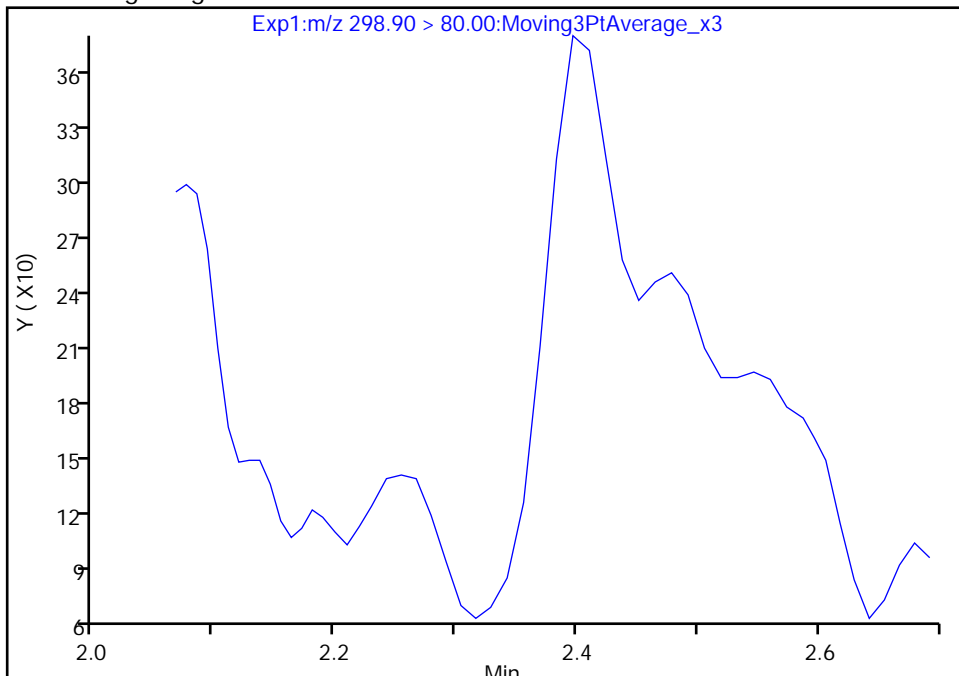
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

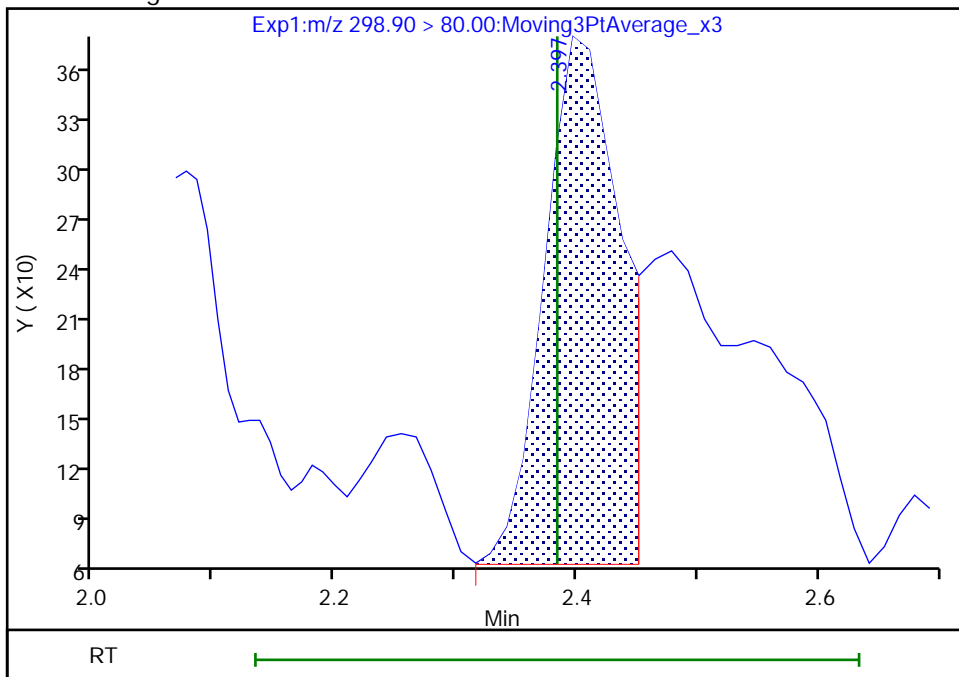
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1346
Amount: 0.001162
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:12:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 195 of 950

Eurofins Burlington

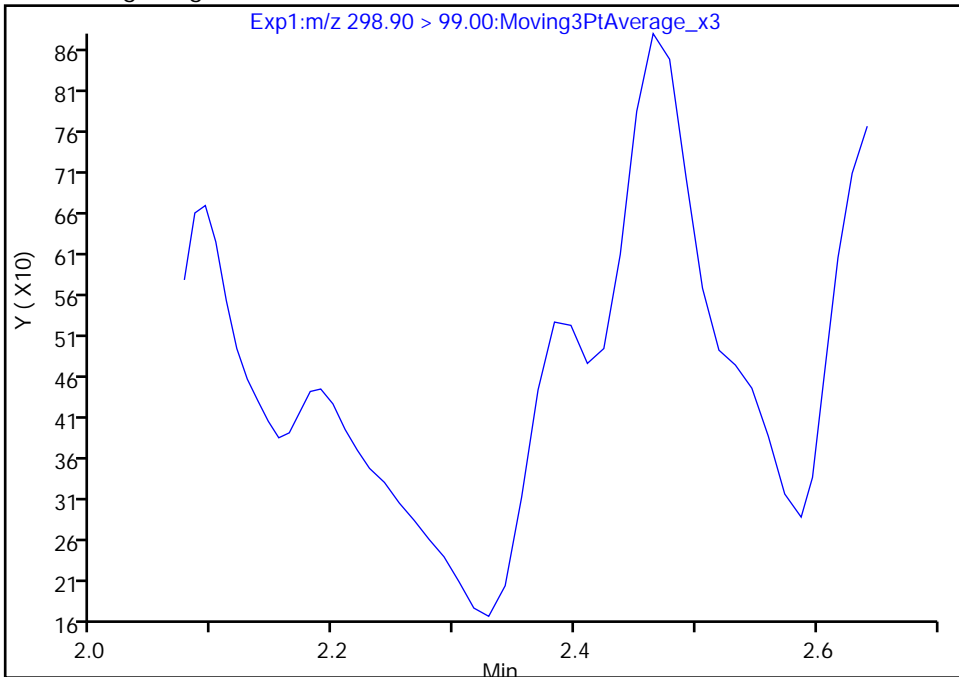
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Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

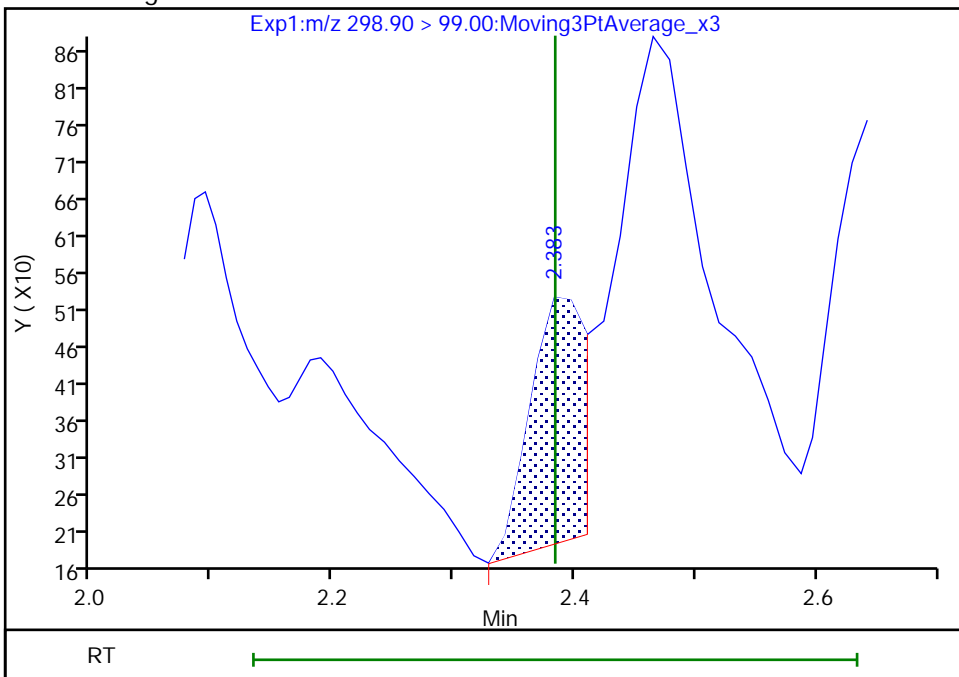
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.38
Area: 982
Amount: 0.001162
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:12:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

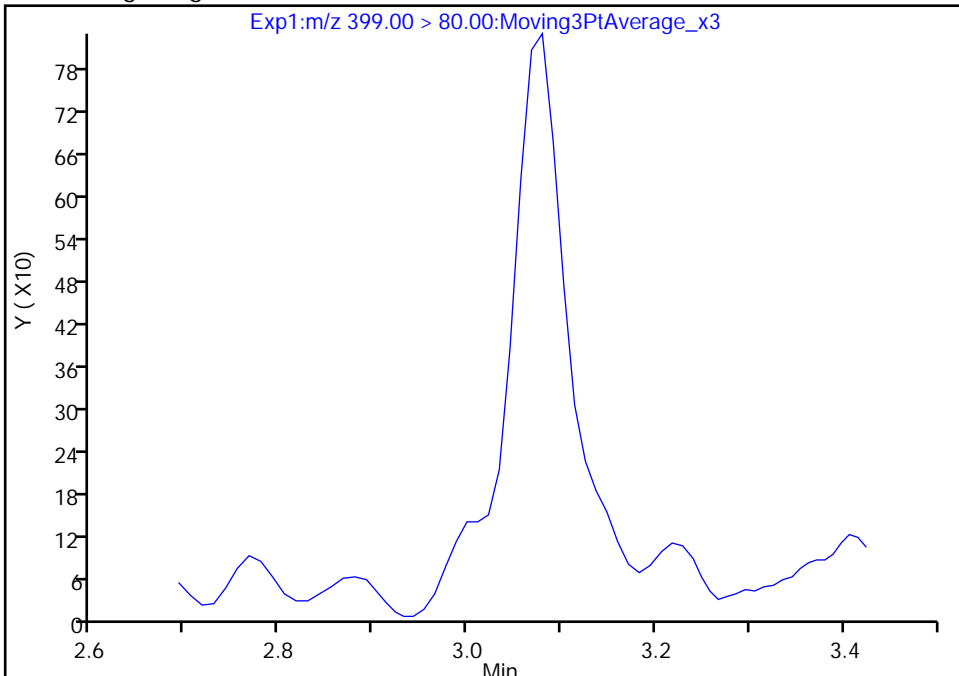
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Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

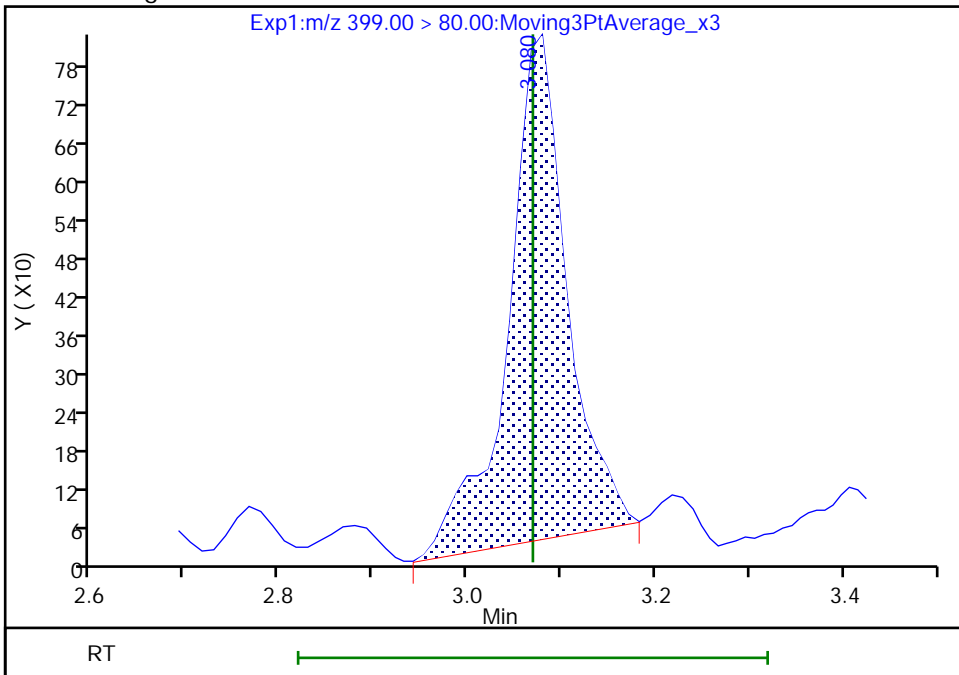
Processing Integration Results

Not Detected
Expected RT: 3.07



Manual Integration Results

RT: 3.08
Area: 3448
Amount: 0.003814
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:12:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

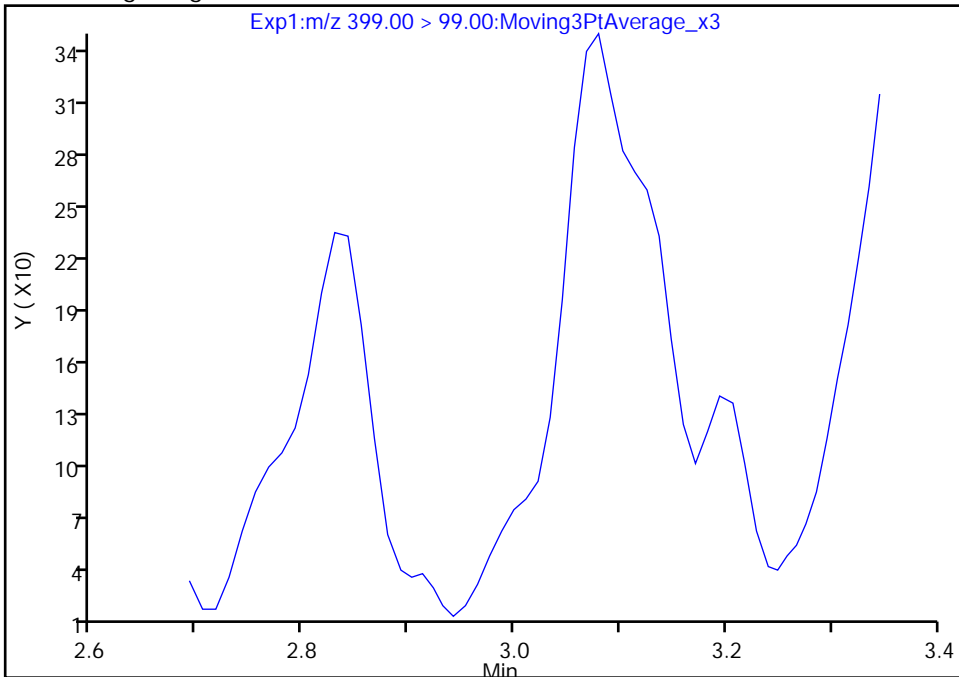
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Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

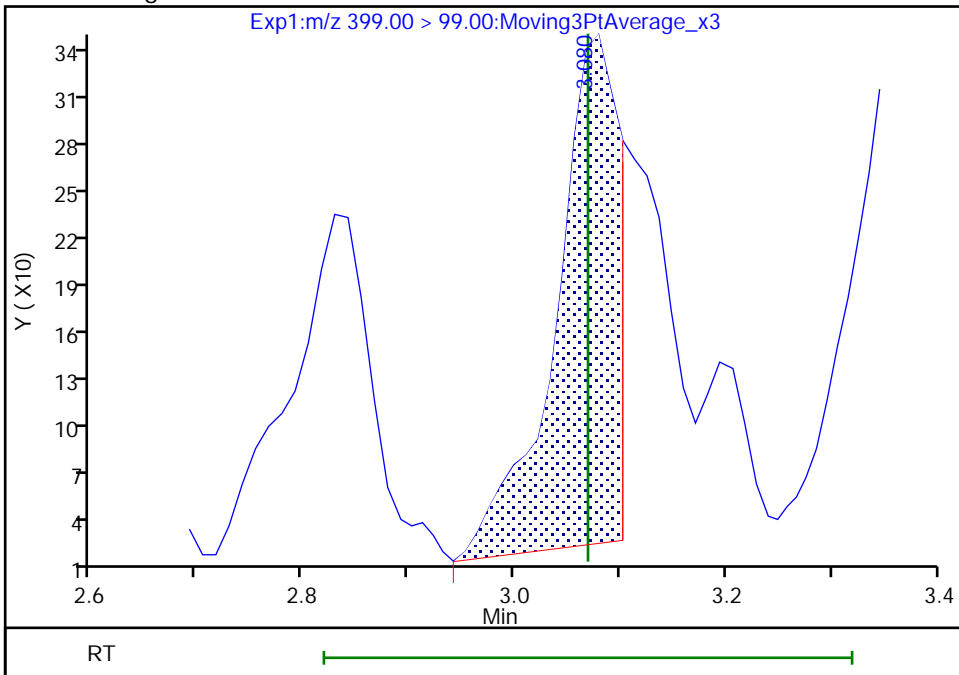
Not Detected
Expected RT: 3.07

Processing Integration Results



RT: 3.08
Area: 1266
Amount: 0.003814
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:12:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

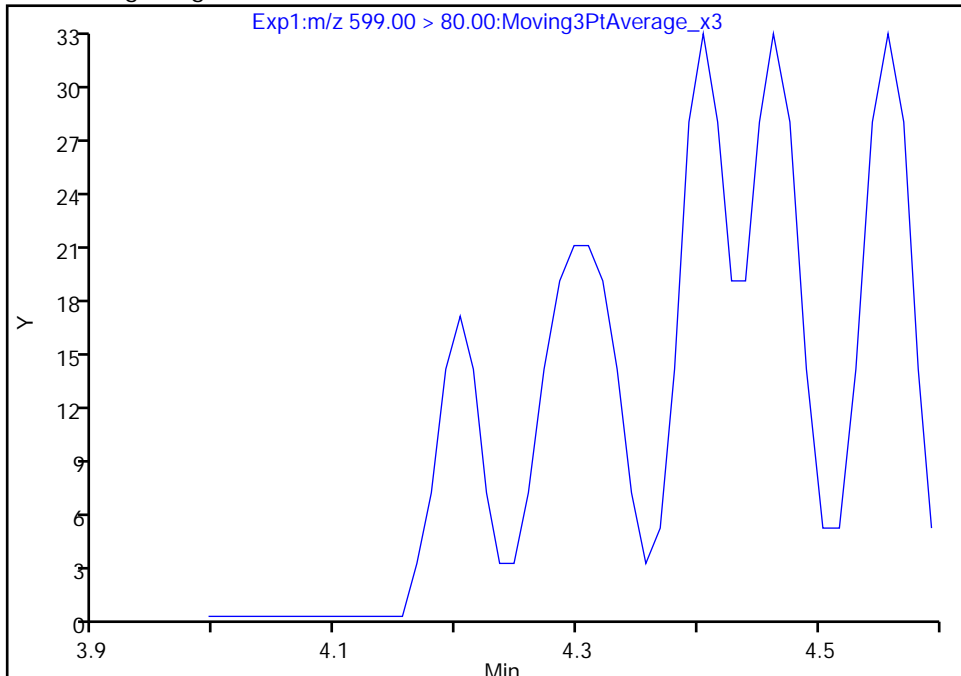
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 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

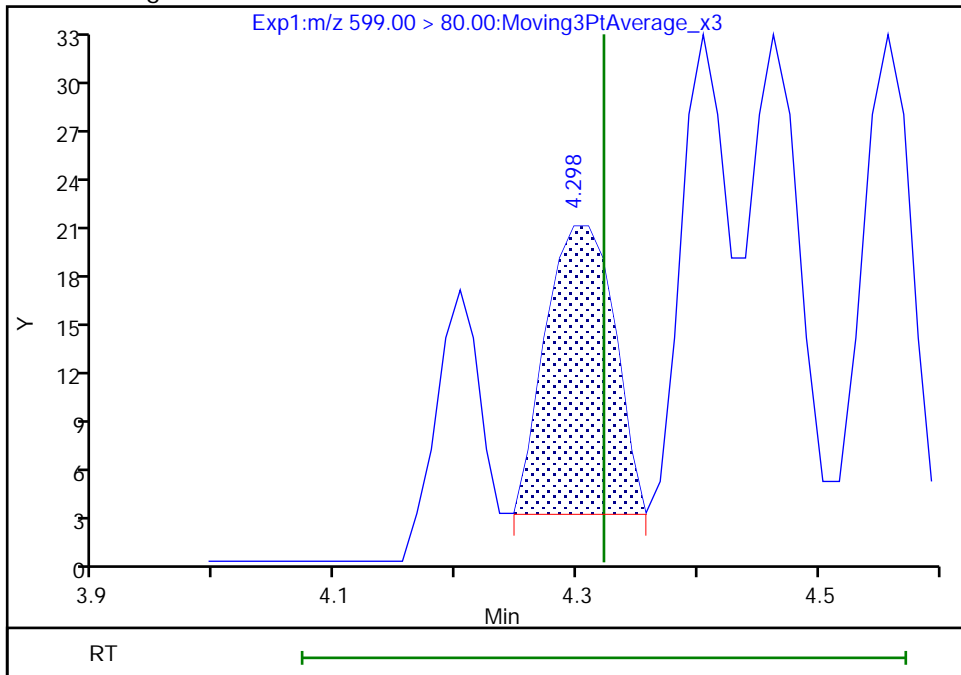
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.30
Area: 71
Amount: 0.000171
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:14:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

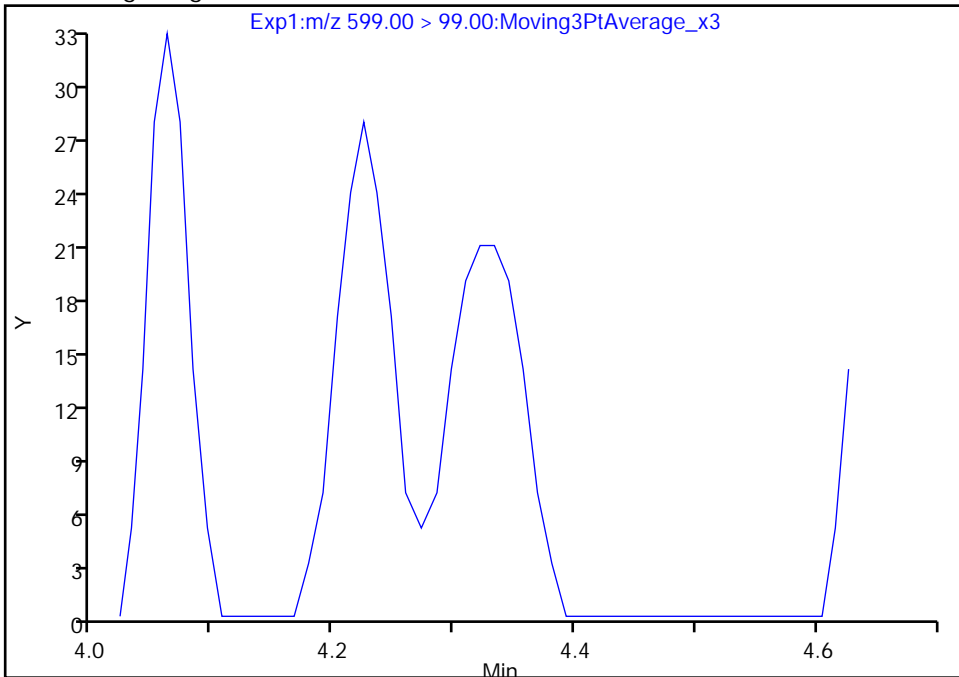
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

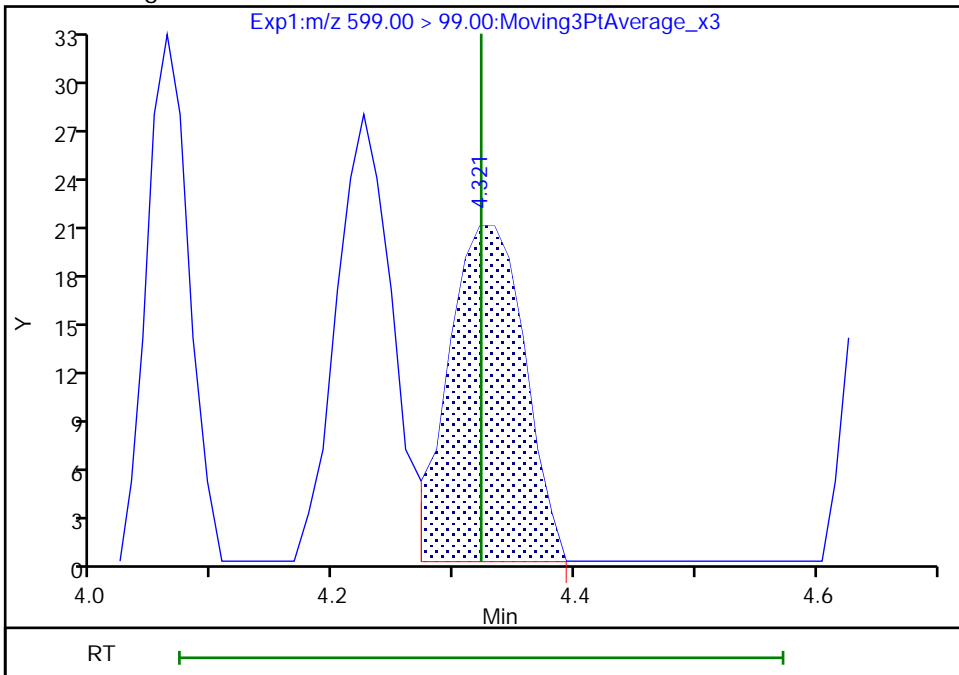
Not Detected
Expected RT: 4.32

Processing Integration Results



RT: 4.32
Area: 91
Amount: 0.000171
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:15:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 200 of 950

Eurofins Burlington

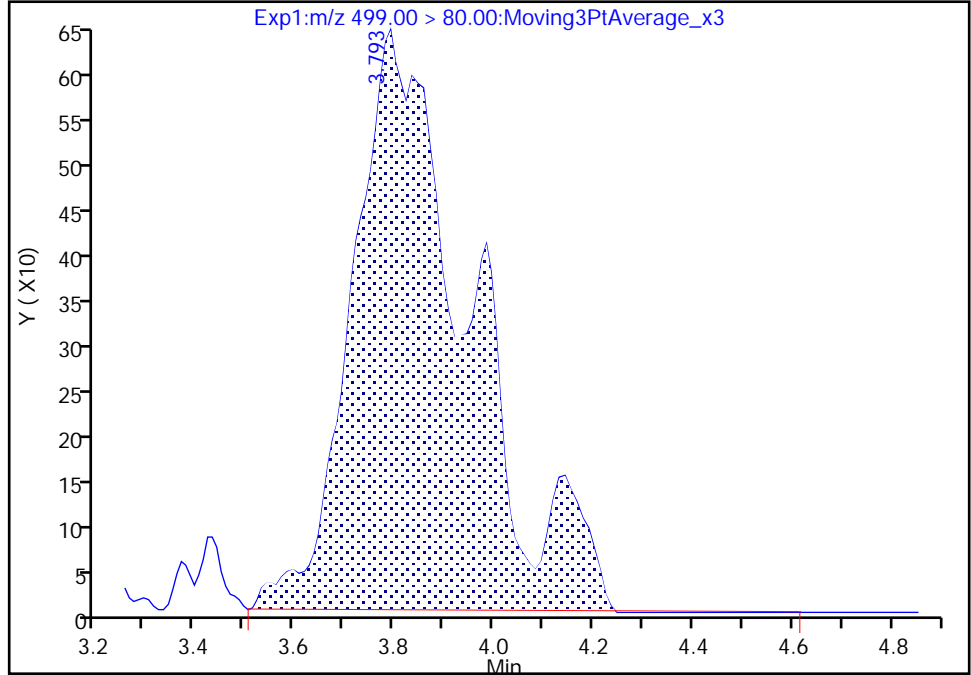
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 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

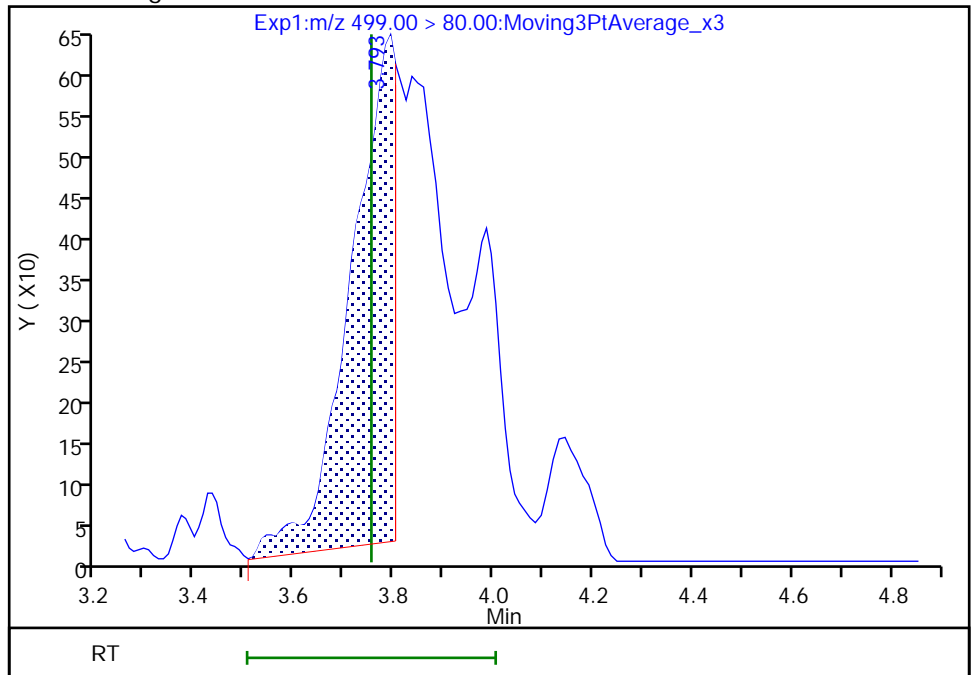
RT: 3.79
Area: 10485
Amount: 0.015635
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 3678
Amount: 0.005485
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:13:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

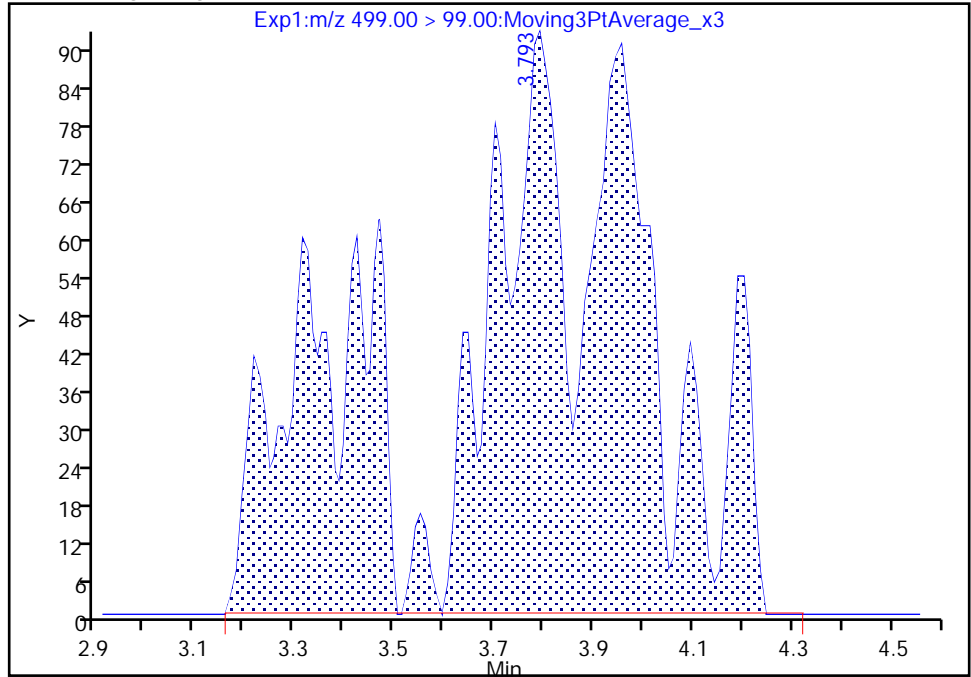
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 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

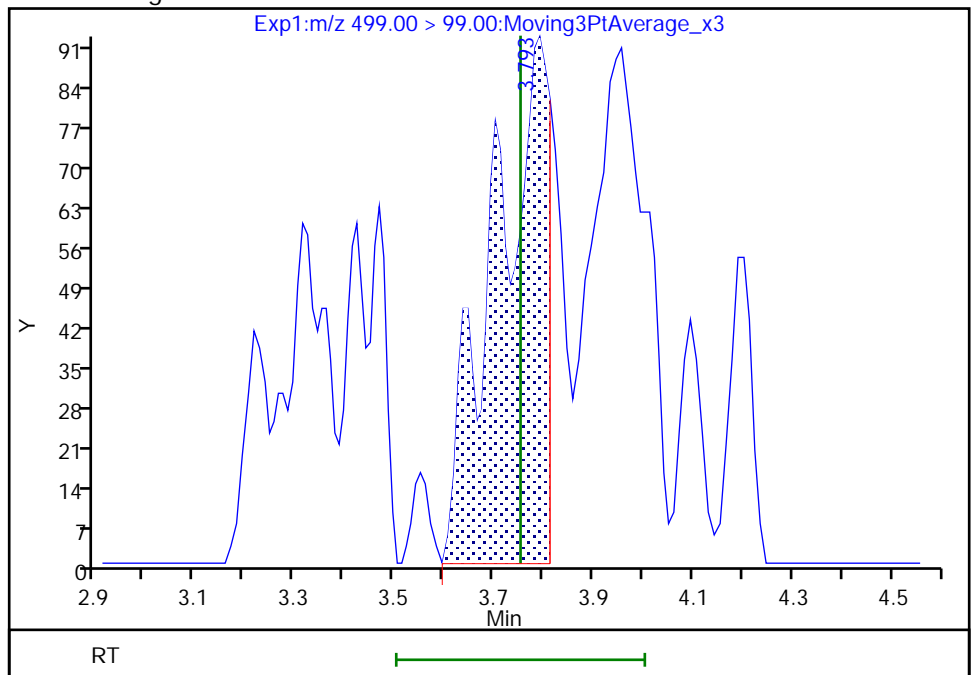
RT: 3.79
Area: 2597
Amount: 0.015635
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 684
Amount: 0.005485
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:14:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

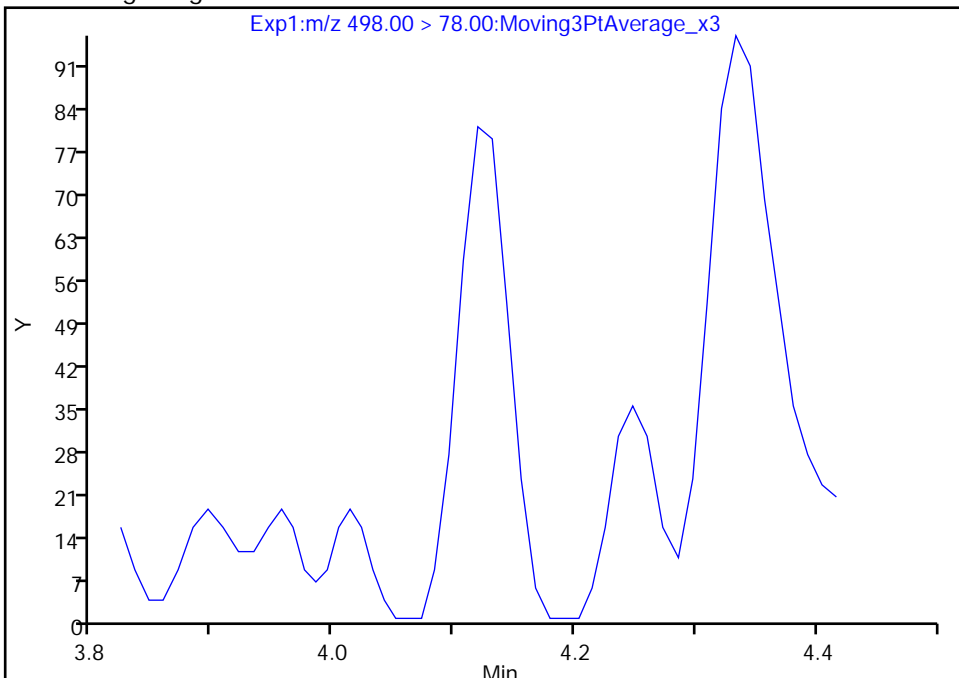
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

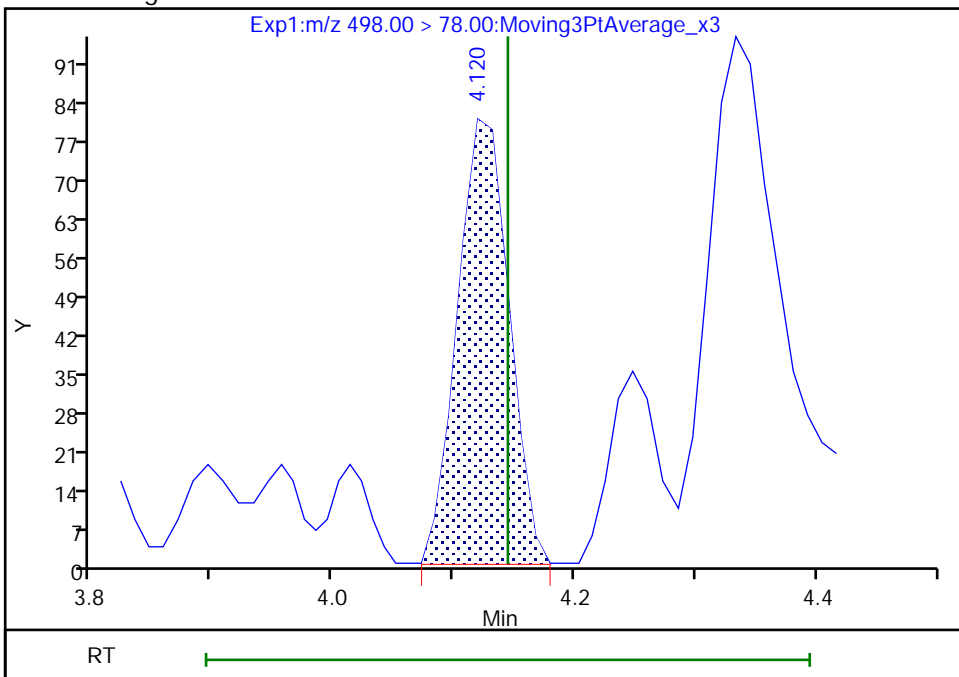
Signal: 1

Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.12
Area: 239
Amount: 0.000285
Amount Units: ng/ml

Reviewer: khanphomeea, 24-Jan-2023 14:14:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

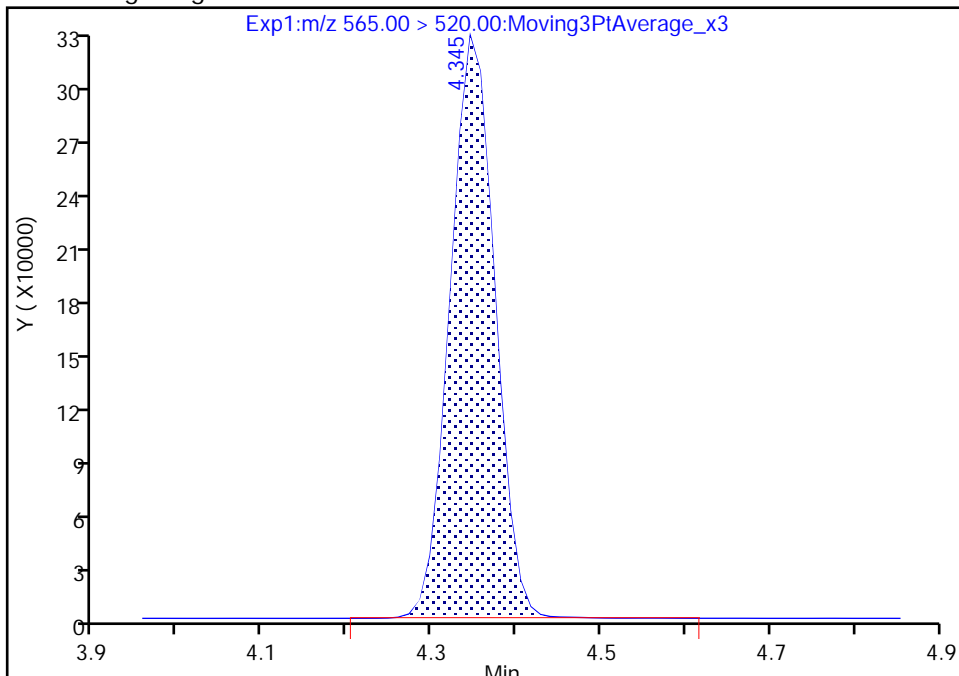
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 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

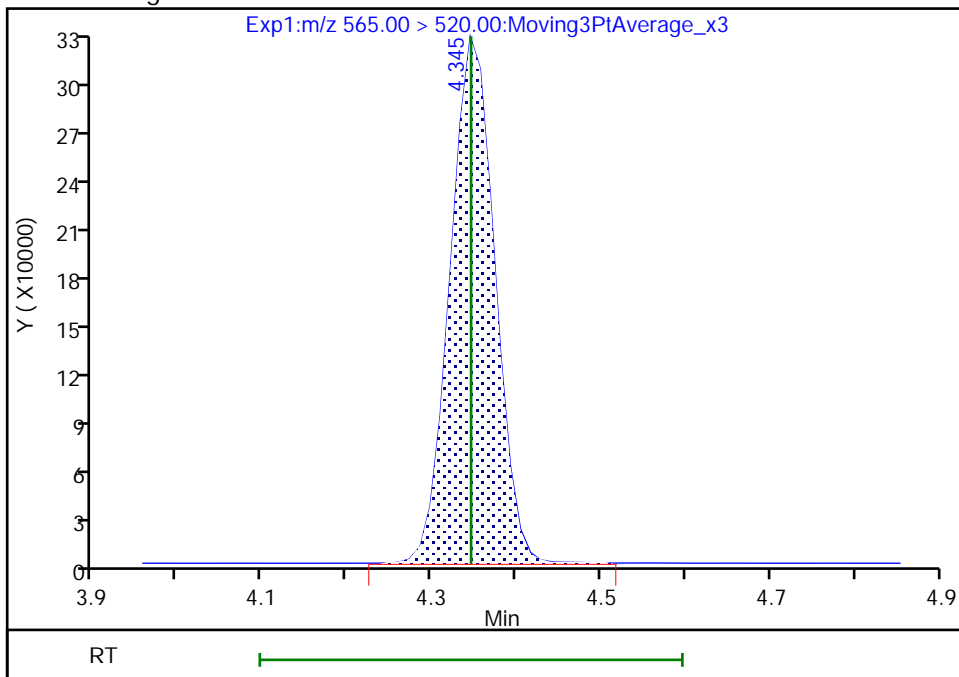
RT: 4.35
Area: 1185377
Amount: 0.942129
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1183989
Amount: 0.941025
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:11:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

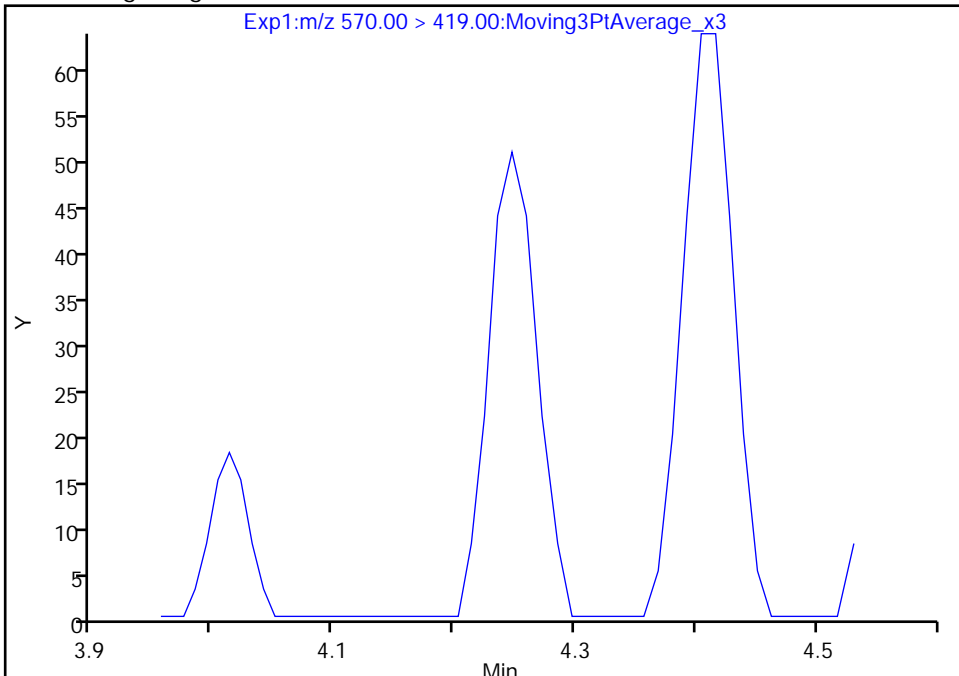
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 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

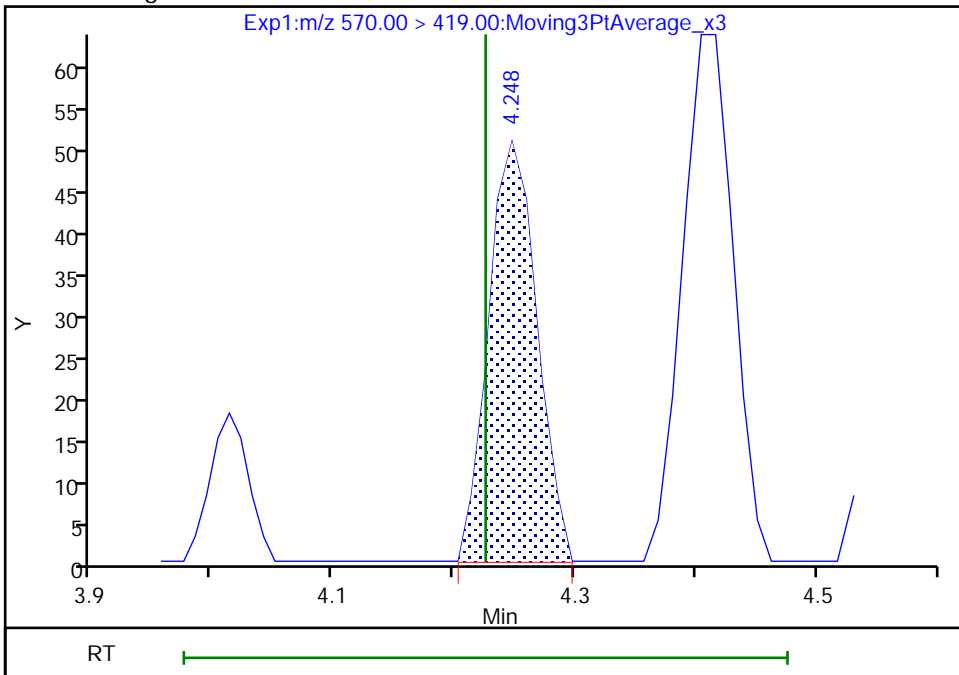
Not Detected
Expected RT: 4.23

Processing Integration Results



Manual Integration Results

RT: 4.25
Area: 142
Amount: 0.000617
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 14:14:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

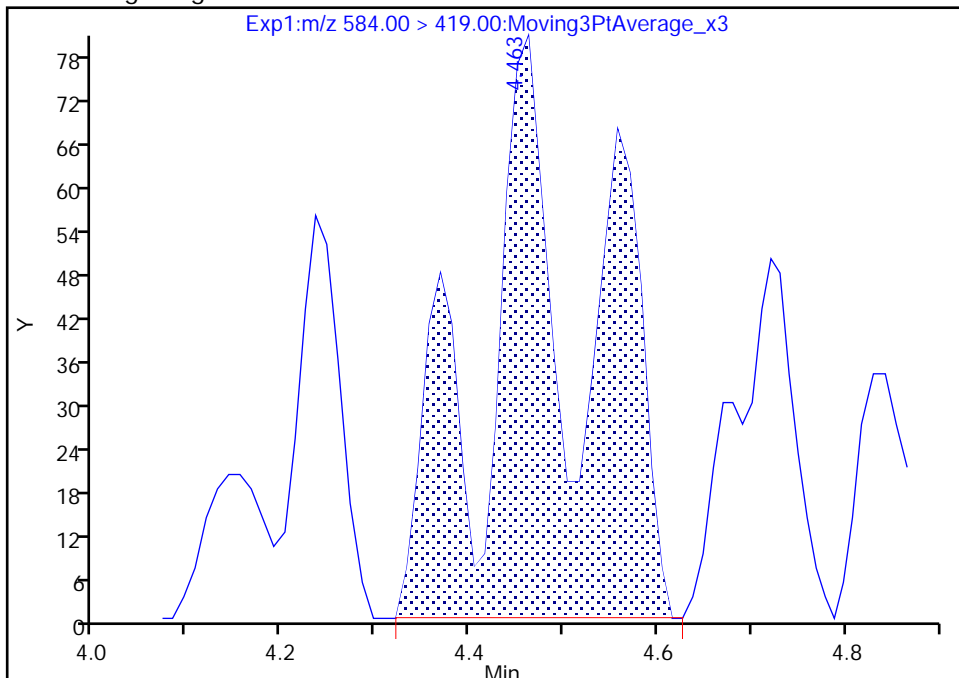
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 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

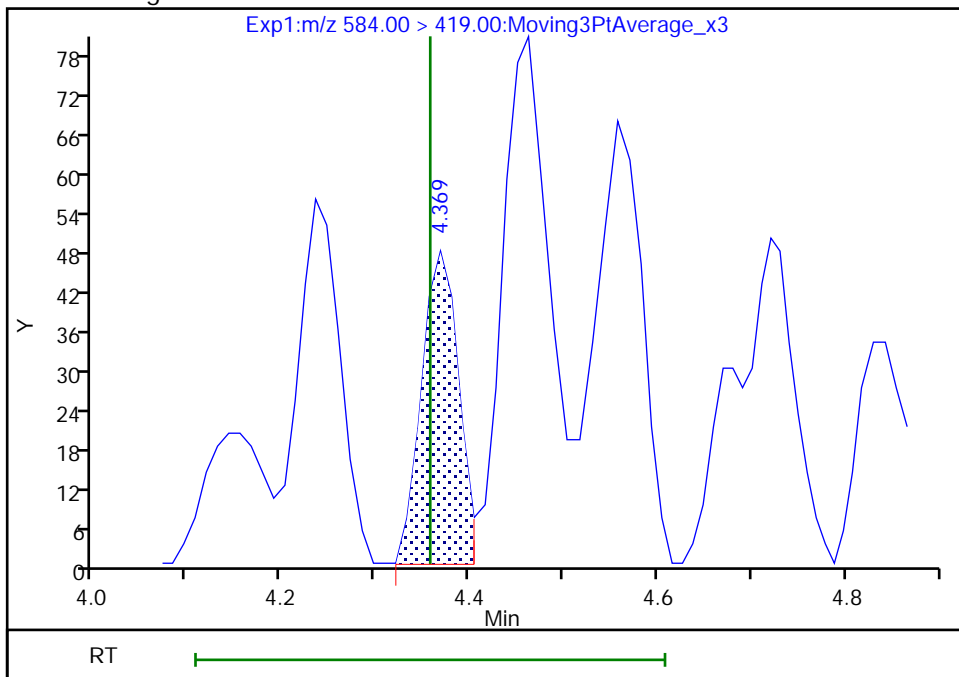
RT: 4.46
Area: 641
Amount: 0.002675
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 130
Amount: 0.000543
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:15:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

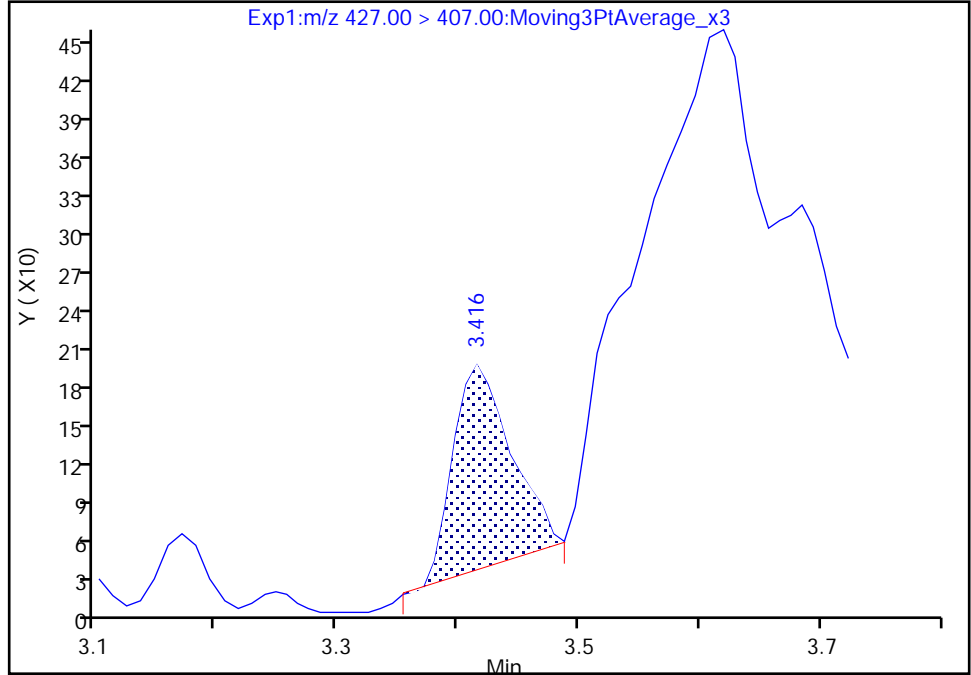
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B22.d
Injection Date: 23-Jan-2023 22:23:56 Instrument ID: LC812
Lims ID: 460-273105-A-5-A Lab Sample ID: 200-273105-5
Client ID: FB-01172023P
Operator ID: LC812user ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 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

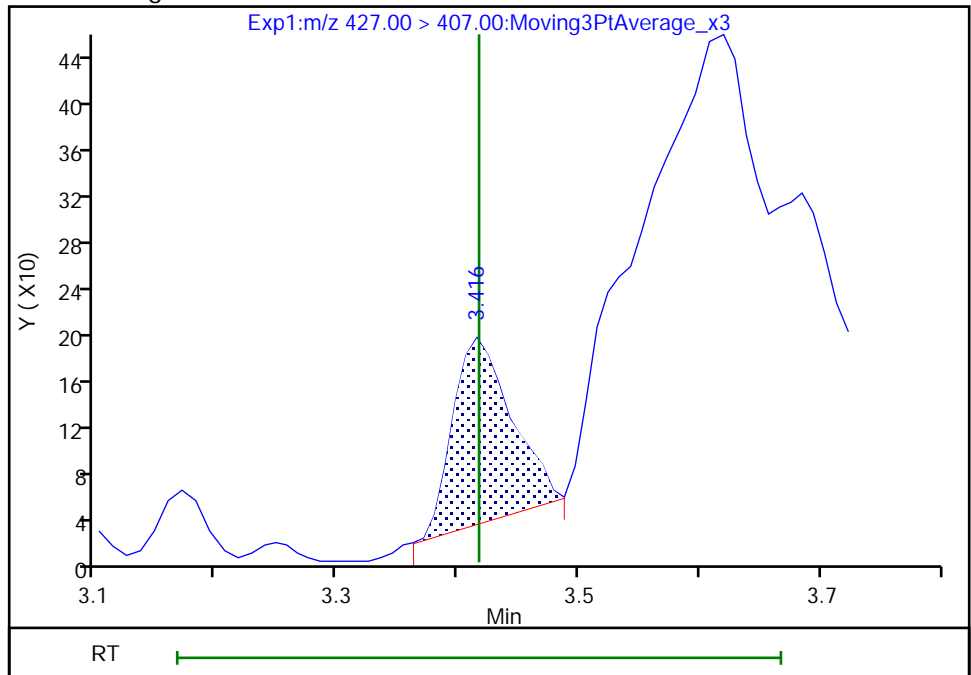
RT: 3.42
Area: 529
Amount: 0.001564
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 531
Amount: 0.001570
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 14:13:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 207 of 950

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: DUP_09_011723P Lab Sample ID: 460-273105-6
 Matrix: Solid Lab File ID: PA230126A14.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:55
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.24(g) Date Analyzed: 01/26/2023 21:32
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 29.1 % Solids: 70.9 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.67	U	0.67	0.44
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.077	J	0.27	0.074
307-24-4	Perfluorohexanoic acid (PFHxA)	0.075	J	0.27	0.062
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053
335-67-1	Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.078
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.: 460-273105-1
 SDG No.: _____
 Client Sample ID: DUP_09_011723P Lab Sample ID: 460-273105-6
 Matrix: Solid Lab File ID: PA230126A14.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:55
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.24(g) Date Analyzed: 01/26/2023 21:32
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 29.1 % Solids: 70.9 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	70		50-150
STL01892	13C4 PFHpA	79		50-150
STL00990	13C4 PFOA	82		50-150
STL00991	13C4 PFOS	66		50-150
STL00995	13C5 PFNA	83		50-150
STL00992	13C4 PFBA	85		50-150
STL00993	13C2 PFHxA	83		50-150
STL00996	13C2 PFDA	75		50-150
STL00997	13C2 PFUnA	75		50-150
STL00998	13C2 PFDoA	80		50-150
STL01056	13C8 FOSA	64		50-150
STL01893	13C5 PFPeA	79		50-150
STL02116	13C2 PFTeDA	85		50-150
STL02118	d3-NMeFOSAA	95		50-150
STL02117	d5-NEtFOSAA	106		50-150
STL02279	M2-6:2 FTS	100		50-150
STL02280	M2-8:2 FTS	96		50-150
STL02337	13C3 PFBS	65		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
 Lims ID: 460-273105-A-6-A
 Client ID: DUP_09_011723P
 Sample Type: Client
 Inject. Date: 26-Jan-2023 21:32:34 ALS Bottle#: 11 Worklist Smp#: 14
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-6-A
 Misc. Info.: 200-0054135-014 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 17:24:09

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	1712549	1.07	85.3	13080	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.000	73374	0.0131		6.5		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1286801	0.99	79.2	4398	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	33754	0.0286		0.7		M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1080057	0.7573	65.1	74285	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.411	2.384	0.027	1.006	2044	0.002054	Target=2.10	1.1		
298.90 > 99.00	2.397	2.384	0.013	1.000	1891		1.08(1.05-3.15)	0.1		
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1401196	1.04	83.0	6755	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.730	2.706	0.024	1.000	32991	0.0279	Target=13.16	4.0		M
313.00 > 119.00	2.730	2.706	0.024	1.000	1758		18.77(6.58-19.74)	2.1		M
D 11 18O2 PFHxS	403.00 > 84.00	3.091	3.069	0.022	0.898	857266	0.8261	69.9	5313	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.091	3.069	0.022	1.000	6344	0.007972	Target=3.18	3.3		RM
399.00 > 99.00	3.103	3.069	0.034	1.004	8946		0.71(1.59-4.77)	1.5		M
D 9 13C4 PFHpA	367.00 > 322.00	3.091	3.069	0.022	0.898	1330824	0.9848	78.8	5140	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.091	3.069	0.022	1.000	10517	0.009276	Target=4.10	2.0		M
363.00 > 169.00	3.091	3.069	0.022	1.000	2633		3.99(2.05-6.16)	7.3		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	194792	1.19		100	203	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	928	0.002471			1.9	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.425	3.417	0.008	0.910	720	0.001180	Target=4.59		0.5	R
449.00 > 99.00	3.372	3.417	-0.045	0.896	12792		0.06(2.30-6.89)		2.9	
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1471165	1.03		82.2	8802	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1747189	1.25			10432	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.452	3.426	0.026	1.003	20690	0.0162	Target=2.71		1.2	M
413.00 > 169.00	3.443	3.426	0.017	1.000	5919		3.50(1.36-4.07)		13.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	500900	0.7939		66.4	643	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.000	11602	0.0228	Target=4.23		5.0	RM
499.00 > 99.00	3.597	3.754	-0.157	0.956	120232		0.10(2.11-6.34)		83.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1440147	1.03		82.6	6402	
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.186	1340849	0.9371		75.0	7951	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.000	1791	0.001562	Target=11.13		0.4	RM
513.00 > 169.00	4.073	4.074	-0.001	0.997	665		2.69(5.56-16.69)		2.4	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	235243	1.15		95.9	326	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.132	4.144	-0.012	0.997	1636	0.002180			10.9	M
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	932930	0.8022		64.2	3686	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	334081	1.19		95.0	1662	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.236	4.226	0.010	1.003	234	0.000971			1.0	
D 30 13C2 PFUnA										
565.00 > 520.00	4.357	4.346	0.011	1.266	1160131	0.9393		75.1	8628	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.298	4.358	-0.060	0.986	569	0.002147			2.2	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	356644	1.32		106	1071	
D 36 13C2 PFDoA										
615.00 > 570.00	4.594	4.584	0.010	1.334	1244595	1.01		80.4	8147	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1134715	1.07		85.2	8490	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d

Injection Date: 26-Jan-2023 21:32:34

Instrument ID: LC812

Lims ID: 460-273105-A-6-A

Lab Sample ID: 200-273105-6

Client ID: DUP_09_011723P

Operator ID: LC812user

ALS Bottle#: 11

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

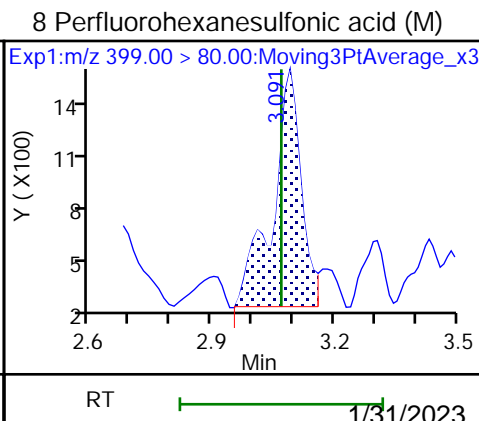
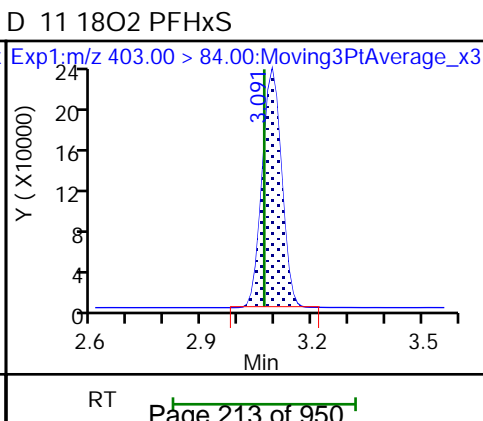
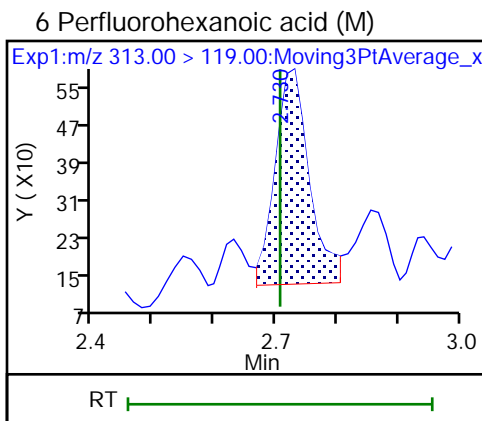
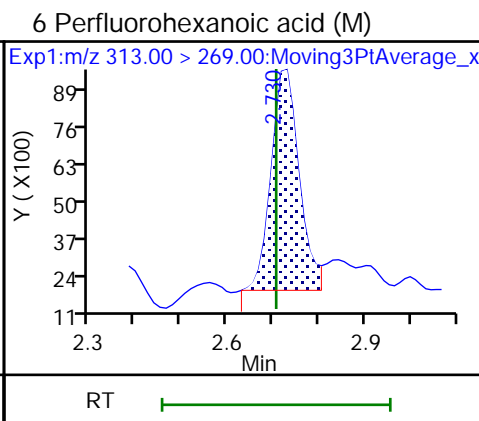
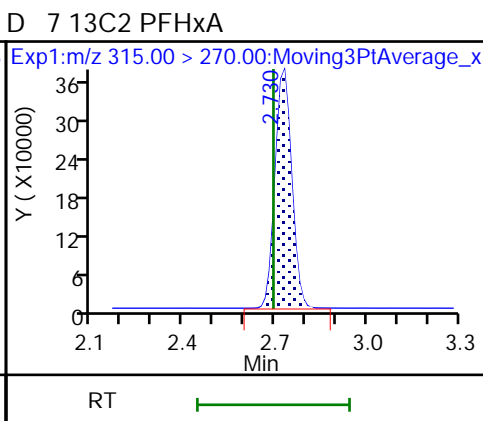
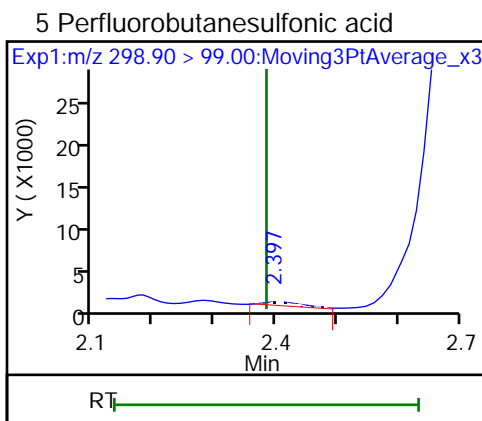
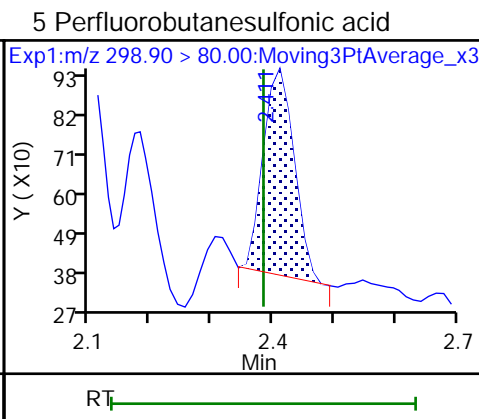
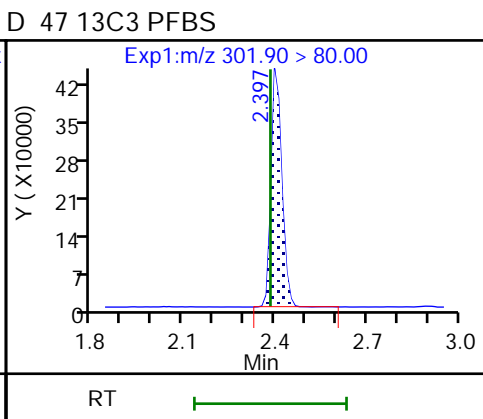
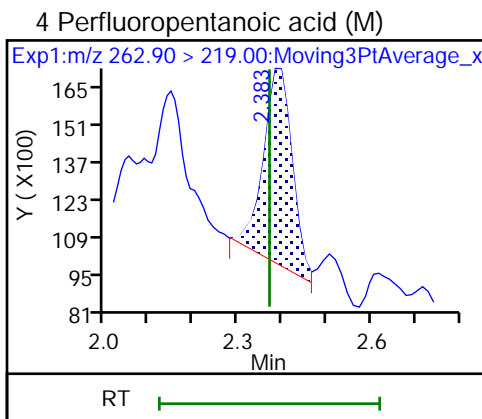
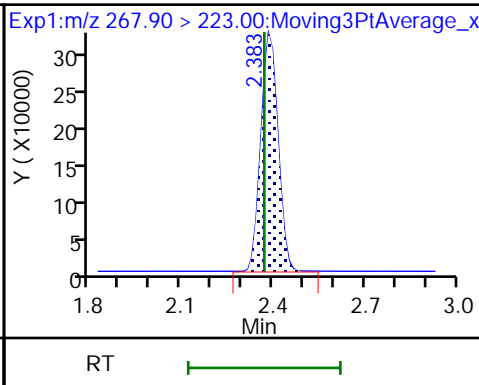
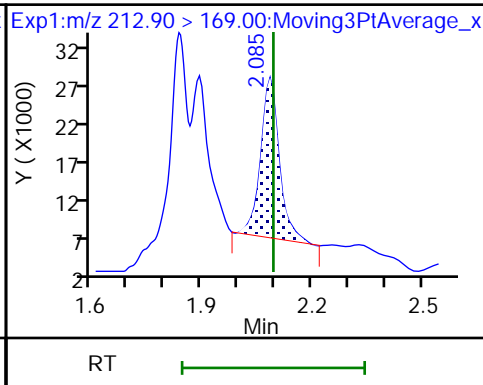
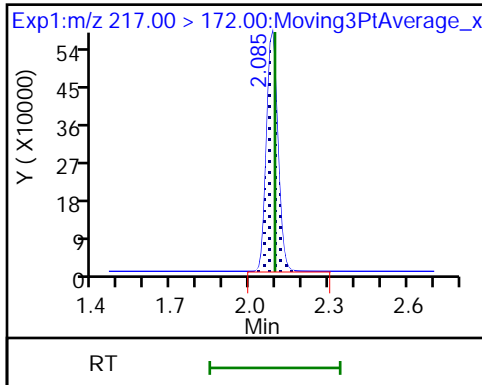
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

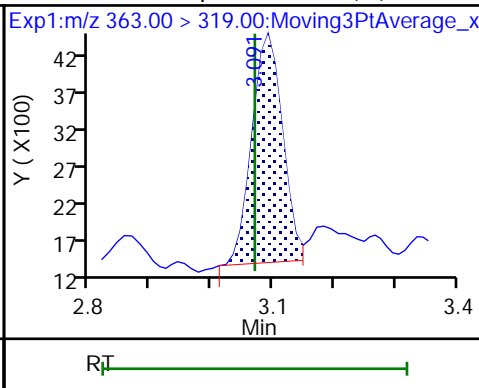
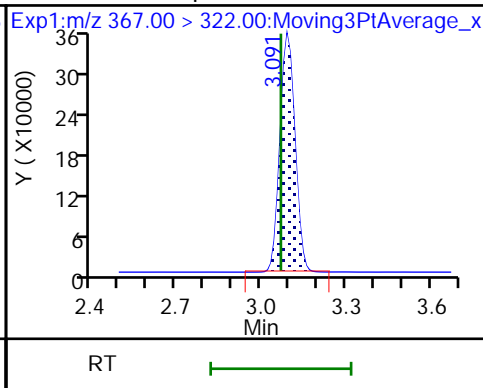
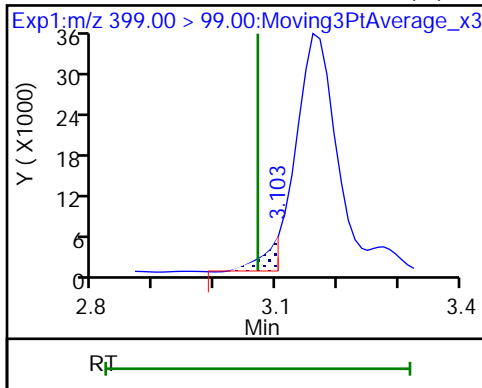
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

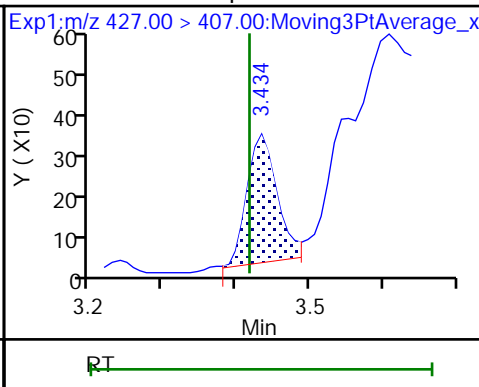
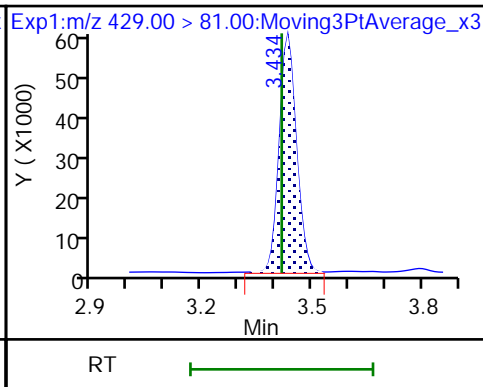
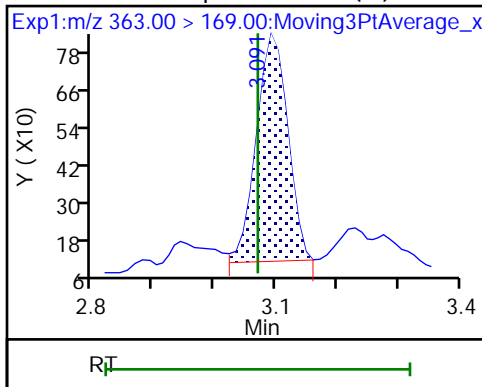
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

D 12 M2-6:2 FTS

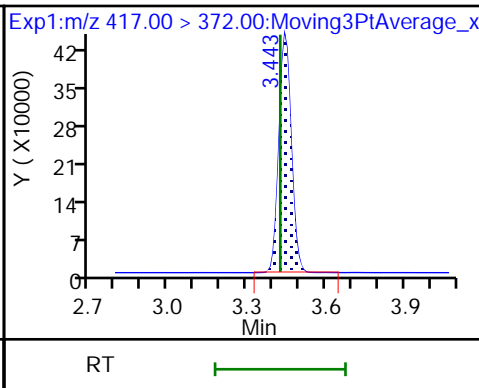
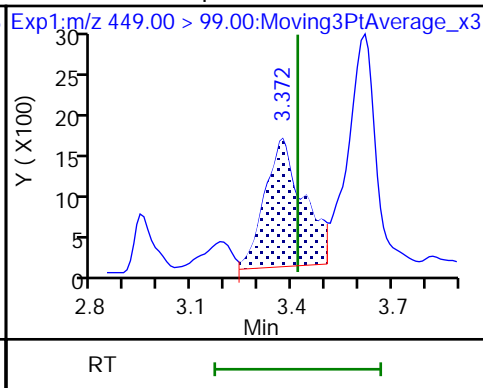
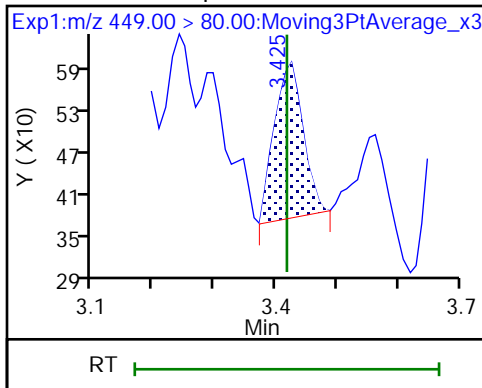
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

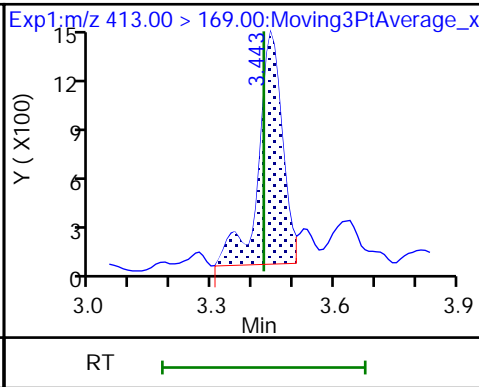
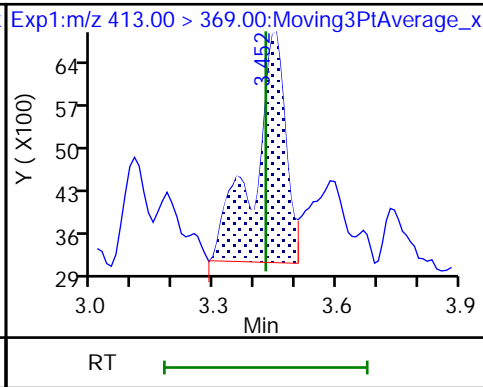
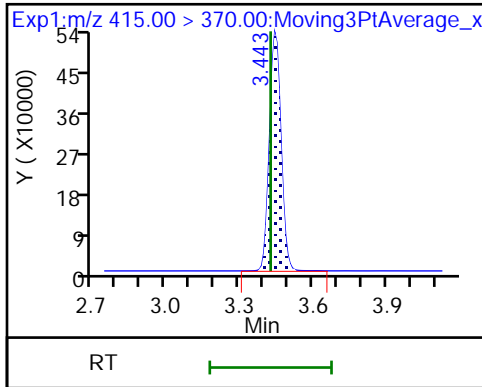
D 14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

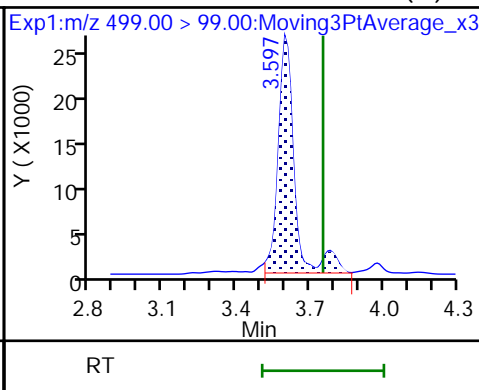
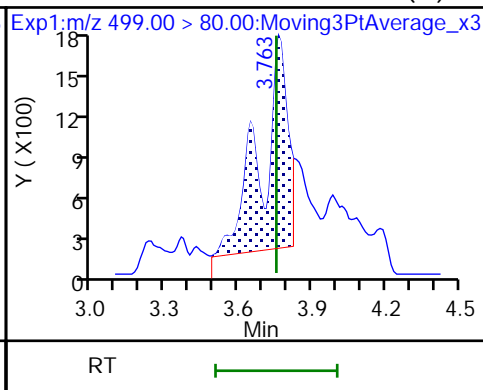
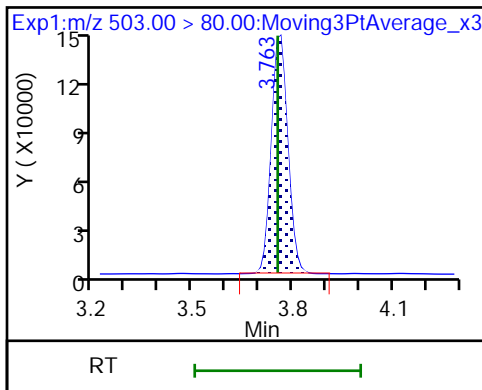
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

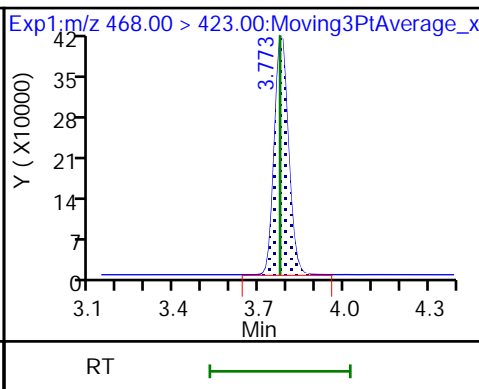
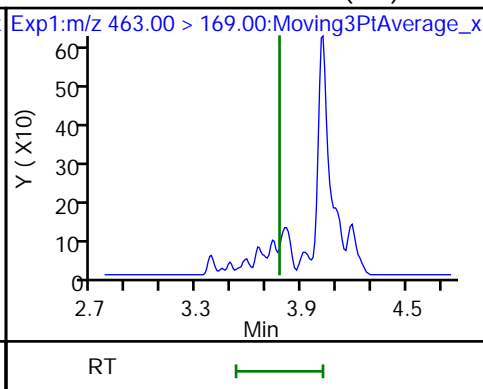
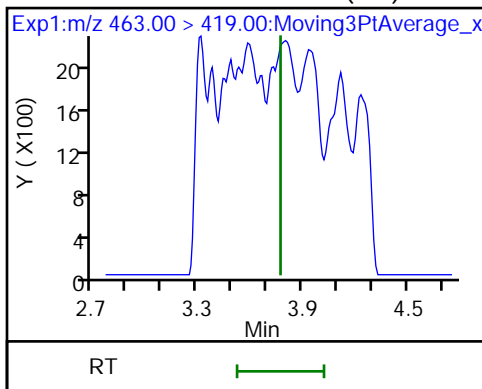
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

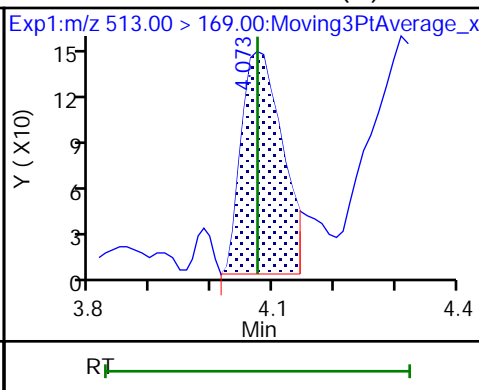
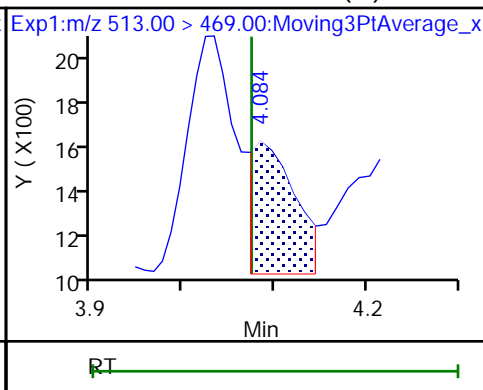
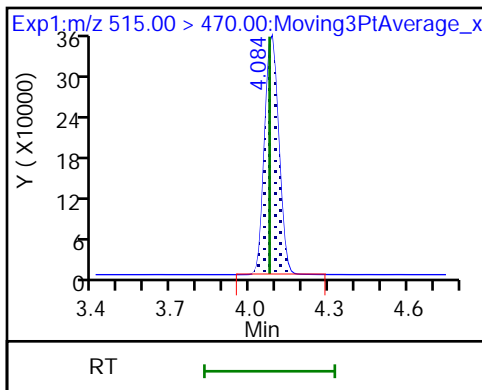
D 19 13C5 PFNA



D 23 13C2 PFDA

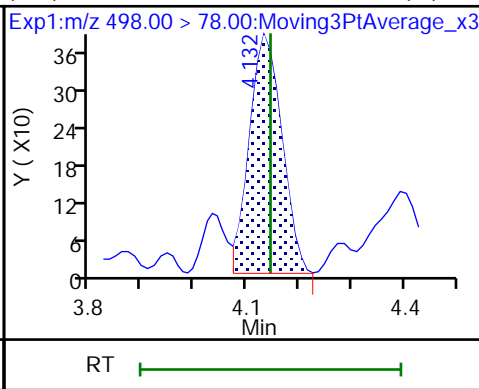
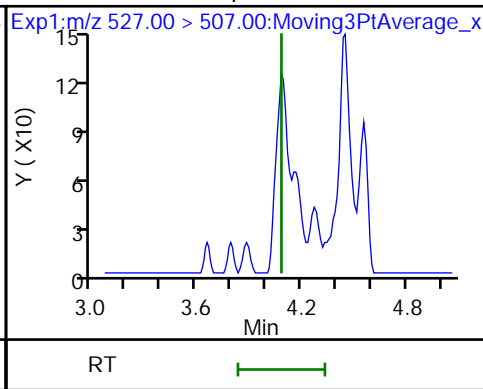
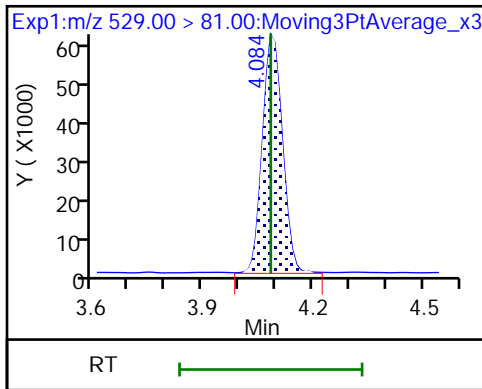
24 Perfluorodecanoic acid (M)

24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

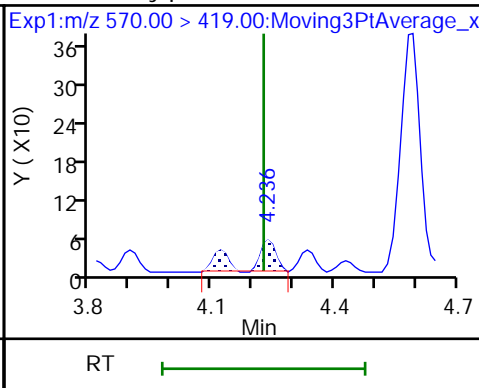
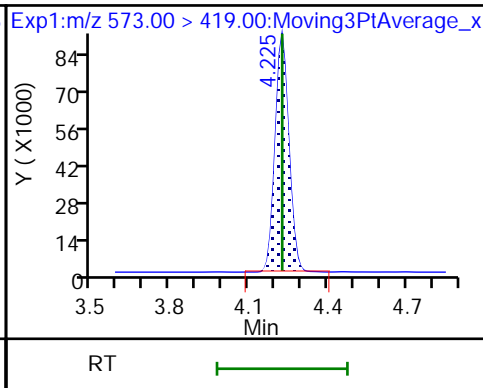
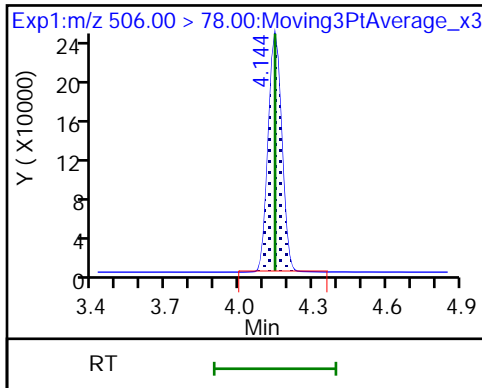
25 1H,1H,2H,2H-perfluorodecanesulfo (ND) Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

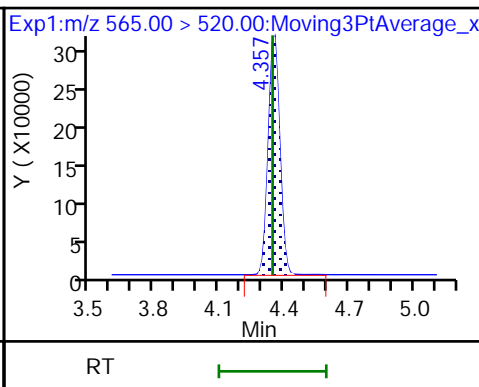
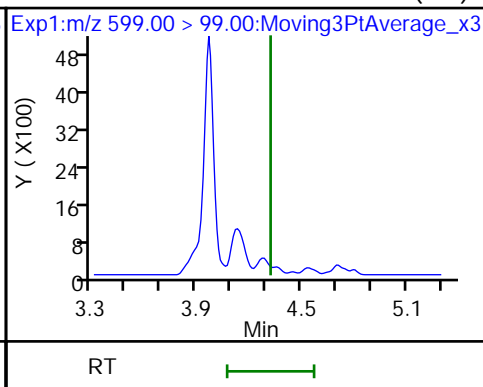
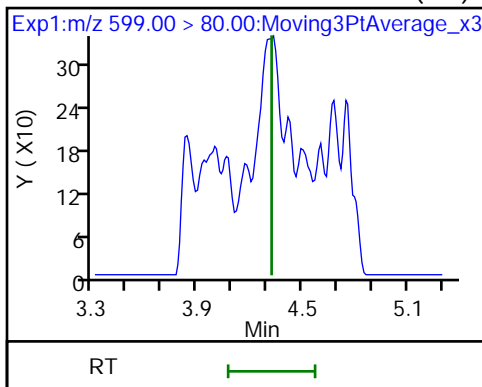
28 N-methylperfluorooctanesulfonami



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

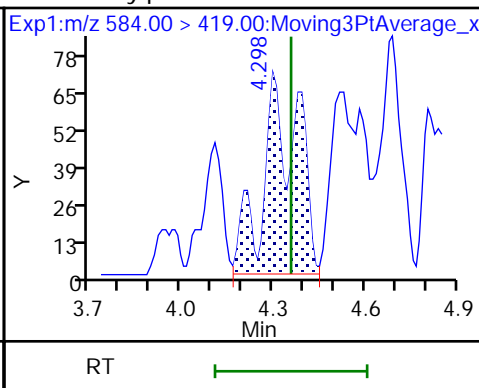
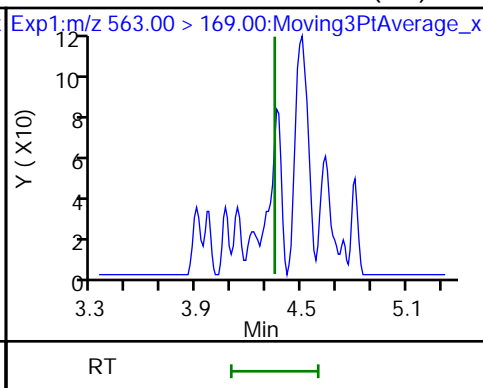
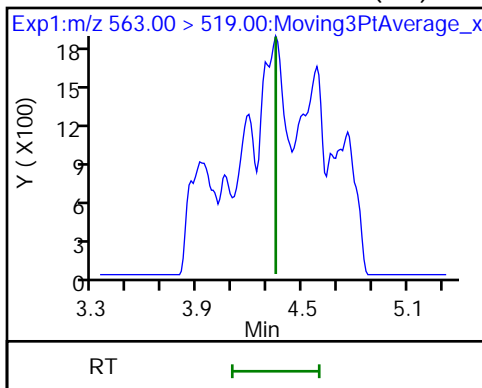
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

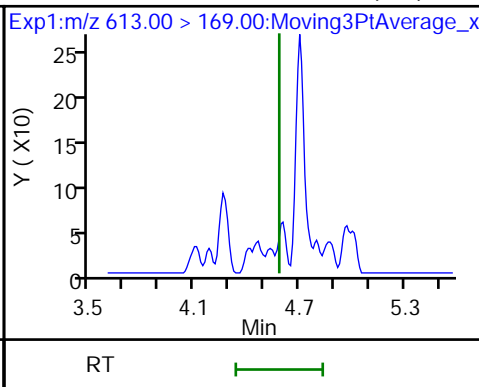
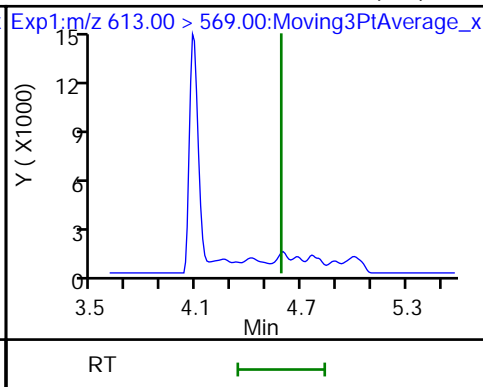
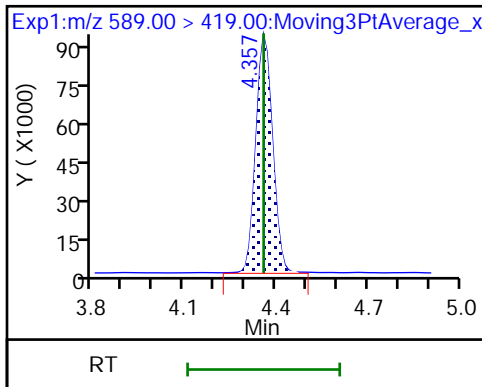
33 N-ethylperfluorooctanesulfonamid



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (ND)

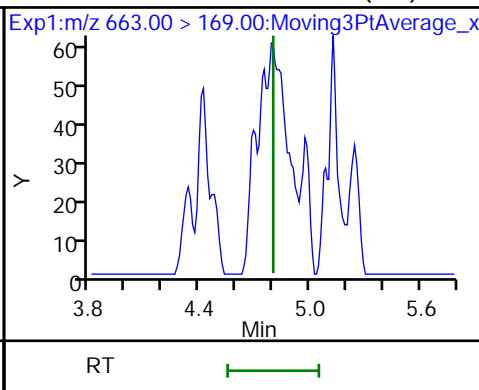
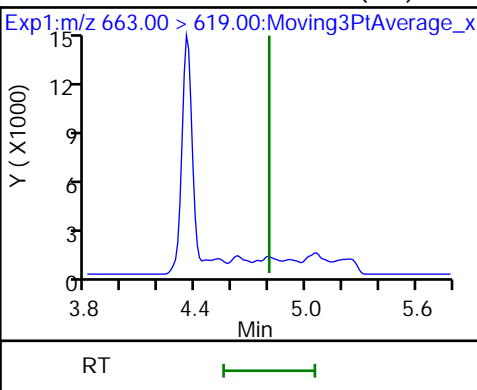
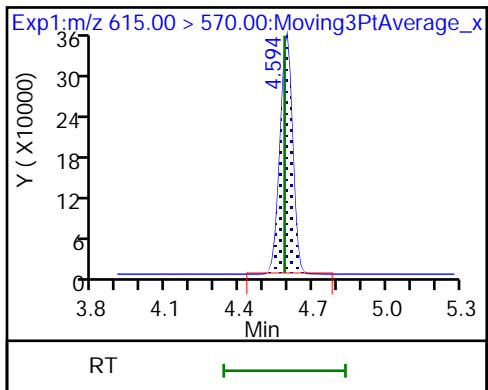
37 Perfluorododecanoic acid (ND)



D 36 13C2 PFD_oA

41 Perfluorotridecanoic acid (ND)

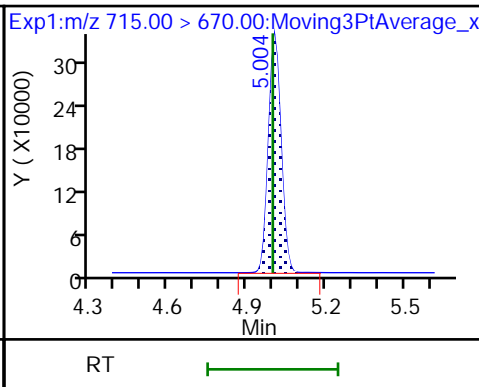
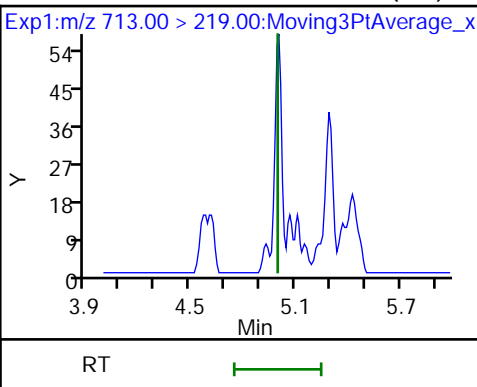
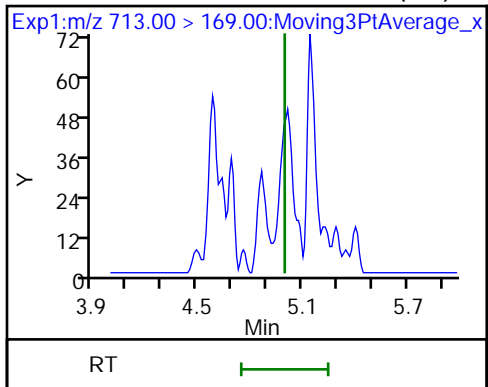
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)

D 43 13C2 PFT_eDA



Eurofins Burlington

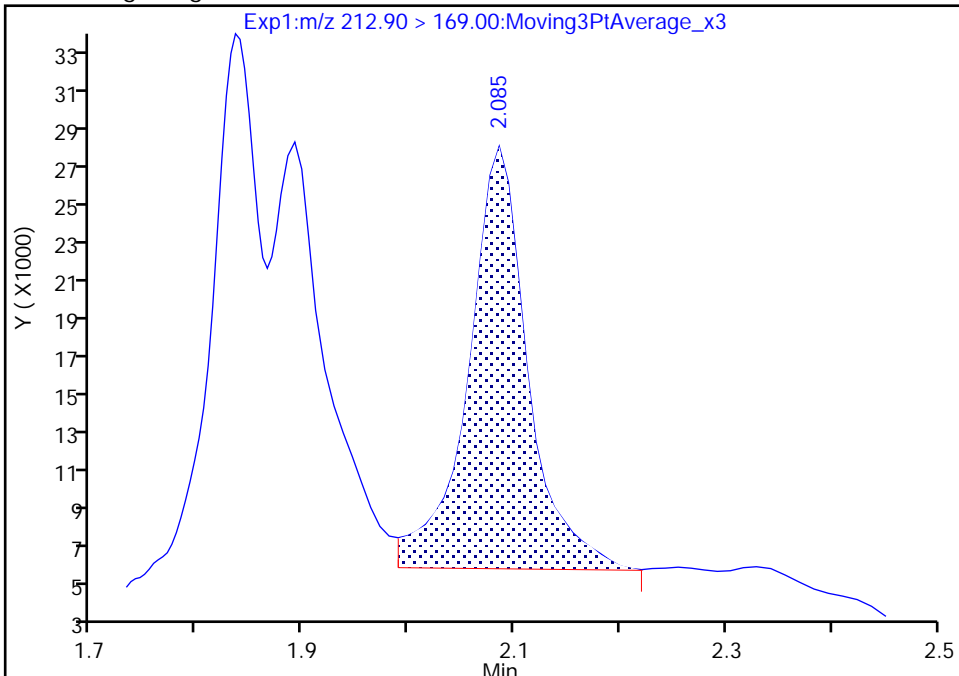
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Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

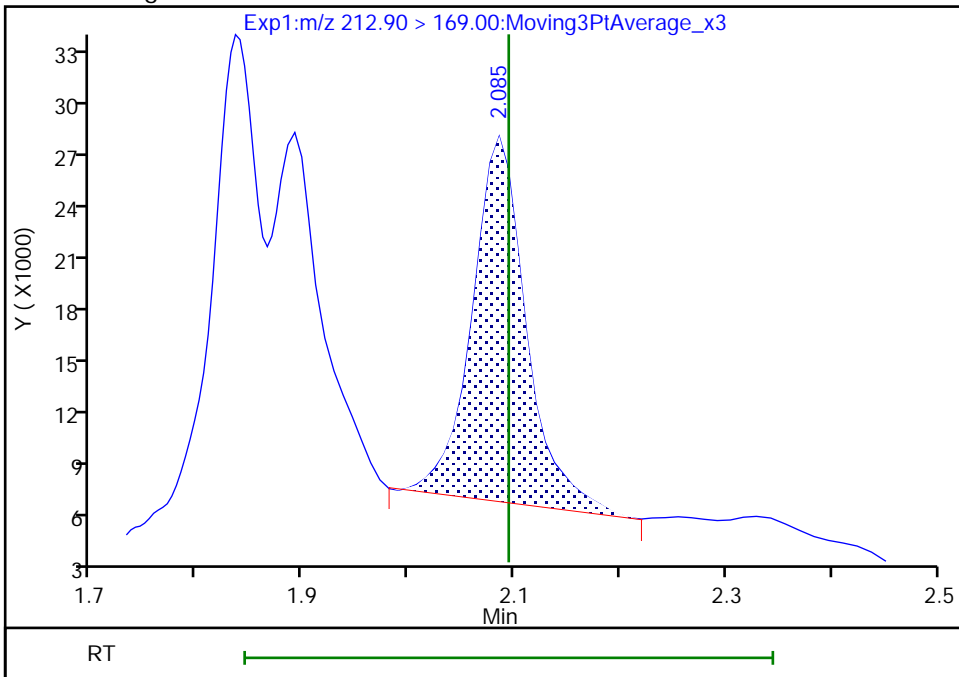
RT: 2.09
Area: 83629
Amount: 0.021035
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 73374
Amount: 0.013134
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:19:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

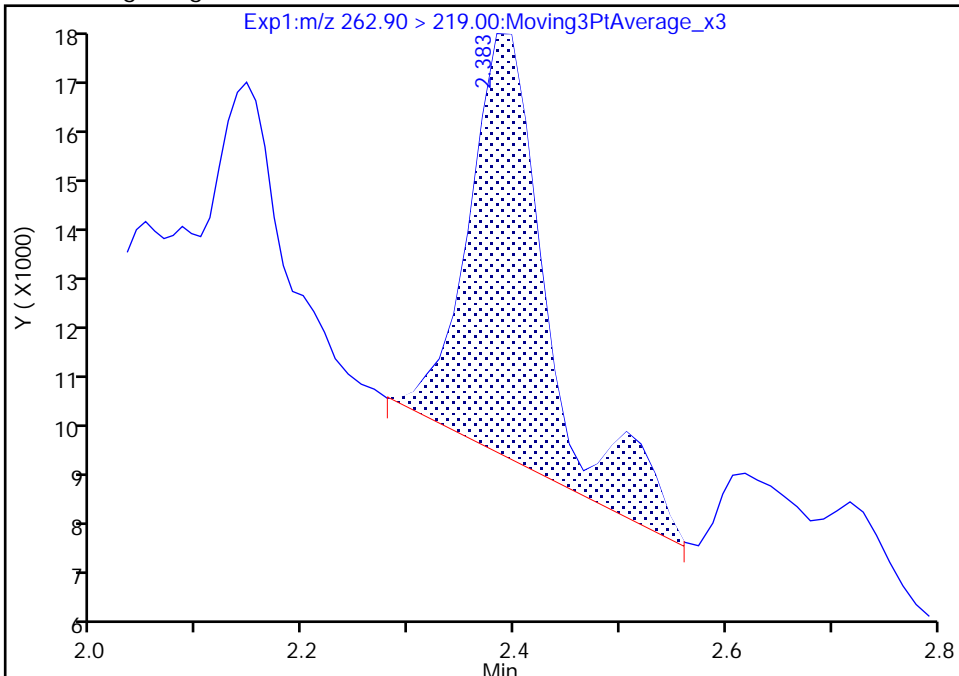
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

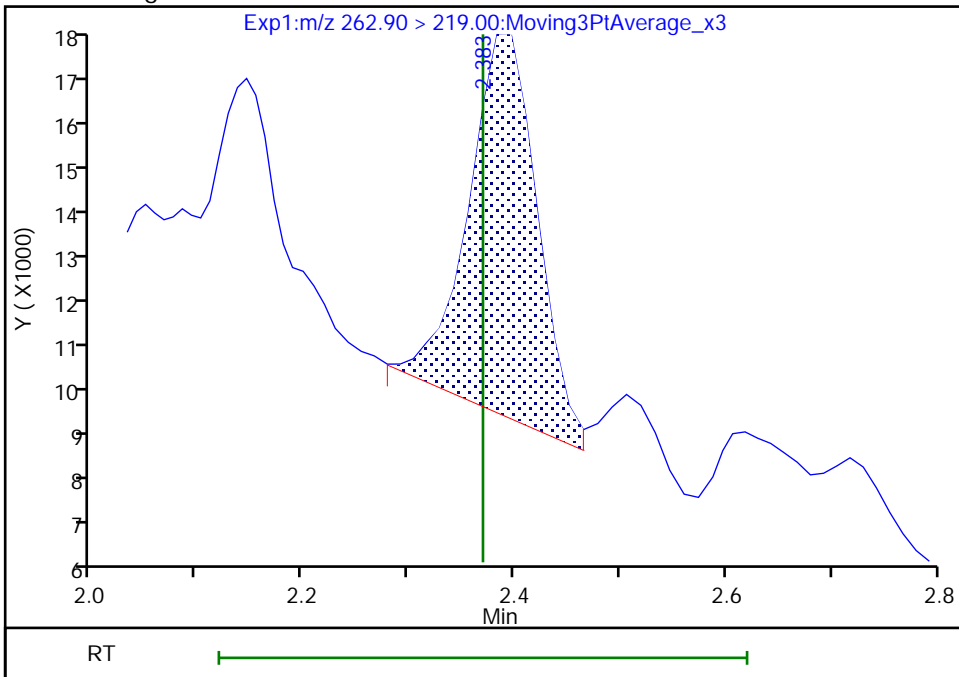
RT: 2.38
Area: 39026
Amount: 0.033101
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 33754
Amount: 0.028630
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:19:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

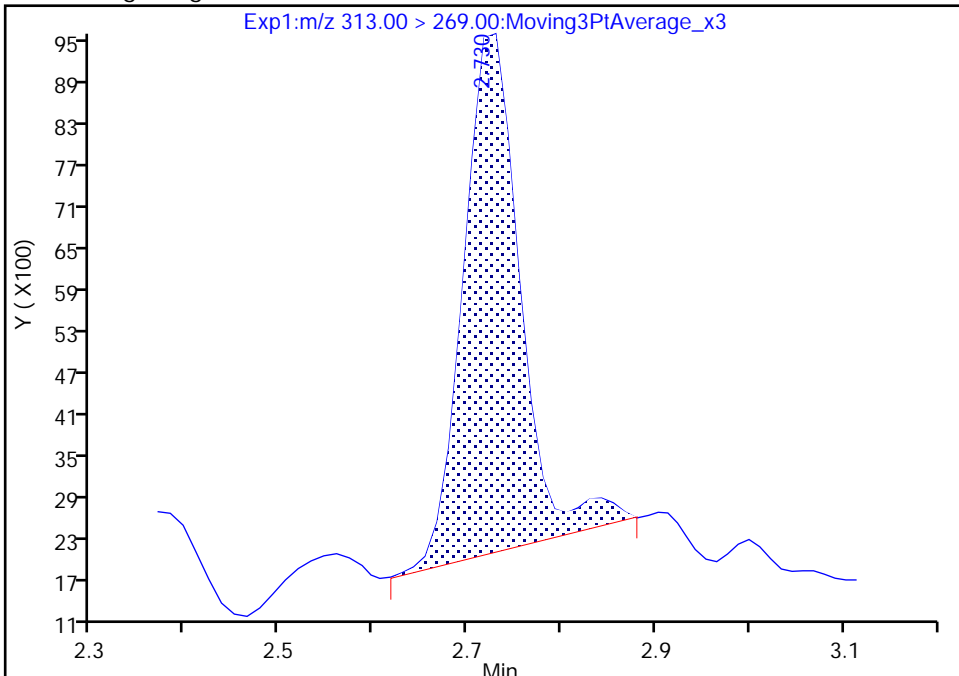
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Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

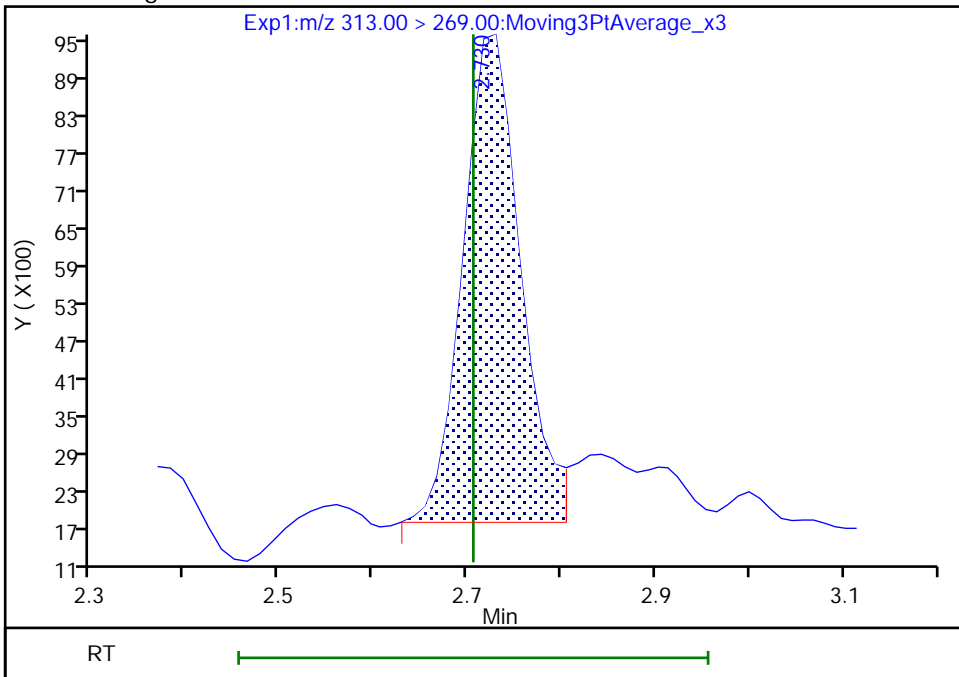
RT: 2.73
Area: 31624
Amount: 0.026778
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 32991
Amount: 0.027936
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:19:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

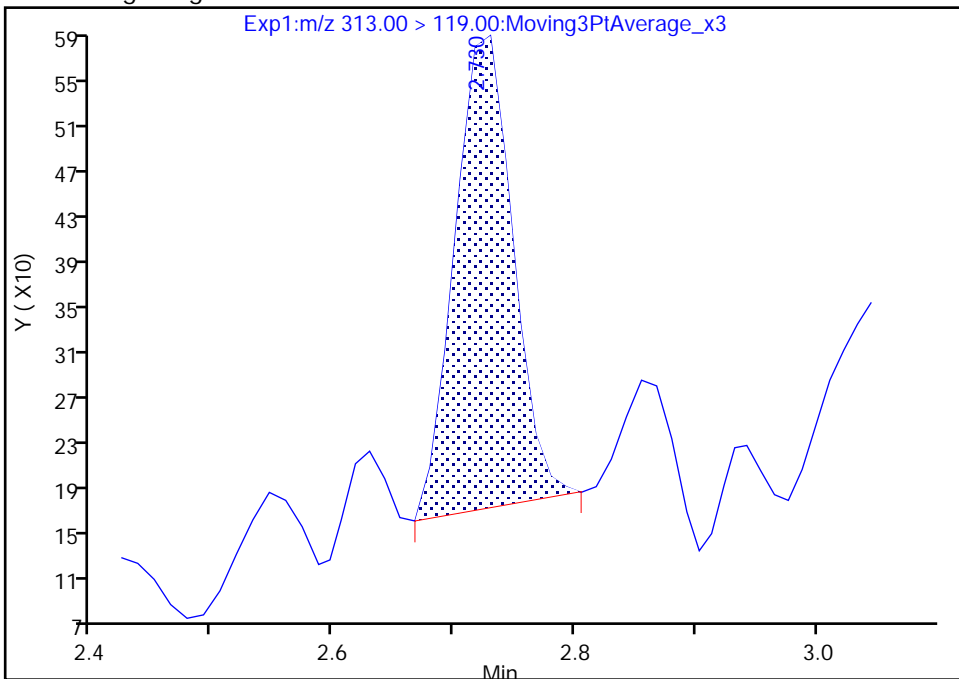
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Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

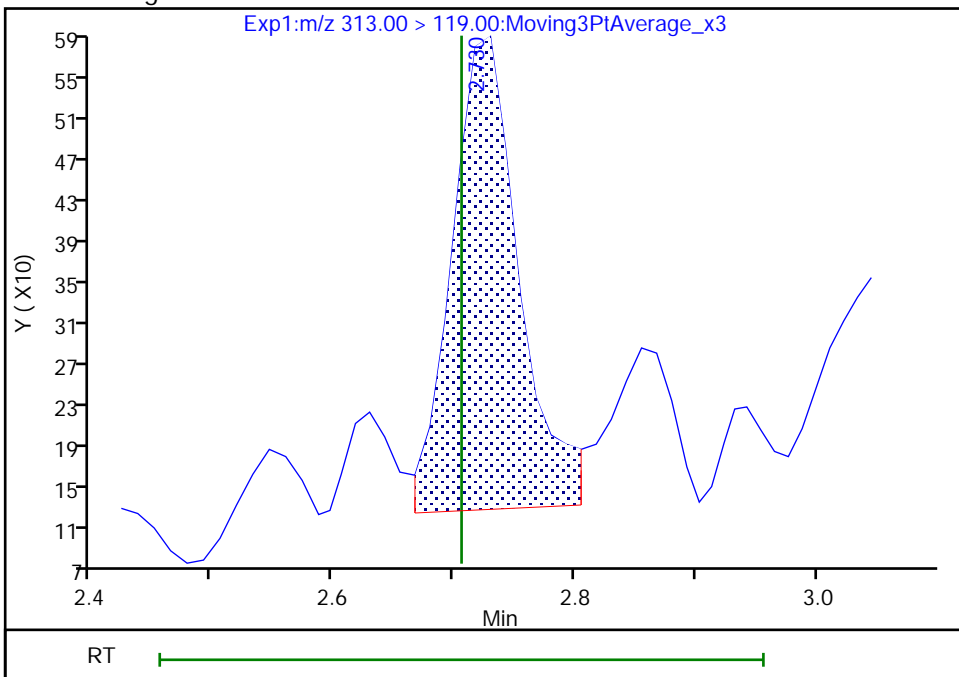
RT: 2.73
Area: 1382
Amount: 0.026778
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1758
Amount: 0.027936
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:20:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

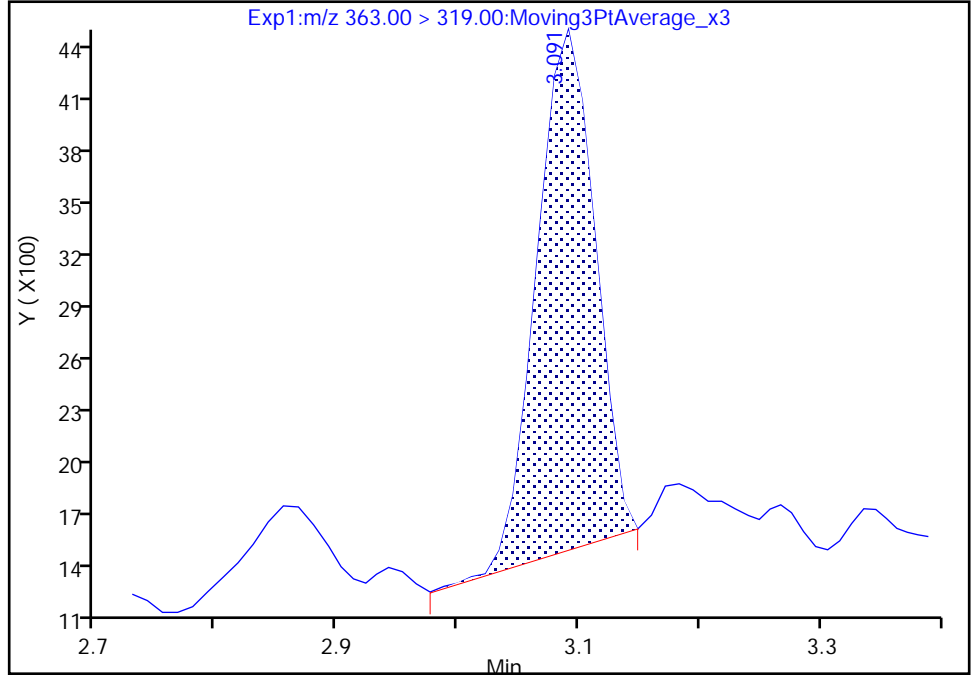
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

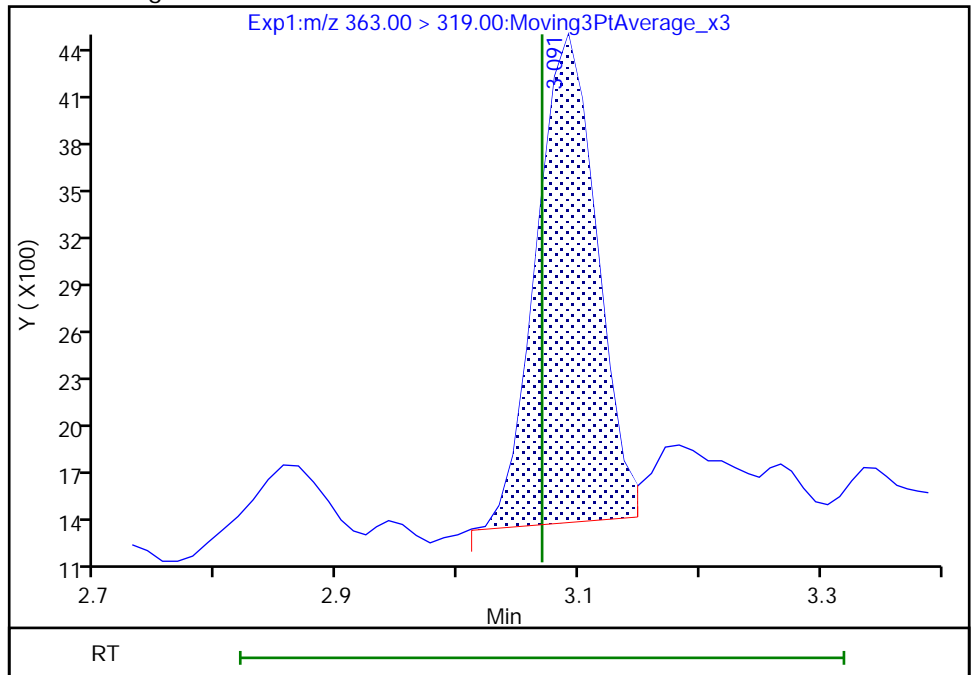
RT: 3.09
Area: 9785
Amount: 0.008631
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 10517
Amount: 0.009276
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:20:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

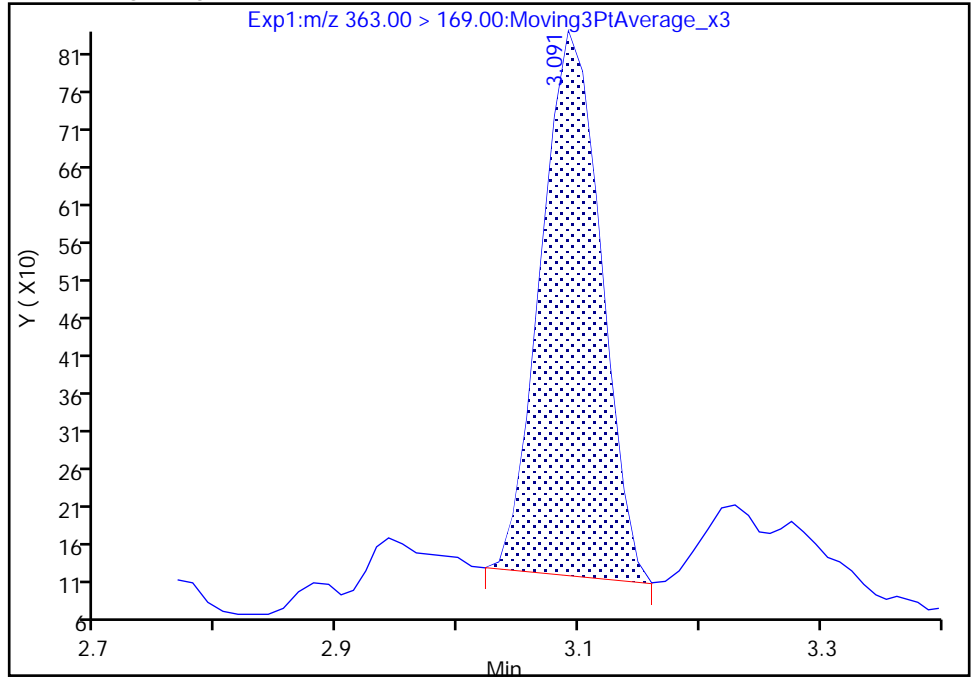
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

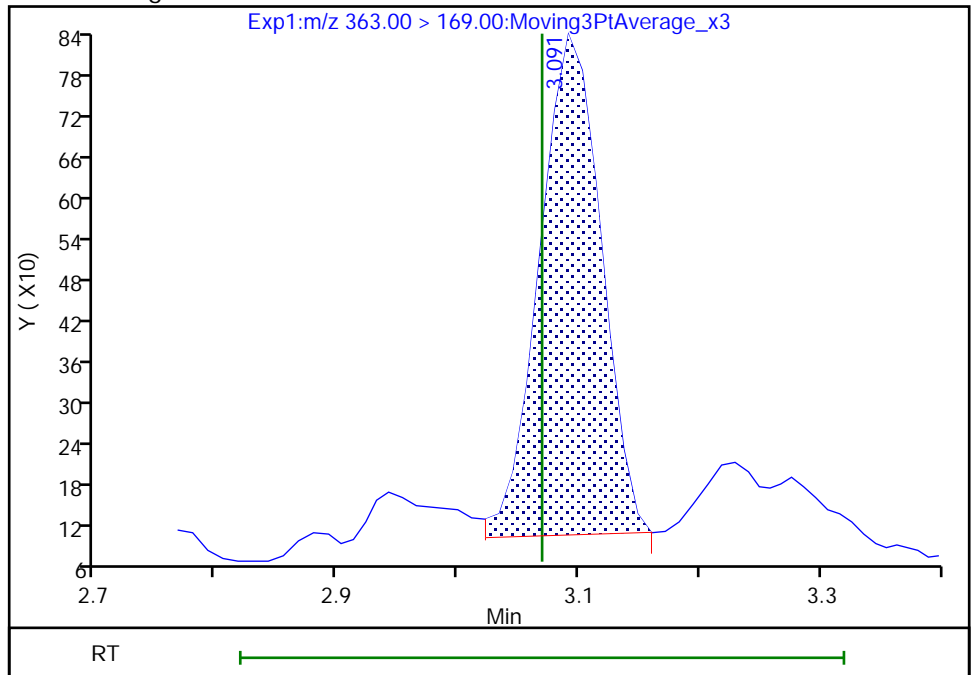
RT: 3.09
Area: 2513
Amount: 0.008631
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2633
Amount: 0.009276
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:20:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

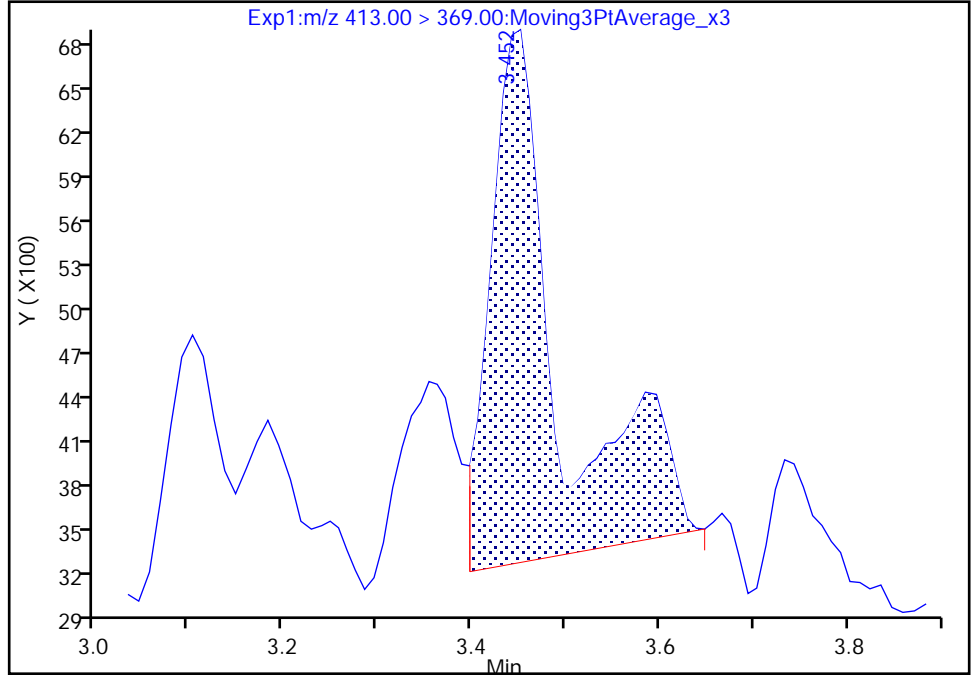
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

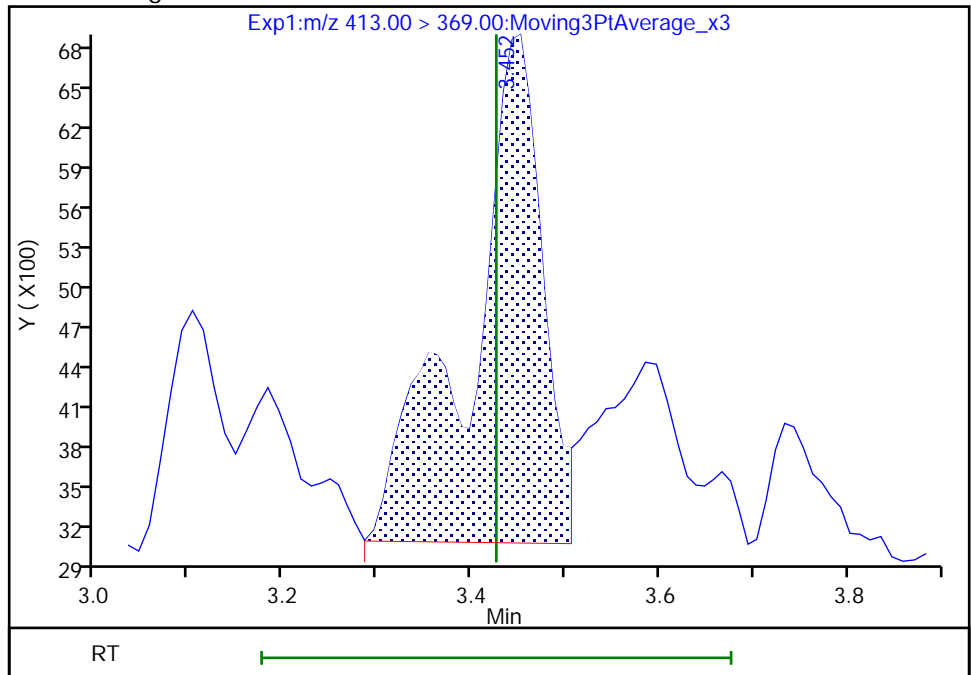
RT: 3.45
Area: 18417
Amount: 0.014379
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 20690
Amount: 0.016153
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:21:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 224 of 950

Eurofins Burlington

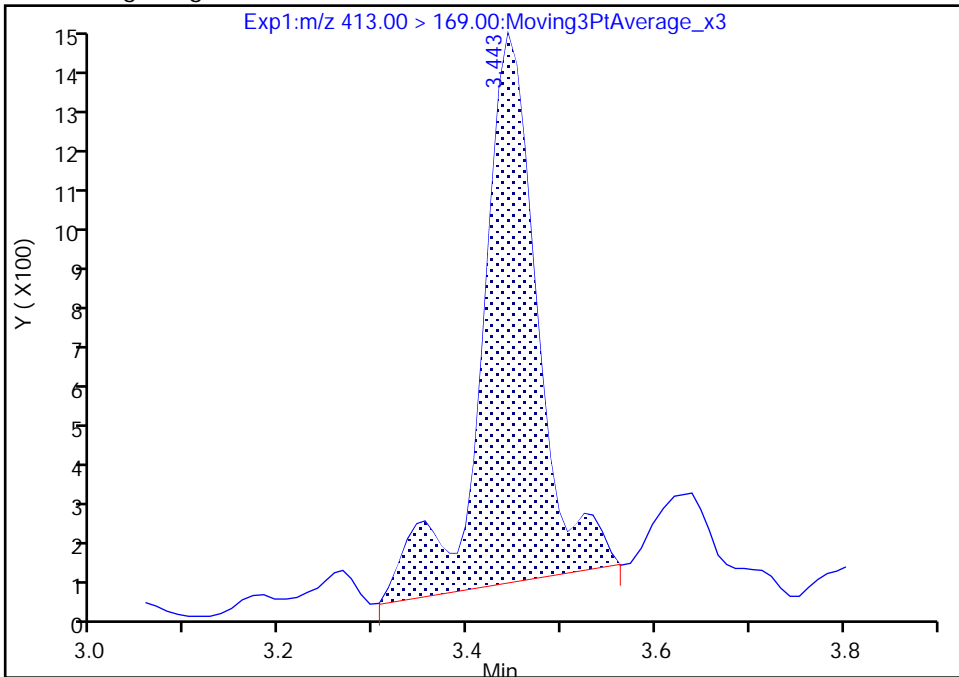
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Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

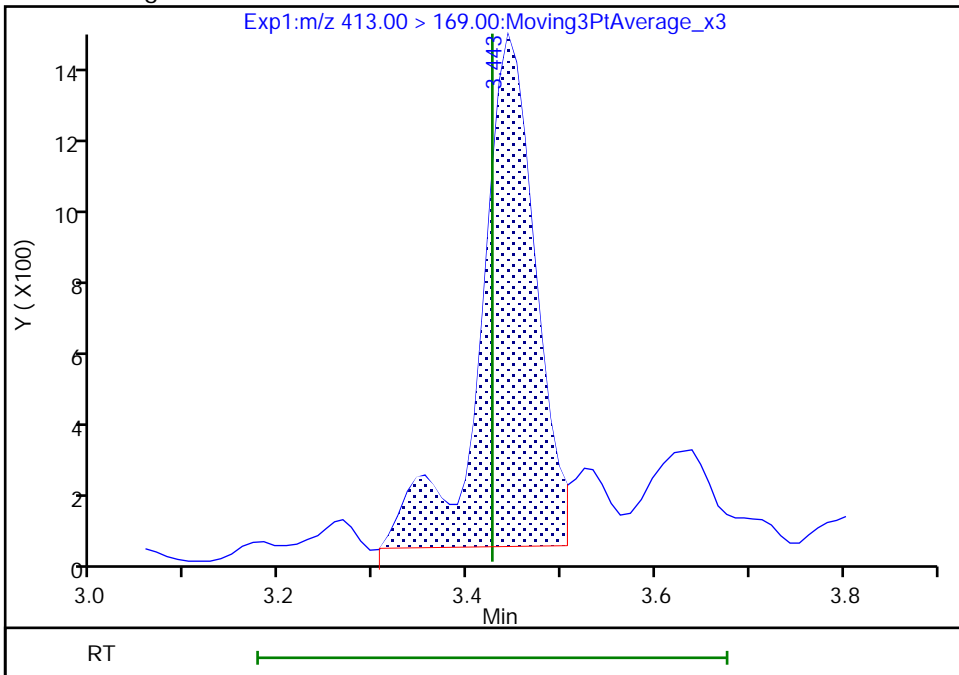
RT: 3.44
Area: 5855
Amount: 0.014379
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 5919
Amount: 0.016153
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:21:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

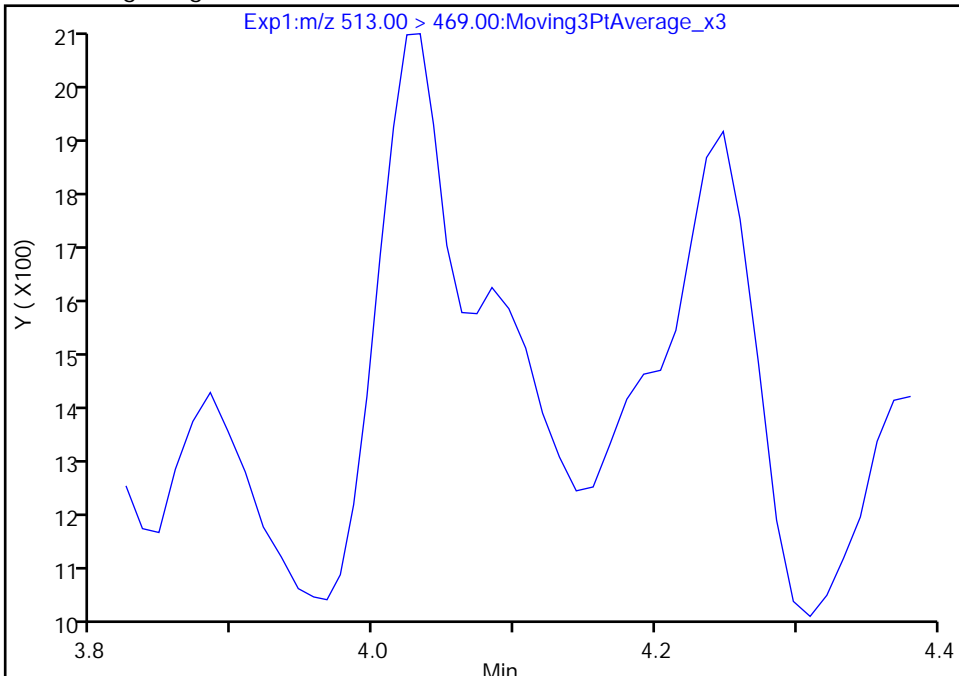
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

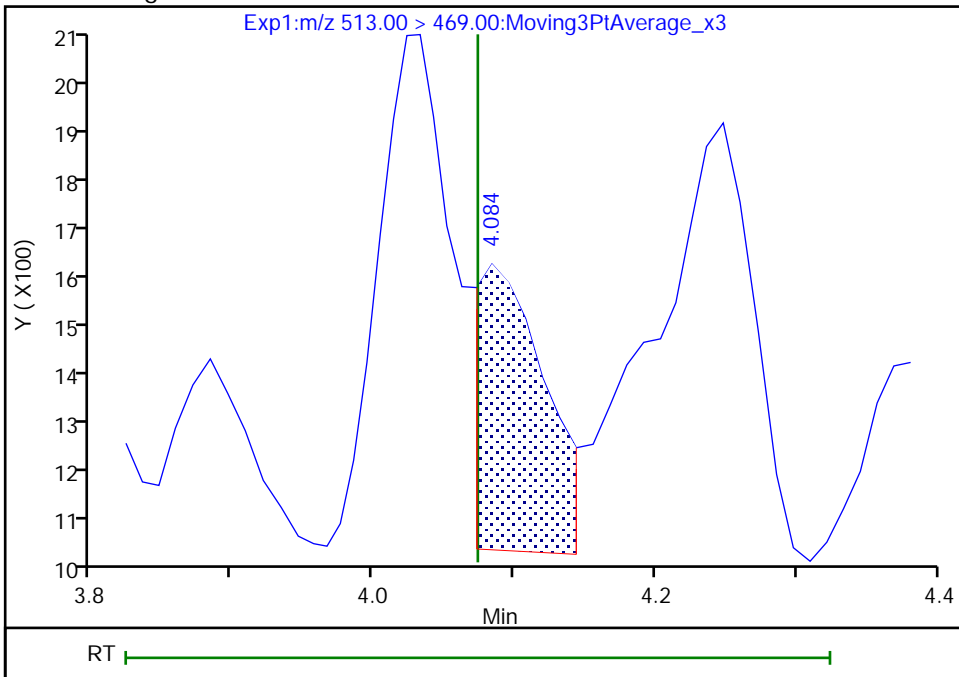
Signal: 1

Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results



RT: 4.08
Area: 1791
Amount: 0.001562
Amount Units: ng/ml

Reviewer: SJ4N, 27-Jan-2023 17:23:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

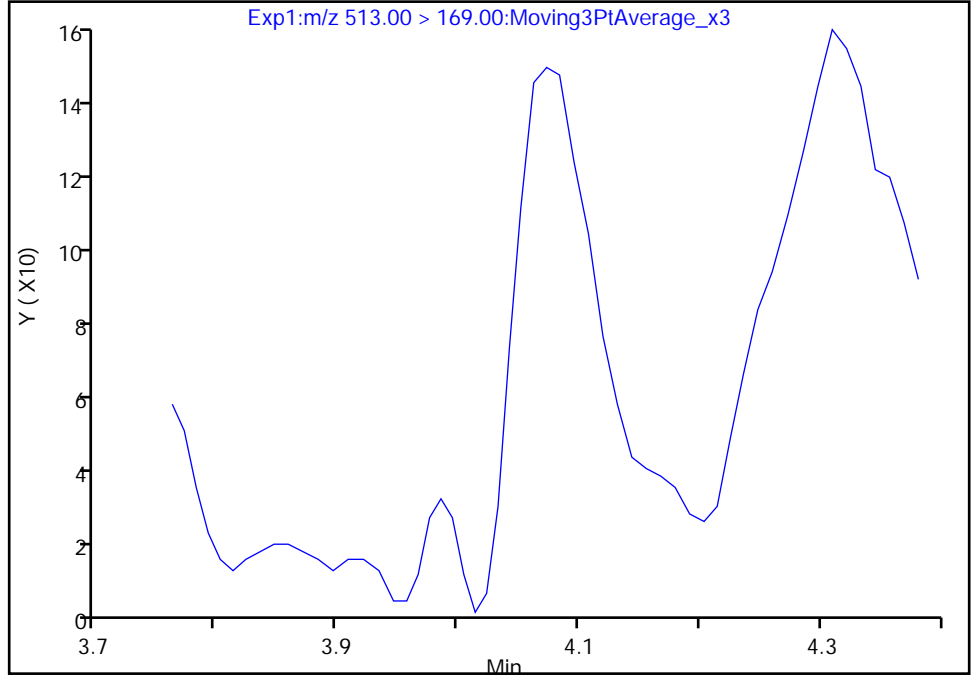
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Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

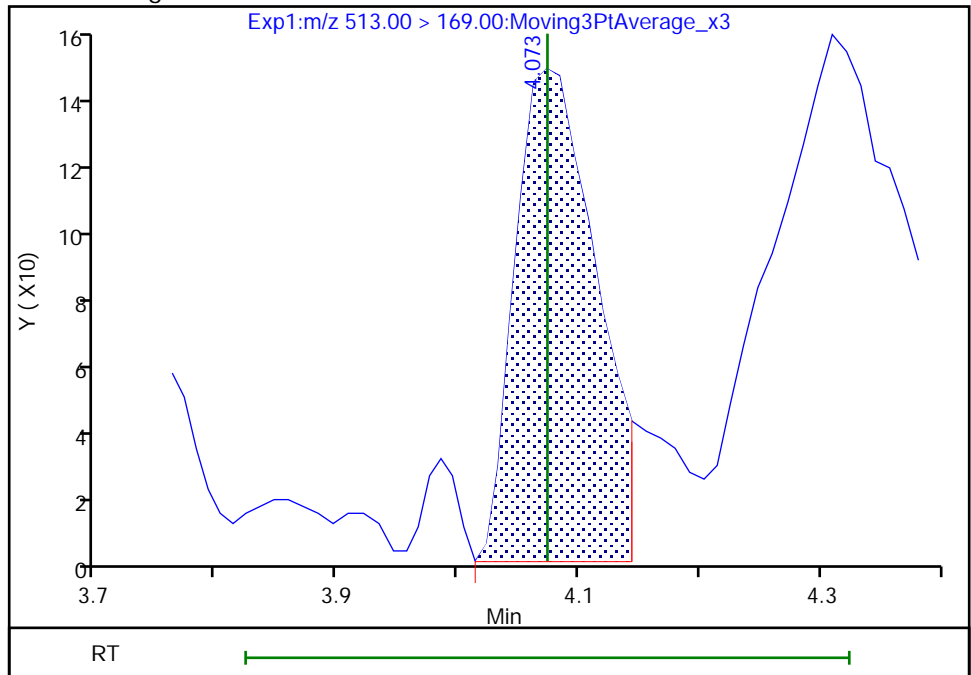
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 665
Amount: 0.001562
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:23:29

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

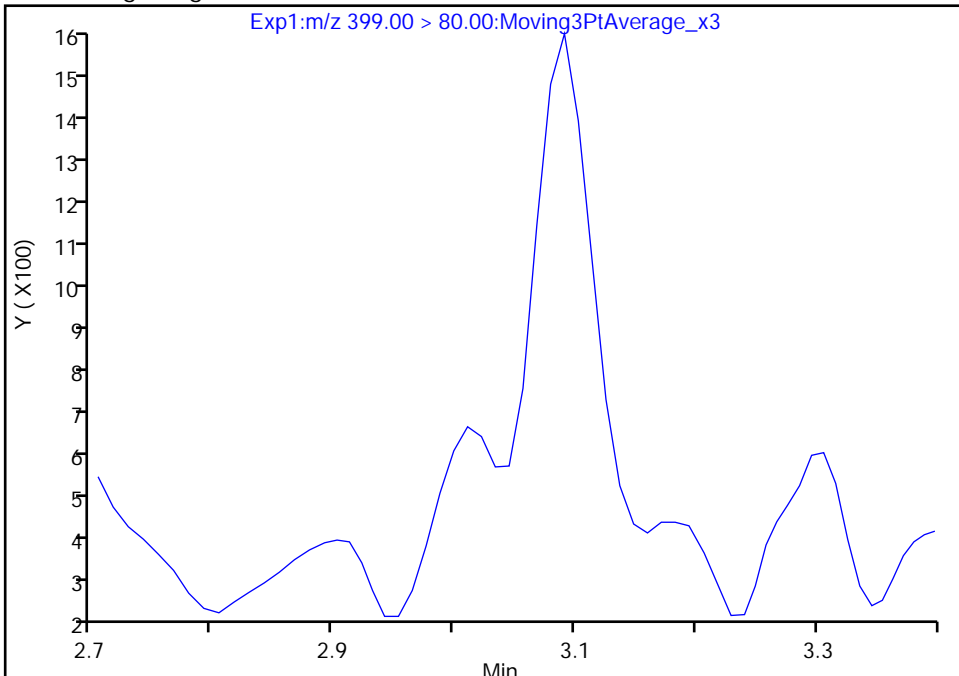
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

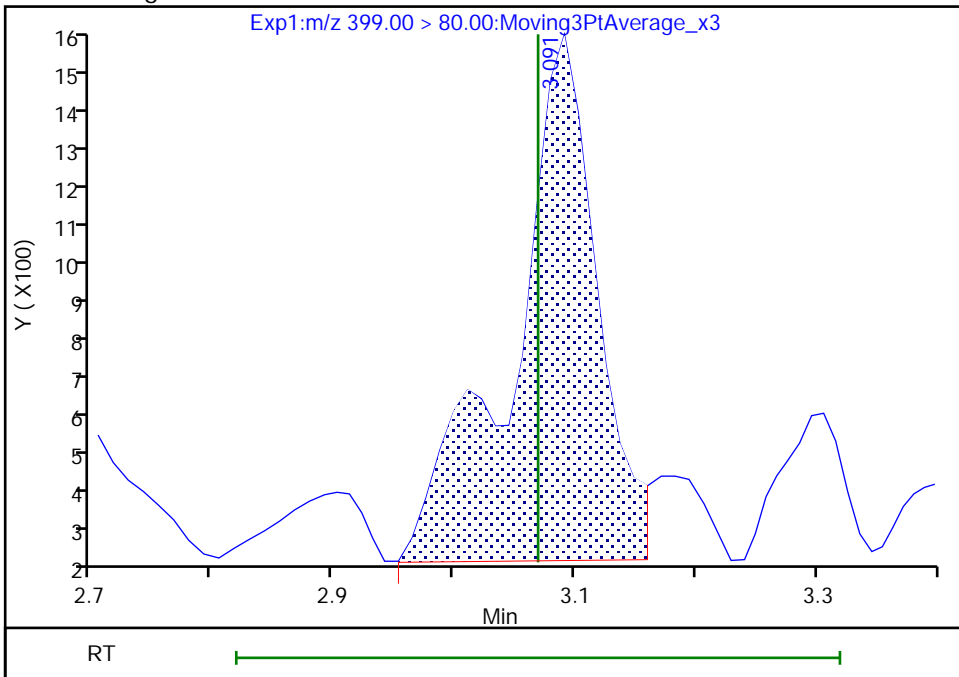
Processing Integration Results

Not Detected
Expected RT: 3.07



Manual Integration Results

RT: 3.09
Area: 6344
Amount: 0.007972
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:20:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

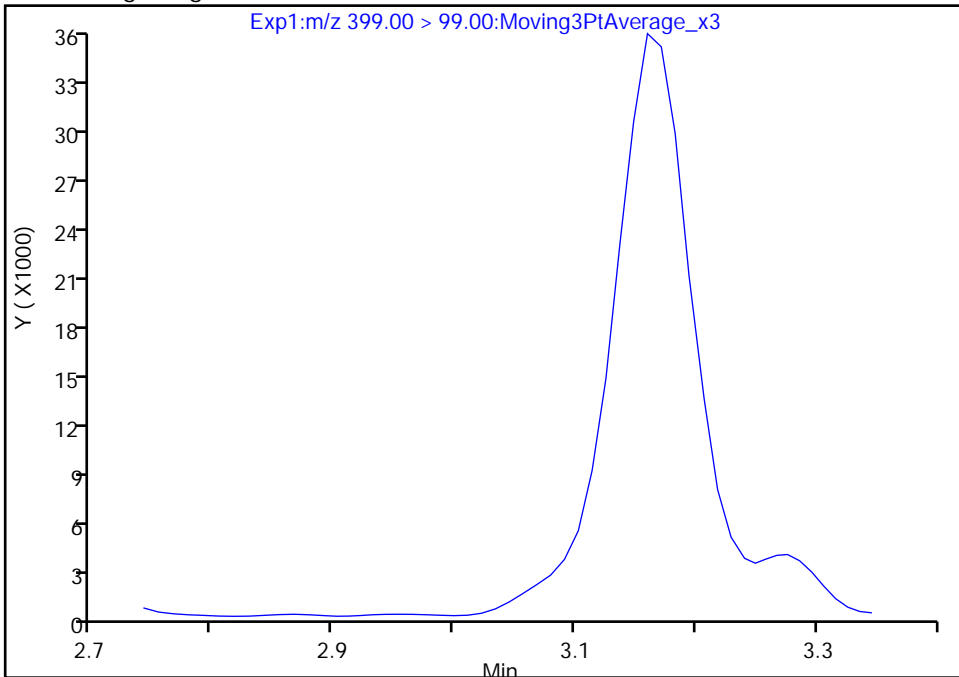
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

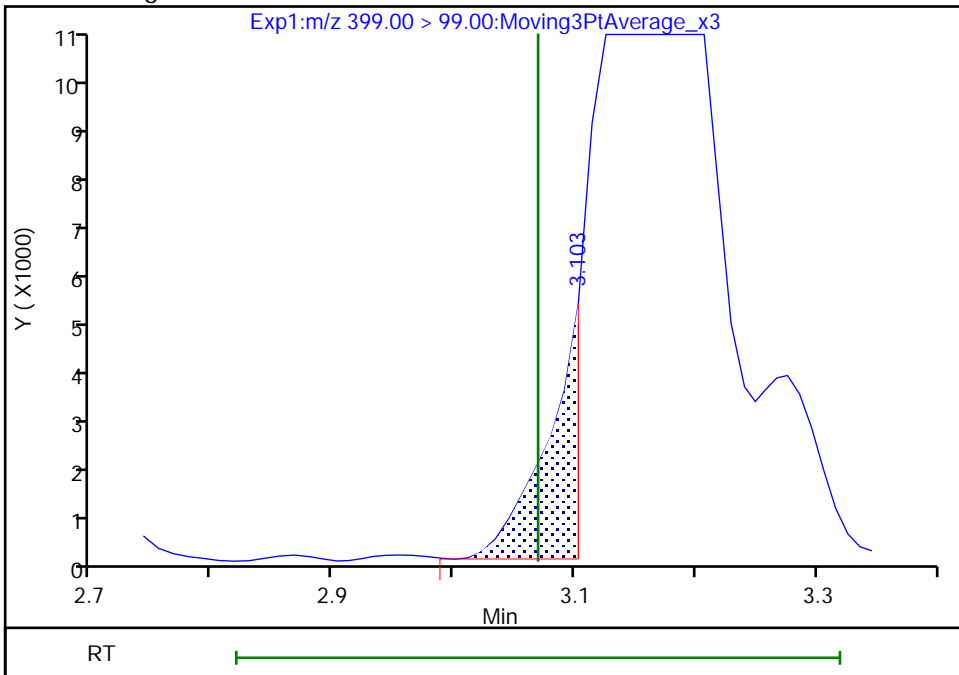
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 8946
Amount: 0.007972
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:20:29

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

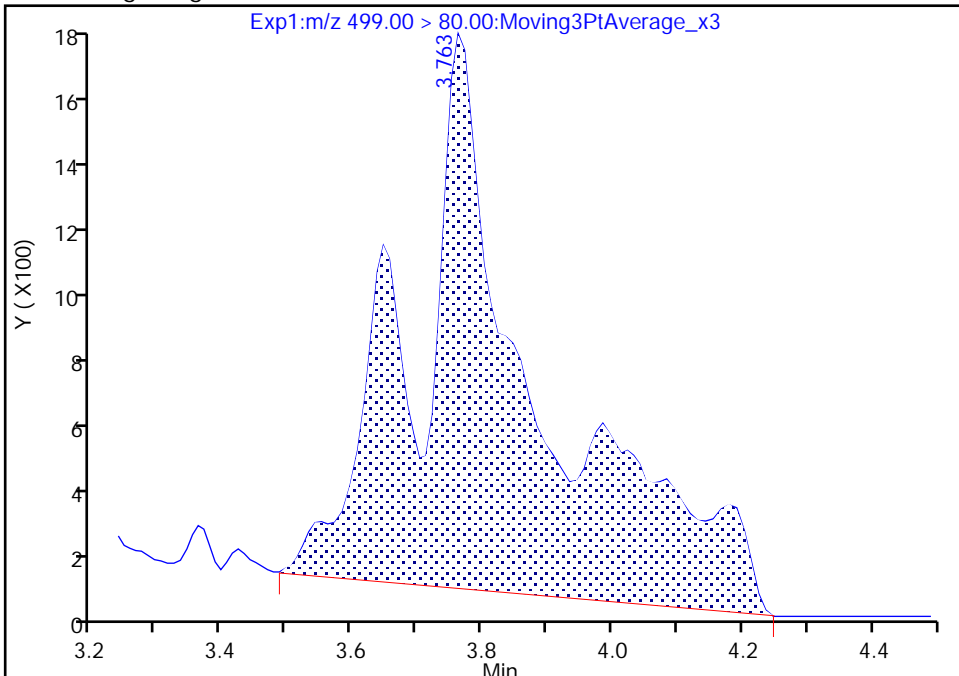
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

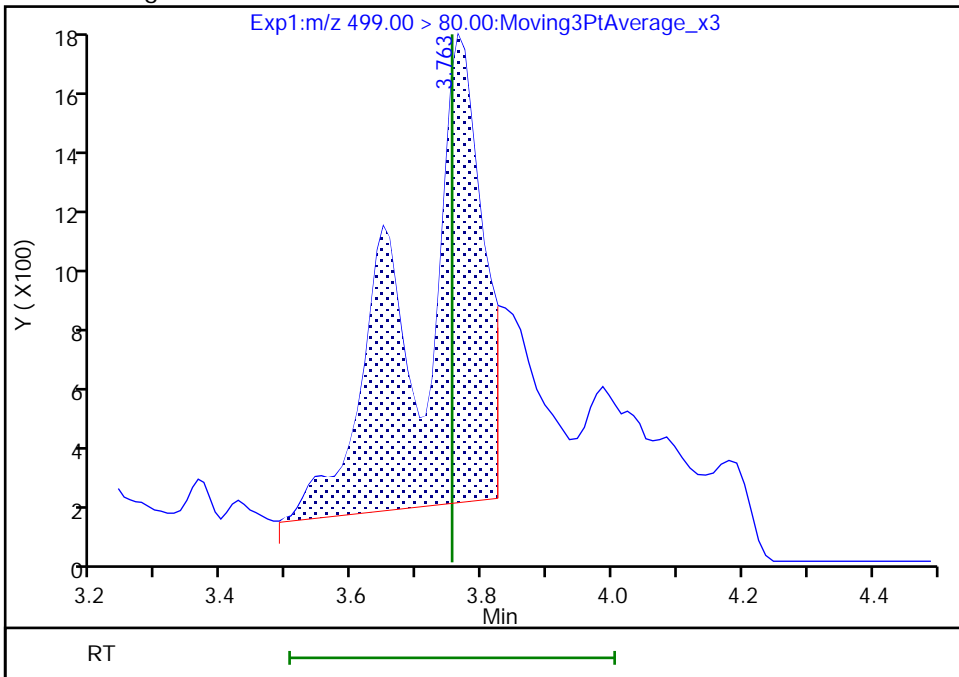
RT: 3.76
Area: 23322
Amount: 0.045801
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 11602
Amount: 0.022784
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:22:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

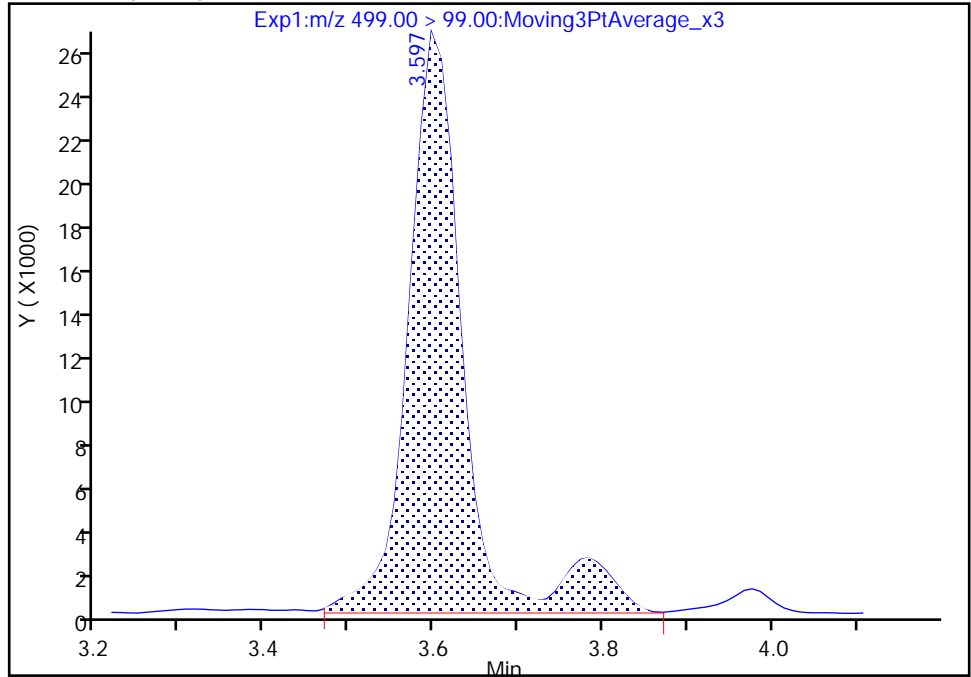
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

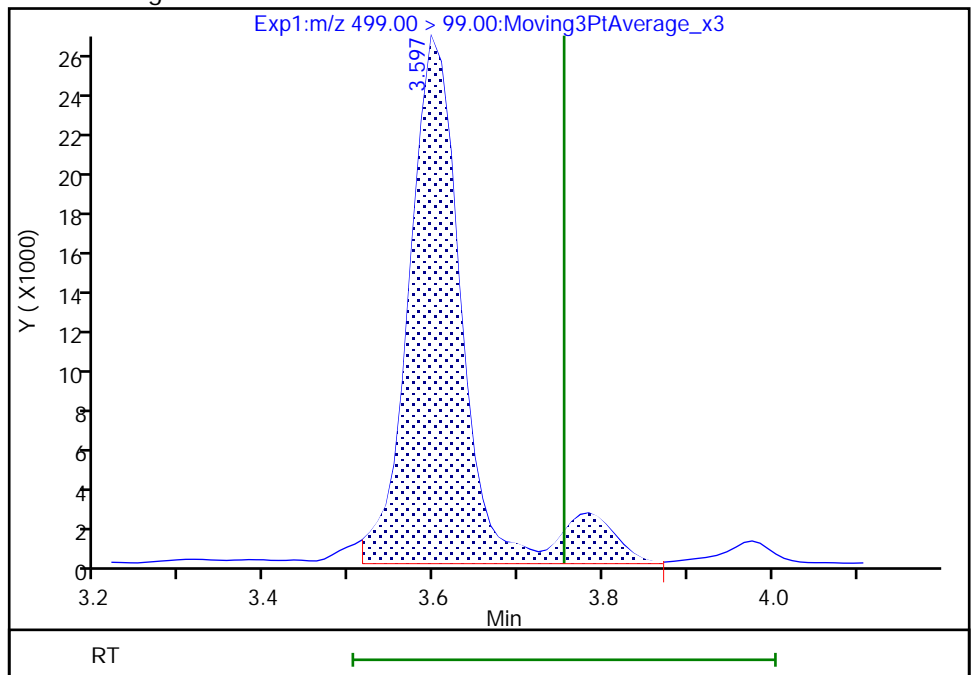
RT: 3.60
Area: 122235
Amount: 0.045801
Amount Units: ng/ml

Processing Integration Results



RT: 3.60
Area: 120232
Amount: 0.022784
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:22:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

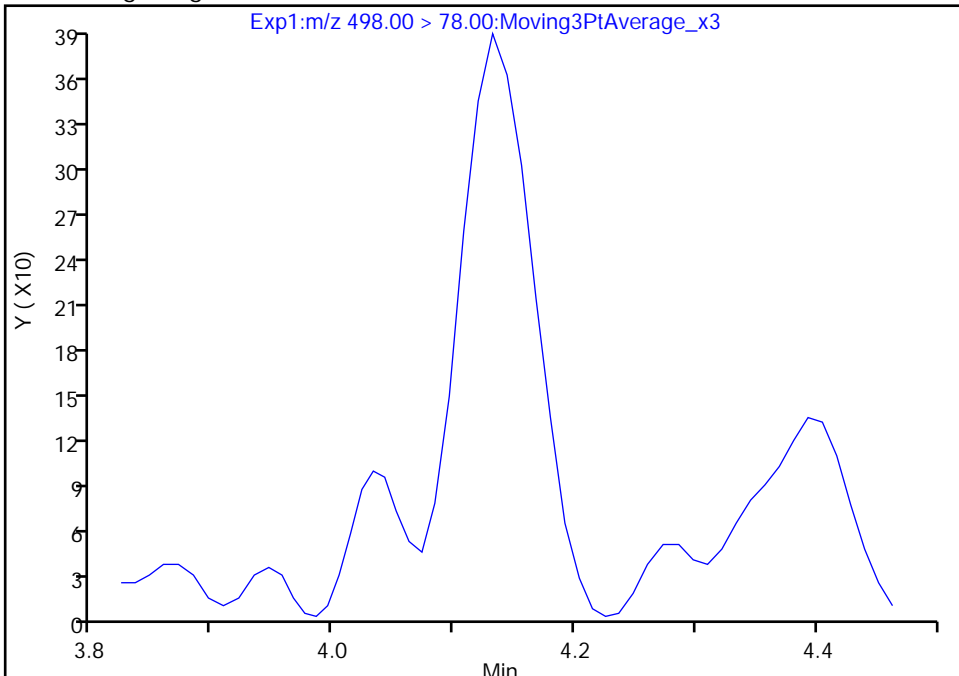
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Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

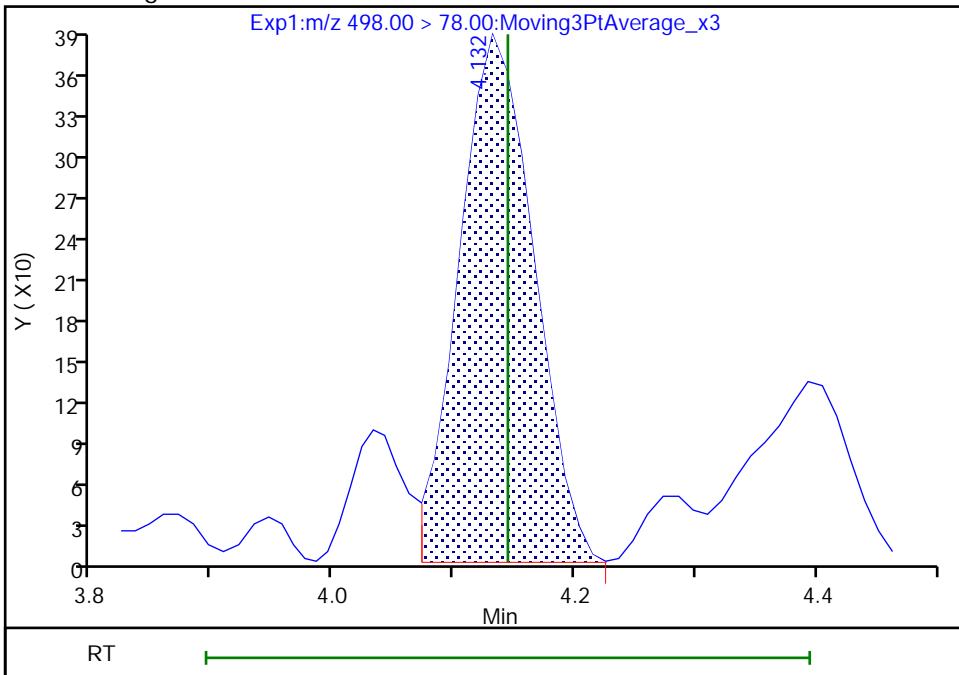
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 1636
Amount: 0.002180
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 17:23:44
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

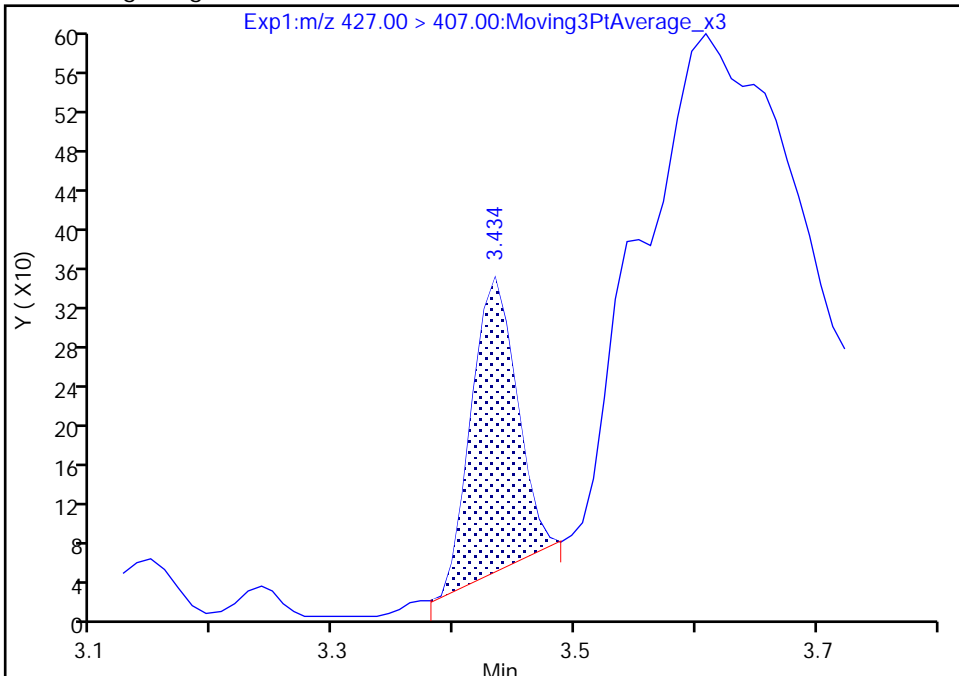
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A14.d
Injection Date: 26-Jan-2023 21:32:34 Instrument ID: LC812
Lims ID: 460-273105-A-6-A Lab Sample ID: 200-273105-6
Client ID: DUP_09_011723P
Operator ID: LC812user ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

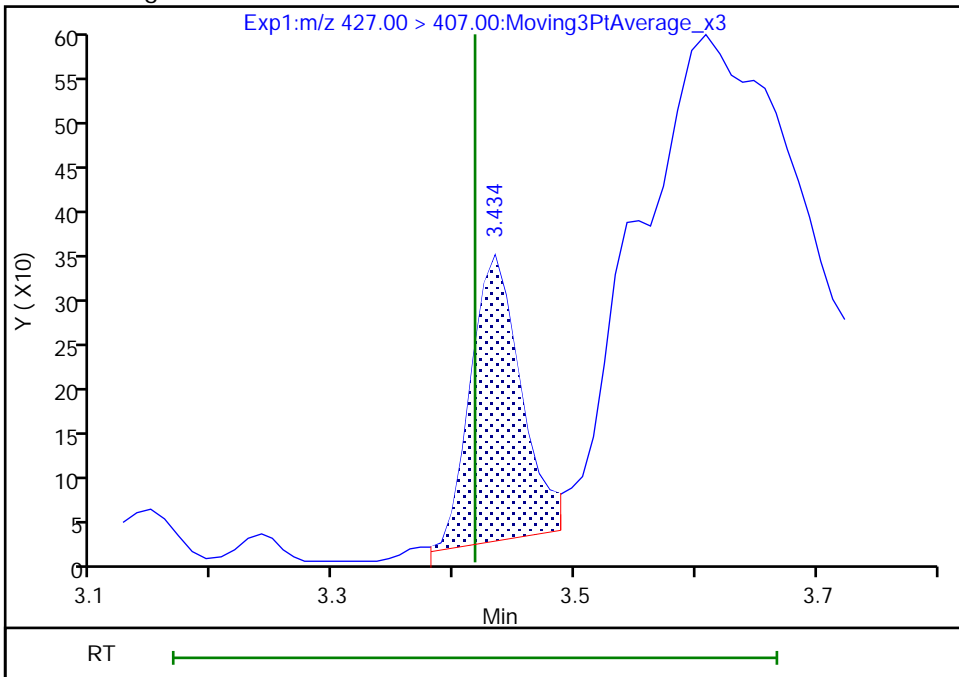
RT: 3.43
Area: 789
Amount: 0.002100
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 928
Amount: 0.002471
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 17:21:12
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.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

Calibration Files

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

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

Calibration Files

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

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

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

Lab Name: Eurofins Burlington Job No.: 460-273105-1 Analy Batch No.: 187441

SDG No.: _____

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

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

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

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

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Jan-2023 17:43:06 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-005 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:10 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

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

Ratio Calibration: Average of Initial Calibration

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

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

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

Ratio Calibration: Average of Initial Calibration

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

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC1_00014

Amount Added: 100.00

Units: uL

Eurofins Burlington

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

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

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

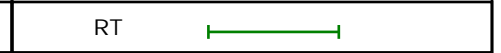
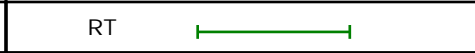
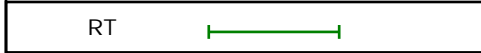
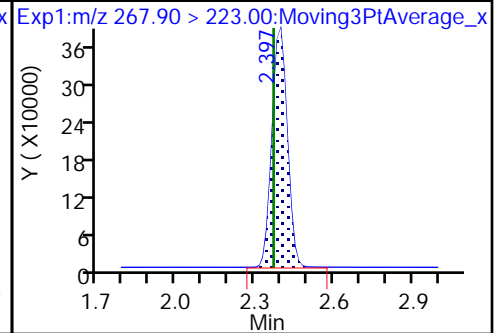
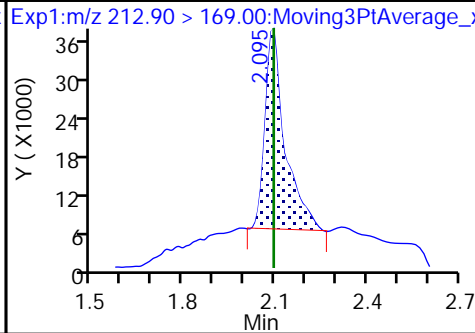
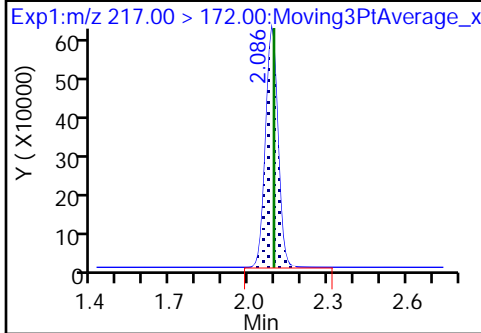
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

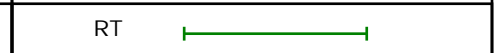
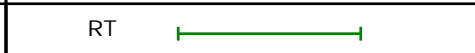
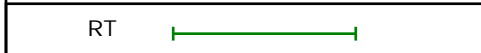
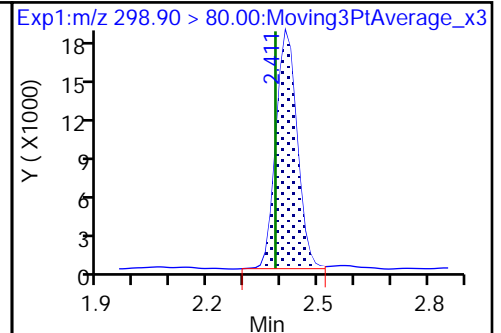
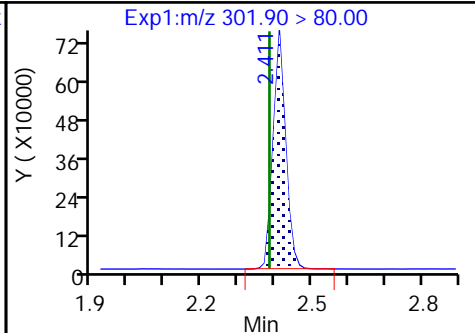
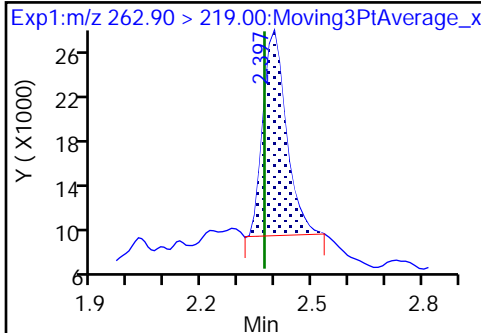
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

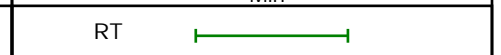
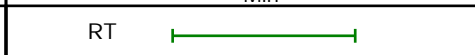
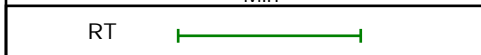
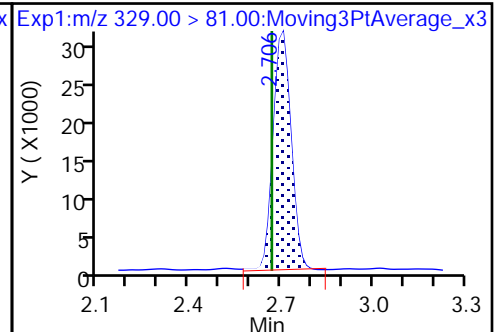
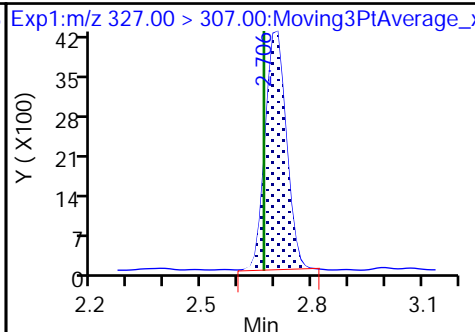
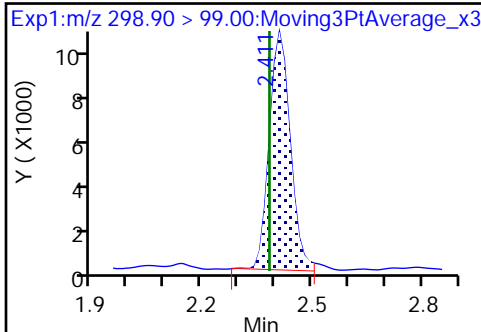
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

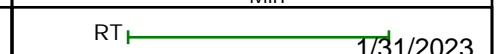
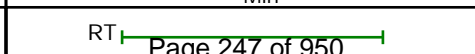
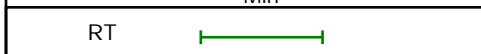
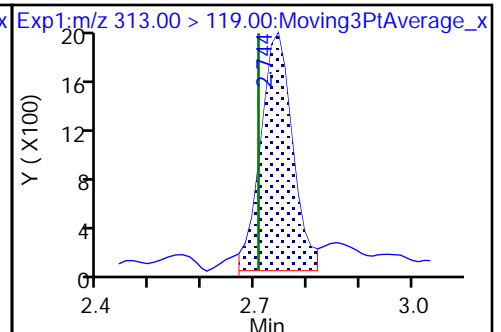
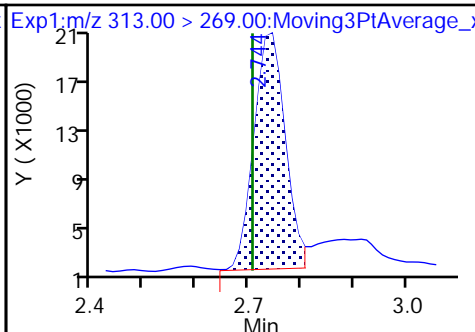
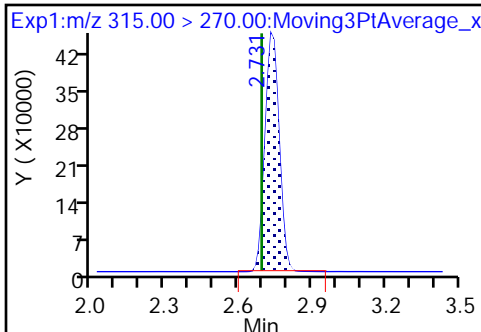
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

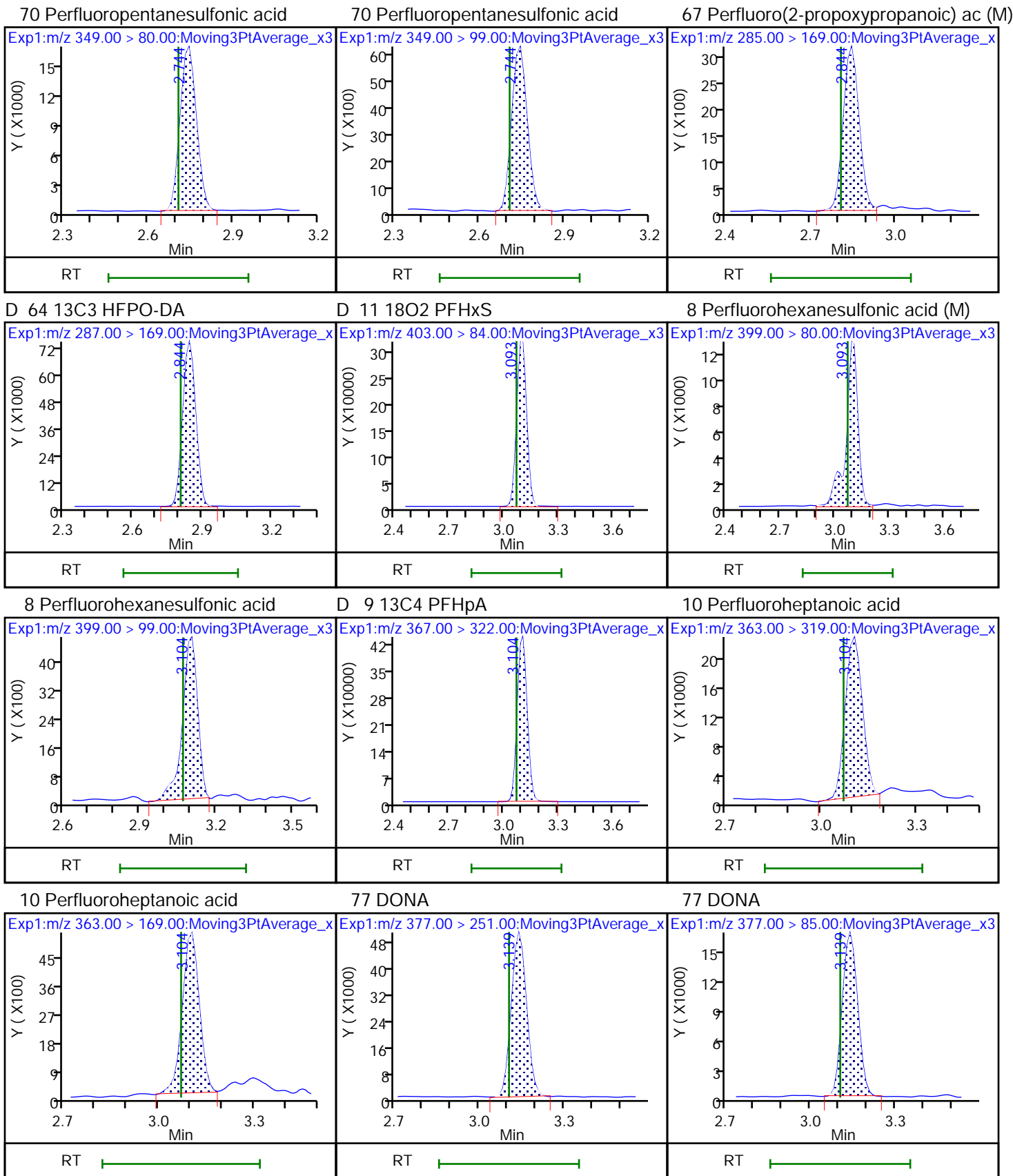


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

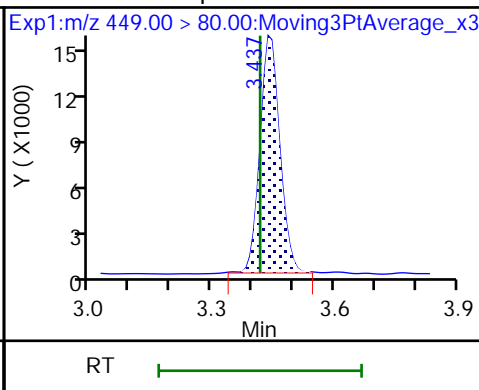
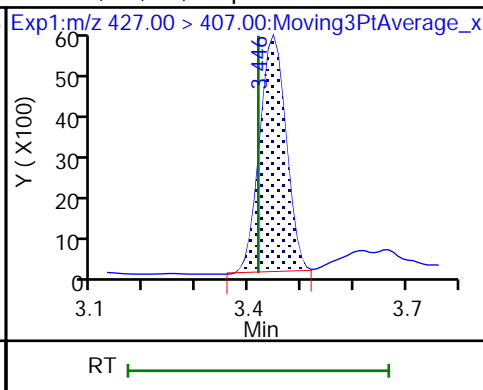
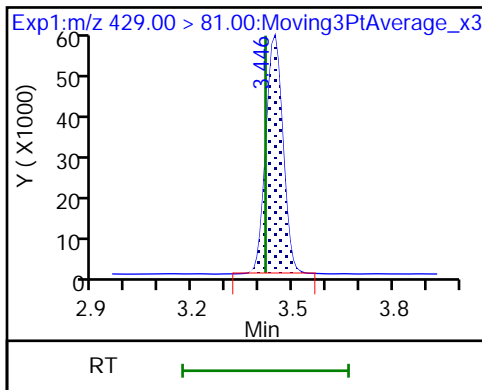




D 12 M2-6:2 FTS

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

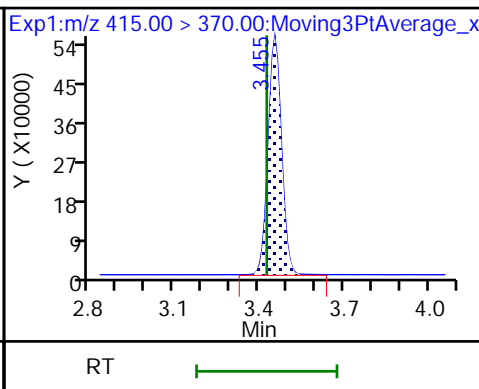
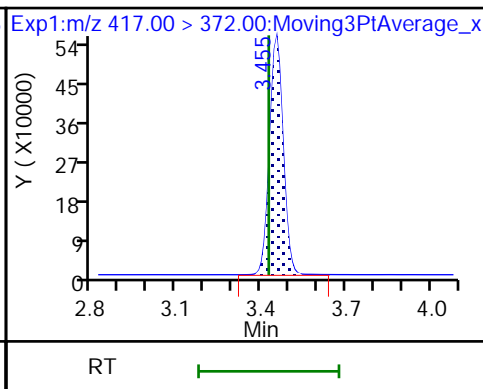
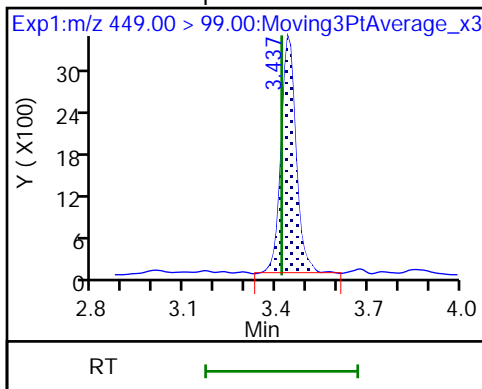
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

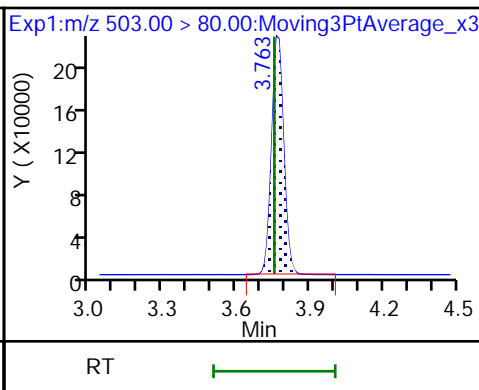
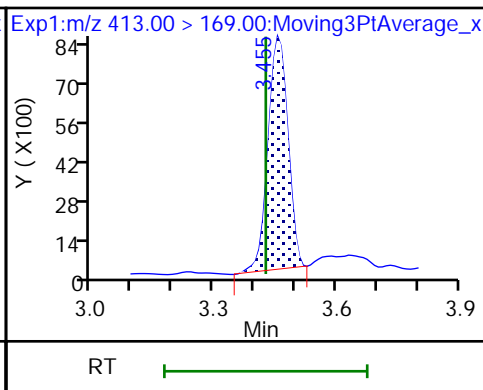
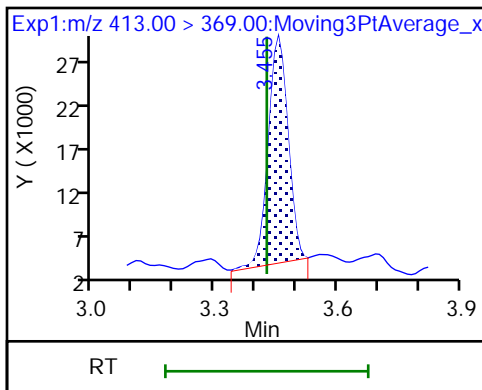
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

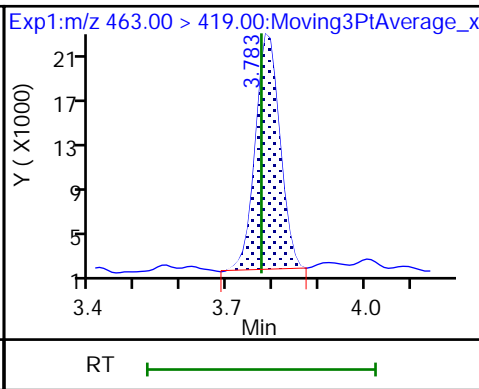
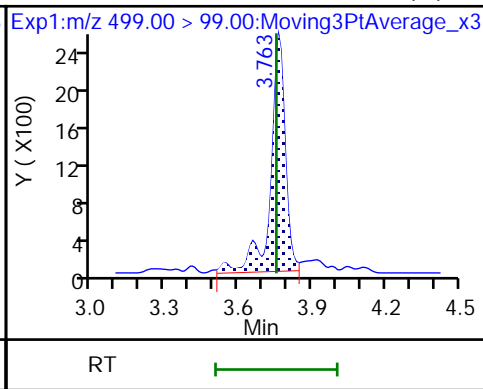
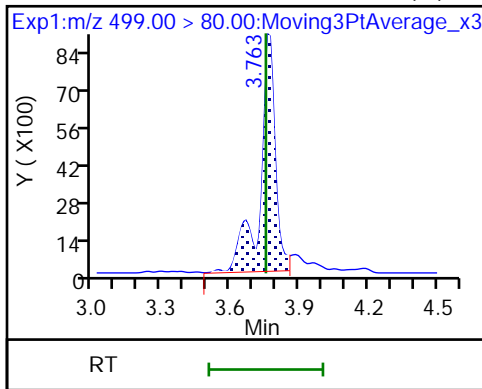
D 18 13C4 PFOS

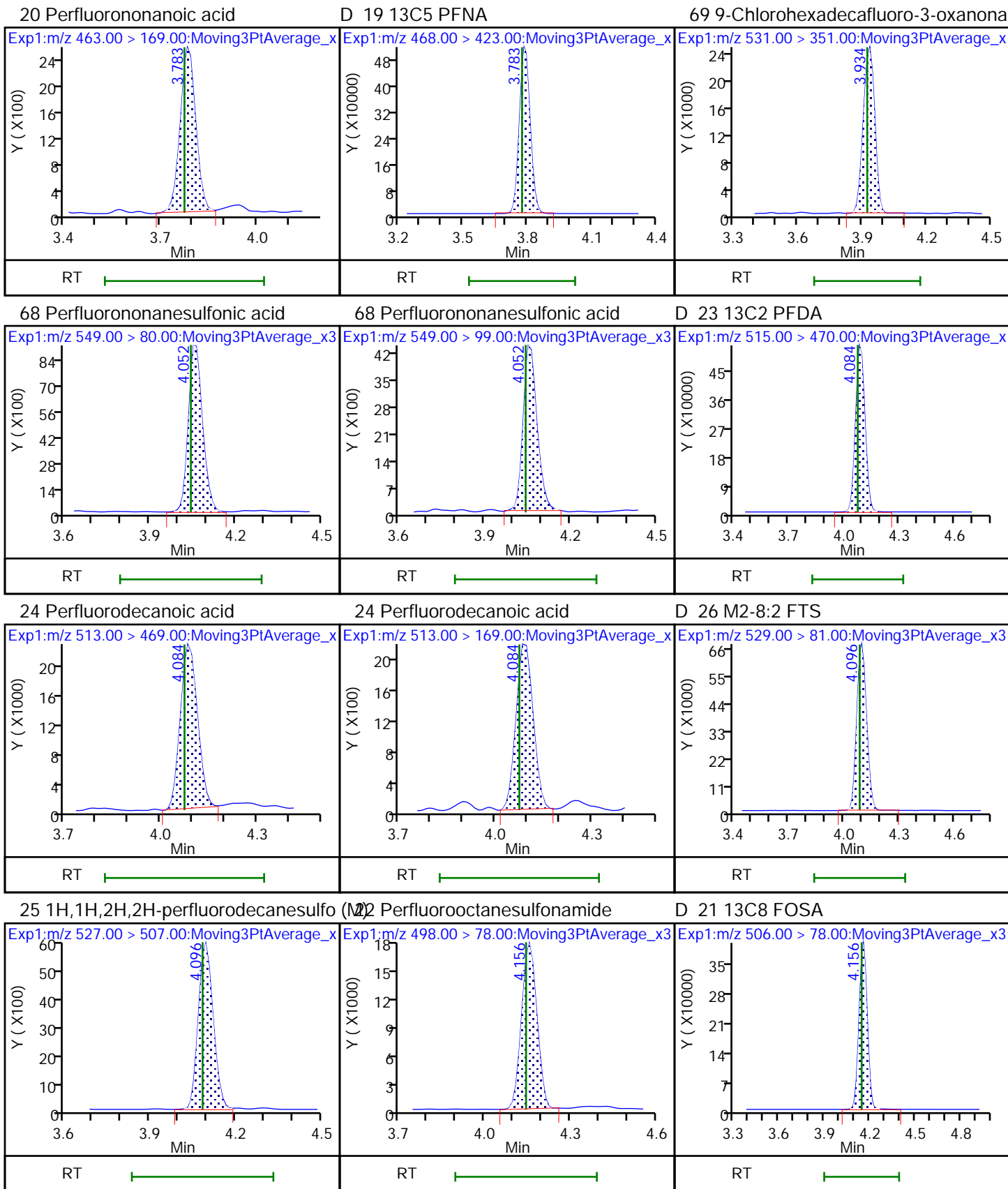


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

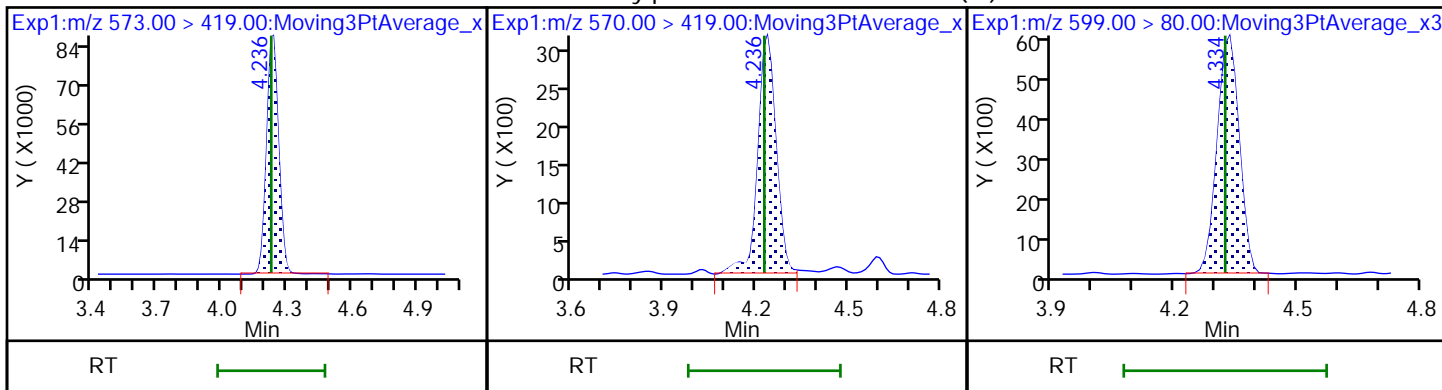
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

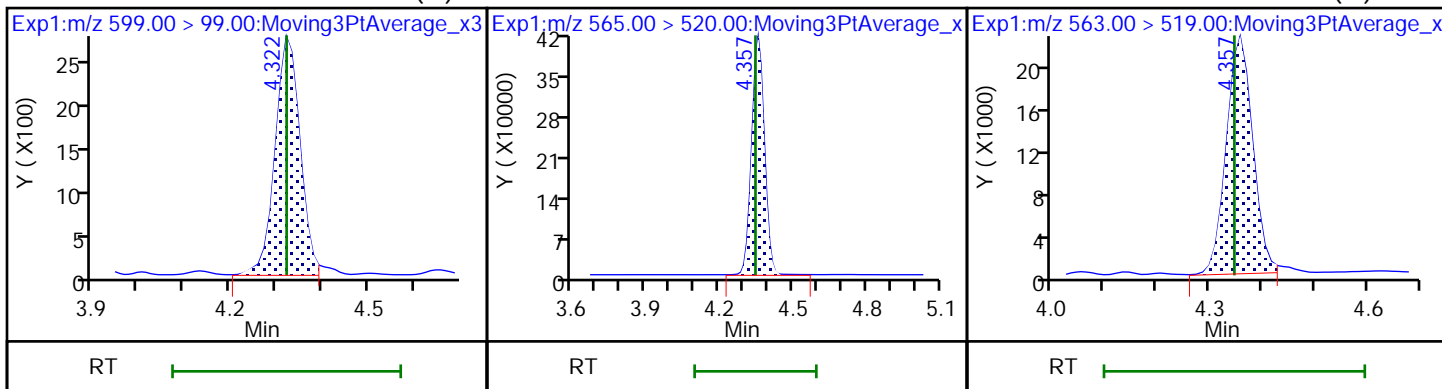
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

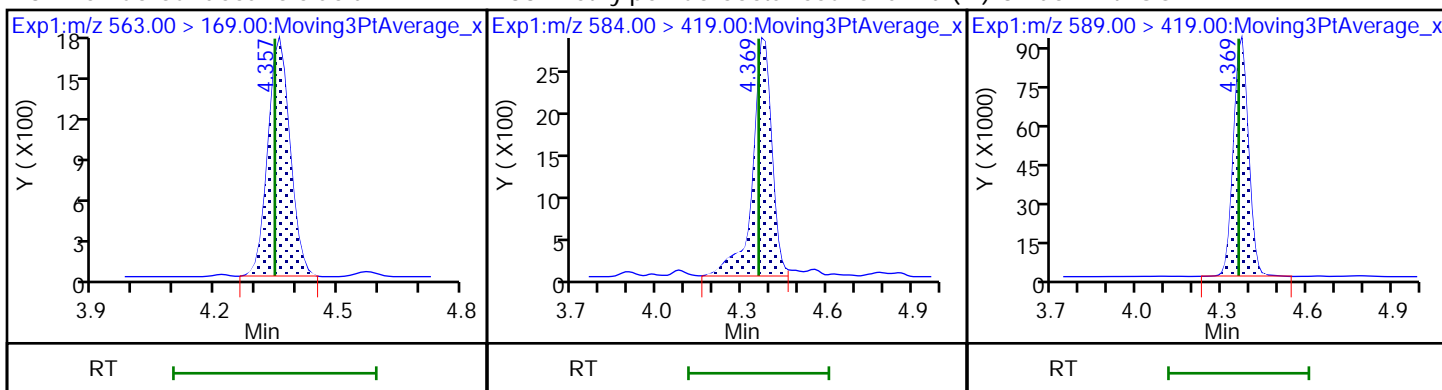
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (N)

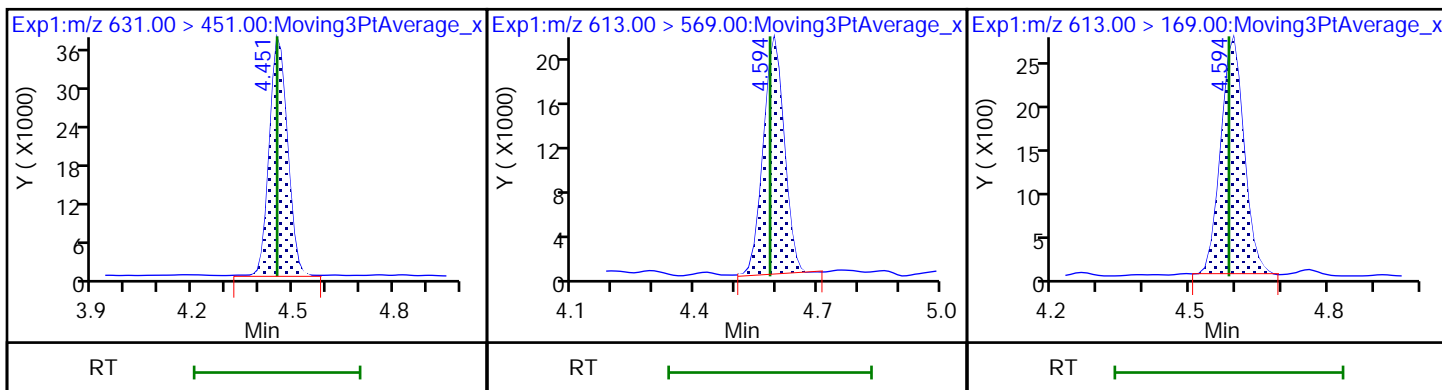
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

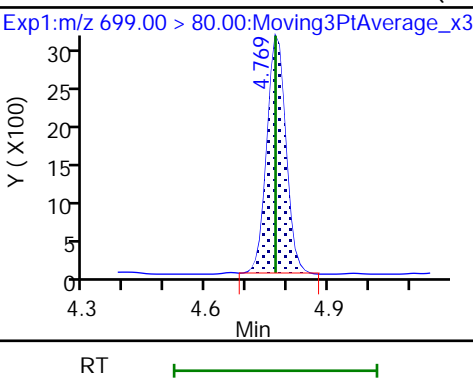
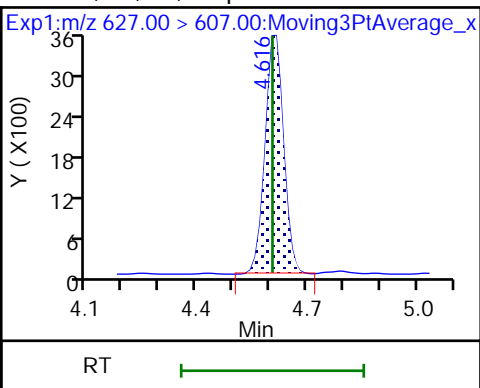
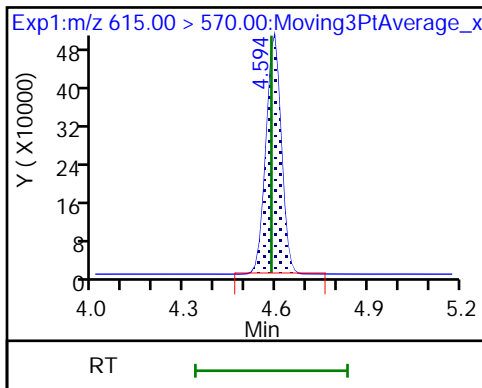
37 Perfluorododecanoic acid



D 36 13C2 PFDaA

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

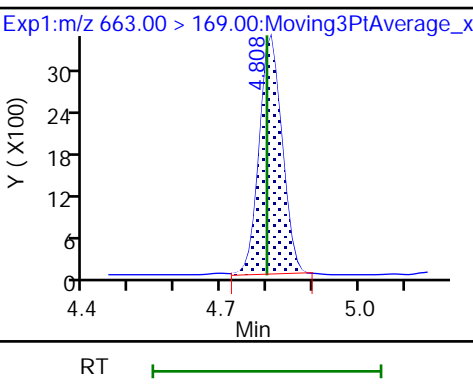
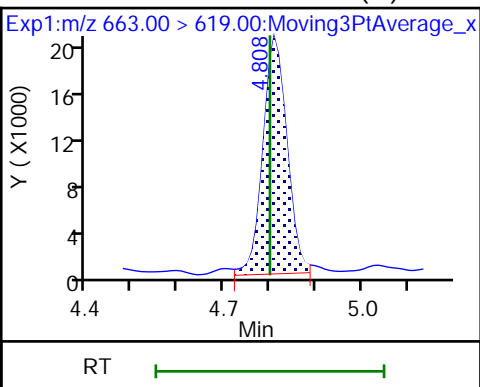
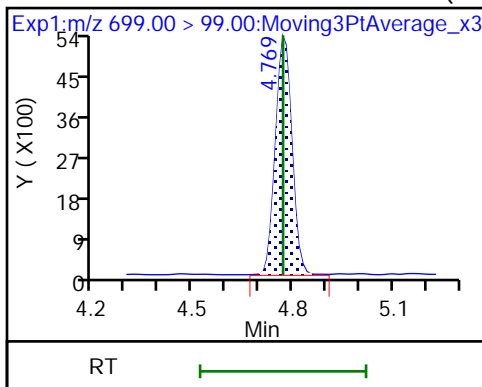
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

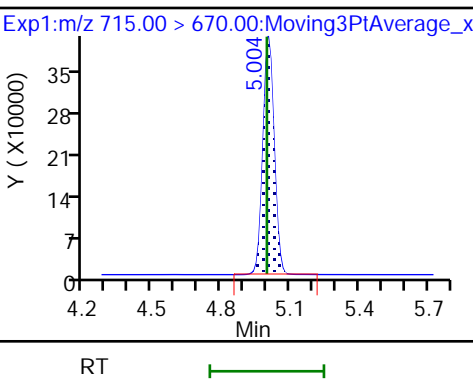
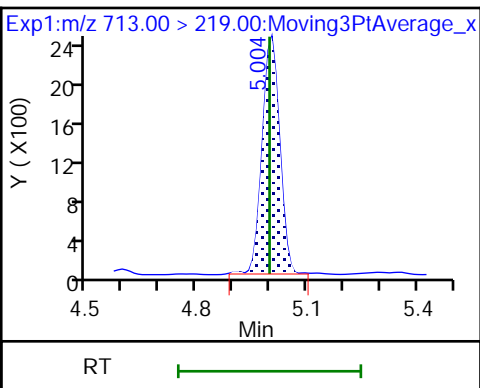
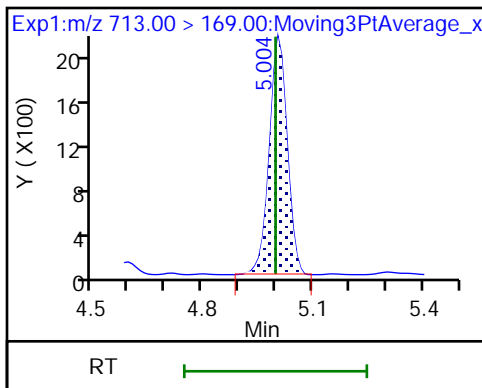
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

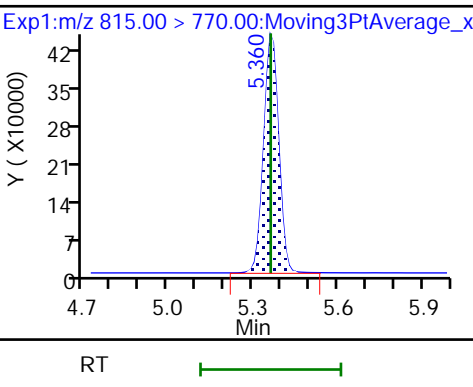
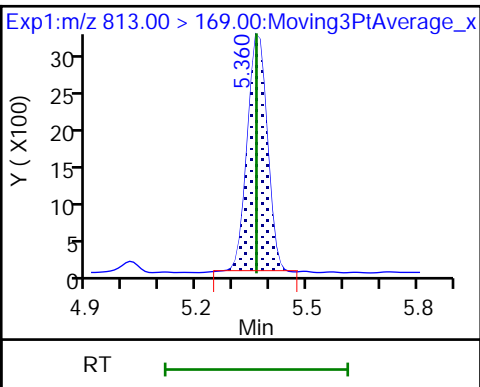
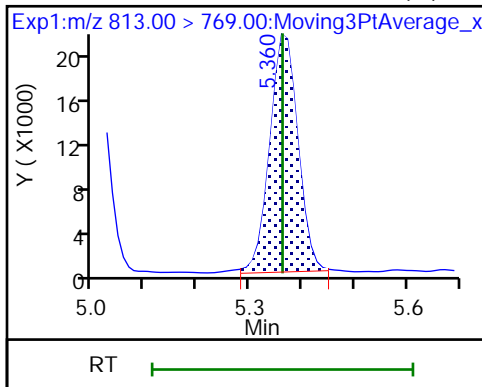
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

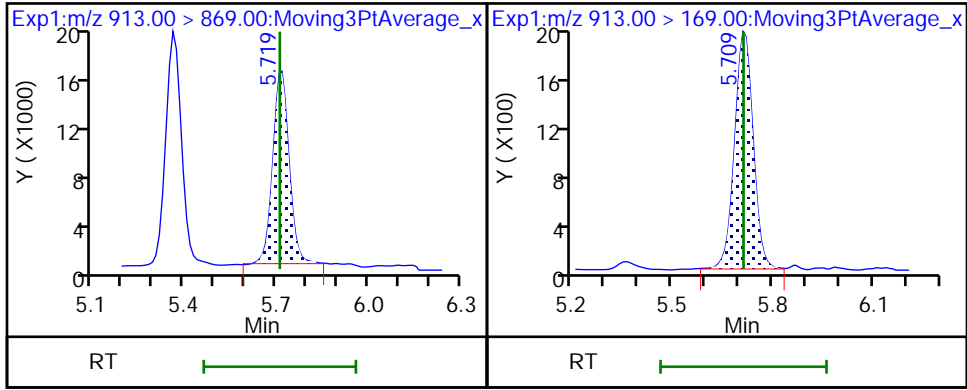
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

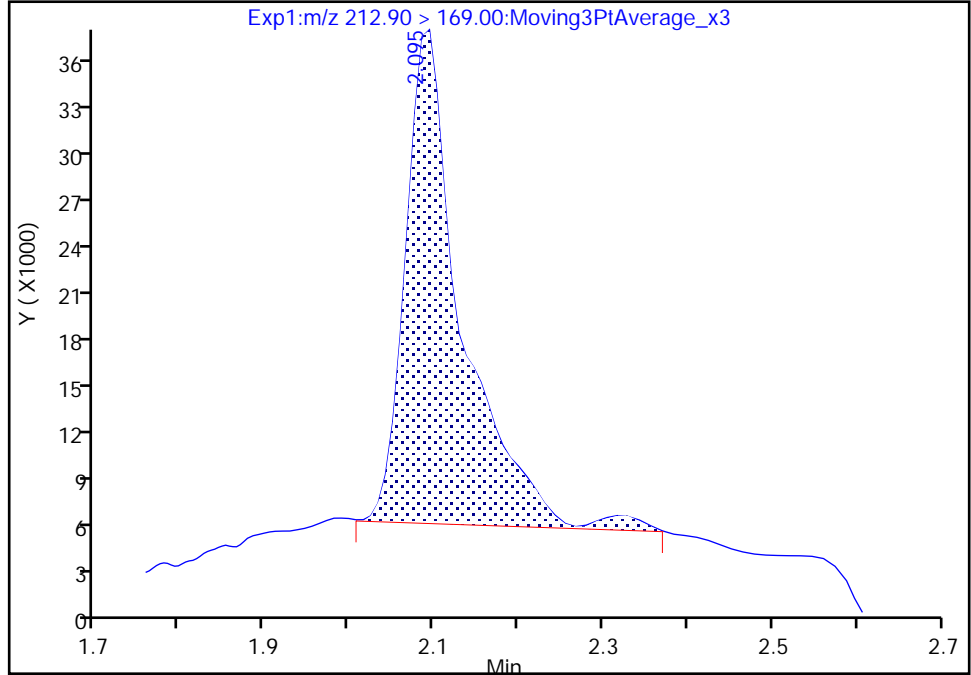
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

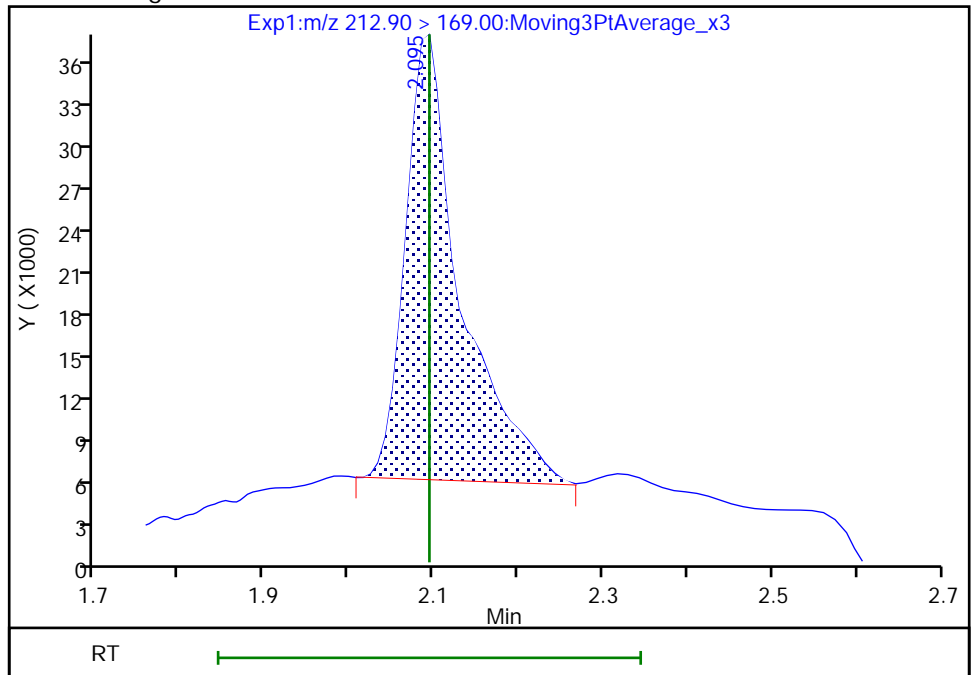
RT: 2.09
Area: 145714
Amount: 0.049247
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

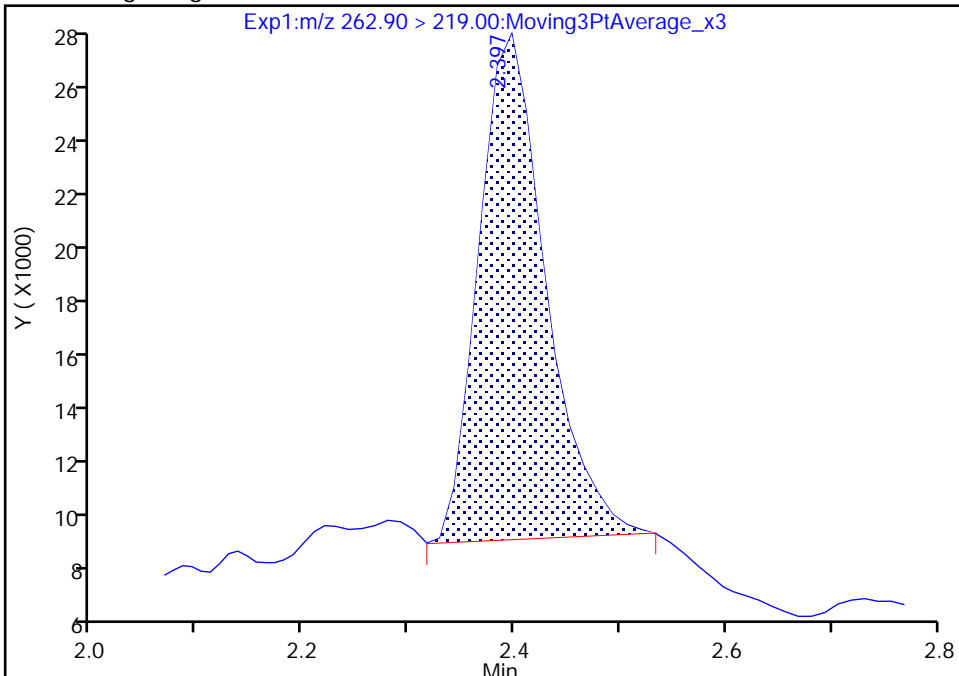
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

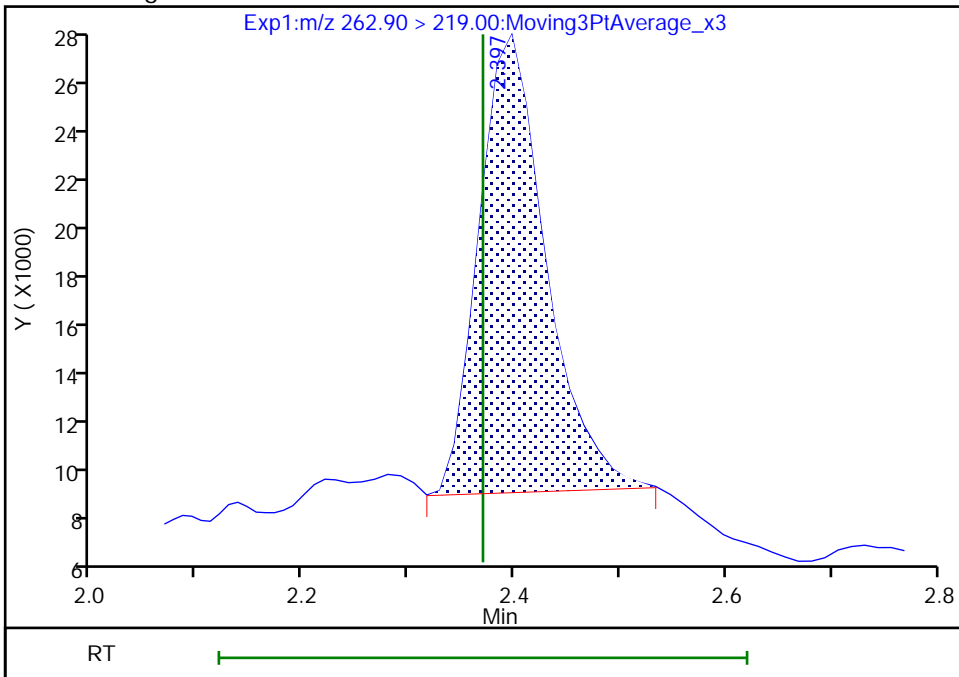
RT: 2.40
Area: 79825
Amount: 0.056114
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

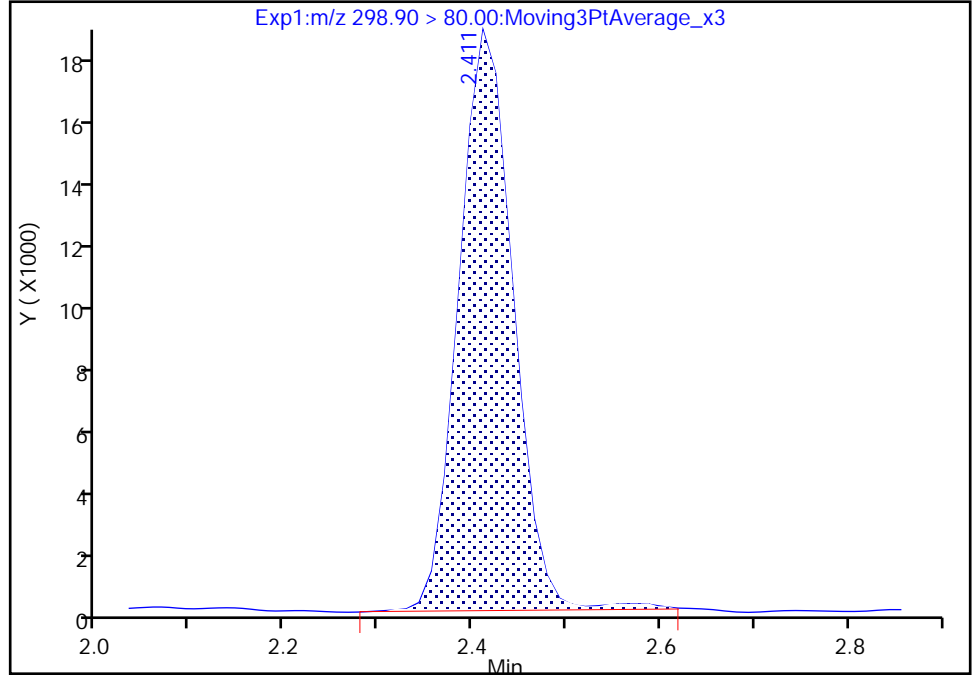
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

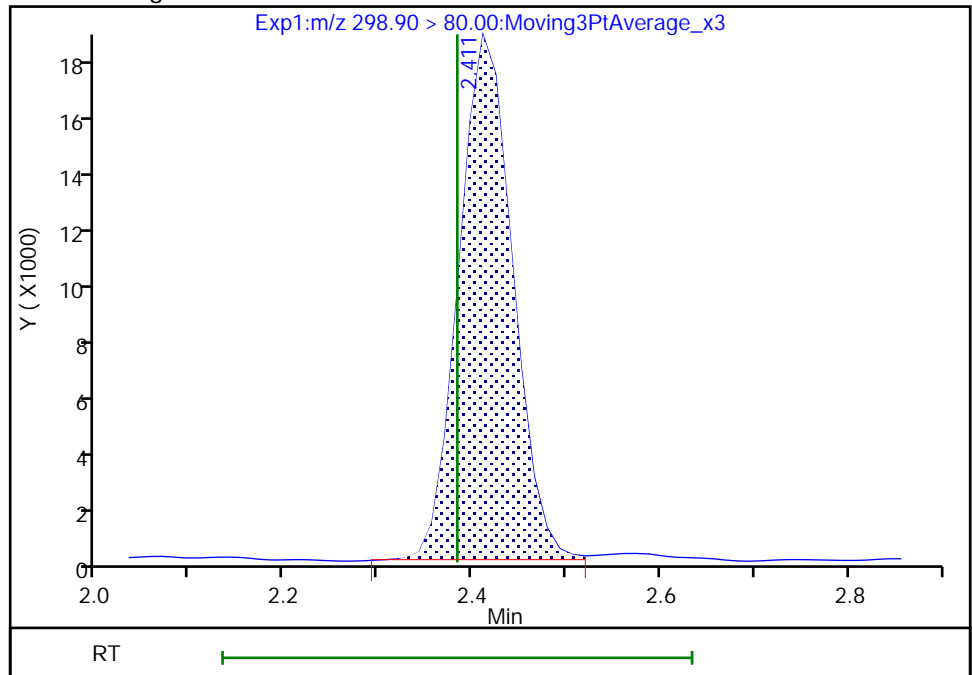
RT: 2.41
Area: 74663
Amount: 0.045263
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

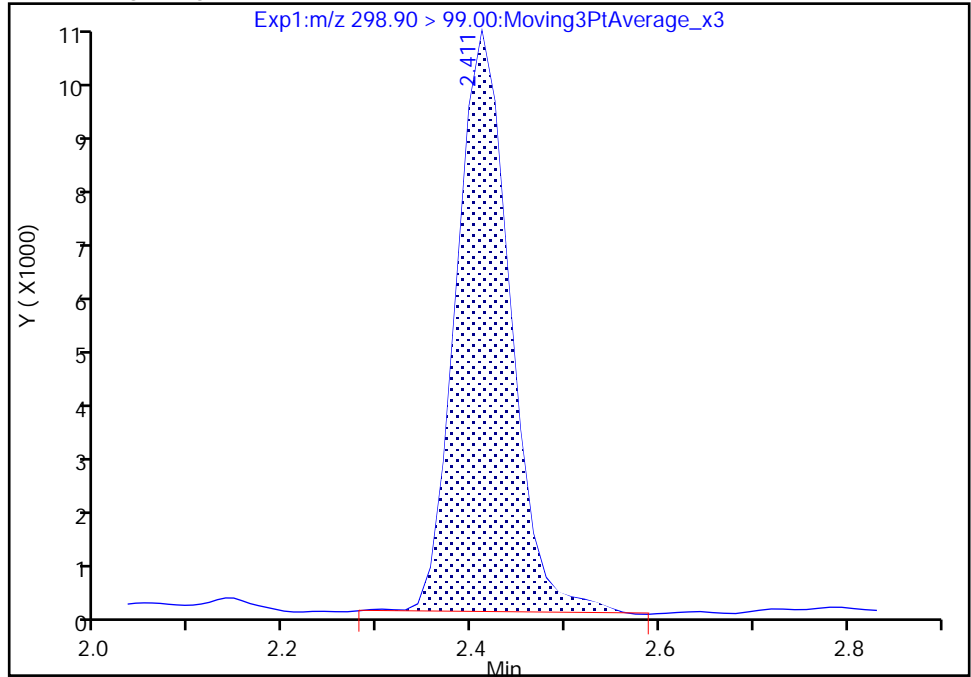
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

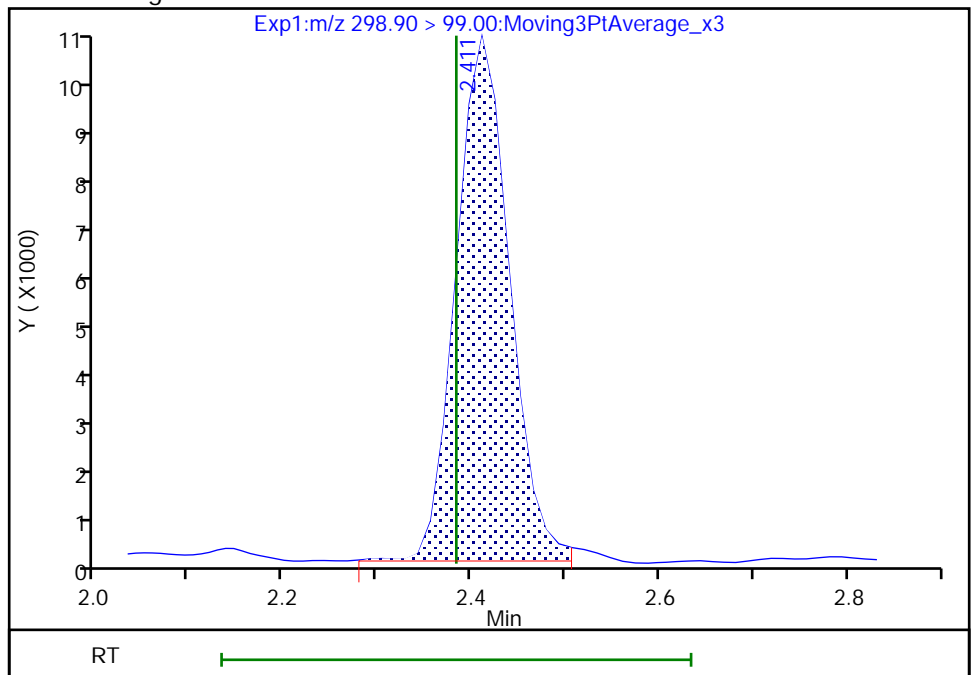
RT: 2.41
Area: 40048
Amount: 0.045263
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

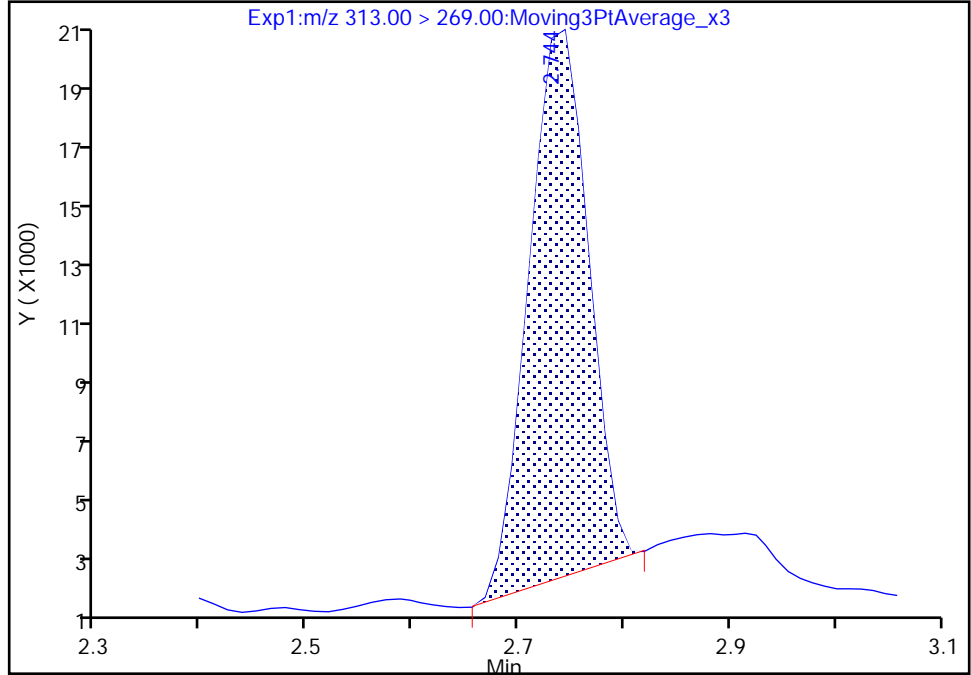
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

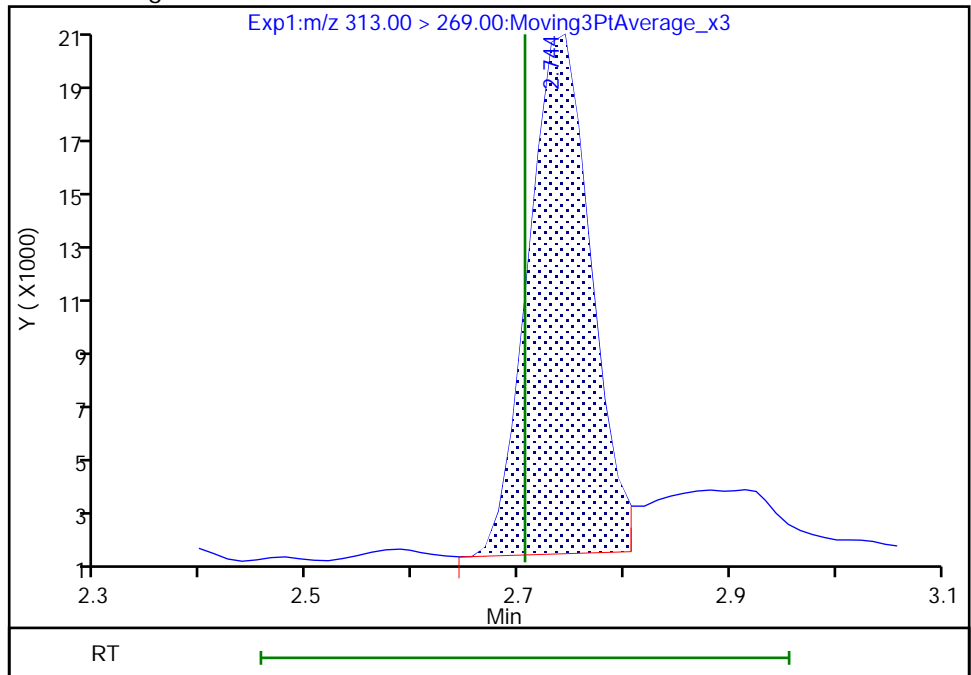
RT: 2.74
Area: 72458
Amount: 0.048221
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

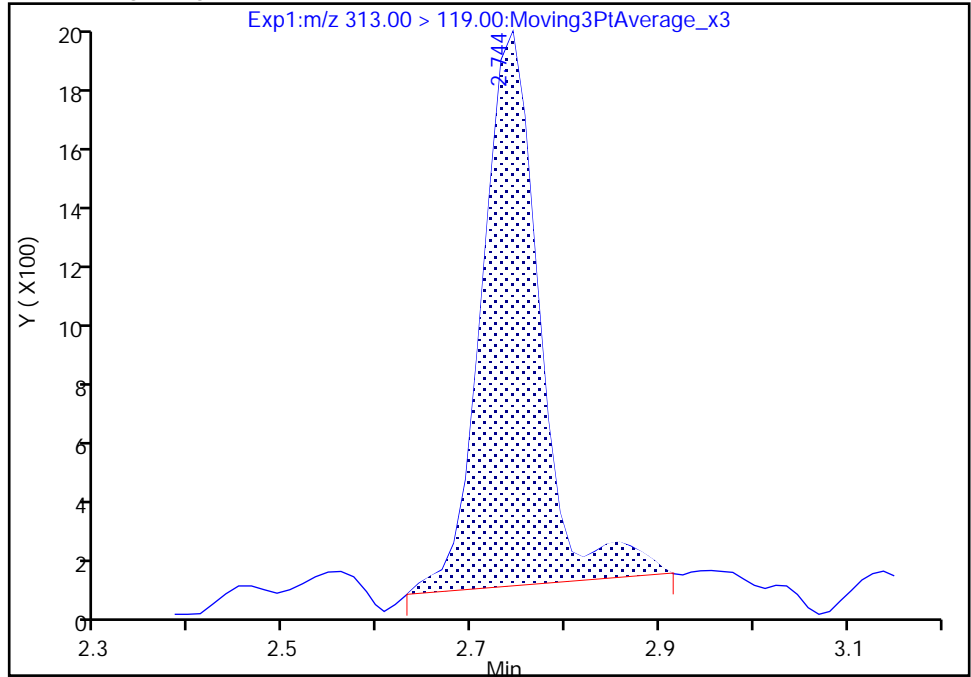
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

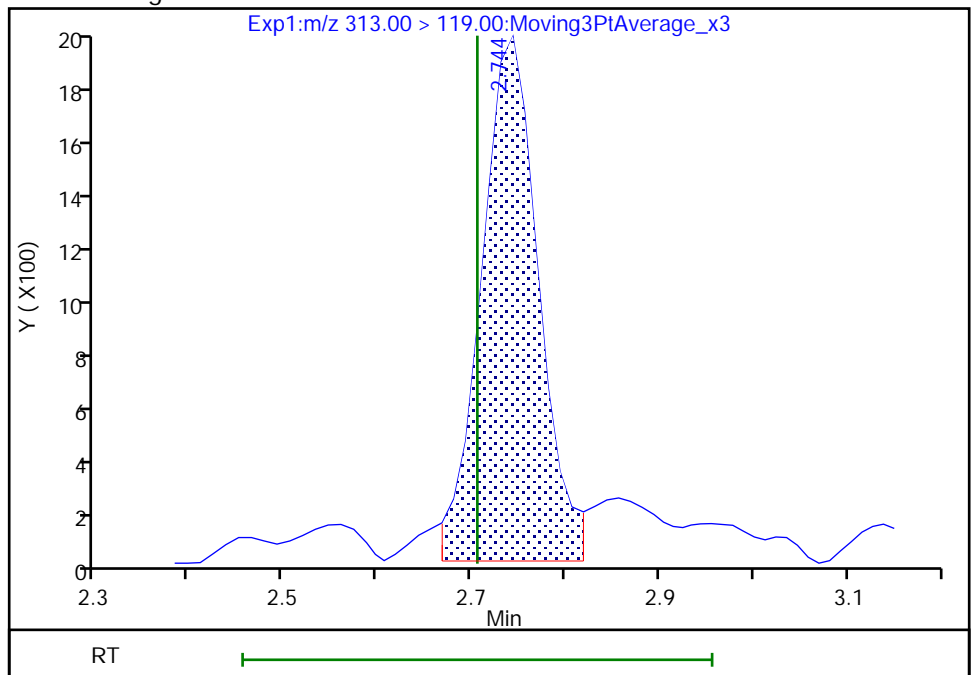
RT: 2.74
Area: 7542
Amount: 0.048221
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

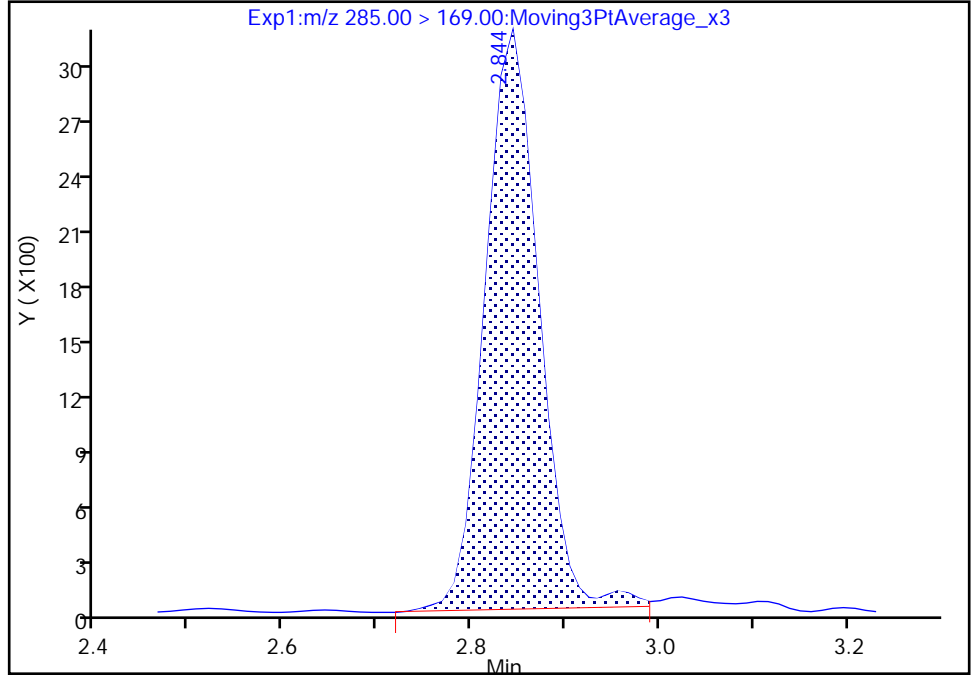
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

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

Signal: 1

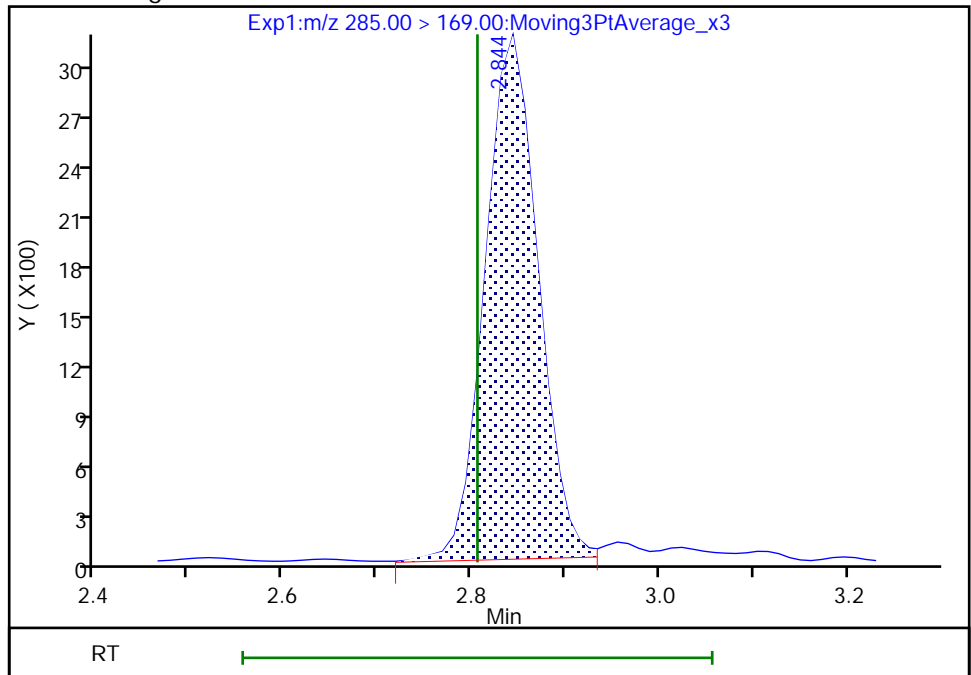
RT: 2.84
Area: 12599
Amount: 0.053498
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

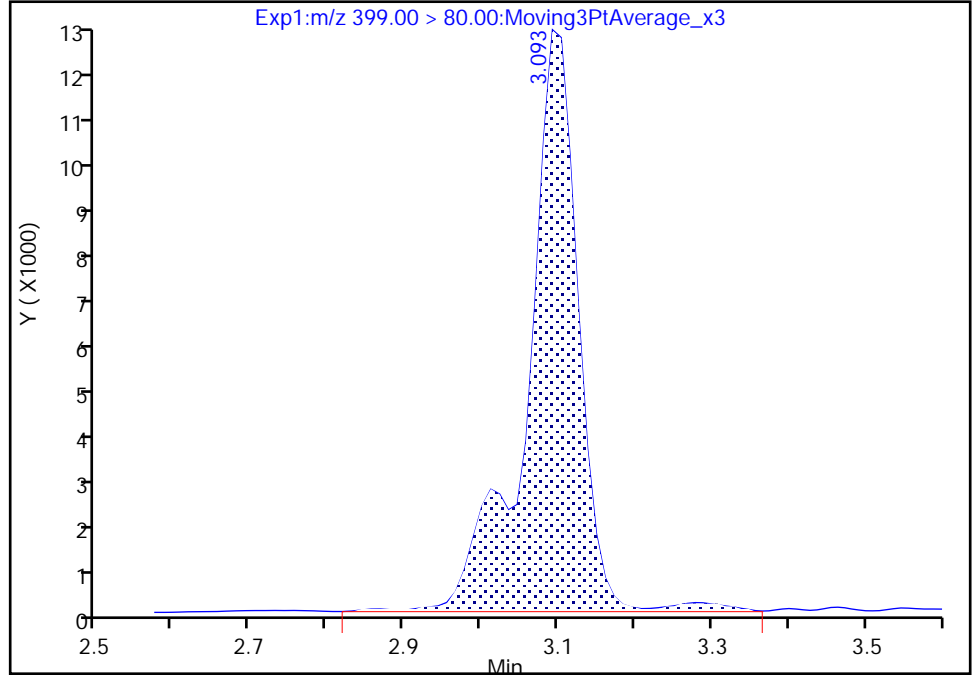
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

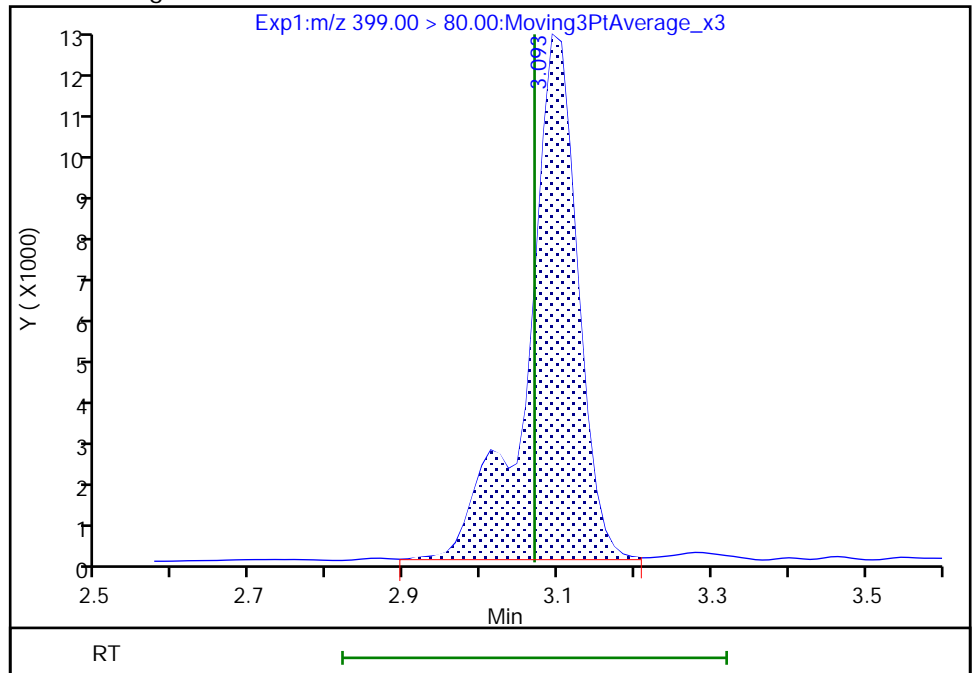
RT: 3.09
Area: 56671
Amount: 0.051477
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

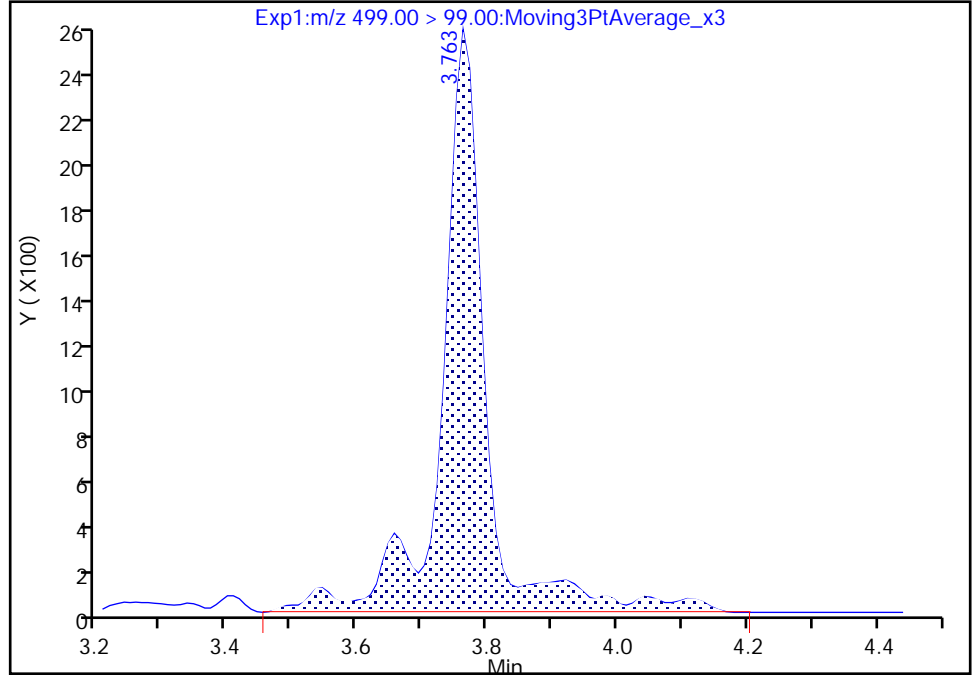
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

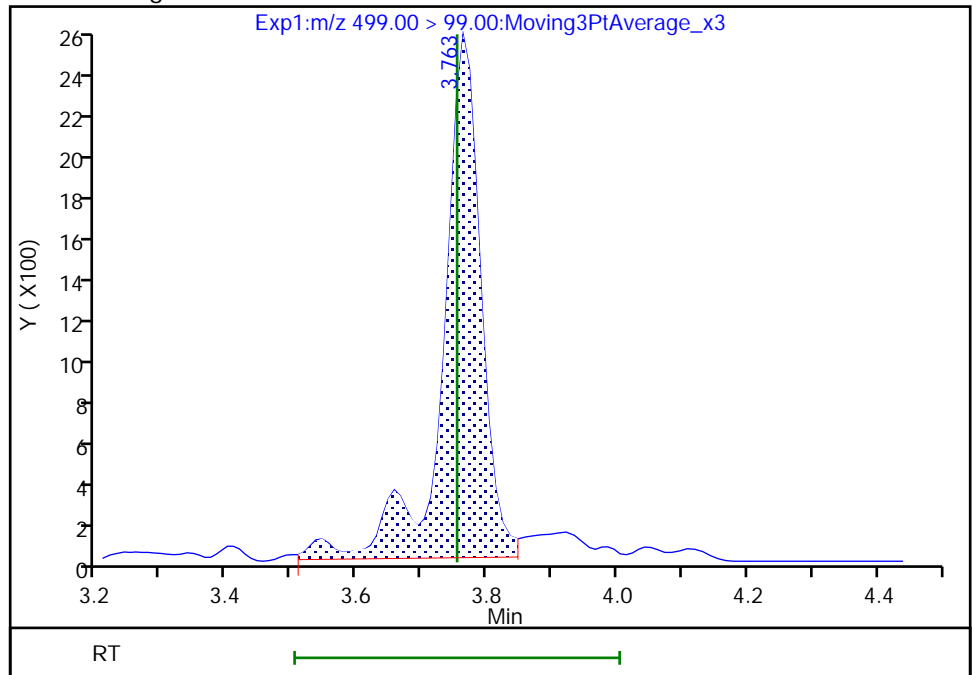
RT: 3.76
Area: 12263
Amount: 0.058426
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

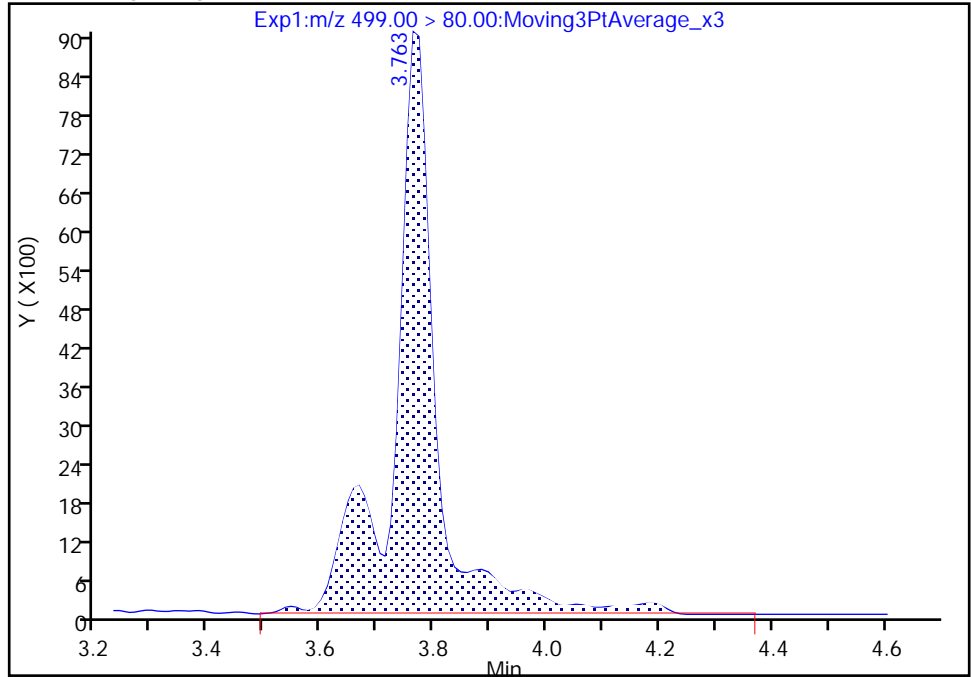
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

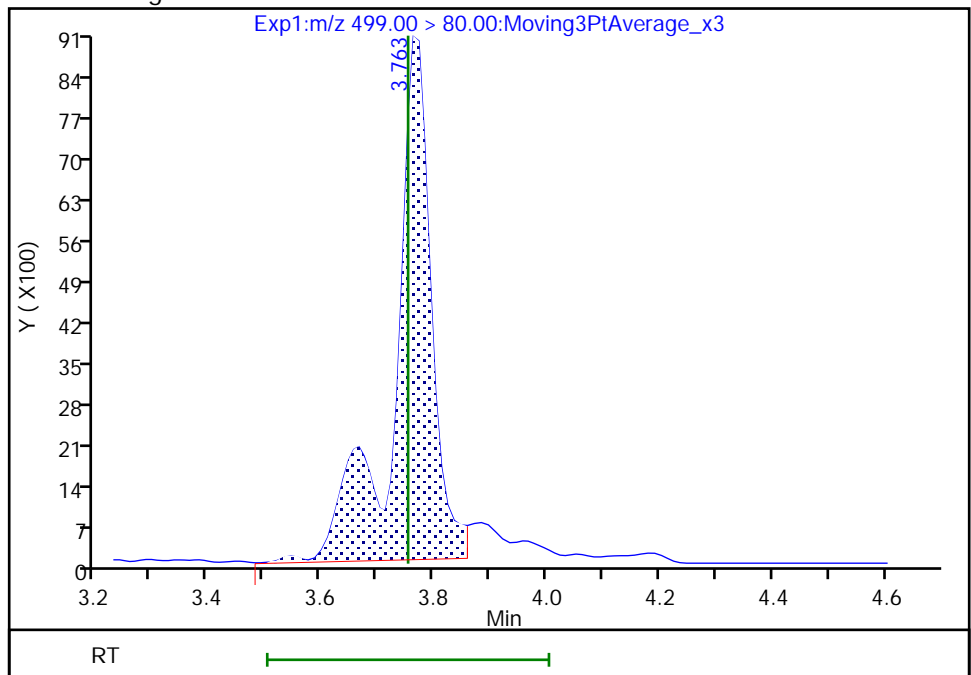
RT: 3.76
Area: 48039
Amount: 0.058426
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

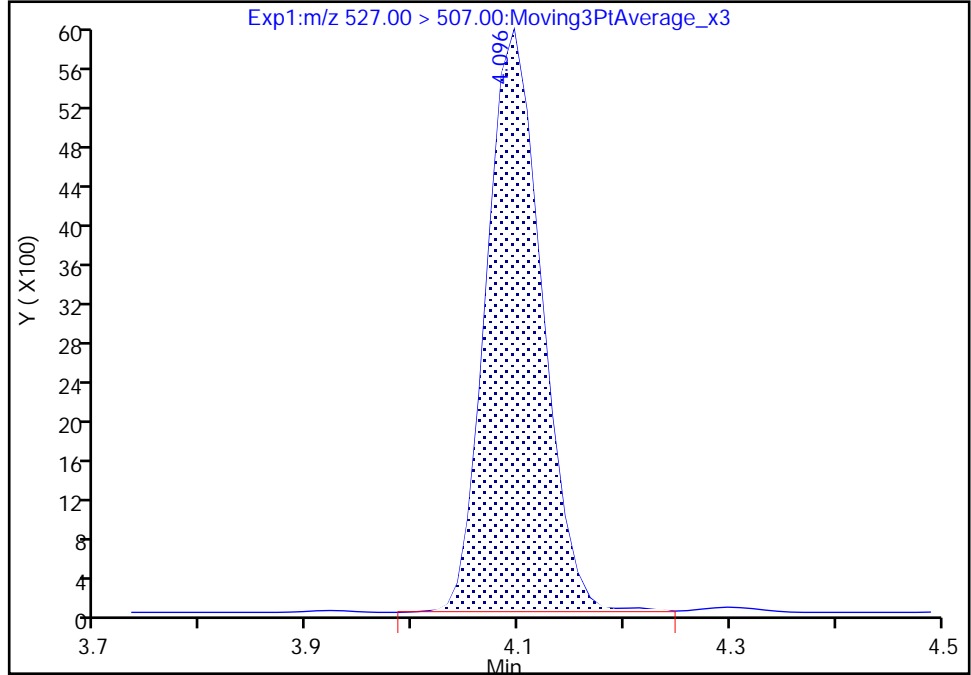
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

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

Signal: 1

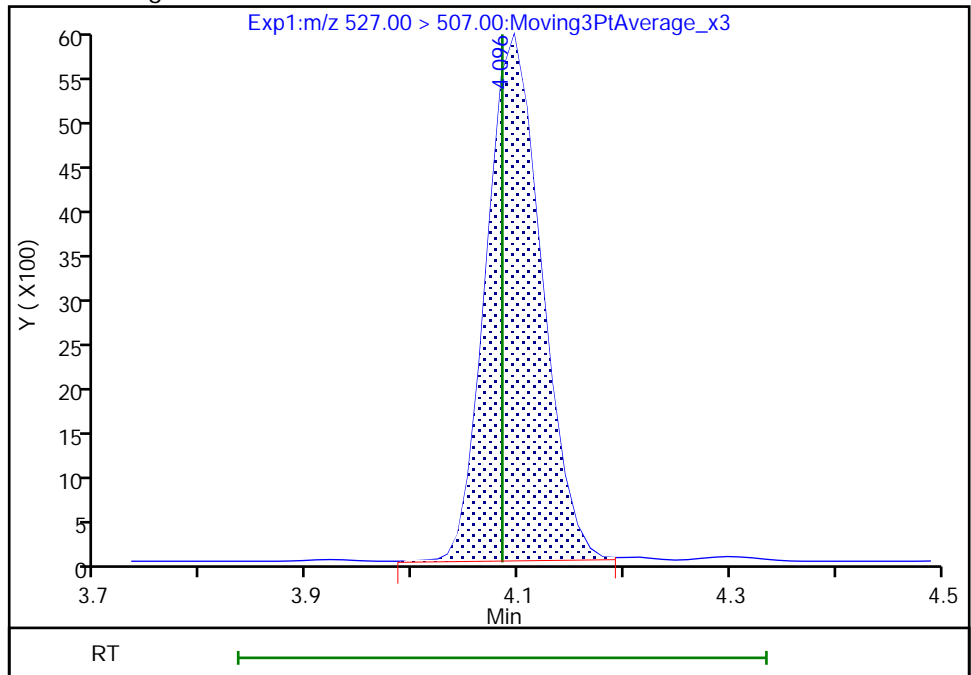
RT: 4.10
Area: 21570
Amount: 0.056301
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

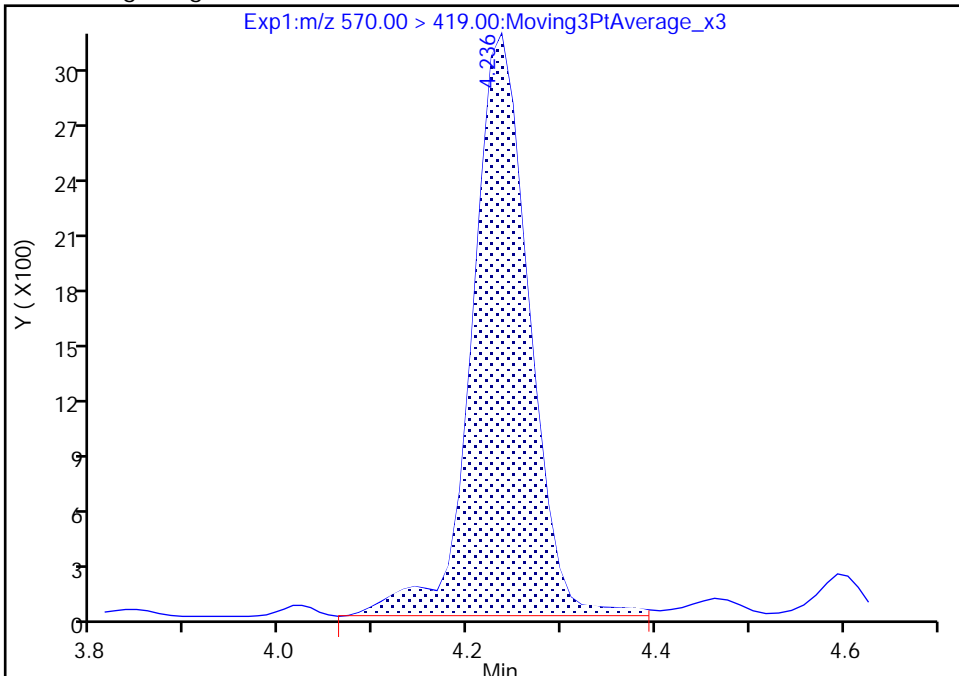
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

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

Signal: 1

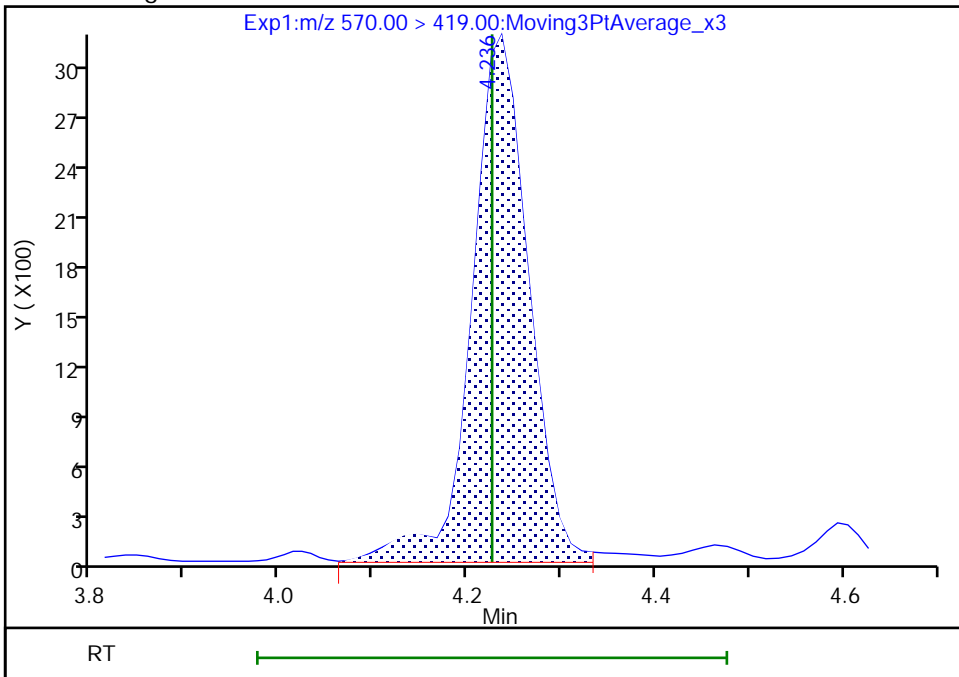
RT: 4.24
Area: 13224
Amount: 0.053606
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

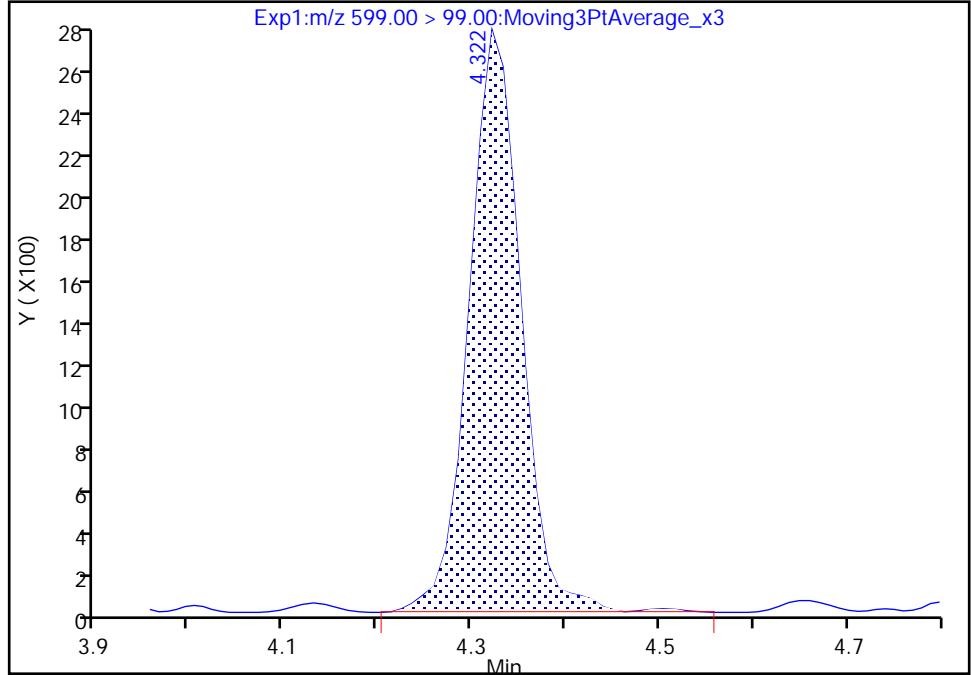
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

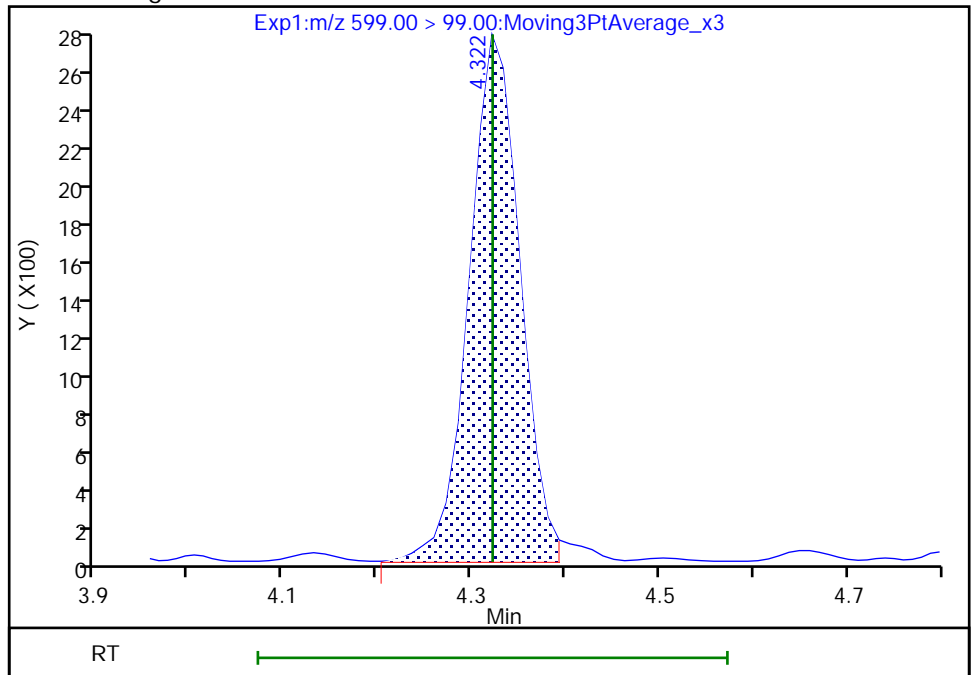
RT: 4.32
Area: 10632
Amount: 0.046907
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

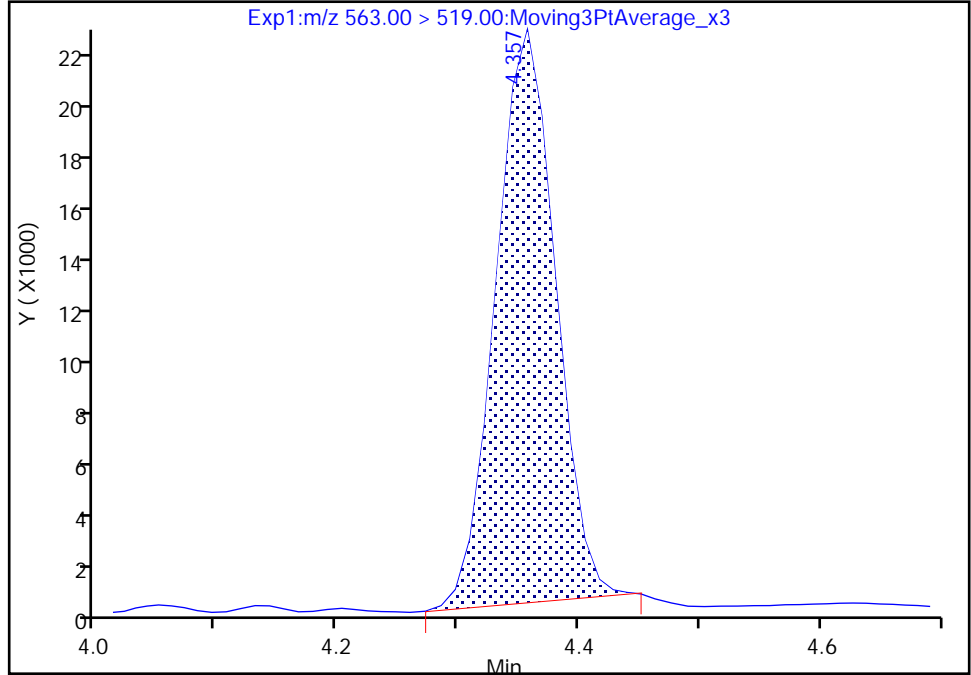
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

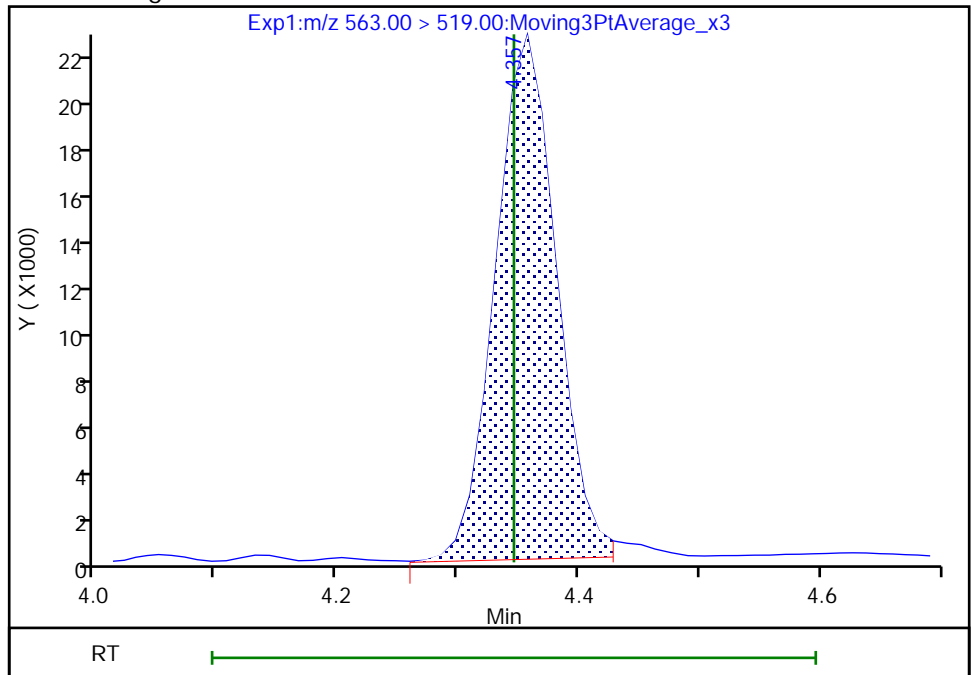
RT: 4.36
Area: 73356
Amount: 0.055770
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

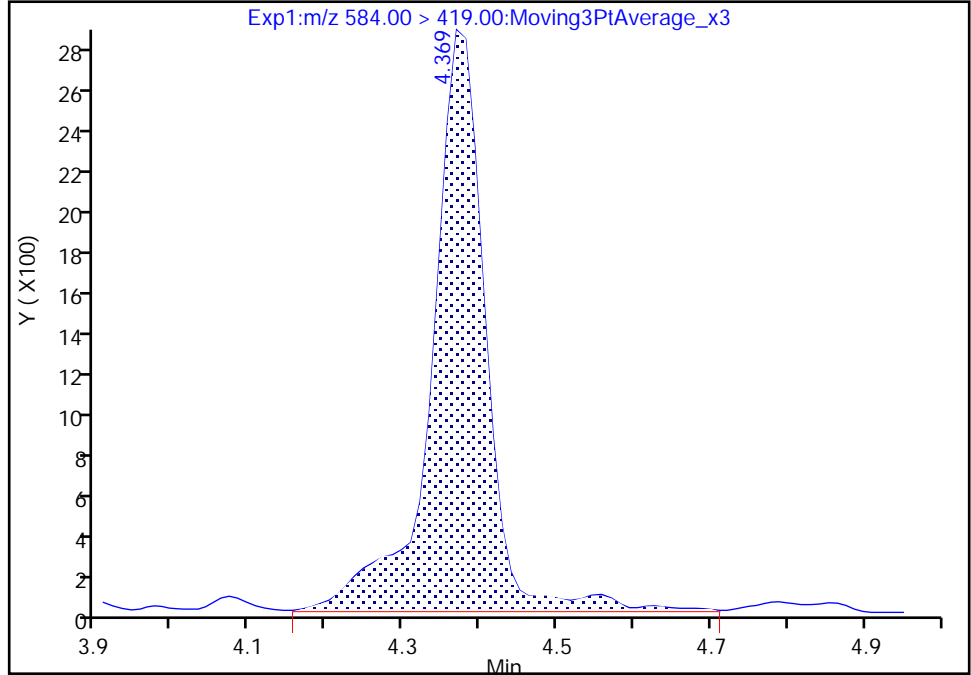
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

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

Signal: 1

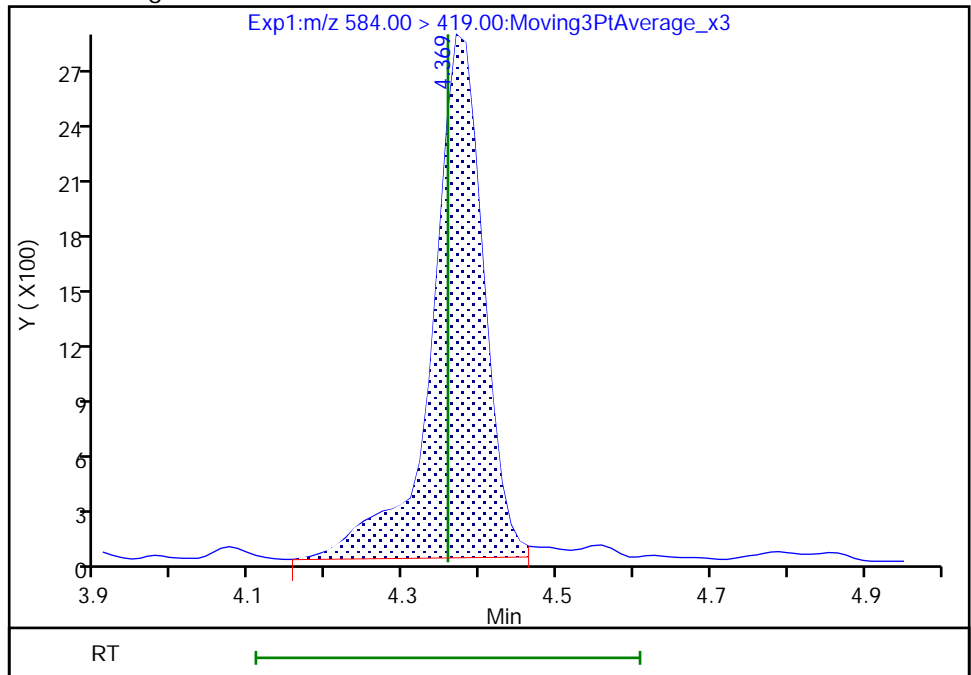
RT: 4.37
Area: 14182
Amount: 0.054349
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

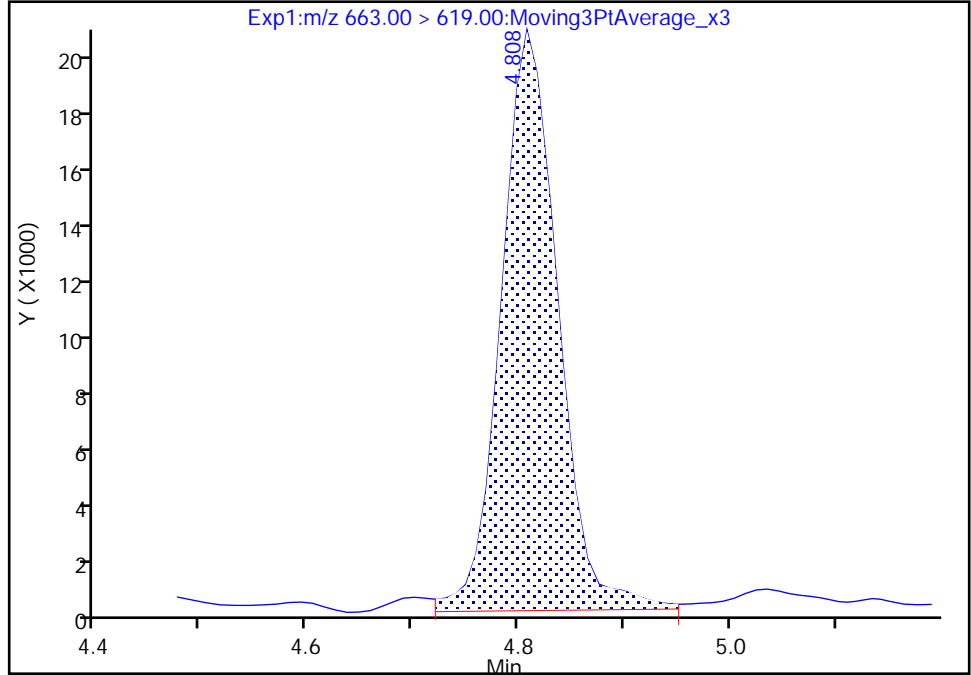
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

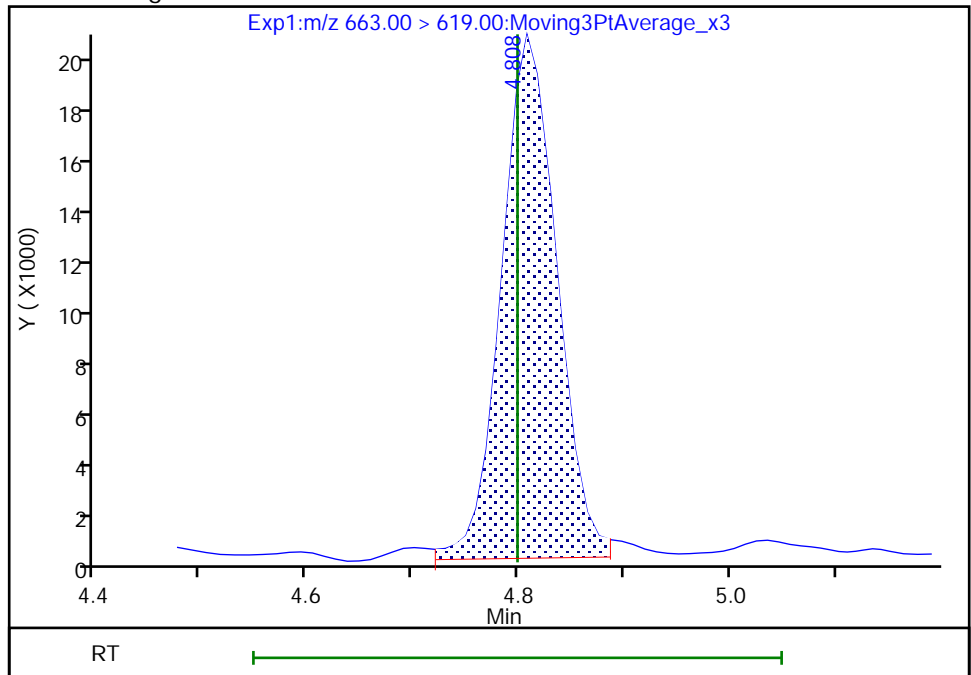
RT: 4.81
Area: 71961
Amount: 0.051076
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

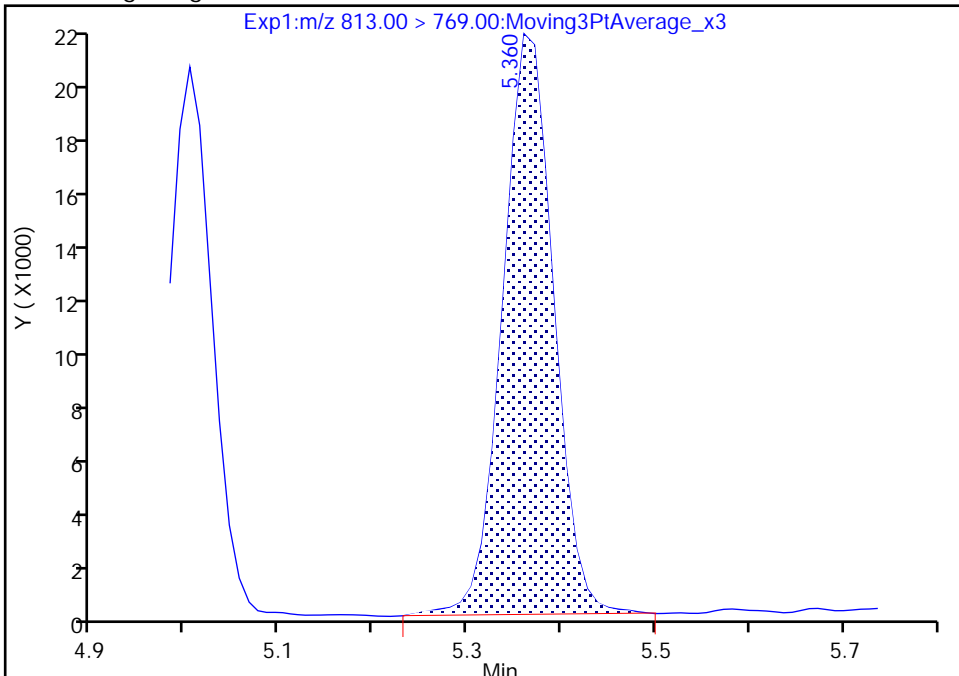
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL05.d
Injection Date: 11-Jan-2023 17:43:06 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

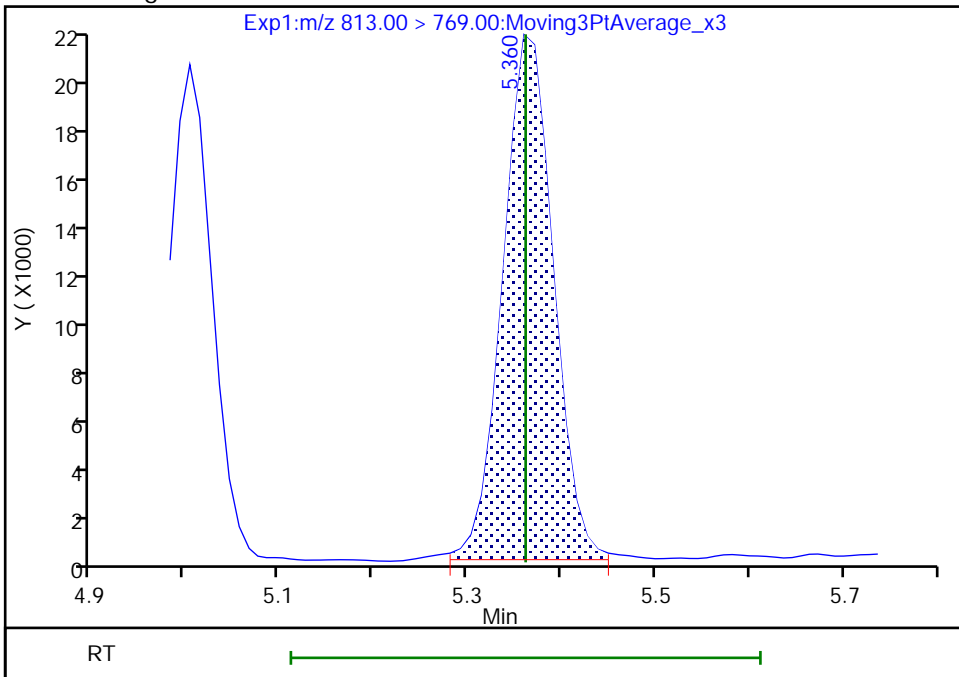
RT: 5.36
Area: 77828
Amount: 0.059807
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

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

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

Ratio Calibration: Average of Initial Calibration

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

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

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

Ratio Calibration: Average of Initial Calibration

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

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

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

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

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

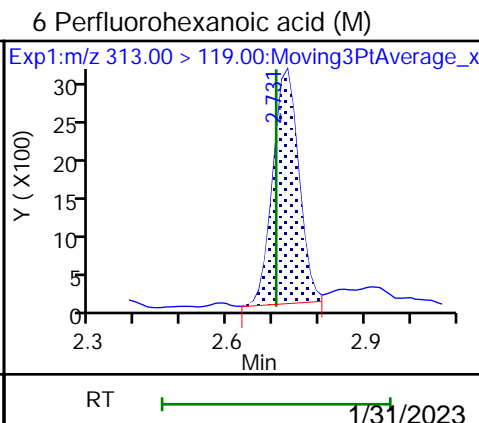
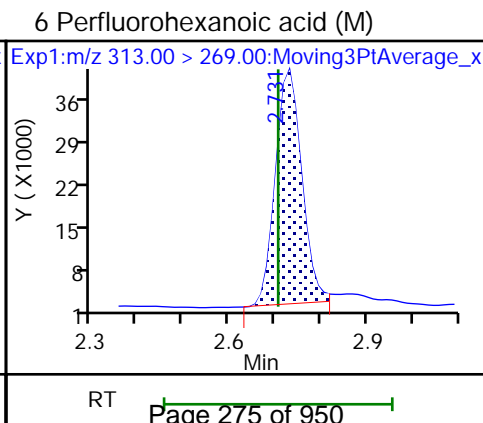
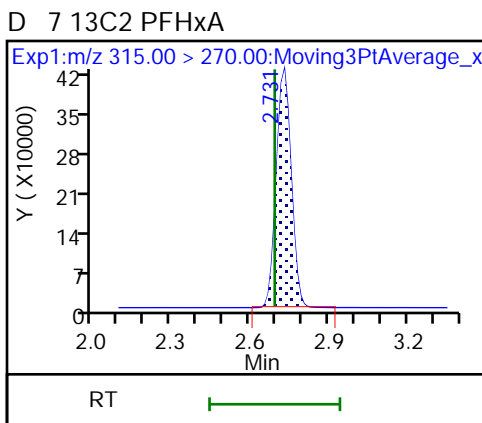
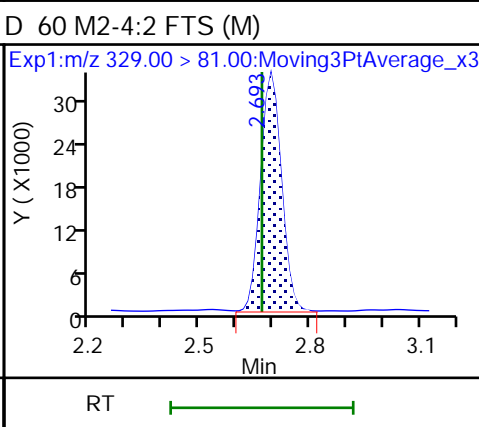
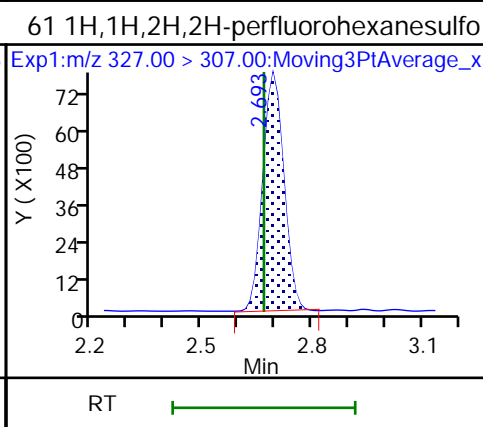
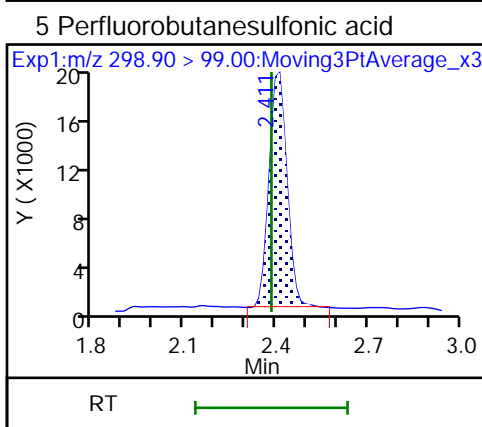
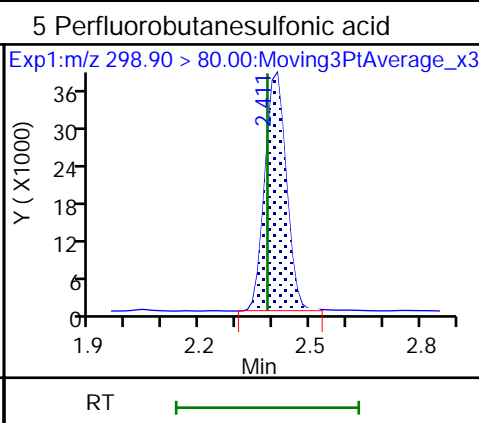
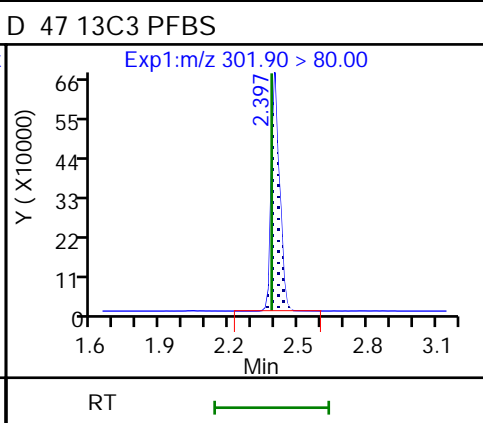
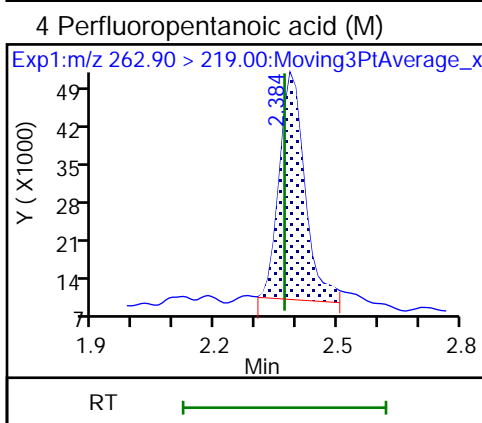
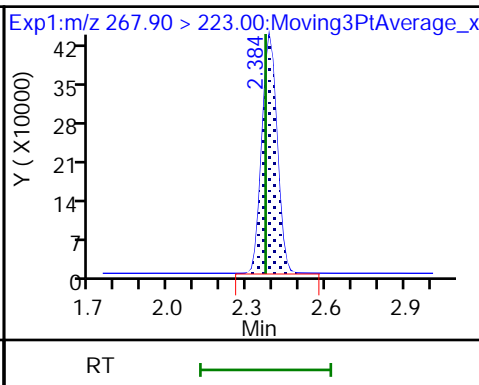
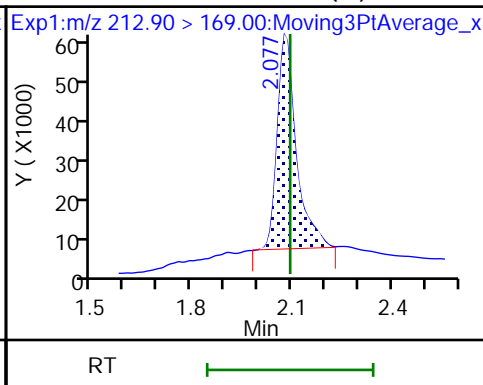
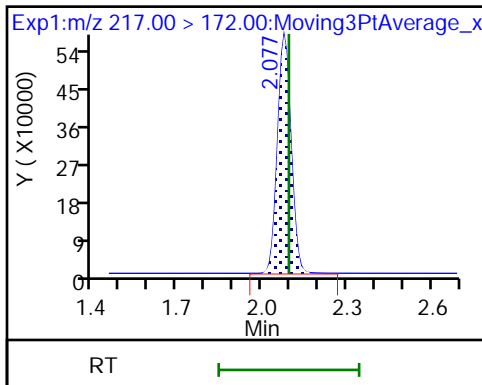
Method: PFC_LC812

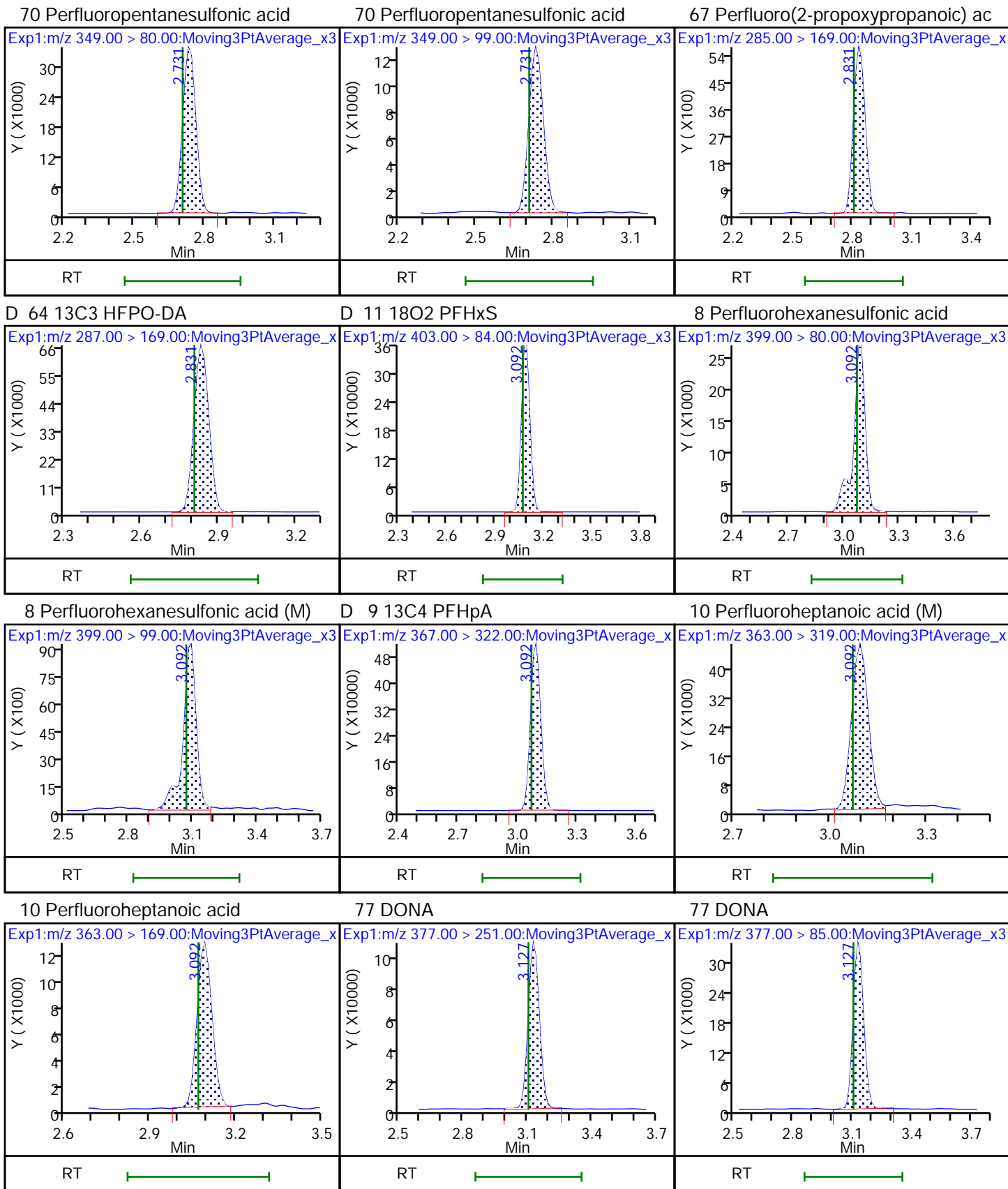
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D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

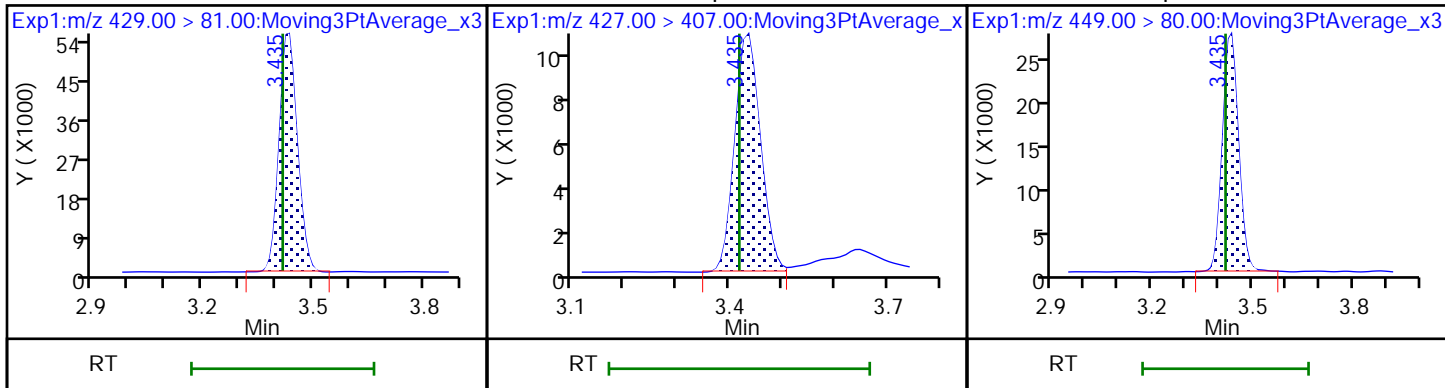




D 12 M2-6:2 FTS

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

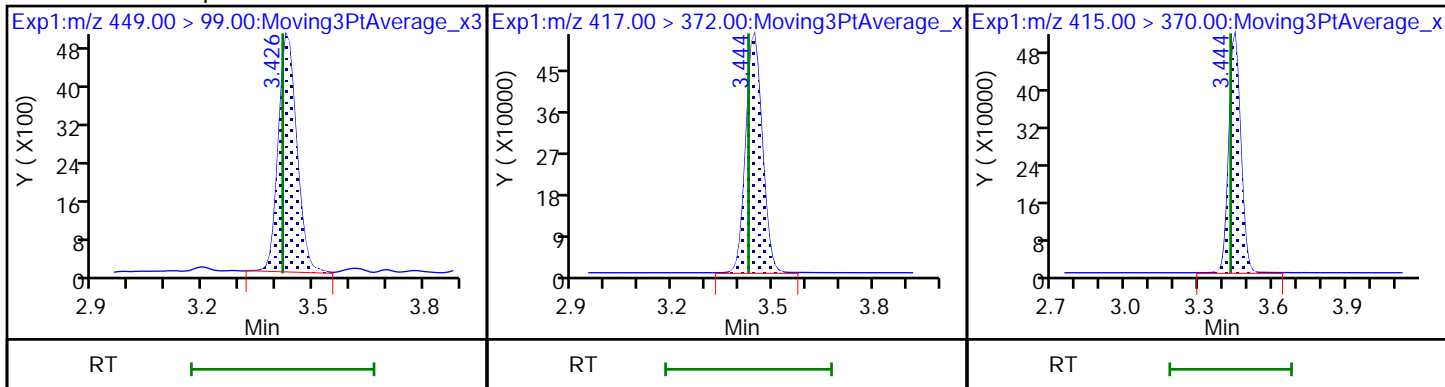
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

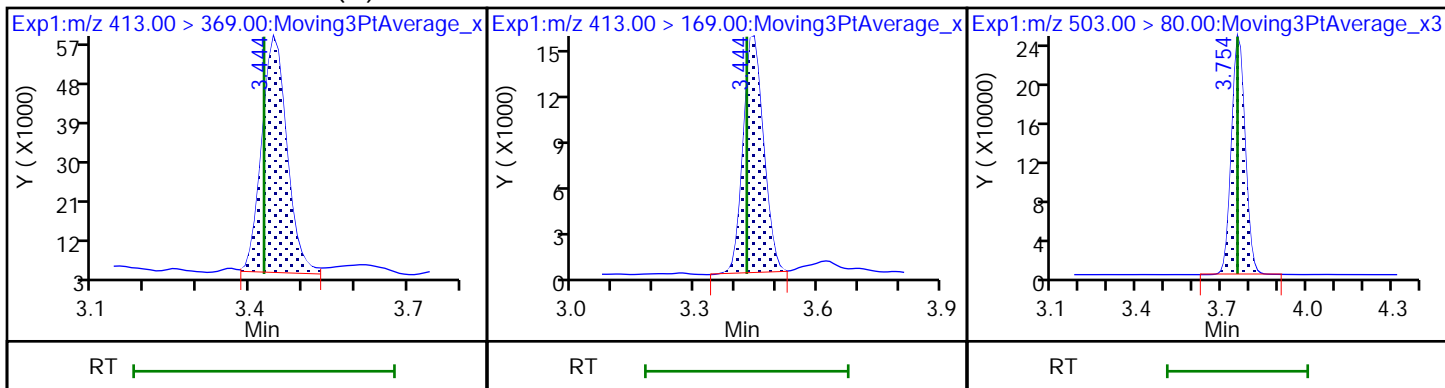
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

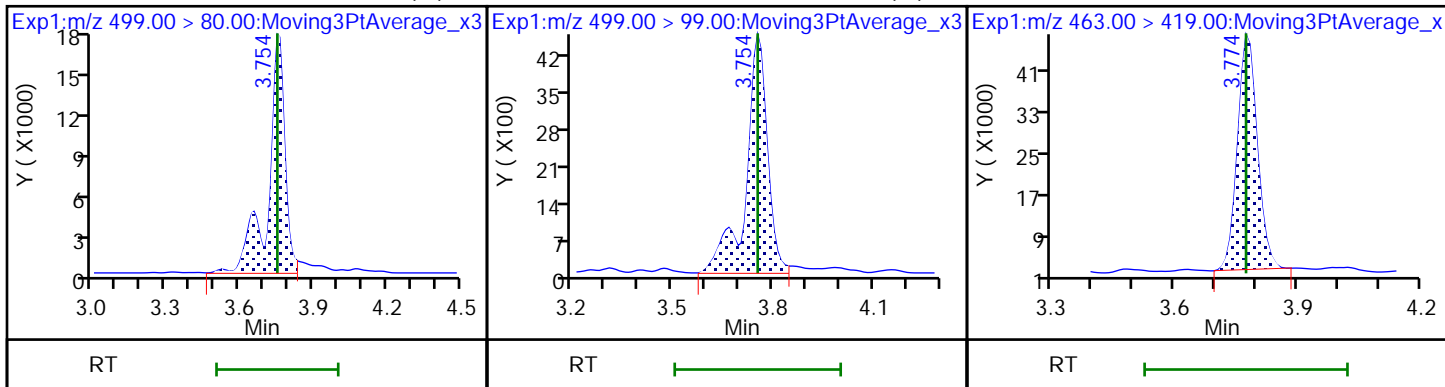
D 18 13C4 PFOS

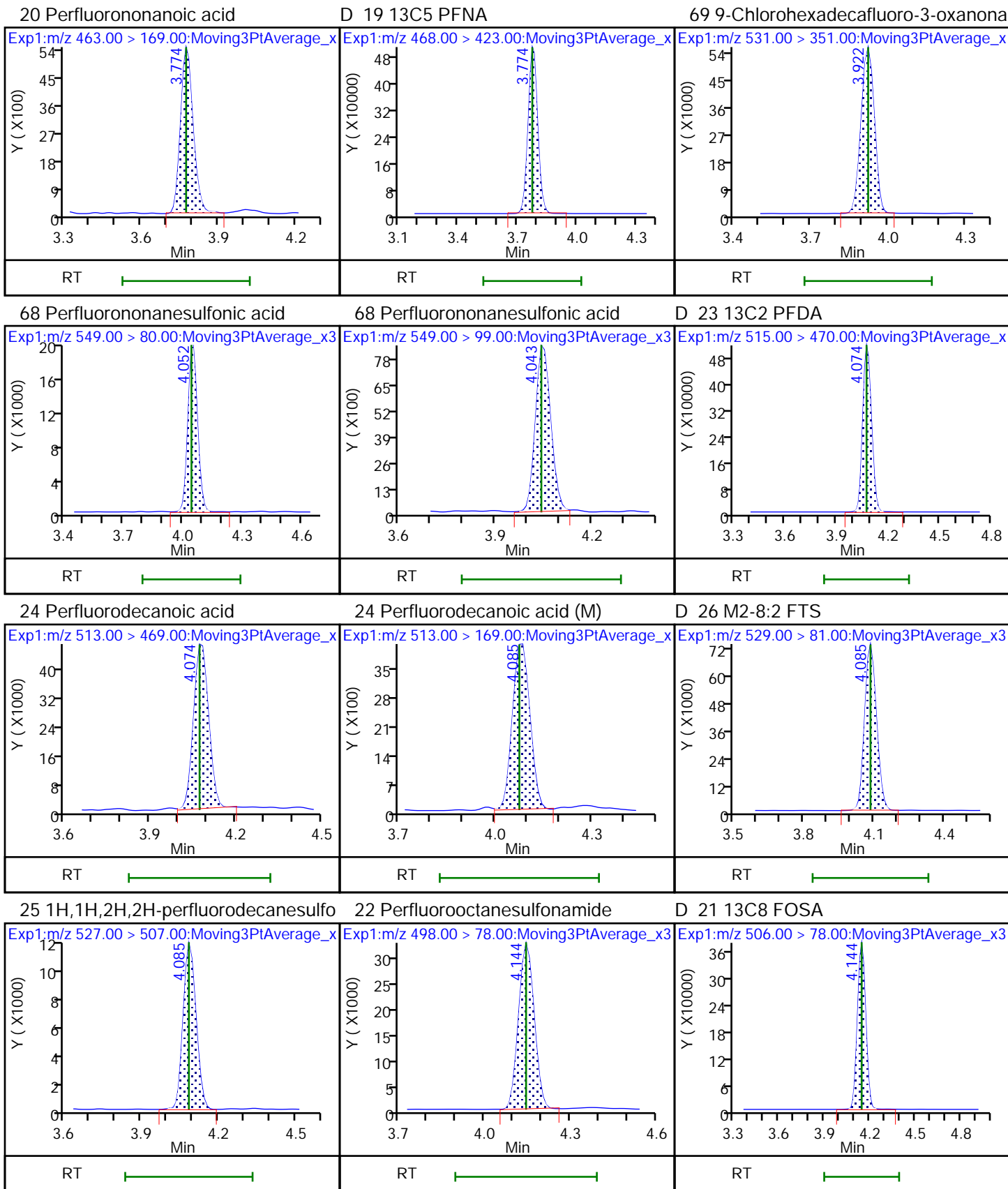


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

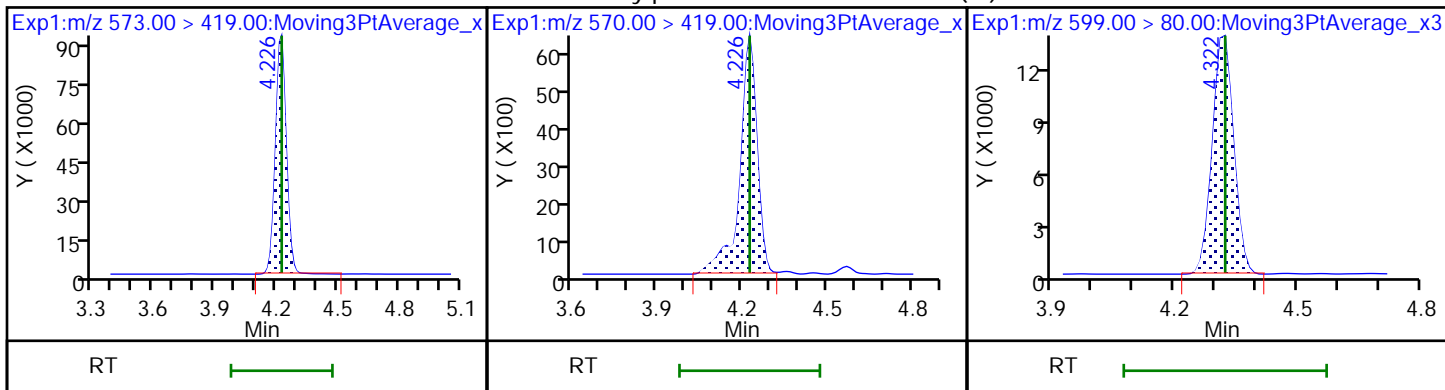
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

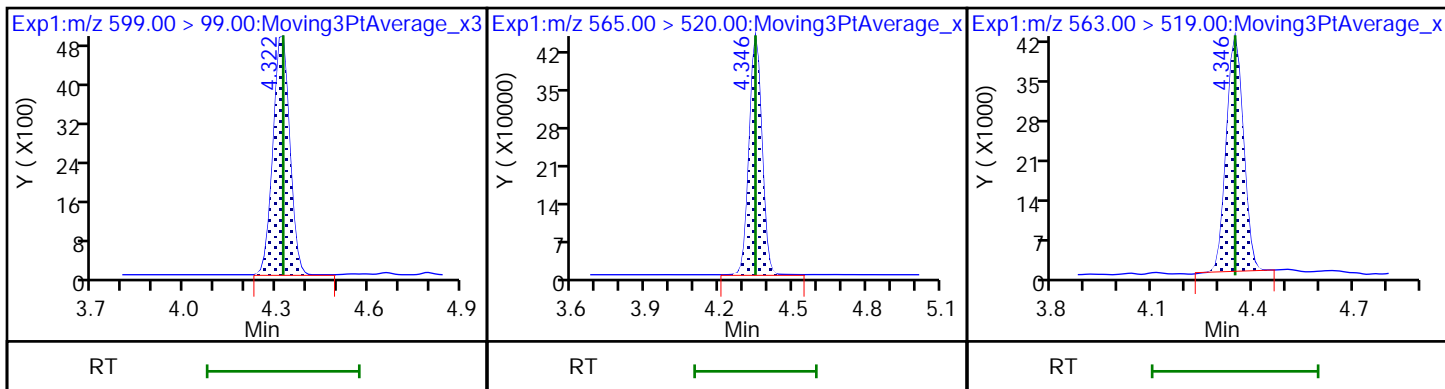
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

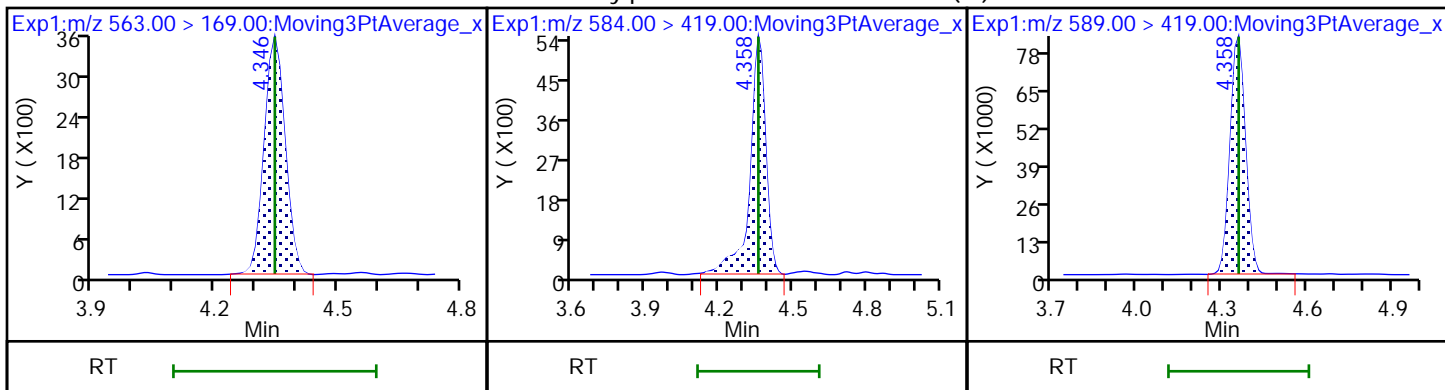
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

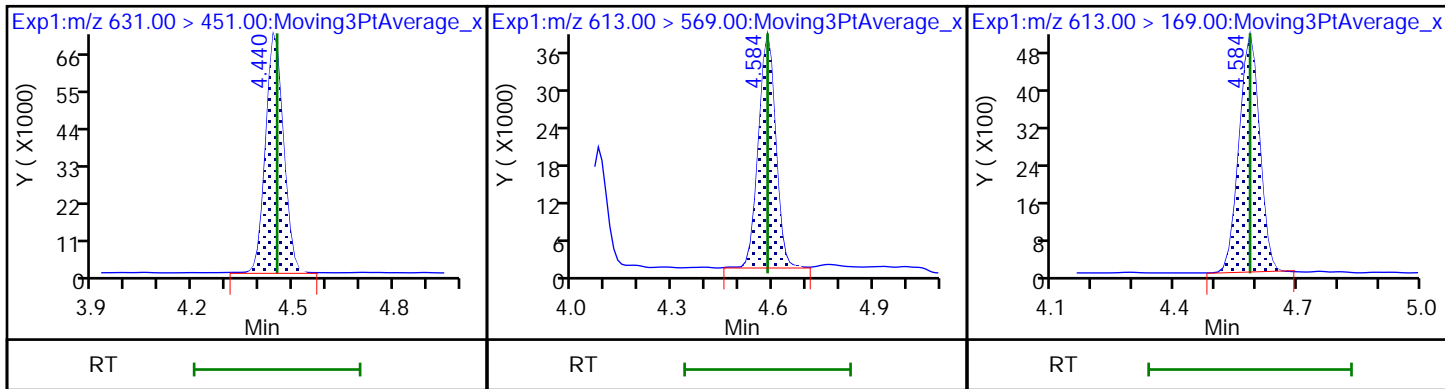
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

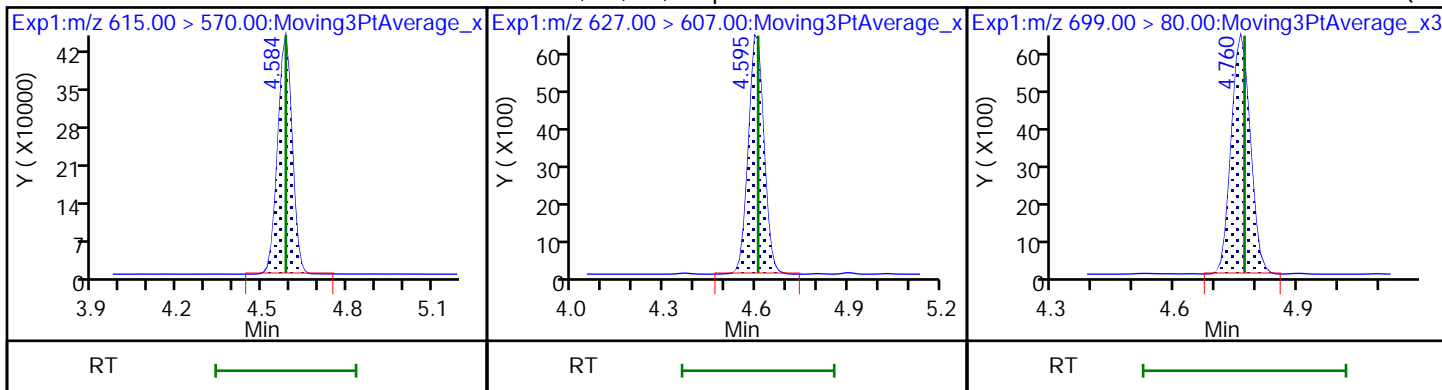
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

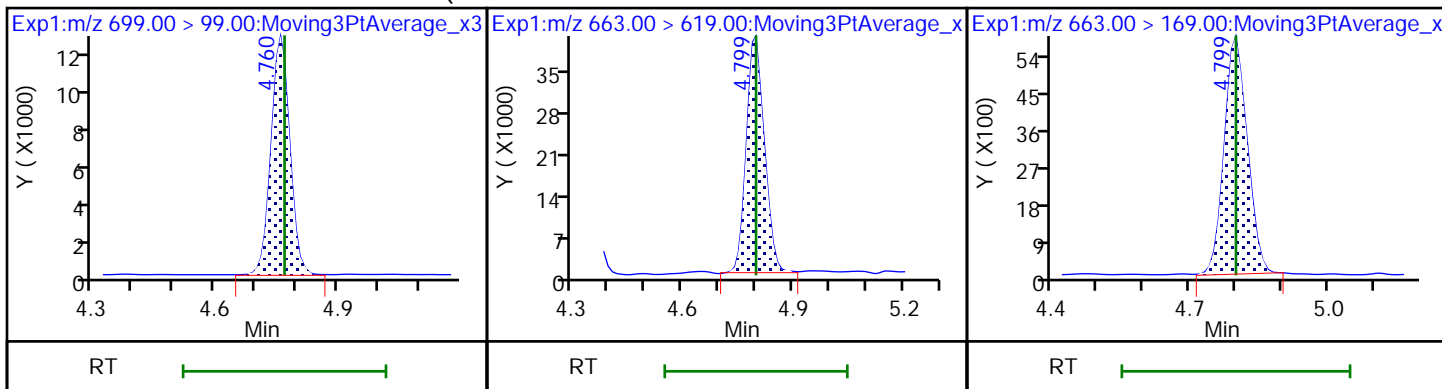
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

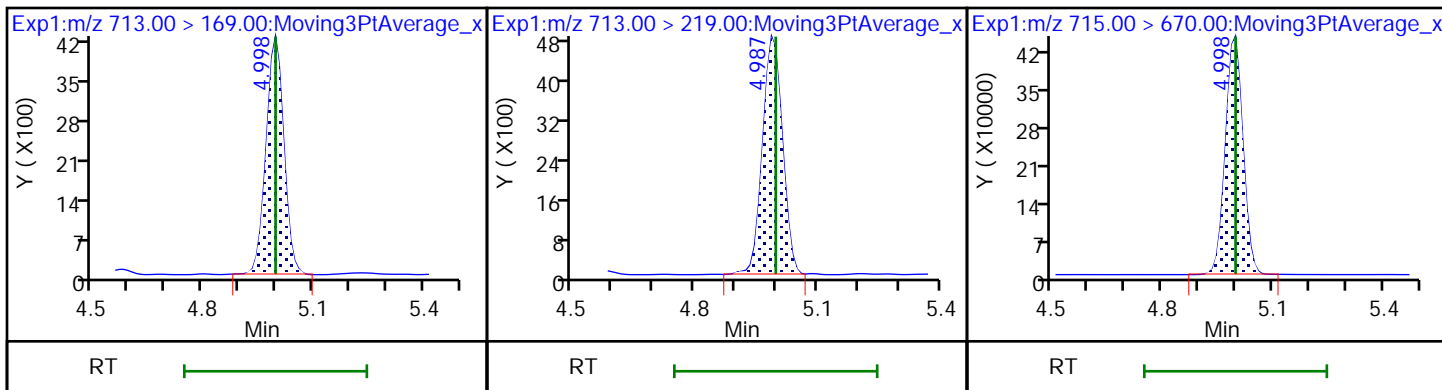
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

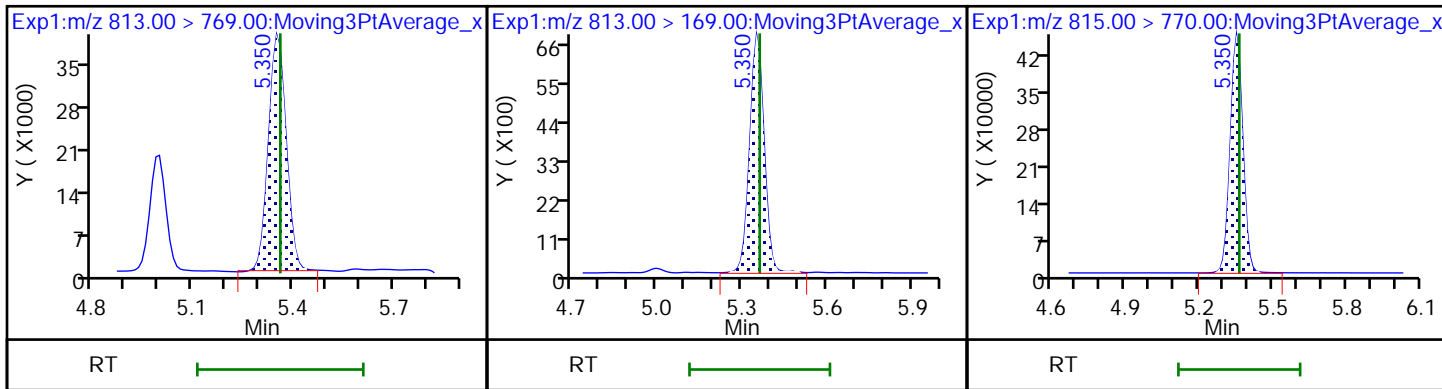
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

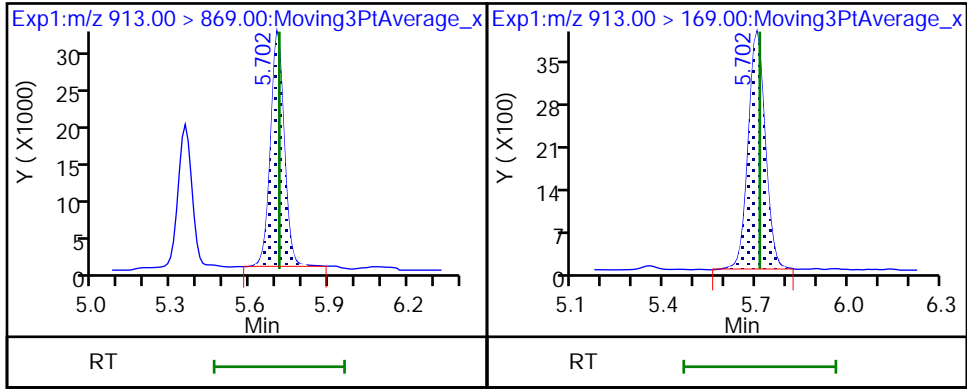
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

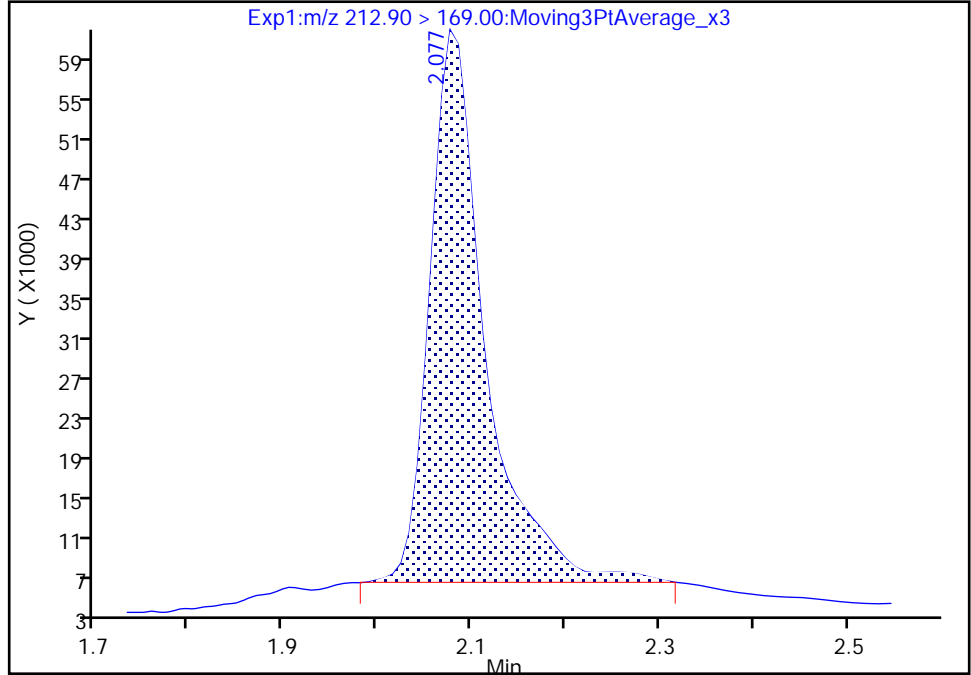
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

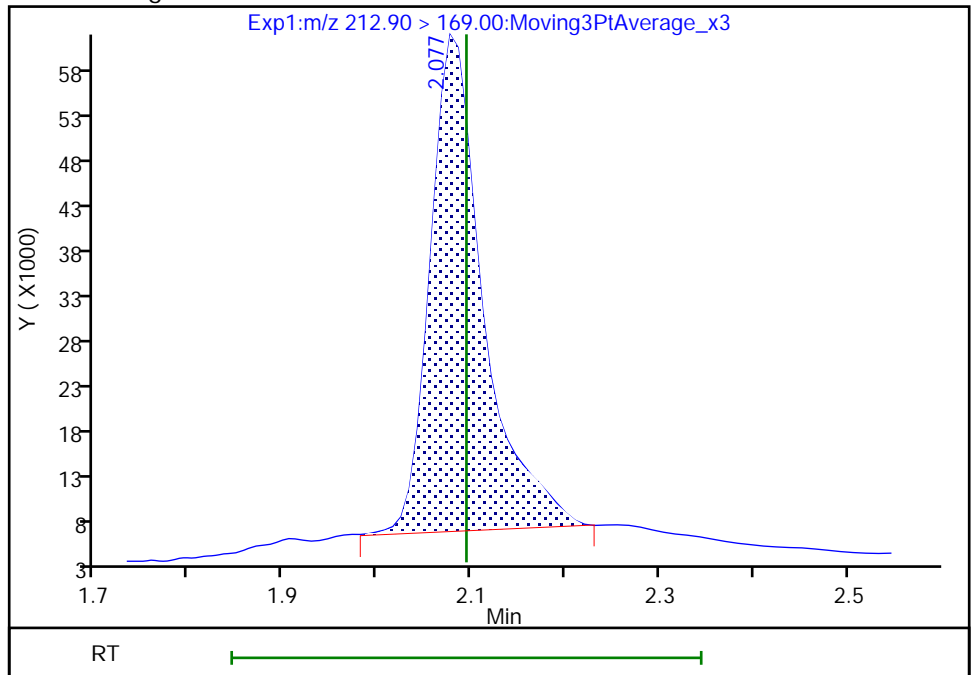
RT: 2.08
Area: 226890
Amount: 0.119875
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration
Page 282 of 950

Eurofins Burlington

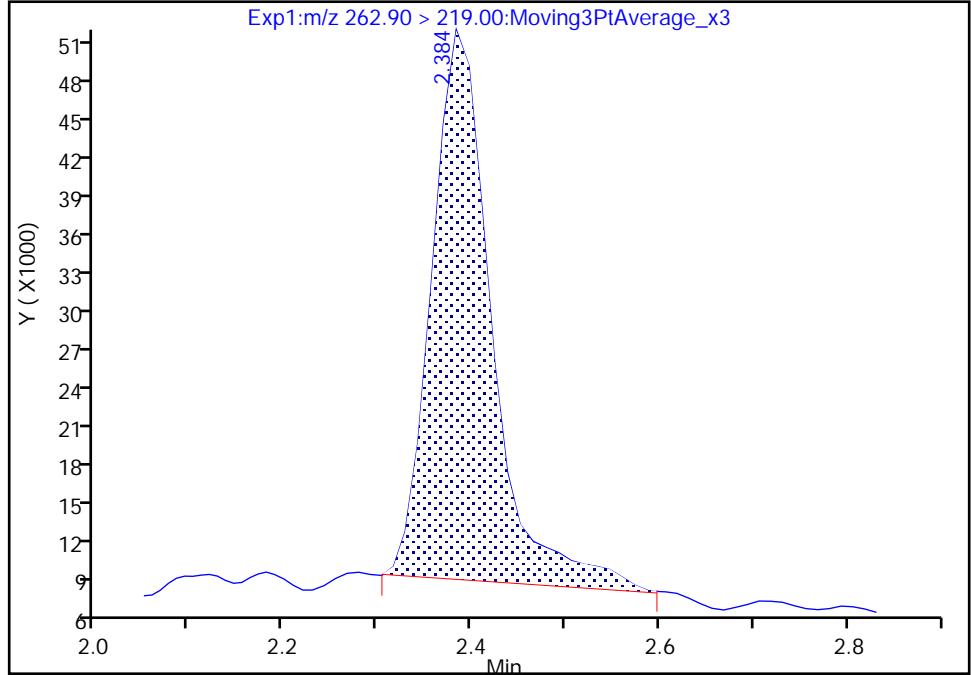
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

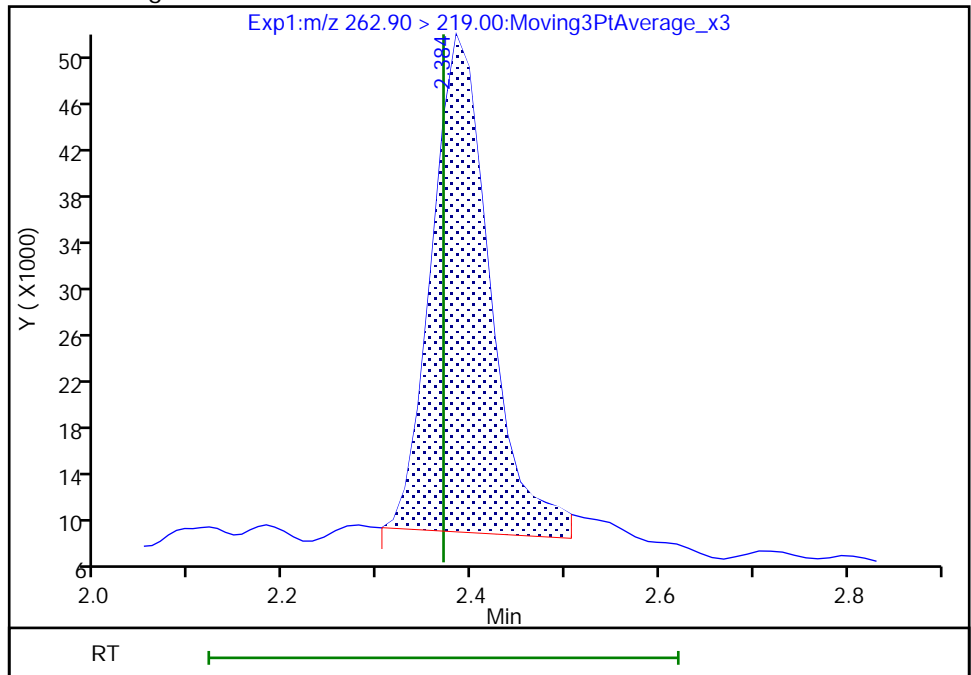
RT: 2.38
Area: 187650
Amount: 0.113061
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

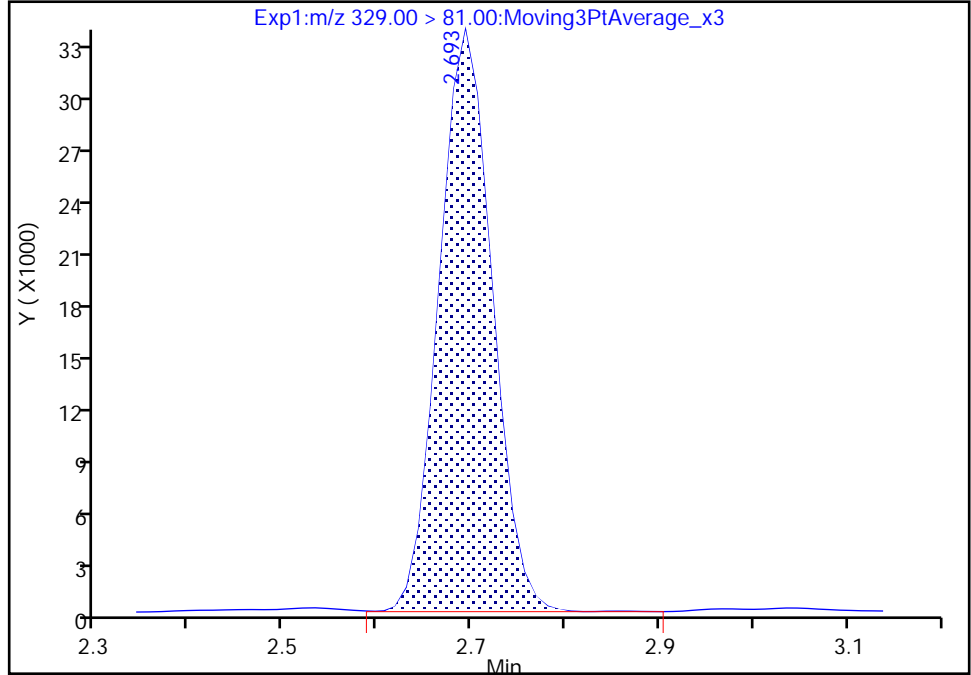
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

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

Signal: 1

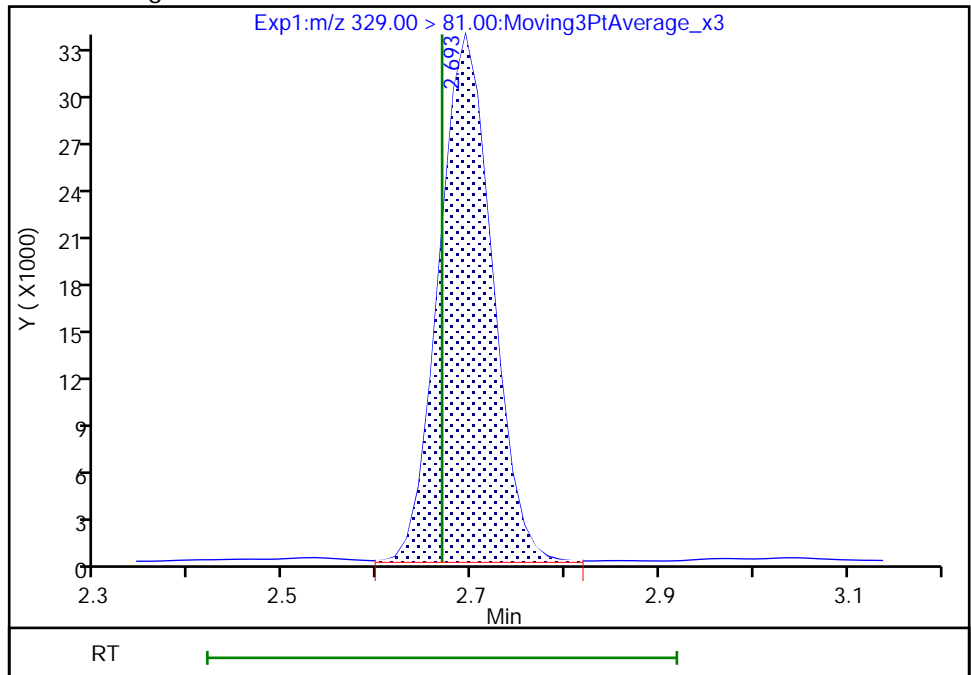
RT: 2.69
Area: 130297
Amount: 1.148888
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:38:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

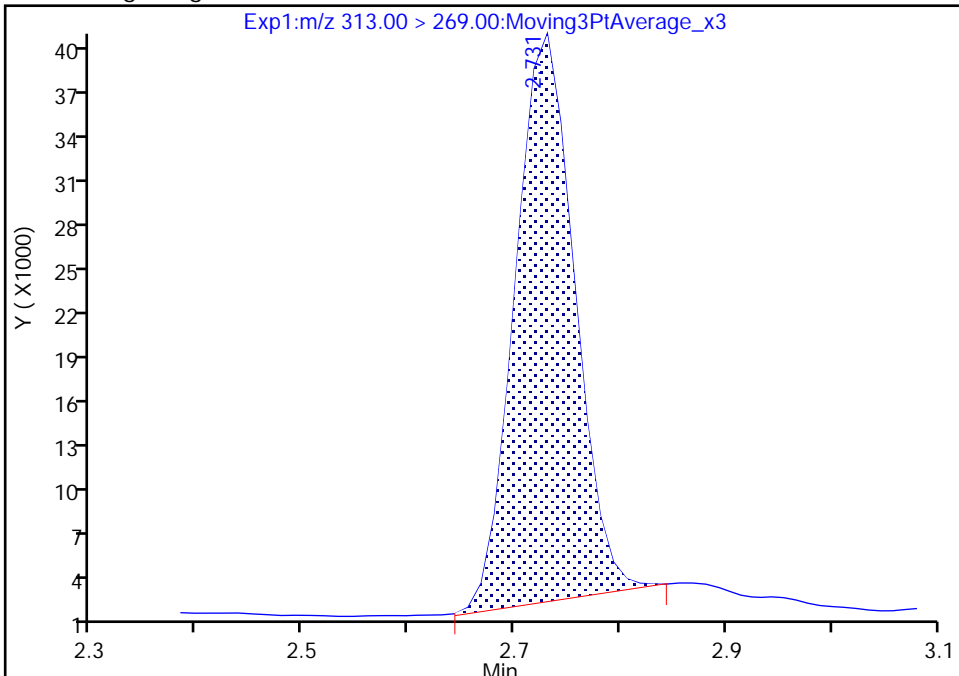
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

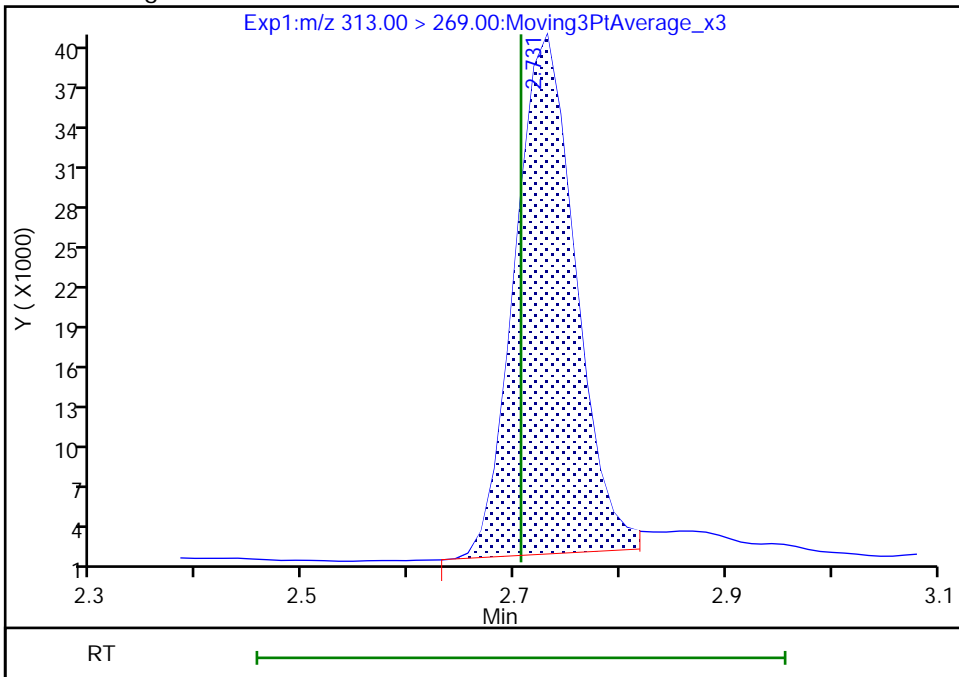
RT: 2.73
Area: 148290
Amount: 0.105557
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

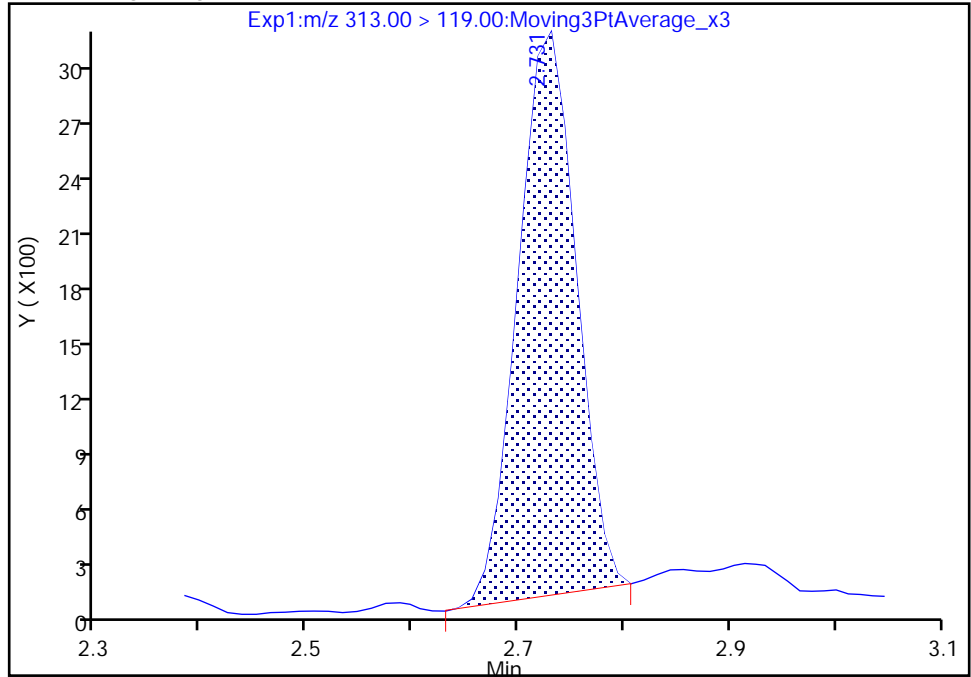
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

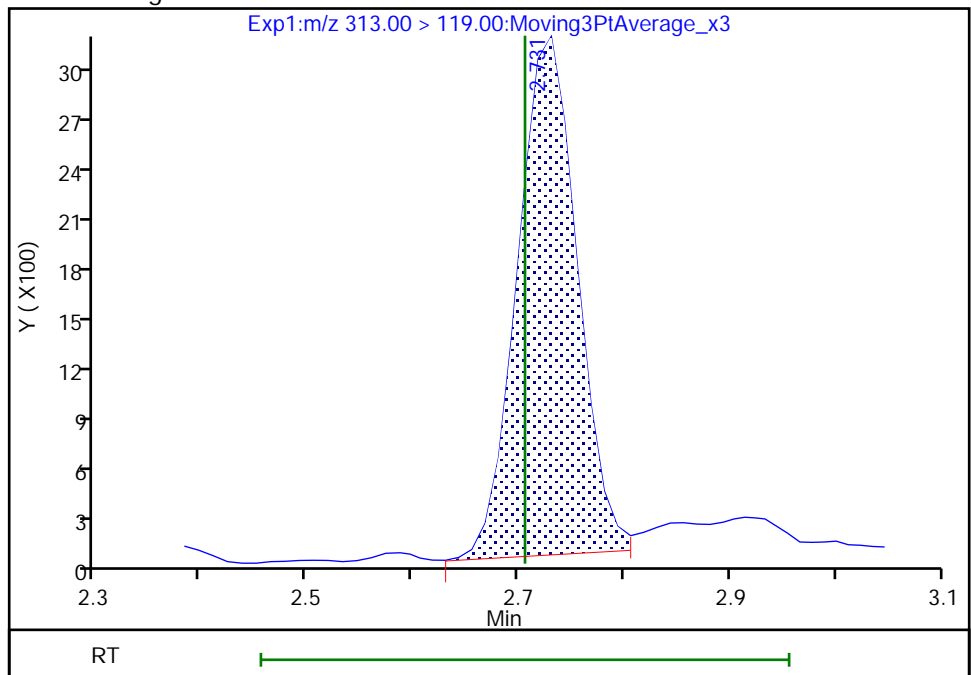
RT: 2.73
Area: 11474
Amount: 0.105557
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

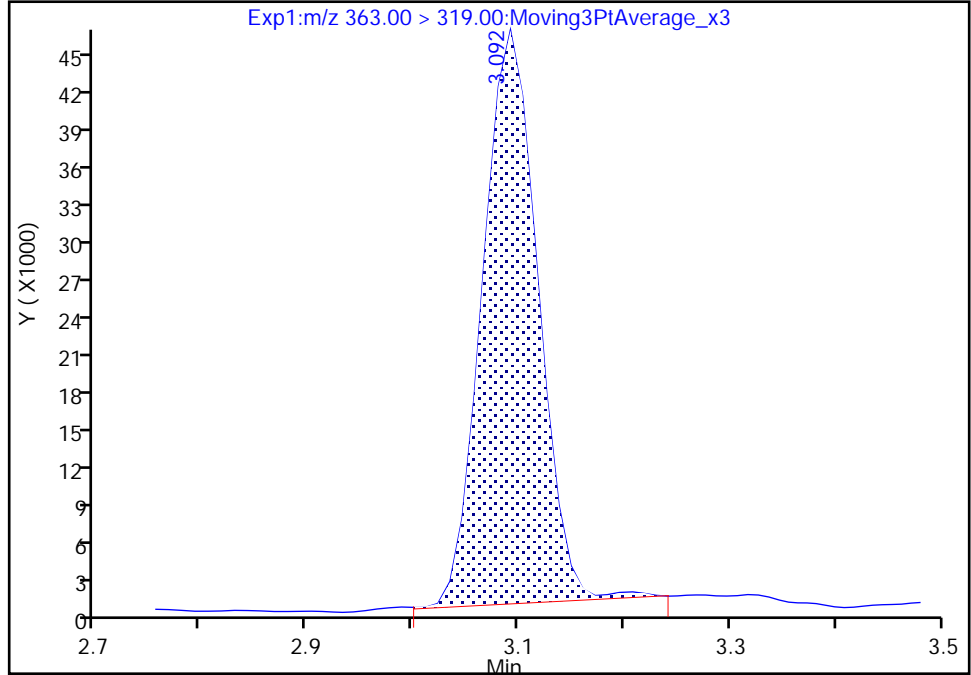
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

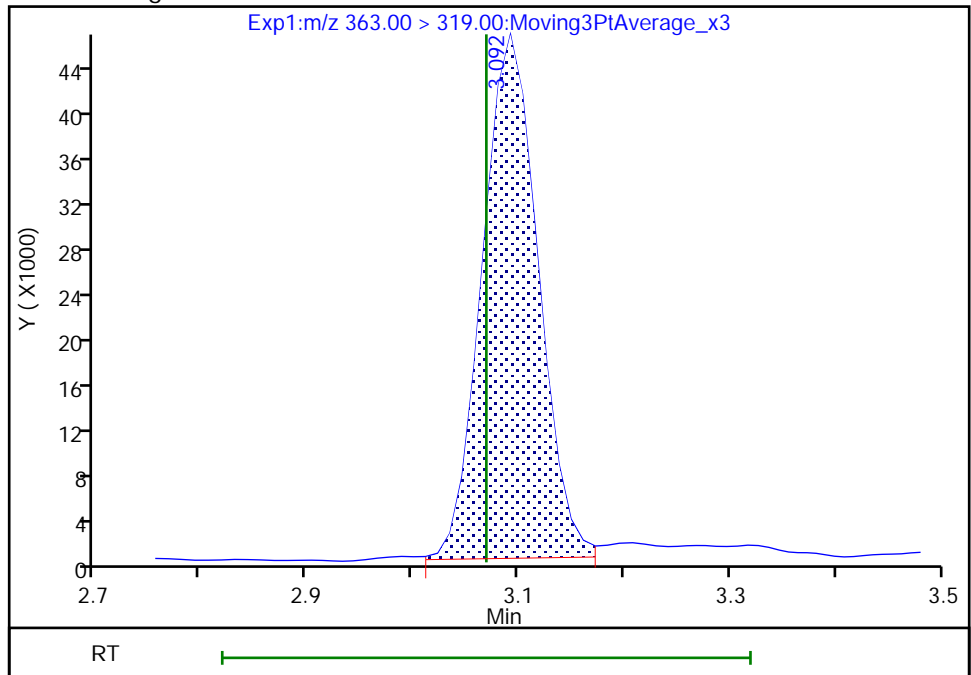
RT: 3.09
Area: 164975
Amount: 0.104683
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

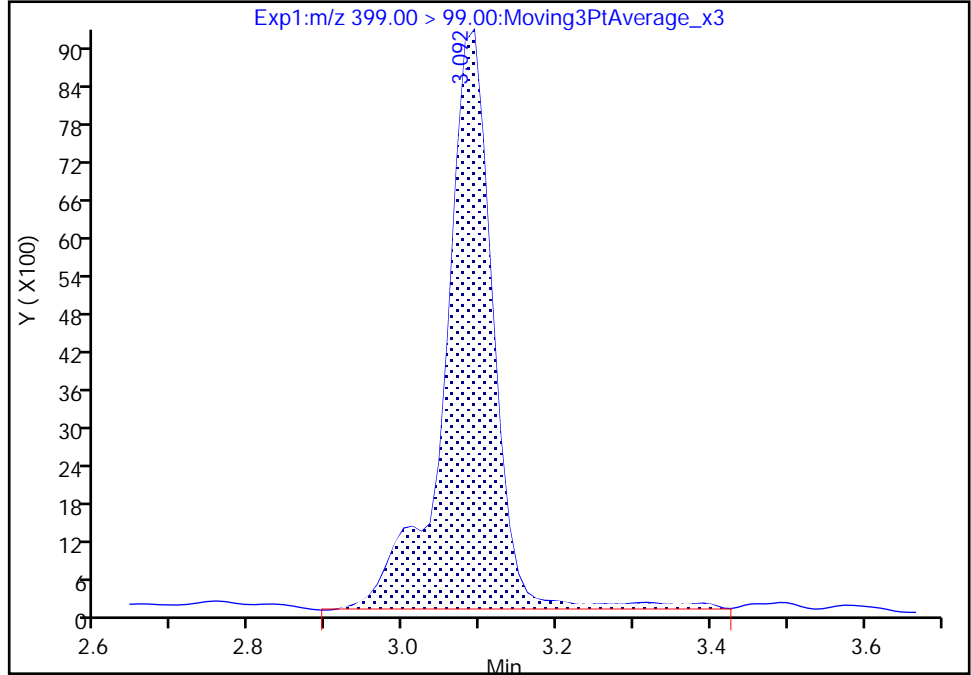
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

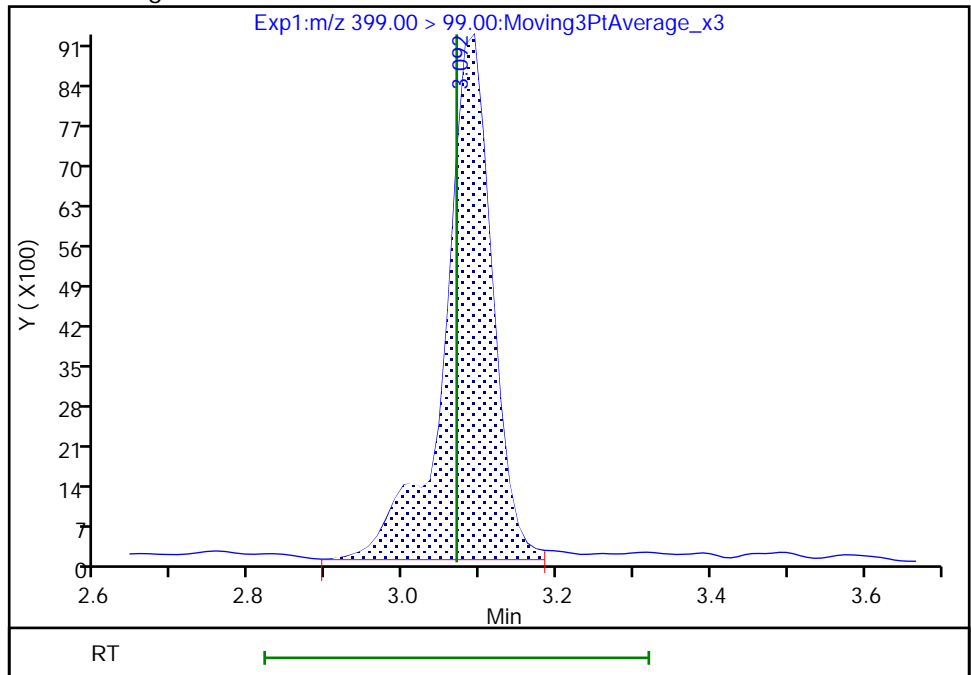
RT: 3.09
Area: 40551
Amount: 0.096810
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

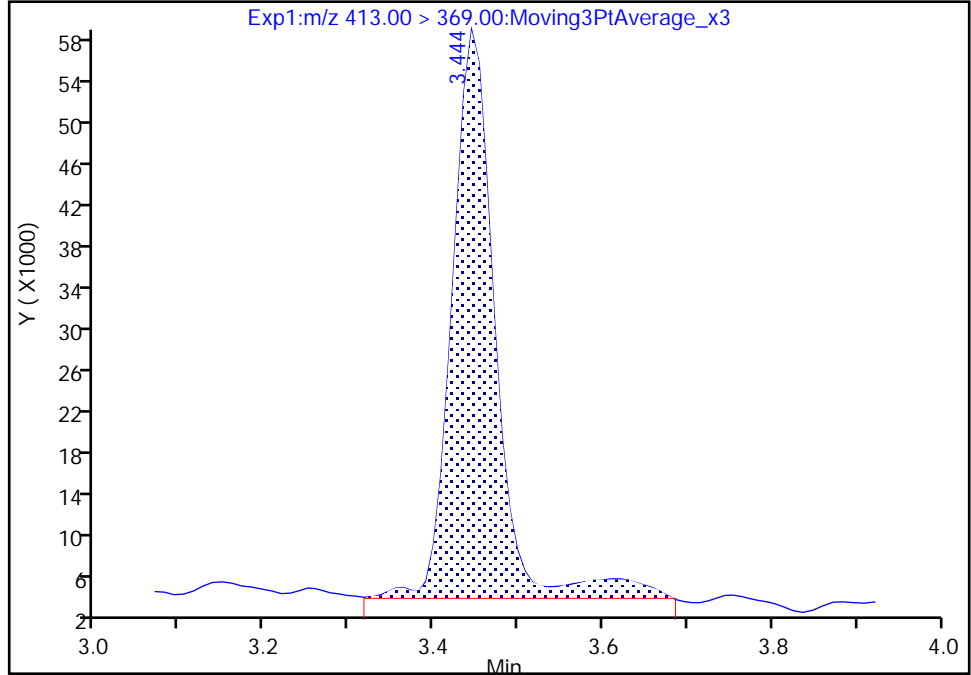
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

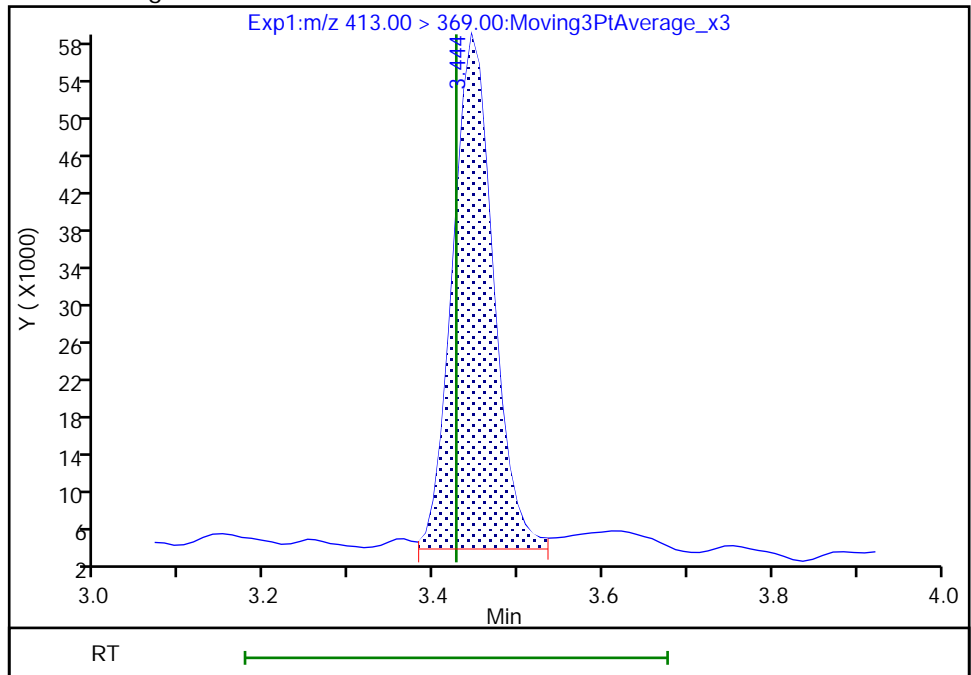
RT: 3.44
Area: 197807
Amount: 0.124647
Amount Units: ng/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

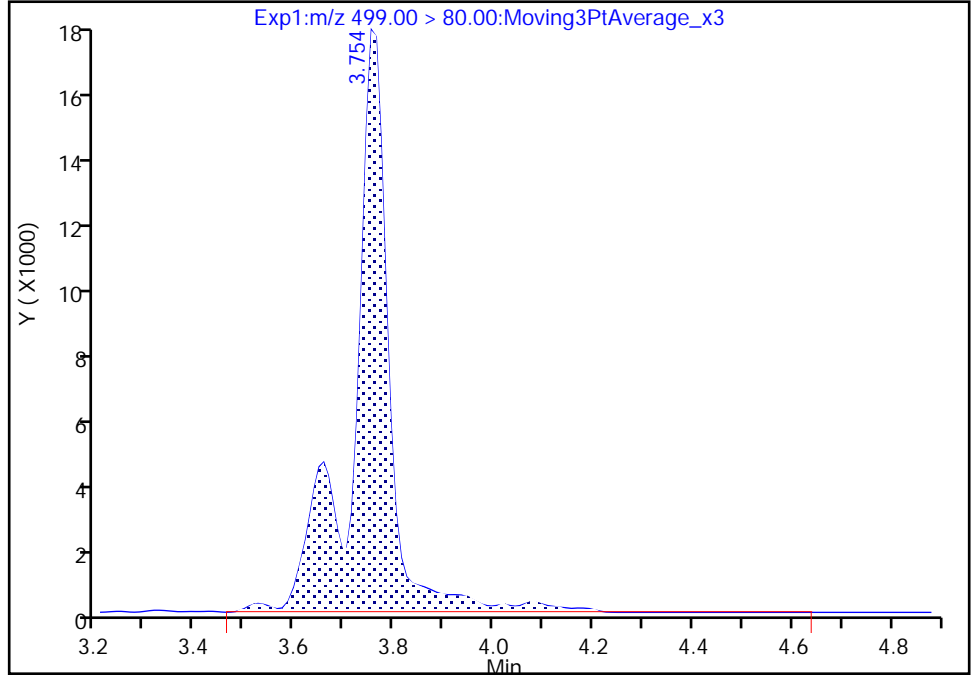
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

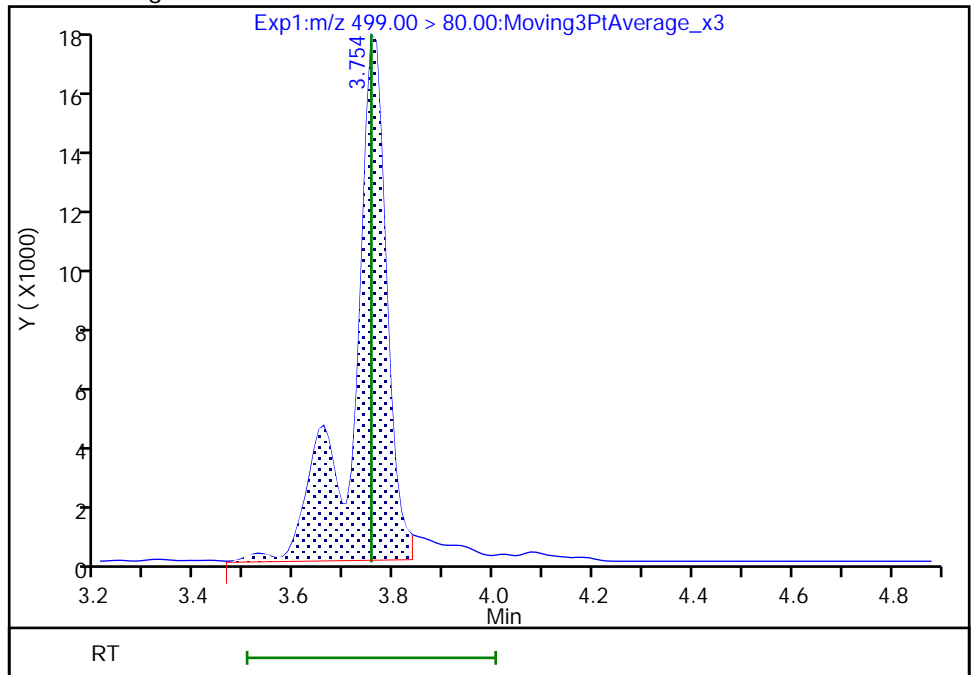
RT: 3.75
Area: 88679
Amount: 0.105628
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 80631
Amount: 0.098313
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

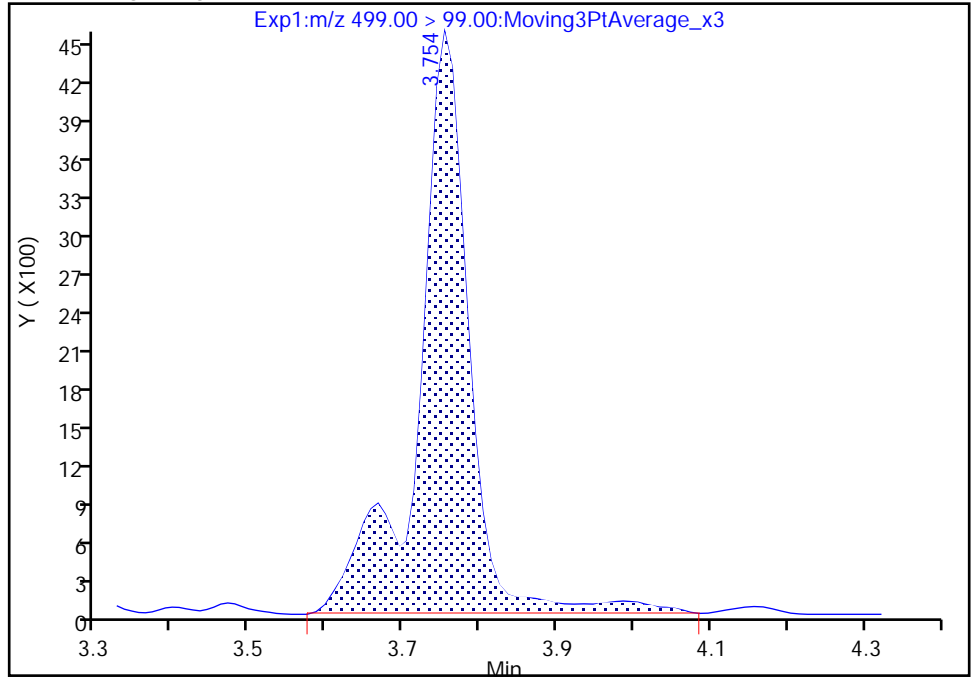
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

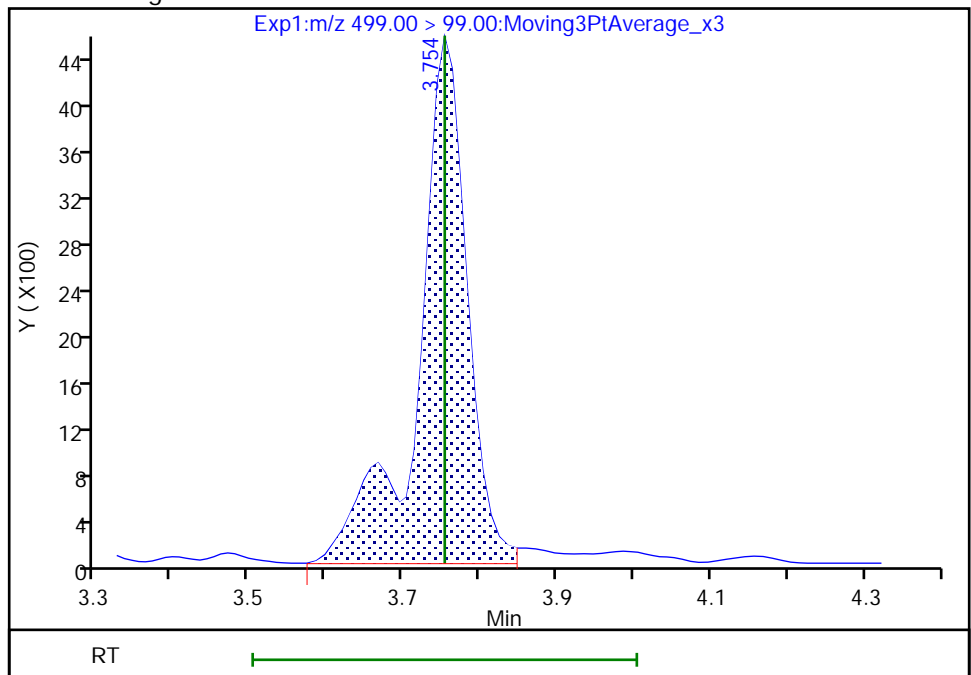
RT: 3.75
Area: 21314
Amount: 0.105628
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 20236
Amount: 0.098313
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

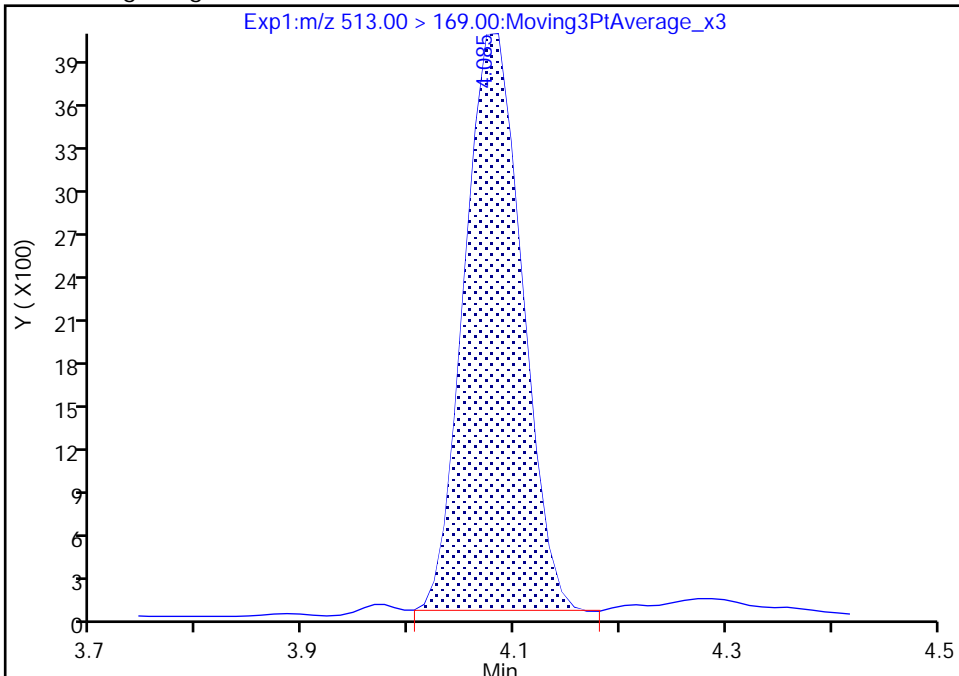
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

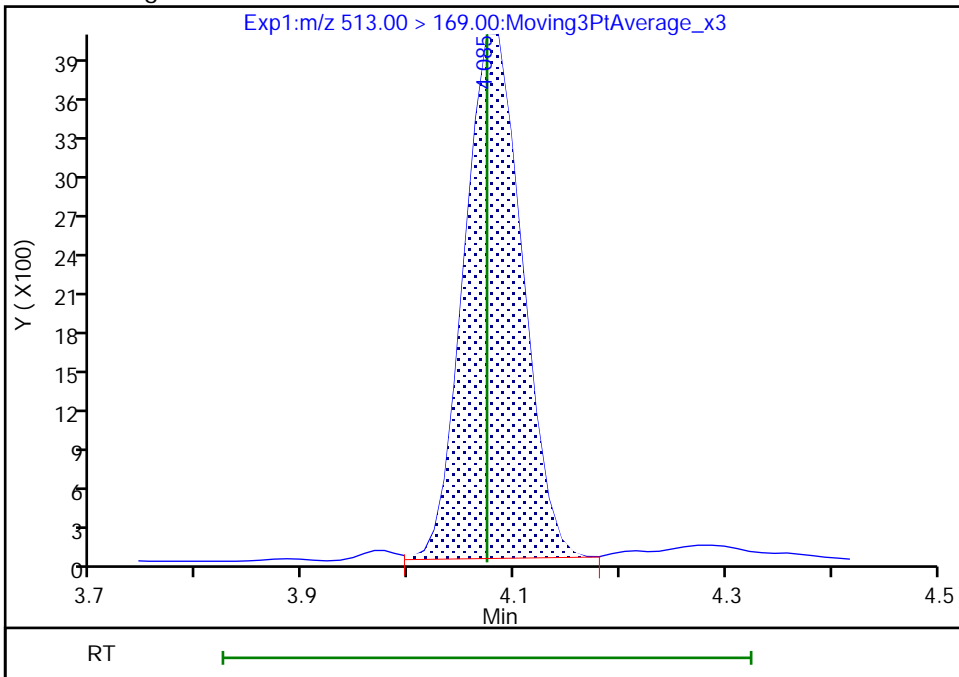
RT: 4.08
Area: 15070
Amount: 0.106268
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 15244
Amount: 0.106268
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 292 of 950

Eurofins Burlington

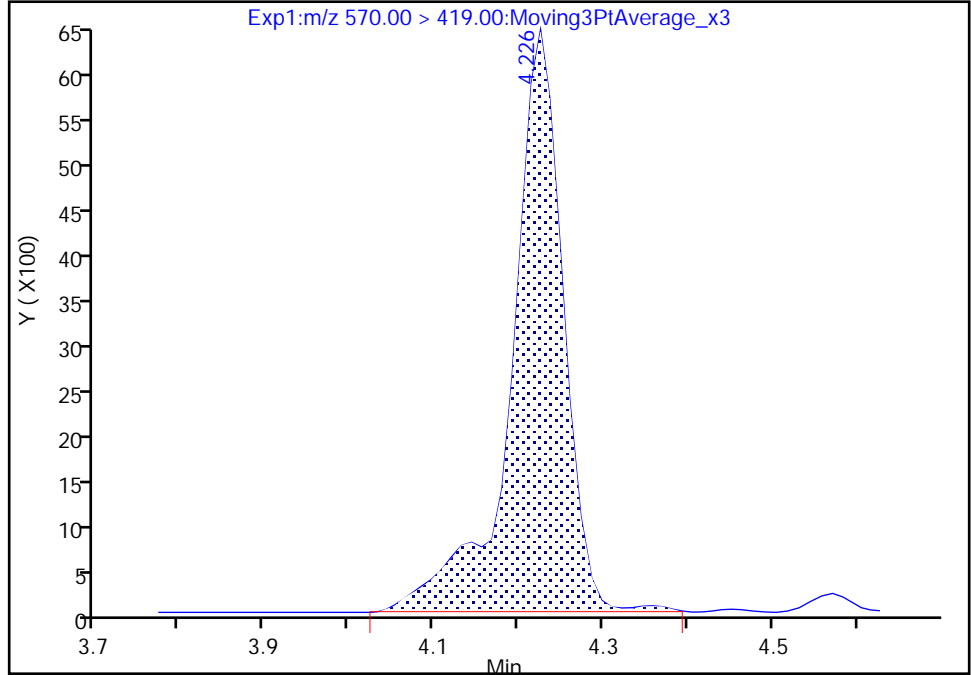
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Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60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

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

Signal: 1

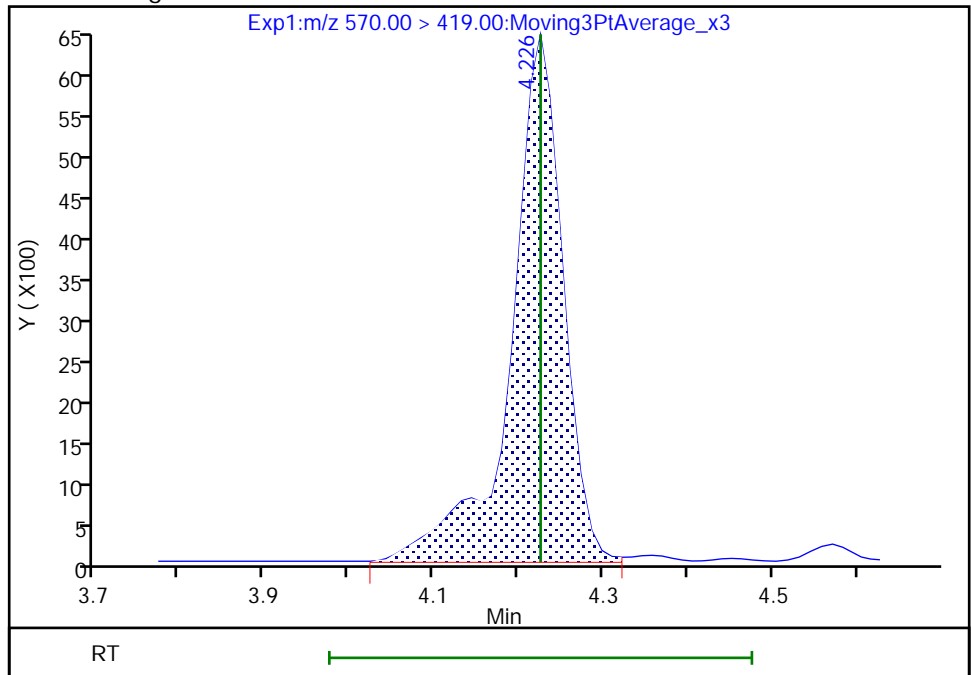
RT: 4.23
Area: 27825
Amount: 0.111107
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 27592
Amount: 0.110689
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:40:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

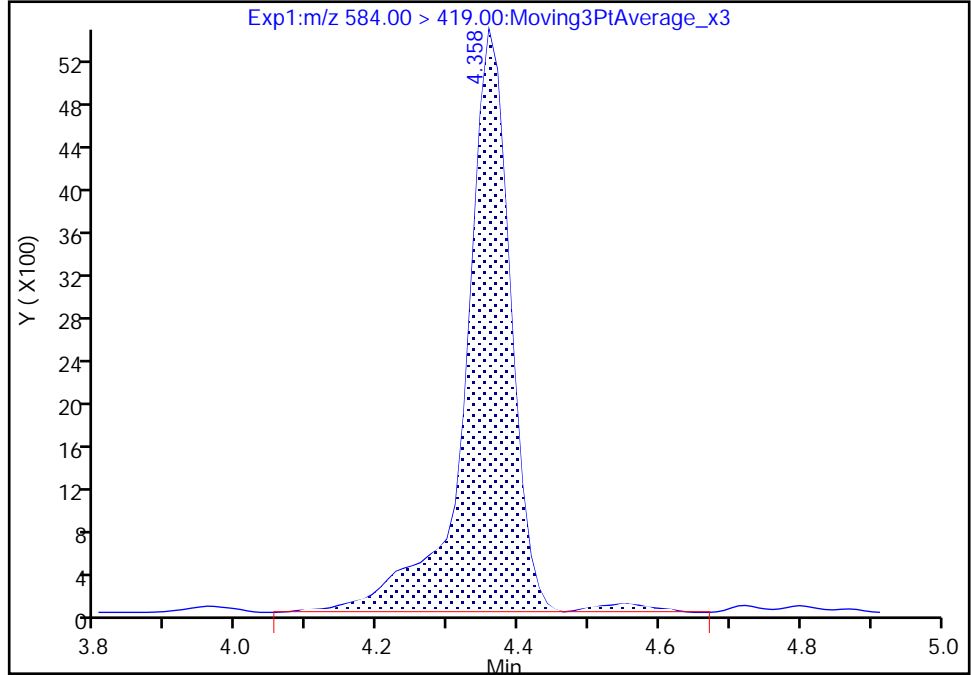
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

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

Signal: 1

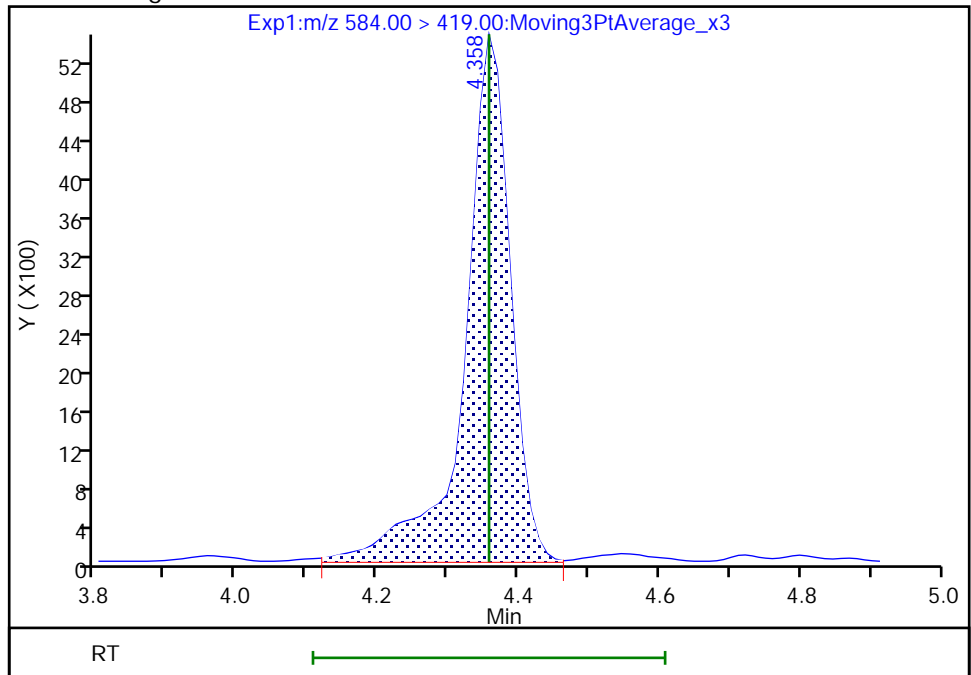
RT: 4.36
Area: 24983
Amount: 0.106238
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 24452
Amount: 0.104694
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:41:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

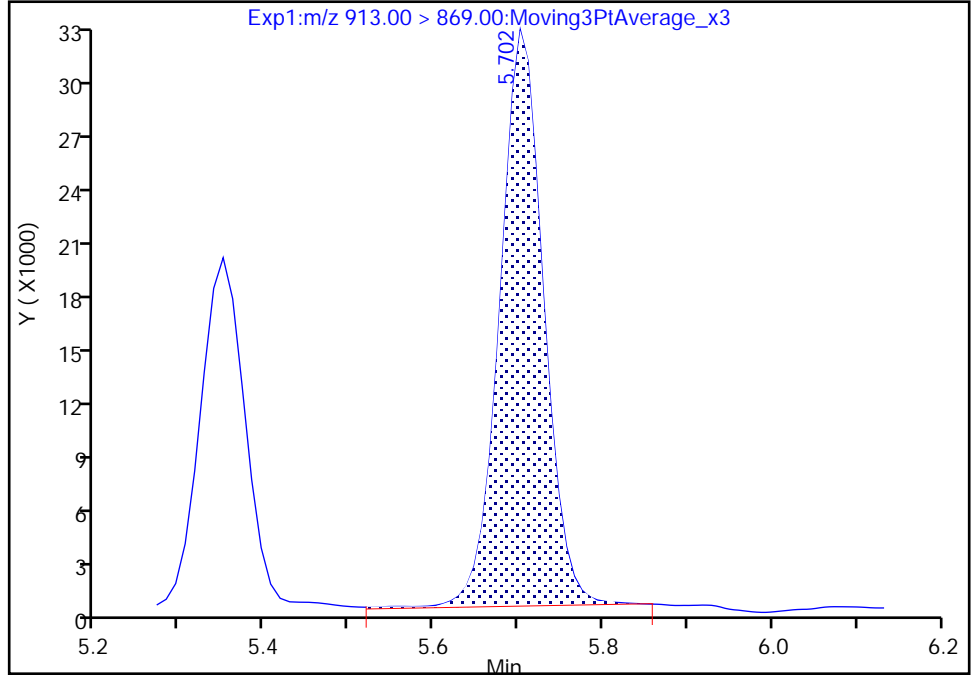
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL06.d
Injection Date: 11-Jan-2023 17:51:16 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: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

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

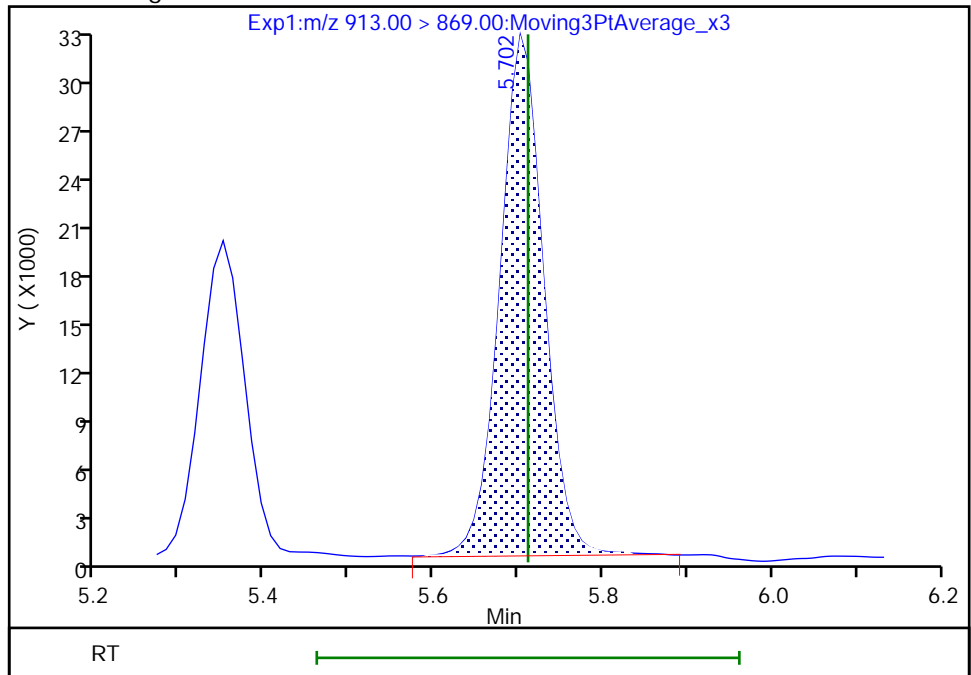
RT: 5.70
Area: 114107
Amount: 0.108145
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 113666
Amount: 0.108109
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:44:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Jan-2023 17:59:25 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-007 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:26 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 12:24:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.603	2083329	1.30	104	15616	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.094	-0.008	1.004	904017	0.5291		106	81.6	M
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1552712	1.20	95.8	6371	
4 Perfluoropentanoic acid	262.90 > 219.00	2.384	2.370	0.014	1.000	750439	0.5275	106	24.0	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1708666	1.20	103	174978	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.397	2.384	0.013	1.000	697170	0.4428	Target=1.99	100	1172
298.90 > 99.00	2.397	2.384	0.013	1.000	339569		2.05(0.99-2.98)	100	277	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.694	2.669	0.025	1.000	170052	0.5058	108	2133	
D 60 M2-4:2 FTS	329.00 > 81.00	2.694	2.669	0.025	0.782	132646	1.15	98.7	199	M
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.793	1669242	1.24	99.1	9627	
6 Perfluorohexanoic acid	313.00 > 269.00	2.731	2.706	0.025	1.000	808024	0.5743	Target=13.02	115	137
313.00 > 119.00	2.731	2.706	0.025	1.000	53873		15.00(6.51-19.53)	115	99.7	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.883	618646	0.4830	Target=2.73	103	1116
349.00 > 99.00	2.731	2.706	0.025	0.883	238386		2.60(1.37-4.10)	103	744	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.831	2.806	0.025	1.000	118554	0.4863		97.3	2921

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.831	2.806	0.025	0.822	304873	1.31		105	3214	
D 11 18O2 PFHxS										
403.00 > 84.00	3.092	3.069	0.023	0.898	1224605	1.18		100	4785	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.092	3.069	0.023	1.000	563340	0.4956	Target=3.13	109	1835	
399.00 > 99.00	3.092	3.069	0.023	1.000	170394		3.31(1.57-4.70)	109	318	
D 9 13C4 PFHpA										
367.00 > 322.00	3.092	3.069	0.023	0.898	1725691	1.28		102	6390	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.092	3.069	0.023	1.000	787489	0.5356	Target=3.92	107	149	
363.00 > 169.00	3.092	3.069	0.023	1.000	207674		3.79(1.96-5.88)	107	400	
77 DONA										
377.00 > 251.00	3.138	3.104	0.034	0.834	1782286	0.5069	Target=3.04	108	1266	
377.00 > 85.00	3.138	3.104	0.034	0.834	570975		3.12(1.52-4.56)	108	1182	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.435	3.417	0.018	0.997	213768	1.31		110	1186	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.435	3.417	0.018	1.000	206634	0.5013		106	338	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.435	3.417	0.018	0.913	504952	0.5659	Target=4.66	119	2127	
449.00 > 99.00	3.435	3.417	0.018	0.913	108825		4.64(2.33-6.99)	119	688	
D 14 13C4 PFOA										
417.00 > 372.00	3.453	3.426	0.027	1.003	1845411	1.29		103	14525	
* 62 13C2 PFOA										
415.00 > 370.00	3.444	3.426	0.018		1743405	1.25			12198	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.453	3.426	0.027	1.000	823197	0.5124	Target=3.01	102	61.1	
413.00 > 169.00	3.453	3.426	0.027	1.000	283575		2.90(1.50-4.51)	102	639	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.754	0.010	1.093	732775	1.16		97.4	4661	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.754	0.010	1.000	365984	0.4913	Target=4.13	106	491	M
499.00 > 99.00	3.764	3.754	0.010	1.000	88101		4.15(2.07-6.20)	106	389	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.784	3.774	0.010	1.000	791576	0.5543	Target=8.58	111	128	
463.00 > 169.00	3.784	3.774	0.010	1.000	87950		9.00(4.29-12.87)	111	780	
D 19 13C5 PFNA										
468.00 > 423.00	3.784	3.774	0.010	1.098	1747438	1.26		100	5530	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.935	3.922	0.013	1.045	894206	0.5029		108	5297	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	357862	0.5784	Target=2.32	121	2103	
549.00 > 99.00	4.052	4.043	0.009	1.077	148770		2.41(1.16-3.48)	121	848	
D 23 13C2 PFDA										
515.00 > 470.00	4.085	4.074	0.011	1.186	1930492	1.35		108	10784	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.085	4.074	0.011	1.000	812767	0.4922	Target=10.61	98.4	253	
513.00 > 169.00	4.085	4.074	0.011	1.000	81691		9.95(5.30-15.91)	98.4	326	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.097	4.085	0.012	1.189	257487	1.26		105	1281	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.097	4.085	0.012	1.000	199244	0.5108		107	3285	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.156	4.144	0.012	1.003	591874	0.4839		96.8	1196	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	1520143	1.31		105	2711	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.227	375217	1.34		107	1565	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	128807	0.4759		95.2	504	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.322	-0.012	1.145	248562	0.5389	Target=2.46	112	2205	
599.00 > 99.00	4.310	4.322	-0.012	1.145	99857		2.49(1.23-3.69)	112	1191	
D 30 13C2 PFUnA										
565.00 > 520.00	4.334	4.346	-0.012	1.258	1602066	1.30		104	9898	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.334	4.346	-0.012	1.000	802887	0.5738	Target=11.25	115	244	
563.00 > 169.00	4.334	4.346	-0.012	1.000	66843		12.01(5.62-16.87)	115	751	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.003	144069	0.5242		105	778	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.346	4.358	-0.012	1.262	369795	1.37		110	831	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.429	4.452	-0.023	1.177	1564055	0.5684		121	3627	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.546	4.584	-0.038	1.000	703268	0.5497	Target=8.15	110	80.7	
613.00 > 169.00	4.546	4.584	-0.038	1.000	75480		9.32(4.08-12.23)	110	950	
D 36 13C2 PFDaA										
615.00 > 570.00	4.546	4.584	-0.038	1.320	1570634	1.27		102	3573	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.572	4.606	-0.034	1.116	130458	0.5289		110	2243	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.722	4.770	-0.048	1.255	97843	0.5222	Target=0.53	108	1637	
699.00 > 99.00	4.712	4.770	-0.058	1.252	186705		0.52(0.26-0.79)	108	2630	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.751	4.799	-0.048	1.045	660761	0.5171	Target=6.29	103	82.6	
663.00 > 169.00	4.751	4.799	-0.048	1.045	105353		6.27(3.14-9.43)	103	1247	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.945	4.998	-0.053	1.000	74373	0.5863	Target=0.93	117	1482	
713.00 > 219.00	4.945	4.998	-0.053	1.000	68077		1.09(0.46-1.39)	117	1217	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.945	4.998	-0.053	1.436	1269926	1.19		95.6	4621	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.306	5.362	-0.056	1.000	652349	0.4999	Target=6.52	100.0	103	
813.00 > 169.00	5.306	5.362	-0.056	1.000	98632		6.61(3.26-9.77)	100.0	1391	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.306	5.362	-0.056	1.540	1733261	1.33		106	5750	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.657	5.711	-0.054	1.066	525342	0.4684	Target=7.39	93.7	96.5	M
913.00 > 169.00	5.657	5.711	-0.054	1.066	71215		7.38(3.69-11.08)	93.7	646	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00015

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d

Injection Date: 11-Jan-2023 17:59:25

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

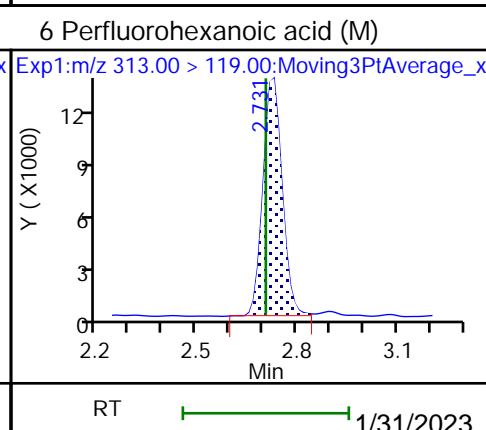
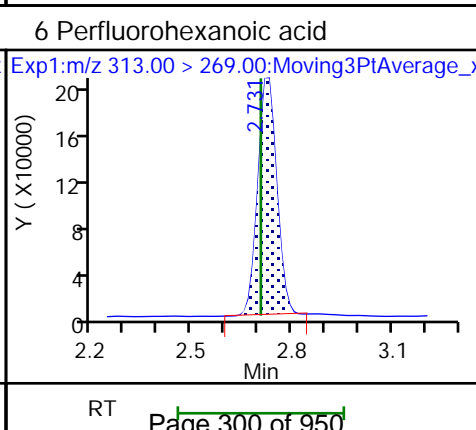
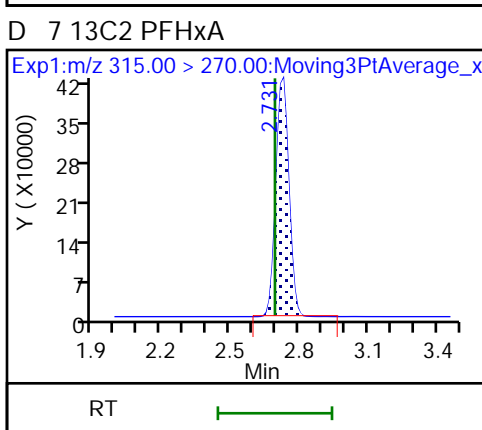
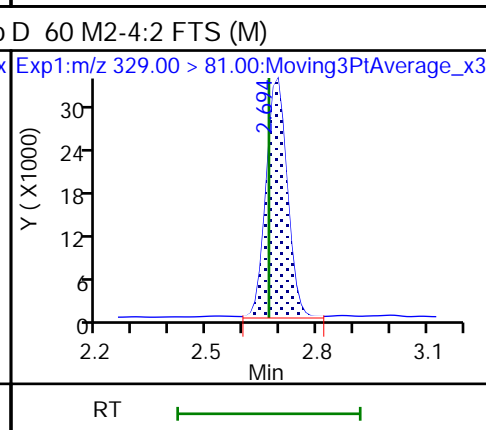
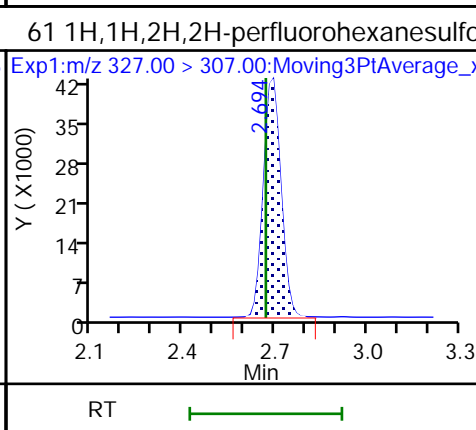
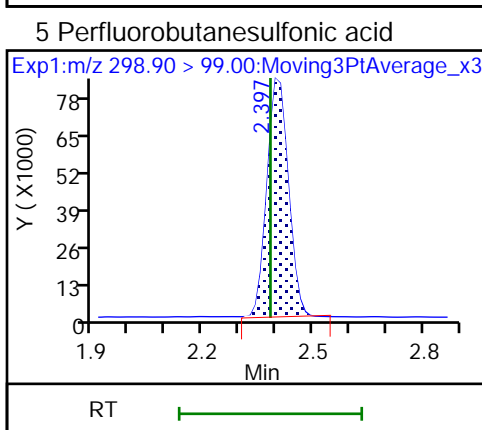
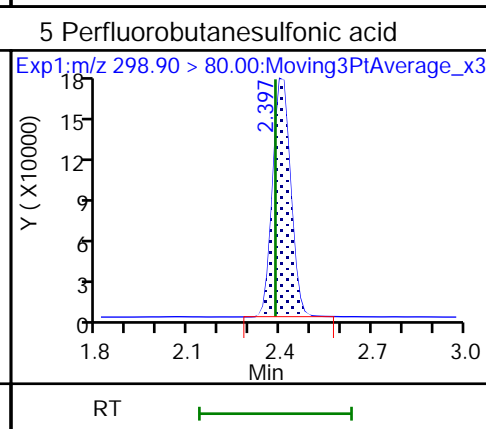
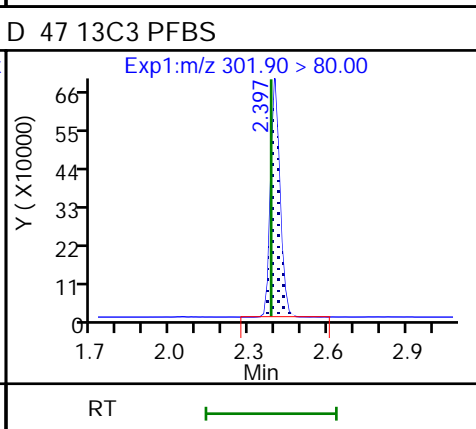
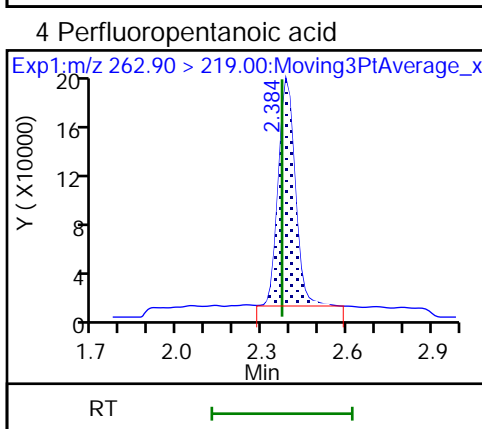
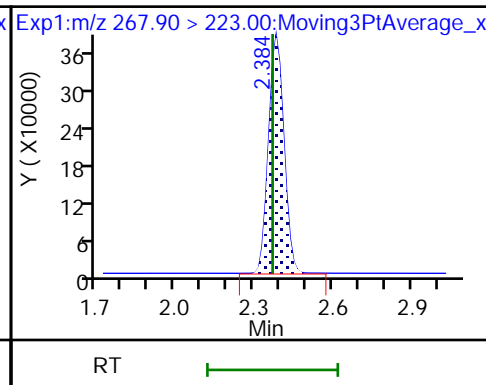
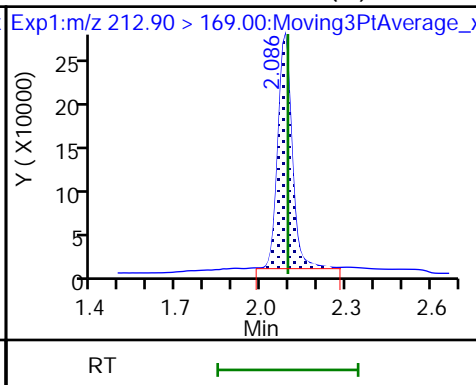
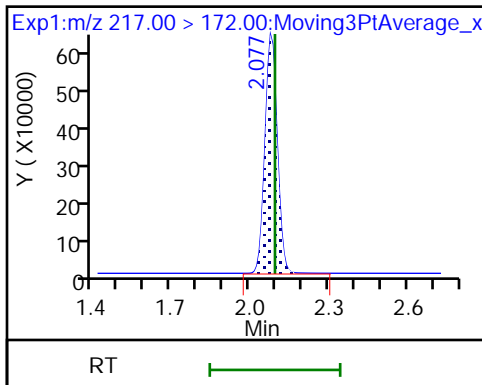
Method: PFC_LC812

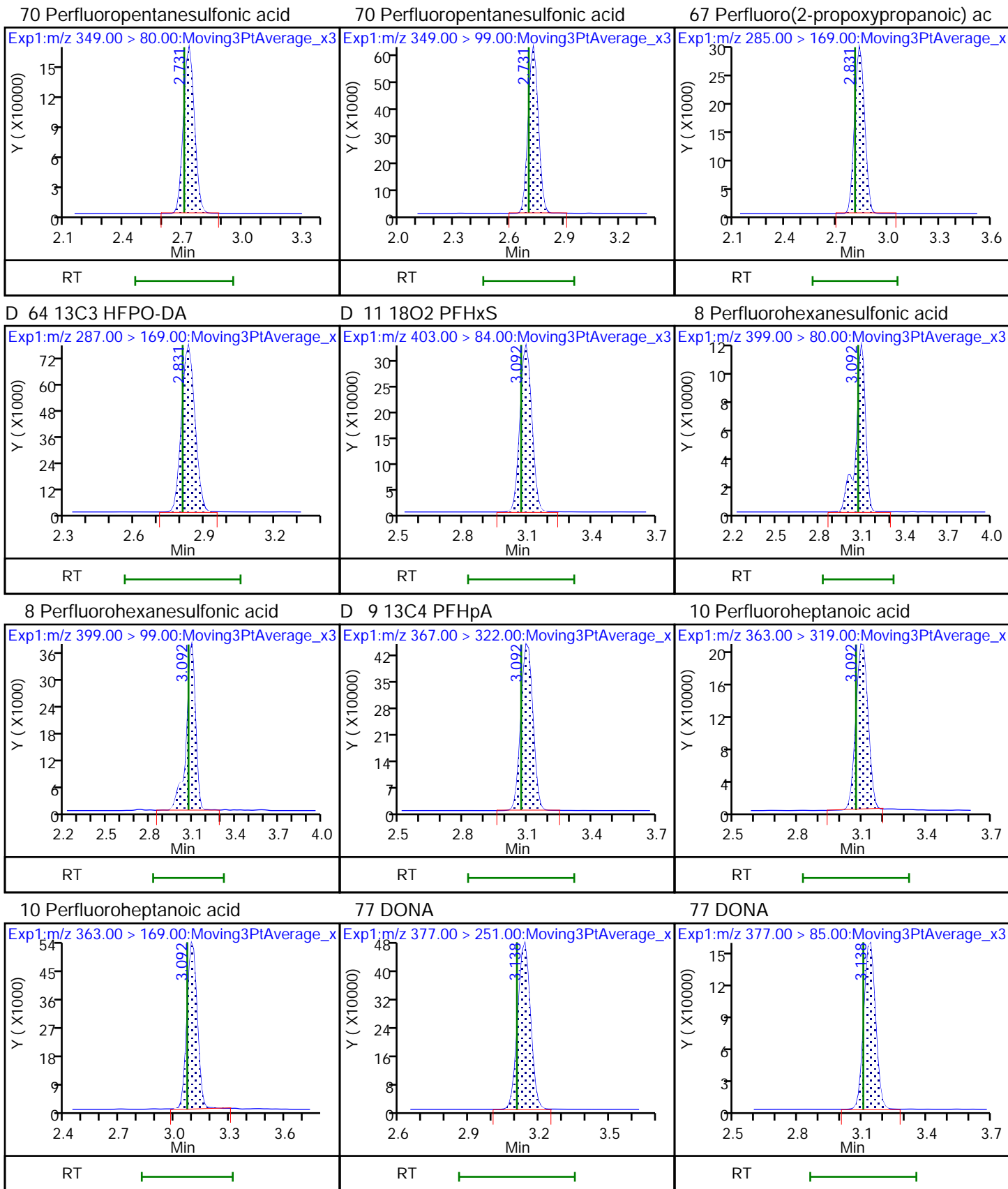
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

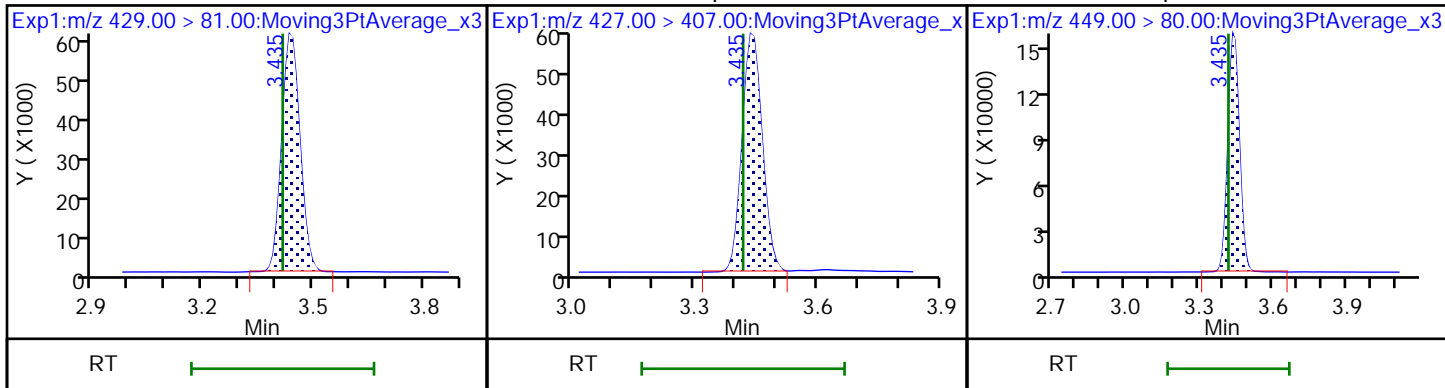




D 12 M2-6:2 FTS

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

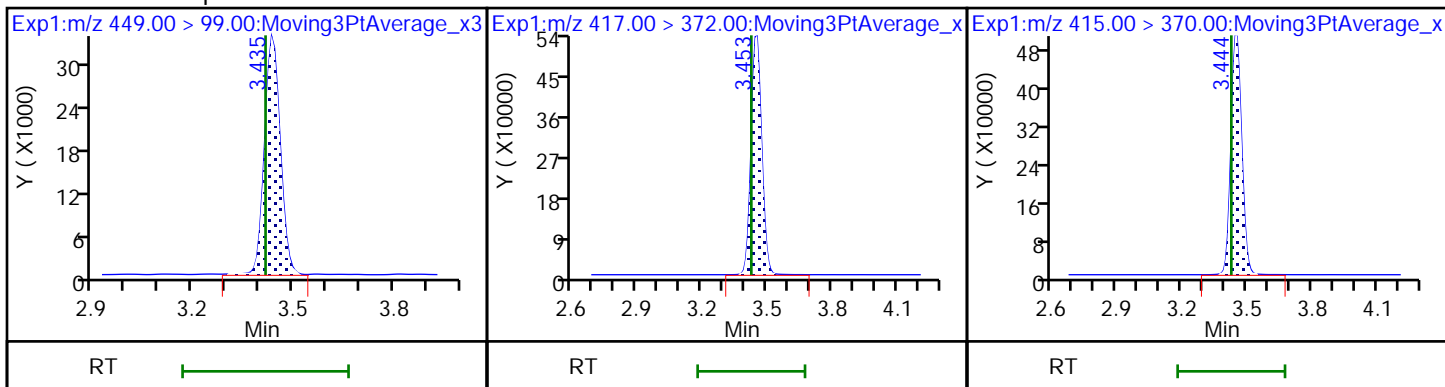
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

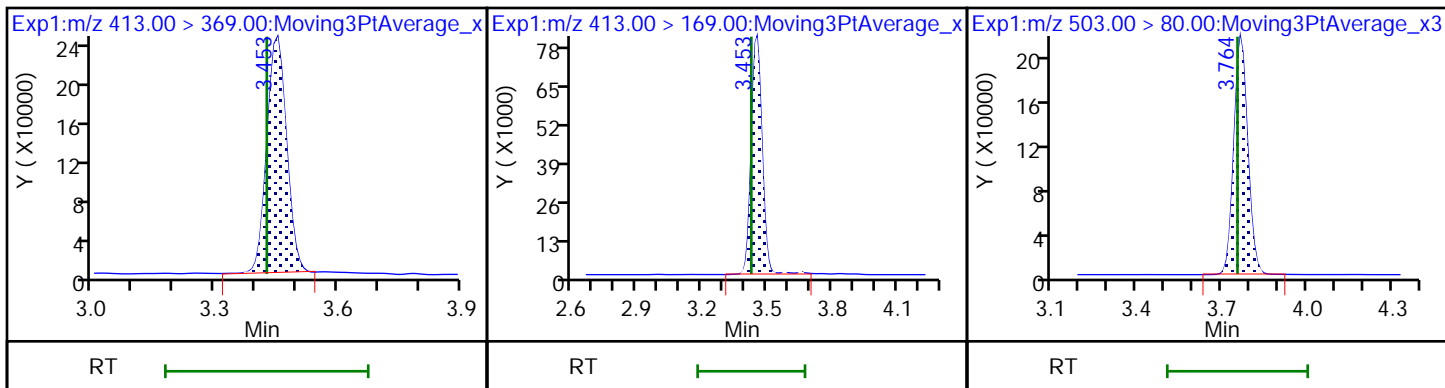
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

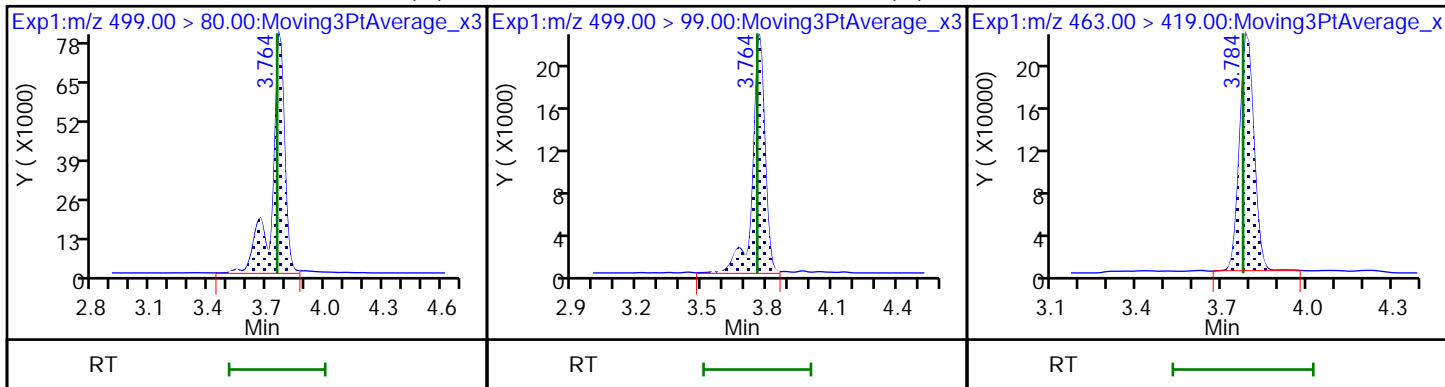
D 18 13C4 PFOS

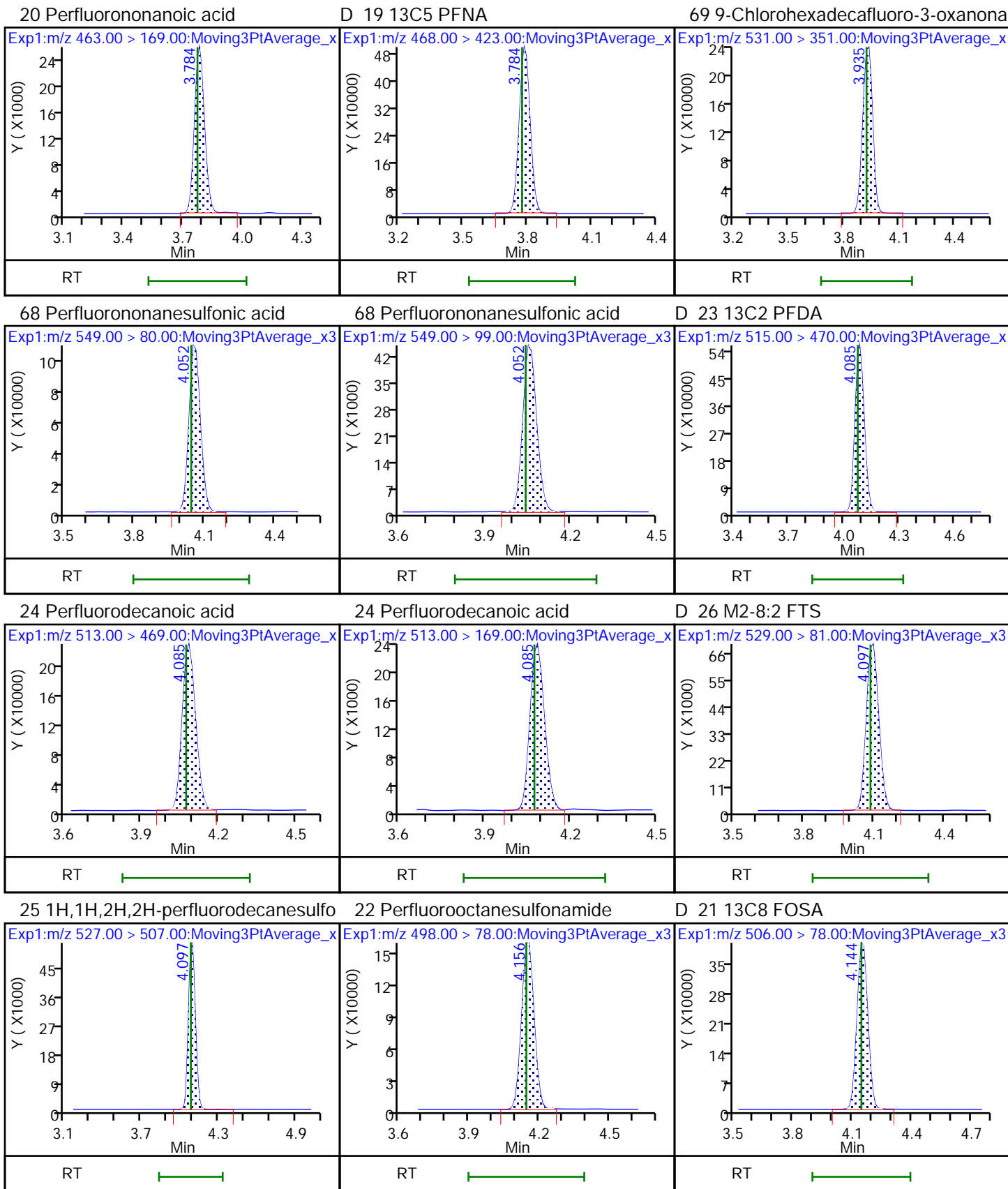


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

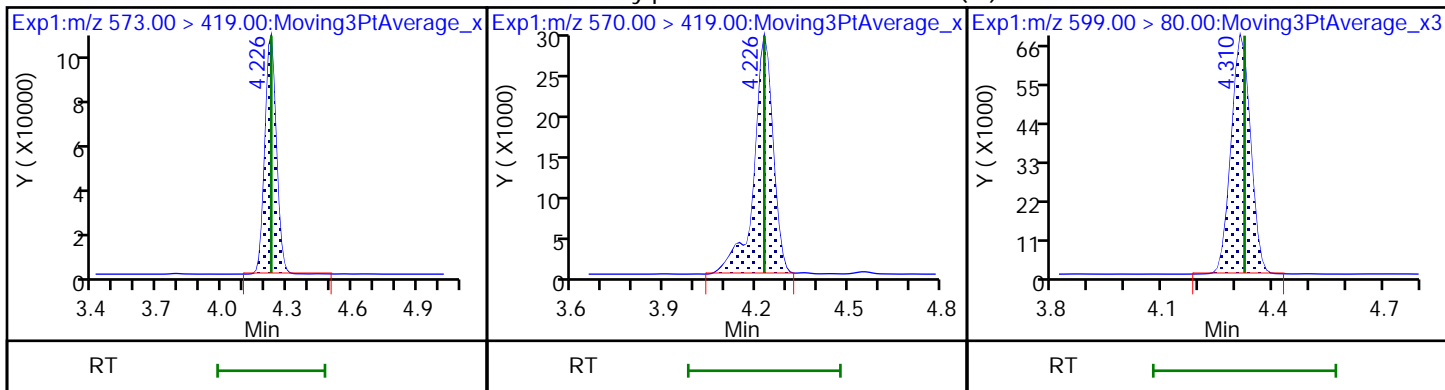
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

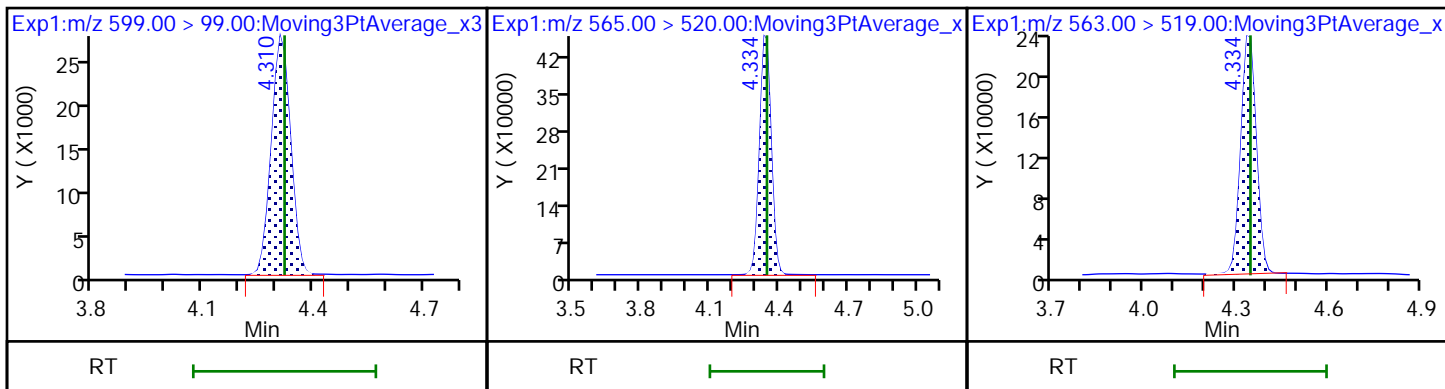
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

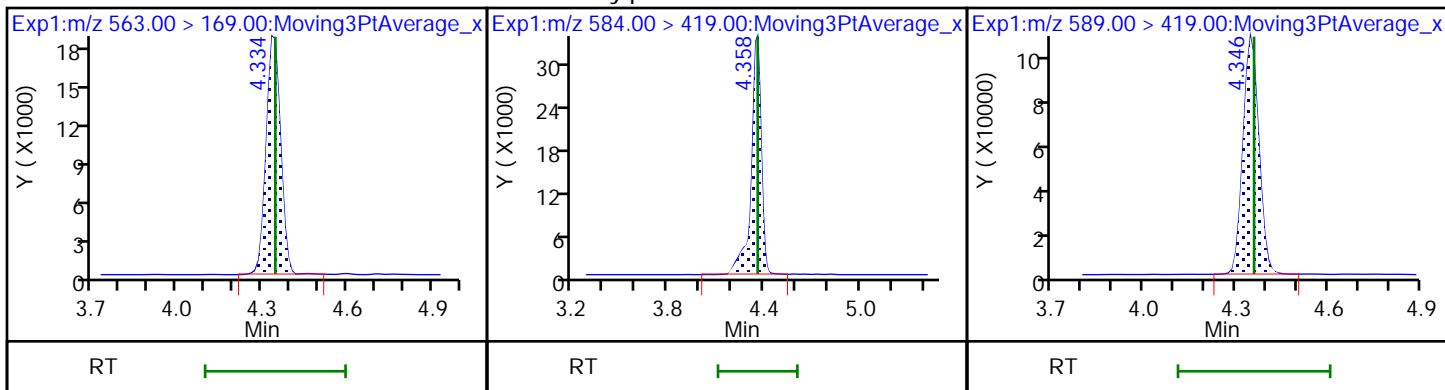
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid

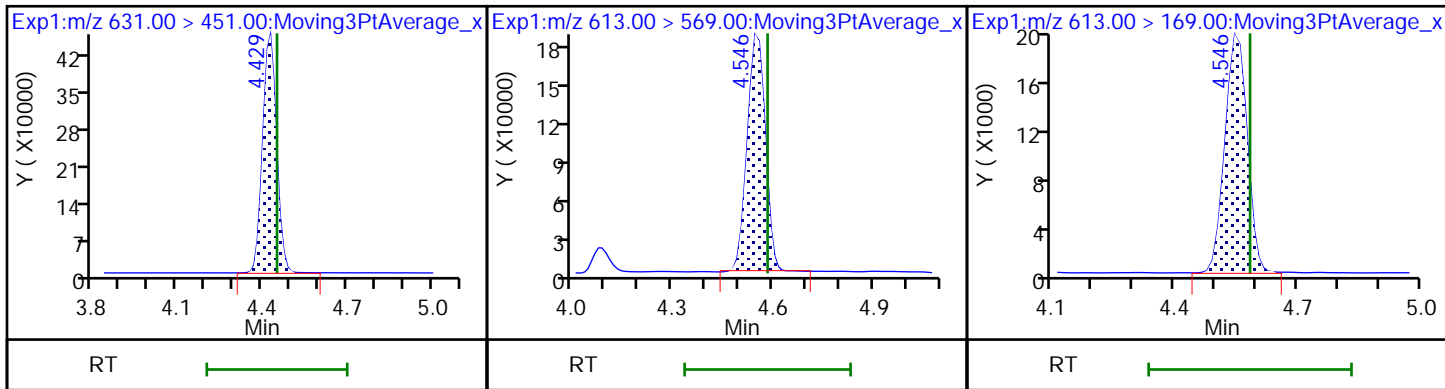
D 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

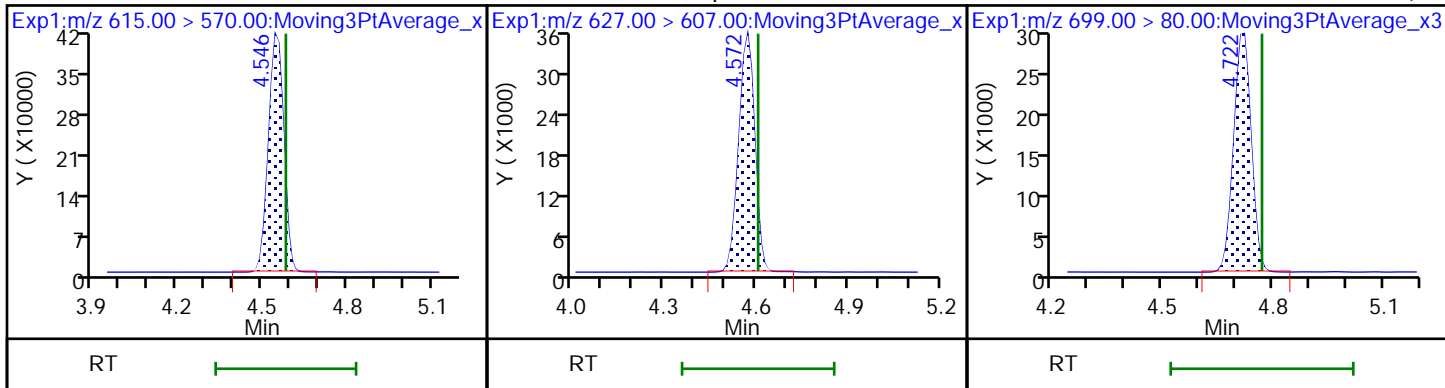
37 Perfluorododecanoic acid



D 36 13C2 PFD0A

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

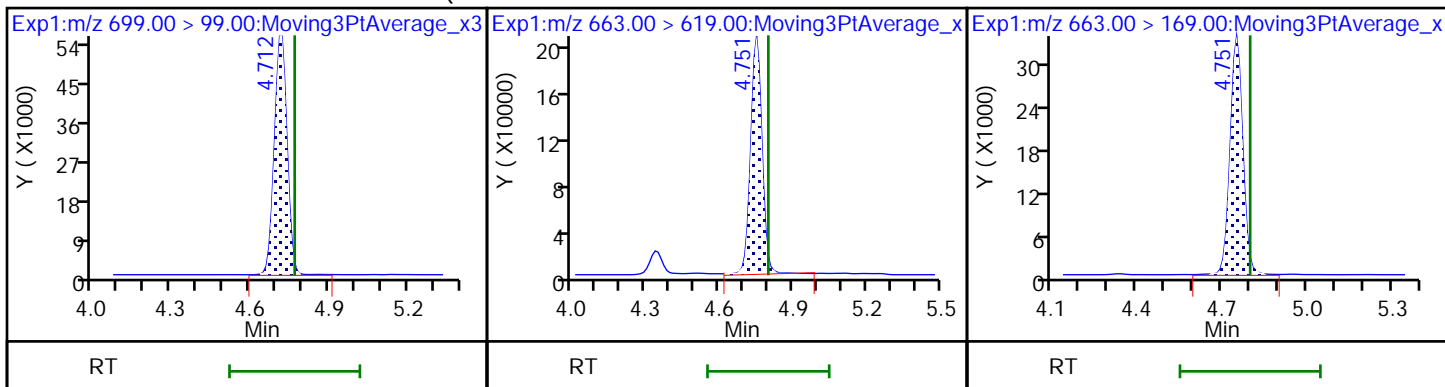
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

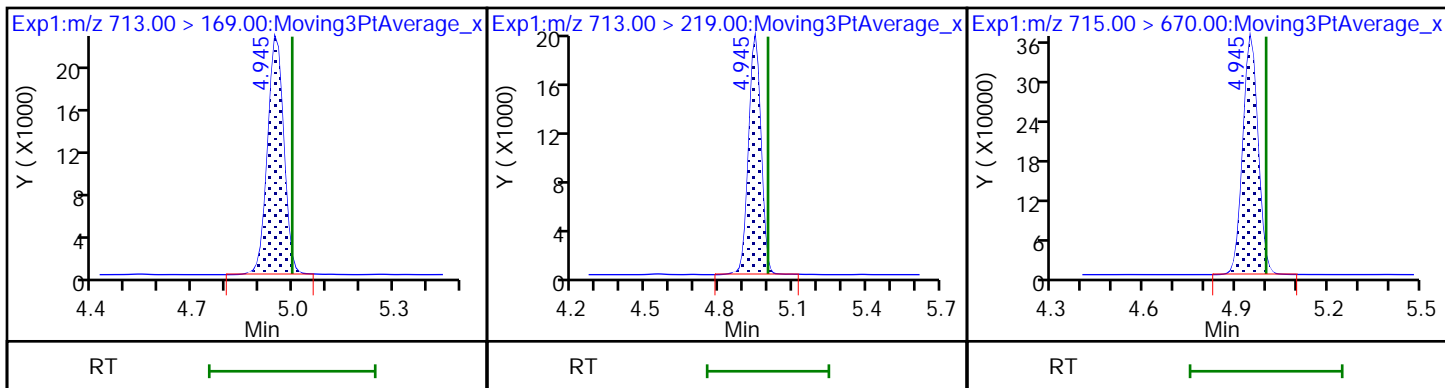
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

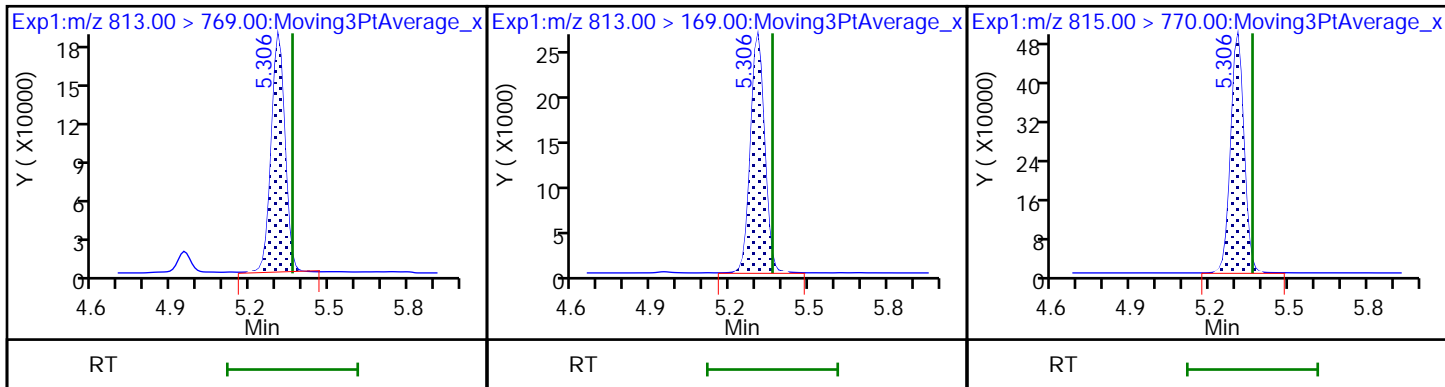
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

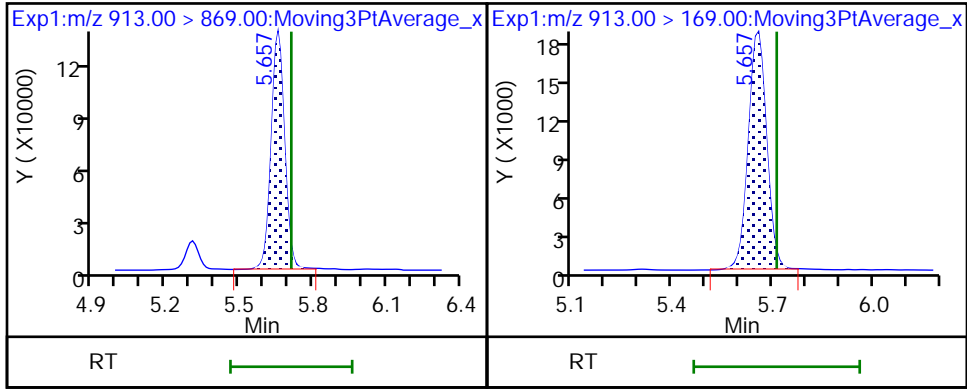
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

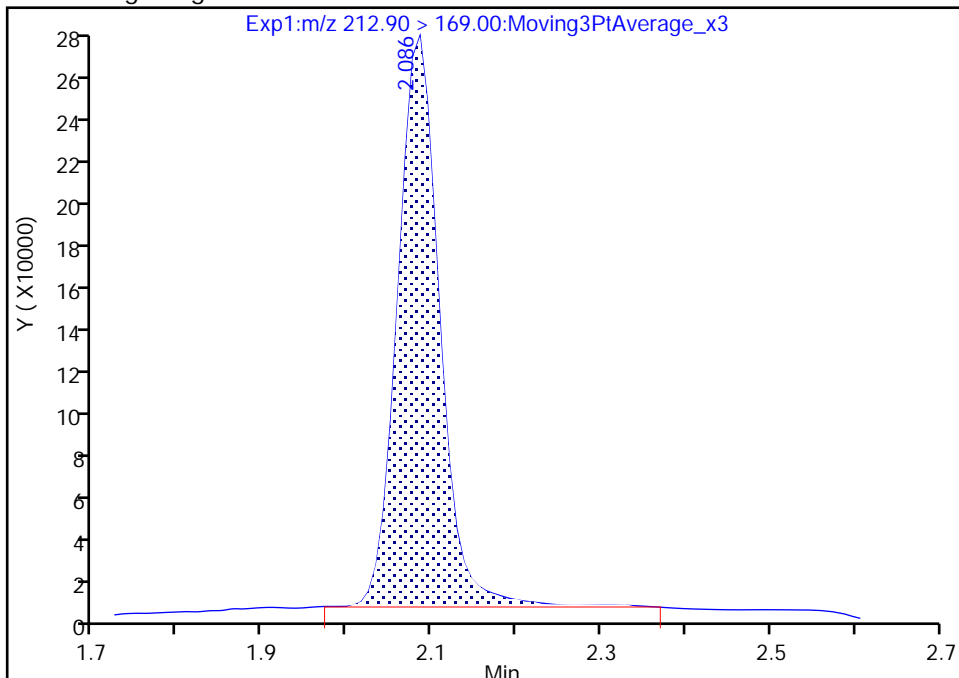
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Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

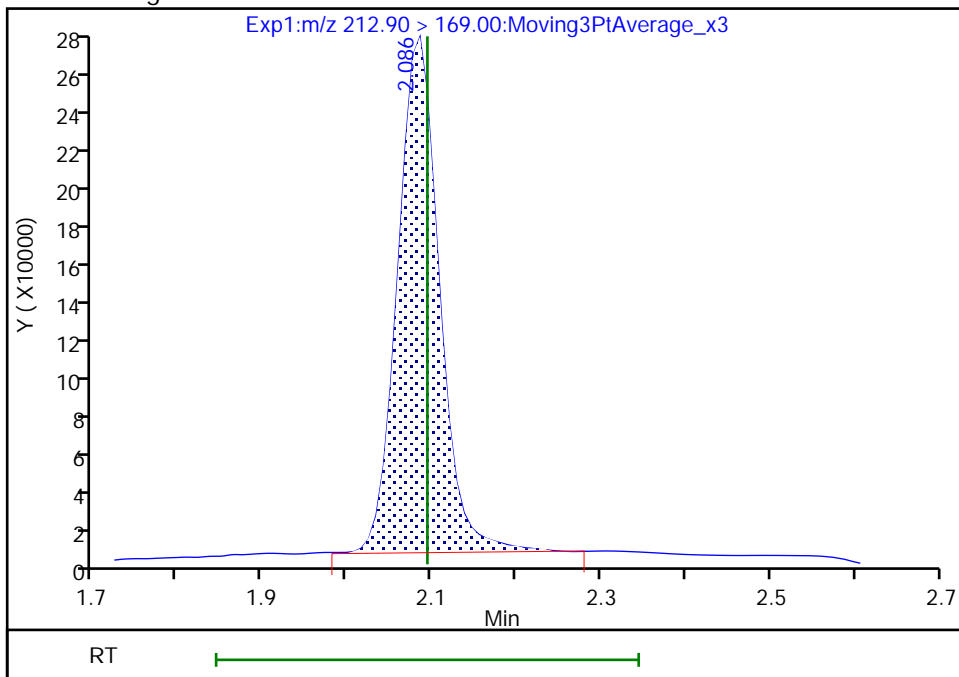
RT: 2.09
Area: 915516
Amount: 0.498775
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 904017
Amount: 0.529126
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:25:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

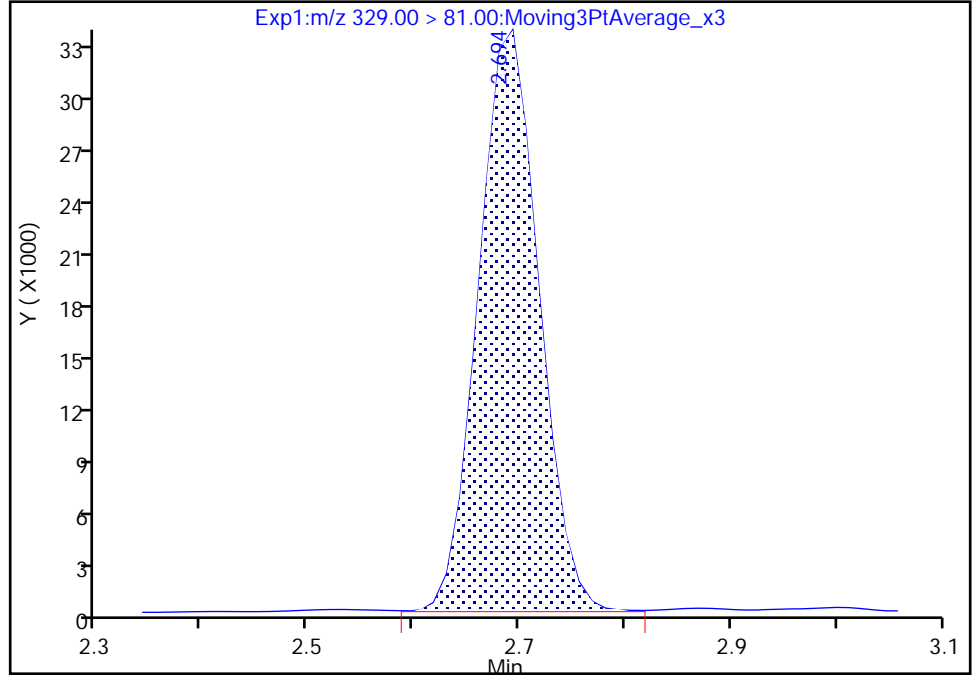
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395
Signal: 1

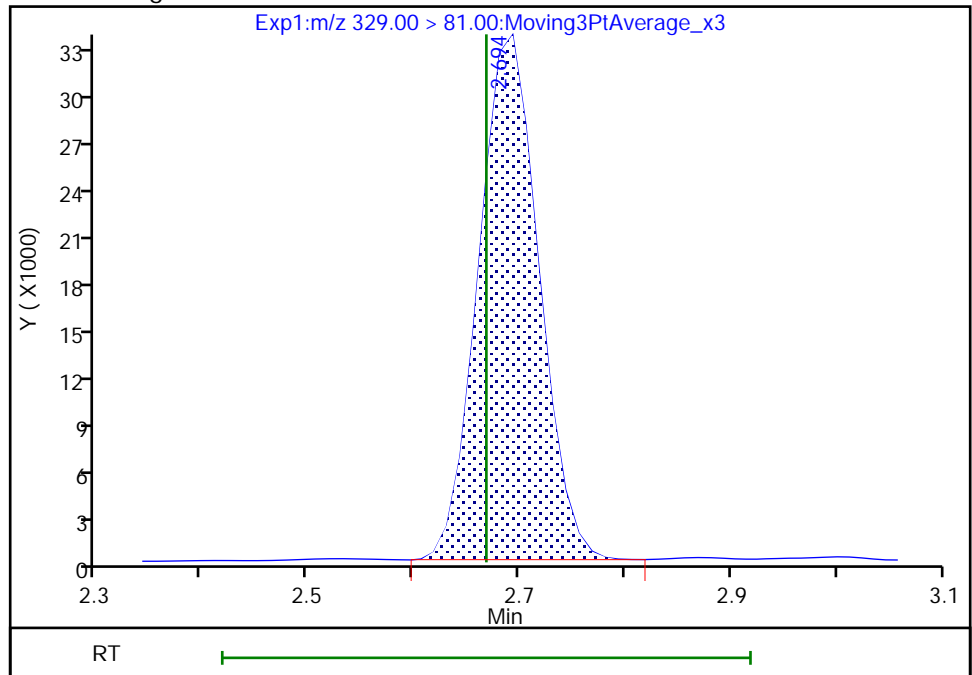
RT: 2.69
Area: 133245
Amount: 1.158042
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 132646
Amount: 1.152840
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:41:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

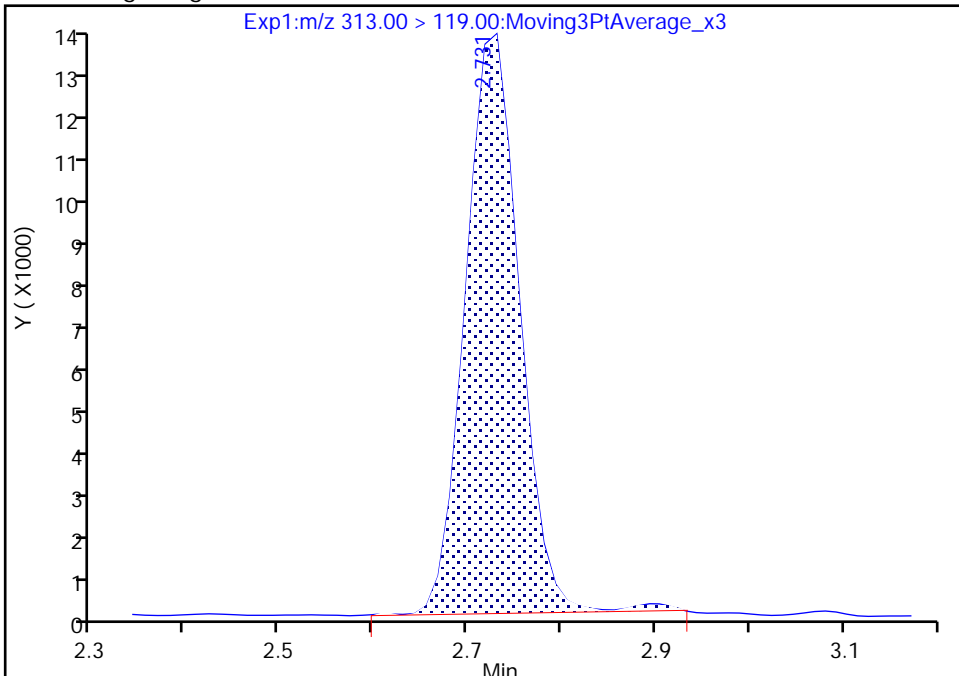
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Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

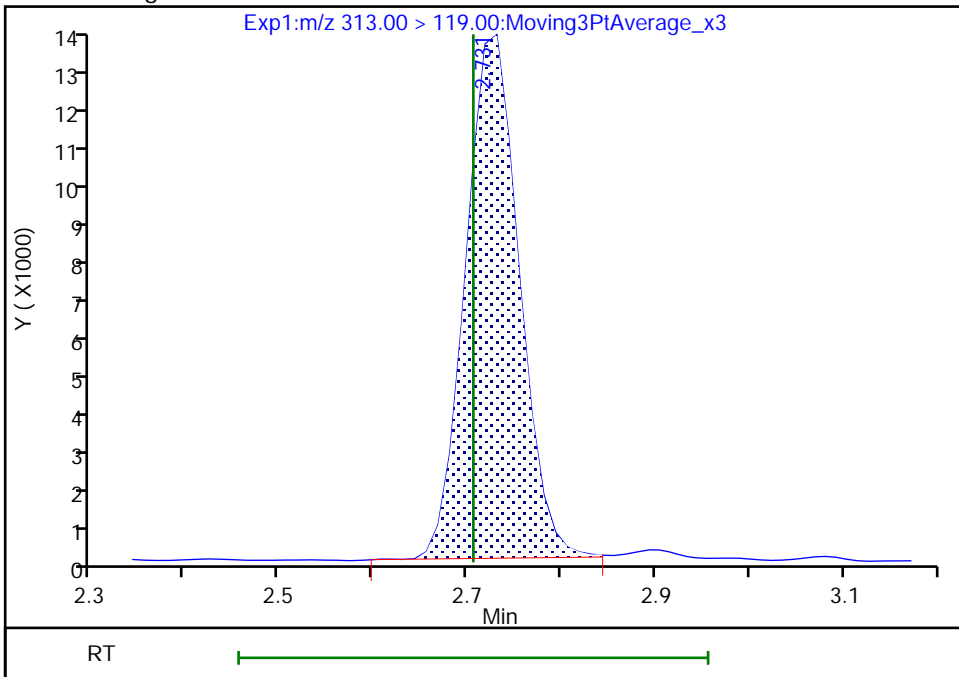
RT: 2.73
Area: 54440
Amount: 0.574335
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 53873
Amount: 0.574335
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:42:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

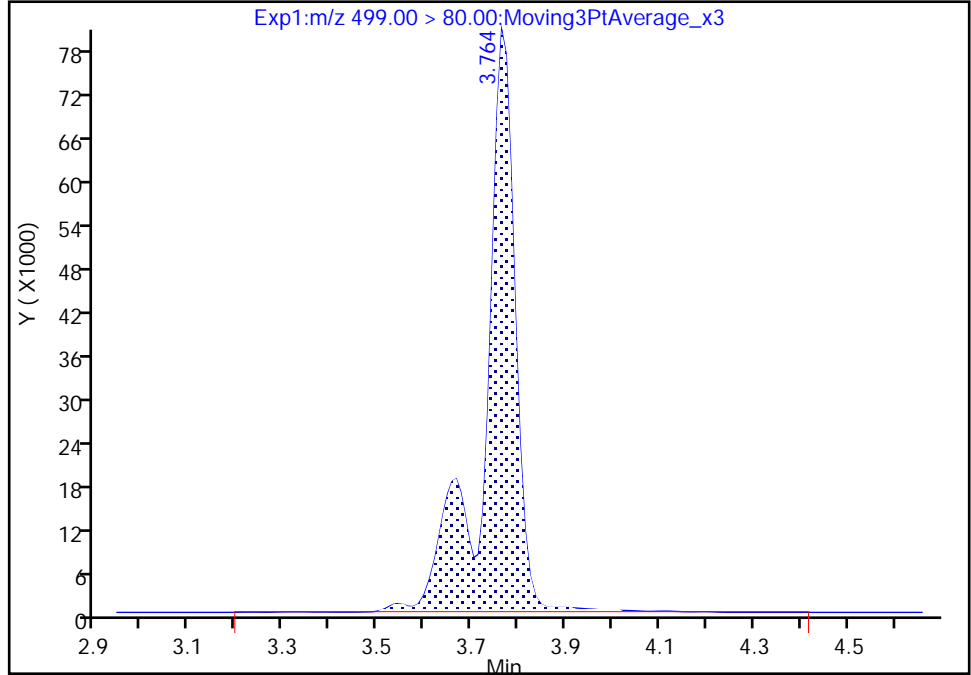
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Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

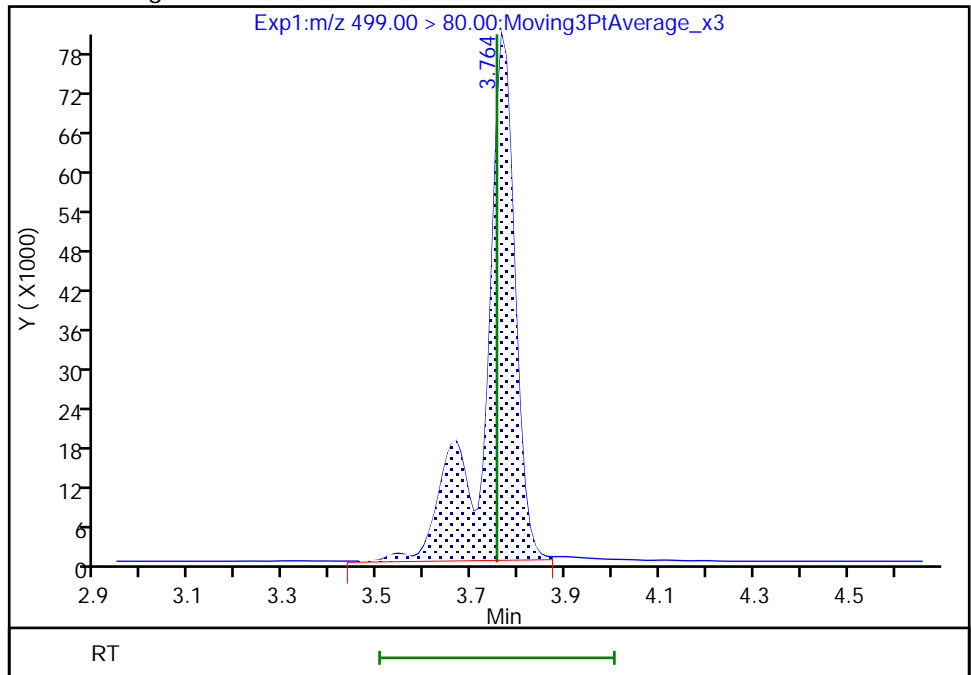
RT: 3.76
Area: 373514
Amount: 0.498406
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 365984
Amount: 0.491301
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:42:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

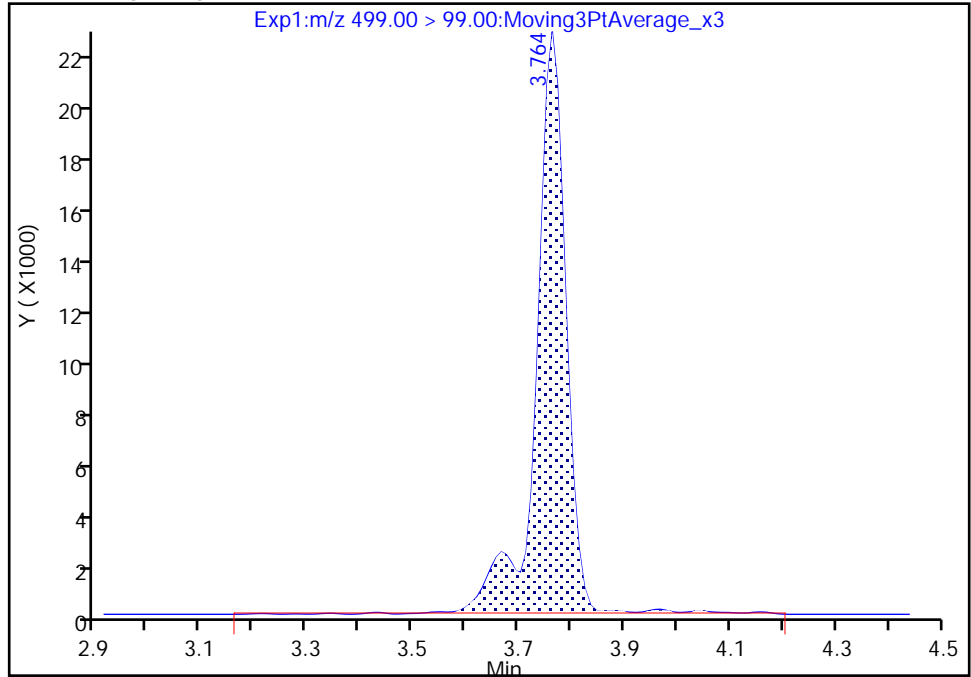
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Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

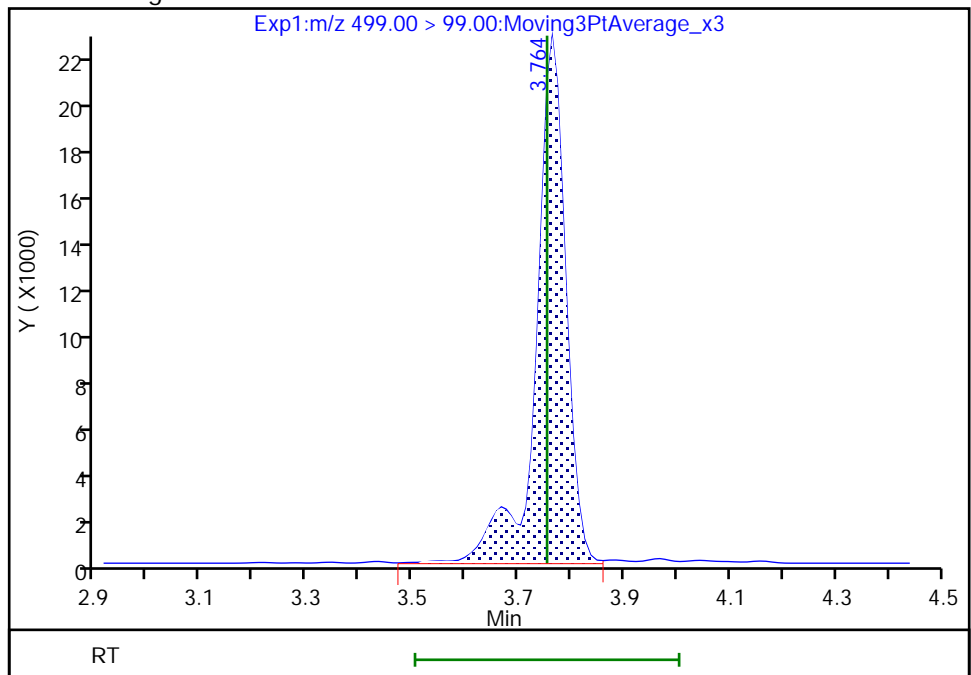
RT: 3.76
Area: 90910
Amount: 0.498406
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 88101
Amount: 0.491301
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:42:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

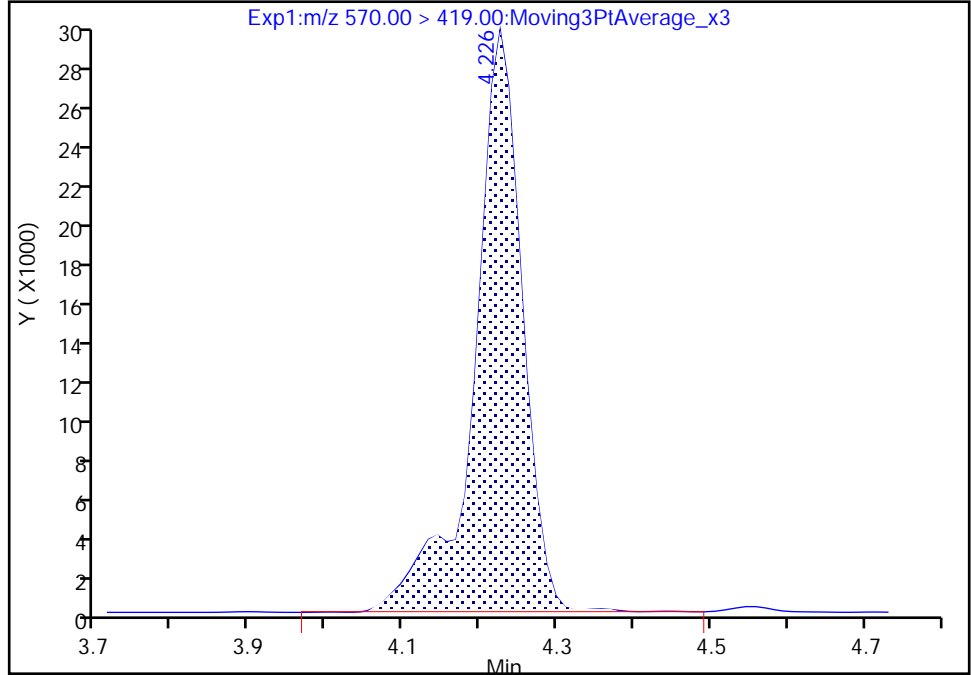
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Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

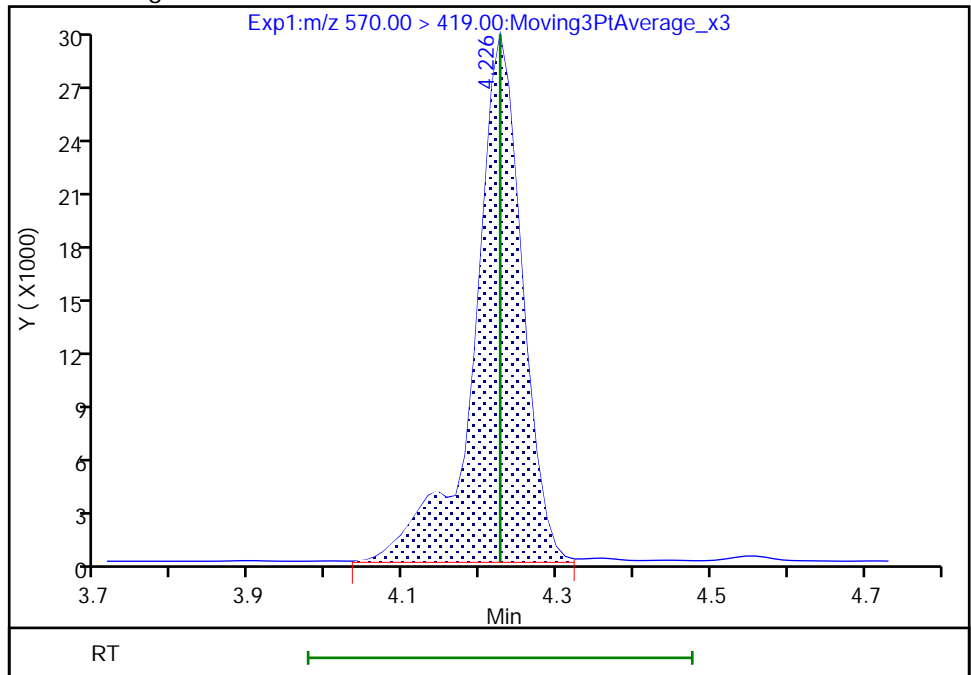
RT: 4.23
Area: 129571
Amount: 0.477269
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 128807
Amount: 0.475922
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:43:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

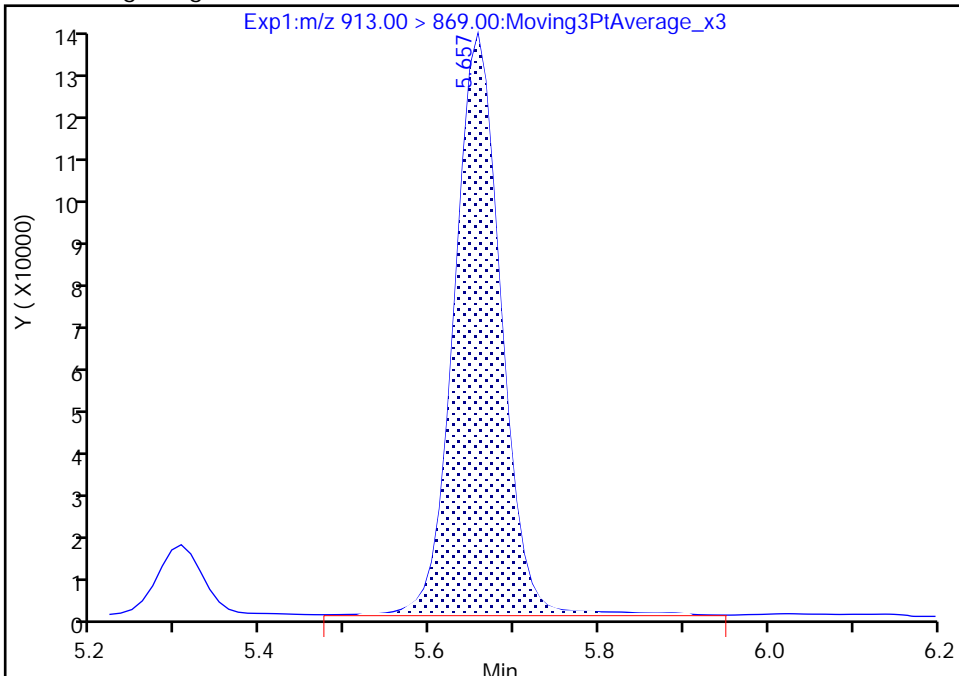
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL07.d
Injection Date: 11-Jan-2023 17:59:25 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

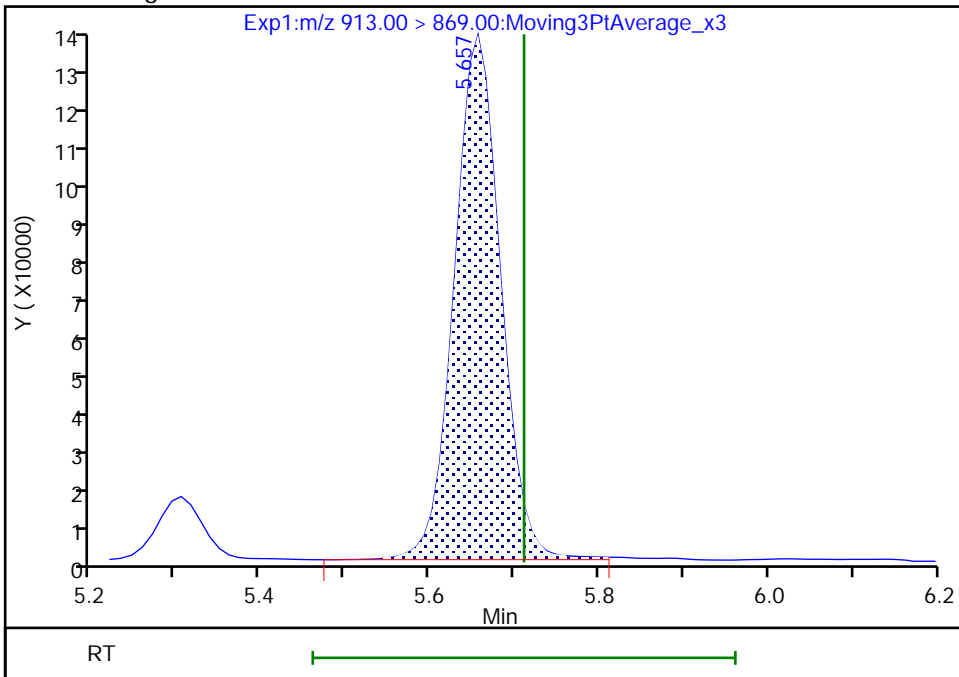
RT: 5.66
Area: 531403
Amount: 0.471300
Amount Units: ng/ml

Processing Integration Results



RT: 5.66
Area: 525342
Amount: 0.468418
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:43:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 313 of 950

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
 Lims ID: ICISAV
 Client ID:
 Sample Type: ICISAV Calib Level: 4
 Inject. Date: 11-Jan-2023 18:07:34 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0053969-008 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: Z1IP Date: 13-Jan-2023 12:16:50

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.094	2.094	0.0	0.611	2145155	1.17	93.2	14373	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.094	0.0	1.000	1680686	0.99		99.0	157	M
D 3 13C5 PFPeA	267.90 > 223.00	2.370	2.370	0.0	0.692	1830527	1.23	98.4	7042	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.370	2.370	0.0	1.000	1533220	0.9142		91.4	50.9	M
D 47 13C3 PFBS	301.90 > 80.00	2.384	2.384	0.0	0.696	1807983	1.11	95.2	160775	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.384	2.384	0.0	1.000	1399644	0.8400	Target=1.99	95.0	2299	
298.90 > 99.00	2.384	2.384	0.0	1.000	666430		2.10(0.99-2.98)	95.0	533	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.669	2.669	0.0	1.000	328155	0.8486	90.9	2543	
D 60 M2-4:2 FTS	329.00 > 81.00	2.669	2.669	0.0	0.779	152562	1.16	99.0	215	
D 7 13C2 PFHxA	315.00 > 270.00	2.694	2.694	0.0	0.786	1910330	1.24	98.9	13131	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.706	2.706	0.0	1.005	1433323	0.8902	Target=13.02	89.0	287	
313.00 > 119.00	2.694	2.706	-0.012	1.000	108894		13.16(6.51-19.53)	89.0	193	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.706	2.706	0.0	0.882	1207423	0.8828	Target=2.73	94.1	1620	
349.00 > 99.00	2.706	2.706	0.0	0.882	416005		2.90(1.37-4.10)	94.1	1317	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.806	2.806	0.0	1.000	243821	0.9669		96.7	3303	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.806	2.806	0.0	0.819	315350	1.18		94.2	3089	
D 11 18O2 PFHxS										
403.00 > 84.00	3.069	3.069	0.0	0.896	1307522	1.10		93.0	6642	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.069	3.069	0.0	1.000	958204	0.7895	Target=3.13	86.8	2085	
399.00 > 99.00	3.069	3.069	0.0	1.000	301335		3.18(1.57-4.70)	86.8	548	
D 9 13C4 PFHpA										
367.00 > 322.00	3.069	3.069	0.0	0.896	1788525	1.16		92.5	8986	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.069	3.069	0.0	1.000	1500383	0.9847	Target=3.92	98.5	272	
363.00 > 169.00	3.069	3.069	0.0	1.000	365521		4.10(1.96-5.88)	98.5	668	
77 DONA										
377.00 > 251.00	3.104	3.104	0.0	0.827	3494924	0.8949	Target=3.04	95.0	2370	
377.00 > 85.00	3.104	3.104	0.0	0.827	1180453		2.96(1.52-4.56)	95.0	2132	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.417	3.417	0.0	0.997	208801	1.11		93.9	970	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.417	3.417	0.0	1.000	368264	0.9146		96.5	512	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.417	3.417	0.0	0.910	839730	0.8474	Target=4.66	89.0	3638	
449.00 > 99.00	3.417	3.417	0.0	0.910	182774		4.59(2.33-6.99)	89.0	1145	
D 14 13C4 PFOA										
417.00 > 372.00	3.426	3.426	0.0	1.000	2017935	1.23		98.5	13600	
* 62 13C2 PFOA										
415.00 > 370.00	3.426	3.426	0.0		2000878	1.25			6249	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.426	3.426	0.0	1.000	1483412	0.8443	Target=3.01	84.4	105	M
413.00 > 169.00	3.426	3.426	0.0	1.000	547243		2.71(1.50-4.51)	84.4	1098	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.096	813855	1.13		94.3	3970	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	686438	0.8297	Target=4.13	89.4	746	M
499.00 > 99.00	3.754	3.754	0.0	1.000	162303		4.23(2.07-6.20)	89.4	543	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.774	0.0	1.000	1427691	0.9155	Target=8.58	91.5	252	
463.00 > 169.00	3.774	3.774	0.0	1.000	162574		8.78(4.29-12.87)	91.5	1778	
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.774	0.0	1.101	1908294	1.19		95.6	7856	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	1587156	0.8036		86.2	4936	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.043	4.043	0.0	1.077	635724	0.9252	Target=2.32	96.4	5246	
549.00 > 99.00	4.043	4.043	0.0	1.077	268638		2.37(1.16-3.48)	96.4	1553	
D 23 13C2 PFDA										
515.00 > 470.00	4.074	4.074	0.0	1.189	1794868	1.10		87.6	5242	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.074	4.074	0.0	1.000	1508795	0.9827	Target=10.61	98.3	518	
513.00 > 169.00	4.074	4.074	0.0	1.000	135593		11.13(5.30-15.91)	98.3	520	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.085	4.085	0.0	1.192	244119	1.04		86.9	1360	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.085	4.085	0.0	1.000	323636	0.8751		91.4	3421	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	1146375	0.9243		92.4	1853	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.210	1541478	1.16		92.6	3219	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.233	391757	1.22		97.3	1072	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	260489	0.9218		92.2	646	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	481722	0.9404	Target=2.46	97.6	6608	
599.00 > 99.00	4.322	4.322	0.0	1.151	196615		2.45(1.23-3.69)	97.6	2018	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.268	1802127	1.27		102	10311	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	1251894	0.7954	Target=11.25	79.5	354	M
563.00 > 169.00	4.346	4.346	0.0	1.000	121162		10.33(5.62-16.87)	79.5	1264	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.000	269901	0.9064		90.6	1203	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.272	400616	1.29		104	891	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.186	2812735	0.9203		97.7	4325	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.584	4.584	0.0	1.000	1191739	0.9678	Target=8.15	96.8	146	
613.00 > 169.00	4.584	4.584	0.0	1.000	147104		8.10(4.08-12.23)	96.8	1444	
D 36 13C2 PFDaA										
615.00 > 570.00	4.584	4.584	0.0	1.338	1511917	1.07		85.3	2889	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.606	4.606	0.0	1.128	238306	1.02		106	2371	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.770	4.770	0.0	1.271	192076	0.9231	Target=0.53	95.4	2283	
699.00 > 99.00	4.760	4.770	-0.010	1.268	373263		0.51(0.26-0.79)	95.4	3920	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.799	4.799	0.0	1.047	1250877	1.02	Target=6.29	102	137	
663.00 > 169.00	4.799	4.799	0.0	1.047	206340		6.06(3.14-9.43)	102	1485	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	130430	0.8828	Target=0.93	88.3	1825	
713.00 > 219.00	4.998	4.998	0.0	1.000	156673		0.83(0.46-1.39)	88.3	3090	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.459	1479086	1.21		97.0	6332	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.362	5.362	0.0	1.000	1324223	0.9791	Target=6.52	97.9	173	
813.00 > 169.00	5.362	5.362	0.0	1.000	196562		6.74(3.26-9.77)	97.9	2042	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.362	5.362	0.0	1.565	1823724	1.22		97.6	5256	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.711	0.0	1.065	1106340	0.9375	Target=7.39	93.8	164	M
913.00 > 169.00	5.702	5.711	-0.009	1.063	158248		6.99(3.69-11.08)	93.8	958	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00036

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d

Injection Date: 11-Jan-2023 18:07:34

Instrument ID: LC812

Lims ID: ICISAV

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

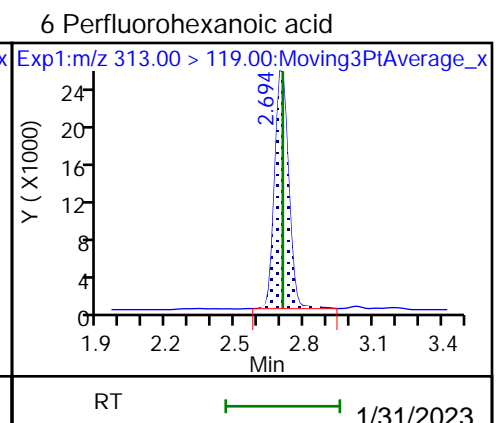
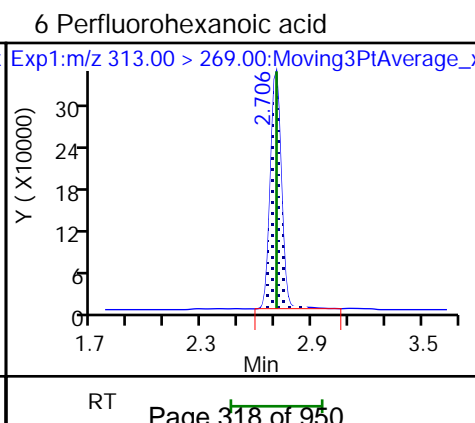
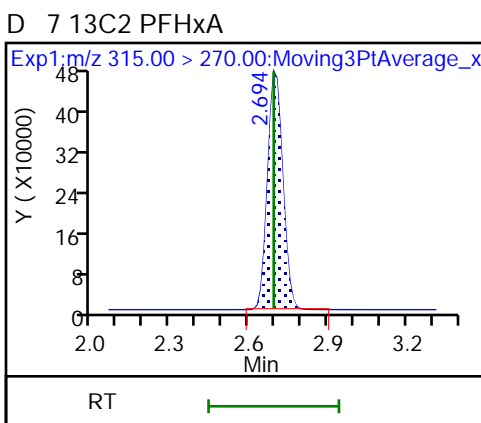
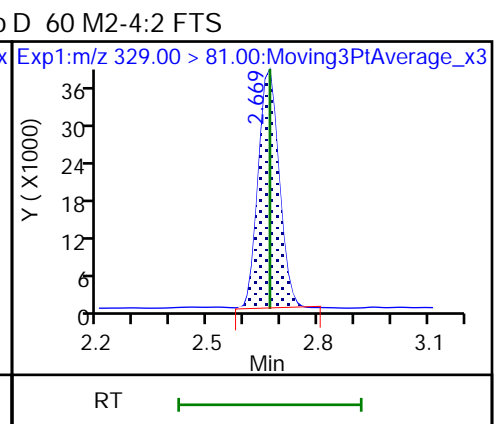
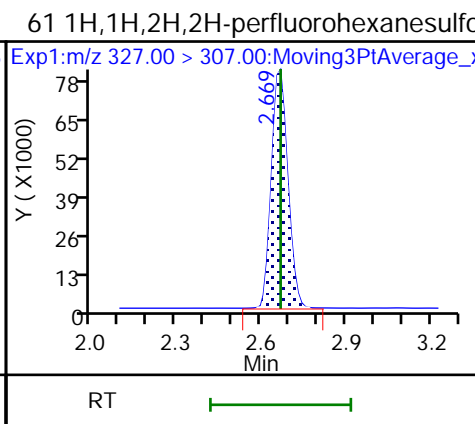
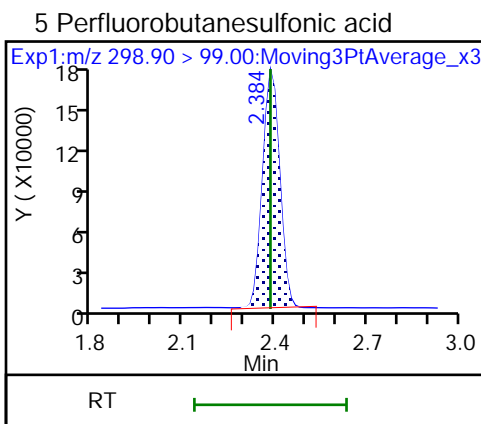
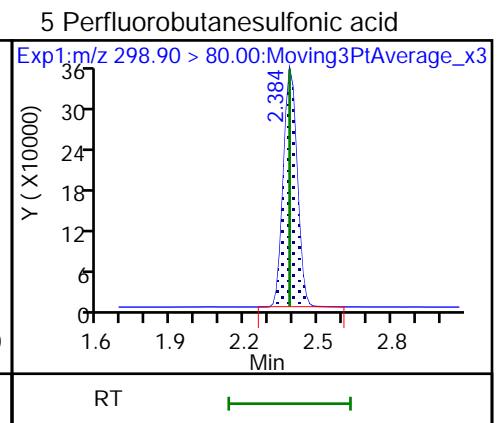
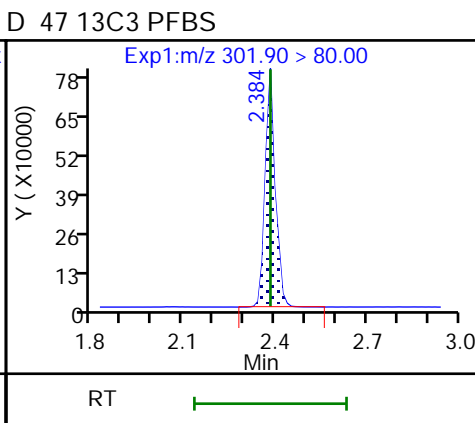
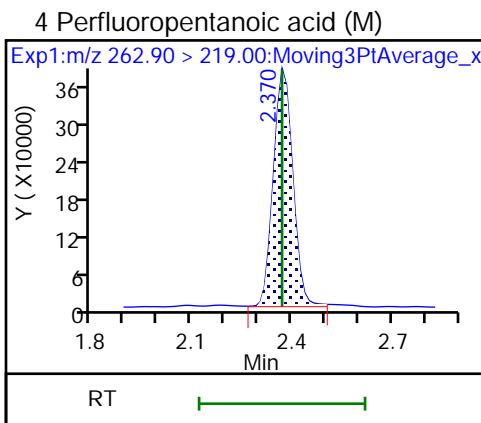
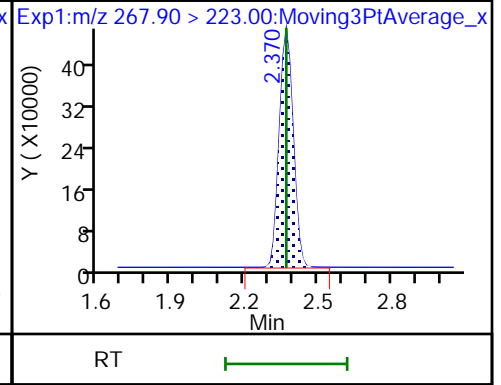
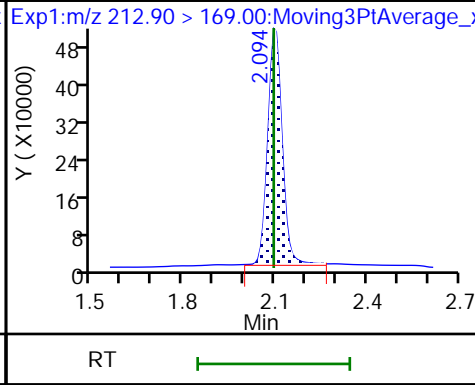
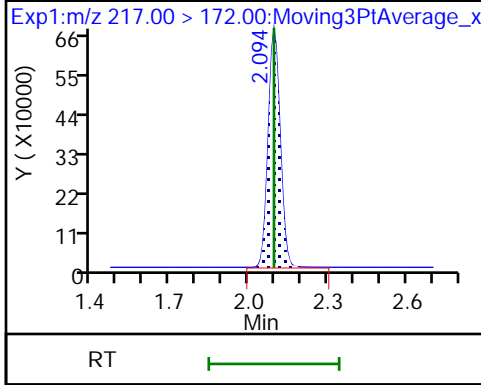
Method: PFC_LC812

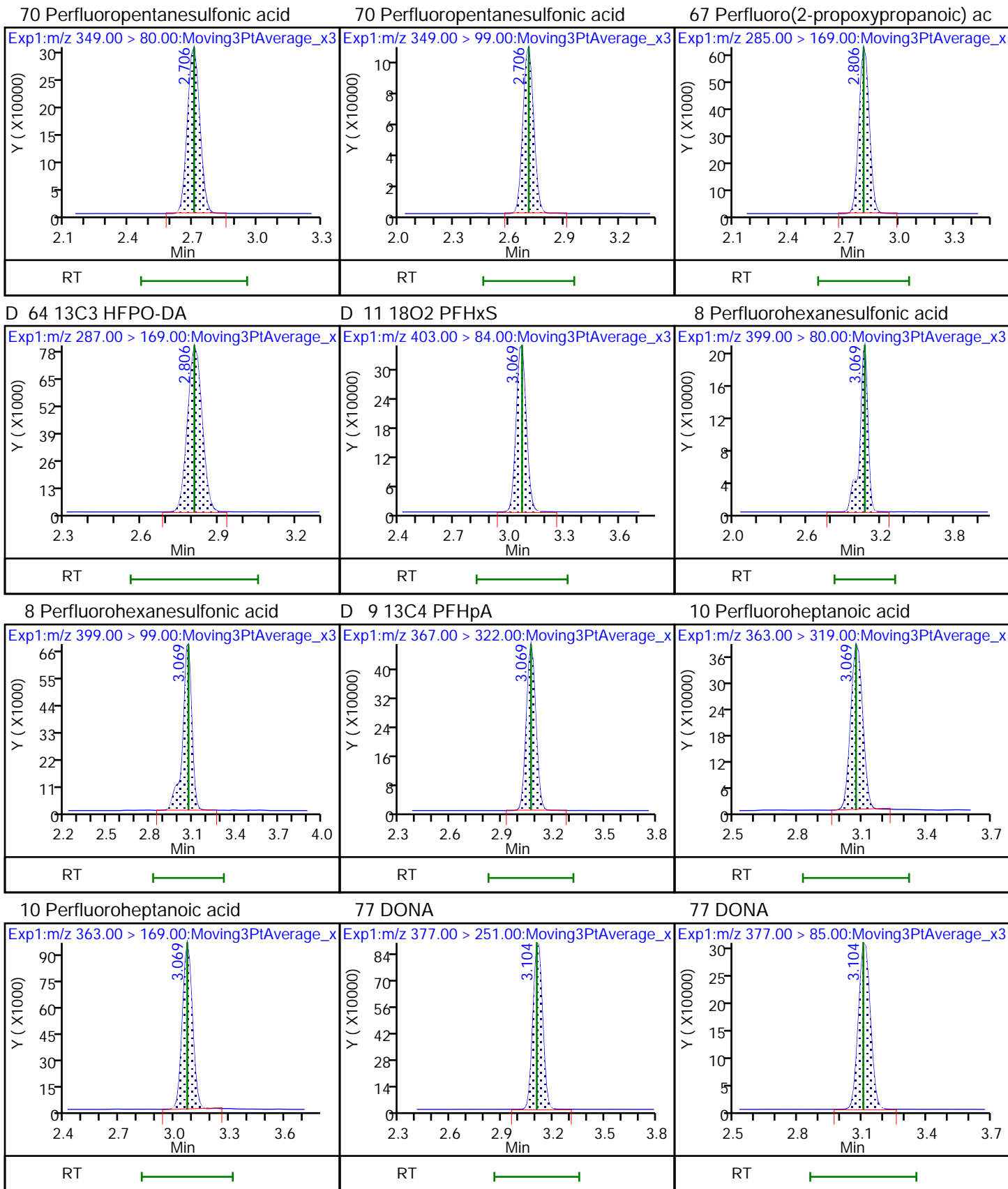
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

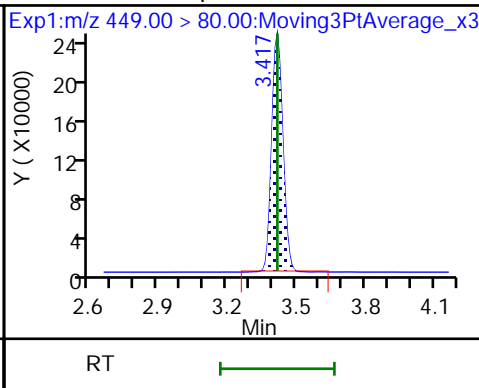
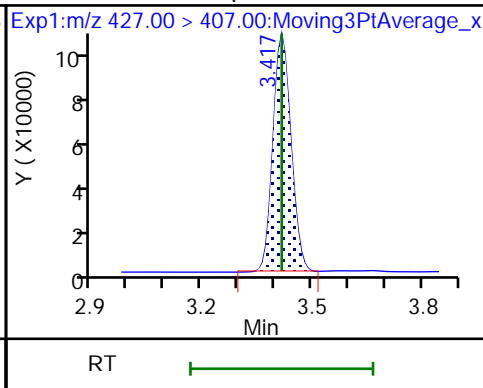
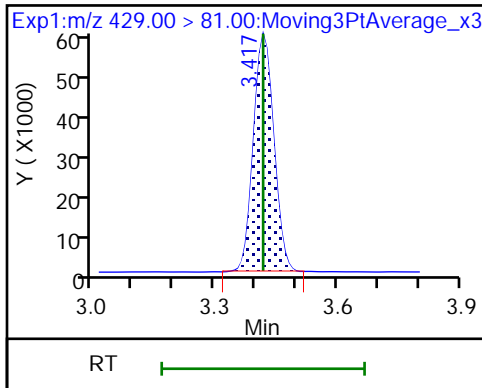




D 12 M2-6:2 FTS

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

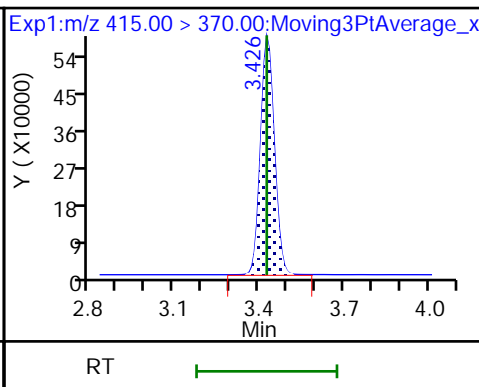
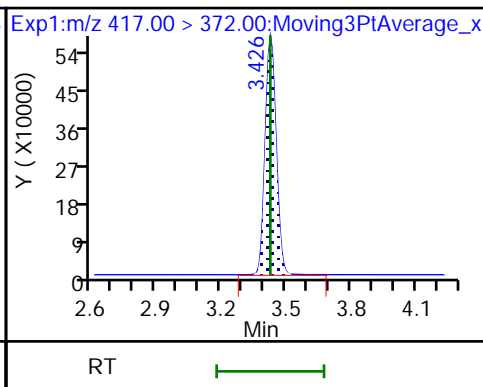
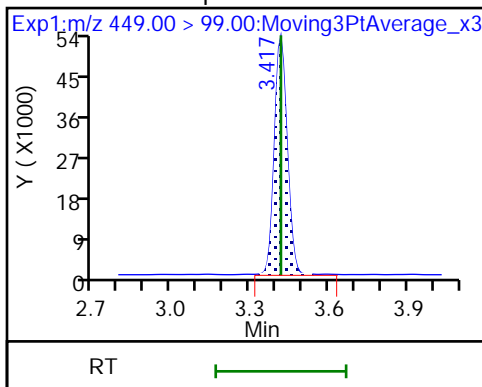
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

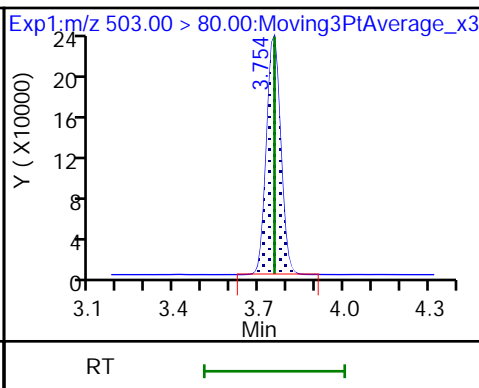
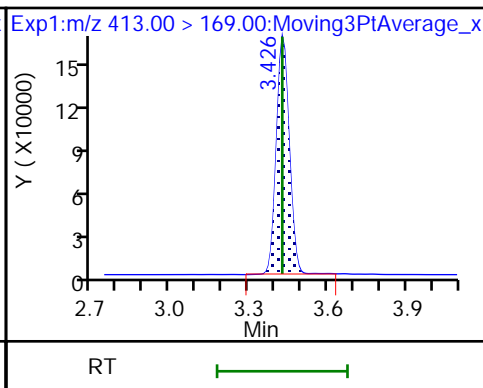
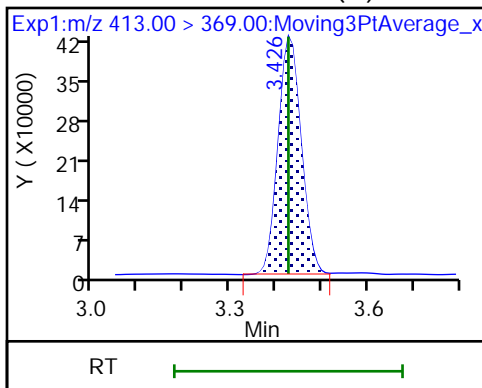
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

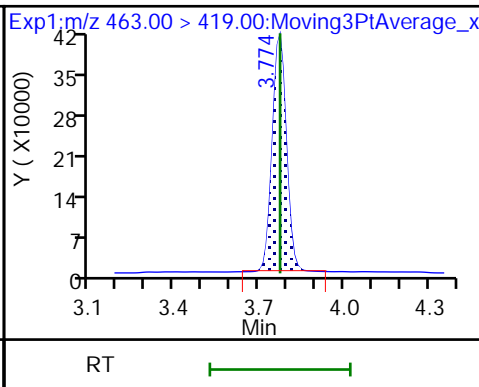
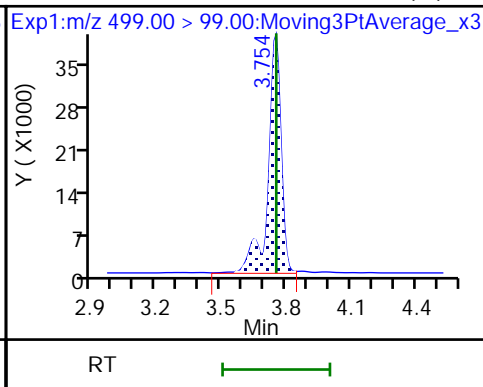
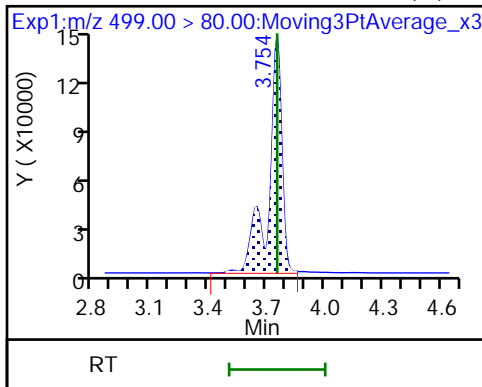
D 18 13C4 PFOS

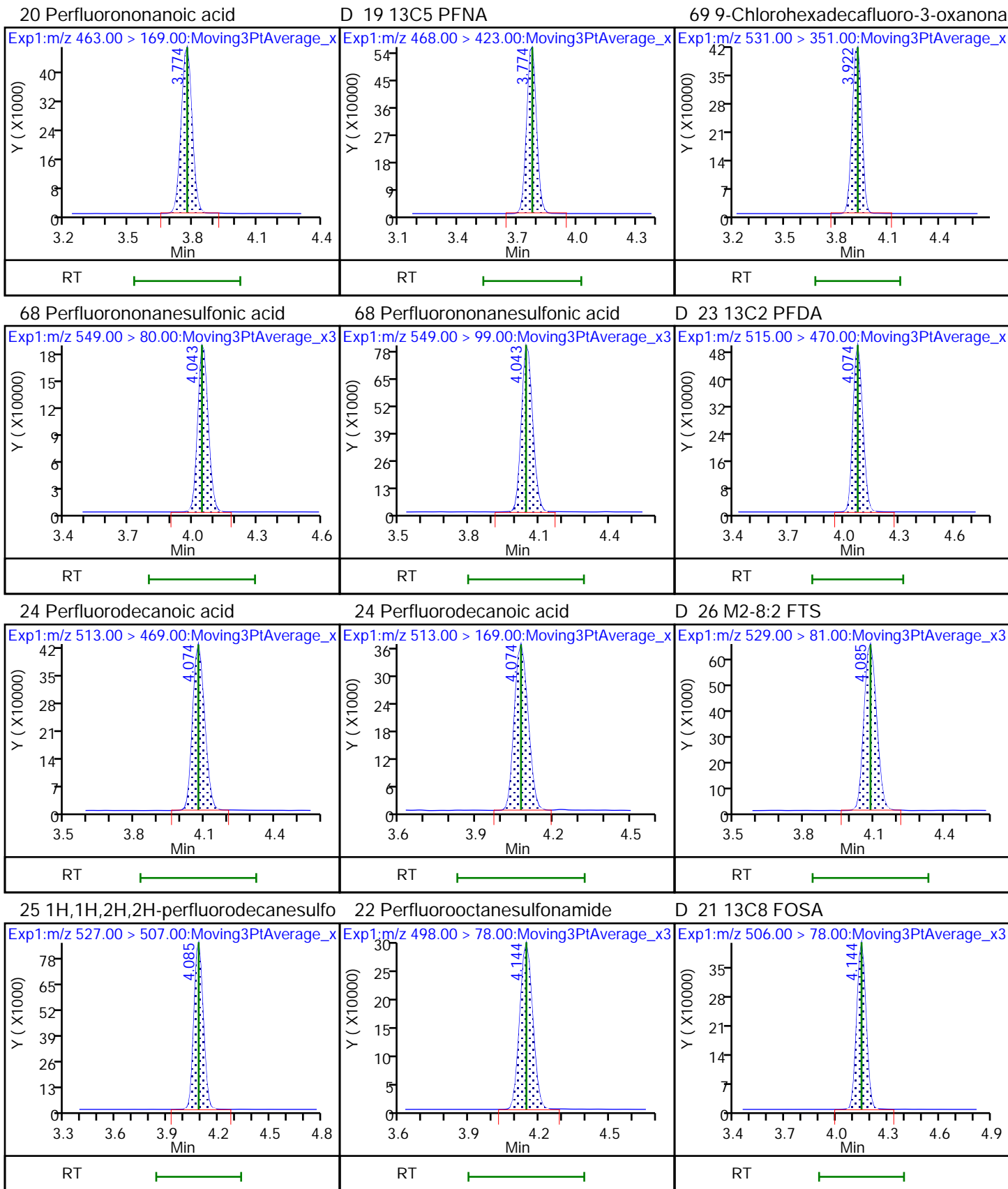


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

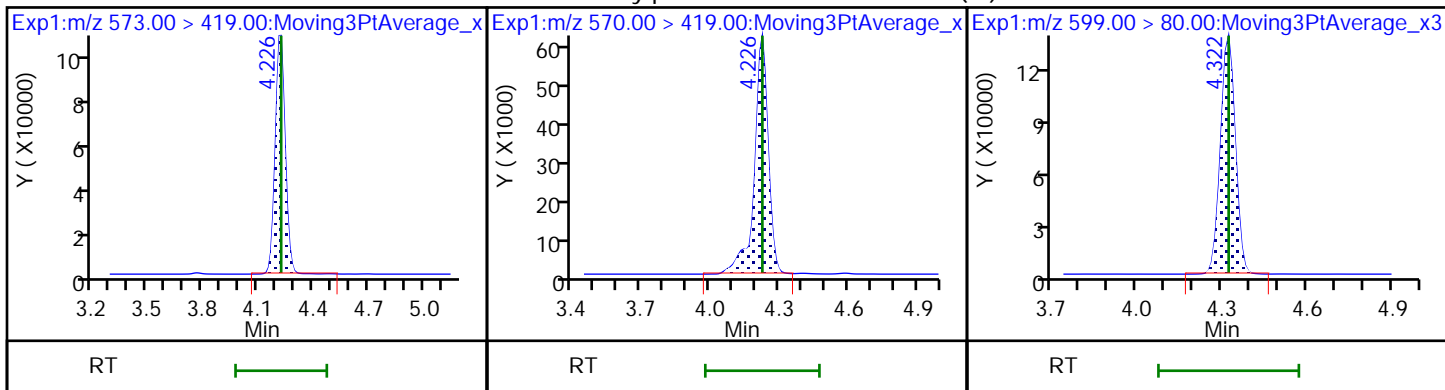
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

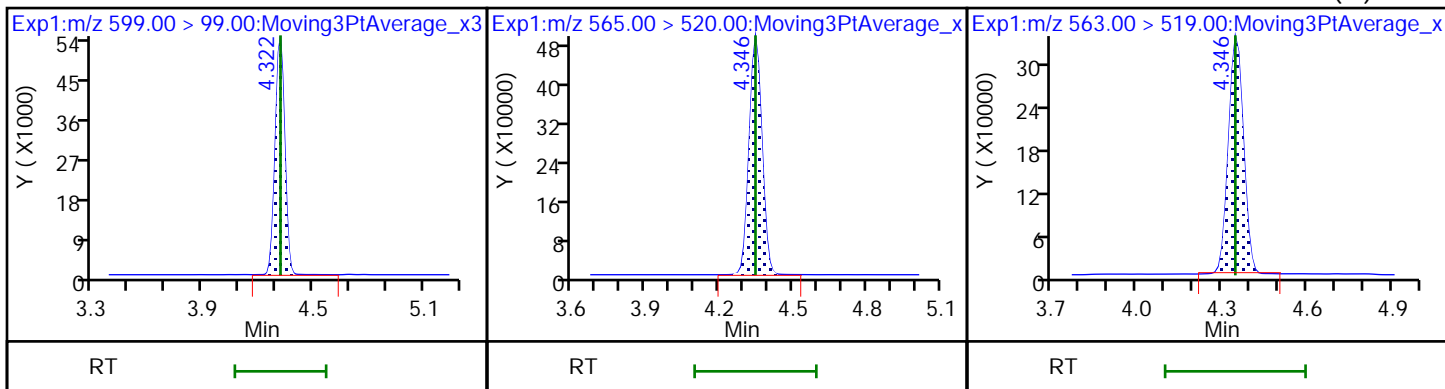
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

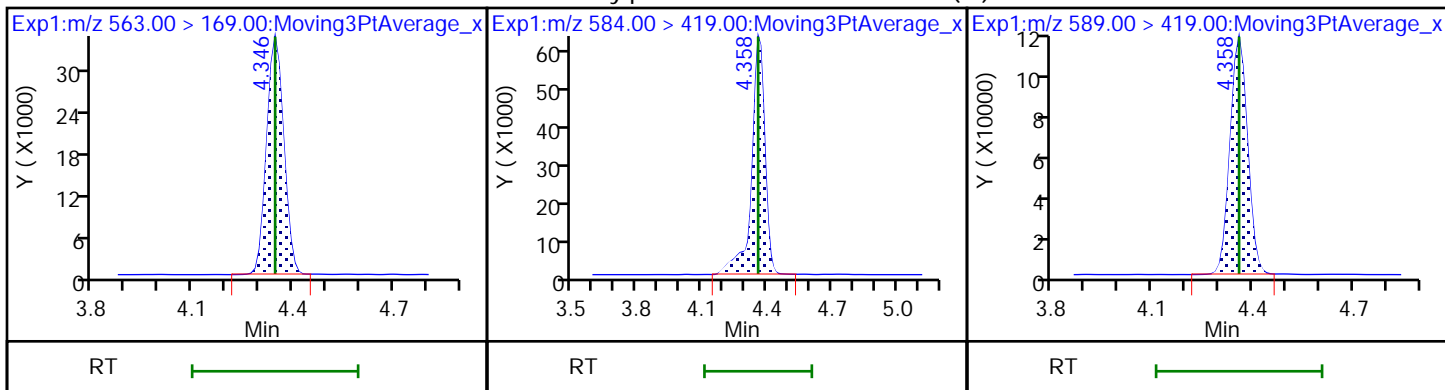
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

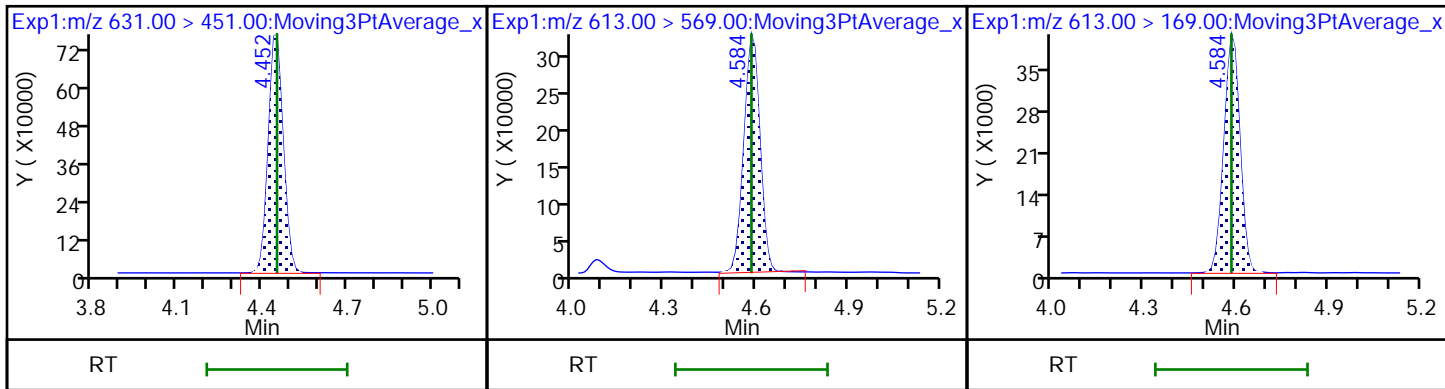
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

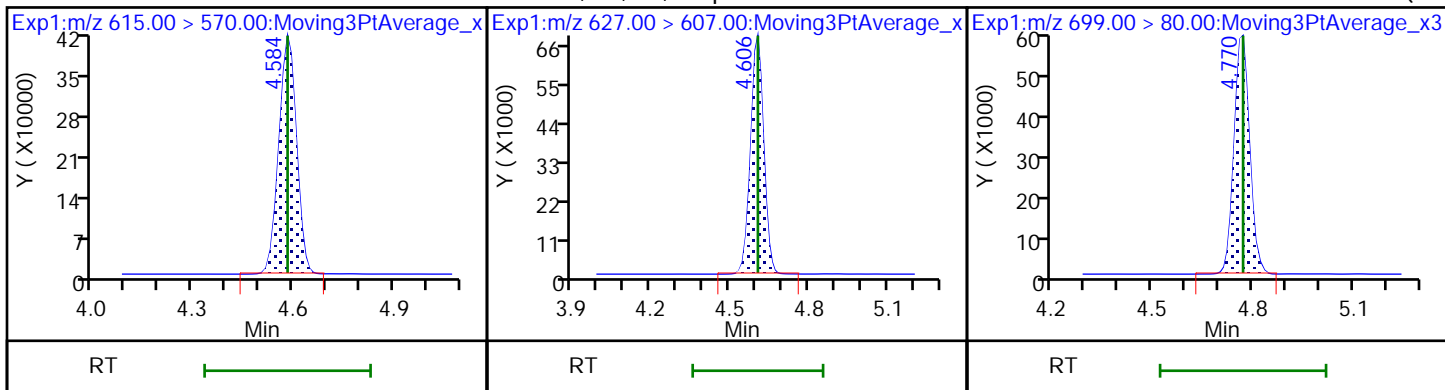
37 Perfluorododecanoic acid



D 36 13C2 PFDaA

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

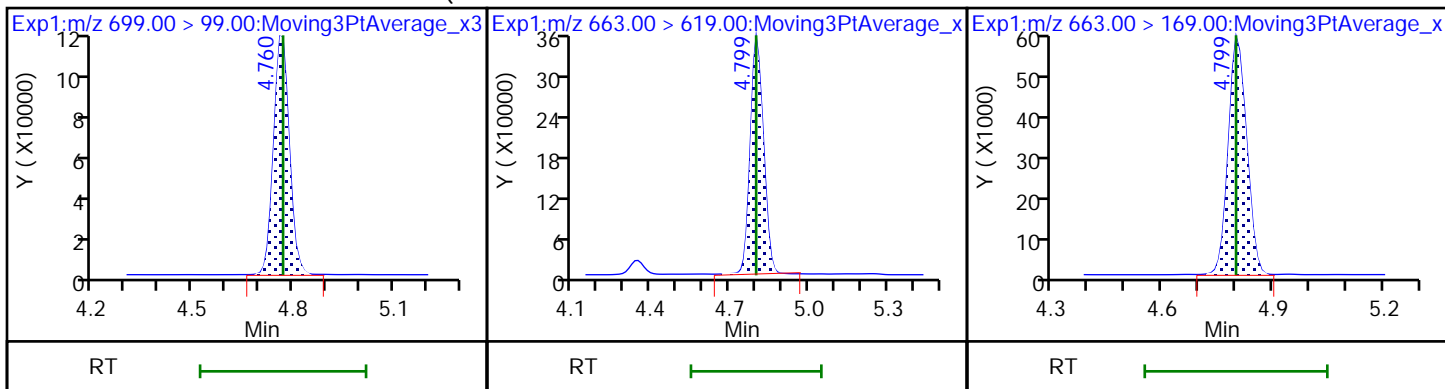
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

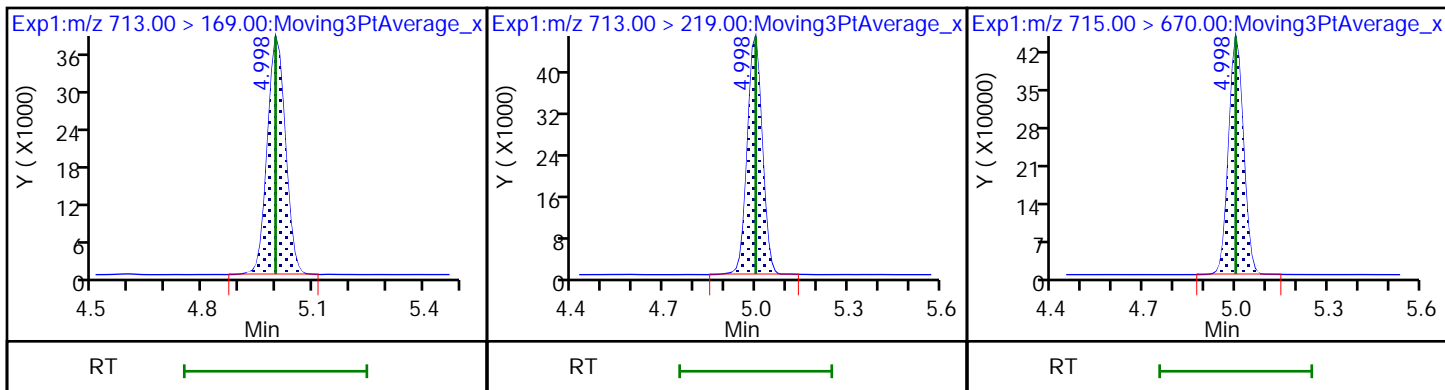
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

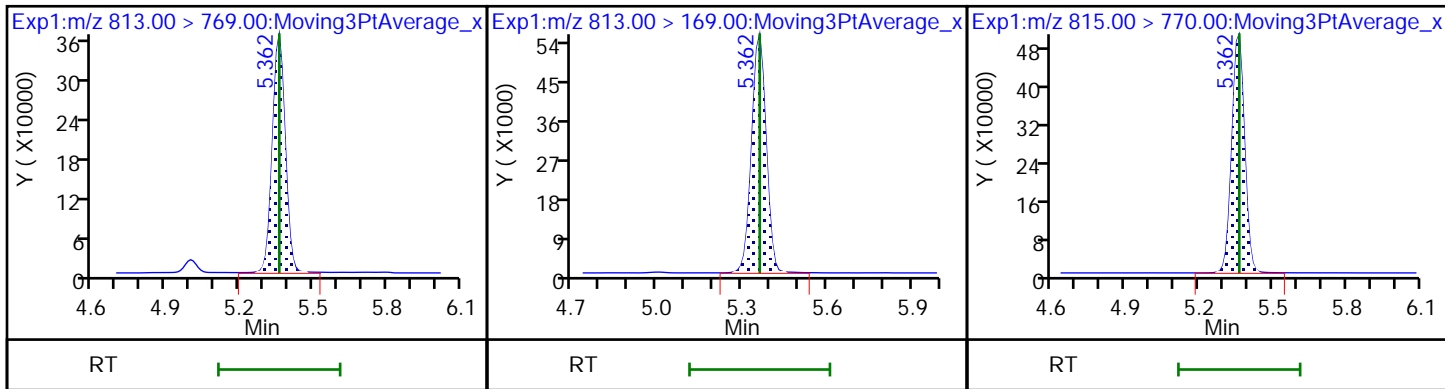
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

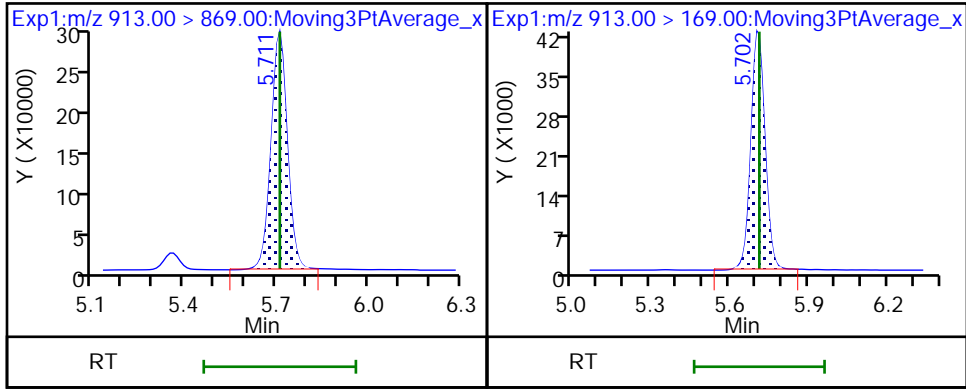
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

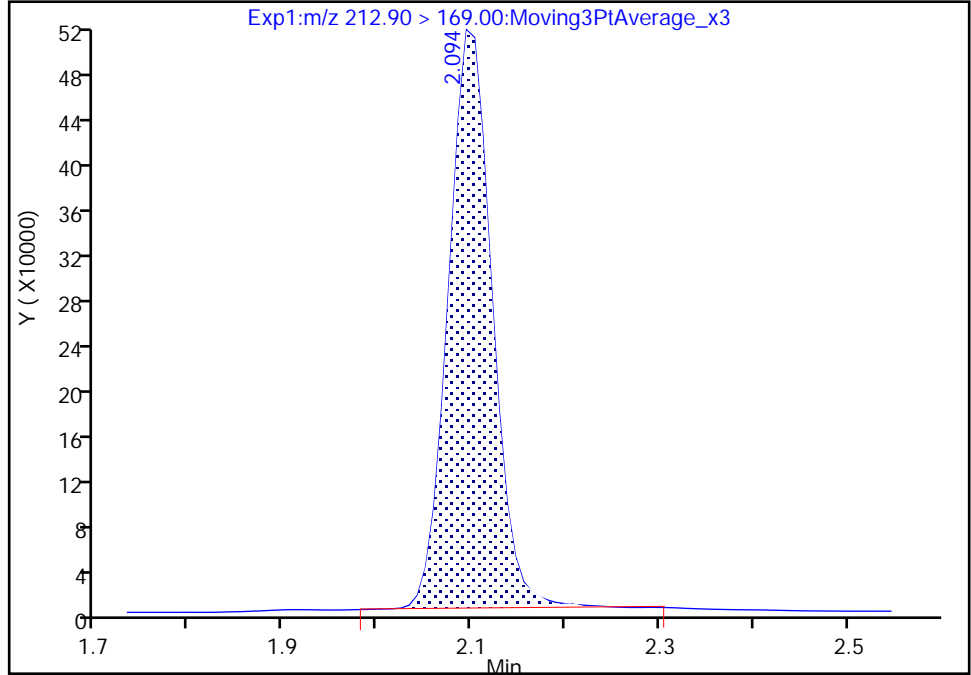
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

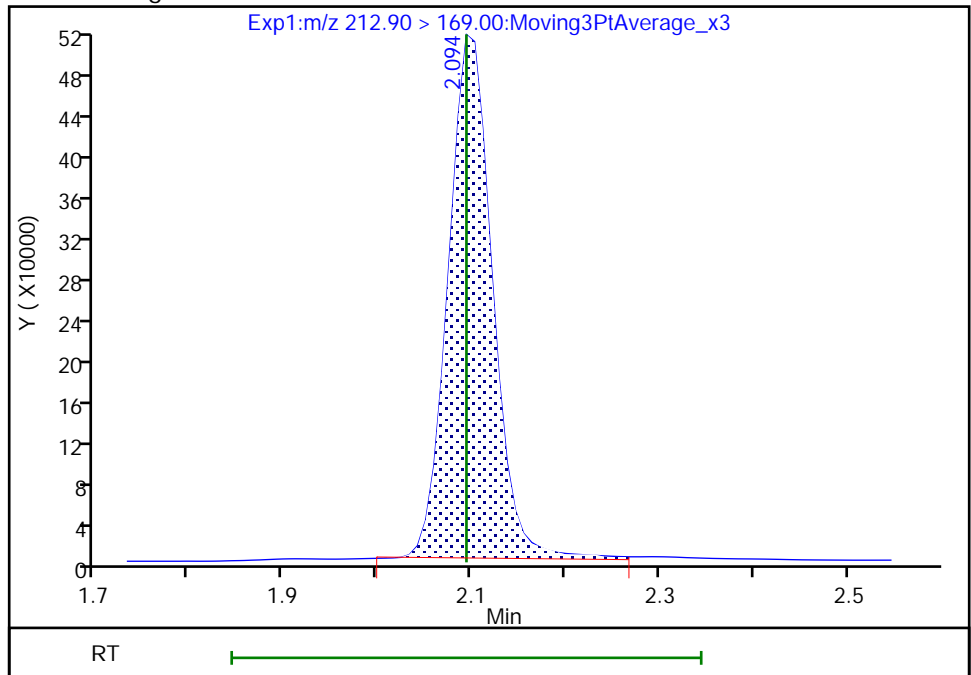
RT: 2.09
Area: 1669844
Amount: 0.885364
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1680686
Amount: 0.990320
Amount Units: ng/ml

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

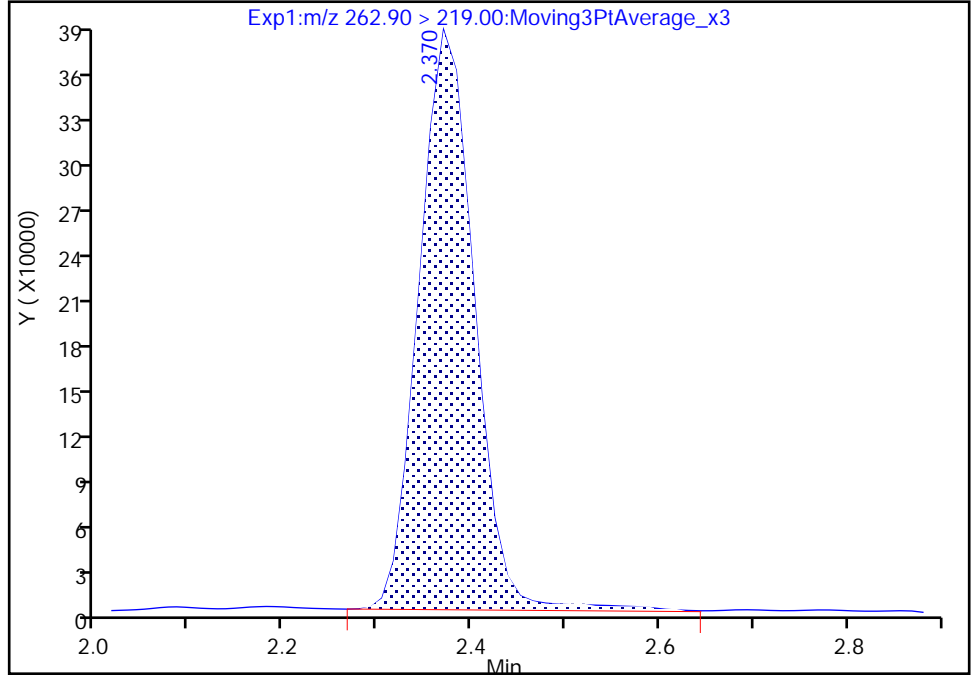
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

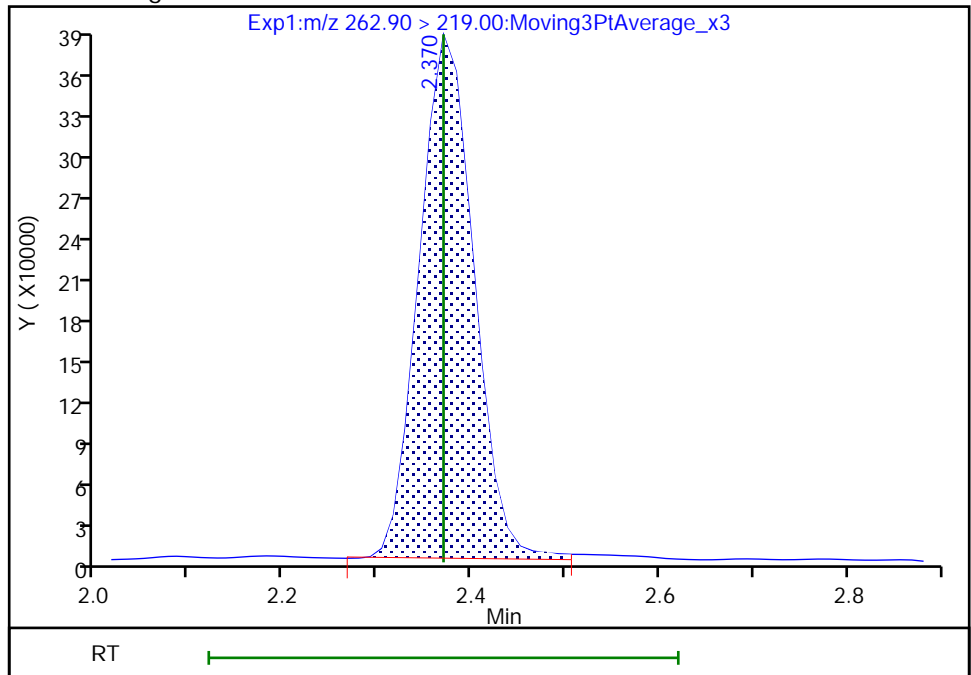
RT: 2.37
Area: 1550411
Amount: 0.903005
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 1533220
Amount: 0.914182
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:31:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

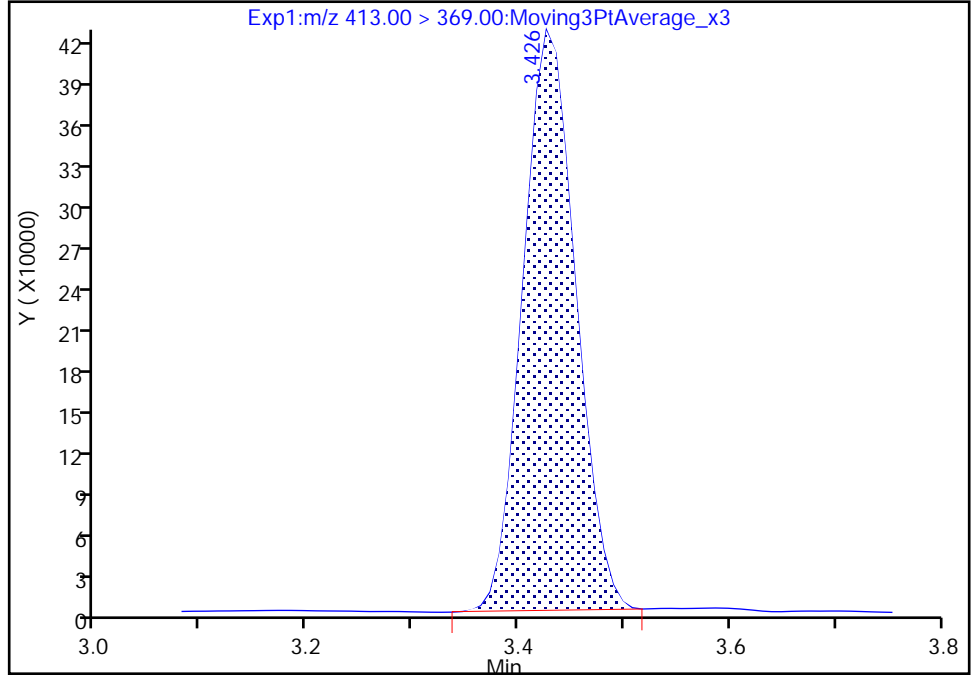
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

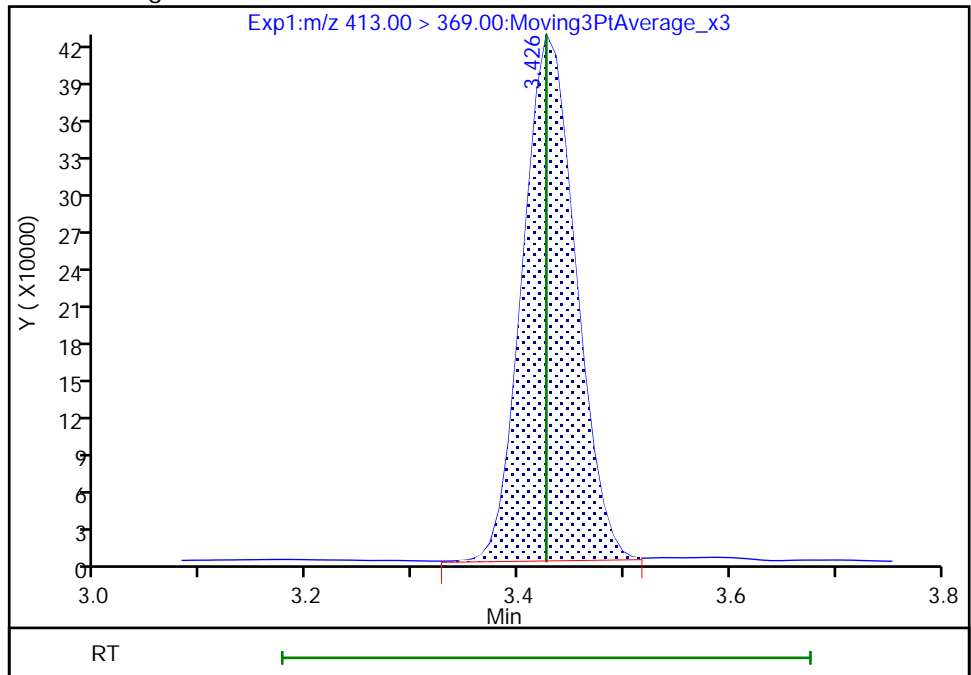
RT: 3.43
Area: 1472148
Amount: 0.838833
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1483412
Amount: 0.844348
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:05:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

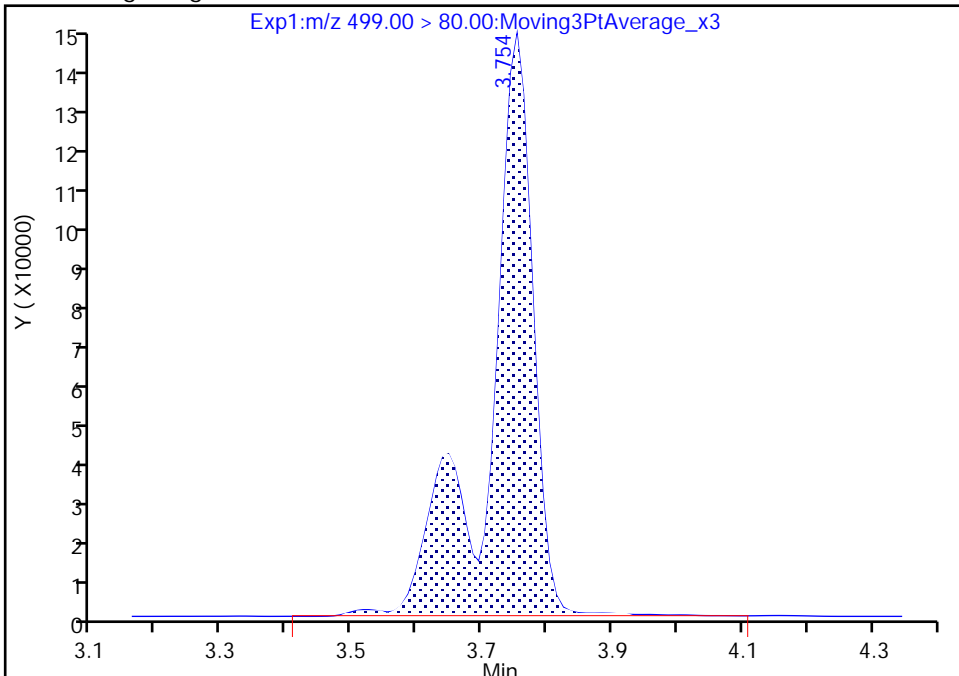
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

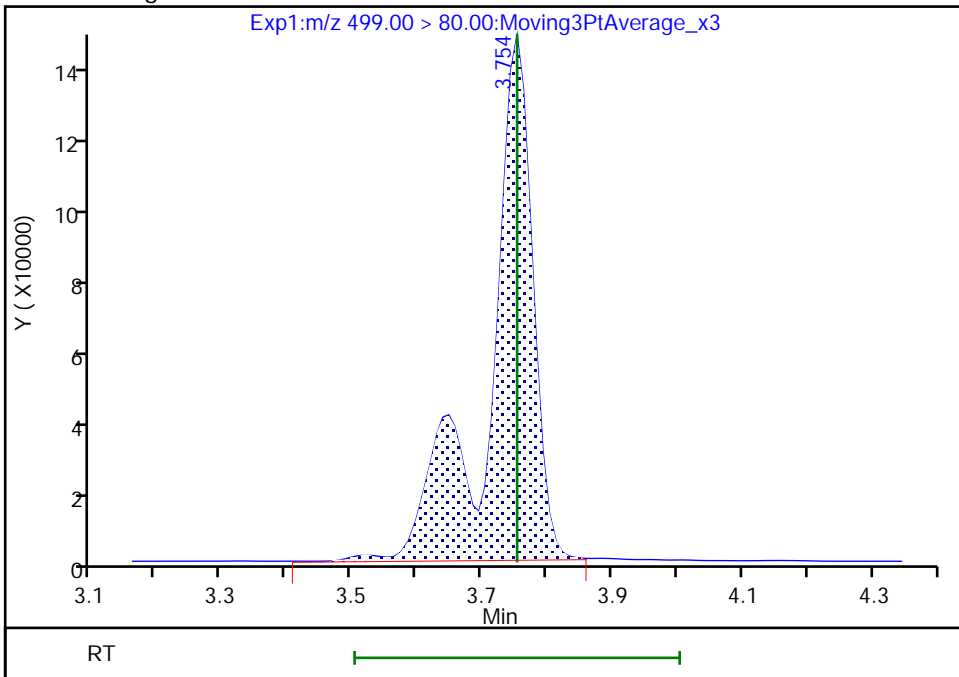
RT: 3.75
Area: 690826
Amount: 0.834188
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 686438
Amount: 0.829679
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:51:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

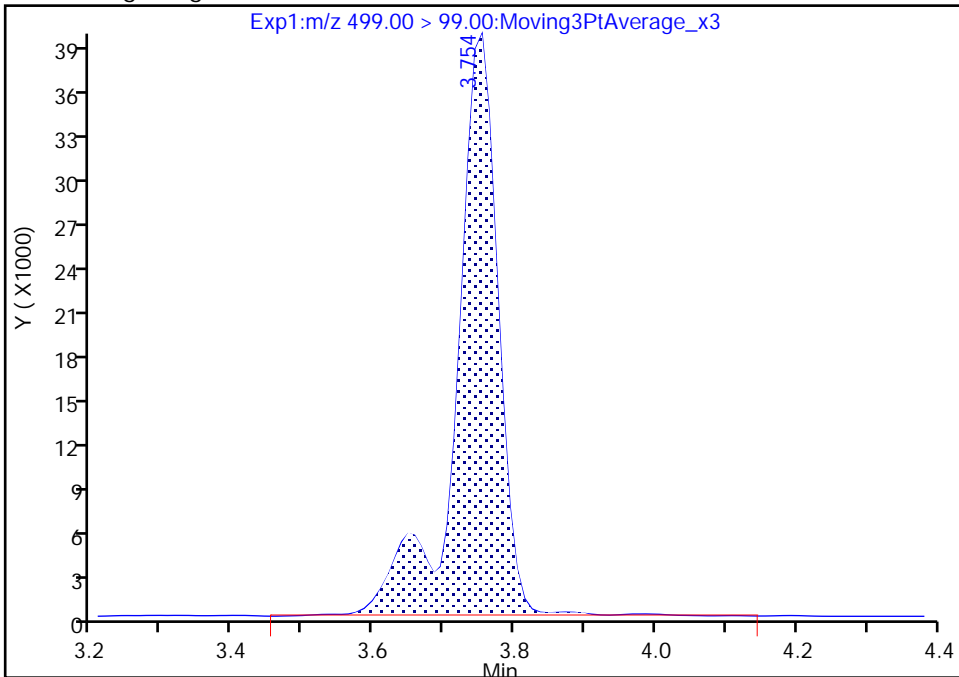
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

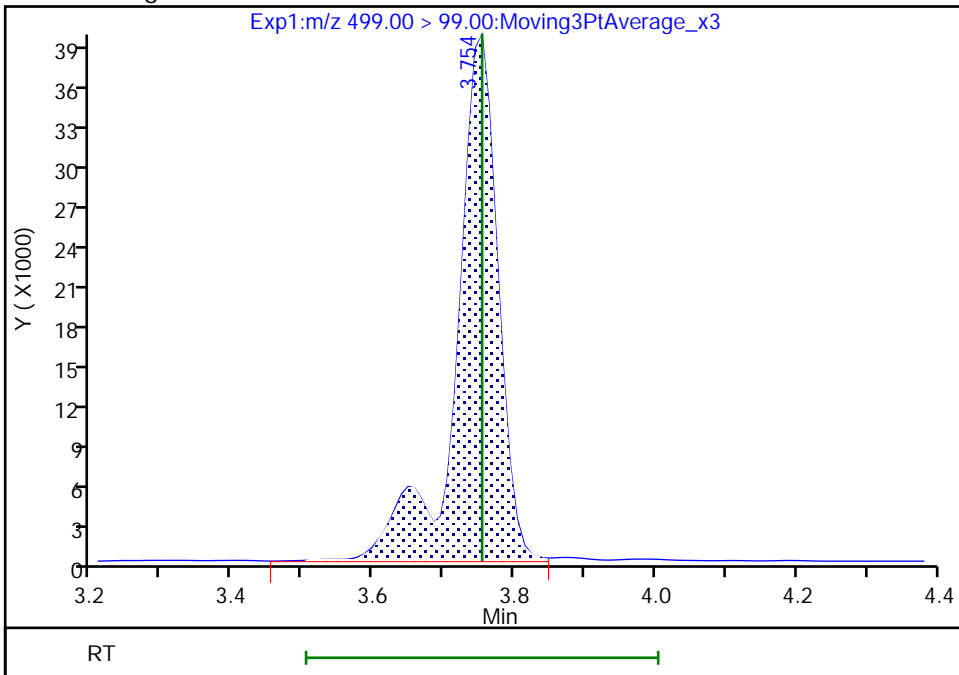
RT: 3.75
Area: 164064
Amount: 0.834188
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 162303
Amount: 0.829679
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:51:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

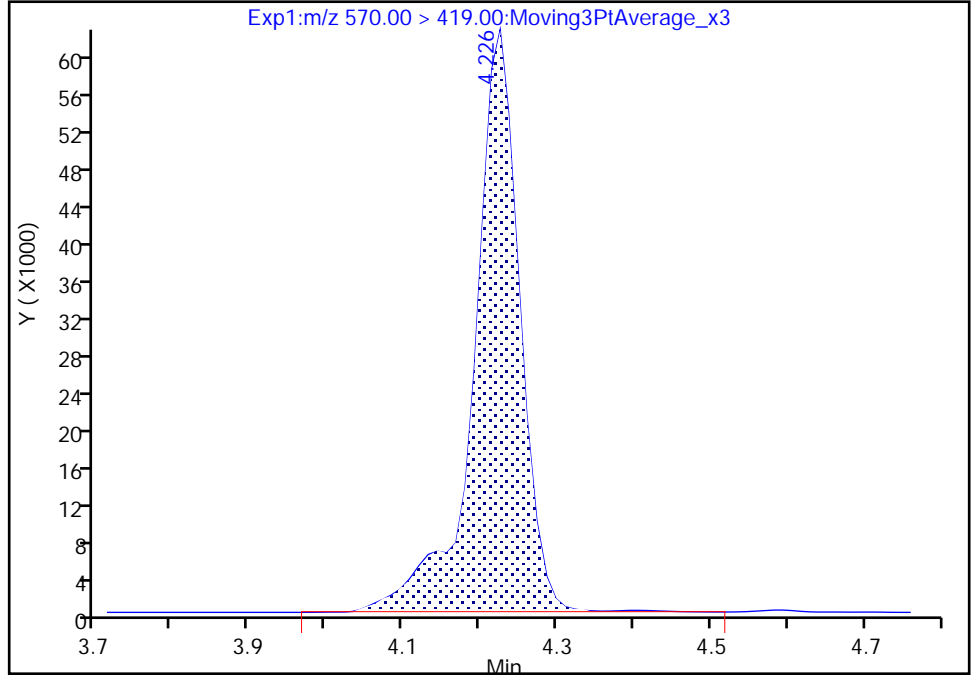
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

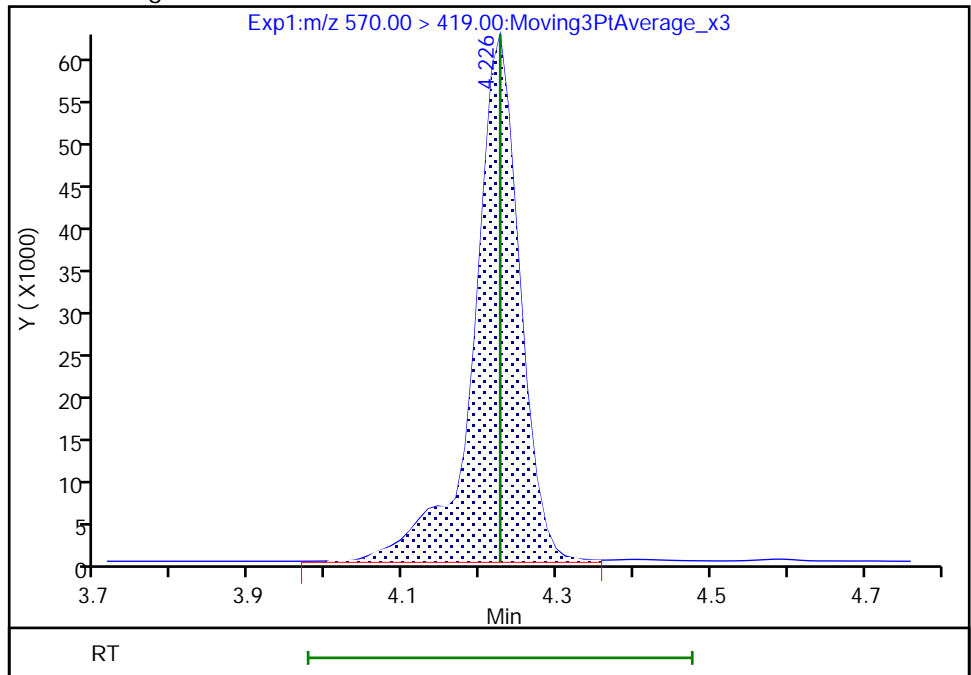
RT: 4.23
Area: 261522
Amount: 0.924923
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 260489
Amount: 0.921831
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:52:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

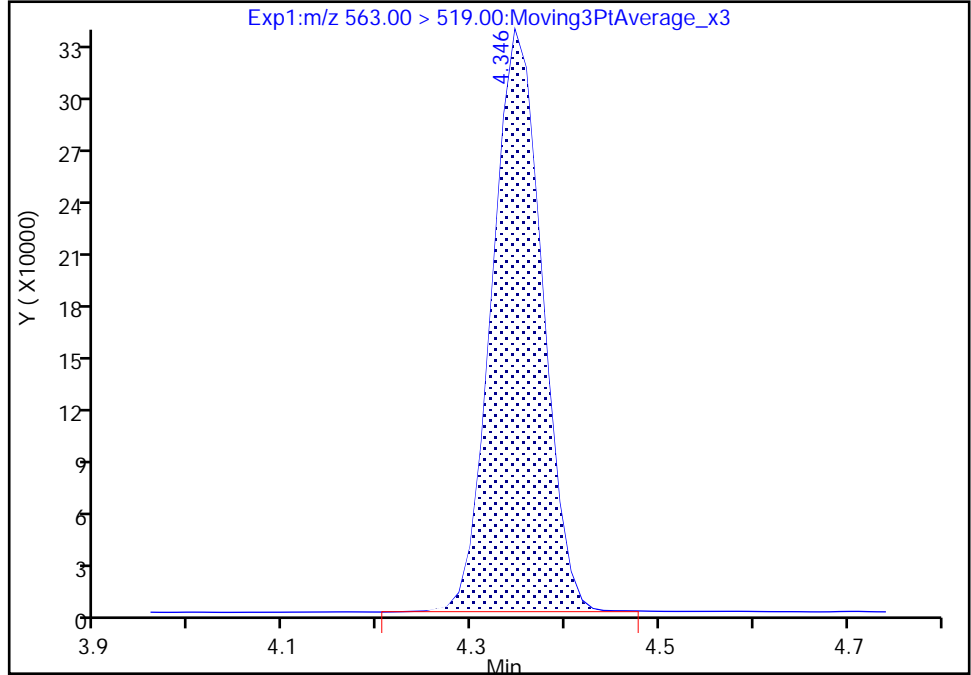
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

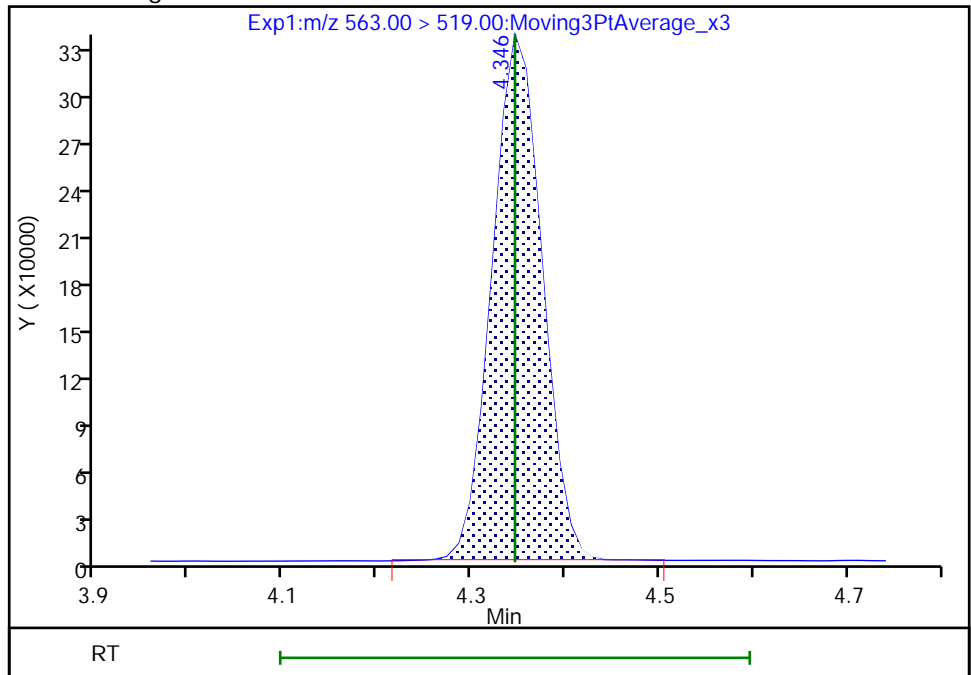
RT: 4.35
Area: 1249996
Amount: 0.794376
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1251894
Amount: 0.795423
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:05:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

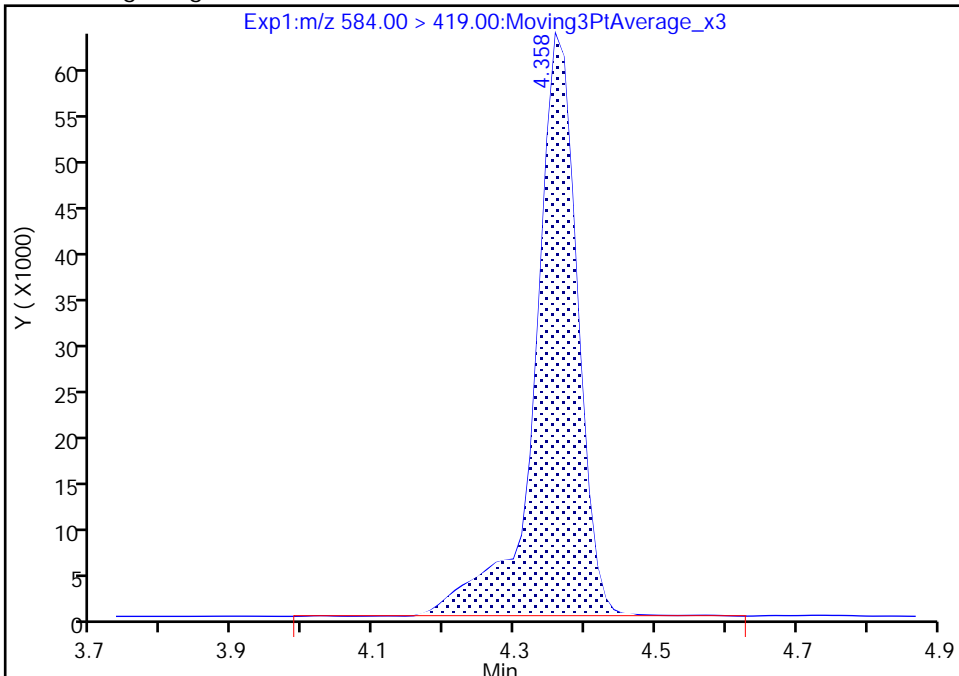
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

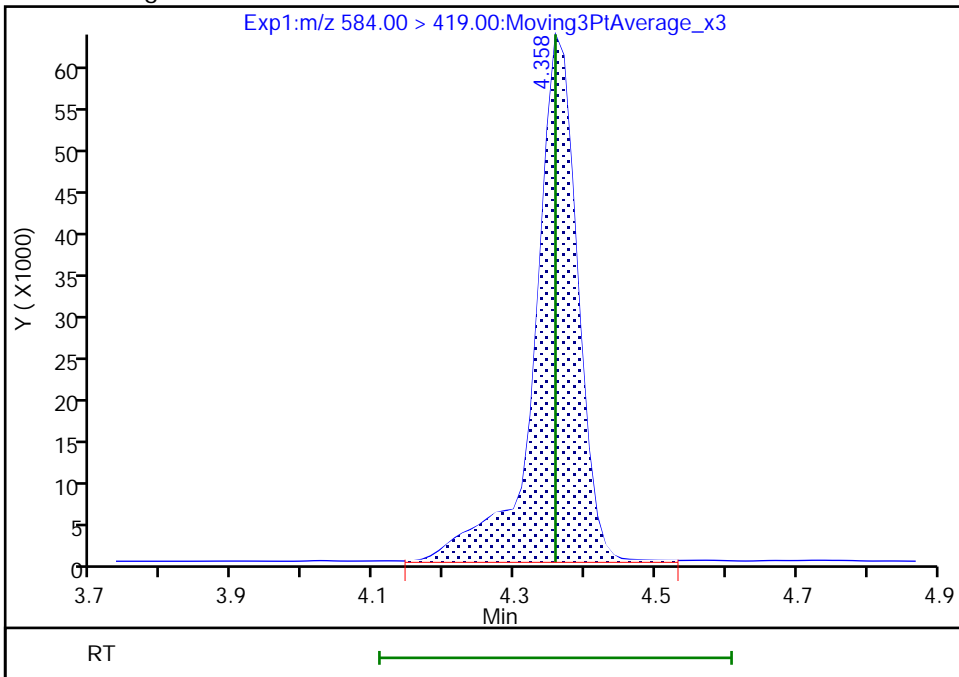
RT: 4.36
Area: 270996
Amount: 0.909549
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 269901
Amount: 0.906429
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:52:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 332 of 950

Eurofins Burlington

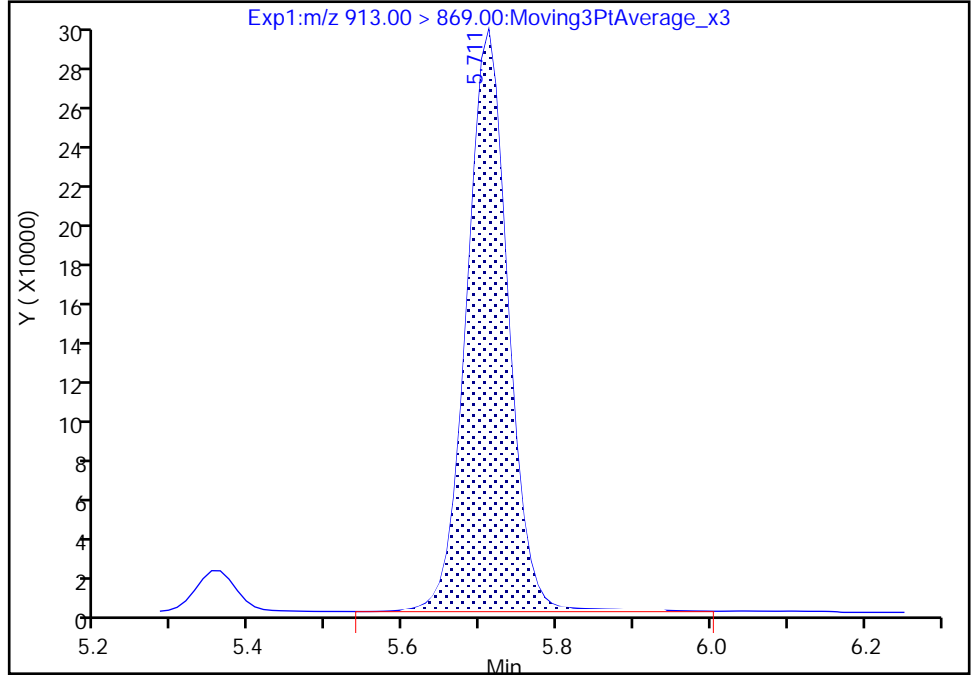
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

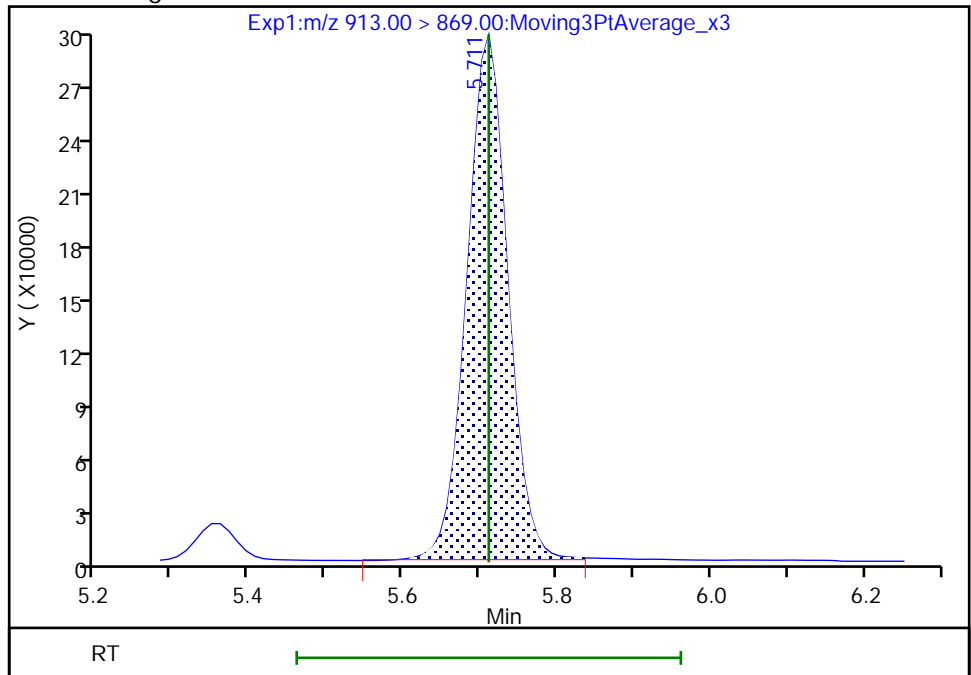
RT: 5.71
Area: 1116408
Amount: 0.944718
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 1106340
Amount: 0.937529
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:53:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

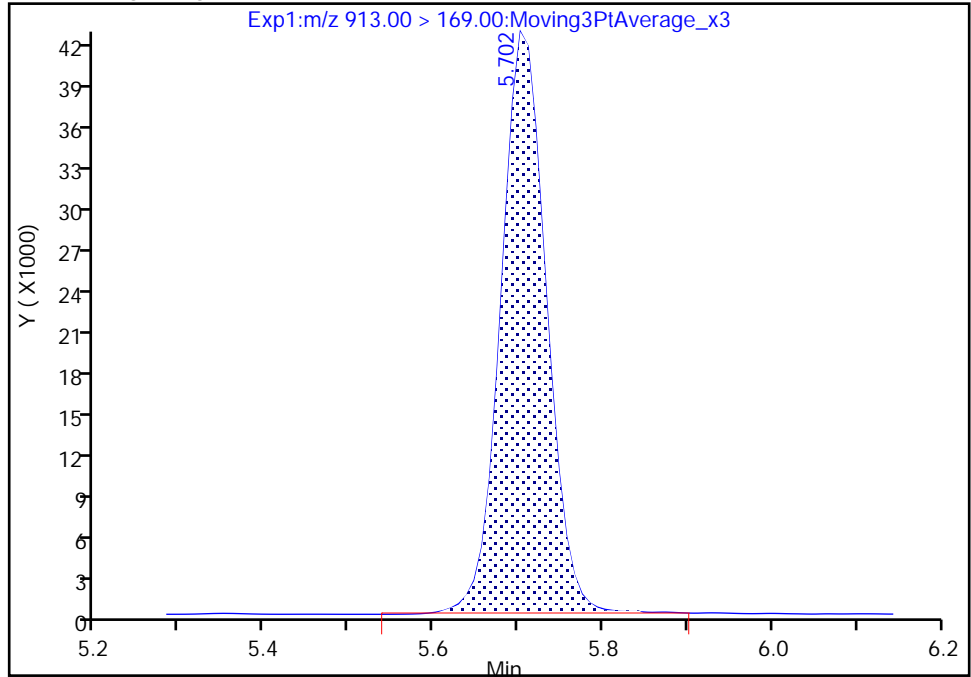
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL08.d
Injection Date: 11-Jan-2023 18:07:34 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

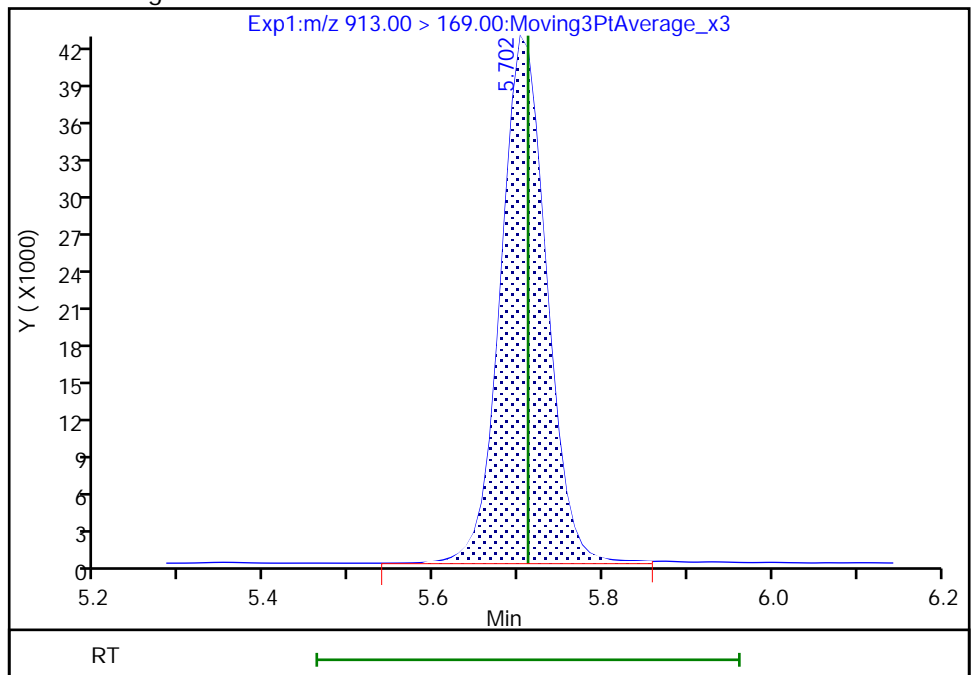
RT: 5.70
Area: 158059
Amount: 0.944718
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 158248
Amount: 0.937529
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:53:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Jan-2023 18:15:43 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-009 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:41 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 12:27:42

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.605	2239855	1.30	104	16275	
2 Perfluorobutanoic acid	212.90 > 169.00	2.086	2.094	-0.008	1.000	4203191	2.43	97.3	388	
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1687291	1.21	96.6	6129	
4 Perfluoropentanoic acid	262.90 > 219.00	2.384	2.370	0.014	1.000	3559403	2.30	92.1	113	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1713984	1.12	96.1	166314	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.006	3136677	1.99	Target=1.99	89.9	4257
	298.90 > 99.00	2.411	2.384	0.027	1.006	1652928		1.90(0.99-2.98)	89.9	1155
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.694	2.669	0.025	1.000	825329	2.01	85.9	5444	
D 60 M2-4:2 FTS	329.00 > 81.00	2.694	2.669	0.025	0.782	162324	1.31	112	251	M
D 7 13C2 PFHxA	315.00 > 270.00	2.719	2.694	0.025	0.789	1743329	1.20	96.1	4873	
6 Perfluorohexanoic acid	313.00 > 269.00	2.731	2.706	0.025	1.005	3563945	2.43	Target=13.02	97.0	520
	313.00 > 119.00	2.719	2.706	0.013	1.000	257895		13.82(6.51-19.53)	97.0	596
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.883	3150424	2.08	Target=2.73	88.9	4523
	349.00 > 99.00	2.731	2.706	0.025	0.883	1142587		2.76(1.37-4.10)	88.9	2976
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.831	2.806	0.025	1.000	597481	2.39	95.8	6711	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.831	2.806	0.025	0.822	312102	1.24		99.3	3975	
D 11 18O2 PFHxS										
403.00 > 84.00	3.093	3.069	0.024	0.898	1445292	1.29		110	5293	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.081	3.069	0.012	0.996	2494896	1.86	Target=3.13	81.7	5511	M
399.00 > 99.00	3.081	3.069	0.012	0.996	822663		3.03(1.57-4.70)	81.7	1393	
D 9 13C4 PFHpA										
367.00 > 322.00	3.093	3.069	0.024	0.898	1749350	1.20		96.3	7734	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.093	3.069	0.024	1.000	3343362	2.24	Target=3.92	89.7	571	
363.00 > 169.00	3.093	3.069	0.024	1.000	888324		3.76(1.96-5.88)	89.7	2461	
77 DONA										
377.00 > 251.00	3.127	3.104	0.023	0.833	8713801	2.25	Target=3.04	95.7	7140	
377.00 > 85.00	3.127	3.104	0.023	0.833	2802770		3.11(1.52-4.56)	95.7	5948	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.428	3.417	0.011	0.995	201091	1.14		96.3	789	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.437	3.417	0.020	1.003	864239	2.23		94.0	851	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.428	3.417	0.011	0.913	2085994	2.13	Target=4.66	89.3	5912	
449.00 > 99.00	3.428	3.417	0.011	0.913	465081		4.49(2.33-6.99)	89.3	2692	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.426	0.020	1.000	1893164	1.23		98.3	7217	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.426	0.020		1879172	1.25			7277	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.426	0.020	1.000	4169314	2.53	Target=3.01	101	328	
413.00 > 169.00	3.446	3.426	0.020	1.000	1363281		3.06(1.50-4.51)	101	2254	
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.089	806118	1.19		99.4	3032	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	1676540	2.05	Target=4.13	88.2	1486	M
499.00 > 99.00	3.754	3.754	0.0	1.000	395367		4.24(2.07-6.20)	88.2	1291	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.774	0.0	1.000	3365289	2.25	Target=8.58	90.0	524	
463.00 > 169.00	3.774	3.774	0.0	1.000	431092		7.81(4.29-12.87)	90.0	3274	
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.774	0.0	1.095	1830847	1.22		97.6	7537	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	4291748	2.19		94.2	12660	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	1503391	2.21	Target=2.32	92.0	9738	
549.00 > 99.00	4.052	4.043	0.009	1.080	668788		2.25(1.16-3.48)	92.0	4092	
D 23 13C2 PFDA										
515.00 > 470.00	4.074	4.074	0.0	1.182	1896398	1.23		98.6	8896	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.074	4.074	0.0	1.000	4152457	2.56	Target=10.61	102	1120	
513.00 > 169.00	4.074	4.074	0.0	1.000	387780		10.71(5.30-15.91)	102	1104	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.185	246611	1.12		93.4	1061	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	818892	2.19		91.5	7589	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	2976080	2.41		96.5	3760	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	1533594	1.23		98.1	4948	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.226	375639	1.24		99.3	584	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	655768	2.42		96.8	880	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	1139225	2.25	Target=2.46	93.2	5764	
599.00 > 99.00	4.322	4.322	0.0	1.151	479836		2.37(1.23-3.69)	93.2	2000	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.261	1609362	1.21		96.9	8809	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	3309497	2.35	Target=11.25	94.2	866	
563.00 > 169.00	4.346	4.346	0.0	1.000	290959		11.37(5.62-16.87)	94.2	1655	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.000	635414	2.44		97.7	1779	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.265	349833	1.20		96.3	793	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	7017264	2.32		98.4	7207	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.584	4.584	0.0	1.000	3235379	2.36	Target=8.15	94.4	384	
613.00 > 169.00	4.584	4.584	0.0	1.000	400204		8.08(4.08-12.23)	94.4	3992	
D 36 13C2 PFDaA										
615.00 > 570.00	4.584	4.584	0.0	1.330	1683692	1.26		101	4140	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.606	4.606	0.0	1.128	538890	2.28		94.7	4403	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.268	478683	2.32	Target=0.53	96.0	5477	
699.00 > 99.00	4.760	4.770	-0.010	1.268	886233		0.54(0.26-0.79)	96.0	5677	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.799	4.799	0.0	1.047	3273521	2.39	Target=6.29	95.6	330	
663.00 > 169.00	4.799	4.799	0.0	1.047	496384		6.59(3.14-9.43)	95.6	3260	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	332815	2.35	Target=0.93	93.9	3674	
713.00 > 219.00	4.987	4.998	-0.011	0.998	336894		0.99(0.46-1.39)	93.9	3054	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.450	1419059	1.24		99.1	5048	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.362	-0.012	1.000	3219693	2.53	Target=6.52	101	425	
813.00 > 169.00	5.350	5.362	-0.012	1.000	458834		7.02(3.26-9.77)	101	4187	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.362	-0.012	1.553	1735459	1.24		98.9	6720	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.702	5.711	-0.009	1.066	2725859	2.43	Target=7.39	97.1	336	M
913.00 > 169.00	5.702	5.711	-0.009	1.066	377341		7.22(3.69-11.08)	97.1	1246	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00030

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d

Injection Date: 11-Jan-2023 18:15:43

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

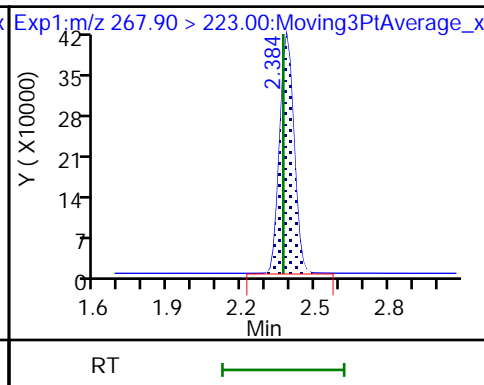
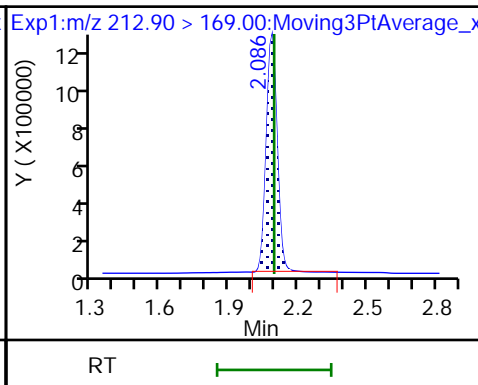
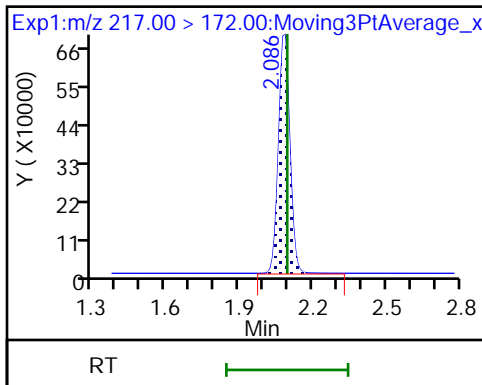
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

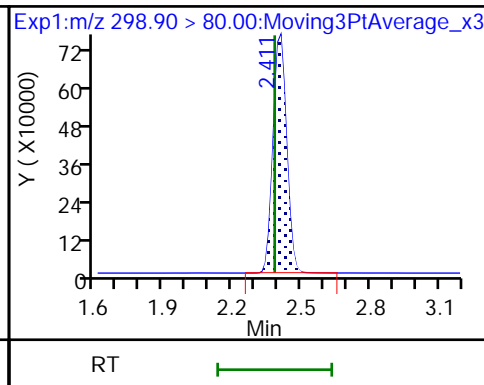
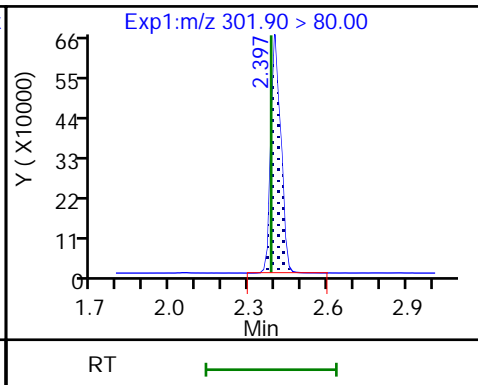
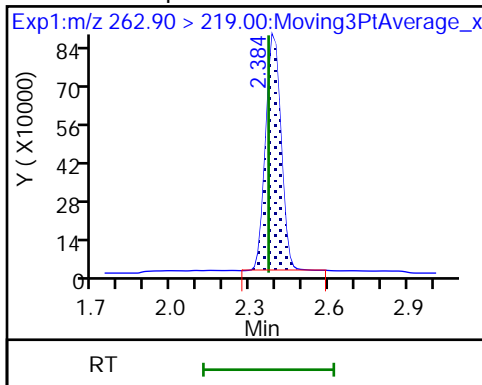
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

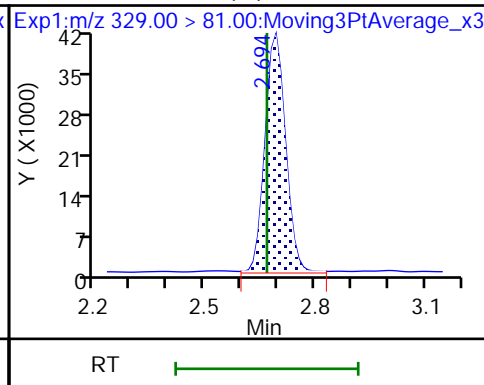
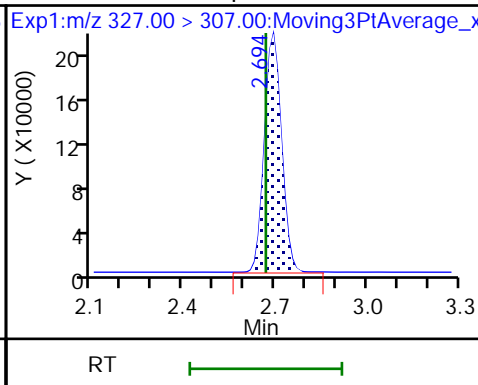
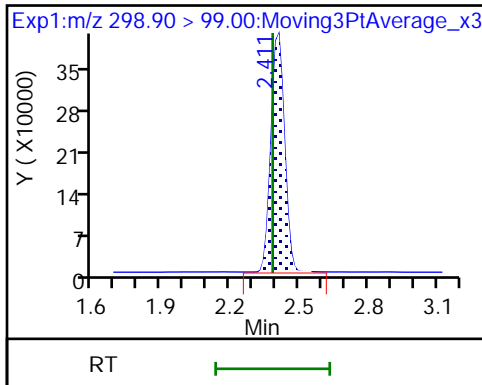
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

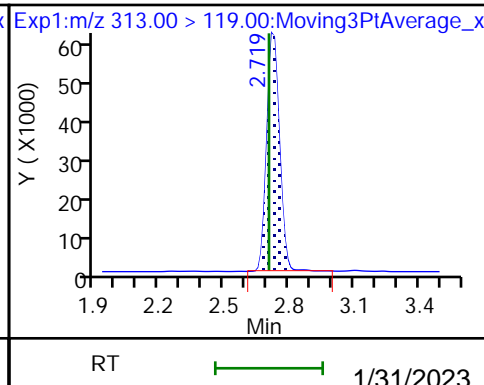
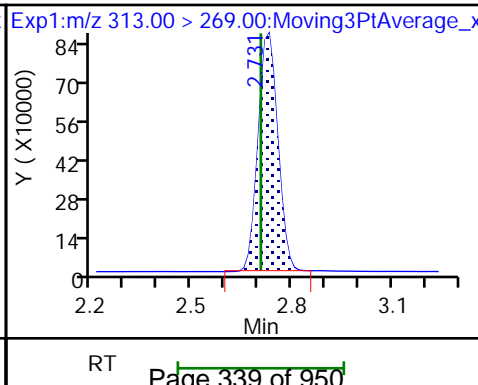
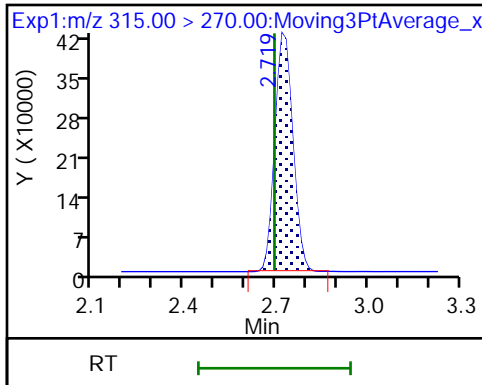
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

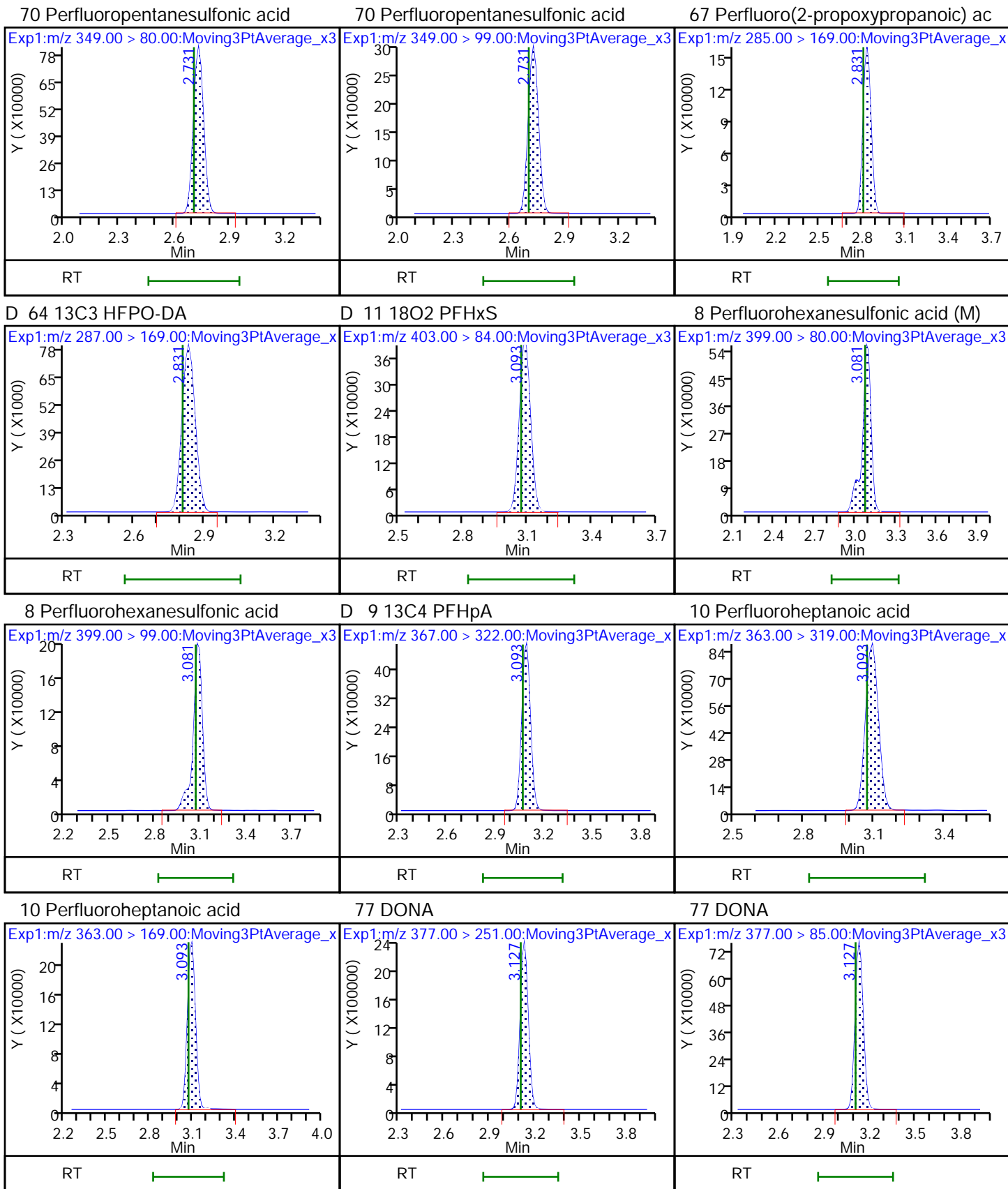


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

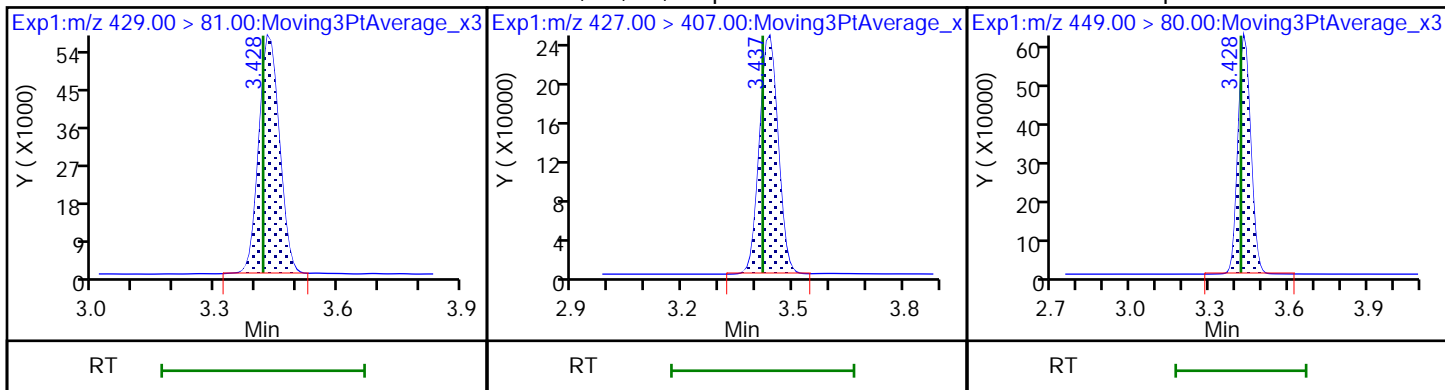




D 12 M2-6:2 FTS

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

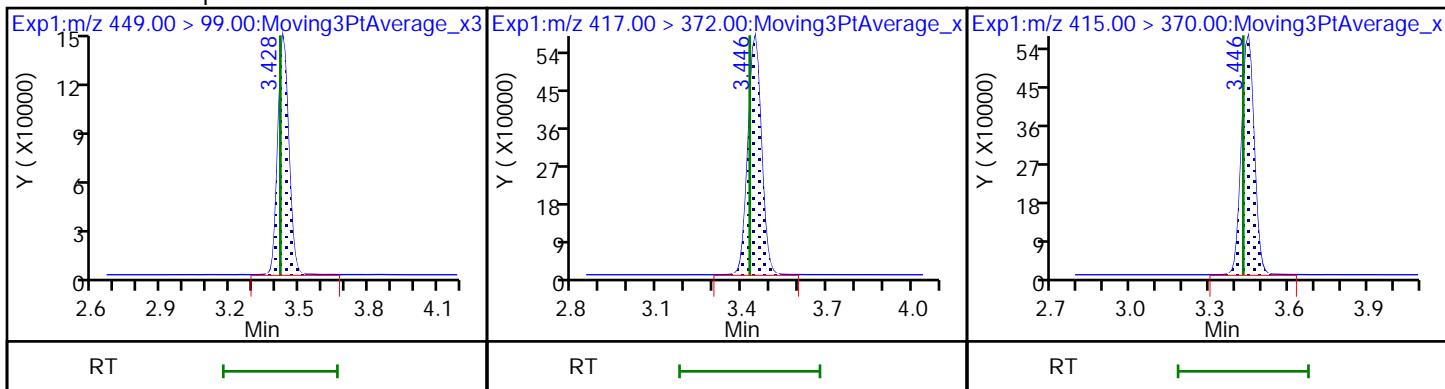
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

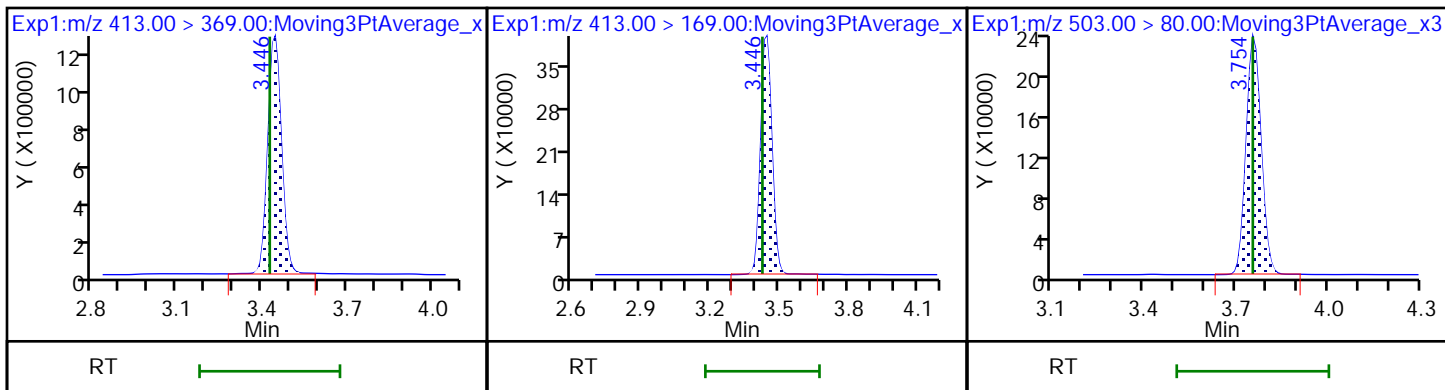
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

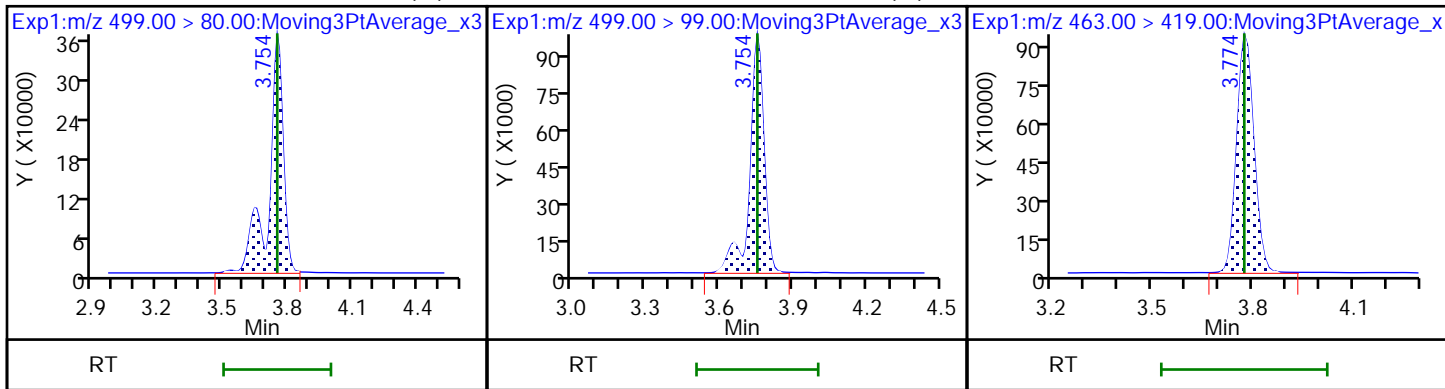
D 18 13C4 PFOS

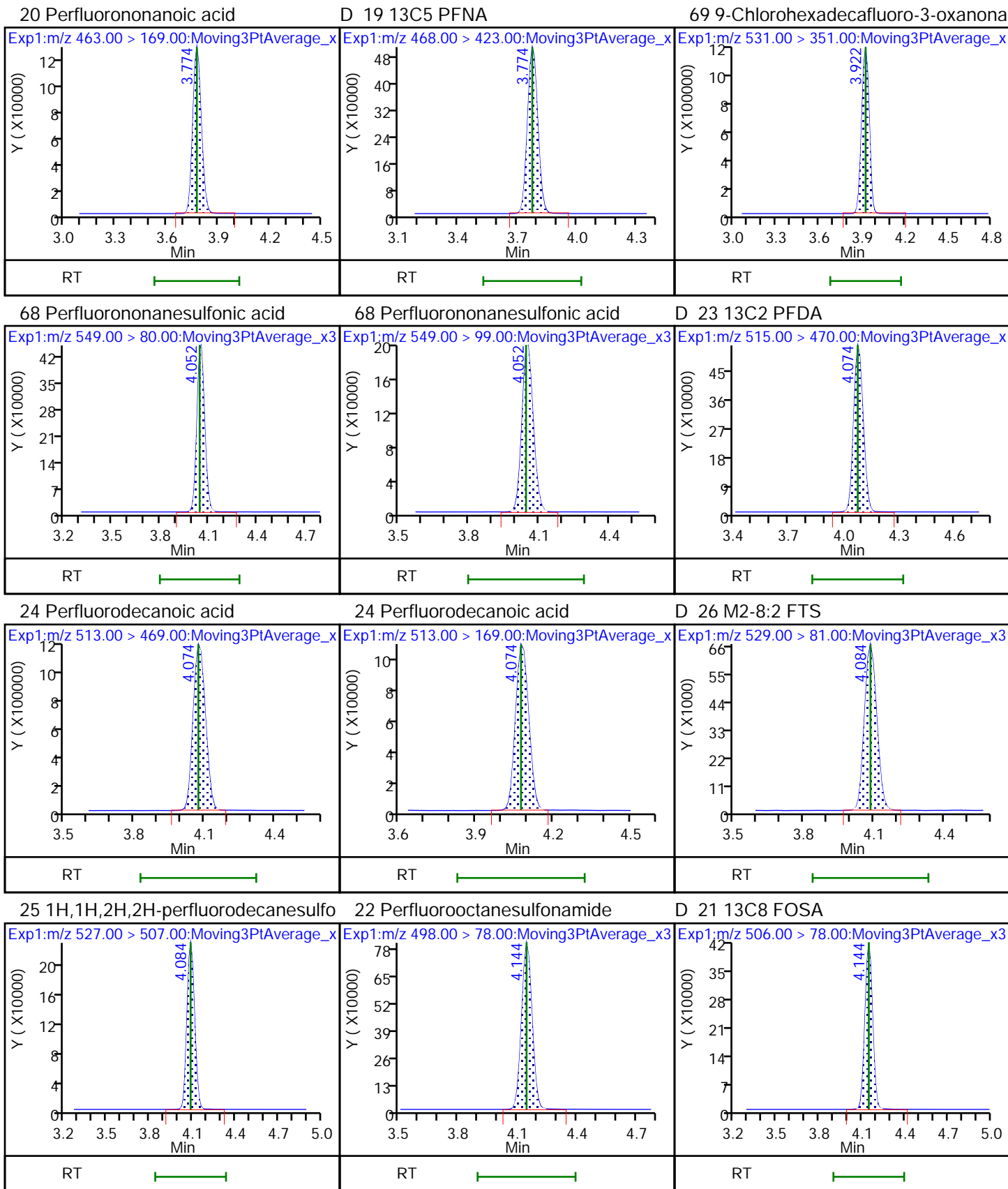


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

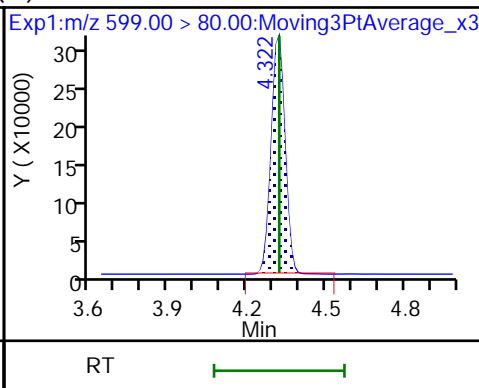
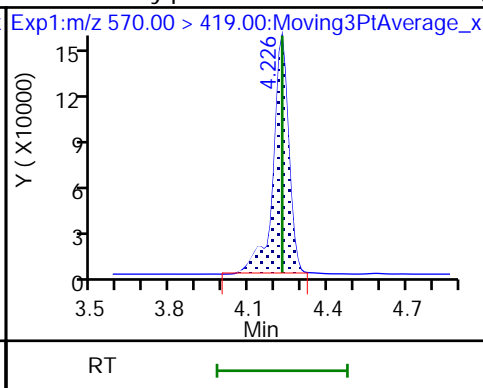
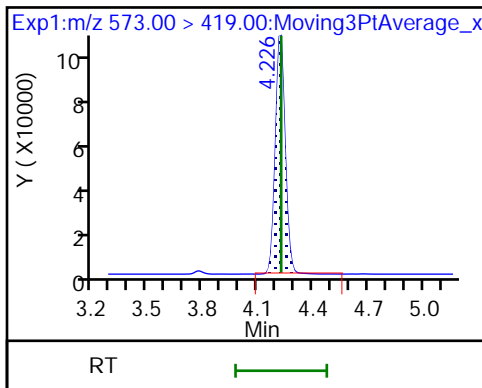
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

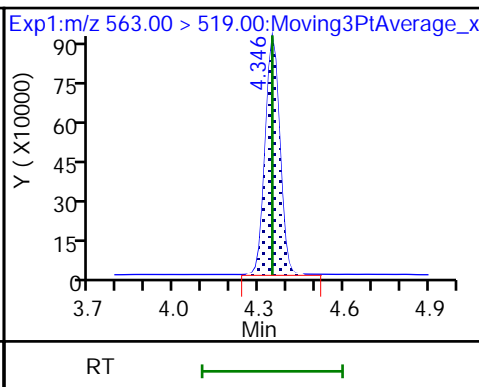
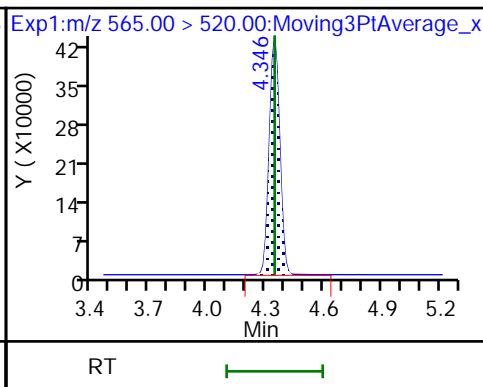
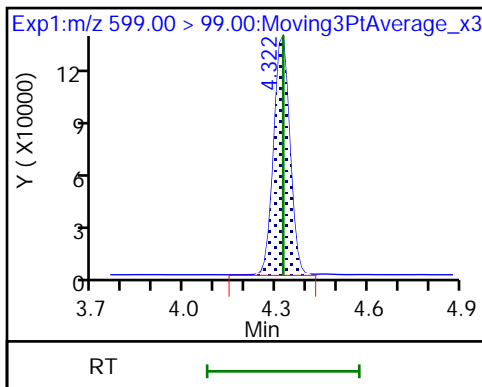
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

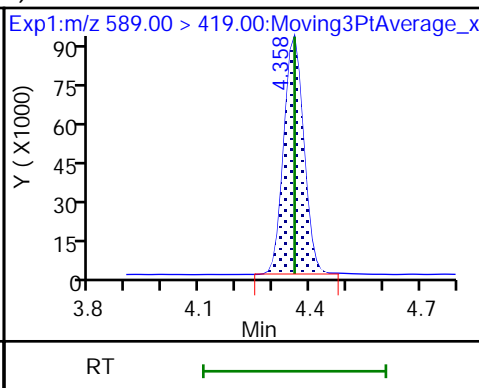
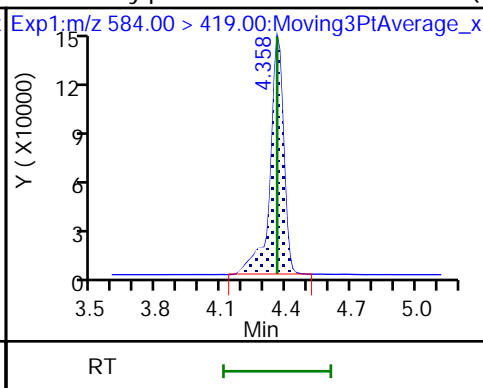
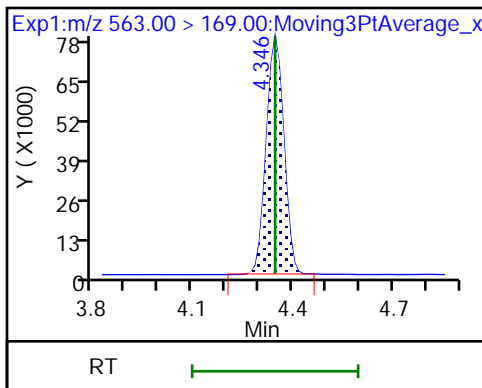
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

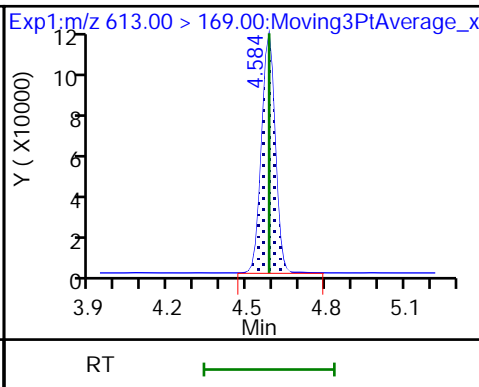
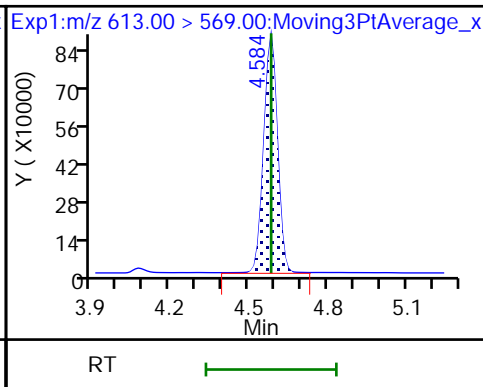
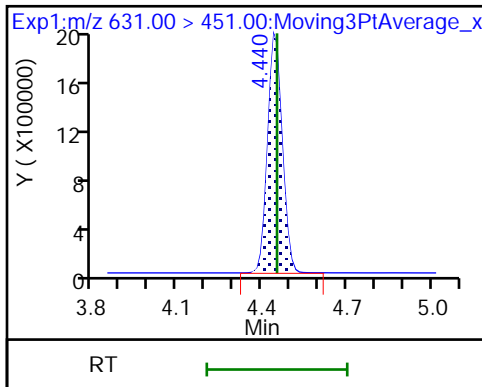
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

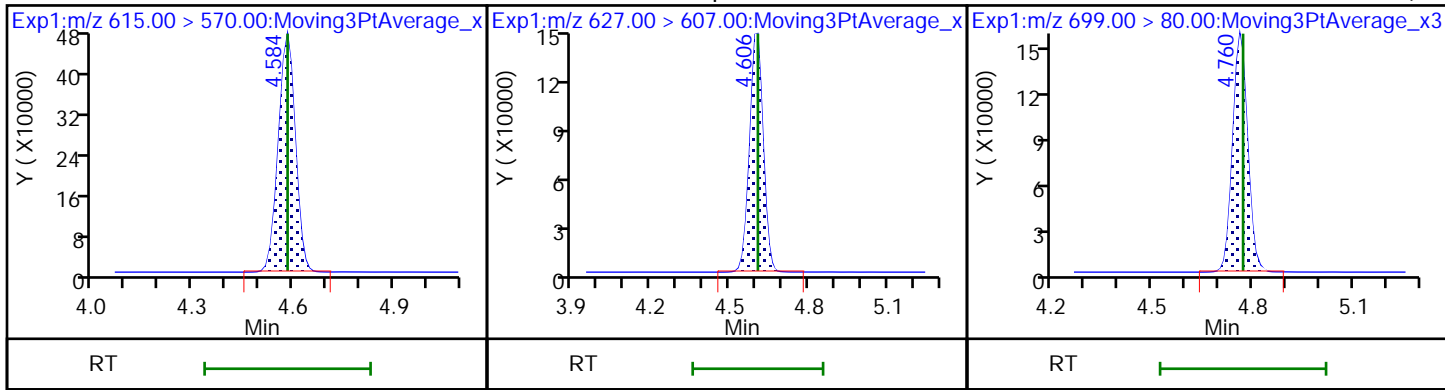
37 Perfluorododecanoic acid



D 36 13C2 PFDaA

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

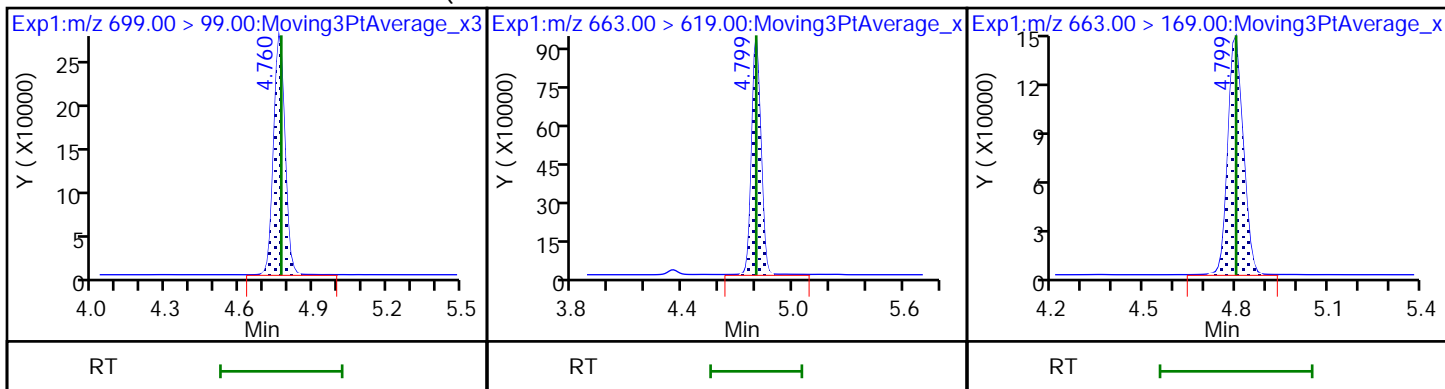
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

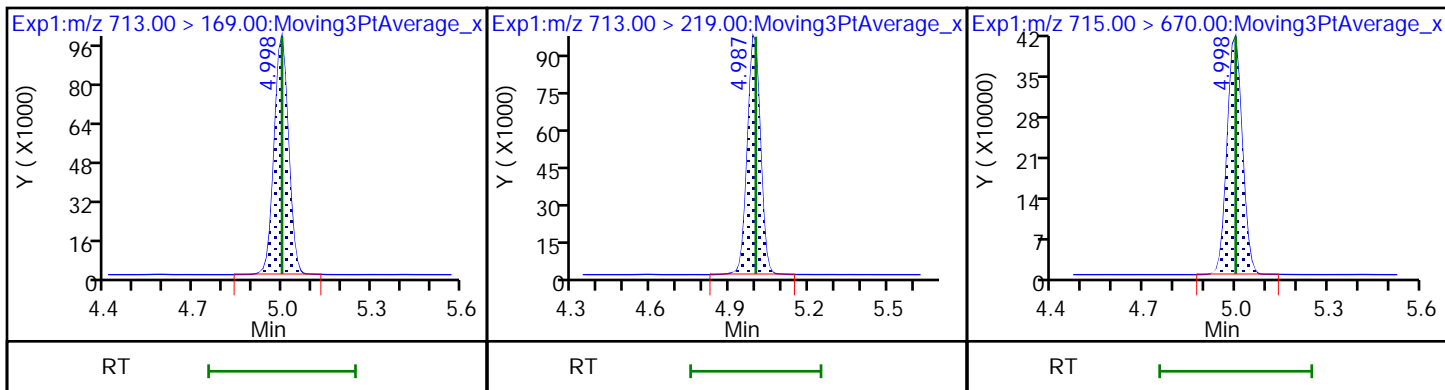
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

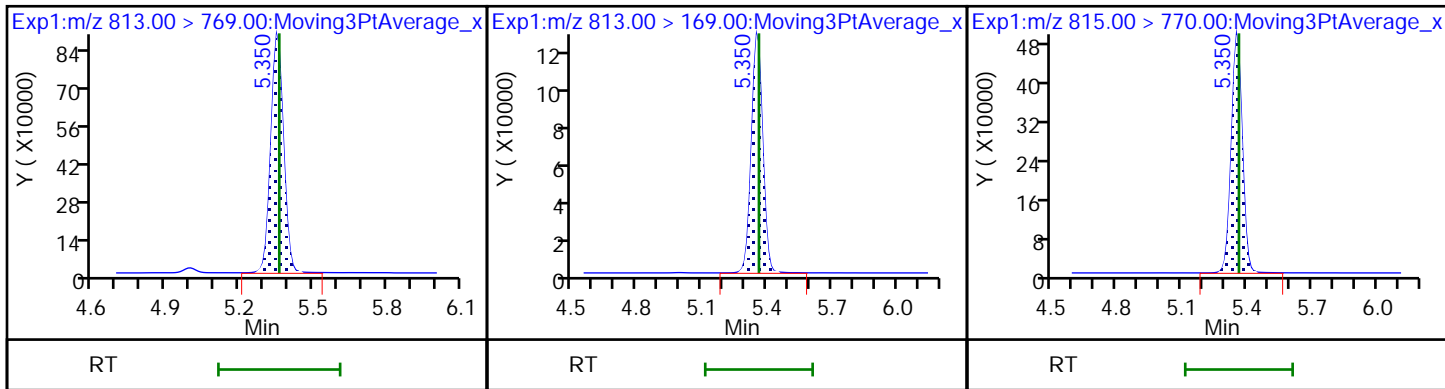
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

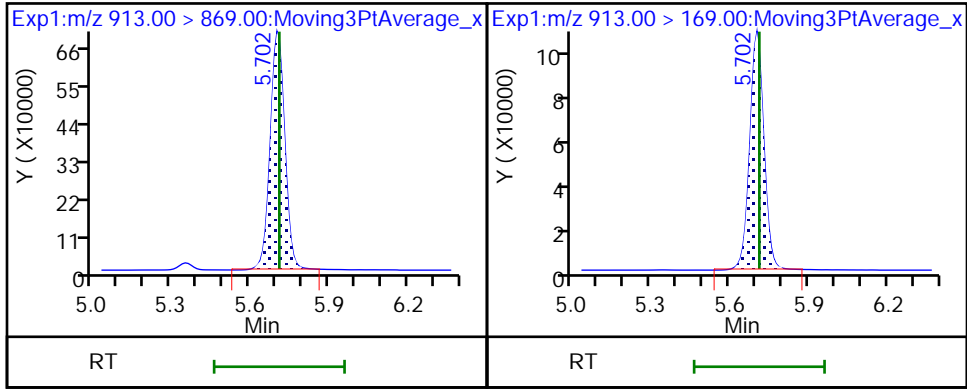
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



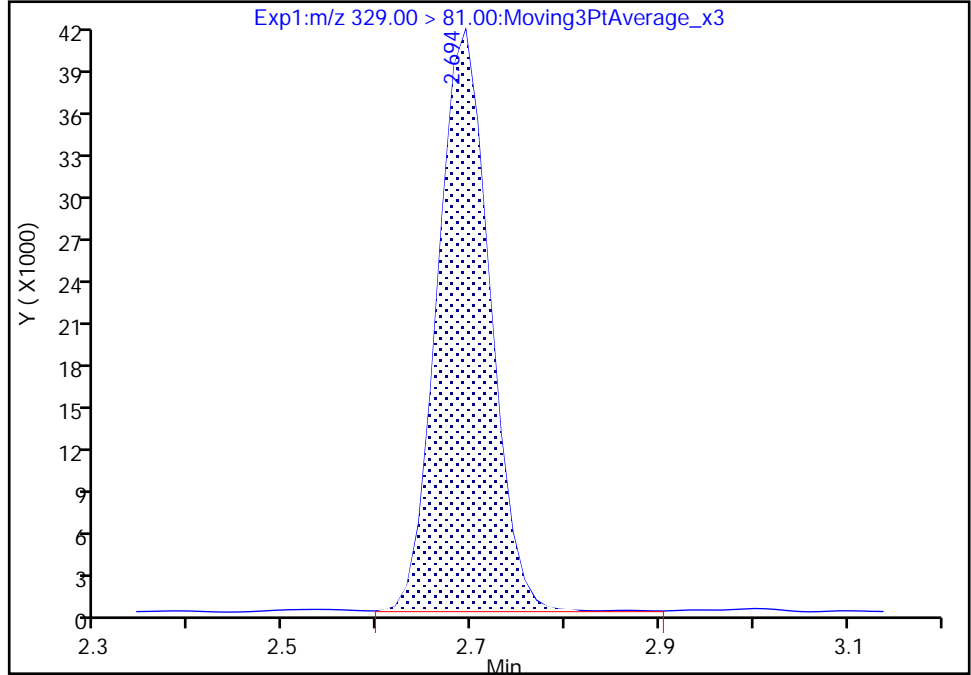
Eurofins Burlington

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Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395
Signal: 1

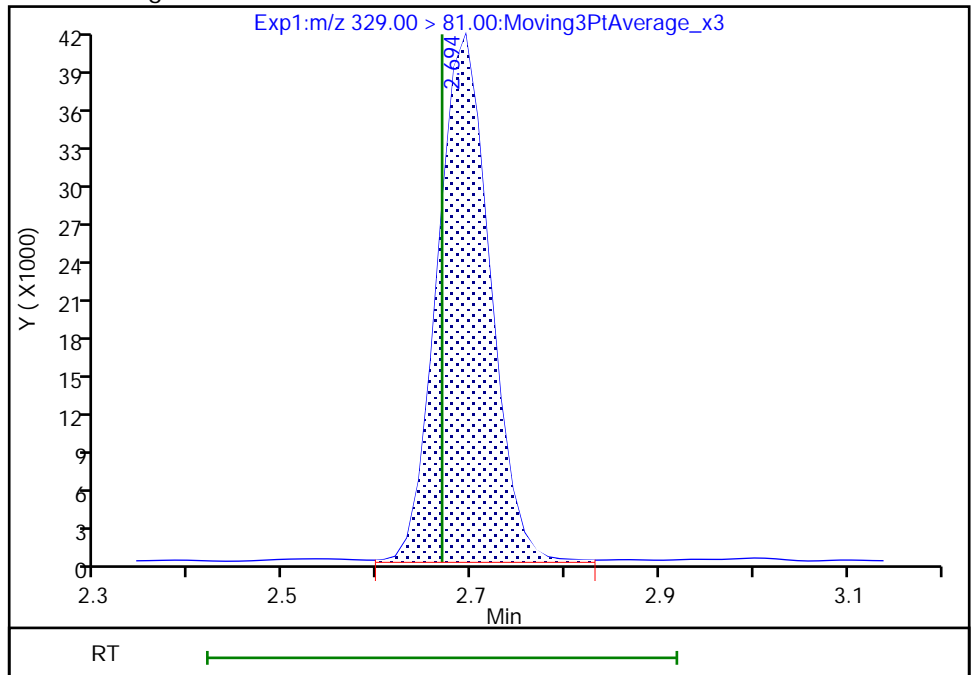
RT: 2.69
Area: 163019
Amount: 1.315426
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 162324
Amount: 1.308848
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:45:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

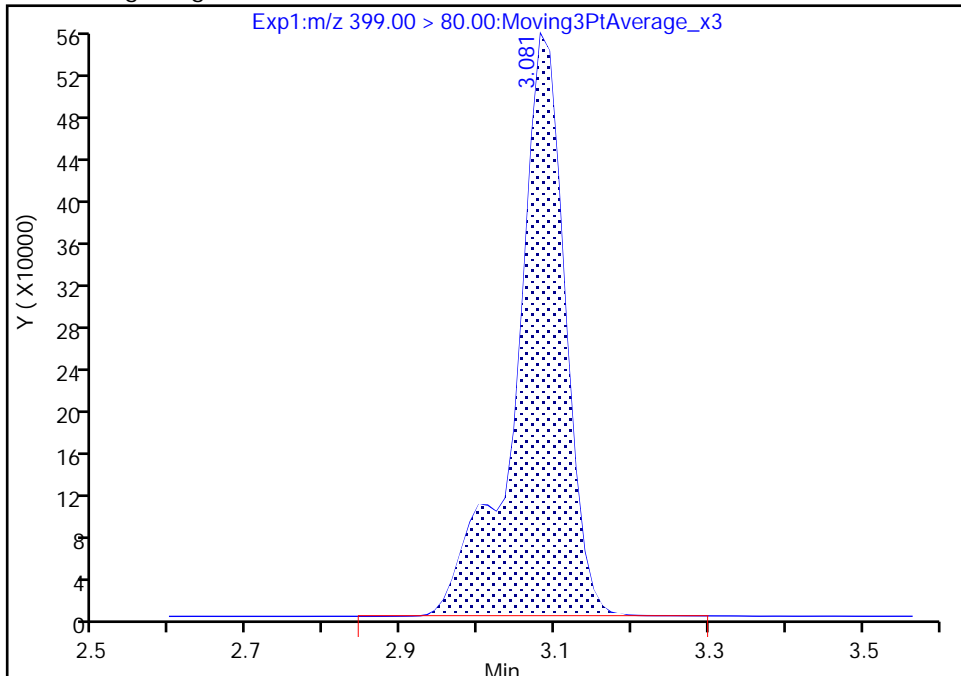
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Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

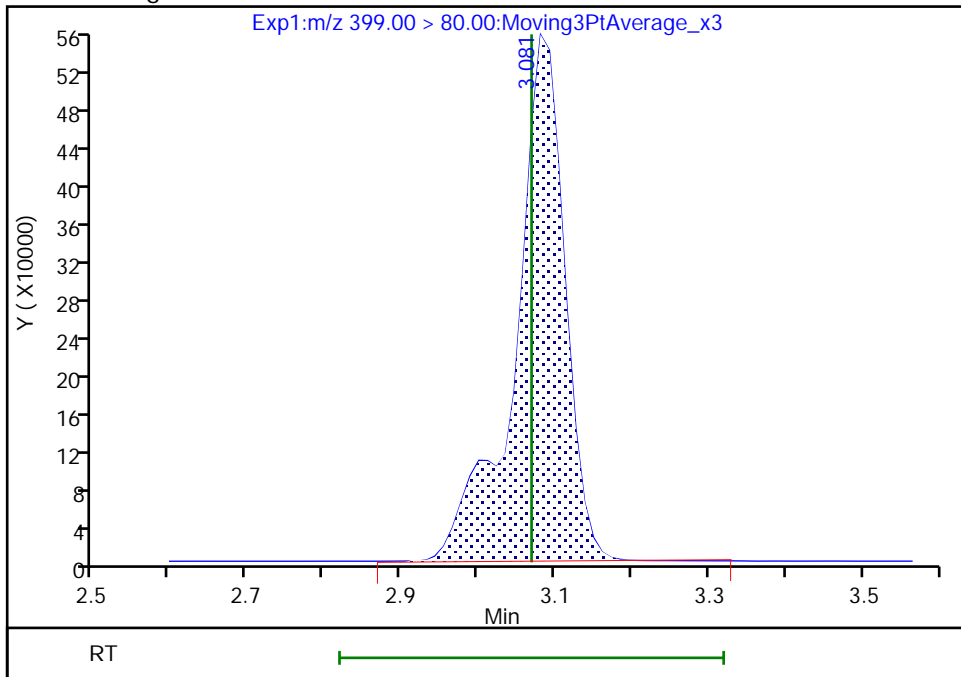
RT: 3.08
Area: 2493734
Amount: 1.858667
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 2494896
Amount: 1.859631
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:07:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

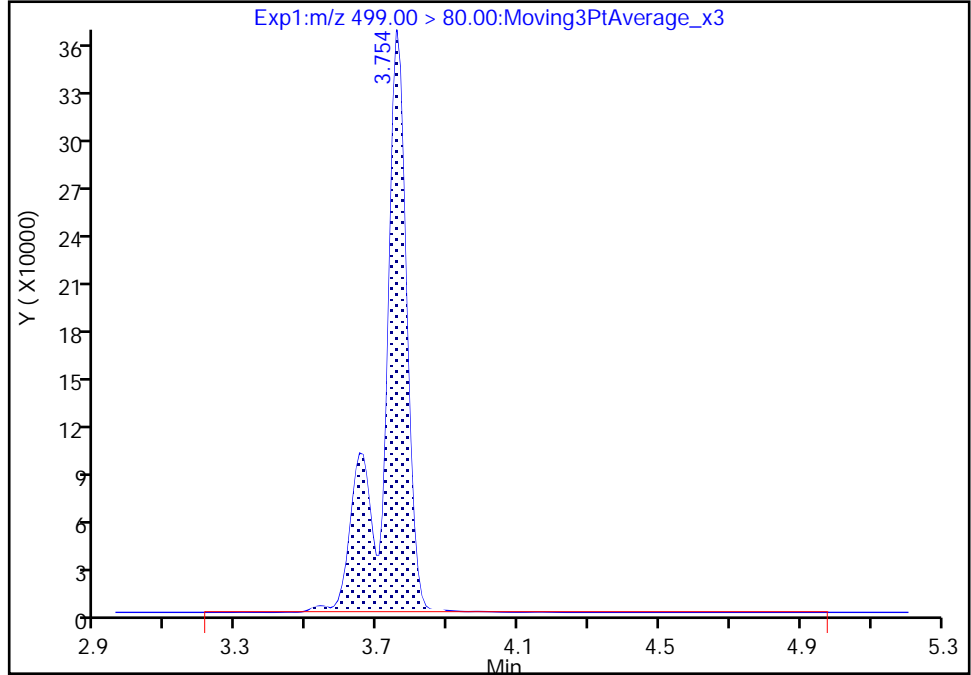
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Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

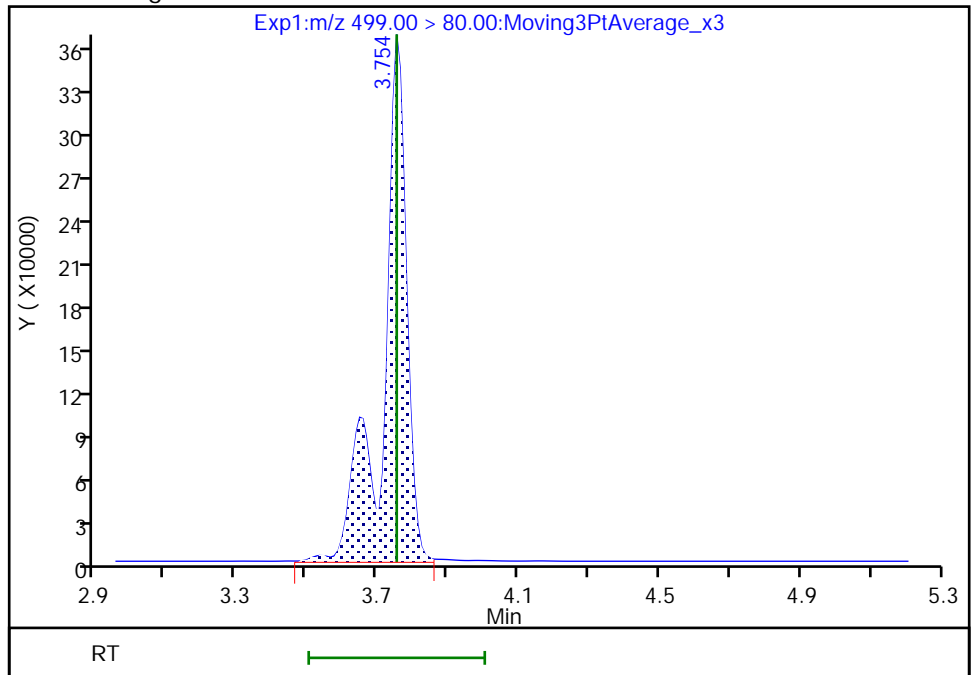
RT: 3.75
Area: 1687892
Amount: 2.054771
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1676540
Amount: 2.045838
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:45:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

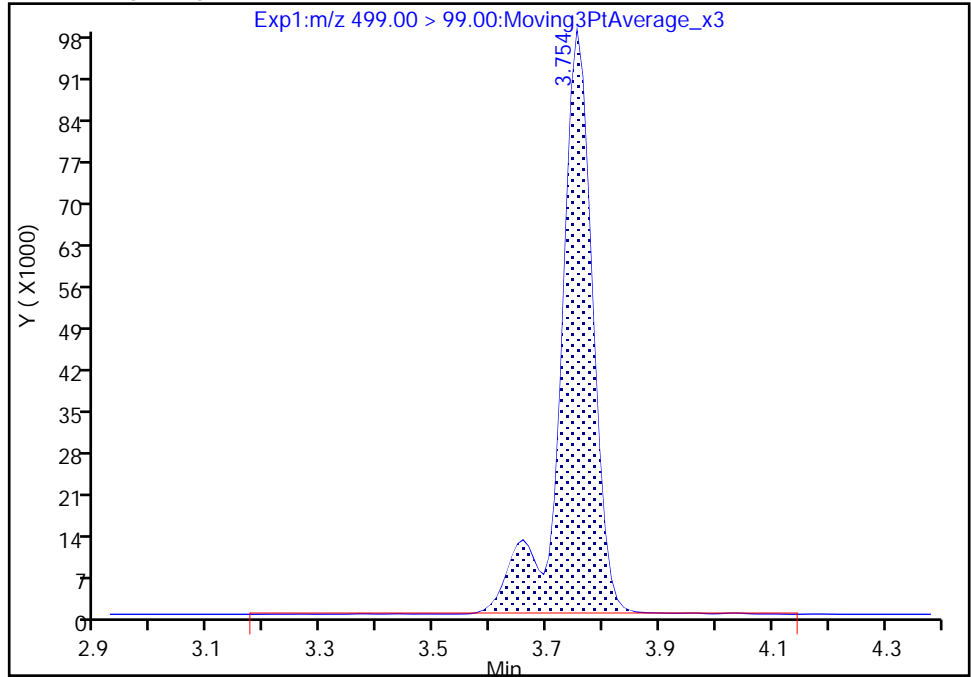
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Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

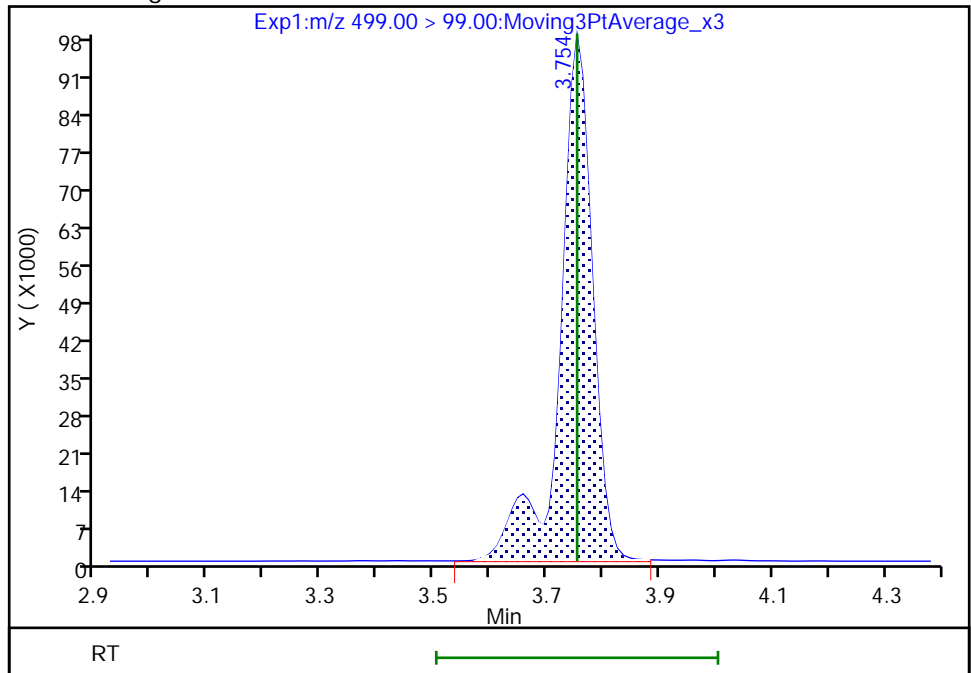
RT: 3.75
Area: 398560
Amount: 2.054771
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 395367
Amount: 2.045838
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:45:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

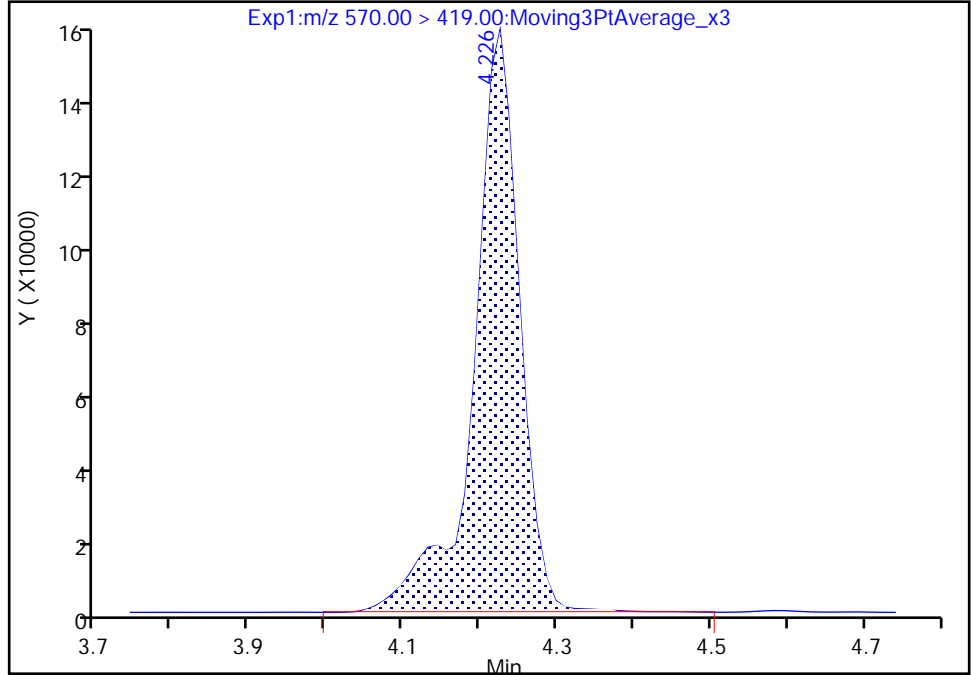
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Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

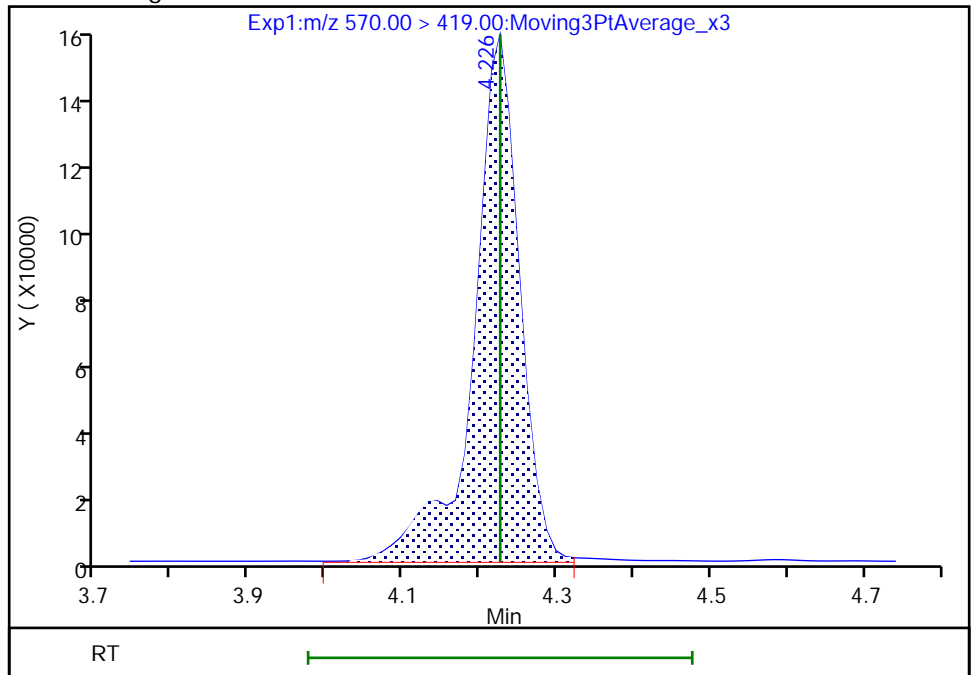
RT: 4.23
Area: 659942
Amount: 2.430418
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 655768
Amount: 2.420238
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:46:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

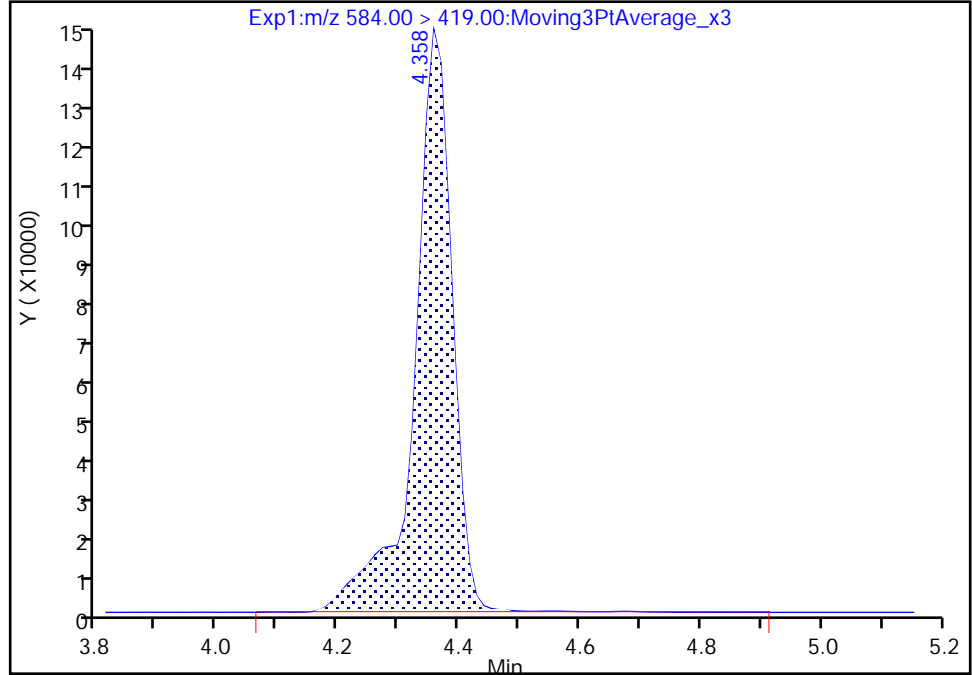
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Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

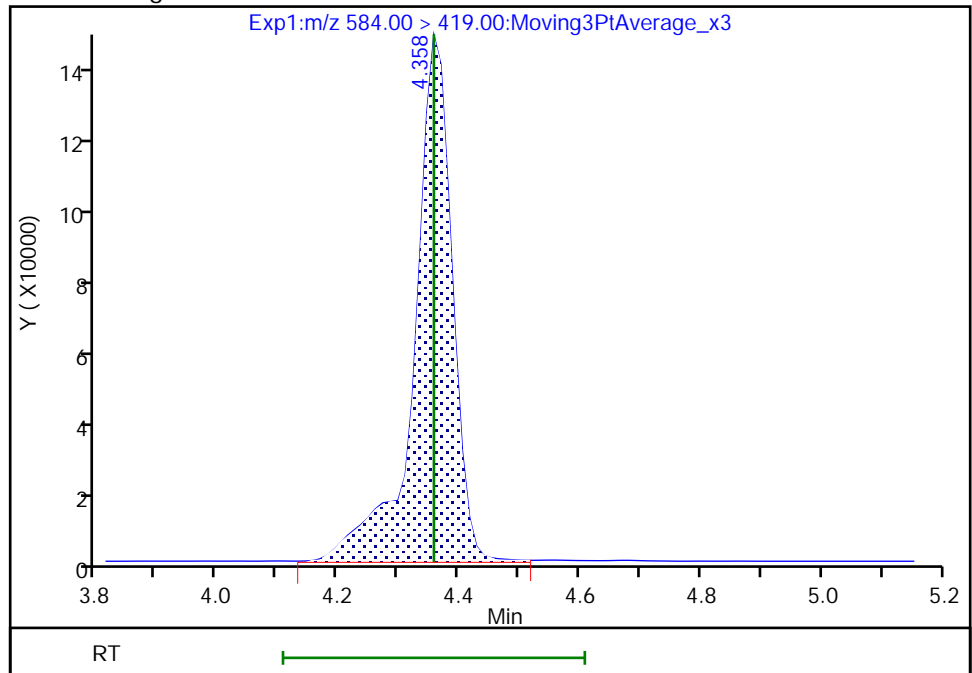
RT: 4.36
Area: 639205
Amount: 2.450773
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 635414
Amount: 2.443733
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:46:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

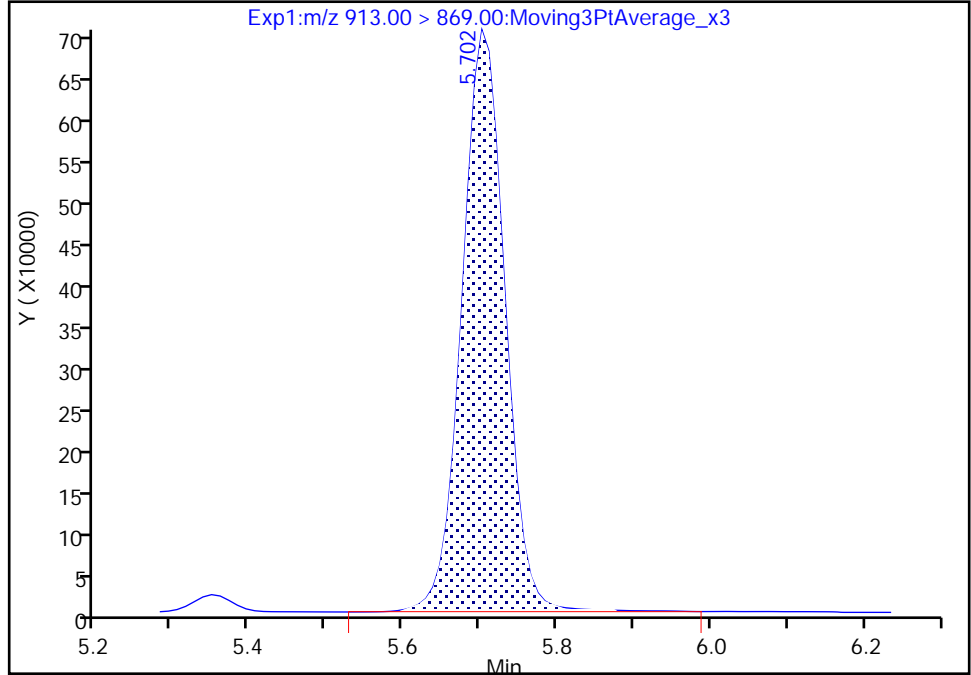
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL09.d
Injection Date: 11-Jan-2023 18:15:43 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

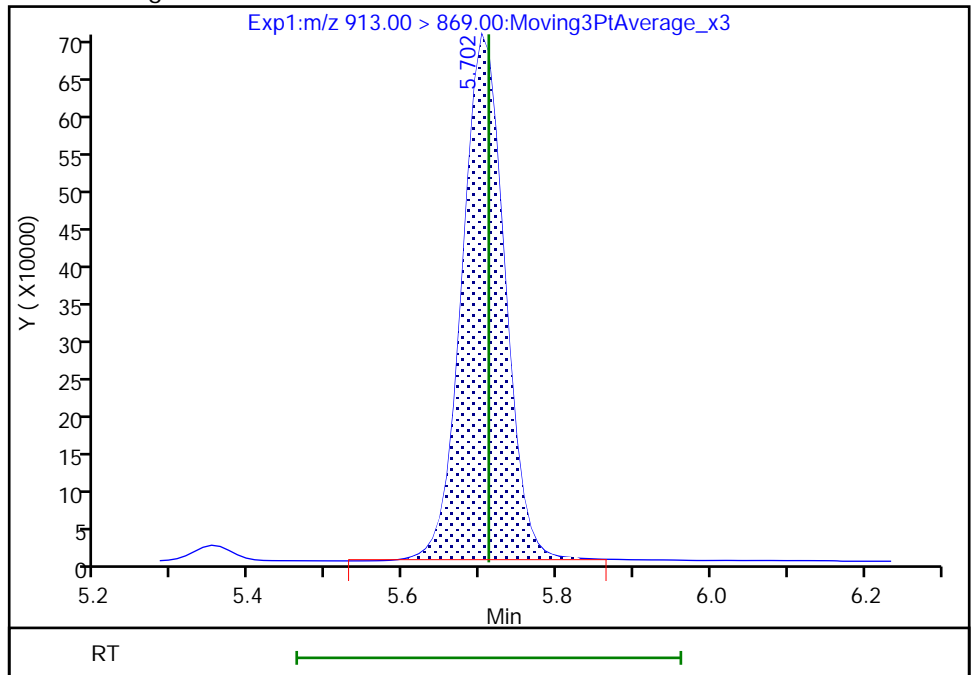
RT: 5.70
Area: 2733159
Amount: 2.426996
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 2725859
Amount: 2.427417
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:47:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Jan-2023 18:23:53 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053969-010 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:35:49 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 12:27:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.605	1965657	1.29	104	14395	
2 Perfluorobutanoic acid	212.90 > 169.00	2.086	2.094	-0.008	1.000	14409984	9.63	96.3	1354	
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1648533	1.34	107	7918	
4 Perfluoropentanoic acid	262.90 > 219.00	2.384	2.370	0.014	1.000	12853538	8.51	85.1	428	
D 47 13C3 PFBS	301.90 > 80.00	2.411	2.384	0.027	0.700	1581618	1.17	101	153537	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.000	12374636	8.49	Target=1.99	96.0	18435
	298.90 > 99.00	2.411	2.384	0.027	1.000	6207197		1.99(0.99-2.98)	96.0	4301
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.694	2.669	0.025	1.000	3035667	9.30	99.5	24016	
D 60 M2-4:2 FTS	329.00 > 81.00	2.694	2.669	0.025	0.782	128831	1.18	101	217	M
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.793	1605635	1.26	101	7687	
6 Perfluorohexanoic acid	313.00 > 269.00	2.731	2.706	0.025	1.000	11773517	8.70	Target=13.02	87.0	2296
	313.00 > 119.00	2.731	2.706	0.025	1.000	899999		13.08(6.51-19.53)	87.0	1364
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.731	2.706	0.025	0.883	10642645	9.33	Target=2.73	99.5	8786
	349.00 > 99.00	2.731	2.706	0.025	0.883	4035274		2.64(1.37-4.10)	99.5	7310
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.844	2.806	0.038	1.000	2379250	9.54	95.4	25972	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.844	2.806	0.038	0.825	311994	1.41		113	1631	
D 11 18O2 PFHxS										
403.00 > 84.00	3.093	3.069	0.024	0.898	1090521	1.11		94.0	8419	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.093	3.069	0.024	1.000	9653257	9.54	Target=3.13	105	5437	M
399.00 > 99.00	3.093	3.069	0.024	1.000	2880270		3.35(1.57-4.70)	105	3359	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.093	3.069	0.024	0.898	1632836	1.28		102	9937	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.093	3.069	0.024	1.000	12316130	8.85	Target=3.92	88.5	2253	
363.00 > 169.00	3.093	3.069	0.024	1.000	3167230		3.89(1.96-5.88)	88.5	5815	
77 DONA										
377.00 > 251.00	3.138	3.104	0.034	0.834	28682102	8.23	Target=3.04	87.4	16289	
377.00 > 85.00	3.127	3.104	0.023	0.831	10167455		2.82(1.52-4.56)	87.4	8740	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.437	3.417	0.020	0.997	176307	1.14		96.0	618	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.437	3.417	0.020	1.000	3014732	8.87		93.5	2195	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.437	3.417	0.020	0.913	7913887	8.95	Target=4.66	94.1	11851	
449.00 > 99.00	3.437	3.417	0.020	0.913	1664130		4.76(2.33-6.99)	94.1	4721	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.426	0.020	1.000	1647382	1.22		97.4	8329	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.426	0.020		1651748	1.25			7227	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.426	0.020	1.000	12889938	8.99	Target=3.01	89.9	978	
413.00 > 169.00	3.446	3.426	0.020	1.000	4428645		2.91(1.50-4.51)	89.9	10798	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.754	0.010	1.092	725859	1.22		102	1638	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.754	0.010	1.000	6568603	8.90	Target=4.13	95.9	3898	M
499.00 > 99.00	3.764	3.754	0.010	1.000	1542453		4.26(2.07-6.20)	95.9	2819	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.774	0.009	1.000	13704243	9.70	Target=8.58	97.0	2279	
463.00 > 169.00	3.783	3.774	0.009	1.000	1591136		8.61(4.29-12.87)	97.0	11153	
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.774	0.009	1.098	1728974	1.31		105	6961	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	16112575	9.15		98.1	14586	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	5228531	8.53	Target=2.32	88.9	9580	
549.00 > 99.00	4.052	4.043	0.009	1.077	2211833		2.36(1.16-3.48)	88.9	14841	
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.185	1693037	1.25		100	10311	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.000	13531217	9.34	Target=10.61	93.4	4280	
513.00 > 169.00	4.084	4.074	0.010	1.000	1249373		10.83(5.30-15.91)	93.4	4066	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.185	249058	1.29		107	942	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	3193567	8.46		88.4	22417	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	11060932	9.54		95.4	6384	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.203	1441602	1.31		105	4351	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.226	343314	1.29		103	203	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	2439119	9.85		98.5	1766	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.148	4241647	9.28	Target=2.46	96.3	5498	
599.00 > 99.00	4.322	4.322	0.0	1.148	1675030		2.53(1.23-3.69)	96.3	3863	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.261	1432402	1.23		98.1	4841	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	11599574	9.27	Target=11.25	92.7	2967	
563.00 > 169.00	4.346	4.346	0.0	1.000	1048701		11.06(5.62-16.87)	92.7	5498	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.370	4.358	0.012	1.003	2286410	9.88		98.8	1292	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.265	311422	1.22		97.5	656	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.180	22948092	8.42		89.4	10969	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	10906213	8.96	Target=8.15	89.6	1030	
613.00 > 169.00	4.583	4.584	-0.001	1.000	1298890		8.40(4.08-12.23)	89.6	4738	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.330	1494839	1.28		102	5082	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	2019665	8.47		87.8	7740	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.265	1612015	8.69	Target=0.53	89.7	9271	
699.00 > 99.00	4.760	4.770	-0.010	1.265	3182306		0.51(0.26-0.79)	89.7	16291	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.799	4.799	0.0	1.047	11366065	9.35	Target=6.29	93.5	1139	
663.00 > 169.00	4.799	4.799	0.0	1.047	1804481		6.30(3.14-9.43)	93.5	5348	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.997	4.998	-0.001	1.000	1174671	9.53	Target=0.93	95.3	4564	
713.00 > 219.00	4.997	4.998	-0.001	1.000	1380504		0.85(0.46-1.39)	95.3	10672	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.450	1234482	1.23		98.1	4400	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.362	5.362	0.0	1.002	10994952	9.84	Target=6.52	98.4	1295	
813.00 > 169.00	5.350	5.362	-0.012	1.000	1671568		6.58(3.26-9.77)	98.4	9124	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.362	-0.012	1.553	1527972	1.24		99.1	6090	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.711	0.0	1.067	9551474	9.66	Target=7.39	96.6	651	M
913.00 > 169.00	5.702	5.711	-0.009	1.066	1338542		7.14(3.69-11.08)	96.6	1211	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d

Injection Date: 11-Jan-2023 18:23:53

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

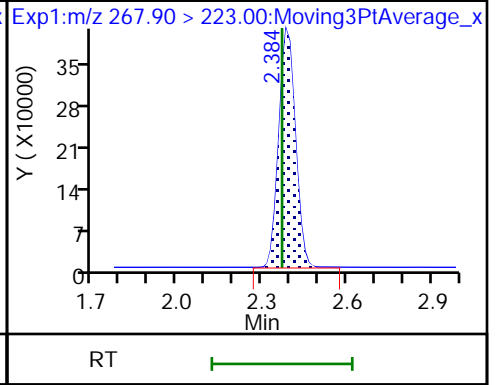
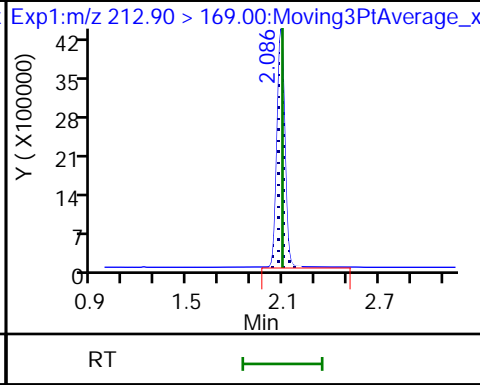
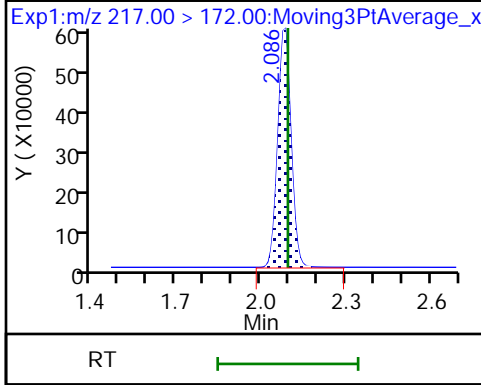
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

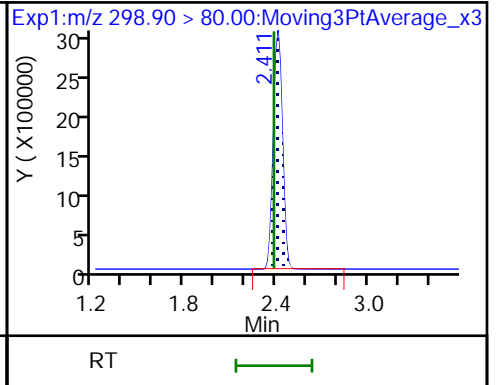
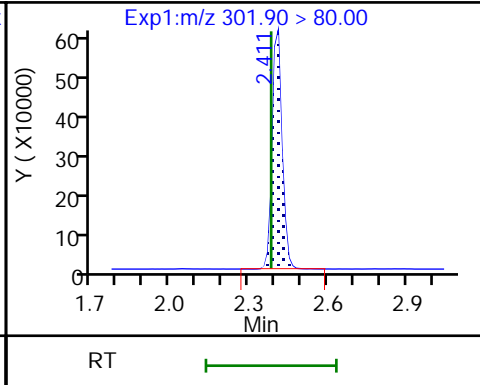
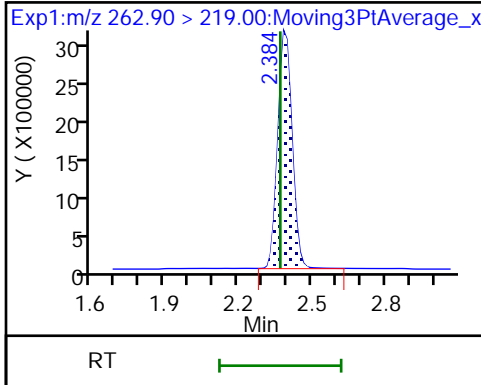
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

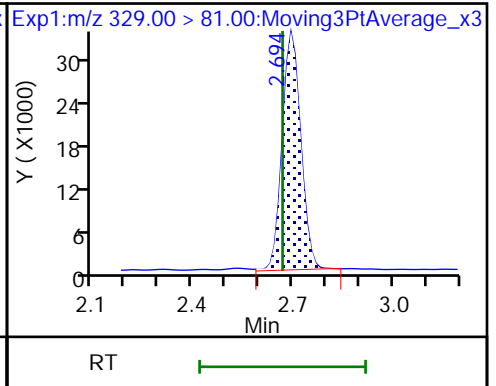
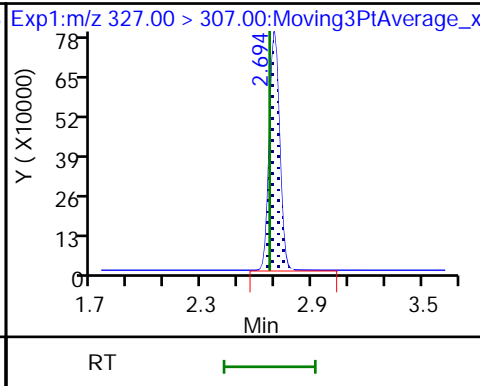
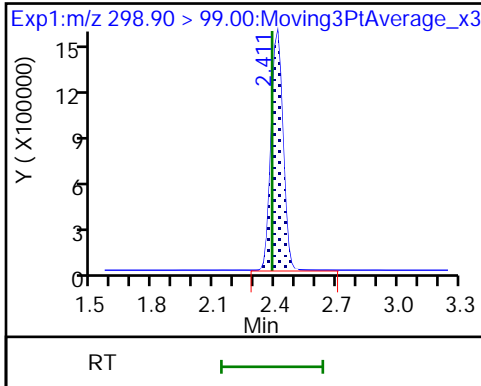
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

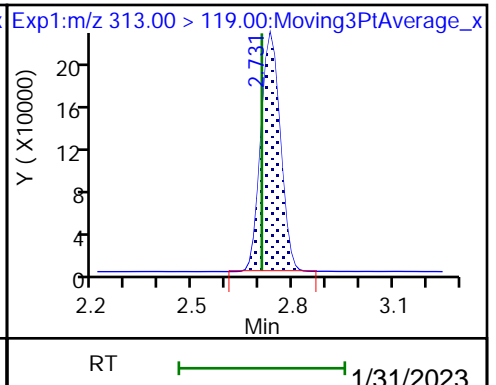
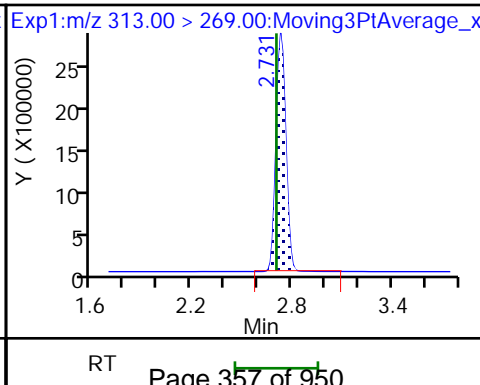
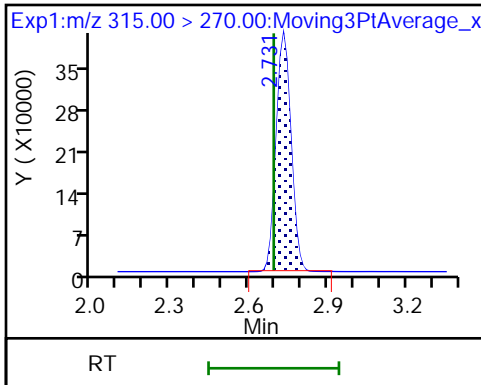
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

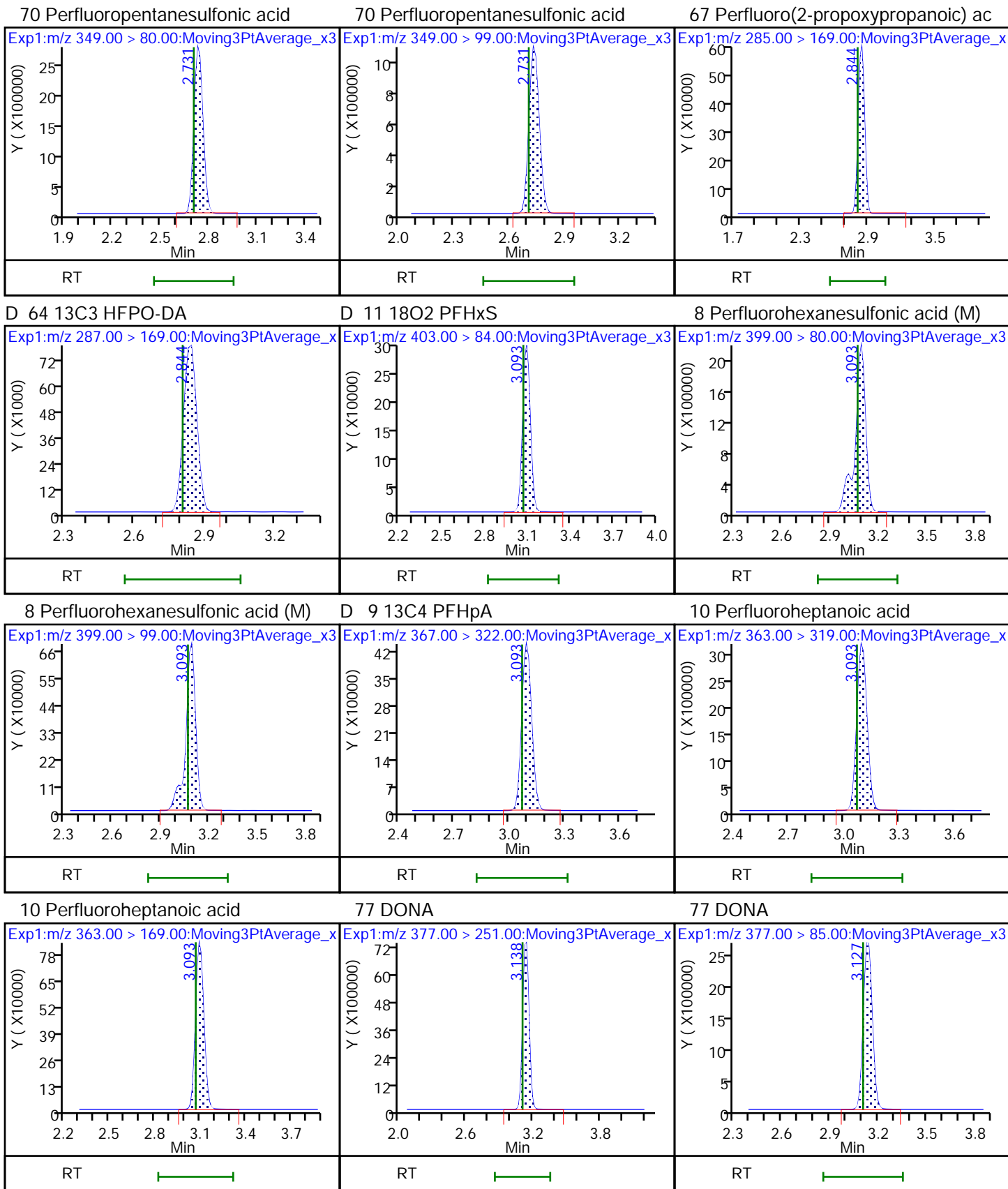


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

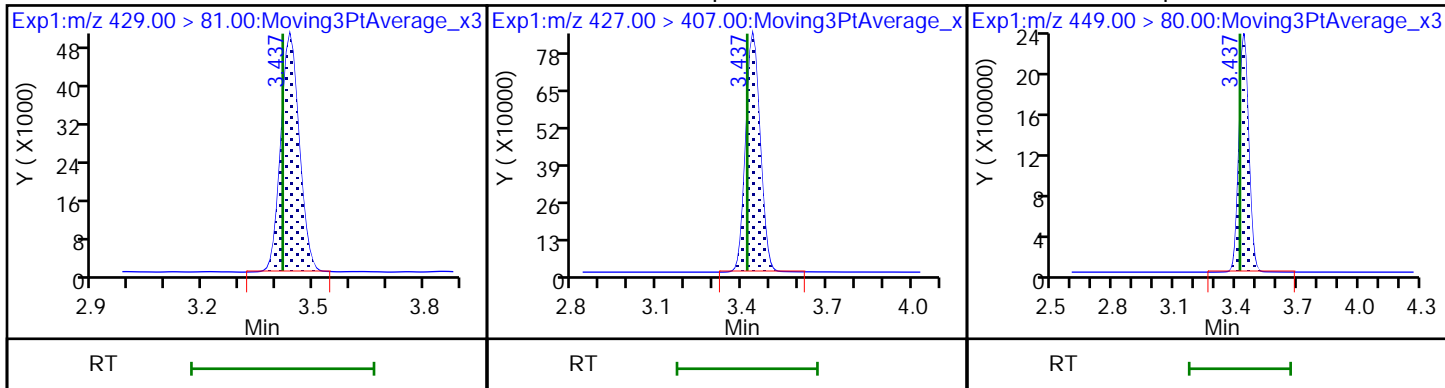




D 12 M2-6:2 FTS

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

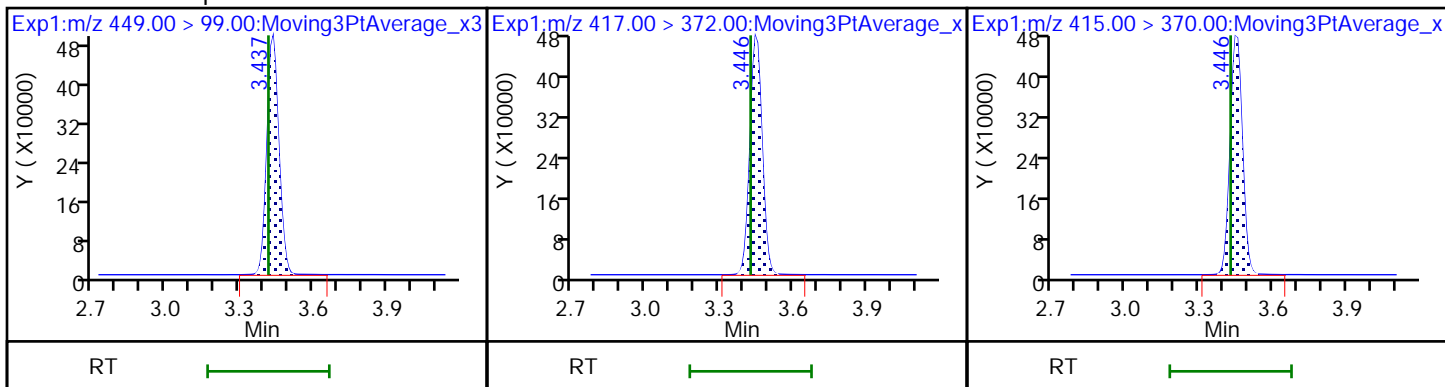
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

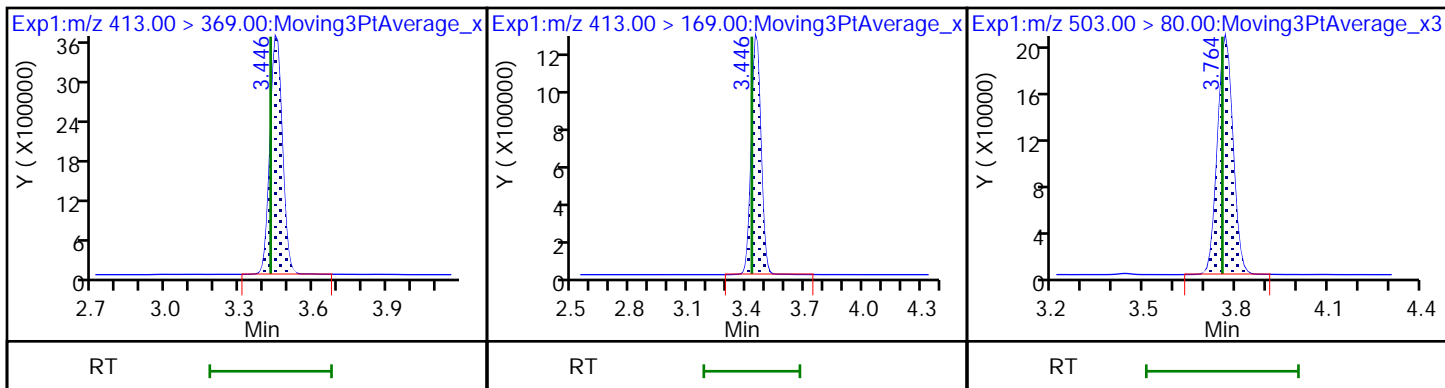
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

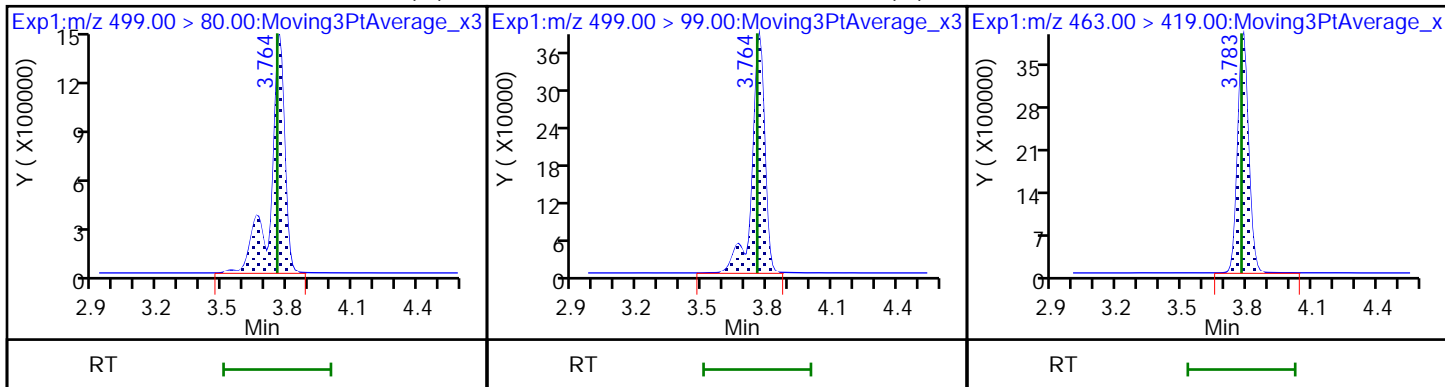
D 18 13C4 PFOS

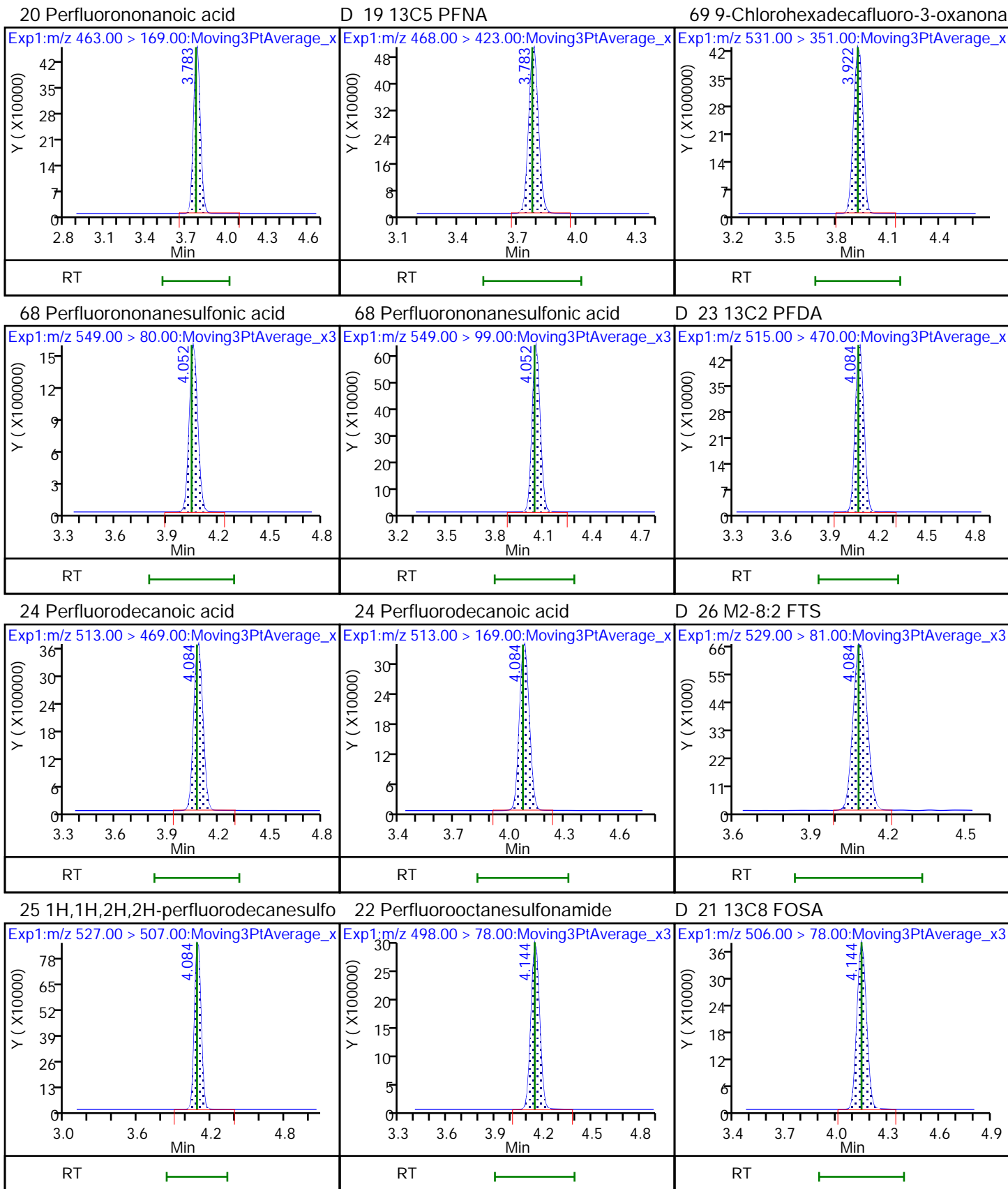


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

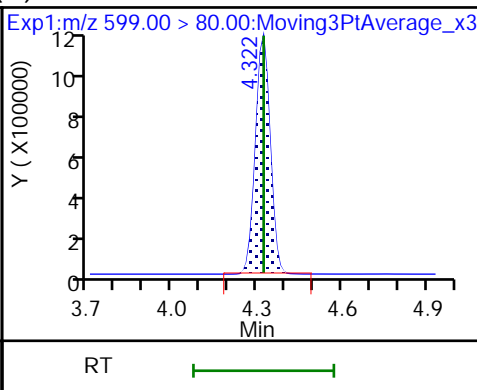
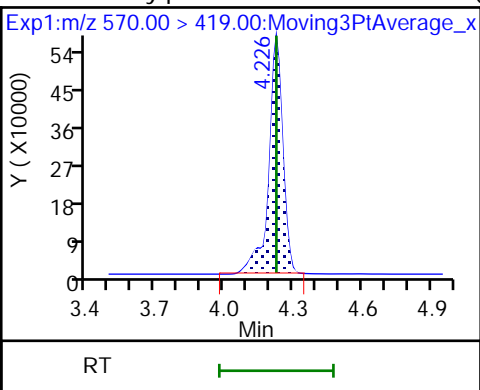
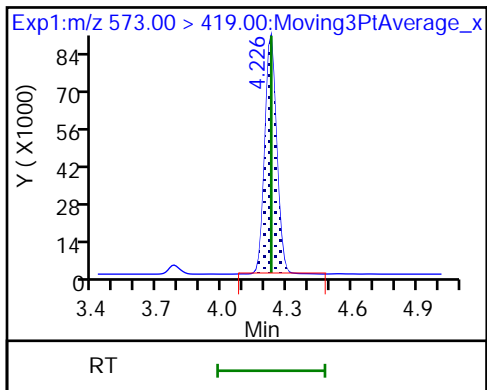
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

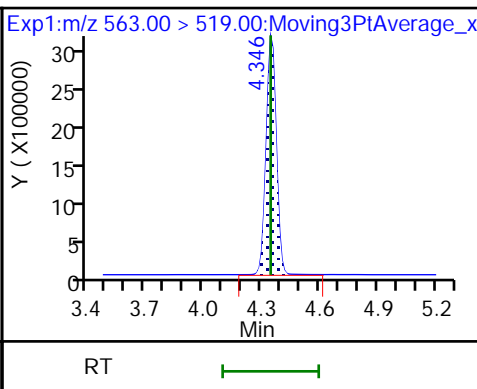
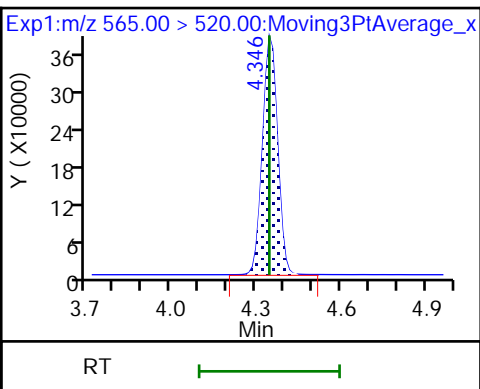
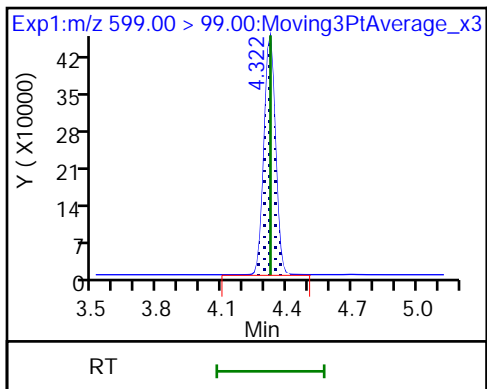
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

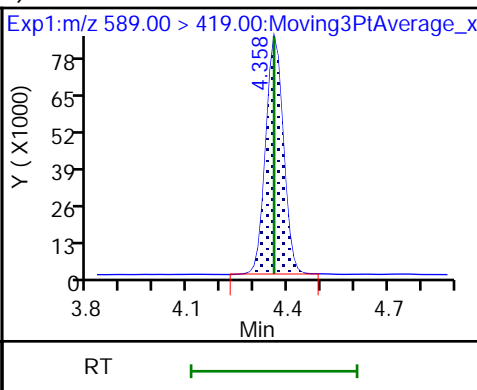
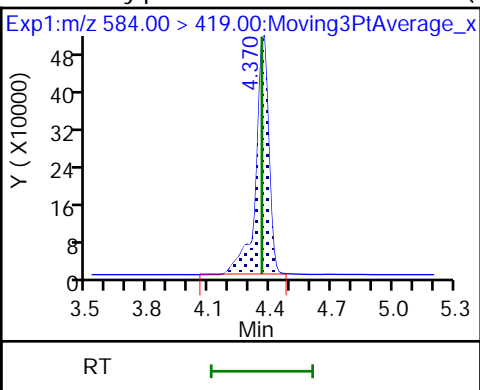
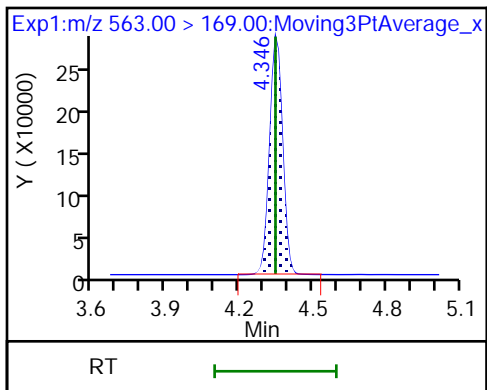
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

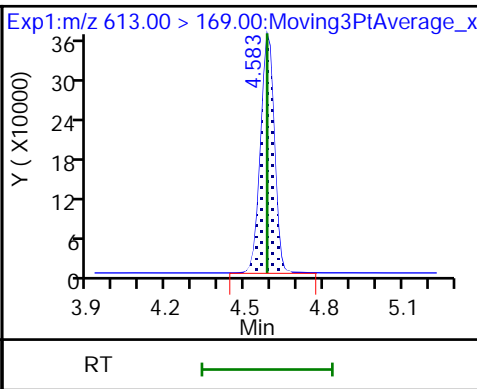
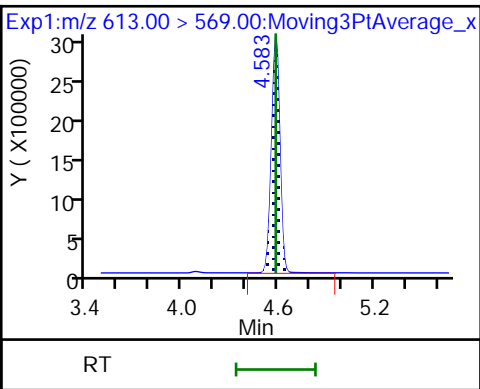
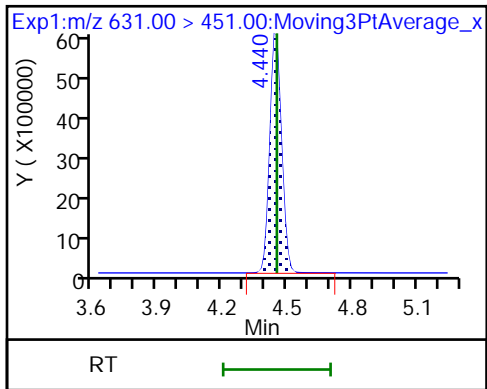
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

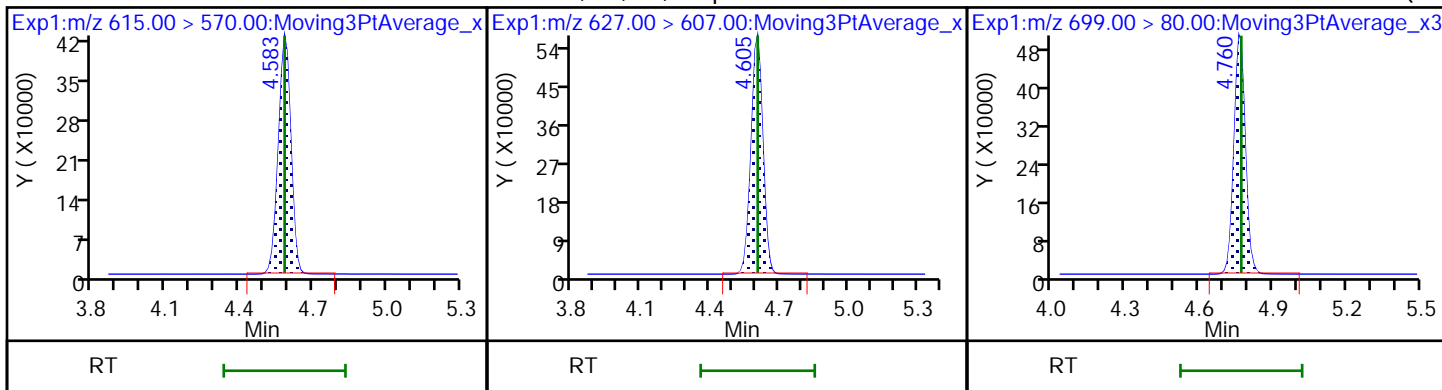
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDoA

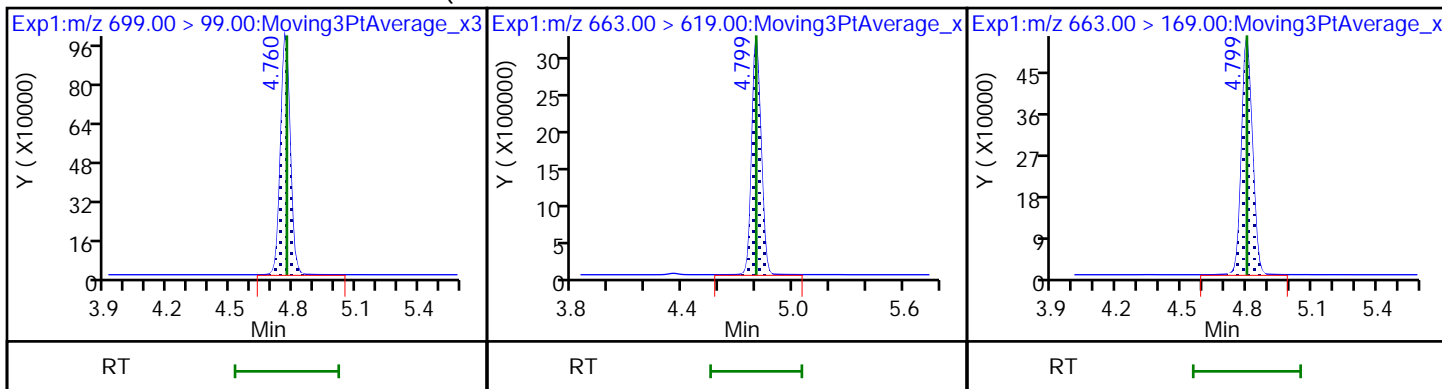
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

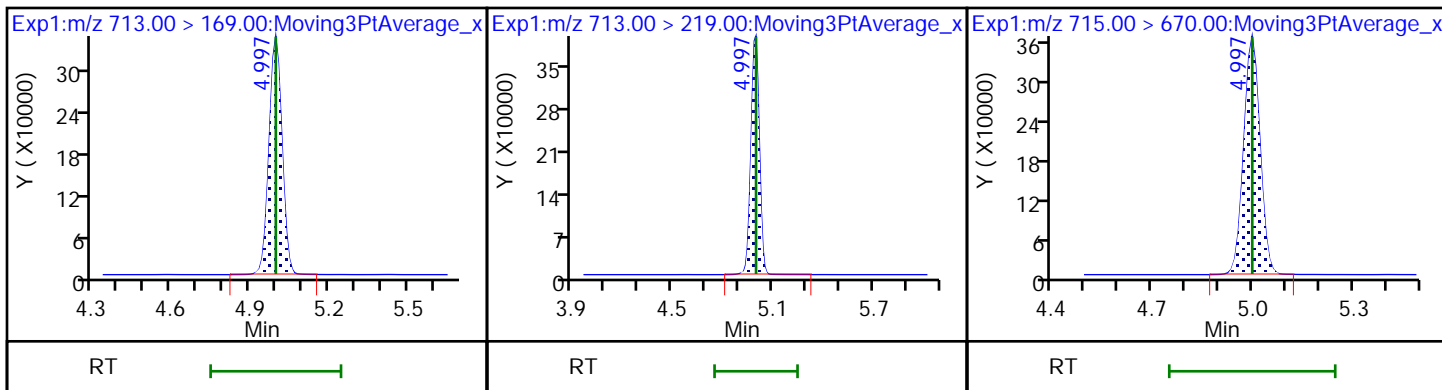
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

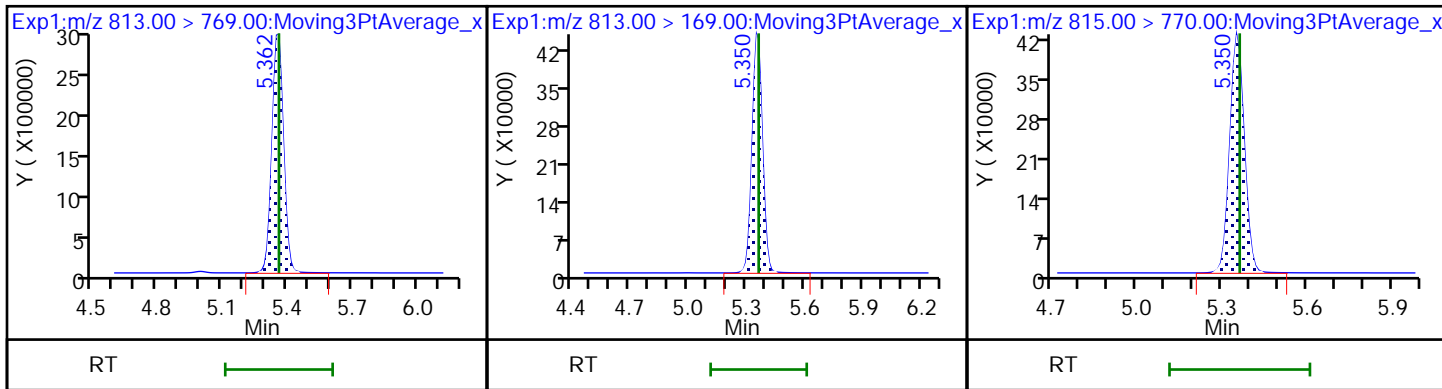
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

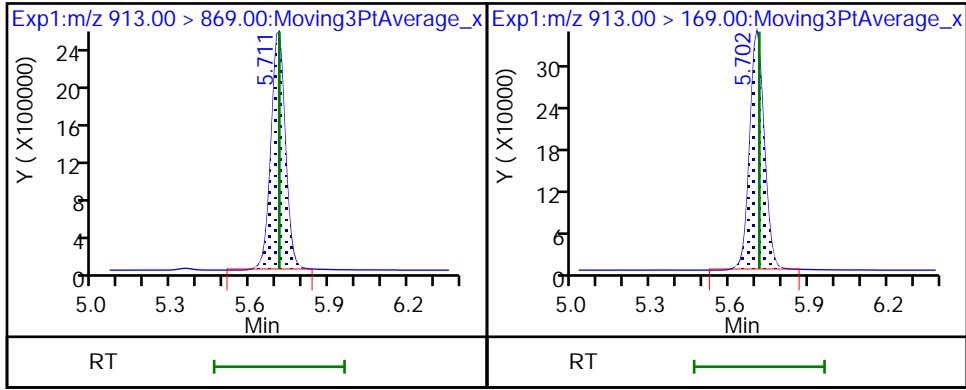
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

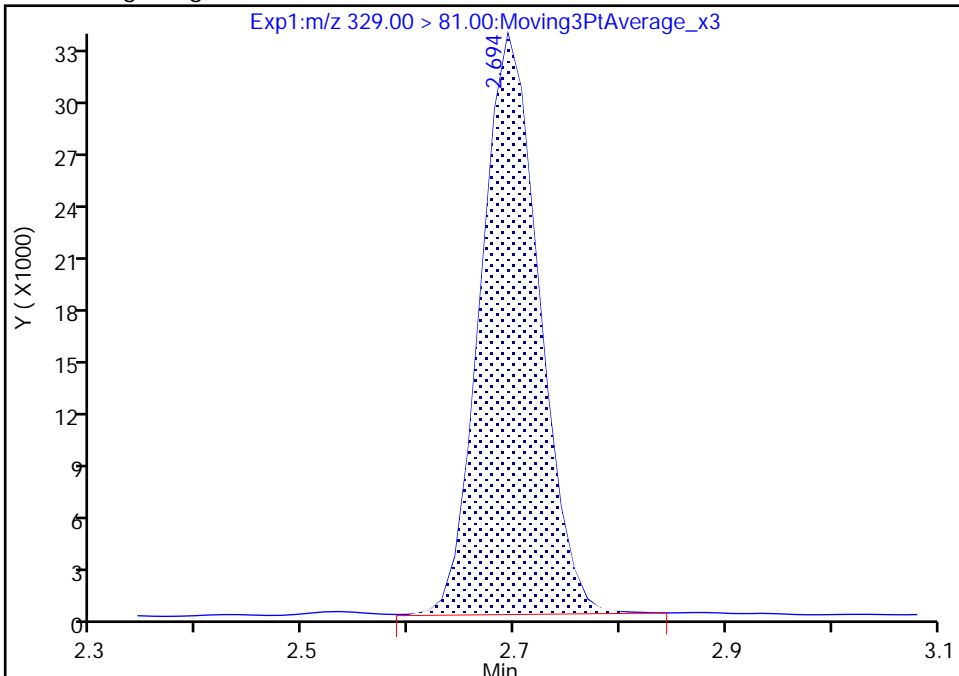
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

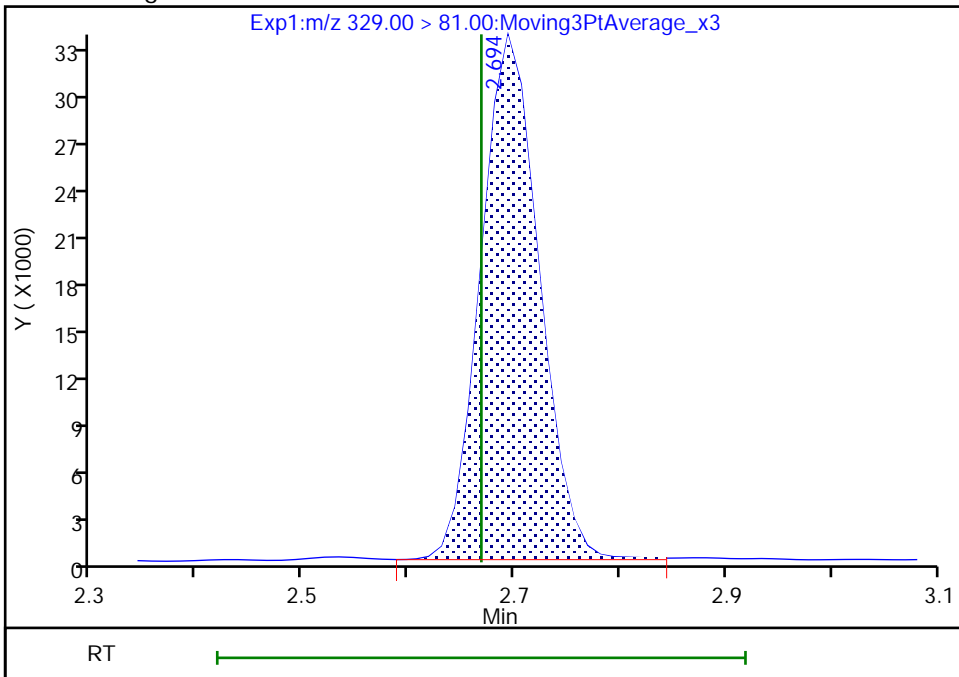
RT: 2.69
Area: 127655
Amount: 1.172834
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 128831
Amount: 1.181816
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:47:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

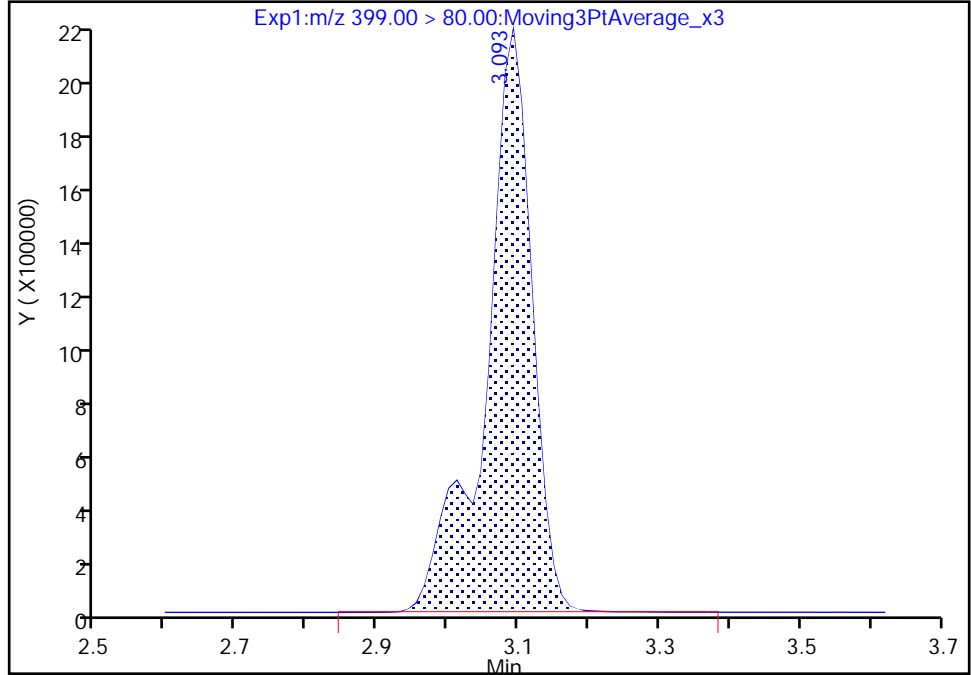
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

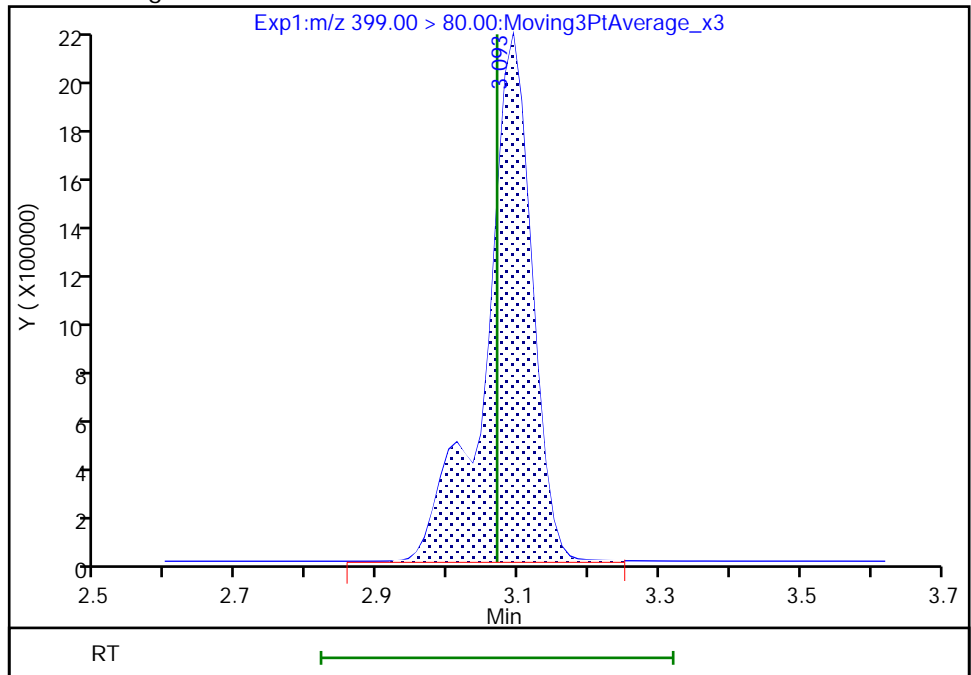
RT: 3.09
Area: 9659677
Amount: 9.541312
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 9653257
Amount: 9.536078
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:08:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

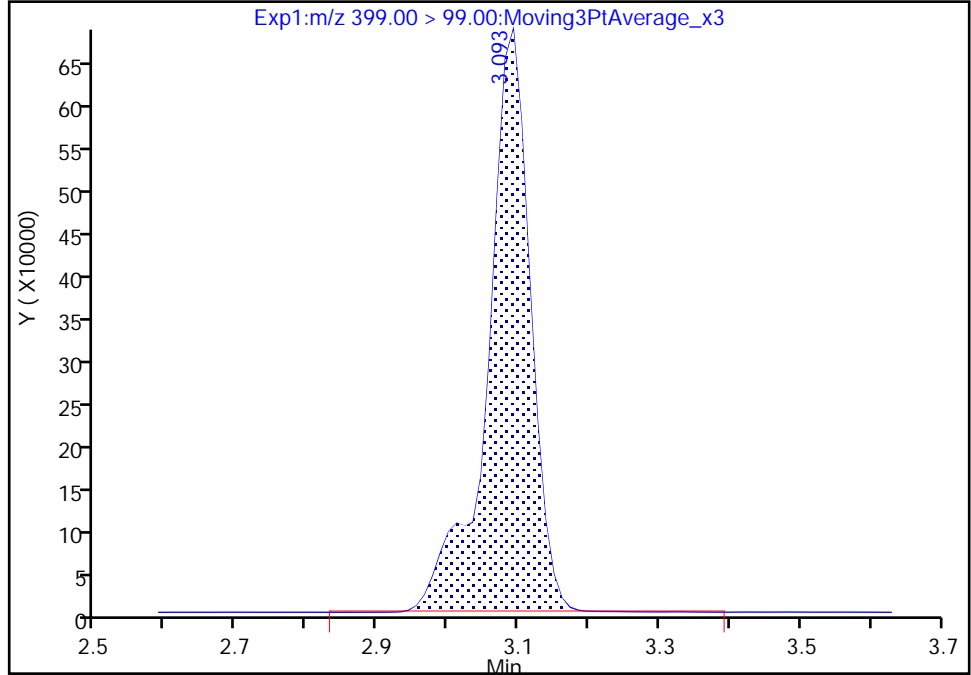
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

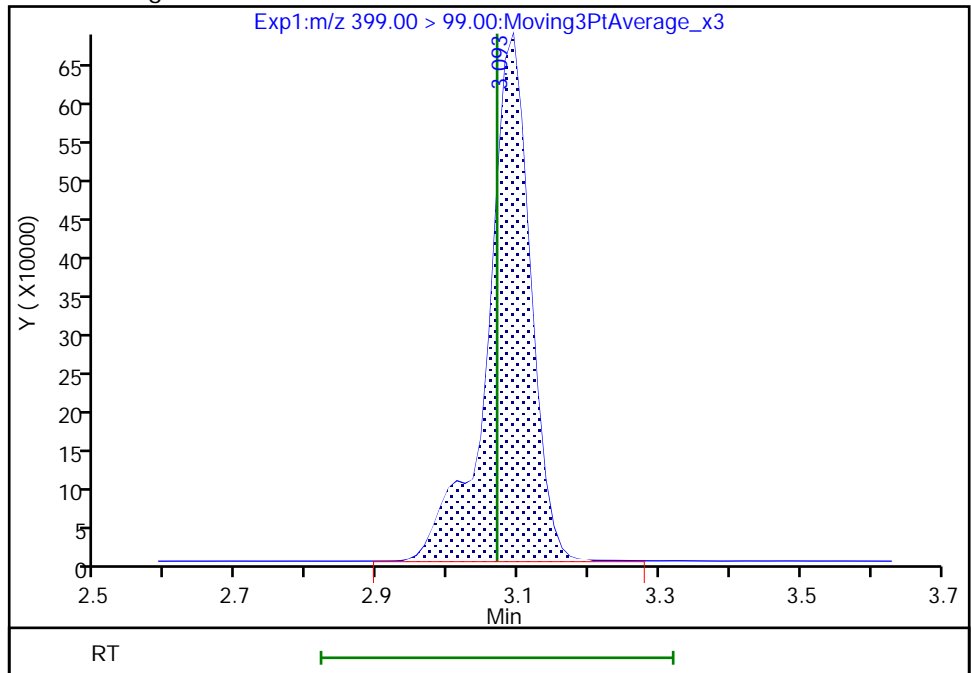
RT: 3.09
Area: 2887937
Amount: 9.541312
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2880270
Amount: 9.536078
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:08:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

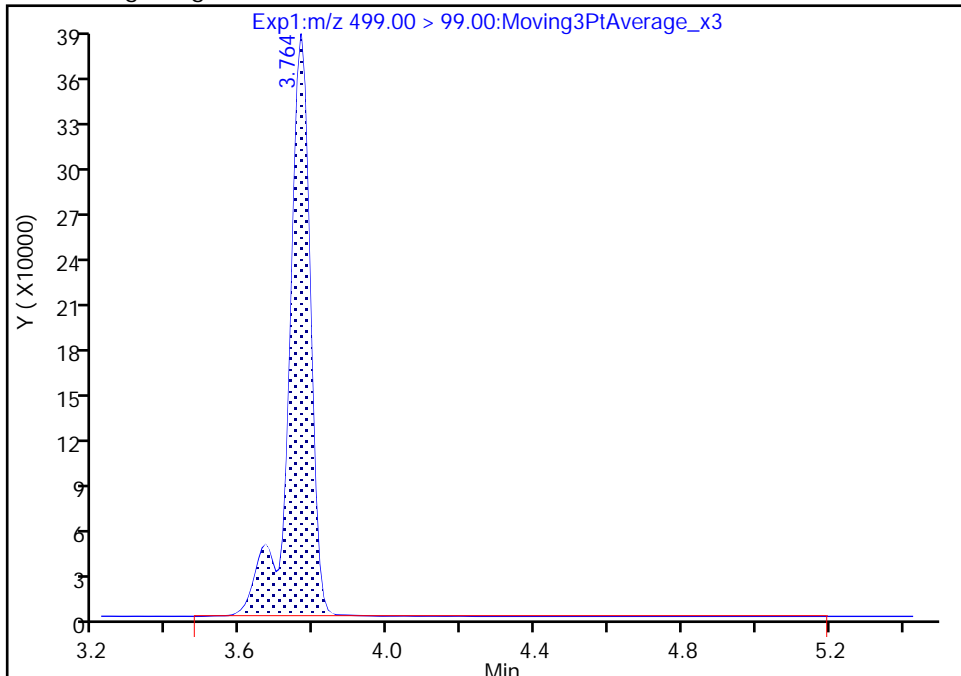
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

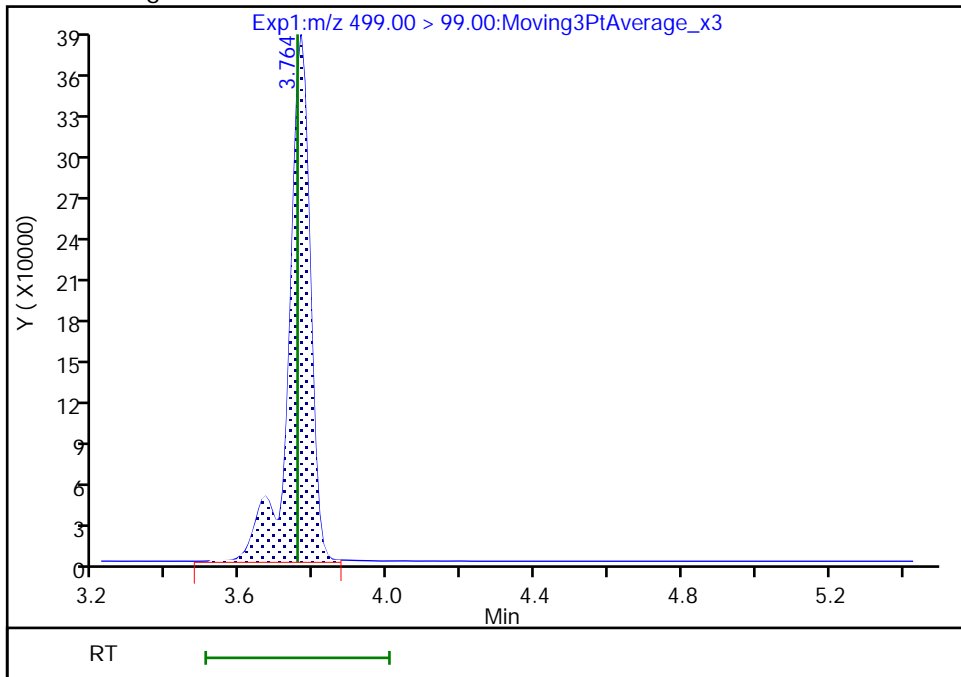
RT: 3.76
Area: 1548982
Amount: 8.914164
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1542453
Amount: 8.901775
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:48:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

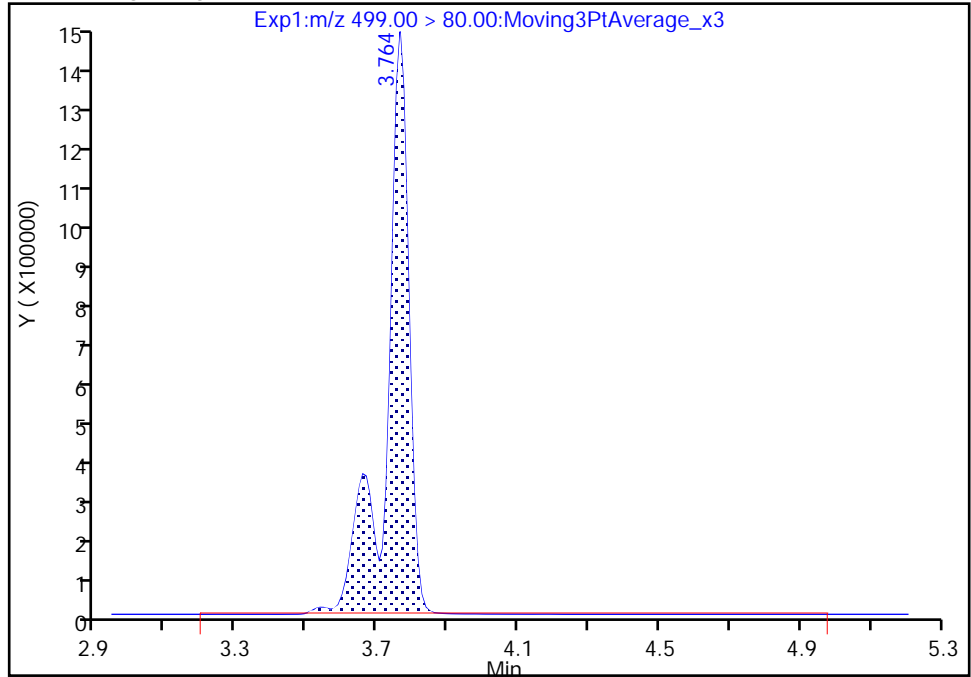
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

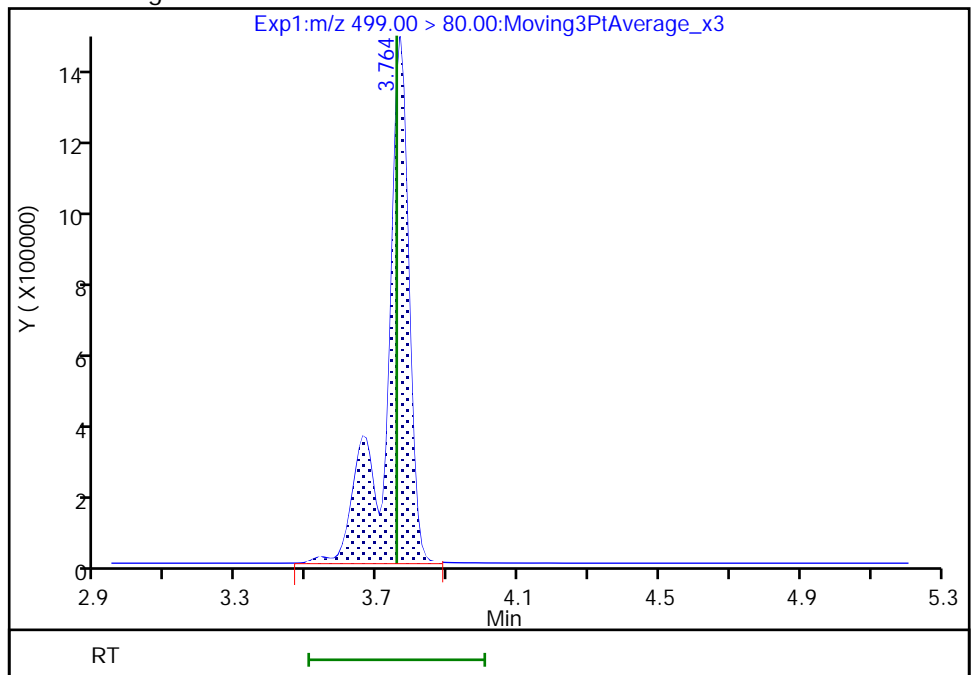
RT: 3.76
Area: 6586947
Amount: 8.914164
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 6568603
Amount: 8.901775
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:49:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

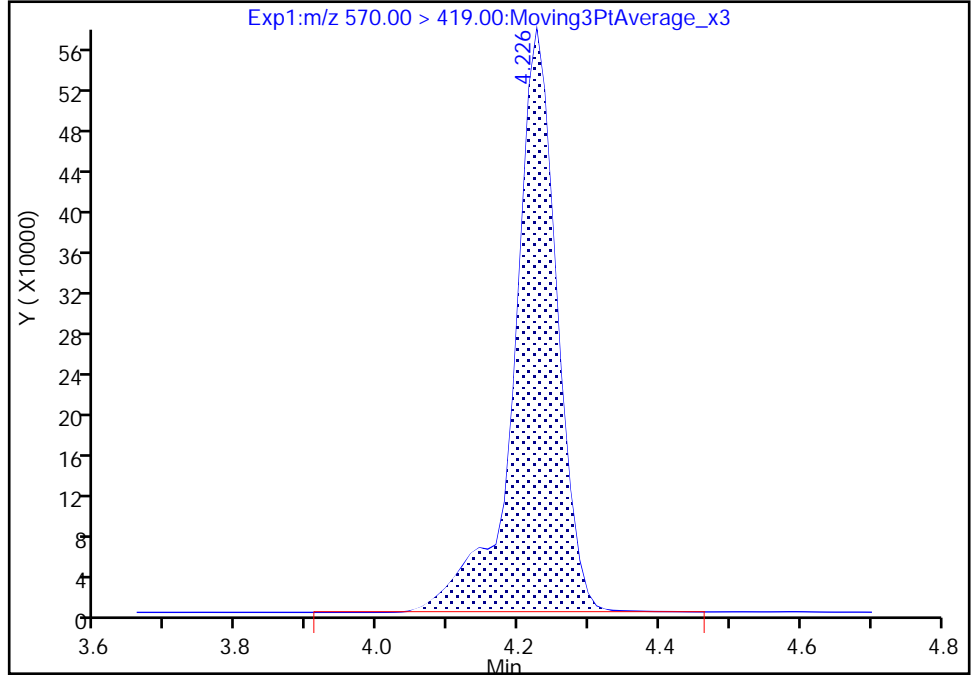
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

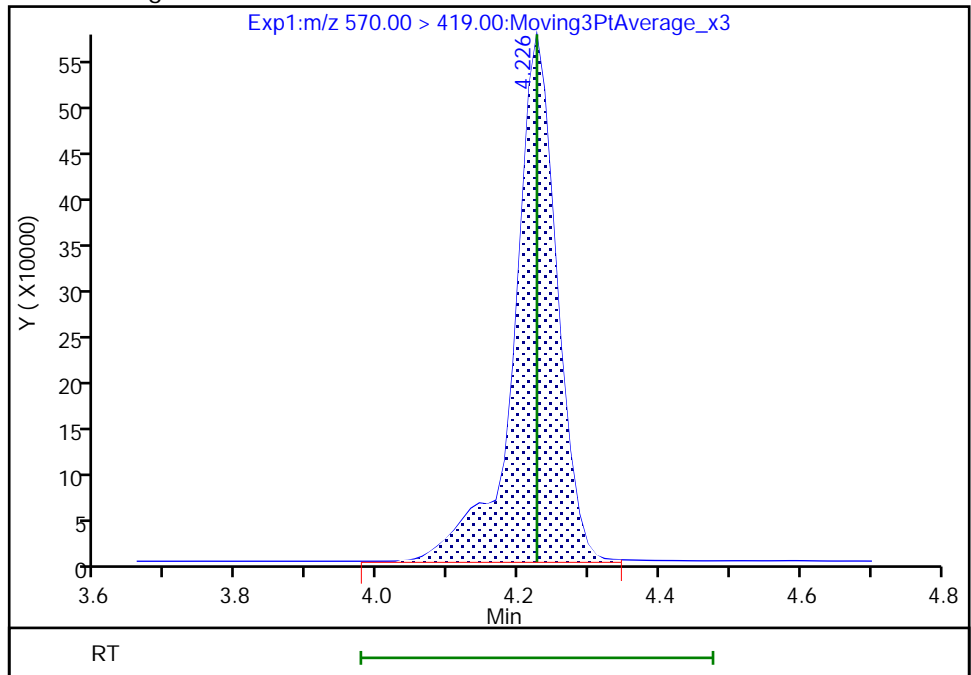
RT: 4.23
Area: 2446753
Amount: 9.869377
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 2439119
Amount: 9.849633
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:49:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

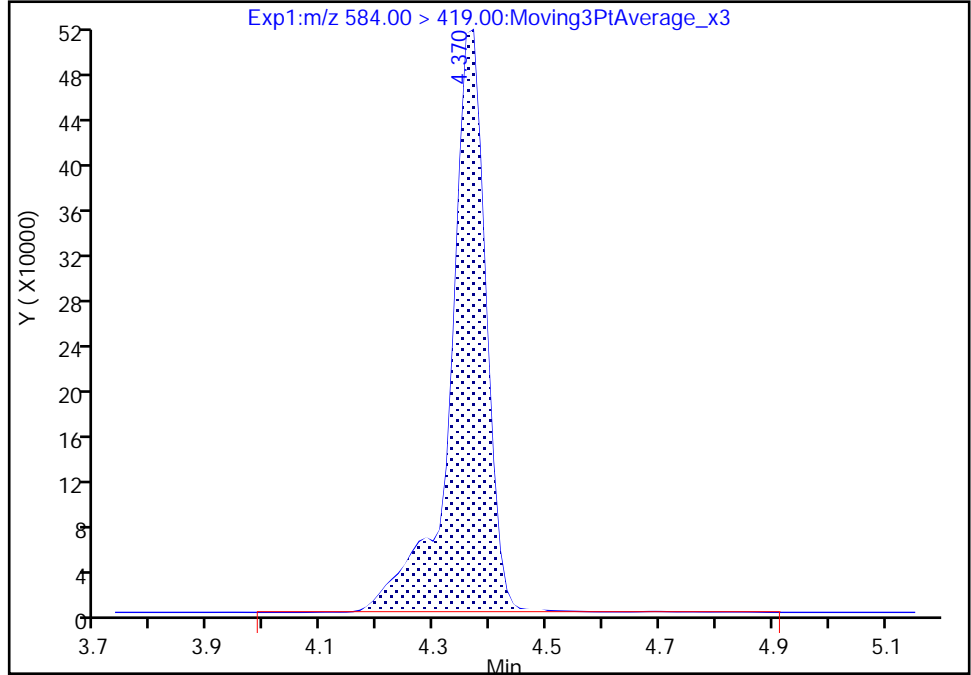
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

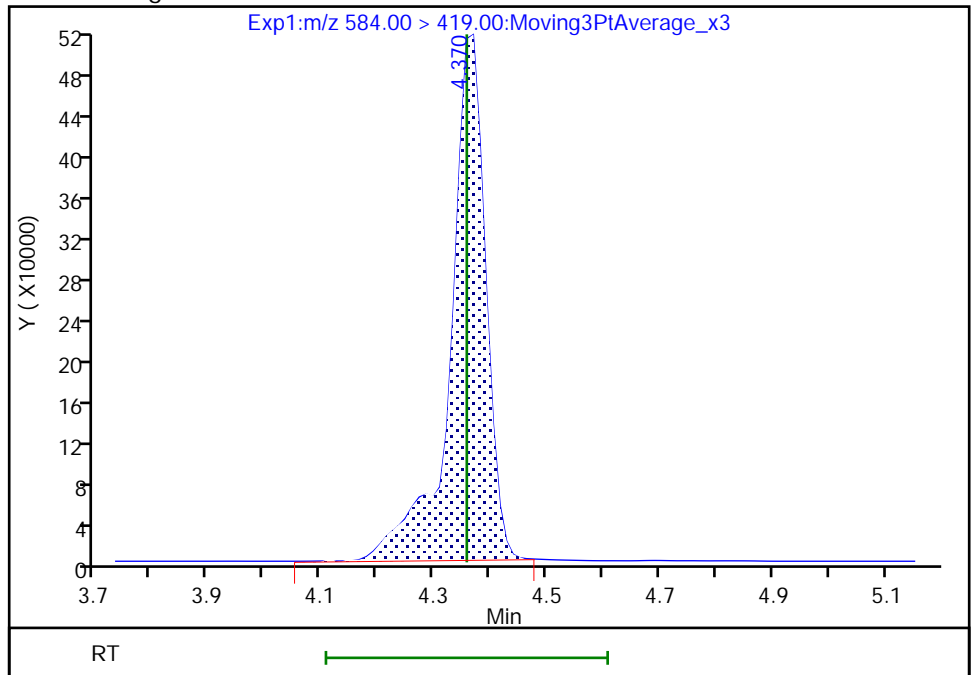
RT: 4.37
Area: 2307123
Amount: 9.946408
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 2286410
Amount: 9.877854
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:49:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

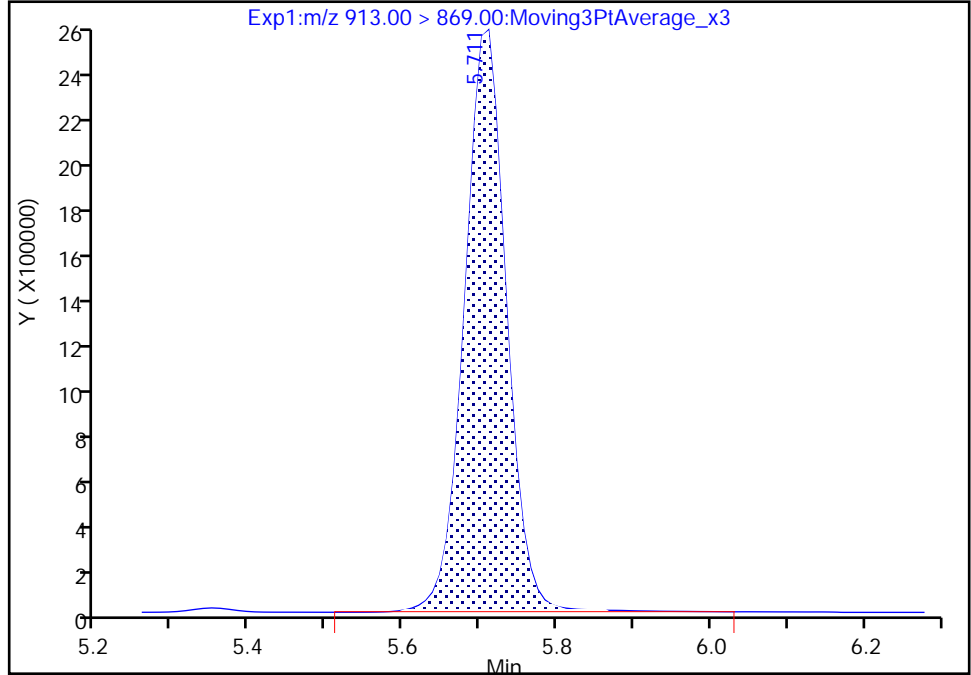
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

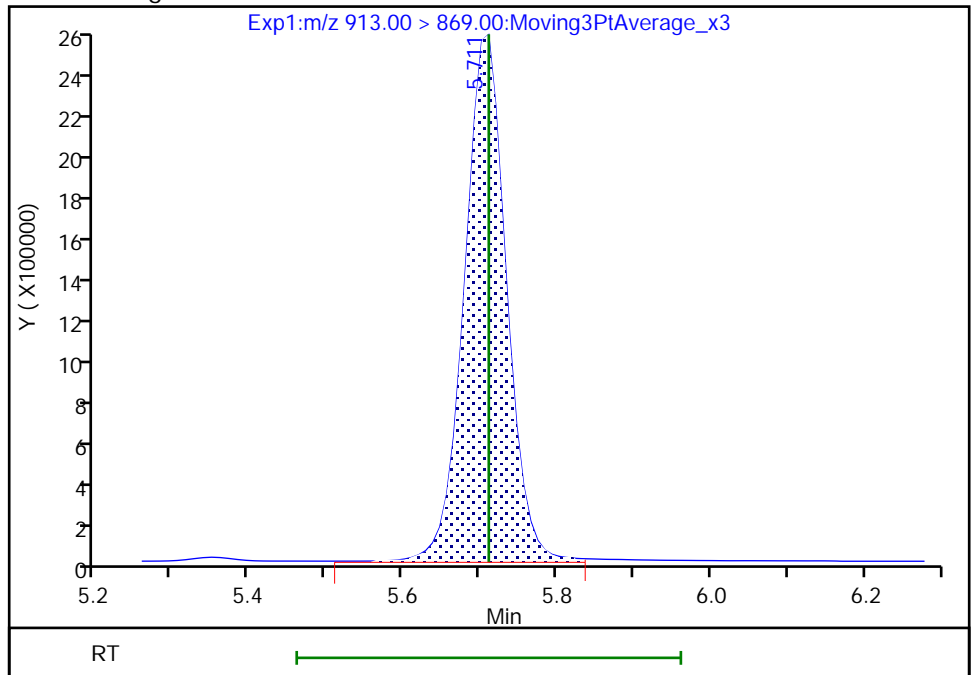
RT: 5.71
Area: 9610579
Amount: 9.697068
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 9551474
Amount: 9.660737
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:50:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

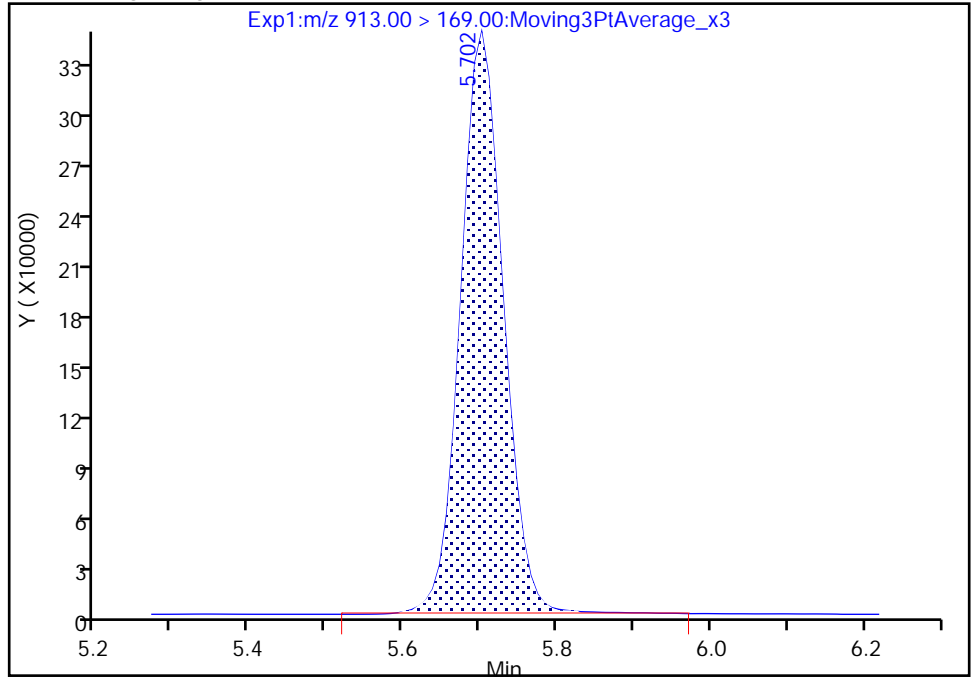
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
Injection Date: 11-Jan-2023 18:23:53 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

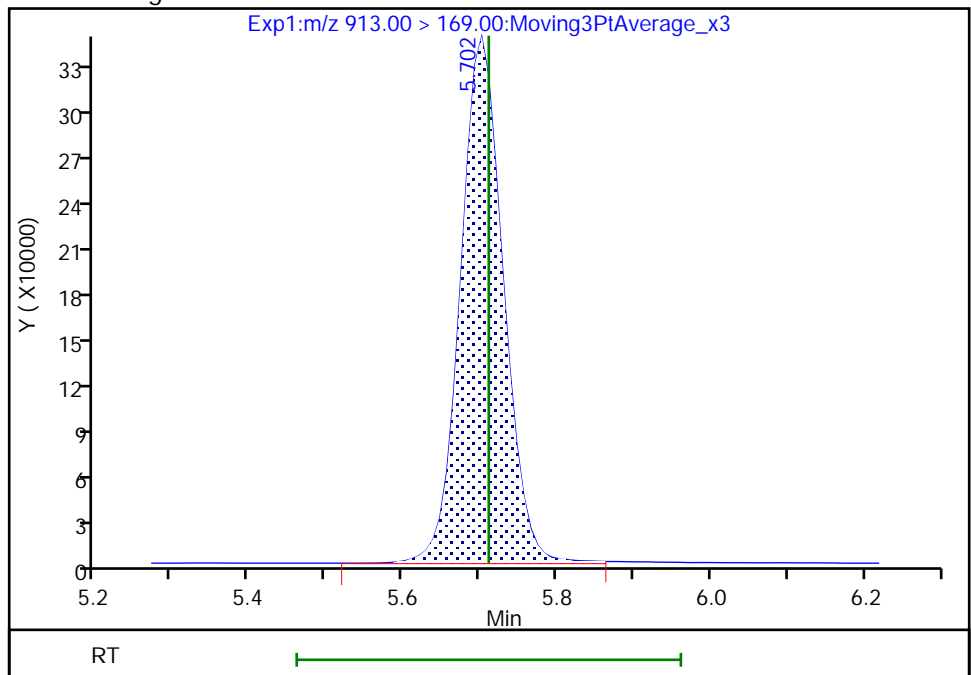
RT: 5.70
Area: 1342081
Amount: 9.697068
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 1338542
Amount: 9.660737
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 12:50:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Calibration

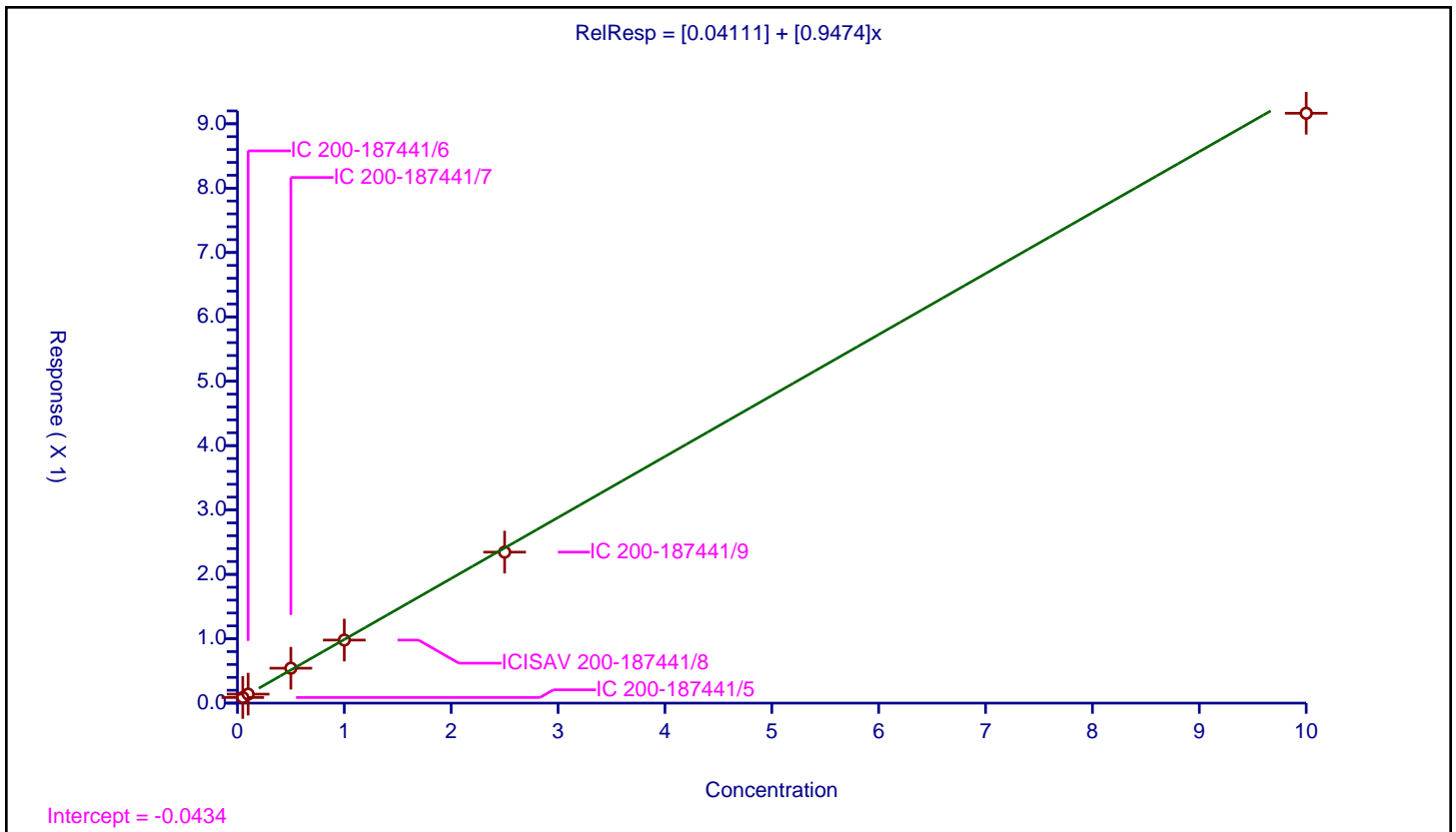
/ Perfluorobutanoic acid

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.04111
Slope:	0.9474

Error Coefficients	
Standard Error:	7570000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.08731	1.25	2034465.0	1.746196	Y
2	IC 200-187441/6	0.1	0.139673	1.25	1933662.0	1.396728	Y
3	IC 200-187441/7	0.5	0.542411	1.25	2083329.0	1.084823	Y
4	ICISAV 200-187441/8	1.0	0.97935	1.25	2145155.0	0.97935	Y
5	IC 200-187441/9	2.5	2.345683	1.25	2239855.0	0.938273	Y
6	IC 200-187441/10	10.0	9.163593	1.25	1965657.0	0.916359	Y



Calibration

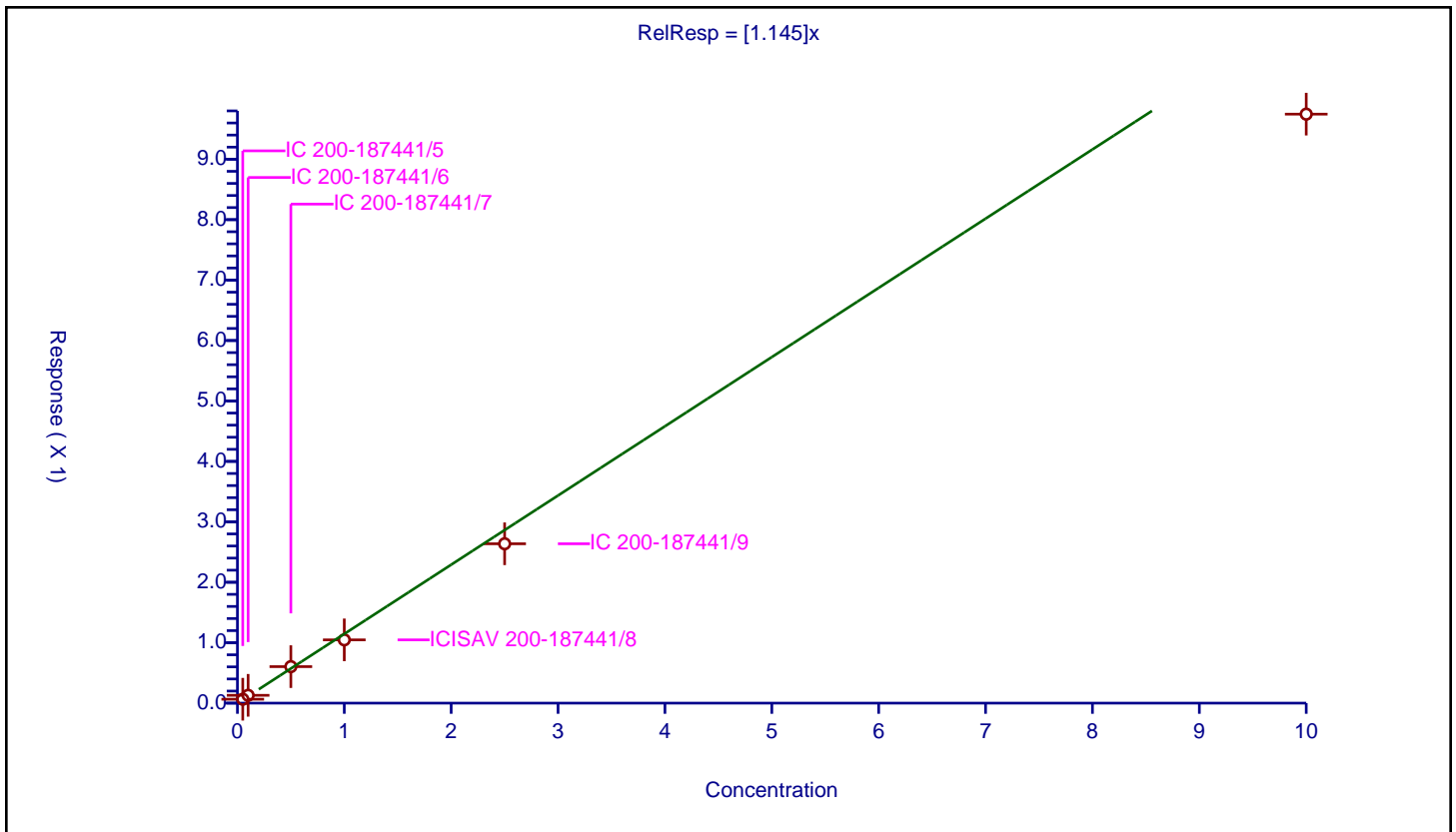
/ Perfluoropentanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.145

Error Coefficients	
Standard Error:	6010000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.064766	1.25	1540644.0	1.295319	Y
2	IC 200-187441/6	0.1	0.129163	1.25	1759059.0	1.291628	Y
3	IC 200-187441/7	0.5	0.604136	1.25	1552712.0	1.208271	Y
4	ICISAV 200-187441/8	1.0	1.04698	1.25	1830527.0	1.04698	Y
5	IC 200-187441/9	2.5	2.636921	1.25	1687291.0	1.054769	Y
6	IC 200-187441/10	10.0	9.746194	1.25	1648533.0	0.974619	Y



Calibration

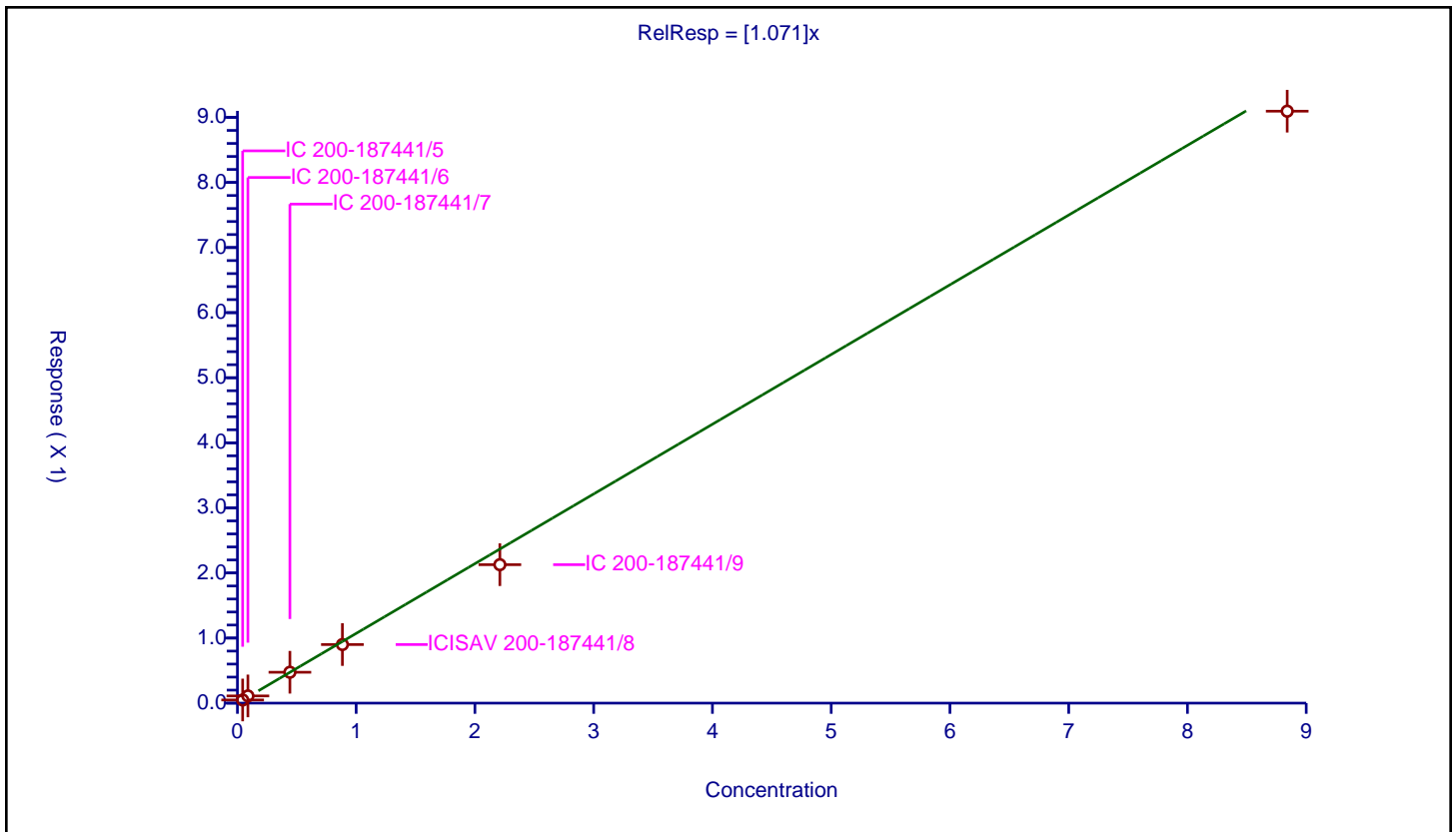
/ Perfluorobutanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.071

Error Coefficients	
Standard Error:	5750000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0442	0.048397	1.1625	1789240.0	1.09495	Y
2	IC 200-187441/6	0.0884	0.110518	1.1625	1634896.0	1.250201	Y
3	IC 200-187441/7	0.442	0.474323	1.1625	1708666.0	1.07313	Y
4	ICISAV 200-187441/8	0.884	0.899945	1.1625	1807983.0	1.018038	Y
5	IC 200-187441/9	2.21	2.127434	1.1625	1713984.0	0.96264	Y
6	IC 200-187441/10	8.84	9.095442	1.1625	1581618.0	1.028896	Y



Calibration

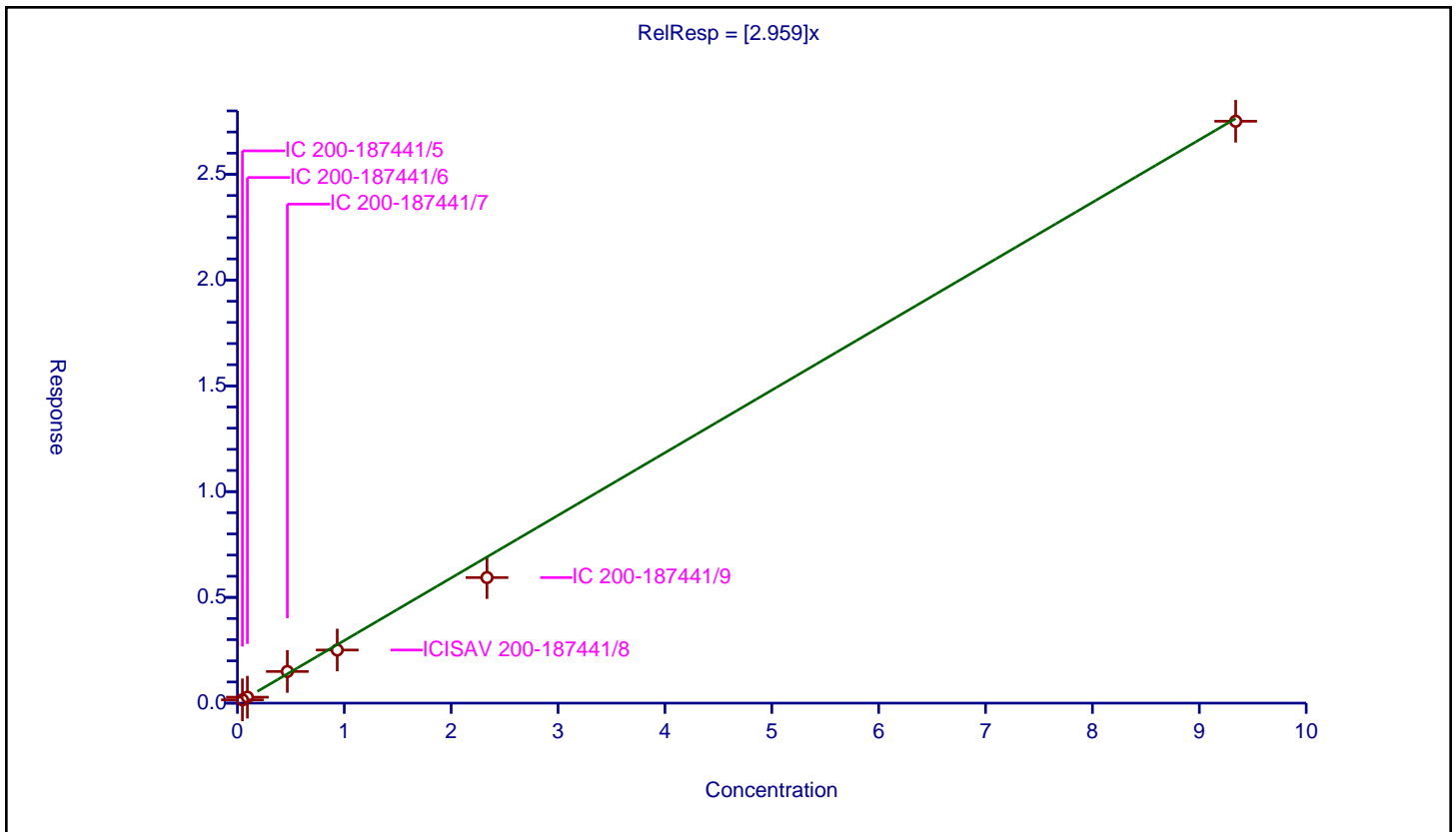
/ 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.959

Error Coefficients	
Standard Error:	1420000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0467	0.157077	1.1675	126667.0	3.363544	Y
2	IC 200-187441/6	0.0934	0.281224	1.1675	129921.0	3.010964	Y
3	IC 200-187441/7	0.467	1.496733	1.1675	132646.0	3.204997	Y
4	ICISAV 200-187441/8	0.934	2.511248	1.1675	152562.0	2.688702	Y
5	IC 200-187441/9	2.335	5.936101	1.1675	162324.0	2.542227	Y
6	IC 200-187441/10	9.34	27.510003	1.1675	128831.0	2.945396	Y



Calibration

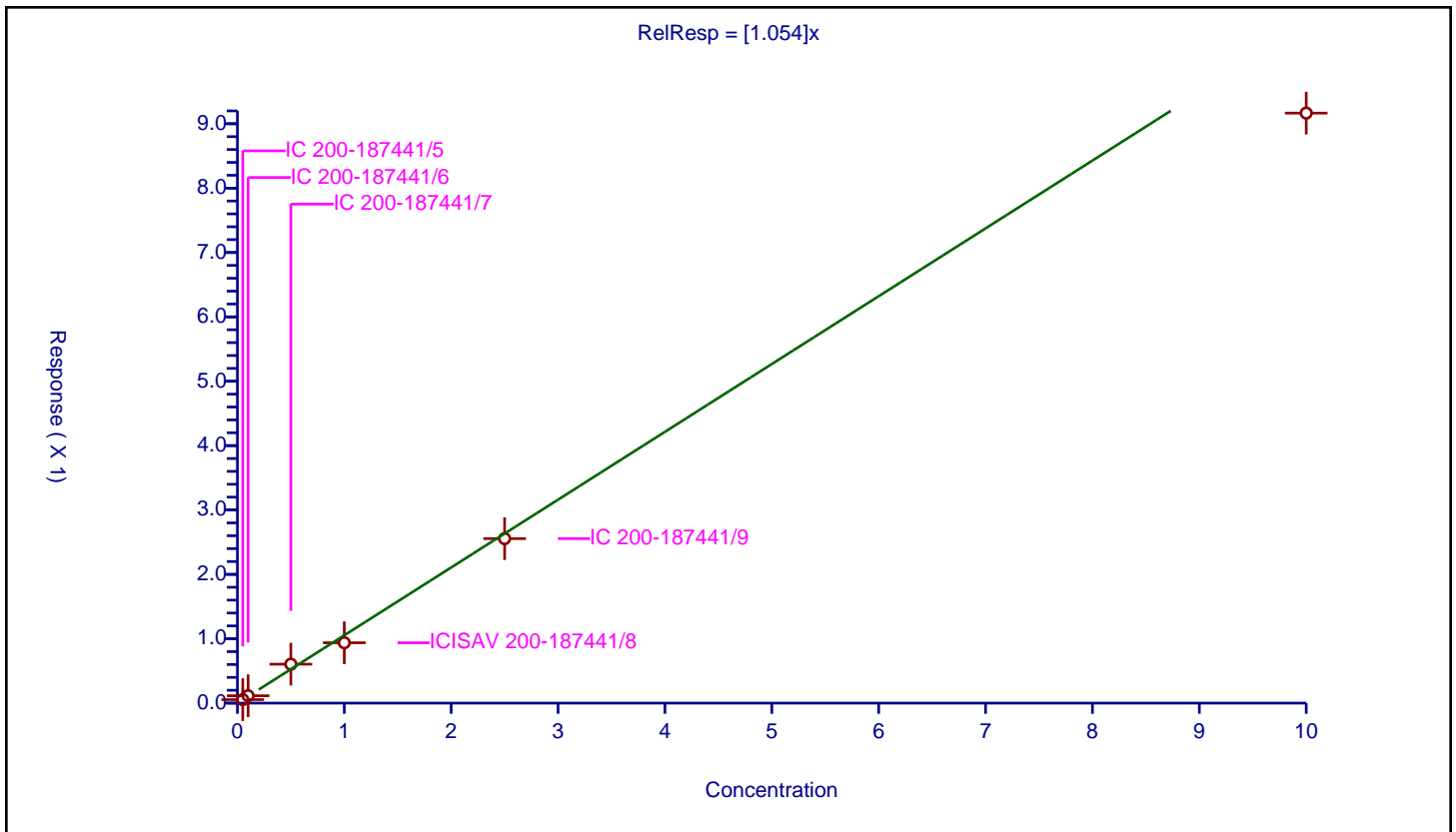
/ Perfluorohexanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.054

Error Coefficients	
Standard Error:	5550000
Relative Standard Error:	11.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.054573	1.25	1821594.0	1.091462	Y
2	IC 200-187441/6	0.1	0.114298	1.25	1676752.0	1.142976	Y
3	IC 200-187441/7	0.5	0.605083	1.25	1669242.0	1.210166	Y
4	ICISAV 200-187441/8	1.0	0.937877	1.25	1910330.0	0.937877	Y
5	IC 200-187441/9	2.5	2.555416	1.25	1743329.0	1.022166	Y
6	IC 200-187441/10	10.0	9.165779	1.25	1605635.0	0.916578	Y



Calibration

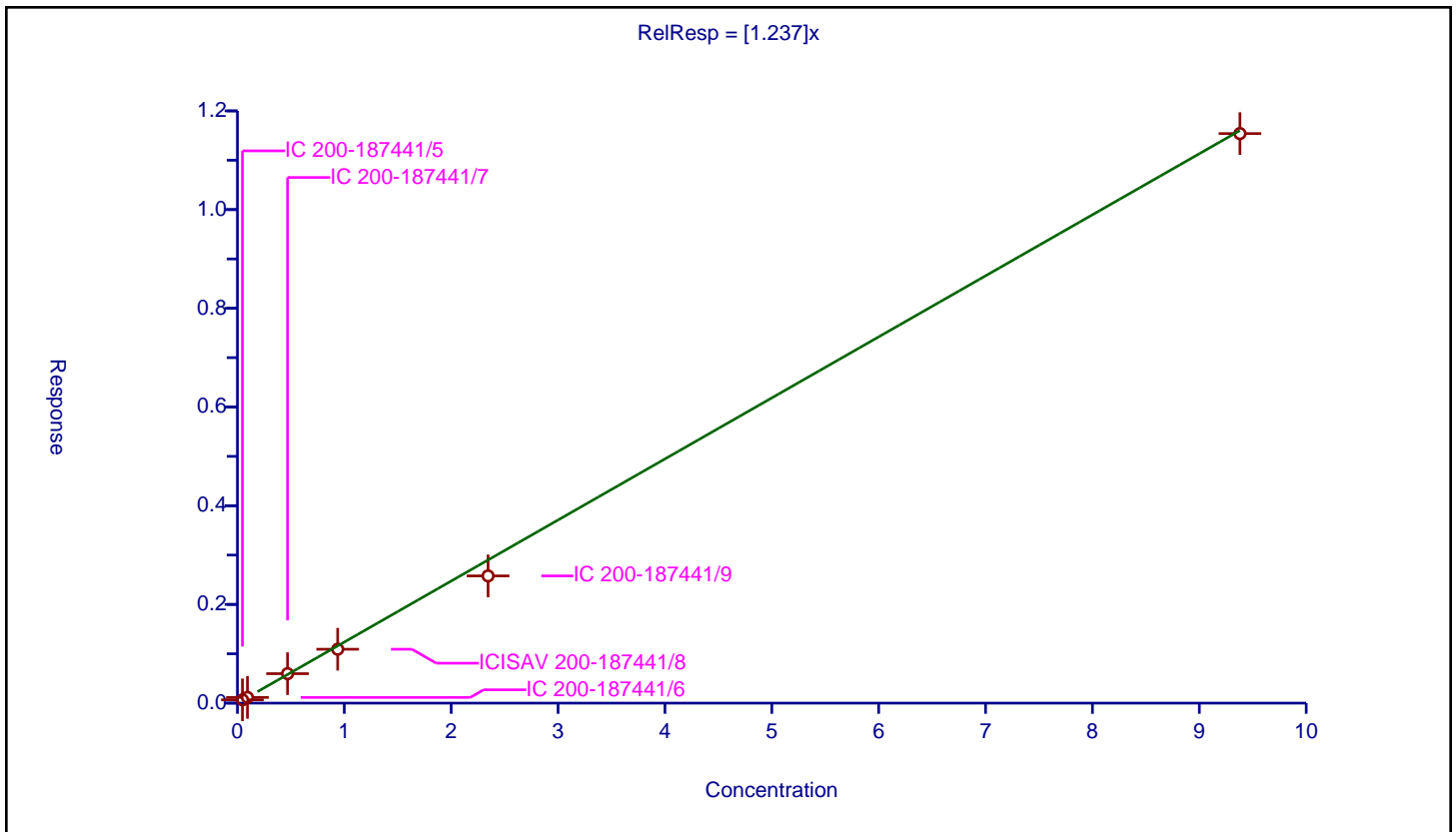
/ Perfluoropentanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.237

Error Coefficients	
Standard Error:	5000000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0469	0.066612	1.1825	1181711.0	1.420308	Y
2	IC 200-187441/6	0.0938	0.115729	1.1825	1332857.0	1.233783	Y
3	IC 200-187441/7	0.469	0.597375	1.1825	1224605.0	1.273722	Y
4	ICISAV 200-187441/8	0.938	1.091972	1.1825	1307522.0	1.164149	Y
5	IC 200-187441/9	2.345	2.577594	1.1825	1445292.0	1.099187	Y
6	IC 200-187441/10	9.38	11.540289	1.1825	1090521.0	1.230308	Y



Calibration

/ Perfluoro(2-propoxypropanoic) acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

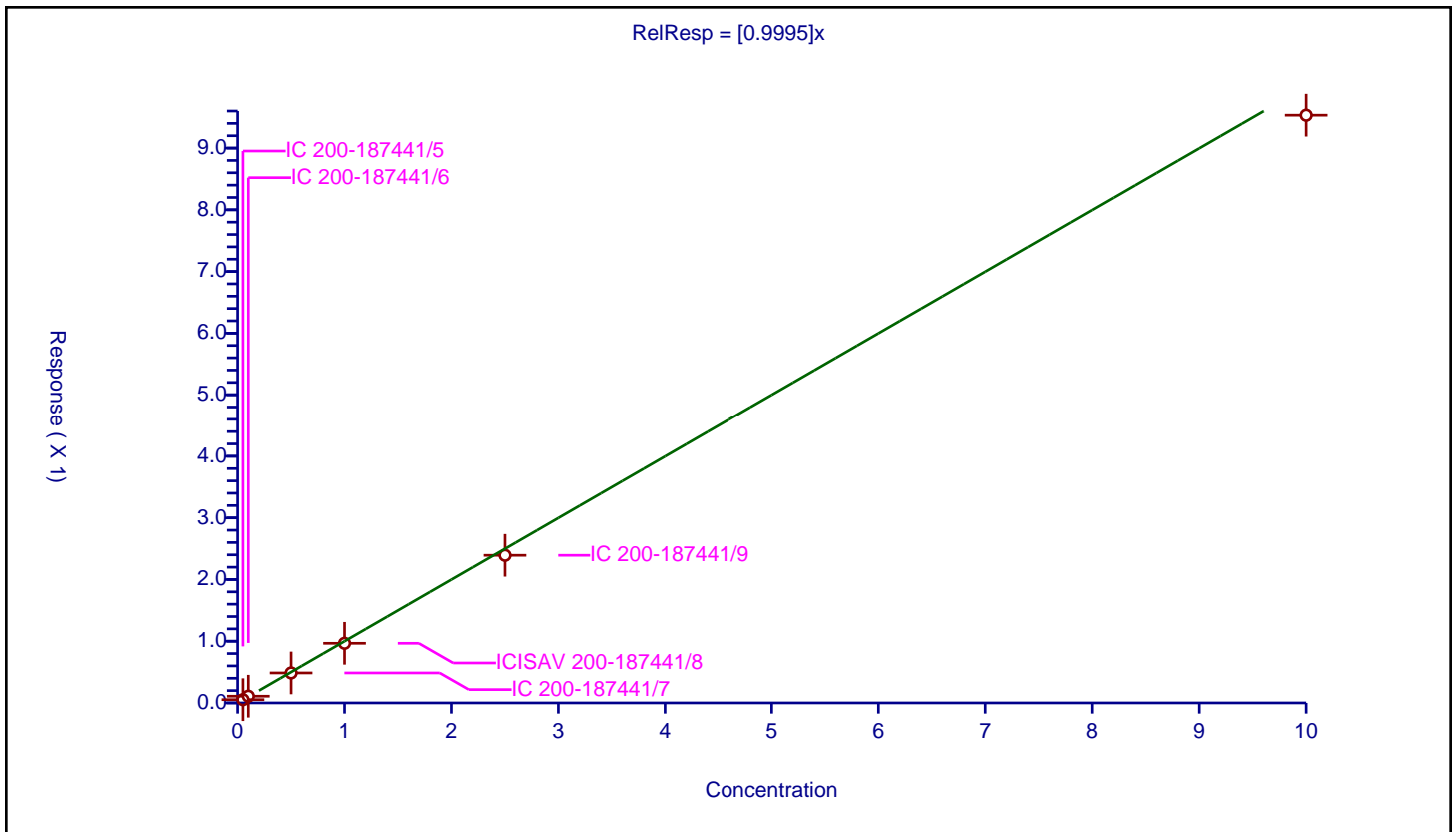
Curve Coefficients

Intercept: 0
 Slope: 0.9995

Error Coefficients

Standard Error: 1100000
 Relative Standard Error: 5.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.052805	1.25	293722.0	1.056101	Y
2	IC 200-187441/6	0.1	0.109207	1.25	264830.0	1.092068	Y
3	IC 200-187441/7	0.5	0.486079	1.25	304873.0	0.972159	Y
4	ICISAV 200-187441/8	1.0	0.96647	1.25	315350.0	0.96647	Y
5	IC 200-187441/9	2.5	2.392972	1.25	312102.0	0.957189	Y
6	IC 200-187441/10	10.0	9.532435	1.25	311994.0	0.953243	Y



Calibration

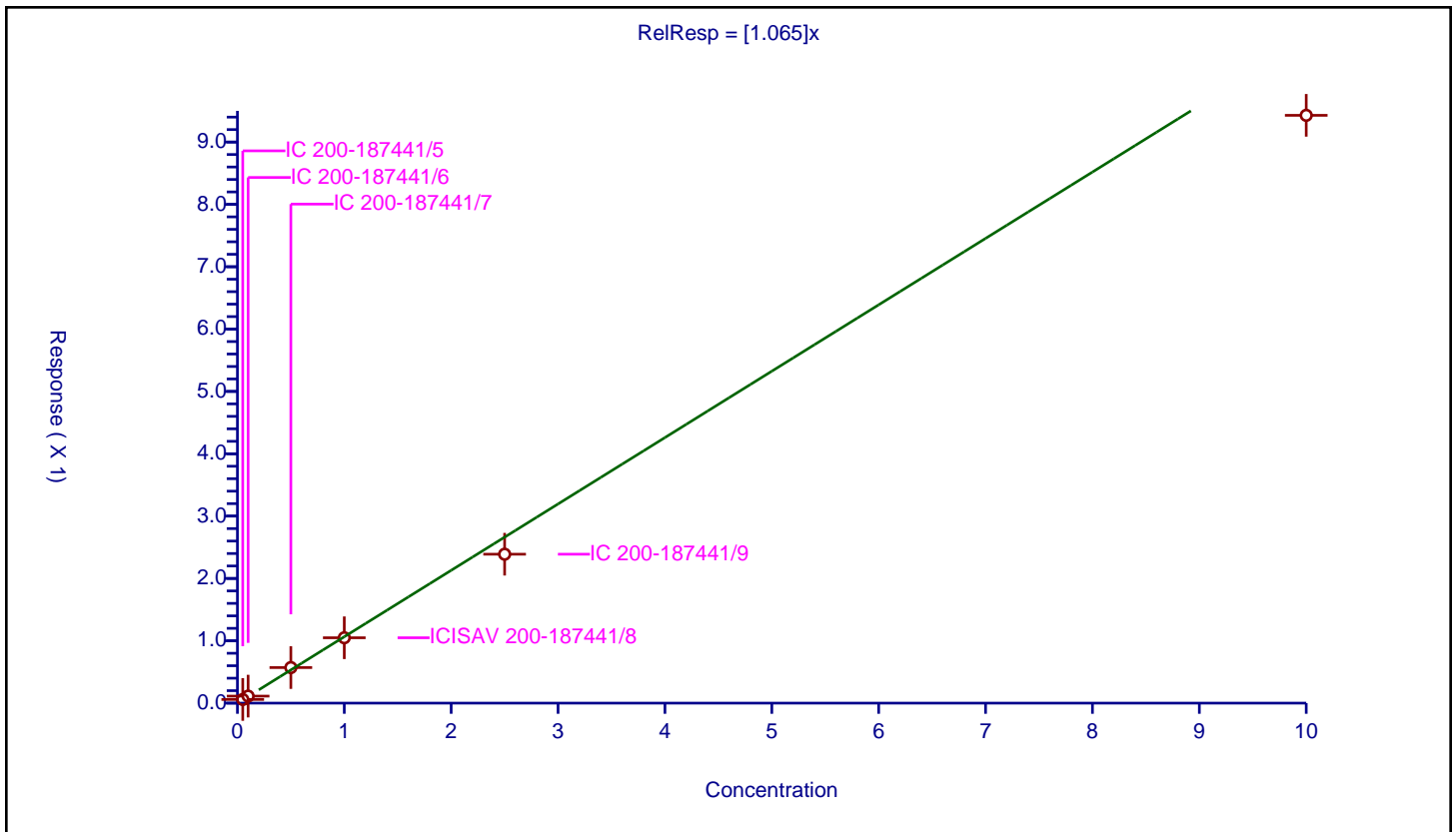
/ Perfluoroheptanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.065

Error Coefficients	
Standard Error:	5760000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.058718	1.25	1662871.0	1.174354	Y
2	IC 200-187441/6	0.1	0.11272	1.25	1854236.0	1.127203	Y
3	IC 200-187441/7	0.5	0.570416	1.25	1725691.0	1.140831	Y
4	ICISAV 200-187441/8	1.0	1.048618	1.25	1788525.0	1.048618	Y
5	IC 200-187441/9	2.5	2.389003	1.25	1749350.0	0.955601	Y
6	IC 200-187441/10	10.0	9.428481	1.25	1632836.0	0.942848	Y



Calibration

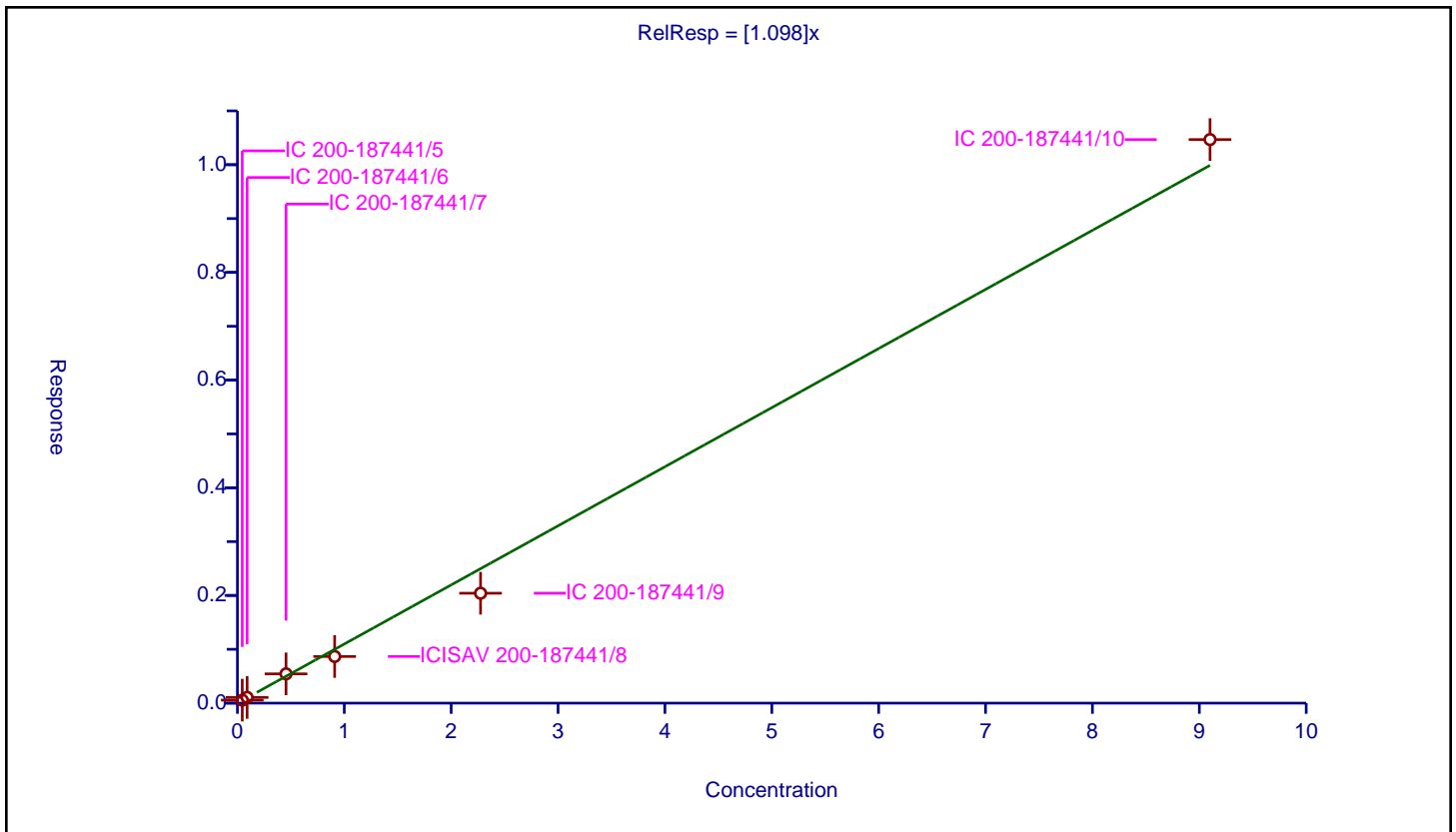
/ Perfluorohexanesulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.098

Error Coefficients	
Standard Error:	4490000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0455	0.055639	1.1825	1181711.0	1.222838	Y
2	IC 200-187441/6	0.091	0.106271	1.1825	1332857.0	1.167818	Y
3	IC 200-187441/7	0.455	0.543971	1.1825	1224605.0	1.195541	Y
4	ICISAV 200-187441/8	0.91	0.866583	1.1825	1307522.0	0.952289	Y
5	IC 200-187441/9	2.275	2.041258	1.1825	1445292.0	0.897256	Y
6	IC 200-187441/10	9.1	10.467452	1.1825	1090521.0	1.150269	Y



Calibration

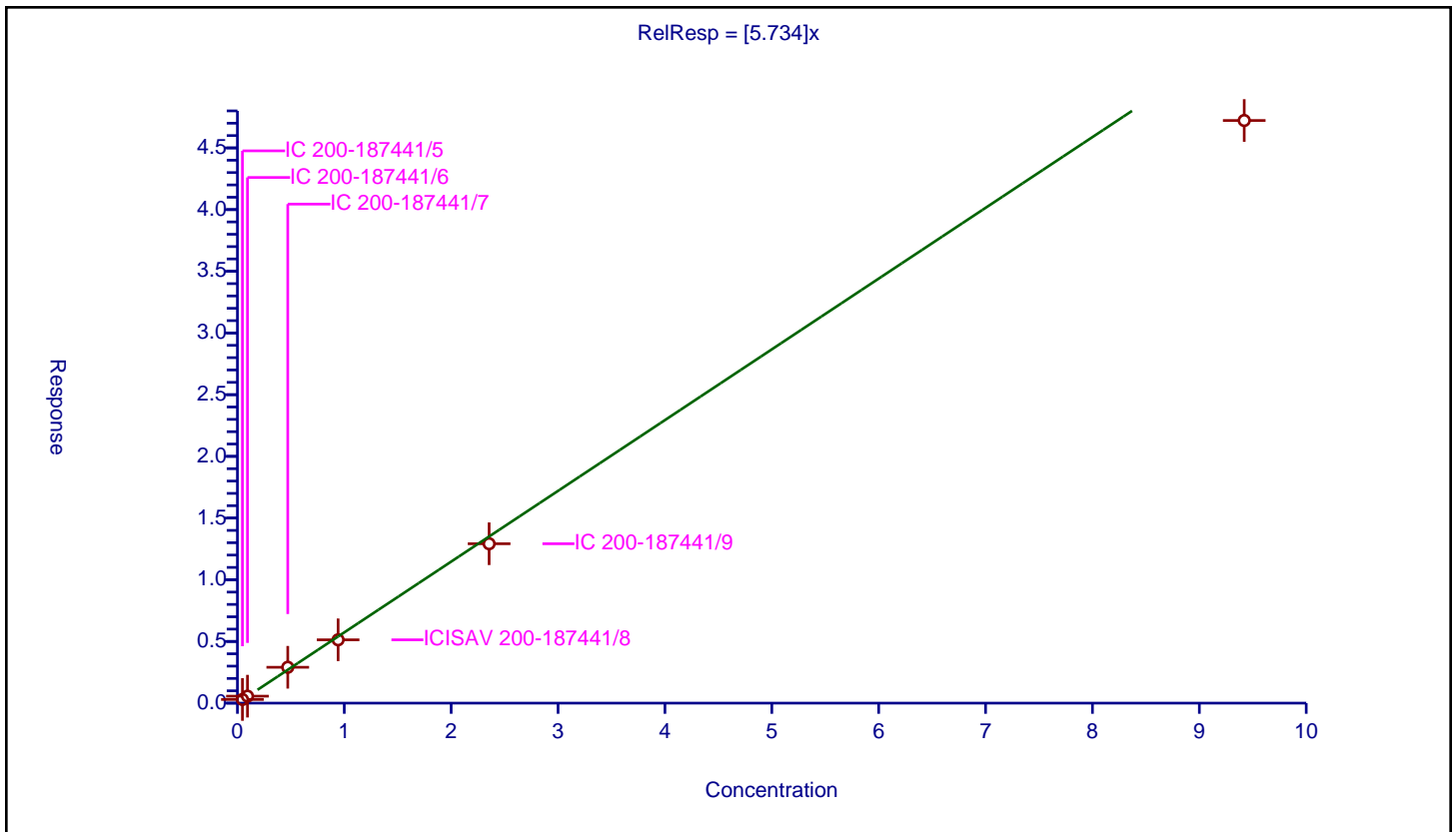
/ DONA

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.734

Error Coefficients	
Standard Error:	13500000
Relative Standard Error:	8.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0471	0.296754	1.195	767609.0	6.300506	Y
2	IC 200-187441/6	0.0942	0.564218	1.195	806762.0	5.989578	Y
3	IC 200-187441/7	0.471	2.906529	1.195	732775.0	6.170974	Y
4	ICISAV 200-187441/8	0.942	5.131669	1.195	813855.0	5.447631	Y
5	IC 200-187441/9	2.355	12.917454	1.195	806118.0	5.485118	Y
6	IC 200-187441/10	9.42	47.220069	1.195	725859.0	5.012746	Y



Calibration

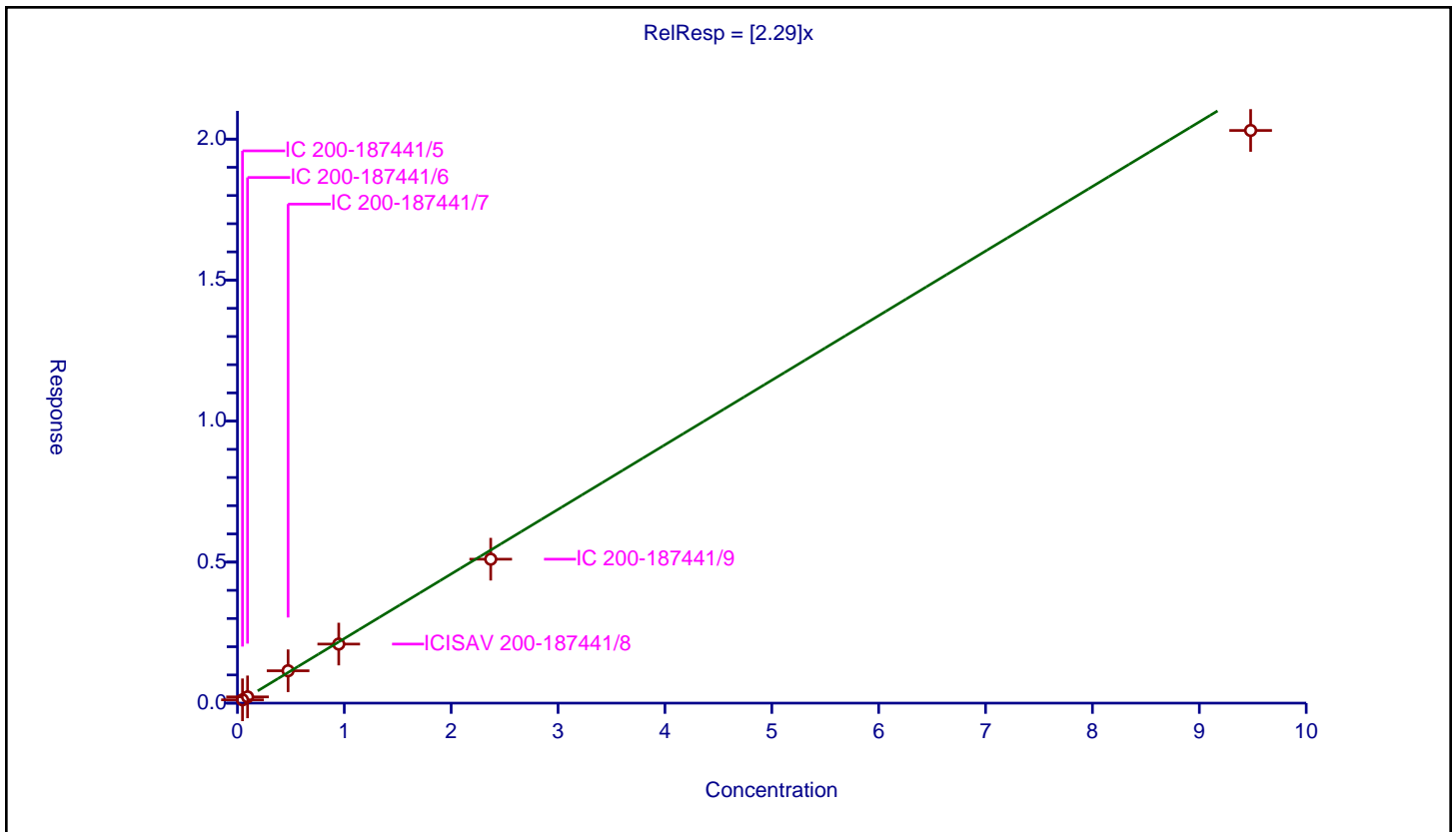
/ 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.29

Error Coefficients	
Standard Error:	1420000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0474	0.117411	1.1875	207925.0	2.47702	Y
2	IC 200-187441/6	0.0948	0.221479	1.1875	191525.0	2.336272	Y
3	IC 200-187441/7	0.474	1.14787	1.1875	213768.0	2.421667	Y
4	ICISAV 200-187441/8	0.948	2.094403	1.1875	208801.0	2.209286	Y
5	IC 200-187441/9	2.37	5.103579	1.1875	201091.0	2.153409	Y
6	IC 200-187441/10	9.48	20.305457	1.1875	176307.0	2.141926	Y



Calibration

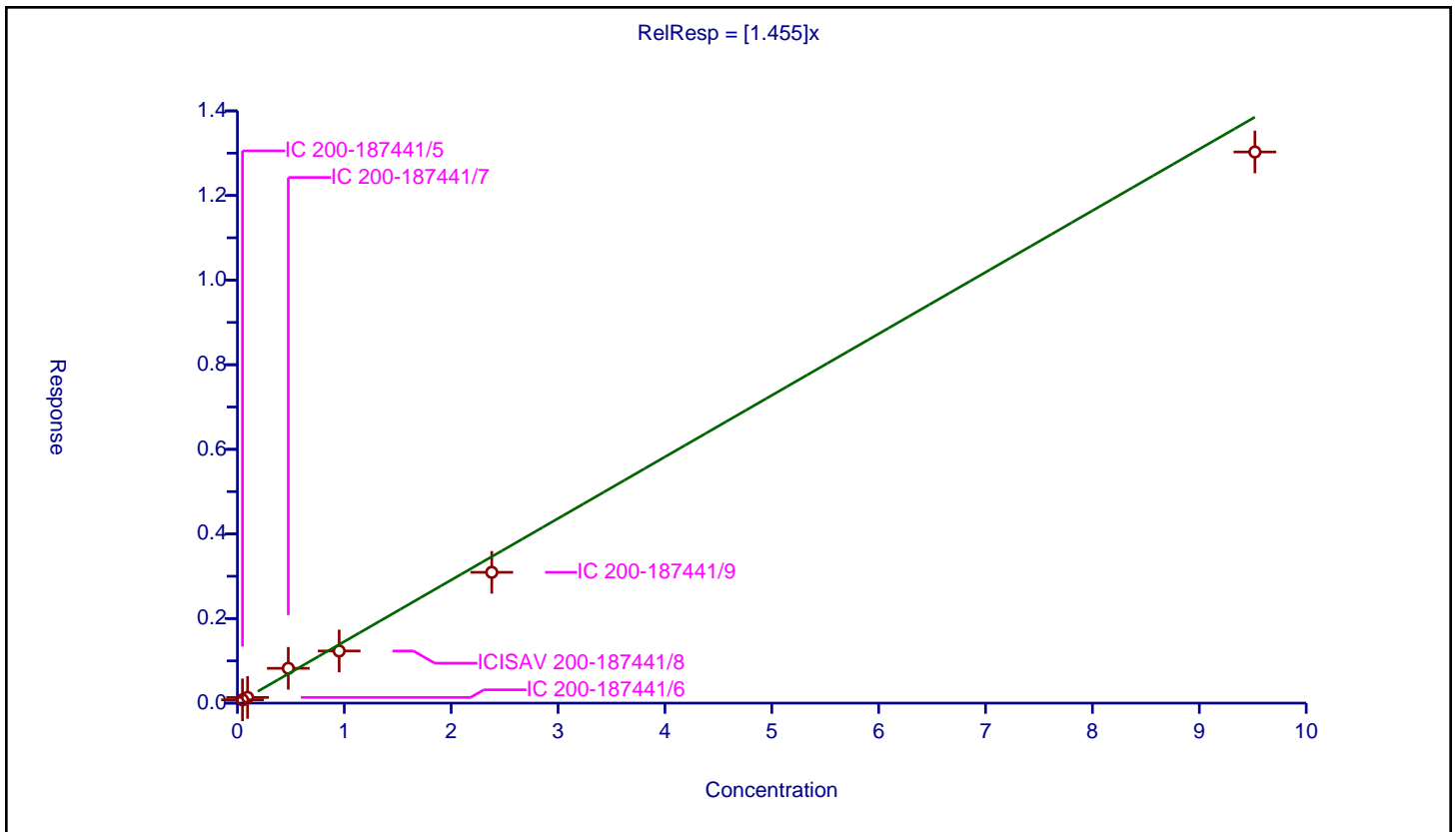
/ Perfluoroheptanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.455

Error Coefficients	
Standard Error:	3690000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0476	0.077475	1.195	767609.0	1.627622	Y
2	IC 200-187441/6	0.0952	0.134236	1.195	806762.0	1.410047	Y
3	IC 200-187441/7	0.476	0.823469	1.195	732775.0	1.729977	Y
4	ICISAV 200-187441/8	0.952	1.232993	1.195	813855.0	1.29516	Y
5	IC 200-187441/9	2.38	3.092305	1.195	806118.0	1.299288	Y
6	IC 200-187441/10	9.52	13.028832	1.195	725859.0	1.368575	Y



Calibration

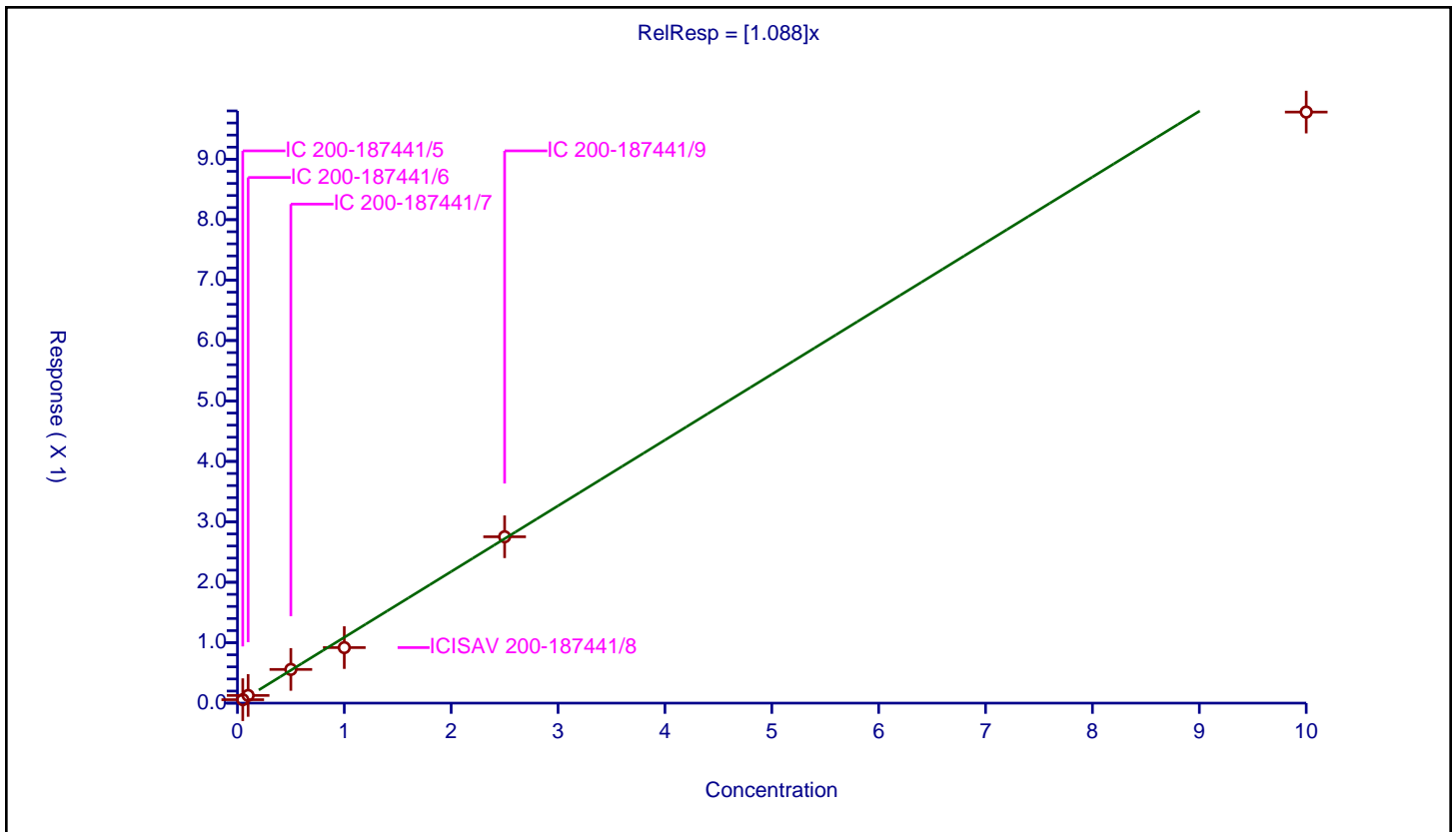
/ Perfluorooctanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.088

Error Coefficients	
Standard Error:	6110000
Relative Standard Error:	11.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.057149	1.25	1862193.0	1.14298	Y
2	IC 200-187441/6	0.1	0.127344	1.25	1796317.0	1.273439	Y
3	IC 200-187441/7	0.5	0.557597	1.25	1845411.0	1.115195	Y
4	ICISAV 200-187441/8	1.0	0.918892	1.25	2017935.0	0.918892	Y
5	IC 200-187441/9	2.5	2.752874	1.25	1893164.0	1.10115	Y
6	IC 200-187441/10	10.0	9.780623	1.25	1647382.0	0.978062	Y



Calibration

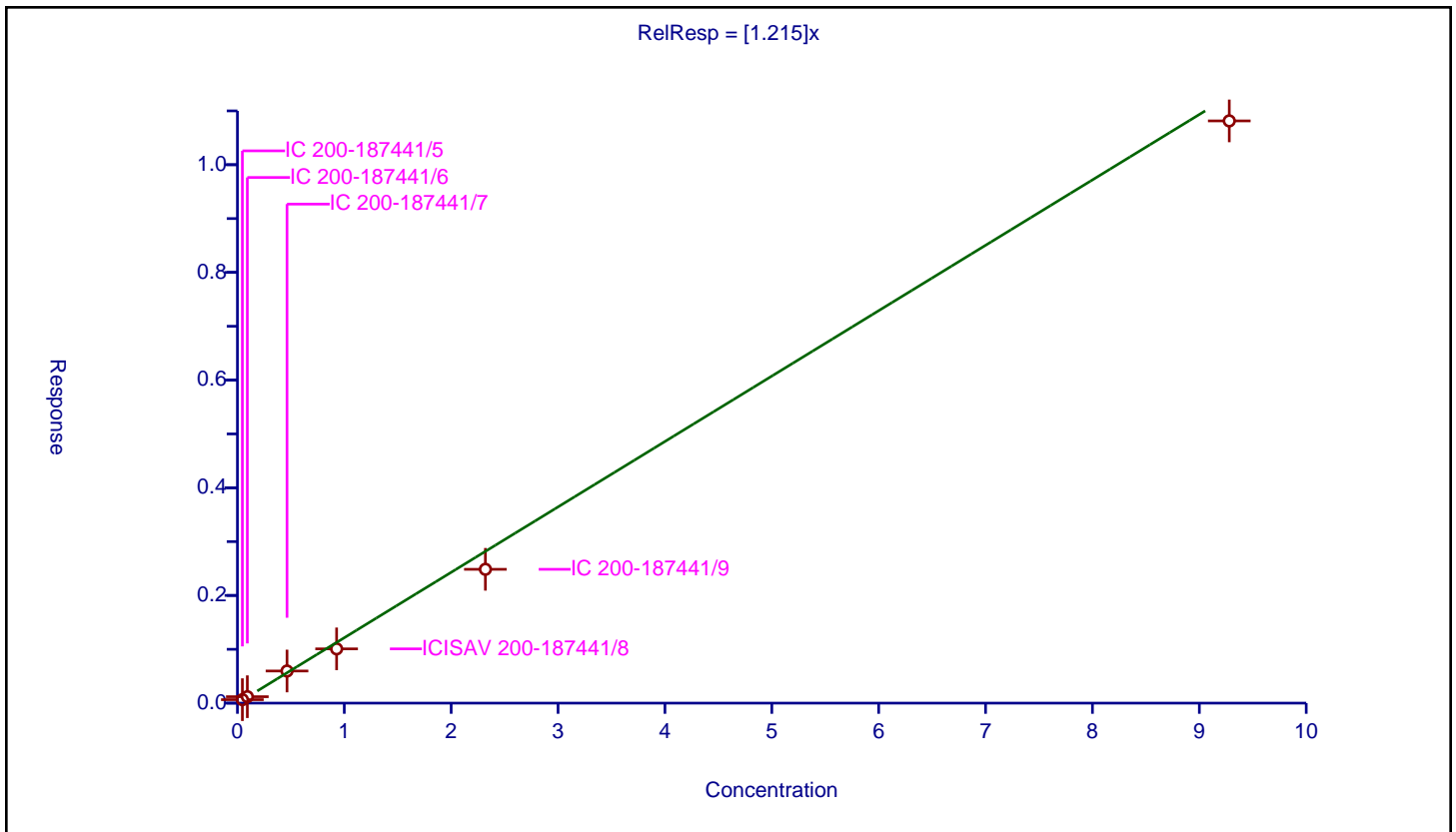
/ Perfluorooctanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.215

Error Coefficients	
Standard Error:	3050000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0464	0.064633	1.195	767609.0	1.392951	Y
2	IC 200-187441/6	0.0928	0.119433	1.195	806762.0	1.286994	Y
3	IC 200-187441/7	0.464	0.596842	1.195	732775.0	1.286297	Y
4	ICISAV 200-187441/8	0.928	1.007911	1.195	813855.0	1.086111	Y
5	IC 200-187441/9	2.32	2.485325	1.195	806118.0	1.071261	Y
6	IC 200-187441/10	9.28	10.814057	1.195	725859.0	1.165308	Y



Calibration

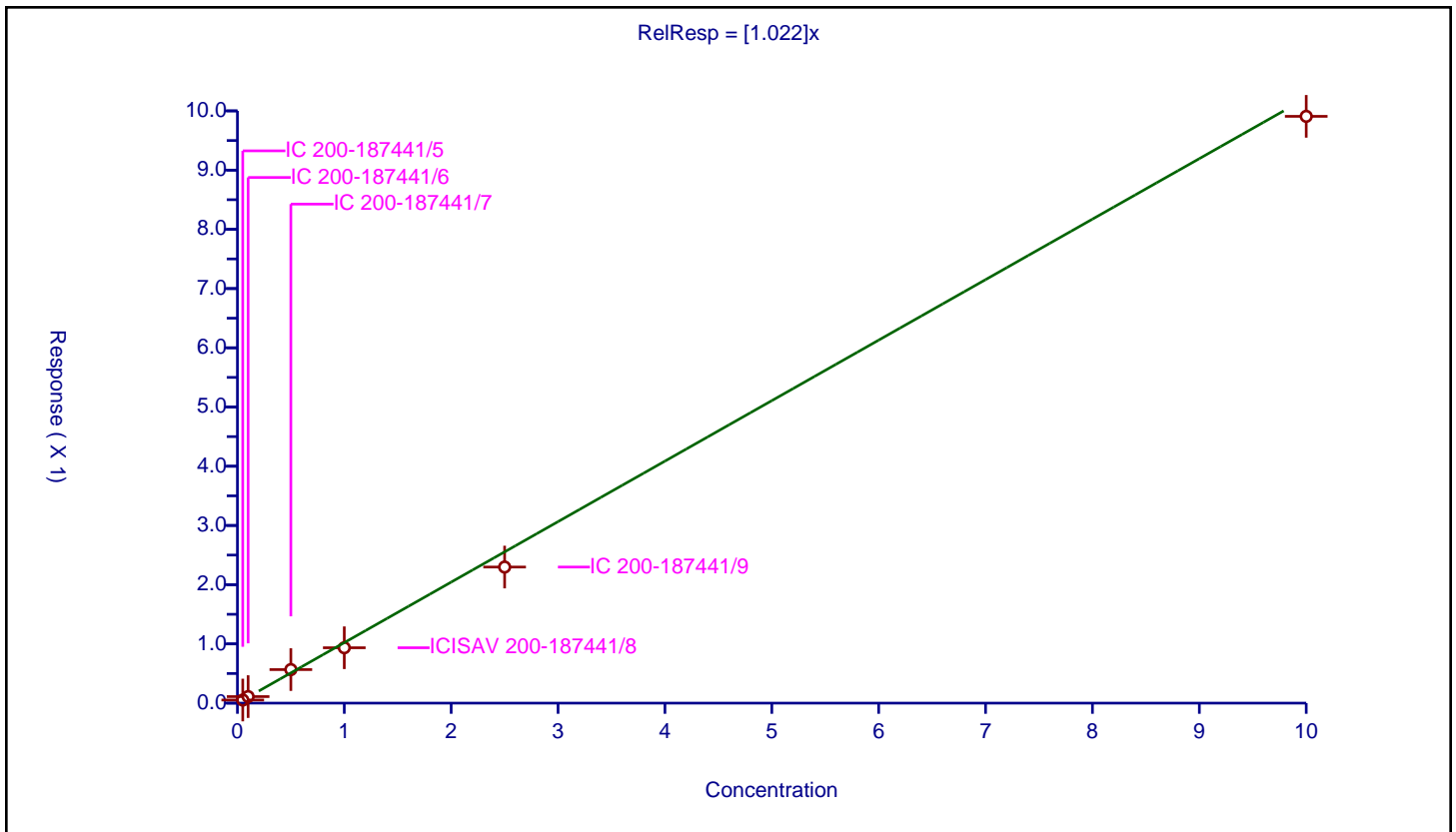
/ Perfluorononanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.022

Error Coefficients	
Standard Error:	6350000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.052295	1.25	1829843.0	1.045909	Y
2	IC 200-187441/6	0.1	0.110577	1.25	1717986.0	1.105772	Y
3	IC 200-187441/7	0.5	0.56624	1.25	1747438.0	1.132481	Y
4	ICISAV 200-187441/8	1.0	0.935188	1.25	1908294.0	0.935188	Y
5	IC 200-187441/9	2.5	2.297631	1.25	1830847.0	0.919052	Y
6	IC 200-187441/10	10.0	9.907786	1.25	1728974.0	0.990779	Y



Calibration

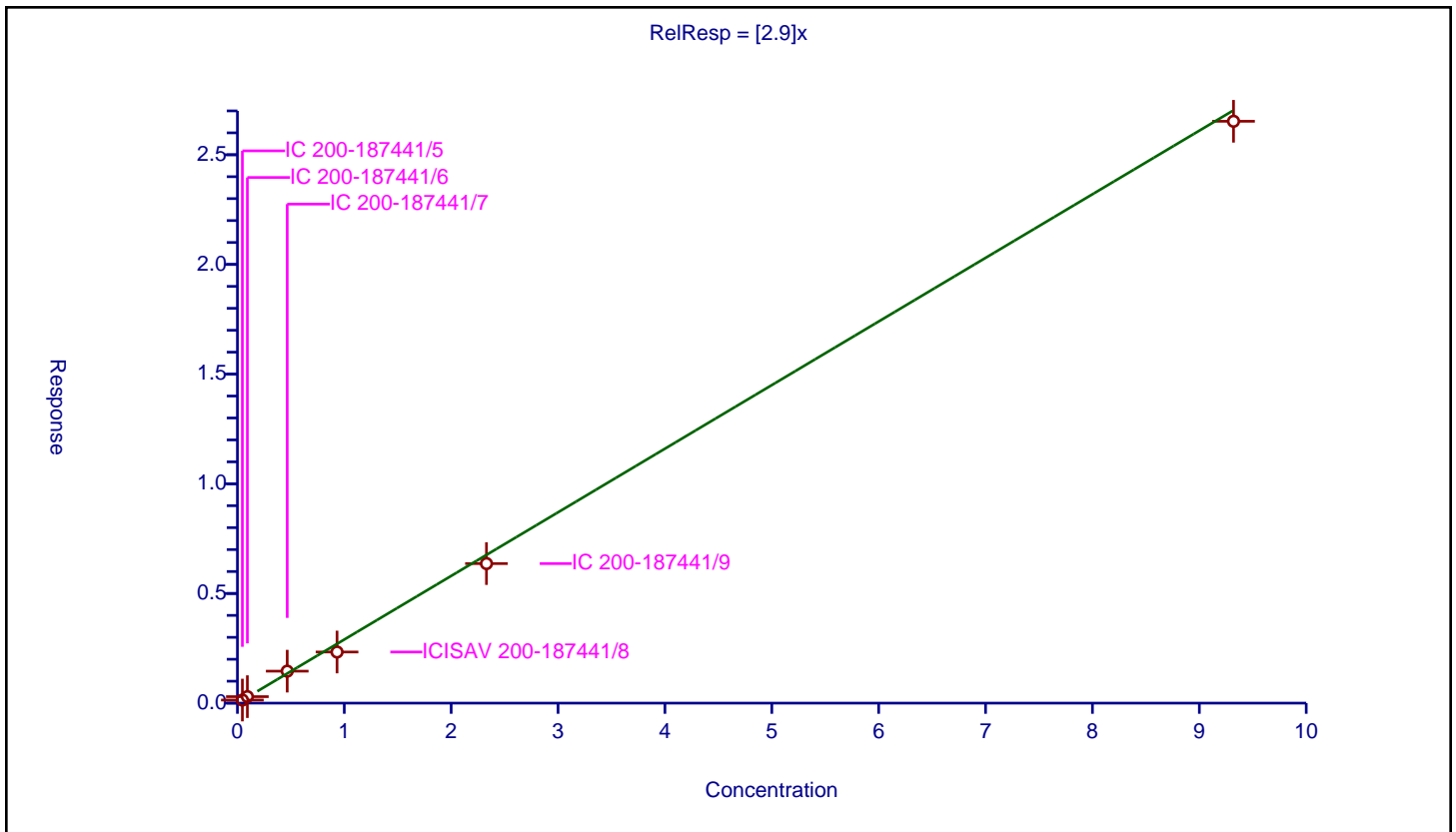
/ 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.9

Error Coefficients	
Standard Error:	7500000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0466	0.140647	1.195	767609.0	3.018186	Y
2	IC 200-187441/6	0.0932	0.295876	1.195	806762.0	3.174632	Y
3	IC 200-187441/7	0.466	1.45826	1.195	732775.0	3.129312	Y
4	ICISAV 200-187441/8	0.932	2.330454	1.195	813855.0	2.500487	Y
5	IC 200-187441/9	2.33	6.362144	1.195	806118.0	2.730534	Y
6	IC 200-187441/10	9.32	26.526539	1.195	725859.0	2.846195	Y



Calibration

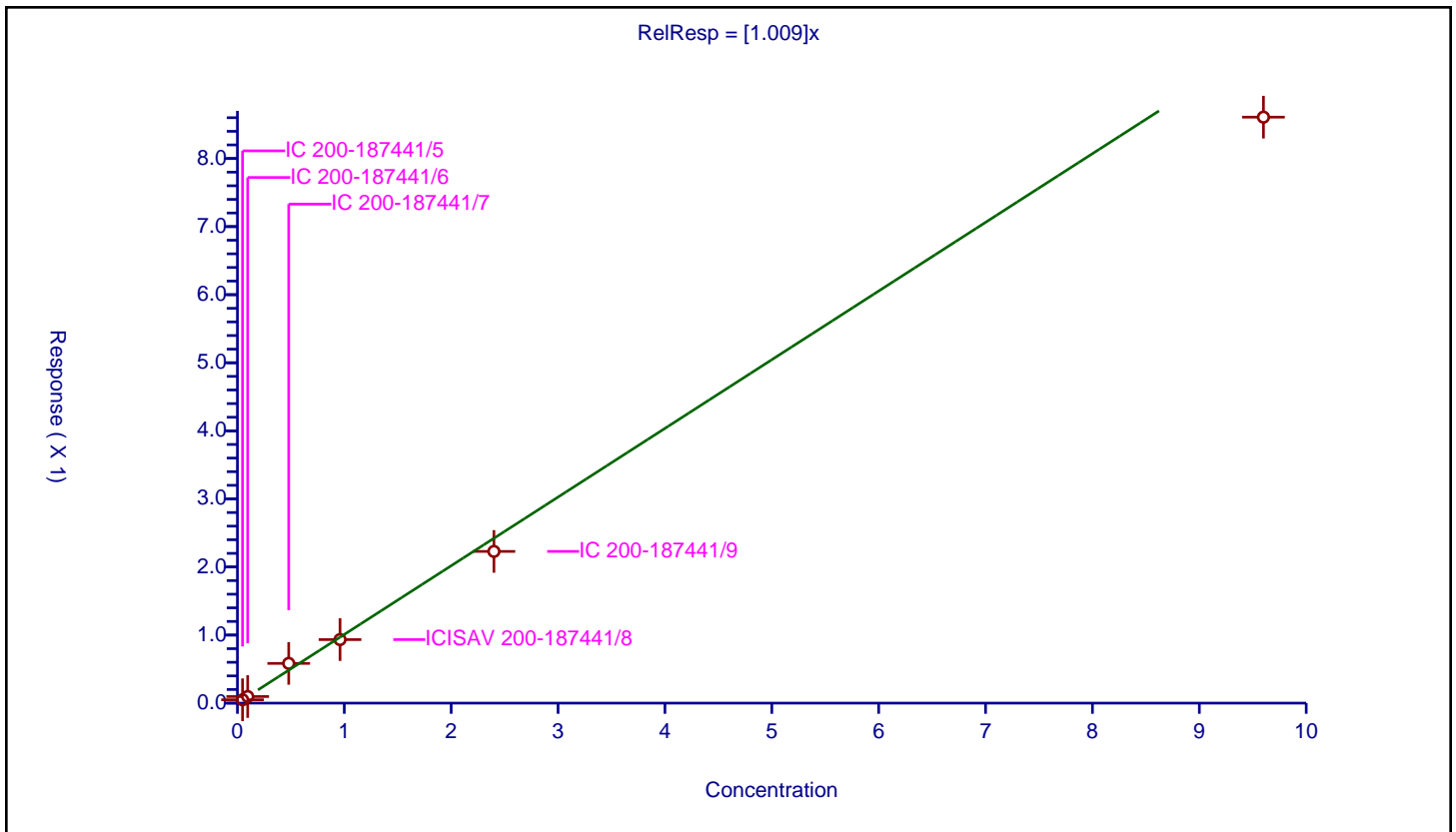
/ Perfluorononanesulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.009

Error Coefficients	
Standard Error:	2450000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.048	0.049434	1.195	767609.0	1.029876	Y
2	IC 200-187441/6	0.096	0.097004	1.195	806762.0	1.010461	Y
3	IC 200-187441/7	0.48	0.583597	1.195	732775.0	1.215827	Y
4	ICISAV 200-187441/8	0.96	0.933447	1.195	813855.0	0.97234	Y
5	IC 200-187441/9	2.4	2.228647	1.195	806118.0	0.928603	Y
6	IC 200-187441/10	9.6	8.607863	1.195	725859.0	0.896652	Y



Calibration

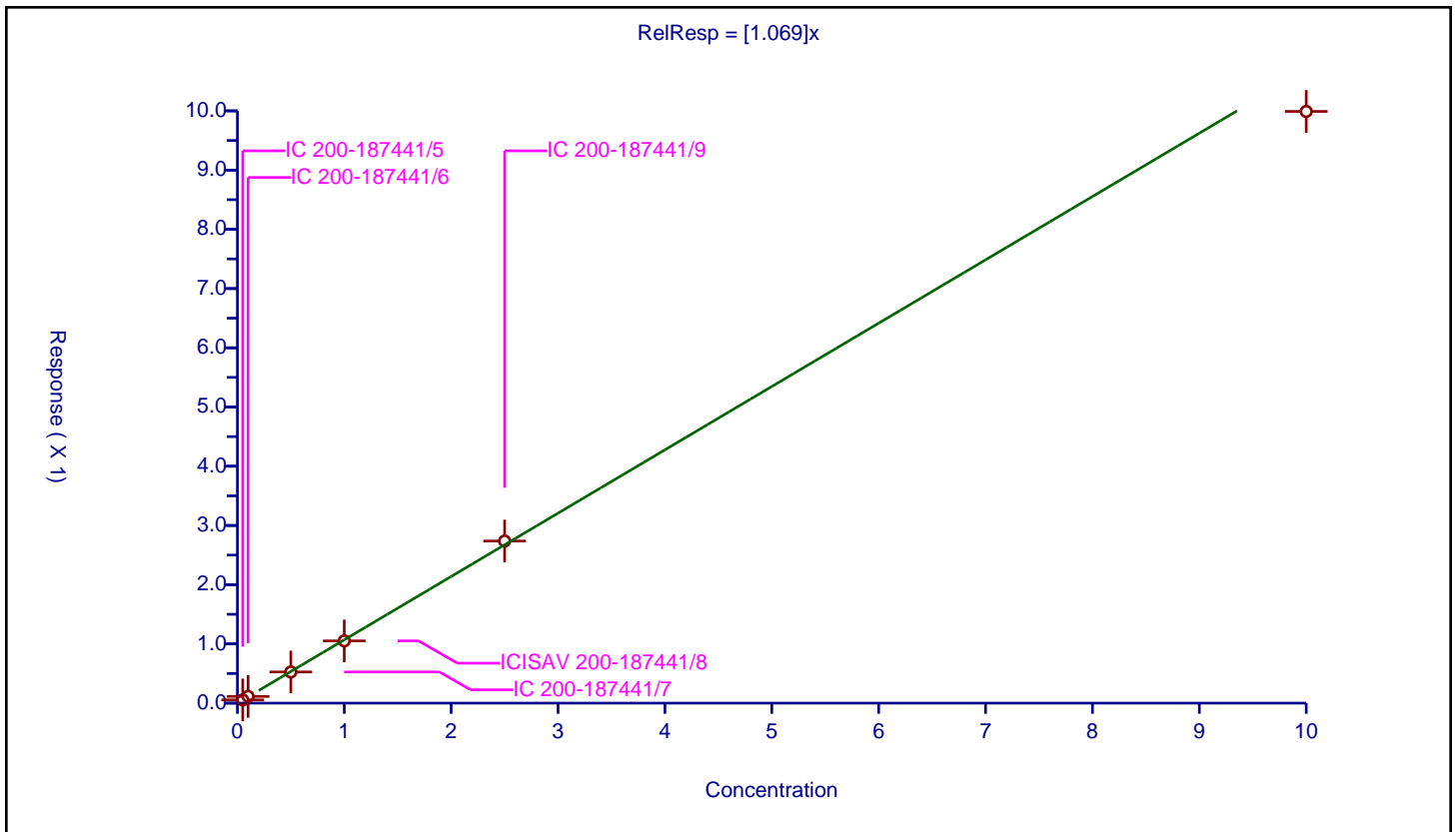
/ Perfluorodecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.069

Error Coefficients	
Standard Error:	6380000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.0541	1.25	1876926.0	1.082009	Y
2	IC 200-187441/6	0.1	0.113626	1.25	1832892.0	1.136264	Y
3	IC 200-187441/7	0.5	0.526269	1.25	1930492.0	1.052539	Y
4	ICISAV 200-187441/8	1.0	1.05077	1.25	1794868.0	1.05077	Y
5	IC 200-187441/9	2.5	2.737069	1.25	1896398.0	1.094827	Y
6	IC 200-187441/10	10.0	9.990344	1.25	1693037.0	0.999034	Y



Calibration

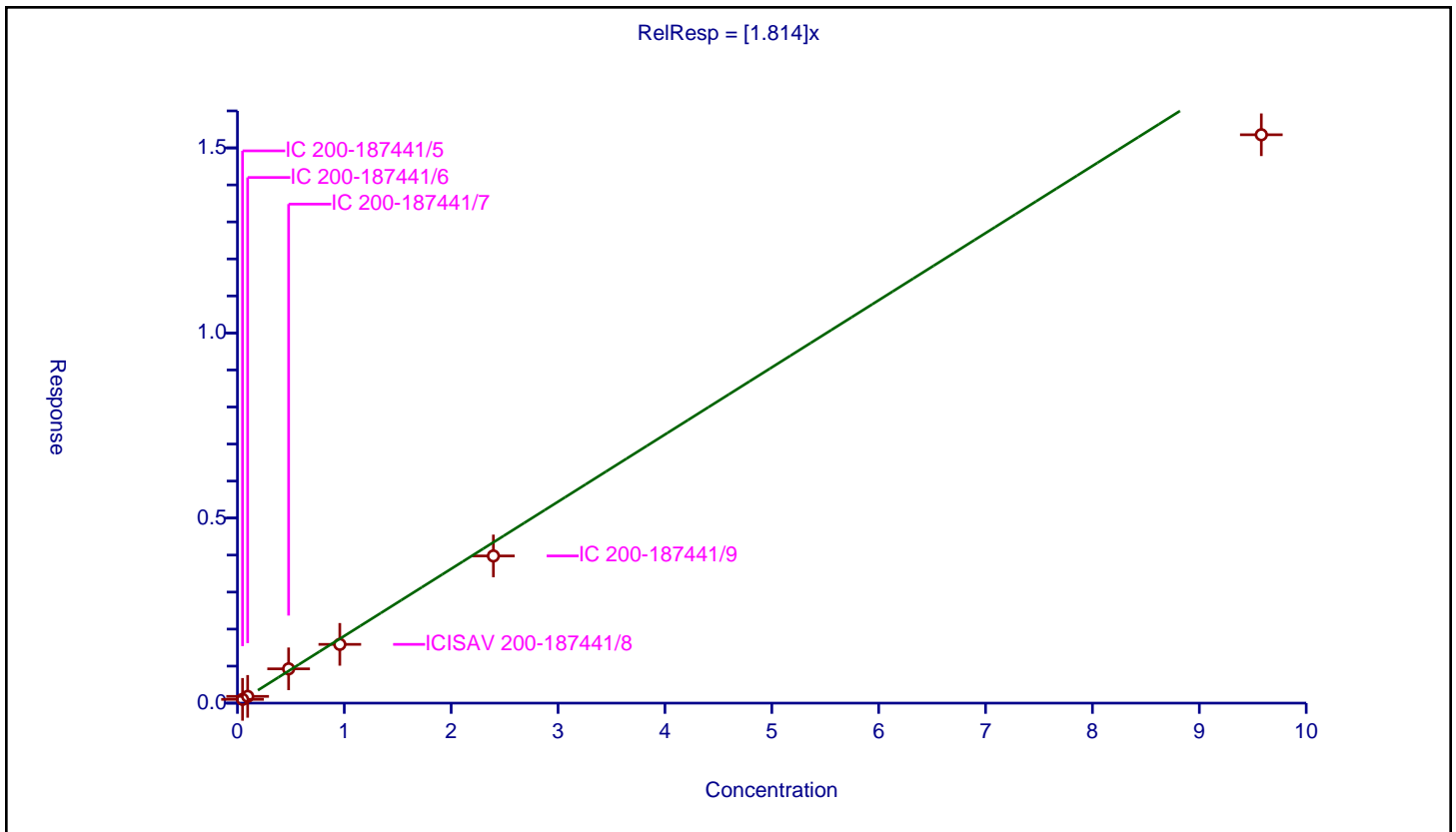
/ 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.814

Error Coefficients	
Standard Error:	1480000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0479	0.101853	1.1975	252732.0	2.126363	Y
2	IC 200-187441/6	0.0958	0.182337	1.1975	260139.0	1.903309	Y
3	IC 200-187441/7	0.479	0.926628	1.1975	257487.0	1.934505	Y
4	ICISAV 200-187441/8	0.958	1.587562	1.1975	244119.0	1.657163	Y
5	IC 200-187441/9	2.395	3.976397	1.1975	246611.0	1.660291	Y
6	IC 200-187441/10	9.58	15.355044	1.1975	249058.0	1.602823	Y



Calibration

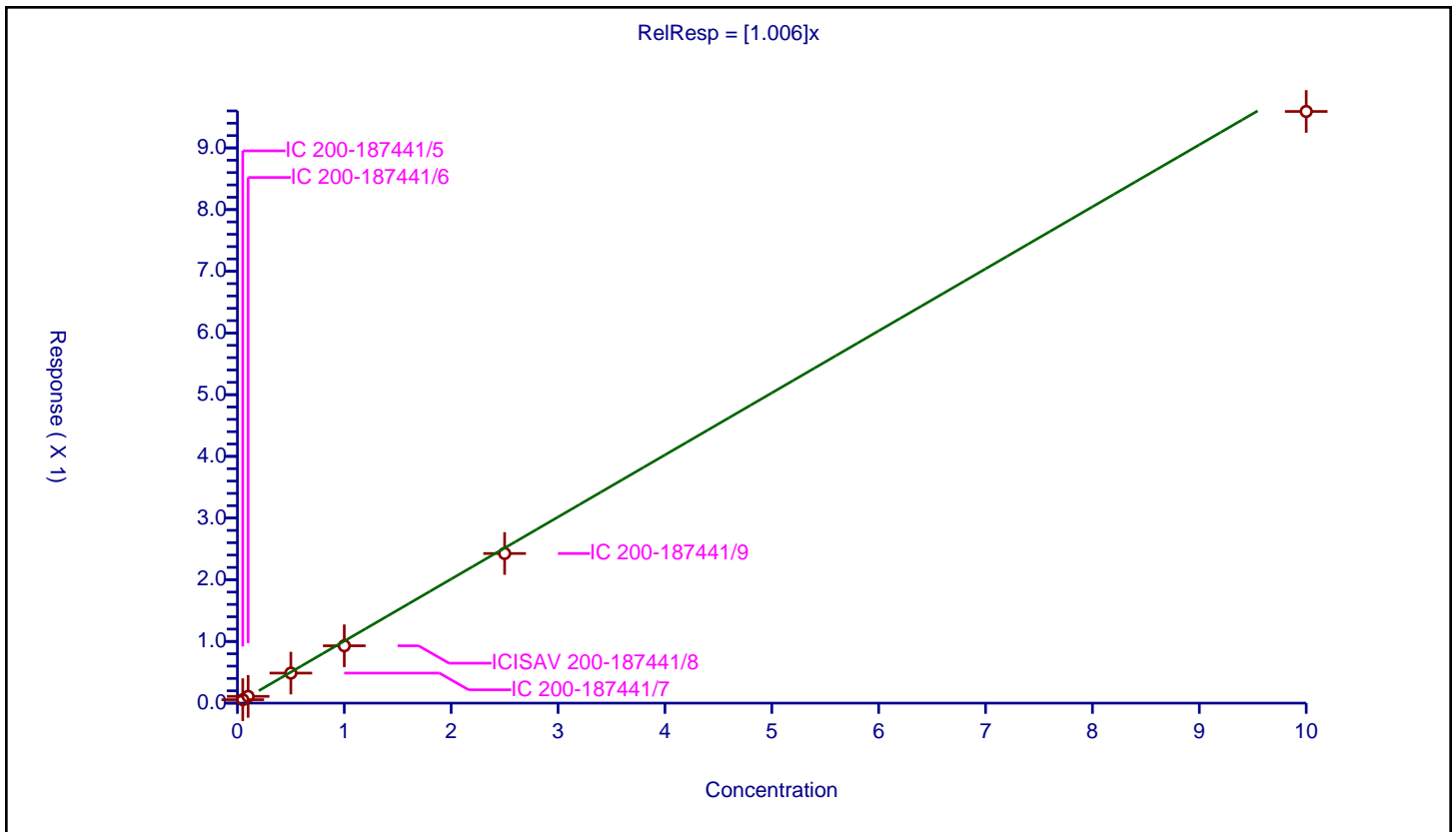
/ Perfluorooctanesulfonamide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.006

Error Coefficients	
Standard Error:	5160000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.055434	1.25	1494202.0	1.108685	Y
2	IC 200-187441/6	0.1	0.10932	1.25	1435323.0	1.093203	Y
3	IC 200-187441/7	0.5	0.486693	1.25	1520143.0	0.973385	Y
4	ICISAV 200-187441/8	1.0	0.929607	1.25	1541478.0	0.929607	Y
5	IC 200-187441/9	2.5	2.42574	1.25	1533594.0	0.970296	Y
6	IC 200-187441/10	10.0	9.590834	1.25	1441602.0	0.959083	Y



Calibration

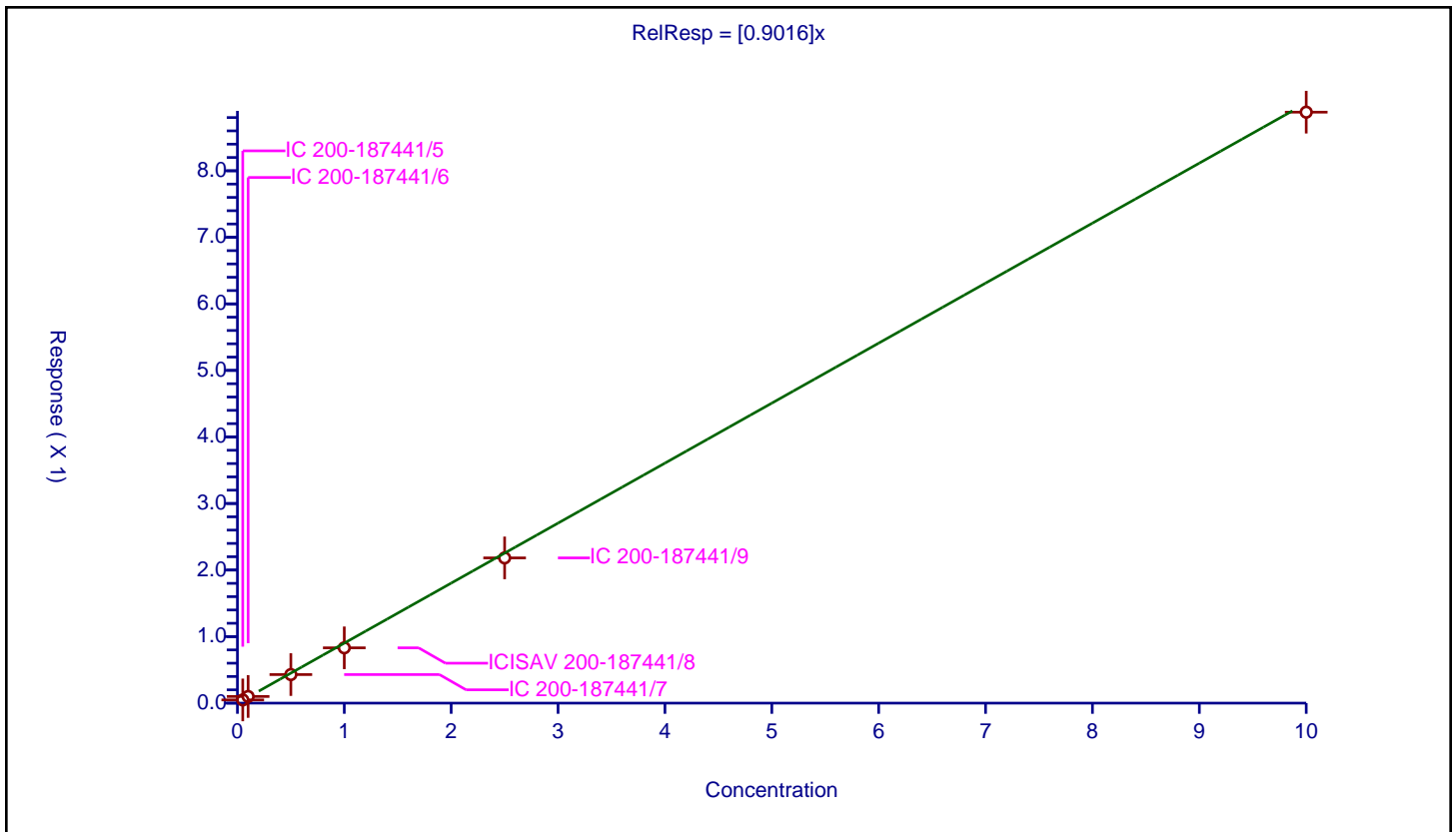
/ N-methylperfluorooctanesulfonamidoacetic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9016

Error Coefficients	
Standard Error:	1140000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.048074	1.25	339683.0	0.961485	Y
2	IC 200-187441/6	0.1	0.099801	1.25	345587.0	0.998012	Y
3	IC 200-187441/7	0.5	0.429108	1.25	375217.0	0.858217	Y
4	ICISAV 200-187441/8	1.0	0.831156	1.25	391757.0	0.831156	Y
5	IC 200-187441/9	2.5	2.182175	1.25	375639.0	0.87287	Y
6	IC 200-187441/10	10.0	8.880788	1.25	343314.0	0.888079	Y



Calibration

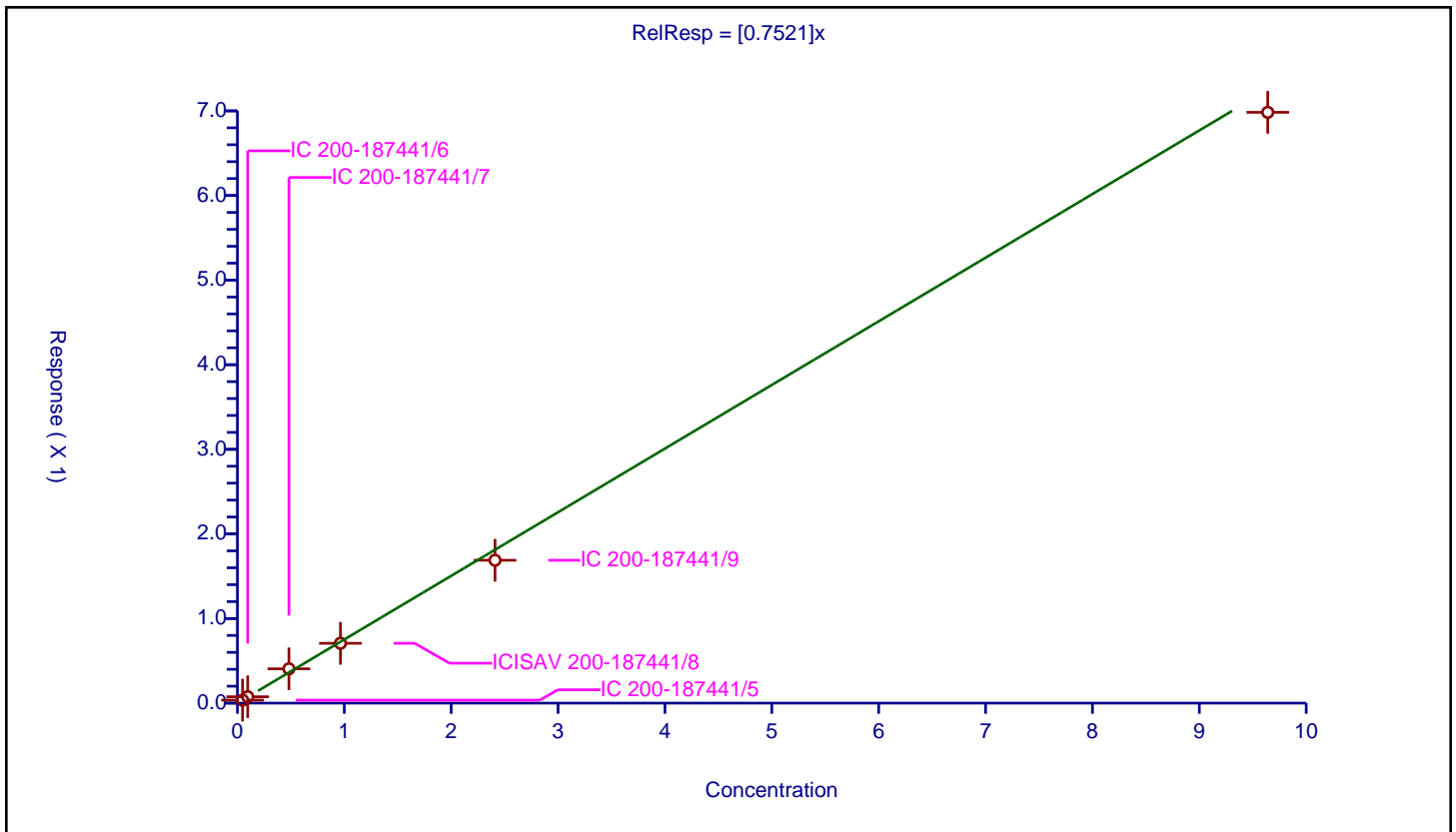
/ Perfluorodecanesulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7521

Error Coefficients	
Standard Error:	1980000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0482	0.03528	1.195	767609.0	0.731946	Y
2	IC 200-187441/6	0.0964	0.075285	1.195	806762.0	0.780965	Y
3	IC 200-187441/7	0.482	0.405352	1.195	732775.0	0.840979	Y
4	ICISAV 200-187441/8	0.964	0.707322	1.195	813855.0	0.733737	Y
5	IC 200-187441/9	2.41	1.688802	1.195	806118.0	0.700748	Y
6	IC 200-187441/10	9.64	6.983131	1.195	725859.0	0.724391	Y



Calibration

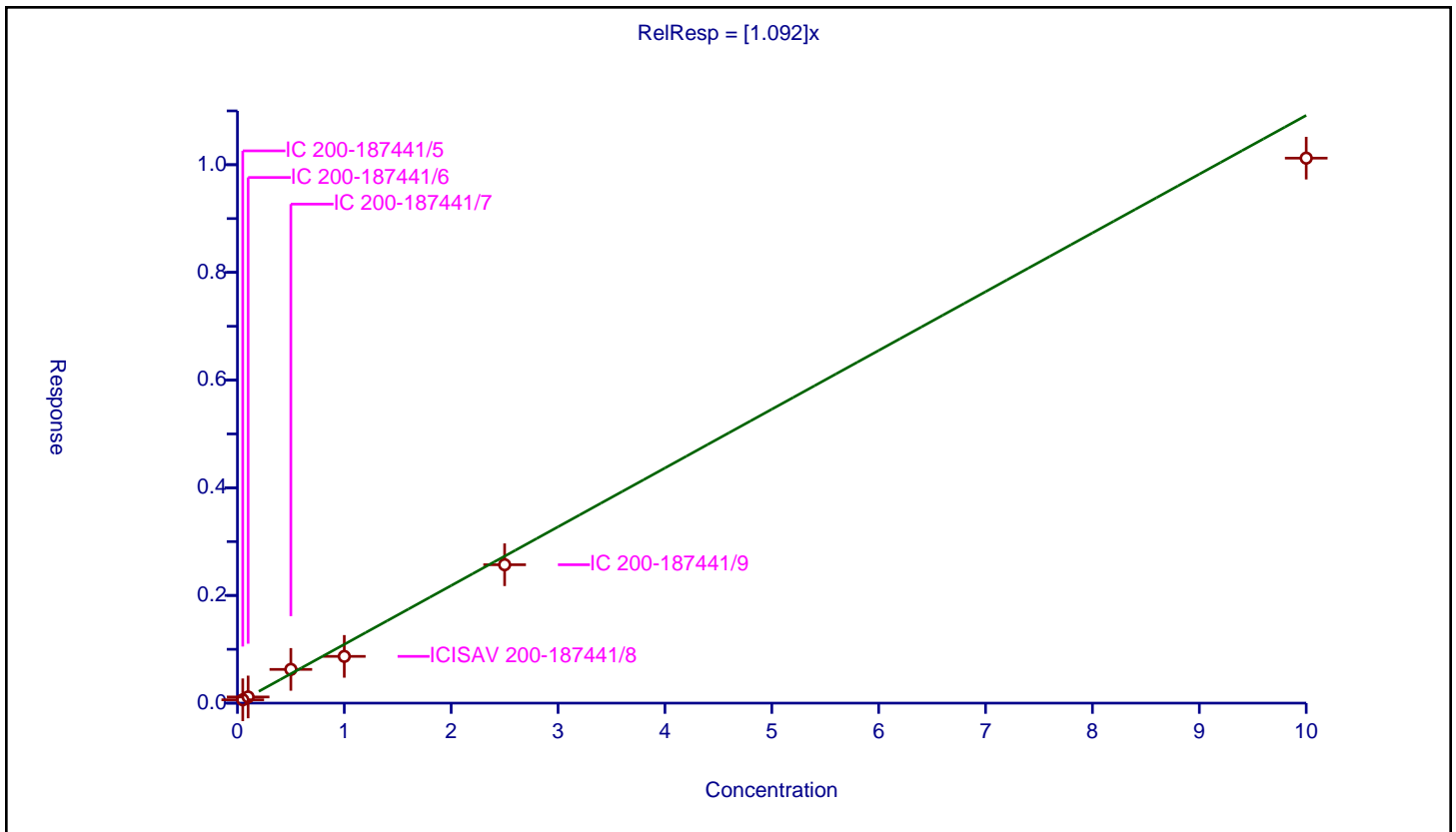
/ Perfluoroundecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.092

Error Coefficients	
Standard Error:	5440000
Relative Standard Error:	13.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.062124	1.25	1513495.0	1.242488	Y
2	IC 200-187441/6	0.1	0.114589	1.25	1584296.0	1.145888	Y
3	IC 200-187441/7	0.5	0.626447	1.25	1602066.0	1.252893	Y
4	ICISAV 200-187441/8	1.0	0.868345	1.25	1802127.0	0.868345	Y
5	IC 200-187441/9	2.5	2.570504	1.25	1609362.0	1.028202	Y
6	IC 200-187441/10	10.0	10.122485	1.25	1432402.0	1.012248	Y



Calibration

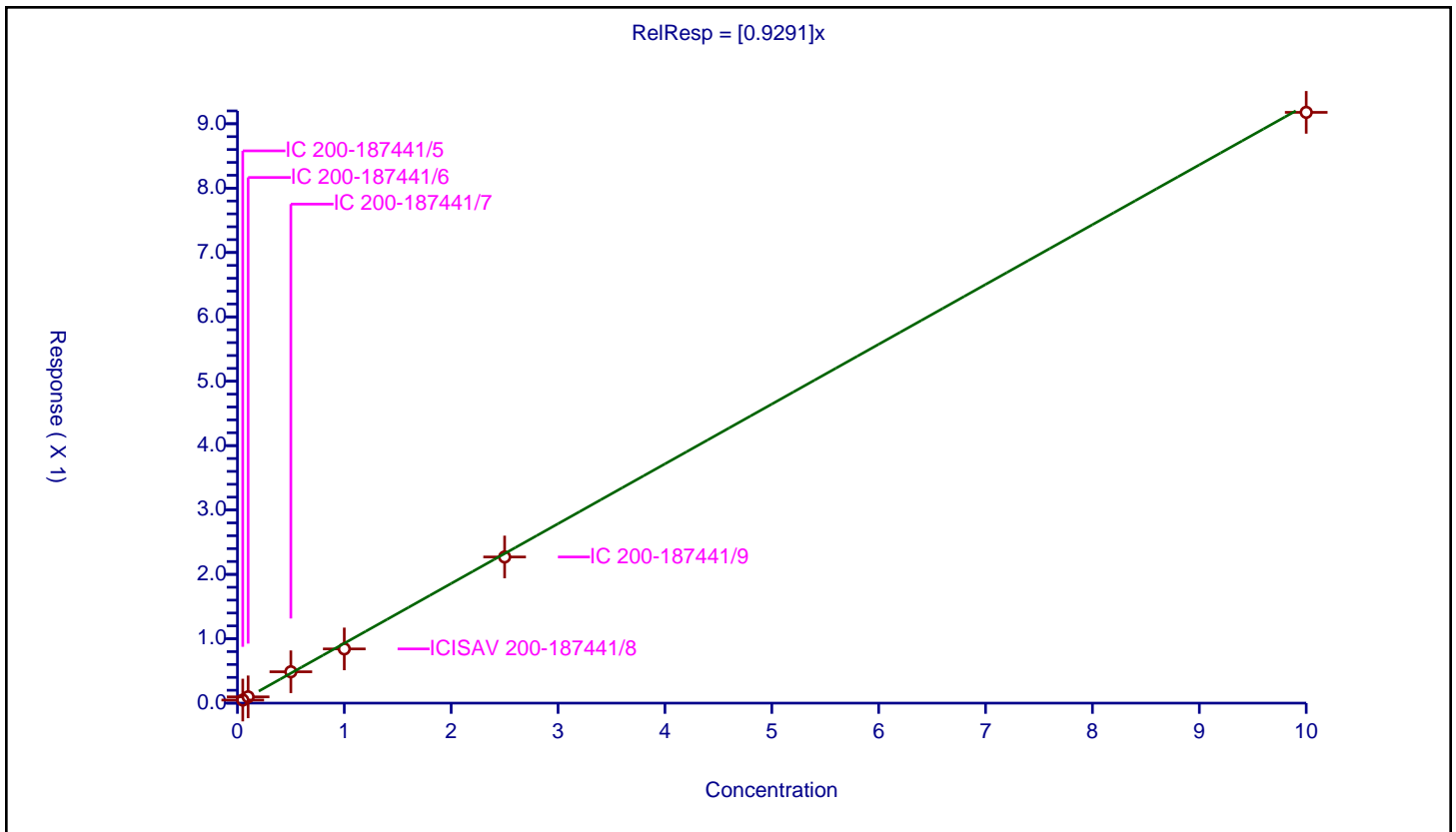
/ N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9291

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.047988	1.25	344409.0	0.95976	Y
2	IC 200-187441/6	0.1	0.097269	1.25	314232.0	0.972689	Y
3	IC 200-187441/7	0.5	0.486989	1.25	369795.0	0.973979	Y
4	ICISAV 200-187441/8	1.0	0.842144	1.25	400616.0	0.842144	Y
5	IC 200-187441/9	2.5	2.270419	1.25	349833.0	0.908168	Y
6	IC 200-187441/10	10.0	9.177298	1.25	311422.0	0.91773	Y



Calibration

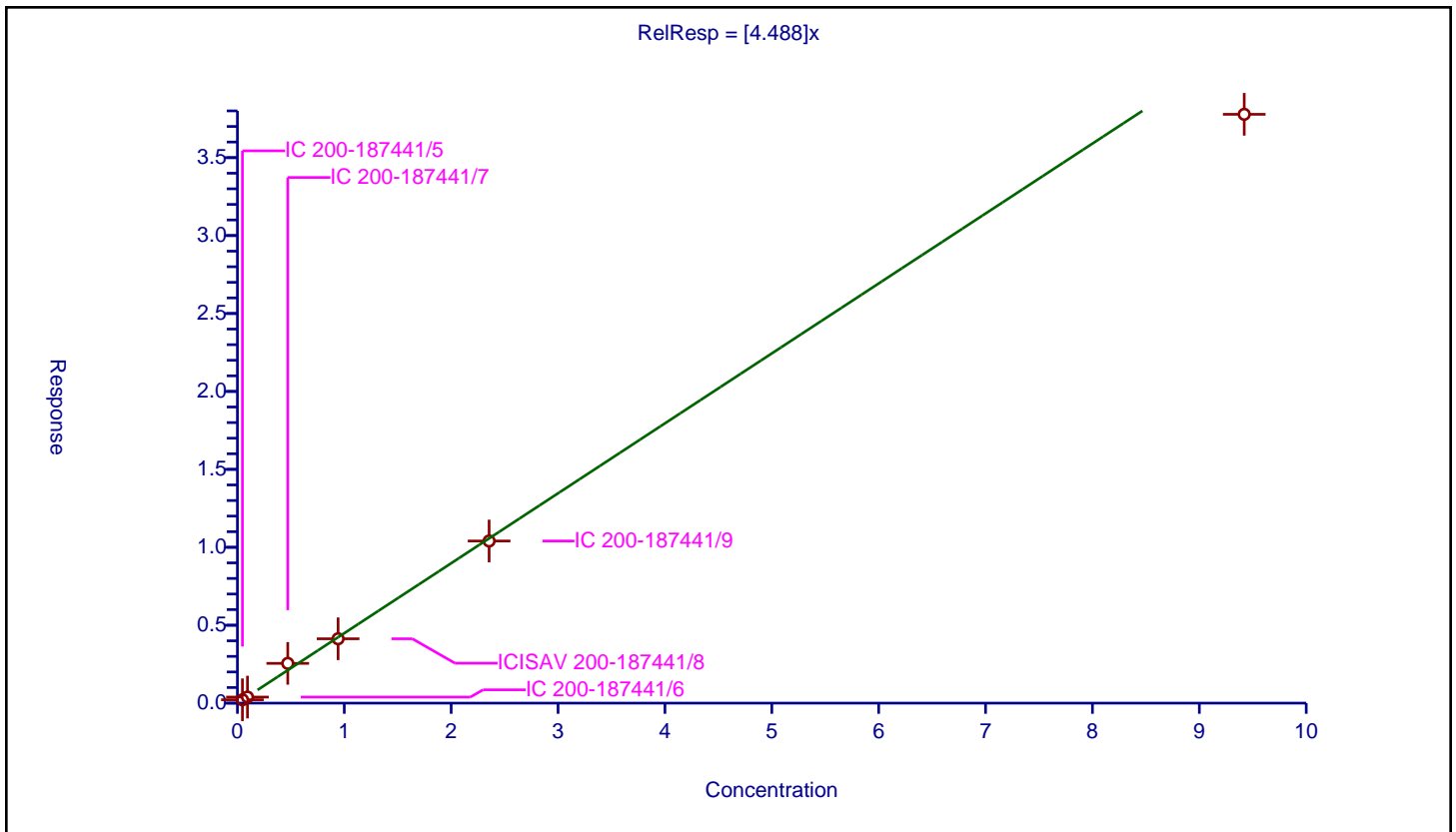
/ 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.488

Error Coefficients	
Standard Error:	10800000
Relative Standard Error:	11.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0471	0.215488	1.195	767609.0	4.575122	Y
2	IC 200-187441/6	0.0942	0.388495	1.195	806762.0	4.124156	Y
3	IC 200-187441/7	0.471	2.550641	1.195	732775.0	5.415373	Y
4	ICISAV 200-187441/8	0.942	4.129997	1.195	813855.0	4.384285	Y
5	IC 200-187441/9	2.355	10.402485	1.195	806118.0	4.417191	Y
6	IC 200-187441/10	9.42	37.780023	1.195	725859.0	4.010618	Y



Calibration

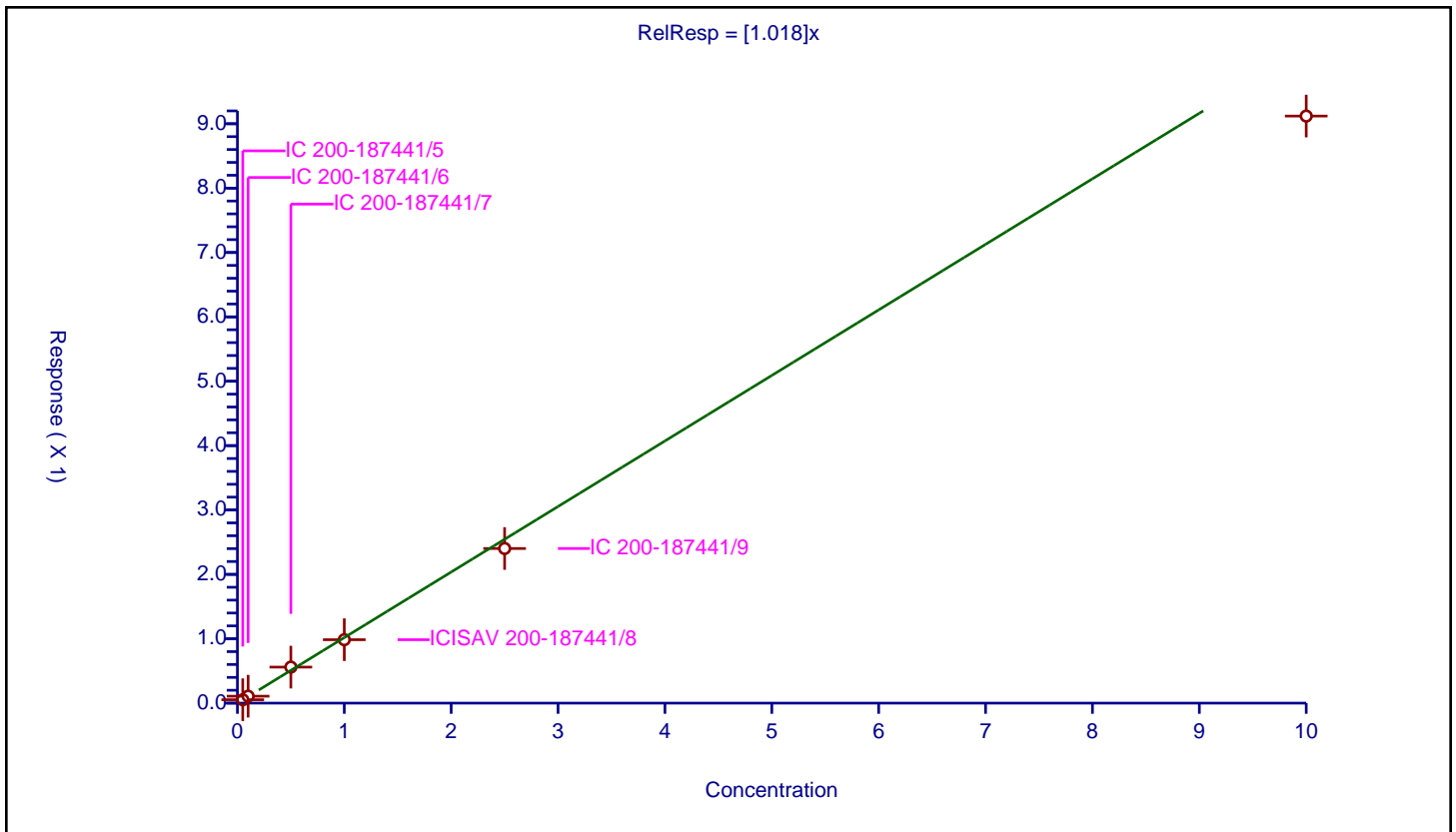
/ Perfluorododecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.018

Error Coefficients	
Standard Error:	5130000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.052704	1.25	1726095.0	1.054085	Y
2	IC 200-187441/6	0.1	0.107709	1.25	1554552.0	1.077087	Y
3	IC 200-187441/7	0.5	0.559701	1.25	1570634.0	1.119401	Y
4	ICISAV 200-187441/8	1.0	0.985288	1.25	1511917.0	0.985288	Y
5	IC 200-187441/9	2.5	2.401997	1.25	1683692.0	0.960799	Y
6	IC 200-187441/10	10.0	9.119889	1.25	1494839.0	0.911989	Y



Calibration

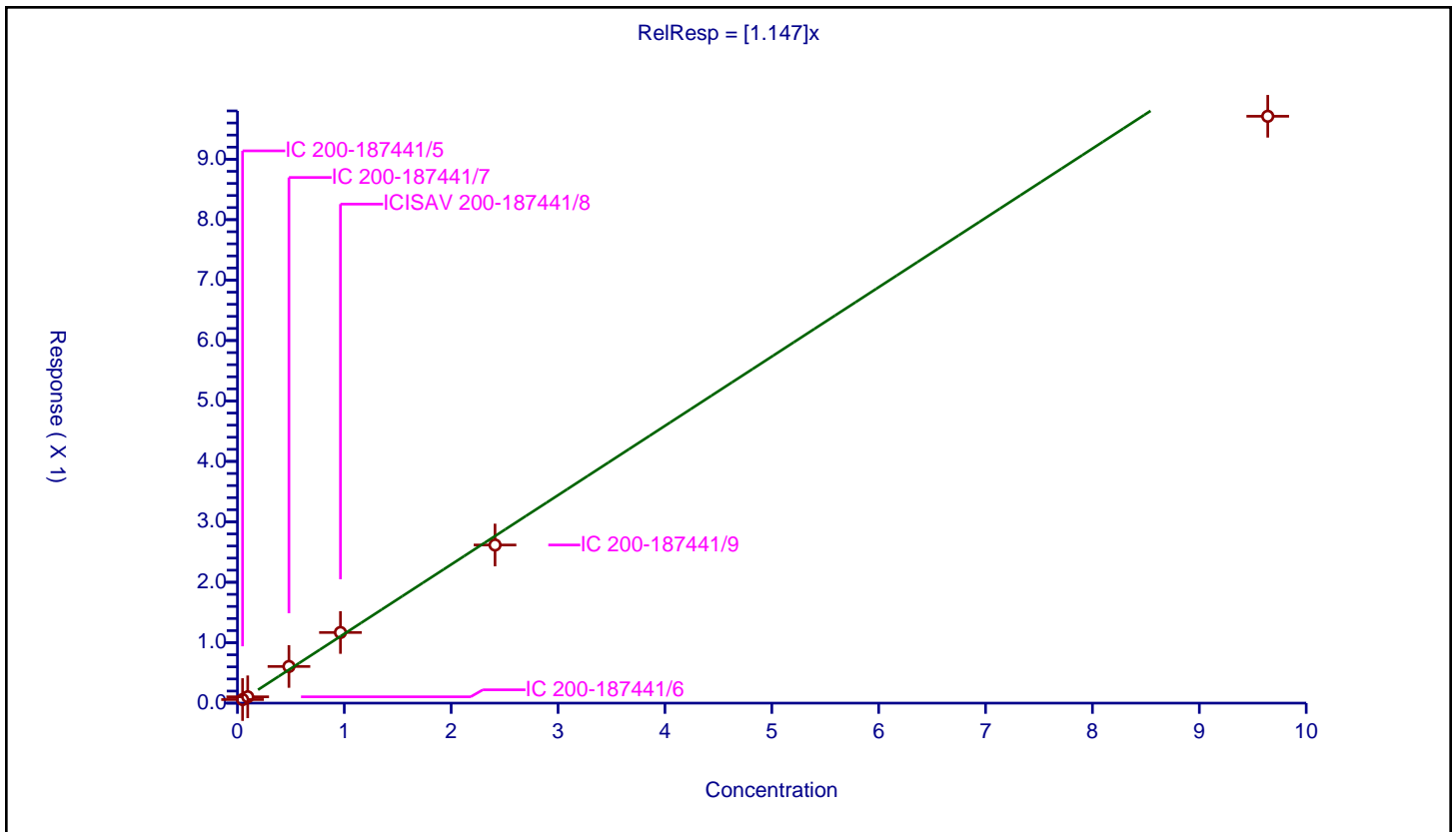
/ 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.147

Error Coefficients	
Standard Error:	943000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0482	0.059446	1.1975	252732.0	1.233314	Y
2	IC 200-187441/6	0.0964	0.104537	1.1975	260139.0	1.084404	Y
3	IC 200-187441/7	0.482	0.606724	1.1975	257487.0	1.258763	Y
4	ICISAV 200-187441/8	0.964	1.168985	1.1975	244119.0	1.21264	Y
5	IC 200-187441/9	2.41	2.616756	1.1975	246611.0	1.085791	Y
6	IC 200-187441/10	9.64	9.710786	1.1975	249058.0	1.007343	Y



Calibration

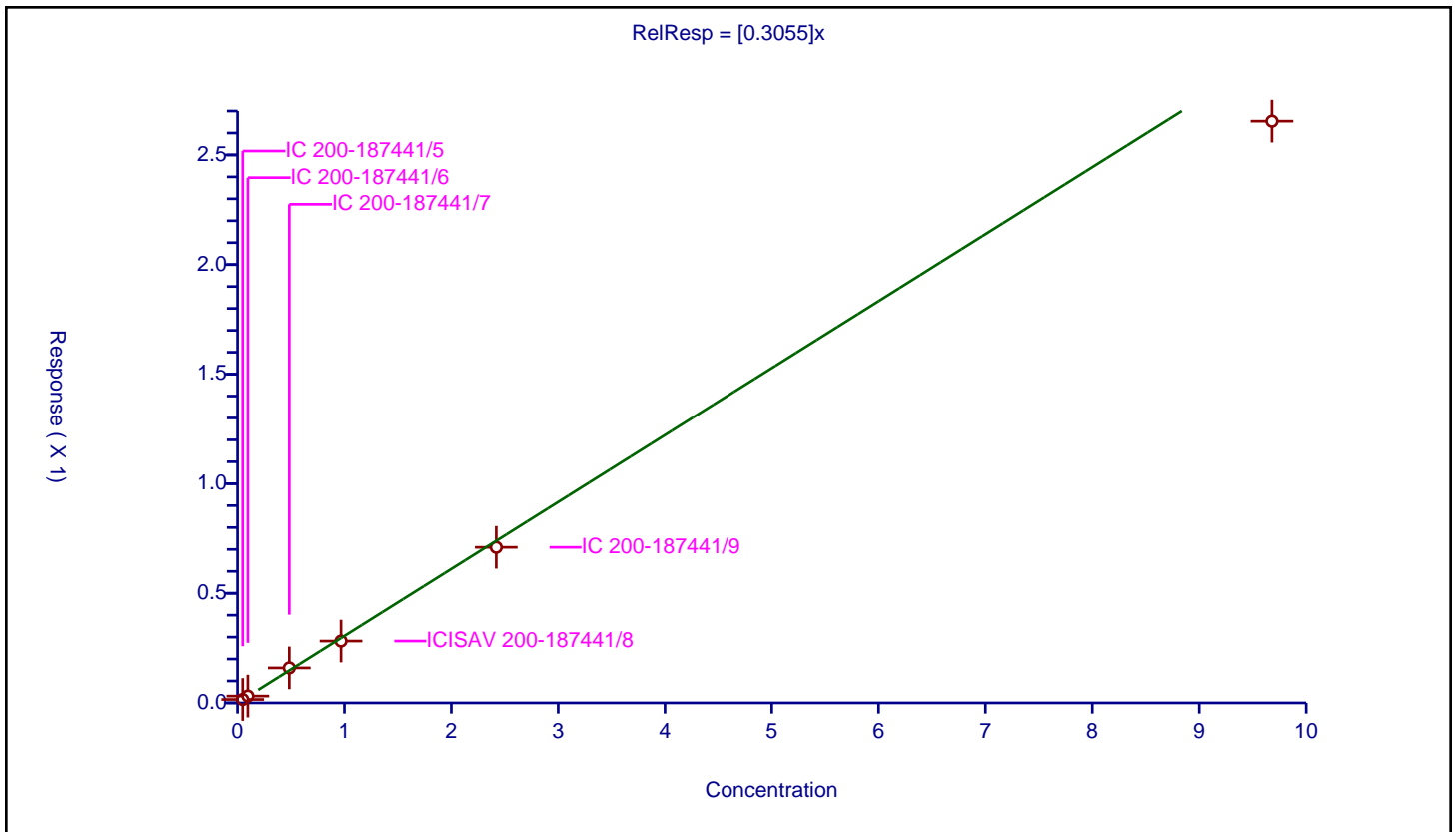
/ Perfluorododecanesulfonic acid (PFDoS)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3055

Error Coefficients	
Standard Error:	758000
Relative Standard Error:	7.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.0484	0.015644	1.195	767609.0	0.323225	Y
2	IC 200-187441/6	0.0968	0.031125	1.195	806762.0	0.32154	Y
3	IC 200-187441/7	0.484	0.159561	1.195	732775.0	0.329672	Y
4	ICISAV 200-187441/8	0.968	0.282029	1.195	813855.0	0.291352	Y
5	IC 200-187441/9	2.42	0.709606	1.195	806118.0	0.293226	Y
6	IC 200-187441/10	9.68	2.653901	1.195	725859.0	0.274163	Y



Calibration

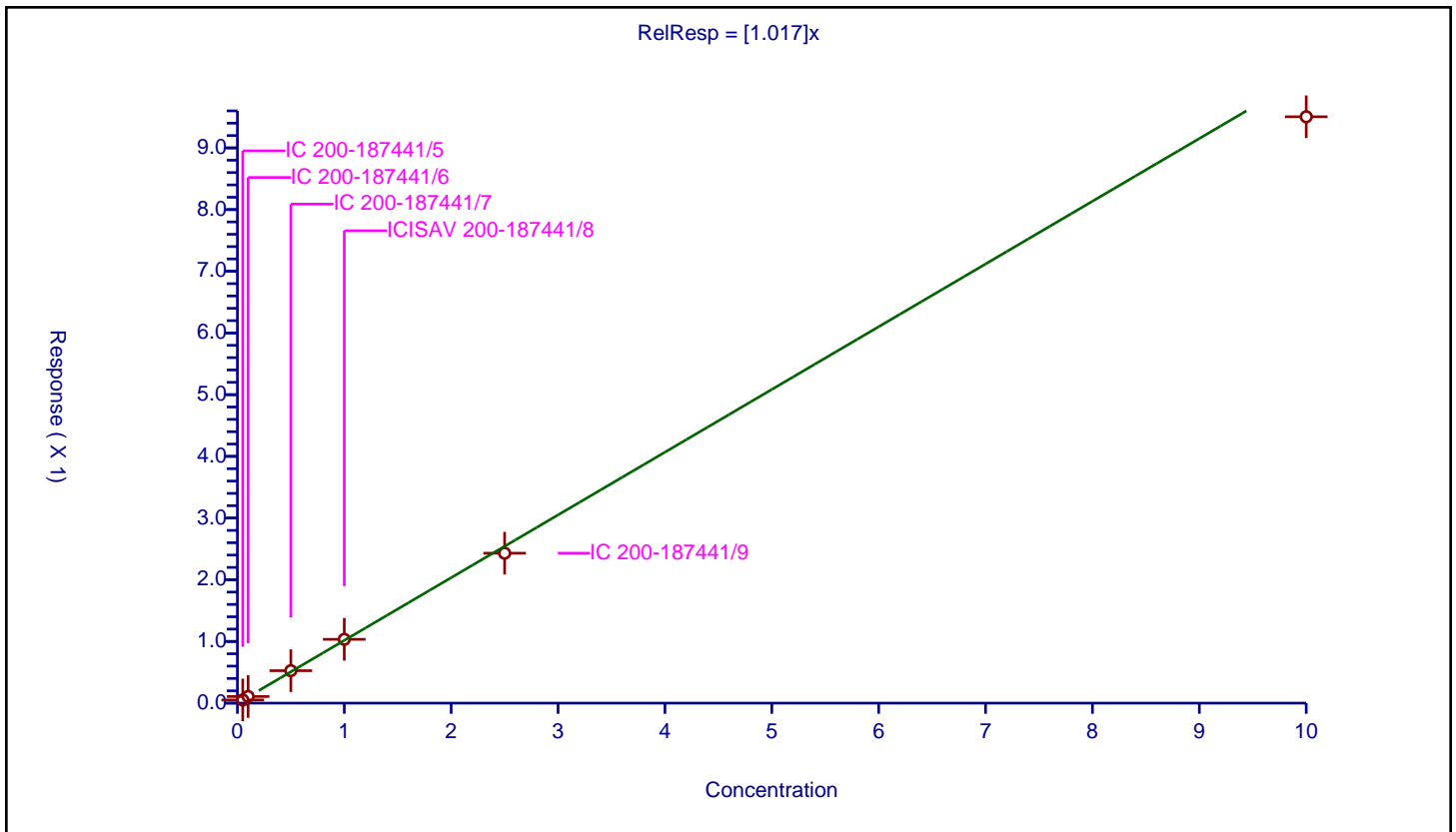
/ Perfluorotridecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.017

Error Coefficients	
Standard Error:	5330000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.051095	1.25	1726095.0	1.021902	Y
2	IC 200-187441/6	0.1	0.107097	1.25	1554552.0	1.070968	Y
3	IC 200-187441/7	0.5	0.525871	1.25	1570634.0	1.051742	Y
4	ICISAV 200-187441/8	1.0	1.034181	1.25	1511917.0	1.034181	Y
5	IC 200-187441/9	2.5	2.430315	1.25	1683692.0	0.972126	Y
6	IC 200-187441/10	10.0	9.504422	1.25	1494839.0	0.950442	Y



Calibration

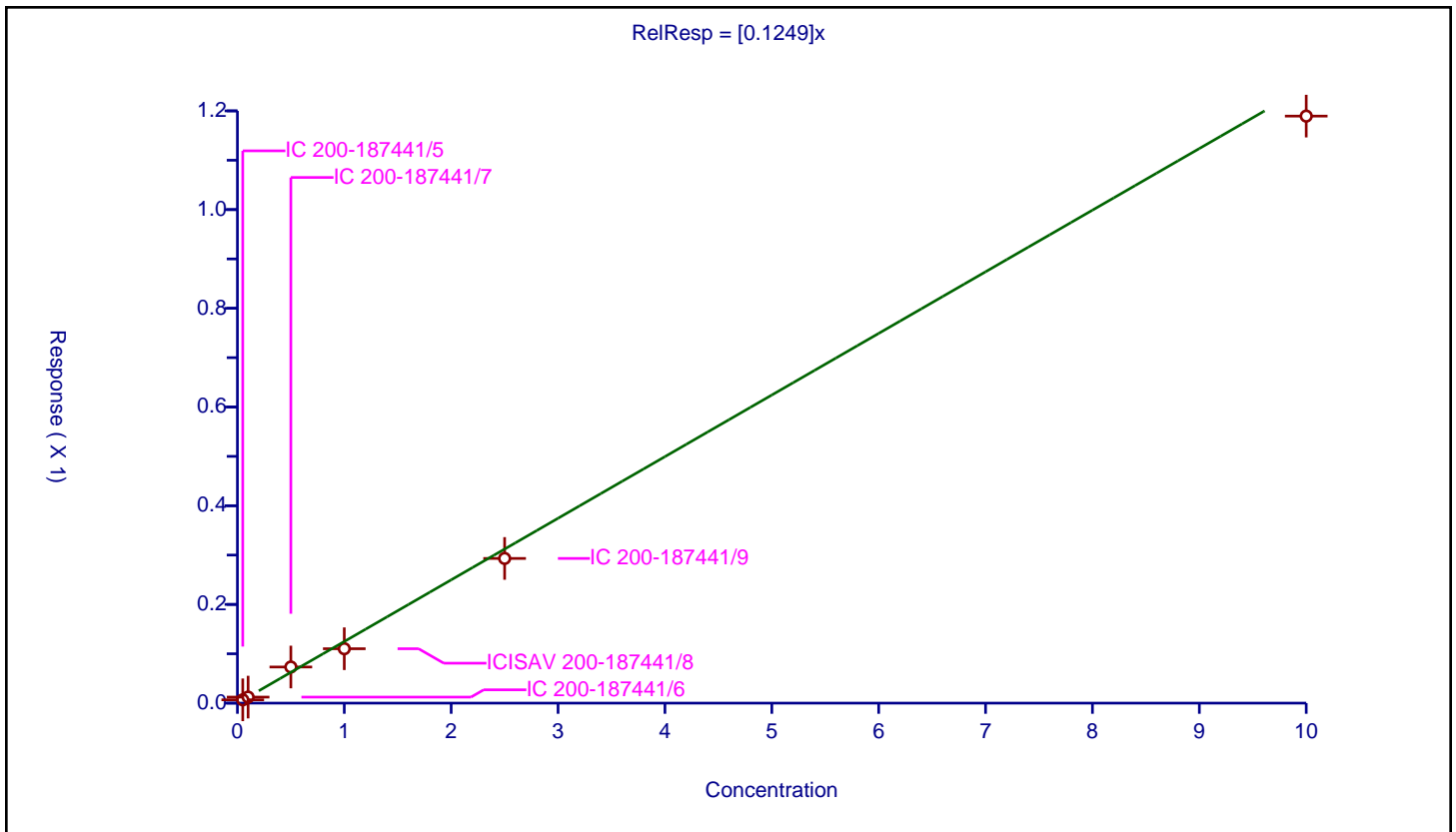
/ Perfluorotetradecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1249

Error Coefficients	
Standard Error:	550000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.006699	1.25	1359960.0	0.133975	Y
2	IC 200-187441/6	0.1	0.012232	1.25	1461569.0	0.122317	Y
3	IC 200-187441/7	0.5	0.073206	1.25	1269926.0	0.146412	Y
4	ICISAV 200-187441/8	1.0	0.110229	1.25	1479086.0	0.110229	Y
5	IC 200-187441/9	2.5	0.293165	1.25	1419059.0	0.117266	Y
6	IC 200-187441/10	10.0	1.189437	1.25	1234482.0	0.118944	Y



Calibration

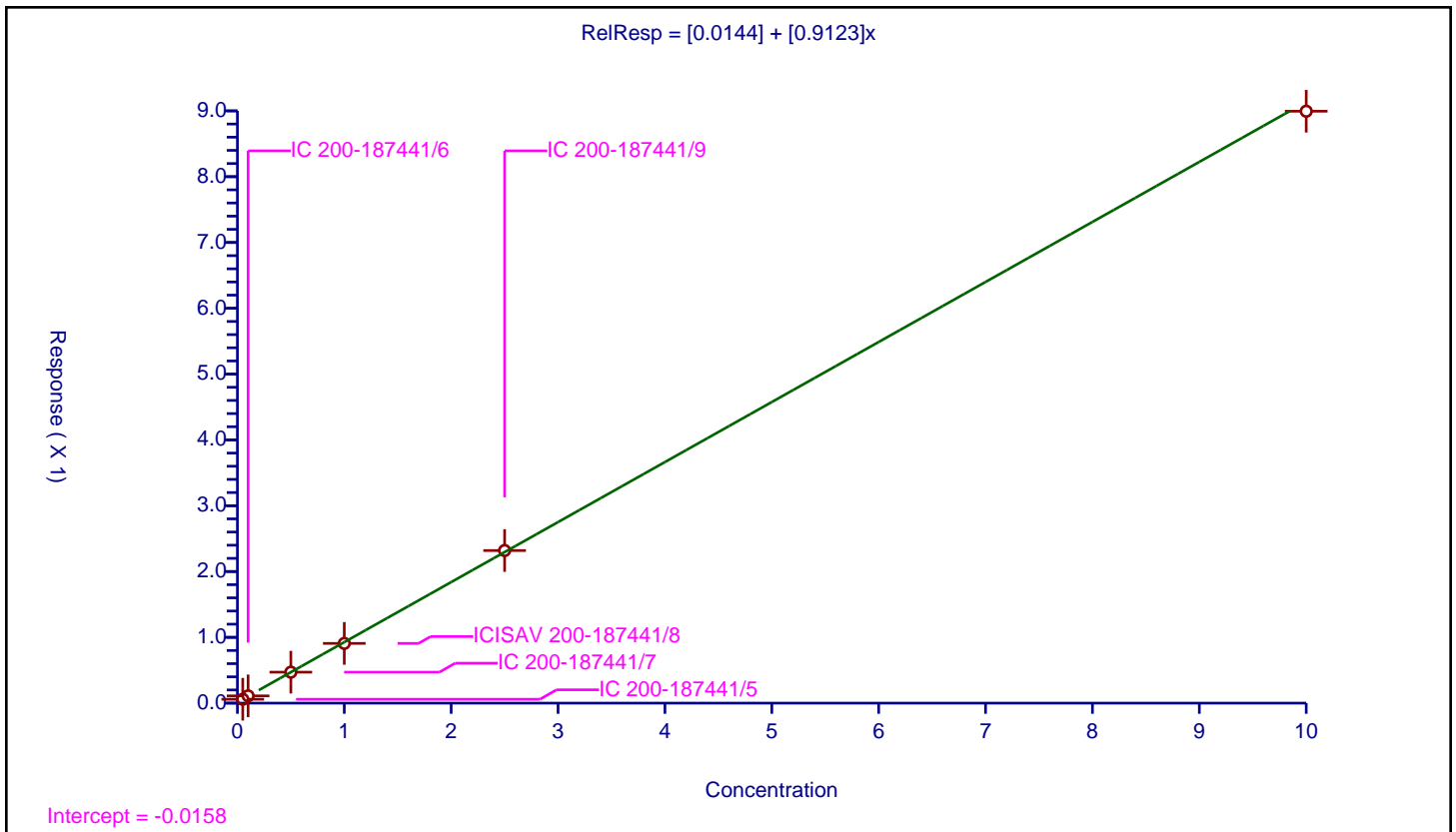
/ Perfluorohexadecanoic acid

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0144
Slope:	0.9123

Error Coefficients	
Standard Error:	5780000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.05891	1.25	1635507.0	1.178197	Y
2	IC 200-187441/6	0.1	0.110218	1.25	1624889.0	1.102183	Y
3	IC 200-187441/7	0.5	0.470464	1.25	1733261.0	0.940927	Y
4	ICISAV 200-187441/8	1.0	0.907637	1.25	1823724.0	0.907637	Y
5	IC 200-187441/9	2.5	2.31905	1.25	1735459.0	0.92762	Y
6	IC 200-187441/10	10.0	8.994726	1.25	1527972.0	0.899473	Y



Calibration

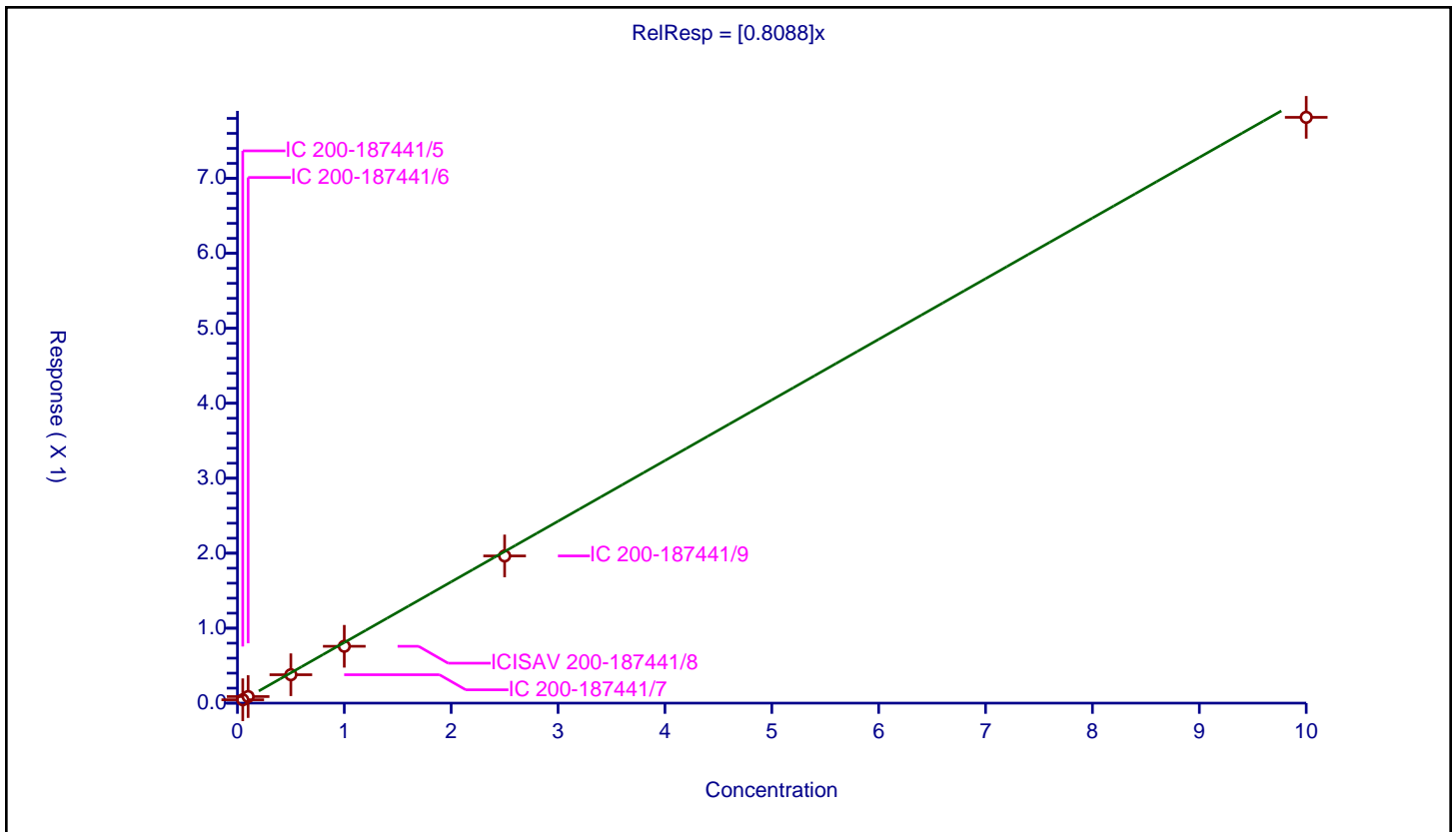
/ Perfluorooctadecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8088

Error Coefficients	
Standard Error:	4480000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-187441/5	0.05	0.044789	1.25	1635507.0	0.895777	Y
2	IC 200-187441/6	0.1	0.087441	1.25	1624889.0	0.874414	Y
3	IC 200-187441/7	0.5	0.378868	1.25	1733261.0	0.757736	Y
4	ICISAV 200-187441/8	1.0	0.758297	1.25	1823724.0	0.758297	Y
5	IC 200-187441/9	2.5	1.963356	1.25	1735459.0	0.785342	Y
6	IC 200-187441/10	10.0	7.813849	1.25	1527972.0	0.781385	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: ICV 200-187441/12 Calibration Date: 01/11/2023 18:40
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230111ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		1.092		1.11	1.00	11.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.069		0.943	1.01	-6.7	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.041		0.972	1.00	-2.8	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	3.189		1.08	1.00	7.8	30.0
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.139		1.09	1.01	8.1	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.361		1.10	1.00	10.1	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.9531		0.963	1.01	-4.7	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	1.134		1.07	1.00	6.5	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.109		1.02	1.01	1.1	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	6.248		1.09	1.00	8.9	30.0
6:2 FTS	AveID	2.290	2.159		0.943	1.00	-5.7	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.544		1.06	1.00	6.1	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.084		0.996	1.00	-0.4	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.107		0.921	1.01	-8.8	30.0
Perfluorononanoic acid (PFNA)	AveID	1.022	1.118		1.10	1.00	9.5	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	3.291		1.14	1.00	13.5	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.9180		0.919	1.01	-9.0	30.0
Perfluorodecanoic acid (PFDA)	AveID	1.069	1.022		0.955	1.00	-4.5	30.0
8:2 FTS	AveID	1.814	2.035		1.13	1.01	12.2	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.9863		0.981	1.00	-1.9	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.9673		1.07	1.00	7.3	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7903		1.06	1.01	5.1	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.029		0.943	1.00	-5.7	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.8865		0.954	1.00	-4.6	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	4.700		1.05	1.00	4.7	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.018	1.007		0.989	1.00	-1.1	30.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	0.9476		0.796	0.964	-17.4	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2879		0.912	0.968	-5.8	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: ICV 200-187441/12 Calibration Date: 01/11/2023 18:40
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230111ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	0.8937		0.879	1.00	-12.1	30.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1407		1.13	1.00	12.7	30.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8121		0.874	1.00	-12.6	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.7640		0.945	1.00	-5.5	30.0
13C4 PFBA	Ave	1.150	0.8237		0.895	1.25	-28.4	50.0
13C5 PFPeA	Ave	0.9294	0.6976		0.938	1.25	-24.9	50.0
13C3 PFBS	Ave	1.020	0.7495		0.854	1.16	-26.5	50.0
M2-4:2 FTS	Ave	0.0825	0.0569		0.805	1.17	-31.0	50.0
13C2 PFHxA	Ave	0.9657	0.7273		0.941	1.25	-24.7	50.0
13C3 HFPO-DA	Ave	0.1673	0.1220		0.912	1.25	-27.1	50.0
13C4 PFHpA	Ave	0.9669	0.6859		0.887	1.25	-29.1	50.0
18O2 PFHxS	Ave	0.7424	0.5259		0.838	1.18	-29.2	50.0
M2-6:2 FTS	Ave	0.1170	0.0981		0.995	1.19	-16.2	50.0
13C4 PFOA	Ave	1.024	0.7927		0.967	1.25	-22.6	50.0
13C4 PFOS	Ave	0.4514	0.3236		0.857	1.20	-28.3	50.0
13C5 PFNA	Ave	0.998	0.7365		0.923	1.25	-26.2	50.0
13C2 PFDA	Ave	1.024	0.8506		1.04	1.25	-16.9	50.0
M2-8:2 FTS	Ave	0.1466	0.1061		0.867	1.20	-27.6	50.0
13C8 FOSA	Ave	0.8320	0.5577		0.838	1.25	-33.0	50.0
d3-NMeFOSAA	Ave	0.2013	0.1476		0.917	1.25	-26.6	50.0
13C2 PFUnA	Ave	0.8836	0.6801		0.962	1.25	-23.0	50.0
d5-NEtFOSAA	Ave	0.1934	0.1416		0.915	1.25	-26.8	50.0
13C2 PFDoA	Ave	0.8860	0.6778		0.956	1.25	-23.5	50.0
13C2 PFTeDA	Ave	0.7620	0.5637		0.925	1.25	-26.0	50.0
13C2 PFHxDA	Ave	0.9339	0.6753		0.904	1.25	-27.7	50.0

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Jan-2023 18:40:11 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0053969-012 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:27:07 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

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

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.604	2124343	0.8955	71.6	14777	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.094	-0.008	1.000	1856636	1.11		169		M
D 3 13C5 PFPeA	267.90 > 223.00	2.398	2.370	0.028	0.694	1799214	0.9382	75.1	7923	
4 Perfluoropentanoic acid	262.90 > 219.00	2.398	2.370	0.028	1.000	1553802	0.9426		49.4	
D 47 13C3 PFBS	301.90 > 80.00	2.425	2.384	0.041	0.702	1797673	0.8539	73.5	168027	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.425	2.384	0.041	1.000	1610147	0.9719	Target=2.10	2514	
298.90 > 99.00	2.425	2.384	0.041	1.000	800179		2.01(1.05-3.15)	636		
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.706	2.669	0.037	1.000	374296	1.08		3882	
D 60 M2-4:2 FTS	329.00 > 81.00	2.706	2.669	0.037	0.783	137028	0.8050	69.0	179	
D 7 13C2 PFHxA	315.00 > 270.00	2.744	2.694	0.050	0.794	1875744	0.9414	75.3	8233	
6 Perfluorohexanoic acid	313.00 > 269.00	2.744	2.706	0.038	1.000	1725561	1.09	Target=13.16	371	
313.00 > 119.00	2.744	2.706	0.038	1.000	123654		13.95(6.58-19.74)	226		
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.756	2.706	0.050	0.885	1477031	1.10	Target=2.90	2315	
349.00 > 99.00	2.744	2.706	0.038	0.881	513028		2.88(1.45-4.35)	1193		
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.856	2.806	0.050	1.000	242361	0.9630		3926	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.856	2.806	0.050	0.827	314726	0.9117		72.9	5937	
D 11 18O2 PFHxS										
403.00 > 84.00	3.116	3.069	0.047	0.902	1283023	0.8376		70.8	6522	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.116	3.069	0.047	1.000	1215738	1.02	Target=3.18		3421	
399.00 > 99.00	3.116	3.069	0.047	1.000	353714		3.44(1.59-4.77)		721	
D 9 13C4 PFHpA										
367.00 > 322.00	3.116	3.069	0.047	0.902	1768988	0.8867		70.9	5323	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.116	3.069	0.047	1.000	1605070	1.07	Target=4.10		302	
363.00 > 169.00	3.116	3.069	0.047	1.000	401031		4.00(2.05-6.16)		759	
77 DONA										
377.00 > 251.00	3.150	3.104	0.046	0.839	4171768	1.09	Target=2.96		3141	
377.00 > 85.00	3.150	3.104	0.046	0.839	1334944		3.13(1.48-4.44)		2386	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.446	3.417	0.029	0.997	240260	0.99		83.8	988	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.446	3.417	0.029	1.000	436896	0.9430			499	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.446	3.417	0.029	0.918	1031170	1.06	Target=4.59		3914	
449.00 > 99.00	3.446	3.417	0.029	0.918	212971		4.84(2.30-6.89)		1629	
D 14 13C4 PFOA										
417.00 > 372.00	3.455	3.426	0.029	1.000	2044526	0.9673		77.4	7334	
* 62 13C2 PFOA										
415.00 > 370.00	3.455	3.426	0.029		2579133	1.25			11859	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.455	3.426	0.029	1.000	1773585	1.00	Target=2.71		126	M
413.00 > 169.00	3.455	3.426	0.029	1.000	662331		2.68(1.36-4.07)		424	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.087	797952	0.8568		71.7	3558	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.754	3.754	0.0	1.000	746905	0.9208	Target=4.23		782	M
499.00 > 99.00	3.754	3.754	0.0	1.000	178571		4.18(2.11-6.34)		729	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	1699352	1.09	Target=8.78		287	
463.00 > 169.00	3.773	3.774	-0.001	1.000	207021		8.21(4.39-13.17)		2487	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.092	1899659	0.9225		73.8	11934	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.909	3.922	-0.013	1.041	2197752	1.13			7837	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.043	4.043	0.0	1.077	619115	0.9189	Target=2.37		5805	
549.00 > 99.00	4.033	4.043	-0.010	1.075	261682		2.37(1.18-3.55)		2148	
D 23 13C2 PFDA										
515.00 > 470.00	4.063	4.074	-0.011	1.176	2193699	1.04		83.1	7828	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.063	4.074	-0.011	1.000	1792781	0.9554	Target=11.13		714	
513.00 > 169.00	4.063	4.074	-0.011	1.000	182940		9.80(5.56-16.69)		863	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.074	4.085	-0.011	1.179	262237	0.8668		72.4	1402	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.074	4.085	-0.011	1.000	450024	1.13			5118	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.132	4.144	-0.012	1.000	1135031	0.9807			1965	
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.196	1438431	0.8379		67.0	3641	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.204	4.226	-0.022	1.217	380791	0.9170		73.4	943	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.204	4.226	-0.022	1.000	294671	1.07			755	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.298	4.322	-0.024	1.145	532971	1.06	Target=2.45		2863	
599.00 > 99.00	4.298	4.322	-0.024	1.145	218872		2.44(1.23-3.68)		2722	
D 30 13C2 PFUnA										
565.00 > 520.00	4.322	4.346	-0.024	1.251	1754108	0.9621		77.0	5675	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.322	4.346	-0.024	1.000	1443987	0.9426	Target=10.33		381	M
563.00 > 169.00	4.322	4.346	-0.024	1.000	133863		10.79(5.17-15.50)		393	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.334	4.358	-0.024	1.000	258925	0.9541			1017	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.334	4.358	-0.024	1.254	365113	0.9151		73.2	832	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.417	4.452	-0.035	1.177	3138321	1.05			5872	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.558	4.584	-0.026	1.000	1408027	0.9889	Target=8.10		177	
613.00 > 169.00	4.558	4.584	-0.026	1.000	167645		8.40(4.05-12.15)		1941	
D 36 13C2 PFDaA										
615.00 > 570.00	4.558	4.584	-0.026	1.319	1748210	0.9563		76.5	4881	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.571	4.606	-0.035	1.122	200052	0.7964			2482	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.731	4.770	-0.039	1.260	186102	0.9122	Target=0.51		3434	
699.00 > 99.00	4.731	4.770	-0.039	1.260	355732		0.52(0.26-0.77)		3870	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.760	4.799	-0.039	1.044	1249893	0.8788	Target=6.06		156	M
663.00 > 169.00	4.760	4.799	-0.039	1.044	207450		6.03(3.03-9.09)		540	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.955	4.998	-0.043	1.000	163657	1.13	Target=0.83		1130	M
713.00 > 219.00	4.955	4.998	-0.043	1.000	158305		1.03(0.42-1.25)		461	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.955	4.998	-0.043	1.434	1453857	0.9247		74.0	5475	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.316	5.362	-0.046	1.000	1131433	0.8744	Target=6.74		160	
813.00 > 169.00	5.316	5.362	-0.046	1.000	173915		6.51(3.37-10.11)		1931	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.316	5.362	-0.046	1.539	1741575	0.9038		72.3	5764	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.674	5.711	-0.037	1.067	1064474	0.9446	Target=6.99		152	
913.00 > 169.00	5.665	5.711	-0.046	1.066	148969		7.15(3.50-10.49)		1085	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00012

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d

Injection Date: 11-Jan-2023 18:40:11

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

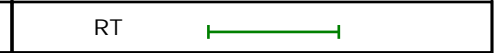
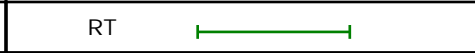
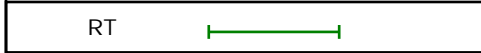
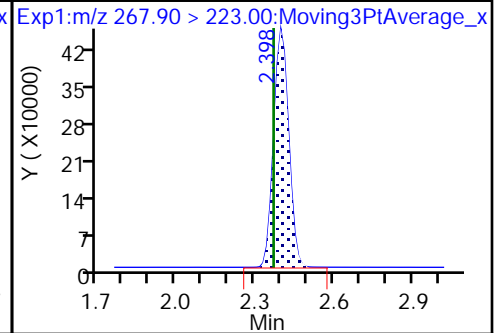
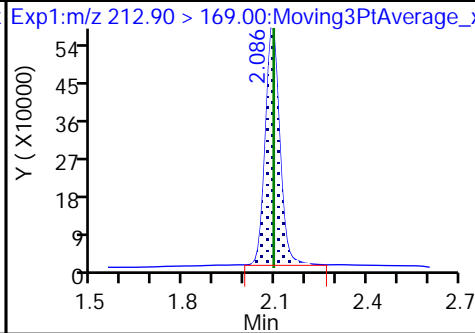
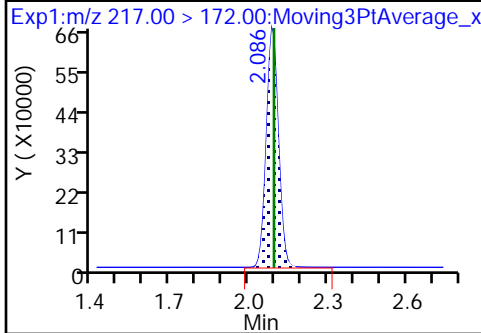
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Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

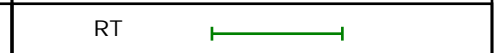
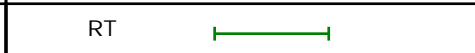
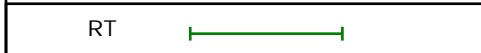
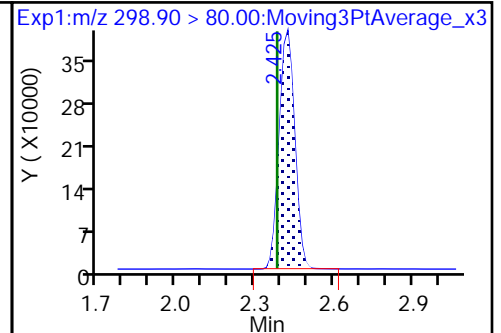
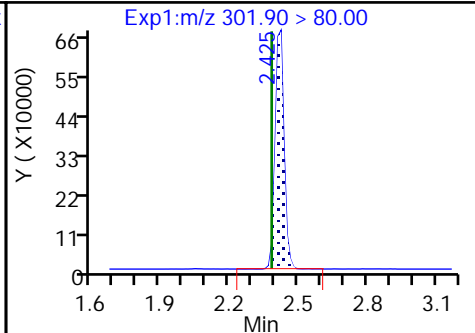
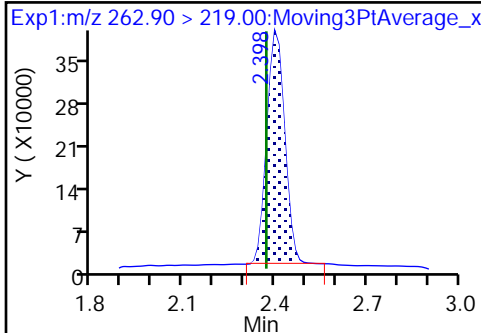
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

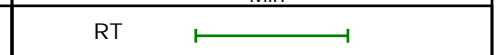
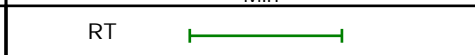
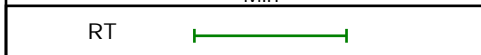
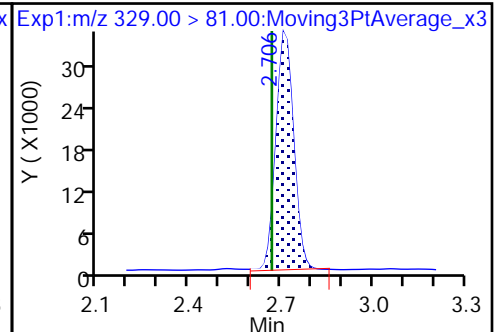
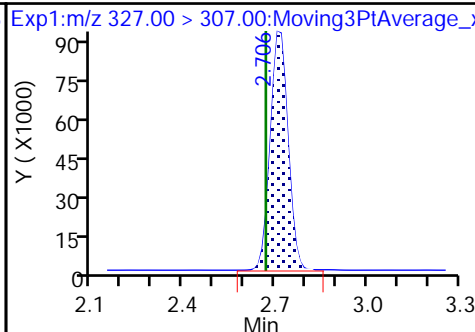
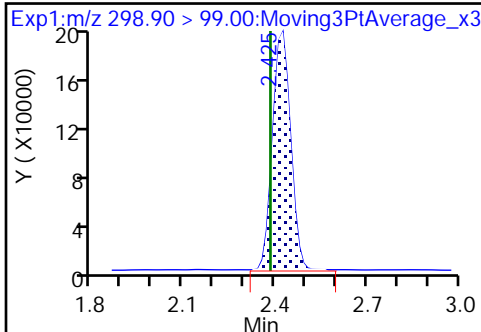
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

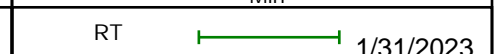
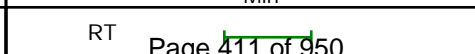
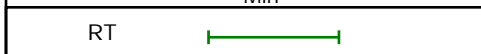
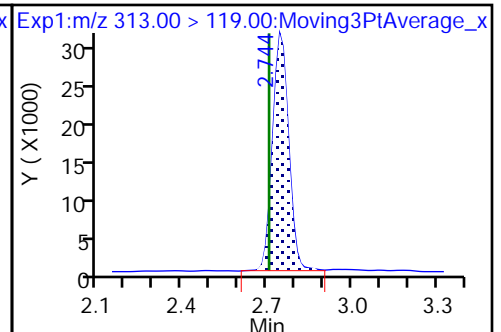
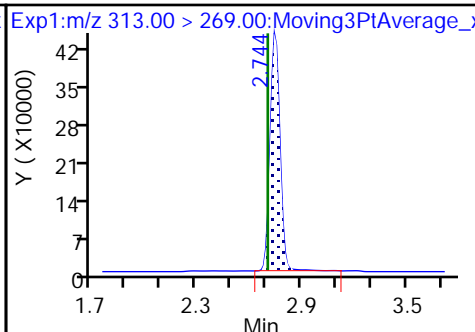
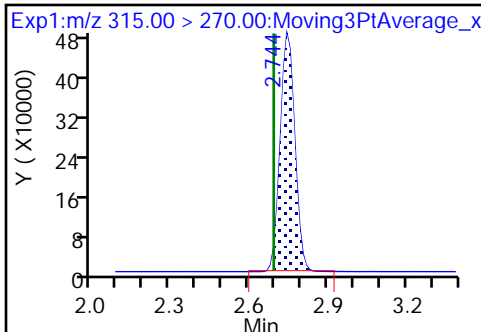
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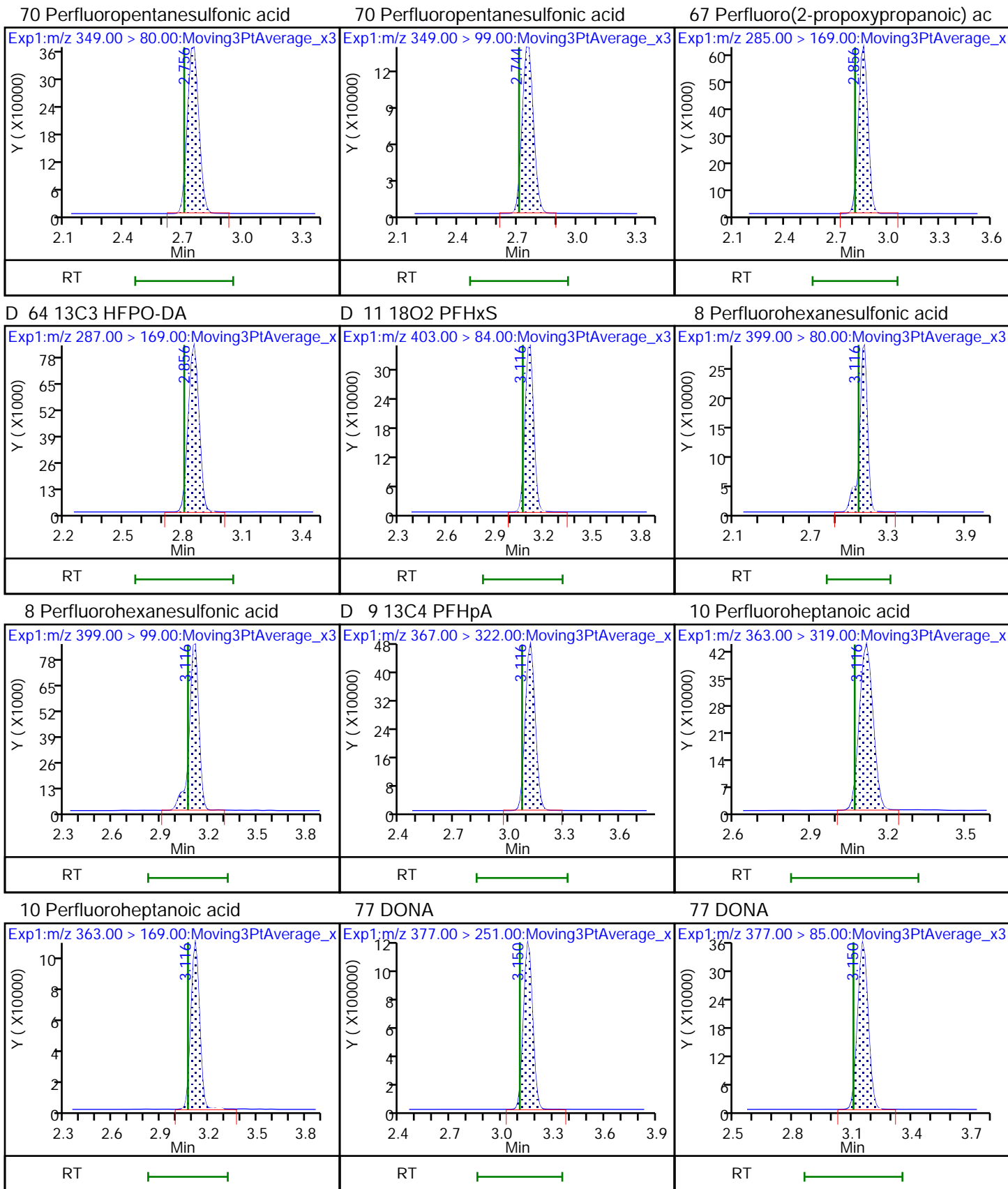


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

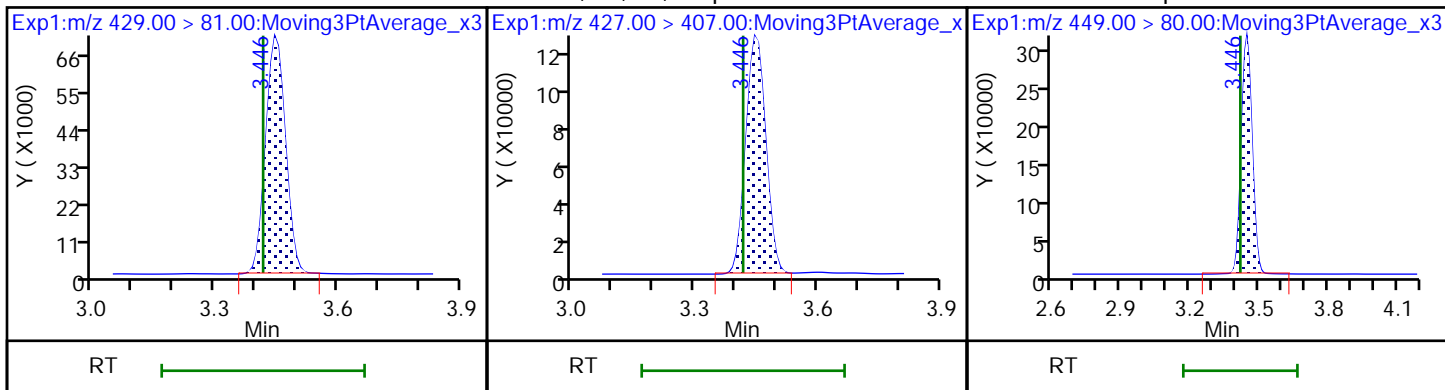




D 12 M2-6:2 FTS

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

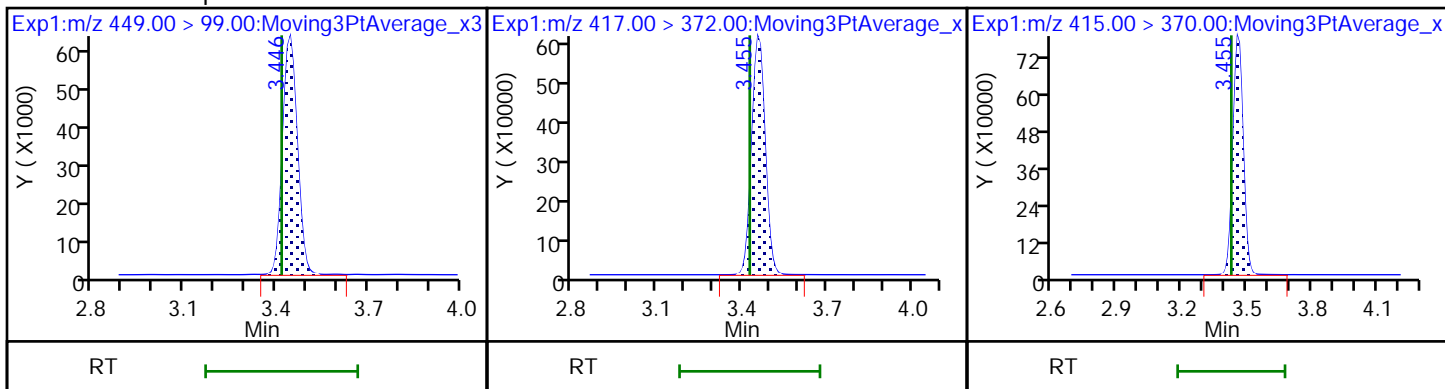
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

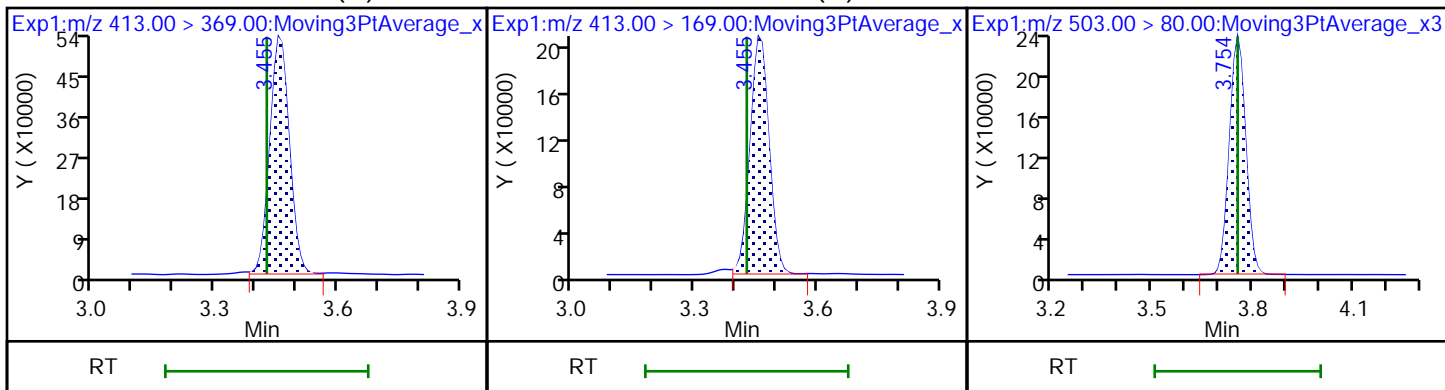
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

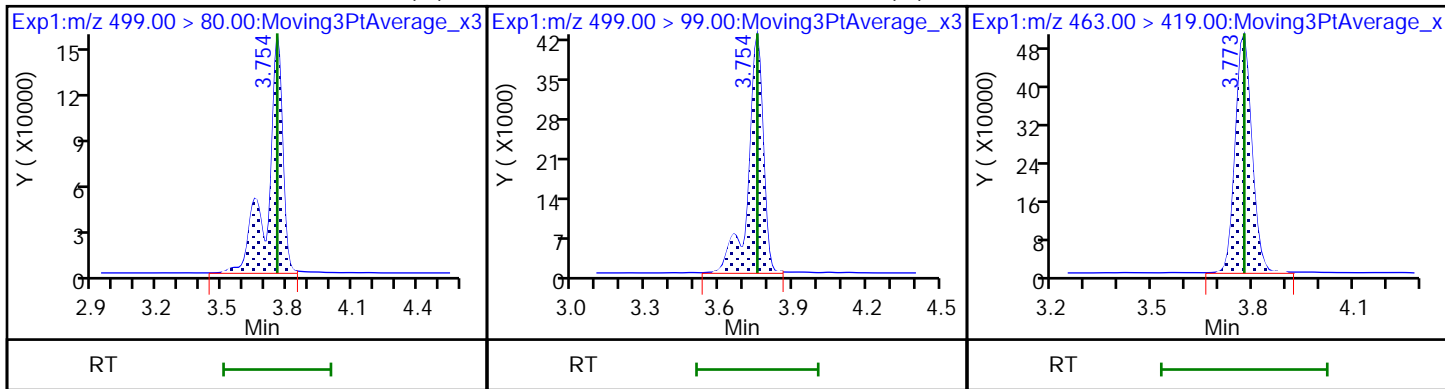
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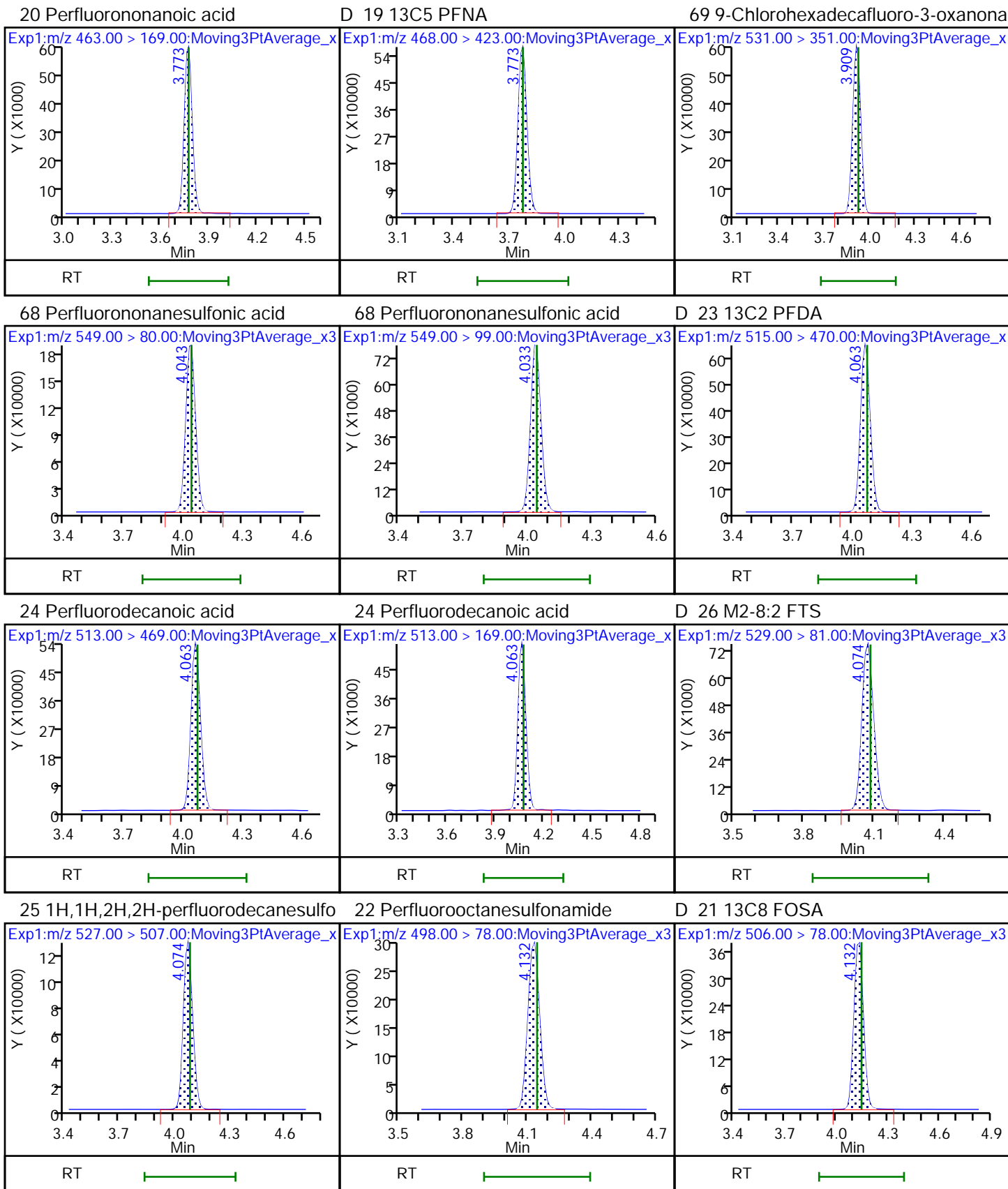


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

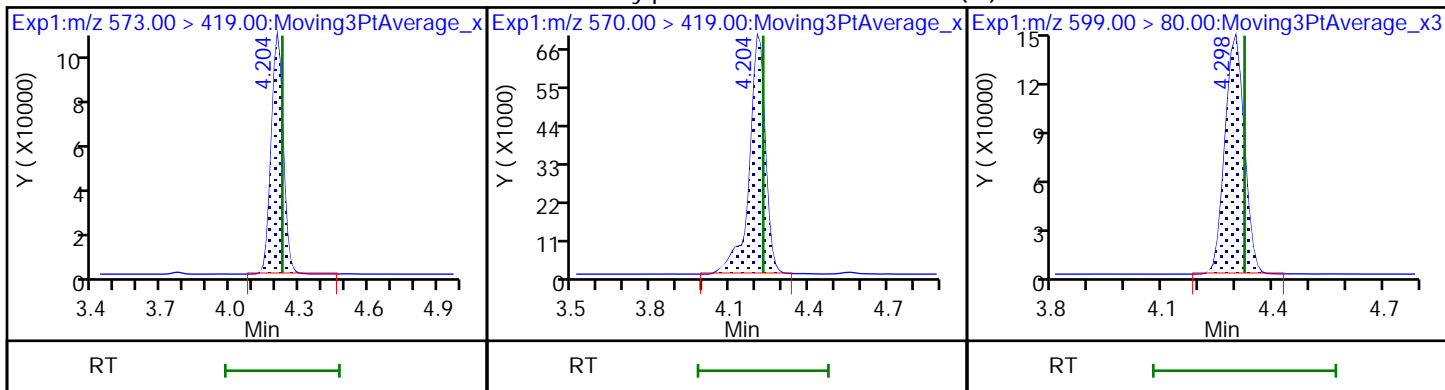
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

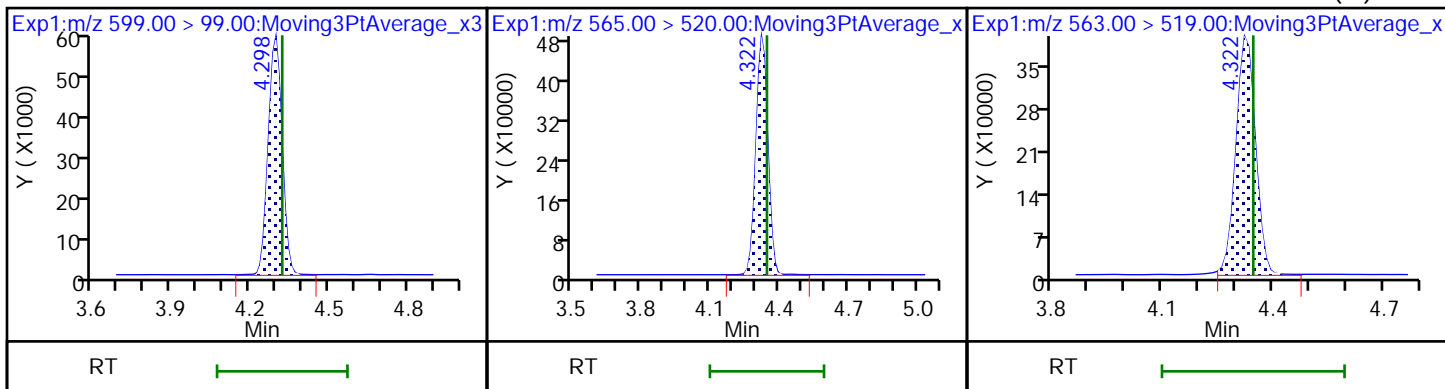
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

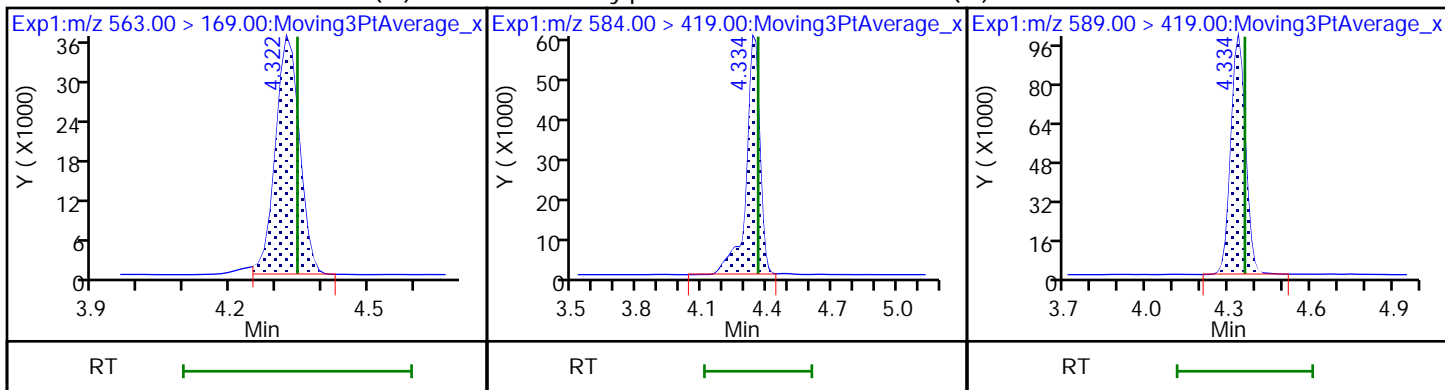
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

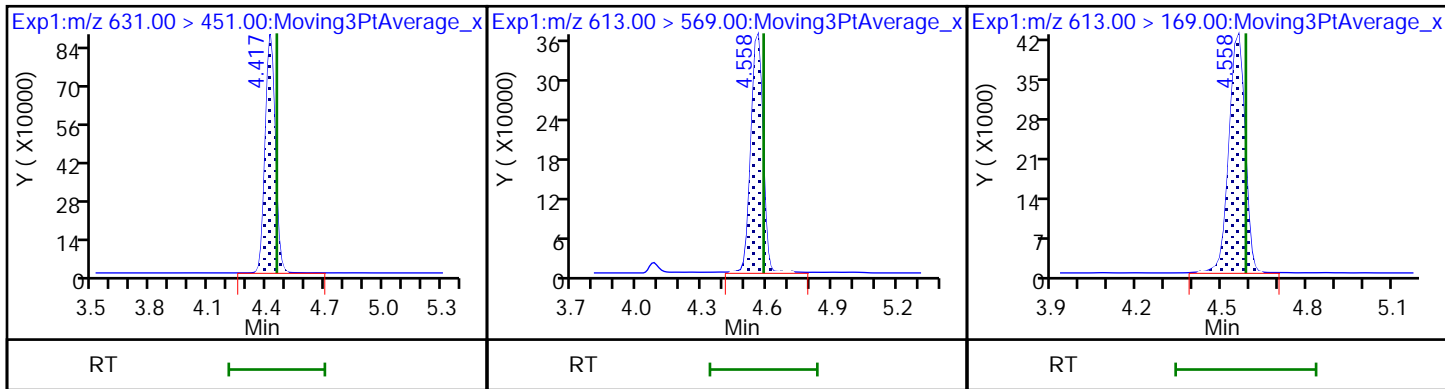
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

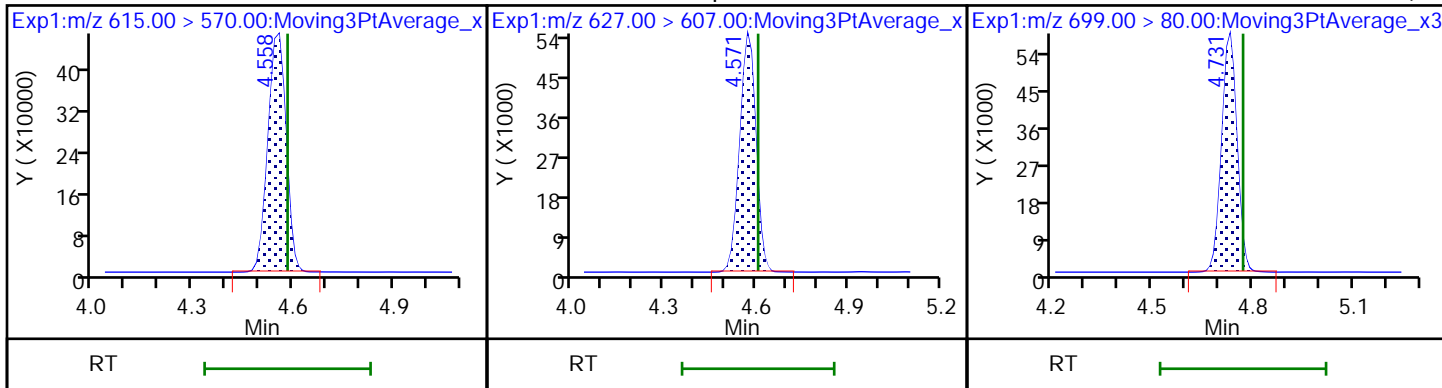
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

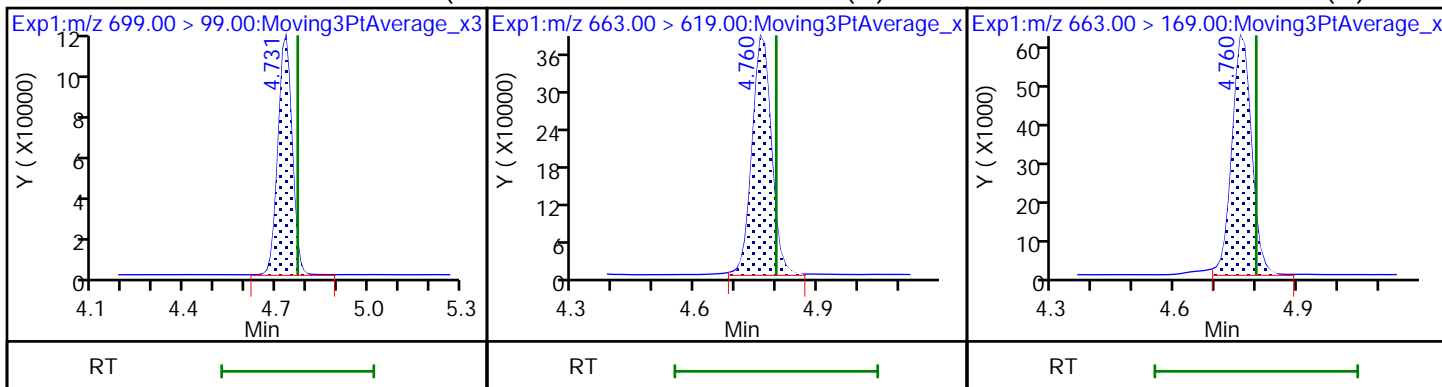
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75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

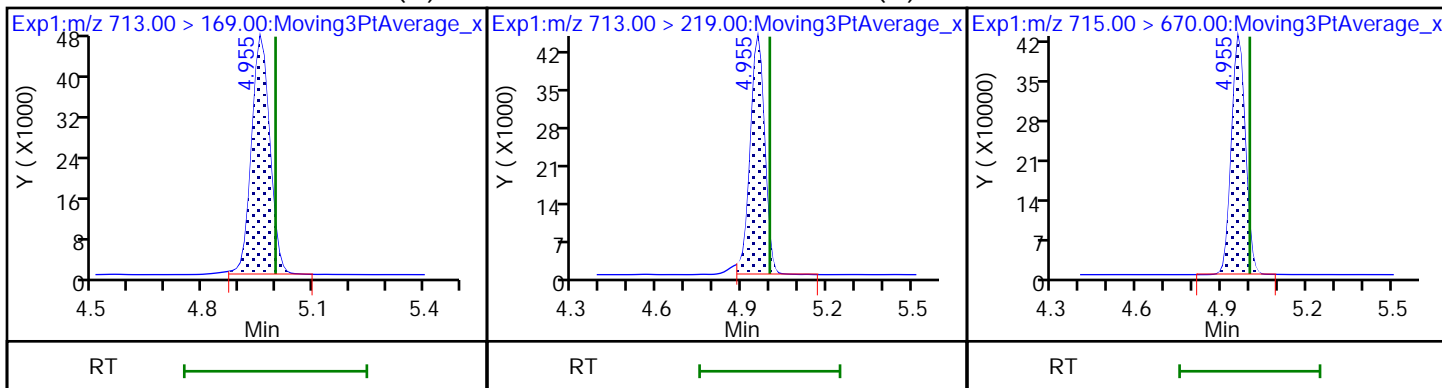
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

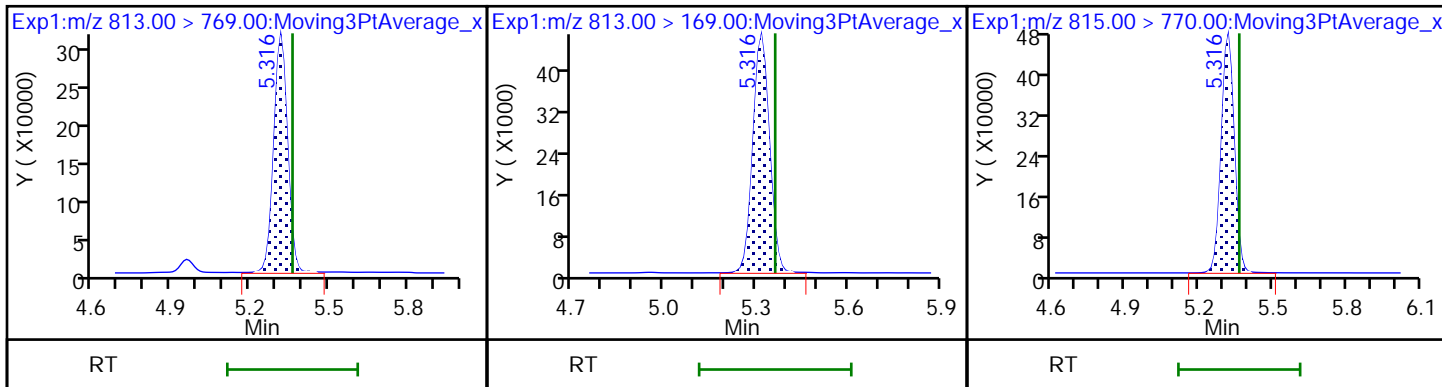
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

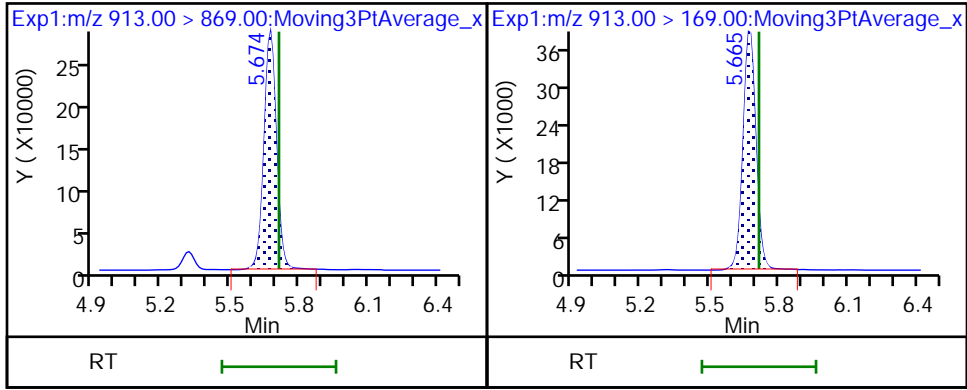
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

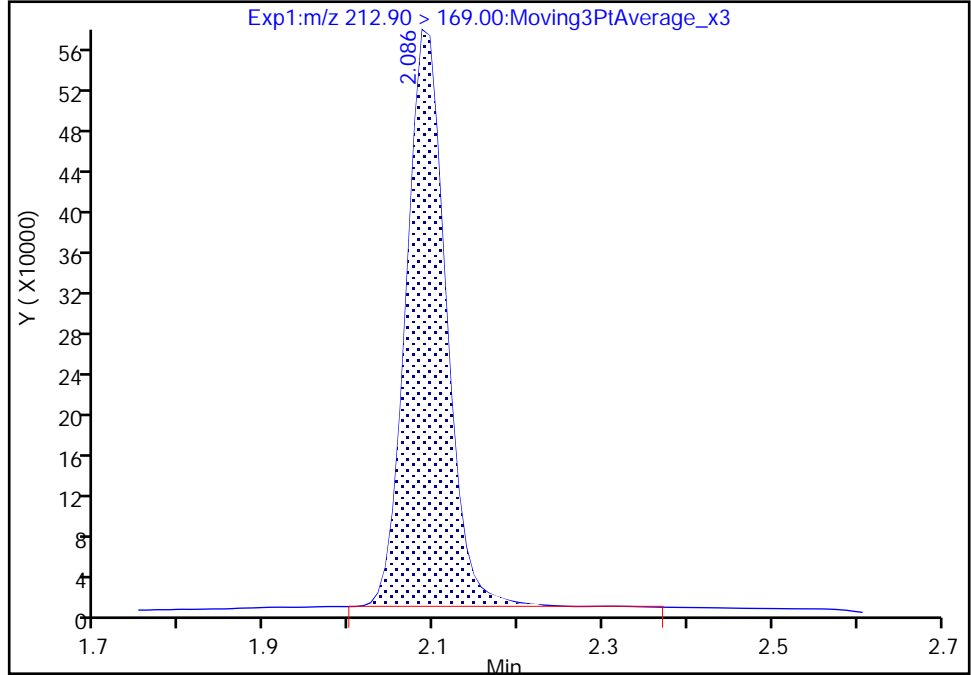
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Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

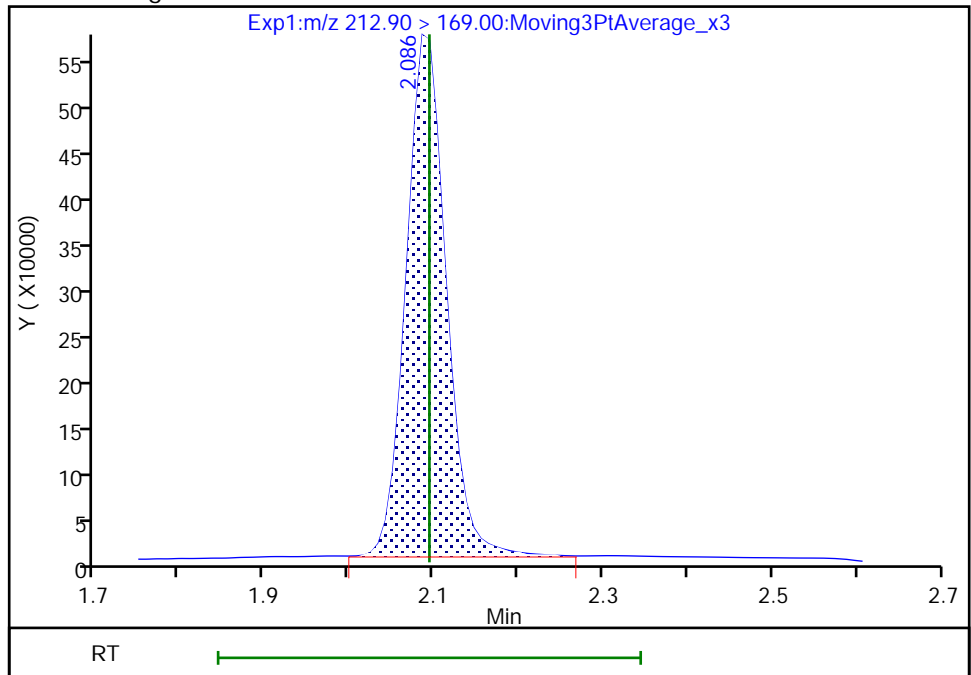
RT: 2.09
Area: 1864342
Amount: 1.114512
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1856636
Amount: 1.109726
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:09:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

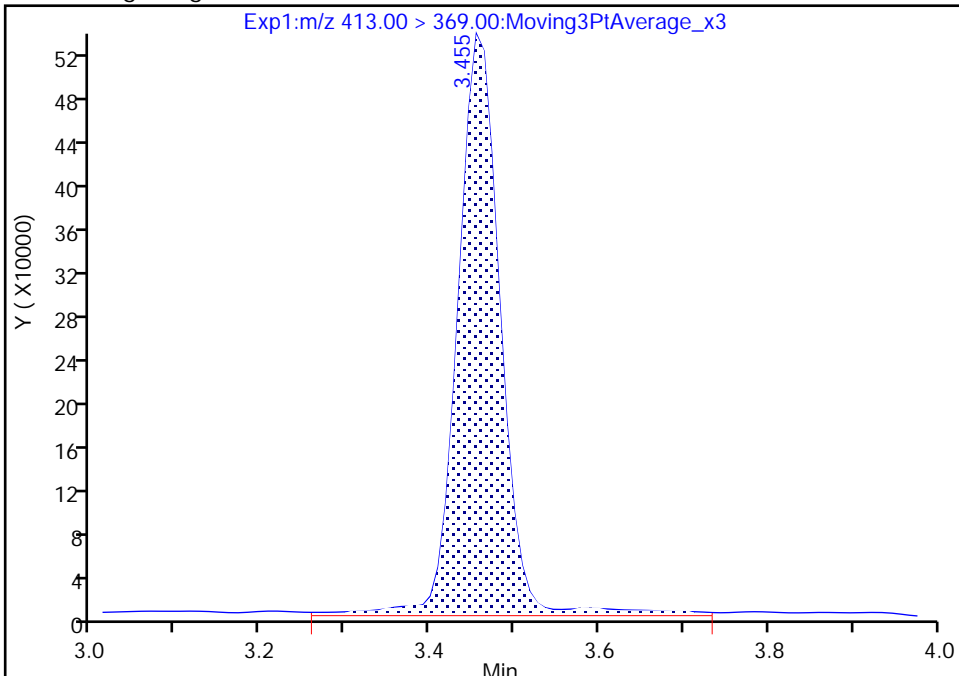
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

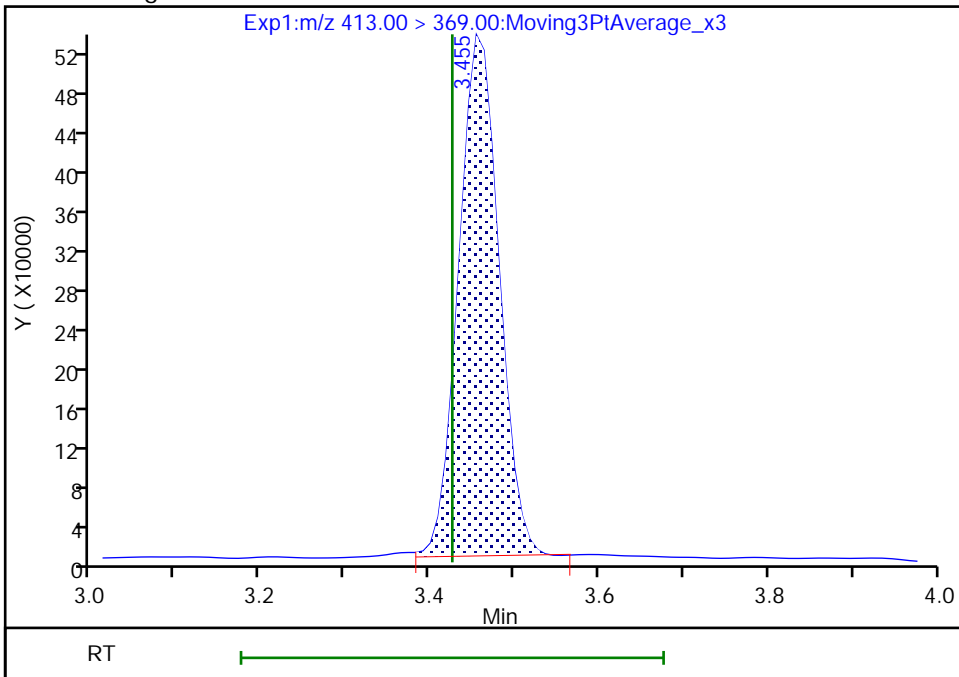
RT: 3.45
Area: 1936680
Amount: 1.088008
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1773585
Amount: 0.996383
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:10:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

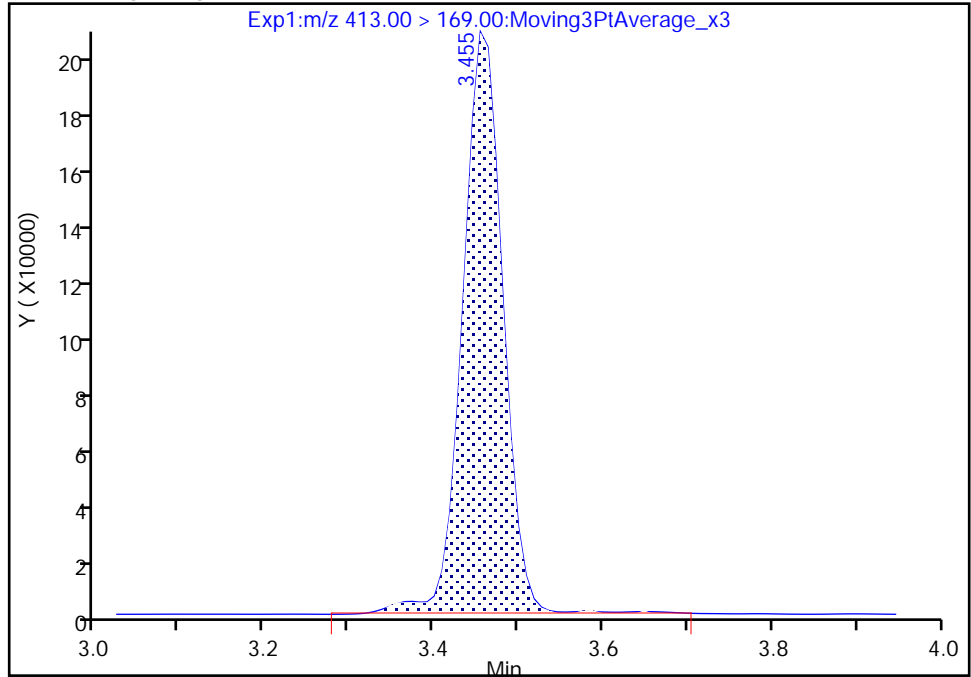
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

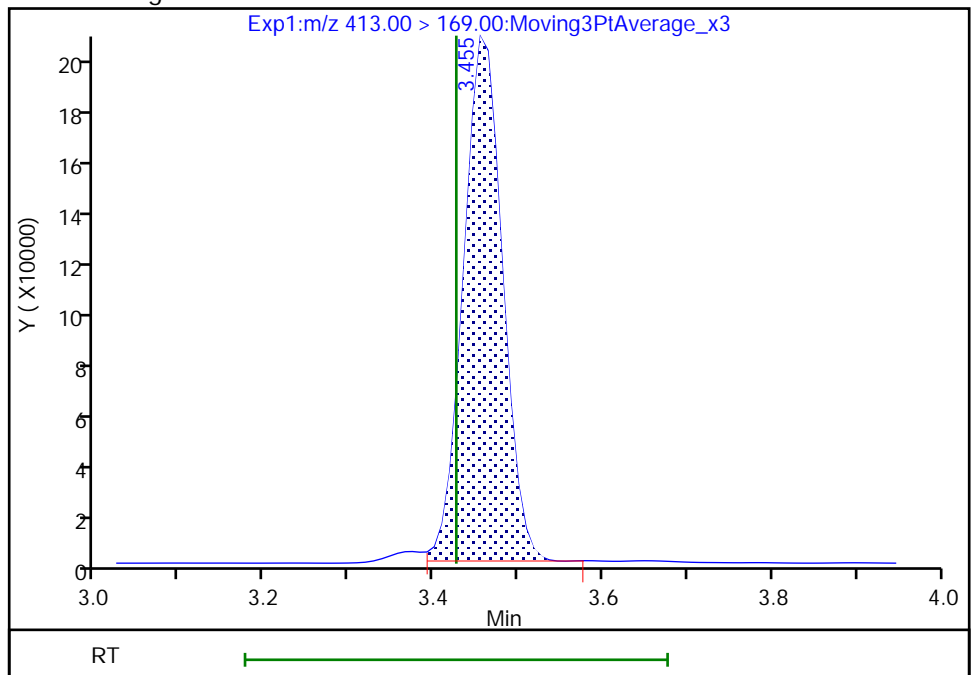
RT: 3.45
Area: 684959
Amount: 1.088008
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 662331
Amount: 0.996383
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:10:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

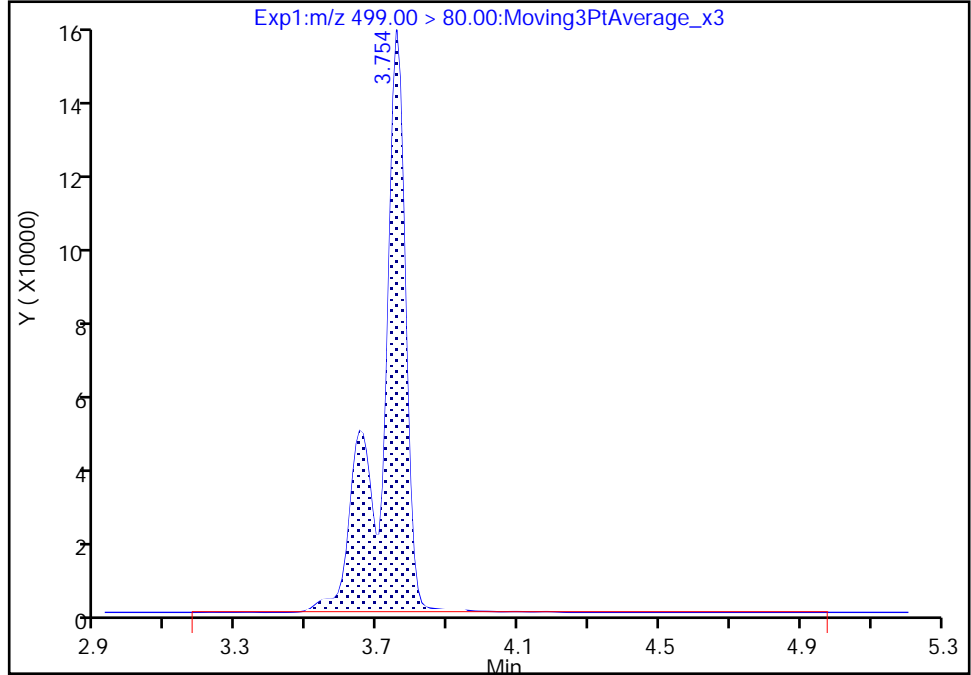
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

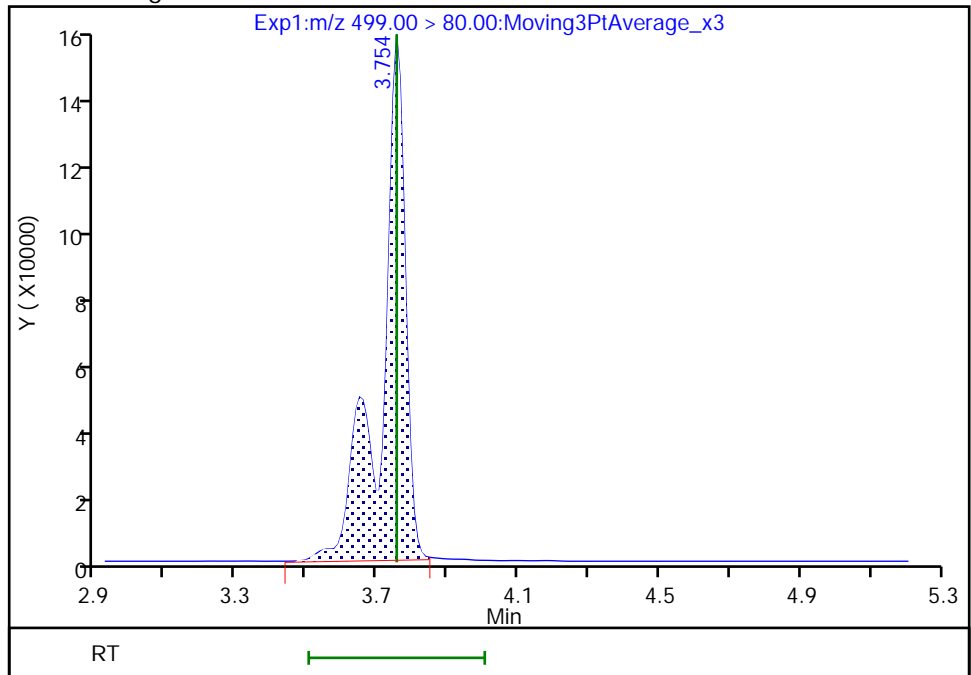
RT: 3.75
Area: 757260
Amount: 0.933521
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 746905
Amount: 0.920756
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

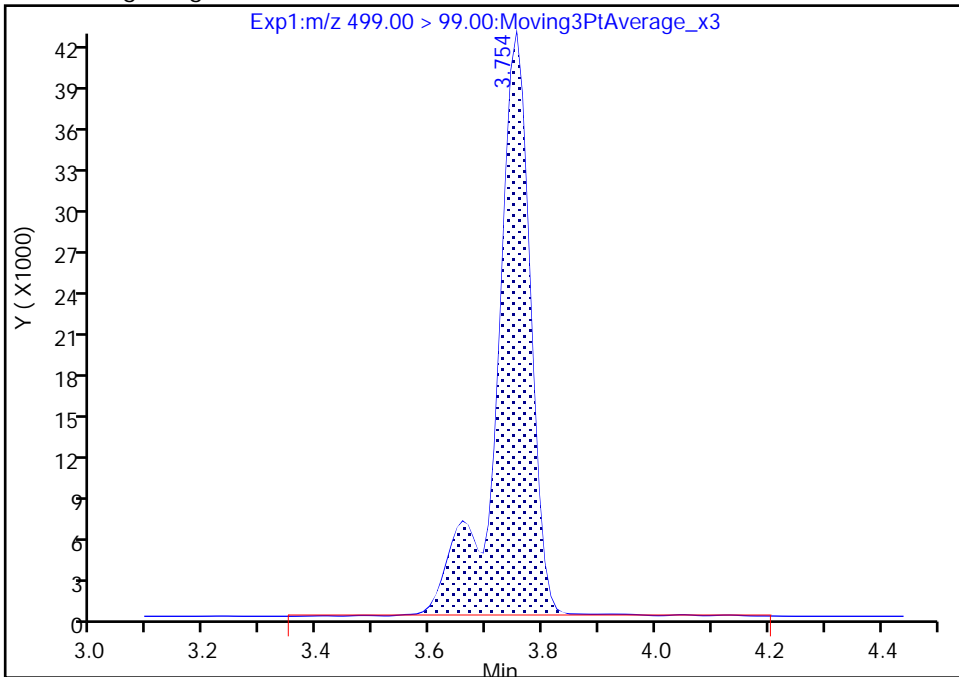
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

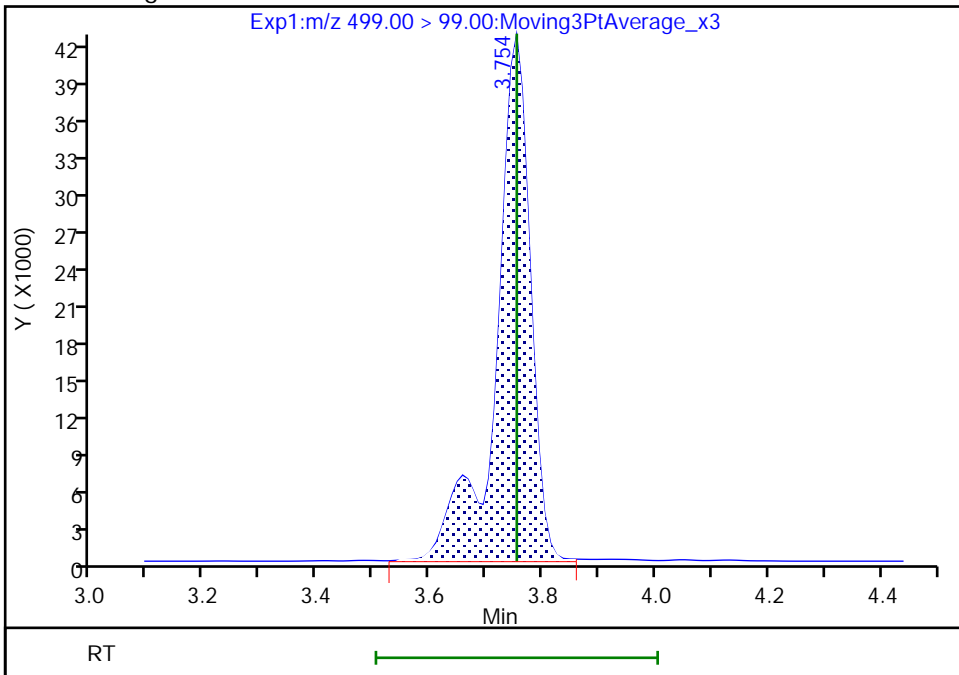
RT: 3.75
Area: 180459
Amount: 0.933521
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 178571
Amount: 0.920756
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

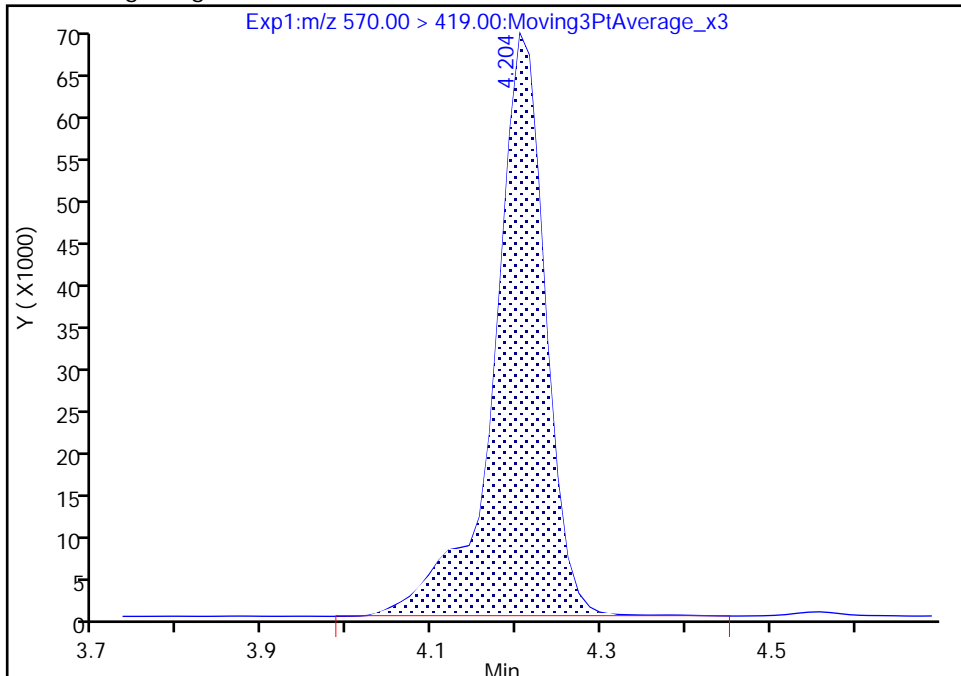
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

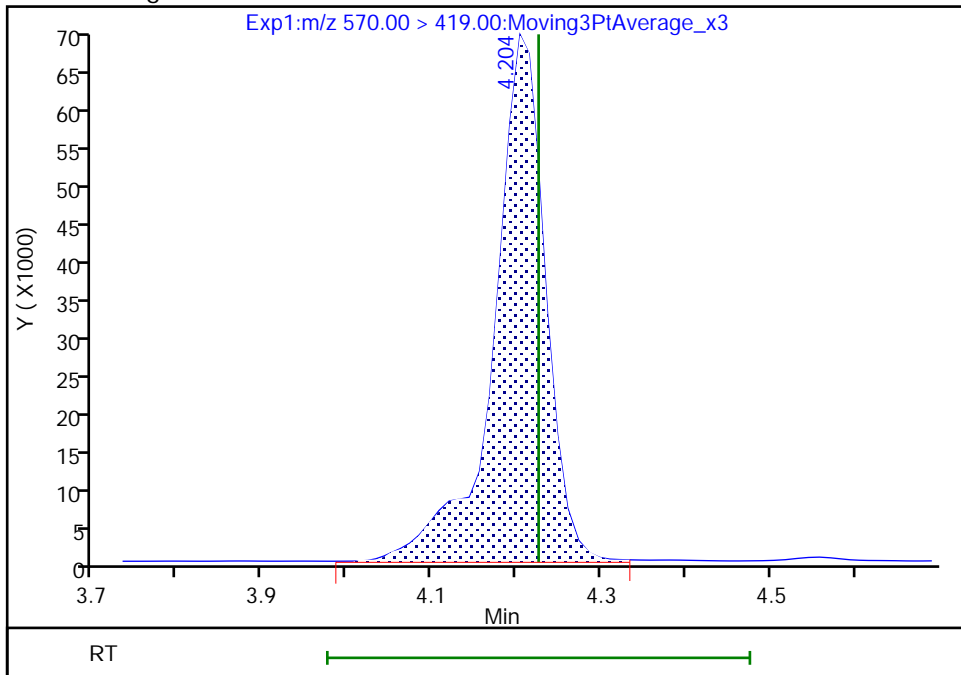
RT: 4.20
Area: 295336
Amount: 1.075247
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 294671
Amount: 1.072826
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

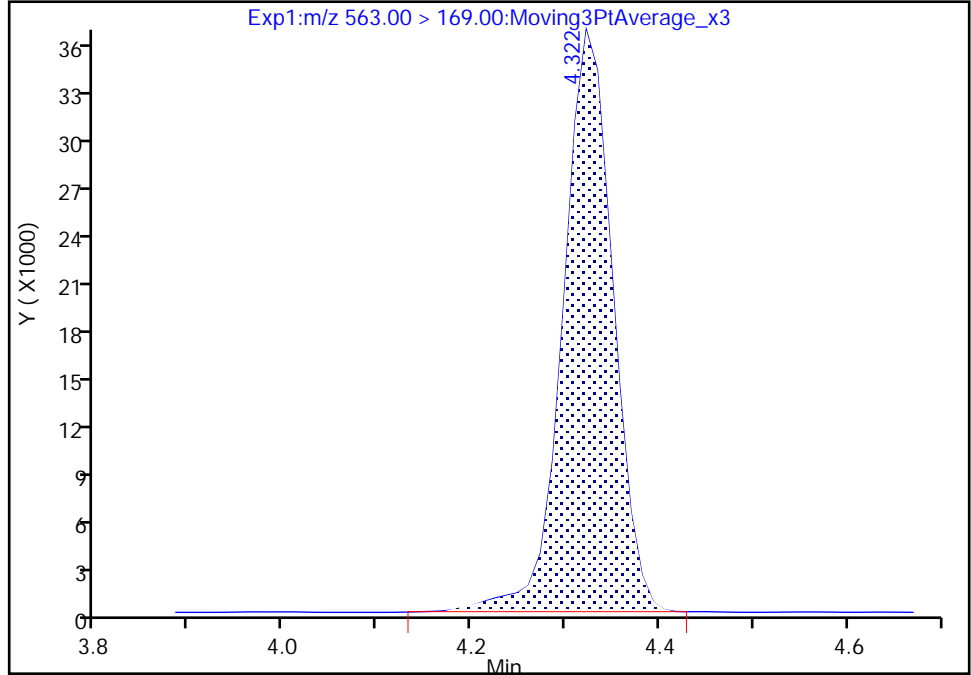
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

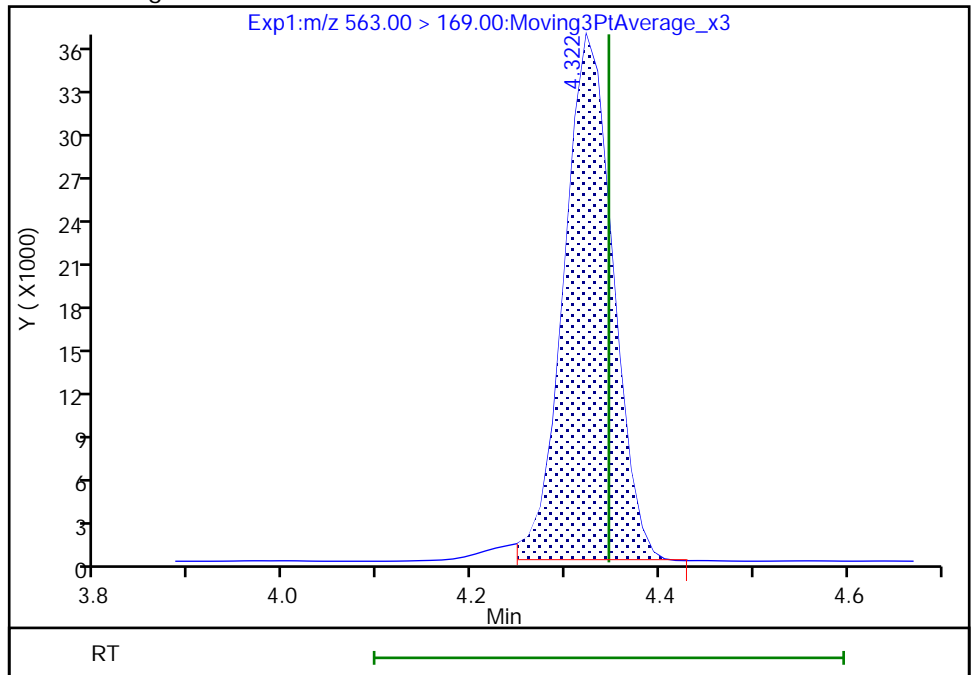
RT: 4.32
Area: 136768
Amount: 0.947932
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 133863
Amount: 0.942590
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 424 of 950

Eurofins Burlington

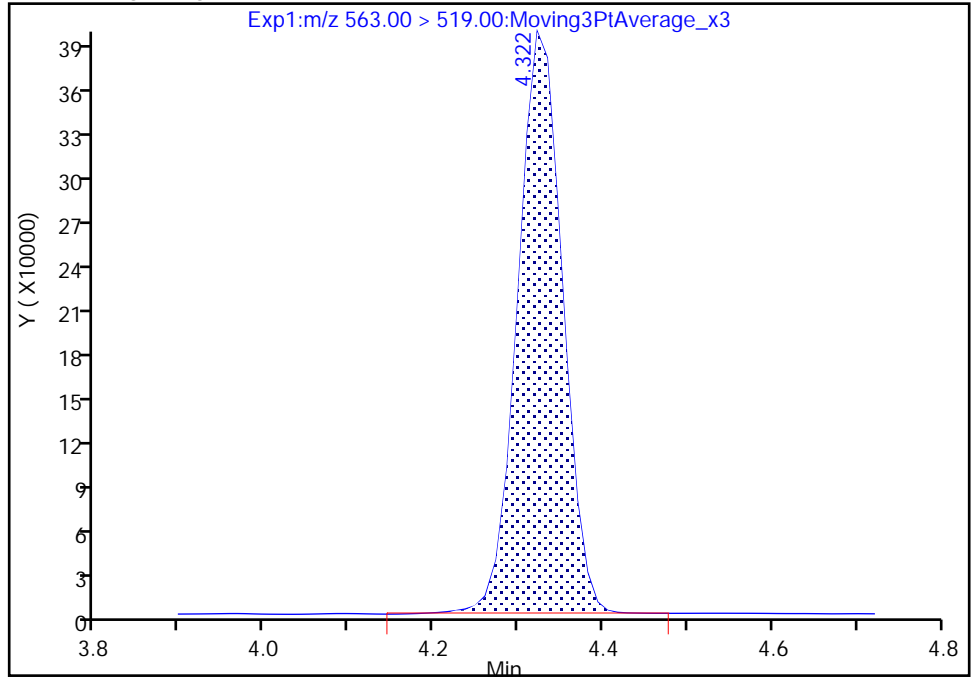
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

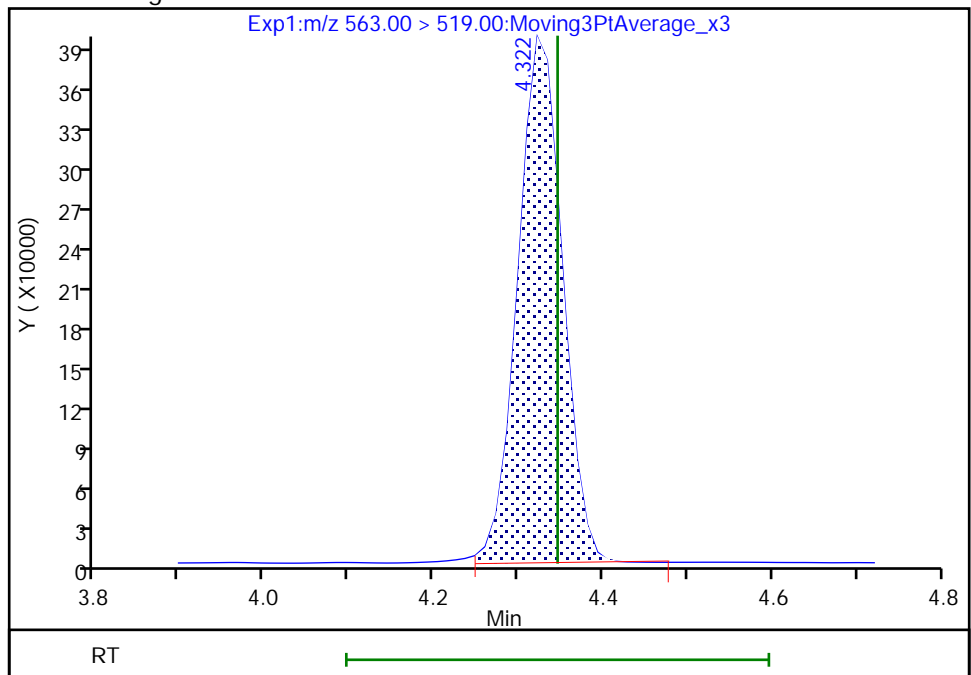
RT: 4.32
Area: 1452171
Amount: 0.947932
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 1443987
Amount: 0.942590
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

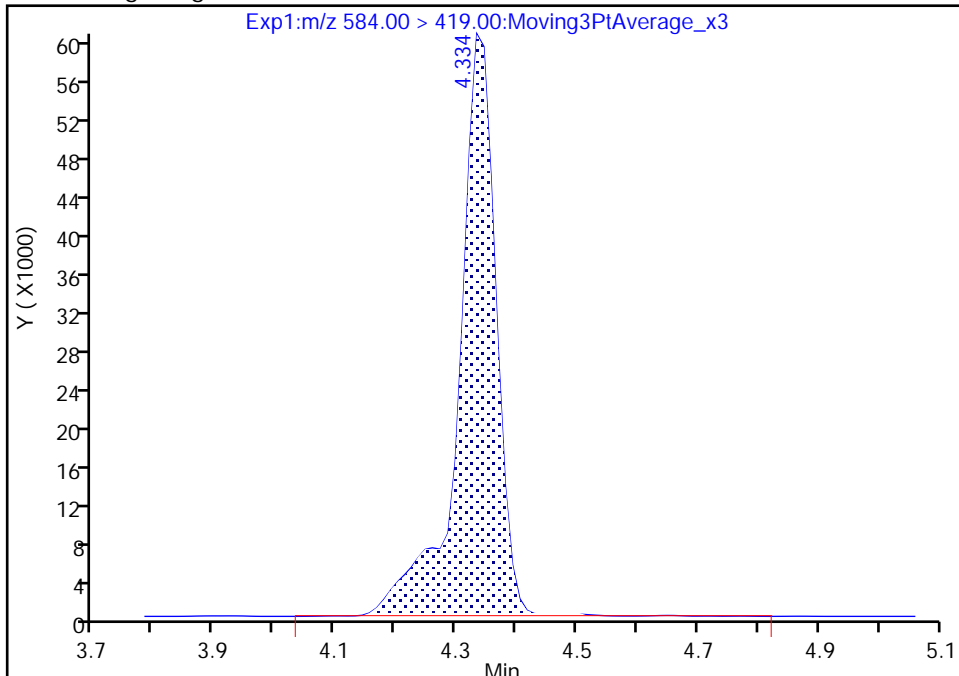
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

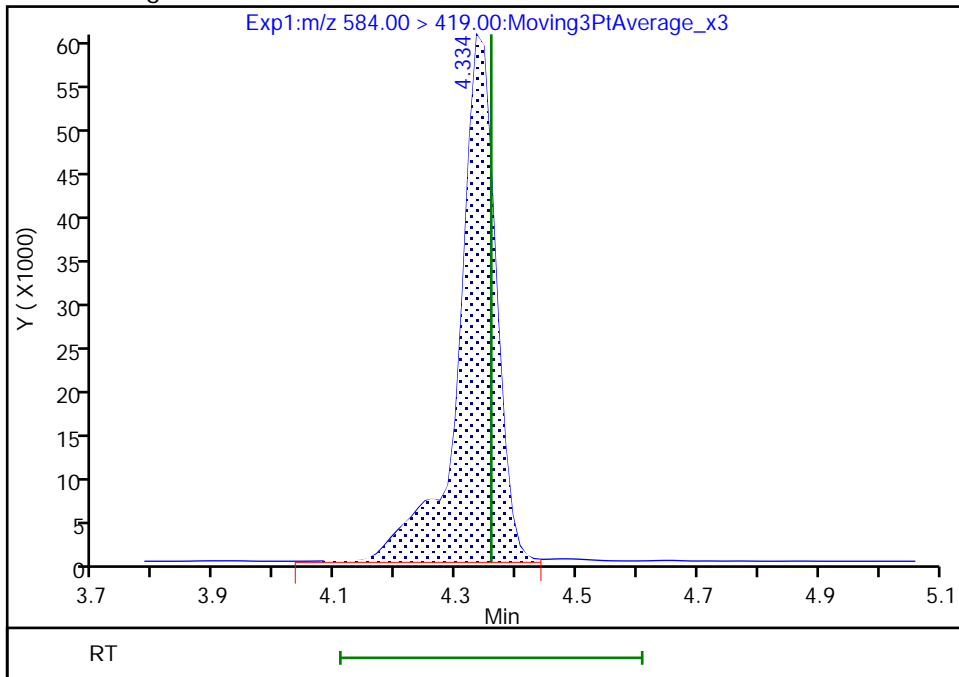
RT: 4.33
Area: 260917
Amount: 0.961464
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 258925
Amount: 0.954123
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

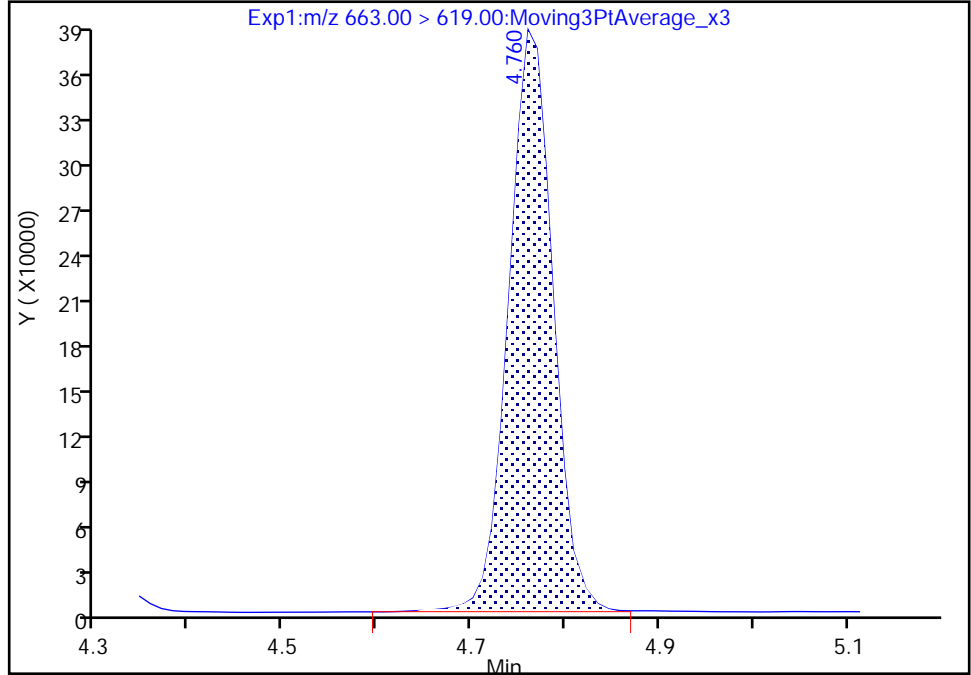
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

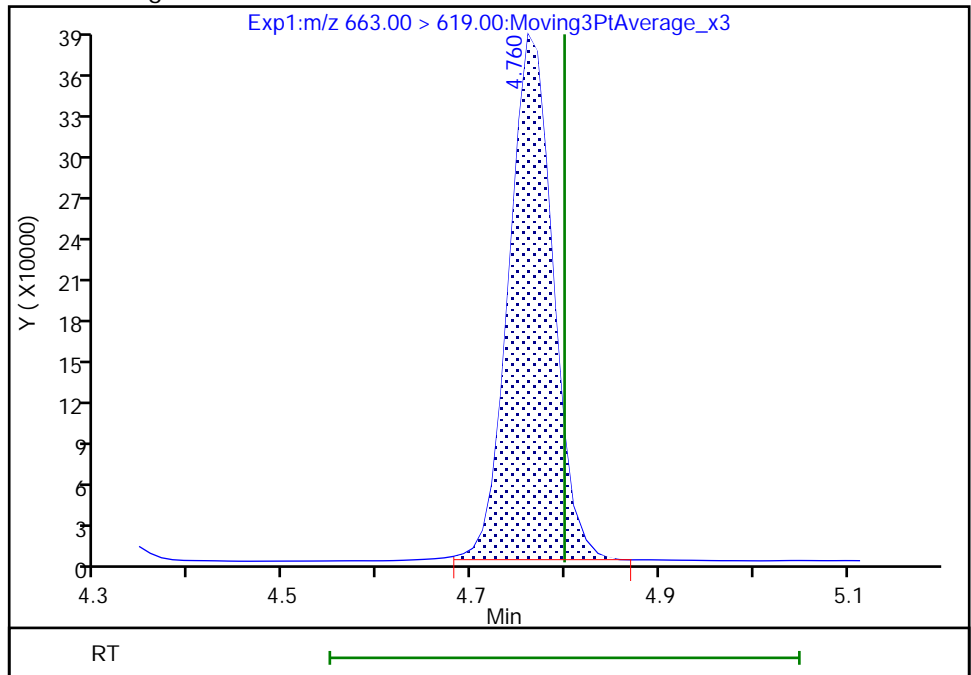
RT: 4.76
Area: 1254248
Amount: 0.881910
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 1249893
Amount: 0.878848
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

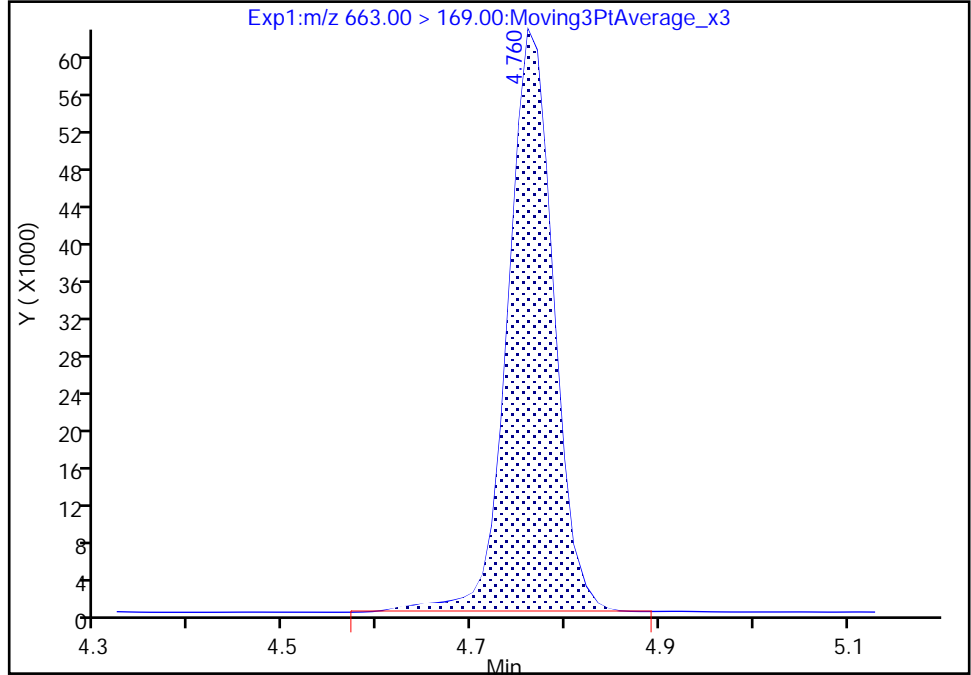
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

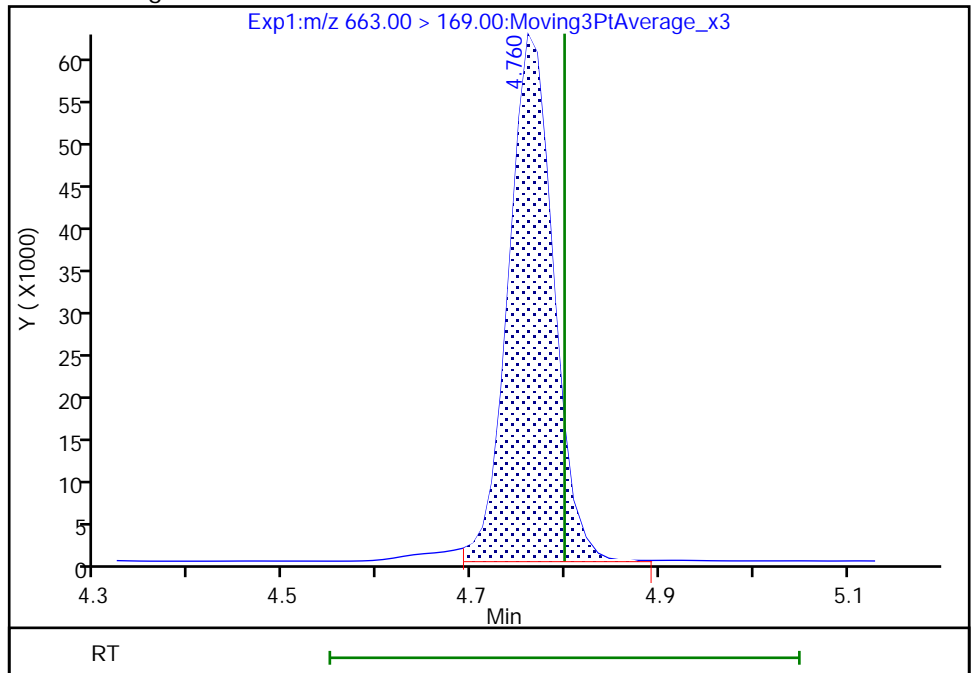
RT: 4.76
Area: 211868
Amount: 0.881910
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 207450
Amount: 0.878848
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

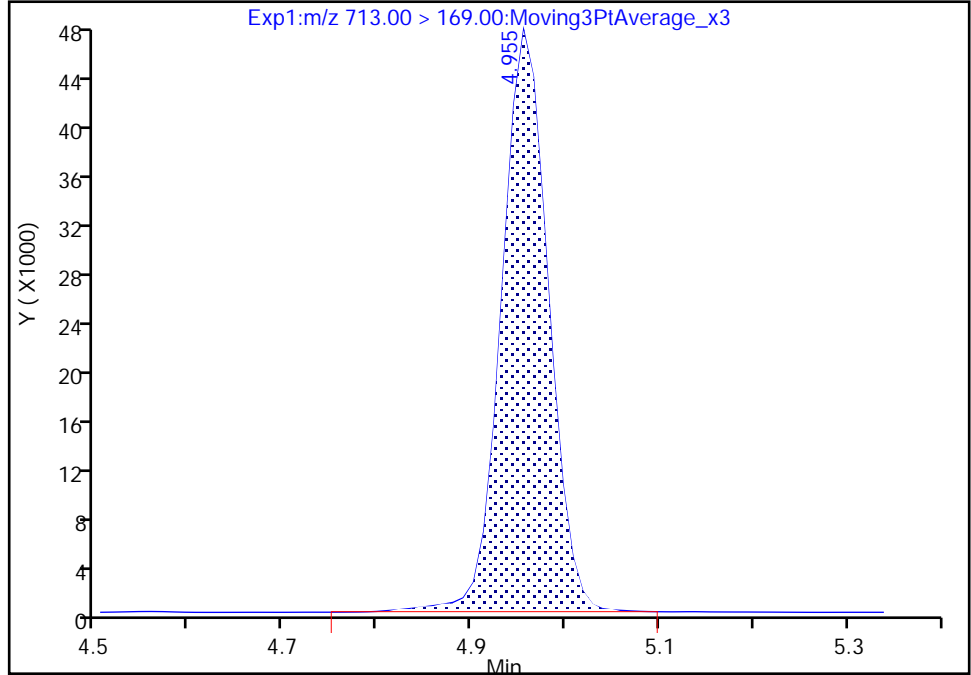
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

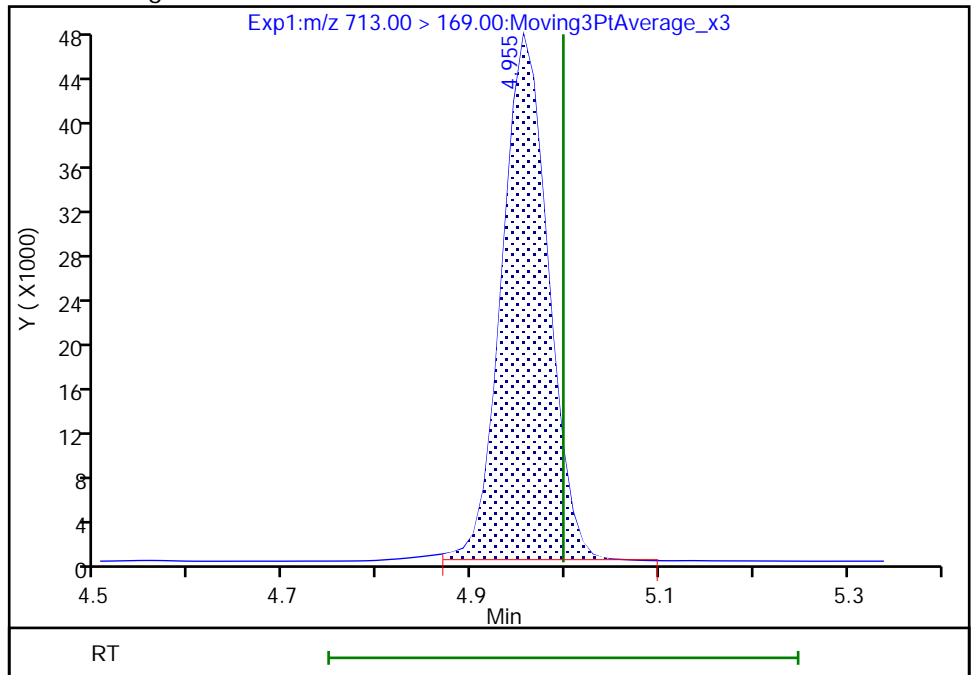
RT: 4.96
Area: 164994
Amount: 1.136170
Amount Units: ng/ml

Processing Integration Results



RT: 4.96
Area: 163657
Amount: 1.126964
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:11:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

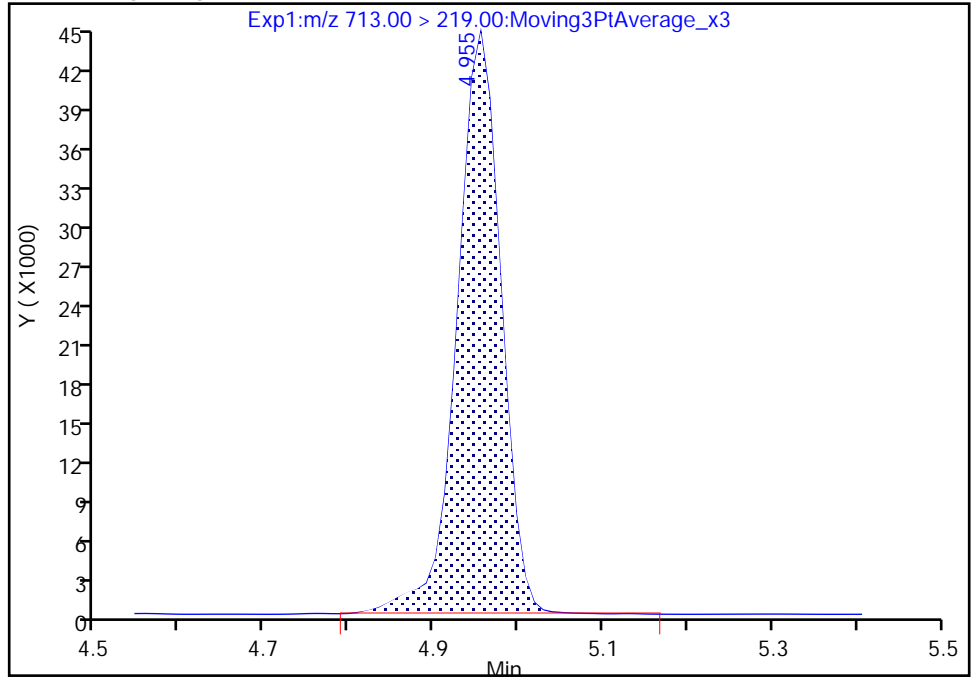
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL12.d
Injection Date: 11-Jan-2023 18:40:11 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

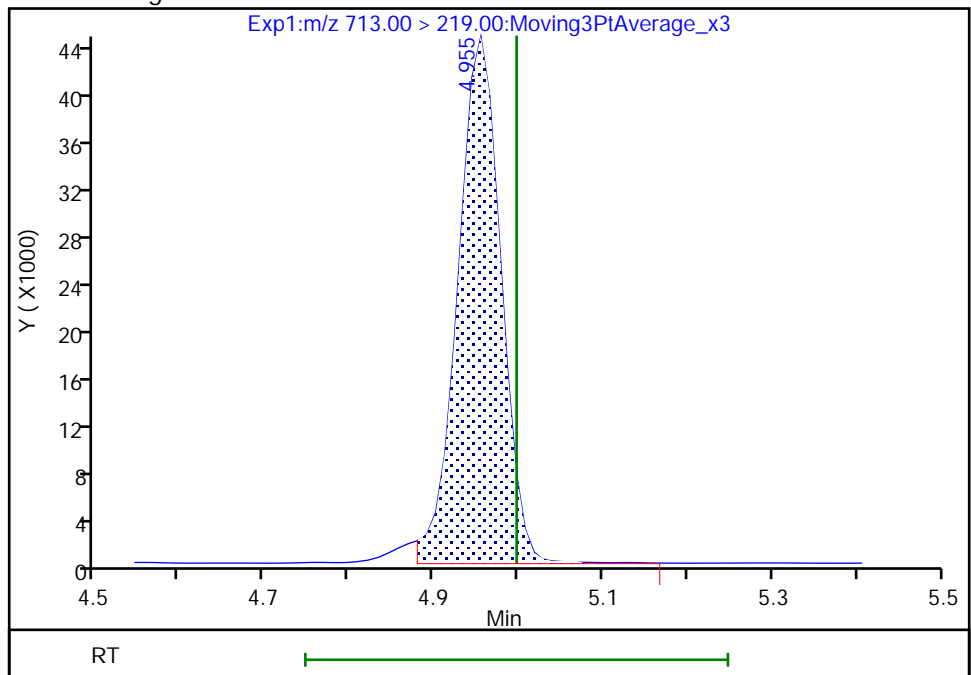
RT: 4.96
Area: 162231
Amount: 1.136170
Amount Units: ng/ml

Processing Integration Results



RT: 4.96
Area: 158305
Amount: 1.126964
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:12:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187747/5 Calibration Date: 01/23/2023 18:02
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		1.237		0.120	0.125	-4.1	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.020		0.0445	0.0500	-11.0	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.108		0.0457	0.0442	3.5	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	2.872		0.0453	0.0467	-3.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.047		0.0497	0.0500	-0.6	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.297		0.0492	0.0469	4.9	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.7528		0.0753	0.100	-24.7	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	1.122		0.0527	0.0500	5.3	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.252		0.0519	0.0455	14.0	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	6.245		0.0513	0.0471	8.9	50.0
6:2 FTS	AveID	2.290	2.279		0.118	0.119	-0.5	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.549		0.0507	0.0476	6.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.207		0.0555	0.0500	10.9	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.445		0.0552	0.0464	19.0	50.0
Perfluorononanoic acid (PFNA)	AveID	1.022	0.9070		0.0444	0.0500	-11.2	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.884		0.0463	0.0466	-0.5	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.8466		0.0403	0.0480	-16.1	50.0
8:2 FTS	AveID	1.814	2.097		0.0554	0.0479	15.6	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.069	1.303		0.0609	0.0500	21.9	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.9846		0.0489	0.0500	-2.1	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.8579		0.119	0.125	-4.9	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7695		0.0493	0.0482	2.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.238		0.0567	0.0500	13.4	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.9448		0.127	0.125	1.7	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	4.890		0.0513	0.0471	9.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.018	1.103		0.0542	0.0500	8.3	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.174		0.0494	0.0482	2.4	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2978		0.0472	0.0484	-2.5	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187747/5 Calibration Date: 01/23/2023 18:02
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	0.9928		0.0488	0.0500	-2.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1186		0.0475	0.0500	-5.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.153		0.0474	0.0500	-5.2	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.6944		0.0429	0.0500	-14.1	50.0
13C4 PFBA	Ave	1.150	1.203		1.31	1.25	4.6	
13C5 PFPeA	Ave	0.9294	1.065		1.43	1.25	14.6	
13C3 PFBS	Ave	1.020	1.003		1.14	1.16	-1.7	
M2-4:2 FTS	Ave	0.0825	0.0831		1.18	1.17	0.8	
13C2 PFHxA	Ave	0.9657	0.9901		1.28	1.25	2.5	
13C3 HFPO-DA	Ave	0.1673	0.1822		1.36	1.25	8.9	
13C4 PFHpA	Ave	0.9669	1.097		1.42	1.25	13.4	
18O2 PFHxS	Ave	0.7424	0.7229		1.15	1.18	-2.6	
M2-6:2 FTS	Ave	0.1170	0.1373		1.39	1.19	17.3	
13C4 PFOA	Ave	1.024	1.055		1.29	1.25	3.0	
13C4 PFOS	Ave	0.4514	0.4873		1.29	1.20	7.9	
13C5 PFNA	Ave	0.998	1.089		1.36	1.25	9.1	
13C2 PFDA	Ave	1.024	1.124		1.37	1.25	9.8	
M2-8:2 FTS	Ave	0.1466	0.1507		1.23	1.20	2.8	
13C8 FOSA	Ave	0.8320	0.8695		1.31	1.25	4.5	
d3-NMeFOSAA	Ave	0.2013	0.2125		1.32	1.25	5.6	
13C2 PFUnA	Ave	0.8836	0.9526		1.35	1.25	7.8	
d5-NEtFOSAA	Ave	0.1934	0.2225		1.44	1.25	15.1	
13C2 PFDoA	Ave	0.8860	1.052		1.48	1.25	18.8	
13C2 PFTeDA	Ave	0.7620	0.8722		1.43	1.25	14.5	
13C2 PFHxDA	Ave	0.9339	1.085		1.45	1.25	16.1	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 23-Jan-2023 18:02:40 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0054082-005 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 24-Jan-2023 17:21:20 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: khanphomeea Date: 24-Jan-2023 10:04:07

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	2.068	2.094	-0.026	0.602	1648488	1.31	105	17340	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.017	1.004	203977	0.1199		95.9	22.3	M
D 3 13C5 PFPeA	267.90 > 223.00	2.370	2.370	0.0	0.690	1459986	1.43	115	8775	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.006	59555	0.0445	89.0	2.5	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	1278246	1.14	98.3	124155	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.397	2.384	0.013	1.000	53867	0.0457	Target=2.10	103	134
298.90 > 99.00	2.397	2.384	0.013	1.000	25438		2.12(1.05-3.15)		40.4	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.005	12227	0.0453	97.0	395	
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.780	106434	1.18	101	205	
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.791	1356986	1.28	103	5835	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.717	2.706	0.011	1.000	56857	0.0497	Target=13.16	99.4	14.8	M
313.00 > 119.00	2.717	2.706	0.011	1.000	4346		13.08(6.58-19.74)		10.5	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.886	48223	0.0492	Target=2.90	105	126
349.00 > 99.00	2.717	2.706	0.011	0.882	16395		2.94(1.45-4.35)		86.9	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.830	2.806	0.024	1.000	15039	0.0753		75.3	288	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	2.830	2.806	0.024	0.824	249706	1.36		109	6703	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.897	937249	1.15		97.4	7056	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.000	45134	0.0519	Target=3.18	114	291	M
399.00 > 99.00	3.080	3.069	0.011	1.000	11874		3.80(1.59-4.77)	47.5		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.080	3.069	0.011	0.897	1502862	1.42		113	7118	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.080	3.069	0.011	1.000	67441	0.0527	Target=4.10	105	19.2	M
363.00 > 169.00	3.091	3.069	0.022	1.004	15732		4.29(2.05-6.16)	65.1		M
77 DONA										
377.00 > 251.00	3.114	3.104	0.010	0.830	157146	0.0513	Target=2.96	109	181	M
377.00 > 85.00	3.126	3.104	0.022	0.833	52447		3.00(1.48-4.44)	211		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.425	3.417	0.008	0.997	178767	1.39		117	1056	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.425	3.417	0.008	1.000	40657	0.1179		99.5	98.1	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.425	3.417	0.008	0.913	39401	0.0507	Target=4.59	106	284	M
449.00 > 99.00	3.416	3.417	-0.001	0.910	8426		4.68(2.30-6.89)	70.6		M
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	1.000	1446547	1.29		103	8299	
* 62 13C2 PFOA										
415.00 > 370.00	3.434	3.426	0.008		1370556	1.25			5009	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.434	3.426	0.008	1.000	69852	0.0555	Target=2.71	111	6.8	M
413.00 > 169.00	3.434	3.426	0.008	1.000	22542		3.10(1.36-4.07)	52.7		M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.093	638434	1.29		108	3300	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.754	-0.001	1.000	35824	0.0552	Target=4.23	119	66.5	M
499.00 > 99.00	3.743	3.754	-0.011	0.997	8124		4.41(2.11-6.34)	56.5		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.003	54160	0.0444	Target=8.78	88.8	12.1	M
463.00 > 169.00	3.773	3.774	-0.001	1.003	7018		7.72(4.39-13.17)	87.6		M
D 19 13C5 PFNA										
468.00 > 423.00	3.763	3.774	-0.011	1.096	1492776	1.36		109	8854	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.909	3.922	-0.013	1.041	71805	0.0463		99.5	424	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.042	4.043	-0.001	1.077	21711	0.0403	Target=2.37	83.9	263	
549.00 > 99.00	4.042	4.043	-0.001	1.077	11032		1.97(1.18-3.55)	153		
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.186	1540949	1.37		110	5122	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	80336	0.0609	Target=11.13	122	37.2	
513.00 > 169.00	4.073	4.074	-0.001	1.000	6324		12.70(5.56-16.69)		79.0	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.073	4.085	-0.012	1.186	197871	1.23		103	1492	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.073	4.085	-0.012	1.000	16595	0.0554		116	242	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	46933	0.0489		97.9	232	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.207	1191718	1.31		105	2673	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.215	4.226	-0.011	1.227	291246	1.32		106	2850	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.215	4.226	-0.011	1.000	24986	0.1189		95.1	61.2	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.322	-0.012	1.148	19815	0.0493	Target=2.45	102	418	M
599.00 > 99.00	4.310	4.322	-0.012	1.148	8493		2.33(1.23-3.68)		181	
D 30 13C2 PFUnA										
565.00 > 520.00	4.334	4.346	-0.012	1.262	1305593	1.35		108	6369	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.003	64627	0.0567	Target=10.33	113	23.7	
563.00 > 169.00	4.346	4.346	0.0	1.003	4941		13.08(5.17-15.50)		117	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.003	28819	0.1271		102	334	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.346	4.358	-0.012	1.266	305014	1.44		115	847	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	123038	0.0513		109	505	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	63624	0.0542	Target=8.10	108	11.5	
613.00 > 169.00	4.583	4.584	-0.001	1.000	6274		10.14(4.05-12.15)		81.5	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.335	1442000	1.48		119	5960	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.594	4.606	-0.012	1.128	9354	0.0494		102	267	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.268	7700	0.0472	Target=0.51	97.5	243	
699.00 > 99.00	4.760	4.770	-0.010	1.268	15329		0.50(0.26-0.77)		398	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.789	4.799	-0.010	1.045	57264	0.0488	Target=6.06	97.6	9.3	M
663.00 > 169.00	4.789	4.799	-0.010	1.045	8310		6.89(3.03-9.09)		118	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.994	4.998	-0.004	1.000	5673	0.0475	Target=0.83	95.0	127	M
713.00 > 219.00	4.983	4.998	-0.015	0.998	7111		0.80(0.42-1.25)		102	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.454	1195412	1.43		114	5239	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.349	5.362	-0.013	1.000	68527	0.0474	Target=6.74	94.8	12.7	
813.00 > 169.00	5.349	5.362	-0.013	1.000	9661		7.09(3.37-10.11)		153	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.349	5.362	-0.013	1.558	1486413	1.45		116	8470	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.691	5.711	-0.020	1.064	41288	0.0429	Target=6.99	85.9	11.1	M
913.00 > 169.00	5.691	5.711	-0.020	1.064	5815		7.10(3.50-10.49)		140	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00024

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d

Injection Date: 23-Jan-2023 18:02:40

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: LC812user

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

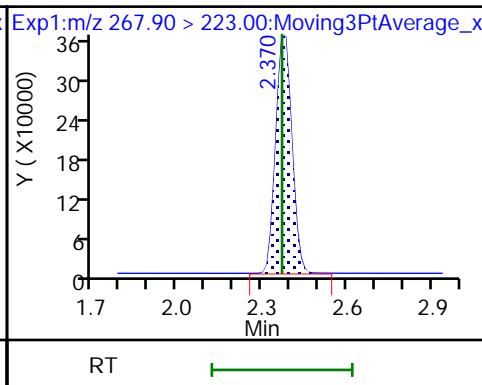
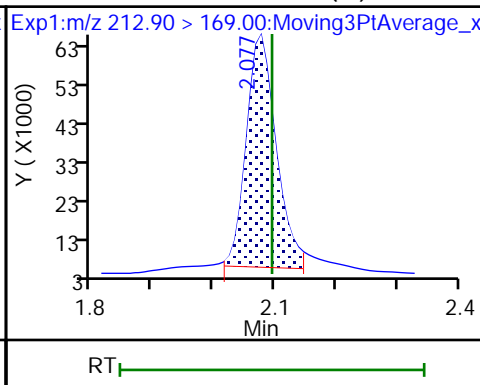
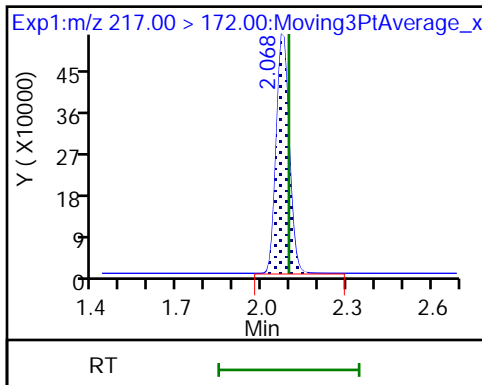
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

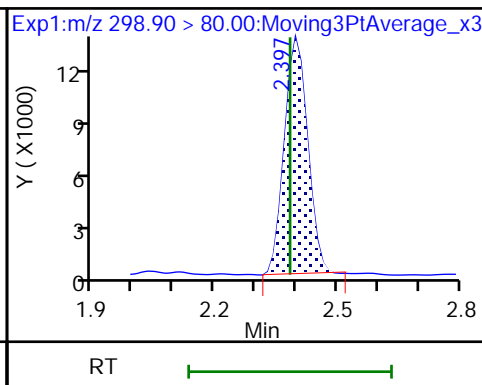
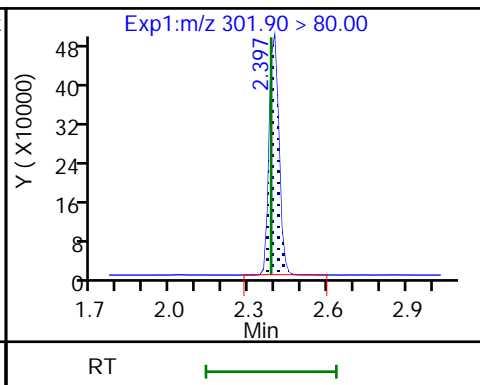
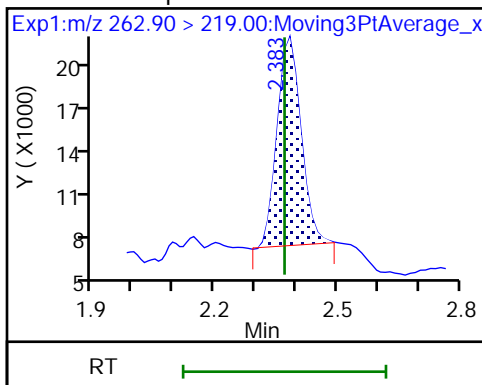
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

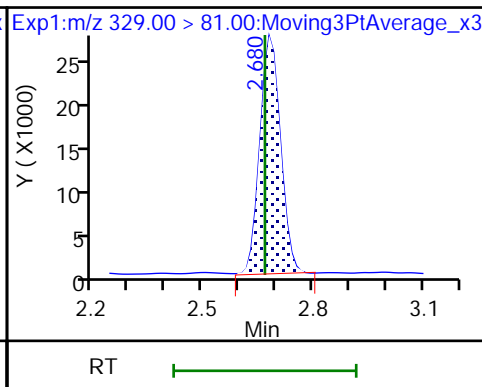
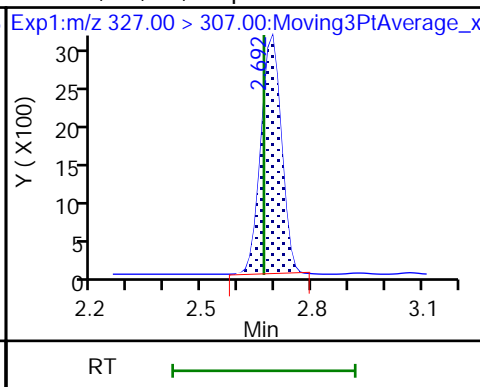
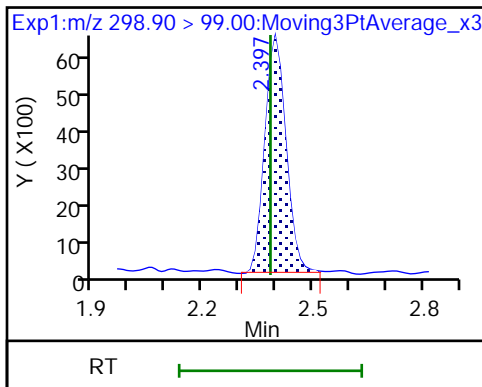
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

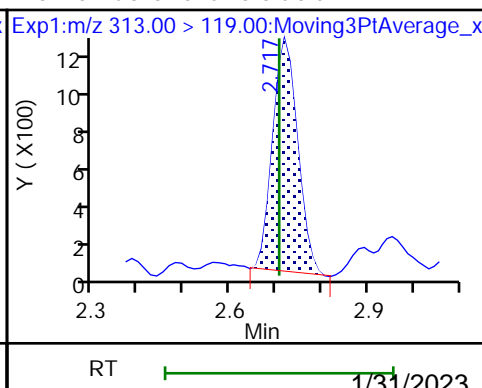
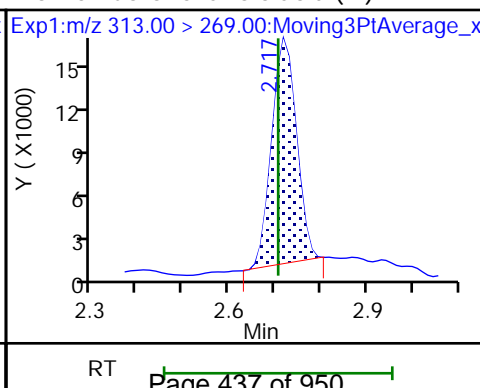
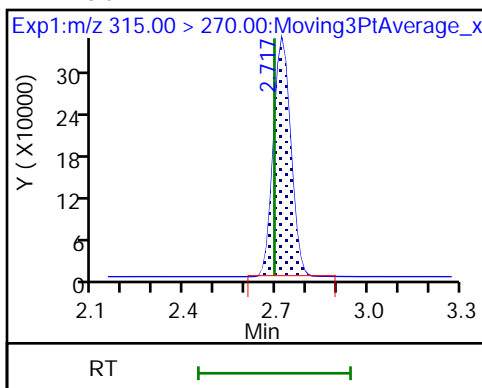
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

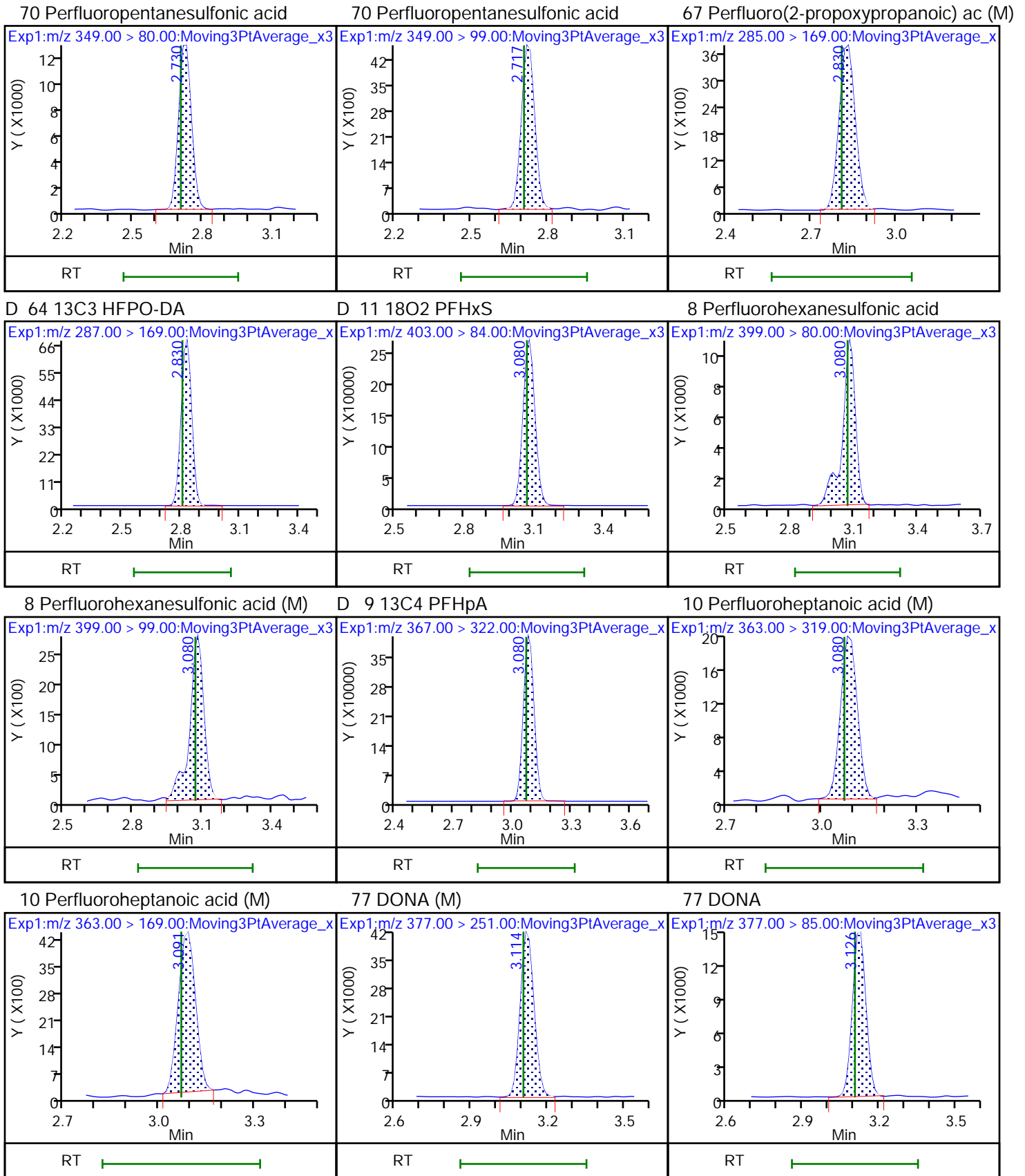


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

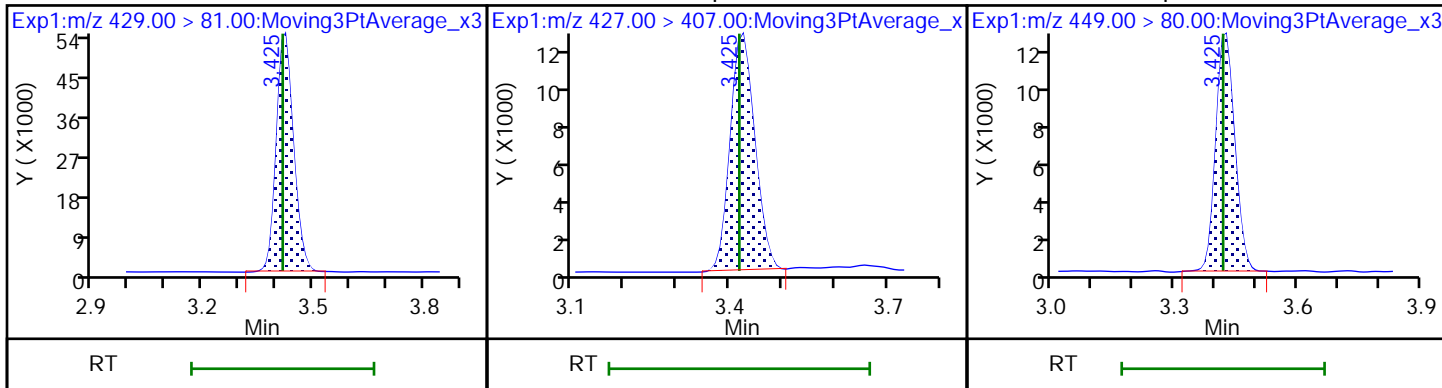




D 12 M2-6:2 FTS

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

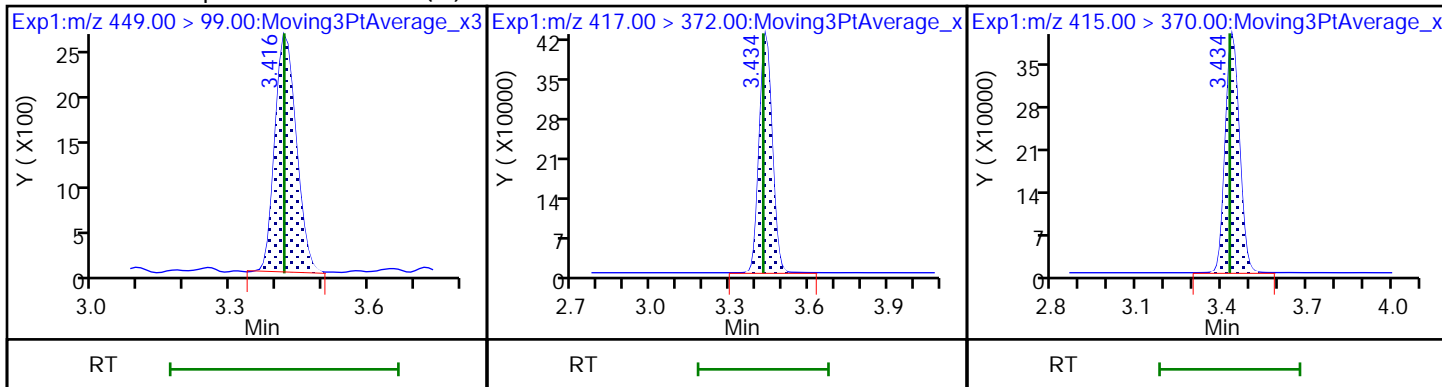
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

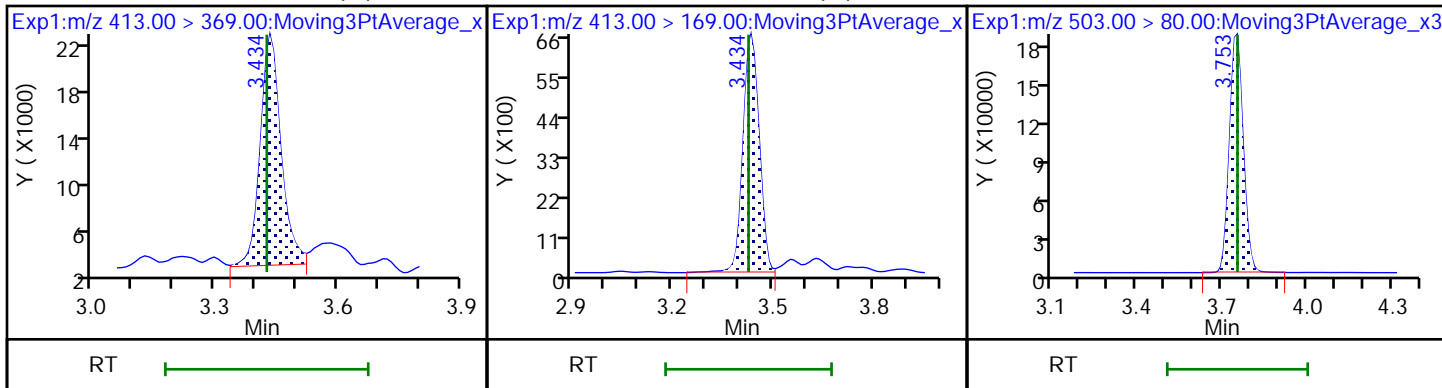
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

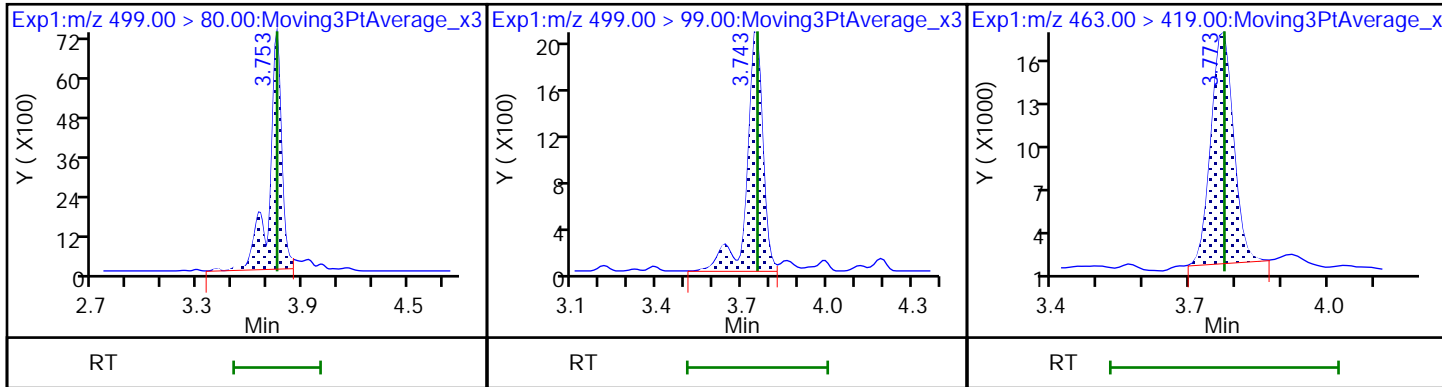
D 18 13C4 PFOS

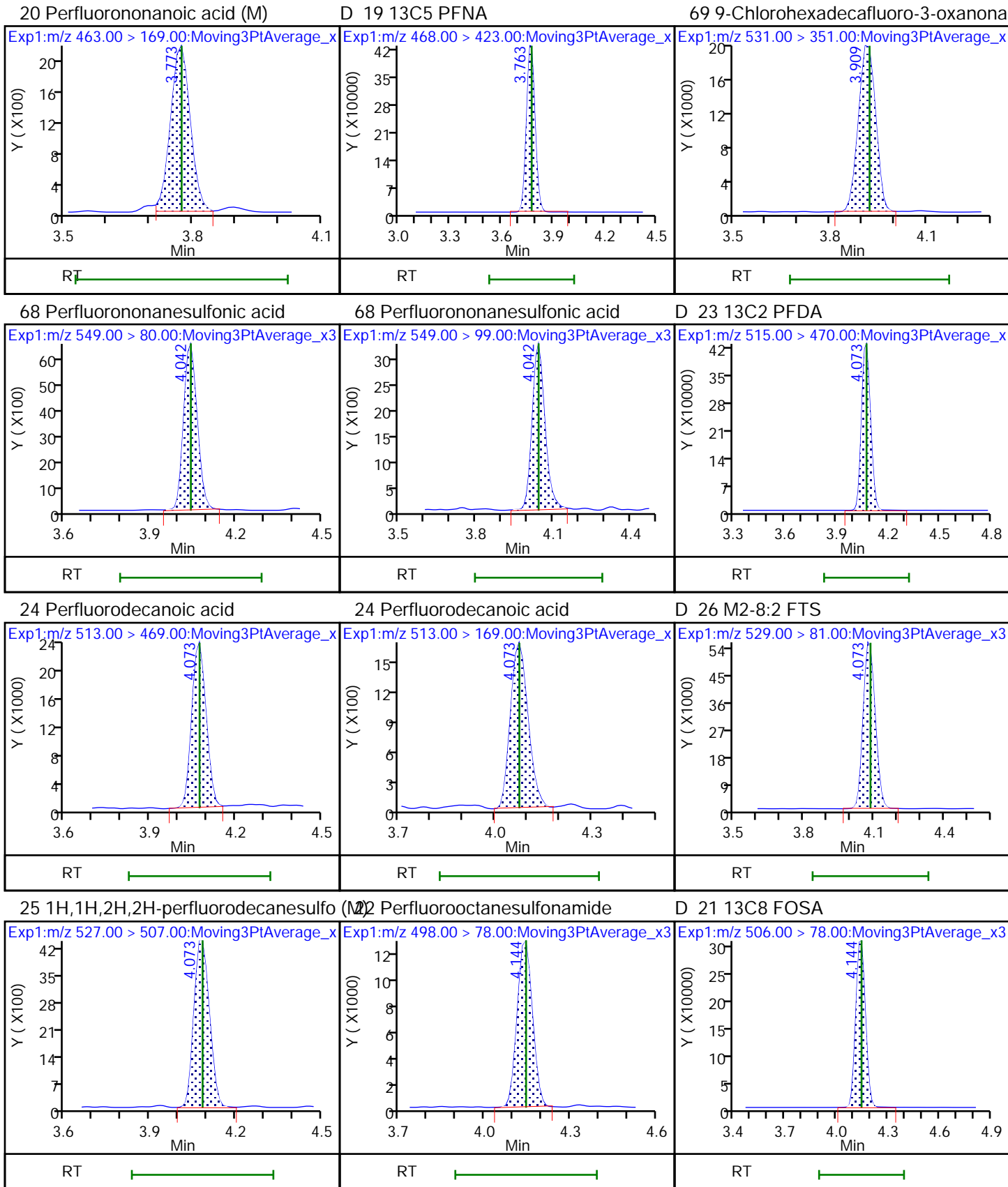


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

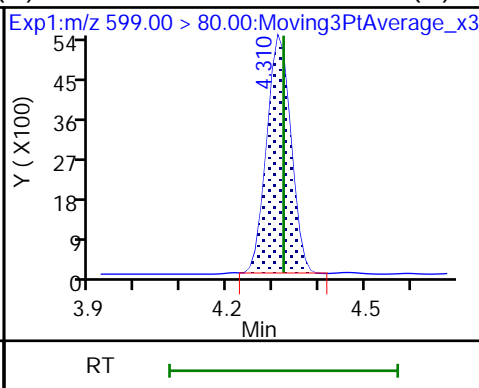
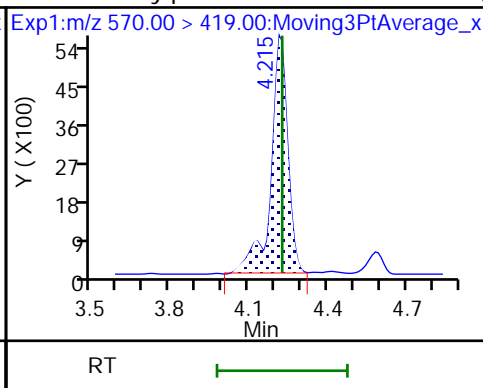
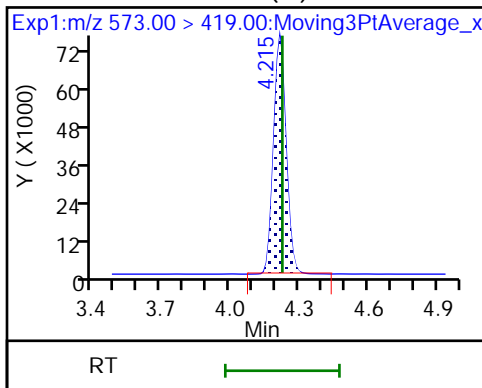




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

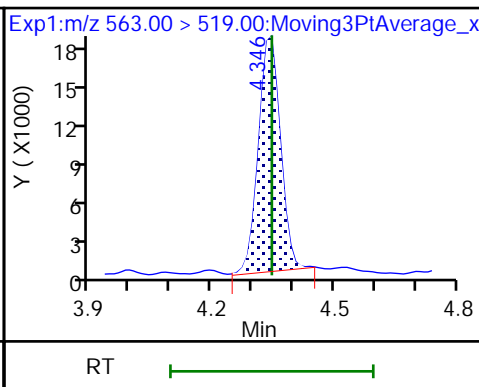
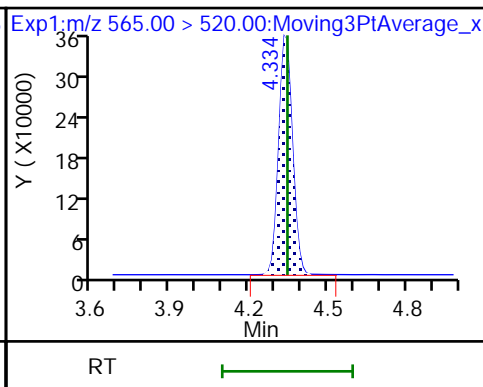
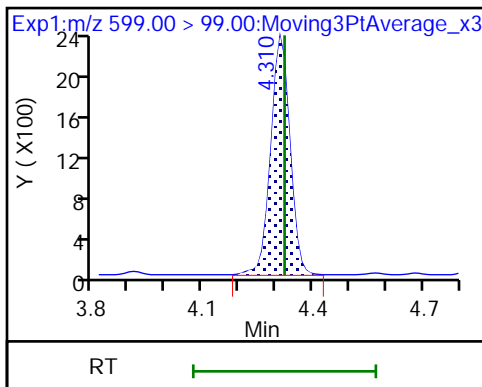
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

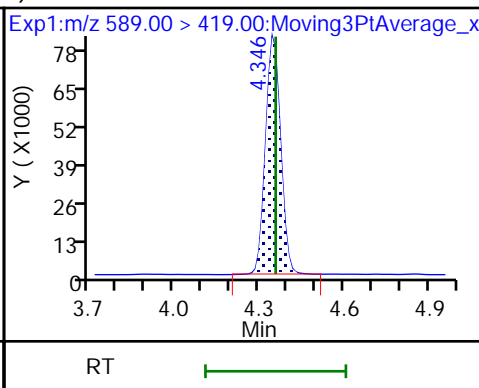
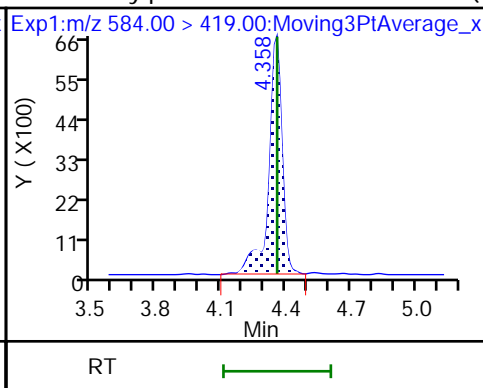
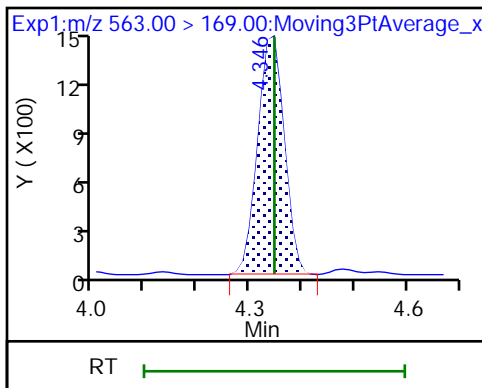
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

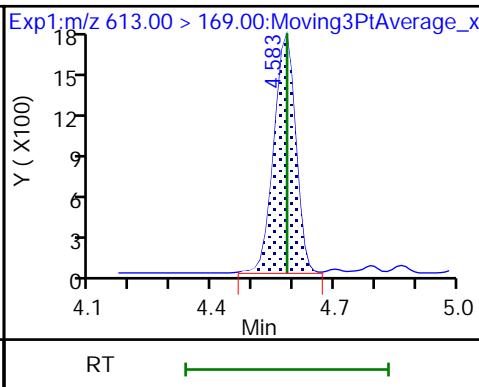
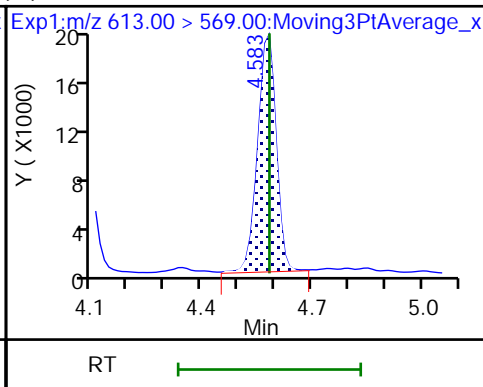
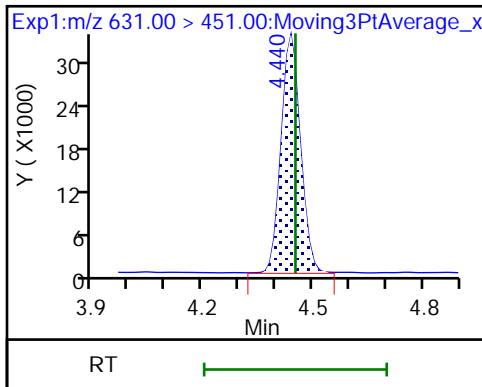
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec (M)

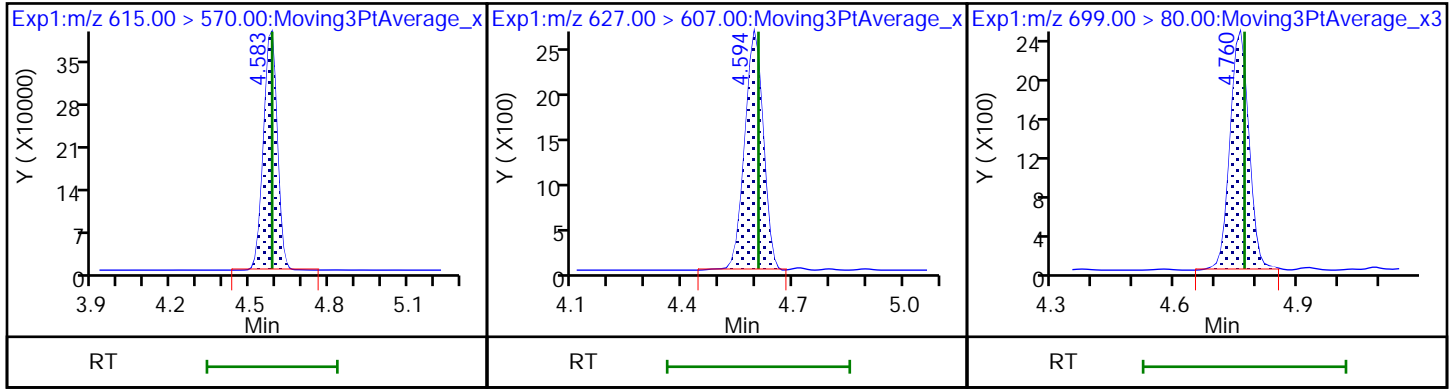
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDa

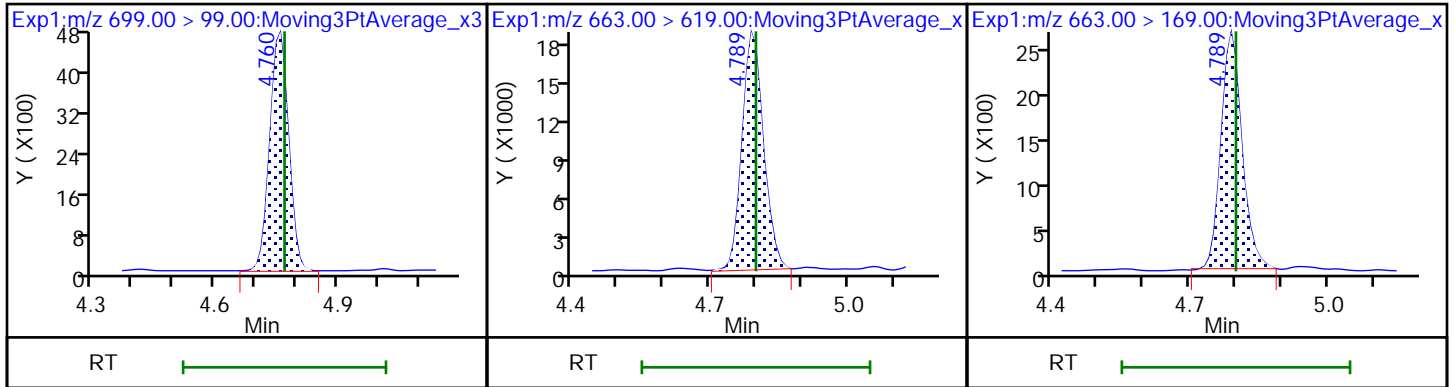
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

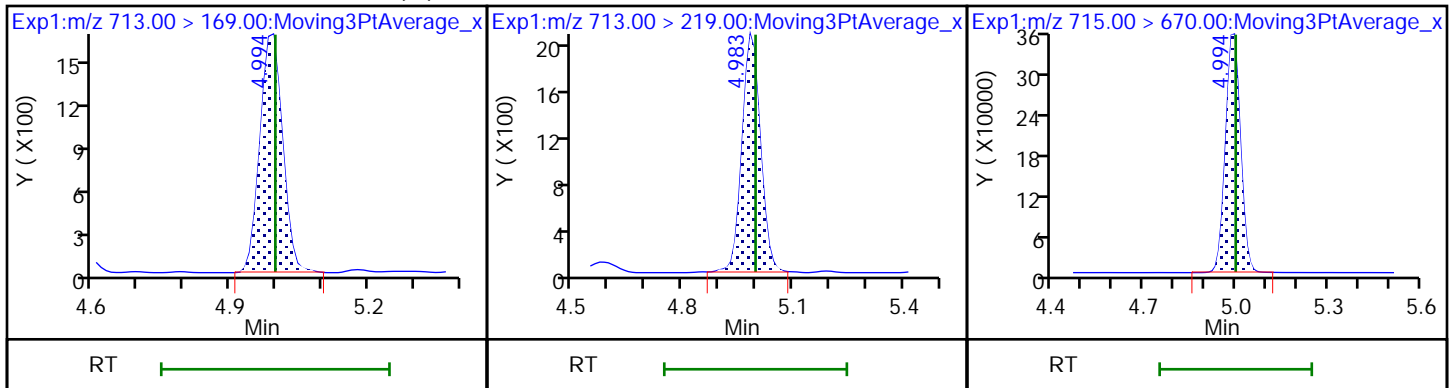
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

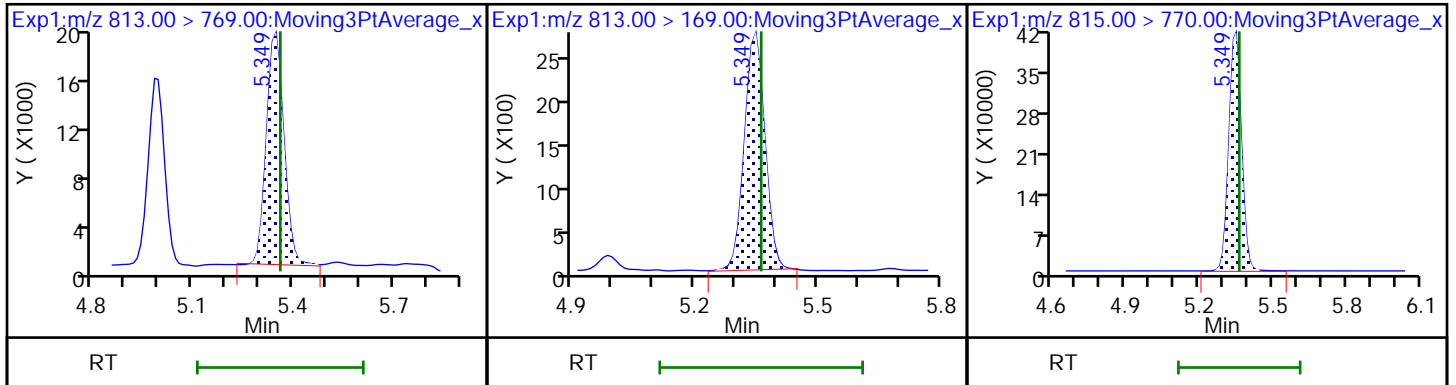
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

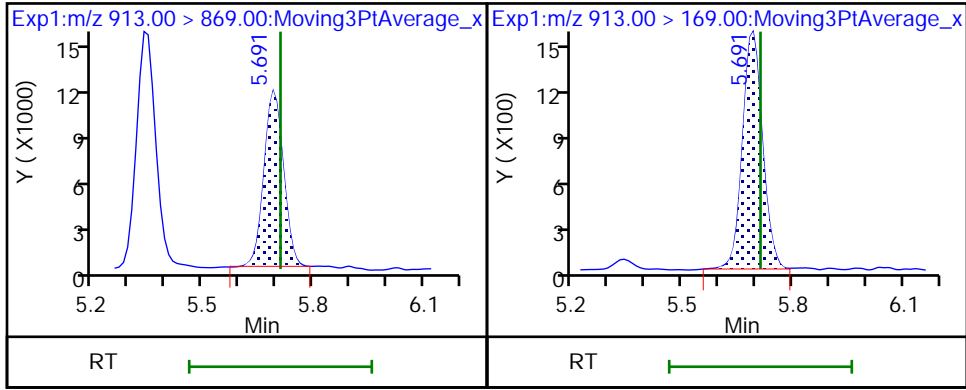
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

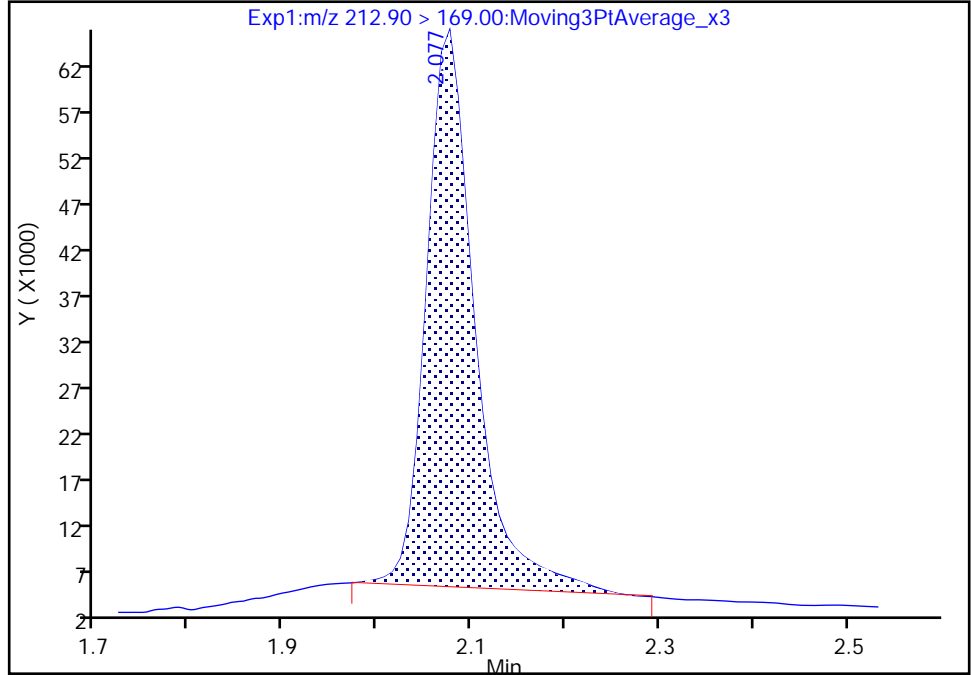
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

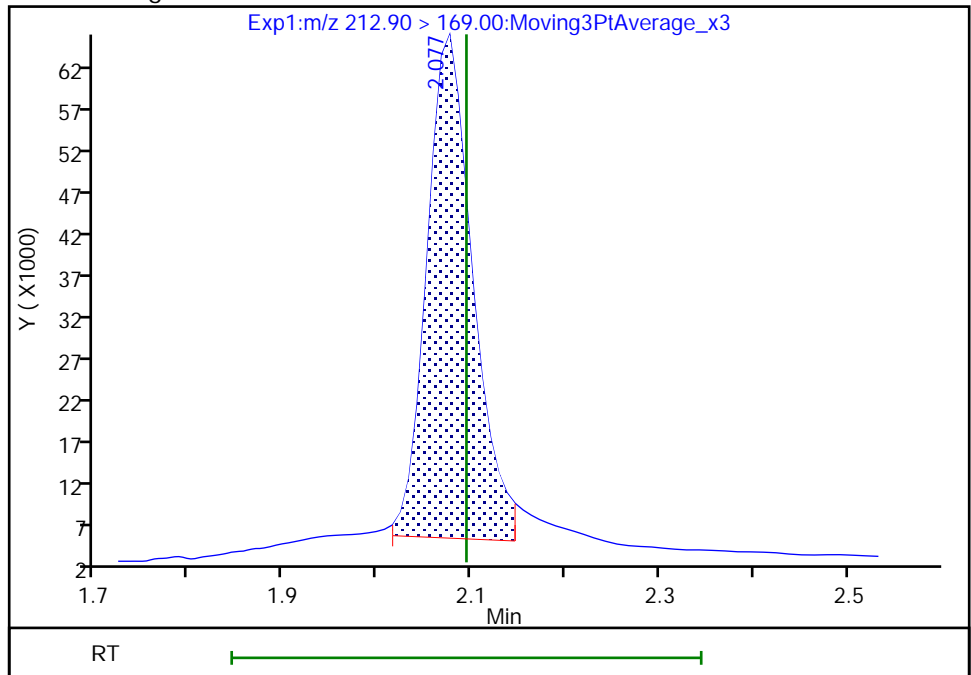
RT: 2.08
Area: 217719
Amount: 0.130859
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 203977
Amount: 0.119861
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:00:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

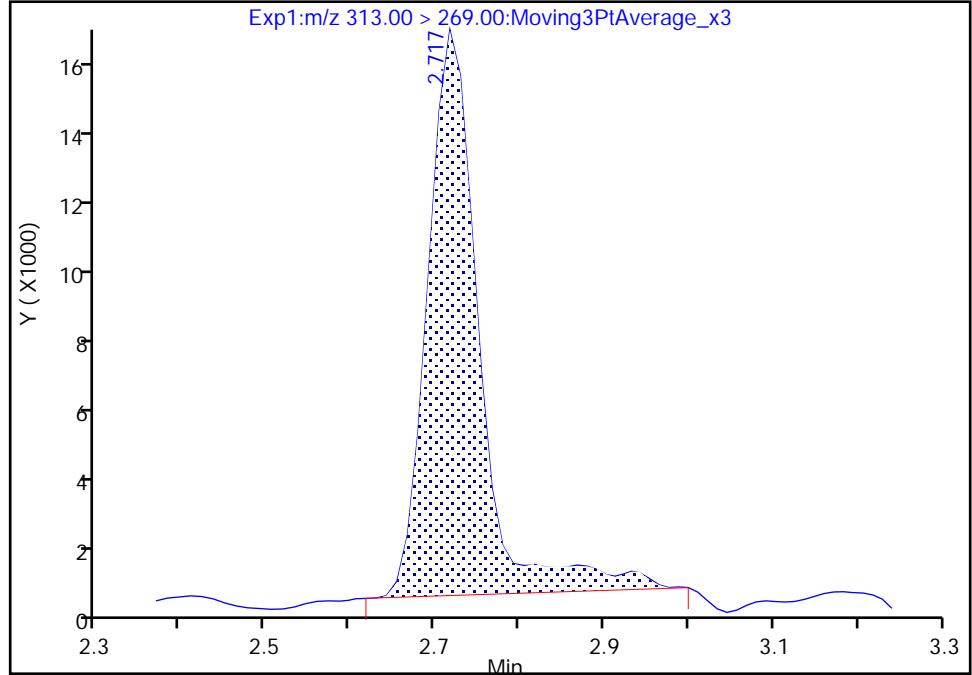
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

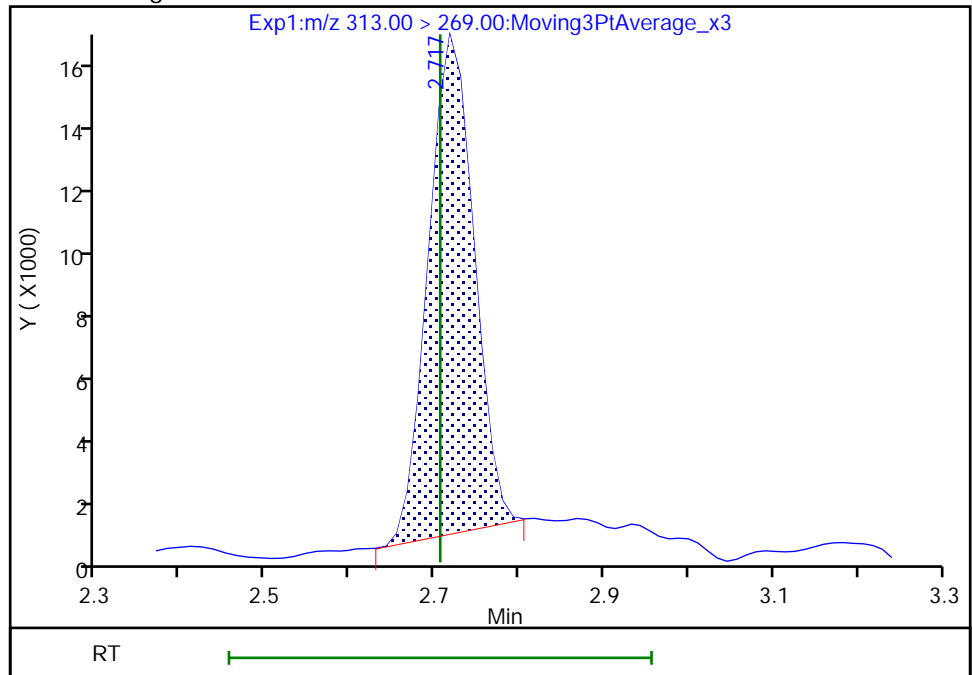
RT: 2.72
Area: 66407
Amount: 0.058063
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 56857
Amount: 0.049713
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:01:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

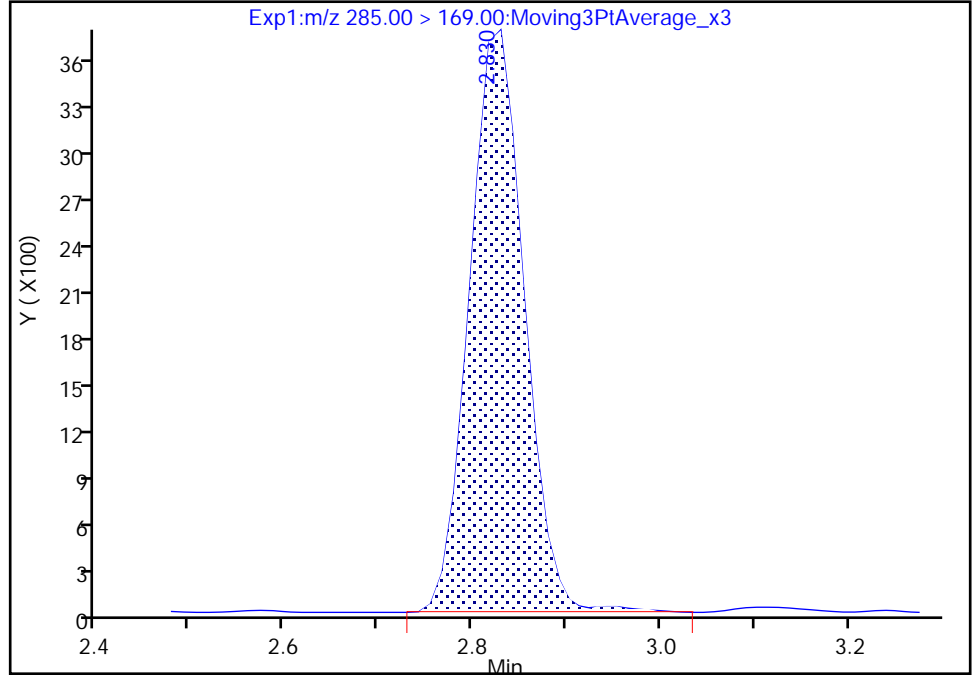
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

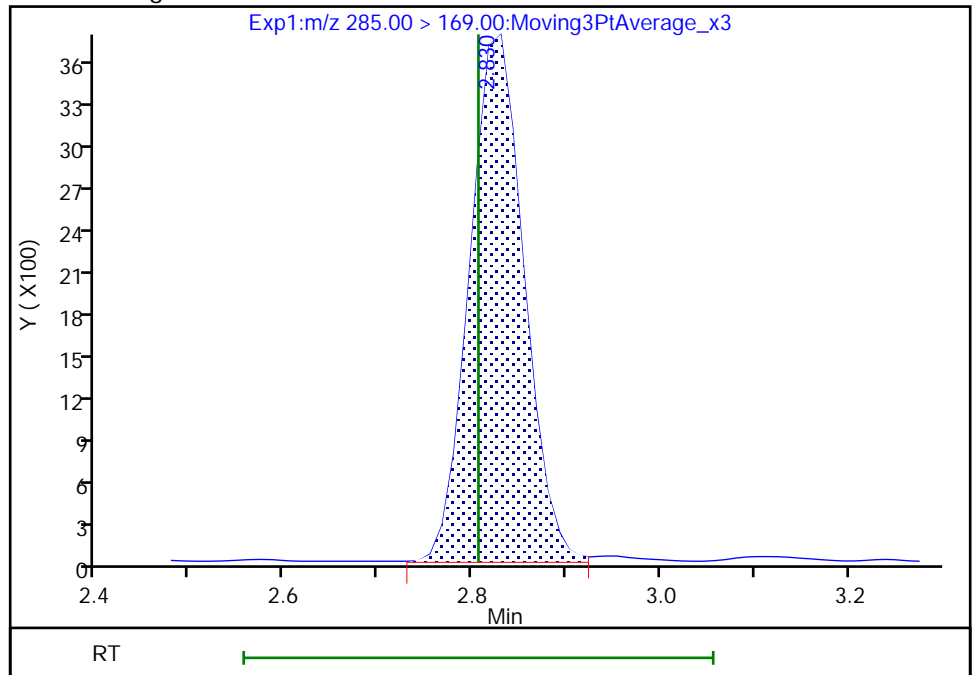
RT: 2.83
Area: 15172
Amount: 0.075984
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 15039
Amount: 0.075318
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:01:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

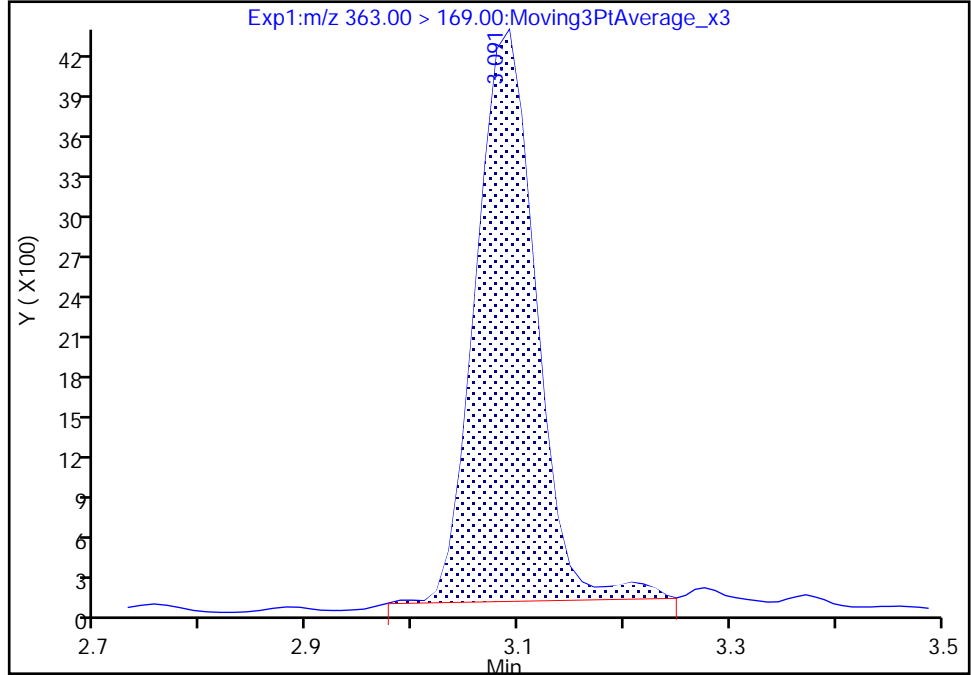
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

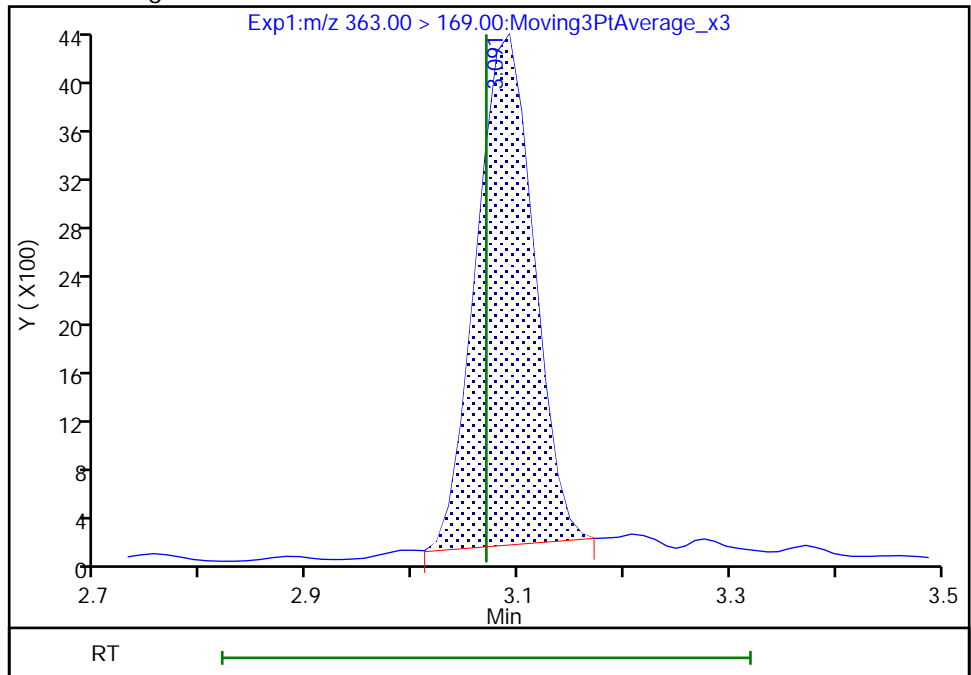
RT: 3.09
Area: 16651
Amount: 0.053960
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 15732
Amount: 0.052675
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:01:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 447 of 950

Eurofins Burlington

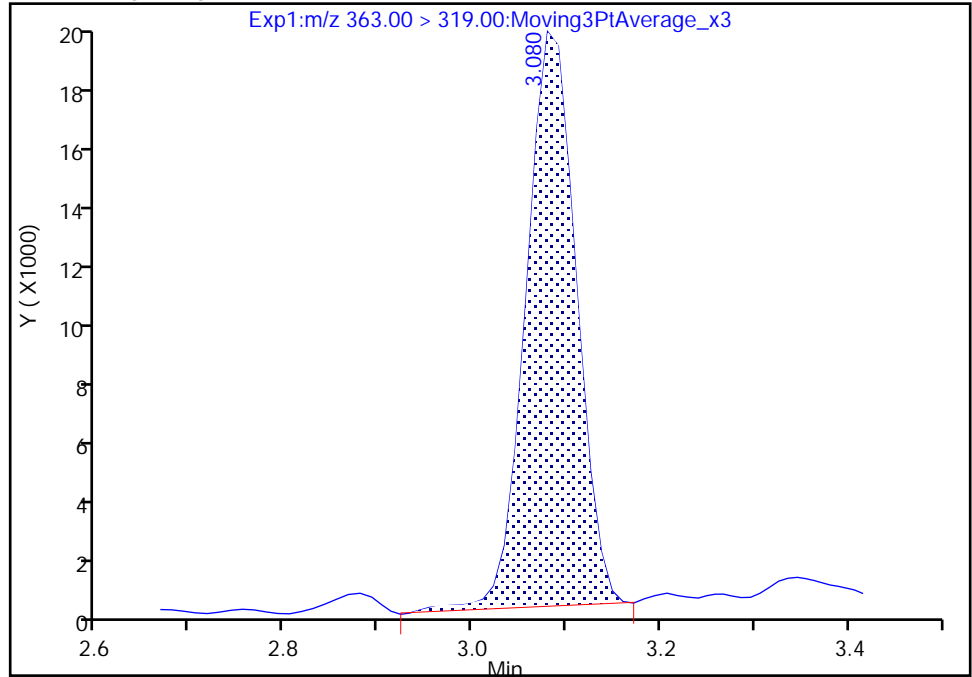
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

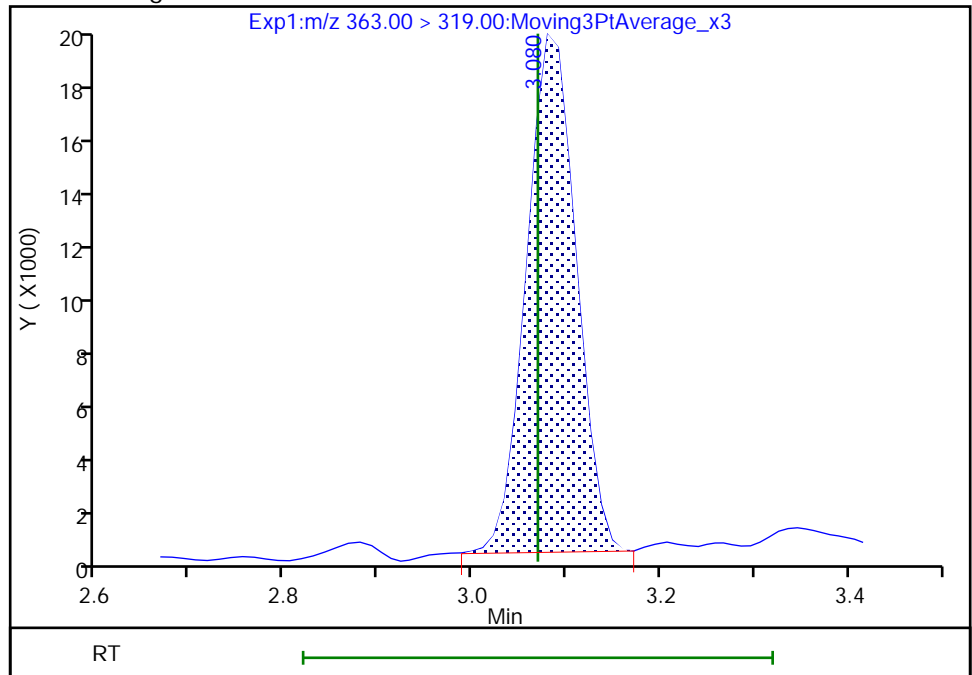
RT: 3.08
Area: 69087
Amount: 0.053960
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 67441
Amount: 0.052675
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:01:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

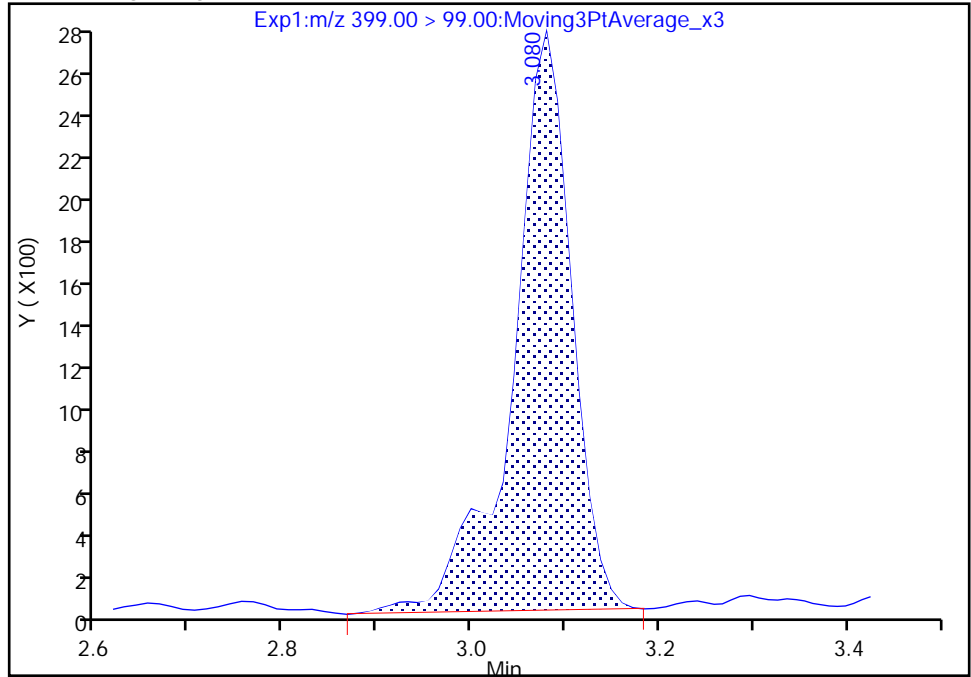
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

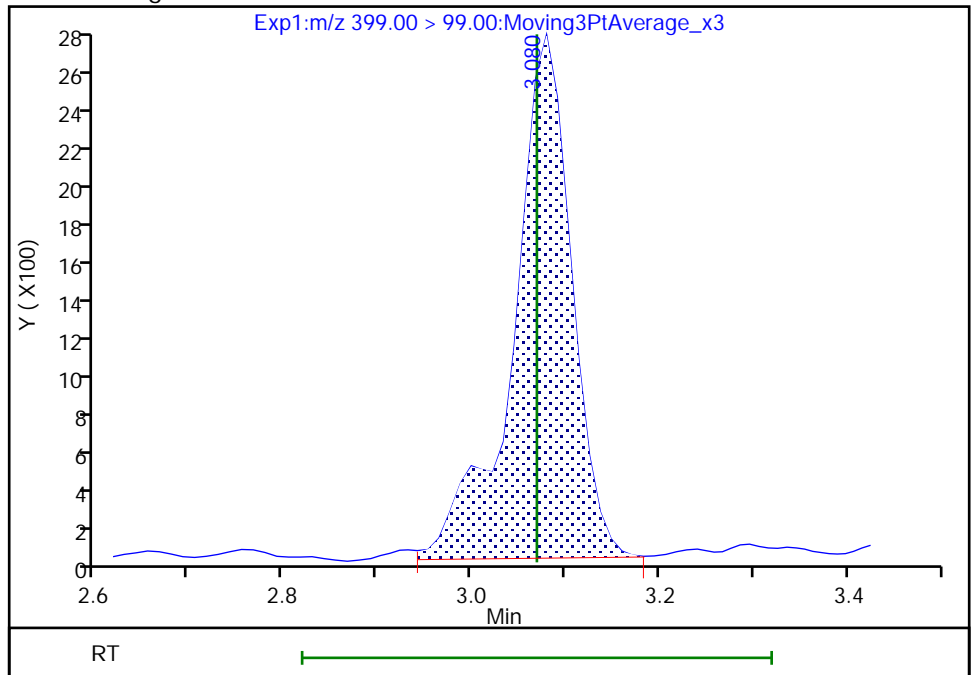
RT: 3.08
Area: 12002
Amount: 0.051877
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 11874
Amount: 0.051877
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:01:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

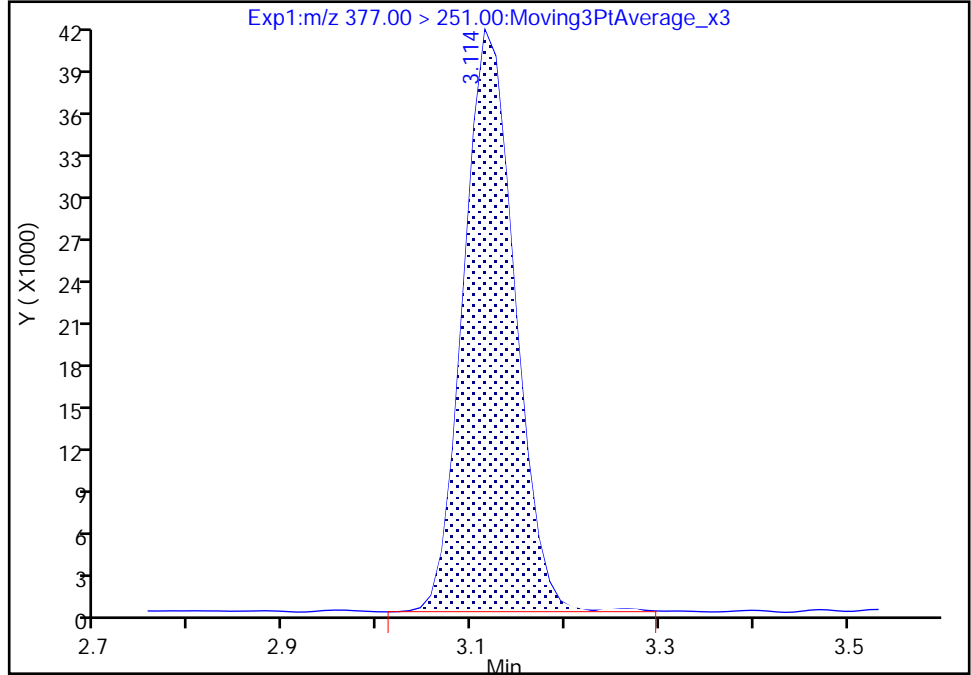
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

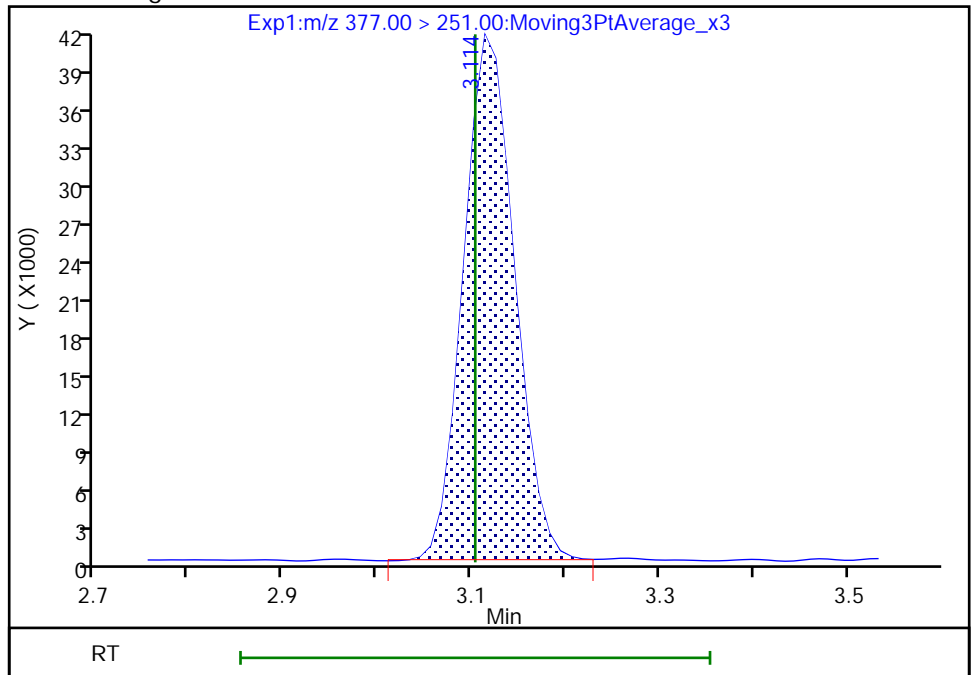
RT: 3.11
Area: 157893
Amount: 0.051538
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 157146
Amount: 0.051294
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:02:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

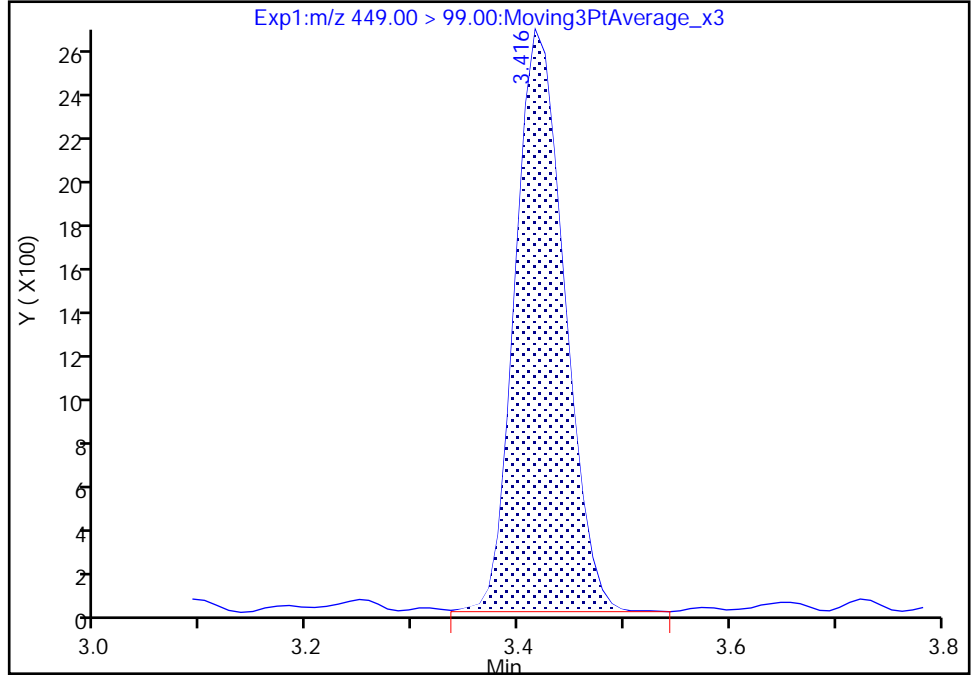
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

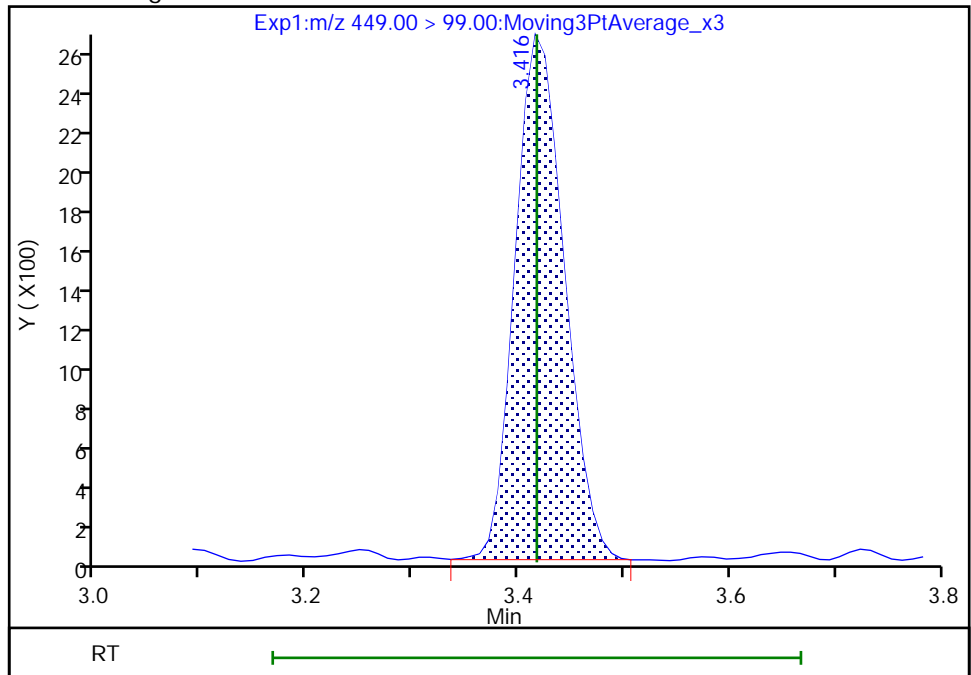
RT: 3.42
Area: 8446
Amount: 0.050683
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 8426
Amount: 0.050683
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:02:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

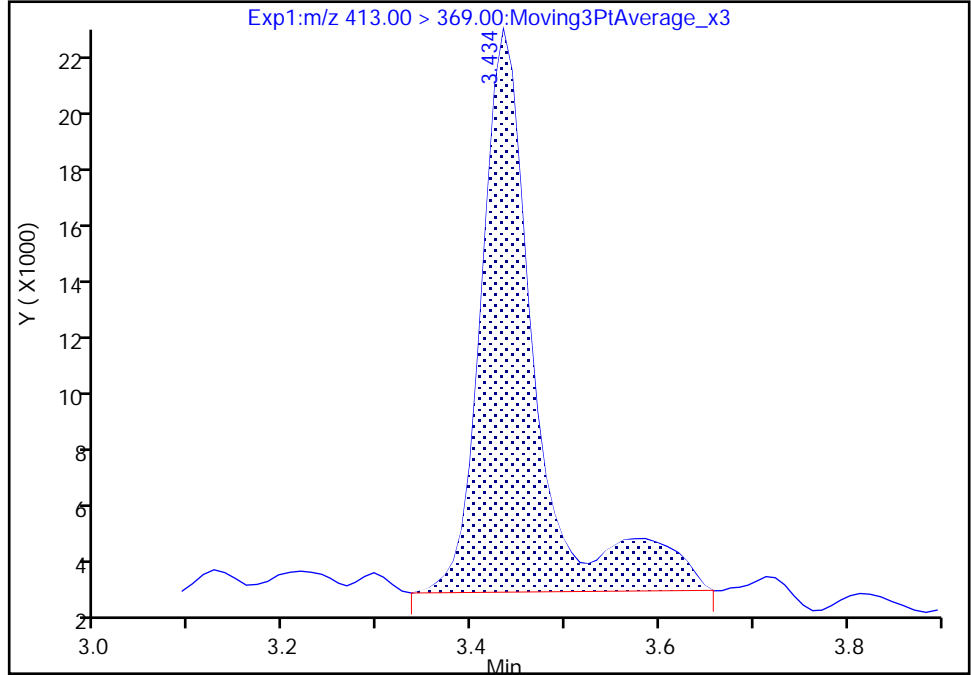
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

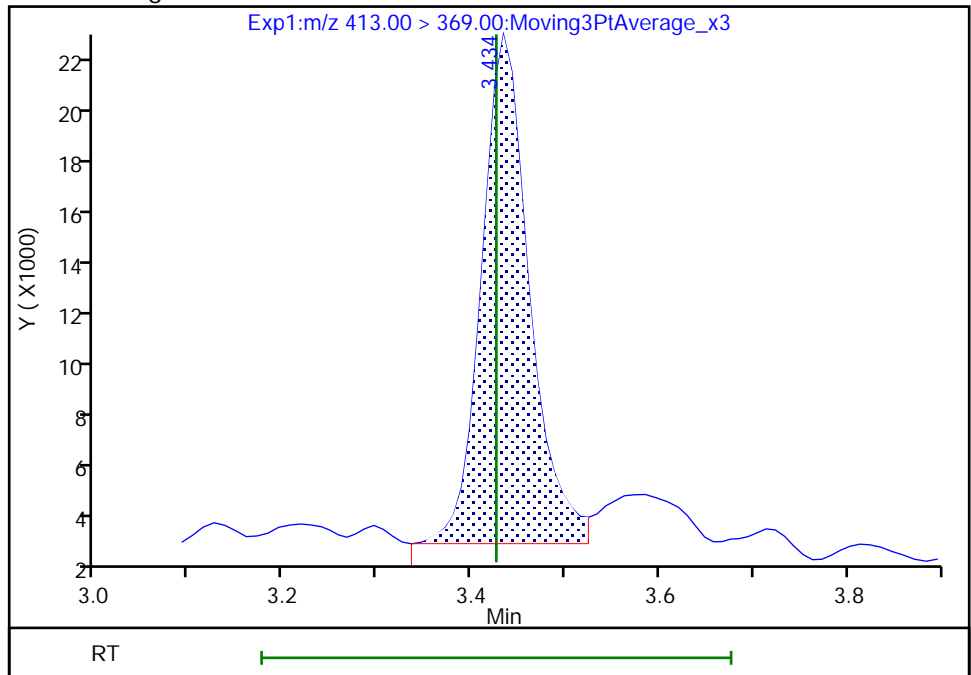
RT: 3.43
Area: 80372
Amount: 0.063817
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 69852
Amount: 0.055464
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:02:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

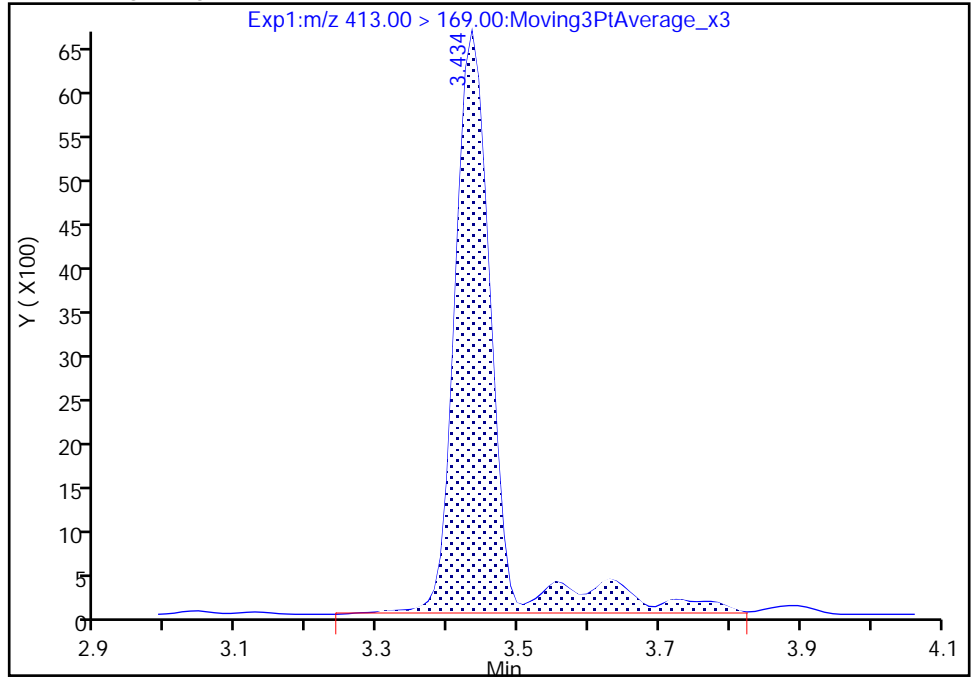
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Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

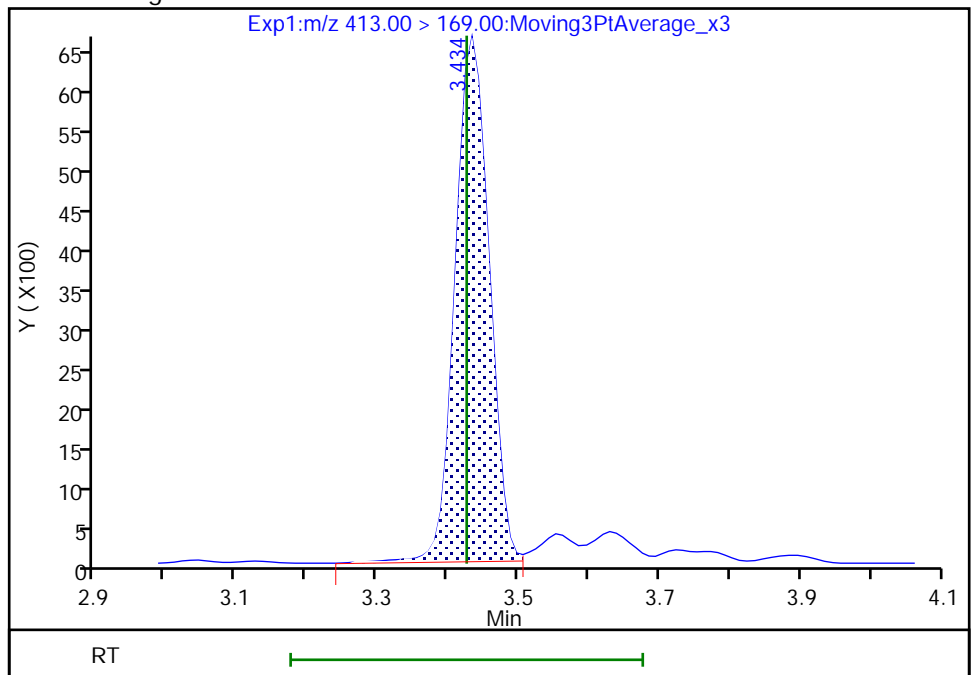
RT: 3.43
Area: 26047
Amount: 0.063817
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 22542
Amount: 0.055464
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:02:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

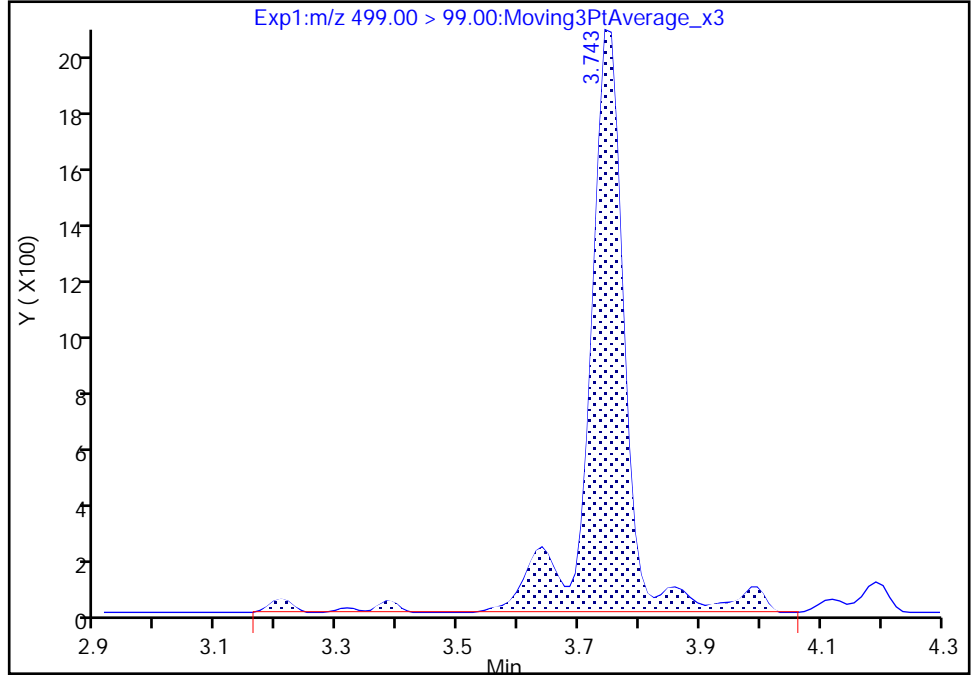
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

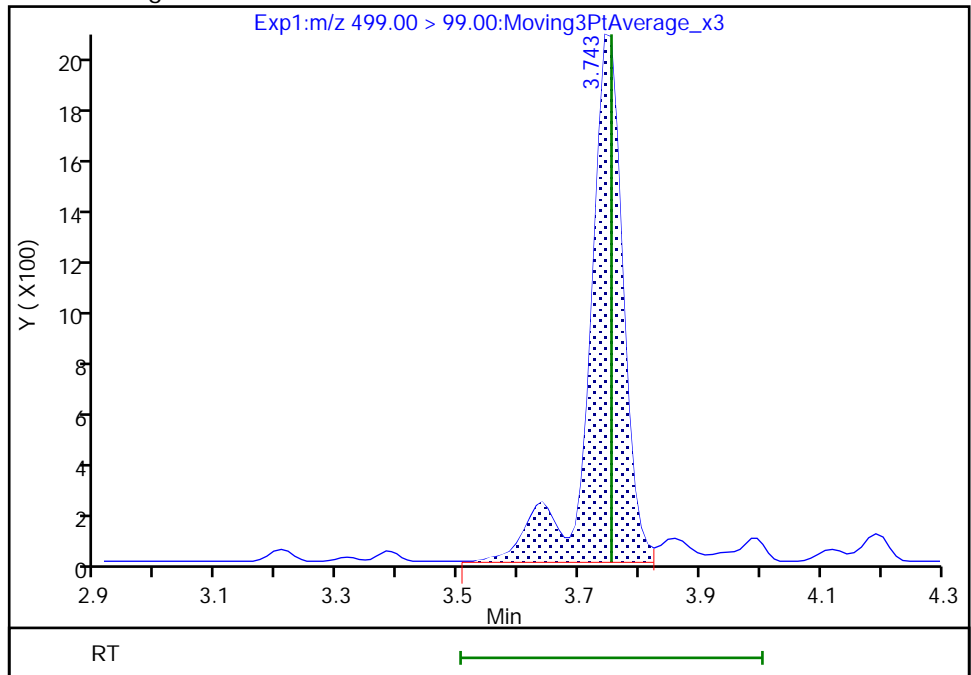
RT: 3.74
Area: 9042
Amount: 0.061753
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 8124
Amount: 0.055197
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 24-Jan-2023 16:49:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

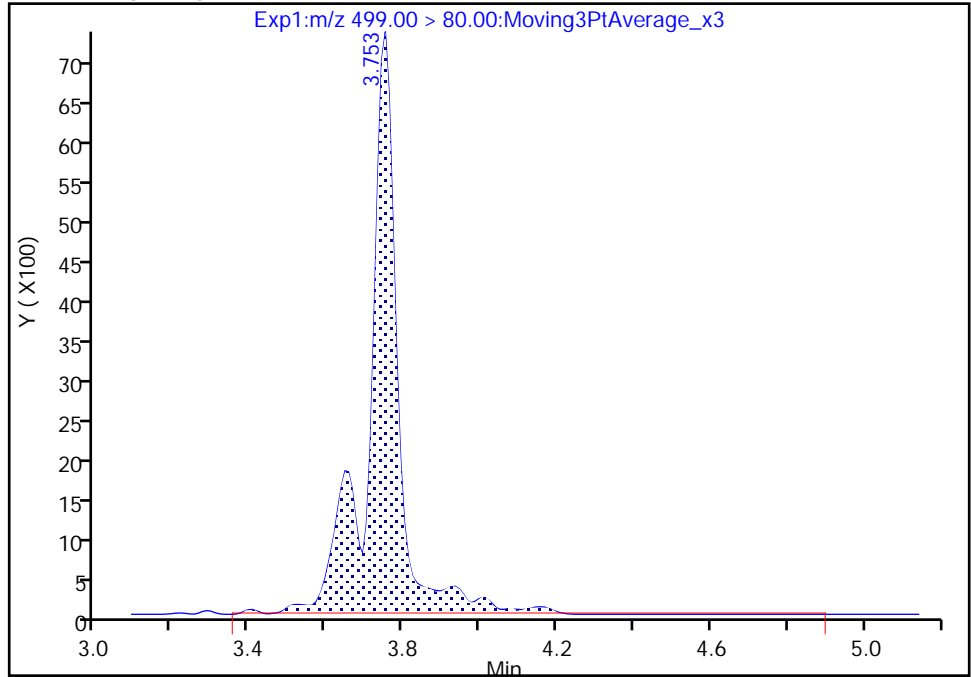
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

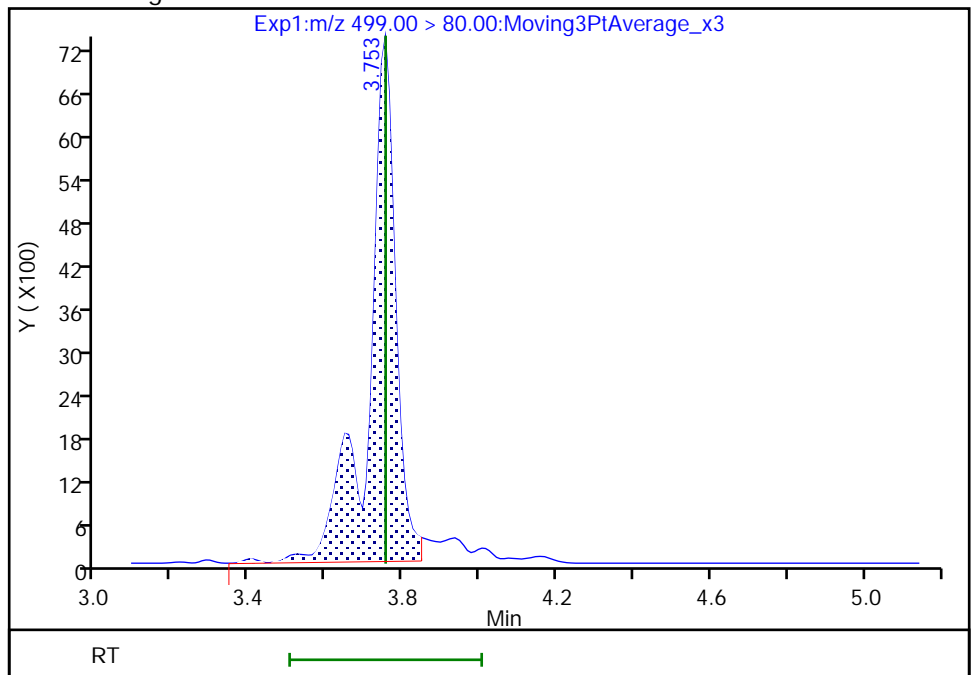
RT: 3.75
Area: 40079
Amount: 0.061753
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 35824
Amount: 0.055197
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 24-Jan-2023 16:49:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

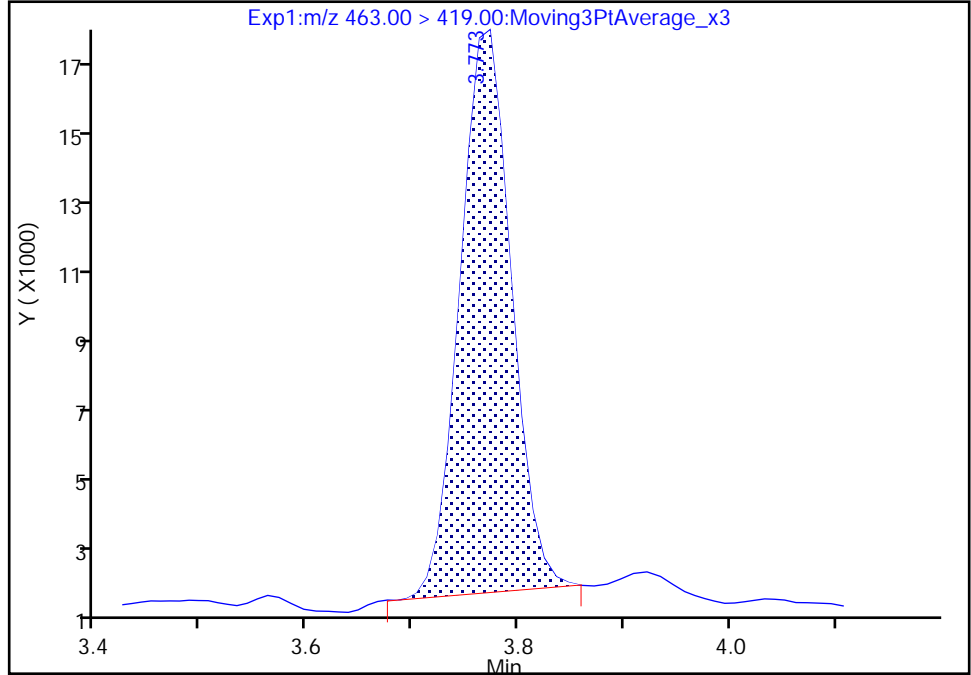
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

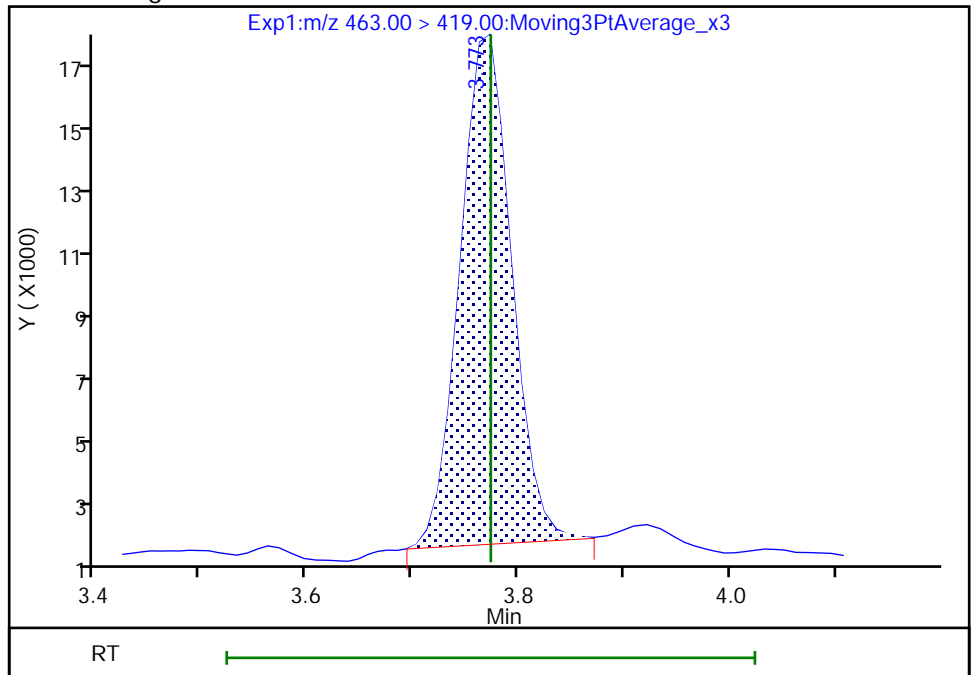
RT: 3.77
Area: 54149
Amount: 0.044387
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 54160
Amount: 0.044396
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:02:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

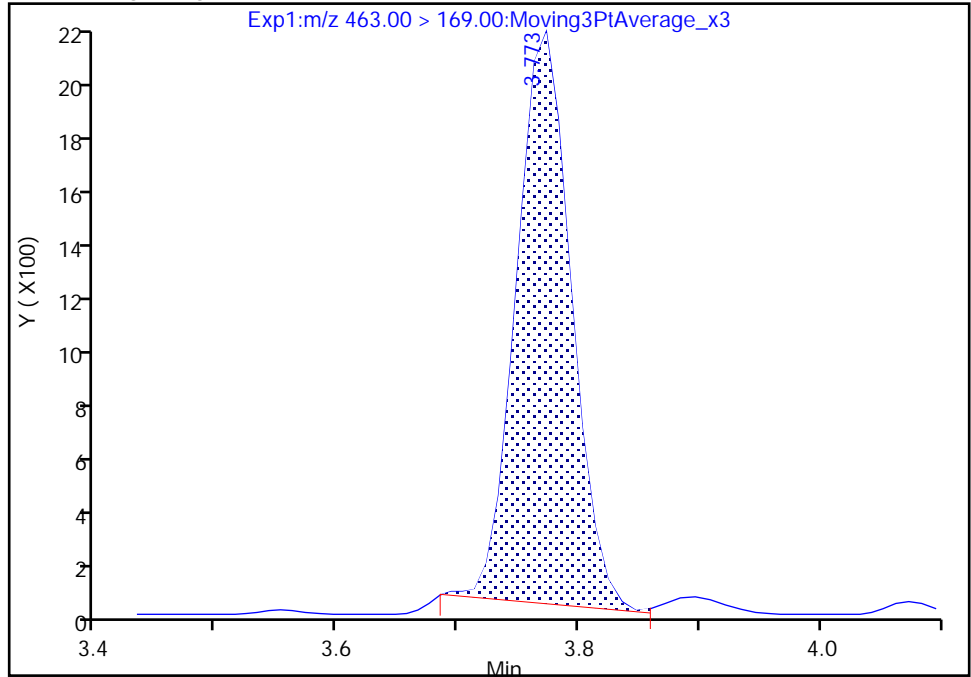
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

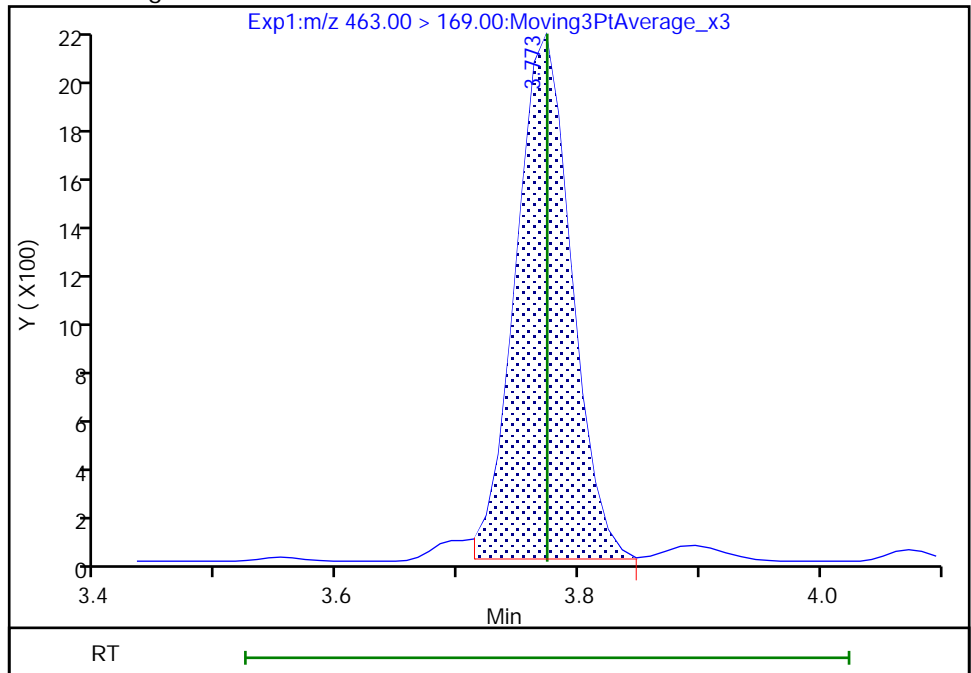
RT: 3.77
Area: 6830
Amount: 0.044387
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 7018
Amount: 0.044396
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 24-Jan-2023 16:50:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

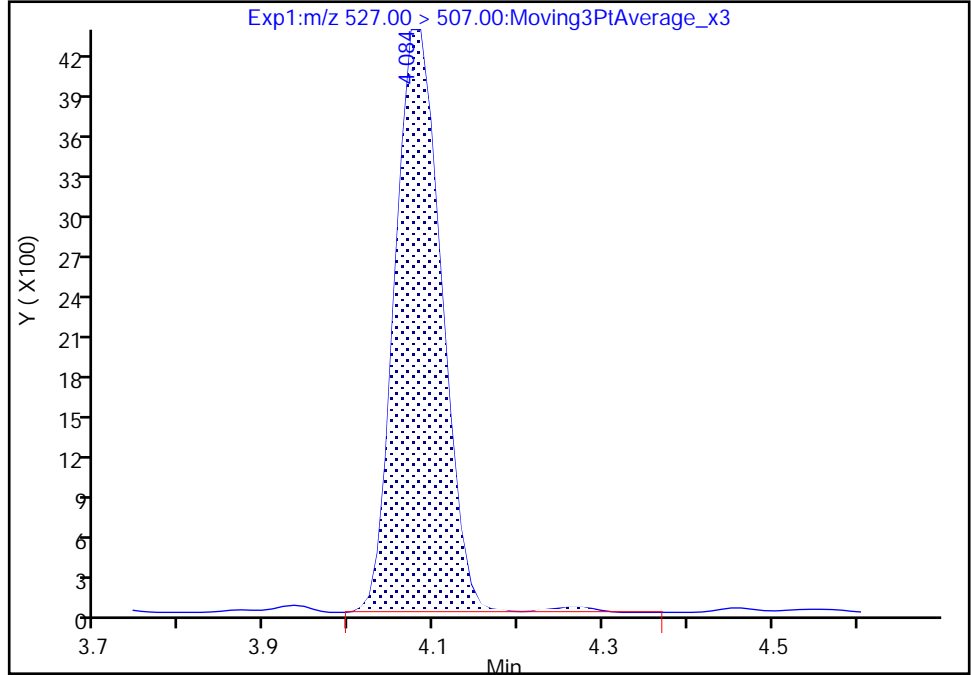
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Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

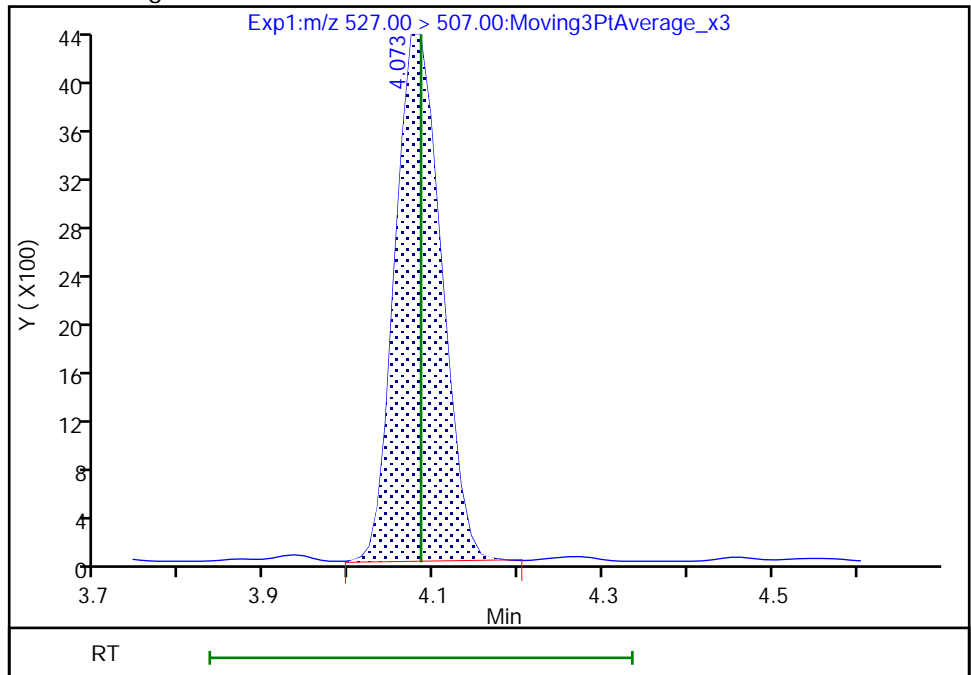
RT: 4.08
Area: 16783
Amount: 0.055990
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 16595
Amount: 0.055362
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:03:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

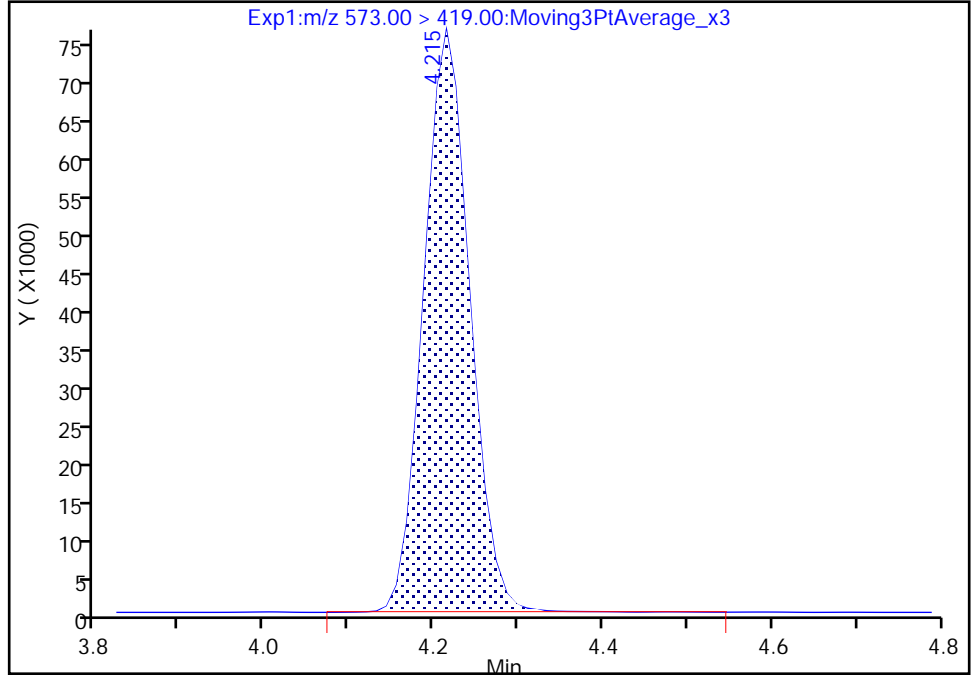
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

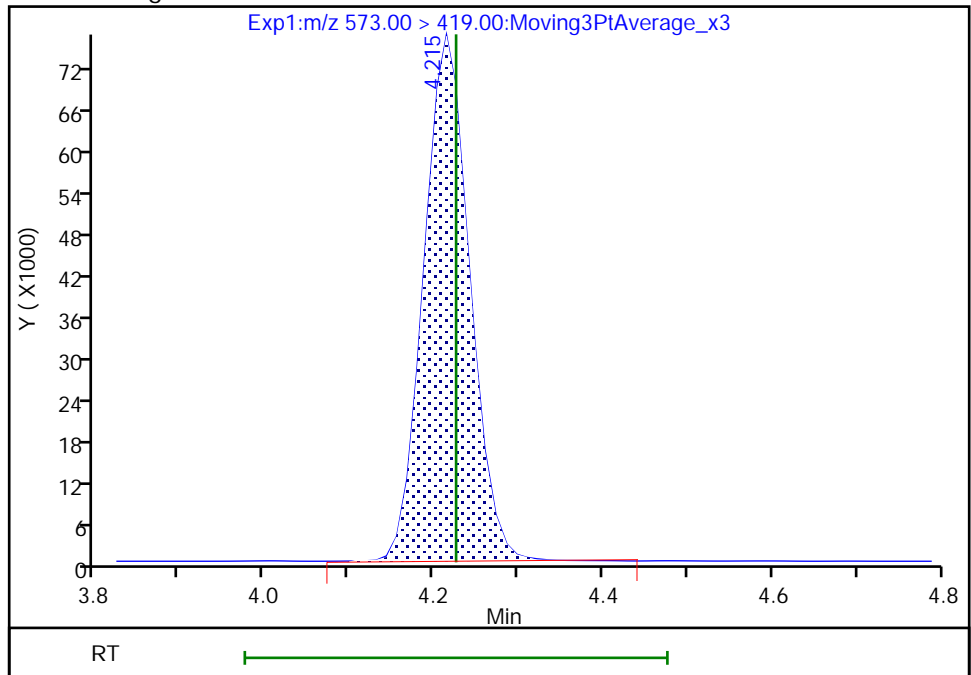
RT: 4.21
Area: 291604
Amount: 1.321426
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 291246
Amount: 1.319804
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:00:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

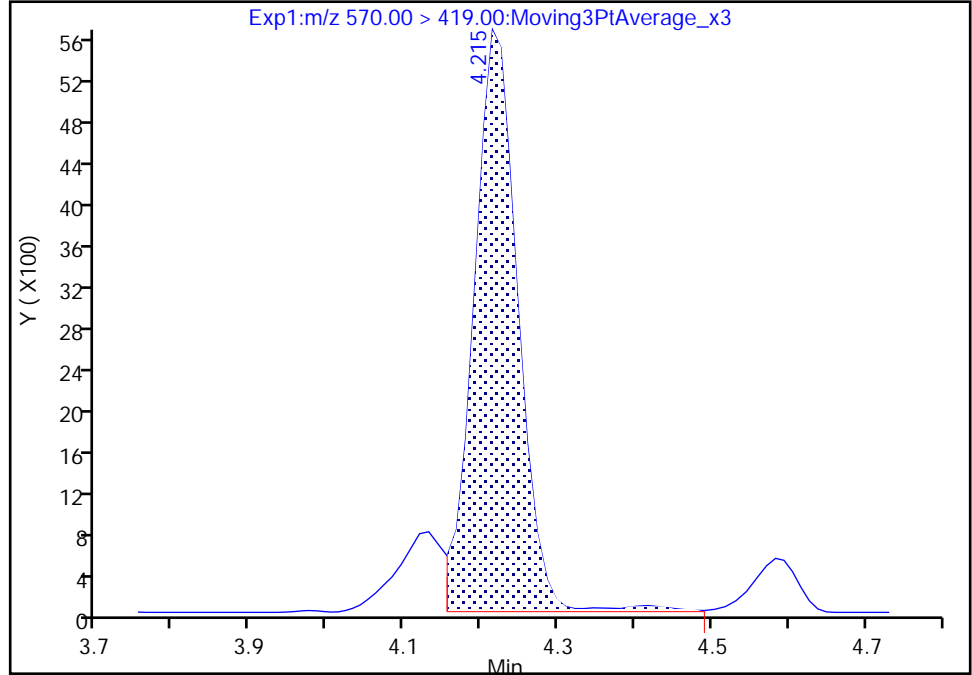
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

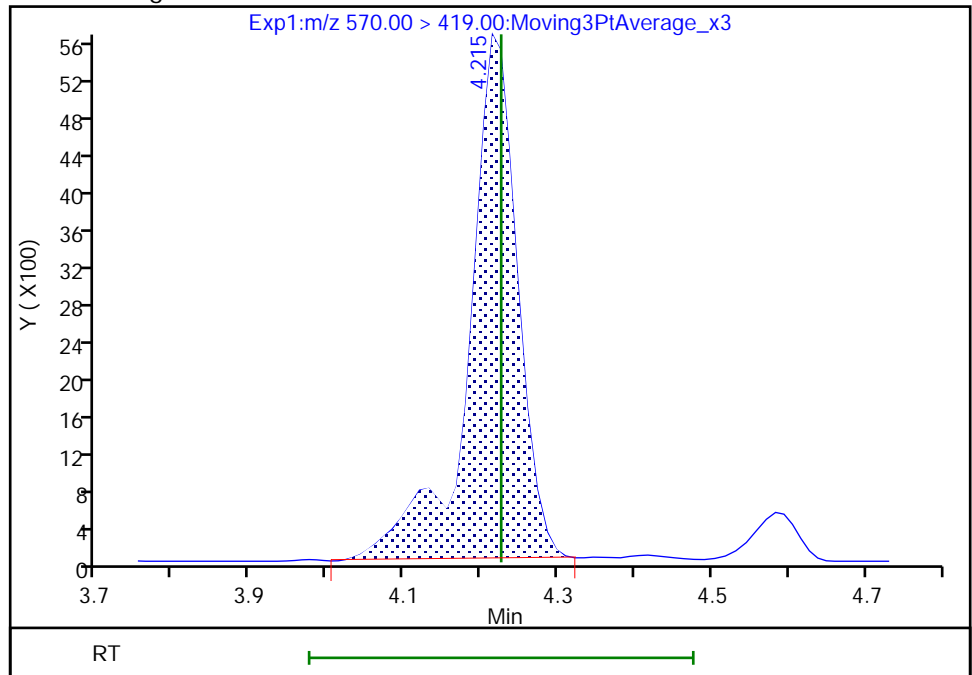
RT: 4.21
Area: 22560
Amount: 0.107388
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 24986
Amount: 0.118937
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:03:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

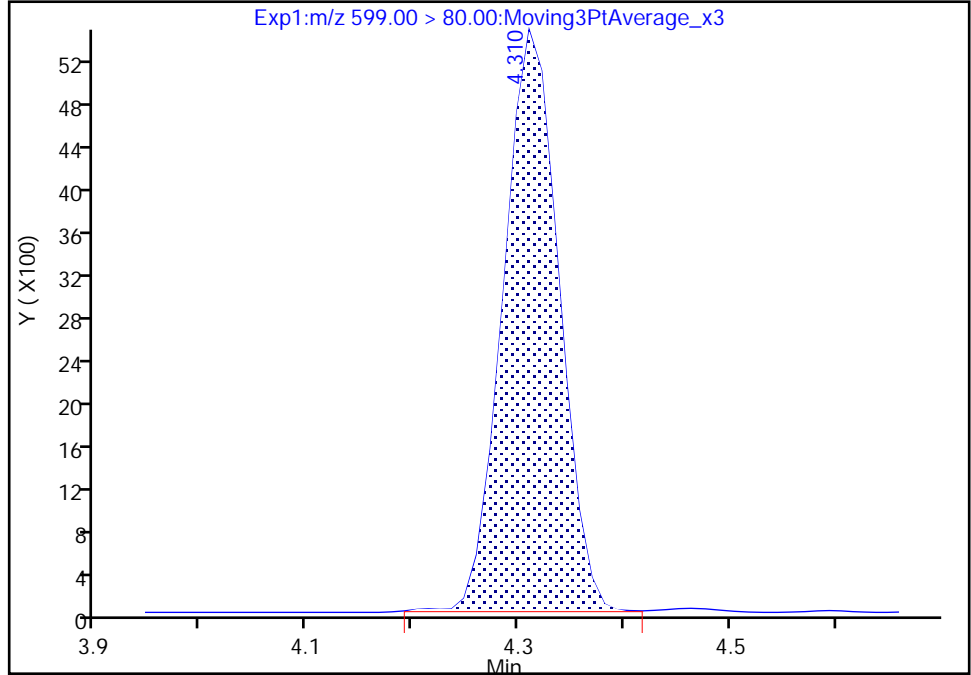
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Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

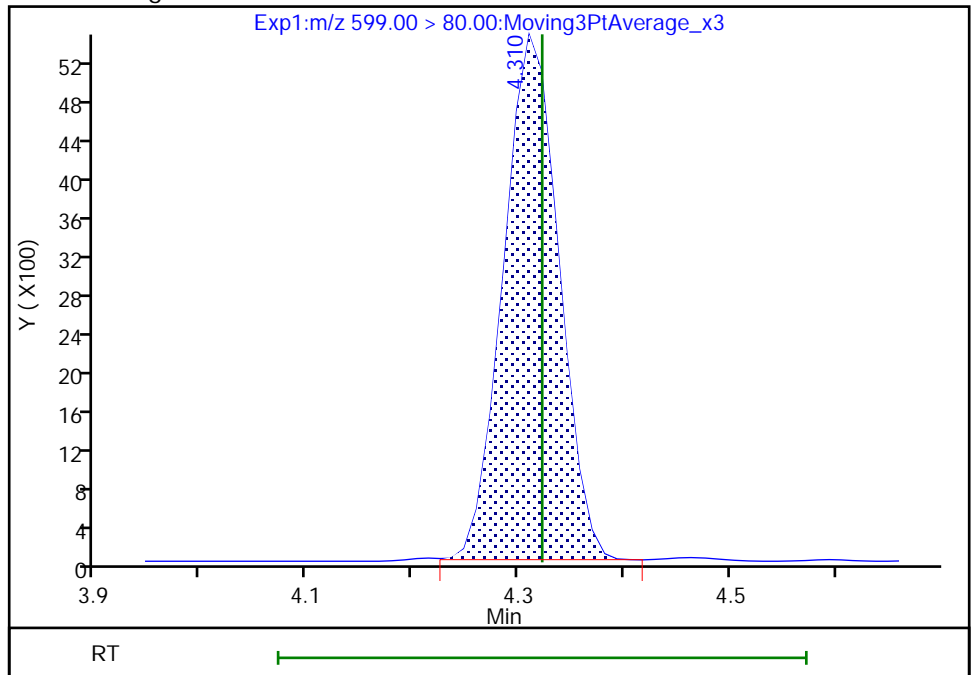
RT: 4.31
Area: 19922
Amount: 0.049578
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 19815
Amount: 0.049312
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:03:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

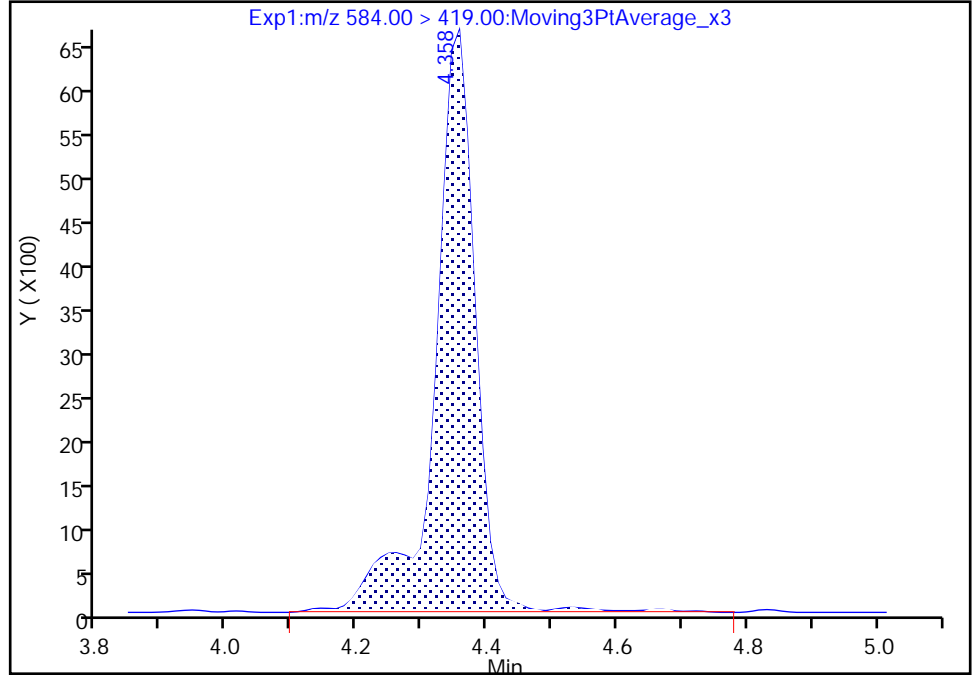
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

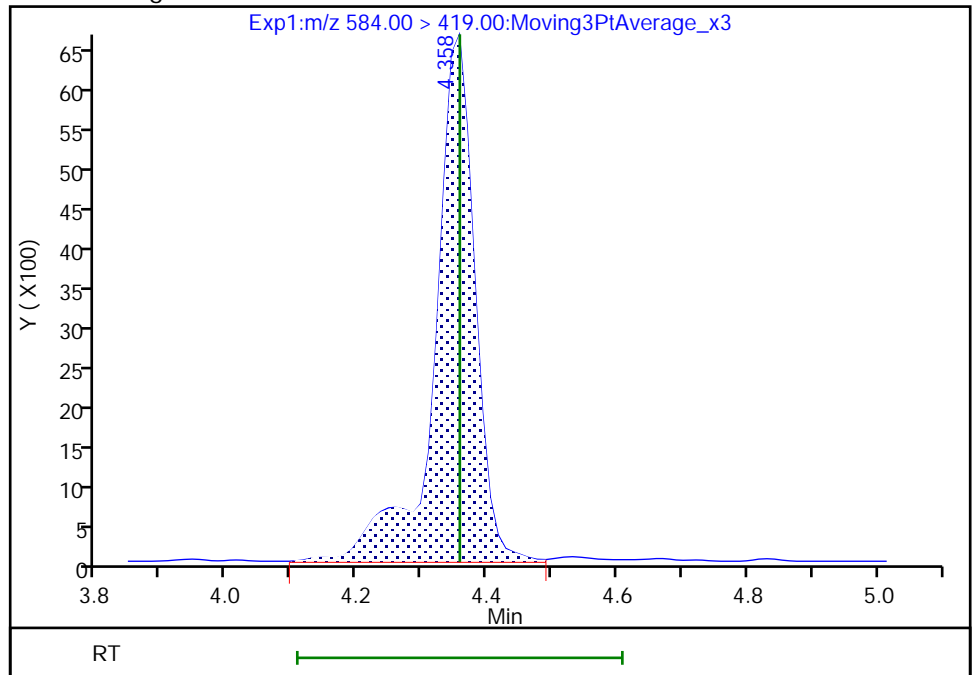
RT: 4.36
Area: 29248
Amount: 0.129013
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 28819
Amount: 0.127121
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:03:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

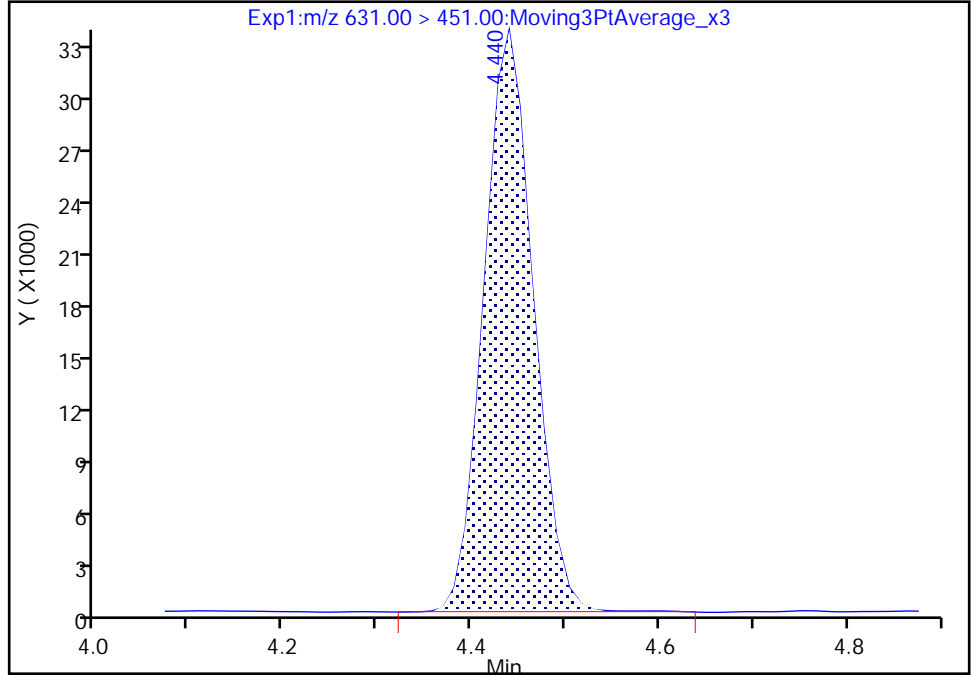
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafuoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

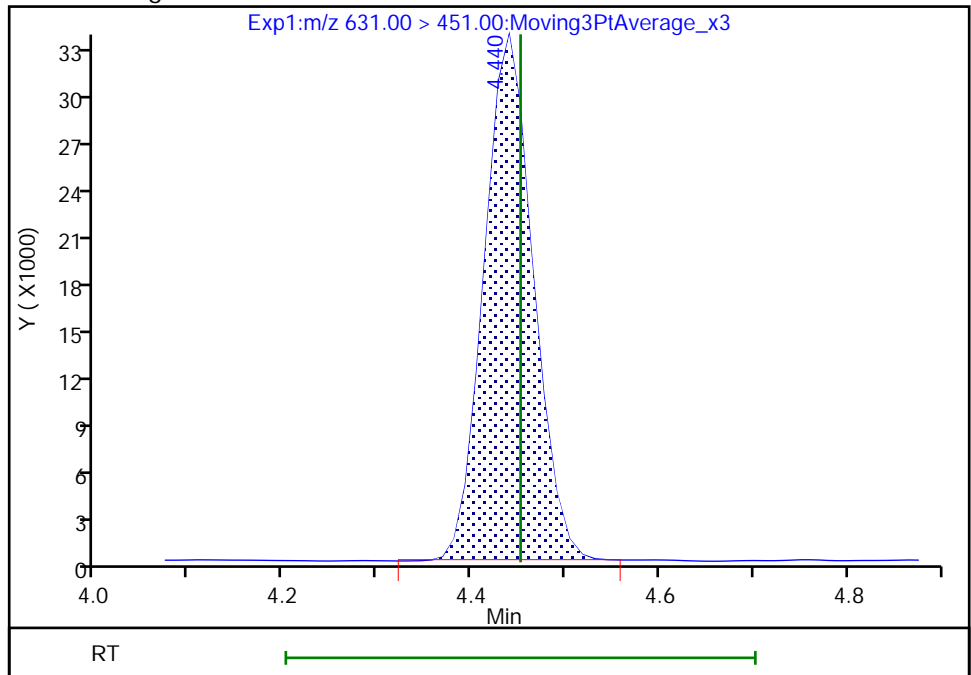
RT: 4.44
Area: 123730
Amount: 0.051605
Amount Units: ng/ml

Processing Integration Results



RT: 4.44
Area: 123038
Amount: 0.051317
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:03:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

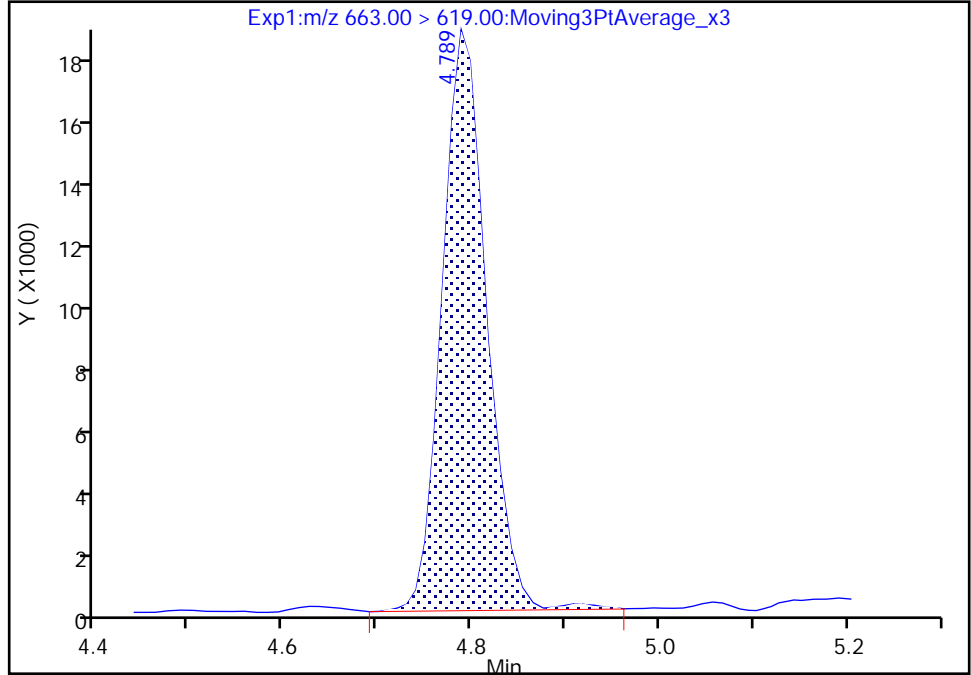
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

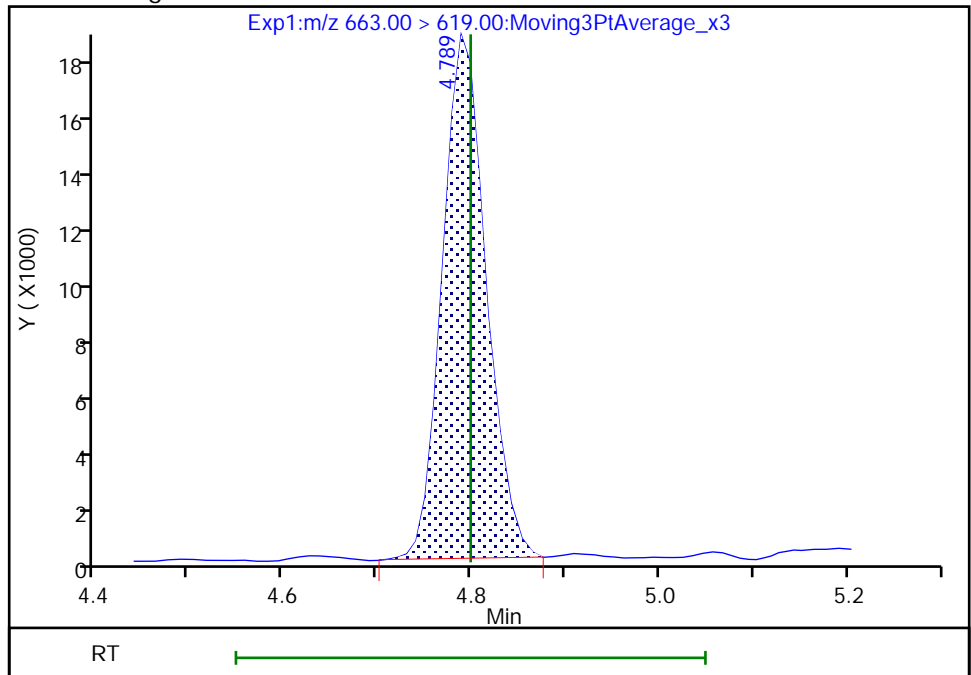
RT: 4.79
Area: 58032
Amount: 0.049469
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 57264
Amount: 0.048815
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:03:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

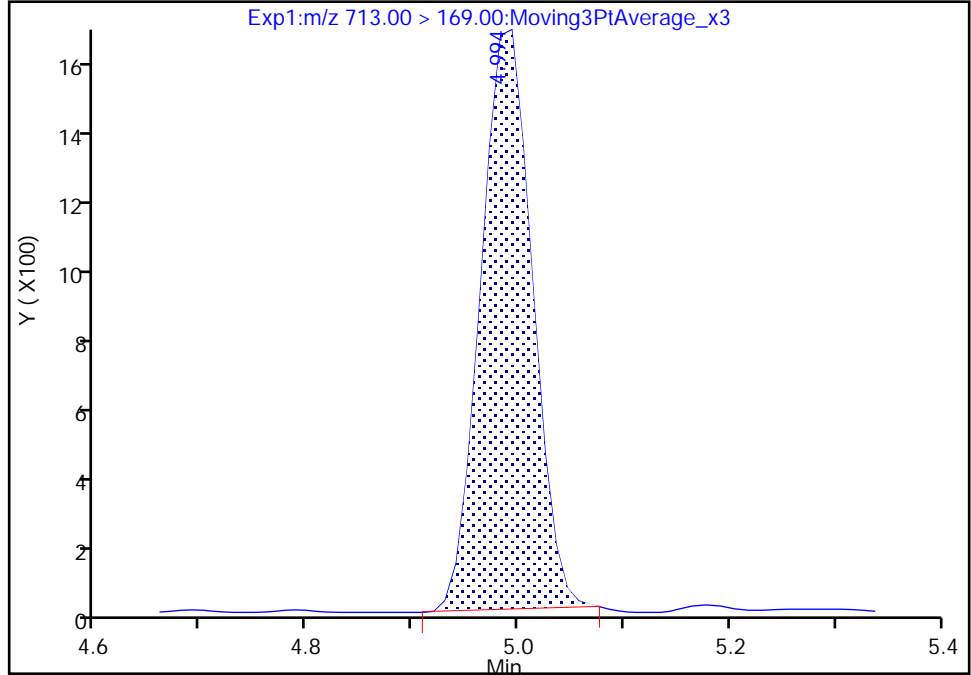
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

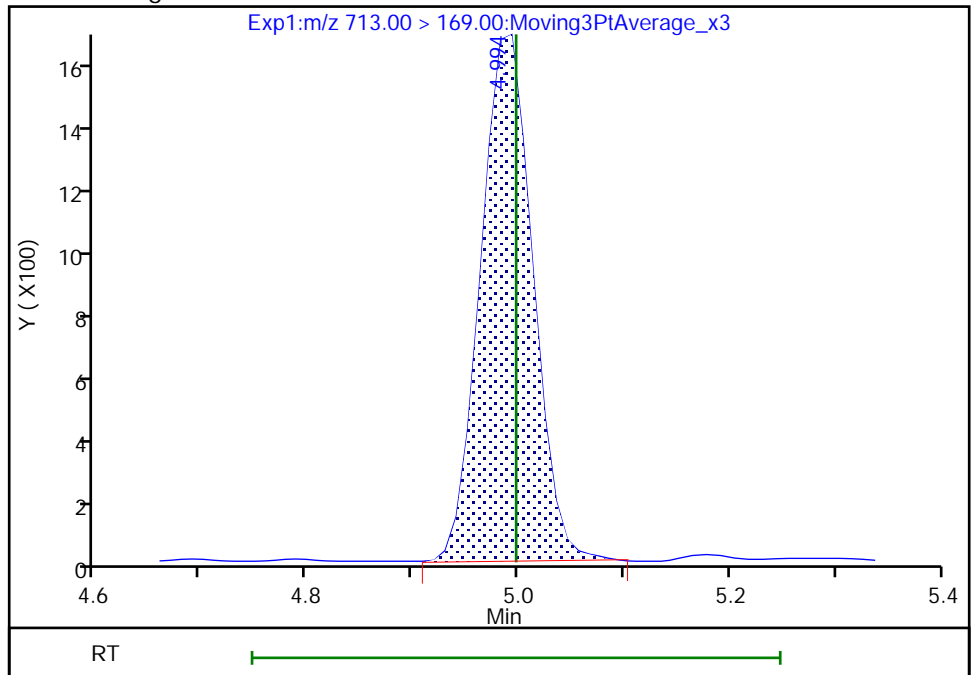
RT: 4.99
Area: 5587
Amount: 0.046791
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 5673
Amount: 0.047511
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:03:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

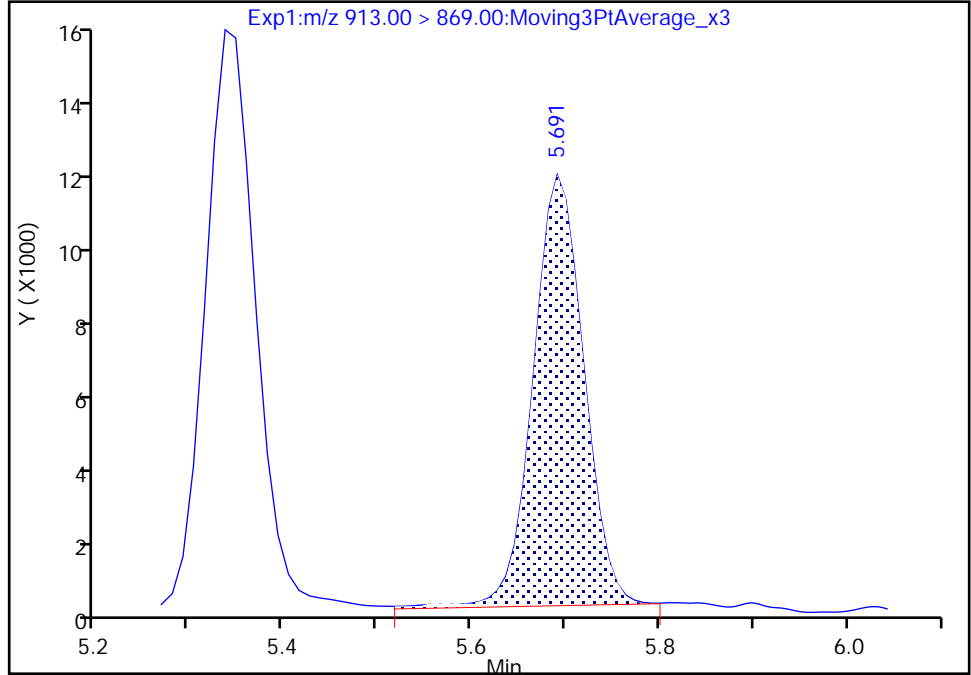
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A05.d
Injection Date: 23-Jan-2023 18:02:40 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

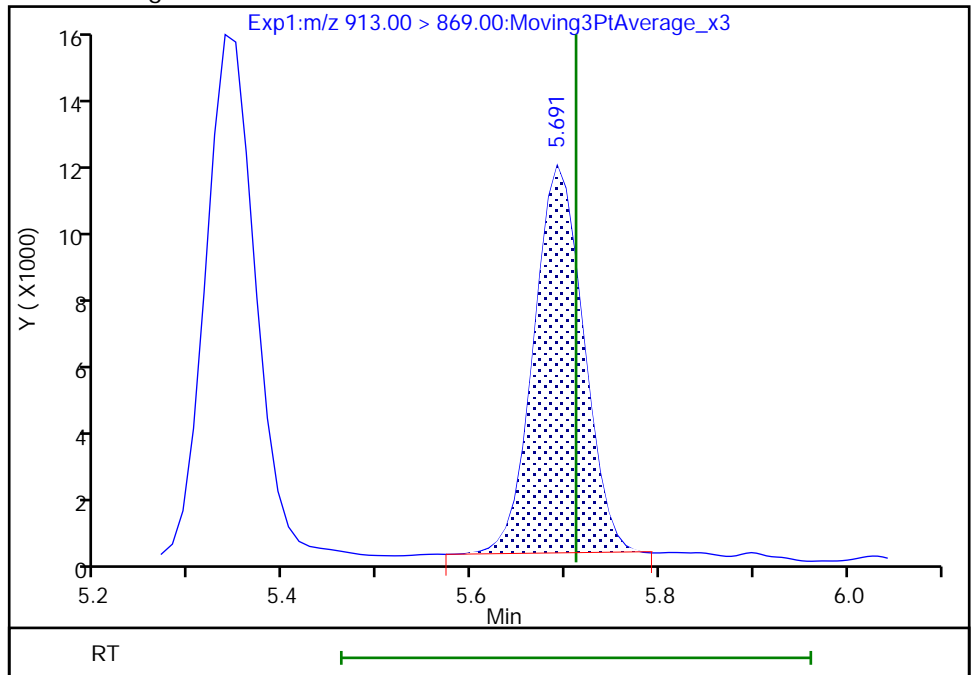
RT: 5.69
Area: 42200
Amount: 0.043876
Amount Units: ng/ml

Processing Integration Results



RT: 5.69
Area: 41288
Amount: 0.042928
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 10:04:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 466 of 950

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187759/1 Calibration Date: 01/23/2023 19:32
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123B01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.8922		2.31	2.50	-7.6	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.071		2.34	2.50	-6.5	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.090		2.25	2.21	1.7	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	2.772		2.19	2.34	-6.3	
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.063		2.52	2.50	0.9	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.141		2.16	2.35	-7.8	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.8372		2.09	2.50	-16.2	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.054		2.18	2.28	-4.0	
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	0.9882		2.32	2.50	-7.2	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	5.535		2.27	2.36	-3.5	
6:2 FTS	AveID	2.290	2.025		2.10	2.37	-11.6	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.420		2.32	2.38	-2.4	
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.020		2.34	2.50	-6.3	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.092		2.09	2.32	-10.1	
Perfluorononanoic acid (PFNA)	AveID	1.022	0.9086		2.22	2.50	-11.1	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.773		2.23	2.33	-4.4	
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.8118		1.93	2.40	-19.5	
Perfluorodecanoic acid (PFDA)	AveID	1.069	0.9470		2.21	2.50	-11.4	
8:2 FTS	AveID	1.814	1.665		2.20	2.40	-8.2	
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.9272		2.31	2.50	-7.8	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.8926		2.48	2.50	-1.0	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7203		2.31	2.41	-4.2	
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	0.9333		2.14	2.50	-14.5	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.9183		2.47	2.50	-1.2	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	4.791		2.51	2.36	6.8	
Perfluorododecanoic acid (PFDoA)	AveID	1.018	0.9240		2.27	2.50	-9.2	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.042		2.19	2.41	-9.1	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2915		2.31	2.42	-4.6	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187759/1 Calibration Date: 01/23/2023 19:32
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123B01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	0.8985		2.21	2.50	-11.6	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1151		2.31	2.50	-7.8	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8636		2.35	2.50	-6.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.7235		2.24	2.50	-10.6	
13C4 PFBA	Ave	1.150	1.201		1.31	1.25	4.4	
13C5 PFPeA	Ave	0.9294	0.8336		1.12	1.25	-10.3	
13C3 PFBS	Ave	1.020	0.8317		0.948	1.16	-18.5	
M2-4:2 FTS	Ave	0.0825	0.0870		1.23	1.17	5.5	
13C2 PFHxA	Ave	0.9657	0.8938		1.16	1.25	-7.4	
13C3 HFPO-DA	Ave	0.1673	0.1528		1.14	1.25	-8.7	
13C4 PFHpA	Ave	0.9669	1.006		1.30	1.25	4.1	50.0
18O2 PFHxS	Ave	0.7424	0.6780		1.08	1.18	-8.7	50.0
M2-6:2 FTS	Ave	0.1170	0.1237		1.26	1.19	5.7	
13C4 PFOA	Ave	1.024	0.9936		1.21	1.25	-3.0	50.0
13C4 PFOS	Ave	0.4514	0.4226		1.12	1.20	-6.4	50.0
13C5 PFNA	Ave	0.998	0.9796		1.23	1.25	-1.8	50.0
13C2 PFDA	Ave	1.024	1.029		1.26	1.25	0.5	
M2-8:2 FTS	Ave	0.1466	0.1501		1.23	1.20	2.4	
13C8 FOSA	Ave	0.8320	0.8290		1.25	1.25	-0.4	
d3-NMeFOSAA	Ave	0.2013	0.2278		1.42	1.25	13.2	
13C2 PFUnA	Ave	0.8836	0.9627		1.36	1.25	8.9	
d5-NEtFOSAA	Ave	0.1934	0.2088		1.35	1.25	8.0	
13C2 PFDoA	Ave	0.8860	0.8933		1.26	1.25	0.8	
13C2 PFTeDA	Ave	0.7620	0.8409		1.38	1.25	10.3	
13C2 PFHxDA	Ave	0.9339	0.9778		1.31	1.25	4.7	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jan-2023 19:32:24 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0054084-001 Plate: 1 Rack: 2
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Jan-2023 18:24:23 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1668

First Level Reviewer: khanphomeea Date: 24-Jan-2023 11:12:02

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	2.094	-0.017	0.605	1874645	1.31	104	19188	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.017	1.000	3345255	2.31		92.4	372	M
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.694	1301329	1.12	89.7	7381	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.384	2.370	0.014	1.000	2787028	2.34		93.5	111	M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	1207383	0.9476	81.5	118460	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.397	2.384	0.013	1.000	2501977	2.25	Target=2.10	102	4157	
298.90 > 99.00	2.397	2.384	0.013	1.000	1260699		1.98(1.05-3.15)		1608	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.680	2.669	0.011	1.000	703509	2.19	93.7	9035	
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.780	126892	1.23	105	252	
D 7 13C2 PFHxA	315.00 > 270.00	2.718	2.694	0.024	0.791	1395310	1.16	92.6	8008	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.718	2.706	0.012	1.000	2967334	2.52	Target=13.16	101	652	M
313.00 > 119.00	2.718	2.706	0.012	1.000	218803		13.56(6.58-19.74)		611	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.886	2265538	2.16	Target=2.90	92.2	3127
349.00 > 99.00	2.730	2.706	0.024	0.886	833661		2.72(1.45-4.35)		2559	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.830	2.806	0.024	1.000	399268	2.09		83.8	3421	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	2.830	2.806	0.024	0.824	238453	1.14		91.3	2399	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.897	1001265	1.08		91.3	4632	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.000	2029415	2.18	Target=3.18	96.0	2928	M
399.00 > 99.00	3.080	3.069	0.011	1.000	626530		3.24(1.59-4.77)		1349	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.080	3.069	0.011	0.897	1571136	1.30		104	7639	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.004	3105135	2.32	Target=4.10	92.8	689	M
363.00 > 169.00	3.080	3.069	0.011	1.000	757411		4.10(2.05-6.16)		2361	
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.833	6878835	2.27	Target=2.96	96.5	4794	M
377.00 > 85.00	3.126	3.104	0.022	0.833	2211222		3.11(1.48-4.44)		4258	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.425	3.417	0.008	0.997	183437	1.26		106	1051	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.425	3.417	0.008	1.000	741514	2.10		88.4	986	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.425	3.417	0.008	0.913	1783649	2.32	Target=4.59	97.6	4614	M
449.00 > 99.00	3.425	3.417	0.008	0.913	383085		4.66(2.30-6.89)		2483	M
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	1.000	1550973	1.21		97.0	4220	
* 62 13C2 PFOA										
415.00 > 370.00	3.434	3.426	0.008		1561023	1.25			6717	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.434	3.426	0.008	1.000	3163023	2.34	Target=2.71	93.7	300	M
413.00 > 169.00	3.434	3.426	0.008	1.000	1067324		2.96(1.36-4.07)		1920	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.093	630612	1.12		93.6	3173	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.754	-0.001	1.000	1336619	2.08	Target=4.23	89.9	2114	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	303031		4.41(2.11-6.34)		1380	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	2778814	2.22	Target=8.78	88.9	558	
463.00 > 169.00	3.773	3.774	-0.001	1.000	346340		8.02(4.39-13.17)		3888	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.099	1529224	1.23		98.2	6977	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	3409883	2.23		95.6	8687	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.043	4.043	0.0	1.077	1028173	1.93	Target=2.37	80.5	6780	
549.00 > 99.00	4.043	4.043	0.0	1.077	458427		2.24(1.18-3.55)		2658	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.186	1605957	1.26		100	15820	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	3041665	2.21	Target=11.13	88.6	1250	
513.00 > 169.00	4.073	4.074	-0.001	1.000	312827		9.72(5.56-16.69)		2314	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.189	224449	1.23		102	1791	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	747562	2.20		91.8	5649	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.003	2399869	2.30		92.2	3926	
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.203	1294157	1.25		99.6	2595	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.215	4.226	-0.011	1.227	355667	1.42		113	613	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.215	4.226	-0.011	1.000	634935	2.47		99.0	1343	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.322	-0.012	1.148	916015	2.31	Target=2.45	95.8	3227	
599.00 > 99.00	4.310	4.322	-0.012	1.148	392493		2.33(1.23-3.68)		3553	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.265	1502740	1.36		109	3723	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	2804916	2.14	Target=10.33	85.5	969	M
563.00 > 169.00	4.346	4.346	0.0	1.000	258474		10.85(5.17-15.50)		2346	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.358	4.358	0.0	1.000	598609	2.47		98.8	1211	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.269	325934	1.35		108	884	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	5954245	2.51		107	7314	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	2576865	2.27	Target=8.10	90.8	367	
613.00 > 169.00	4.583	4.584	-0.001	1.000	290658		8.87(4.05-12.15)		2341	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.335	1394402	1.26		101	6332	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.594	4.606	-0.012	1.125	470890	2.19		90.9	6266	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.268	372218	2.31	Target=0.51	95.4	3569	
699.00 > 99.00	4.760	4.770	-0.010	1.268	686534		0.54(0.26-0.77)		9114	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.798	4.799	-0.001	1.047	2505613	2.21	Target=6.06	88.4	337	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	435841		5.75(3.03-9.09)		2135	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.994	4.998	-0.004	1.000	302230	2.31	Target=0.83	92.2	4007	
713.00 > 219.00	4.983	4.998	-0.015	0.998	326700		0.93(0.42-1.25)		3600	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.454	1312662	1.38		110	7822	

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	5.349	5.362	-0.013	1.000	2636329	2.35	Target=6.74	94.0	410	M
813.00 > 169.00	5.349	5.362	-0.013	1.000	395968		6.66(3.37-10.11)		3167	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.349	5.362	-0.013	1.558	1526425	1.31		105	6511	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.701	5.711	-0.010	1.066	2208661	2.24	Target=6.99	89.4	372	M
913.00 > 169.00	5.701	5.711	-0.010	1.066	297083		7.43(3.50-10.49)		1171	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00031

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d

Injection Date: 23-Jan-2023 19:32:24

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: LC812user

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

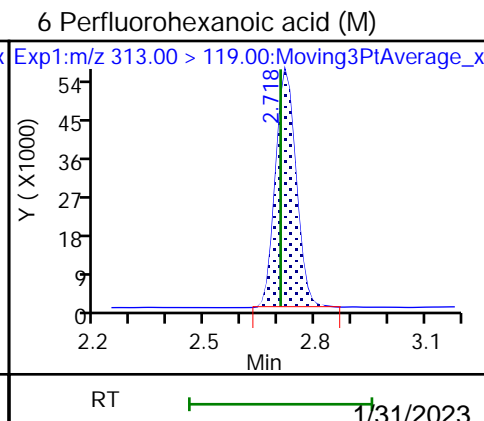
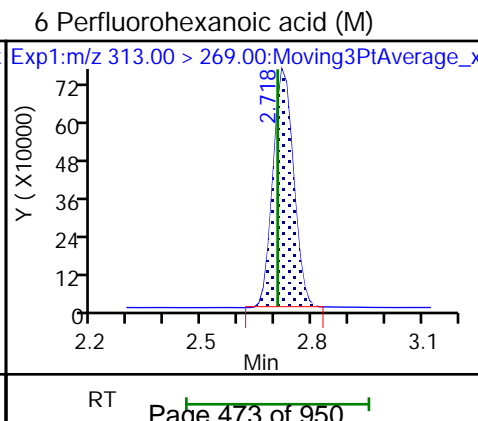
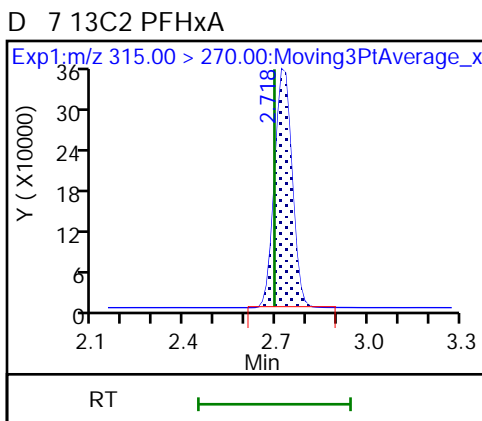
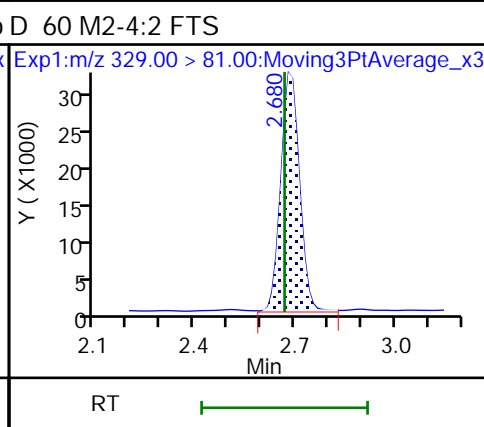
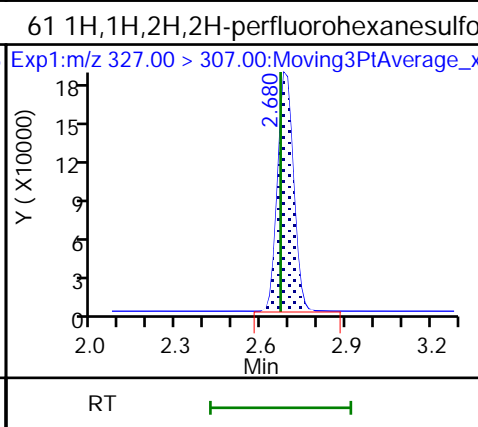
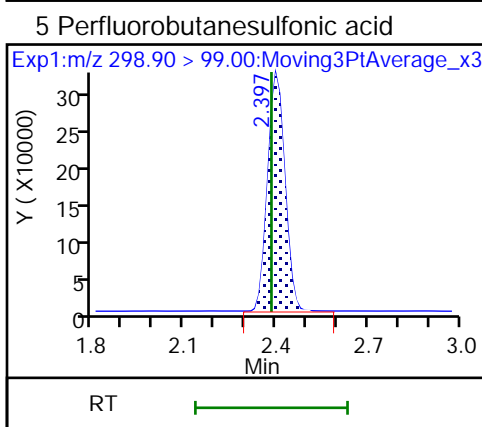
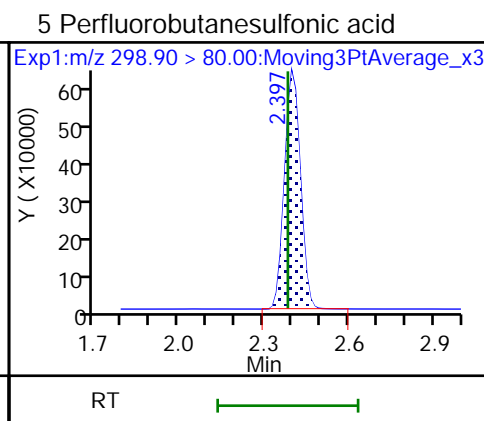
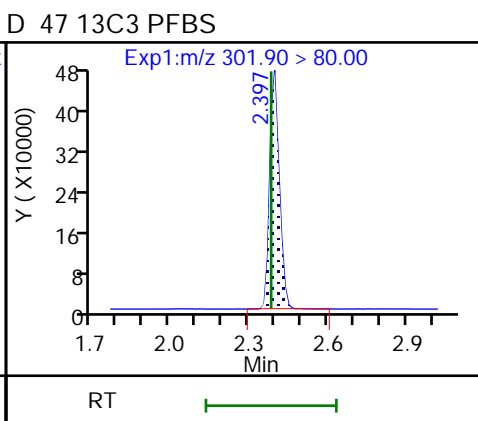
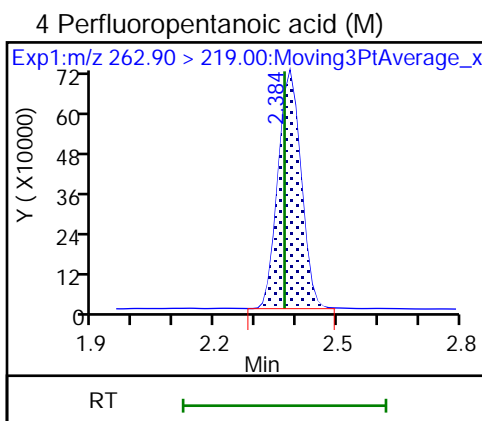
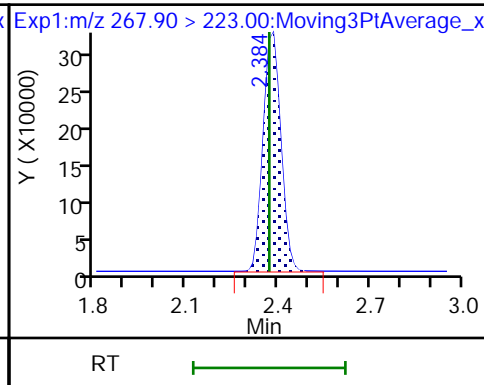
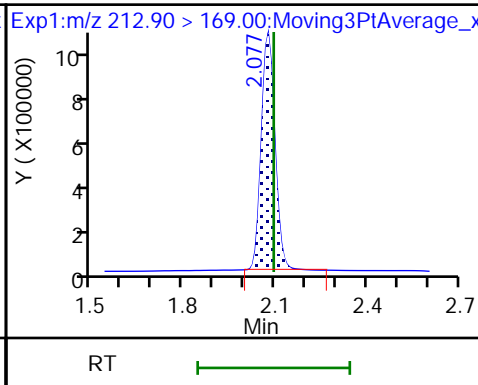
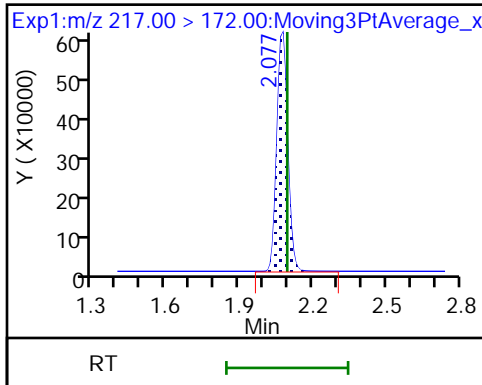
Method: PFC_LC812

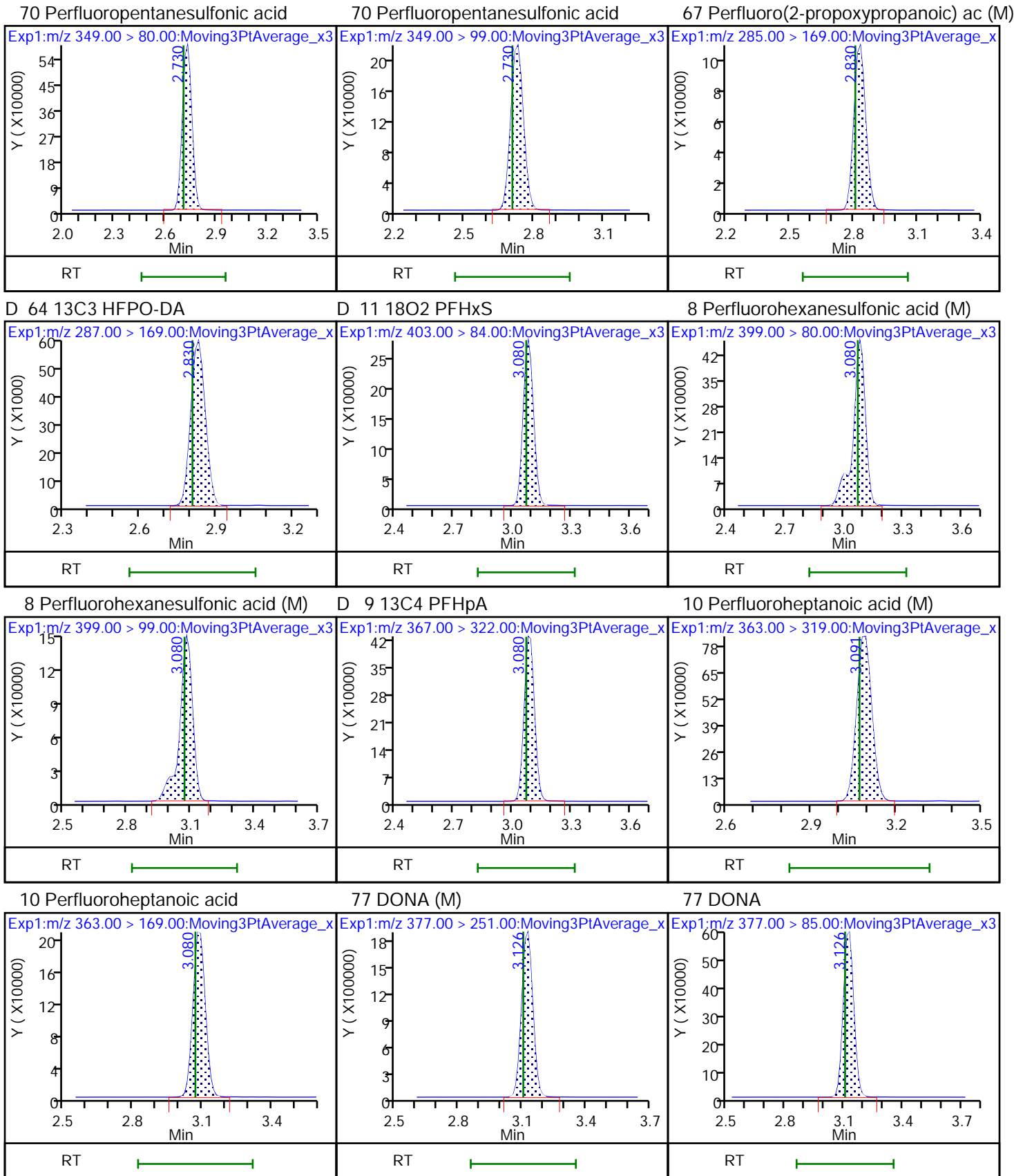
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

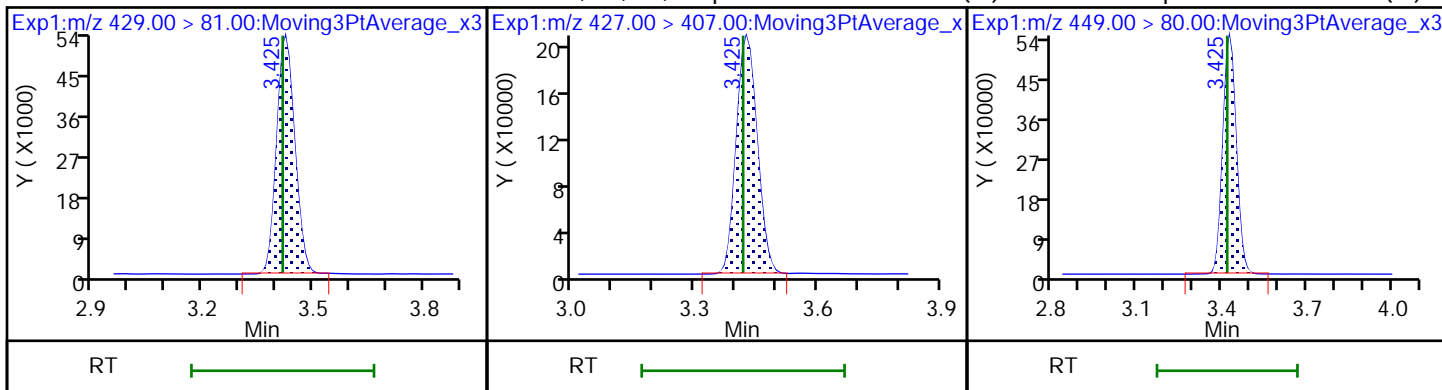
D 3 13C5 PFPeA





D 12 M2-6:2 FTS

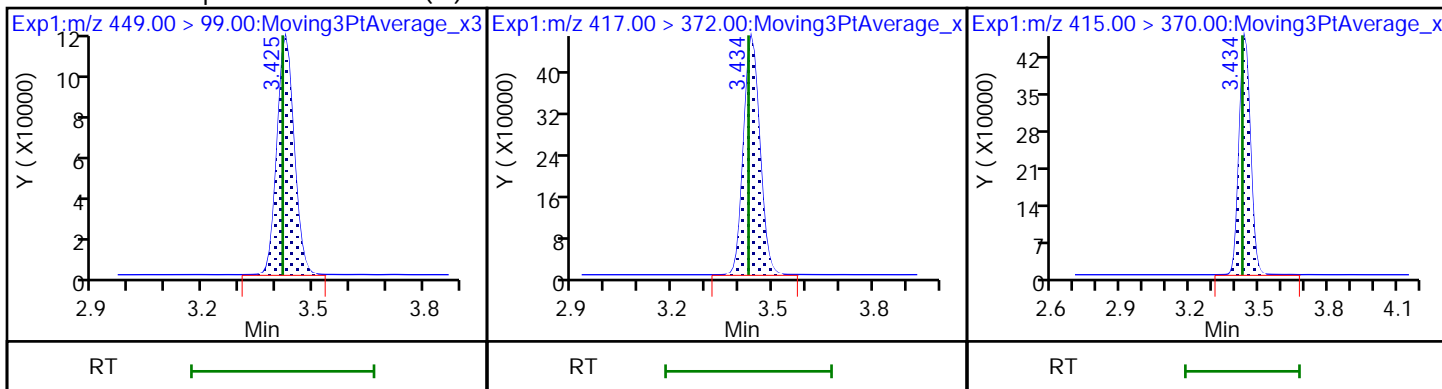
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

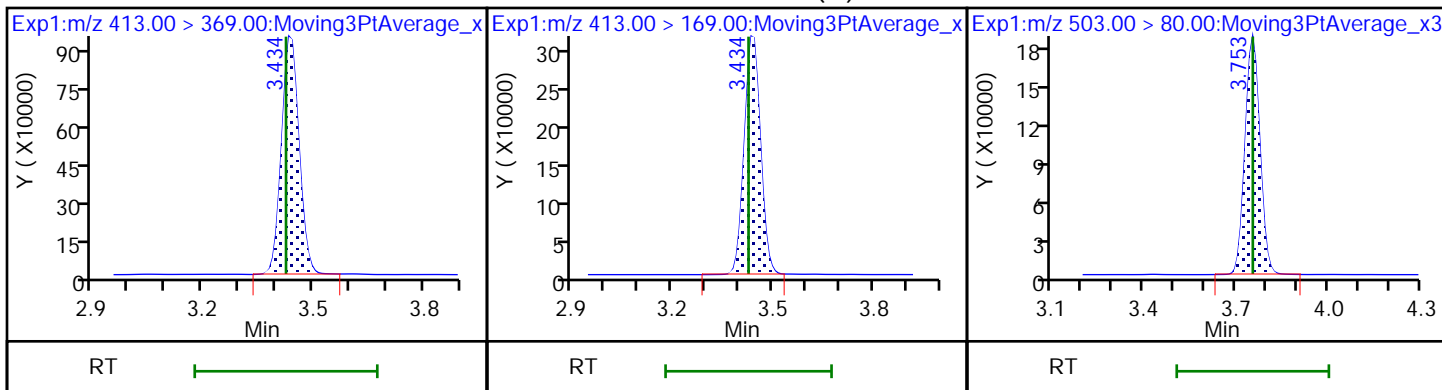
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

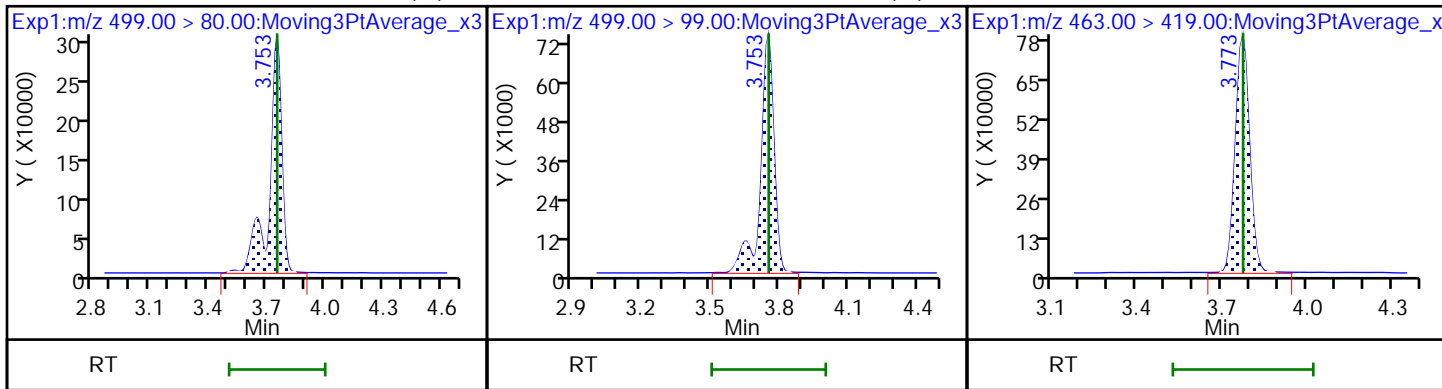
D 18 13C4 PFOS

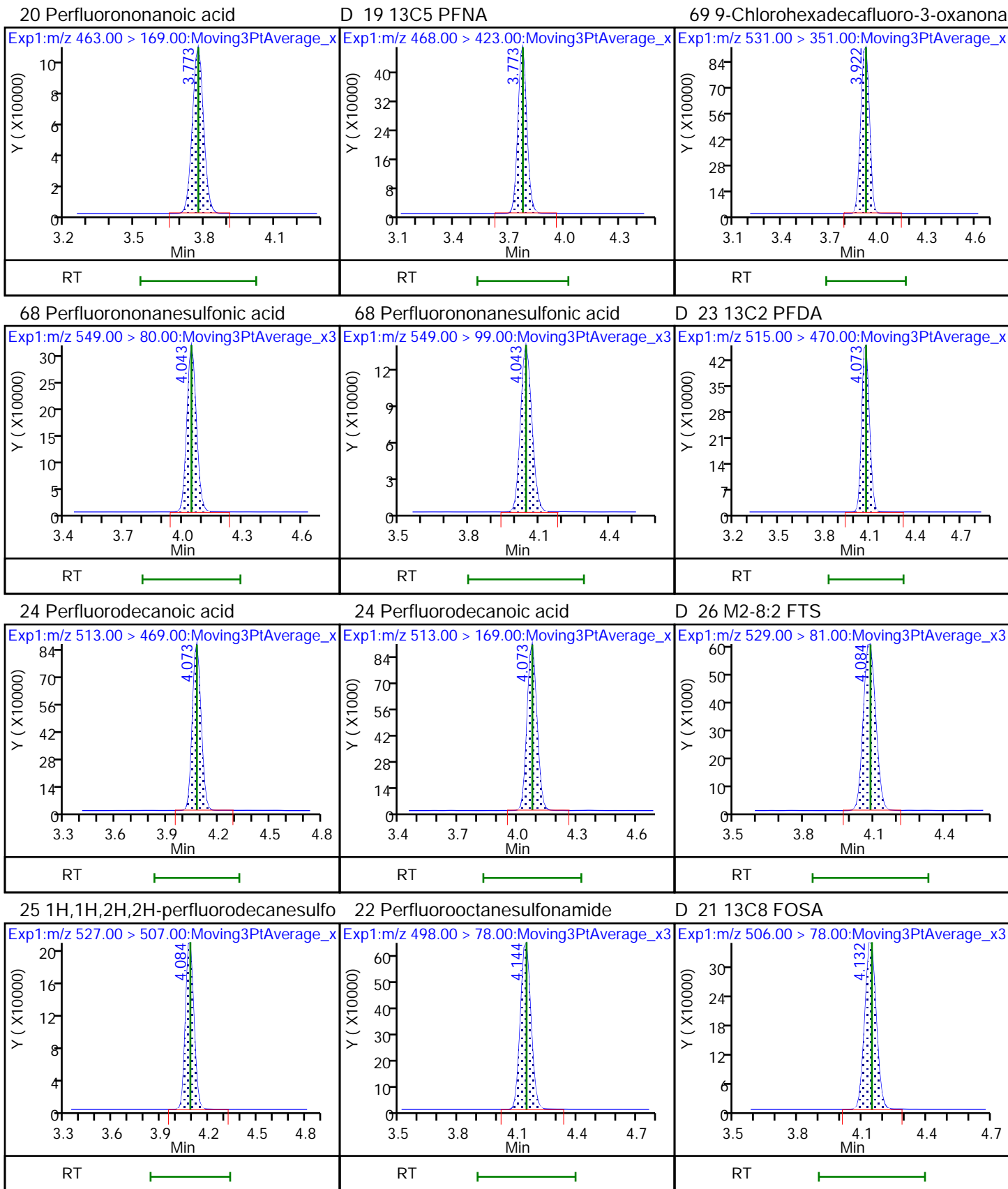


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

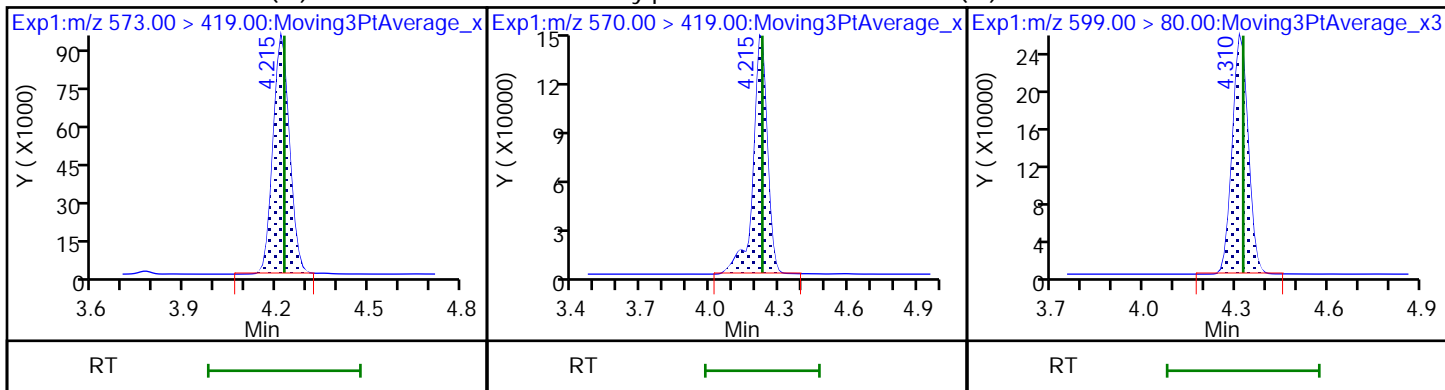
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA (M)

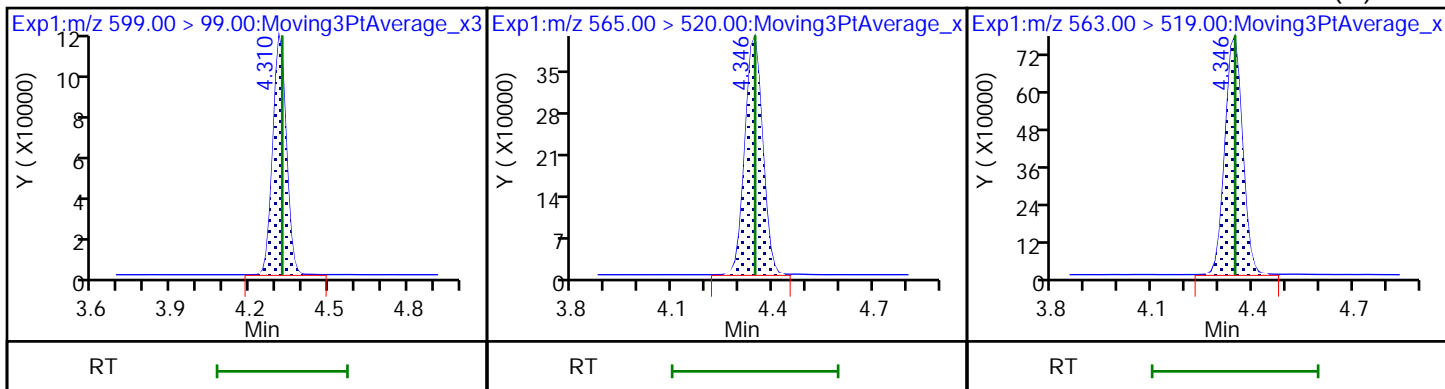
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

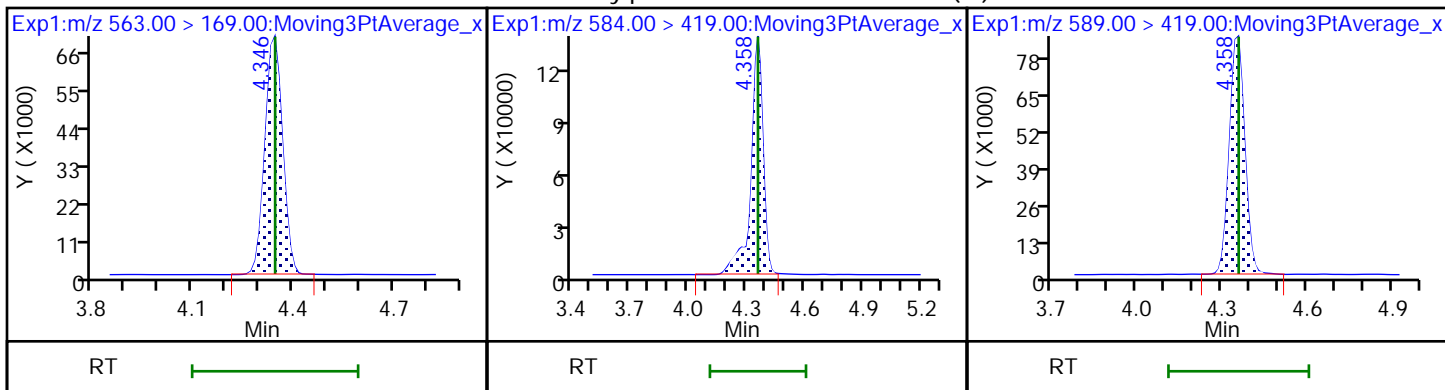
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

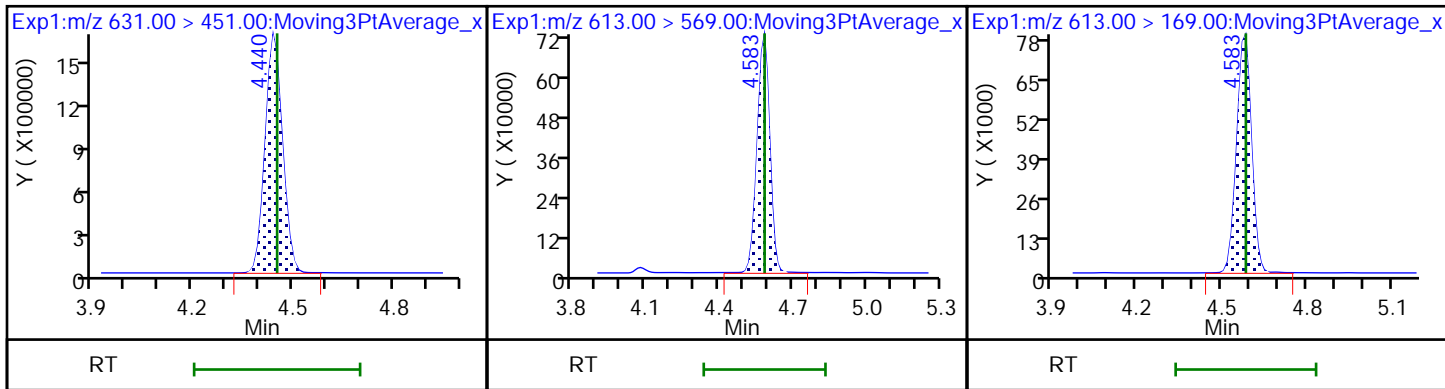
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

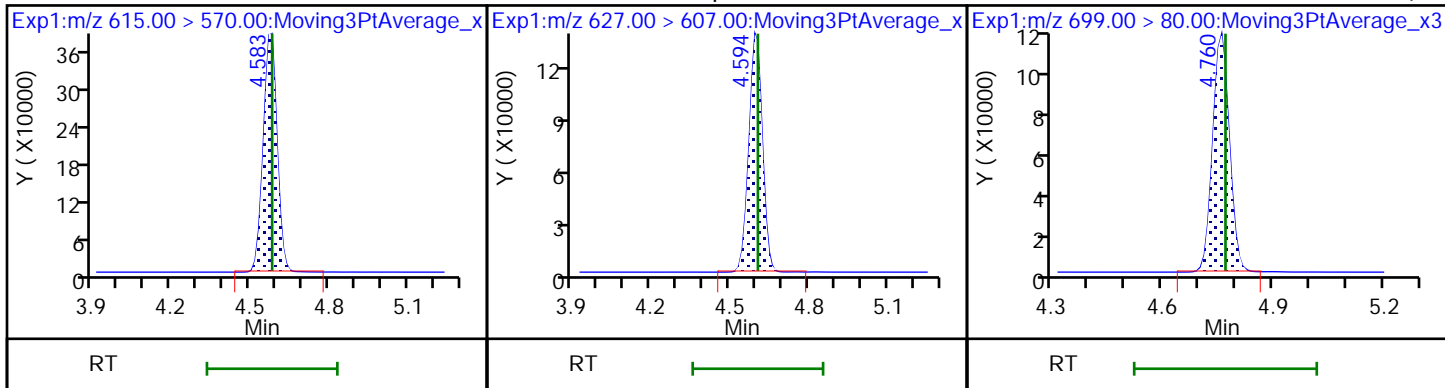
37 Perfluorododecanoic acid



D 36 13C2 PFDoA

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

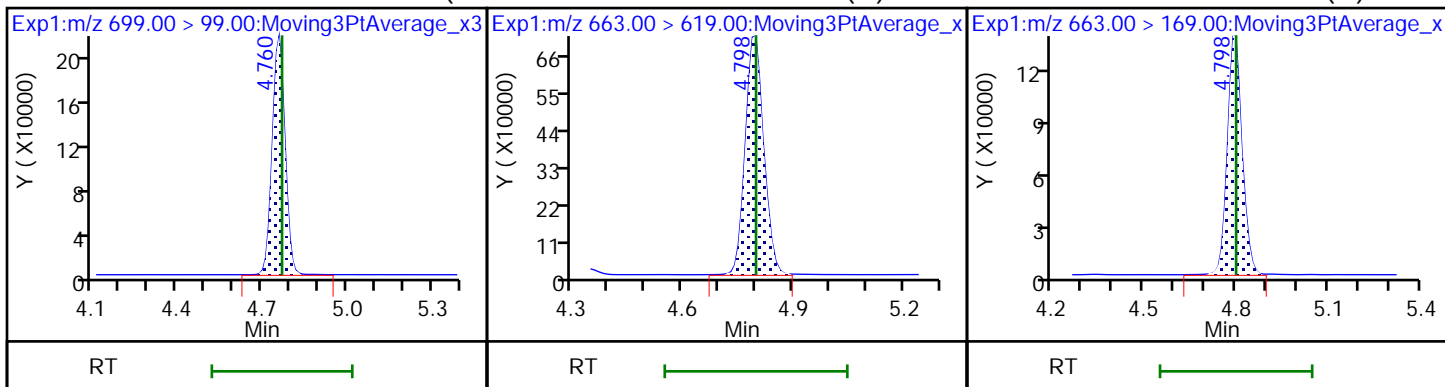
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

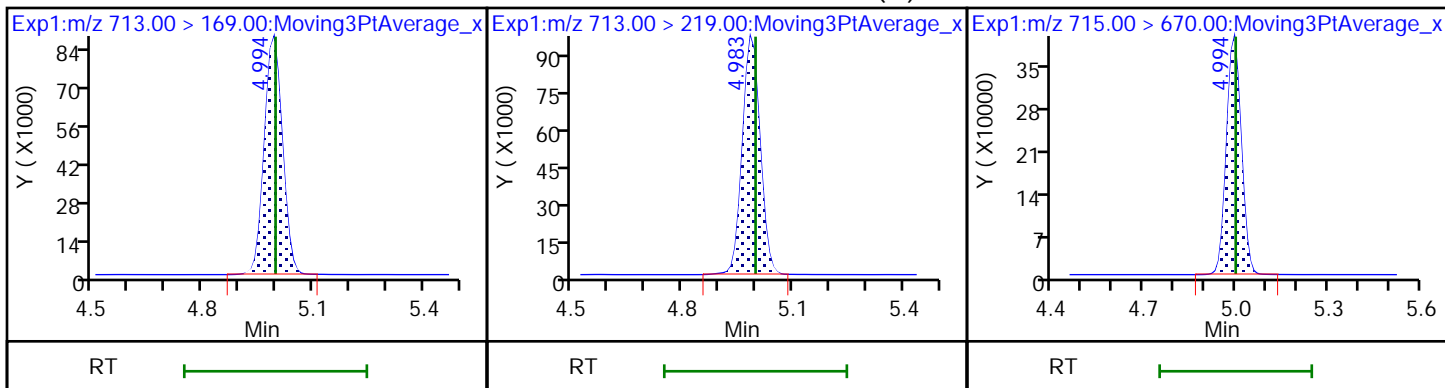
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

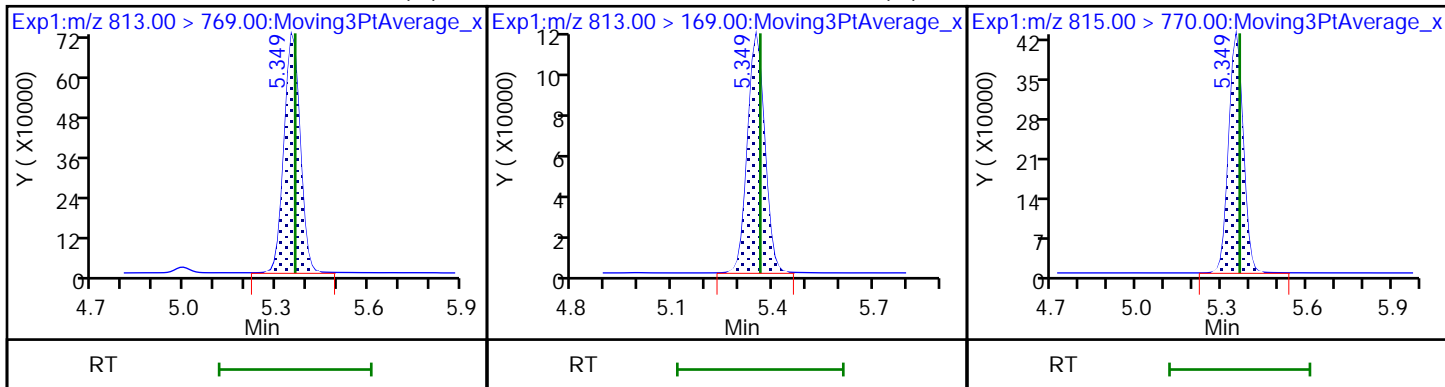
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

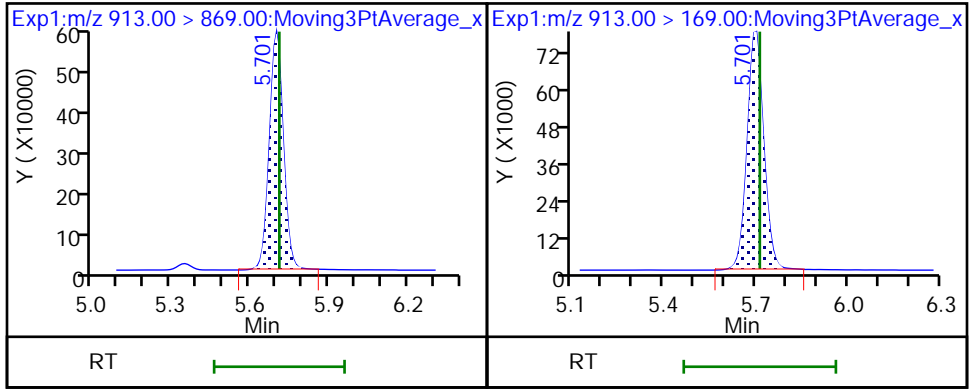
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

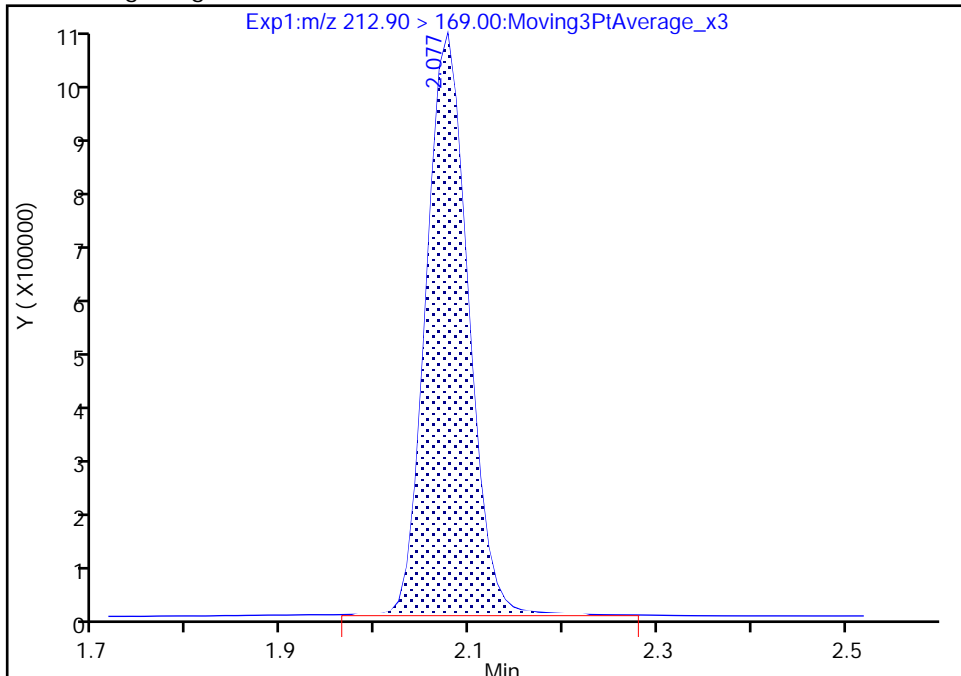
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Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

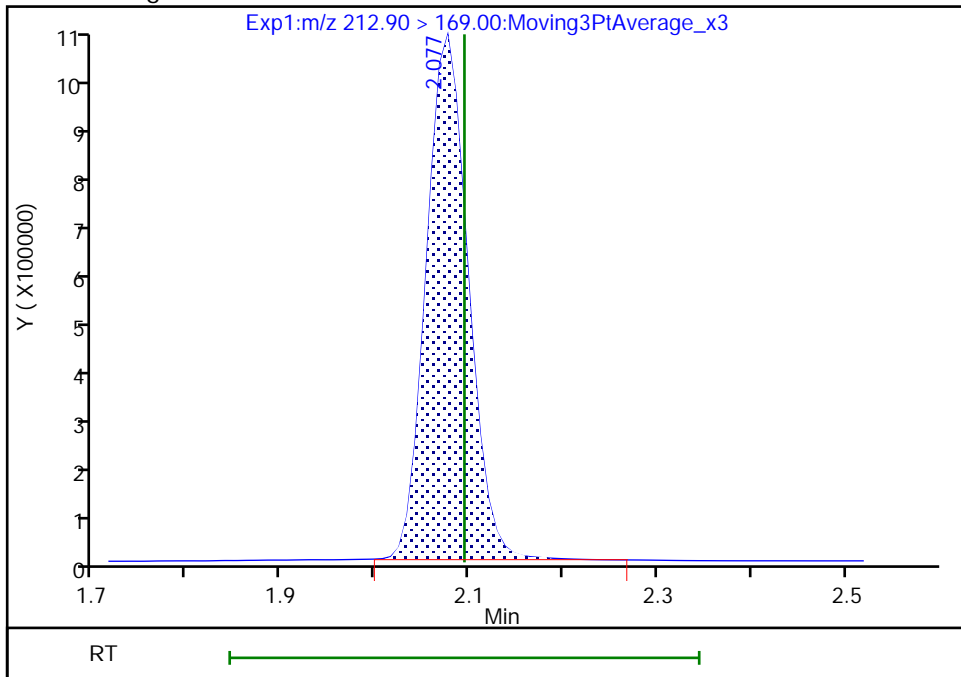
RT: 2.08
Area: 3346009
Amount: 2.311551
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 3345255
Amount: 2.311020
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:08:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 480 of 950

Eurofins Burlington

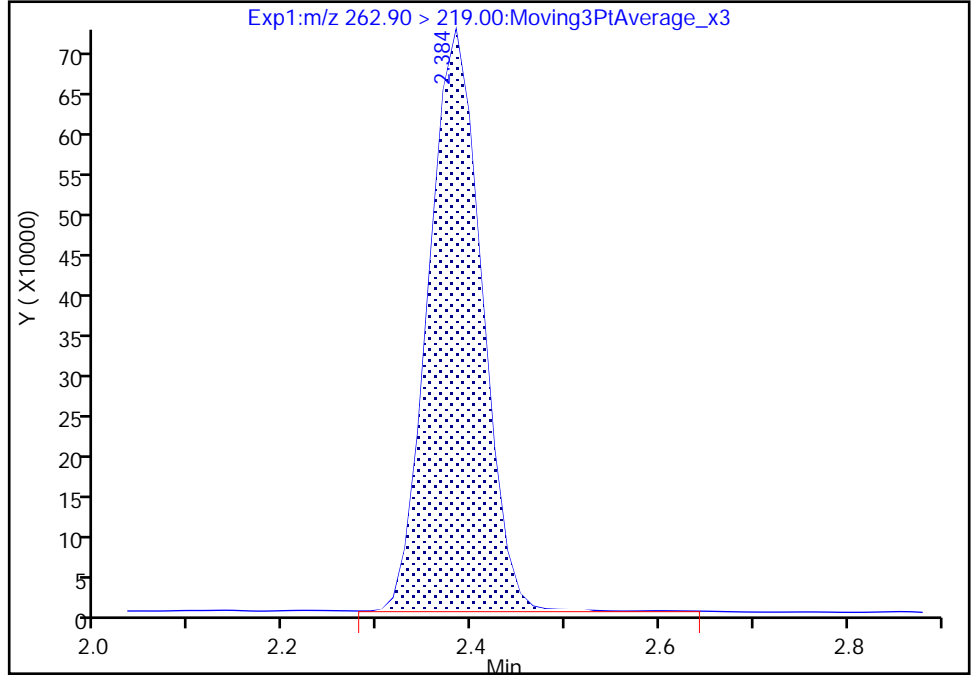
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Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

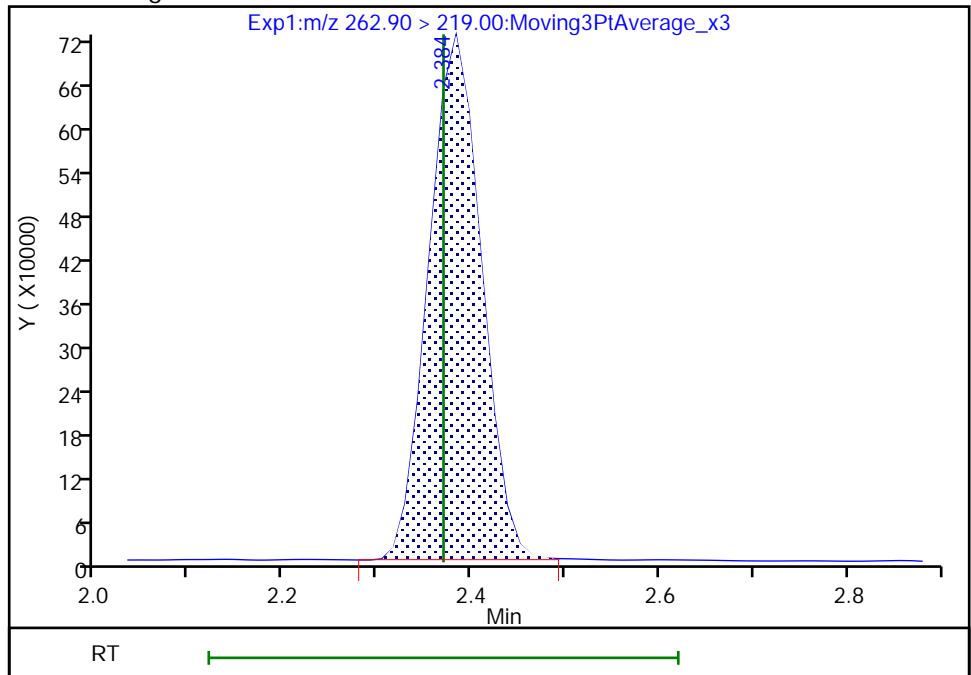
RT: 2.38
Area: 2805076
Amount: 2.352674
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 2787028
Amount: 2.337537
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:08:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

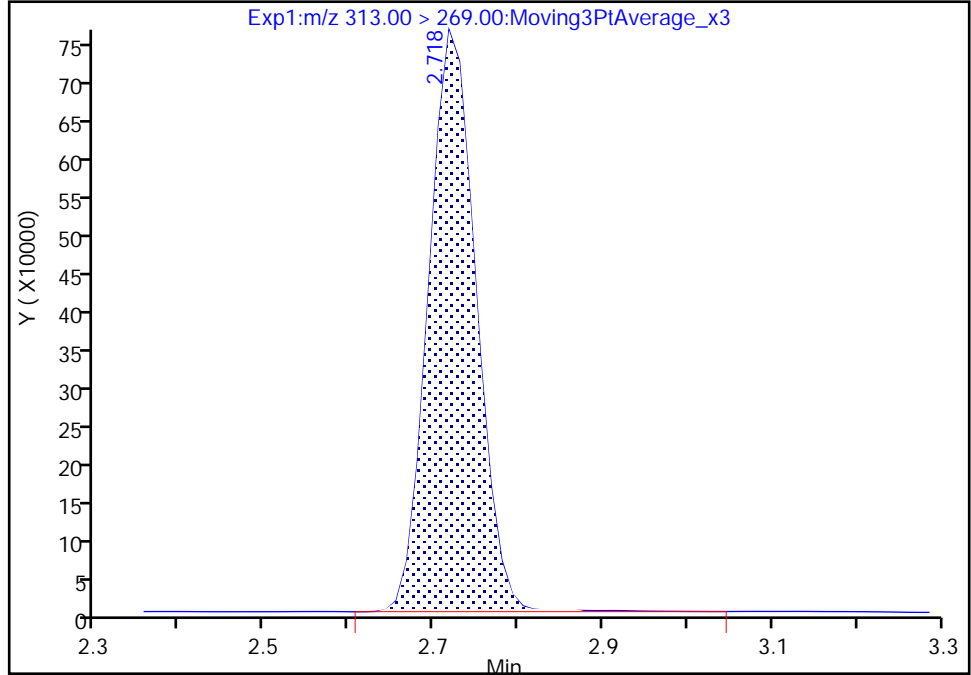
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Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

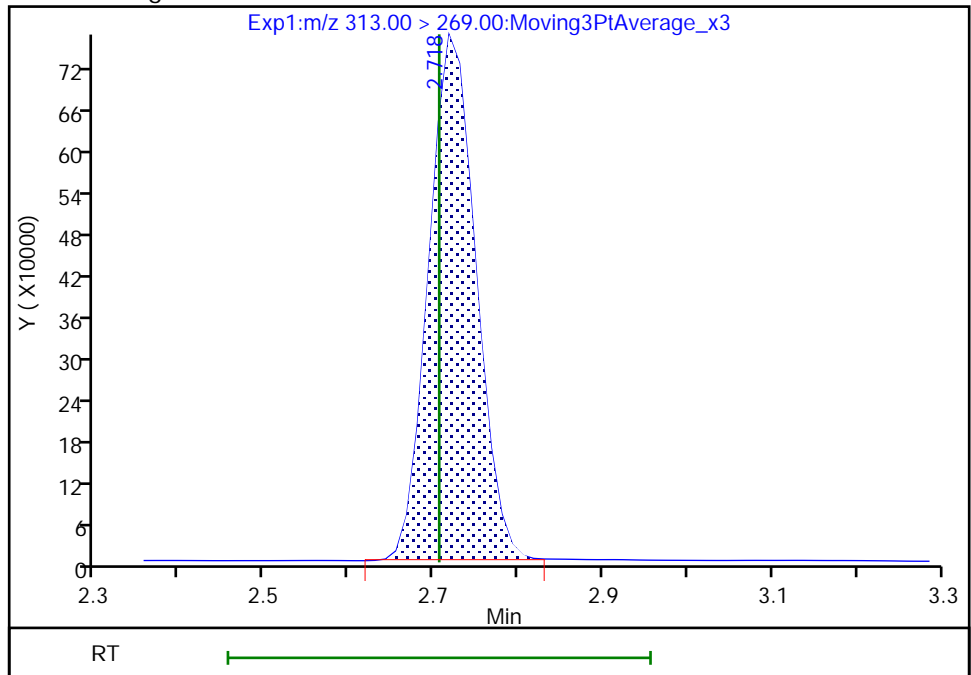
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Amount: 2.546097
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 2967334
Amount: 2.523224
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:08:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

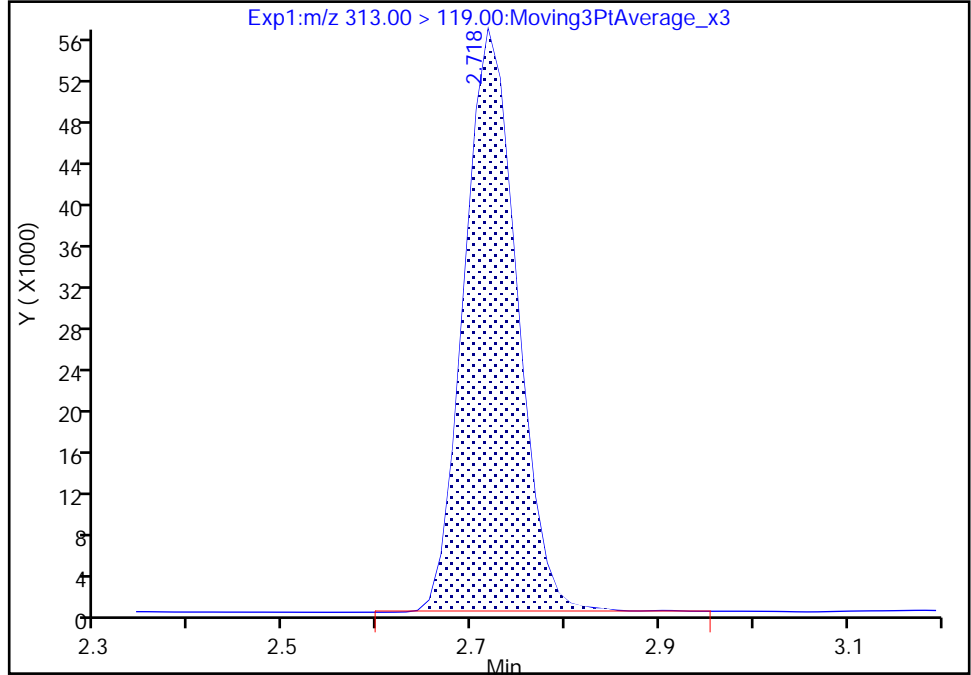
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Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

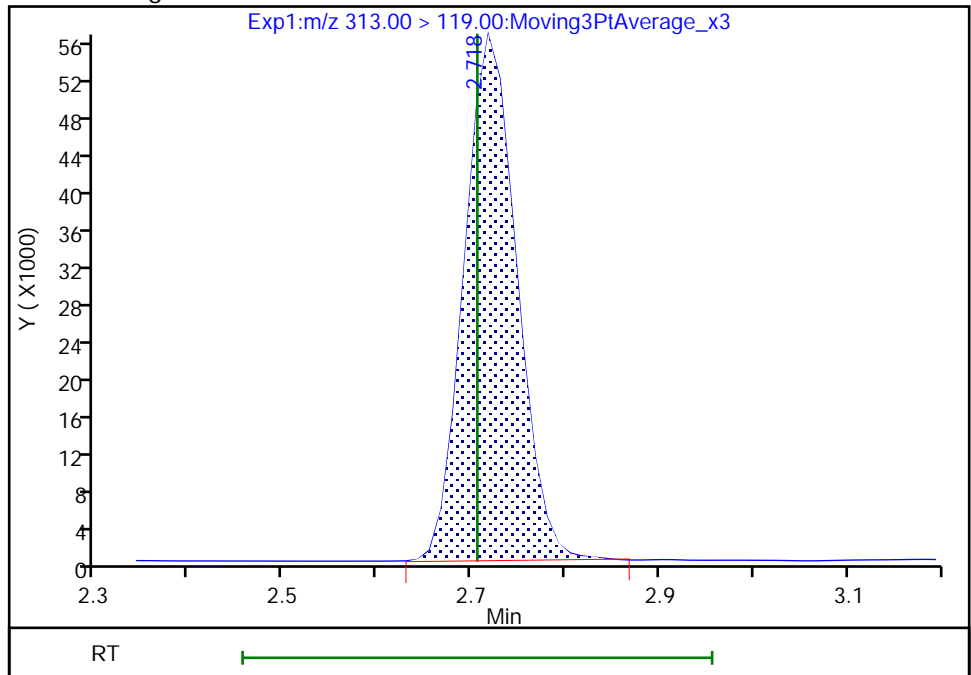
RT: 2.72
Area: 219597
Amount: 2.546097
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 218803
Amount: 2.523224
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:08:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

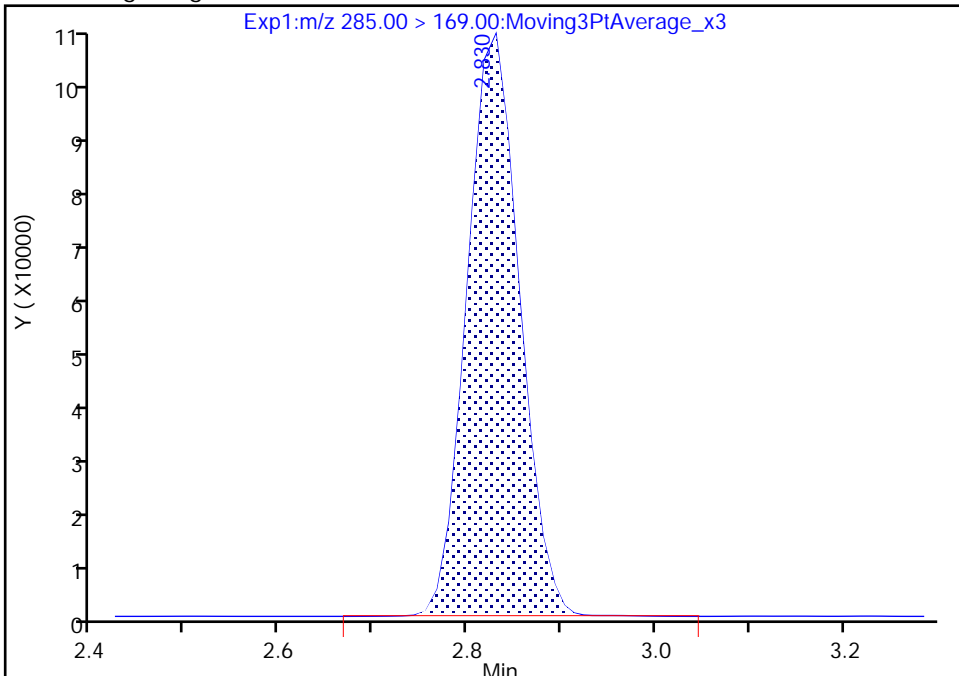
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Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

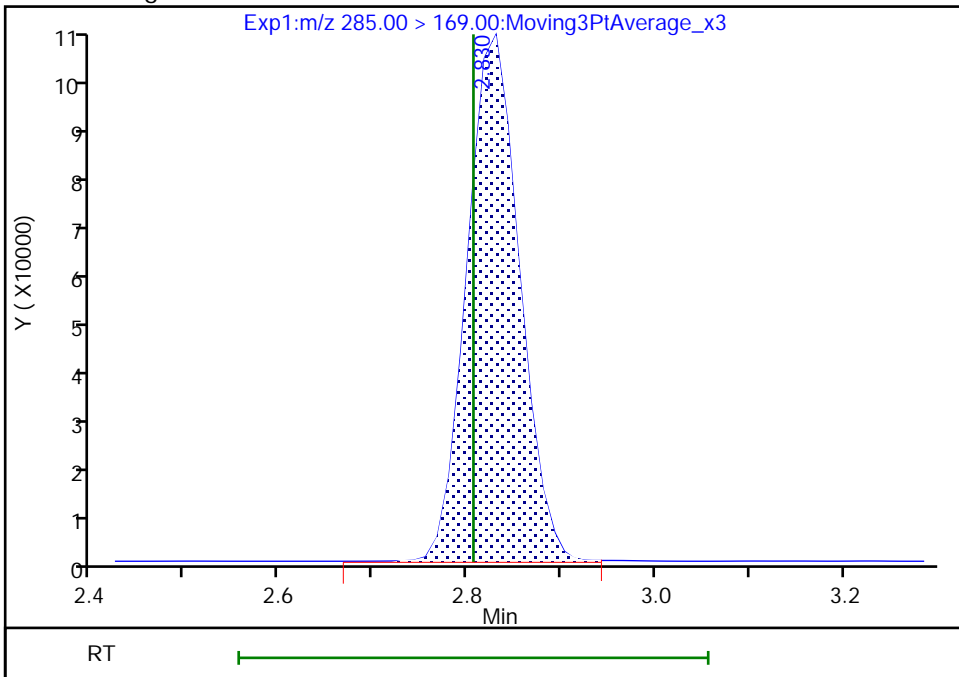
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Area: 399702
Amount: 2.096255
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 399268
Amount: 2.093979
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:09:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

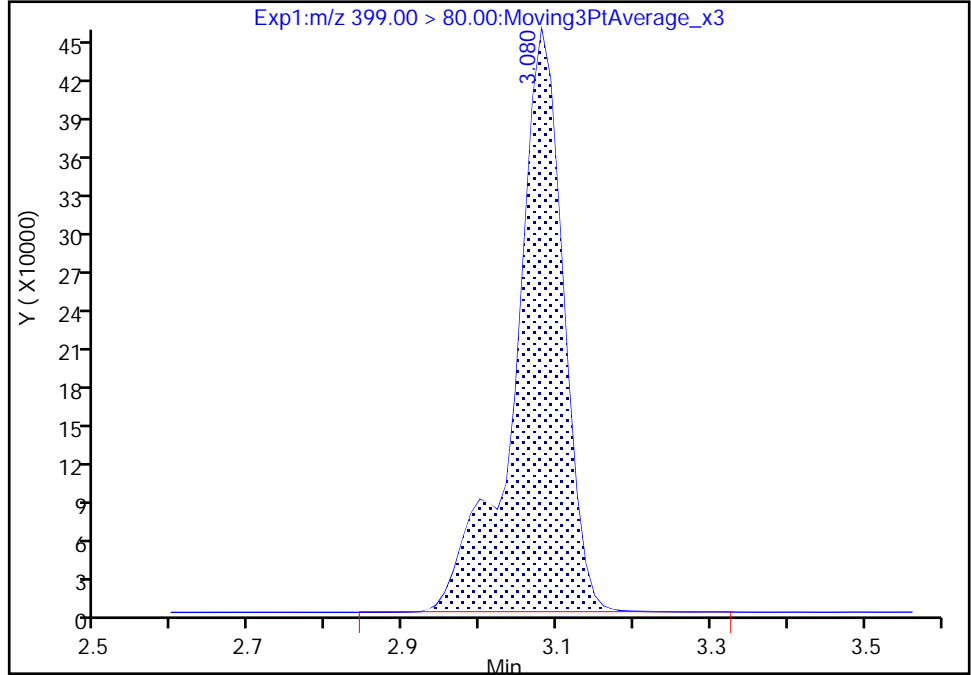
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Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

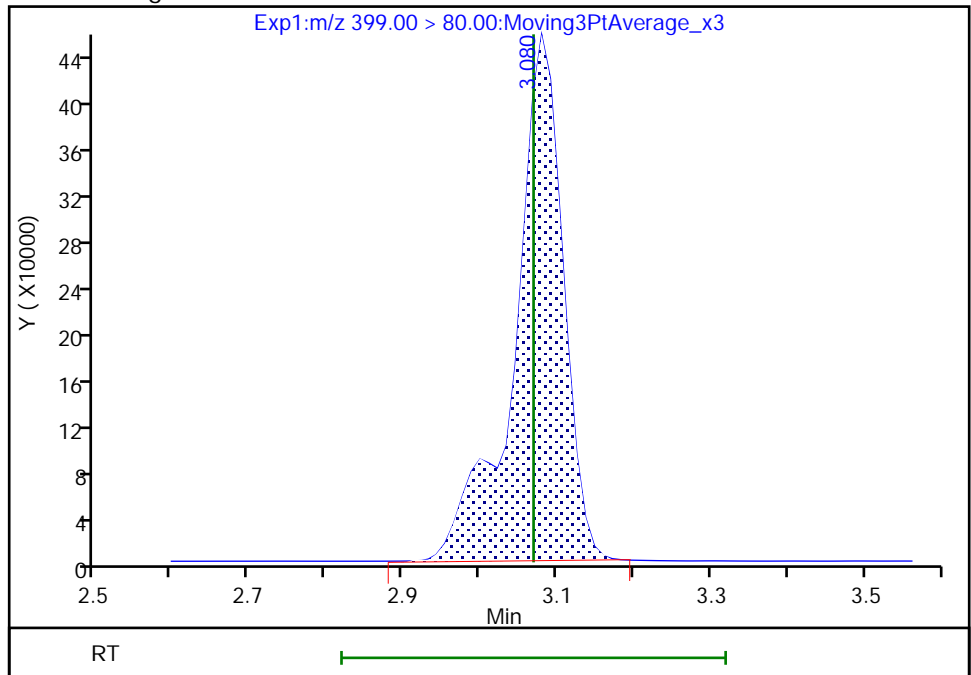
RT: 3.08
Area: 2032027
Amount: 2.186303
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 2029415
Amount: 2.183493
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:09:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

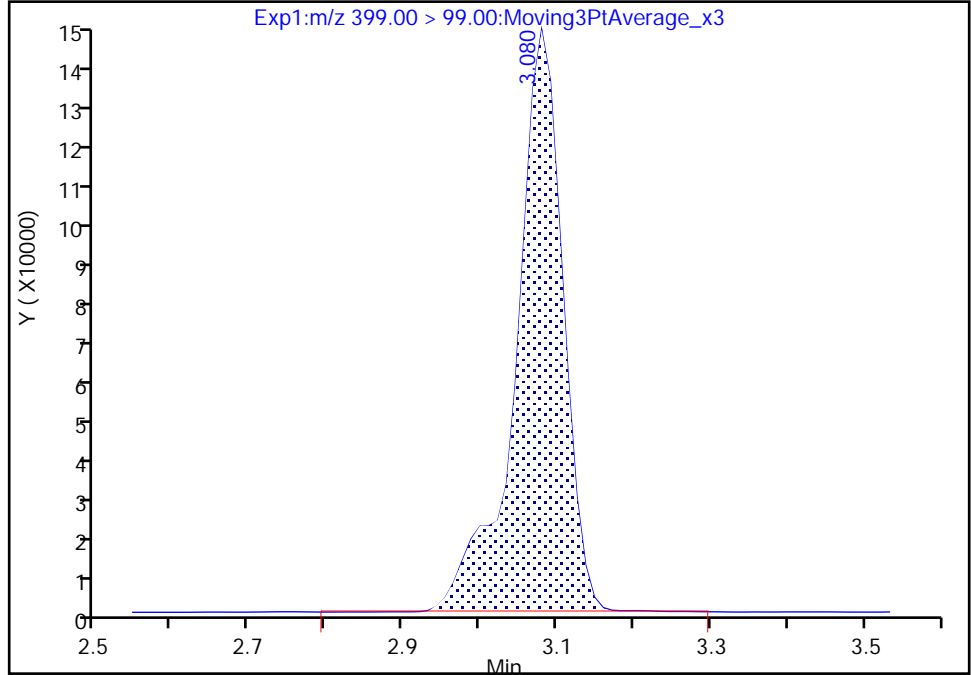
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

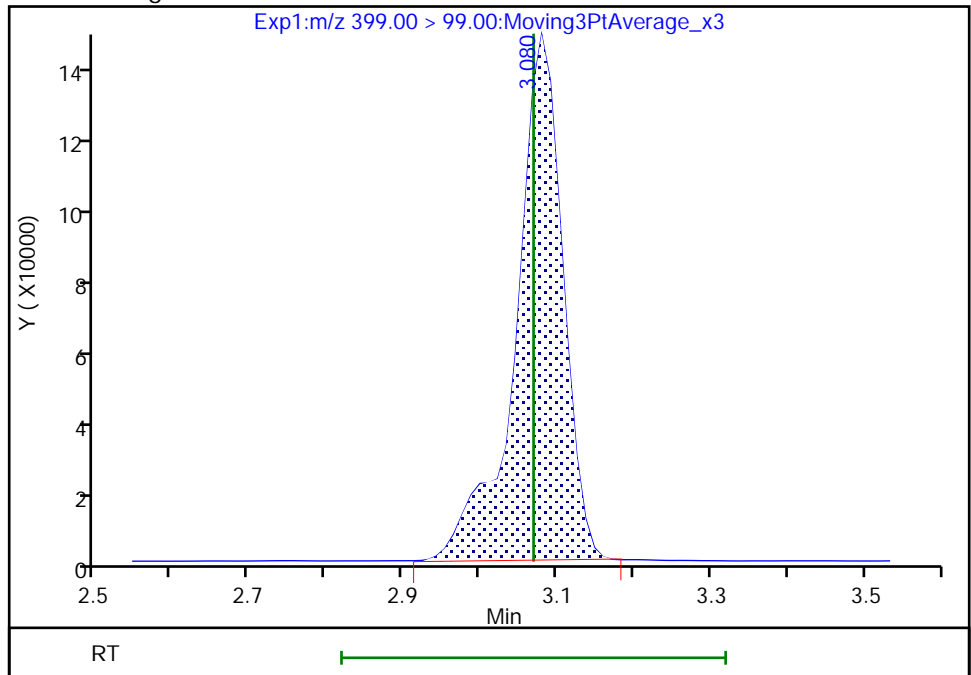
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Amount: 2.186303
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
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Amount: 2.183493
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:09:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

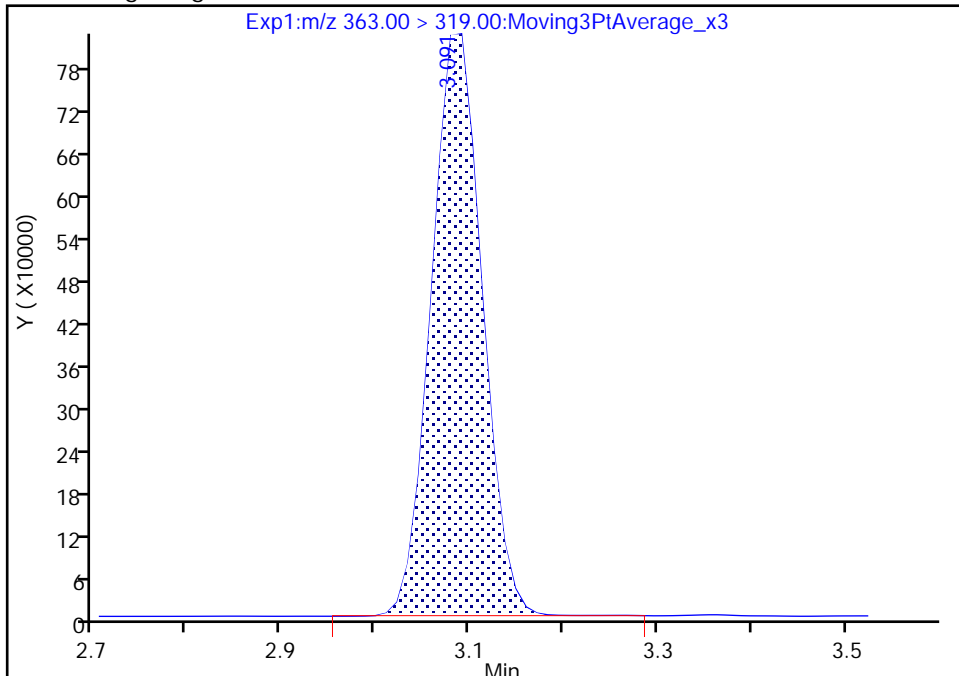
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

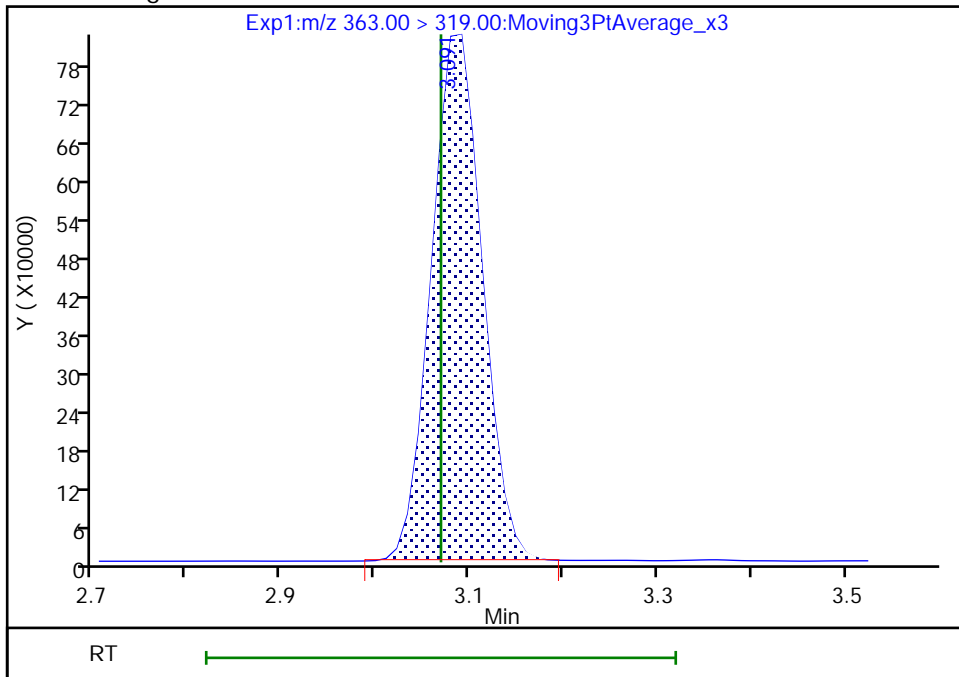
RT: 3.09
Area: 3118133
Amount: 2.329583
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3105135
Amount: 2.319873
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:09:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

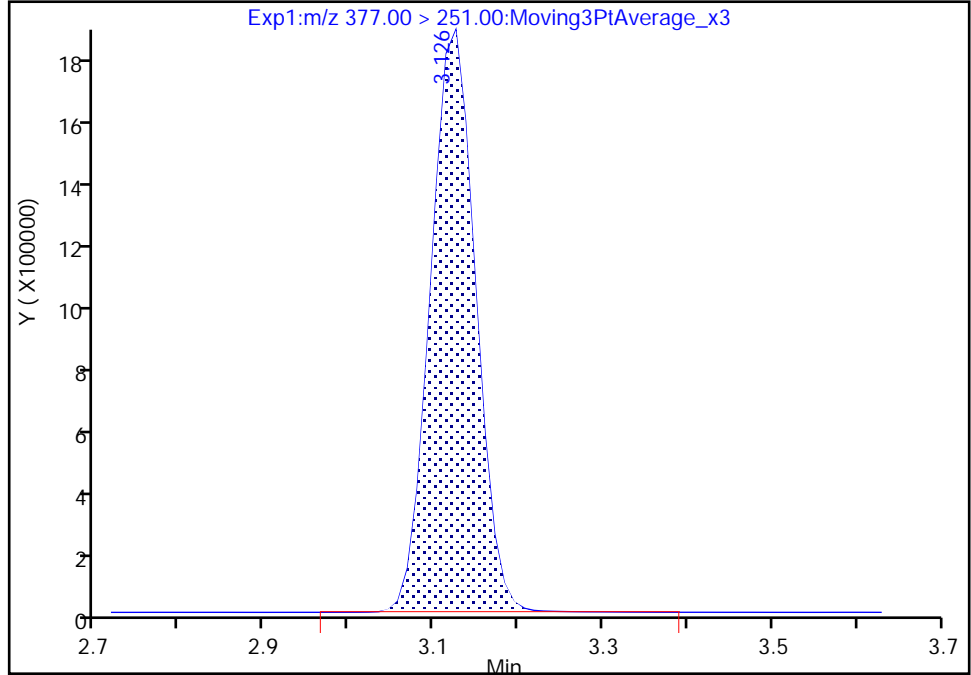
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

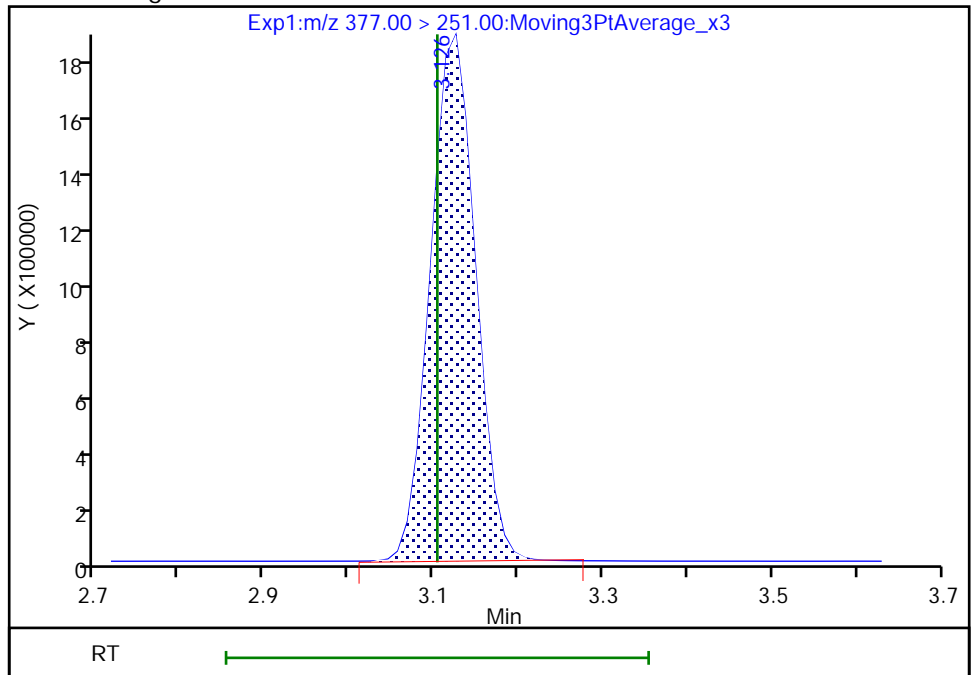
RT: 3.13
Area: 6897271
Amount: 2.279256
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 6878835
Amount: 2.273163
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:09:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

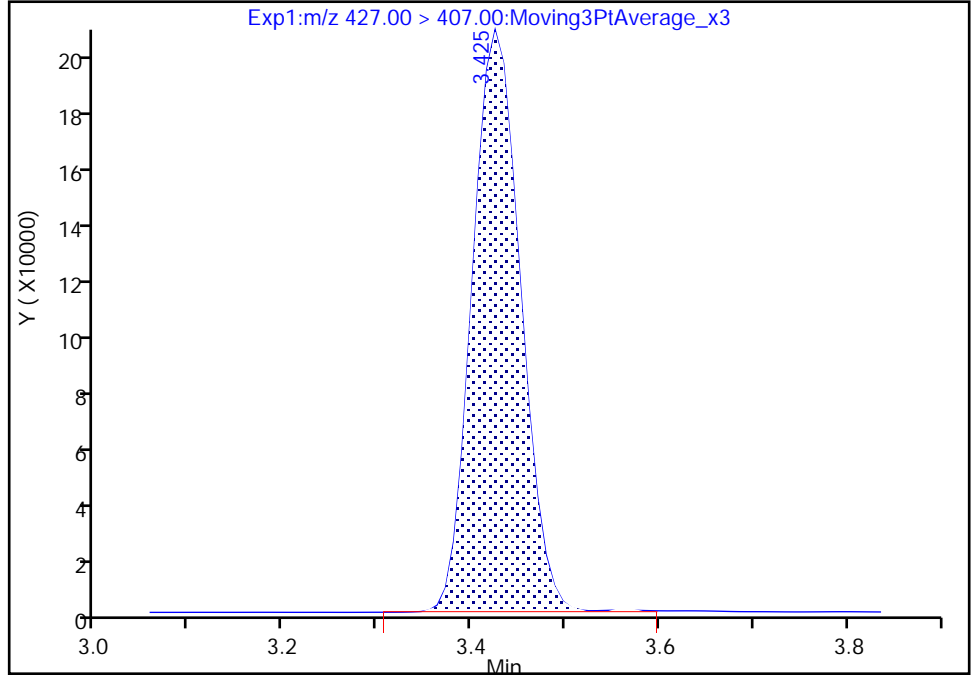
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

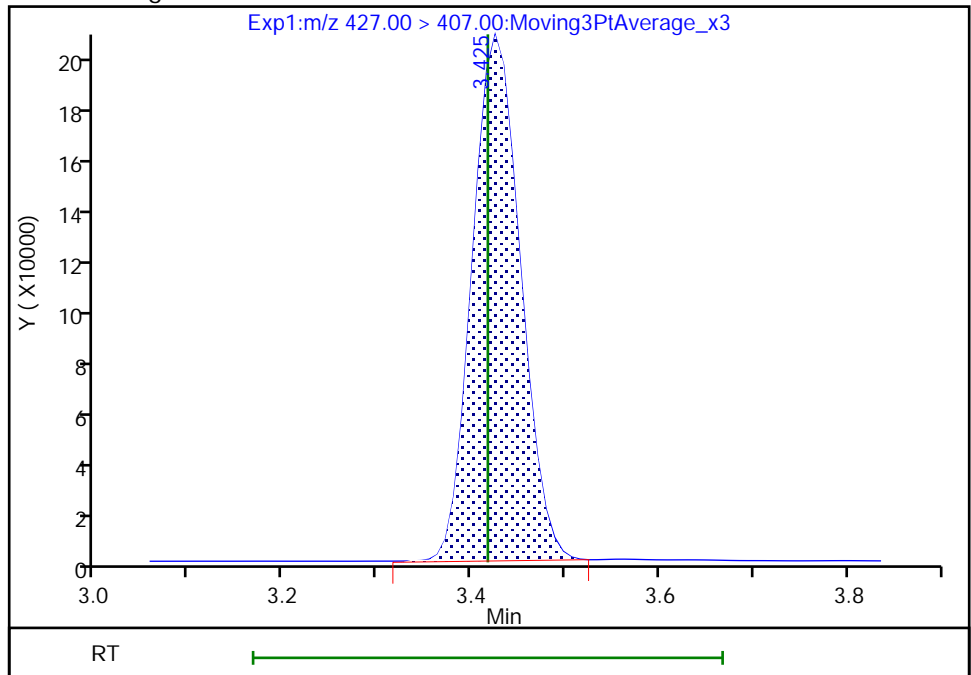
RT: 3.42
Area: 743489
Amount: 2.101837
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 741514
Amount: 2.096254
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:09:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

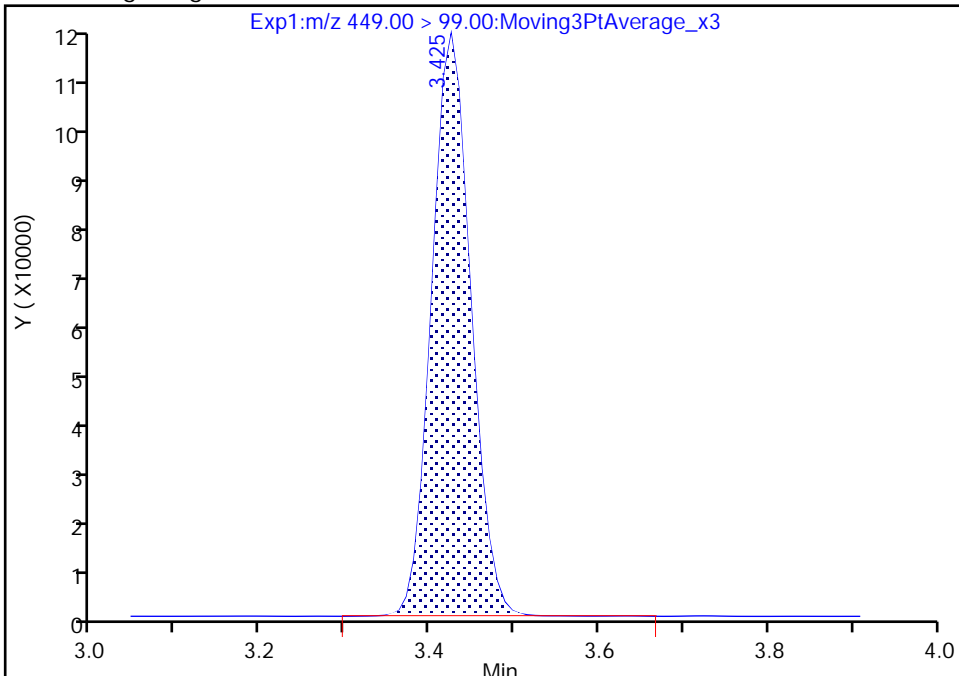
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

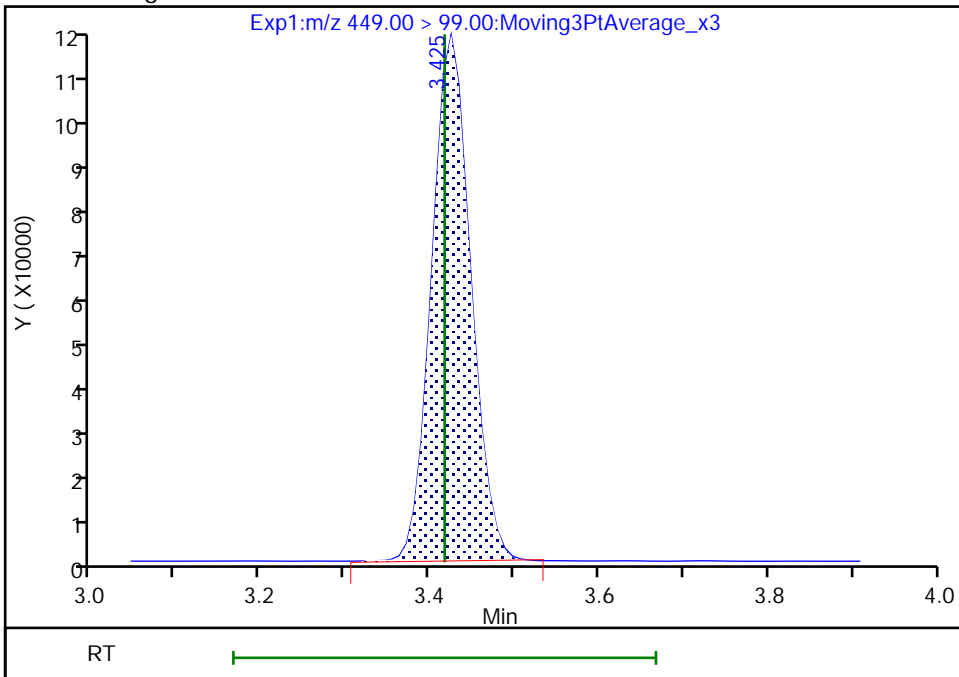
RT: 3.42
Area: 384653
Amount: 2.326176
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 383085
Amount: 2.322837
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:09:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

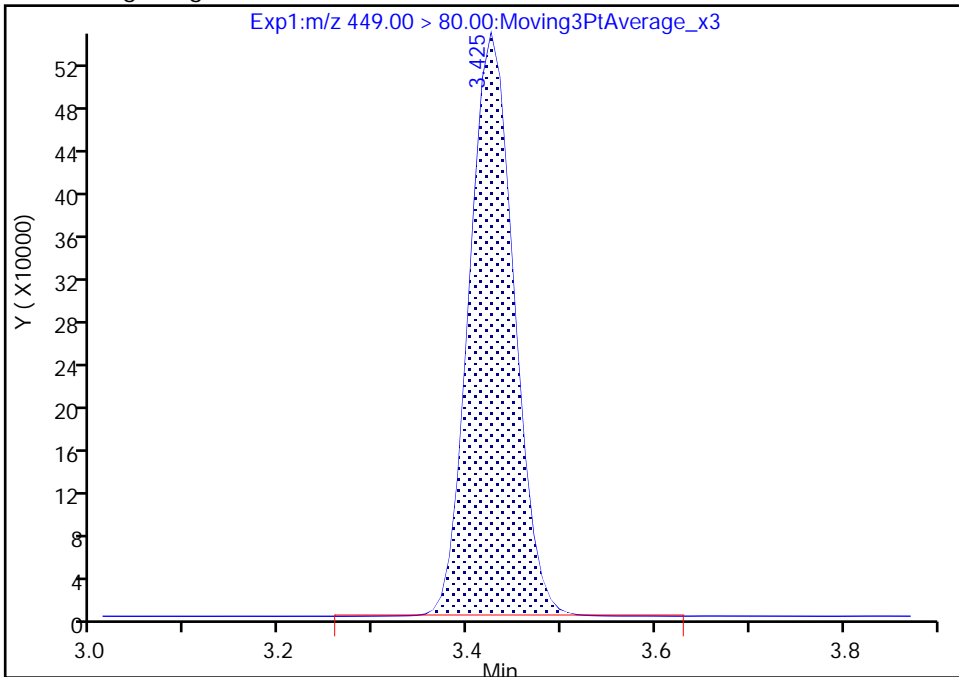
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

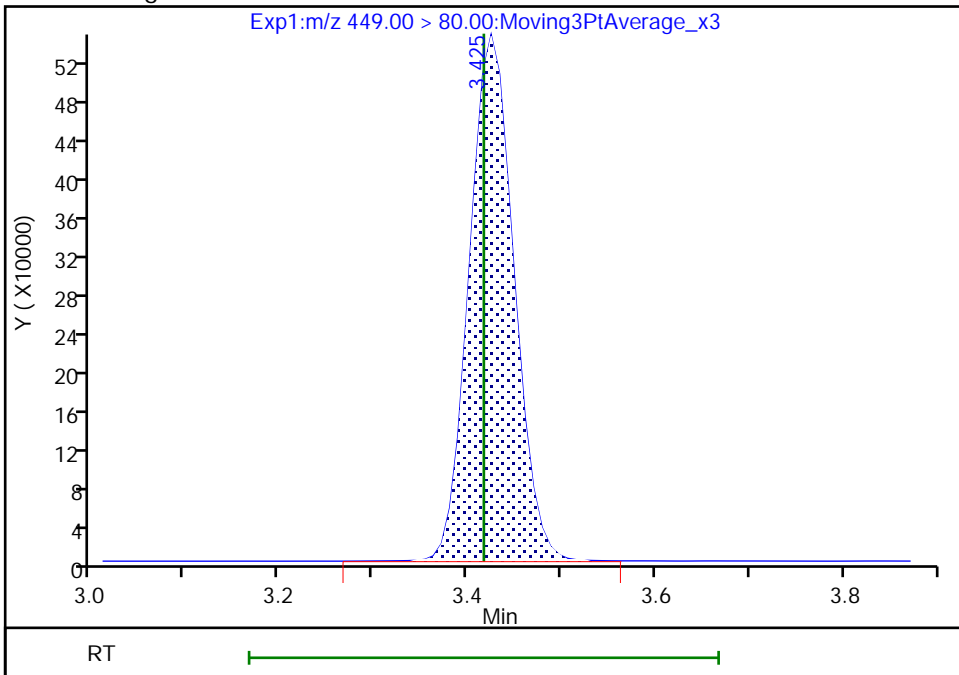
RT: 3.42
Area: 1786213
Amount: 2.326176
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 1783649
Amount: 2.322837
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:10:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

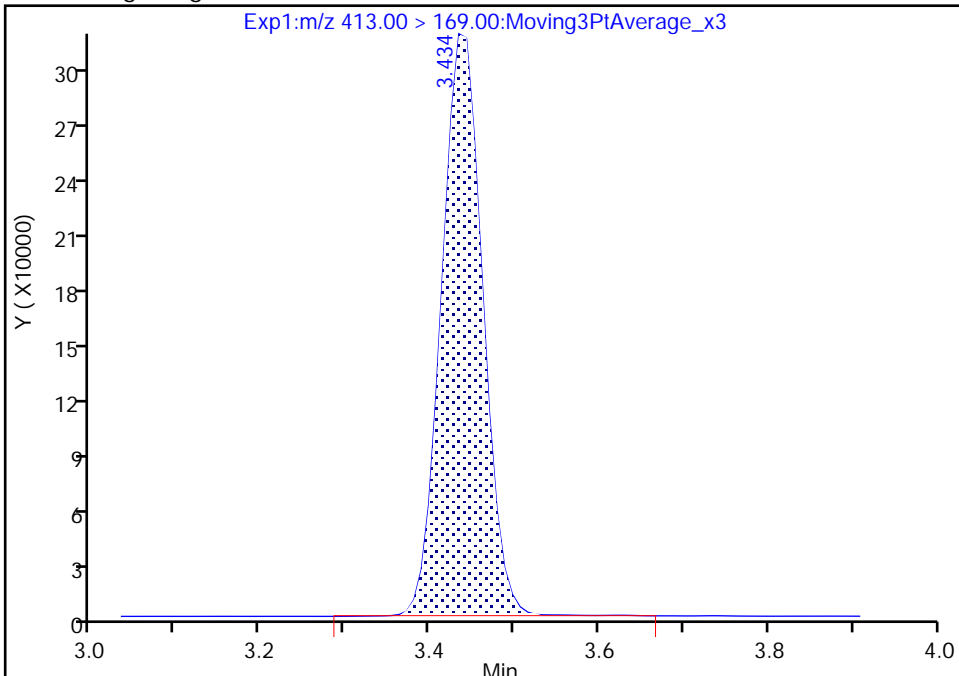
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

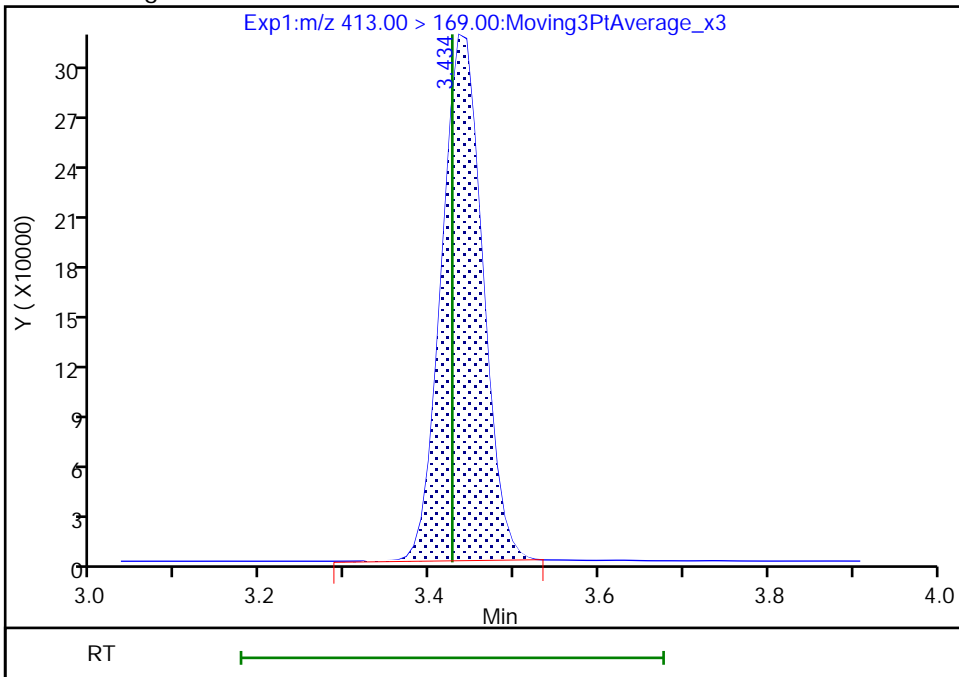
RT: 3.43
Area: 1069940
Amount: 2.342421
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1067324
Amount: 2.342421
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:10:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

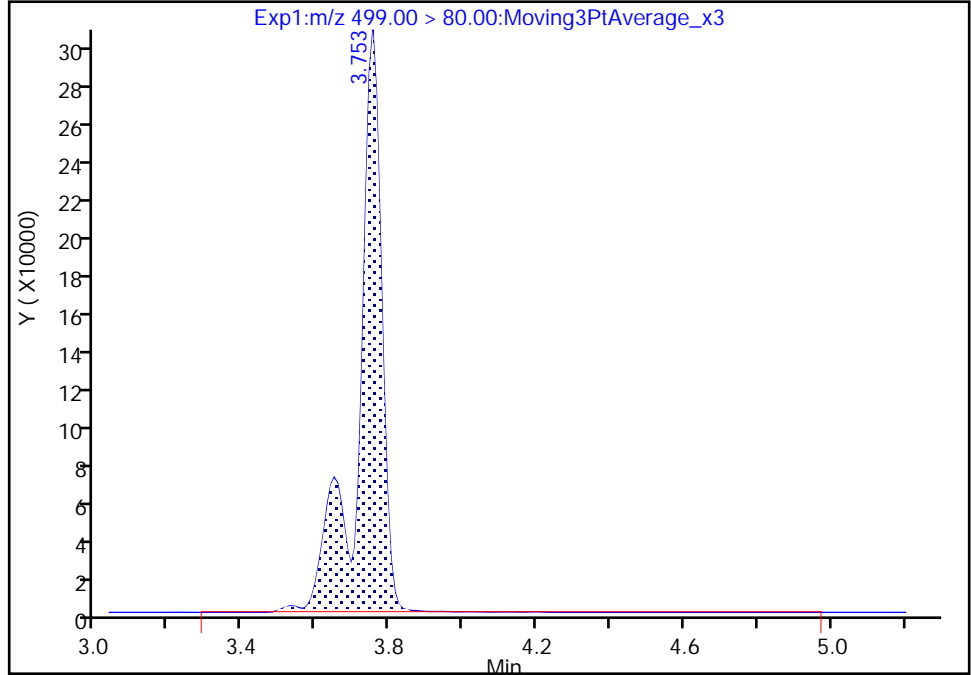
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

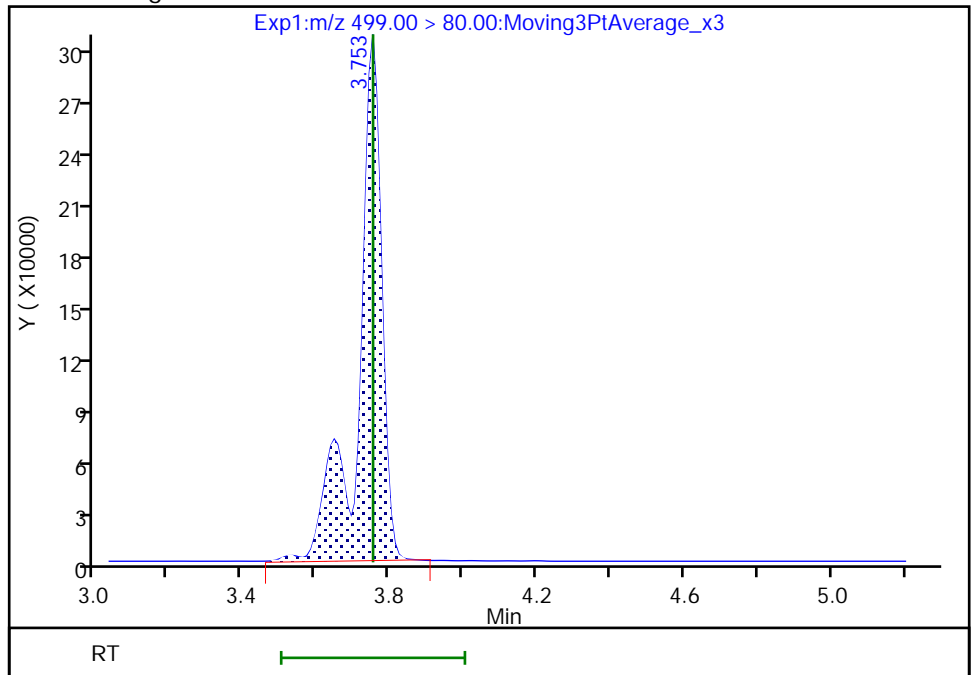
RT: 3.75
Area: 1348645
Amount: 2.103736
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1336619
Amount: 2.084977
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:10:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

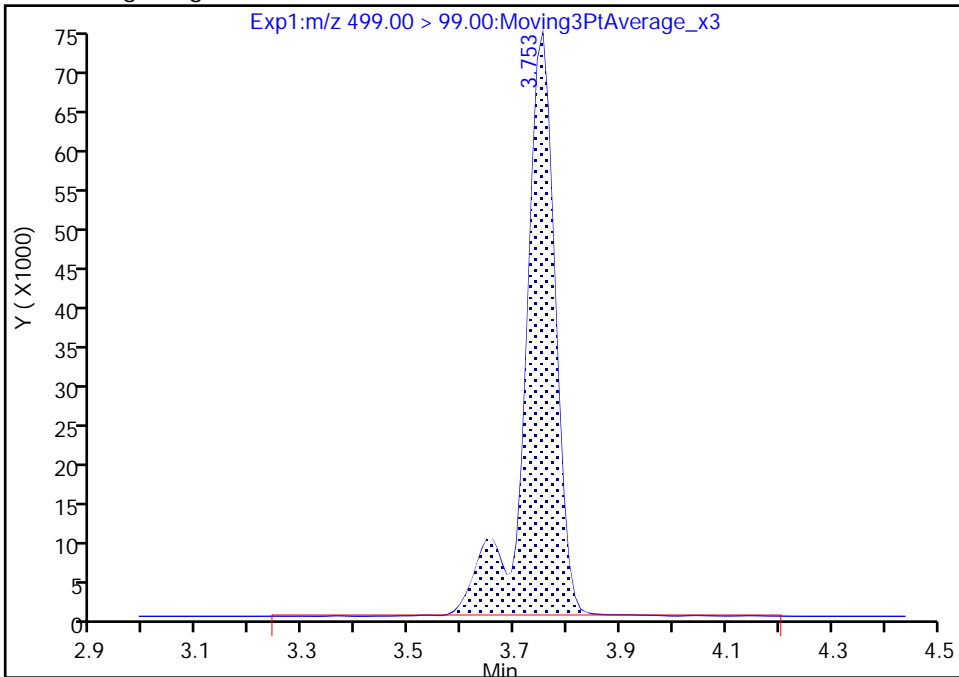
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

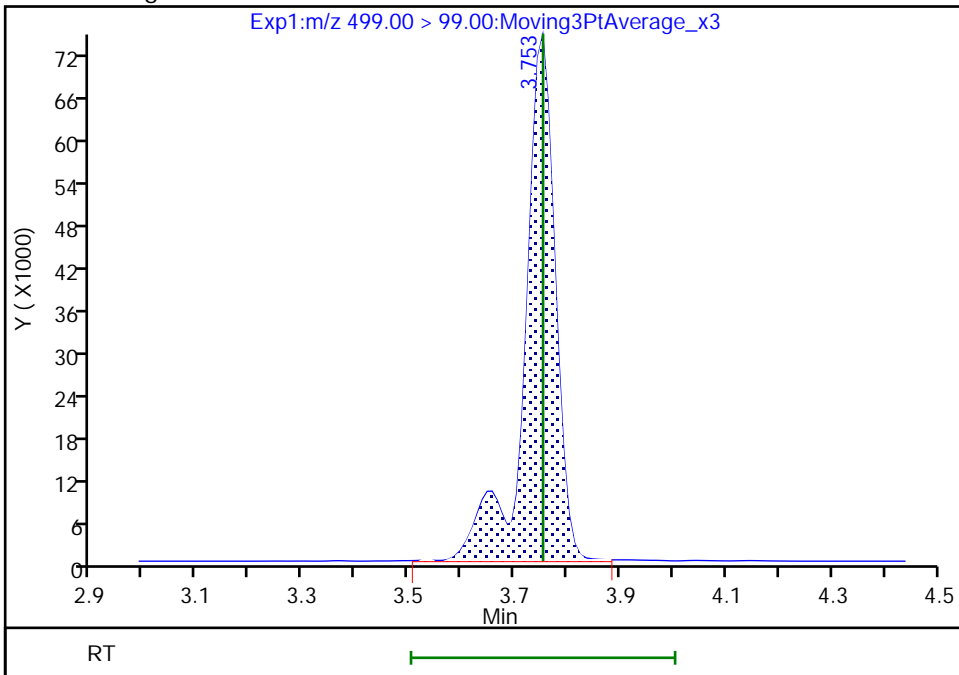
RT: 3.75
Area: 305080
Amount: 2.103736
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 303031
Amount: 2.084977
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:10:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

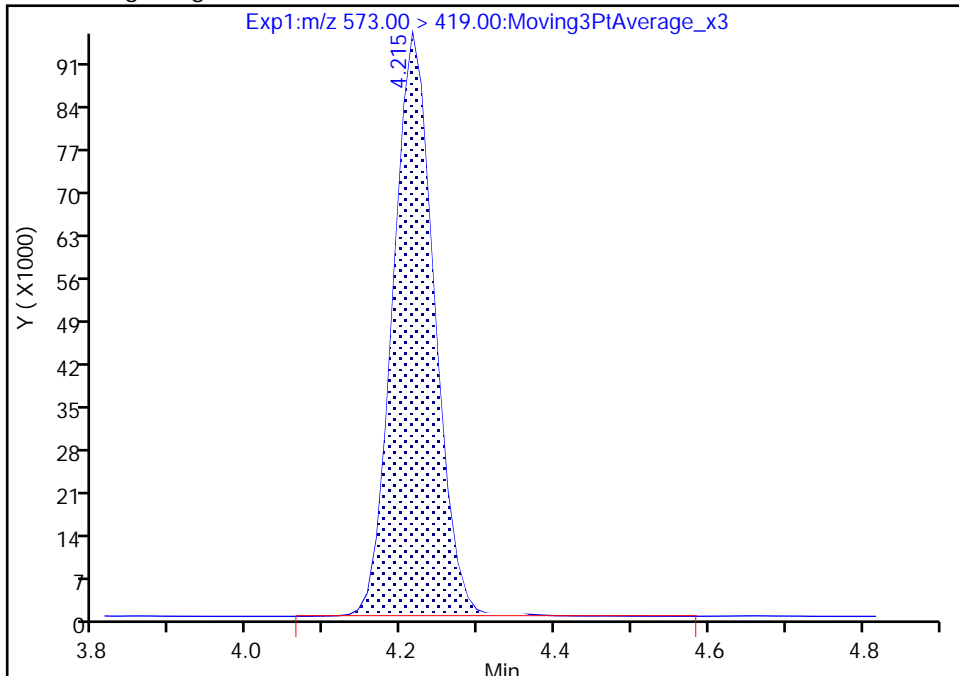
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

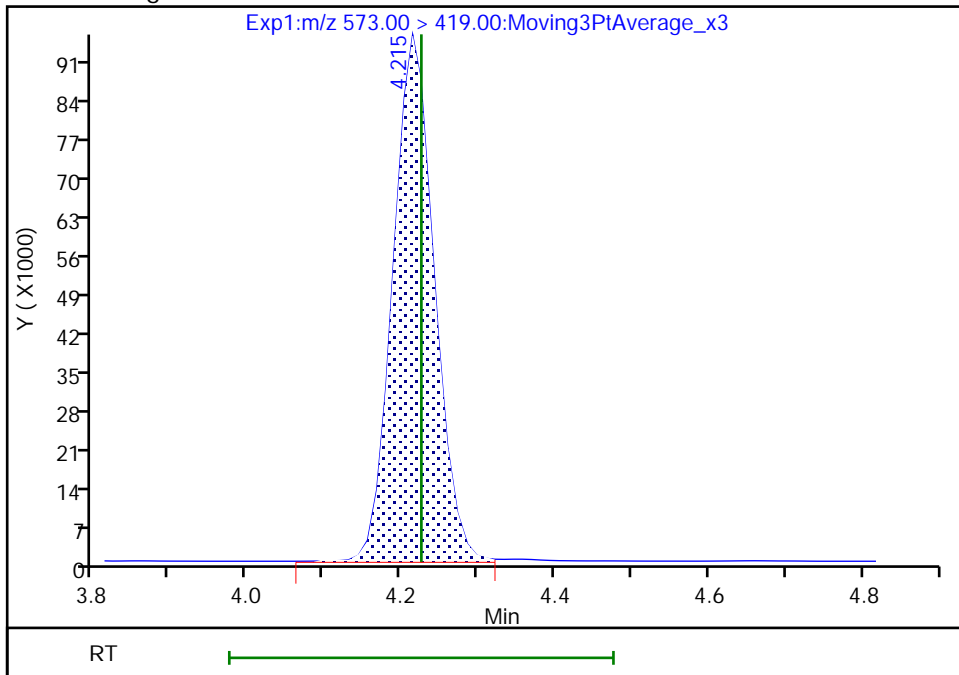
RT: 4.21
Area: 357406
Amount: 1.421997
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 355667
Amount: 1.415078
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:08:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 495 of 950

Eurofins Burlington

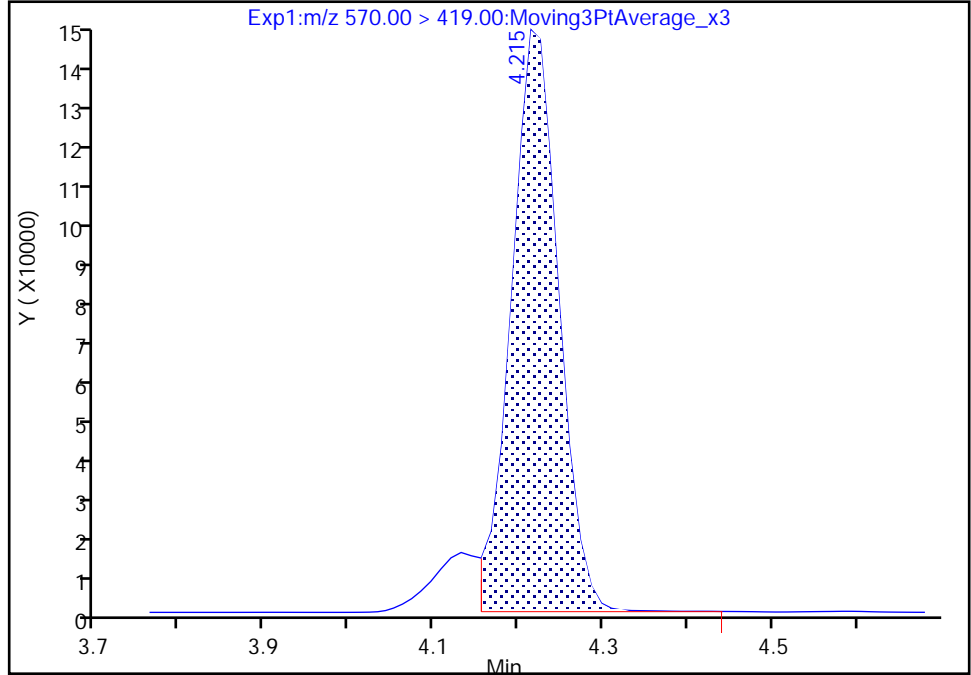
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

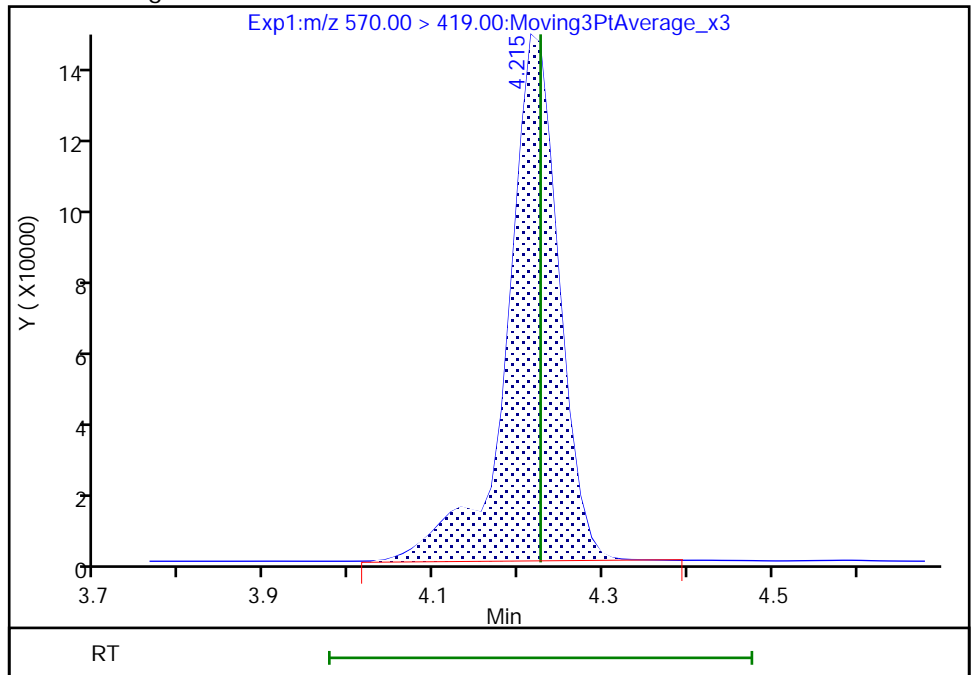
RT: 4.21
Area: 577792
Amount: 2.252198
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 634935
Amount: 2.474938
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:10:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

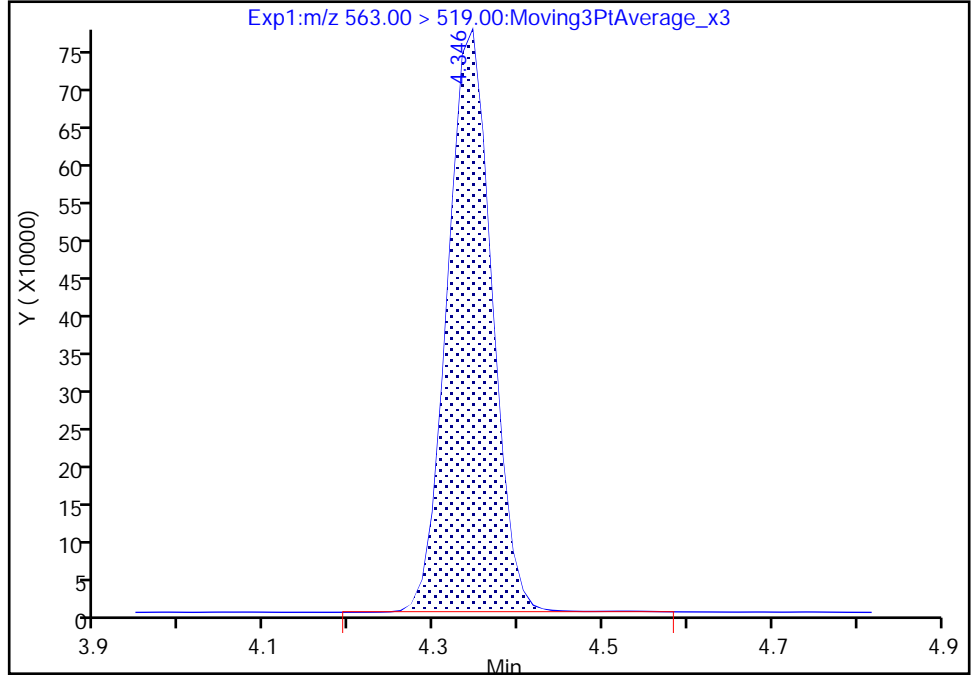
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

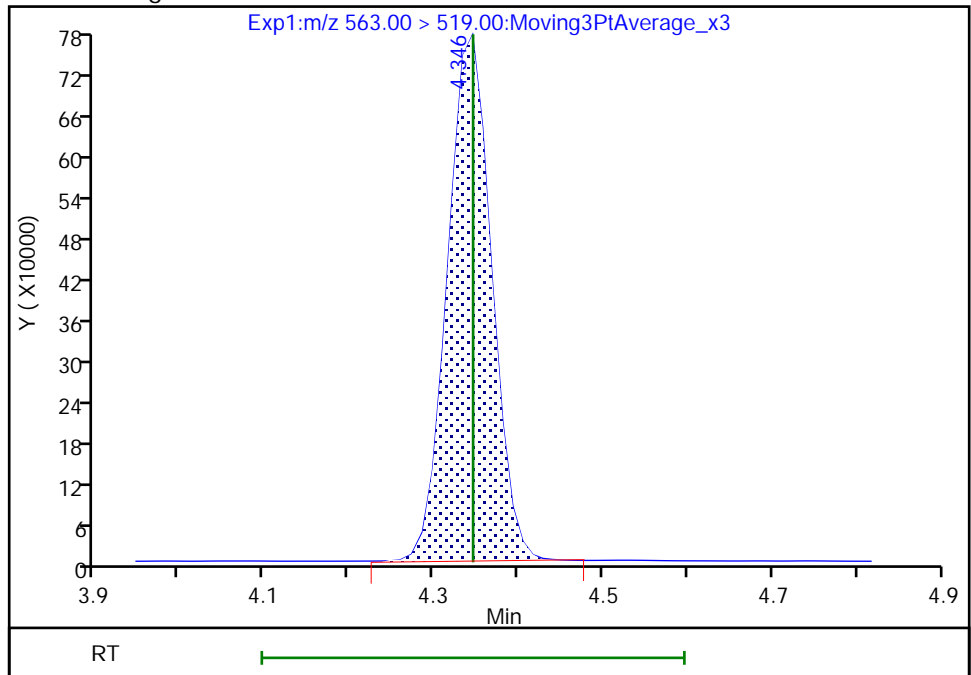
RT: 4.35
Area: 2814313
Amount: 2.144393
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2804916
Amount: 2.137232
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:10:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

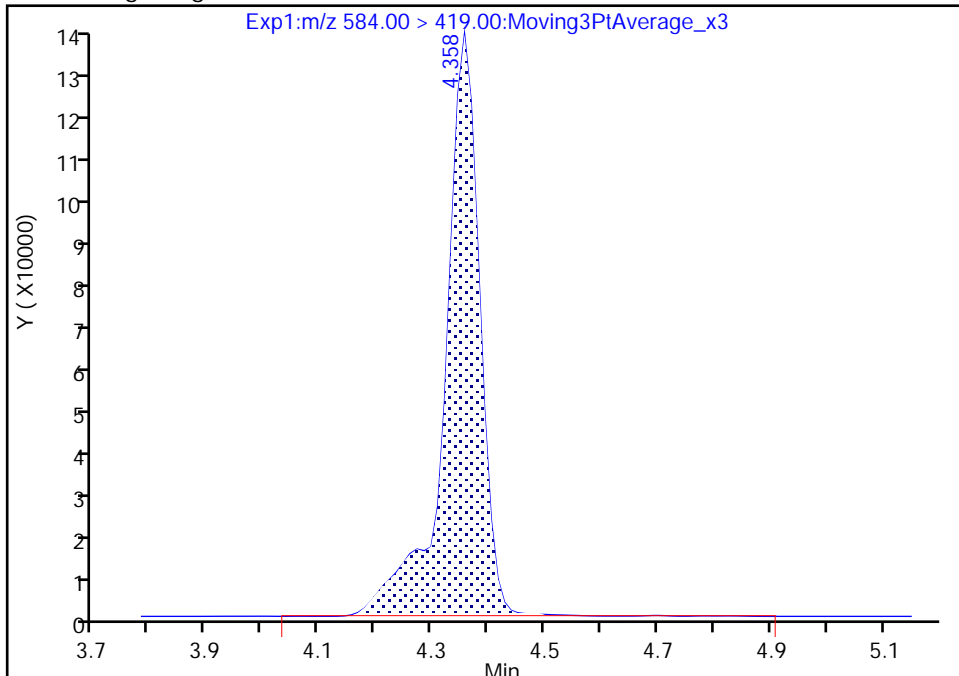
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

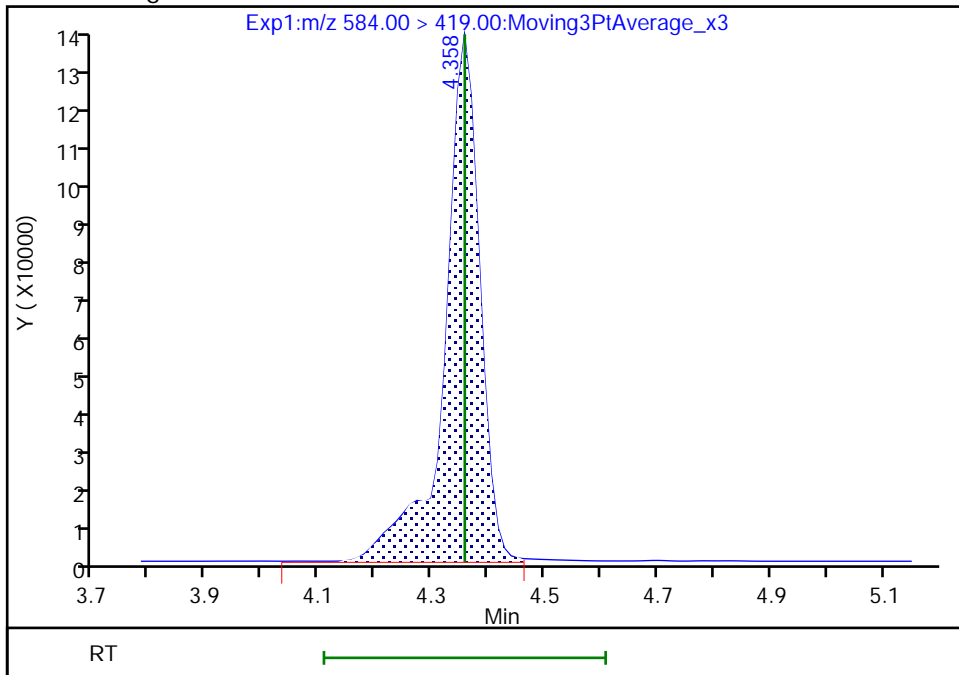
RT: 4.36
Area: 602892
Amount: 2.488672
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 598609
Amount: 2.470992
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:10:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

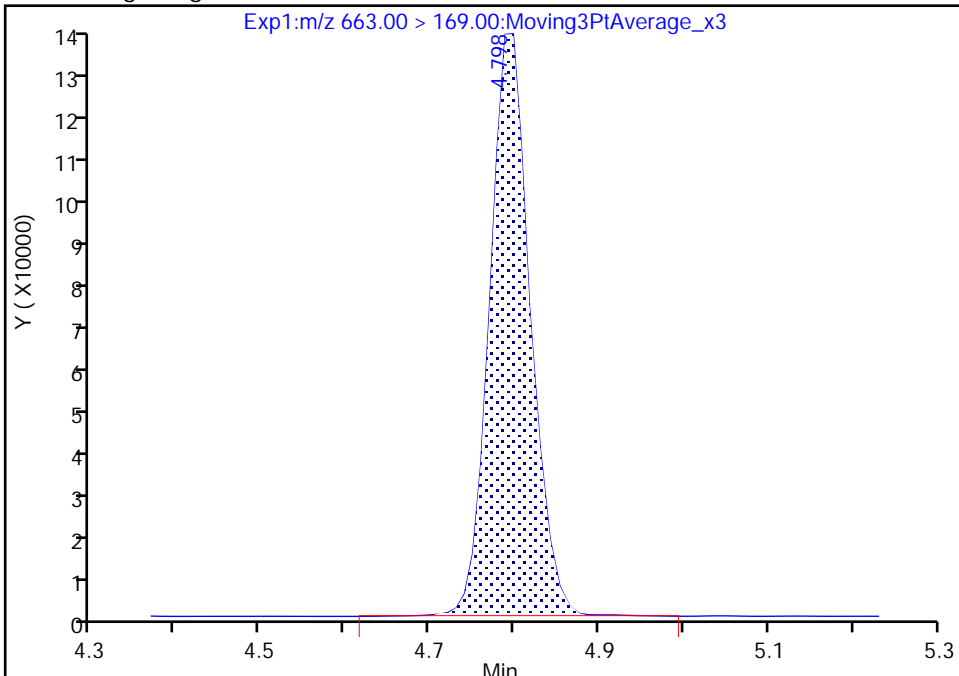
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

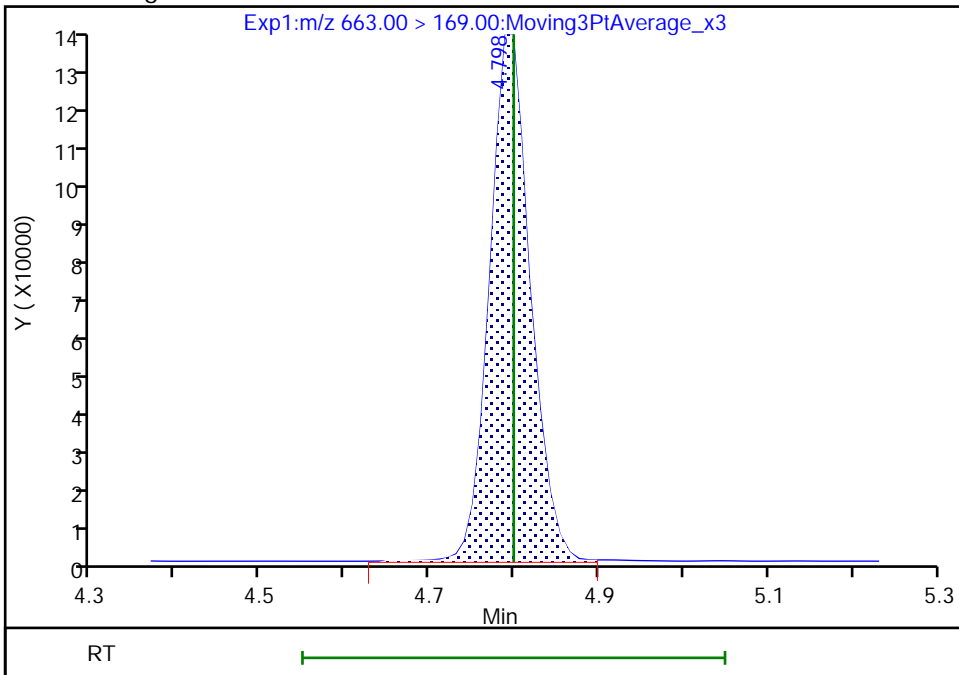
RT: 4.80
Area: 437090
Amount: 2.214259
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 435841
Amount: 2.208821
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:11:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

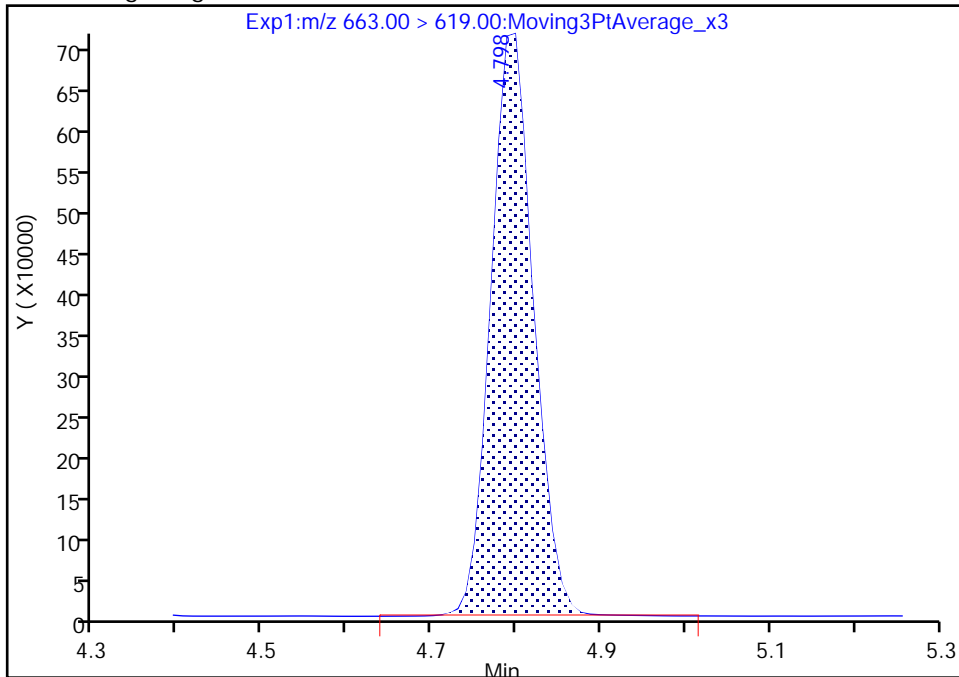
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

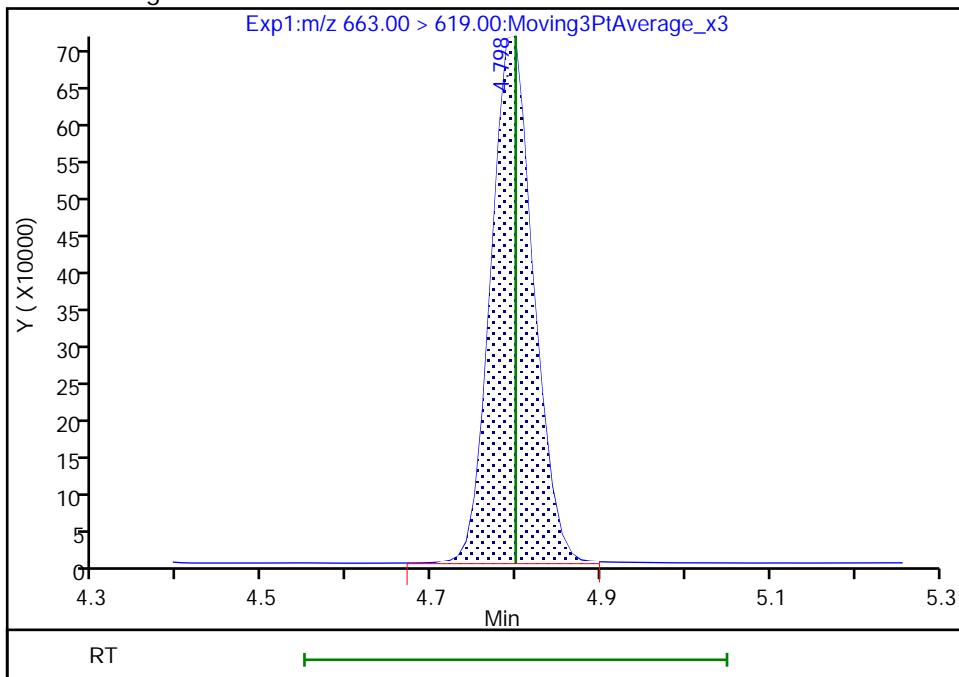
RT: 4.80
Area: 2511782
Amount: 2.214259
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 2505613
Amount: 2.208821
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:11:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

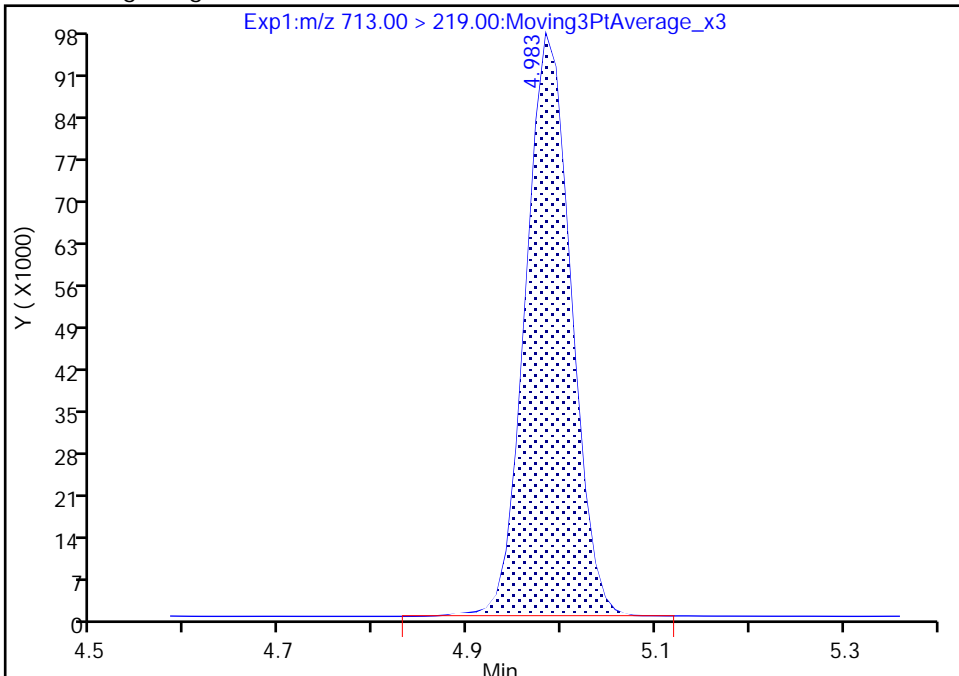
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

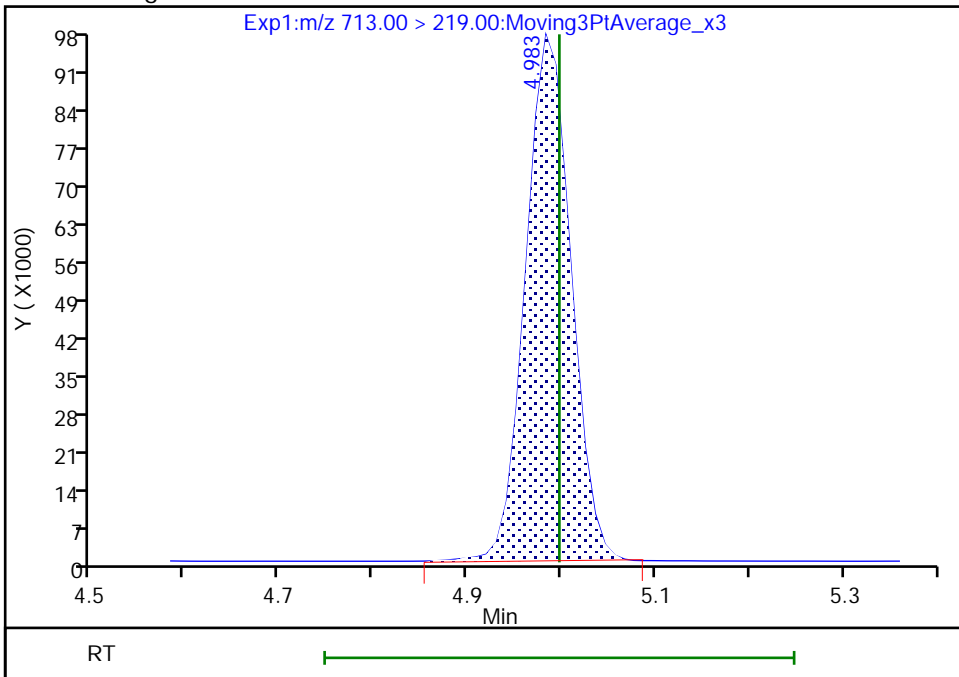
RT: 4.98
Area: 327252
Amount: 2.305057
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 326700
Amount: 2.305057
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:11:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

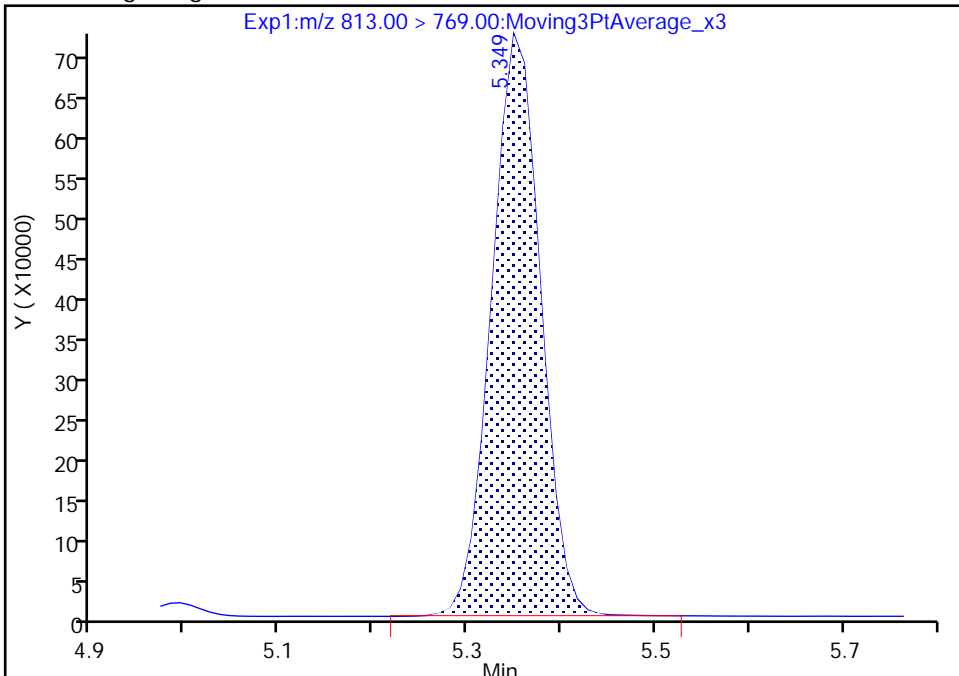
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

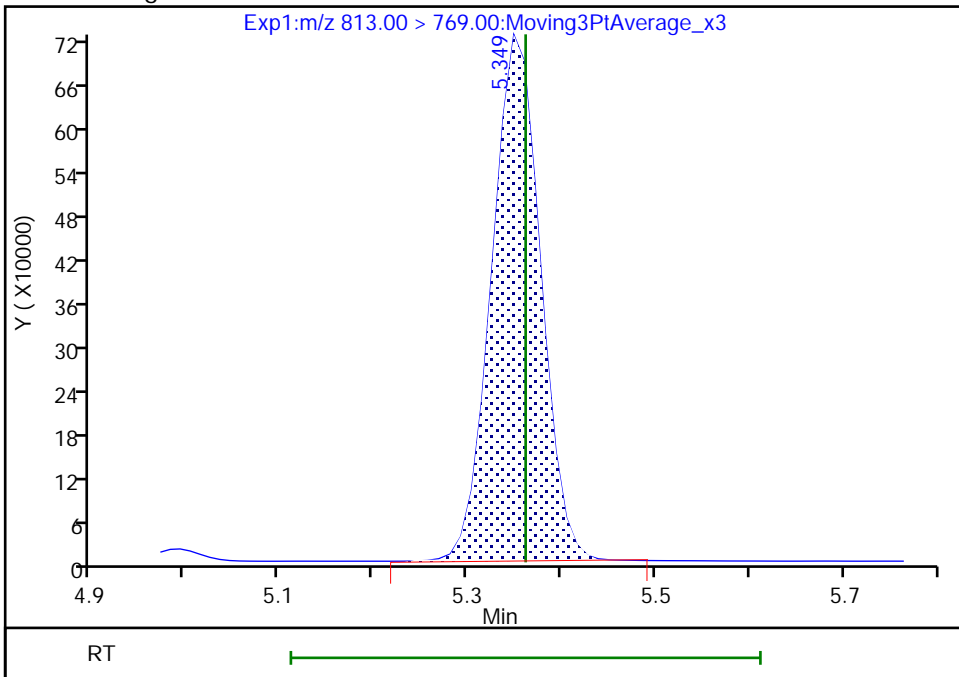
RT: 5.35
Area: 2639548
Amount: 2.353649
Amount Units: ng/ml

Processing Integration Results



RT: 5.35
Area: 2636329
Amount: 2.350759
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:11:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

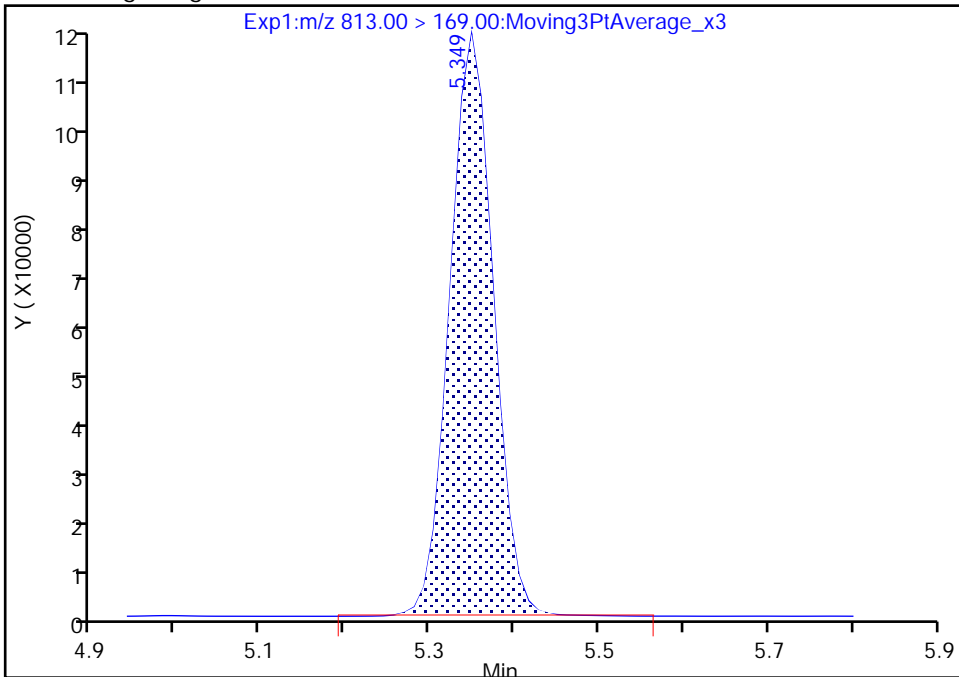
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

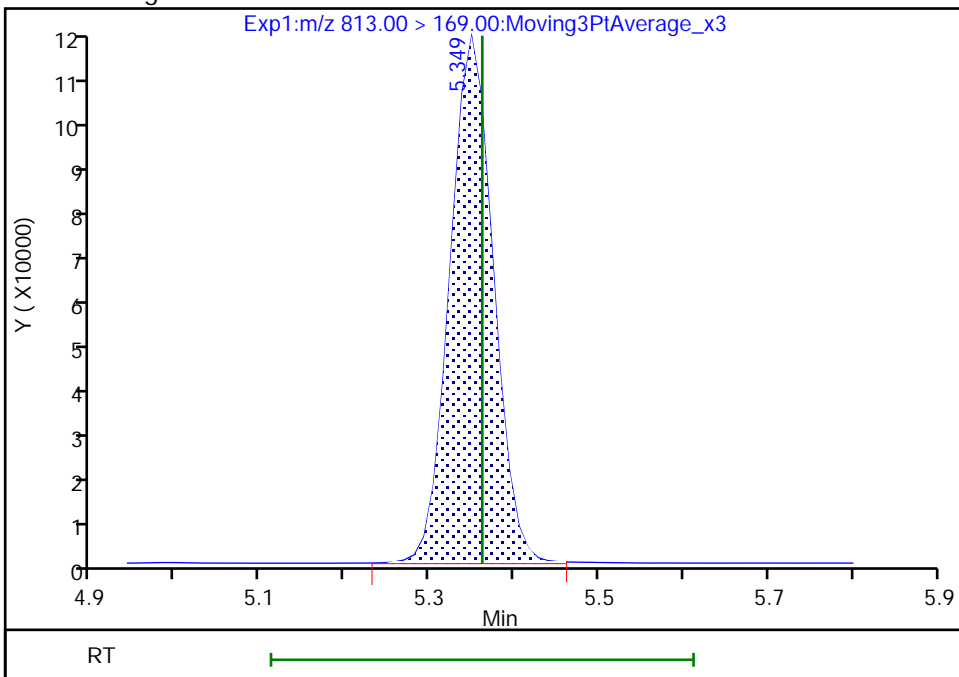
RT: 5.35
Area: 396872
Amount: 2.353649
Amount Units: ng/ml

Processing Integration Results



RT: 5.35
Area: 395968
Amount: 2.350759
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:11:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

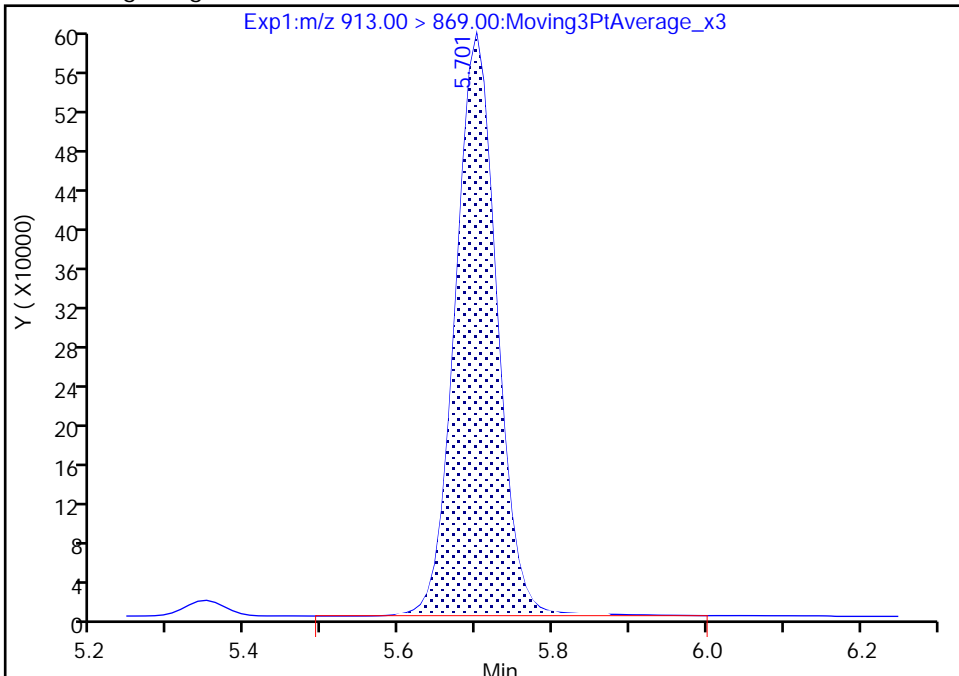
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

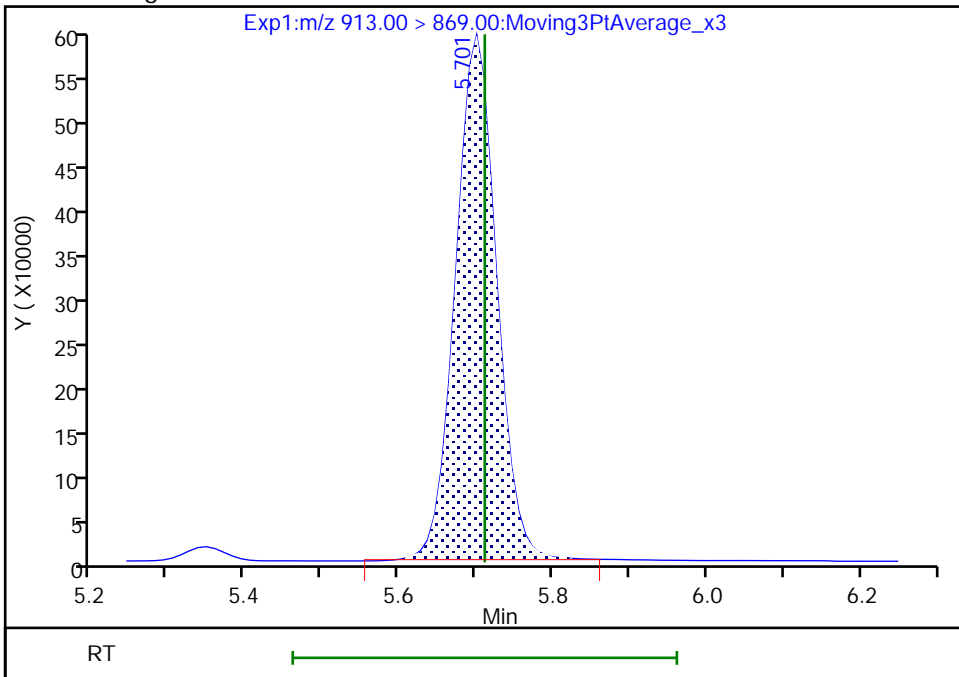
RT: 5.70
Area: 2229120
Amount: 2.256905
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 2208661
Amount: 2.236191
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:11:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

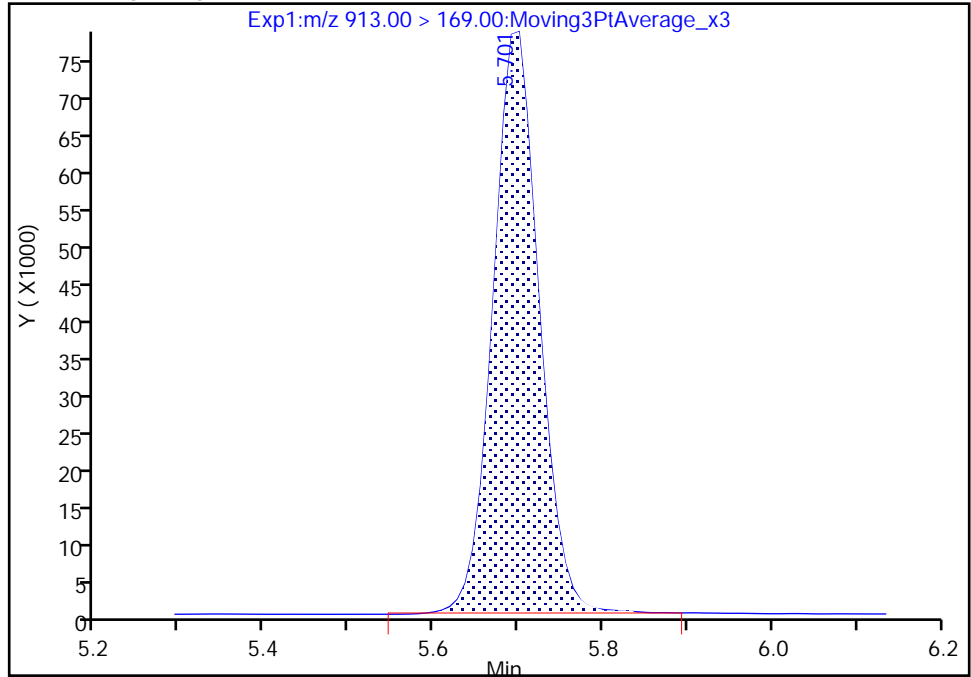
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B01.d
Injection Date: 23-Jan-2023 19:32:24 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

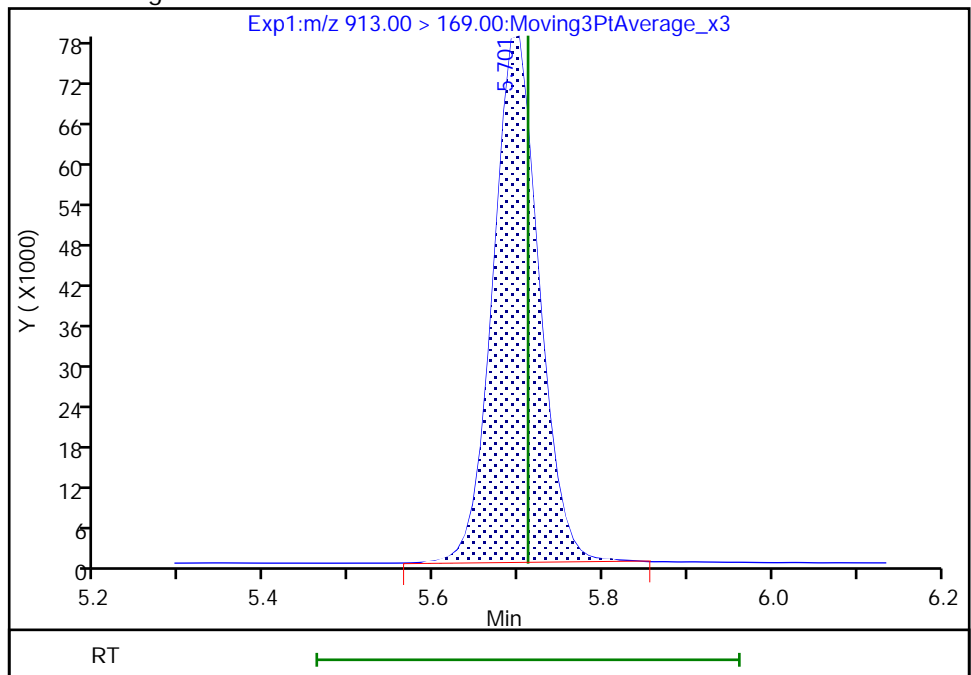
RT: 5.70
Area: 298154
Amount: 2.256905
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 297083
Amount: 2.236191
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:11:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187759/15 Calibration Date: 01/23/2023 21:26
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123B15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.9125		0.920	1.00	-8.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	0.8820		0.770	1.00	-23.0	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.039		0.858	0.884	-3.0	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	2.835		0.895	0.934	-4.2	
Perfluorohexanoic acid (PFHxA)	AveID	1.054	0.8727		0.828	1.00	-17.2	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.051		0.797	0.938	-15.0	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.9050		0.905	1.00	-9.5	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	0.9203		0.763	0.910	-16.2	
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	0.9485		0.891	1.00	-10.9	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	6.592		1.08	0.942	15.0	
6:2 FTS	AveID	2.290	2.010		0.832	0.948	-12.2	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.386		0.907	0.952	-4.8	
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.004		0.923	1.00	-7.7	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.226		0.937	0.928	0.9	
Perfluorononanoic acid (PFNA)	AveID	1.022	0.9014		0.882	1.00	-11.8	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.830		0.910	0.932	-2.4	
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.8943		0.851	0.960	-11.4	
Perfluorodecanoic acid (PFDA)	AveID	1.069	0.8497		0.795	1.00	-20.5	
8:2 FTS	AveID	1.814	1.813		0.957	0.958	-0.0	
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.8312		0.827	1.00	-17.3	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.8417		0.933	1.00	-6.7	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7192		0.922	0.964	-4.4	
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.024		0.938	1.00	-6.2	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.8368		0.901	1.00	-9.9	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	4.812		1.01	0.942	7.2	
Perfluorododecanoic acid (PFDoA)	AveID	1.018	0.9691		0.952	1.00	-4.8	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.071		0.900	0.964	-6.6	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.3090		0.979	0.968	1.1	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187759/15 Calibration Date: 01/23/2023 21:26
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123B15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	1.024		1.01	1.00	0.7	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1106		0.886	1.00	-11.4	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9022		0.973	1.00	-2.7	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.7351		0.909	1.00	-9.1	
13C4 PFBA	Ave	1.150	1.104		1.20	1.25	-4.0	
13C5 PFPeA	Ave	0.9294	0.9146		1.23	1.25	-1.6	
13C3 PFBS	Ave	1.020	0.8394		0.956	1.16	-17.7	
M2-4:2 FTS	Ave	0.0825	0.0858		1.22	1.17	4.1	
13C2 PFHxA	Ave	0.9657	1.018		1.32	1.25	5.4	
13C3 HFPO-DA	Ave	0.1673	0.1450		1.08	1.25	-13.3	
18O2 PFHxS	Ave	0.7424	0.6876		1.10	1.18	-7.4	50.0
13C4 PFHpA	Ave	0.9669	1.029		1.33	1.25	6.5	50.0
M2-6:2 FTS	Ave	0.1170	0.1196		1.21	1.19	2.2	
13C4 PFOA	Ave	1.024	1.031		1.26	1.25	0.6	50.0
13C4 PFOS	Ave	0.4514	0.3783		1.00	1.20	-16.2	50.0
13C5 PFNA	Ave	0.998	1.050		1.32	1.25	5.2	50.0
13C2 PFDA	Ave	1.024	1.070		1.31	1.25	4.6	
M2-8:2 FTS	Ave	0.1466	0.1358		1.11	1.20	-7.4	
13C8 FOSA	Ave	0.8320	0.8193		1.23	1.25	-1.5	
d3-NMeFOSAA	Ave	0.2013	0.2090		1.30	1.25	3.9	
13C2 PFUnA	Ave	0.8836	0.7923		1.12	1.25	-10.3	
d5-NEtFOSAA	Ave	0.1934	0.1979		1.28	1.25	2.4	
13C2 PFDoA	Ave	0.8860	0.7971		1.13	1.25	-10.0	
13C2 PFTeDA	Ave	0.7620	0.8307		1.36	1.25	9.0	
13C2 PFHxDA	Ave	0.9339	0.8902		1.19	1.25	-4.7	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jan-2023 21:26:46 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0054084-015 Plate: 1 Rack: 2
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Jan-2023 18:25:00 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1668

First Level Reviewer: khanphomeea Date: 24-Jan-2023 11:30:12

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	2.077	2.094	-0.018	0.603	1919872	1.20	96.0	16333	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.018	1.000	1401582	0.9198		92.0	147	M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1590159	1.23	98.4	9912	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	1121973	0.7701	77.0	44.8	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1357152	0.9563	82.3	143547	M
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.397	2.384	0.013	1.000	1072654	0.8576	Target=2.10	97.0	2231
298.90 > 99.00	2.397	2.384	0.013	1.000	531555		2.02(1.05-3.15)		721	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.000	316178	0.8949	95.8	5913	
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	139389	1.21	104	288	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1769253	1.32	105	10362	
6 Perfluorohexanoic acid	313.00 > 269.00	2.730	2.706	0.024	1.000	1235273	0.8284	Target=13.16	82.8	283
313.00 > 119.00	2.730	2.706	0.024	1.000	85411		14.46(6.58-19.74)		247	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.886	942965	0.7971	Target=2.90	85.0	1886
349.00 > 99.00	2.730	2.706	0.024	0.886	345041		2.73(1.45-4.35)		1417	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	182514	0.9054	90.5	2392	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	2.830	2.806	0.024	0.822	252090	1.08		86.7	5469	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.895	1130931	1.10		92.6	4116	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.000	800947	0.7630	Target=3.18	83.8	2200	M
399.00 > 99.00	3.080	3.069	0.011	1.000	261882		3.06(1.59-4.77)		678	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1789409	1.33		106	10265	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	1357843	0.8907	Target=4.10	89.1	362	M
363.00 > 169.00	3.091	3.069	0.022	1.000	362702		3.74(2.05-6.16)		1005	M
77 DONA										
377.00 > 251.00	3.125	3.104	0.021	0.831	3267436	1.08	Target=2.96	115	2636	M
377.00 > 85.00	3.125	3.104	0.021	0.831	1006756		3.25(1.48-4.44)		2570	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	197580	1.21		102	990	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	317009	0.8320		87.8	676	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.913	694209	0.9067	Target=4.59	95.2	3229	
449.00 > 99.00	3.434	3.417	0.017	0.913	153909		4.51(2.30-6.89)		1410	
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1792361	1.26		101	8487	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1738560	1.25			10640	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	1439636	0.9226	Target=2.71	92.3	127	M
413.00 > 169.00	3.443	3.426	0.017	1.000	528483		2.72(1.36-4.07)		1150	M
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	628779	1.00		83.8	3280	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.000	598635	0.9365	Target=4.23	101	923	M
499.00 > 99.00	3.753	3.754	-0.001	0.997	132115		4.53(2.11-6.34)		889	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	1316490	0.8824	Target=8.78	88.2	291	
463.00 > 169.00	3.773	3.774	-0.001	1.000	162456		8.10(4.39-13.17)		2657	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1825580	1.32		105	8011	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.042	1387822	0.9095		97.6	3789	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	451761	0.8510	Target=2.37	88.6	2643	
549.00 > 99.00	4.052	4.043	0.009	1.077	200206		2.26(1.18-3.55)		1081	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1860897	1.31		105	8164	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	1265023	0.7947	Target=11.13	79.5	412	
513.00 > 169.00	4.073	4.074	-0.001	1.000	133857		9.45(5.56-16.69)		907	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	226138	1.11		92.6	1371	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	327930	0.9573		99.9	2628	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	947212	0.8265		82.7	1551	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1424387	1.23		98.5	3630	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	363439	1.30		104	1128	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	244712	0.9335		93.3	631	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.322	-0.001	1.148	364793	0.9218	Target=2.45	95.6	1596	
599.00 > 99.00	4.321	4.322	-0.001	1.148	150316		2.43(1.23-3.68)		2107	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1377540	1.12		89.7	4436	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.345	4.346	-0.001	1.000	1128124	0.9377	Target=10.33	93.8	382	M
563.00 > 169.00	4.345	4.346	-0.001	1.000	91762		12.29(5.17-15.50)		1492	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.357	4.358	-0.001	1.000	230359	0.9007		90.1	973	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	344103	1.28		102	747	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.180	2385032	1.01		107	4897	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	1074404	0.9519	Target=8.10	95.2	145	M
613.00 > 169.00	4.583	4.584	-0.001	1.000	128441		8.36(4.05-12.15)		832	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1385845	1.12		90.0	4480	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	195036	0.9004		93.4	2147	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.759	4.770	-0.011	1.265	157396	0.9791	Target=0.51	101	3315	
699.00 > 99.00	4.759	4.770	-0.011	1.265	286788		0.55(0.26-0.77)		2960	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.798	4.799	-0.001	1.047	1135279	1.01	Target=6.06	101	162	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	193477		5.87(3.03-9.09)		1798	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.994	4.998	-0.004	1.000	127773	0.8857	Target=0.83	88.6	2204	
713.00 > 219.00	4.994	4.998	-0.004	1.000	144098		0.89(0.42-1.25)		2377	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.451	1444245	1.36		109	4576	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.360	5.362	-0.002	1.000	1117135	0.9732	Target=6.74	97.3	187	M
813.00 > 169.00	5.360	5.362	-0.002	1.000	161556		6.91(3.37-10.11)		2375	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1547741	1.19		95.3	6587	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.710	5.711	-0.001	1.065	910213	0.9089	Target=6.99	90.9	174	M
913.00 > 169.00	5.701	5.711	-0.010	1.063	121816		7.47(3.50-10.49)		808	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\20230123-54084.b\PA230123B15.d

Injection Date: 23-Jan-2023 21:26:46

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: LC812user

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

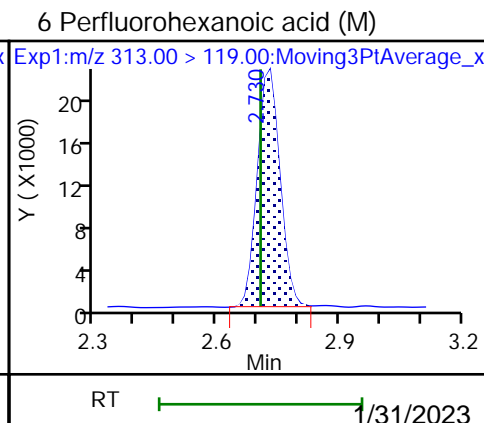
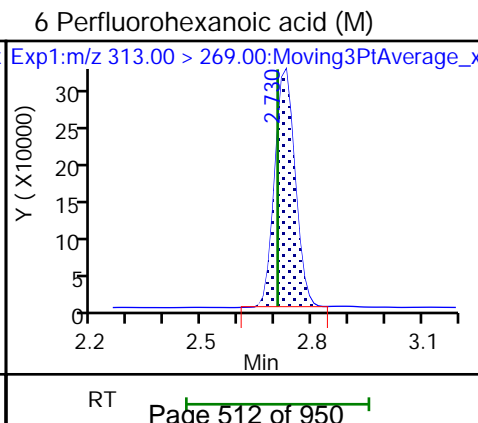
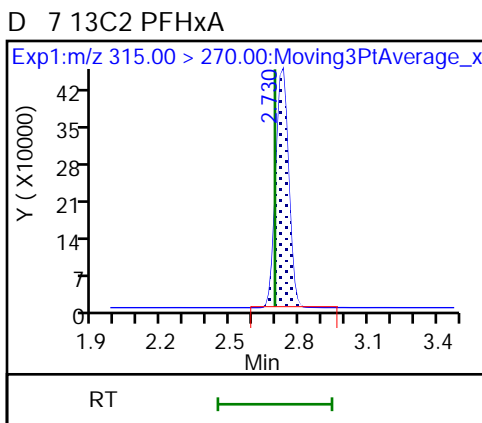
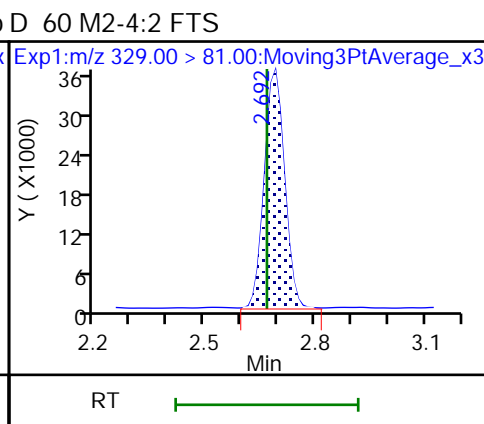
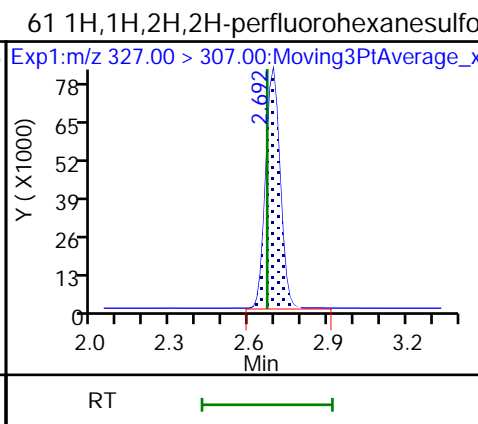
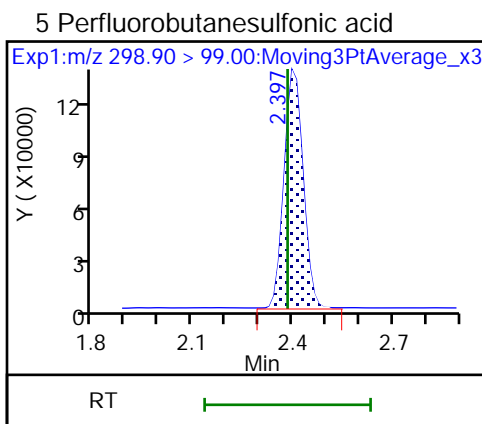
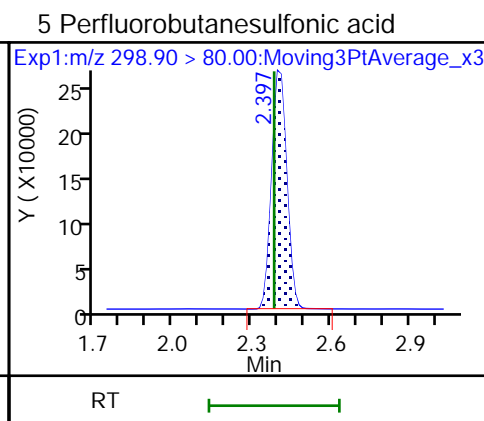
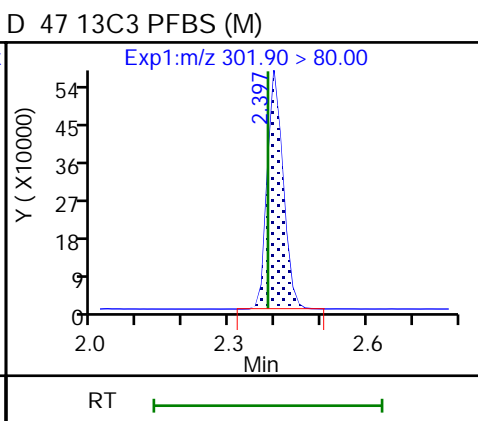
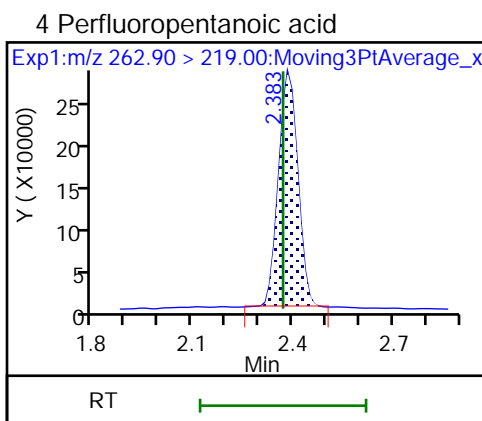
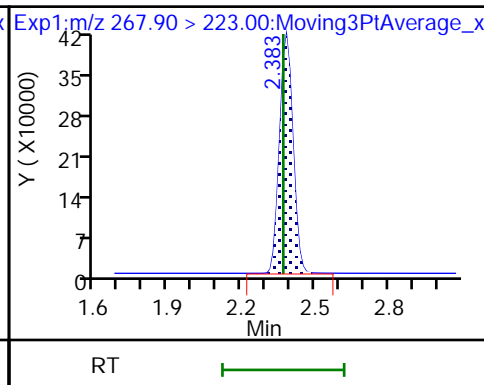
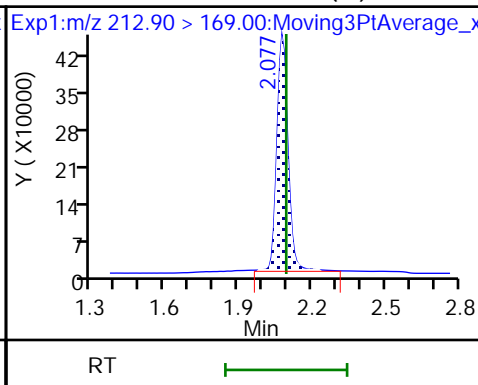
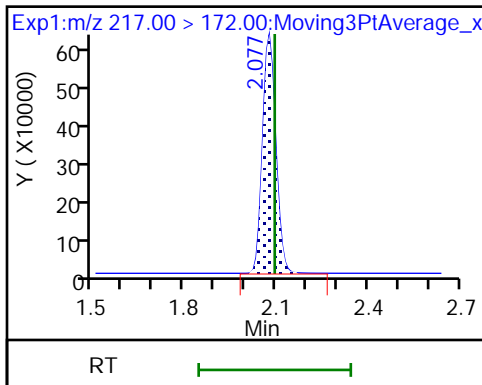
Method: PFC_LC812

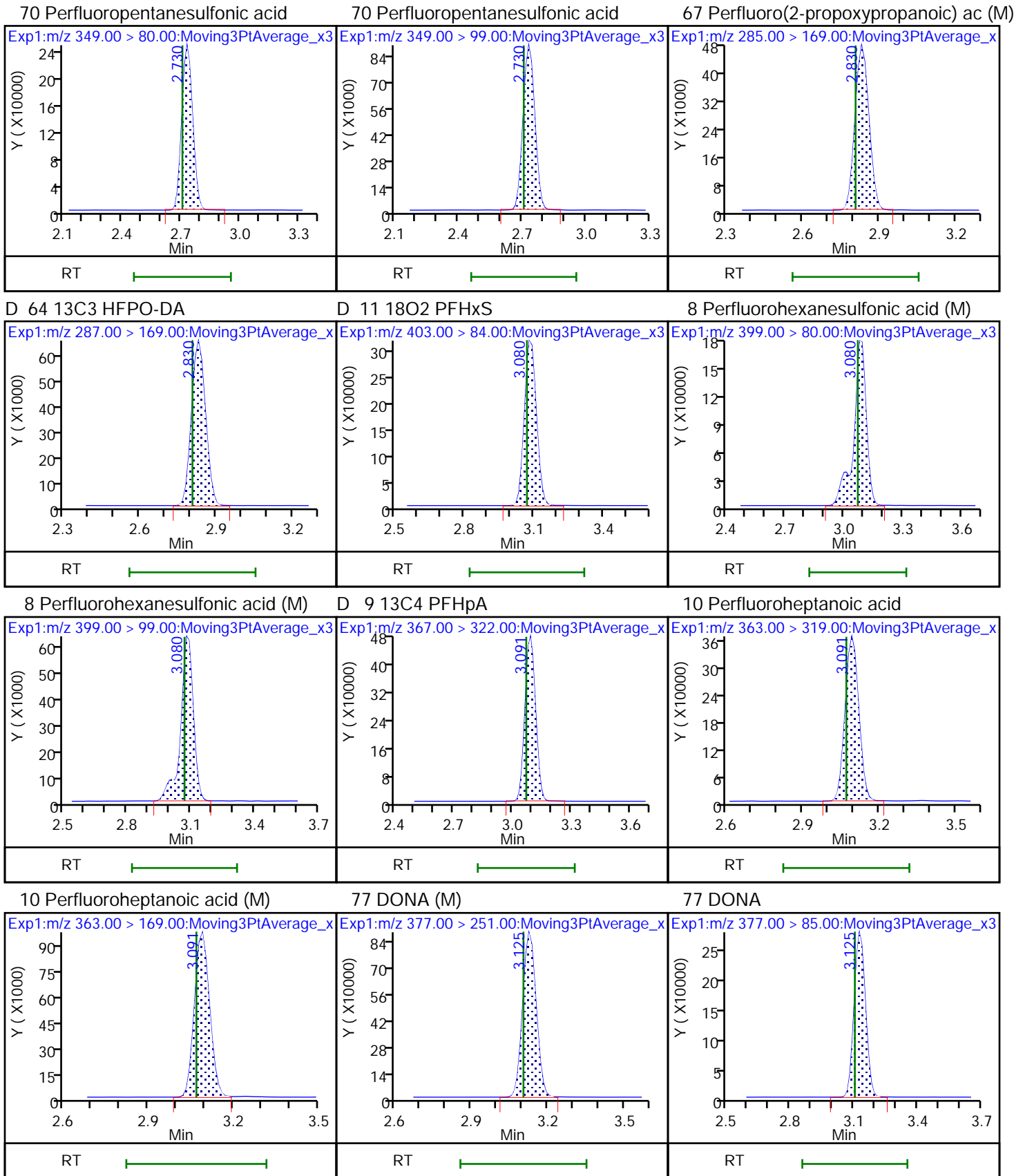
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

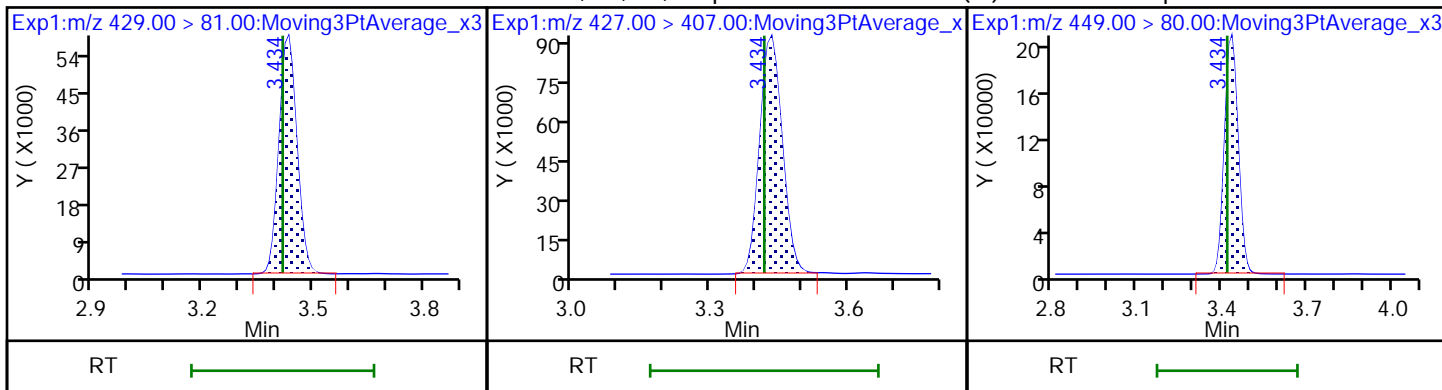
D 3 13C5 PFPeA





D 12 M2-6:2 FTS

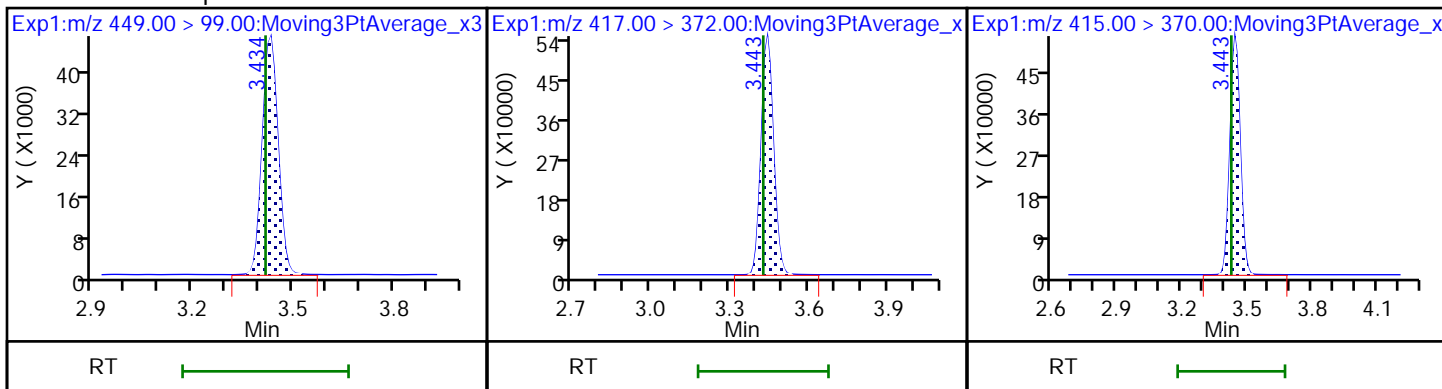
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

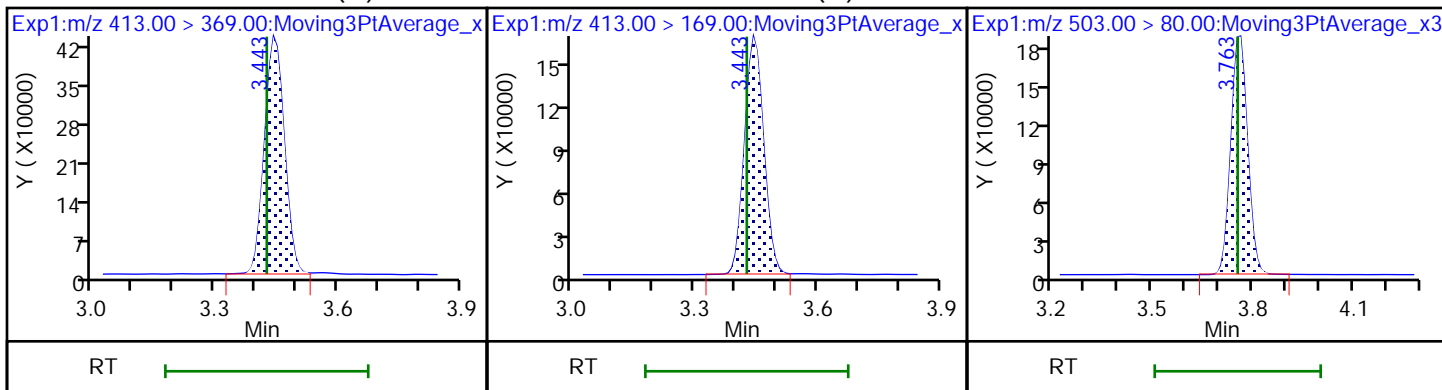
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

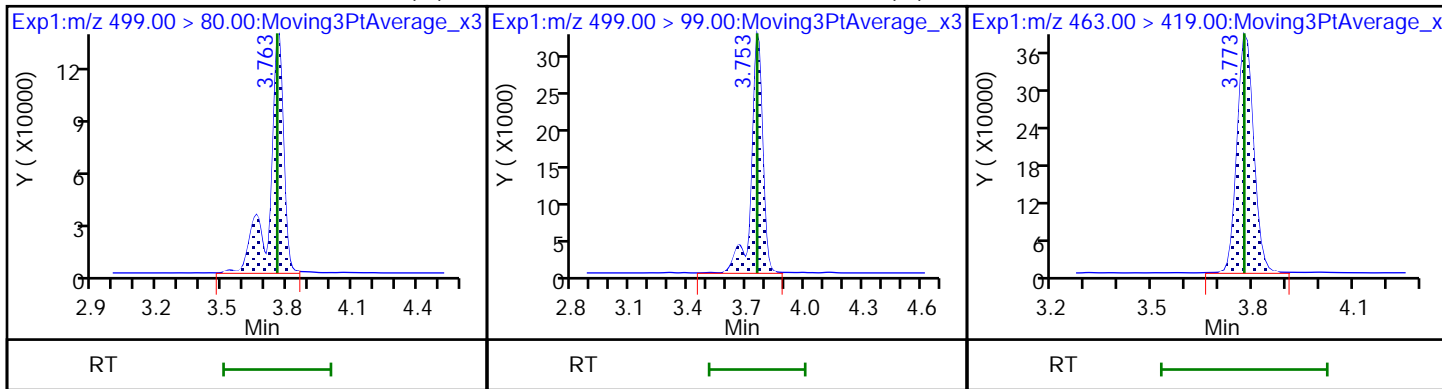
D 18 13C4 PFOS

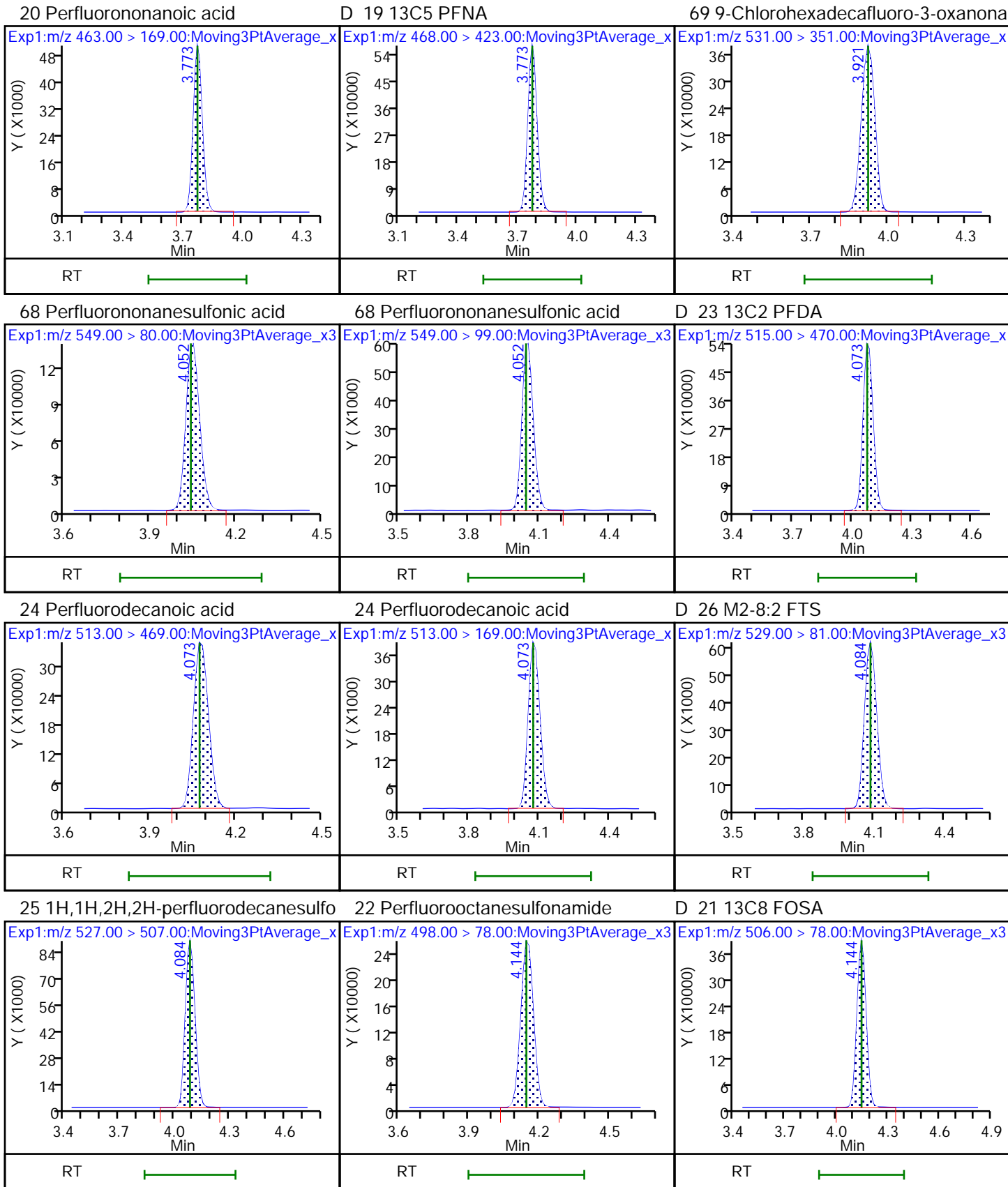


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

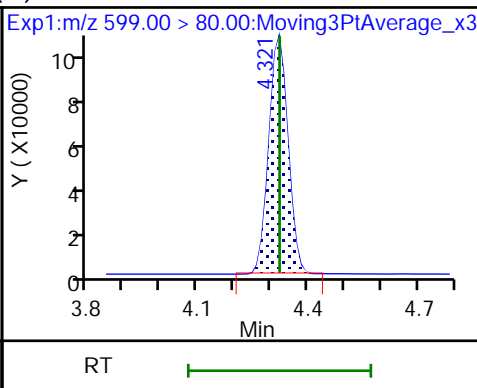
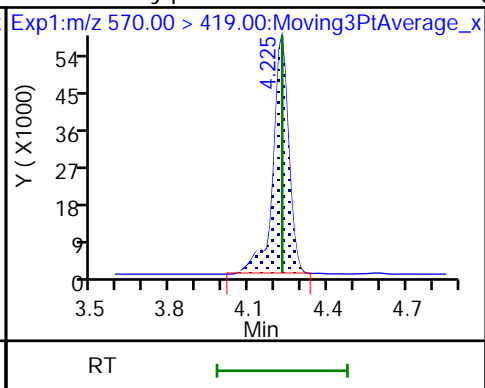
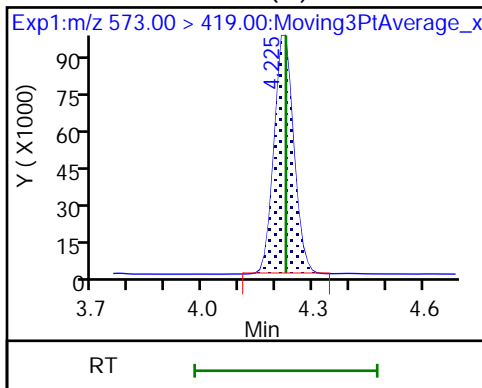




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

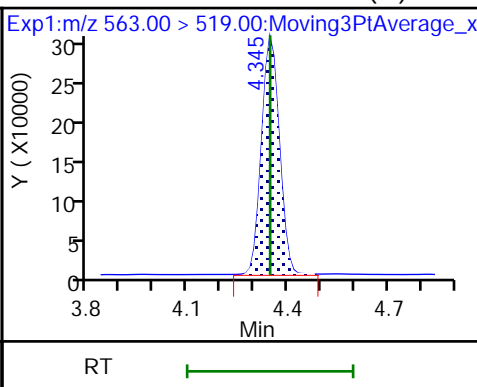
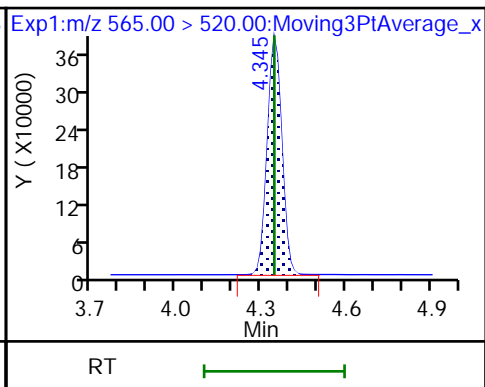
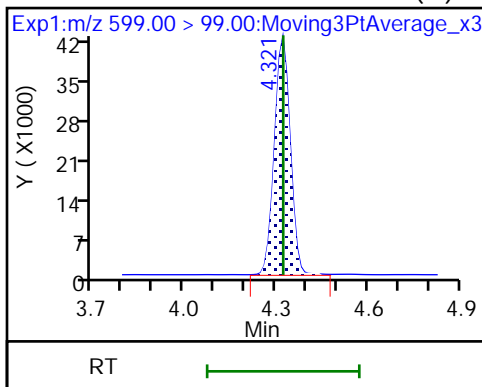
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

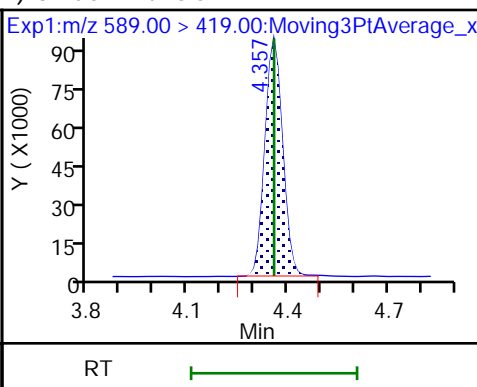
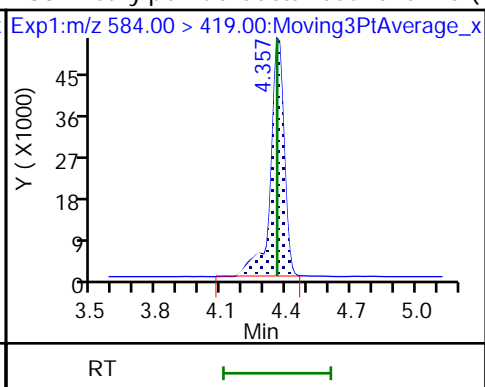
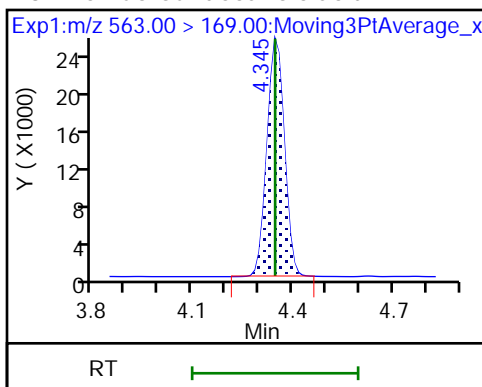
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

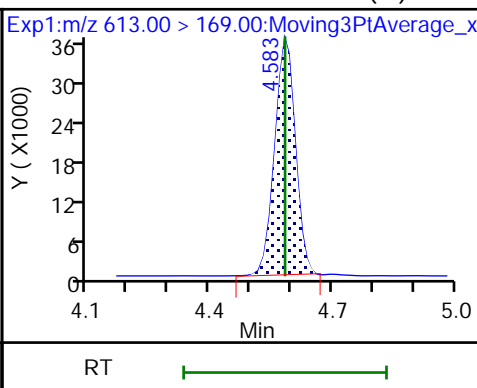
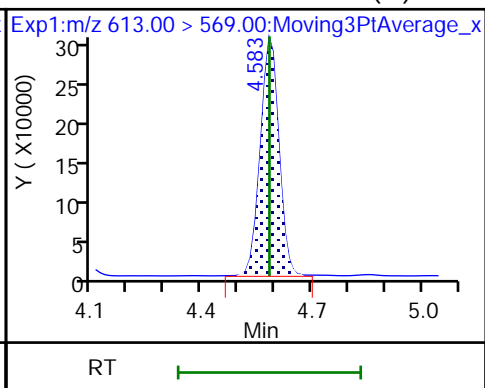
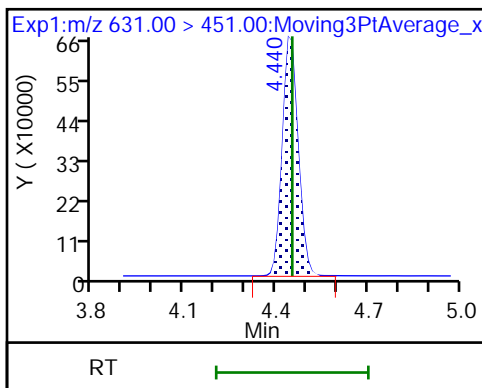
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

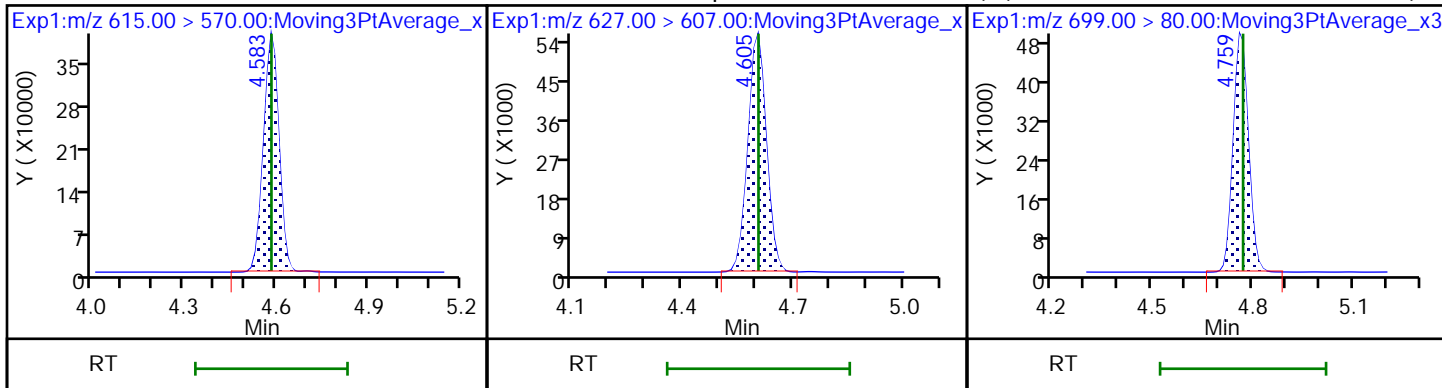
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

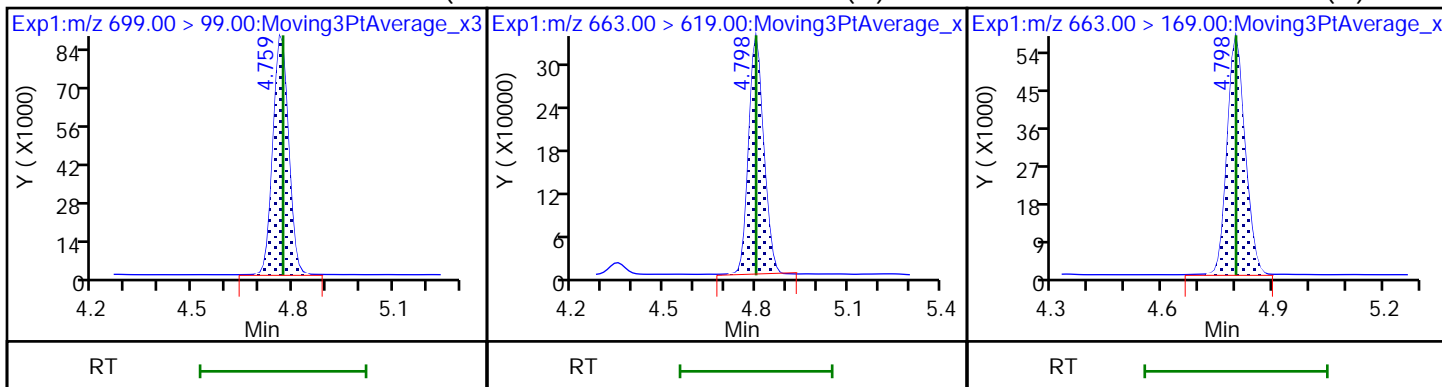
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

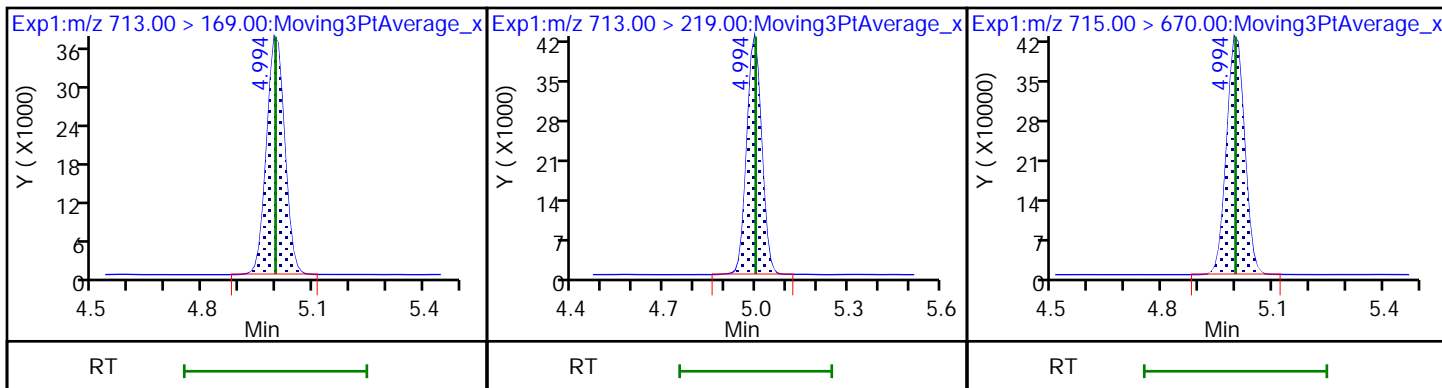
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

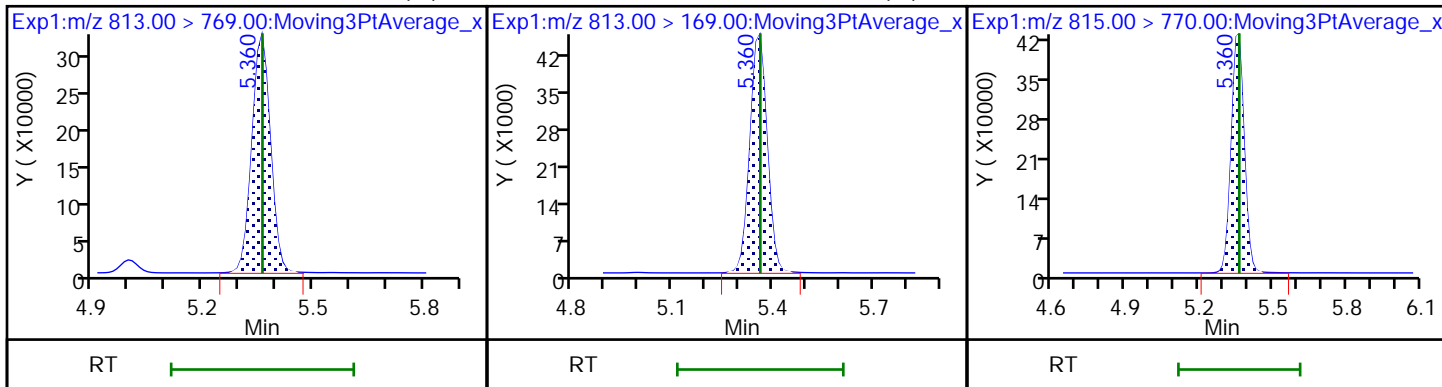
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

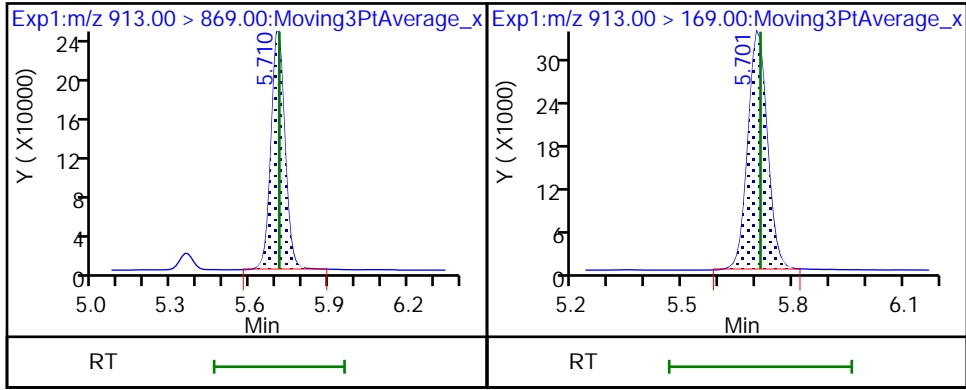
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

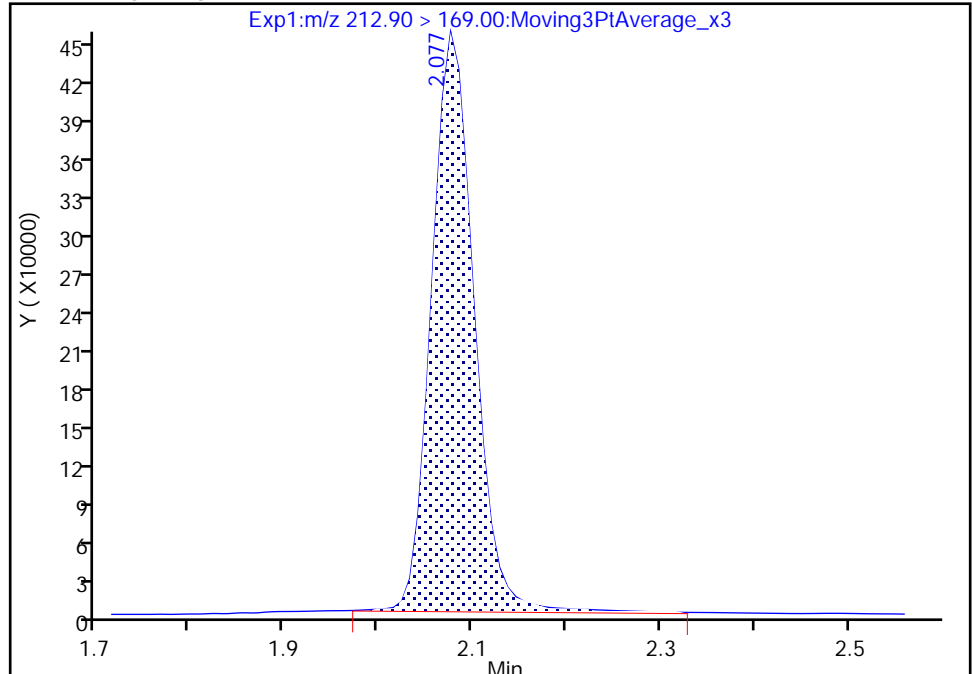
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

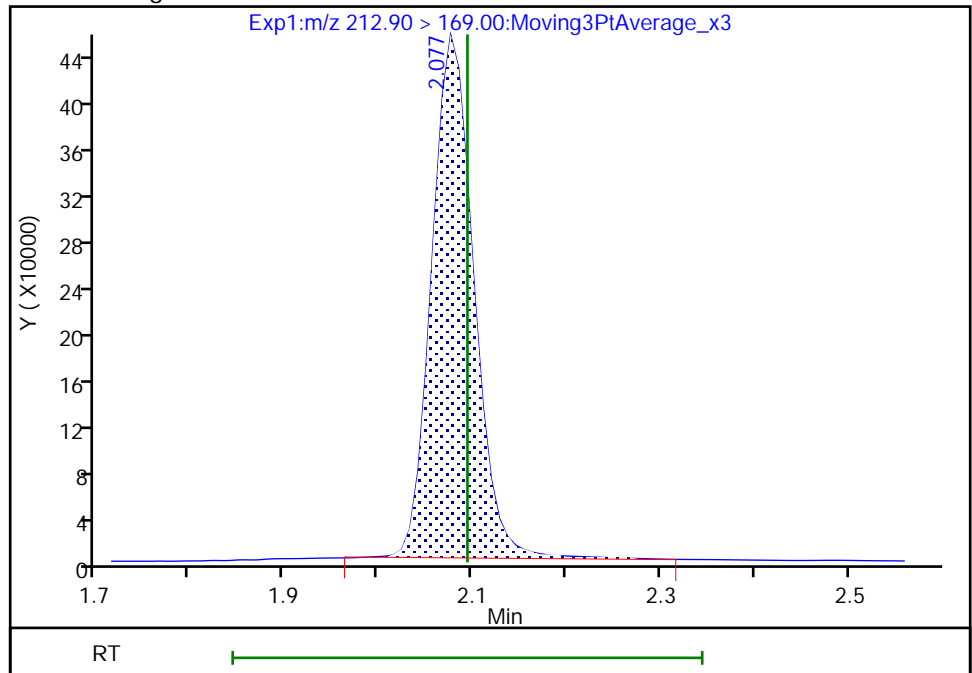
RT: 2.08
Area: 1400730
Amount: 0.919225
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1401582
Amount: 0.919811
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 24-Jan-2023 17:47:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

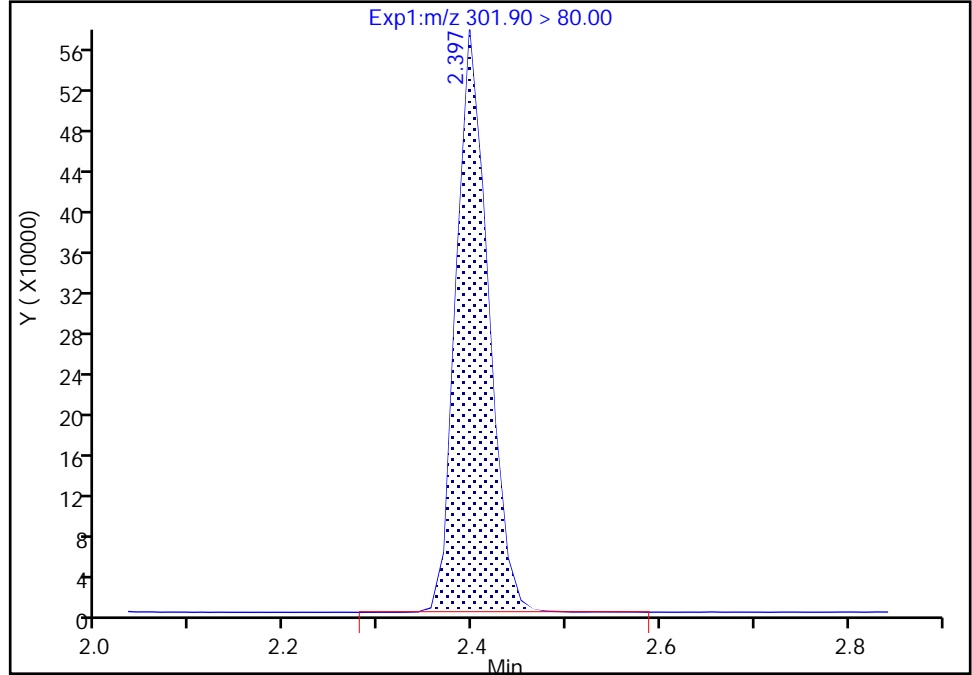
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337
Signal: 1

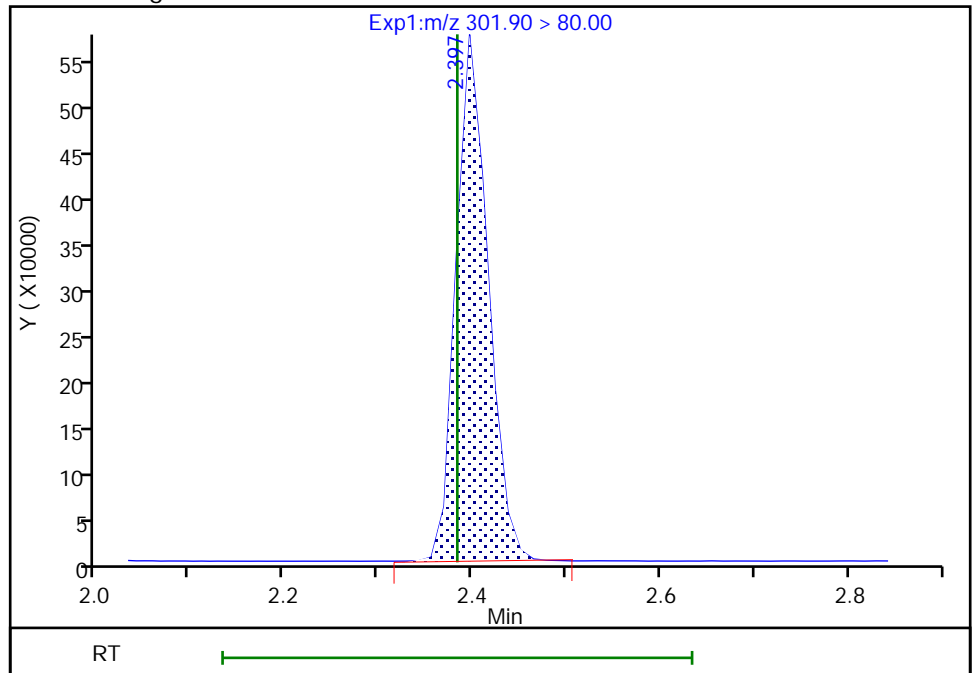
RT: 2.40
Area: 1360588
Amount: 0.958759
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1357152
Amount: 0.956338
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:26:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

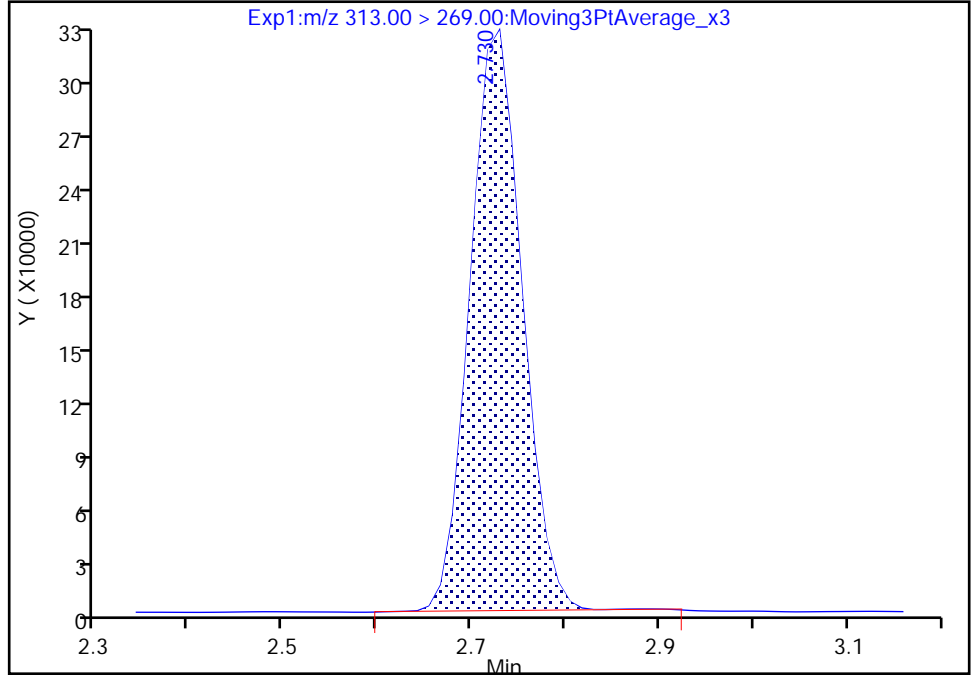
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

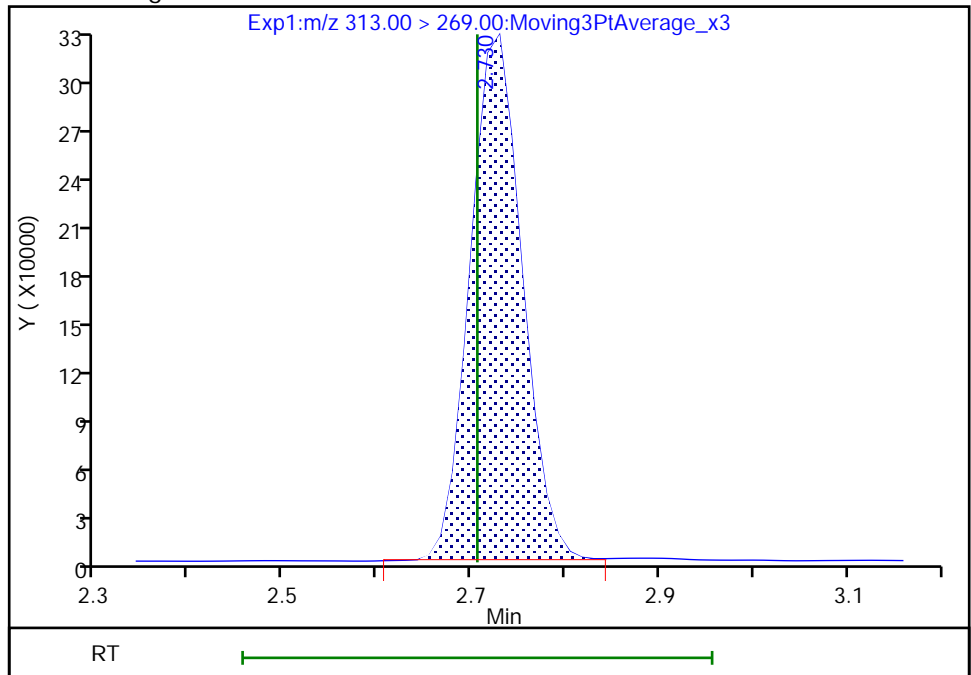
RT: 2.73
Area: 1242613
Amount: 0.833309
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1235273
Amount: 0.828387
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

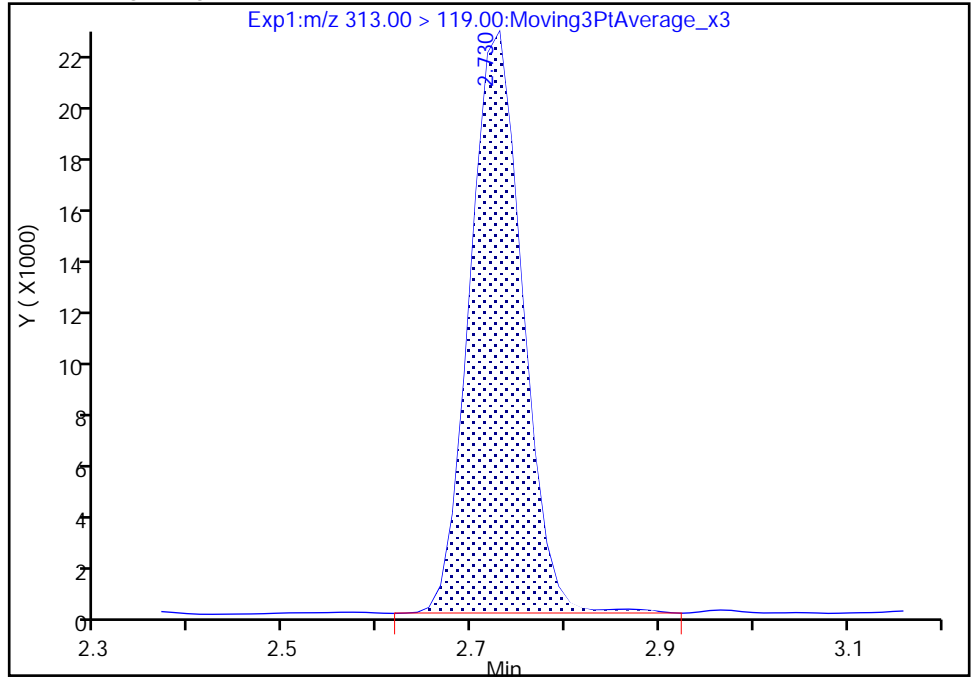
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

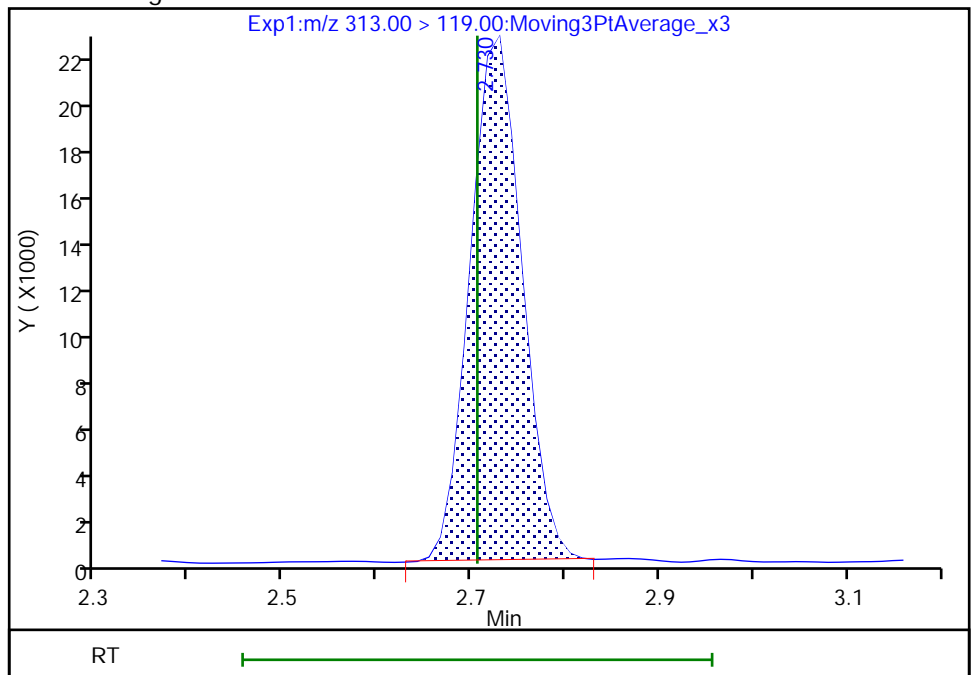
RT: 2.73
Area: 86813
Amount: 0.833309
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 85411
Amount: 0.828387
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

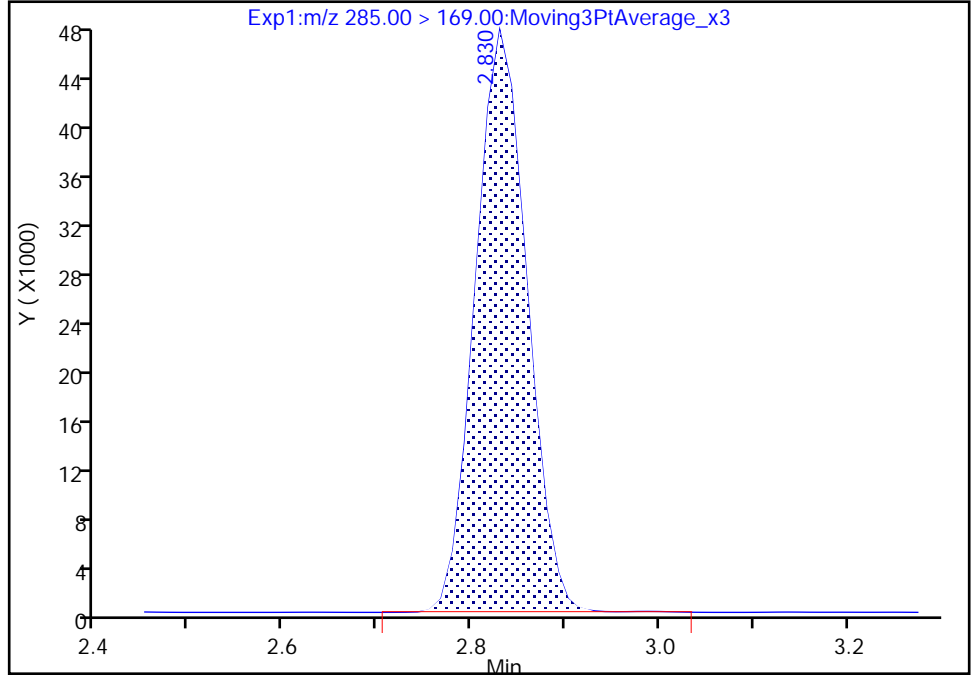
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

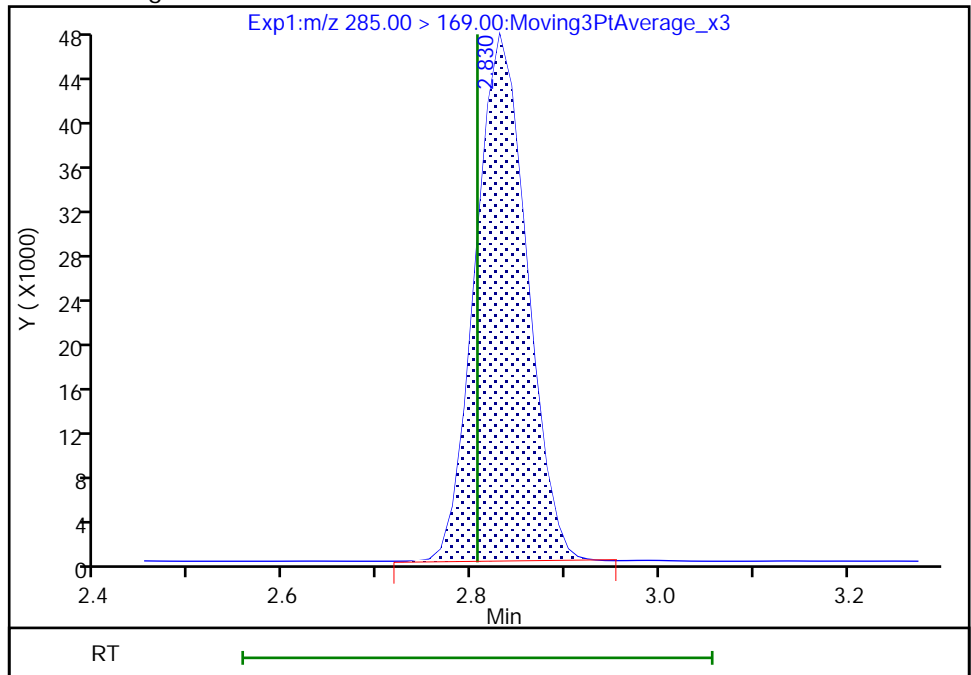
RT: 2.83
Area: 183079
Amount: 0.908225
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 182514
Amount: 0.905422
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

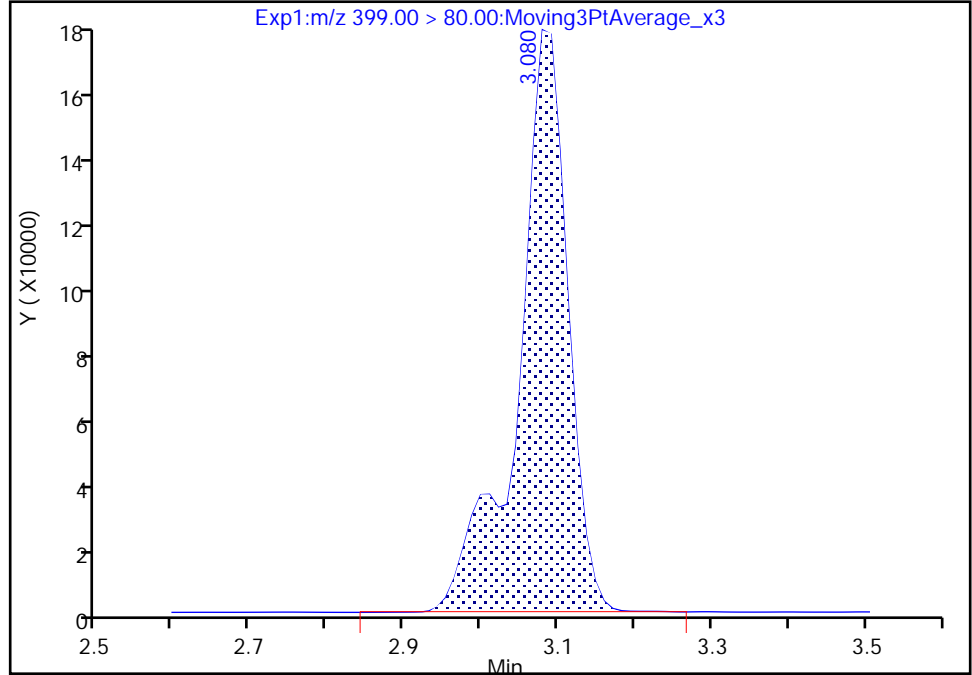
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

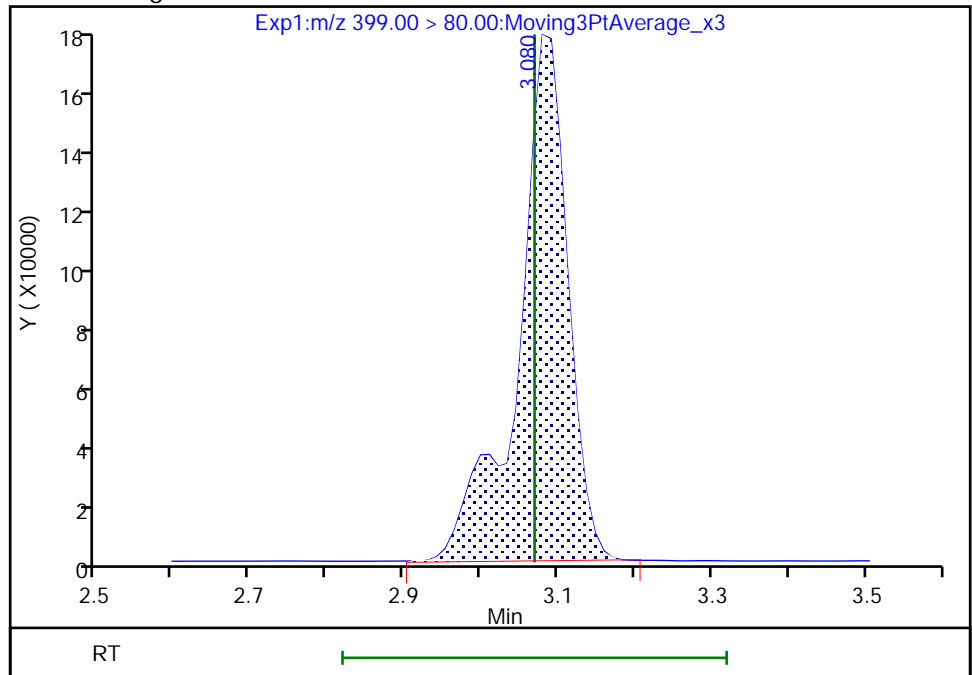
RT: 3.08
Area: 803906
Amount: 0.765771
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 800947
Amount: 0.762953
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

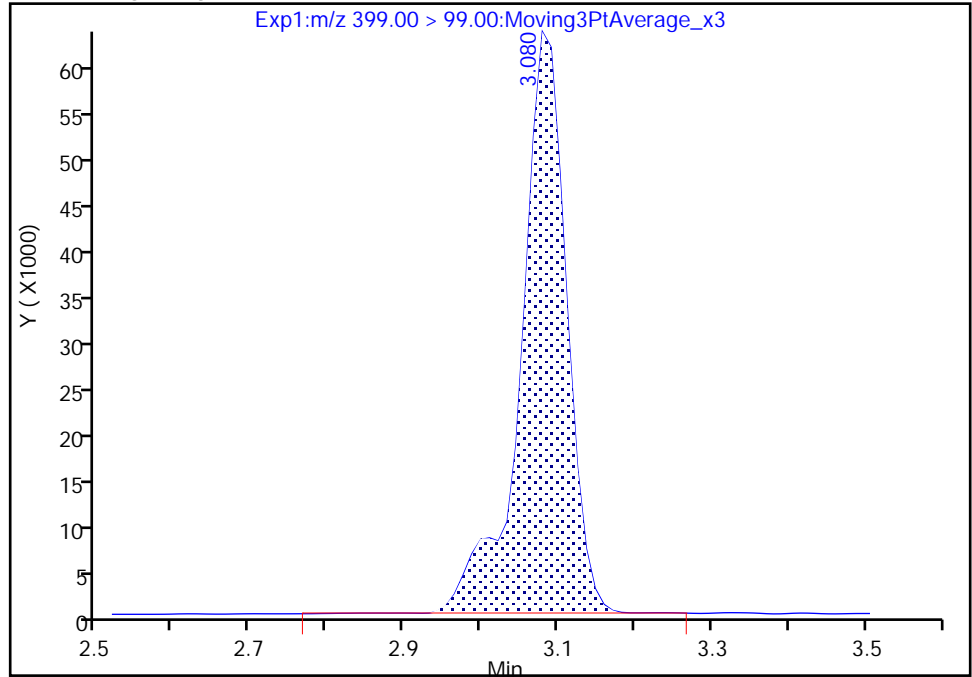
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

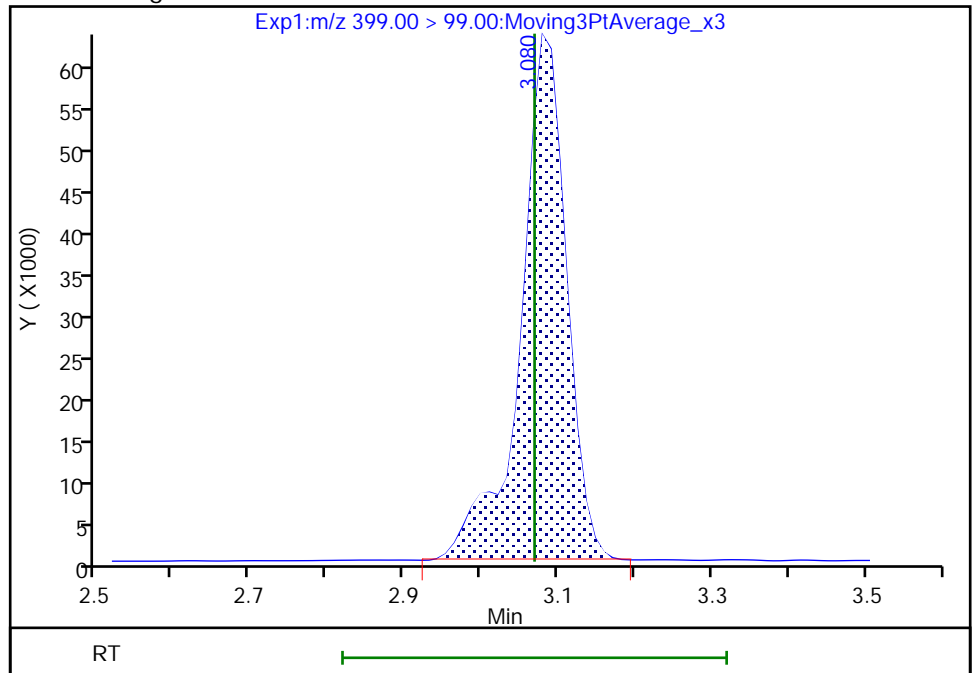
RT: 3.08
Area: 262976
Amount: 0.765771
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 261882
Amount: 0.762953
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

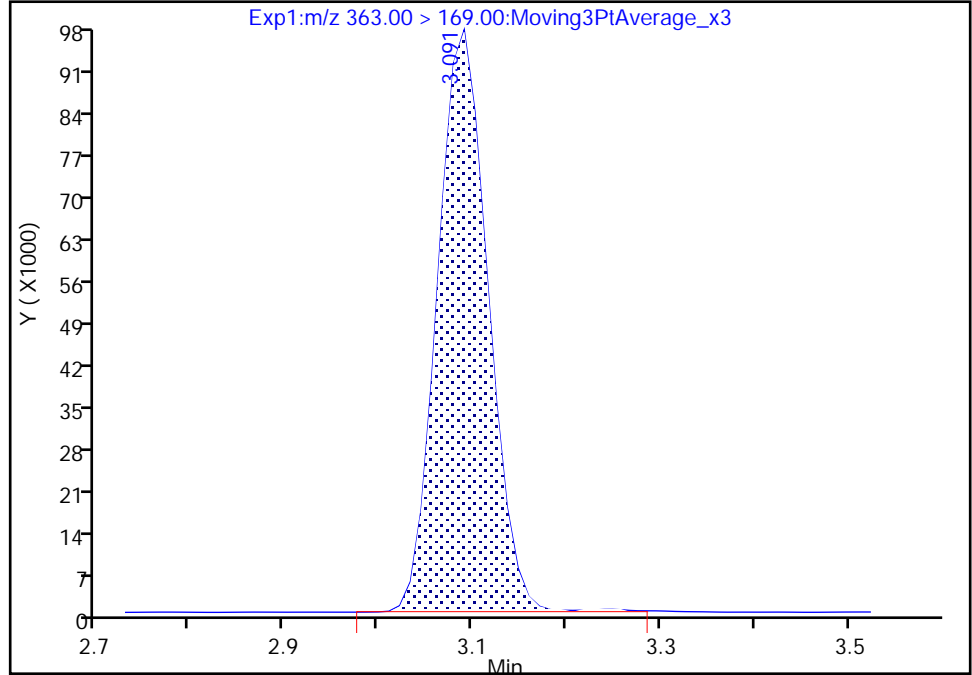
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

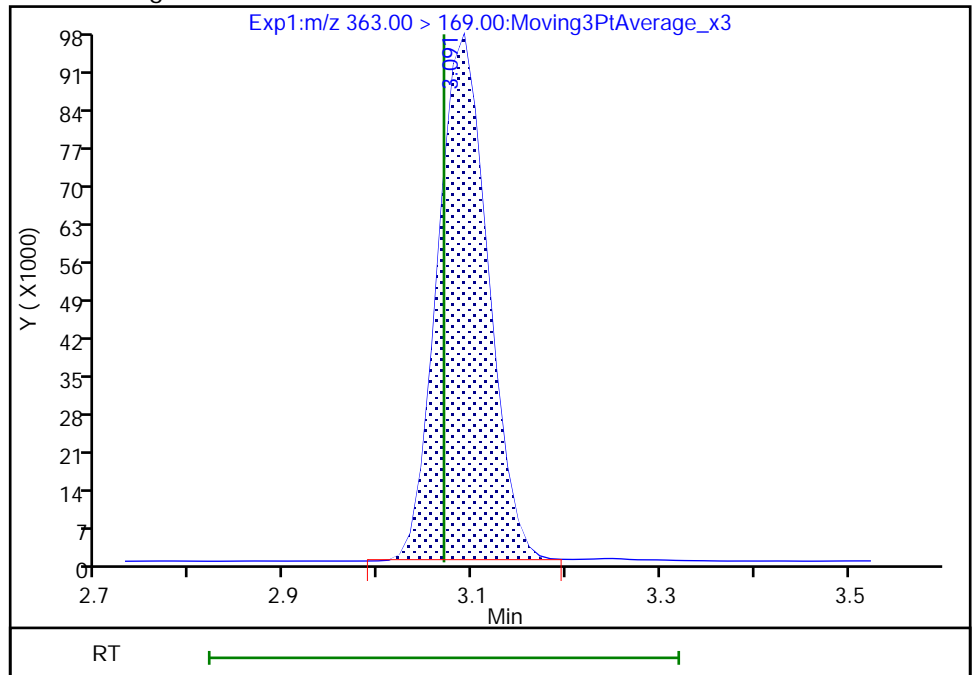
RT: 3.09
Area: 364603
Amount: 0.890712
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 362702
Amount: 0.890712
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

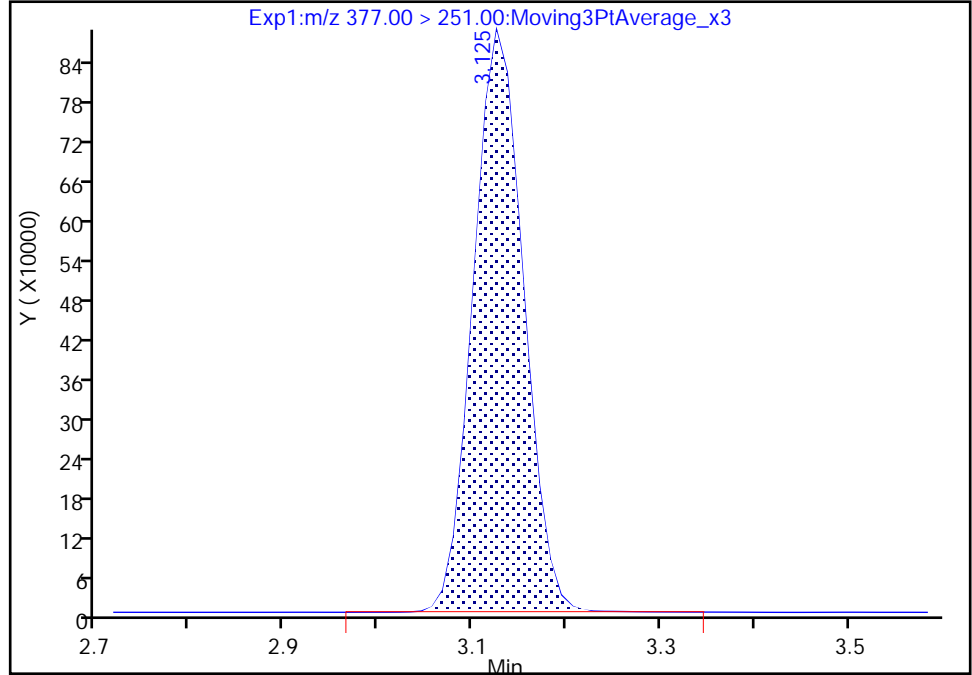
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

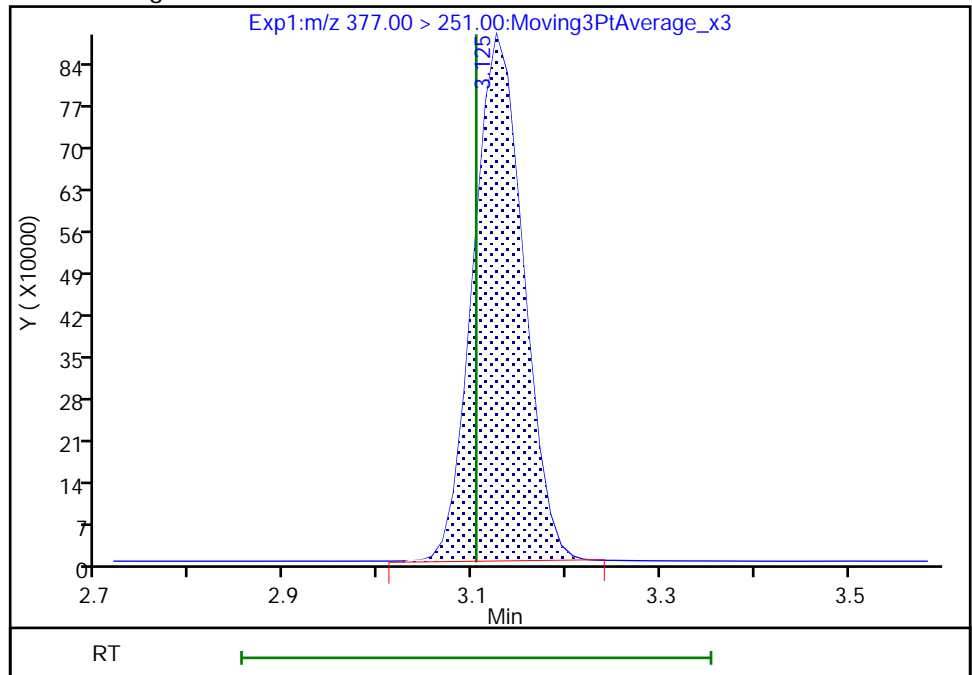
RT: 3.13
Area: 3279588
Amount: 1.086924
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 3267436
Amount: 1.082897
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

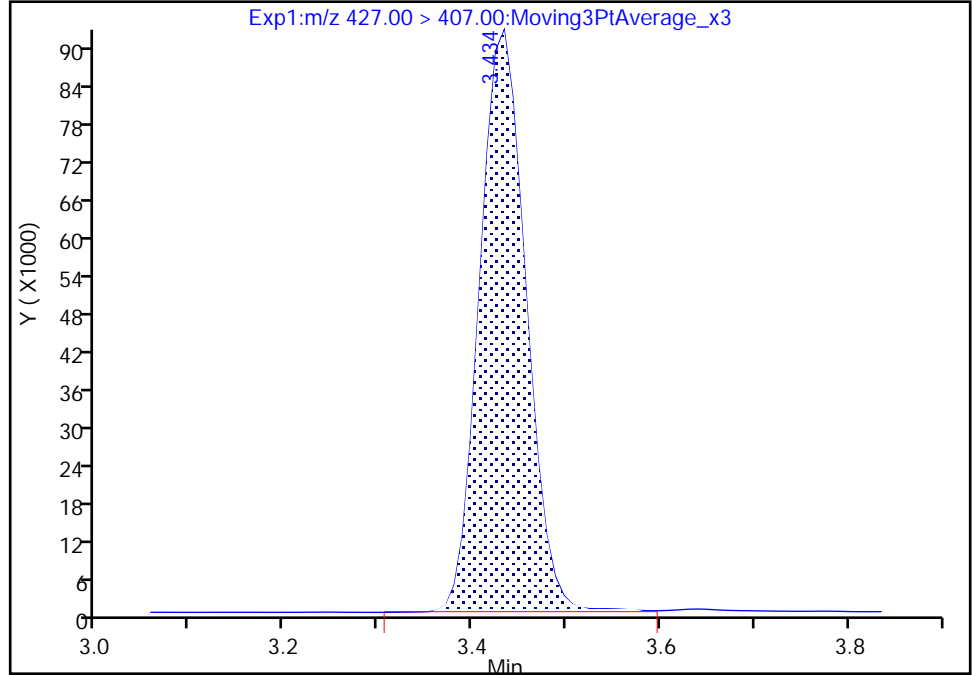
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Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

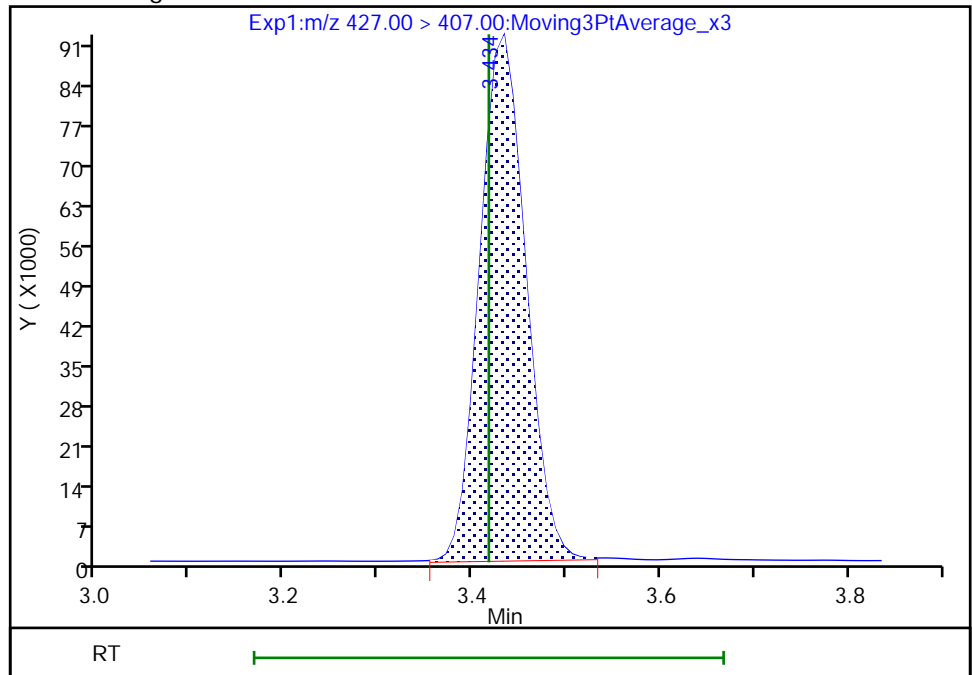
RT: 3.43
Area: 318525
Amount: 0.836011
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 317009
Amount: 0.832032
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:27:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

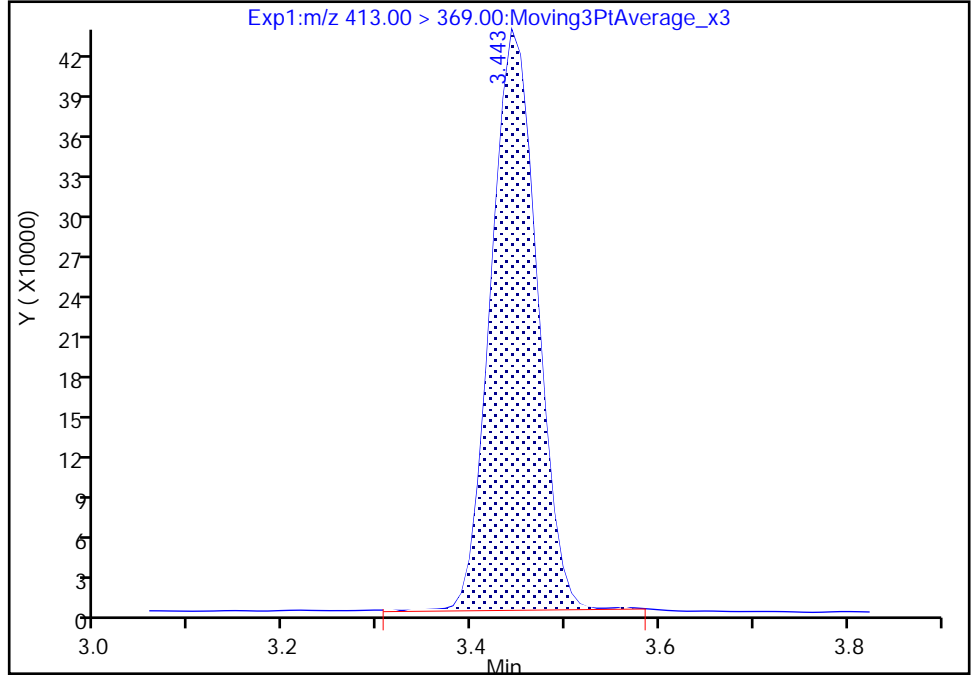
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

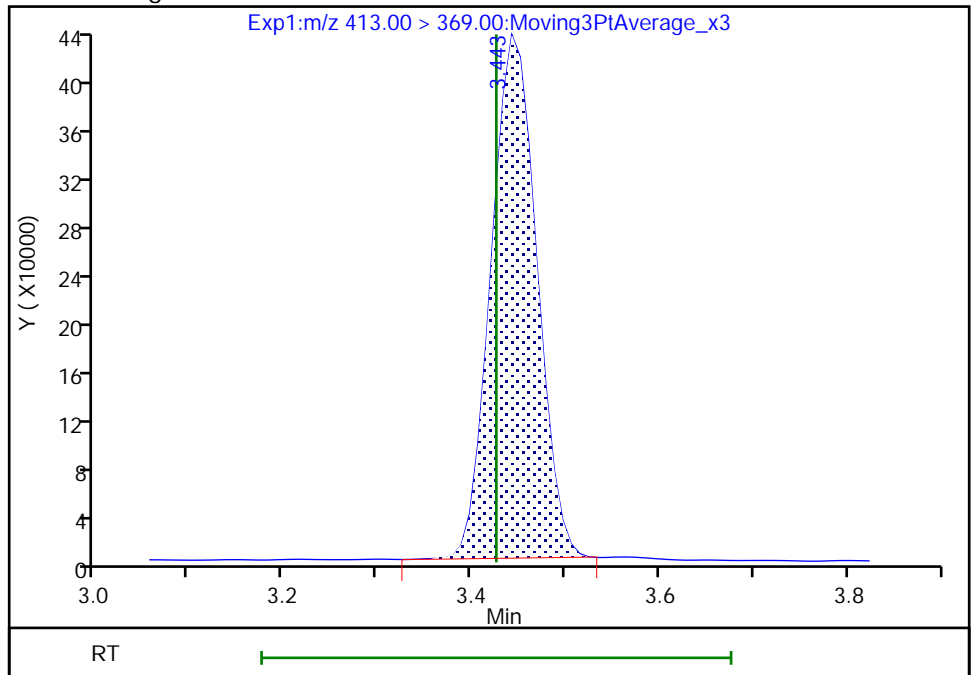
RT: 3.44
Area: 1445604
Amount: 0.926383
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1439636
Amount: 0.922559
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:28:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 529 of 950

Eurofins Burlington

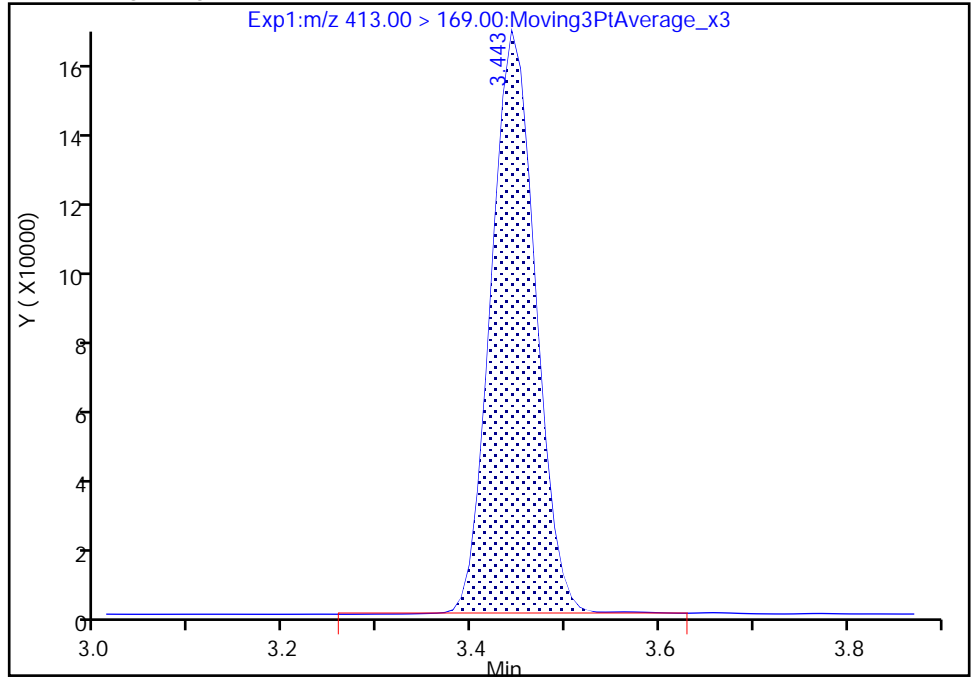
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

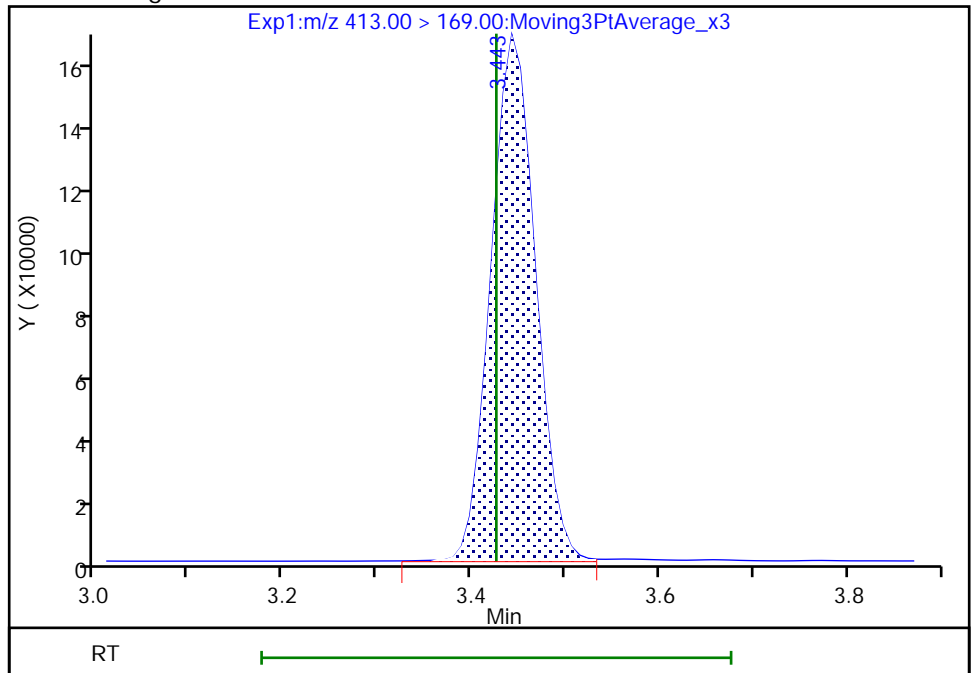
RT: 3.44
Area: 530313
Amount: 0.926383
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 528483
Amount: 0.922559
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:28:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

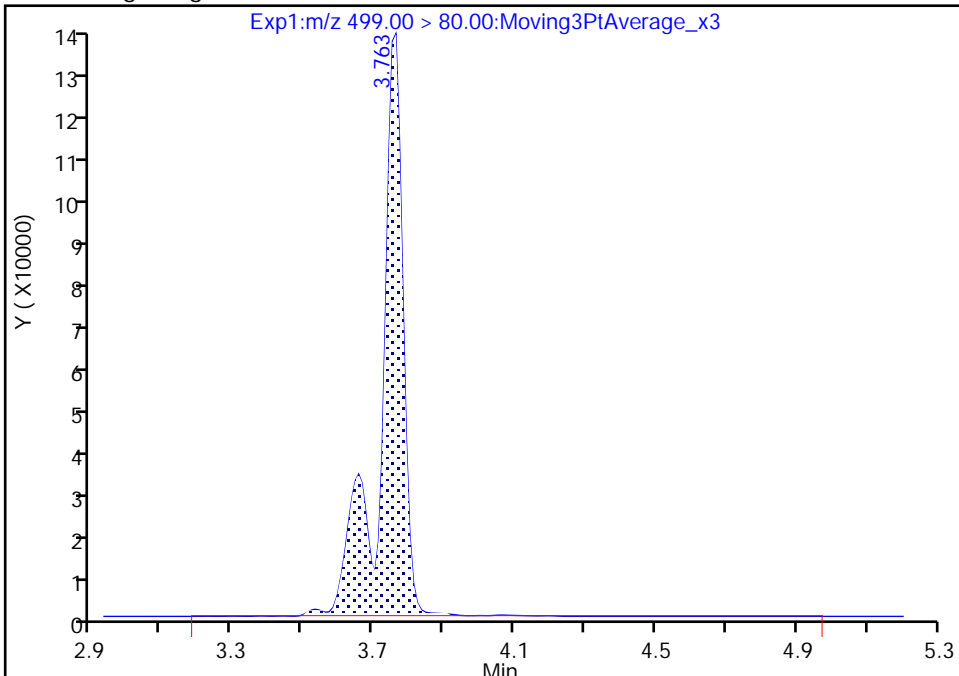
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

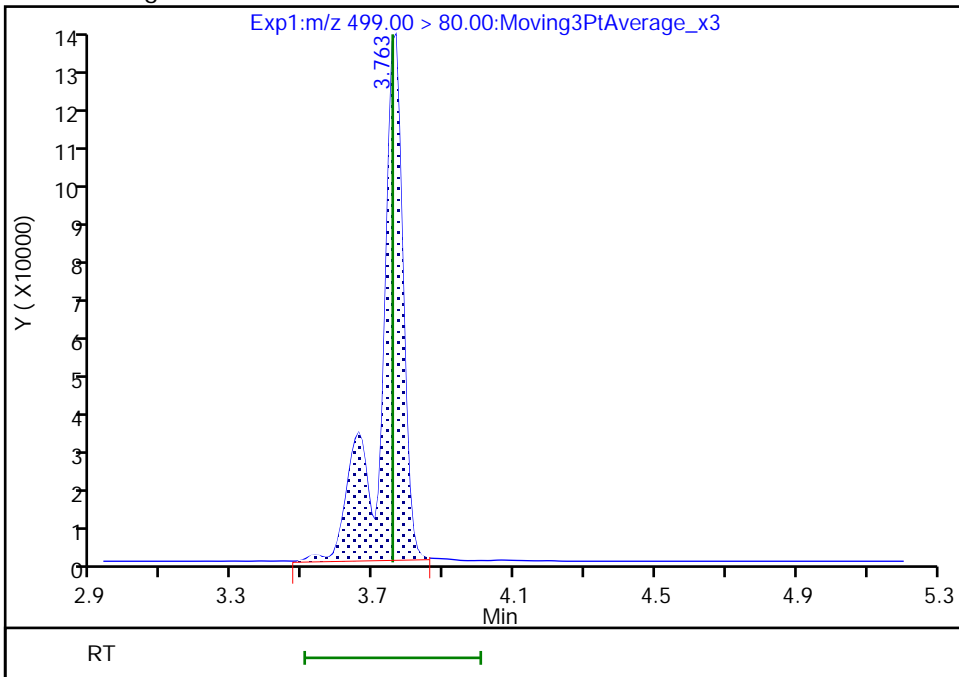
RT: 3.76
Area: 607239
Amount: 0.949987
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 598635
Amount: 0.936526
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:28:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

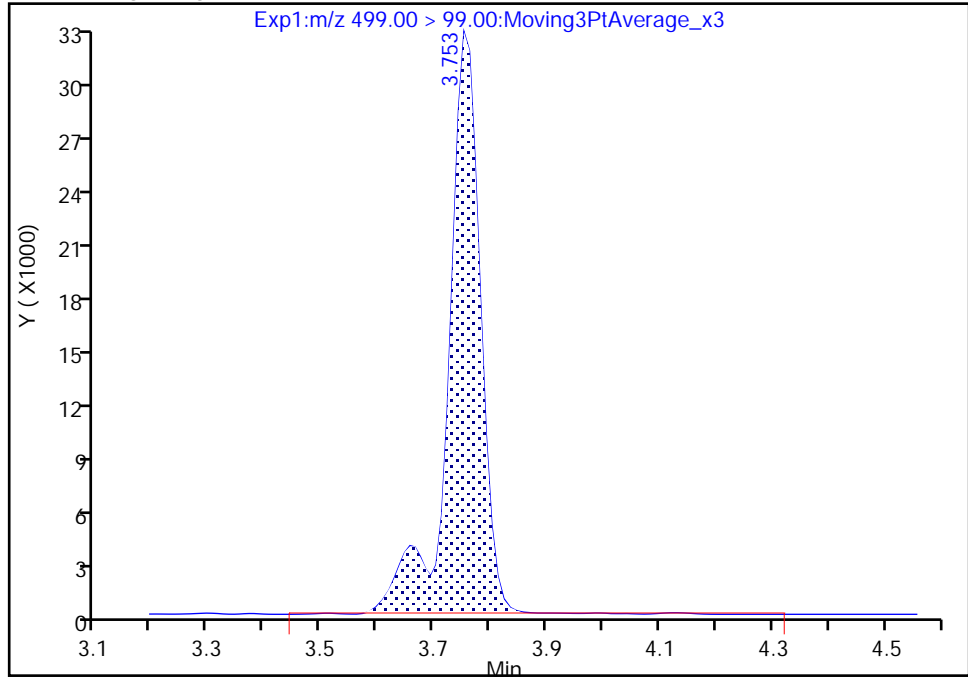
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

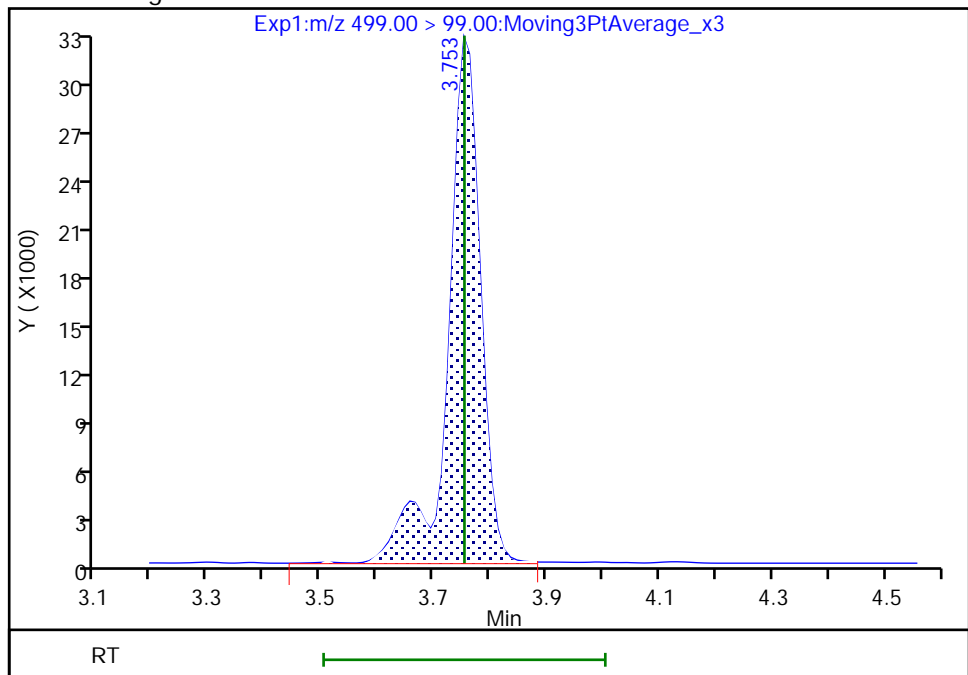
RT: 3.75
Area: 133059
Amount: 0.949987
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 132115
Amount: 0.936526
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:28:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

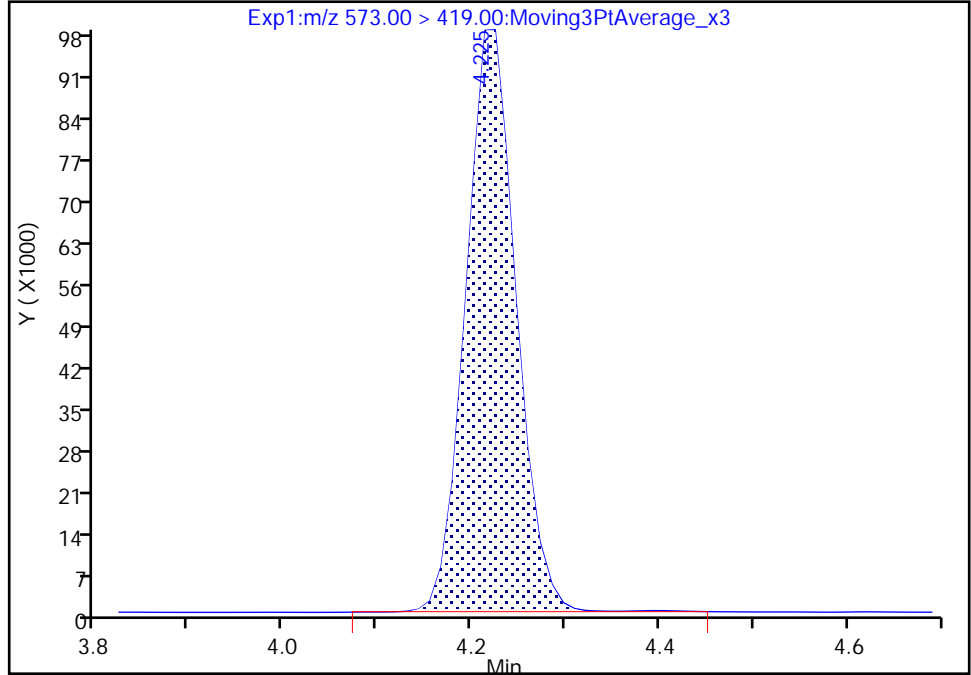
Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d		
Injection Date:	23-Jan-2023 21:26:46	Instrument ID:	LC812
Lims ID:	CCV L4		
Client ID:			
Operator ID:	LC812user	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#:	15

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

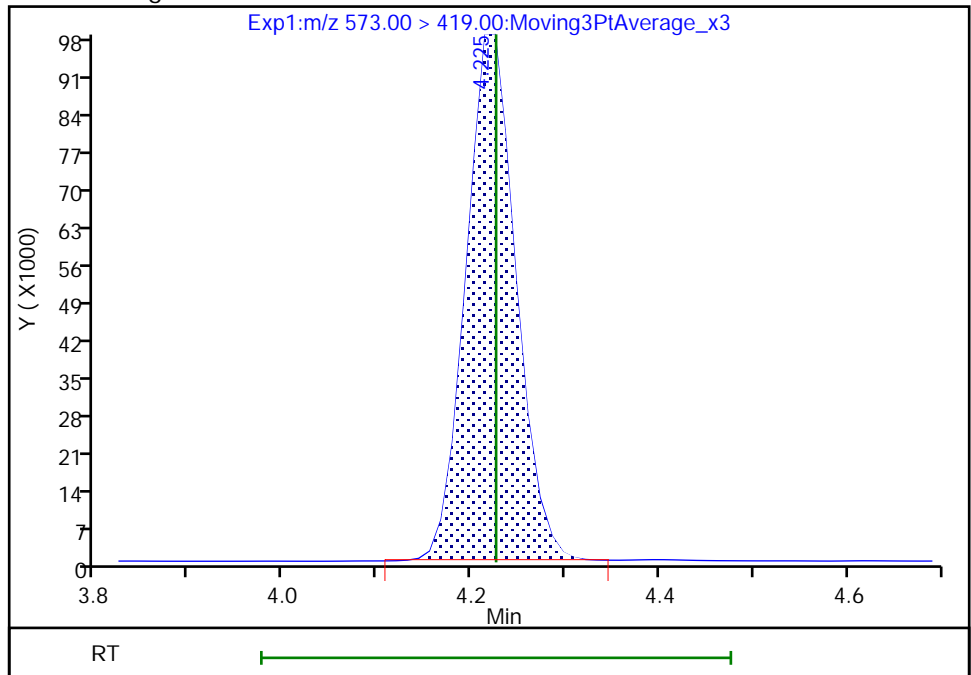
RT: 4.23
 Area: 364945
 Amount: 1.303719
 Amount Units: ng/ml

Processing Integration Results



RT: 4.23
 Area: 363439
 Amount: 1.298339
 Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:26:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

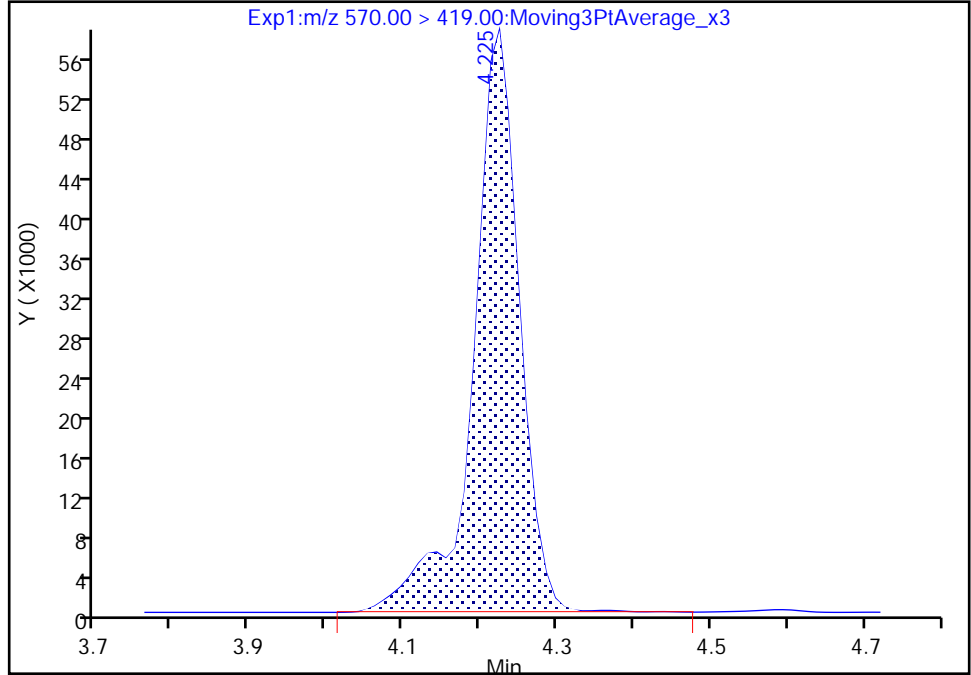
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

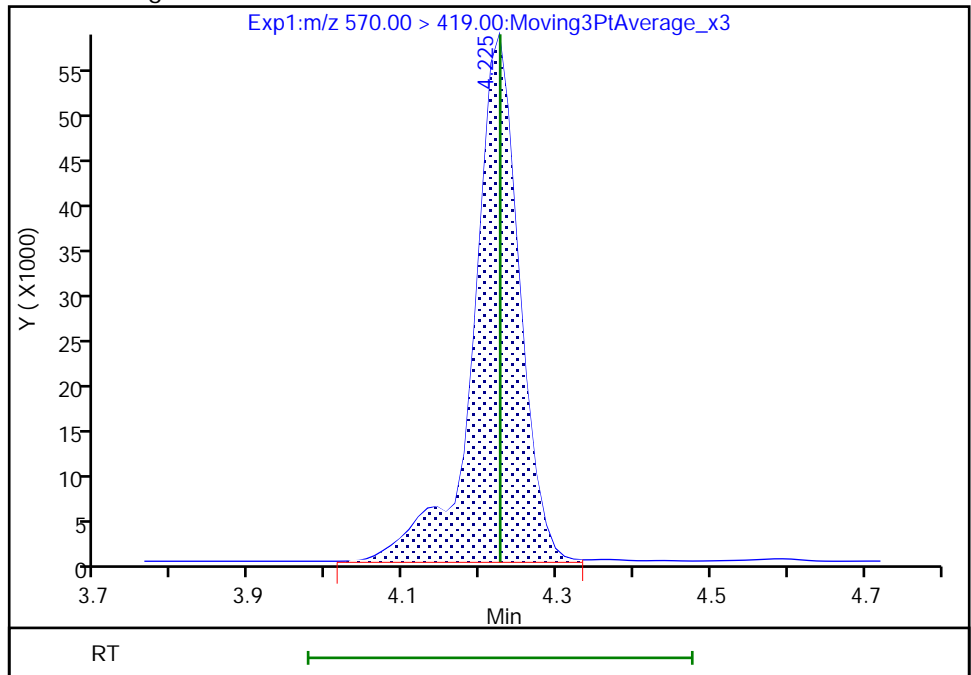
RT: 4.23
Area: 245609
Amount: 0.936896
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 244712
Amount: 0.933474
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:28:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

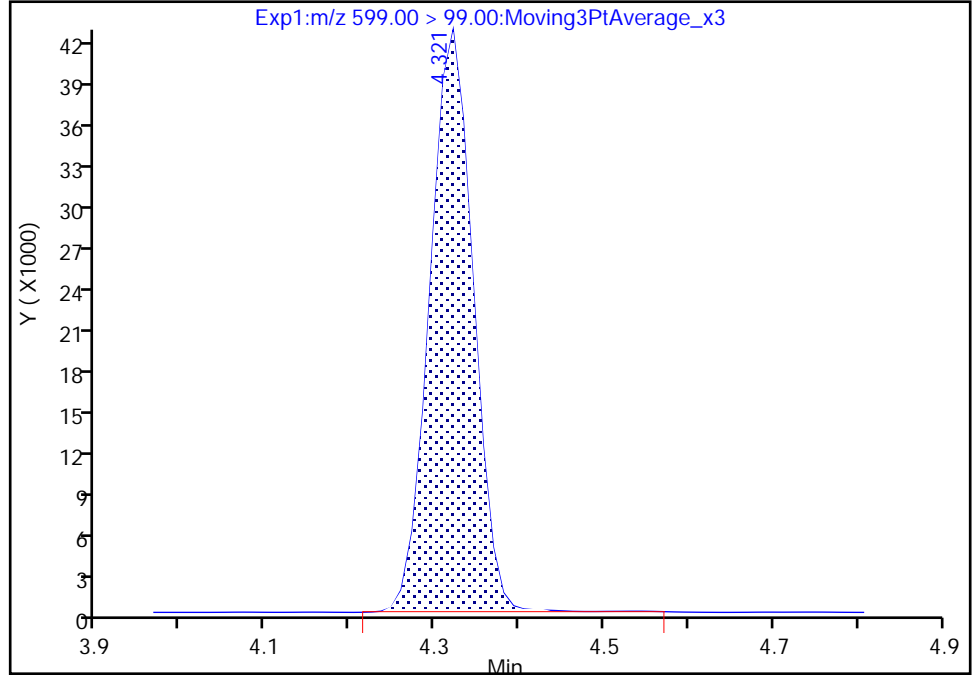
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

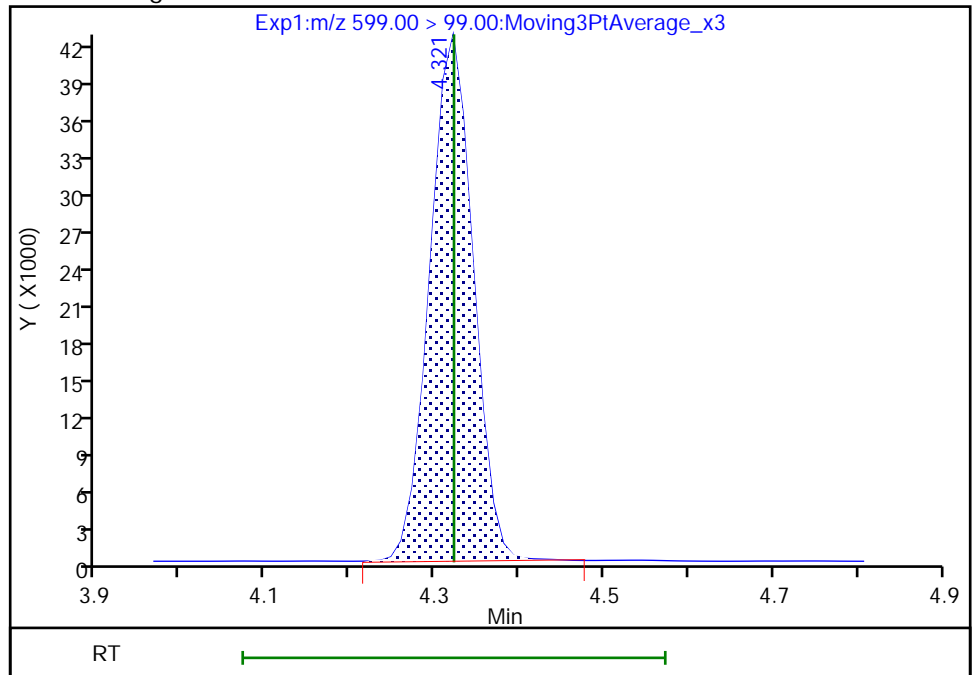
RT: 4.32
Area: 150689
Amount: 0.921775
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 150316
Amount: 0.921775
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

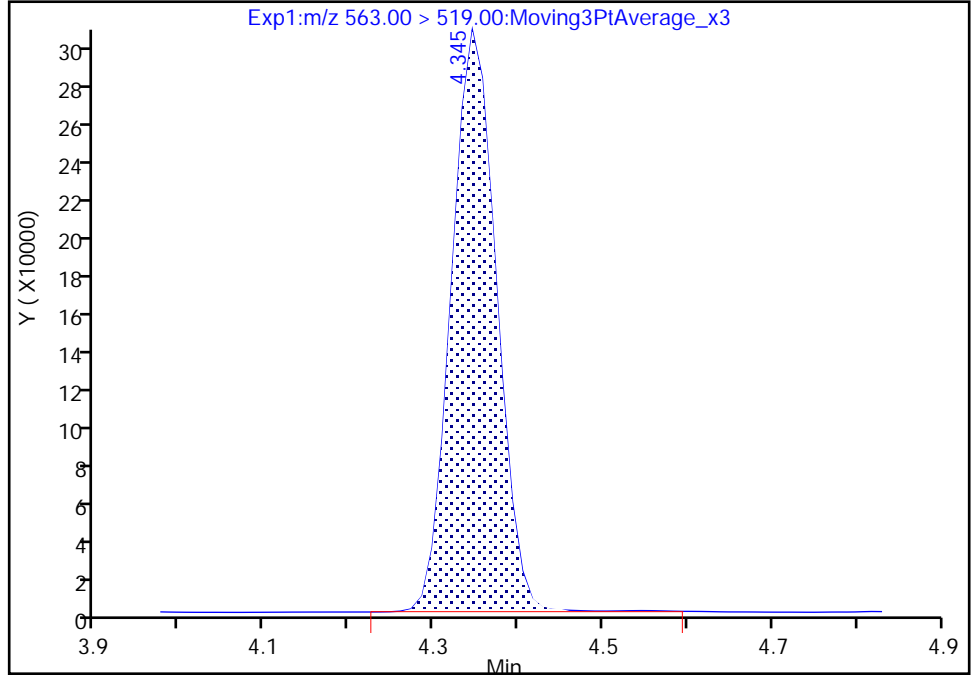
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

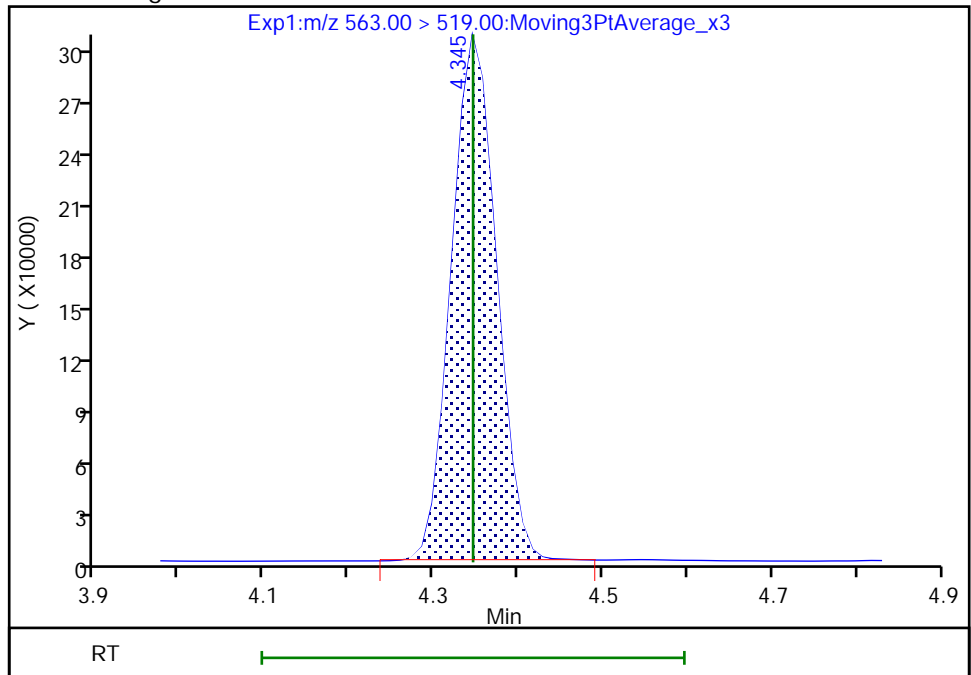
RT: 4.35
Area: 1131989
Amount: 0.940922
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1128124
Amount: 0.937710
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

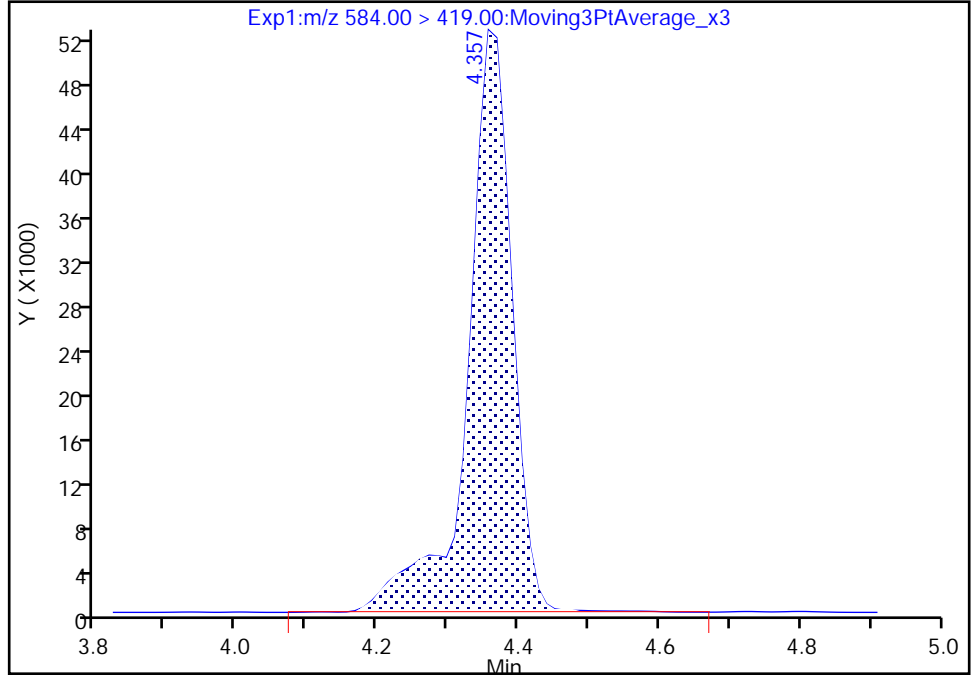
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

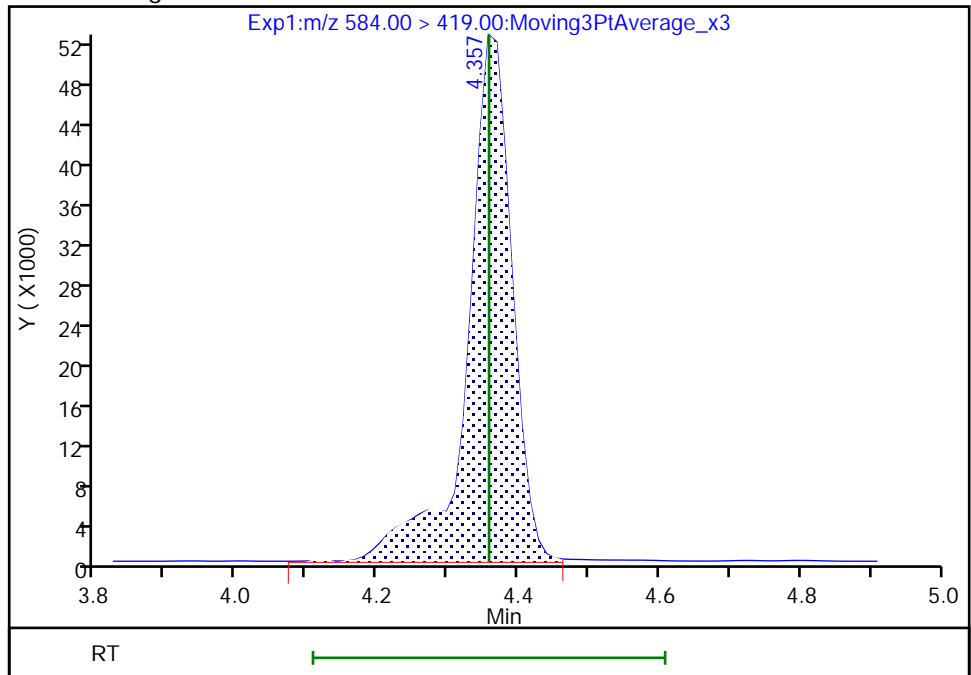
RT: 4.36
Area: 231575
Amount: 0.905443
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 230359
Amount: 0.900688
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

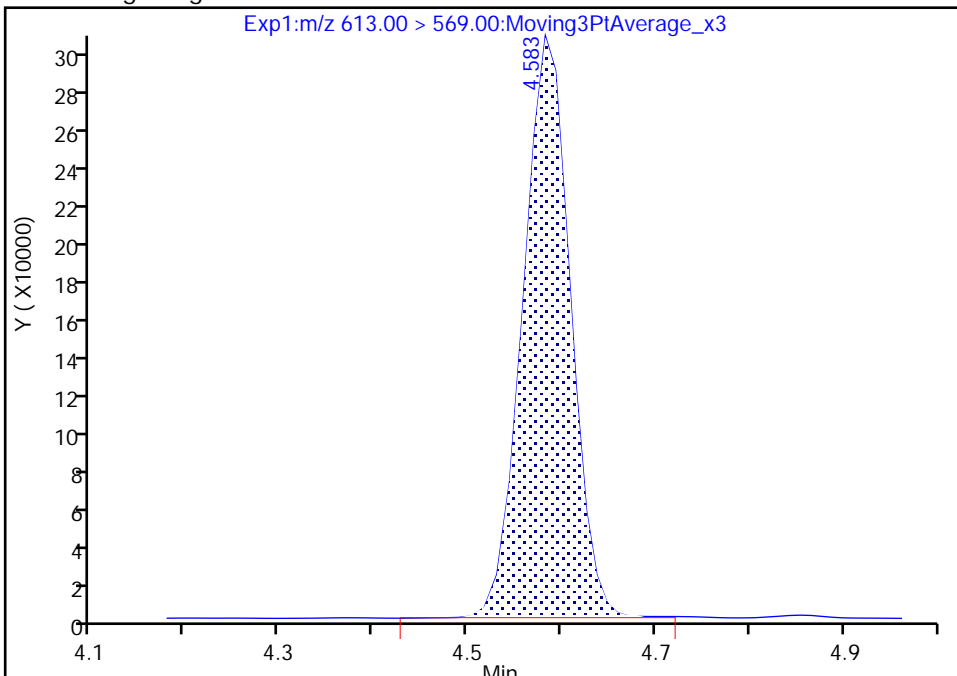
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

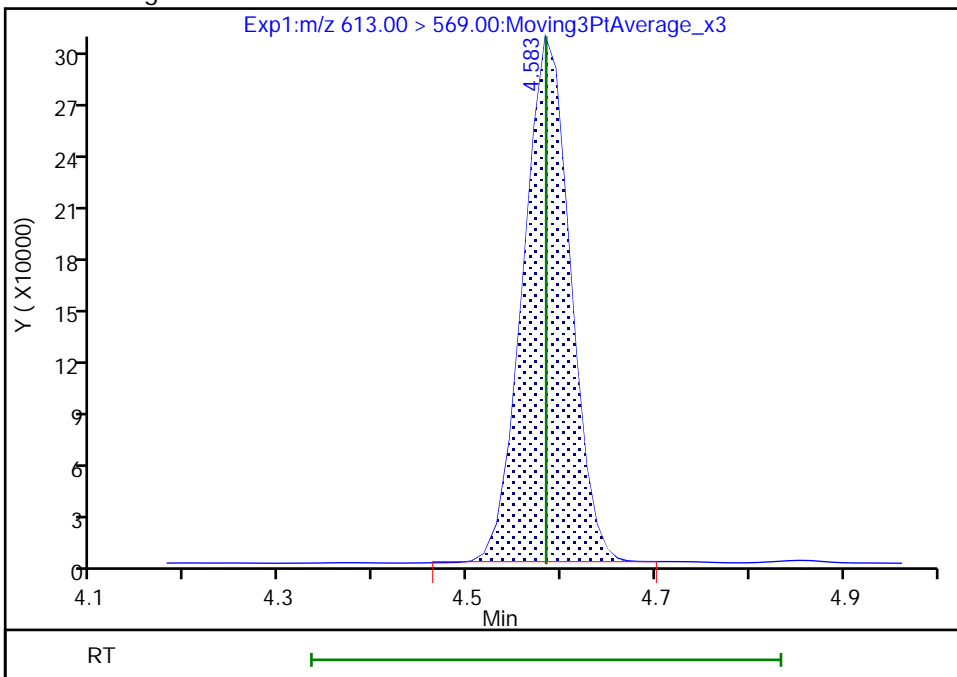
RT: 4.58
Area: 1075675
Amount: 0.952977
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 1074404
Amount: 0.951851
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

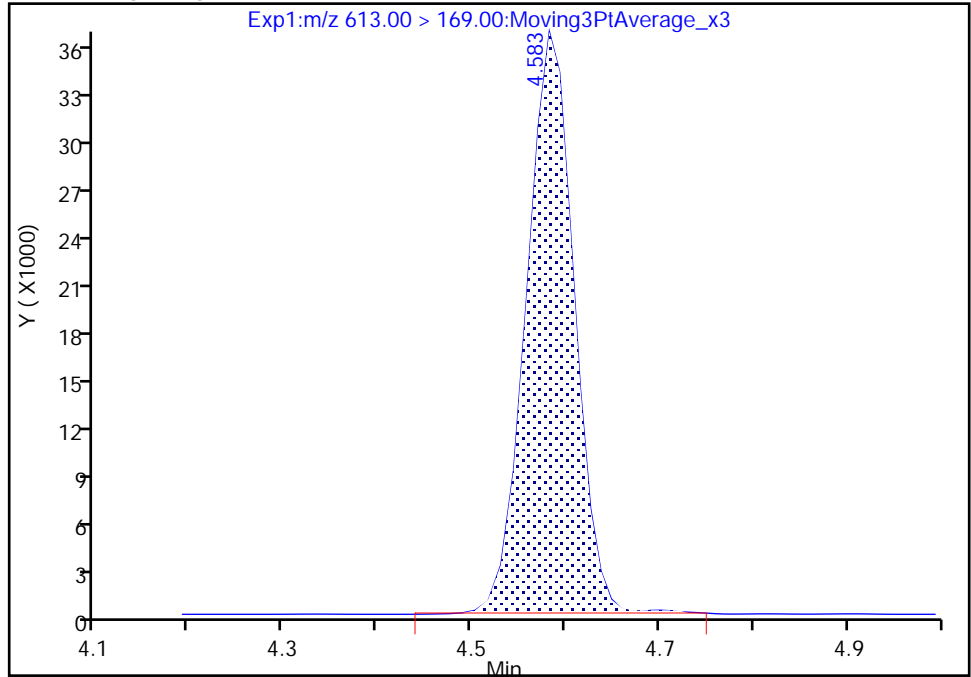
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

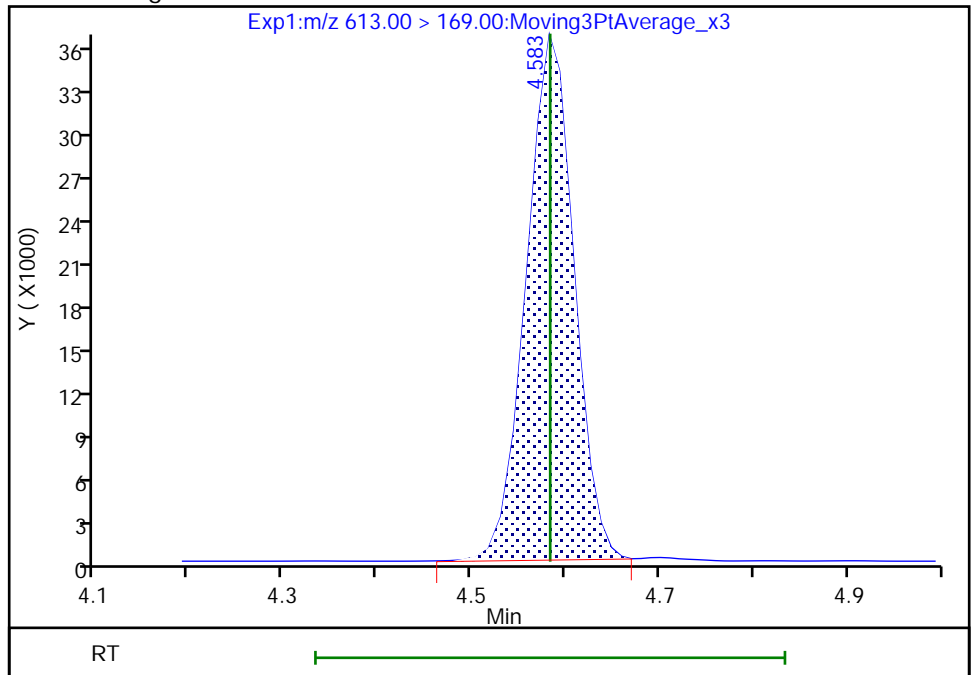
RT: 4.58
Area: 129796
Amount: 0.952977
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 128441
Amount: 0.951851
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

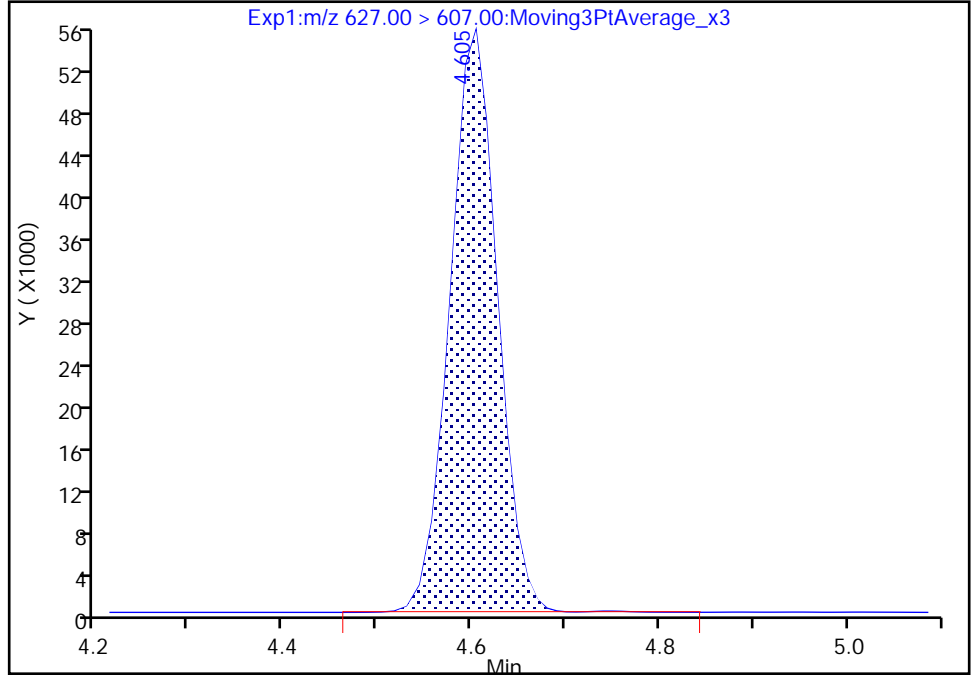
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

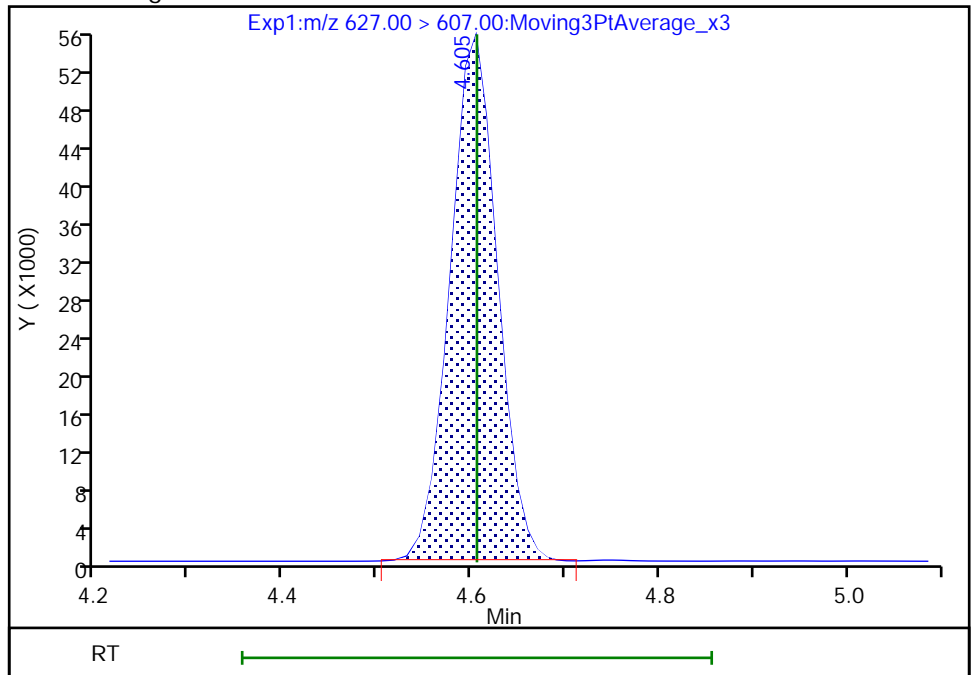
RT: 4.60
Area: 195854
Amount: 0.904180
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 195036
Amount: 0.900404
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

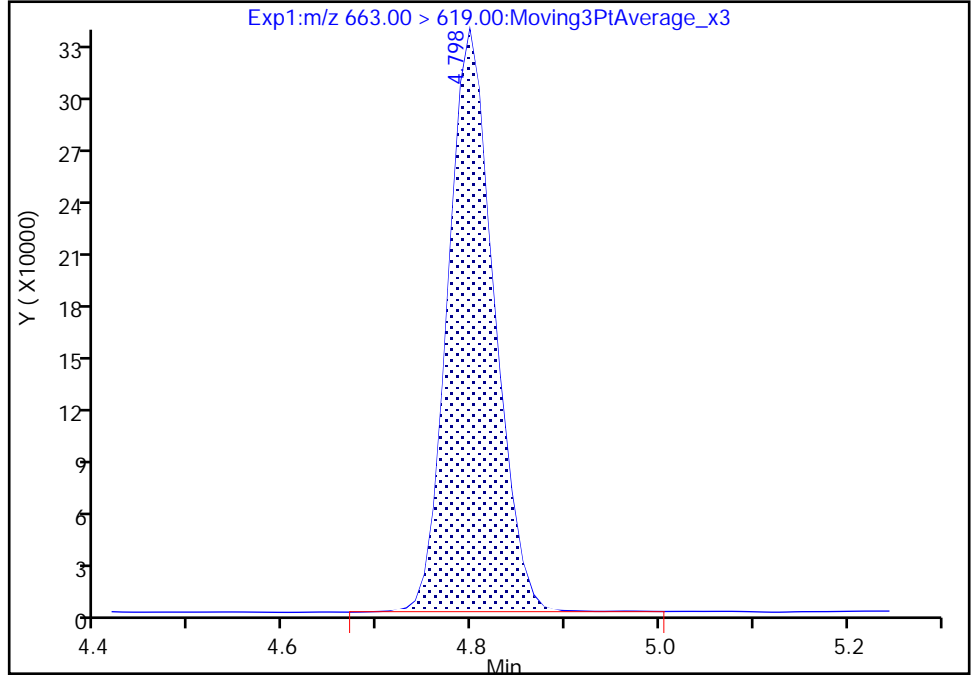
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

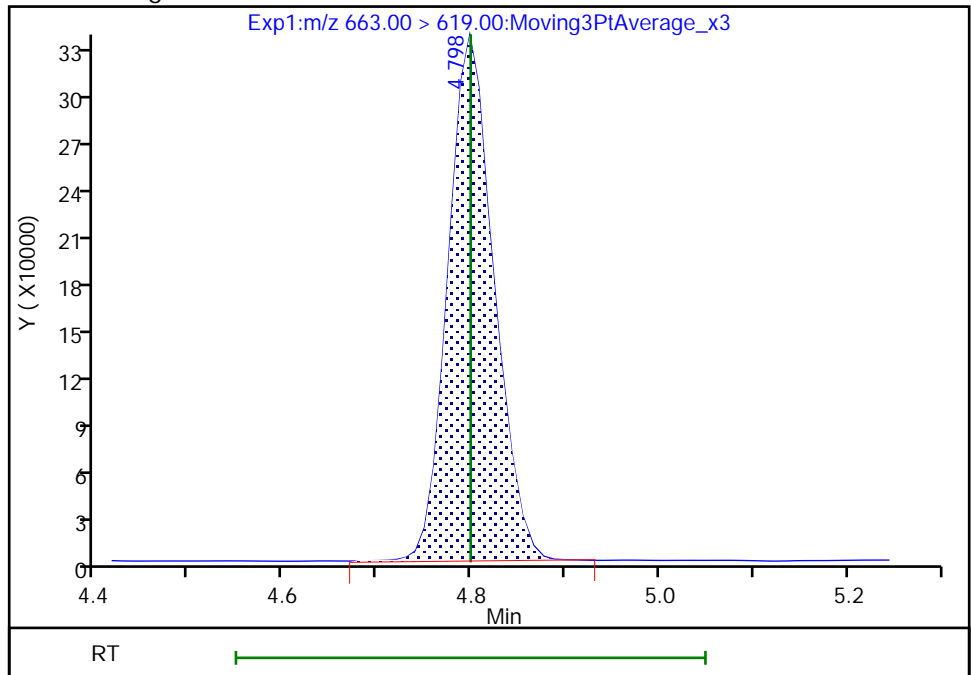
RT: 4.80
Area: 1137091
Amount: 1.008591
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 1135279
Amount: 1.006984
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

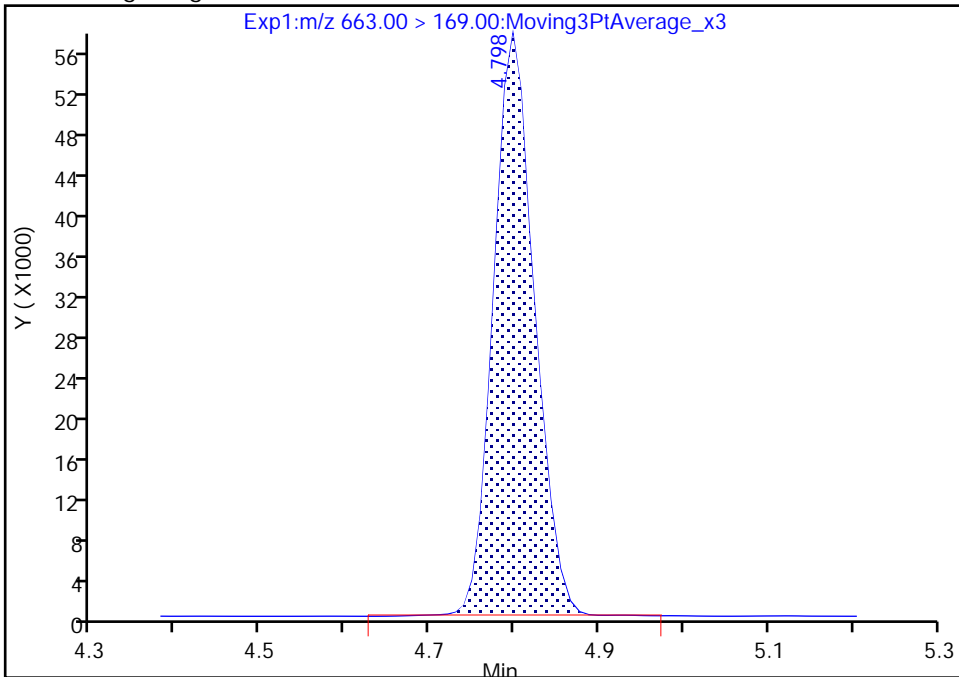
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

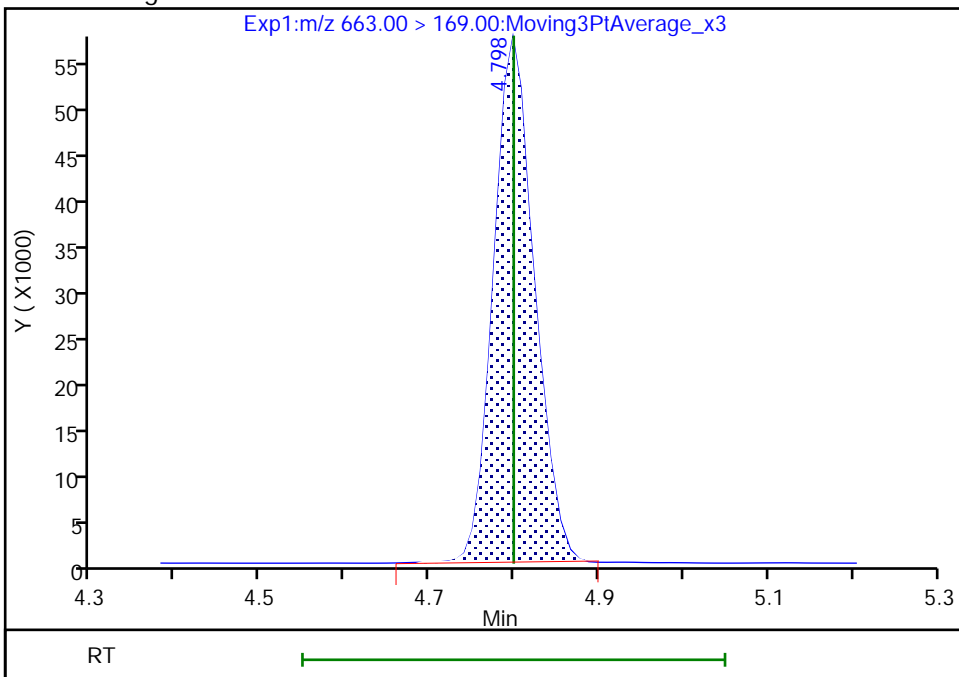
RT: 4.80
Area: 194229
Amount: 1.008591
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 193477
Amount: 1.006984
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

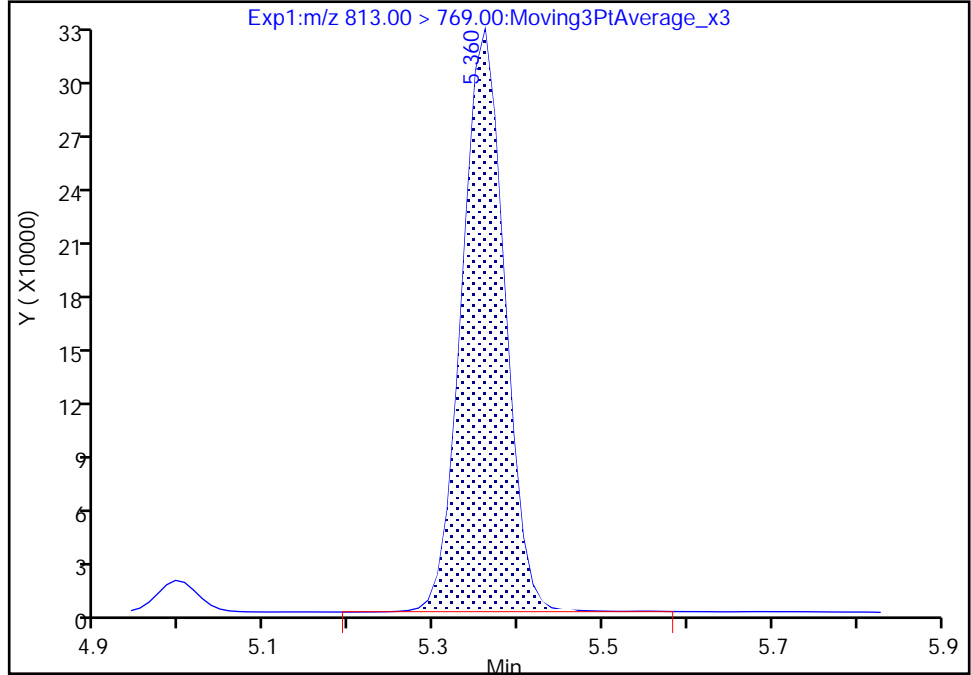
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

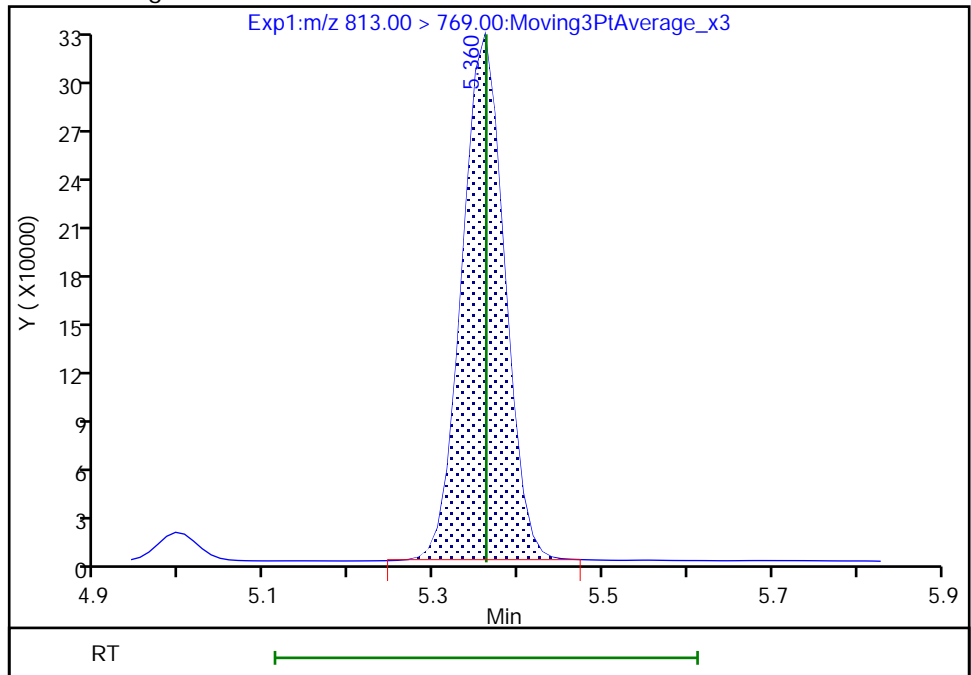
RT: 5.36
Area: 1124214
Amount: 0.979484
Amount Units: ng/ml

Processing Integration Results



RT: 5.36
Area: 1117135
Amount: 0.973217
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:29:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

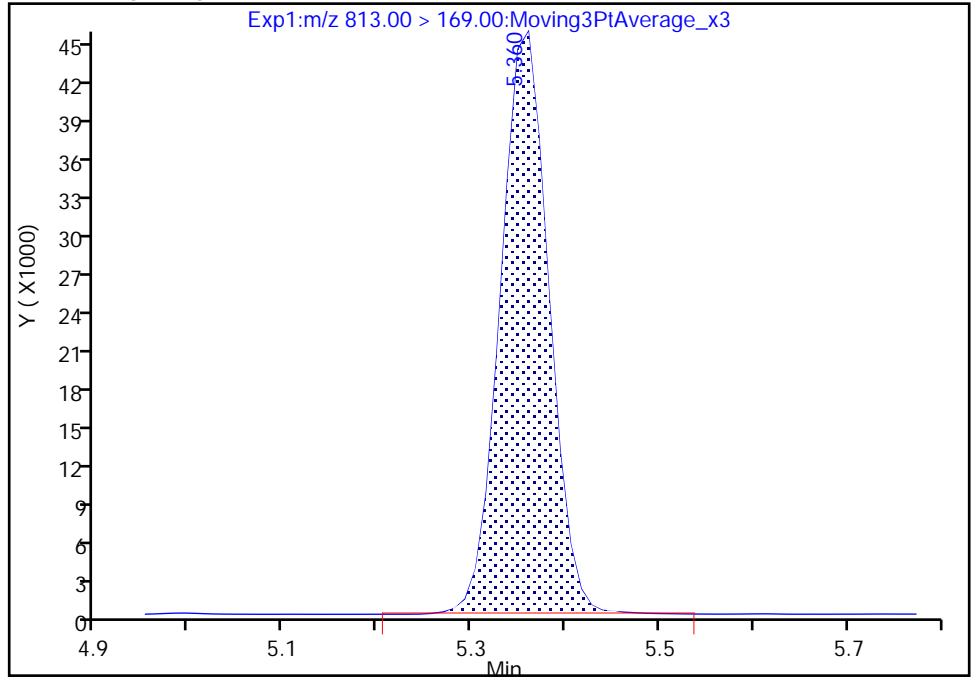
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

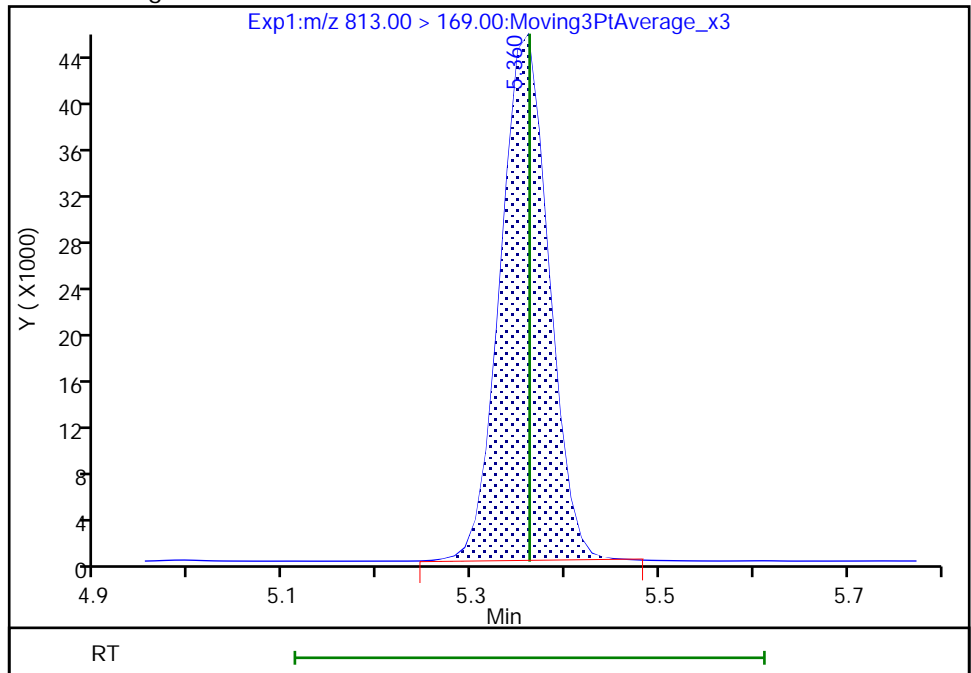
RT: 5.36
Area: 162237
Amount: 0.979484
Amount Units: ng/ml

Processing Integration Results



RT: 5.36
Area: 161556
Amount: 0.973217
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:30:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

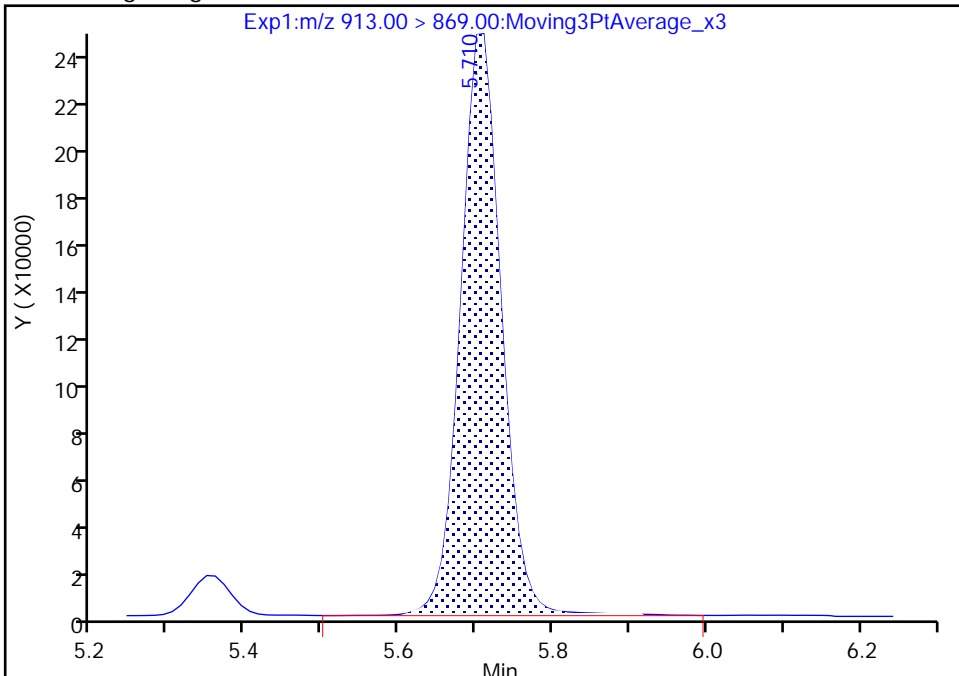
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

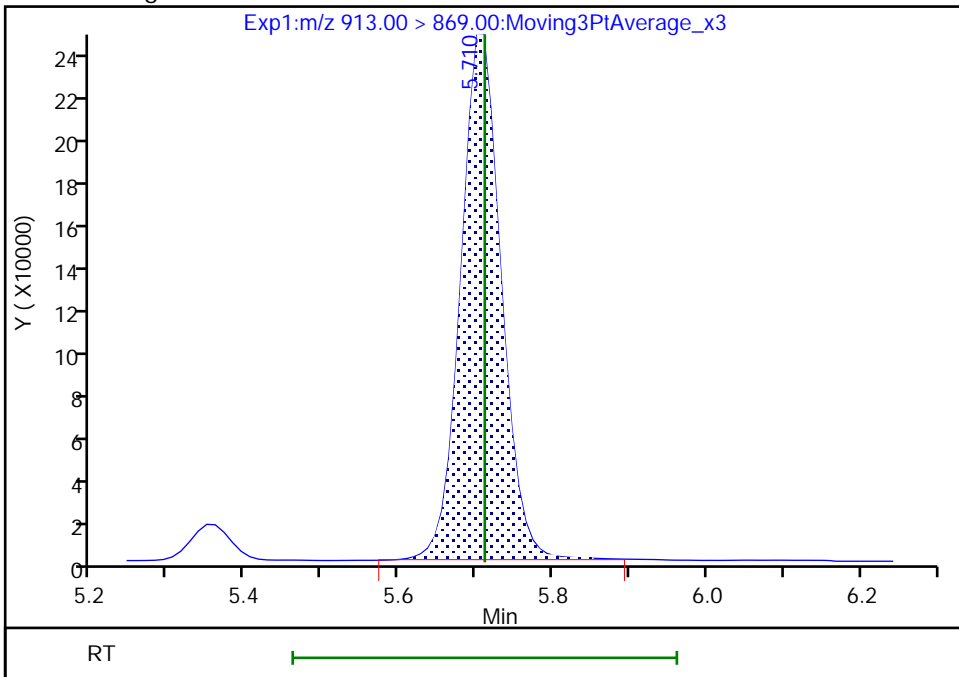
RT: 5.71
Area: 921835
Amount: 0.920471
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 910213
Amount: 0.908866
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:30:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

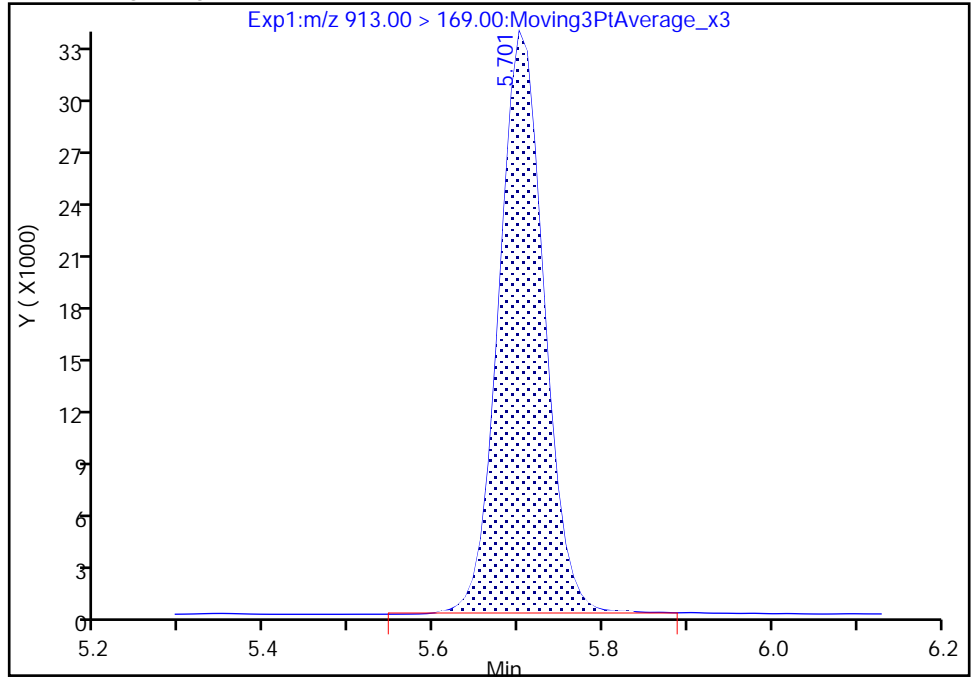
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B15.d
Injection Date: 23-Jan-2023 21:26:46 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

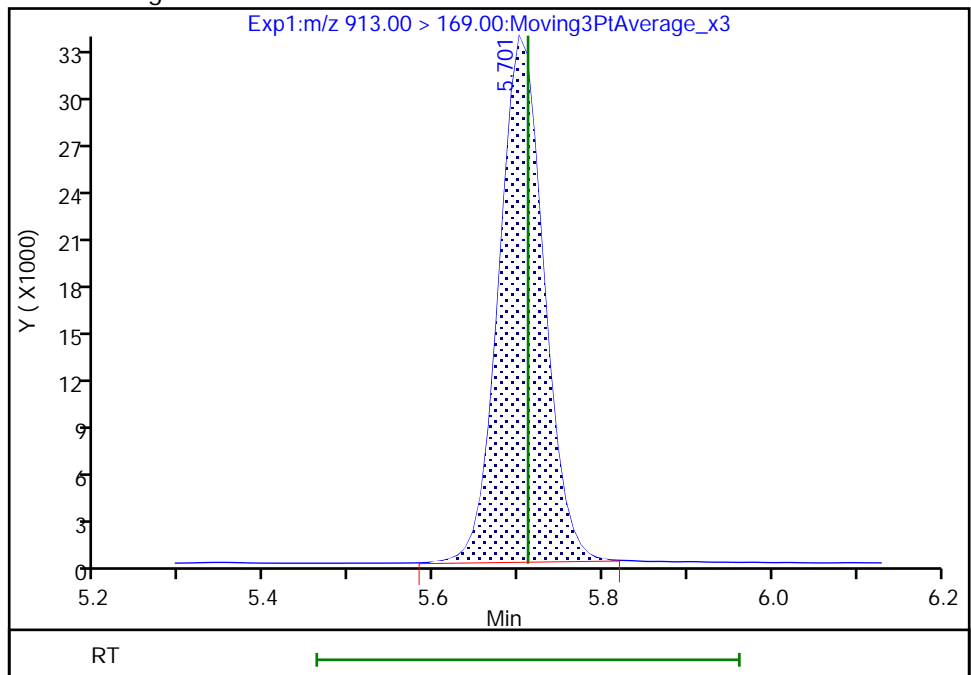
RT: 5.70
Area: 122867
Amount: 0.920471
Amount Units: ng/ml

Processing Integration Results



RT: 5.70
Area: 121816
Amount: 0.908866
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:30:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187759/26 Calibration Date: 01/23/2023 22:56
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123B26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.8820		2.28	2.50	-8.6	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.035		2.26	2.50	-9.7	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.064		2.20	2.21	-0.6	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	3.069		2.42	2.34	3.7	
Perfluorohexanoic acid (PFHxA)	AveID	1.054	0.8820		2.09	2.50	-16.3	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.317		2.50	2.35	6.5	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.8657		2.17	2.50	-13.4	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.054		2.19	2.28	-3.9	
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	1.126		2.64	2.50	5.8	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	5.263		2.16	2.36	-8.2	
6:2 FTS	AveID	2.290	2.256		2.34	2.37	-1.5	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.410		2.31	2.38	-3.1	
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.092		2.51	2.50	0.3	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.120		2.14	2.32	-7.8	
Perfluorononanoic acid (PFNA)	AveID	1.022	0.9310		2.28	2.50	-8.9	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.705		2.17	2.33	-6.7	
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.8399		2.00	2.40	-16.8	
Perfluorodecanoic acid (PFDA)	AveID	1.069	1.019		2.38	2.50	-4.7	
8:2 FTS	AveID	1.814	1.794		2.37	2.40	-1.1	
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.8634		2.15	2.50	-14.1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.8414		2.33	2.50	-6.7	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.6702		2.15	2.41	-10.9	
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.016		2.33	2.50	-7.0	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.9084		2.44	2.50	-2.2	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	4.127		2.17	2.36	-8.0	
Perfluorododecanoic acid (PFDoA)	AveID	1.018	0.8713		2.14	2.50	-14.4	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.091		2.29	2.41	-4.9	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2828		2.24	2.42	-7.4	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187759/26 Calibration Date: 01/23/2023 22:56
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230123B26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	0.9577		2.35	2.50	-5.8	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1063		2.13	2.50	-14.8	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9700		2.64	2.50	5.7	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.7282		2.25	2.50	-10.0	
13C4 PFBA	Ave	1.150	1.188		1.29	1.25	3.3	
13C5 PFPeA	Ave	0.9294	0.8121		1.09	1.25	-12.6	
13C3 PFBS	Ave	1.020	0.7938		0.904	1.16	-22.2	
M2-4:2 FTS	Ave	0.0825	0.0712		1.01	1.17	-13.7	
13C2 PFHxA	Ave	0.9657	0.8770		1.14	1.25	-9.2	
13C3 HFPO-DA	Ave	0.1673	0.1335		0.997	1.25	-20.2	
18O2 PFHxS	Ave	0.7424	0.5741		0.914	1.18	-22.7	50.0
13C4 PFHpA	Ave	0.9669	0.8905		1.15	1.25	-7.9	50.0
M2-6:2 FTS	Ave	0.1170	0.1076		1.09	1.19	-8.0	
13C4 PFOA	Ave	1.024	0.9491		1.16	1.25	-7.4	50.0
13C4 PFOS	Ave	0.4514	0.3939		1.04	1.20	-12.7	50.0
13C5 PFNA	Ave	0.998	0.9694		1.21	1.25	-2.9	50.0
13C2 PFDA	Ave	1.024	0.8784		1.07	1.25	-14.2	
M2-8:2 FTS	Ave	0.1466	0.1223		0.999	1.20	-16.6	
13C8 FOSA	Ave	0.8320	0.7654		1.15	1.25	-8.0	
d3-NMeFOSAA	Ave	0.2013	0.2098		1.30	1.25	4.3	
13C2 PFUnA	Ave	0.8836	0.7787		1.10	1.25	-11.9	
d5-NEtFOSAA	Ave	0.1934	0.1836		1.19	1.25	-5.0	
13C2 PFDoA	Ave	0.8860	0.7841		1.11	1.25	-11.5	
13C2 PFTeDA	Ave	0.7620	0.8152		1.34	1.25	7.0	
13C2 PFHxDA	Ave	0.9339	0.8523		1.14	1.25	-8.7	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jan-2023 22:56:36 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0054084-026 Plate: 1 Rack: 2
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Jan-2023 18:25:23 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1668

First Level Reviewer: khanphomeea Date: 24-Jan-2023 11:37:15

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	2.077	2.094	-0.017	0.603	2125544	1.29	103	15632	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.094	-0.017	1.000	3749602	2.28		91.4	313	M
D 3 13C5 PFPeA	267.90 > 223.00	2.384	2.370	0.014	0.692	1453111	1.09	87.4	4215	
4 Perfluoropentanoic acid	262.90 > 219.00	2.384	2.370	0.014	1.000	3006943	2.26	90.3	73.5	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1320967	0.9044	77.8	113005	M
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.397	2.384	0.013	1.000	2672968	2.20	Target=2.10	99.4	3299
298.90 > 99.00	2.397	2.384	0.013	1.000	1339600		2.00(1.05-3.15)		988	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.693	2.669	0.024	1.000	730563	2.42	104	5257	
D 60 M2-4:2 FTS	329.00 > 81.00	2.693	2.669	0.024	0.782	119009	1.01	86.3	141	M
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1569378	1.14	90.8	10496	
6 Perfluorohexanoic acid	313.00 > 269.00	2.718	2.706	0.012	0.995	2768251	2.09	Target=13.16	83.7	384
313.00 > 119.00	2.730	2.706	0.024	1.000	229146		12.08(6.58-19.74)		455	M
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.886	2538739	2.50	Target=2.90	107	3875
349.00 > 99.00	2.730	2.706	0.024	0.886	881073		2.88(1.45-4.35)		1898	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	413579	2.17	86.6	4489	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	238877	1.00		79.8	3066	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.895	971747	0.9144		77.3	3879	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.000	1971226	2.19	Target=3.18	96.1	3116	M
399.00 > 99.00	3.080	3.069	0.011	1.000	589705		3.34(1.59-4.77)		1151	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1593527	1.15		92.1	7642	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	3589135	2.64	Target=4.10	106	692	M
363.00 > 169.00	3.091	3.069	0.022	1.000	800088		4.49(2.05-6.16)		2900	M
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.833	6989876	2.16	Target=2.96	91.8	5083	
377.00 > 85.00	3.126	3.104	0.022	0.833	2288552		3.05(1.48-4.44)		3998	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.425	3.417	0.008	0.995	182941	1.09		92.0	780	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.425	3.417	0.008	1.000	823813	2.34		98.5	770	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.425	3.417	0.008	0.913	1892105	2.31	Target=4.59	96.9	3170	M
449.00 > 99.00	3.425	3.417	0.008	0.913	380602		4.97(2.30-6.89)		1551	M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1698240	1.16		92.6	5456	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1789391	1.25			3873	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	3707898	2.51	Target=2.71	100	318	M
413.00 > 169.00	3.443	3.426	0.017	1.000	1363871		2.72(1.36-4.07)		2494	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	673903	1.04		87.3	3085	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.003	1465703	2.14	Target=4.23	92.2	1702	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	338433		4.33(2.11-6.34)		2087	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	3229941	2.28	Target=8.78	91.1	655	
463.00 > 169.00	3.773	3.774	-0.001	1.000	365545		8.84(4.39-13.17)		2520	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1734661	1.21		97.1	7268	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.045	3553843	2.17		93.3	4191	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	1136768	2.00	Target=2.37	83.2	7069	
549.00 > 99.00	4.052	4.043	0.009	1.080	510411		2.23(1.18-3.55)		3425	M
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1571853	1.07		85.8	4648	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	3203440	2.38	Target=11.13	95.3	1101	
513.00 > 169.00	4.073	4.074	-0.001	1.000	307033		10.43(5.56-16.69)		2096	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	209670	1.00		83.4	1420	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	752123	2.37		98.9	5744	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	2365029	2.15		85.9	3139	M
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1369538	1.15		92.0	2601	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.227	375485	1.30		104	654	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.226	4.226	0.0	1.000	631876	2.33		93.3	1037	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.151	910913	2.15	Target=2.45	89.1	3973	M
599.00 > 99.00	4.322	4.322	0.0	1.151	384728		2.37(1.23-3.68)		2642	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1393399	1.10		88.1	5472	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	2830022	2.33	Target=10.33	93.0	854	M
563.00 > 169.00	4.346	4.346	0.0	1.000	235626		12.01(5.17-15.50)		1790	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	596939	2.44		97.8	1374	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.358	4.358	0.0	1.266	328583	1.19		95.0	898	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	5480868	2.17		92.0	7916	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	2444891	2.14	Target=8.10	85.6	352	
613.00 > 169.00	4.583	4.584	-0.001	1.000	331981		7.36(4.05-12.15)		3662	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1403068	1.11		88.5	5782	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	460376	2.29		95.1	5159	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.268	385981	2.24	Target=0.51	92.6	9263	
699.00 > 99.00	4.760	4.770	-0.010	1.268	699090		0.55(0.26-0.77)		8297	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.798	4.799	-0.001	1.047	2687429	2.35	Target=6.06	94.2	396	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	446123		6.02(3.03-9.09)		3348	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.994	4.998	-0.004	1.000	310248	2.13	Target=0.83	85.2	3346	
713.00 > 219.00	4.994	4.998	-0.004	1.000	357108		0.87(0.42-1.25)		4205	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.450	1458715	1.34		107	6720	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.360	5.362	-0.002	1.000	2958718	2.64	Target=6.74	106	438	
813.00 > 169.00	5.360	5.362	-0.002	1.000	432260		6.84(3.37-10.11)		4518	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1525180	1.14		91.3	8240	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.710	5.711	-0.001	1.065	2221279	2.25	Target=6.99	90.0	369	M
913.00 > 169.00	5.710	5.711	-0.001	1.065	310589		7.15(3.50-10.49)		1326	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00031

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d

Injection Date: 23-Jan-2023 22:56:36

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: LC812user

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

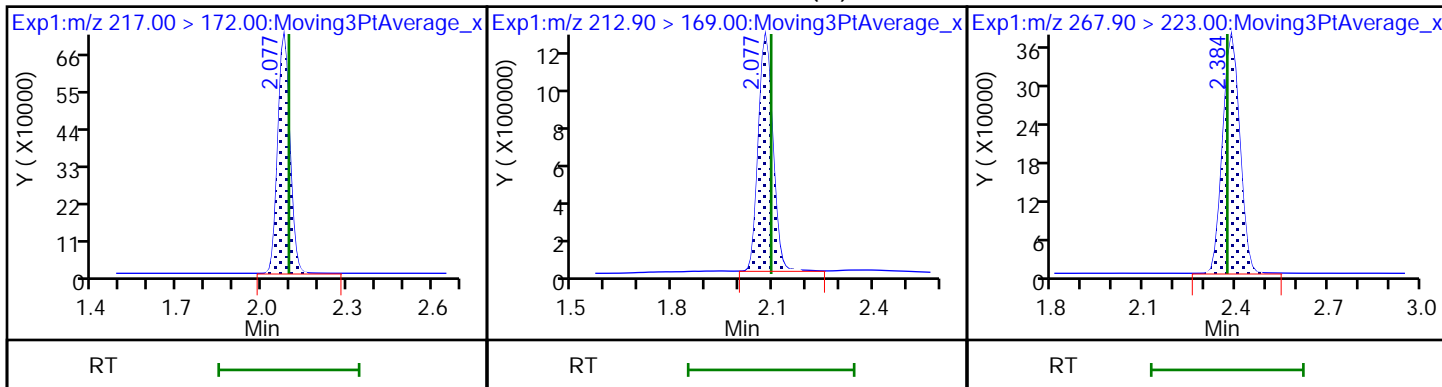
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

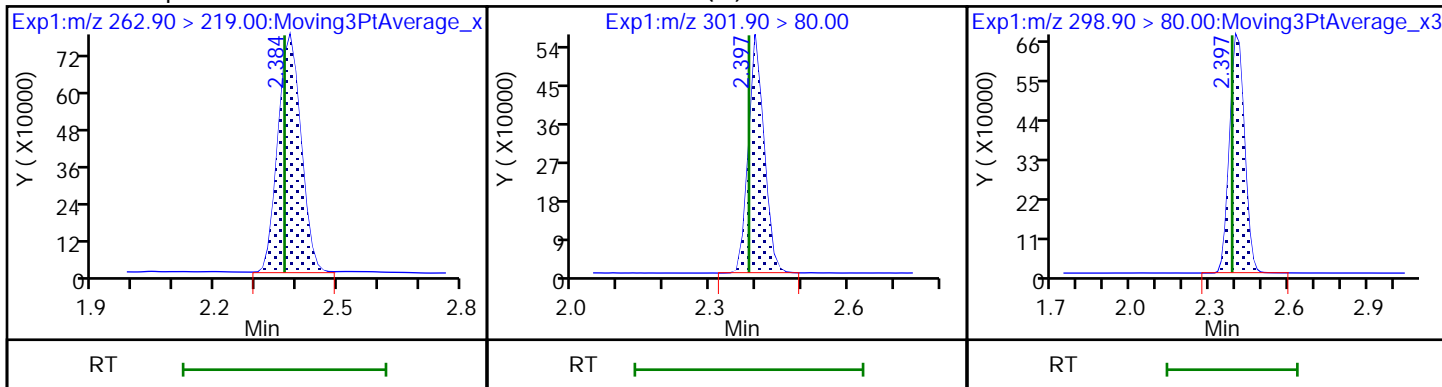
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

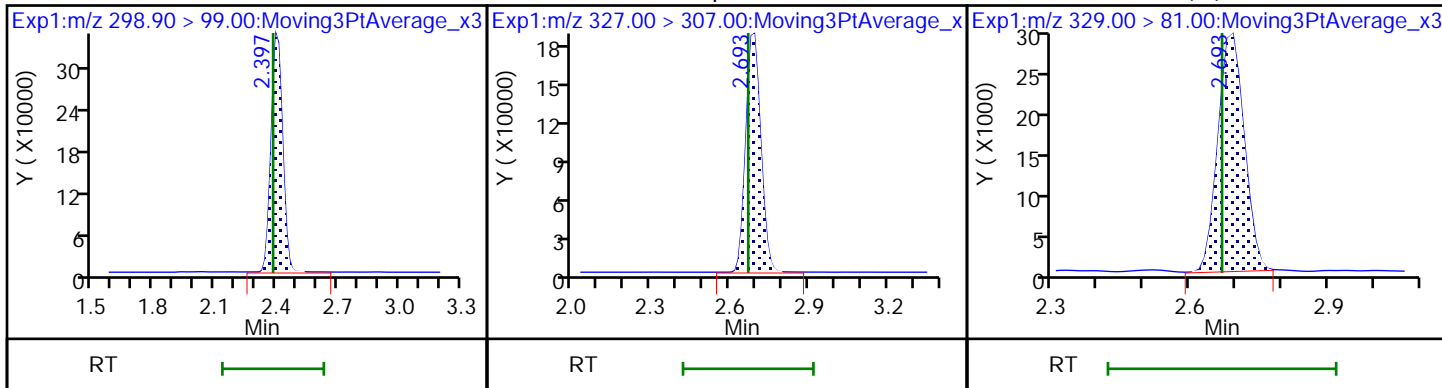
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

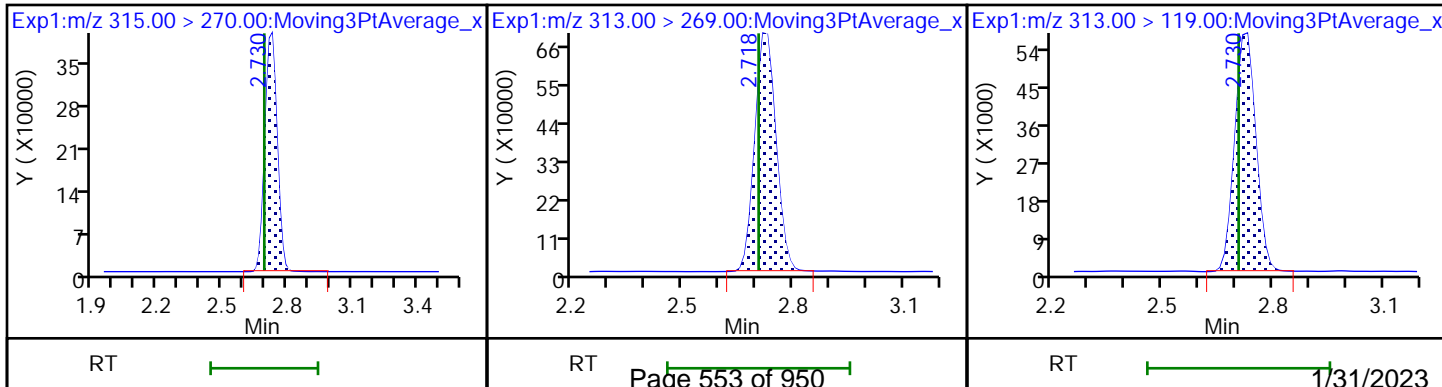
D 60 M2-4:2 FTS (M)

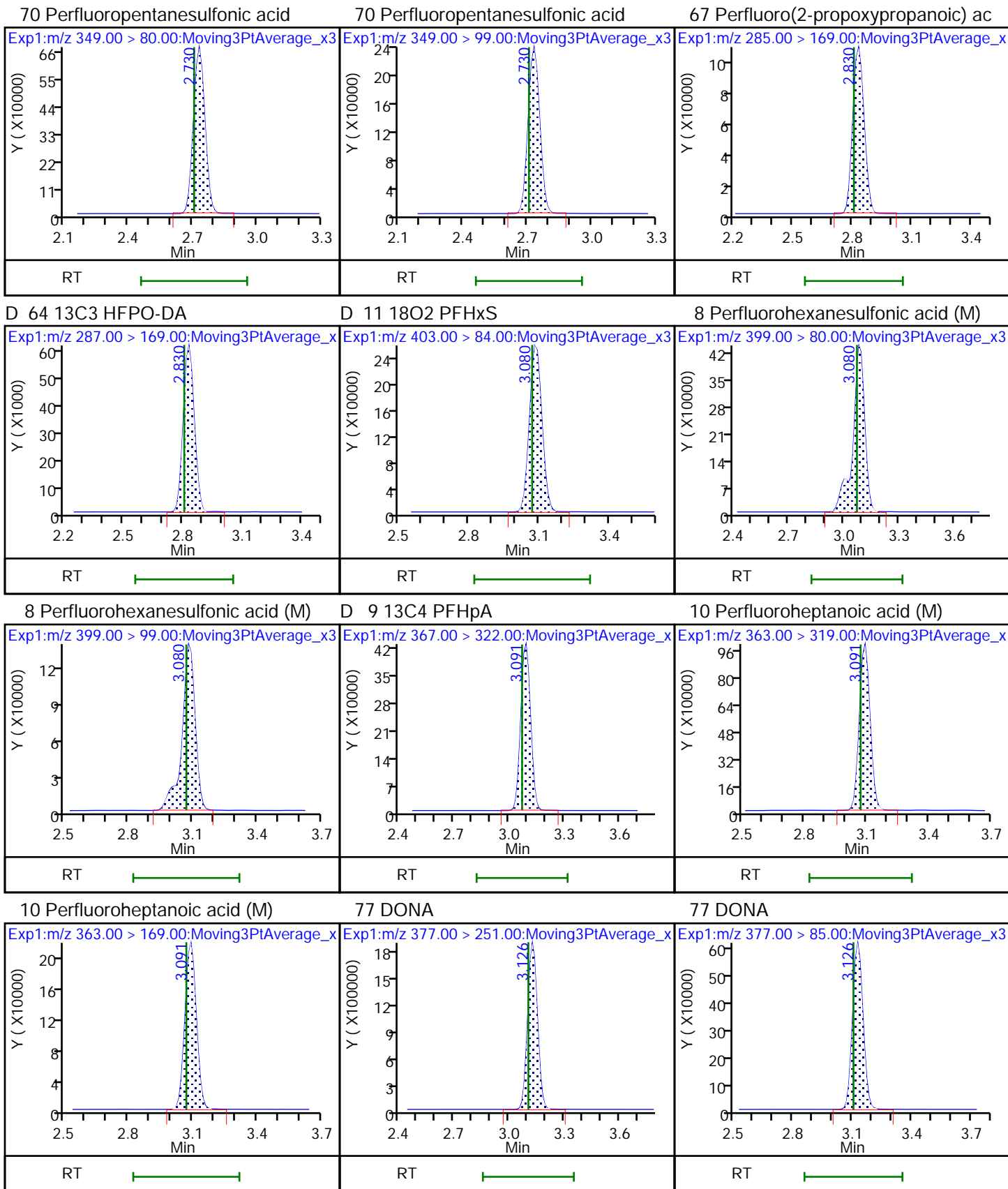


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

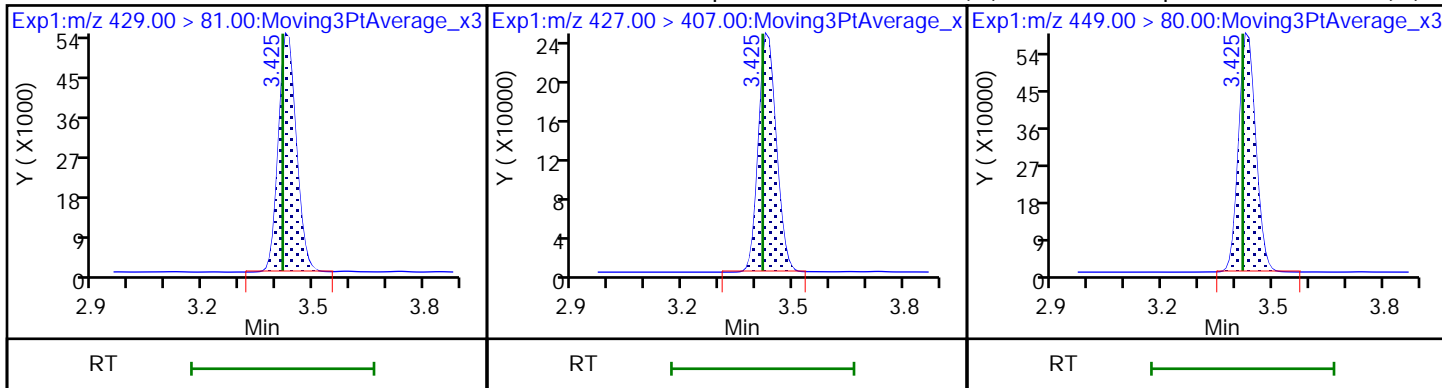
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

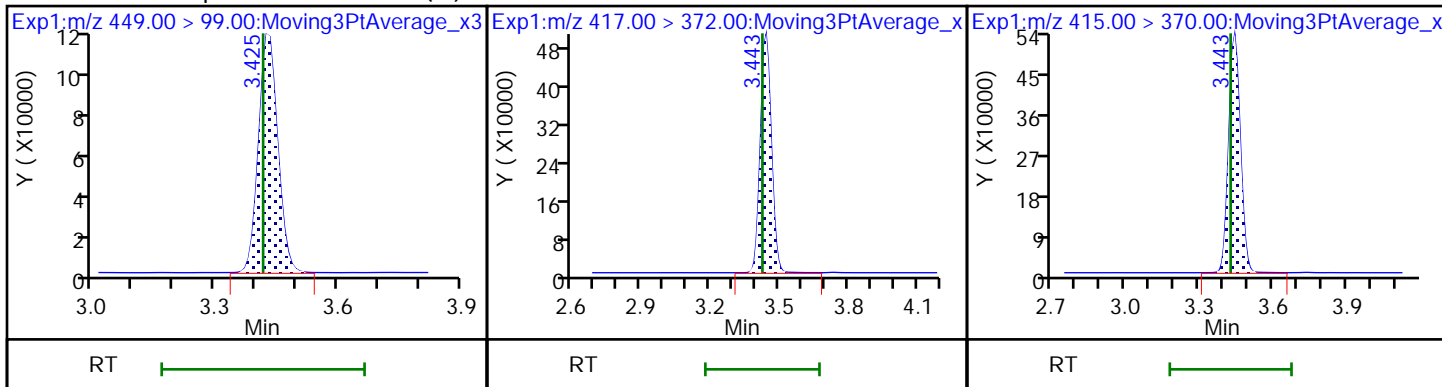
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

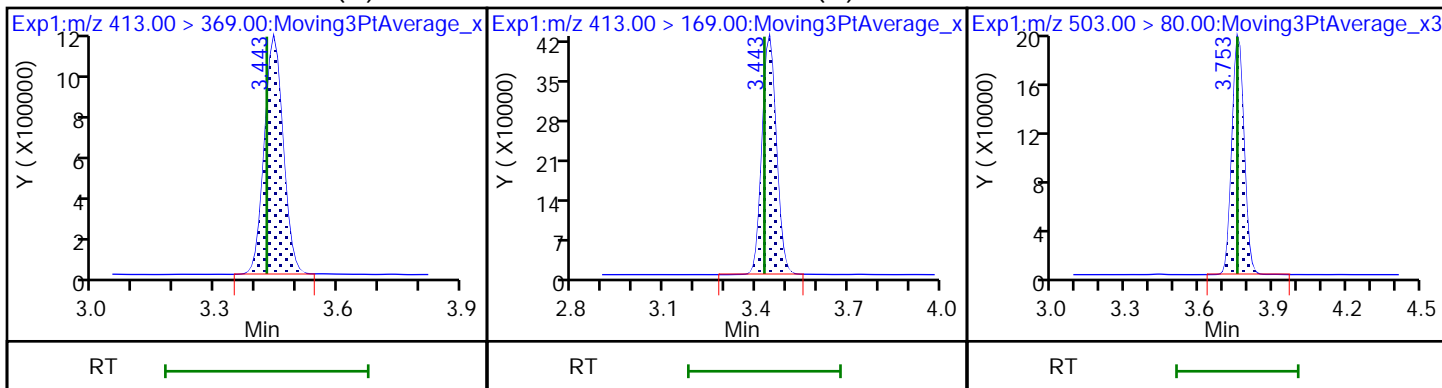
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

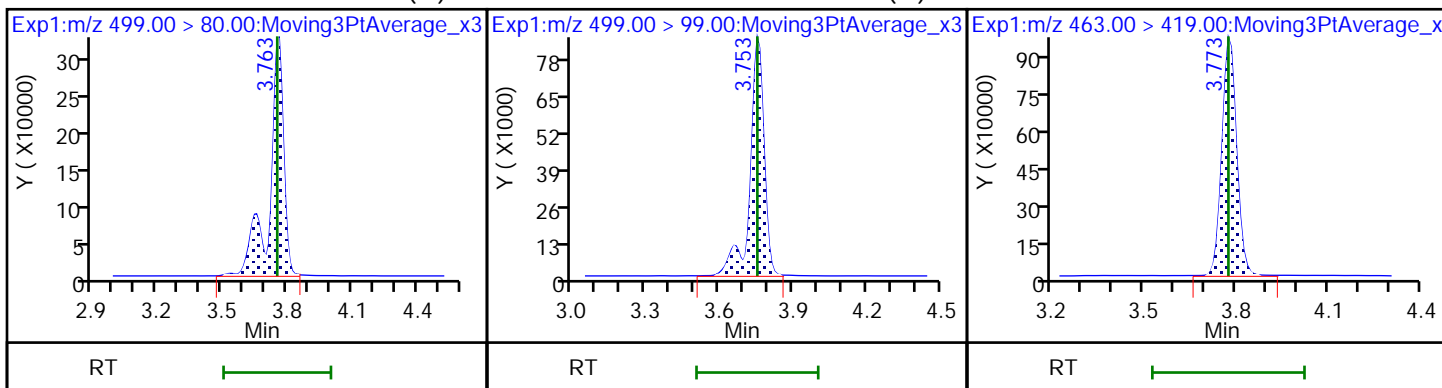
D 18 13C4 PFOS

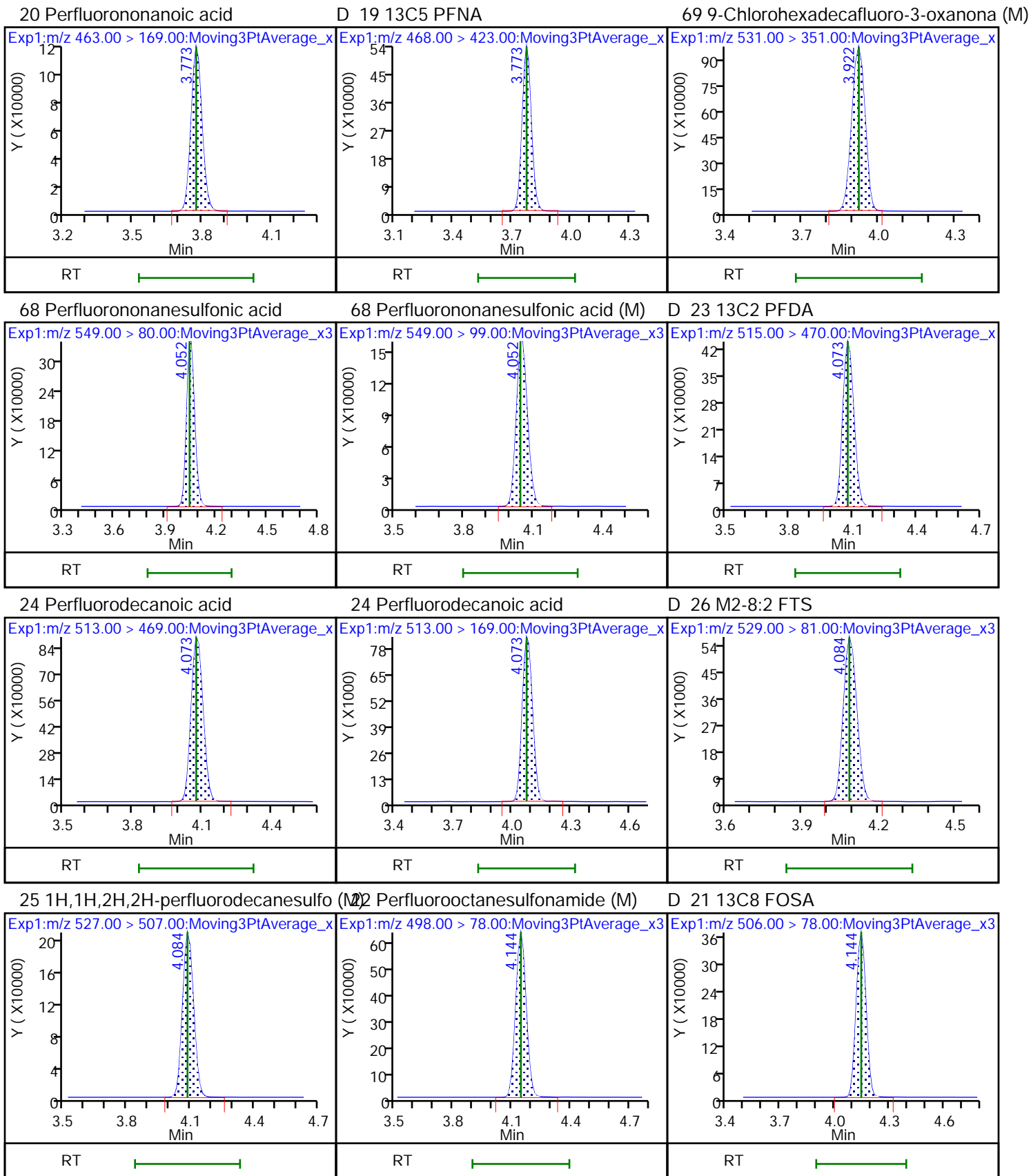


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

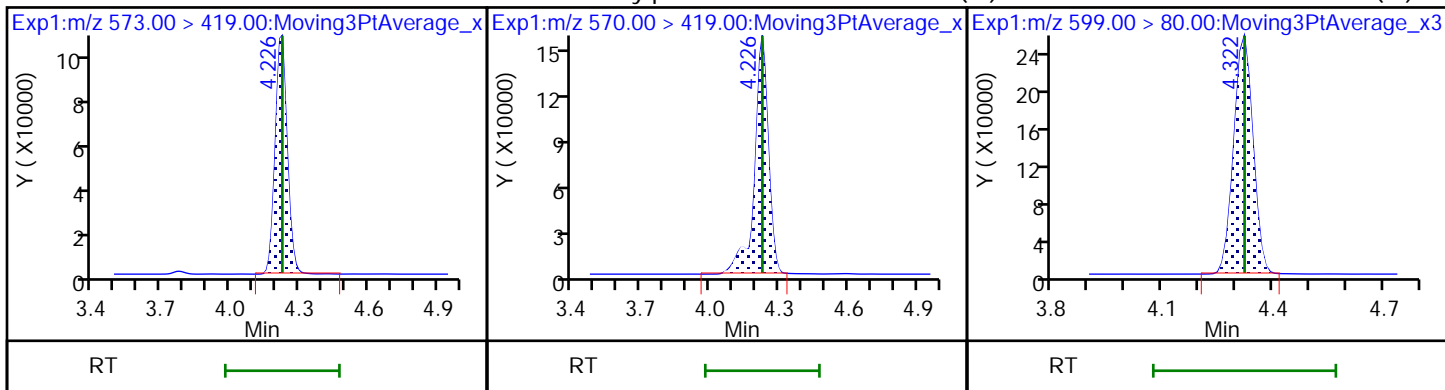
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

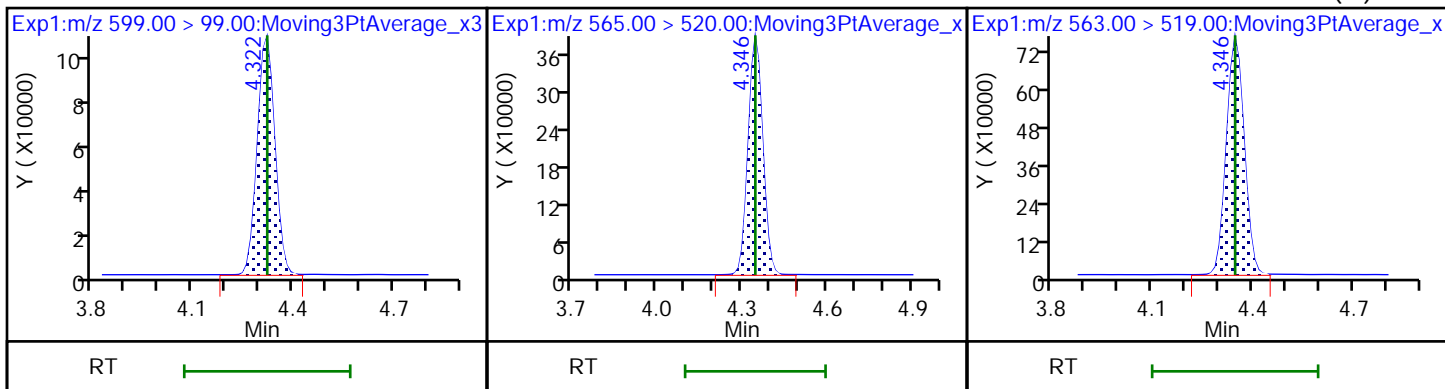
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid

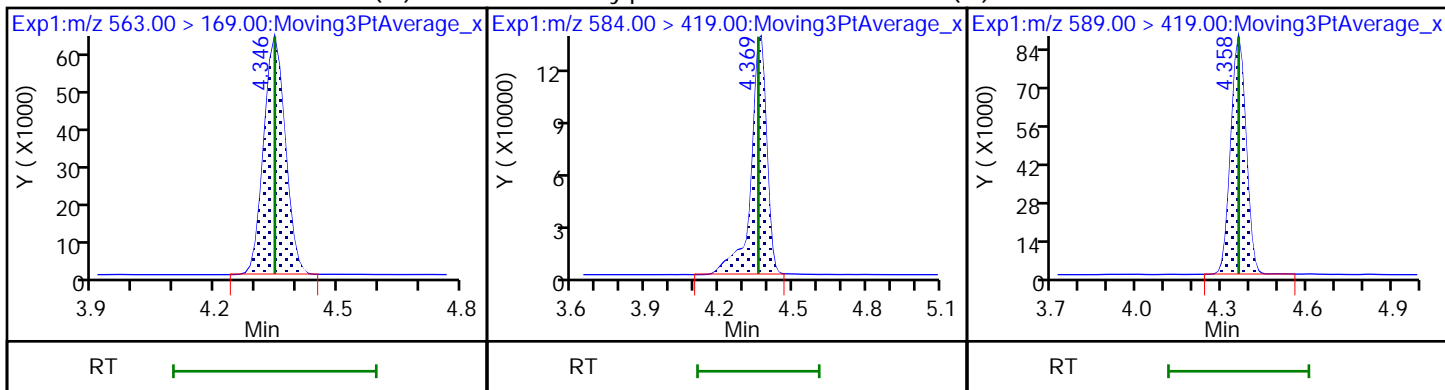
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



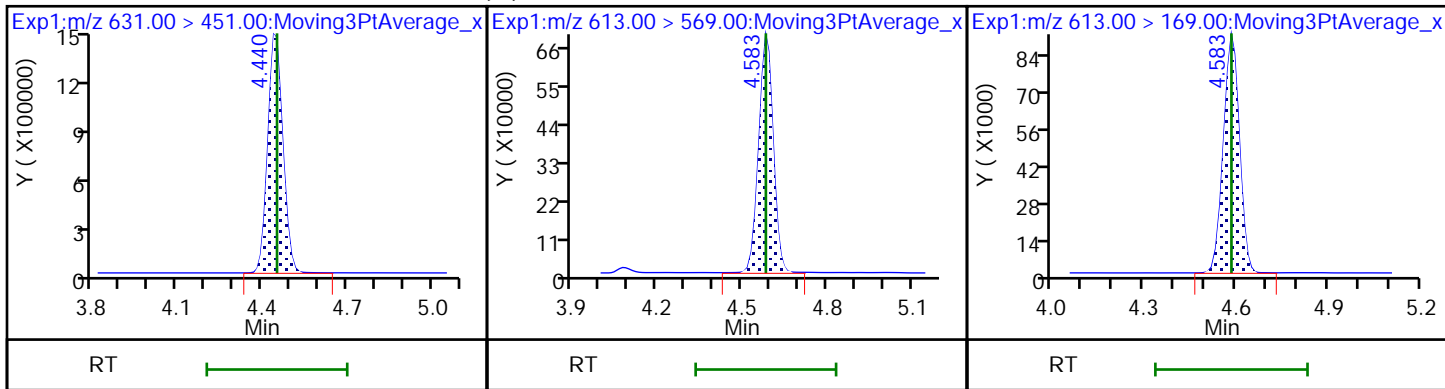
31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



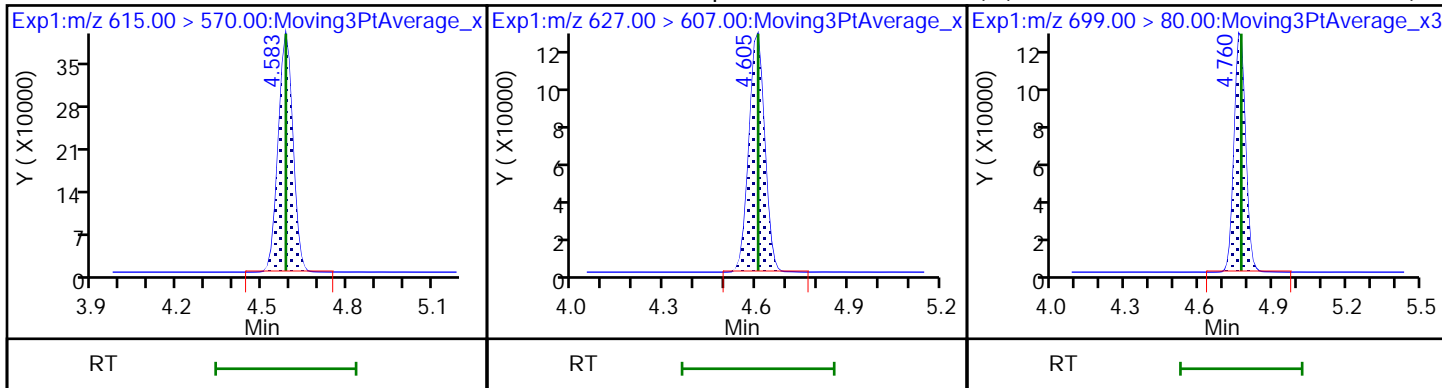
66 11-Chloroeicosafuoro-3-oxaundec (M) 37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDoA

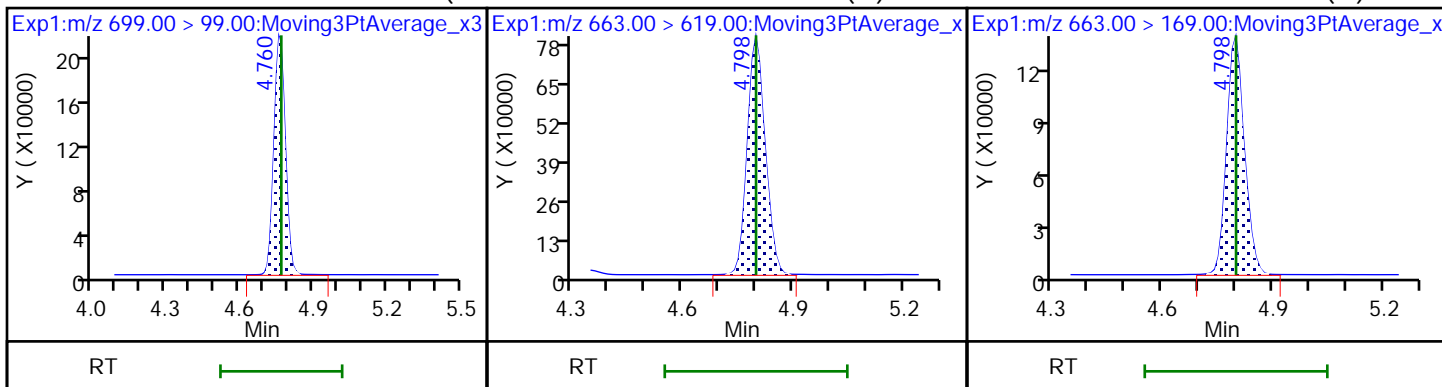
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

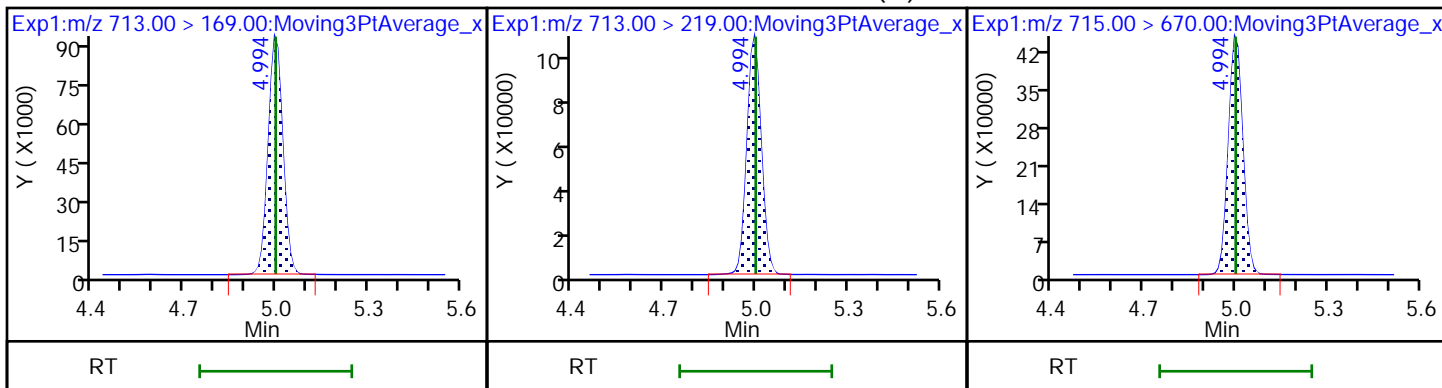
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

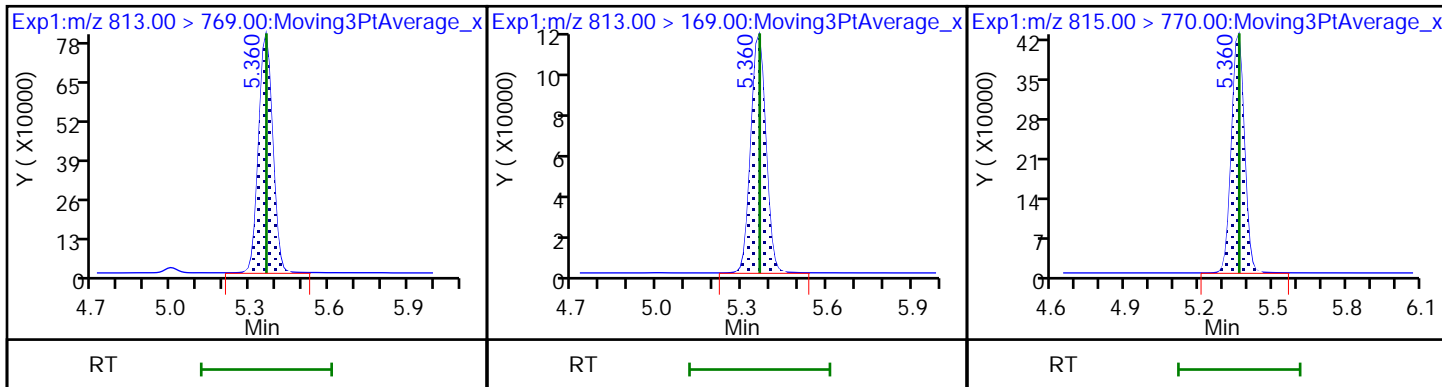
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

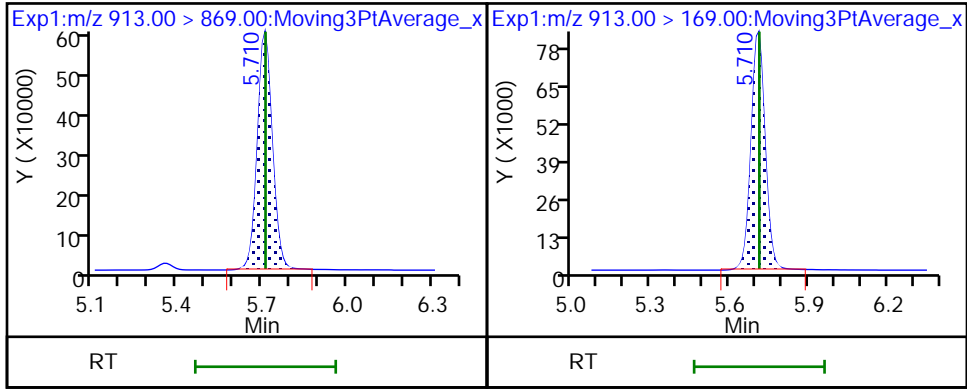
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

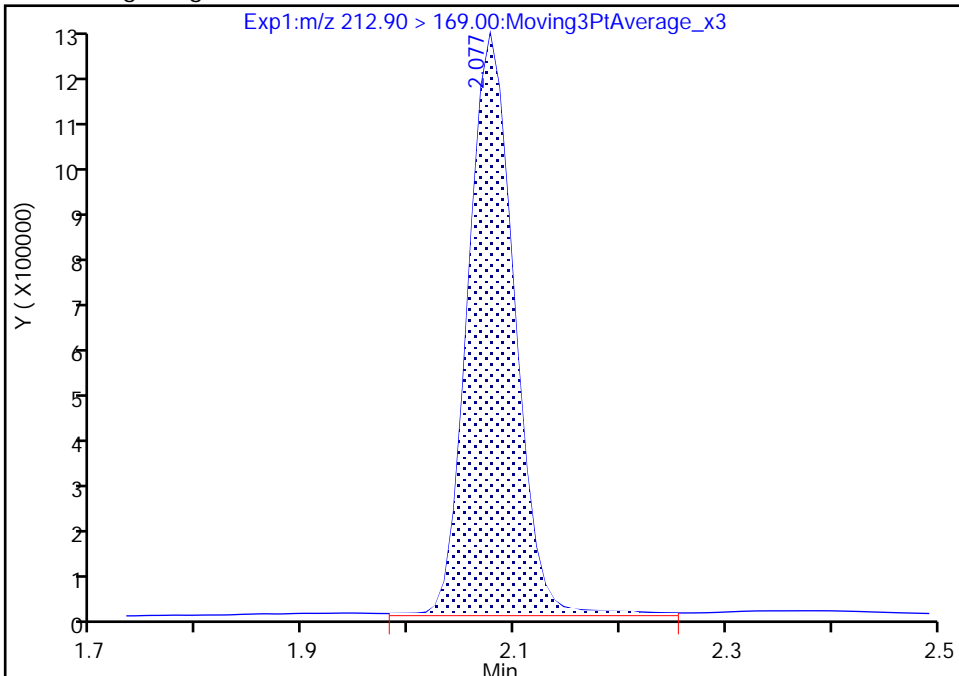
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

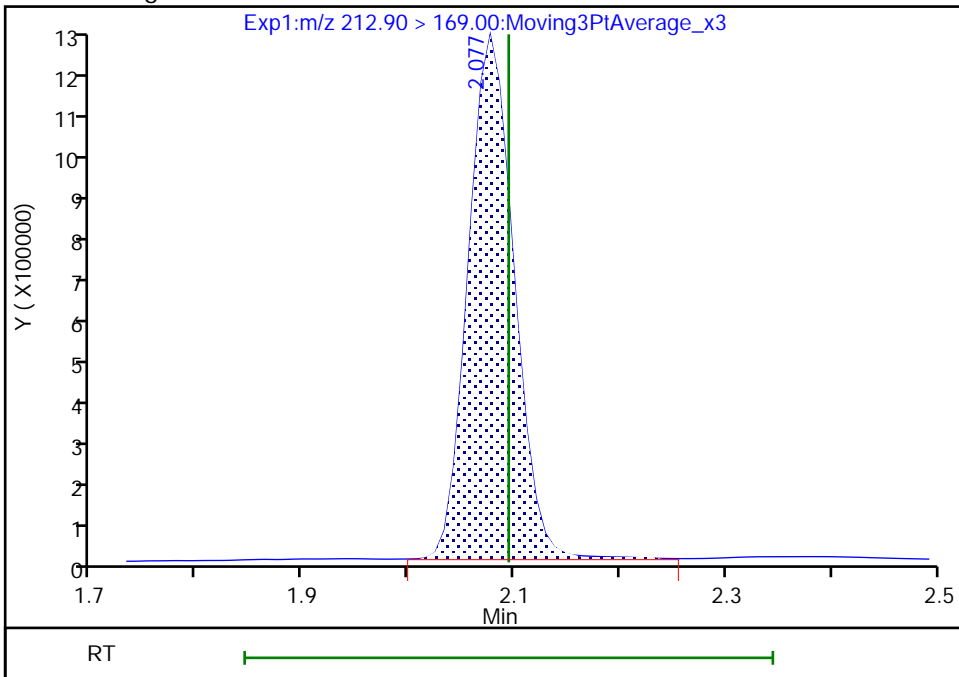
RT: 2.08
Area: 3832014
Amount: 2.335251
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 3749602
Amount: 2.284096
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 24-Jan-2023 17:48:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

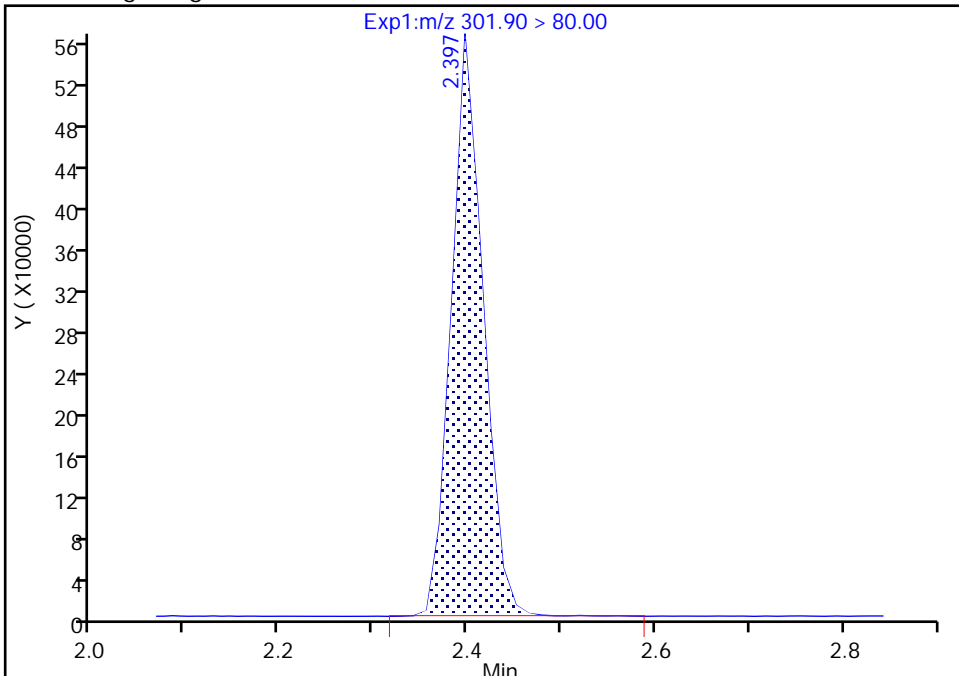
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

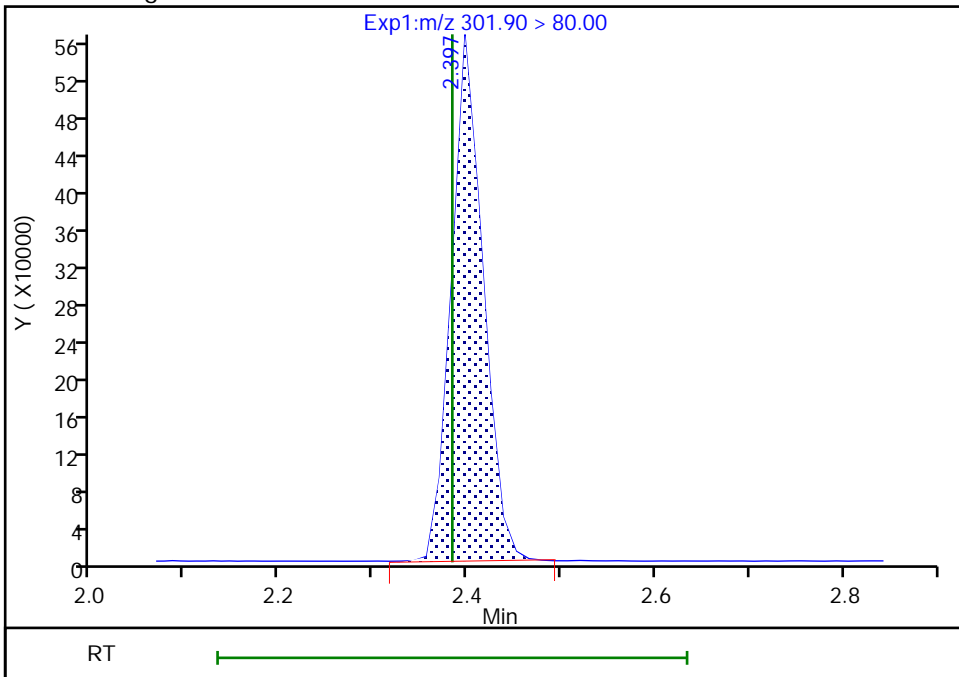
RT: 2.40
Area: 1325608
Amount: 0.907575
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1320967
Amount: 0.904397
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:30:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

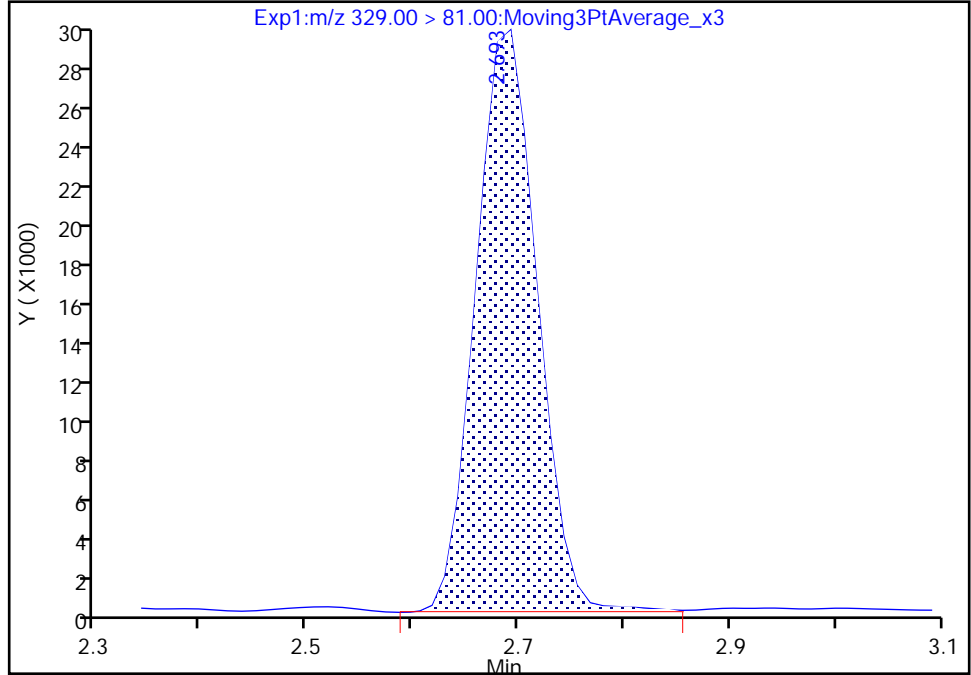
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 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 60 M2-4:2 FTS, CAS: STL02395
Signal: 1

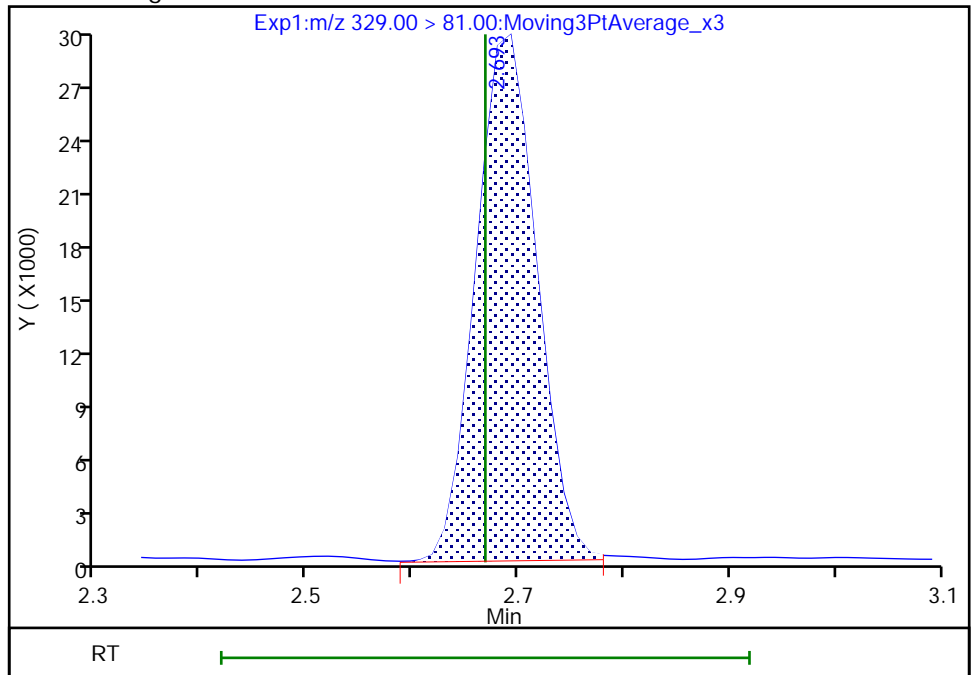
RT: 2.69
Area: 119597
Amount: 1.012717
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 119009
Amount: 1.007738
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:31:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

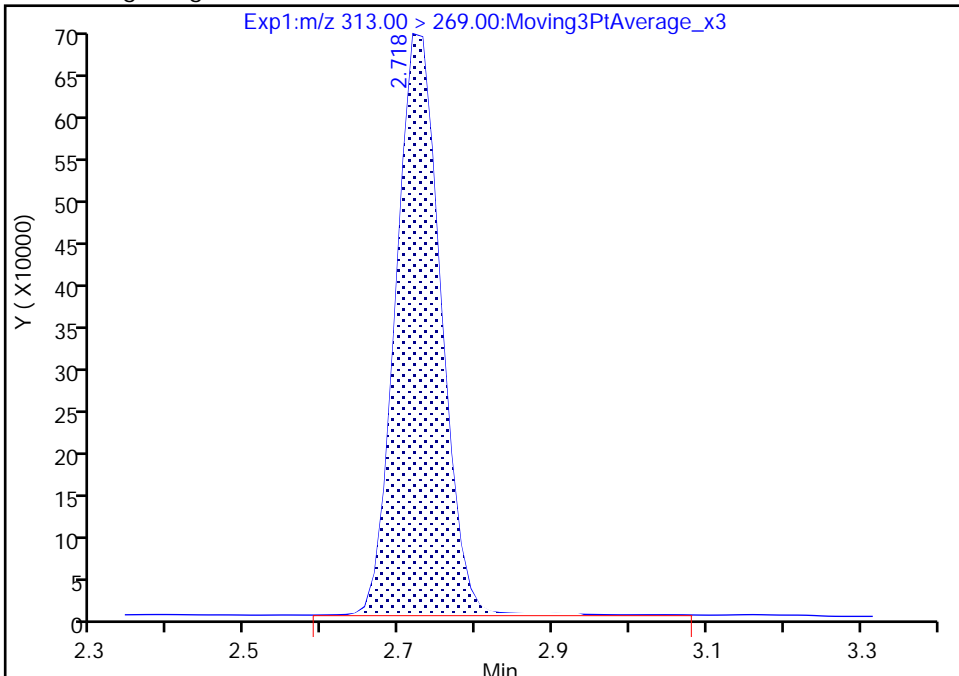
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

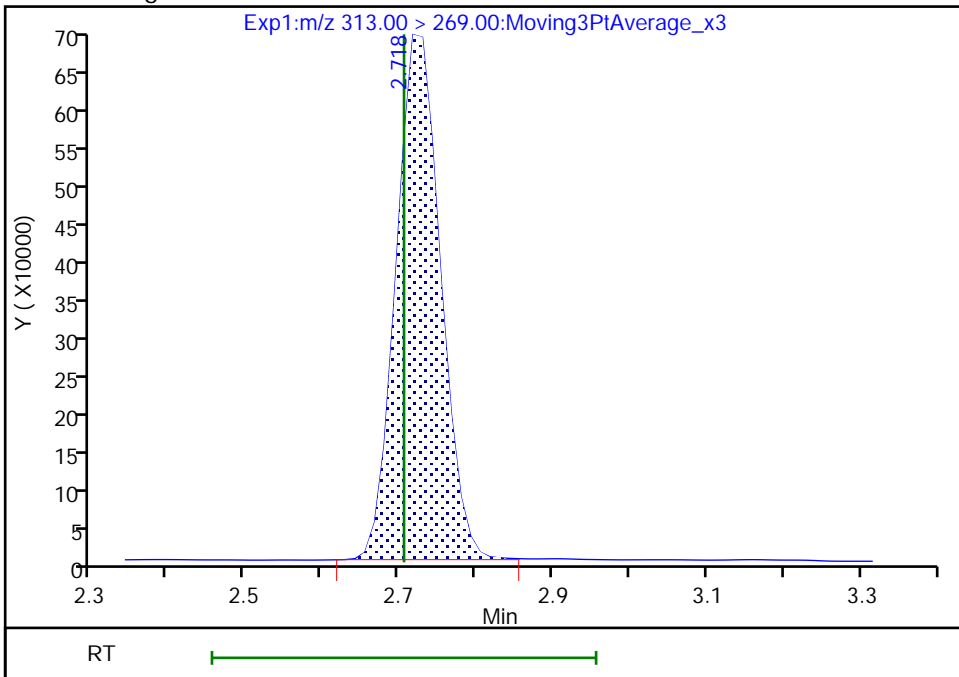
RT: 2.72
Area: 2793607
Amount: 2.112019
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 2768251
Amount: 2.092849
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

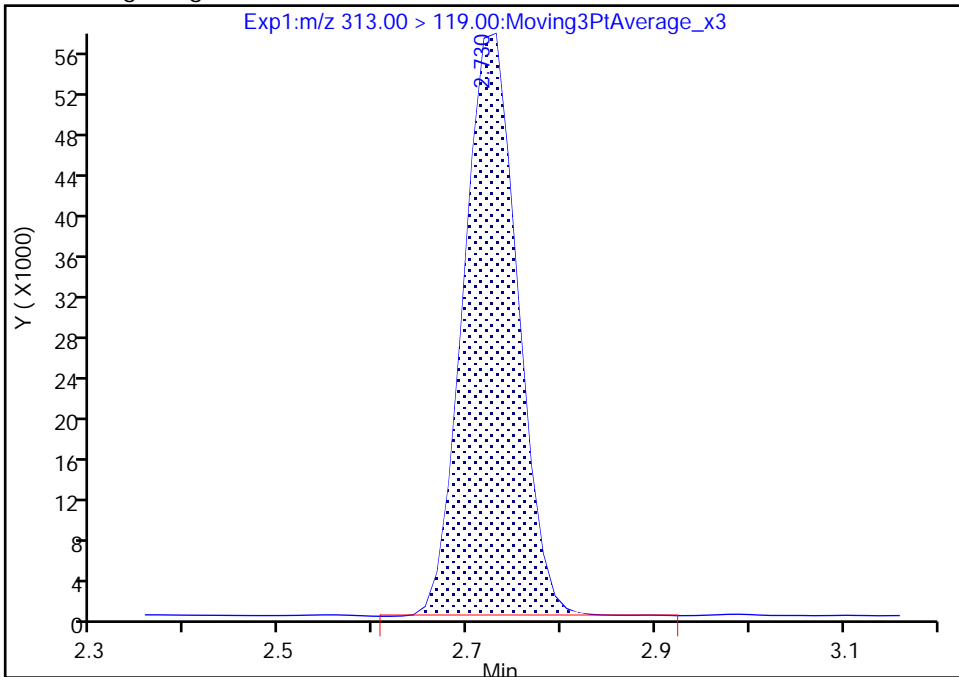
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

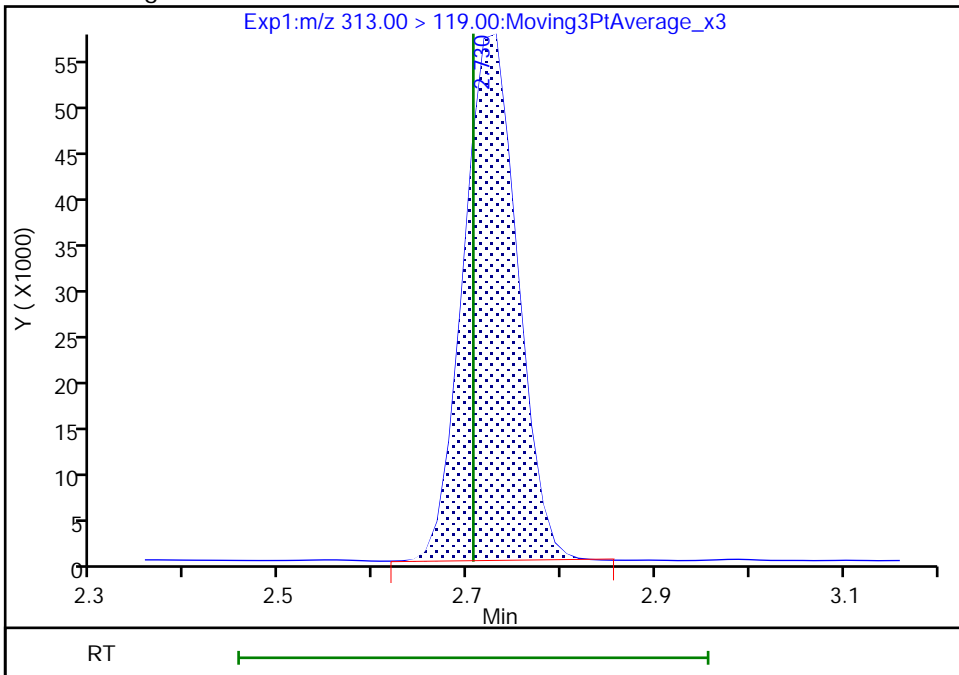
RT: 2.73
Area: 229764
Amount: 2.112019
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 229146
Amount: 2.092849
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

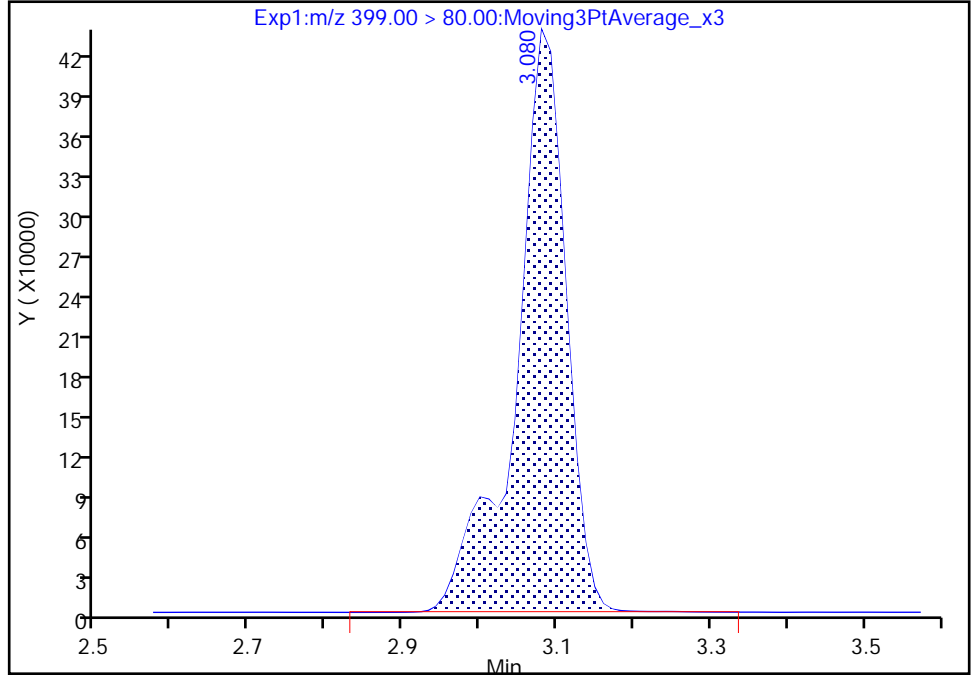
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

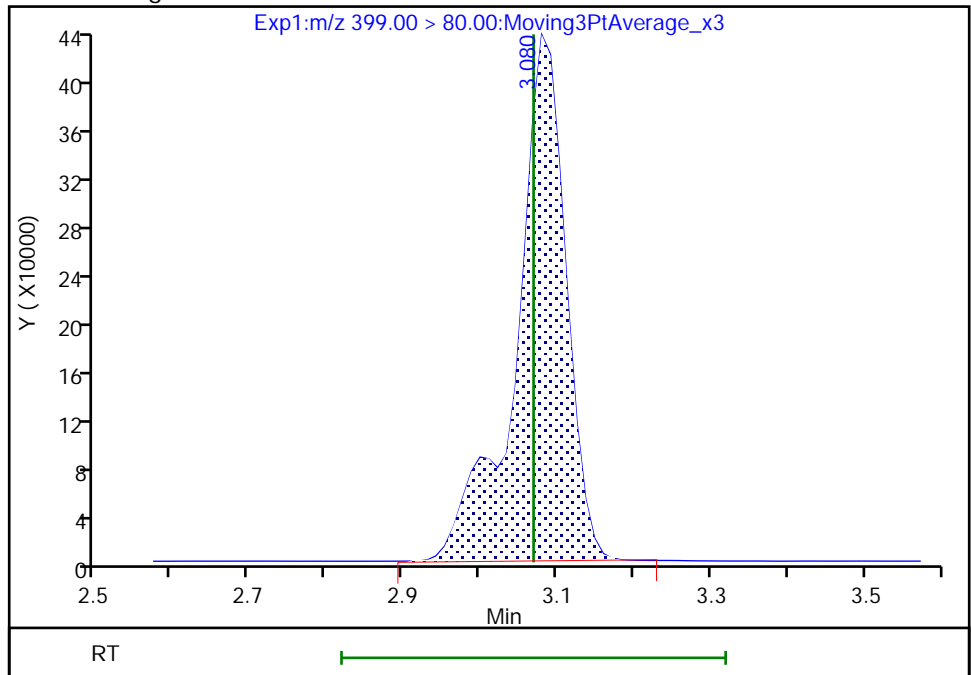
RT: 3.08
Area: 1978259
Amount: 2.193107
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 1971226
Amount: 2.185311
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

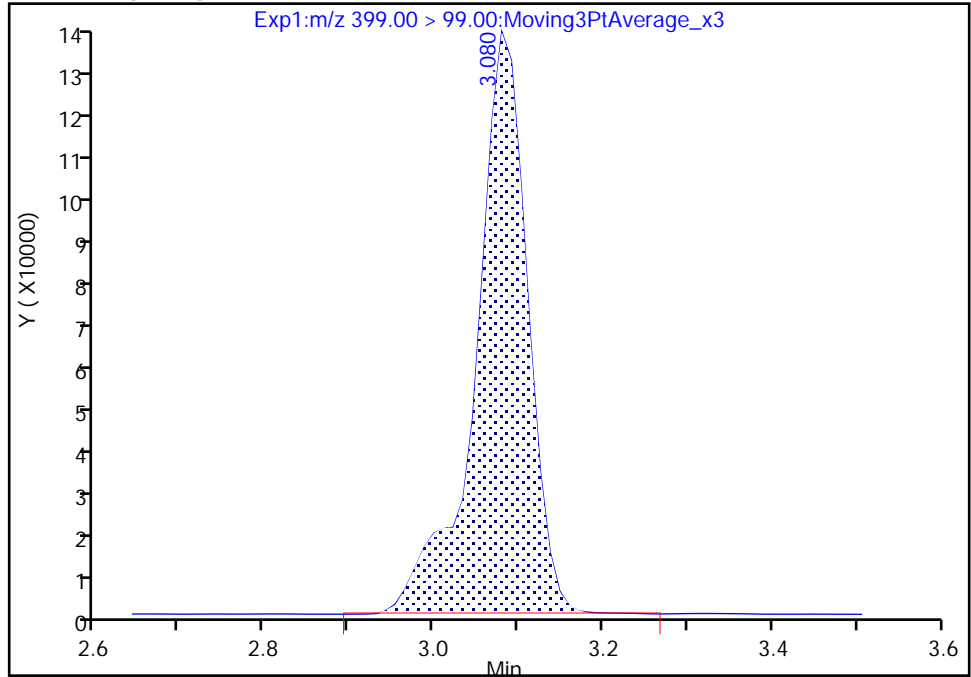
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

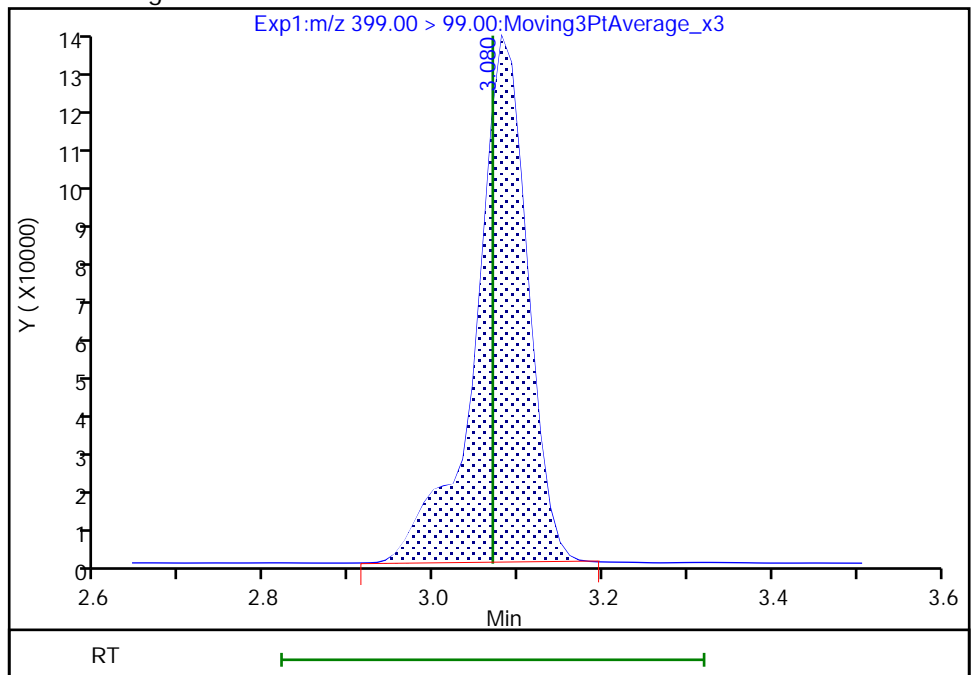
RT: 3.08
Area: 592891
Amount: 2.193107
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 589705
Amount: 2.185311
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

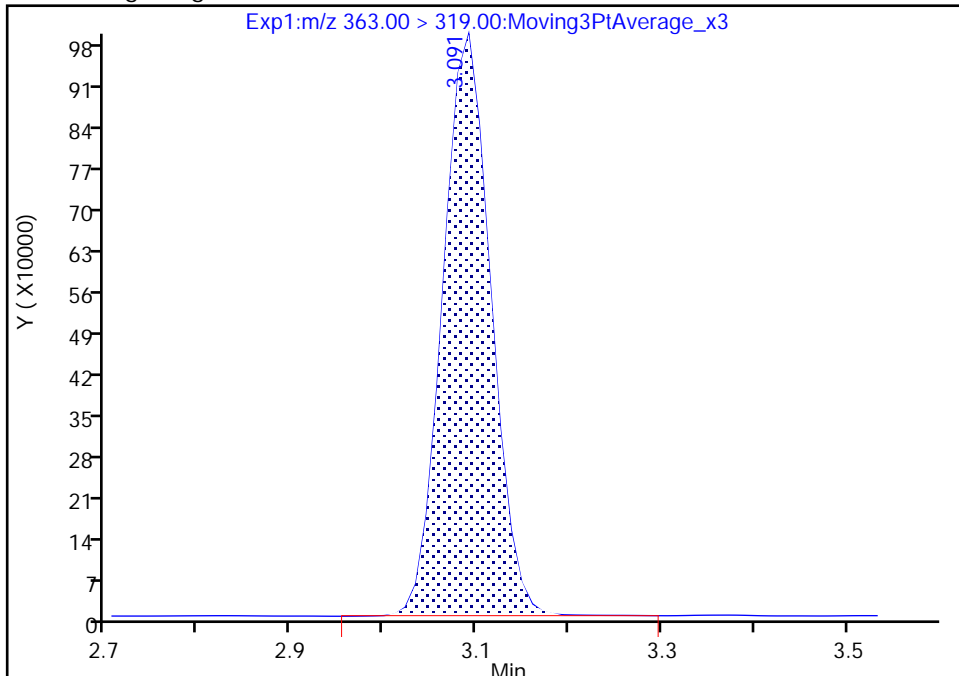
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

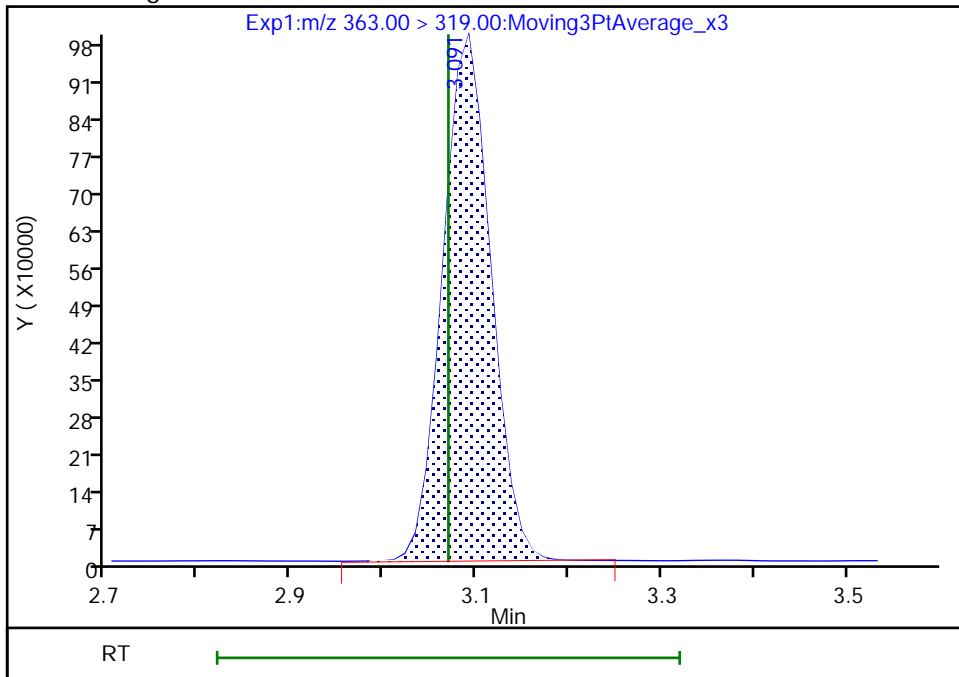
RT: 3.09
Area: 3605007
Amount: 2.655486
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3589135
Amount: 2.643795
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

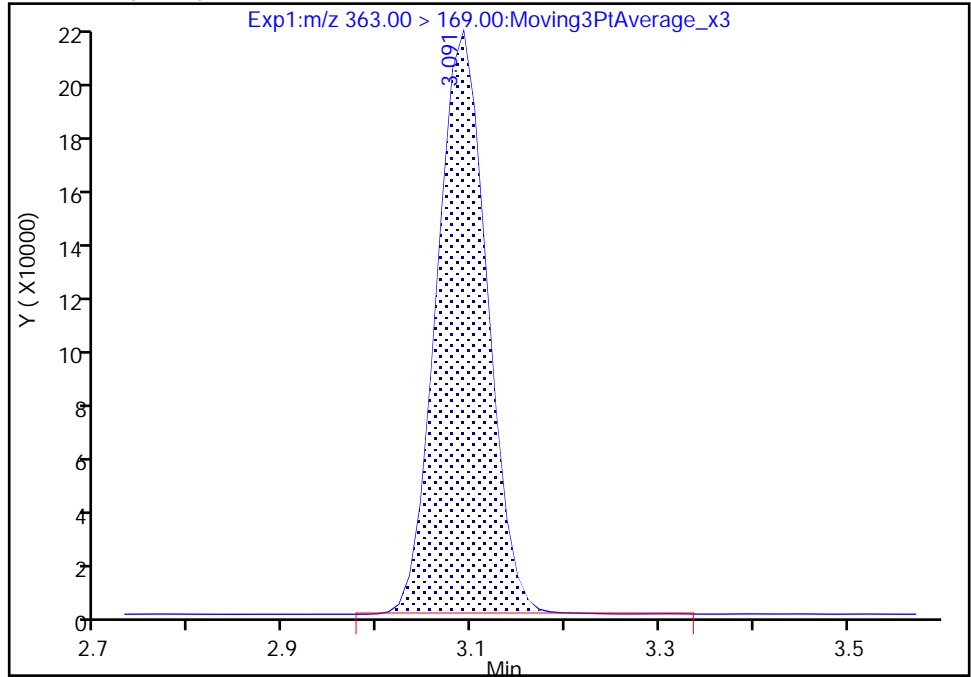
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

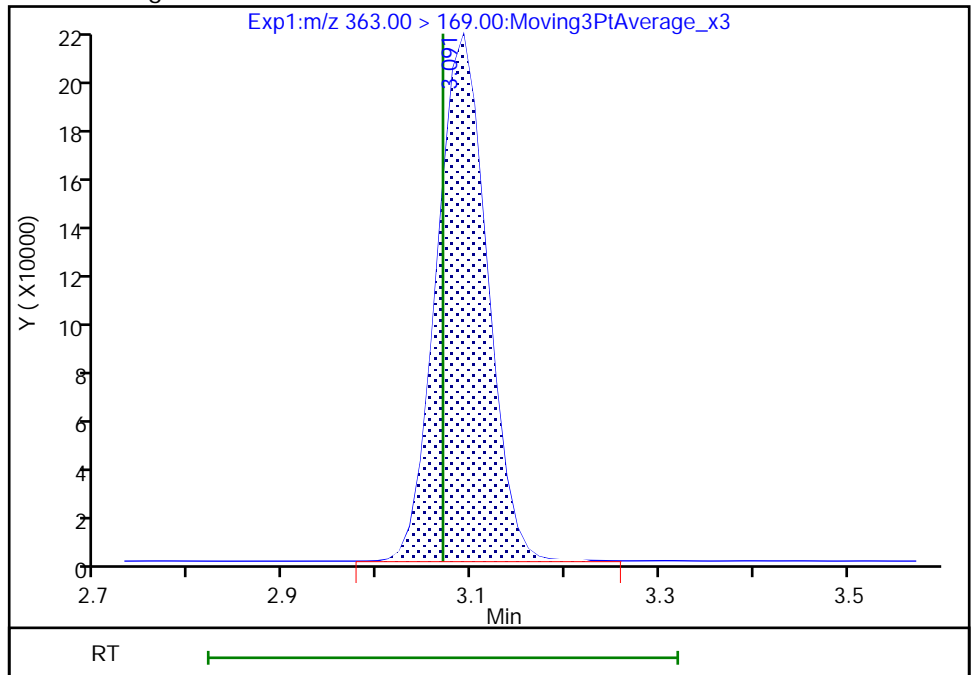
RT: 3.09
Area: 800831
Amount: 2.655486
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 800088
Amount: 2.643795
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

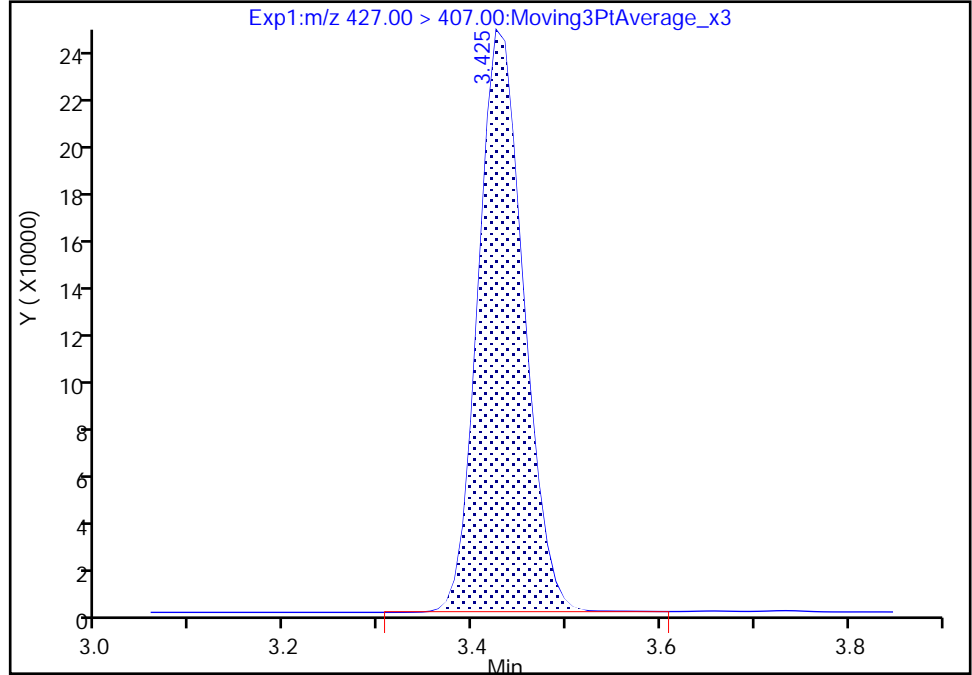
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

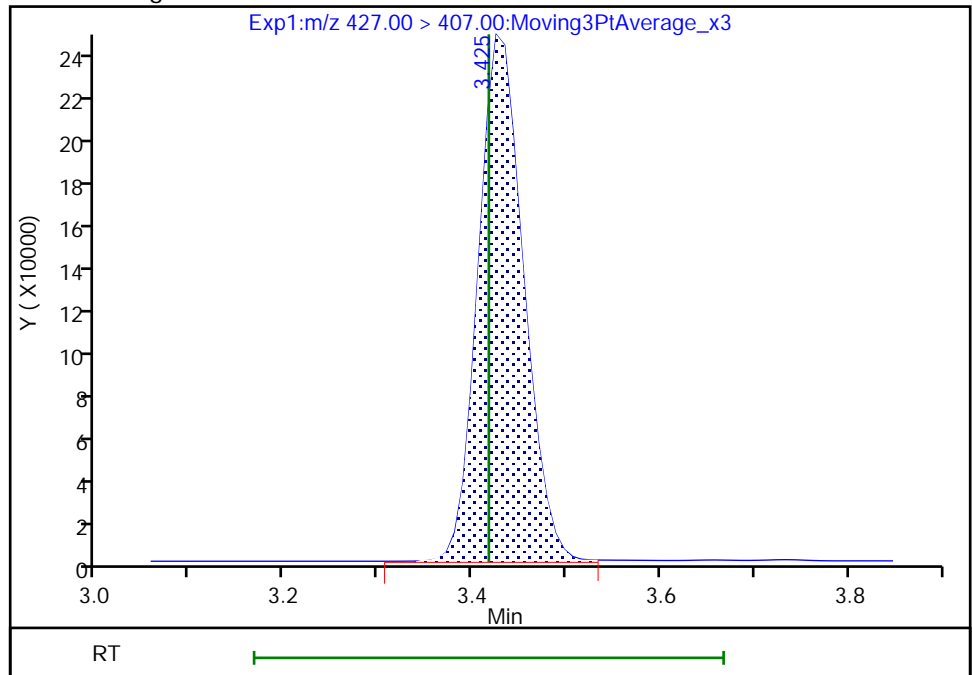
RT: 3.43
Area: 825388
Amount: 2.339691
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 823813
Amount: 2.335227
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

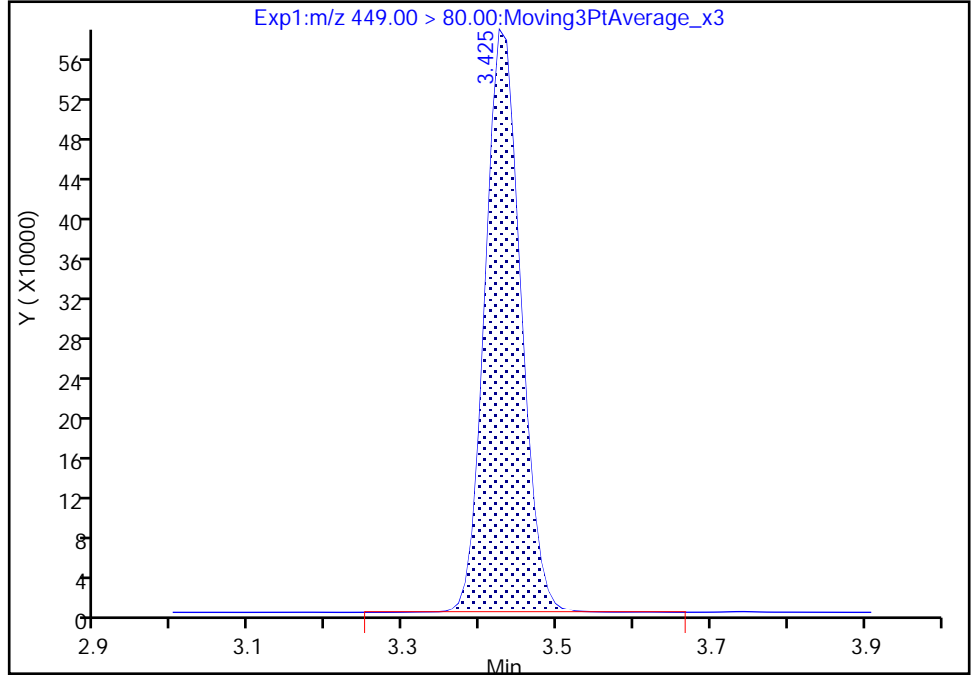
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

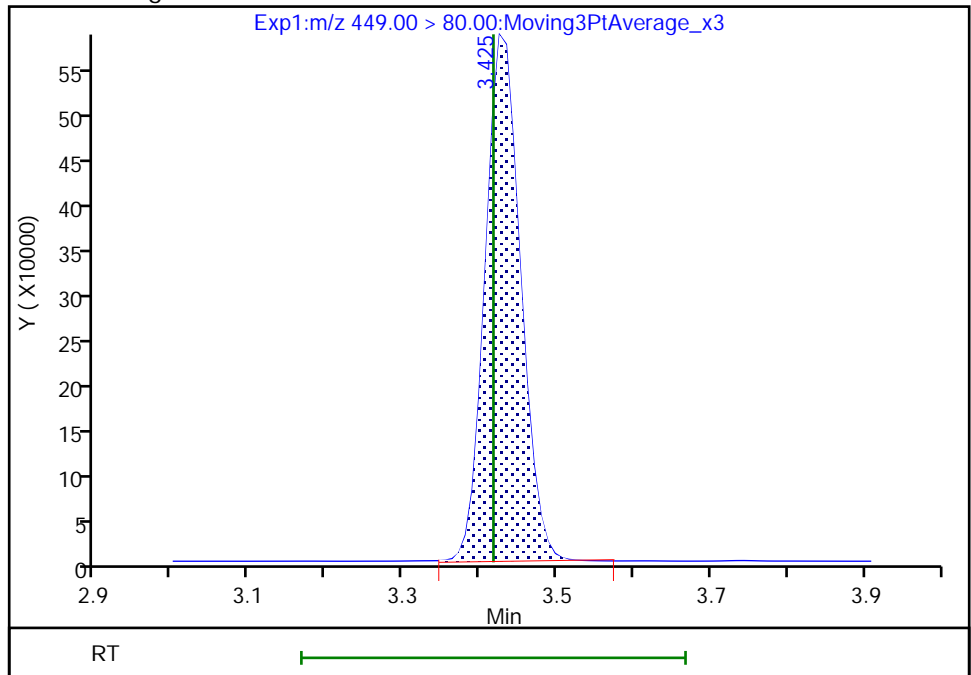
RT: 3.43
Area: 1896745
Amount: 2.311443
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1892105
Amount: 2.305788
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

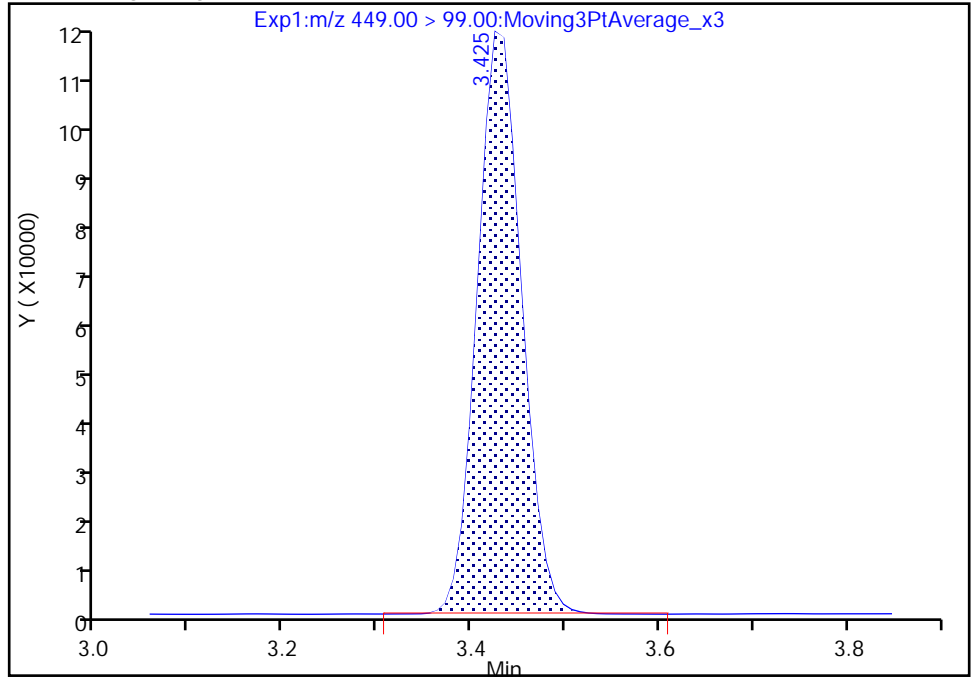
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

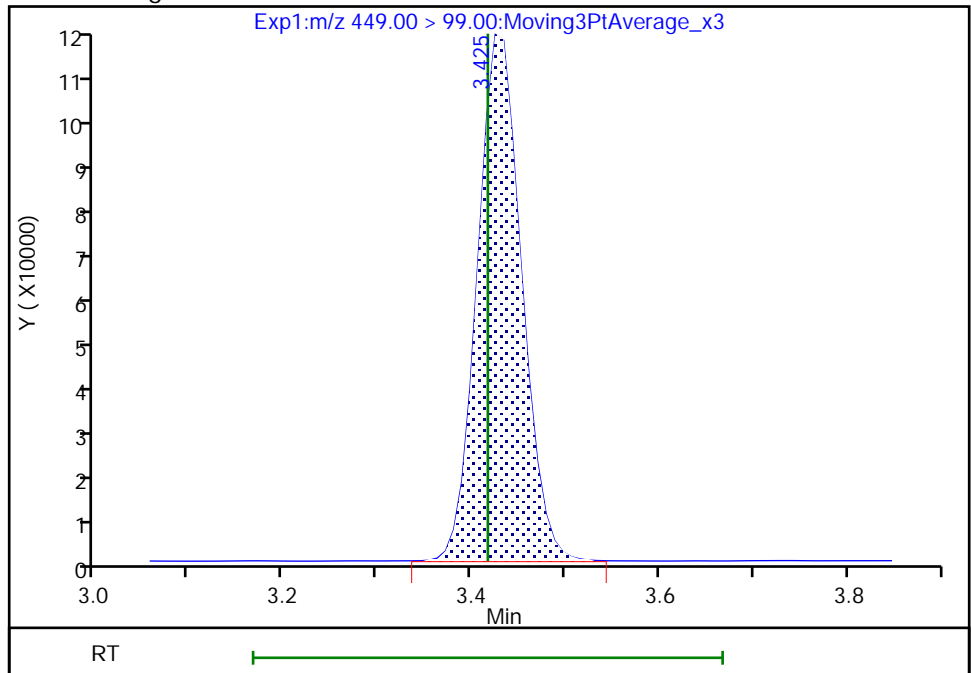
RT: 3.43
Area: 381324
Amount: 2.311443
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 380602
Amount: 2.305788
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:33:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

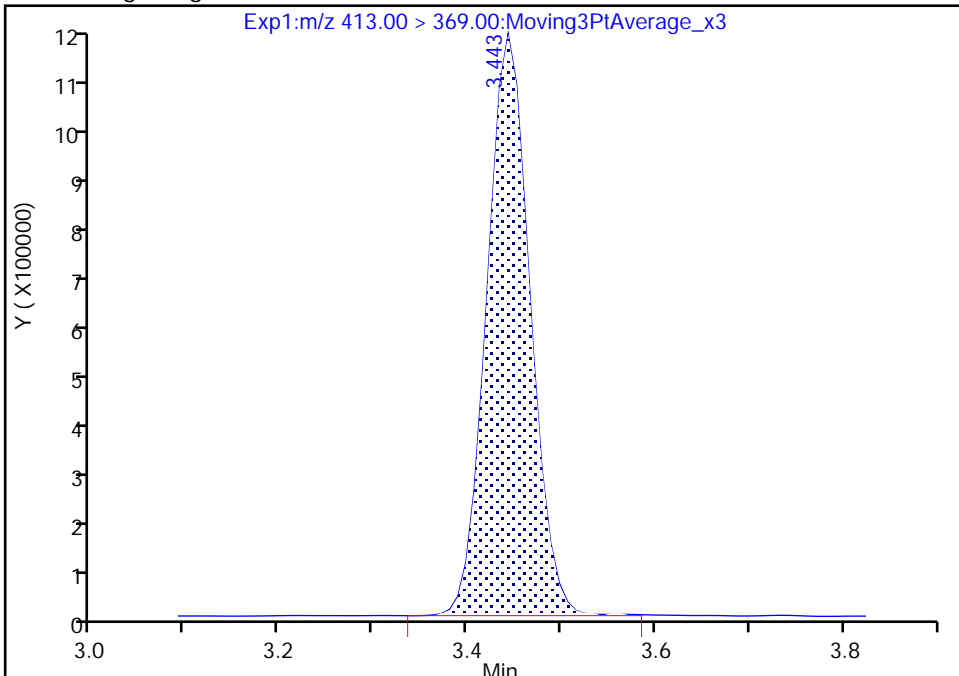
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

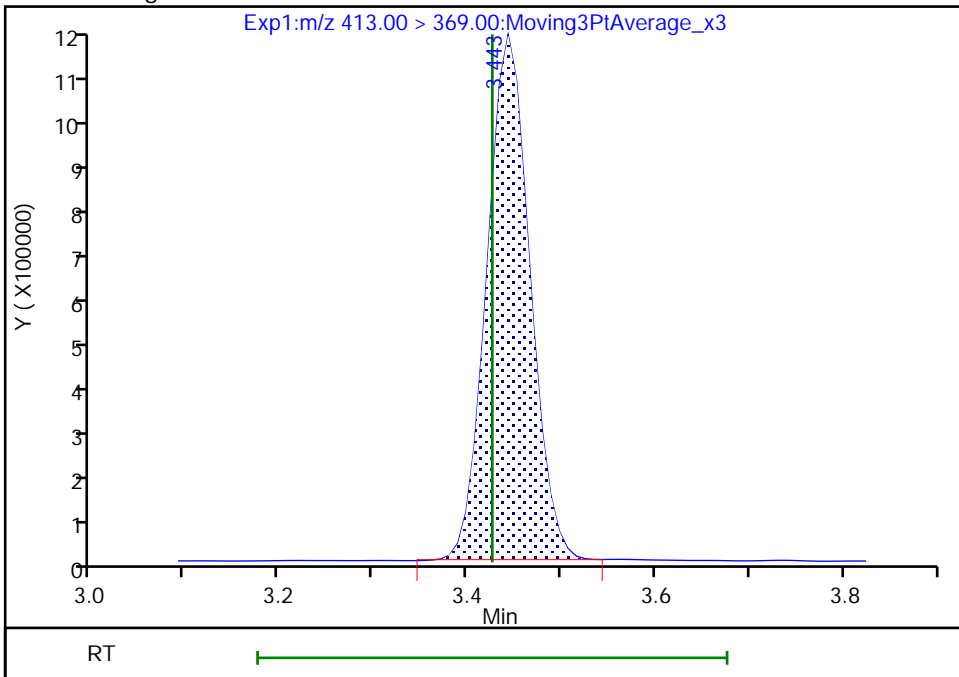
RT: 3.44
Area: 3715148
Amount: 2.512719
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 3707898
Amount: 2.507815
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:34:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

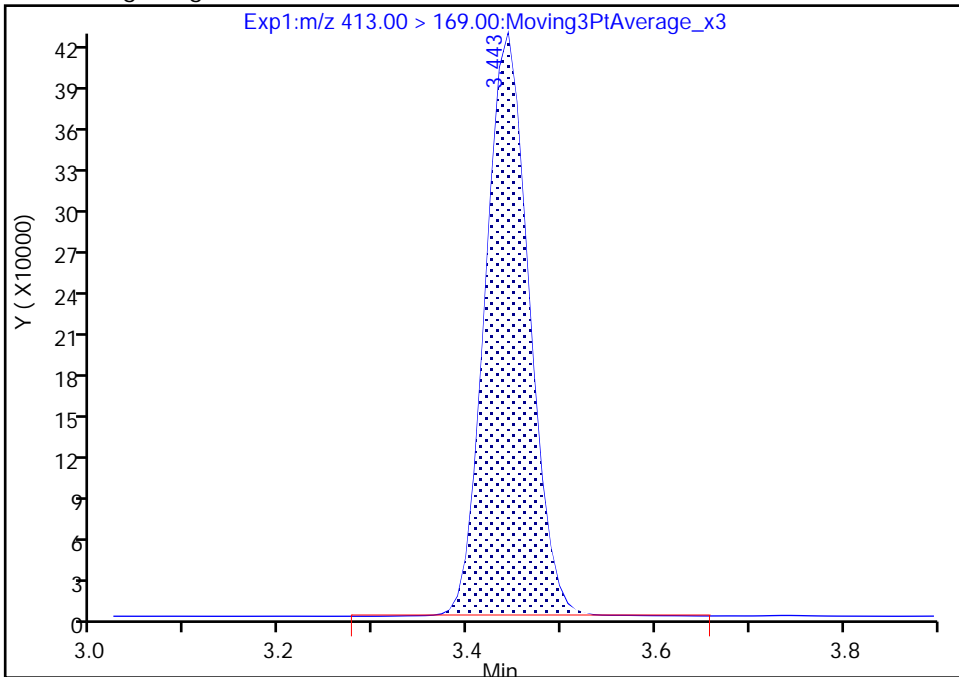
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

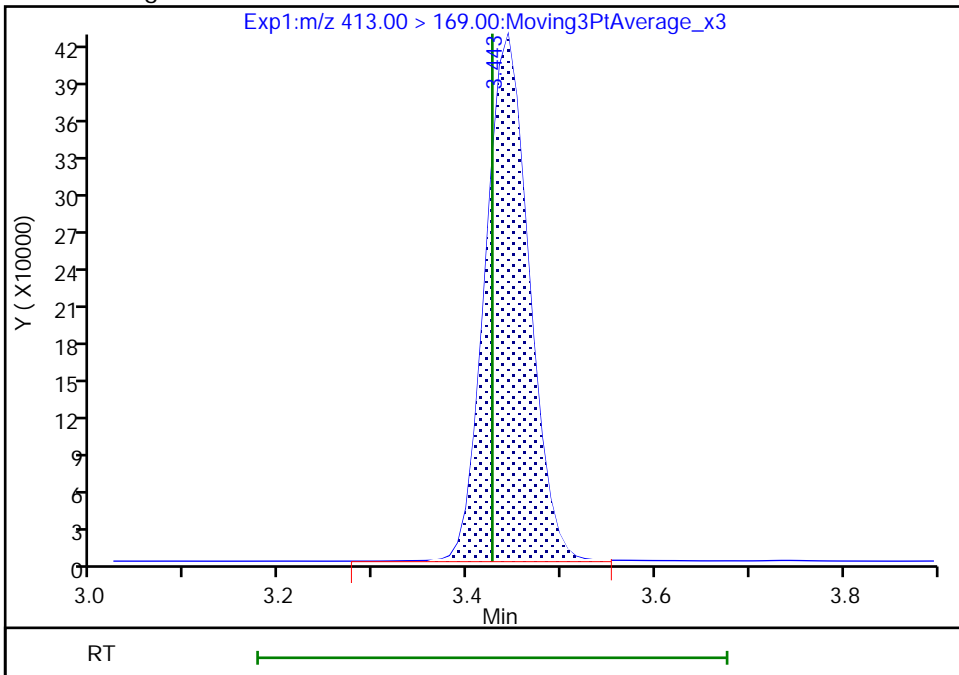
RT: 3.44
Area: 1365623
Amount: 2.512719
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1363871
Amount: 2.507815
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:34:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

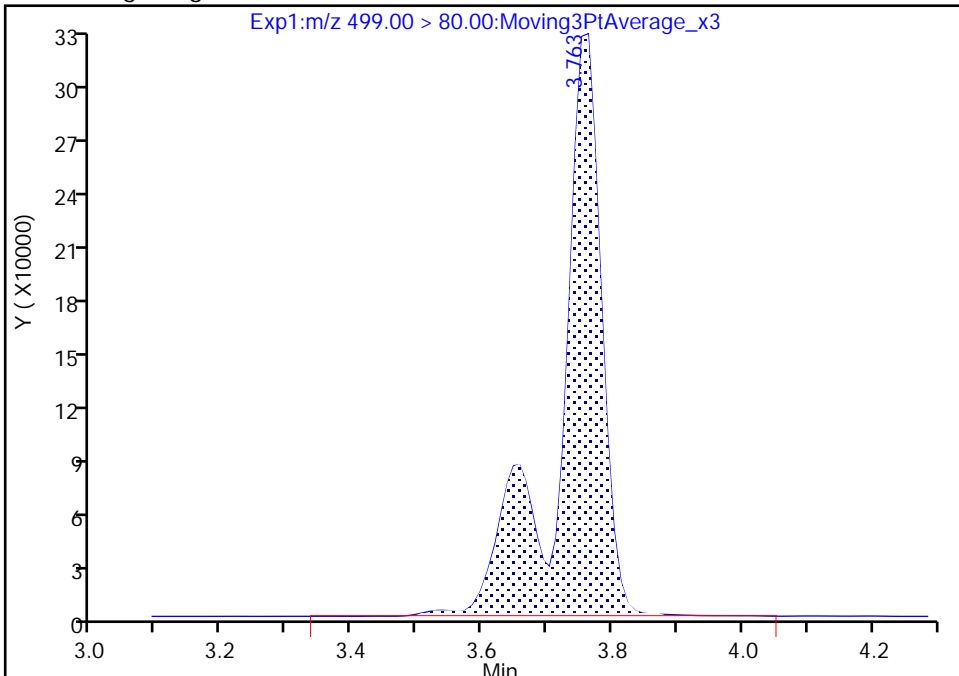
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

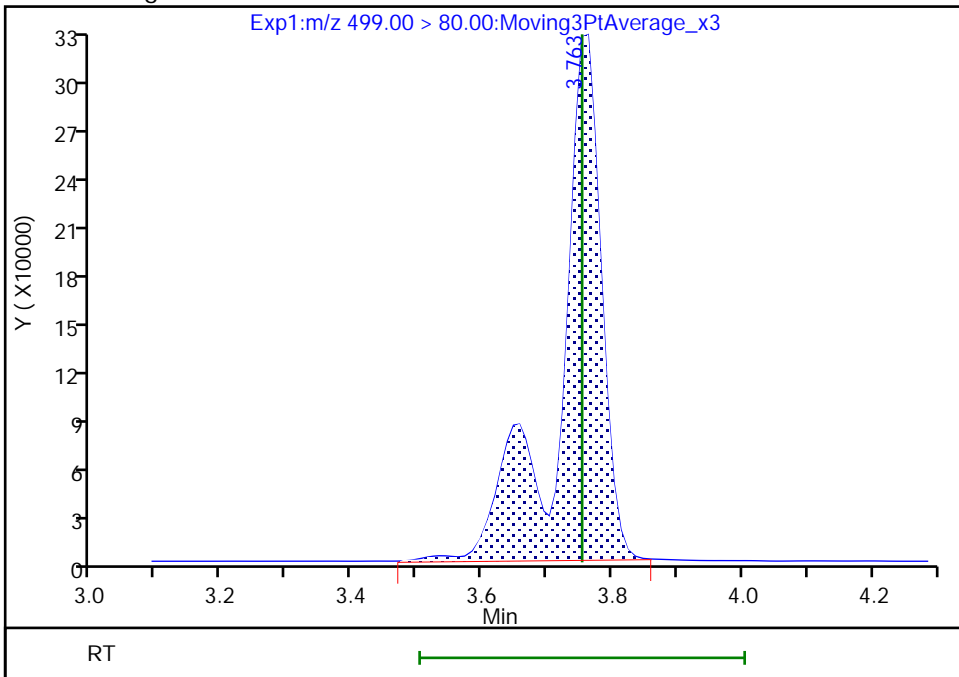
RT: 3.76
Area: 1476629
Amount: 2.155410
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1465703
Amount: 2.139461
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:34:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

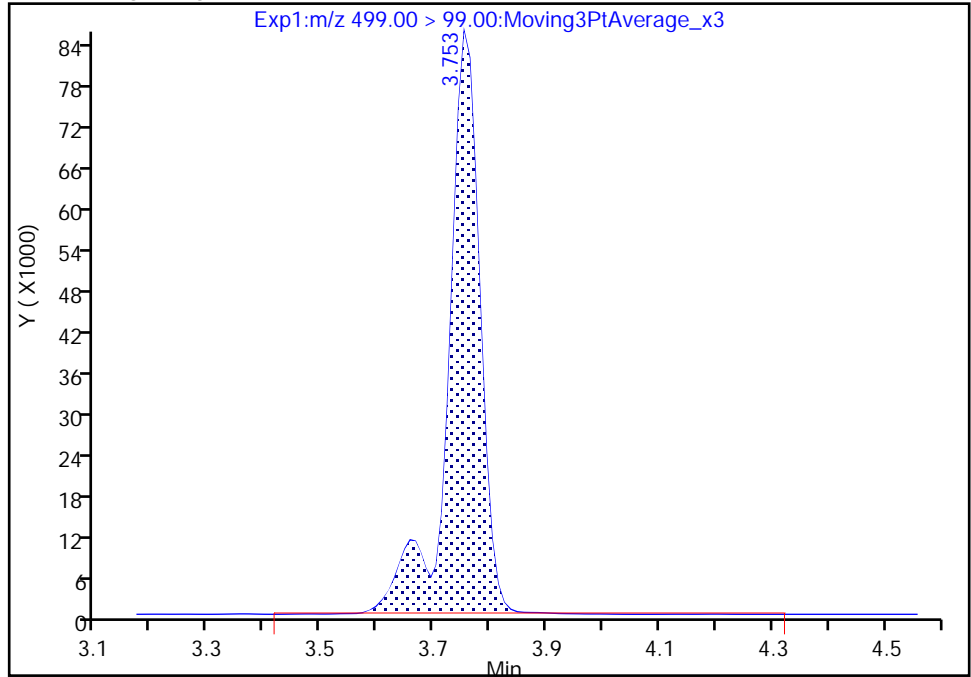
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

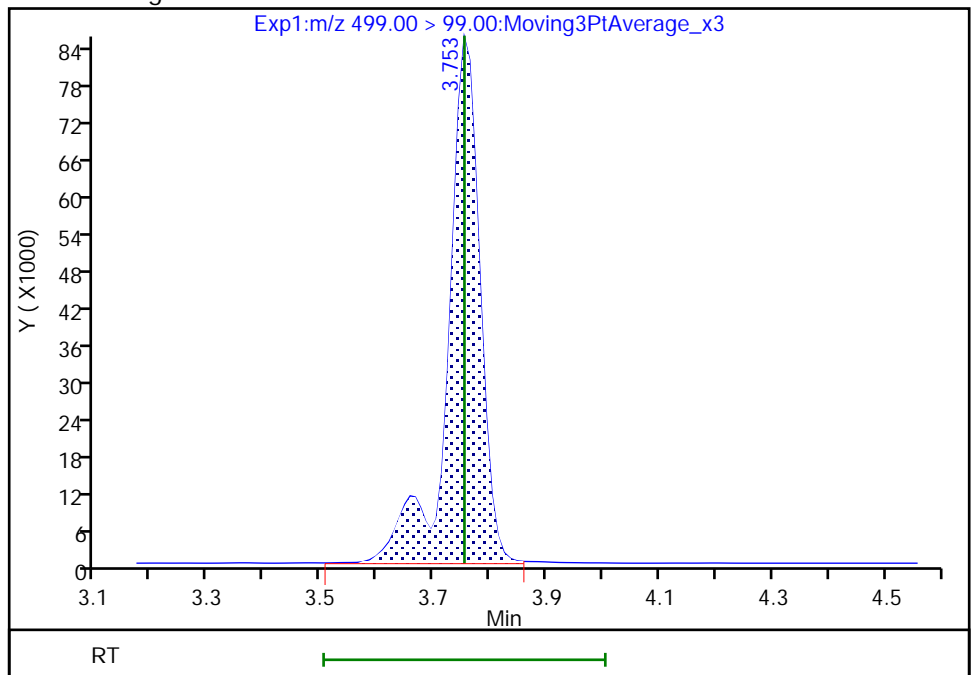
RT: 3.75
Area: 341002
Amount: 2.155410
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 338433
Amount: 2.139461
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:34:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

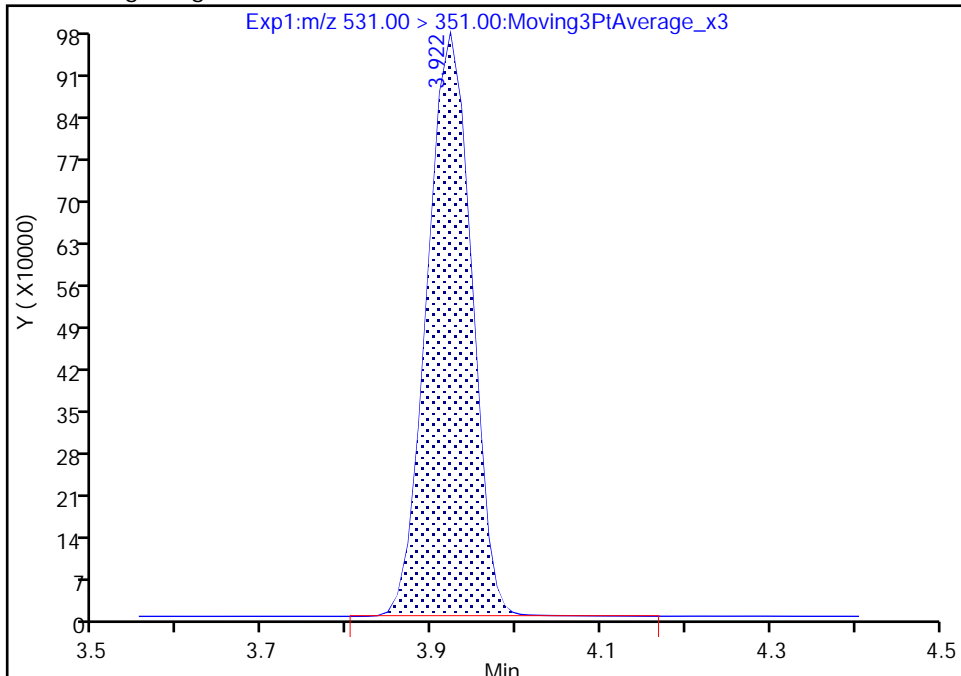
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

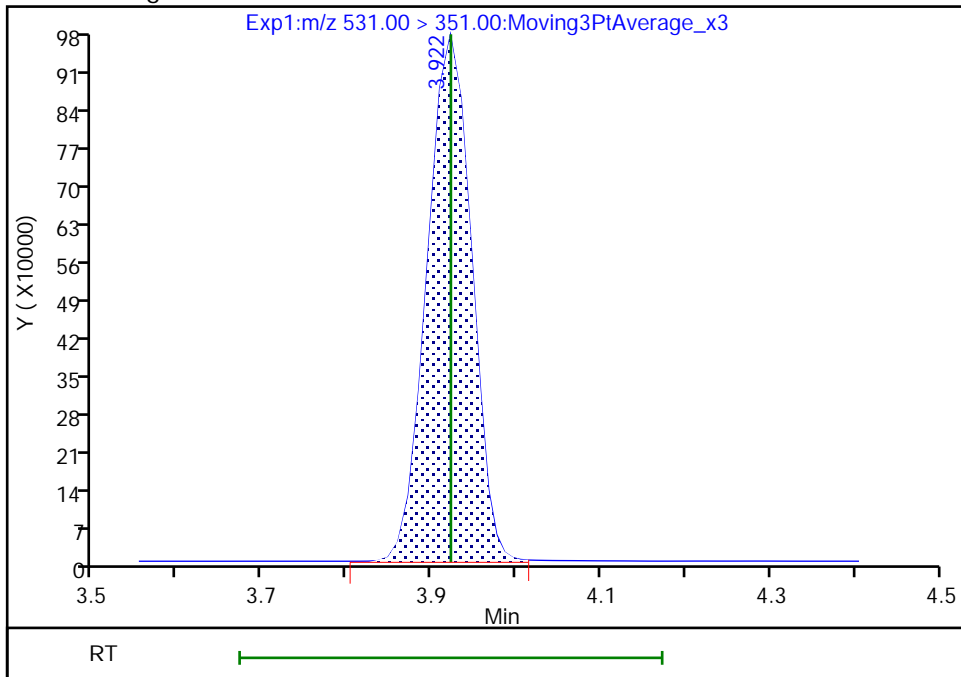
RT: 3.92
Area: 3560955
Amount: 2.177486
Amount Units: ng/ml

Processing Integration Results



RT: 3.92
Area: 3553843
Amount: 2.173137
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:34:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

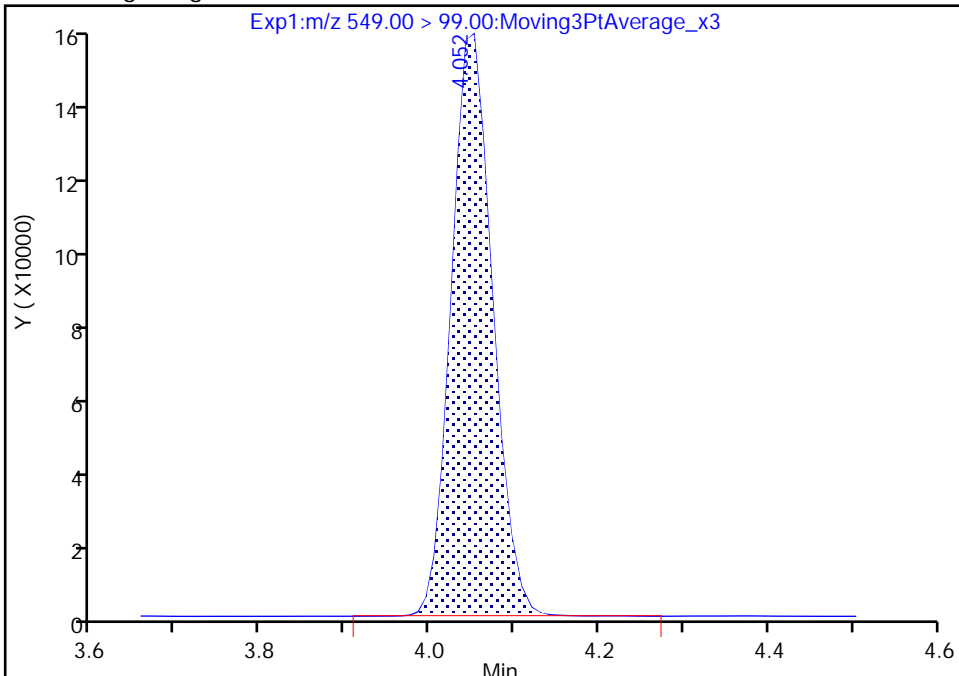
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

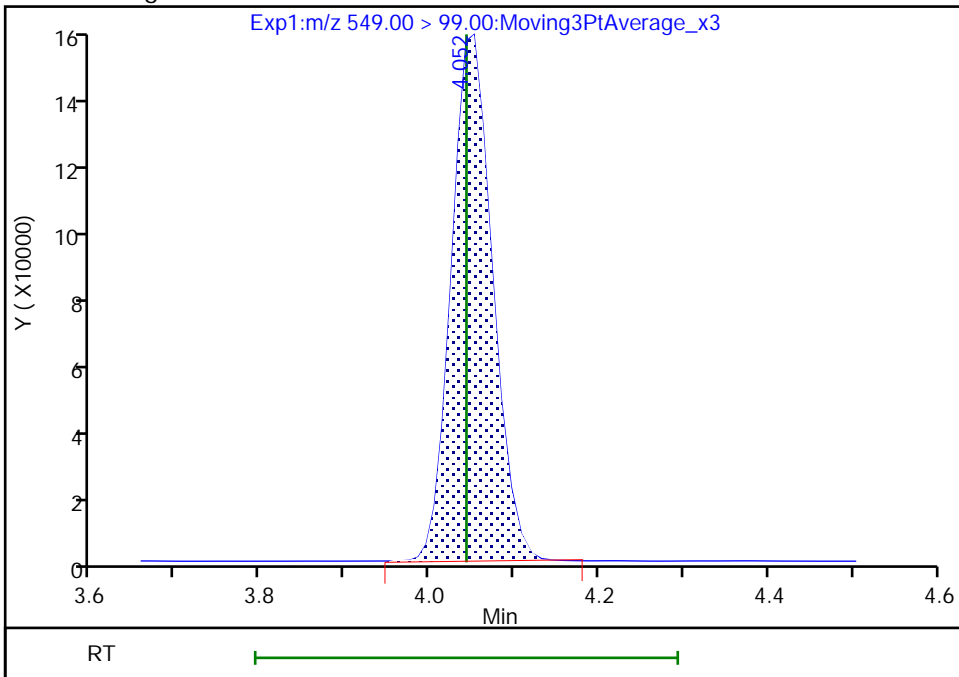
RT: 4.05
Area: 511686
Amount: 1.997876
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 510411
Amount: 1.997876
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:35:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

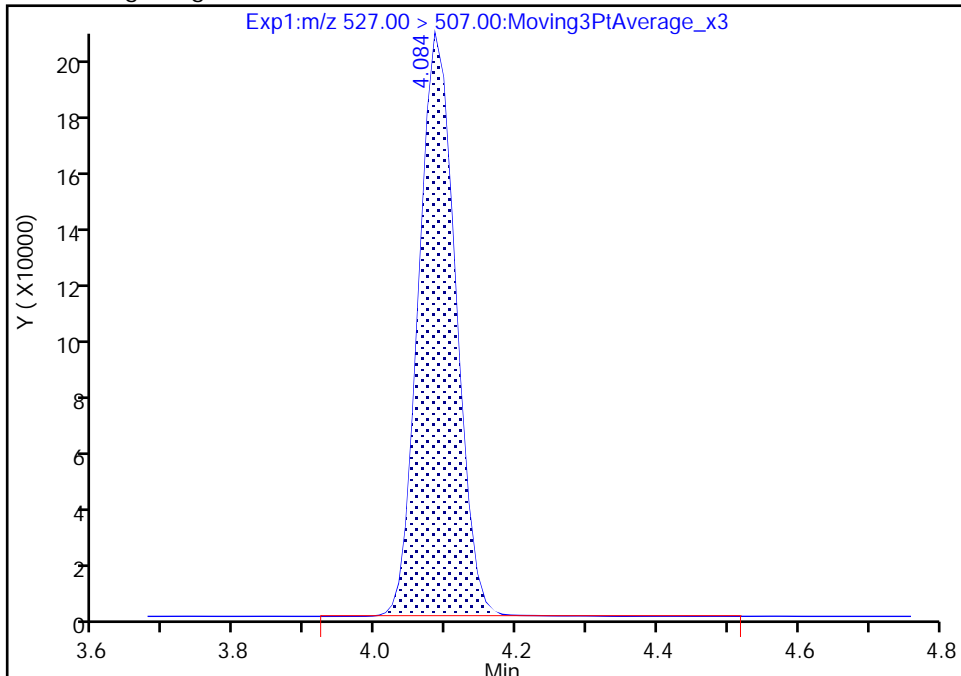
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

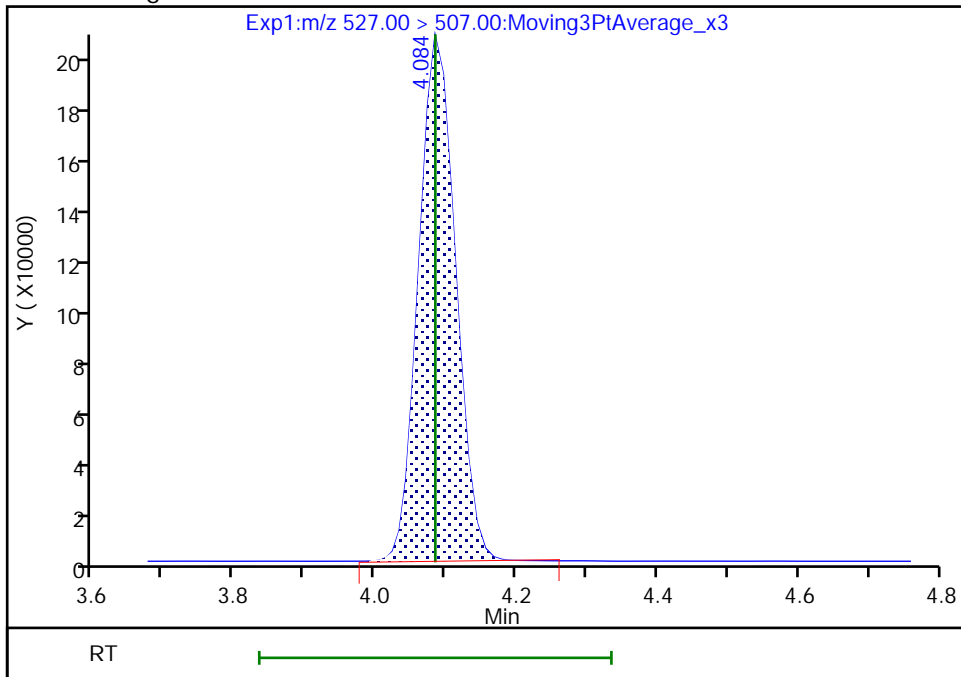
RT: 4.08
Area: 754578
Amount: 2.375680
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 752123
Amount: 2.367951
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:35:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

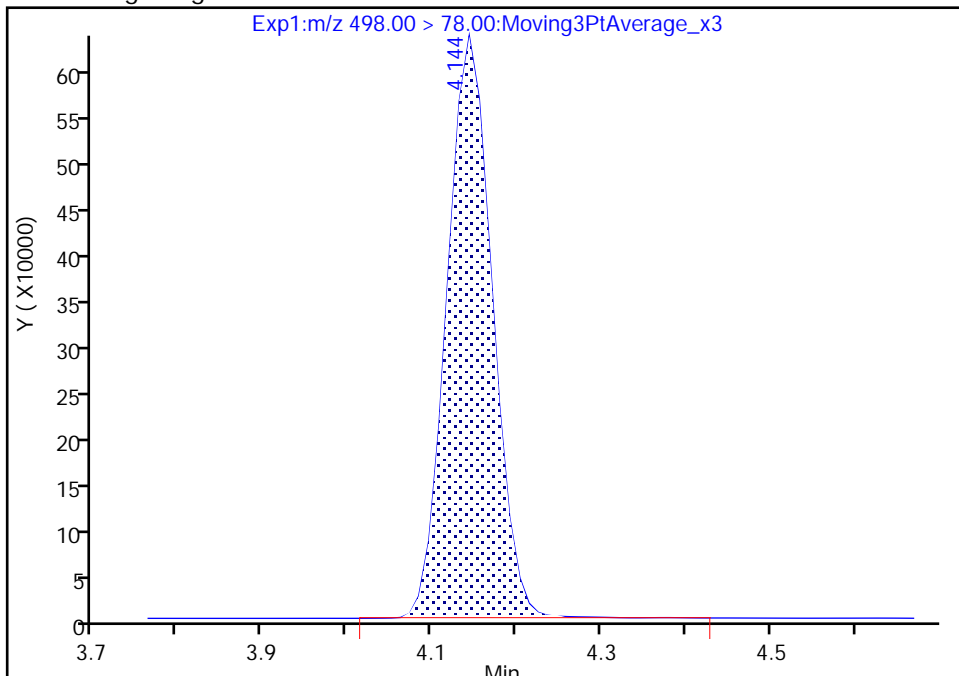
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

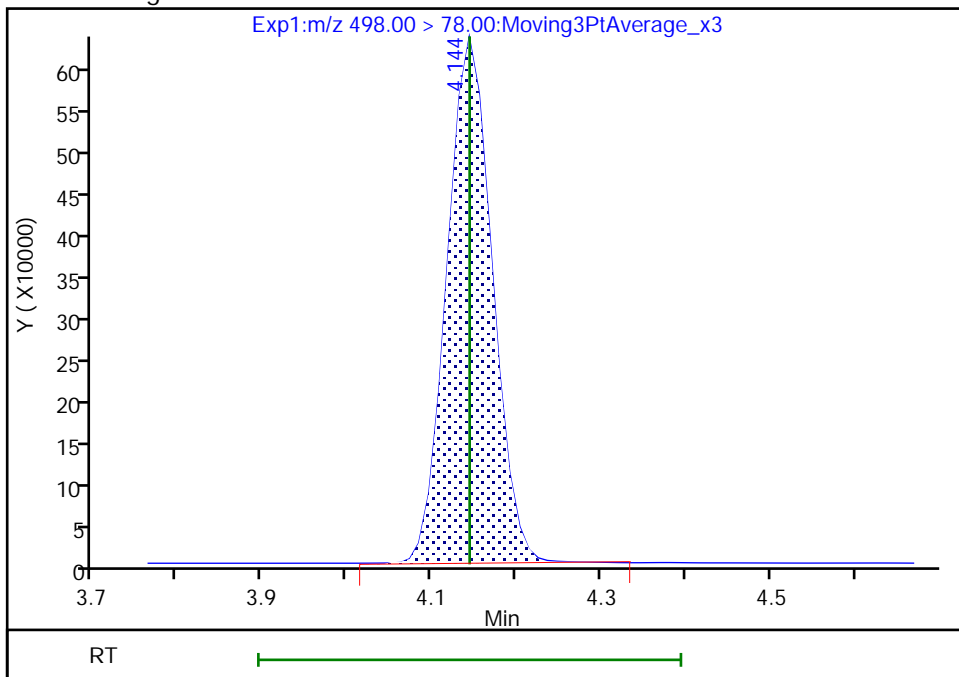
RT: 4.14
Area: 2369291
Amount: 2.150213
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 2365029
Amount: 2.146345
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:35:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

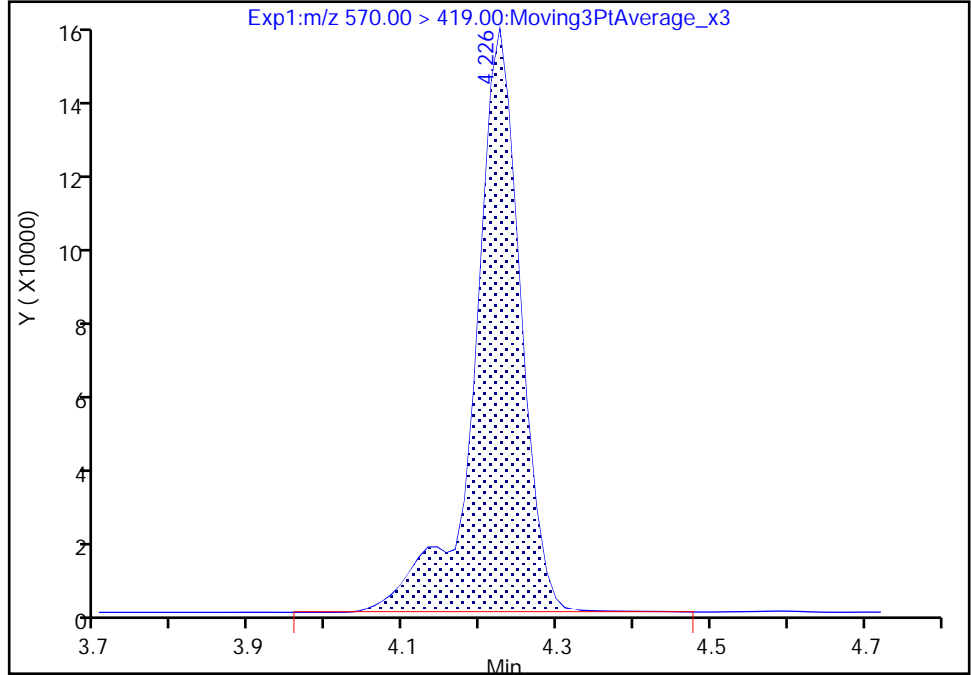
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

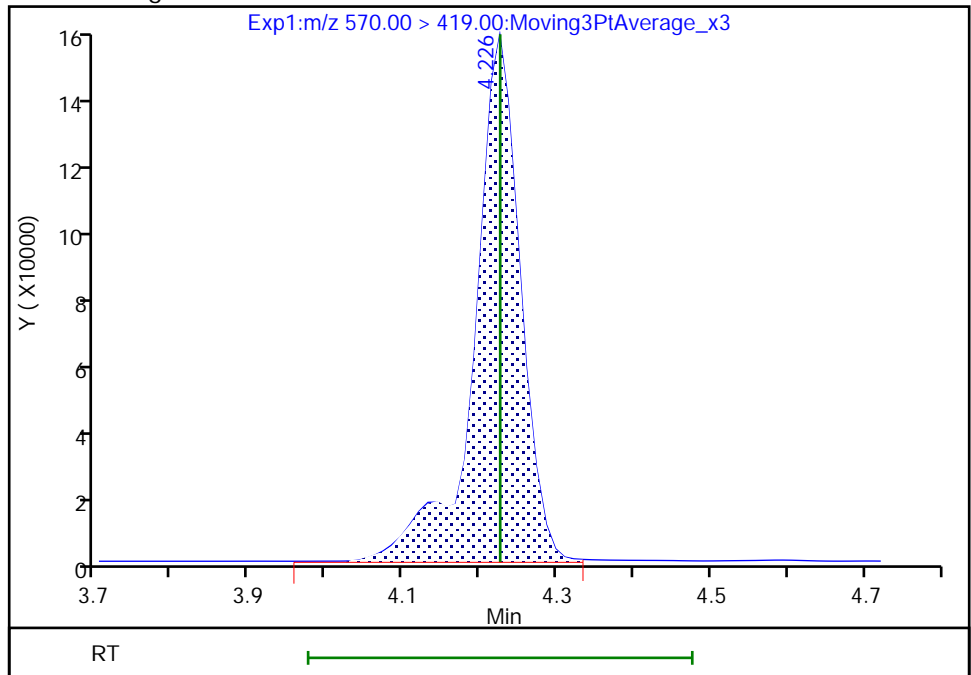
RT: 4.23
Area: 634227
Amount: 2.341697
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 631876
Amount: 2.333017
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:35:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

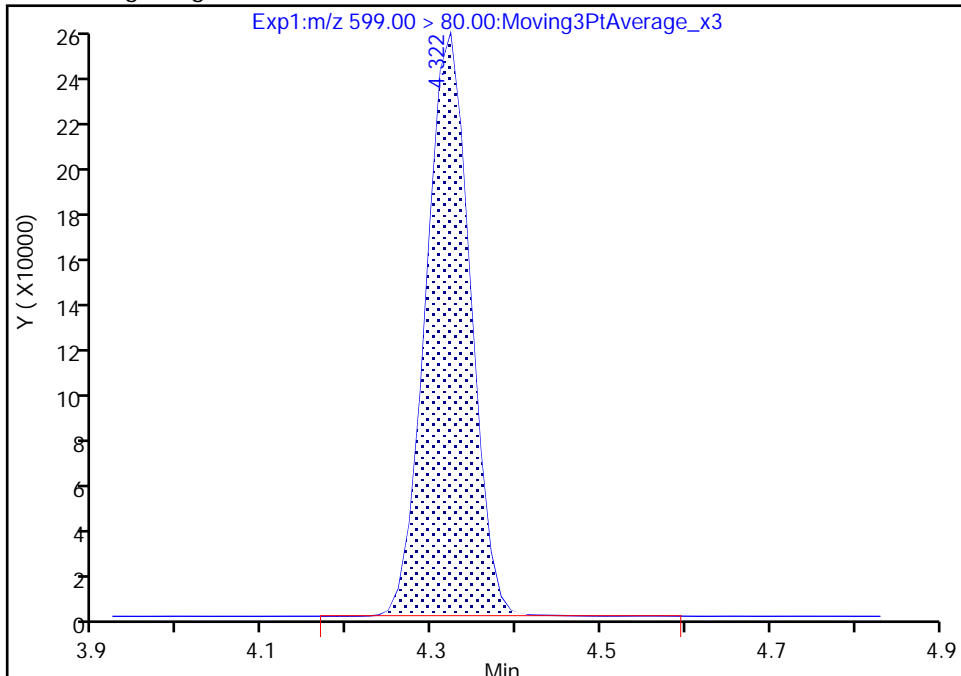
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

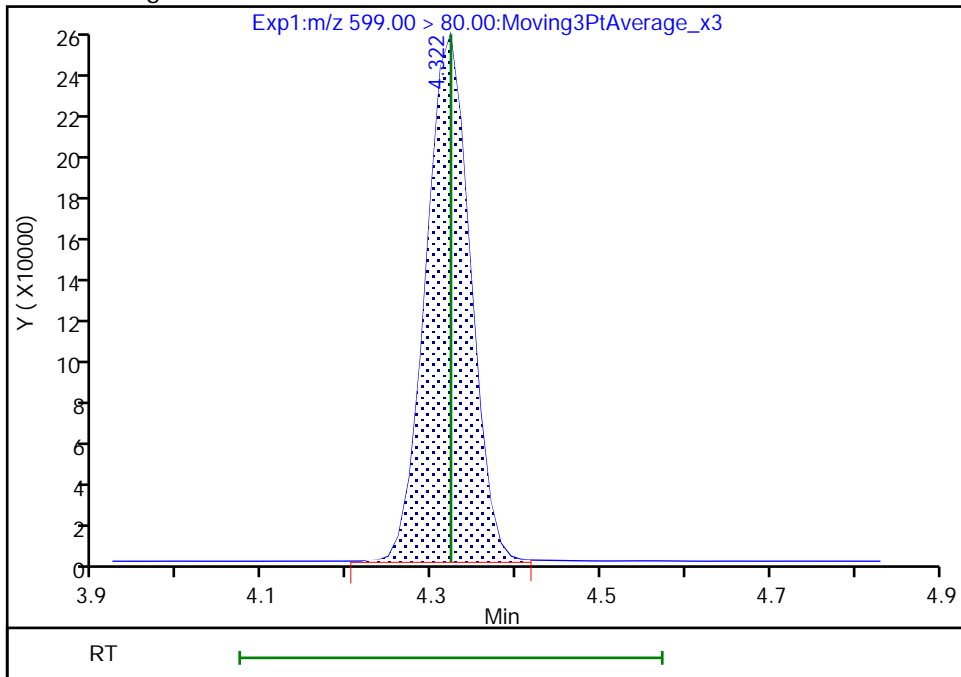
RT: 4.32
Area: 912819
Amount: 2.152106
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 910913
Amount: 2.147613
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:35:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

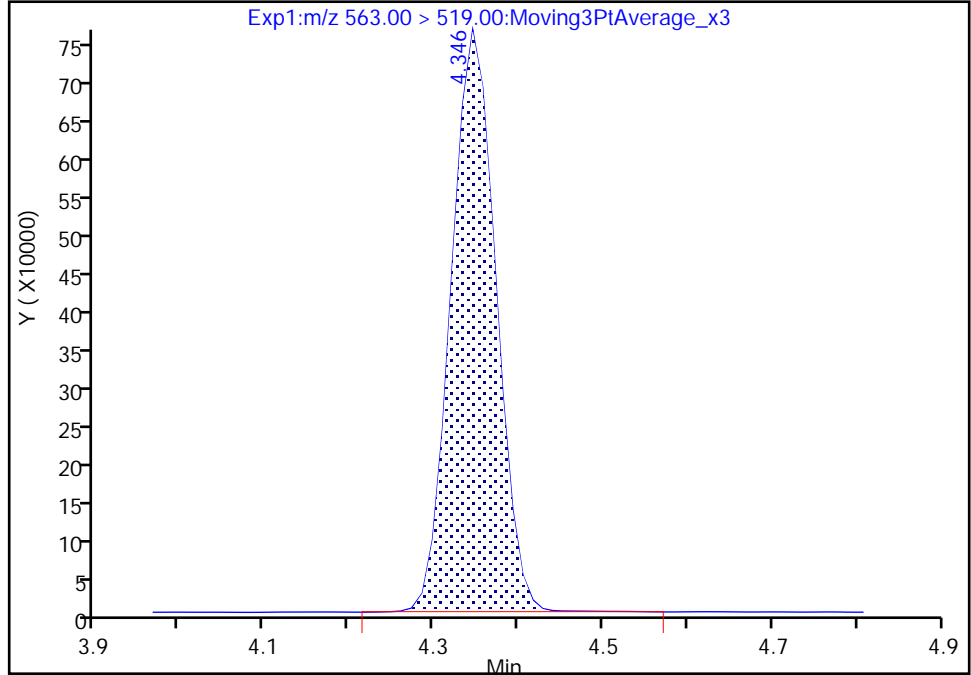
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

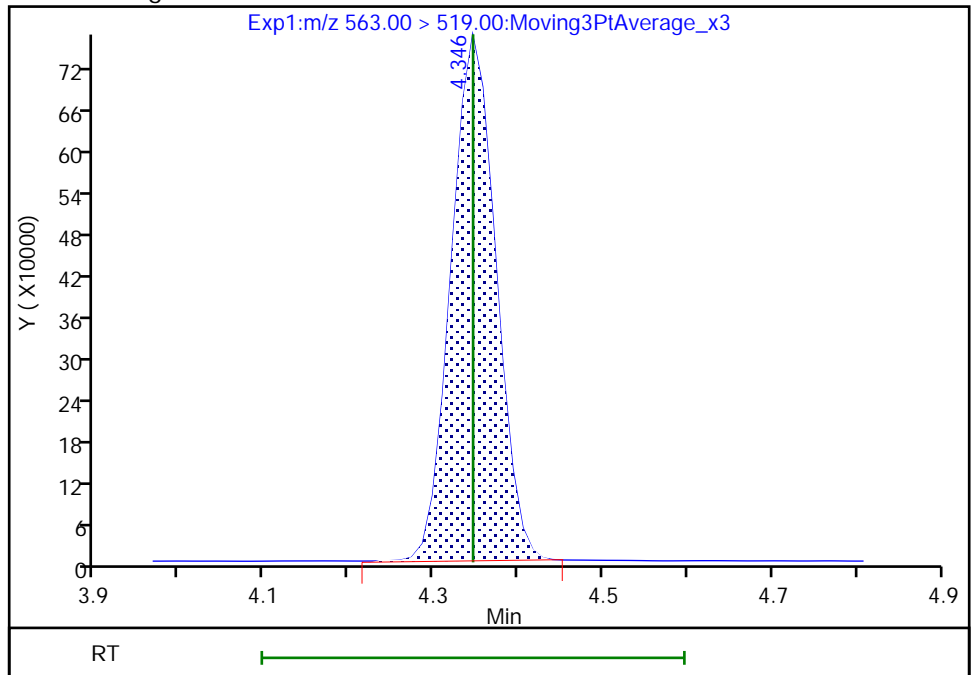
RT: 4.35
Area: 2835549
Amount: 2.330115
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2830022
Amount: 2.325573
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:35:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

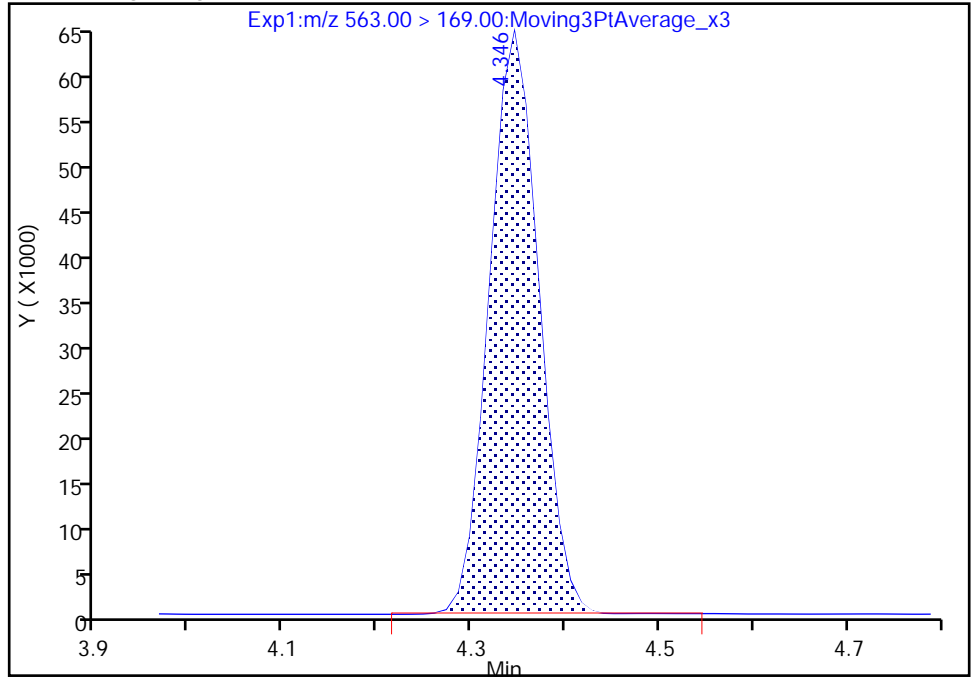
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

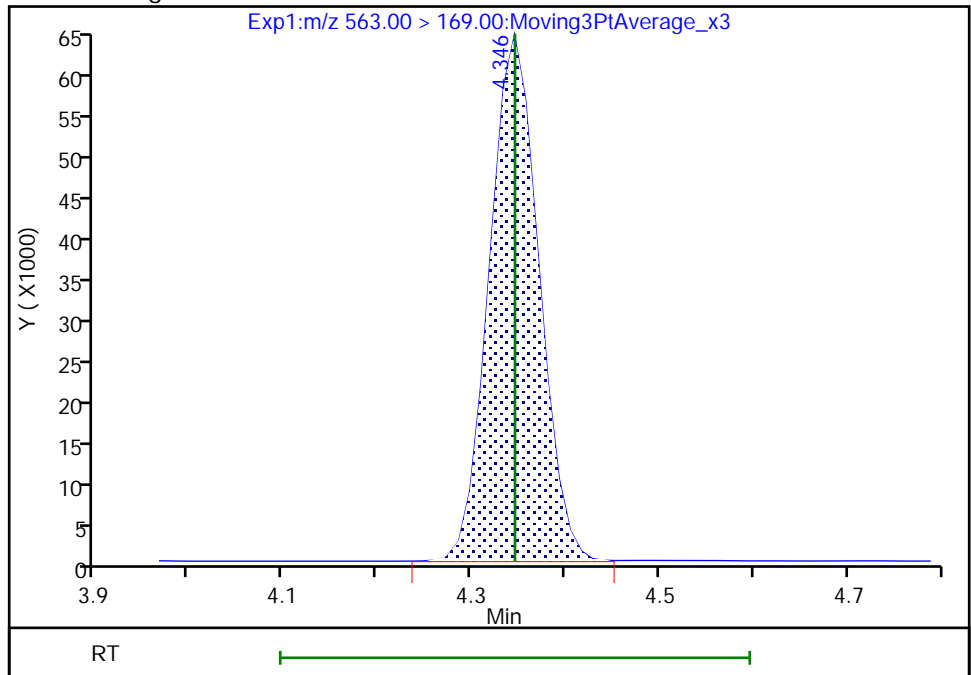
RT: 4.35
Area: 235937
Amount: 2.330115
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 235626
Amount: 2.325573
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:35:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

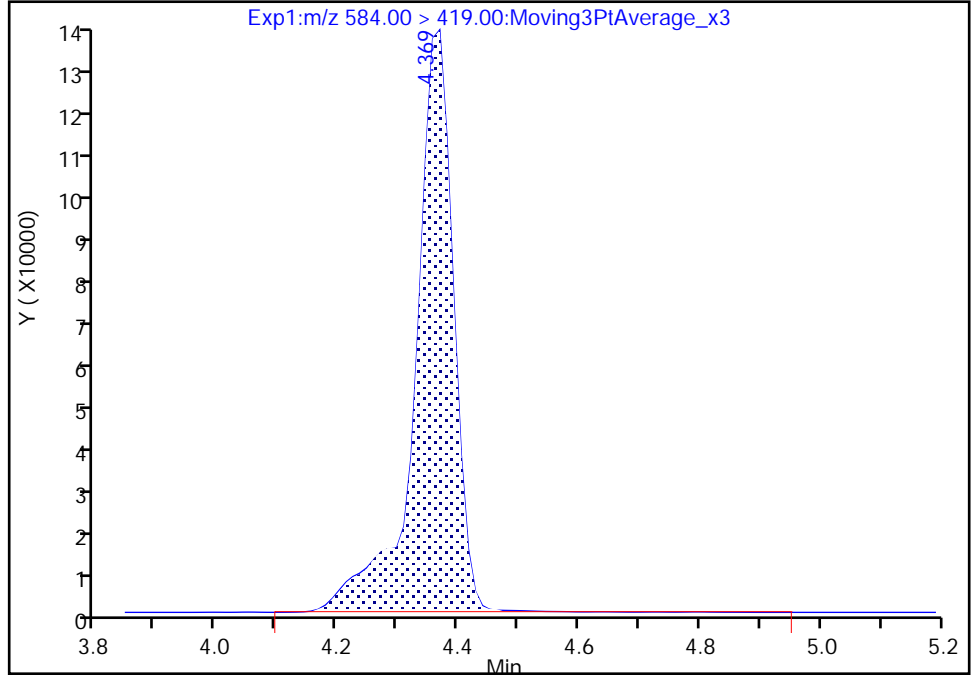
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

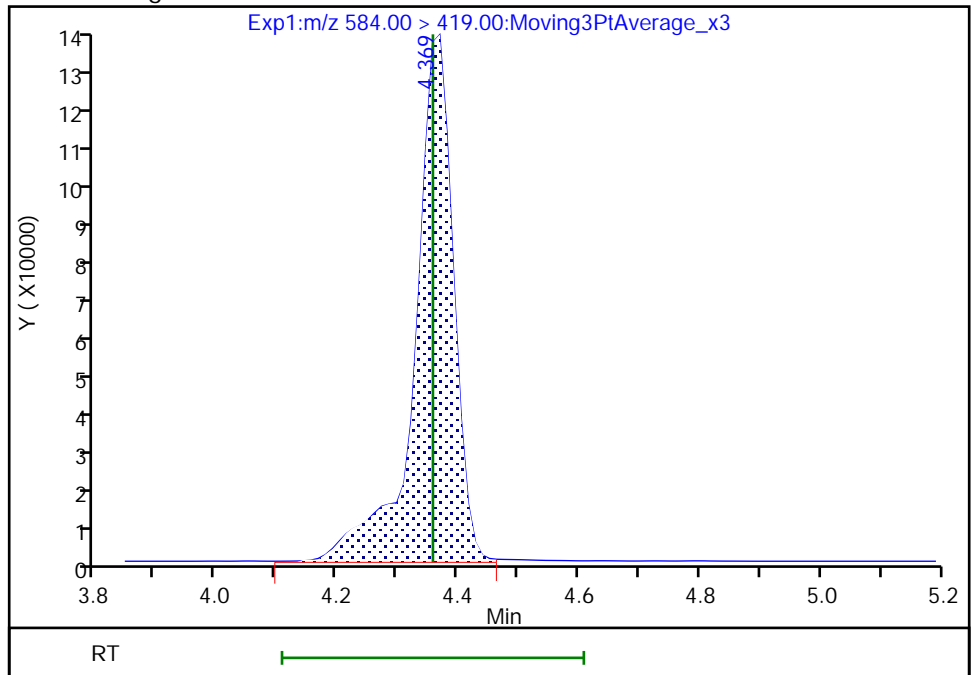
RT: 4.37
Area: 600559
Amount: 2.459056
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 596939
Amount: 2.444233
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:36:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

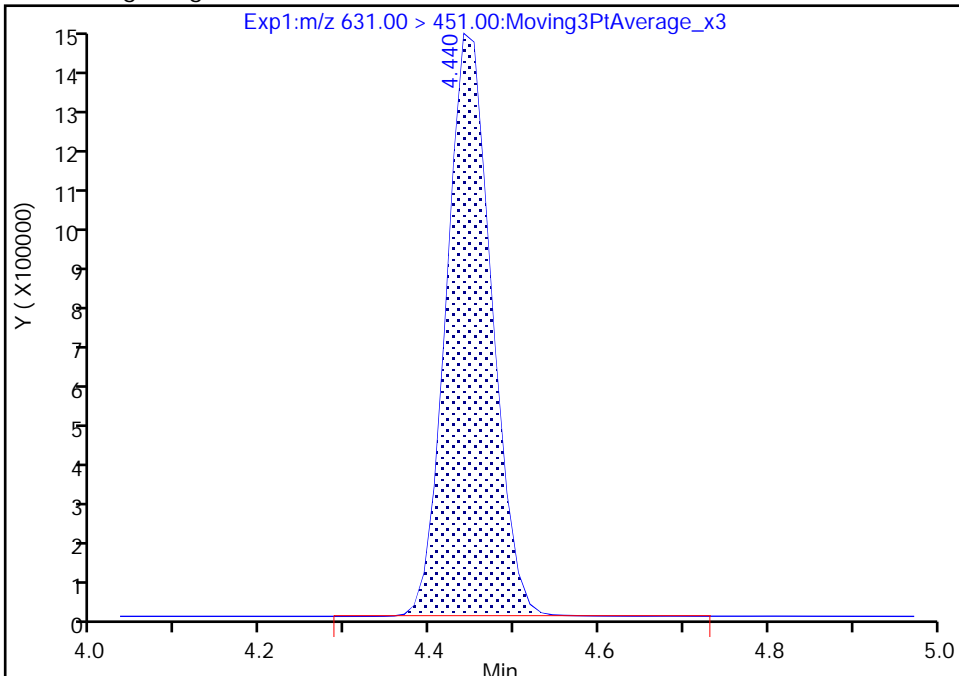
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafuoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

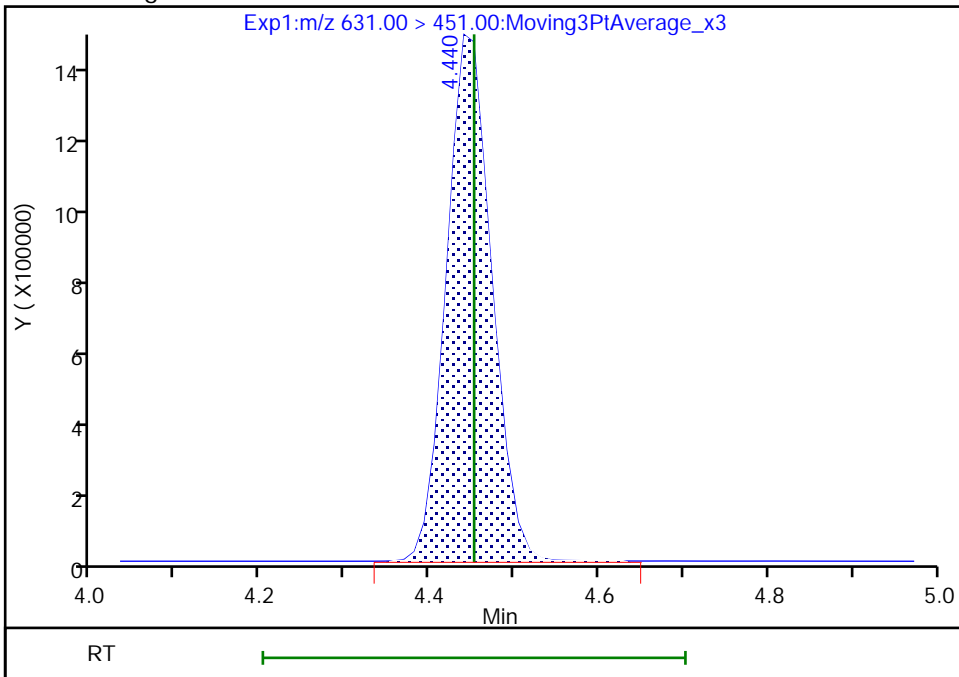
RT: 4.44
Area: 5484953
Amount: 2.167259
Amount Units: ng/ml

Processing Integration Results



RT: 4.44
Area: 5480868
Amount: 2.165645
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:36:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

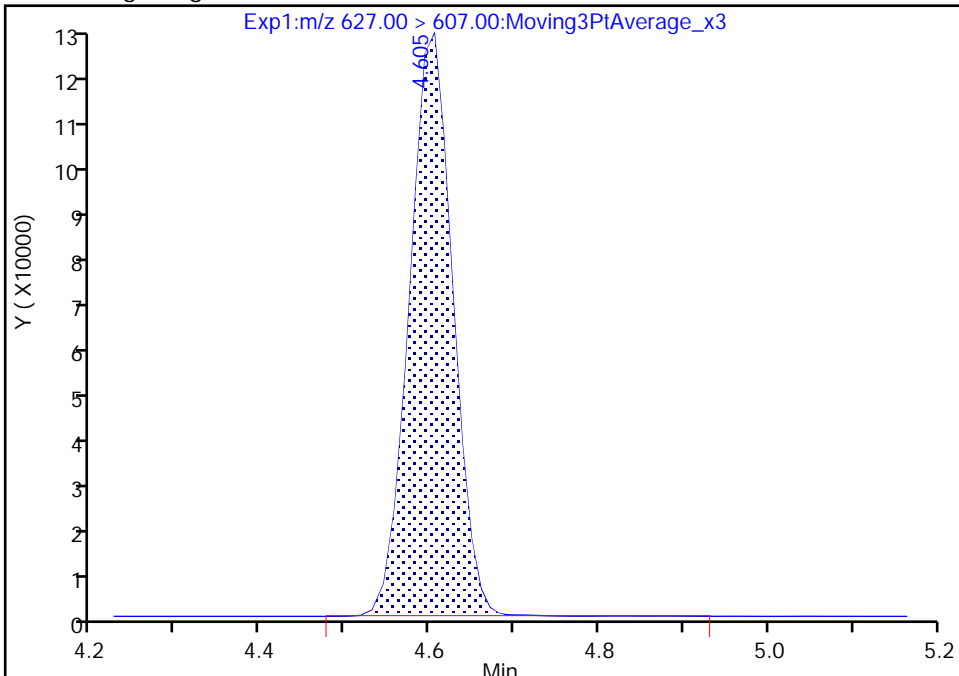
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

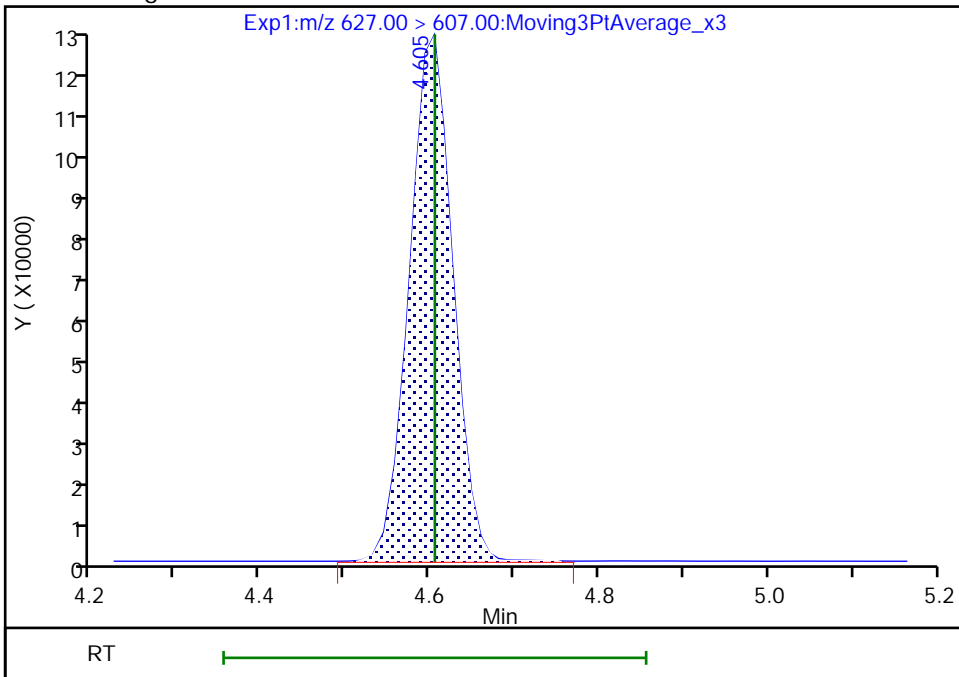
RT: 4.61
Area: 461000
Amount: 2.295412
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 460376
Amount: 2.292305
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:36:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

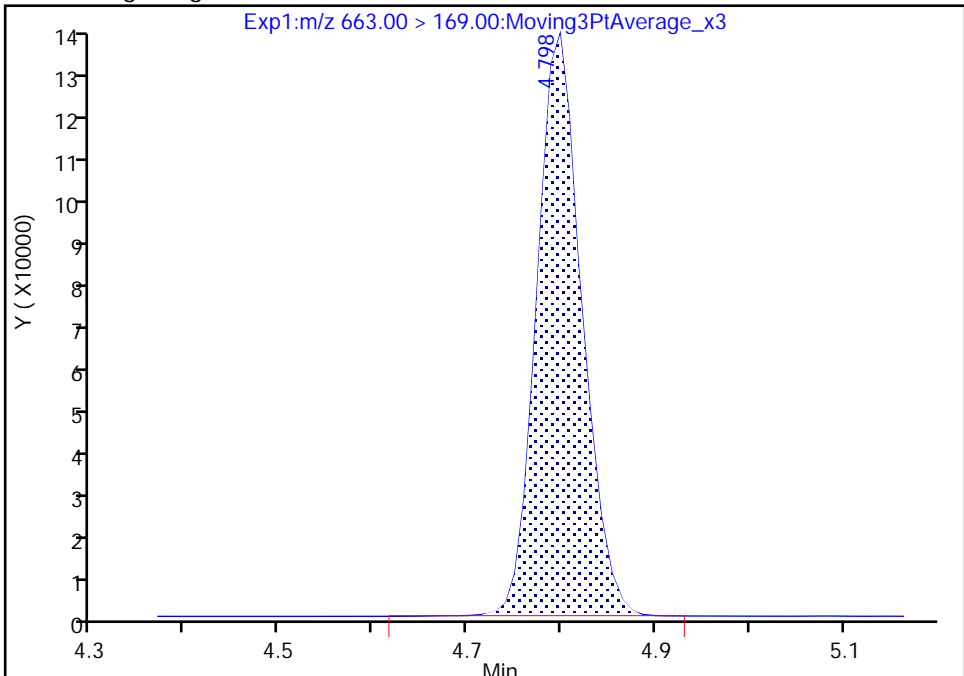
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

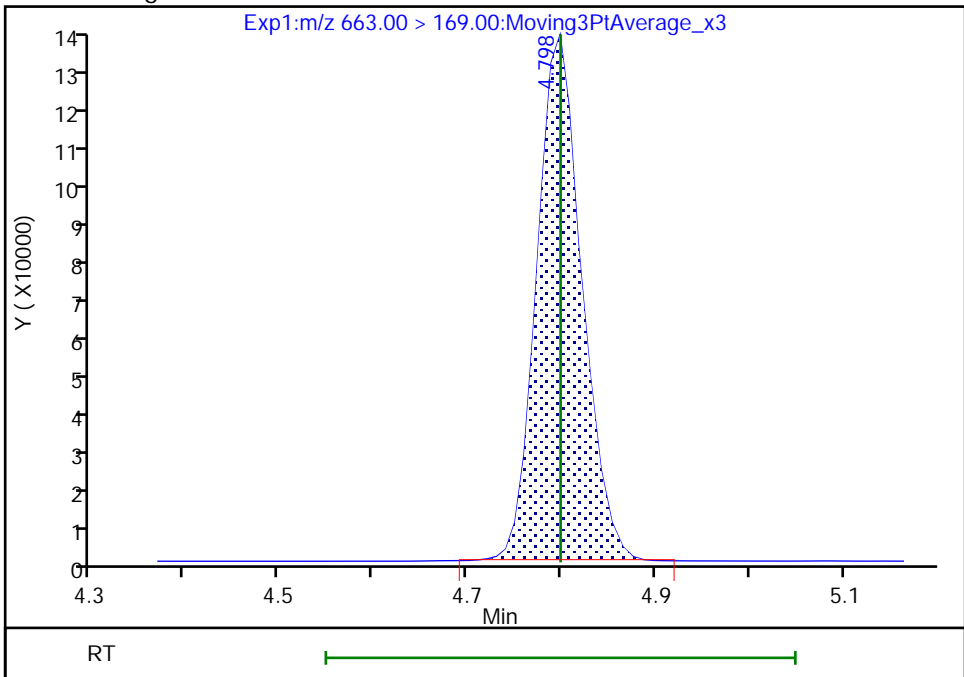
RT: 4.80
Area: 447469
Amount: 2.363270
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 446123
Amount: 2.354468
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:36:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

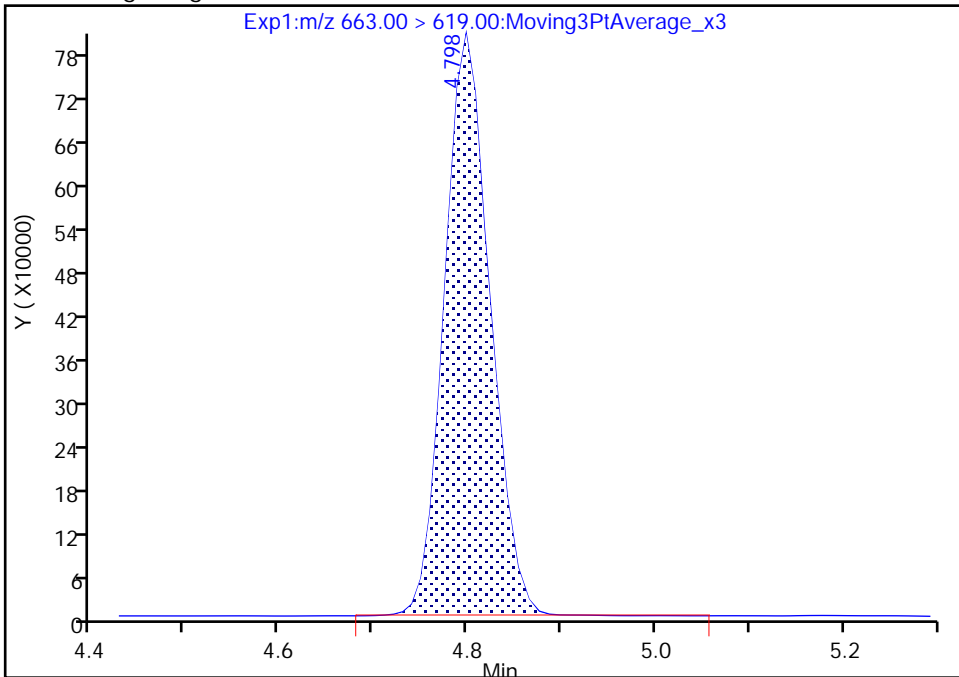
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

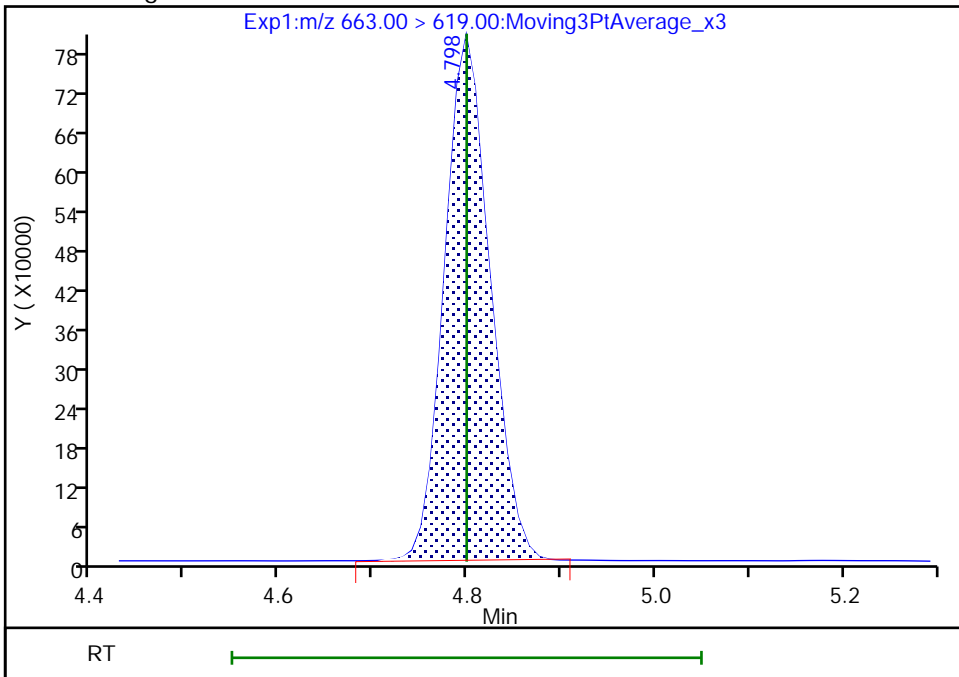
RT: 4.80
Area: 2697476
Amount: 2.363270
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 2687429
Amount: 2.354468
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:36:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

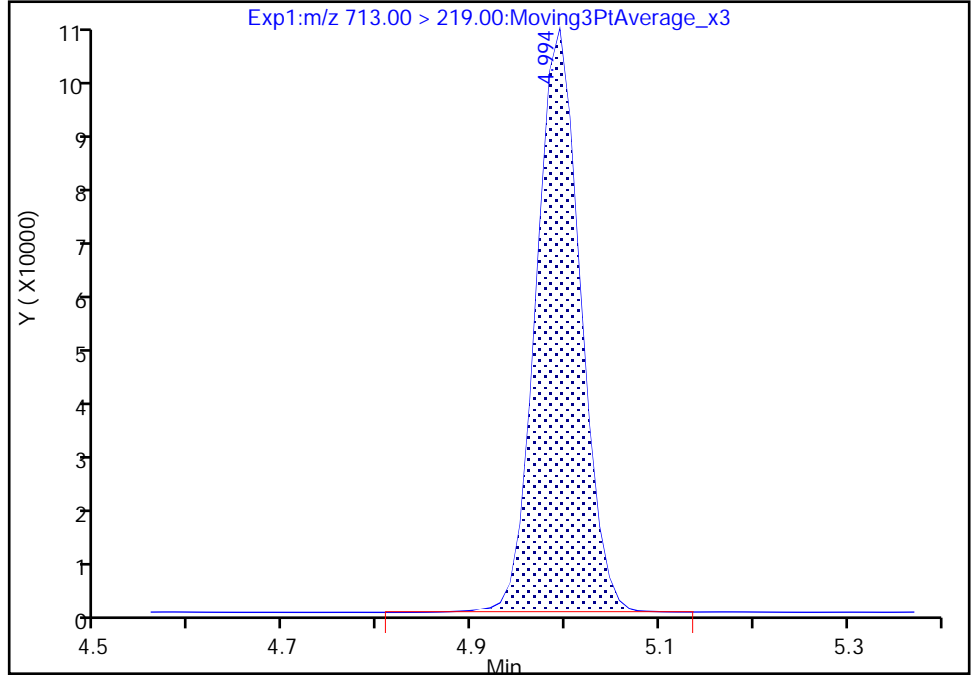
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

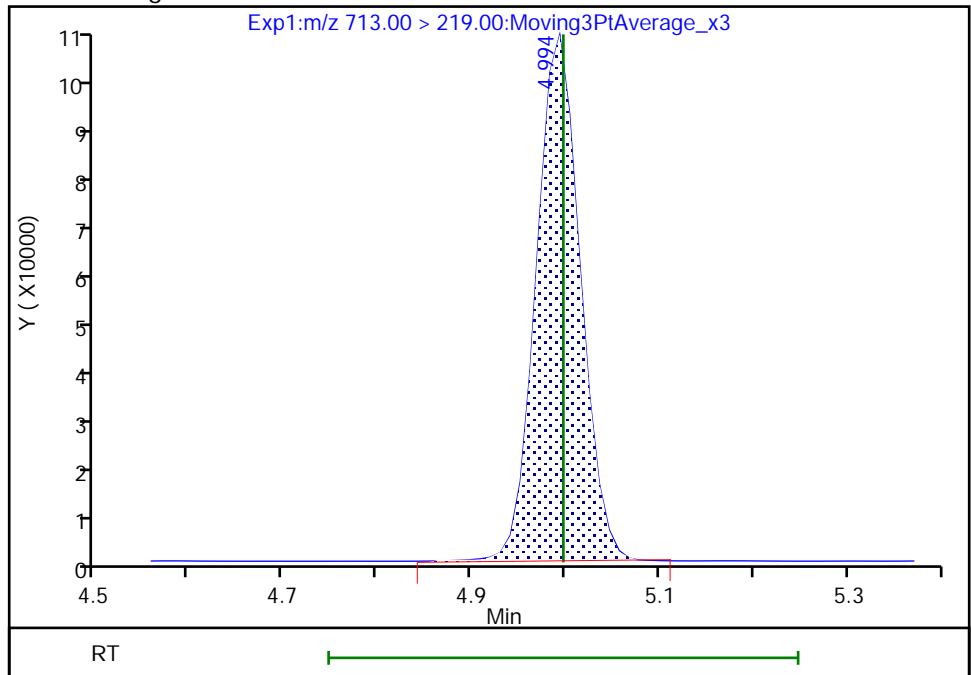
RT: 4.99
Area: 357454
Amount: 2.129294
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 357108
Amount: 2.129294
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:36:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

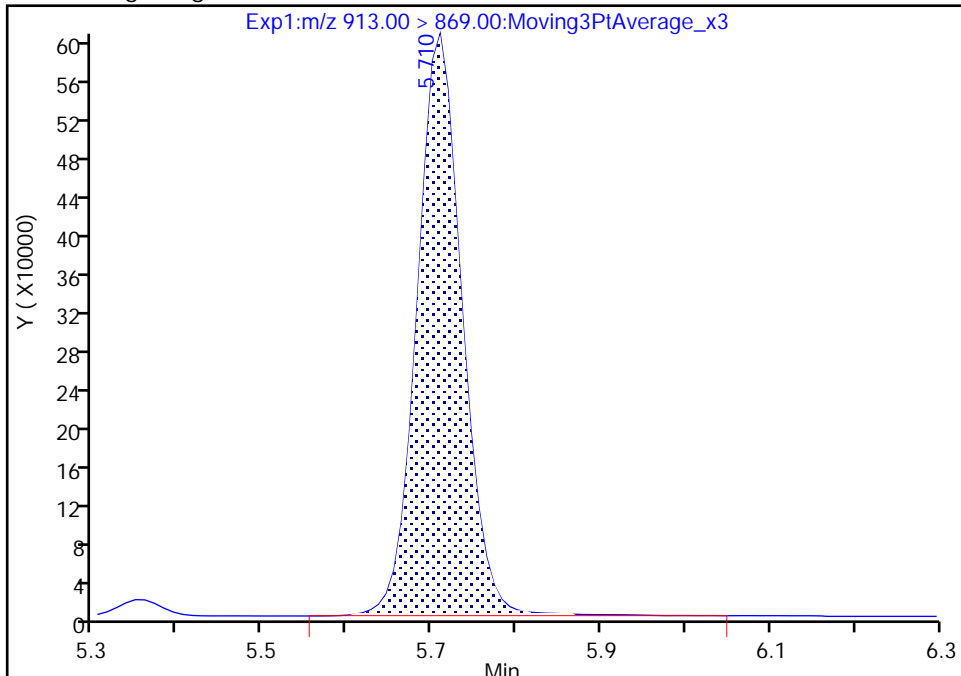
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B26.d
Injection Date: 23-Jan-2023 22:56:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: LC812user ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

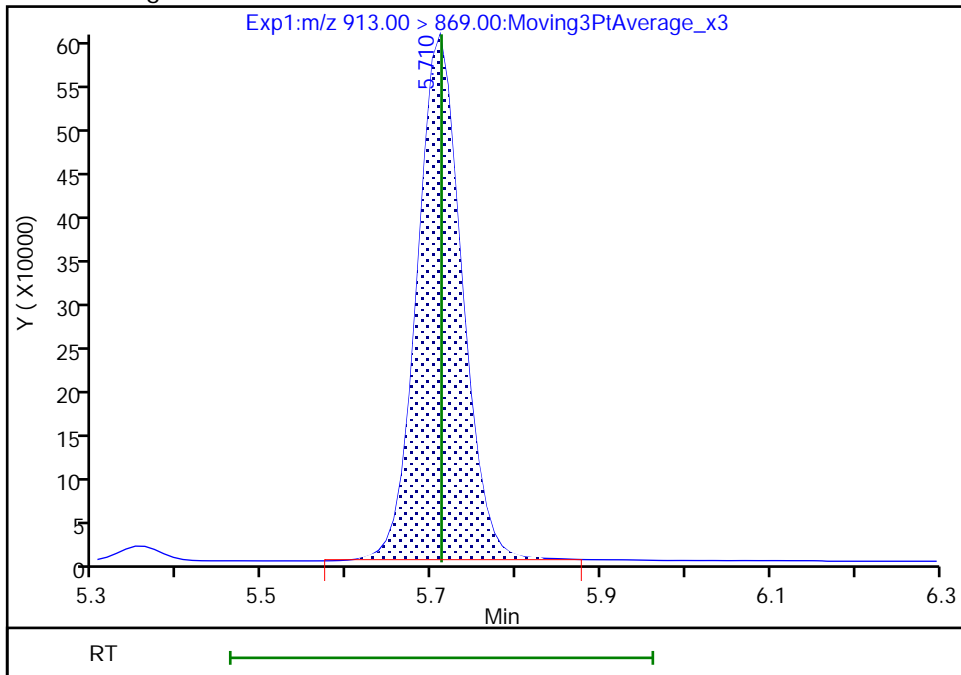
RT: 5.71
Area: 2241650
Amount: 2.271444
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 2221279
Amount: 2.250802
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:37:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187884/5 Calibration Date: 01/26/2023 20:19
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.9867		0.0868	0.125	-30.6	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	1.064		0.0464	0.0500	-7.1	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	1.084		0.0447	0.0442	1.2	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	2.821		0.0445	0.0467	-4.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.084		0.0514	0.0500	2.8	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.188		0.0450	0.0469	-4.0	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	1.031		0.103	0.100	3.1	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	1.222		0.0574	0.0500	14.8	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	1.097		0.0455	0.0455	-0.0	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	6.571		0.0540	0.0471	14.6	50.0
6:2 FTS	AveID	2.290	2.282		0.118	0.119	-0.4	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.534		0.0502	0.0476	5.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.251		0.0575	0.0500	14.9	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.412		0.0539	0.0464	16.2	50.0
Perfluorononanoic acid (PFNA)	AveID	1.022	0.9727		0.0476	0.0500	-4.8	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.978		0.0479	0.0466	2.7	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.9394		0.0447	0.0480	-6.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.069	1.016		0.0475	0.0500	-5.0	50.0
8:2 FTS	AveID	1.814	1.871		0.0494	0.0479	3.1	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	1.155		0.0574	0.0500	14.8	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.9596		0.133	0.125	6.4	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7410		0.0475	0.0482	-1.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	1.069		0.0490	0.0500	-2.0	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.8179		0.110	0.125	-12.0	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	5.724		0.0601	0.0471	27.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.018	1.179		0.0579	0.0500	15.8	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.077		0.0452	0.0482	-6.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.3357		0.0532	0.0484	9.9	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187884/5 Calibration Date: 01/26/2023 20:19
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	1.130		0.0555	0.0500	11.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1186		0.0475	0.0500	-5.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.219		0.0510	0.0500	2.0	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.8081		0.0500	0.0500	-0.0	50.0
13C4 PFBA	Ave	1.150	1.060		1.15	1.25	-7.8	
13C5 PFPeA	Ave	0.9294	0.8928		1.20	1.25	-3.9	
13C3 PFBS	Ave	1.020	0.8202		0.935	1.16	-19.6	
M2-4:2 FTS	Ave	0.0825	0.0752		1.06	1.17	-8.9	
13C2 PFHxA	Ave	0.9657	1.023		1.32	1.25	5.9	
13C3 HFPO-DA	Ave	0.1673	0.1397		1.04	1.25	-16.5	
13C4 PFHpA	Ave	0.9669	0.8334		1.08	1.25	-13.8	
18O2 PFHxS	Ave	0.7424	0.6202		0.988	1.18	-16.5	
M2-6:2 FTS	Ave	0.1170	0.1014		1.03	1.19	-13.3	
13C4 PFOA	Ave	1.024	1.005		1.23	1.25	-1.9	
13C4 PFOS	Ave	0.4514	0.3753		0.994	1.20	-16.8	
13C5 PFNA	Ave	0.998	1.016		1.27	1.25	1.8	
13C2 PFDA	Ave	1.024	0.998		1.22	1.25	-2.5	
M2-8:2 FTS	Ave	0.1466	0.1367		1.12	1.20	-6.8	
13C8 FOSA	Ave	0.8320	0.6823		1.03	1.25	-18.0	
d3-NMeFOSAA	Ave	0.2013	0.2042		1.27	1.25	1.5	
13C2 PFUnA	Ave	0.8836	0.8492		1.20	1.25	-3.9	
d5-NEtFOSAA	Ave	0.1934	0.2298		1.49	1.25	18.8	
13C2 PFDoA	Ave	0.8860	0.8177		1.15	1.25	-7.7	
13C2 PFTeDA	Ave	0.7620	0.8056		1.32	1.25	5.7	
13C2 PFHxDA	Ave	0.9339	0.8500		1.14	1.25	-9.0	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 26-Jan-2023 20:19:10 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0054135-005 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620
 First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:17:13
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.076	2.094	-0.018	0.603	1900194	1.15	92.2	21357	
2 Perfluorobutanoic acid	212.90 > 169.00	2.085	2.094	-0.009	1.004	187498	0.0868	69.4	21.9	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1599719	1.20	96.1	9237	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	68064	0.0464	92.9	2.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.410	2.384	0.026	0.700	1366787	0.9345	80.4	262603	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.410	2.384	0.026	1.000	56323	0.0447	Target=2.10	101	174
	298.90 > 99.00	2.410	2.384	0.026	1.000	25634		2.20(1.05-3.15)	33.3	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.000	14194	0.0445	95.3	142	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	125784	1.06	91.1	254	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1832466	1.32	106	7014	
6 Perfluorohexanoic acid	313.00 > 269.00	2.730	2.706	0.024	1.000	79420	0.0514	Target=13.16	103	21.9
	313.00 > 119.00	2.730	2.706	0.024	1.000	6149		12.92(6.58-19.74)	18.2	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.883	49534	0.0450	Target=2.90	96.0	175
	349.00 > 99.00	2.730	2.706	0.024	0.883	19083		2.60(1.45-4.35)	87.5	M
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	20650	0.1031	103	344	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	250388	1.04		83.5	4497	
D 11 18O2 PFHxS										
403.00 > 84.00	3.091	3.069	0.022	0.898	1051316	0.9879		83.5	3874	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.091	3.069	0.022	1.000	44393	0.0455	Target=3.18	100.0	195	M
399.00 > 99.00	3.080	3.069	0.011	0.996	14561		3.05(1.59-4.77)		49.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1493357	1.08		86.2	4458	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	73023	0.0574	Target=4.10	115	20.5	
363.00 > 169.00	3.091	3.069	0.022	1.000	17239		4.24(2.05-6.16)		80.9	
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.833	166510	0.0540	Target=2.96	115	199	
377.00 > 85.00	3.126	3.104	0.022	0.833	54970		3.03(1.48-4.44)		216	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	172669	1.03		86.7	1055	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	39313	0.1181		99.6	87.1	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.915	39288	0.0502	Target=4.59	105	331	
449.00 > 99.00	3.434	3.417	0.017	0.915	8935		4.40(2.30-6.89)		116	
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1801277	1.23		98.1	8511	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1791794	1.25			6231	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	90132	0.0575	Target=2.71	115	9.5	M
413.00 > 169.00	3.443	3.426	0.017	1.000	28893		3.12(1.36-4.07)		103	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	642937	0.99		83.2	5903	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.003	35243	0.0539	Target=4.23	116	53.8	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	7426		4.75(2.11-6.34)		40.0	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	70798	0.0476	Target=8.78	95.2	14.3	
463.00 > 169.00	3.773	3.774	-0.001	1.000	8643		8.19(4.39-13.17)		172	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1819567	1.27		102	8720	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.045	74669	0.0479		103	370	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	24261	0.0447	Target=2.37	93.1	234	
549.00 > 99.00	4.052	4.043	0.009	1.080	11082		2.19(1.18-3.55)		135	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1788789	1.22		97.5	6459	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	72677	0.0475	Target=11.13	95.0	27.8	
513.00 > 169.00	4.084	4.074	0.010	1.003	6811		10.67(5.56-16.69)		71.4	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	234573	1.12		93.2	2049	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	17553	0.0494		103	255	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	56480	0.0574		115	357	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1222518	1.03		82.0	5467	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	365971	1.27		101	1146	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	35118	0.1330		106	107	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.152	19215	0.0475	Target=2.45	98.5	337	
599.00 > 99.00	4.322	4.322	0.0	1.152	9220		2.08(1.23-3.68)		169	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1521550	1.20		96.1	9167	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	65085	0.0490	Target=10.33	98.0	23.2	
563.00 > 169.00	4.346	4.346	0.0	1.000	4563		14.26(5.17-15.50)		50.3	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.357	4.358	-0.001	1.000	33675	0.1100		88.0	285	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	411731	1.49		119	889	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.451	4.452	-0.001	1.186	145044	0.0601		128	586	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	69073	0.0579	Target=8.10	116	9.6	M
613.00 > 169.00	4.583	4.584	-0.001	1.000	7747		8.92(4.05-12.15)		118	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1465220	1.15		92.3	5244	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	10164	0.0452		93.9	258	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.271	8741	0.0532	Target=0.51	110	263	M
699.00 > 99.00	4.769	4.770	-0.001	1.271	14393		0.61(0.26-0.77)		268	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.049	66208	0.0555	Target=6.06	111	9.3	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	10245		6.46(3.03-9.09)		94.3	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	6846	0.0475	Target=0.83	95.0	104	
713.00 > 219.00	5.004	4.998	0.006	1.000	8266		0.83(0.42-1.25)		126	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1443554	1.32		106	7402	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.371	5.362	0.009	1.002	74259	0.0510	Target=6.74	102	11.6	M
813.00 > 169.00	5.371	5.362	0.009	1.002	10493		7.08(3.37-10.11)		158	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1522972	1.14		91.0	6426	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.719	5.711	0.008	1.067	49228	0.0500	Target=6.99	99.9	9.4	M
913.00 > 169.00	5.719	5.711	0.008	1.067	6332		7.77(3.50-10.49)		186	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00024

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d

Injection Date: 26-Jan-2023 20:19:10

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: LC812user

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

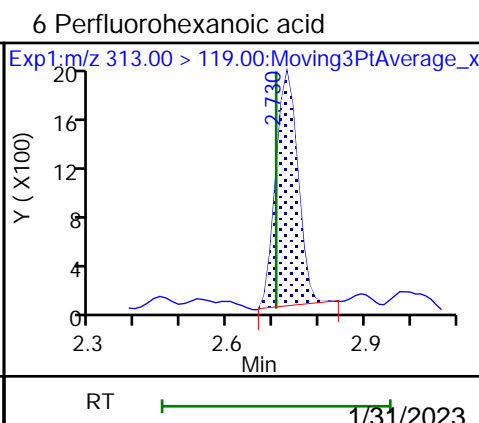
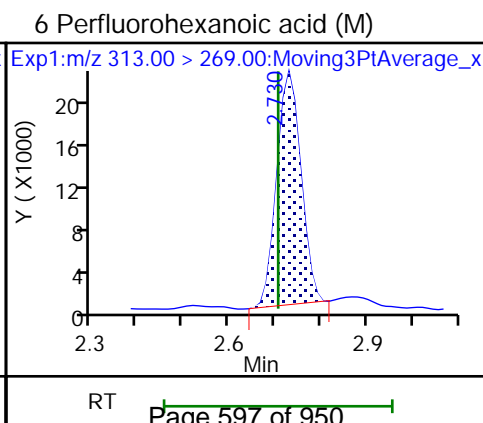
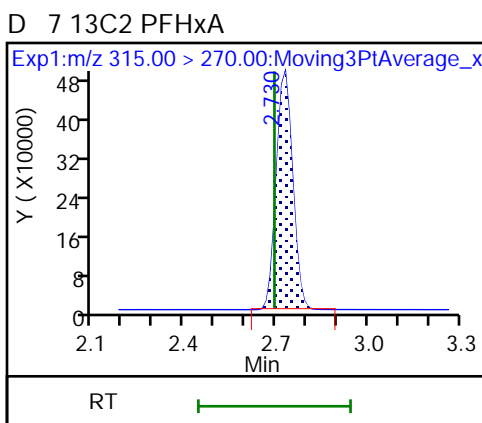
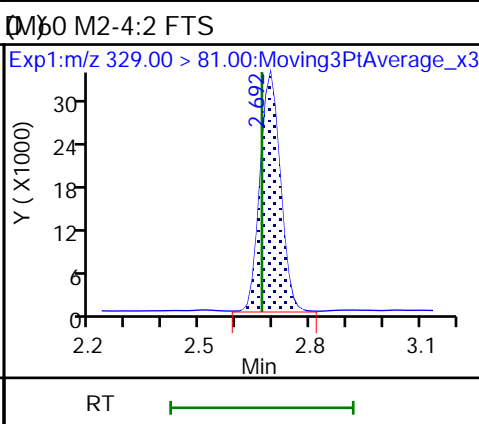
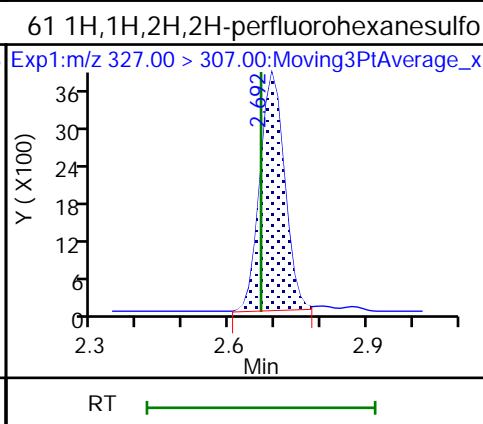
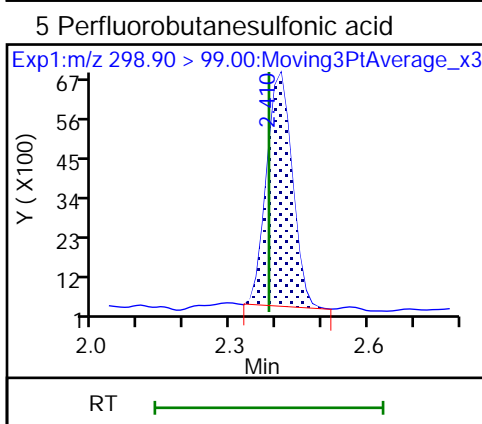
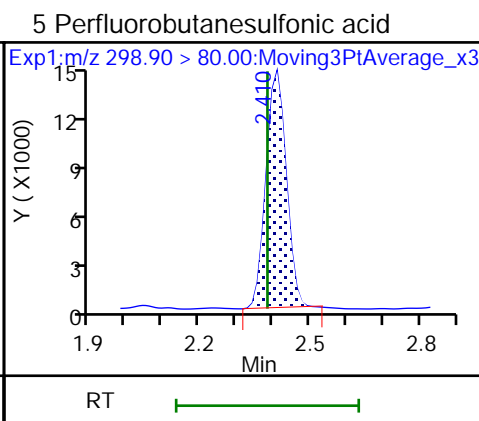
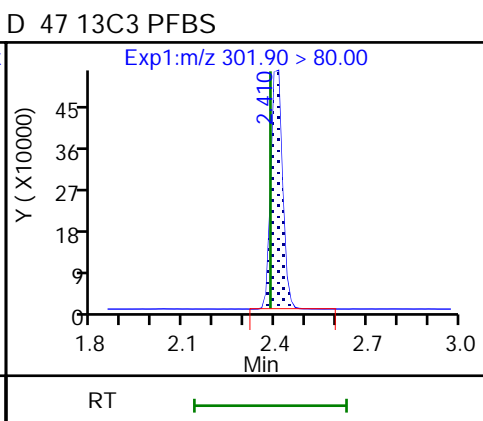
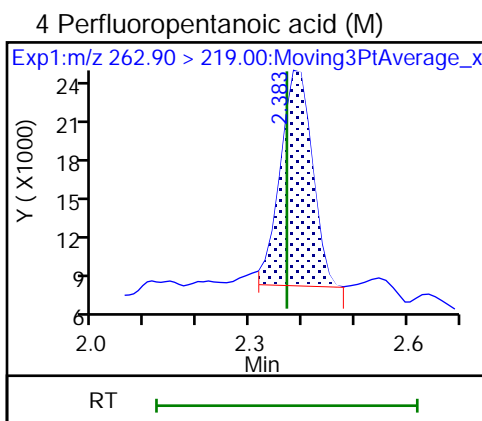
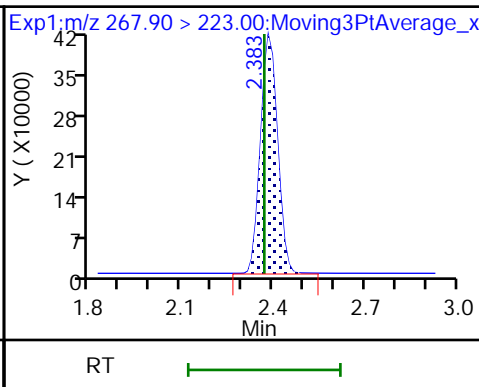
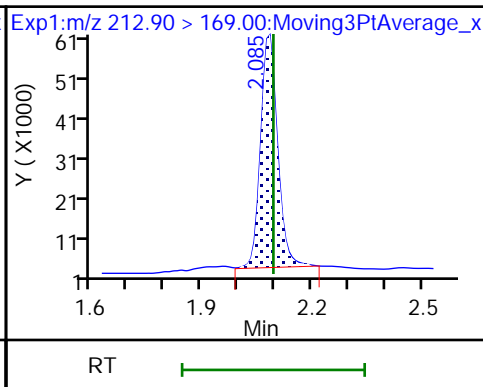
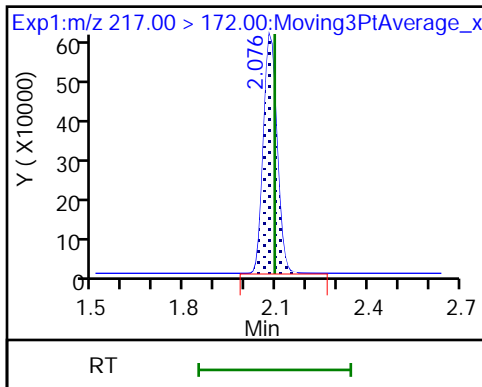
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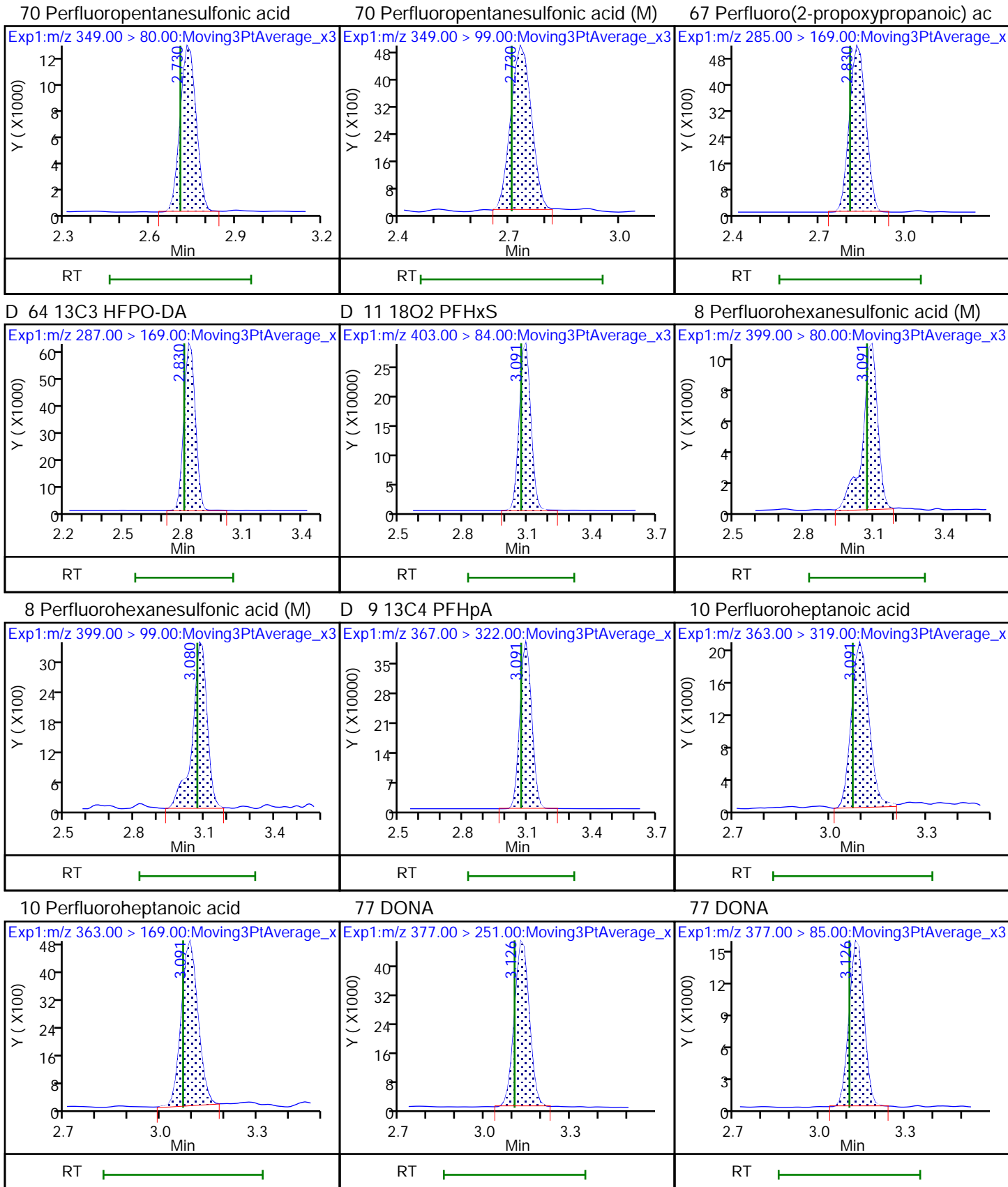
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

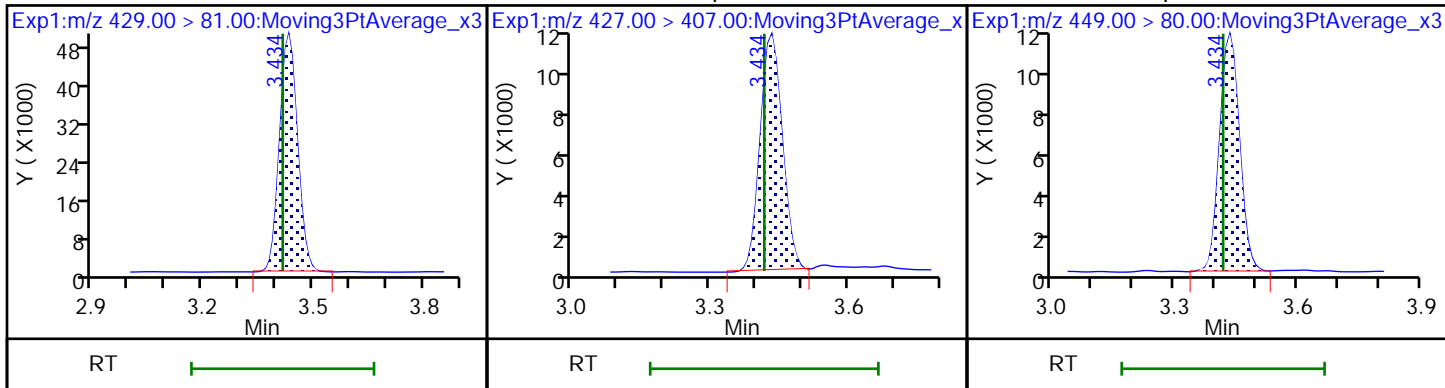




D 12 M2-6:2 FTS

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

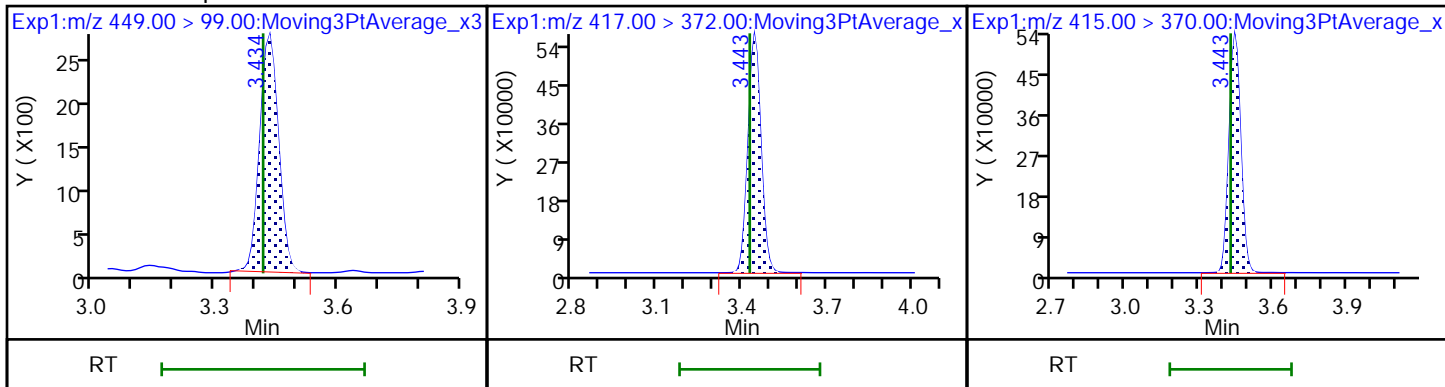
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

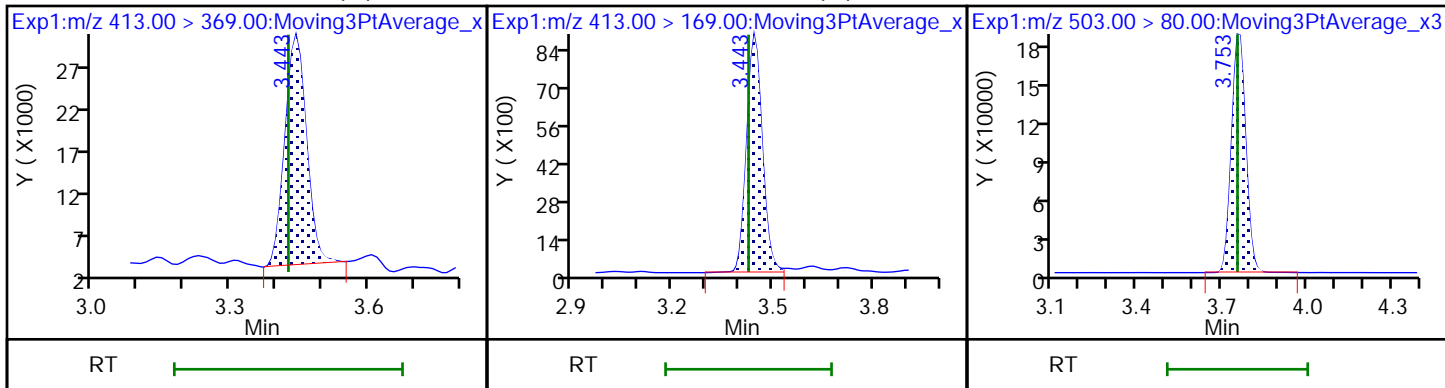
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

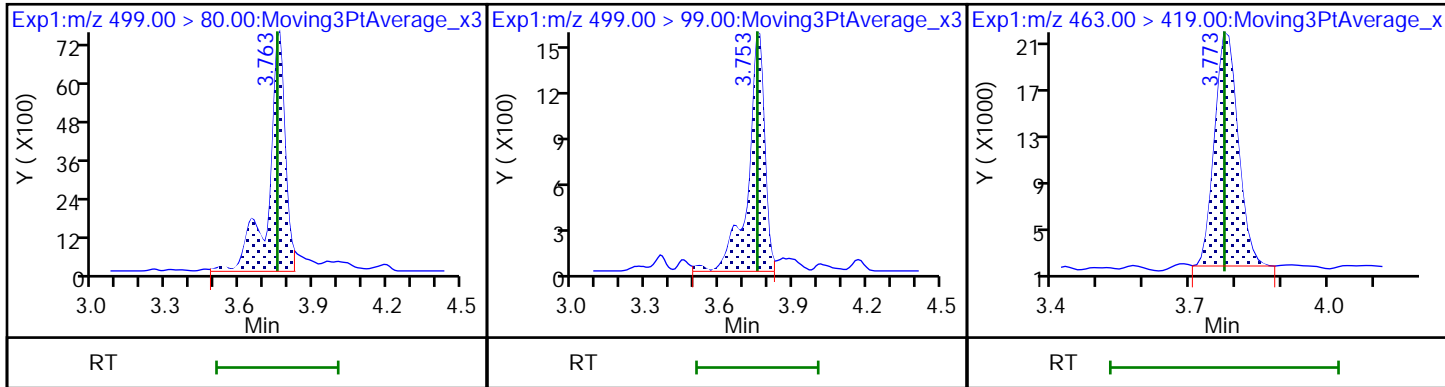
D 18 13C4 PFOS

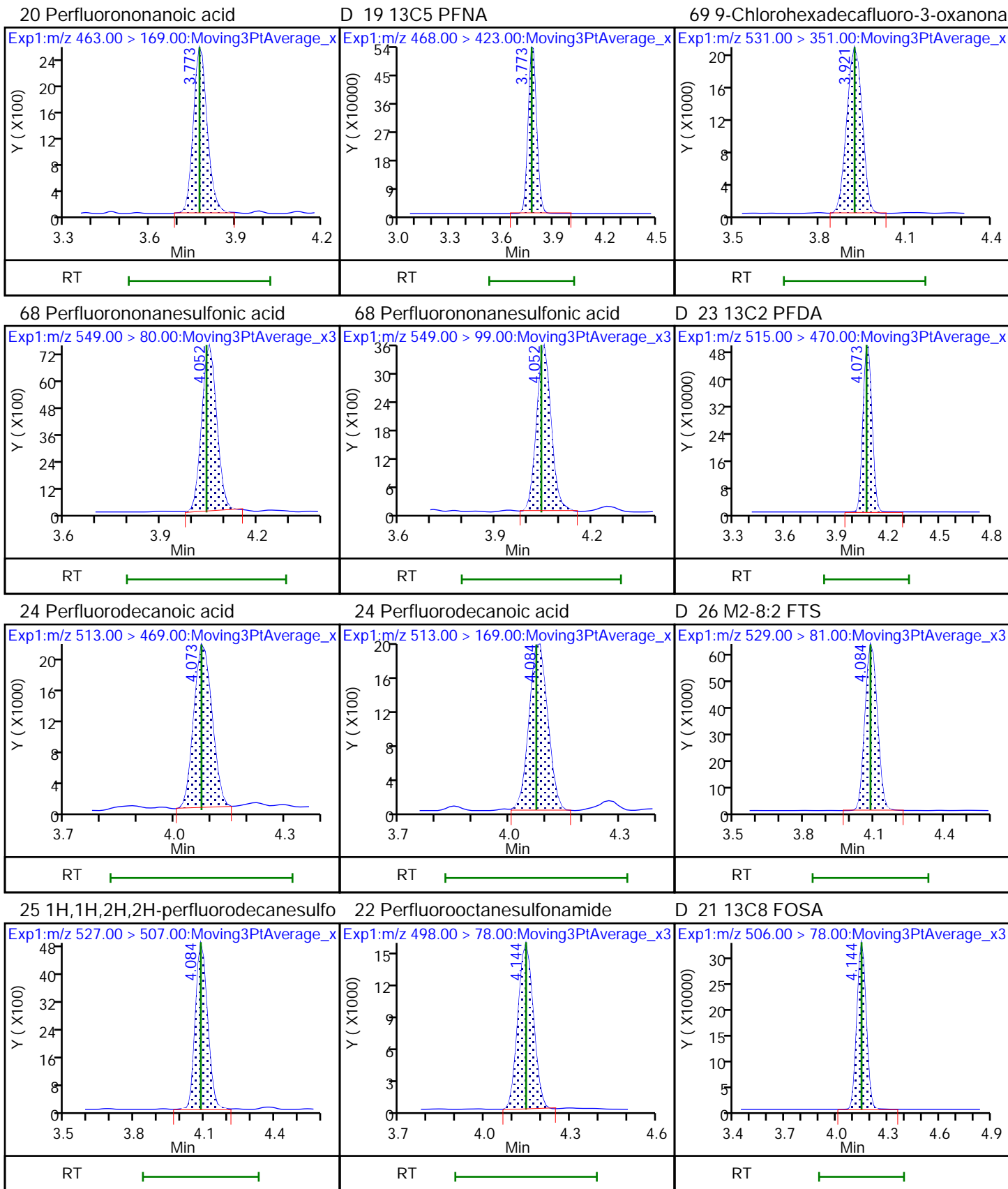


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

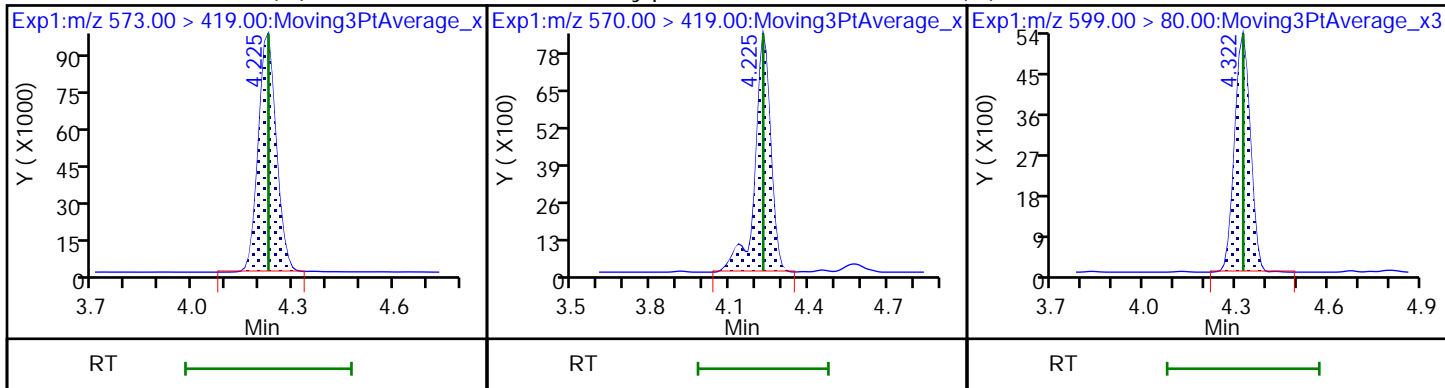
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA (M)

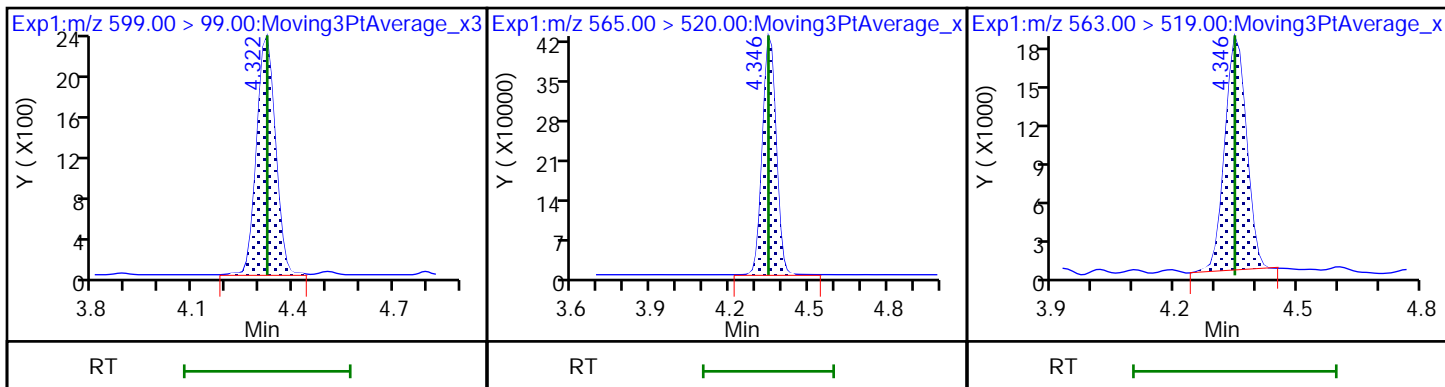
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

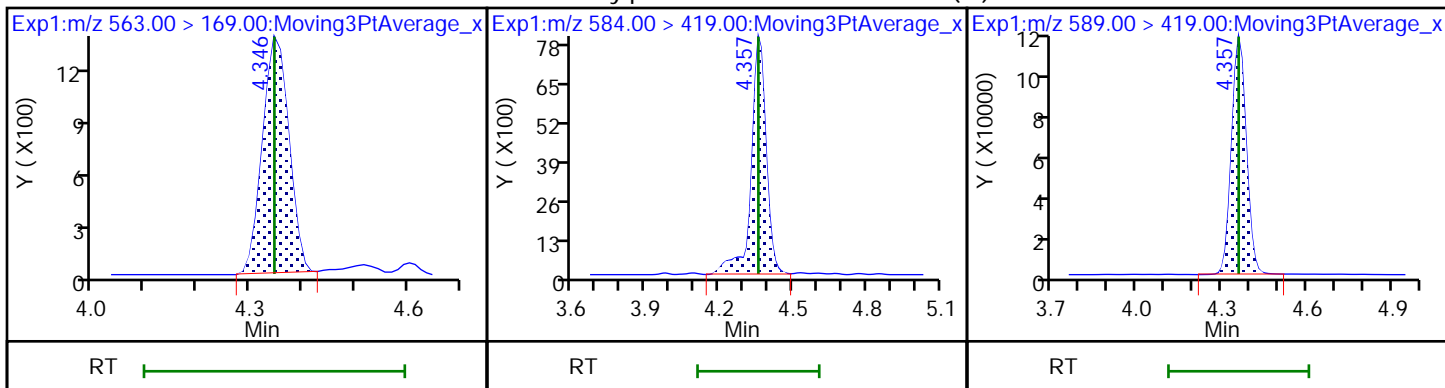
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

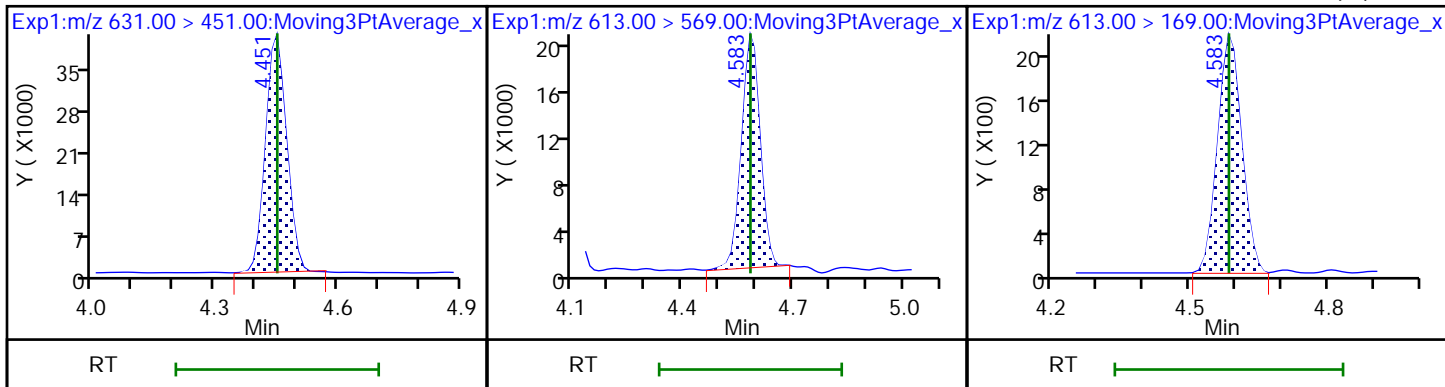
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

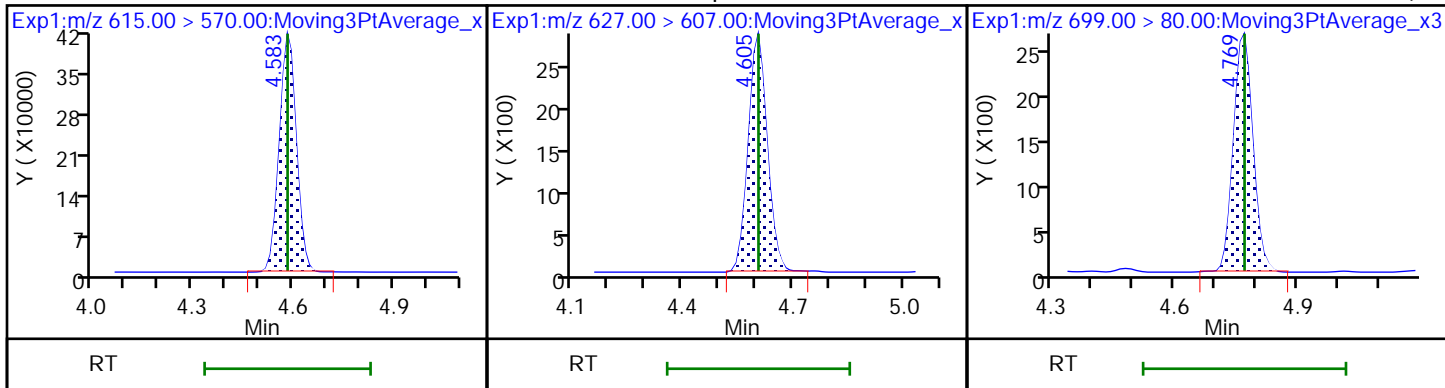
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDoA

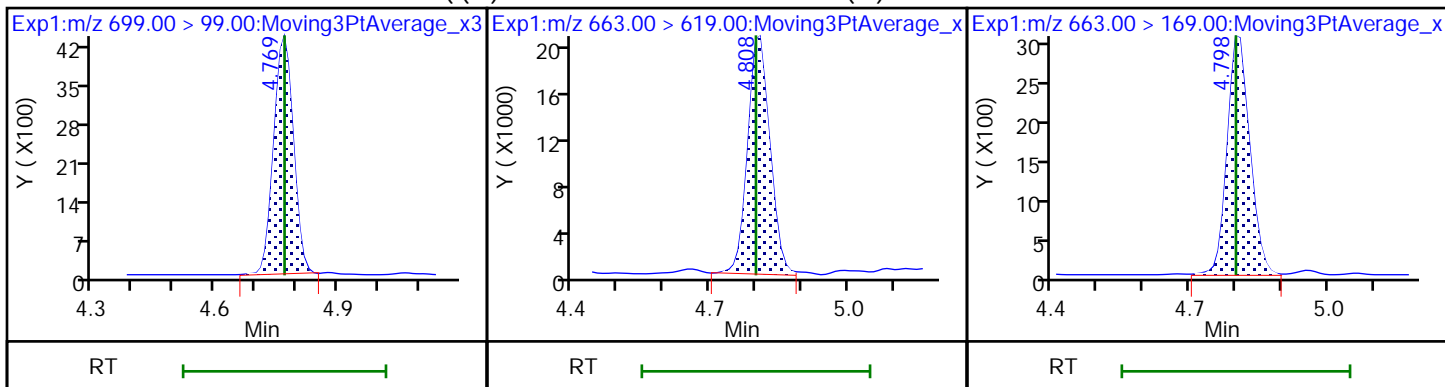
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

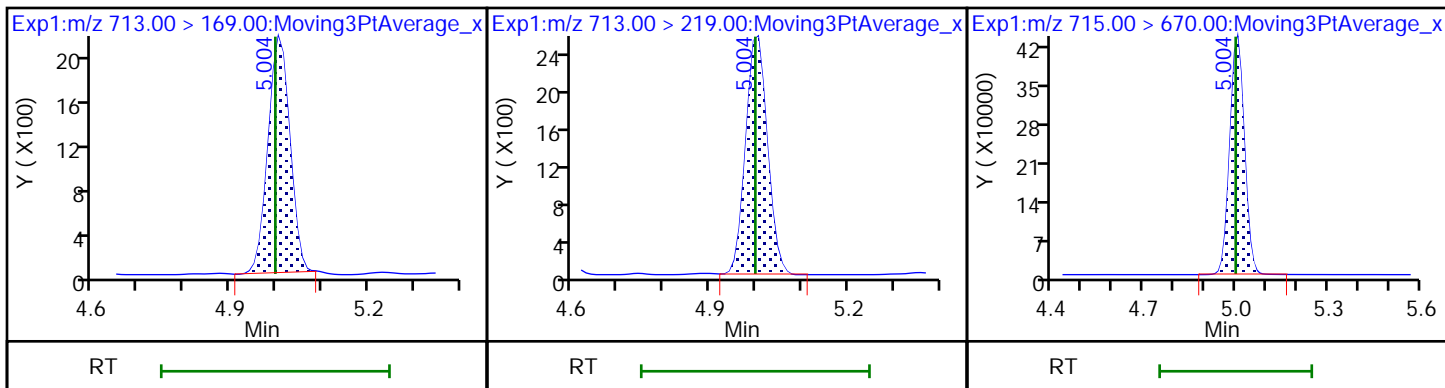
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

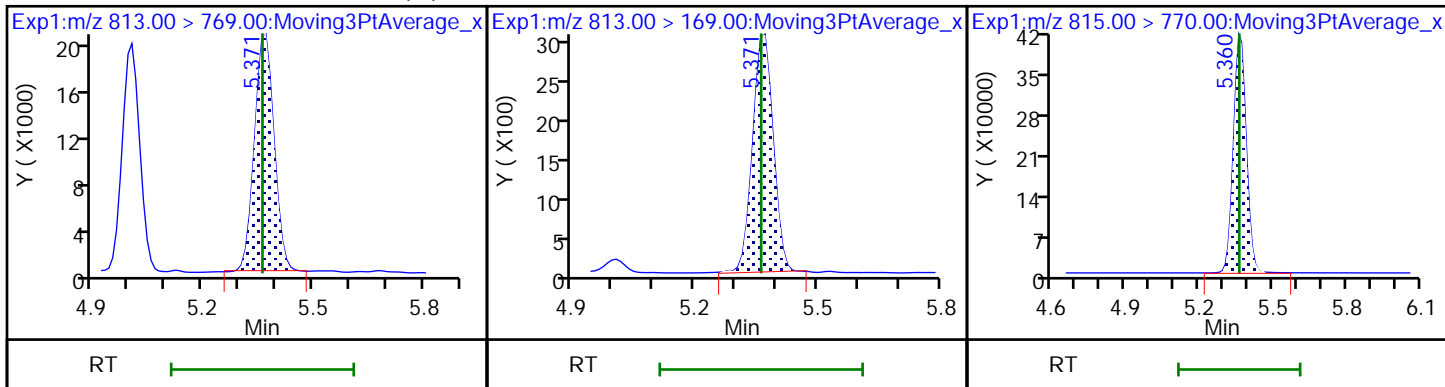
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

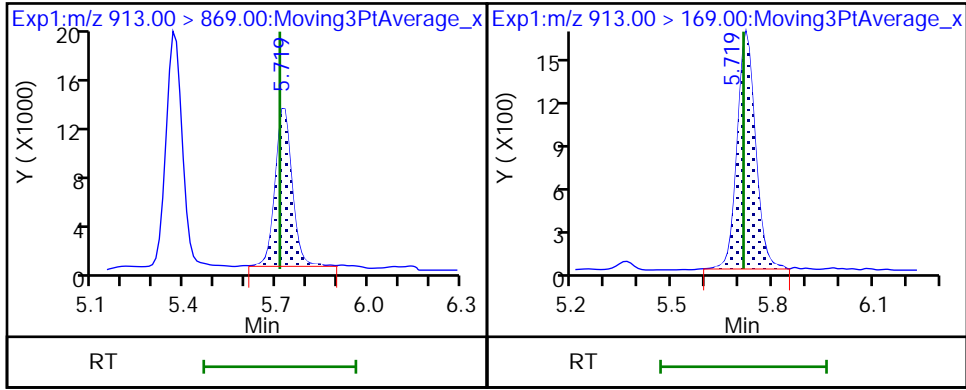
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

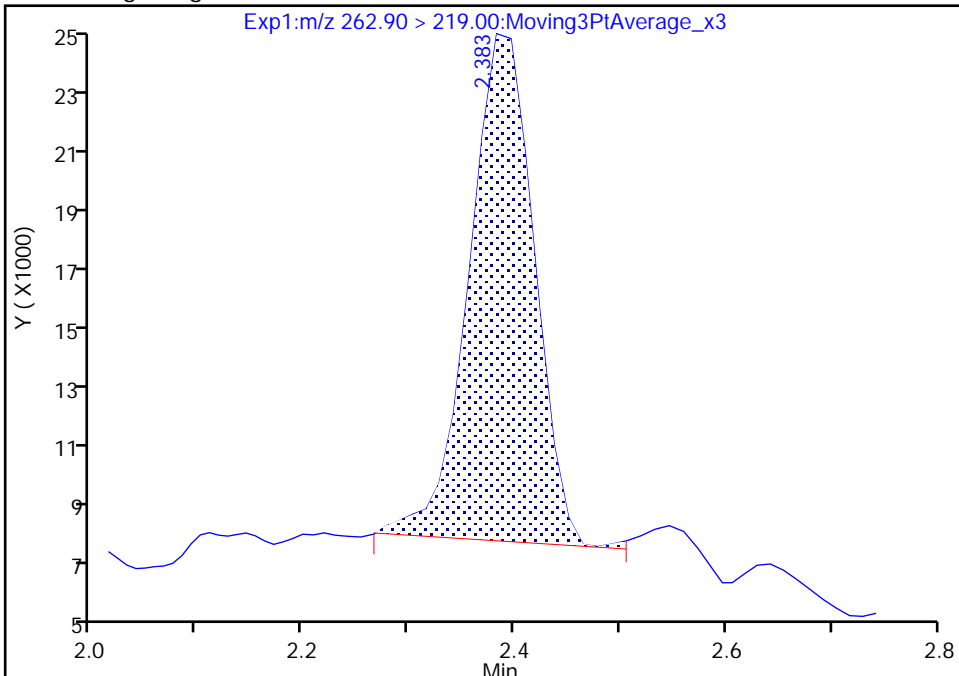
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

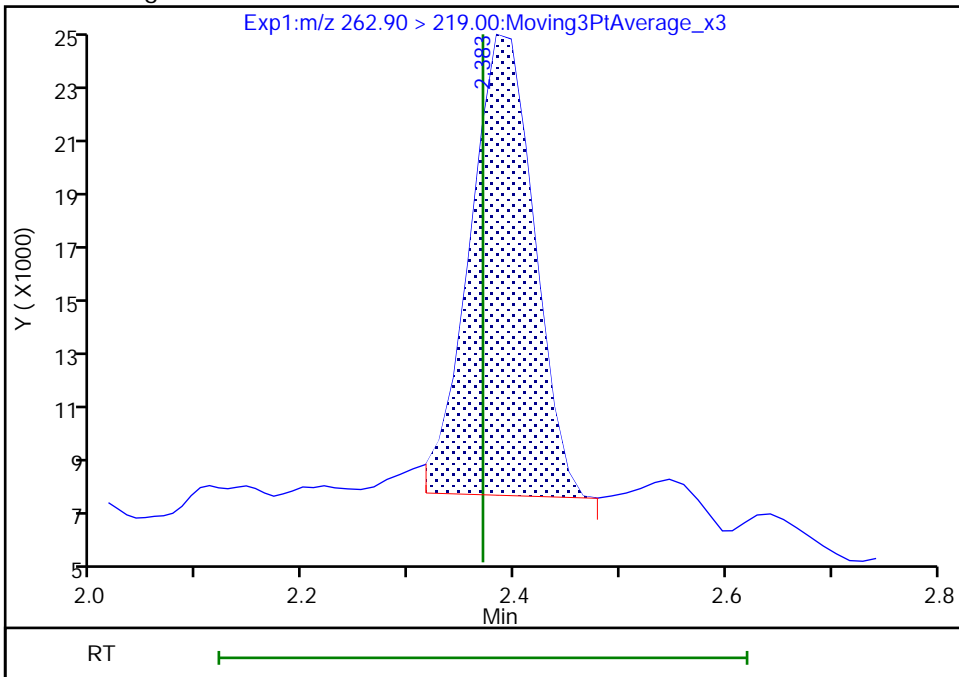
RT: 2.38
Area: 69351
Amount: 0.047317
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 68064
Amount: 0.046438
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:13:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

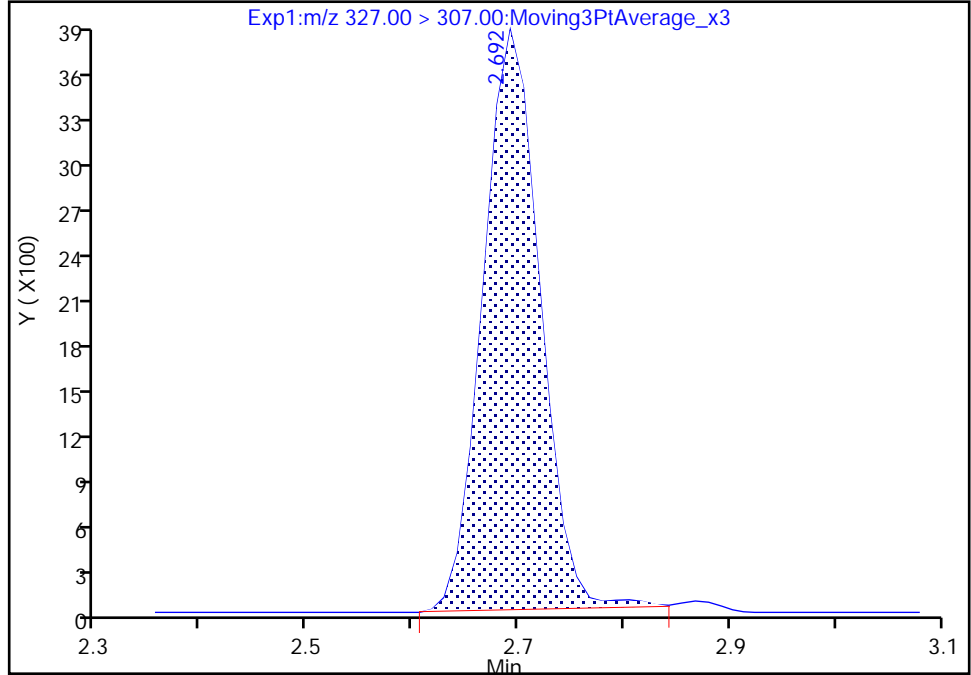
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

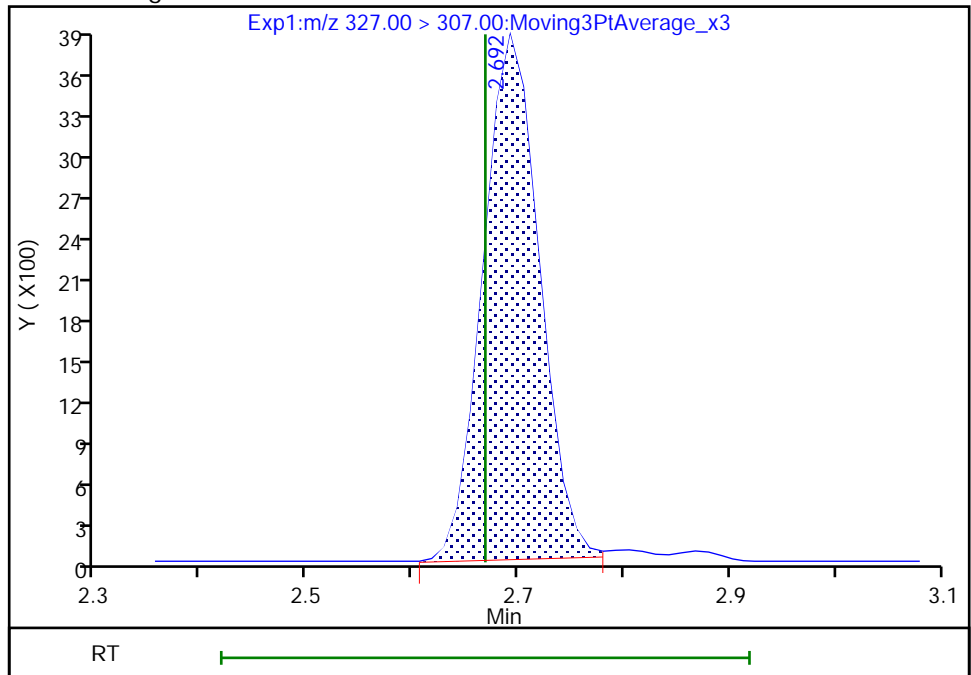
RT: 2.69
Area: 14298
Amount: 0.044845
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 14194
Amount: 0.044519
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

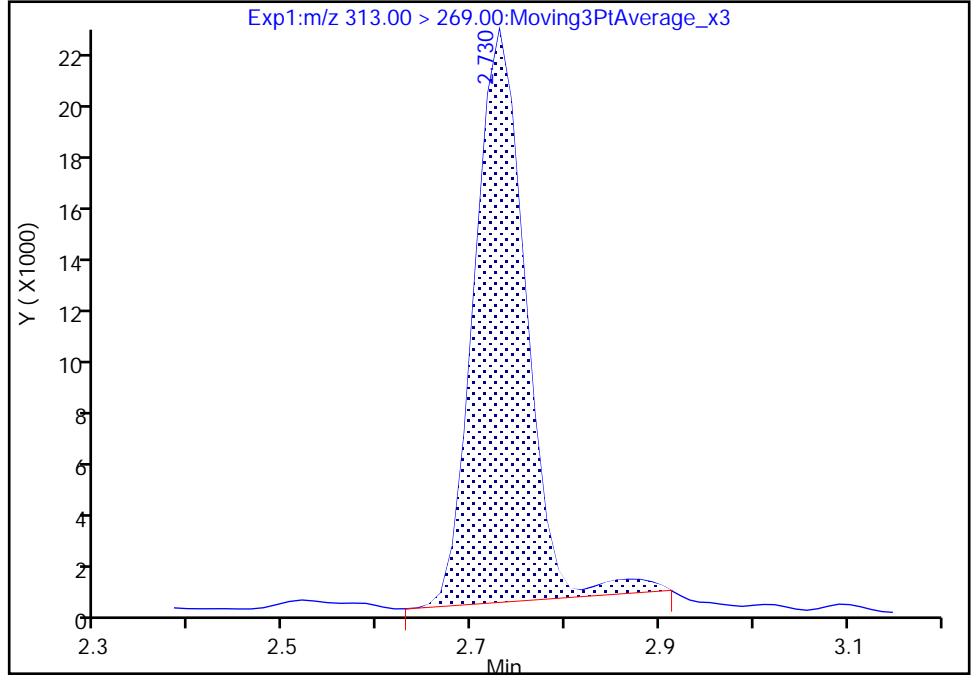
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

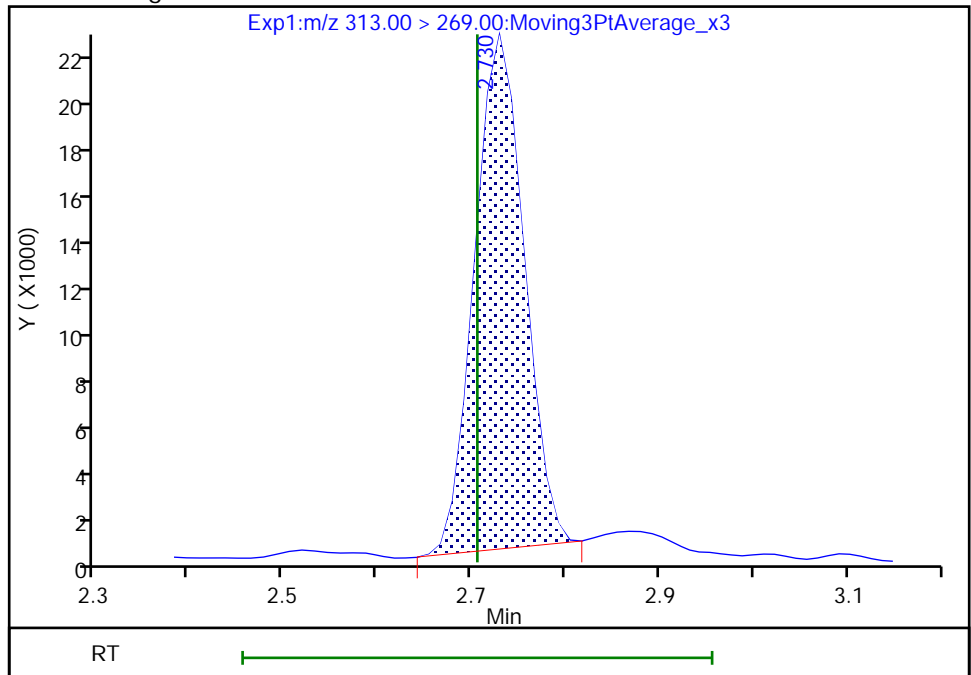
RT: 2.73
Area: 83137
Amount: 0.053829
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 79420
Amount: 0.051423
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

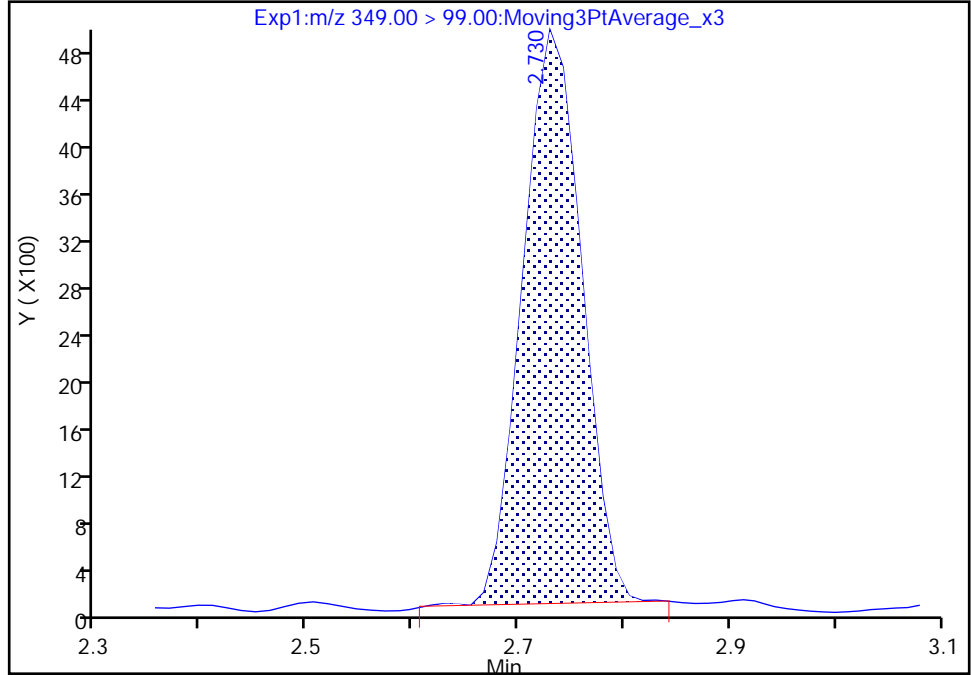
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

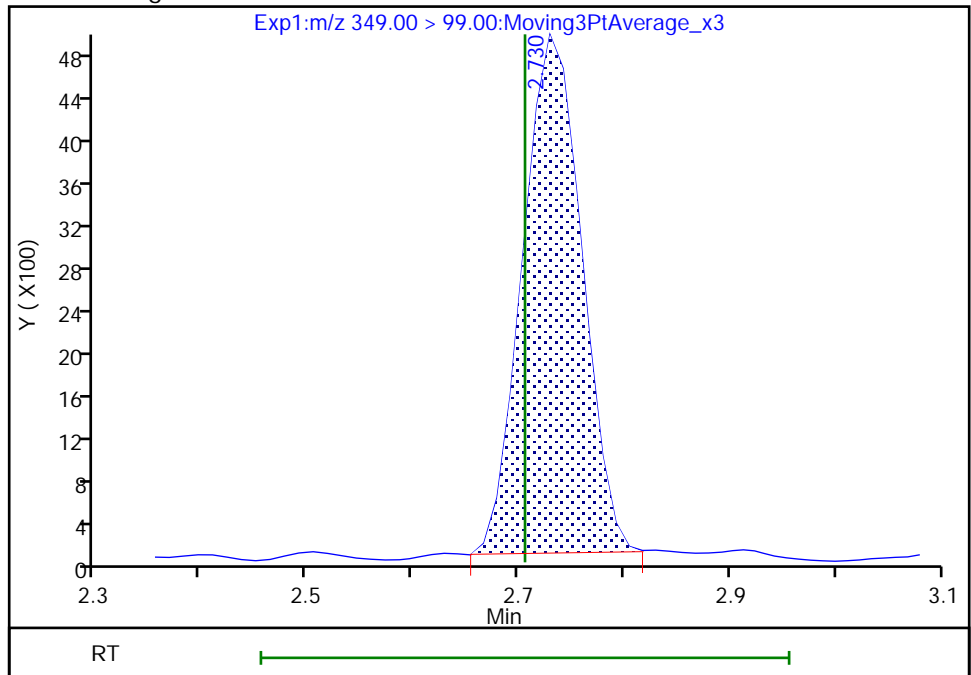
RT: 2.73
Area: 19245
Amount: 0.045044
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 19083
Amount: 0.045044
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

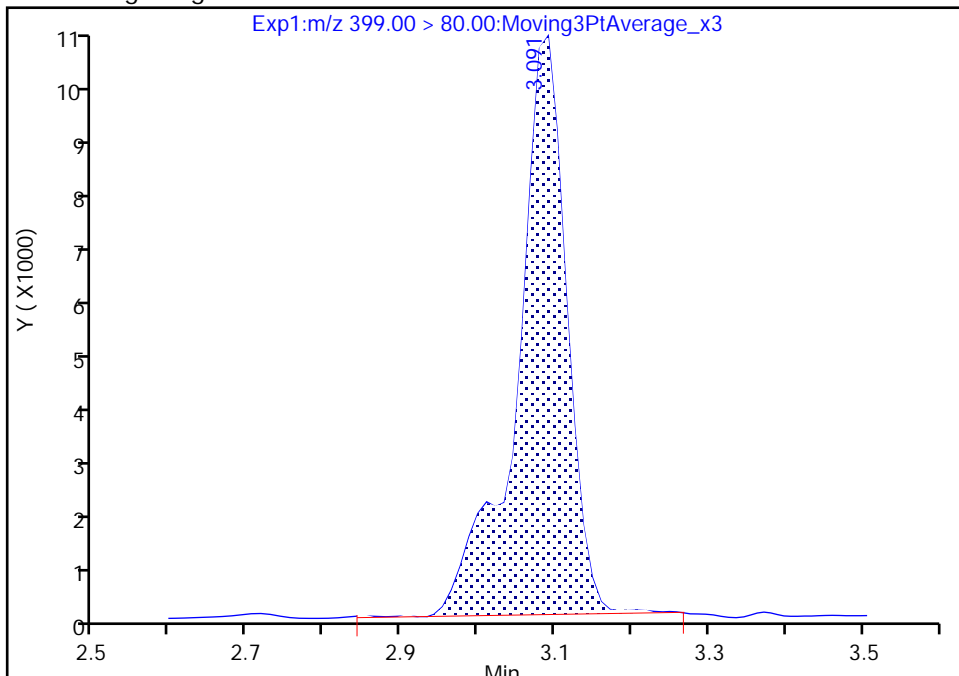
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

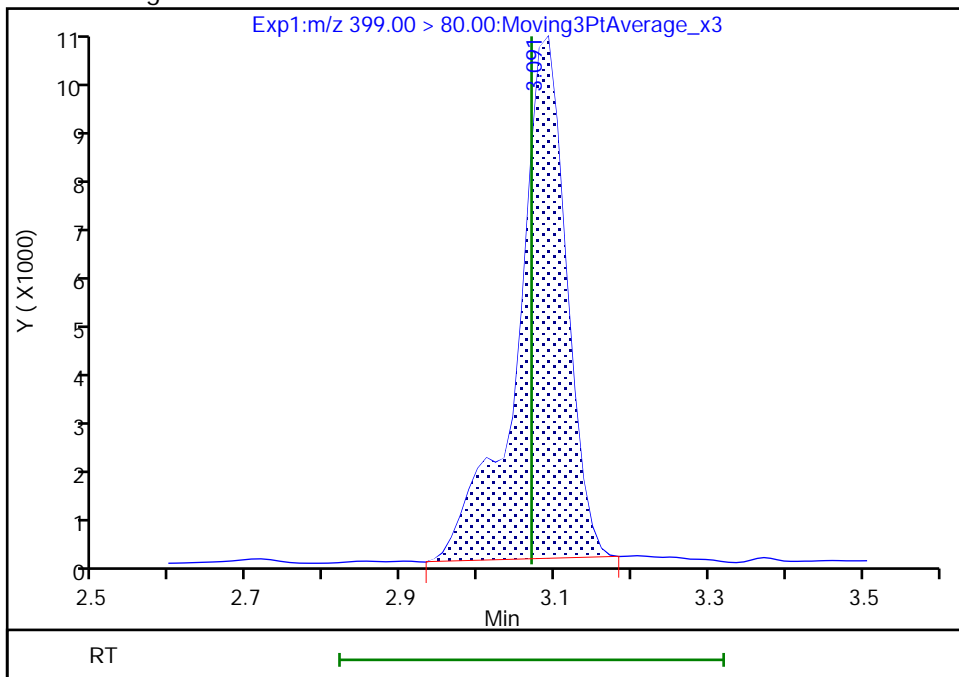
RT: 3.09
Area: 45084
Amount: 0.046198
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 44393
Amount: 0.045490
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

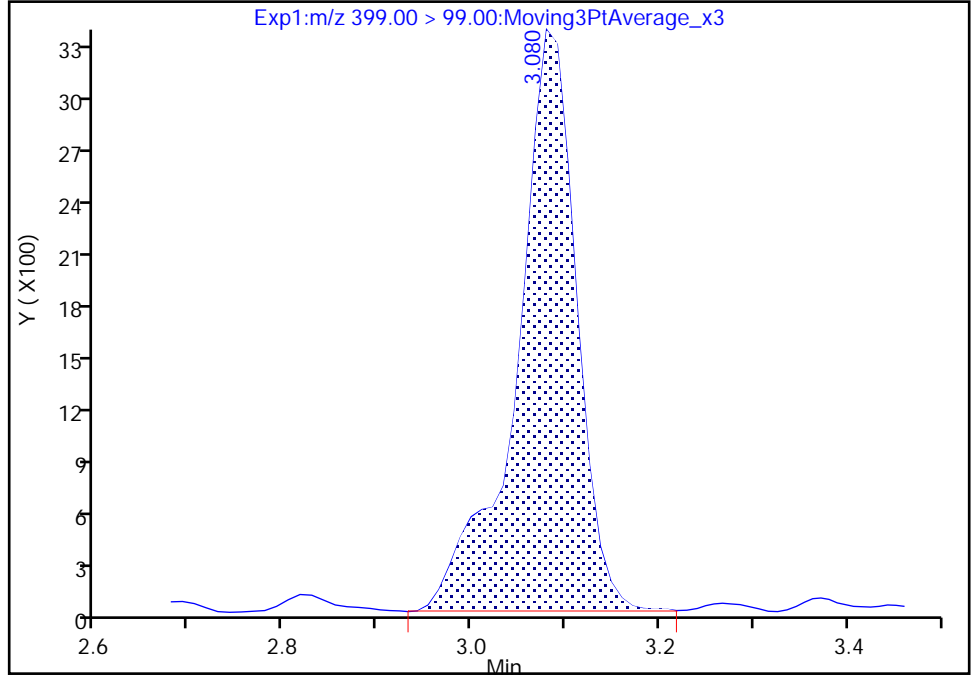
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

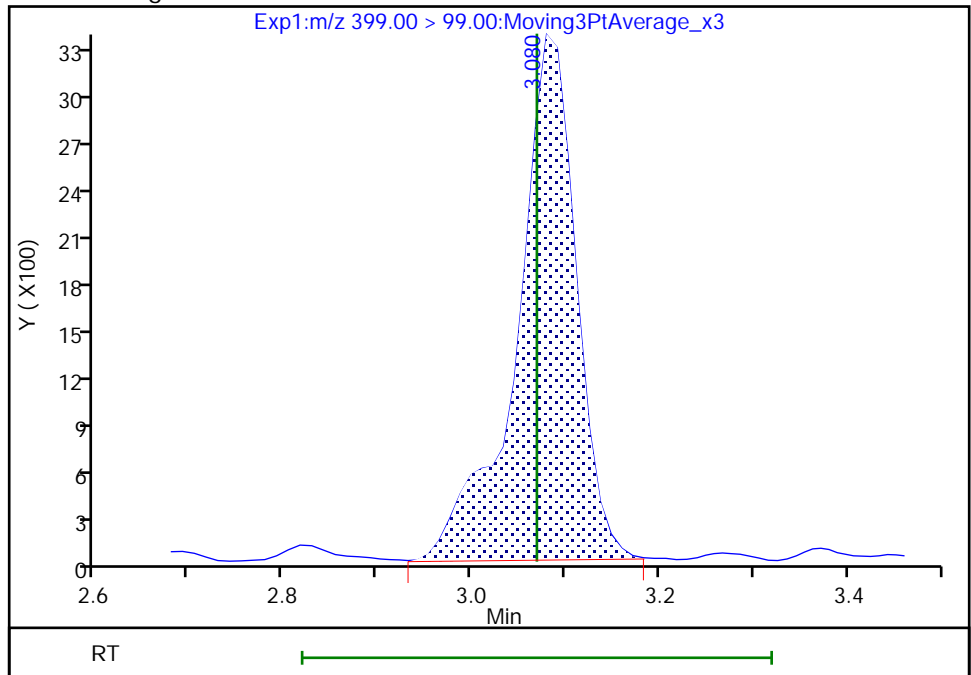
RT: 3.08
Area: 14673
Amount: 0.046198
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 14561
Amount: 0.045490
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:14:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

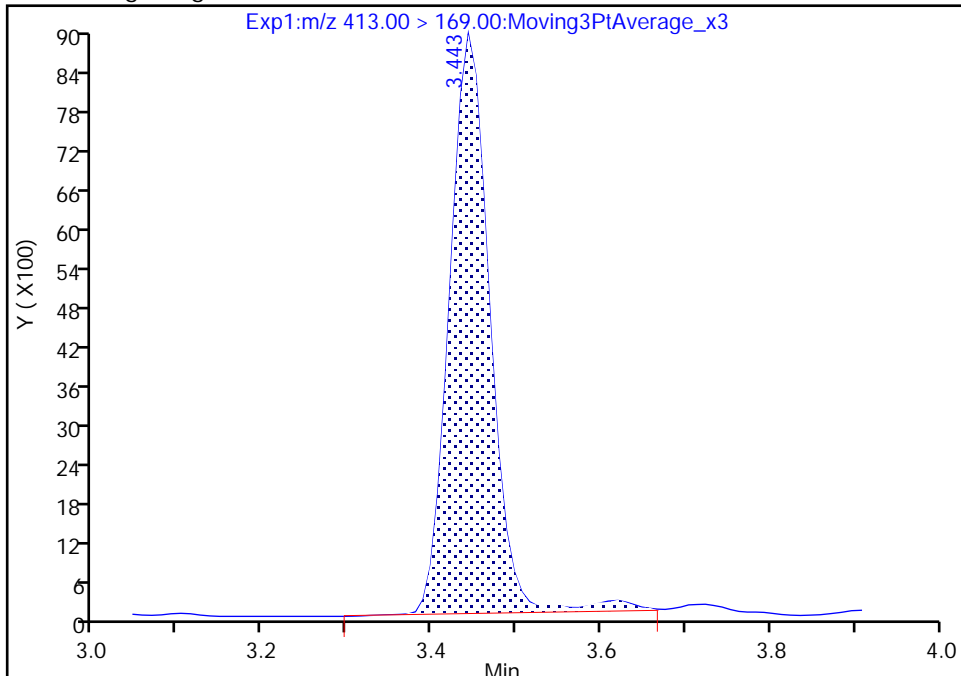
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

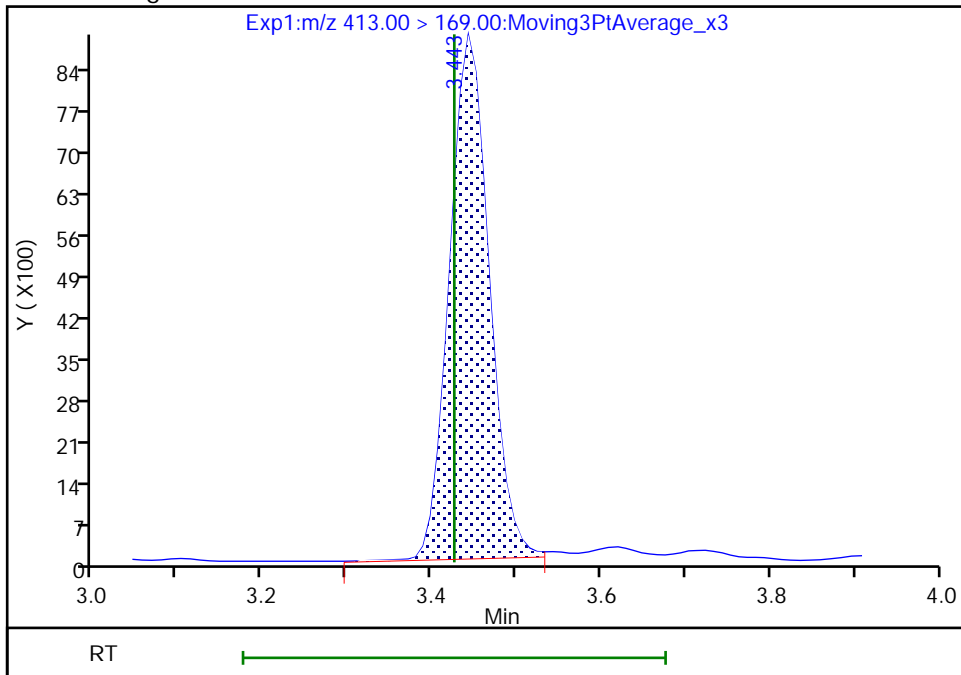
RT: 3.44
Area: 29538
Amount: 0.058188
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 28893
Amount: 0.057473
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

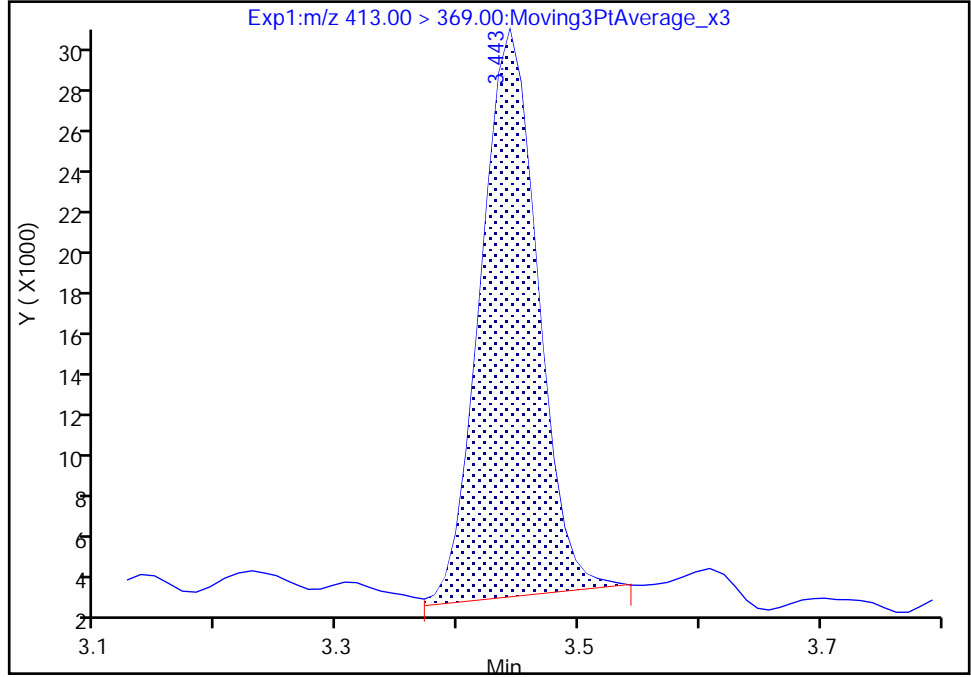
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

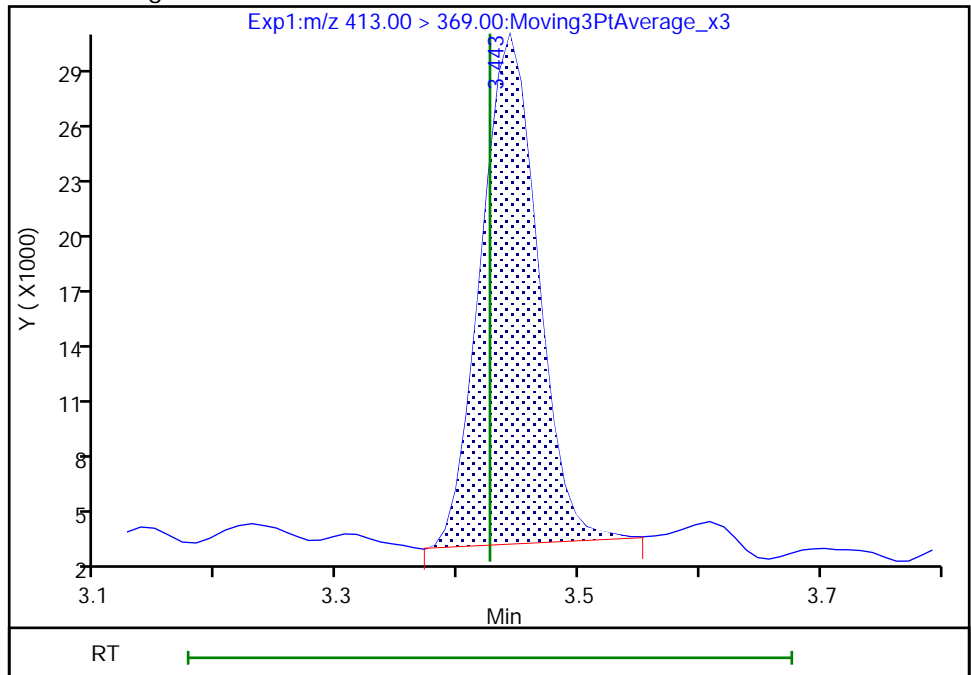
RT: 3.44
Area: 91253
Amount: 0.058188
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 90132
Amount: 0.057473
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

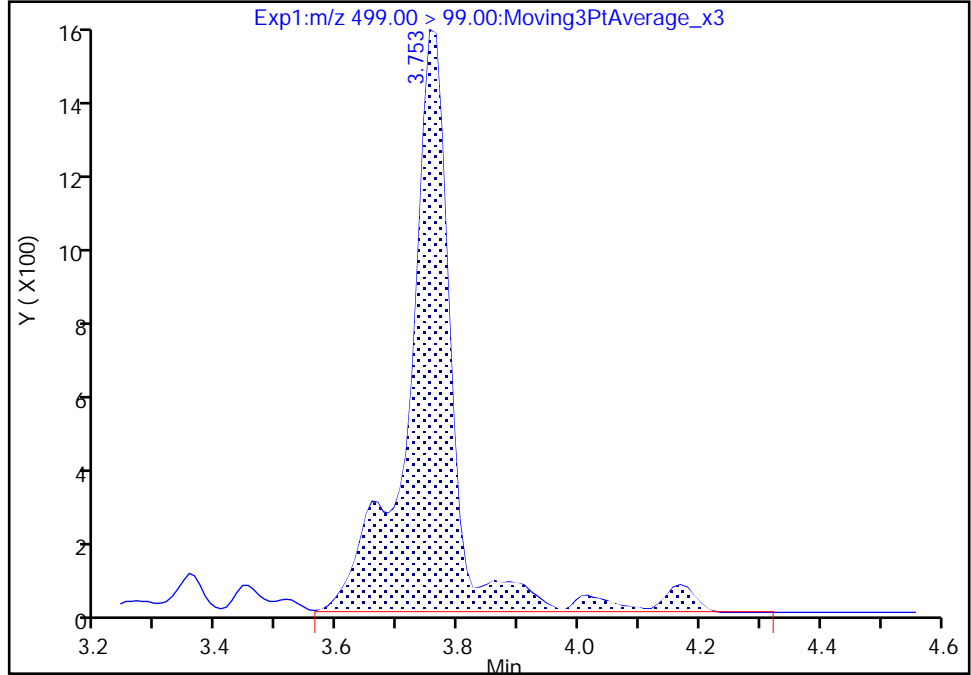
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

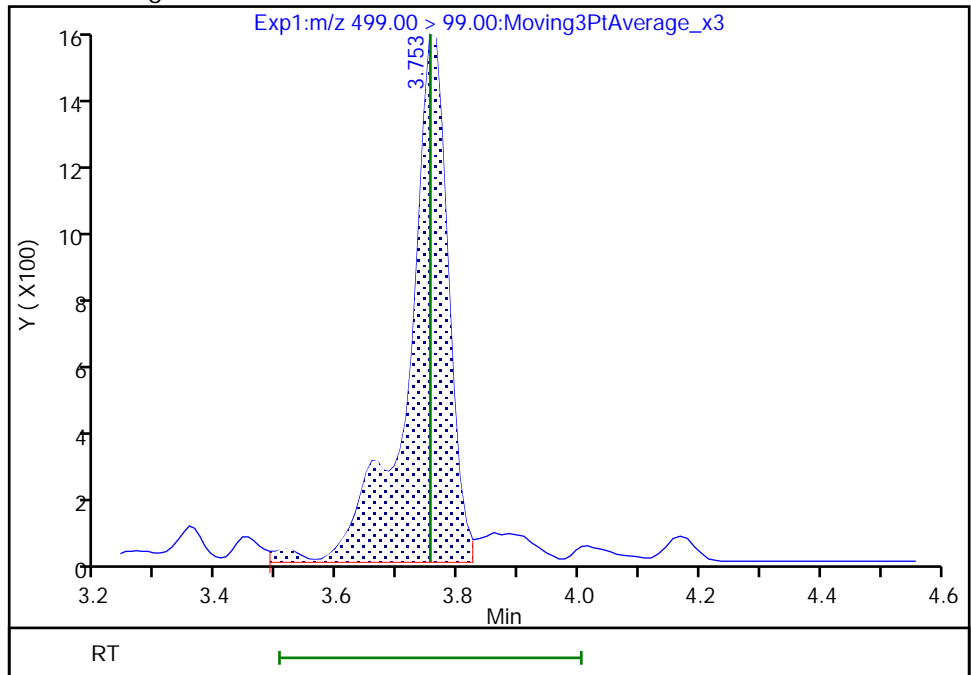
RT: 3.75
Area: 8326
Amount: 0.063008
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 7426
Amount: 0.053921
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

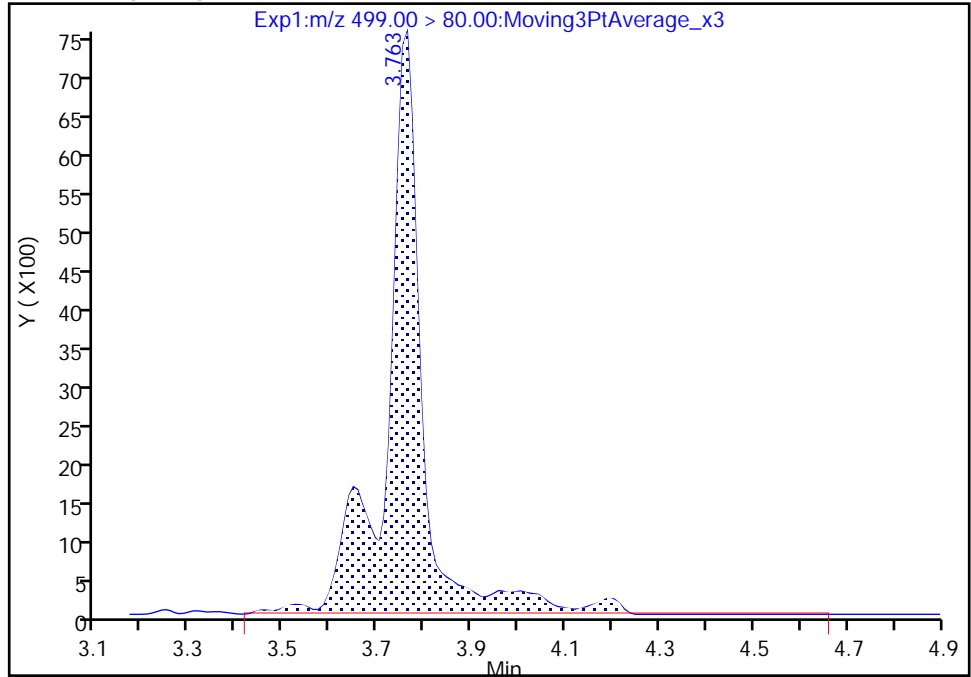
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

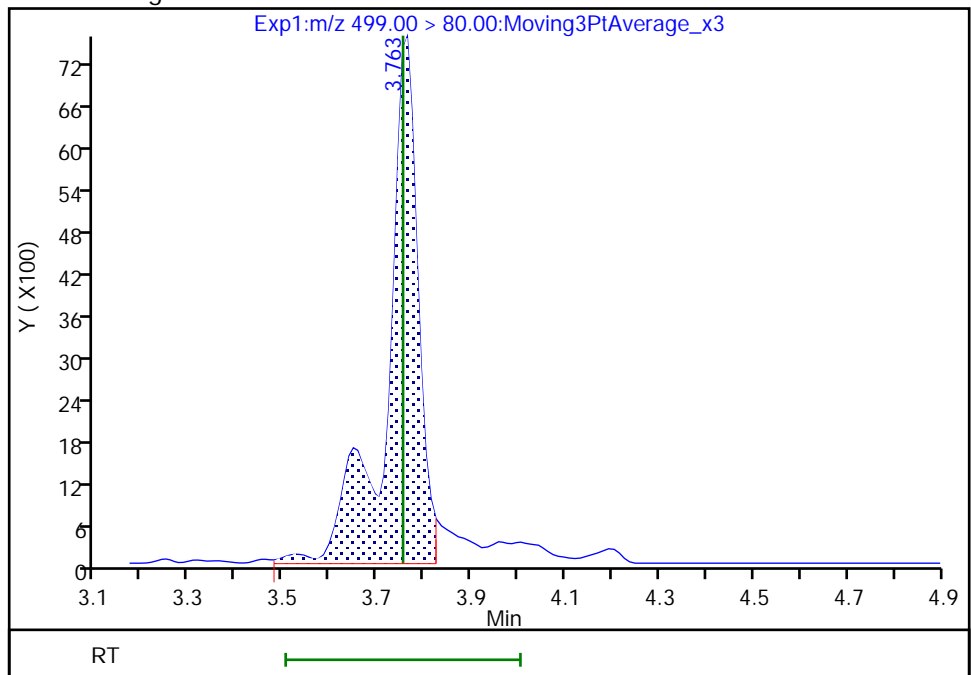
RT: 3.76
Area: 41182
Amount: 0.063008
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 35243
Amount: 0.053921
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:15:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

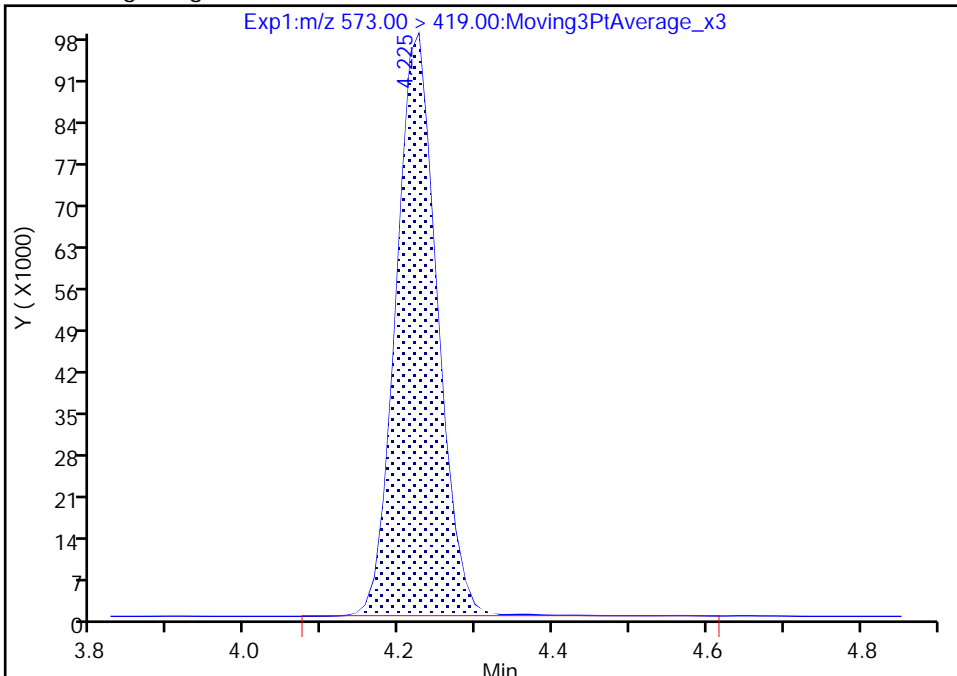
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

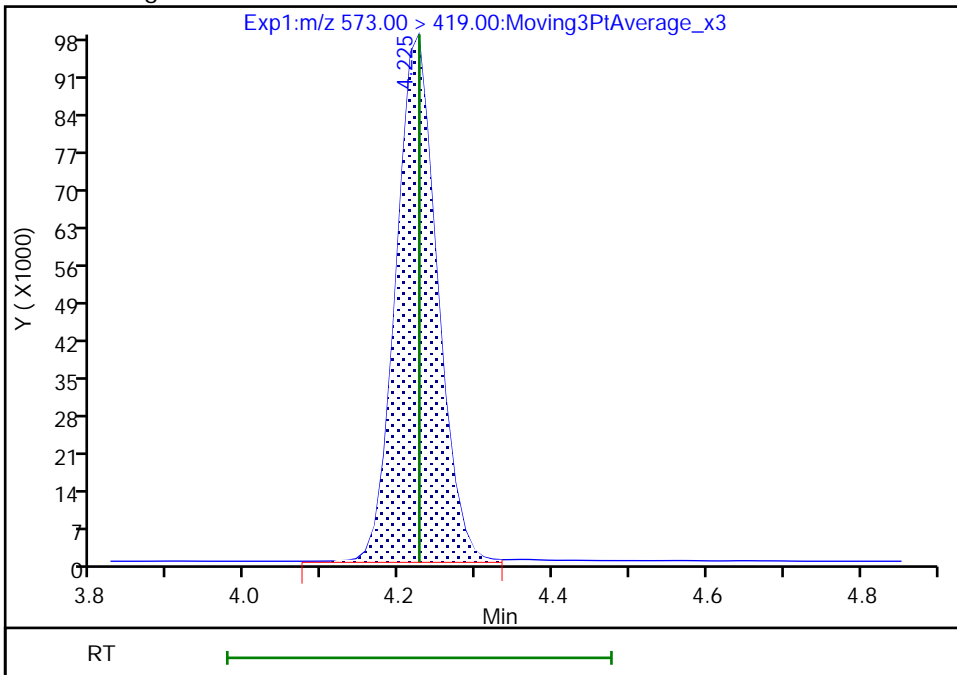
RT: 4.23
Area: 367991
Amount: 1.275544
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 365971
Amount: 1.268542
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:11:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

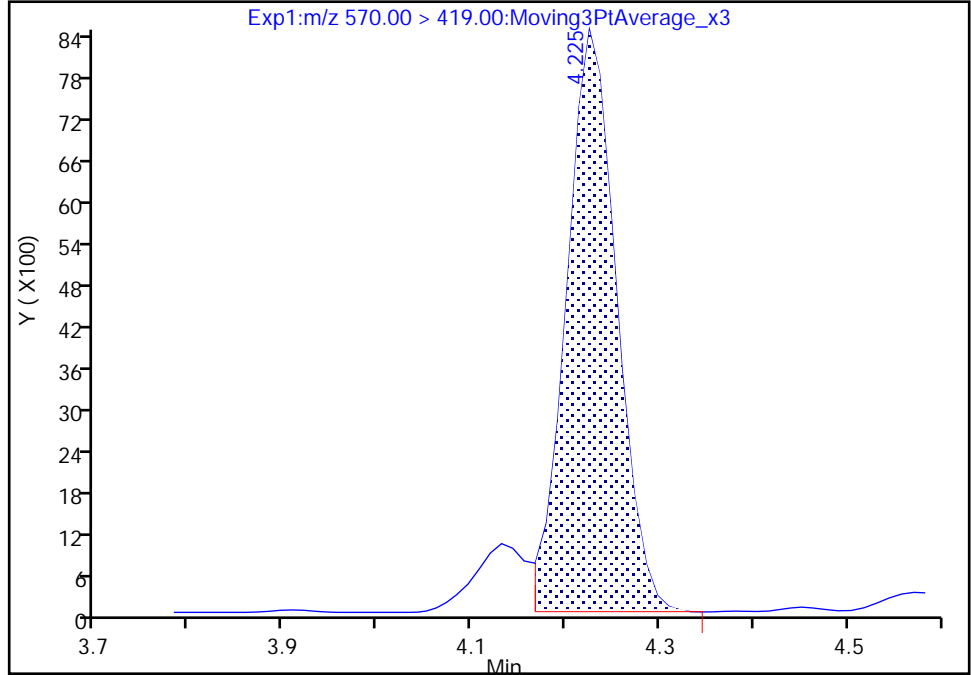
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

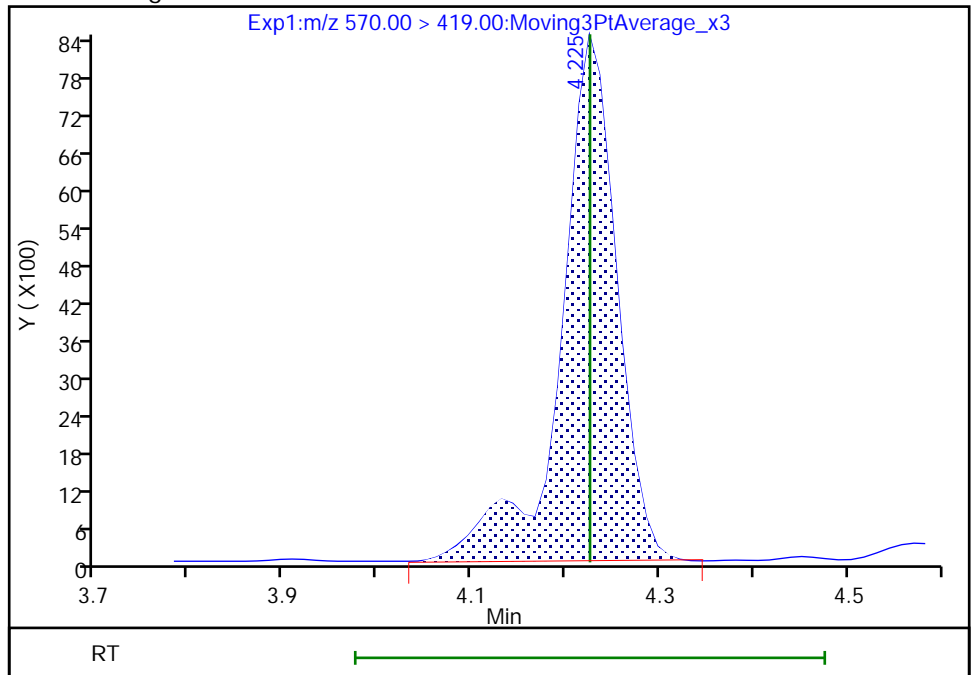
RT: 4.23
Area: 31317
Amount: 0.118635
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 35118
Amount: 0.133034
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

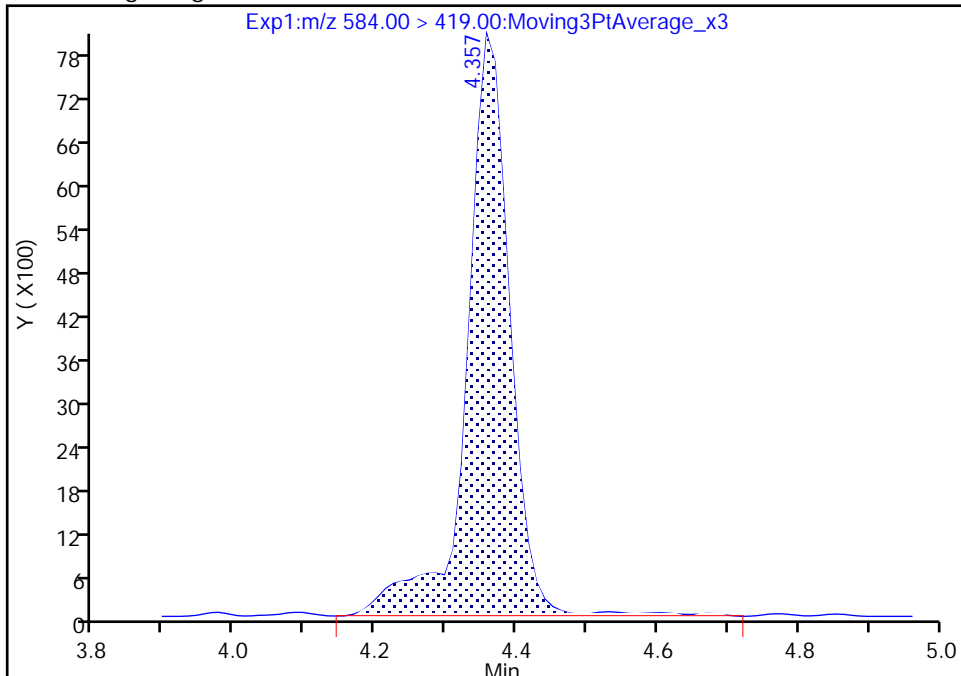
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

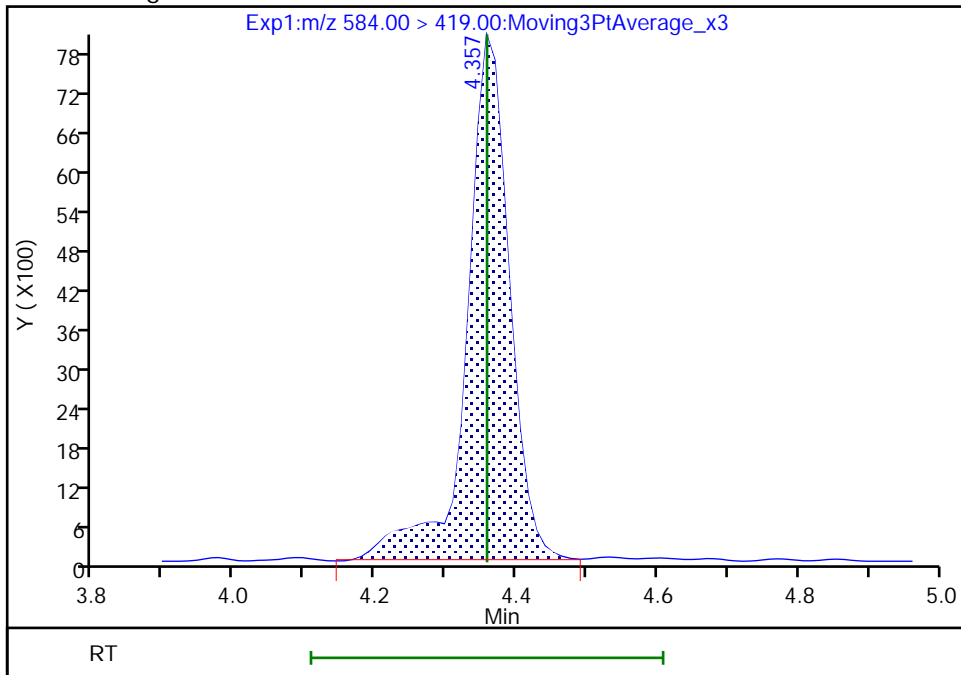
RT: 4.36
Area: 34564
Amount: 0.112945
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 33675
Amount: 0.110040
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

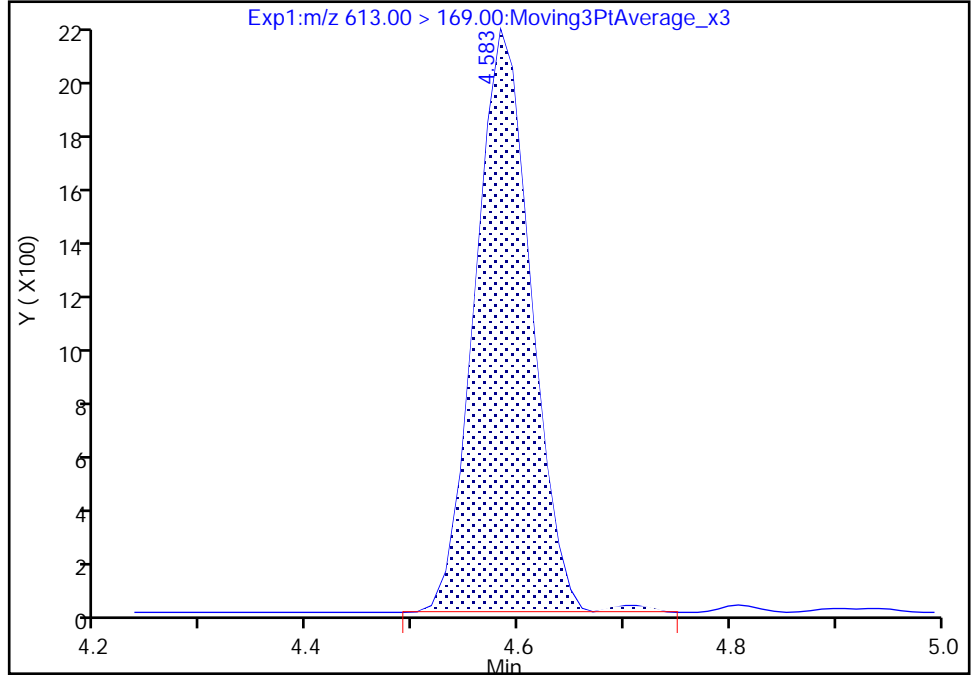
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

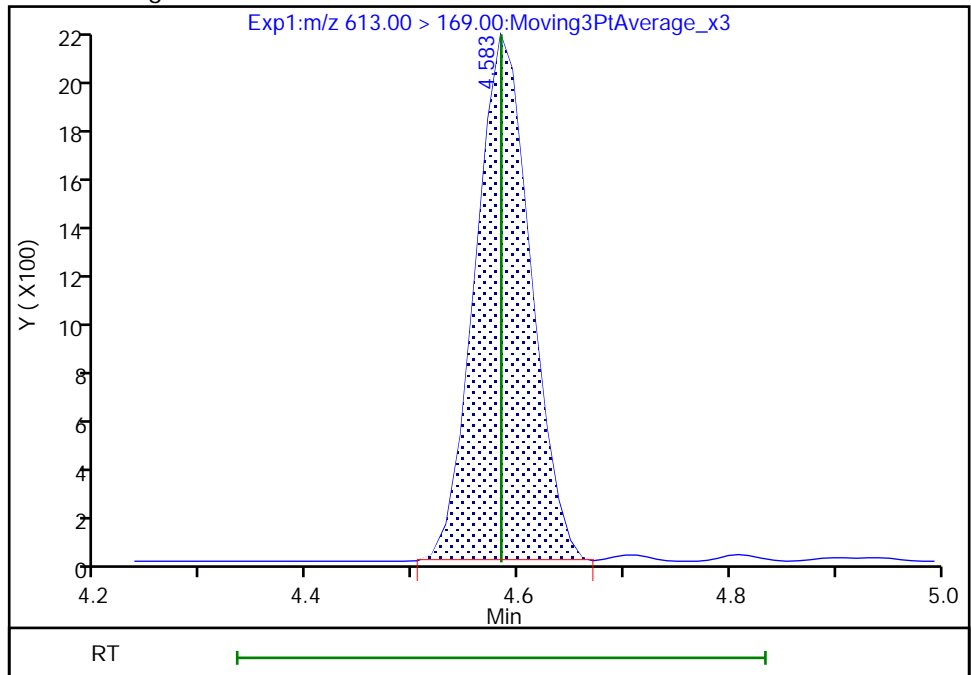
RT: 4.58
Area: 7831
Amount: 0.057879
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 7747
Amount: 0.057879
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

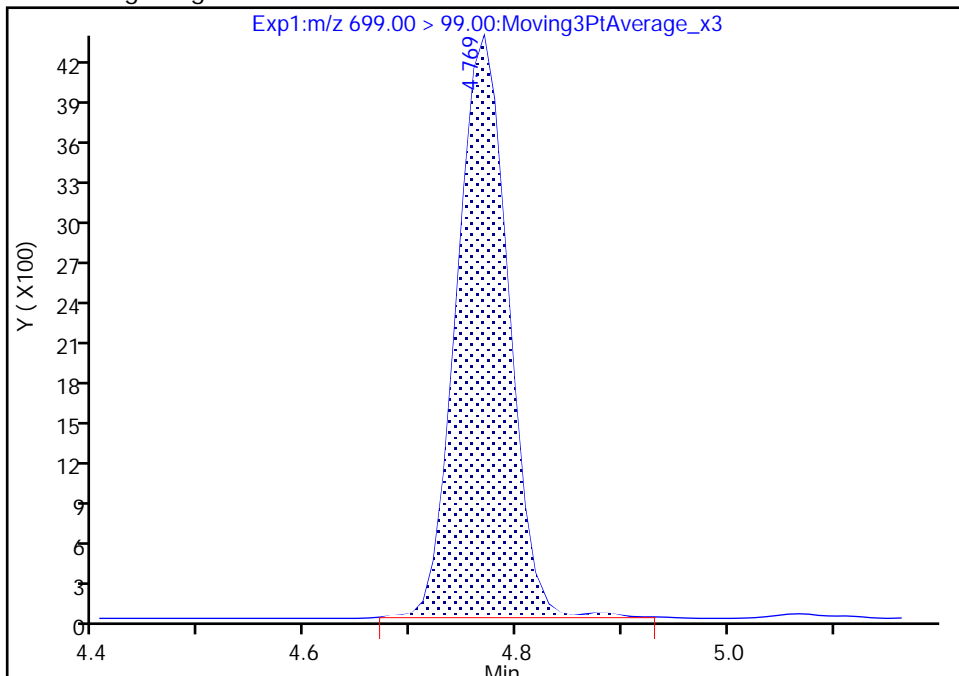
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

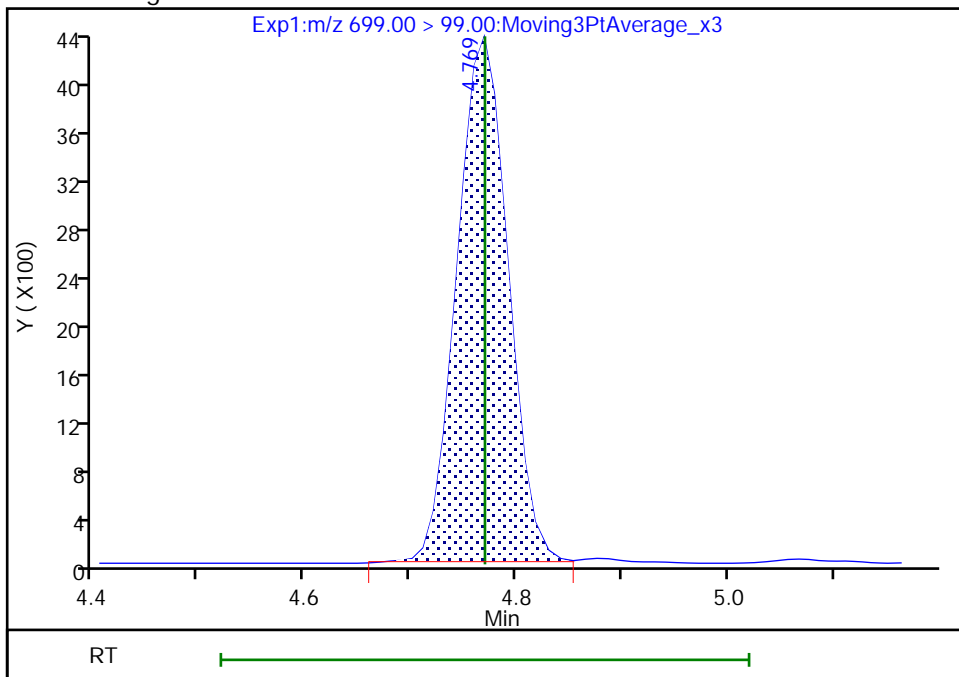
RT: 4.77
Area: 14488
Amount: 0.053175
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 14393
Amount: 0.053175
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

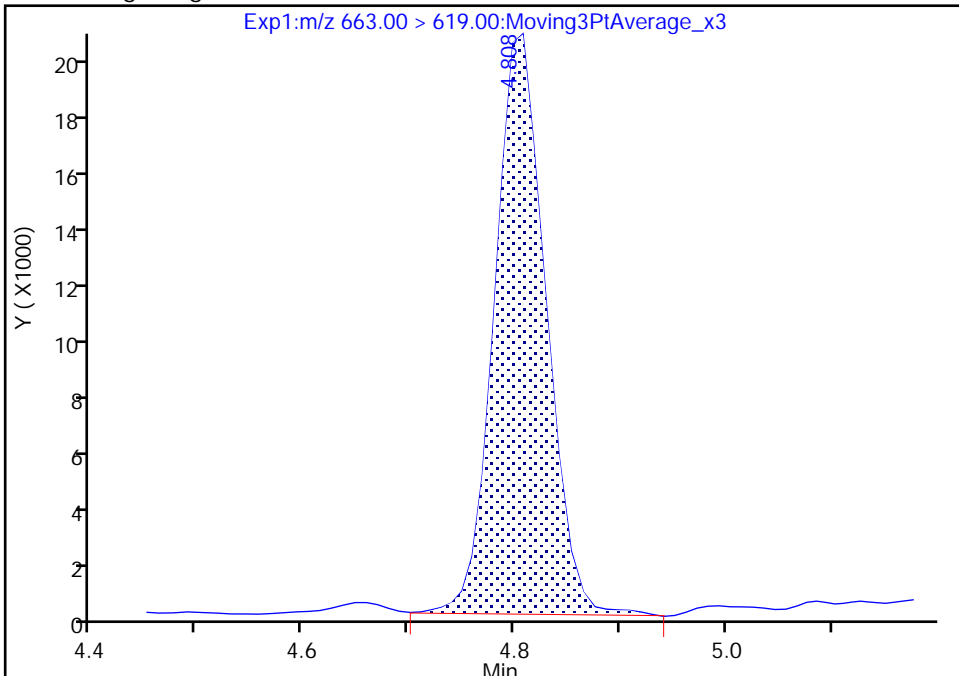
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

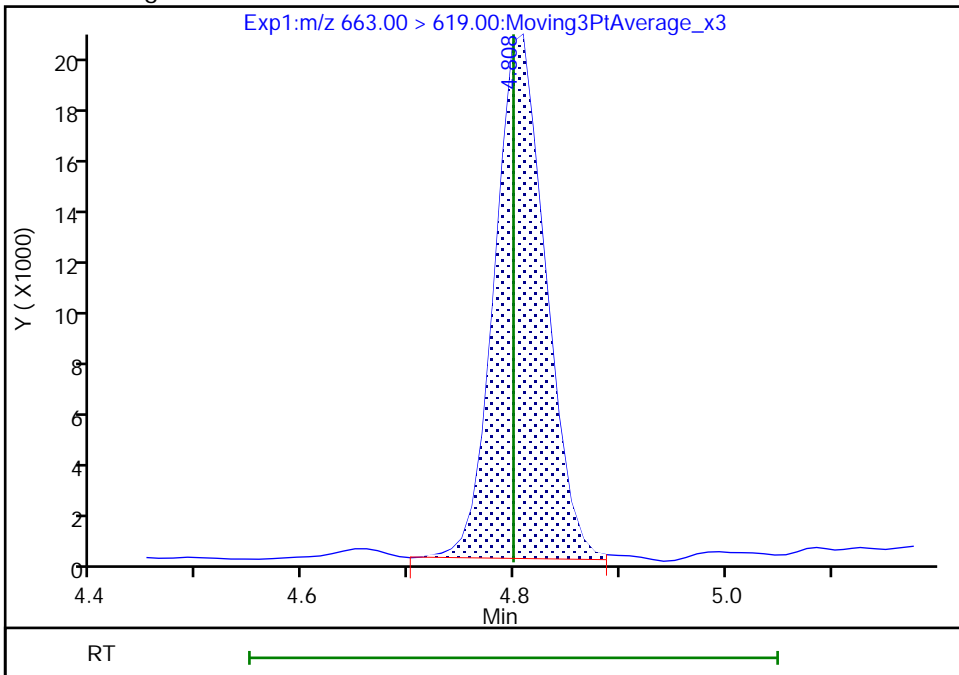
RT: 4.81
Area: 66657
Amount: 0.055921
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 66208
Amount: 0.055545
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:16:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

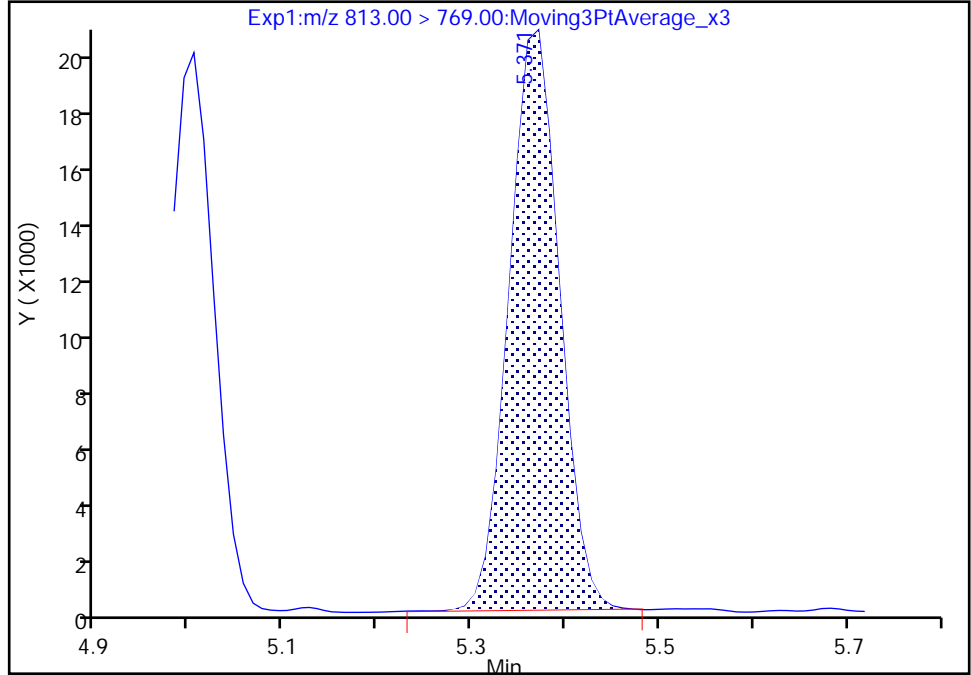
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

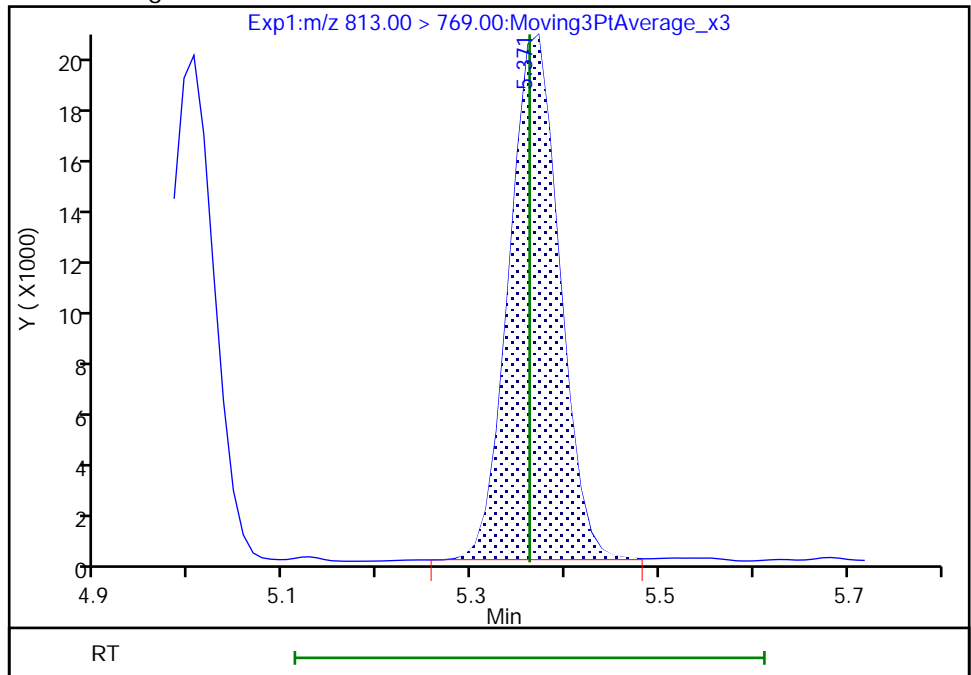
RT: 5.37
Area: 74261
Amount: 0.051026
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 74259
Amount: 0.051024
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:17:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

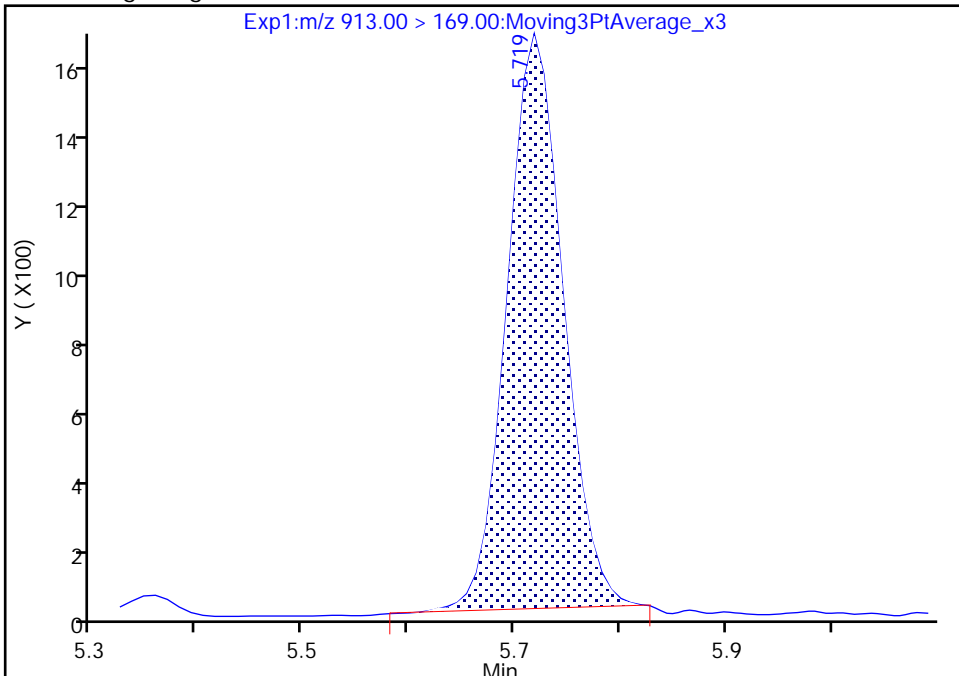
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

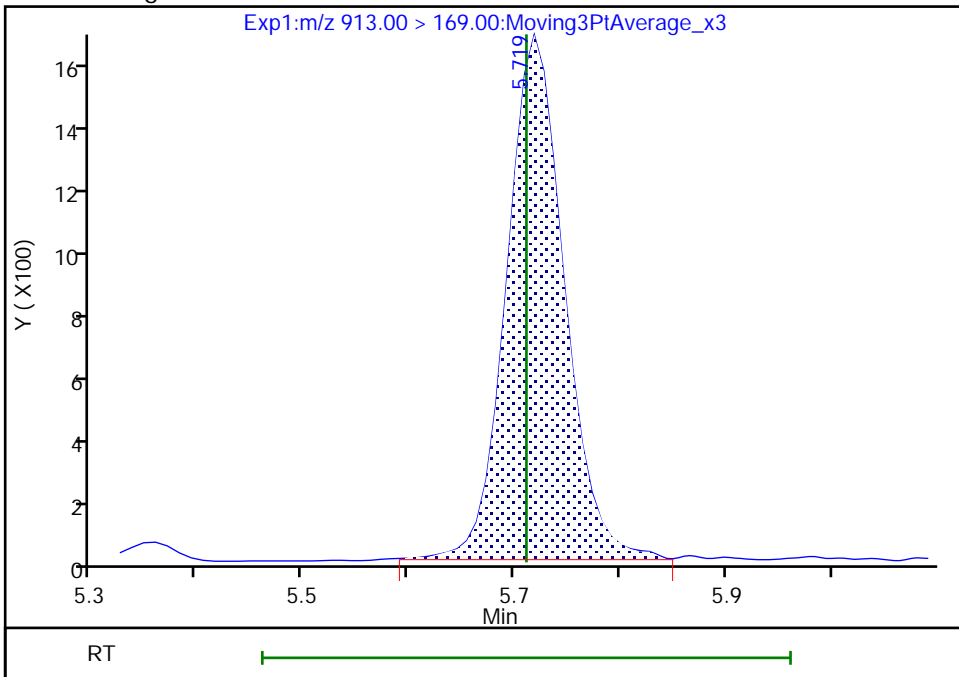
RT: 5.72
Area: 6159
Amount: 0.049448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 6332
Amount: 0.049955
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:33:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

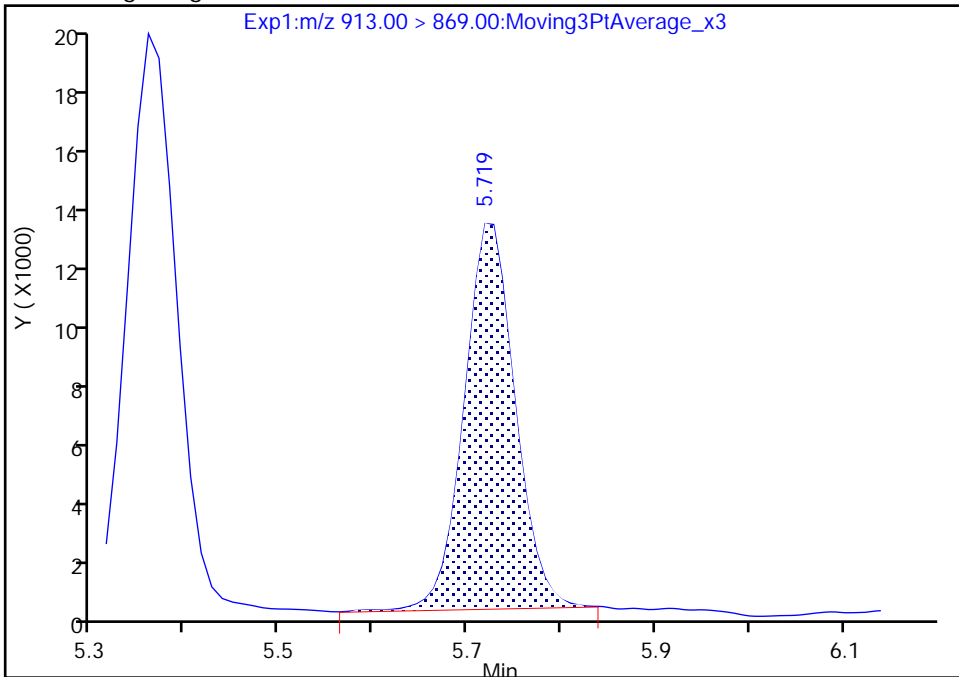
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A05.d
Injection Date: 26-Jan-2023 20:19:10 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

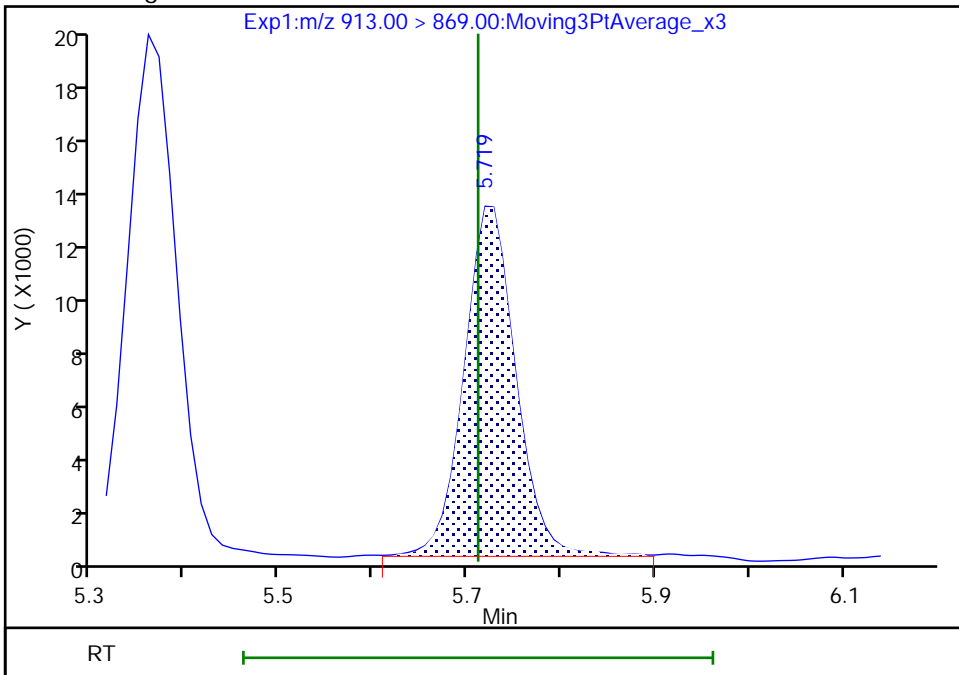
RT: 5.72
Area: 48729
Amount: 0.049448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 49228
Amount: 0.049955
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:33:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 622 of 950

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187884/20 Calibration Date: 01/26/2023 22:21
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	L2ID		0.8373		0.840	1.00	-16.0	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.145	0.9227		0.806	1.00	-19.4	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.071	0.9553		0.788	0.884	-10.8	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.959	2.764		0.872	0.934	-6.6	
Perfluorohexanoic acid (PFHxA)	AveID	1.054	1.014		0.962	1.00	-3.8	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.237	1.260		0.956	0.938	1.9	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.000	0.8319		0.832	1.00	-16.8	
Perfluoroheptanoic acid (PFHpA)	AveID	1.065	0.9455		0.888	1.00	-11.2	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.098	0.9784		0.811	0.910	-10.9	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.734	5.942		0.976	0.942	3.6	
6:2 FTS	AveID	2.290	2.278		0.943	0.948	-0.5	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.455	1.346		0.880	0.952	-7.5	
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.089		1.00	1.00	0.0	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.138		0.870	0.928	-6.3	
Perfluorononanoic acid (PFNA)	AveID	1.022	1.009		0.988	1.00	-1.2	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.900	2.939		0.945	0.932	1.3	
Perfluorononanesulfonic acid (PFNS)	AveID	1.009	0.8653		0.823	0.960	-14.2	
Perfluorodecanoic acid (PFDA)	AveID	1.069	0.9342		0.874	1.00	-12.6	
8:2 FTS	AveID	1.814	1.864		0.984	0.958	2.7	
Perfluorooctanesulfonamide (FOSA)	AveID	1.006	0.8838		0.879	1.00	-12.1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9016	0.9271		1.03	1.00	2.8	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7521	0.7118		0.912	0.964	-5.4	
Perfluoroundecanoic acid (PFUnA)	AveID	1.092	0.8859		0.812	1.00	-18.8	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9291	0.8442		0.909	1.00	-9.1	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.488	5.017		1.05	0.942	11.8	
Perfluorododecanoic acid (PFDoA)	AveID	1.018	0.9218		0.905	1.00	-9.5	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	1.147	1.267		1.07	0.964	10.5	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3055	0.2824		0.895	0.968	-7.6	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187884/20 Calibration Date: 01/26/2023 22:21
 Instrument ID: LC812 Calib Start Date: 01/11/2023 17:43
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 01/11/2023 18:23
 Lab File ID: PA230126A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.017	1.050		1.03	1.00	3.3	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1249	0.1073		0.860	1.00	-14.0	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9124		0.984	1.00	-1.6	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8088	0.7896		0.976	1.00	-2.4	
13C4 PFBA	Ave	1.150	1.270		1.38	1.25	10.4	
13C5 PFPeA	Ave	0.9294	1.022		1.37	1.25	9.9	
13C3 PFBS	Ave	1.020	1.009		1.15	1.16	-1.1	
M2-4:2 FTS	Ave	0.0825	0.0814		1.15	1.17	-1.3	
13C2 PFHxA	Ave	0.9657	1.008		1.31	1.25	4.4	
13C3 HFPO-DA	Ave	0.1673	0.1638		1.22	1.25	-2.1	
13C4 PFHpA	Ave	0.9669	0.9932		1.28	1.25	2.7	50.0
18O2 PFHxS	Ave	0.7424	0.6417		1.02	1.18	-13.6	50.0
M2-6:2 FTS	Ave	0.1170	0.1238		1.26	1.19	5.7	
13C4 PFOA	Ave	1.024	1.031		1.26	1.25	0.7	50.0
13C4 PFOS	Ave	0.4514	0.4160		1.10	1.20	-7.8	50.0
13C5 PFNA	Ave	0.998	1.057		1.32	1.25	6.0	50.0
13C2 PFDA	Ave	1.024	1.135		1.39	1.25	10.9	
M2-8:2 FTS	Ave	0.1466	0.1553		1.27	1.20	5.9	
13C8 FOSA	Ave	0.8320	0.8688		1.31	1.25	4.4	
d3-NMeFOSAA	Ave	0.2013	0.2364		1.47	1.25	17.5	
13C2 PFUnA	Ave	0.8836	0.9691		1.37	1.25	9.7	
d5-NEtFOSAA	Ave	0.1934	0.2392		1.55	1.25	23.7	
13C2 PFDoA	Ave	0.8860	0.9299		1.31	1.25	5.0	
13C2 PFTeDA	Ave	0.7620	0.9411		1.54	1.25	23.5	
13C2 PFHxDA	Ave	0.9339	0.9147		1.22	1.25	-2.1	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Jan-2023 22:21:31 ALS Bottle#: 17 Worklist Smp#: 20
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0054135-020 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:40:09 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620
 First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:48:46
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.074	2.094	-0.020	0.603	2092396	1.38	110	23048	
2 Perfluorobutanoic acid	212.90 > 169.00	2.083	2.094	-0.011	1.004	1401566	0.8404	84.0	184	
D 3 13C5 PFPeA	267.90 > 223.00	2.390	2.370	0.020	0.694	1683860	1.37	110	8158	
4 Perfluoropentanoic acid	262.90 > 219.00	2.390	2.370	0.020	1.000	1242960	0.8057	80.6	42.9	M
D 47 13C3 PFBS	301.90 > 80.00	2.403	2.384	0.019	0.698	1546829	1.15	98.9	178911	M
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.403	2.384	0.019	1.000	1123685	0.7883	Target=2.10	89.2	2771
	298.90 > 99.00	2.403	2.384	0.019	1.000	515993	2.18(1.05-3.15)		668	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.698	2.669	0.029	1.005	277024	0.8723	93.4	3634	
D 60 M2-4:2 FTS	329.00 > 81.00	2.685	2.669	0.016	0.780	125295	1.15	98.7	224	M
D 7 13C2 PFHxA	315.00 > 270.00	2.735	2.694	0.041	0.795	1661743	1.31	104	5763	
6 Perfluorohexanoic acid	313.00 > 269.00	2.723	2.706	0.017	0.995	1347548	0.9621	Target=13.16	96.2	317
	313.00 > 119.00	2.735	2.706	0.029	1.000	95958	14.04(6.58-19.74)		235	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.735	2.706	0.029	0.886	999995	0.9555	Target=2.90	102	2126
	349.00 > 99.00	2.735	2.706	0.029	0.886	350196	2.86(1.45-4.35)		1281	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.835	2.806	0.029	1.000	179678	0.8322	83.2	5739	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.806	0.029	0.824	269993	1.22		97.9	4534	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.069	0.018	0.897	1000506	1.02		86.4	3711	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.087	3.069	0.018	1.000	753351	0.8112	Target=3.18	89.1	1790	M
399.00 > 99.00	3.087	3.069	0.018	1.000	246157		3.06(1.59-4.77)		677	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.069	0.018	0.897	1636867	1.28		103	8654	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.087	3.069	0.018	1.000	1238099	0.8878	Target=4.10	88.8	286	M
363.00 > 169.00	3.087	3.069	0.018	1.000	344469		3.59(2.05-6.16)		1374	
77 DONA										
377.00 > 251.00	3.122	3.104	0.018	0.832	3069721	0.9760	Target=2.96	104	2766	
377.00 > 85.00	3.122	3.104	0.018	0.832	961466		3.19(1.48-4.44)		2512	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.417	0.015	0.997	193771	1.26		106	995	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.432	3.417	0.015	1.000	352424	0.9432		99.5	807	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.432	3.417	0.015	0.915	702671	0.8805	Target=4.59	92.5	2313	M
449.00 > 99.00	3.432	3.417	0.015	0.915	156228		4.50(2.30-6.89)		1276	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.426	0.015	1.000	1699345	1.26		101	7715	
* 62 13C2 PFOA										
415.00 > 370.00	3.441	3.426	0.015		1648139	1.25			3746	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.441	3.426	0.015	1.000	1480024	1.00	Target=2.71	100	135	M
413.00 > 169.00	3.441	3.426	0.015	1.000	469635		3.15(1.36-4.07)		1214	M
D 18 13C4 PFOS										
503.00 > 80.00	3.751	3.754	-0.003	1.090	655404	1.10		92.2	2575	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.751	3.754	-0.003	1.000	579350	0.8695	Target=4.23	93.7	727	M
499.00 > 99.00	3.751	3.754	-0.003	1.000	129723		4.47(2.11-6.34)		730	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.771	3.774	-0.003	1.000	1406871	0.9878	Target=8.78	98.8	305	
463.00 > 169.00	3.771	3.774	-0.003	1.000	159038		8.85(4.39-13.17)		2585	
D 19 13C5 PFNA										
468.00 > 423.00	3.771	3.774	-0.003	1.096	1742732	1.32		106	7111	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.919	3.922	-0.003	1.045	1502310	0.9446		101	6856	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.049	4.043	0.006	1.080	455588	0.8233	Target=2.37	85.8	2951	
549.00 > 99.00	4.040	4.043	-0.003	1.077	198339		2.30(1.18-3.55)		1443	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.074	-0.003	1.183	1871122	1.39		111	9752	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.071	4.074	-0.003	1.000	1398344	0.8737	Target=11.13	87.4	523	
513.00 > 169.00	4.071	4.074	-0.003	1.000	132982		10.52(5.56-16.69)		797	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.085	-0.004	1.186	245242	1.27		106	1148	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.085	-0.004	1.000	365678	0.9843		103	6238	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.141	4.144	-0.003	1.000	1012486	0.8788		87.9	3131	
D 21 13C8 FOSA										
506.00 > 78.00	4.141	4.144	-0.003	1.203	1431943	1.31		104	3908	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.223	4.226	-0.003	1.227	389634	1.47		117	1027	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.223	4.226	-0.003	1.000	288974	1.03		103	690	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.318	4.322	-0.004	1.151	376315	0.9123	Target=2.45	94.6	2284	
599.00 > 99.00	4.318	4.322	-0.004	1.151	149411		2.52(1.23-3.68)		1335	
D 30 13C2 PFOuA										
565.00 > 520.00	4.342	4.346	-0.004	1.262	1597144	1.37		110	7425	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.342	4.346	-0.004	1.000	1131928	0.8115	Target=10.33	81.2	356	
563.00 > 169.00	4.342	4.346	-0.004	1.000	105363		10.74(5.17-15.50)		768	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.354	4.358	-0.004	1.000	266245	0.9087		90.9	725	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.354	4.358	-0.004	1.265	394216	1.55		124	872	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.448	4.452	-0.004	1.186	2591950	1.05		112	5962	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.580	4.584	-0.004	1.000	1130270	0.9054	Target=8.10	90.5	152	M
613.00 > 169.00	4.580	4.584	-0.004	1.000	143962		7.85(4.05-12.15)		1837	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.584	-0.004	1.331	1532653	1.31		105	6224	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.602	4.606	-0.004	1.128	250171	1.06		110	3102	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.767	4.770	-0.003	1.271	149939	0.8948	Target=0.51	92.4	2040	
699.00 > 99.00	4.758	4.770	-0.012	1.268	277968		0.54(0.26-0.77)		3514	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.796	4.799	-0.003	1.047	1287990	1.03	Target=6.06	103	175	M
663.00 > 169.00	4.796	4.799	-0.003	1.047	202250		6.37(3.03-9.09)		1940	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.993	4.998	-0.005	1.000	133179	0.8596	Target=0.83	86.0	2192	
713.00 > 219.00	4.993	4.998	-0.005	1.000	145398		0.92(0.42-1.25)		1576	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.993	4.998	-0.005	1.451	1551108	1.54		124	6462	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.359	5.362	-0.003	1.000	1100490	0.9844	Target=6.74	98.4	169	
813.00 > 169.00	5.359	5.362	-0.003	1.000	153321		7.18(3.37-10.11)		2166	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.359	5.362	-0.003	1.557	1507631	1.22		97.9	6927	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.727	5.711	0.016	1.069	952353	0.9762	Target=6.99	97.6	186	M
913.00 > 169.00	5.718	5.711	0.007	1.067	122485		7.78(3.50-10.49)		784	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00037

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d

Injection Date: 26-Jan-2023 22:21:31

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: LC812user

ALS Bottle#: 17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

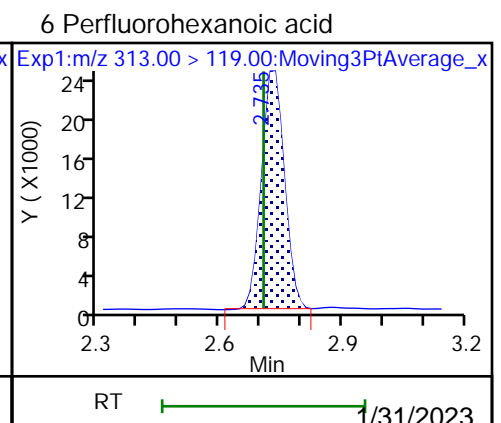
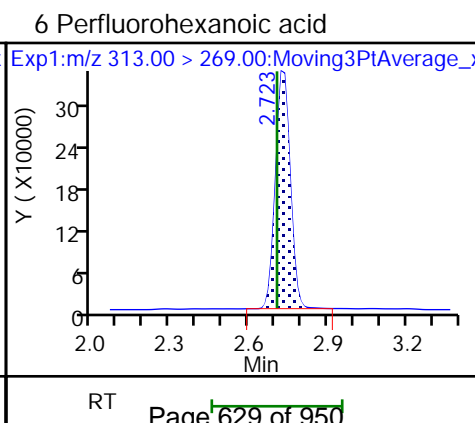
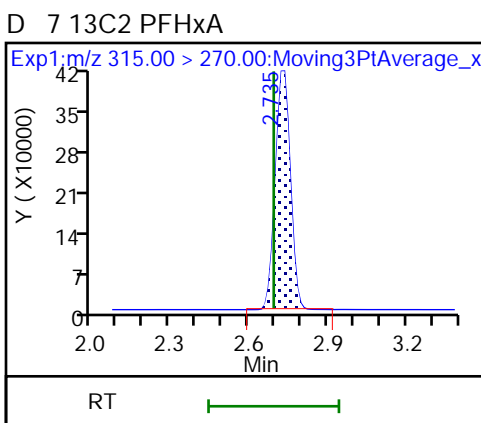
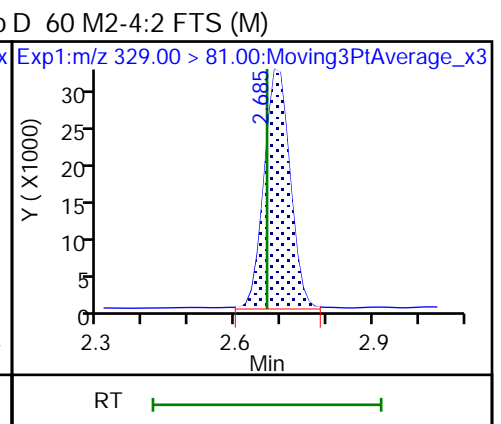
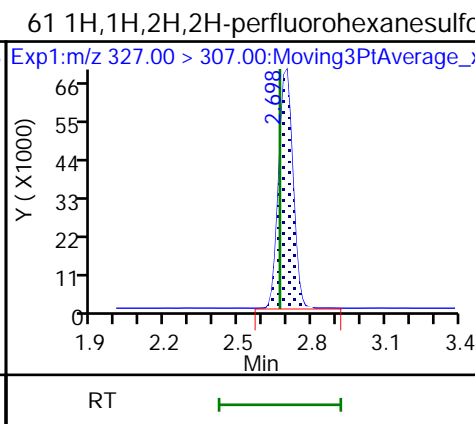
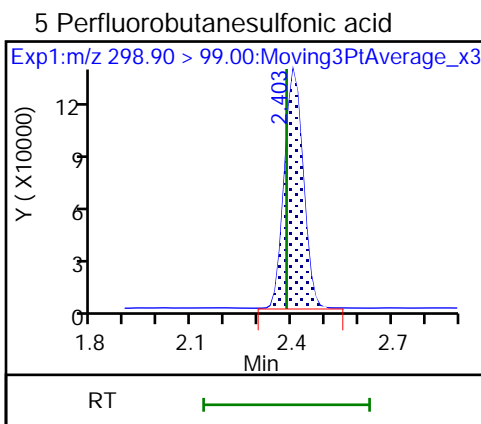
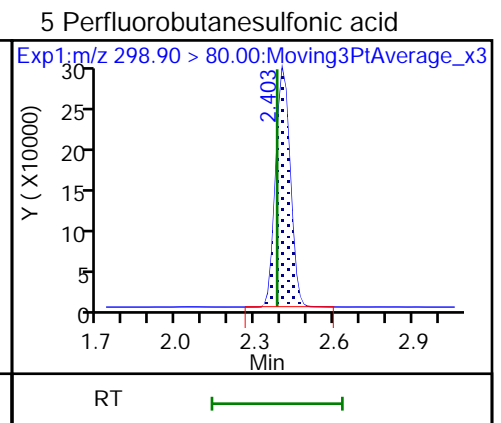
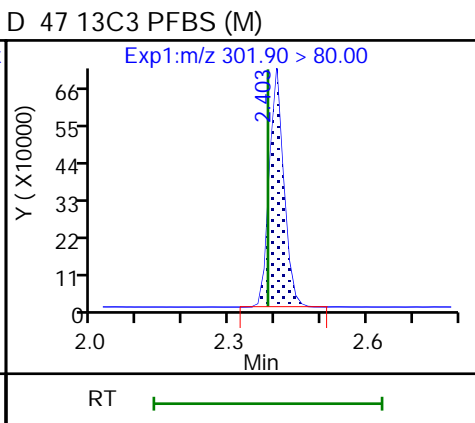
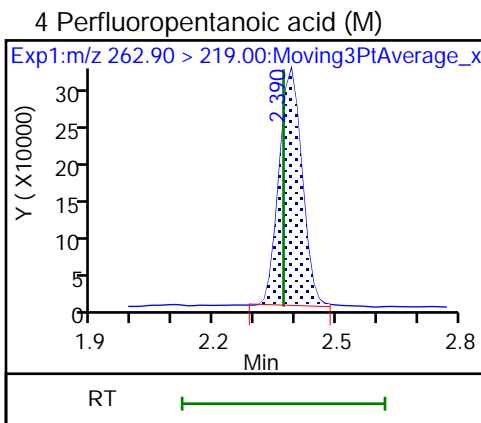
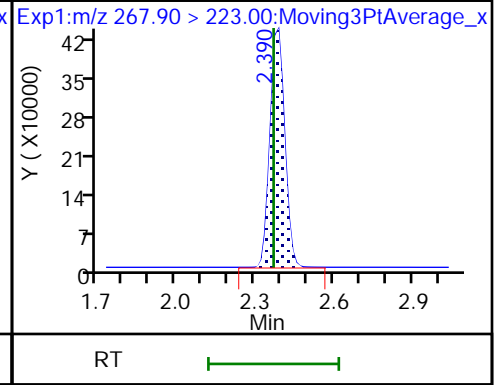
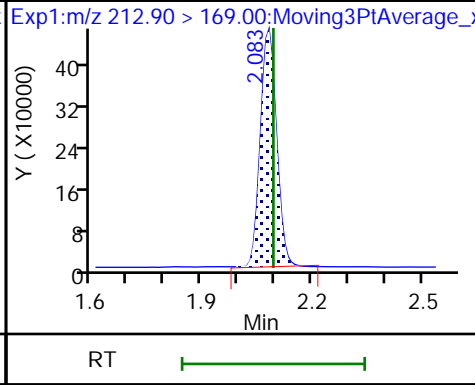
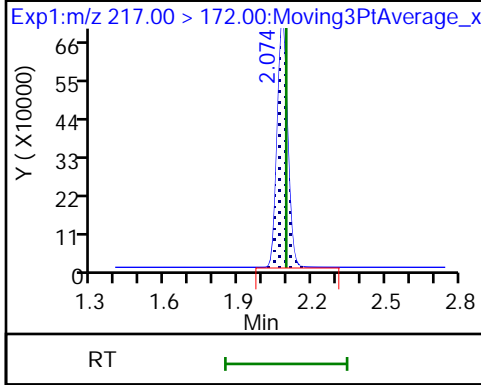
Method: PFC_LC812

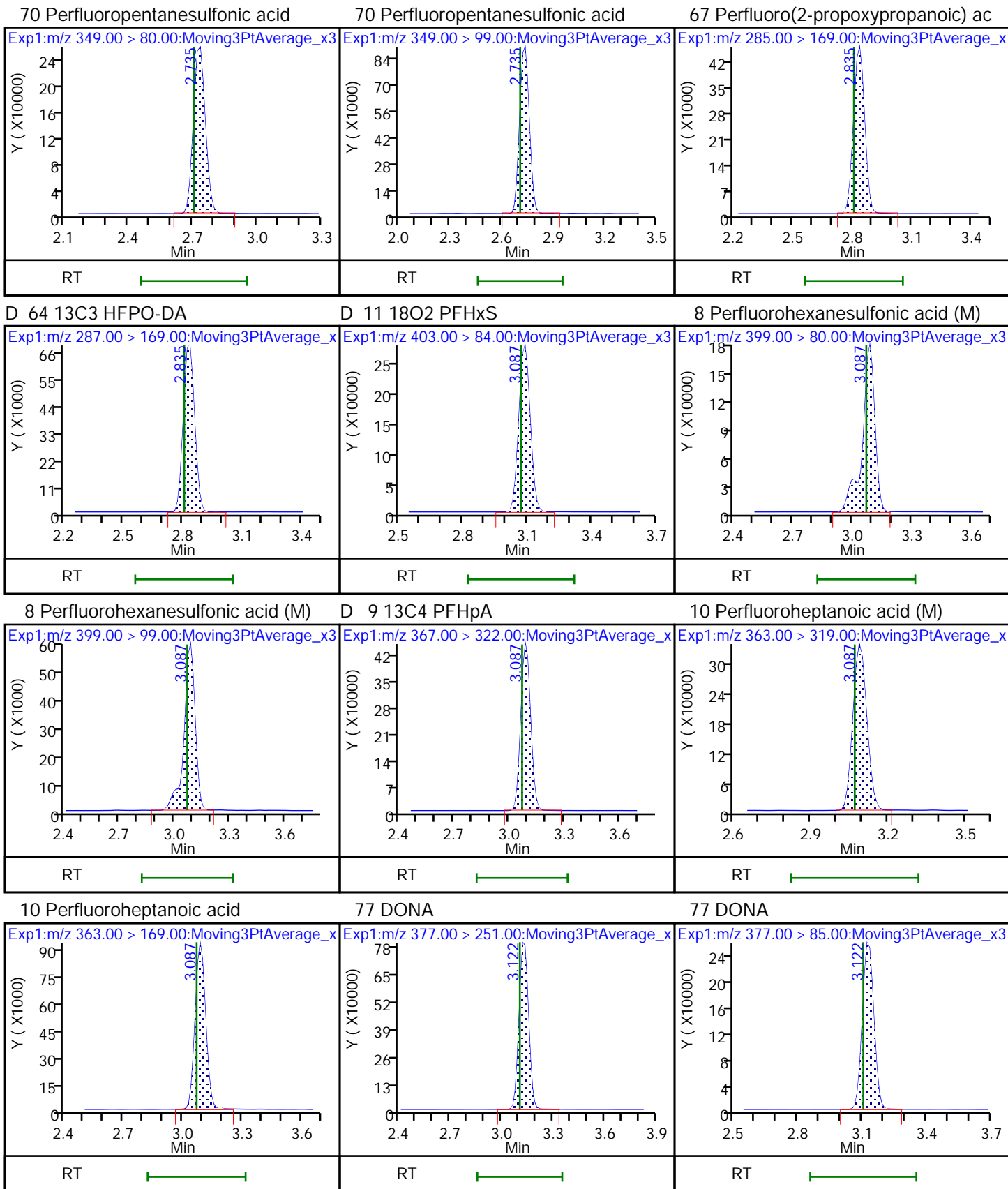
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

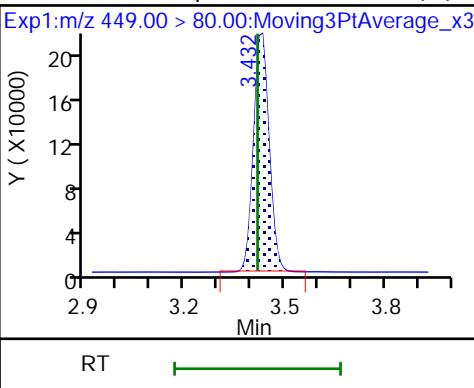
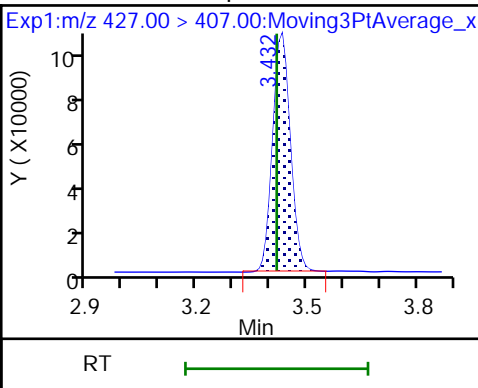
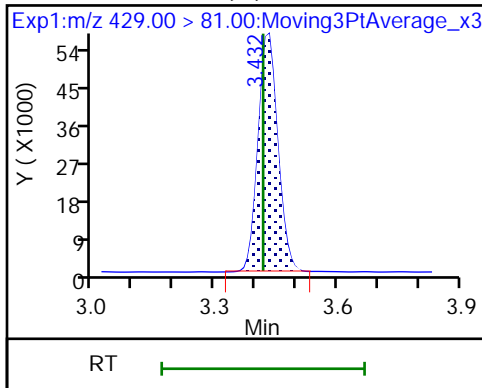




D 12 M2-6:2 FTS (M)

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

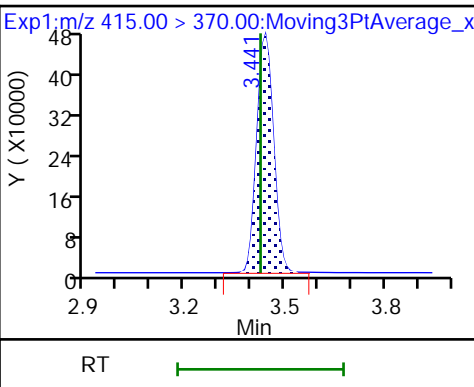
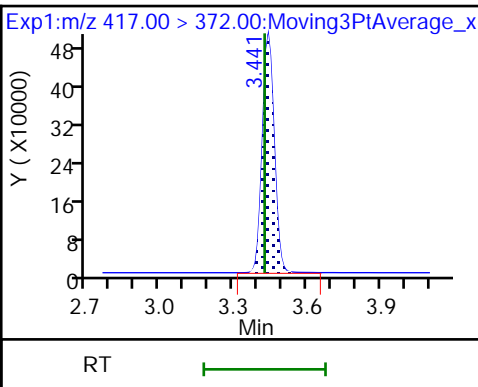
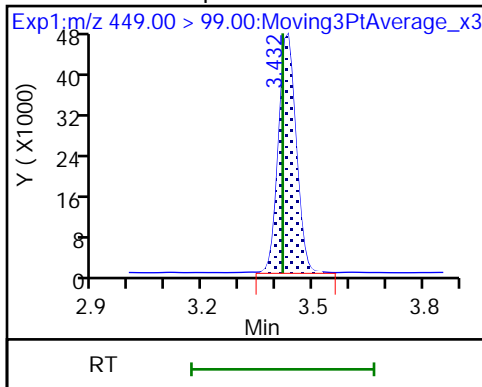
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

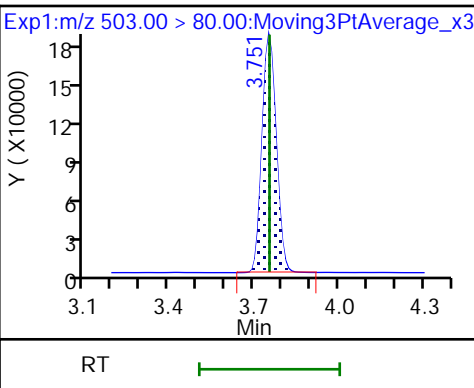
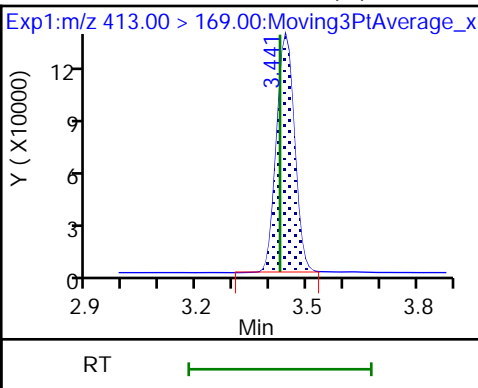
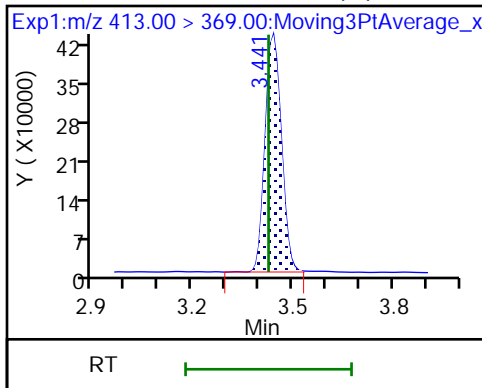
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

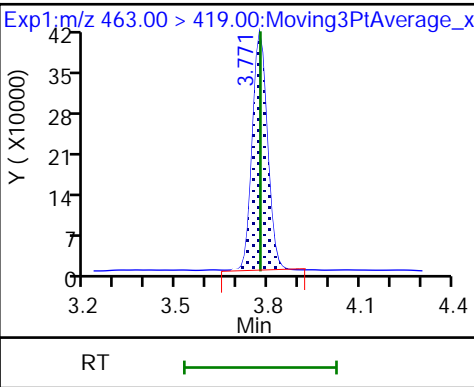
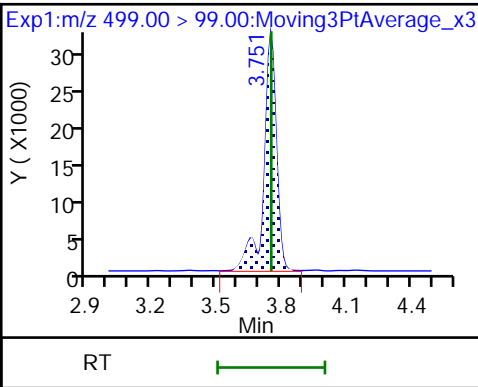
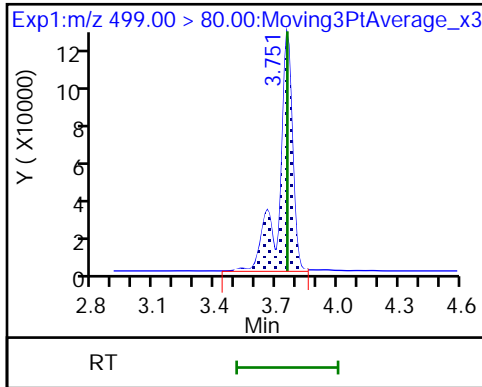
D 18 13C4 PFOS

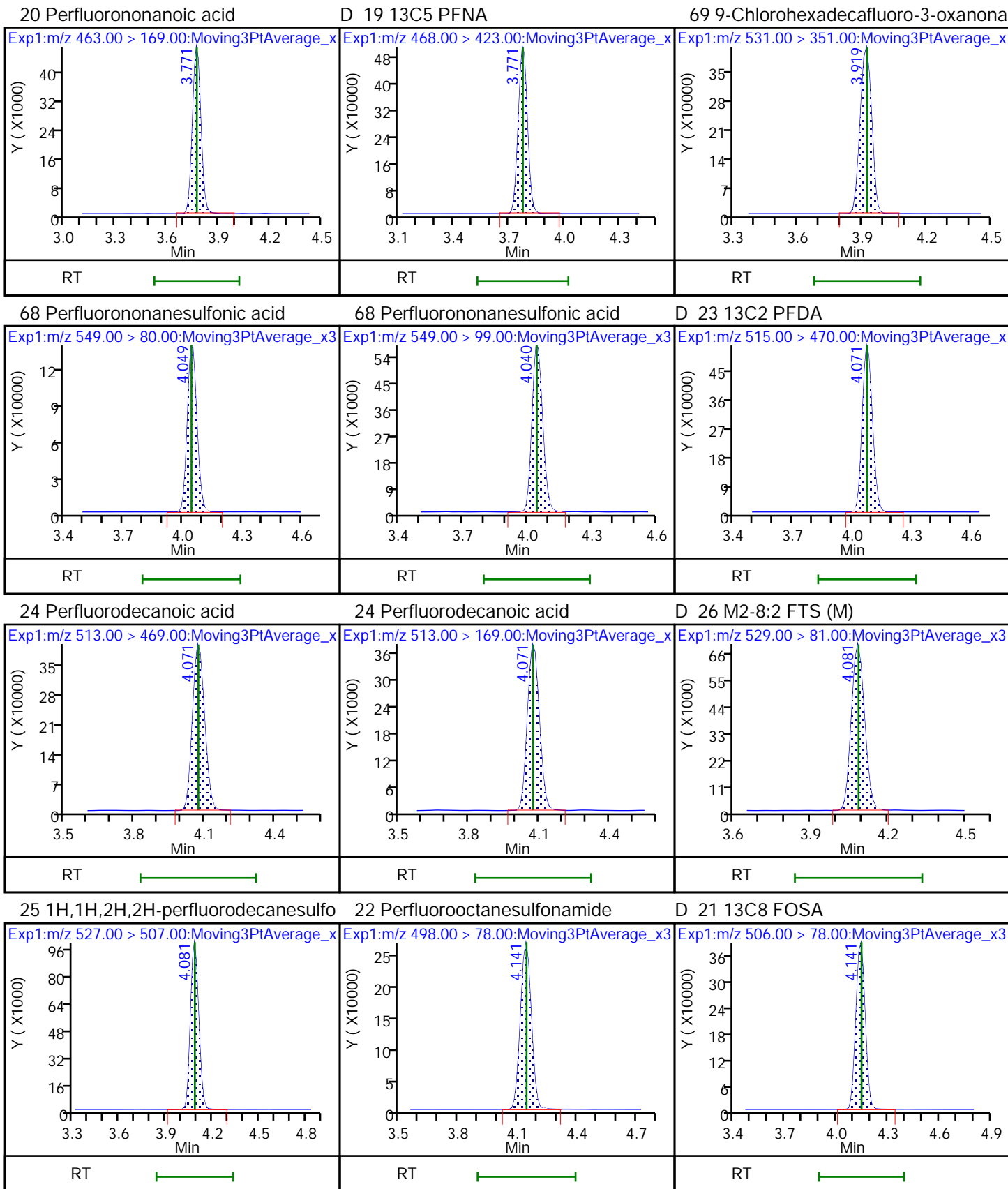


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

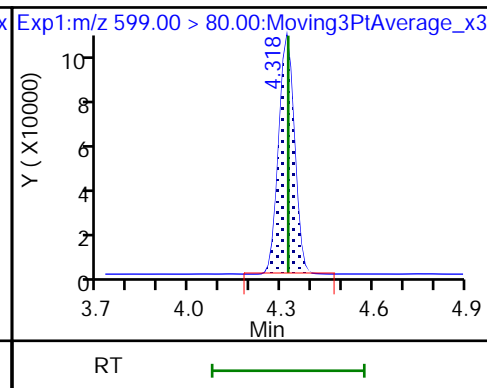
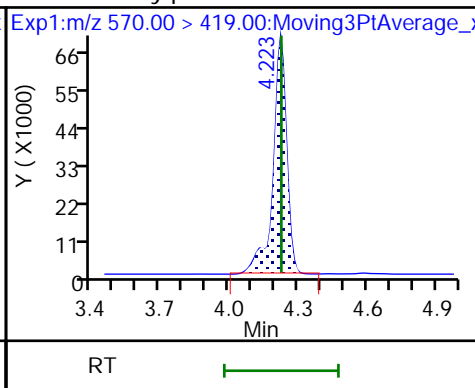
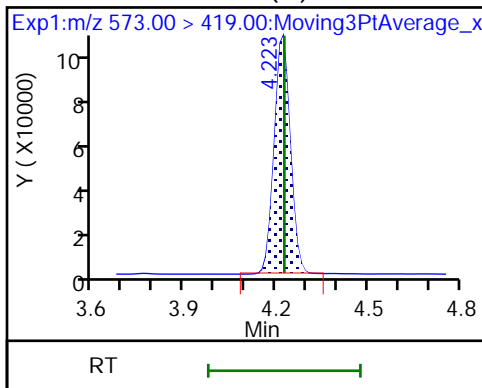




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

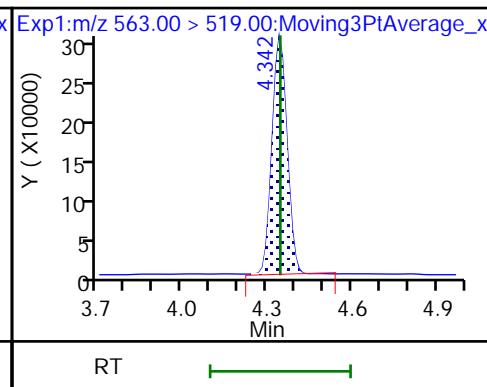
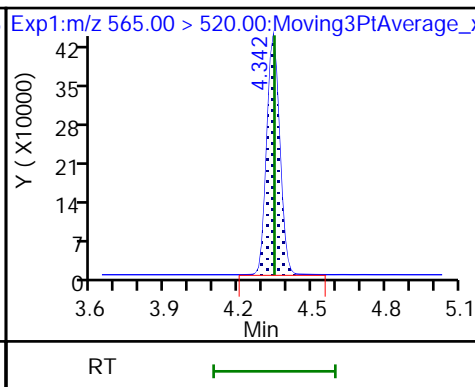
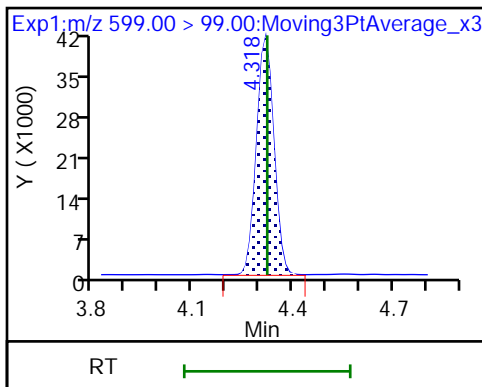
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

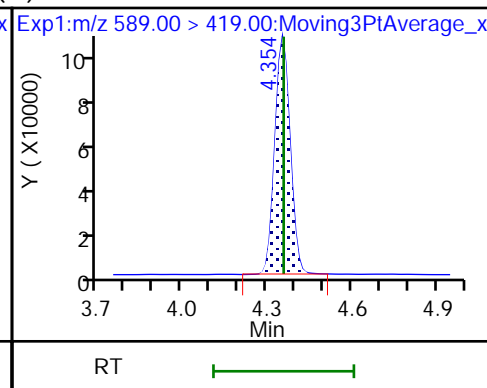
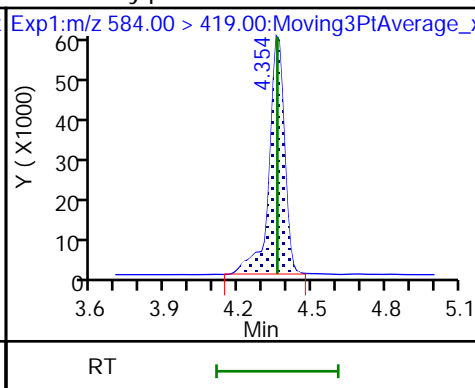
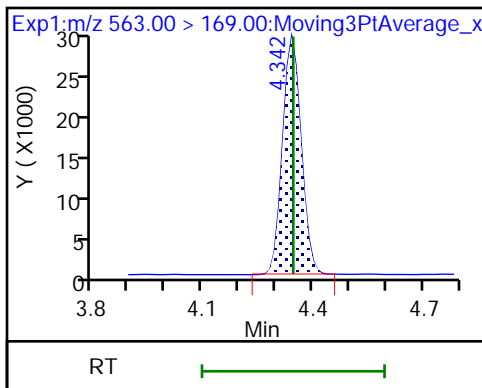
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

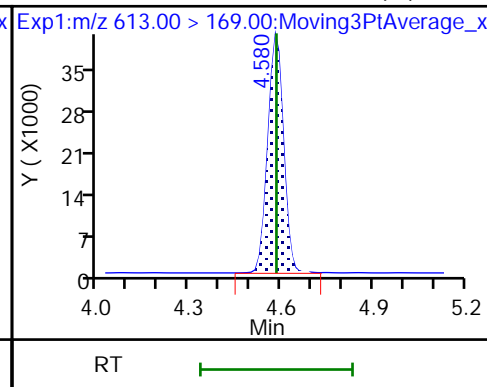
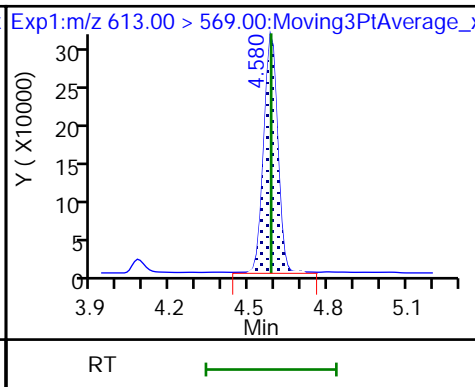
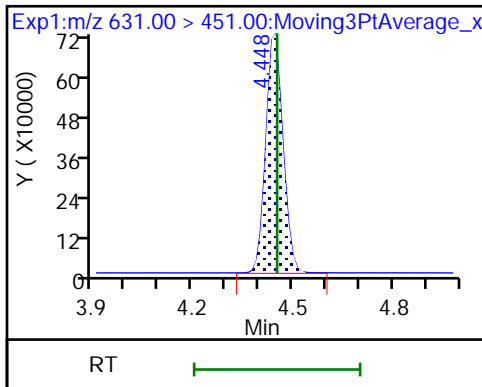
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

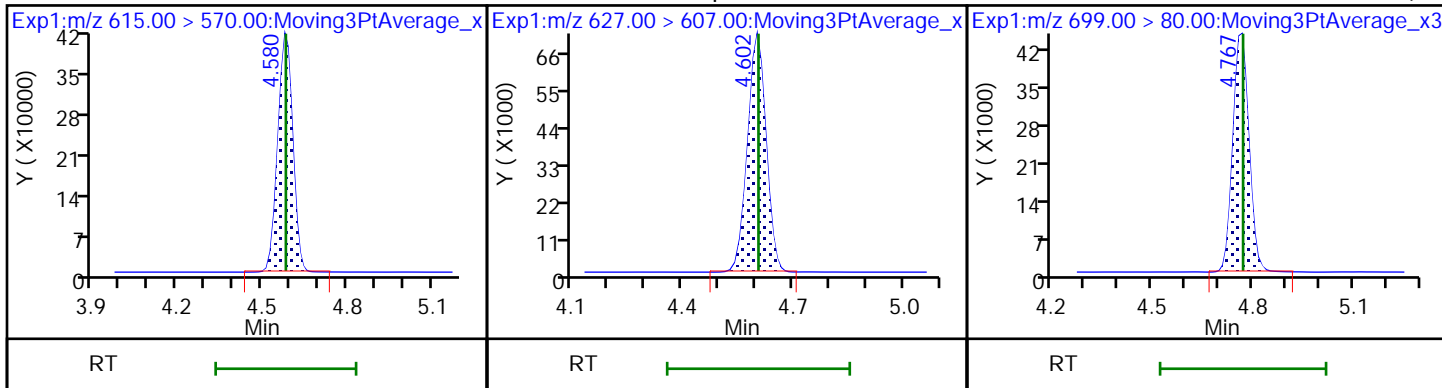
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

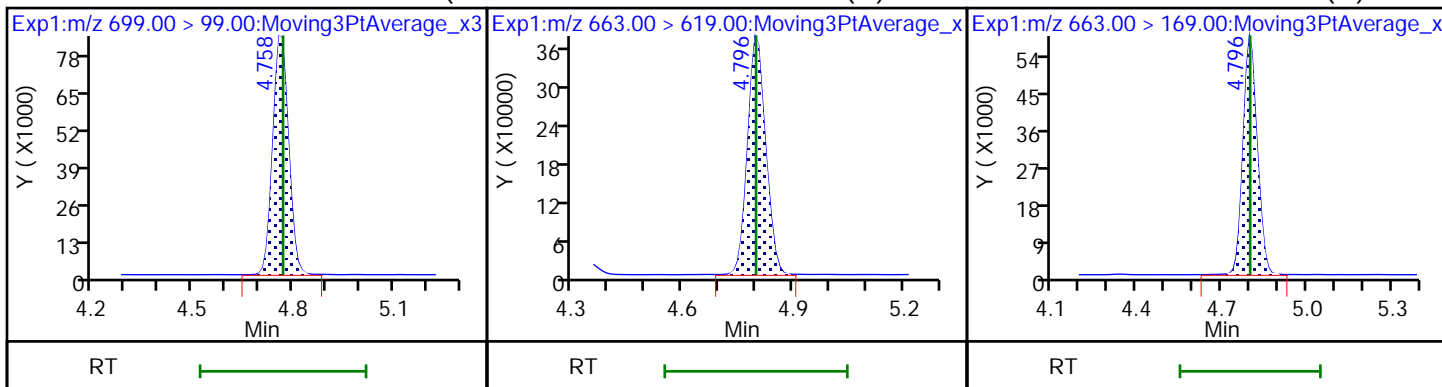
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

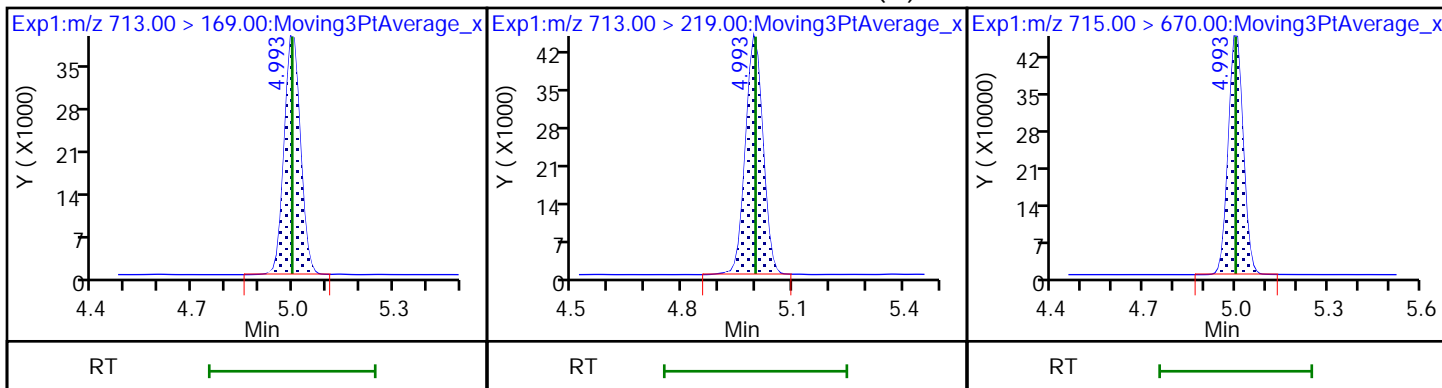
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

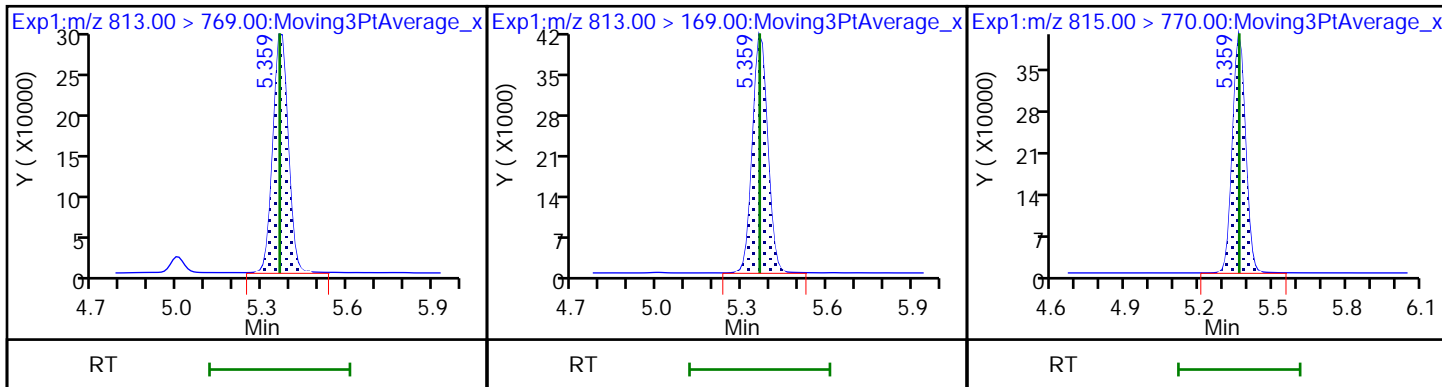
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

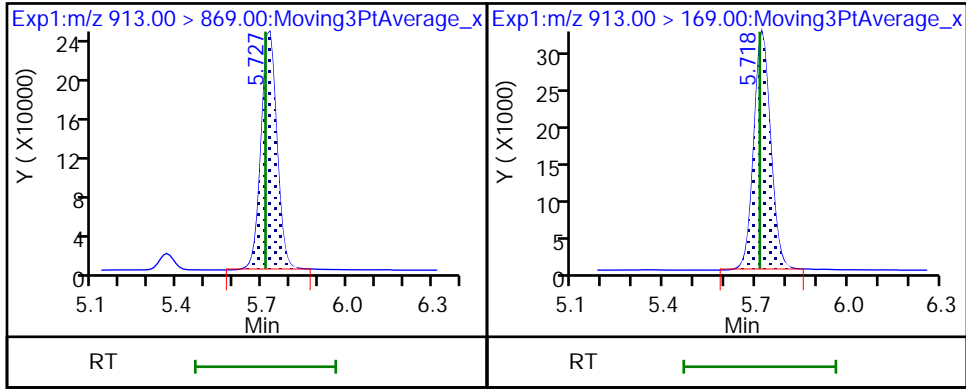
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

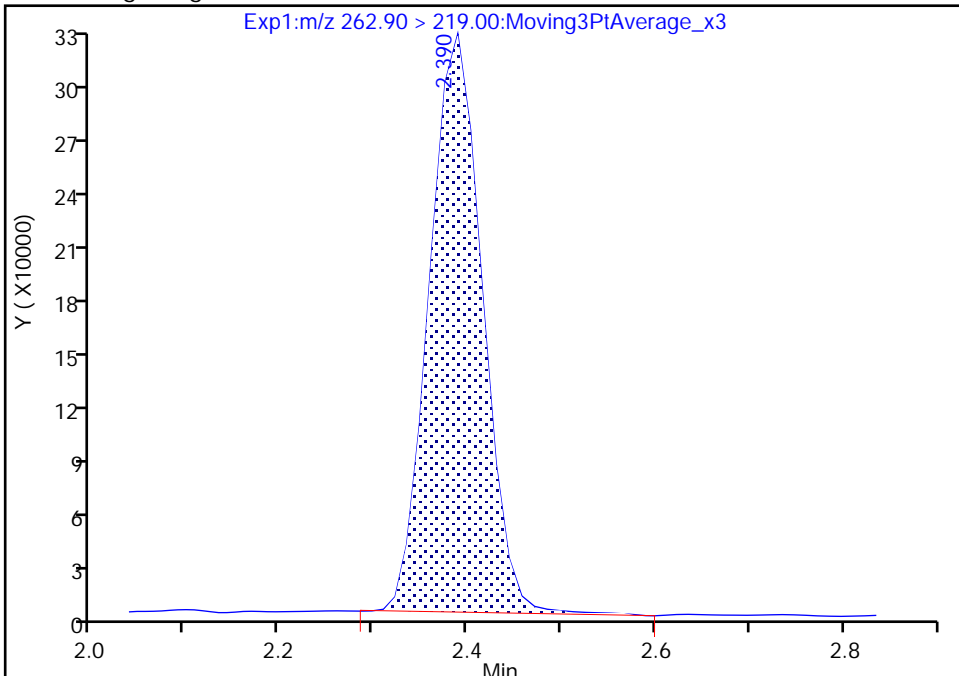
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Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

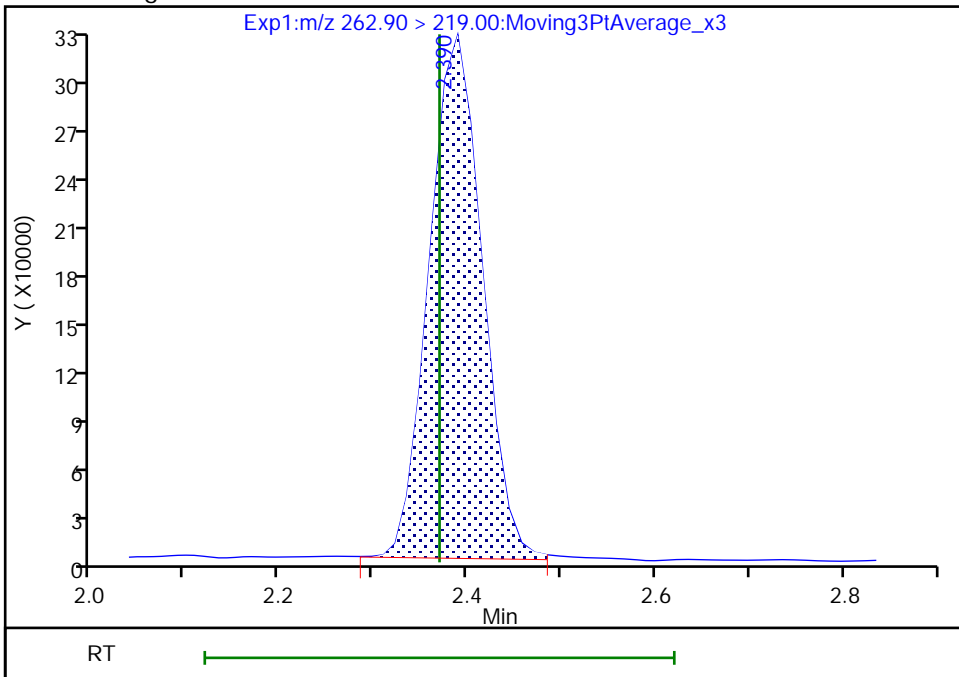
RT: 2.39
Area: 1250757
Amount: 0.810721
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1242960
Amount: 0.805667
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:02:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

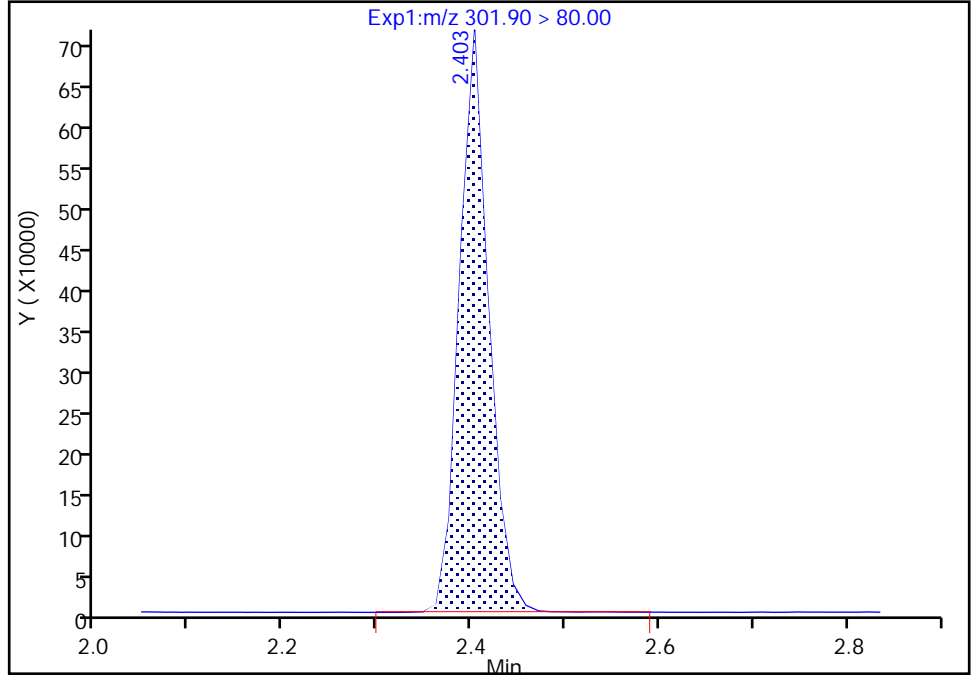
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337
Signal: 1

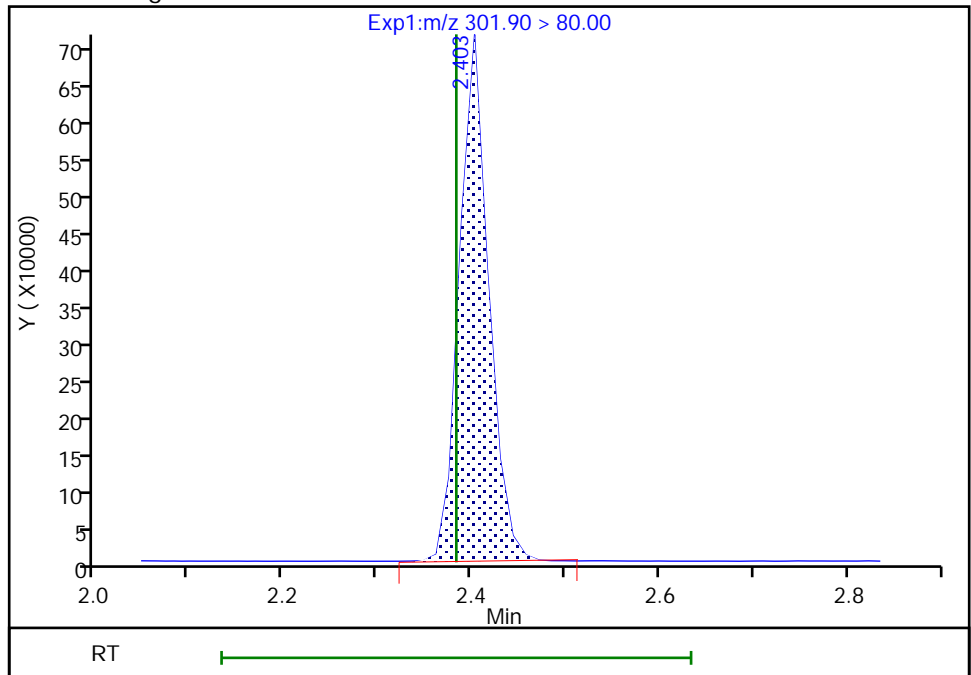
RT: 2.40
Area: 1549638
Amount: 1.151885
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1546829
Amount: 1.149797
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

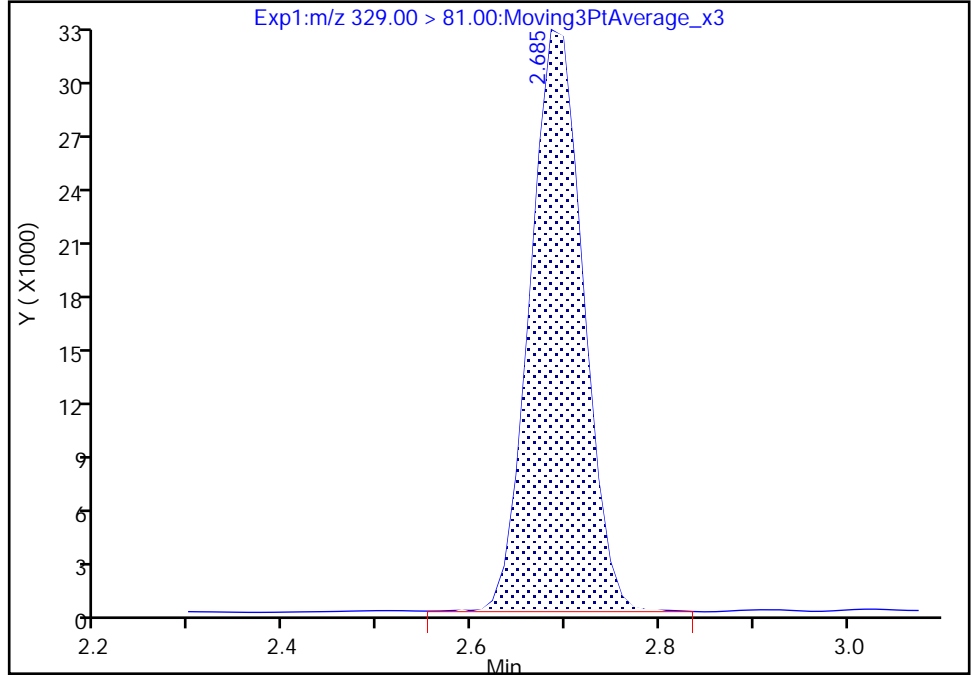
Eurofins Burlington

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Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395
Signal: 1

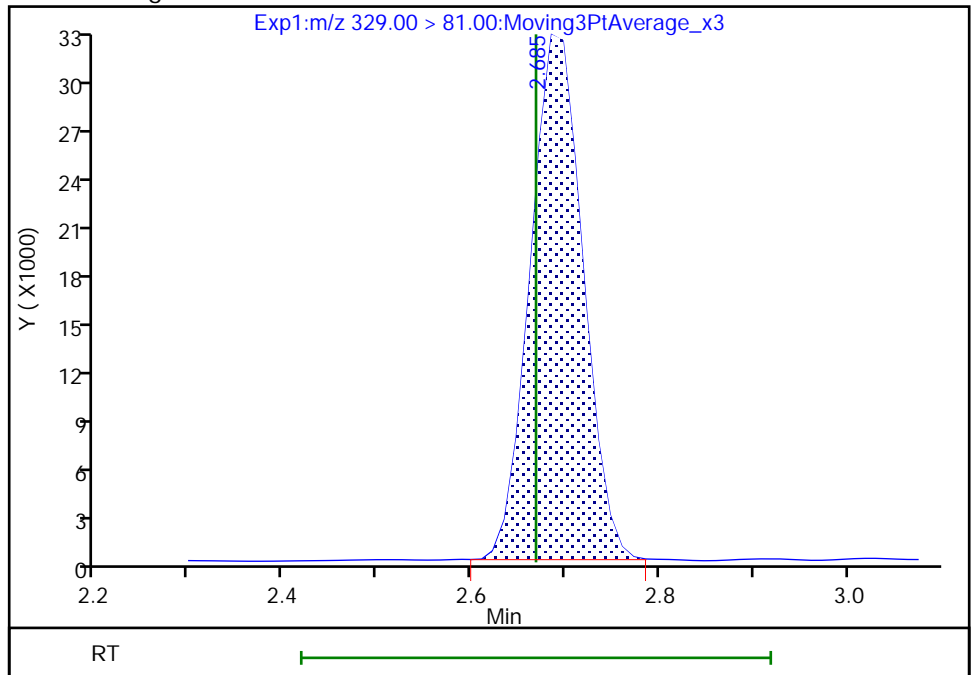
RT: 2.68
Area: 125446
Amount: 1.153284
Amount Units: ng/ml

Processing Integration Results



RT: 2.68
Area: 125295
Amount: 1.151895
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

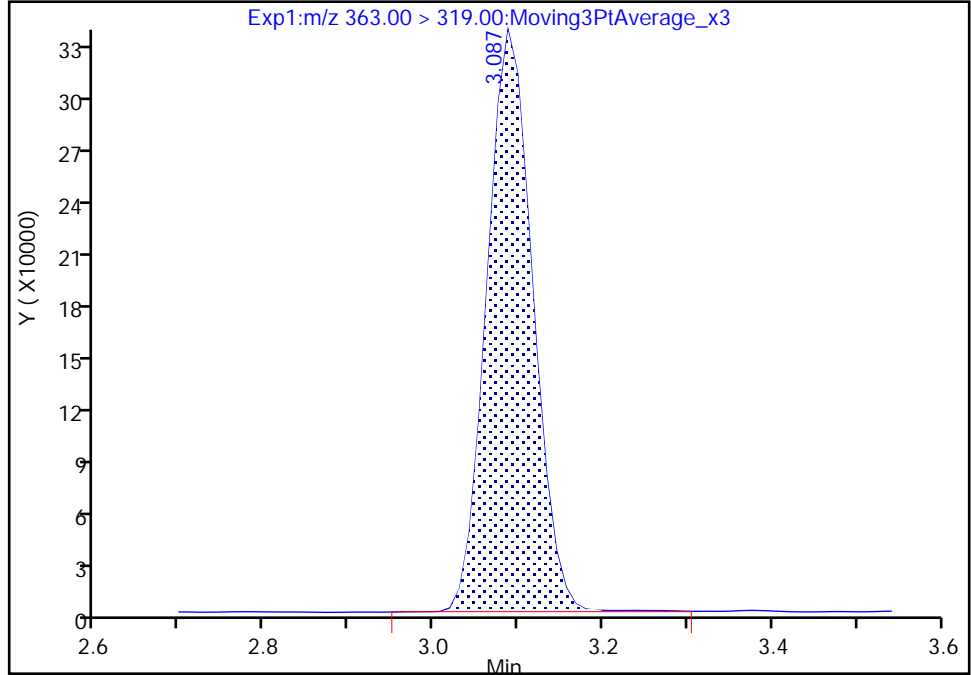
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Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

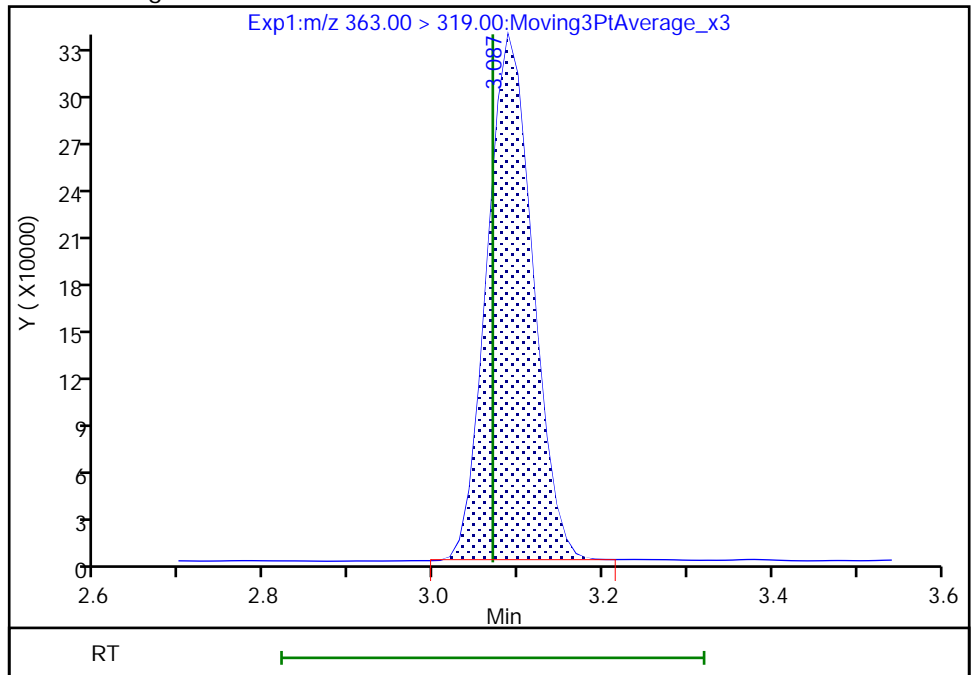
RT: 3.09
Area: 1249056
Amount: 0.895707
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1238099
Amount: 0.887850
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

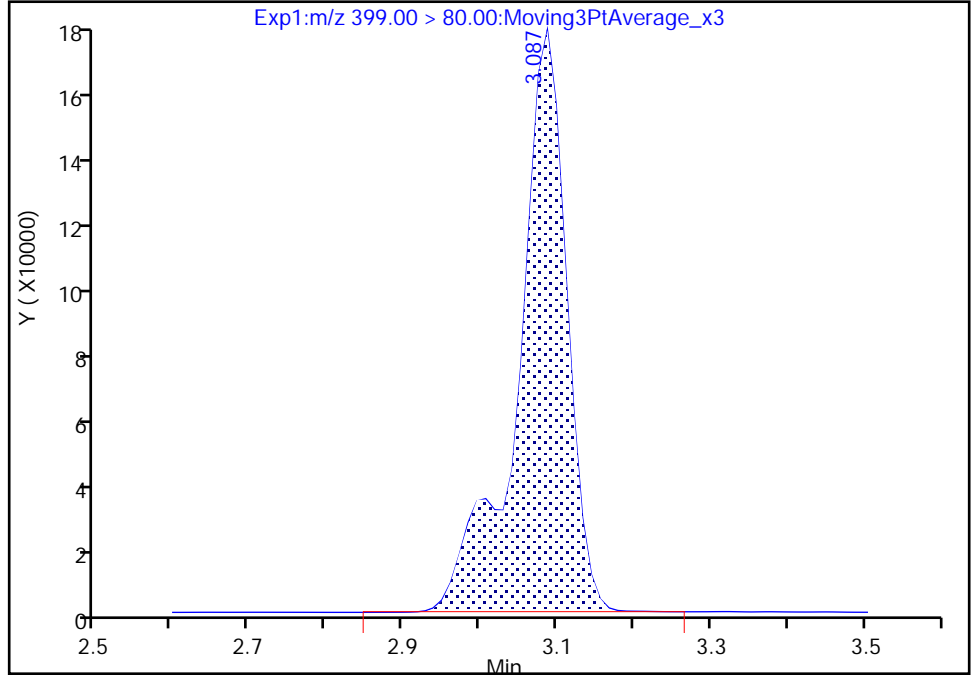
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

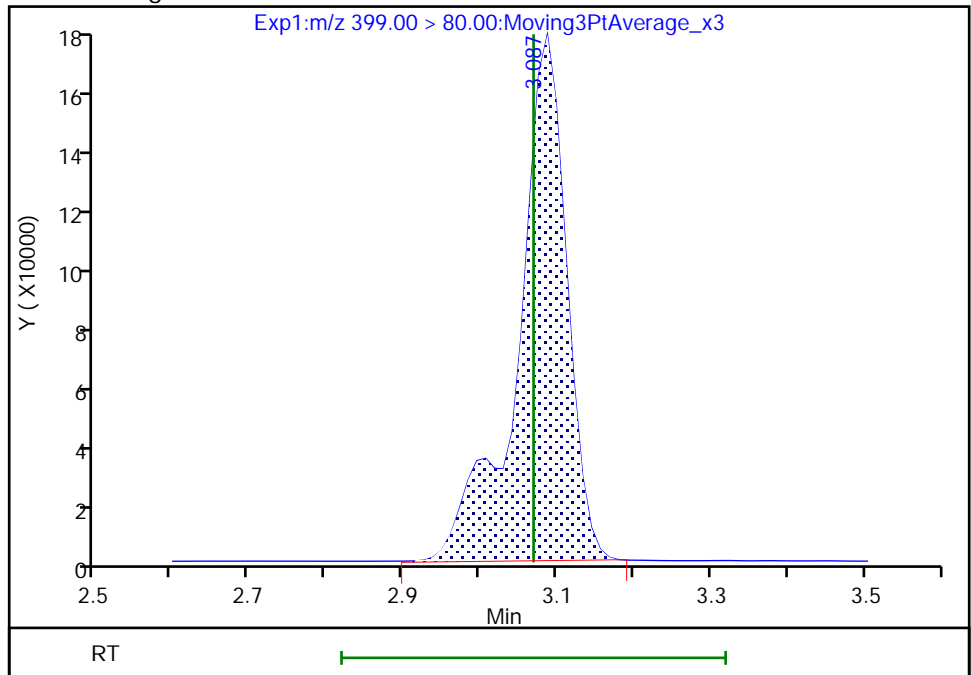
RT: 3.09
Area: 754008
Amount: 0.811869
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 753351
Amount: 0.811162
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

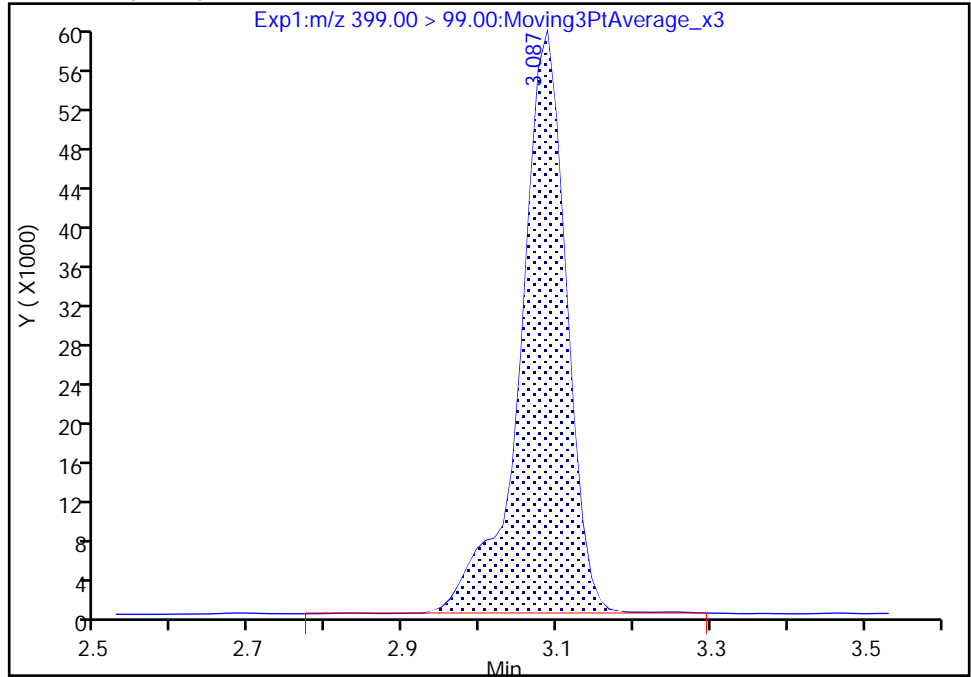
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

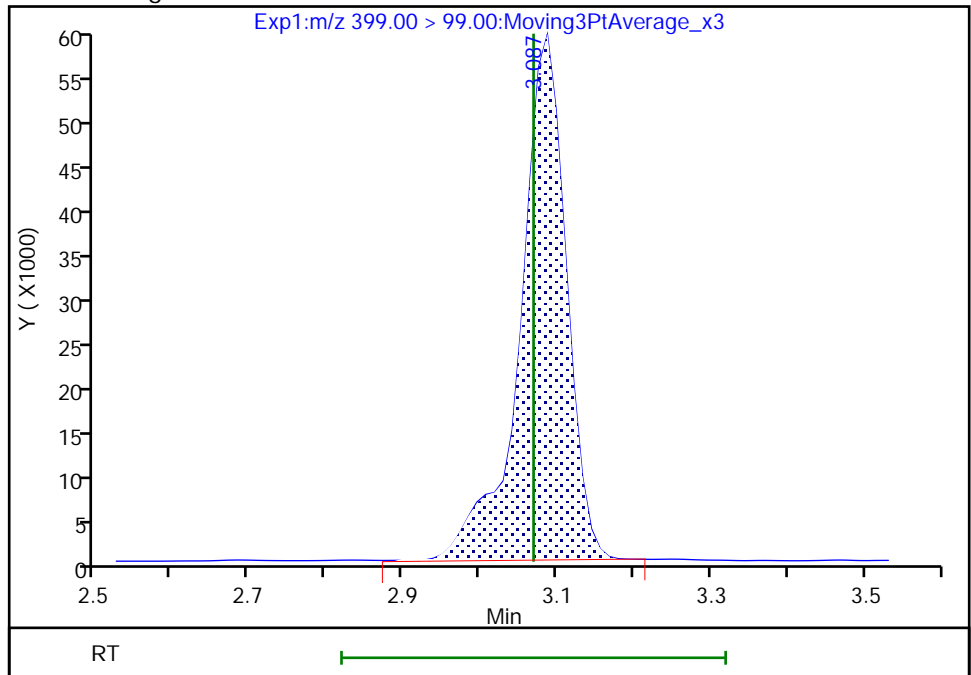
RT: 3.09
Area: 247789
Amount: 0.811869
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 246157
Amount: 0.811162
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

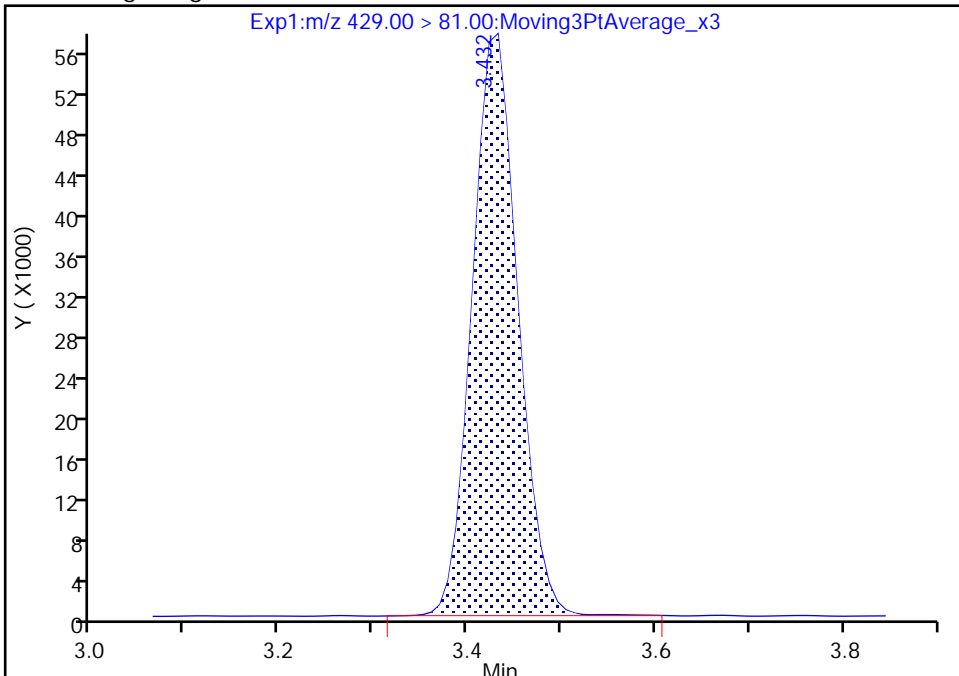
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

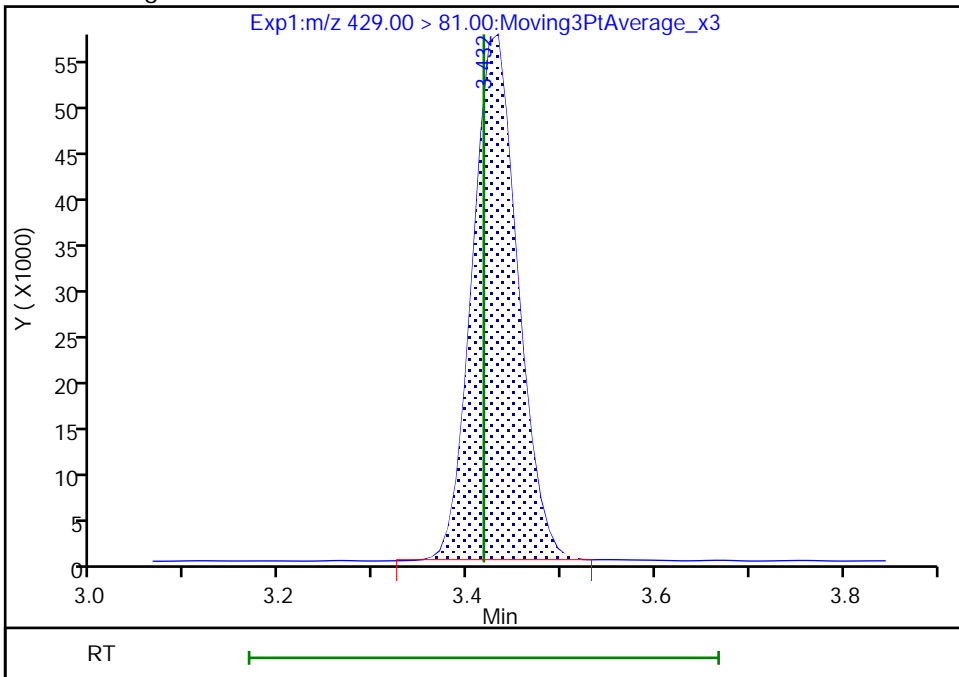
RT: 3.43
Area: 194619
Amount: 1.261261
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 193771
Amount: 1.255766
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

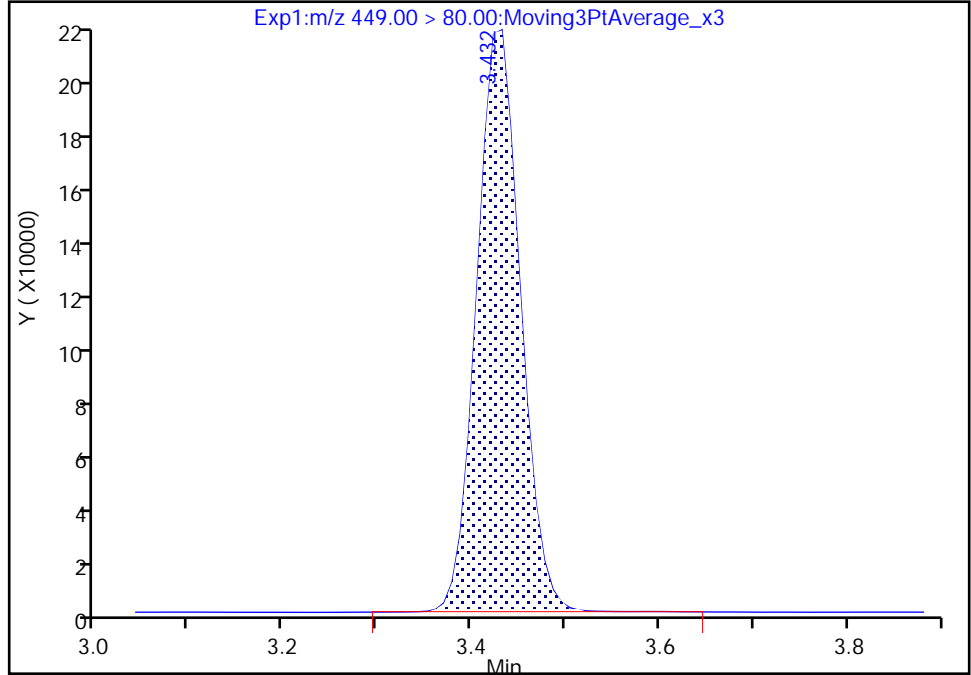
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

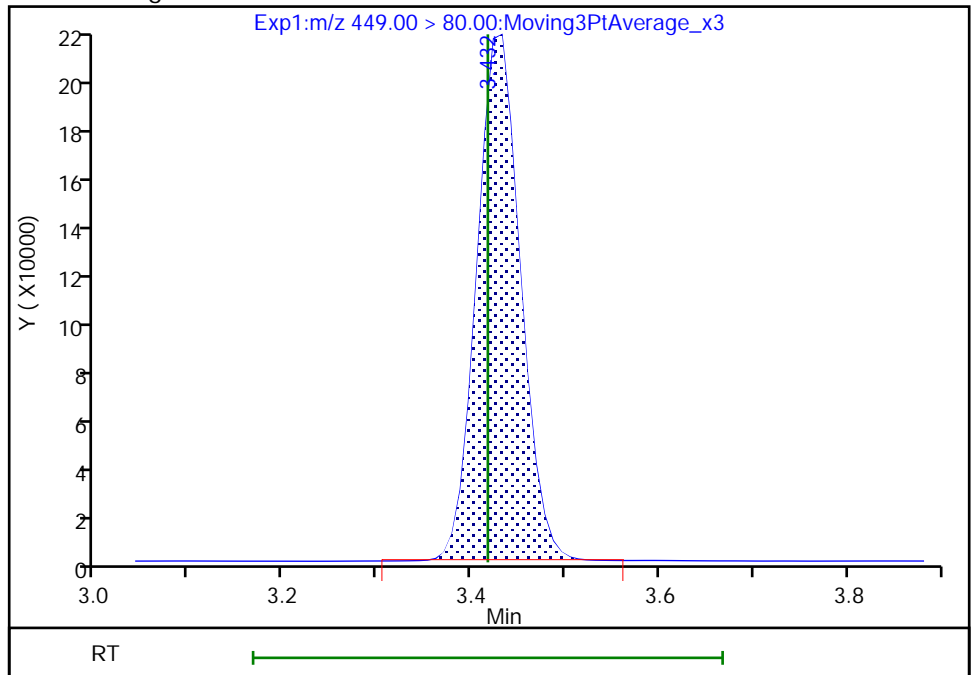
RT: 3.43
Area: 704480
Amount: 0.882737
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 702671
Amount: 0.880470
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

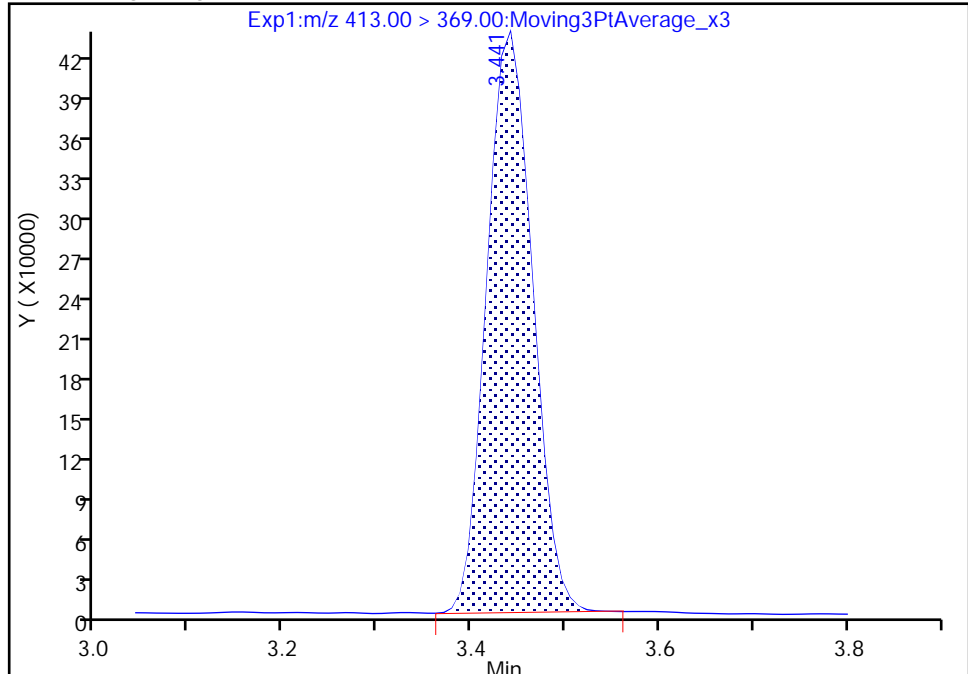
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

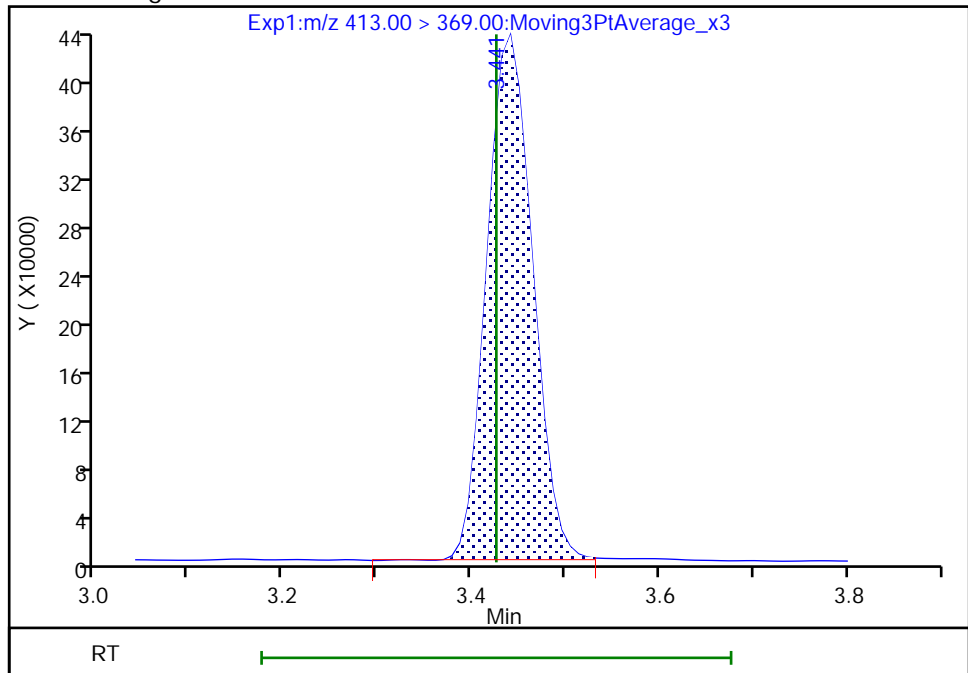
RT: 3.44
Area: 1472245
Amount: 0.995097
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1480024
Amount: 1.000355
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

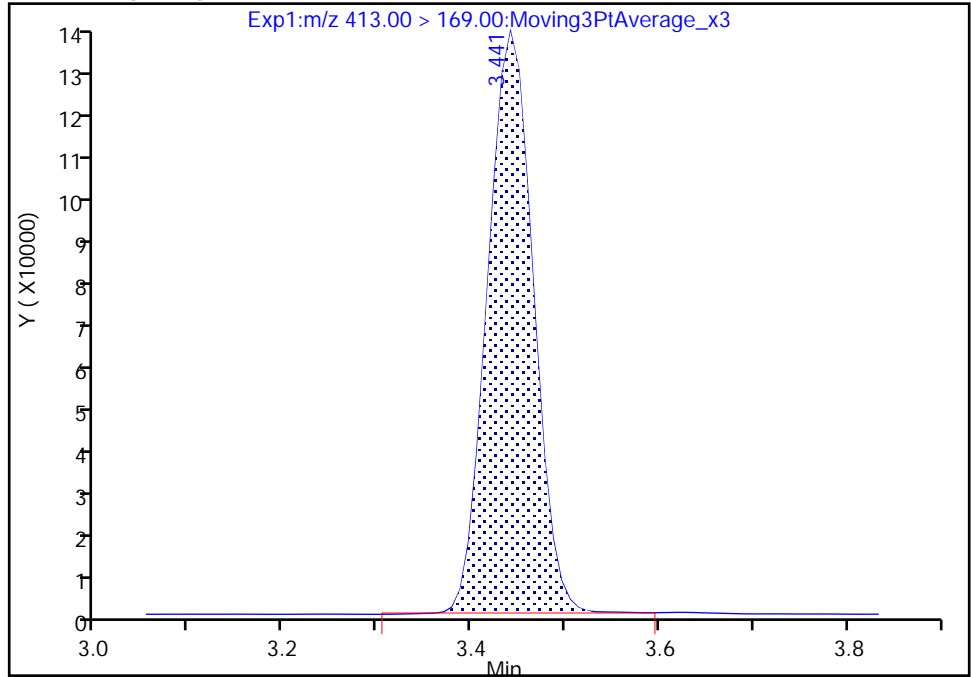
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

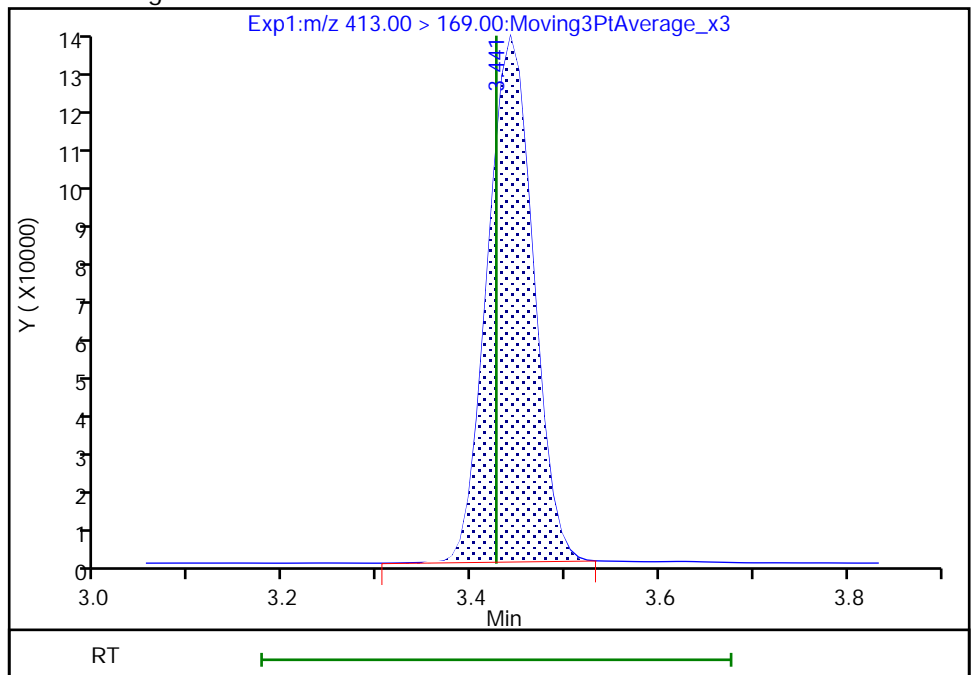
RT: 3.44
Area: 470179
Amount: 0.995097
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 469635
Amount: 1.000355
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:03:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

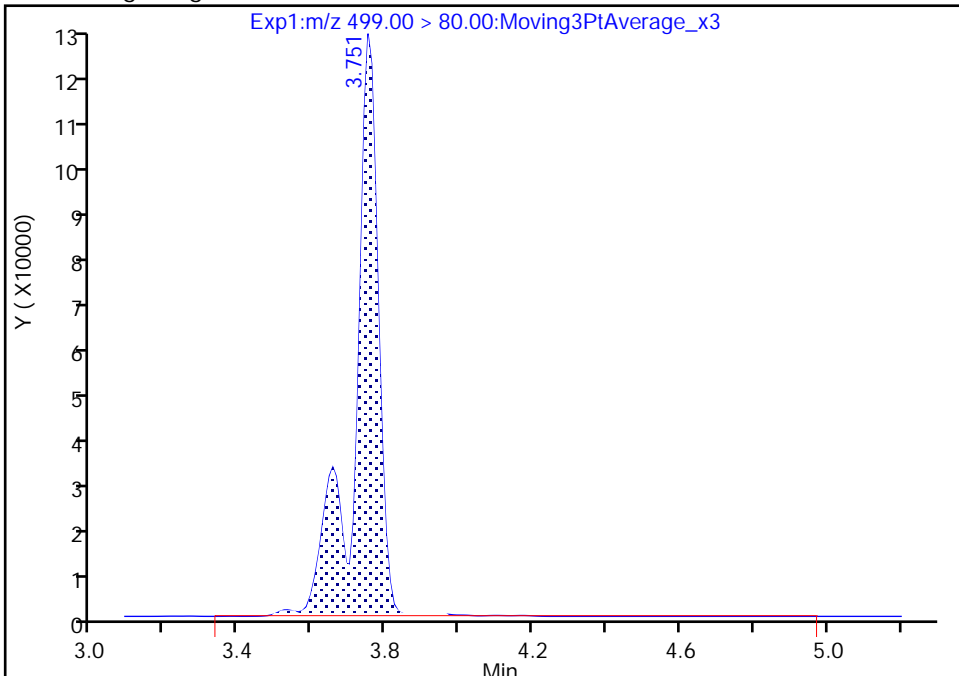
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

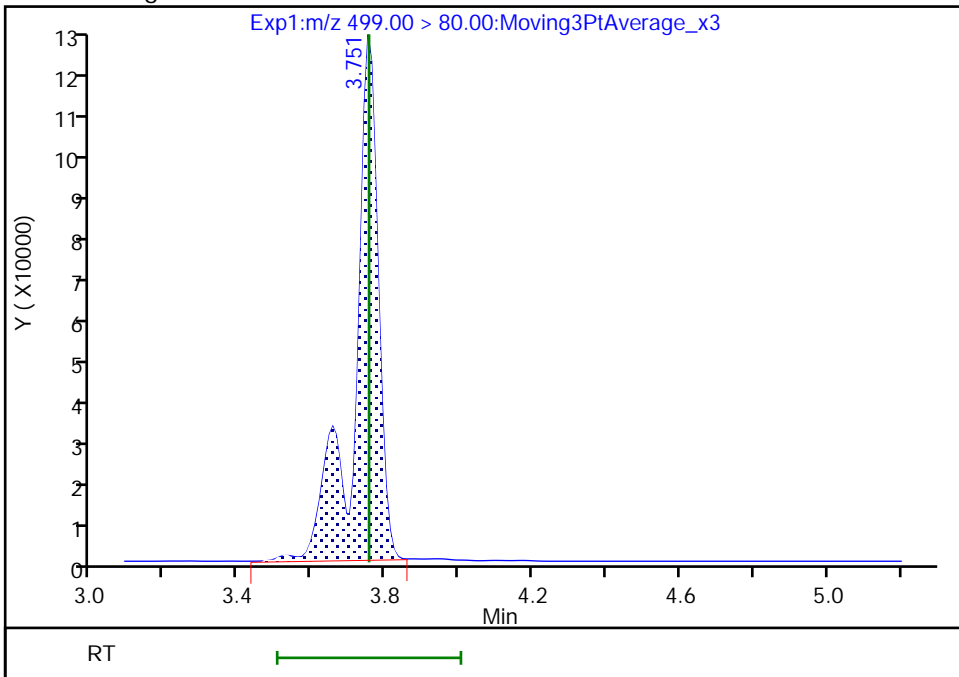
RT: 3.75
Area: 587486
Amount: 0.881748
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 579350
Amount: 0.869536
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:34:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

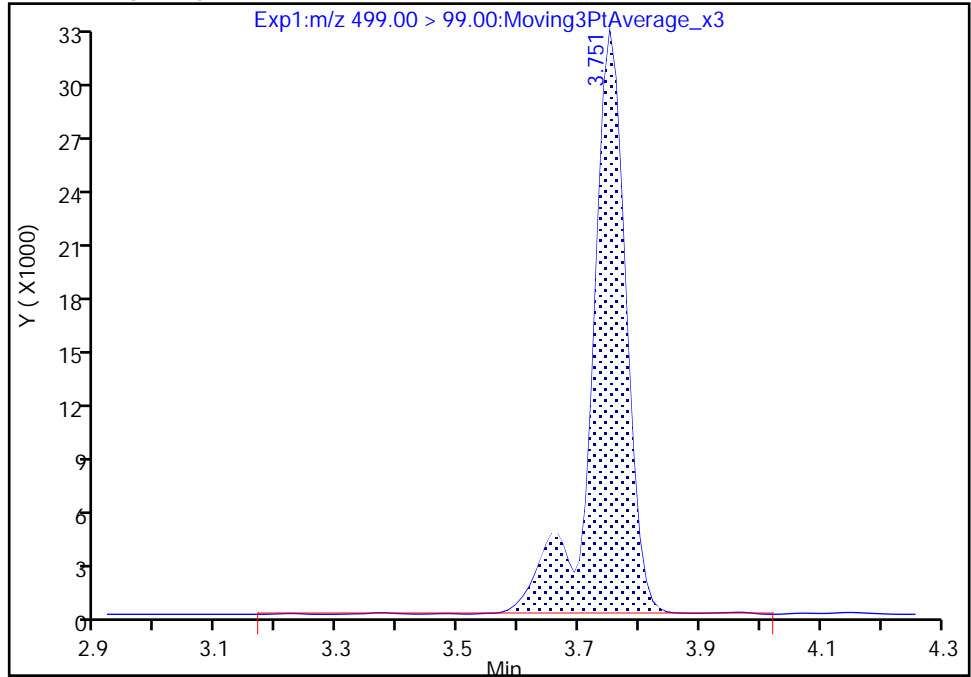
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

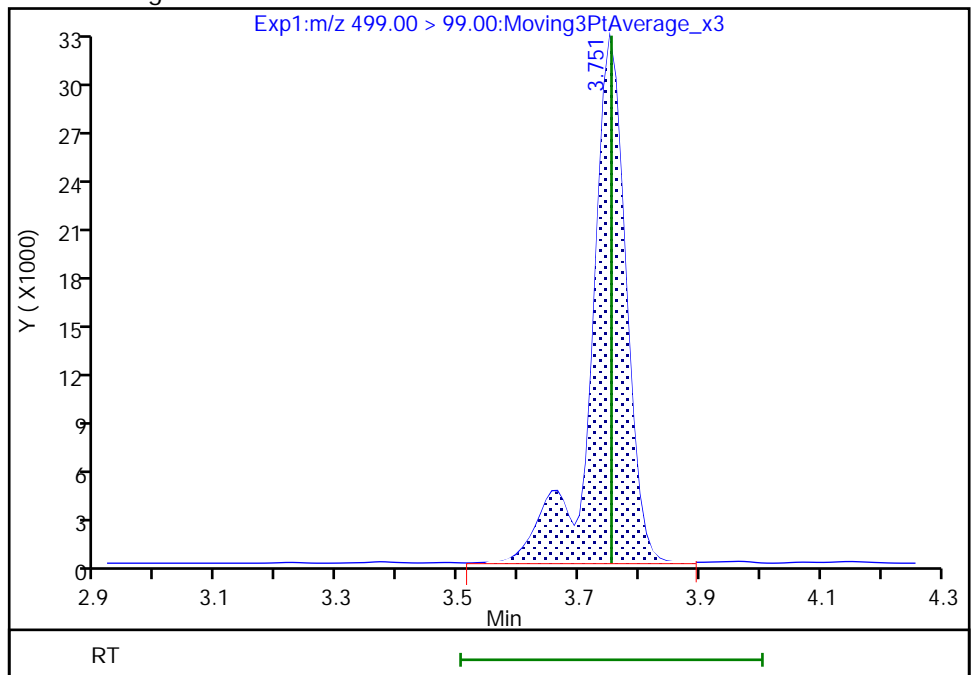
RT: 3.75
Area: 130980
Amount: 0.881748
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 129723
Amount: 0.869536
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:34:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

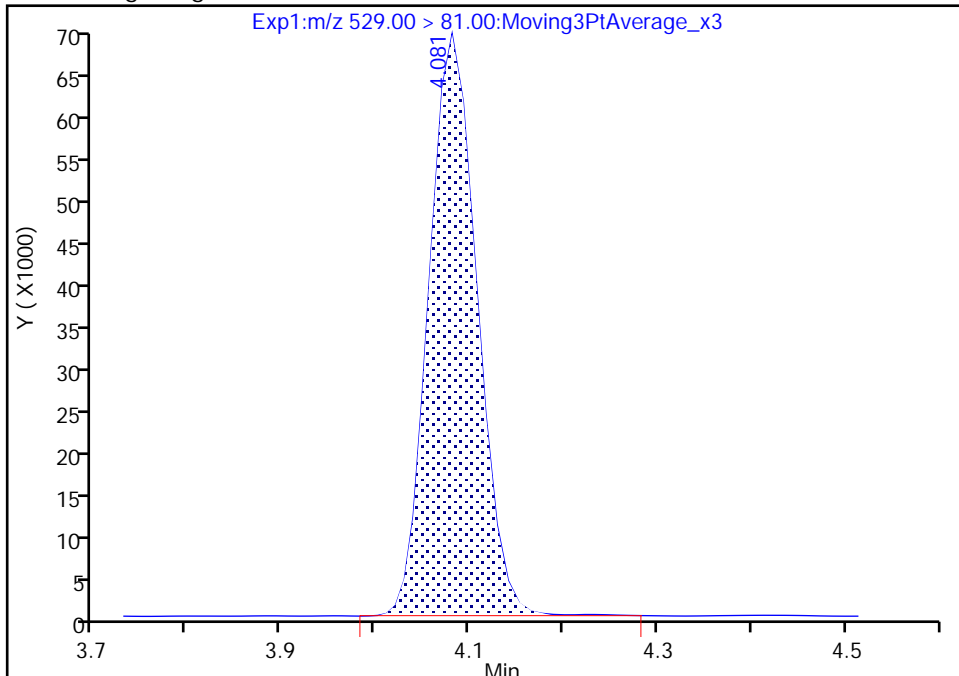
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

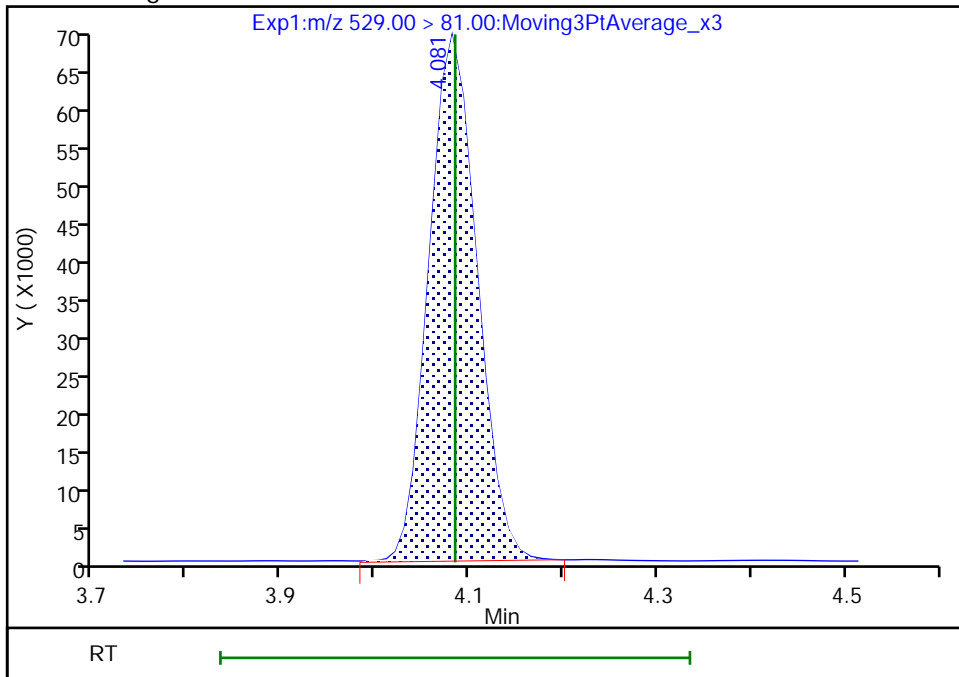
RT: 4.08
Area: 246401
Amount: 1.274590
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 245242
Amount: 1.268595
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

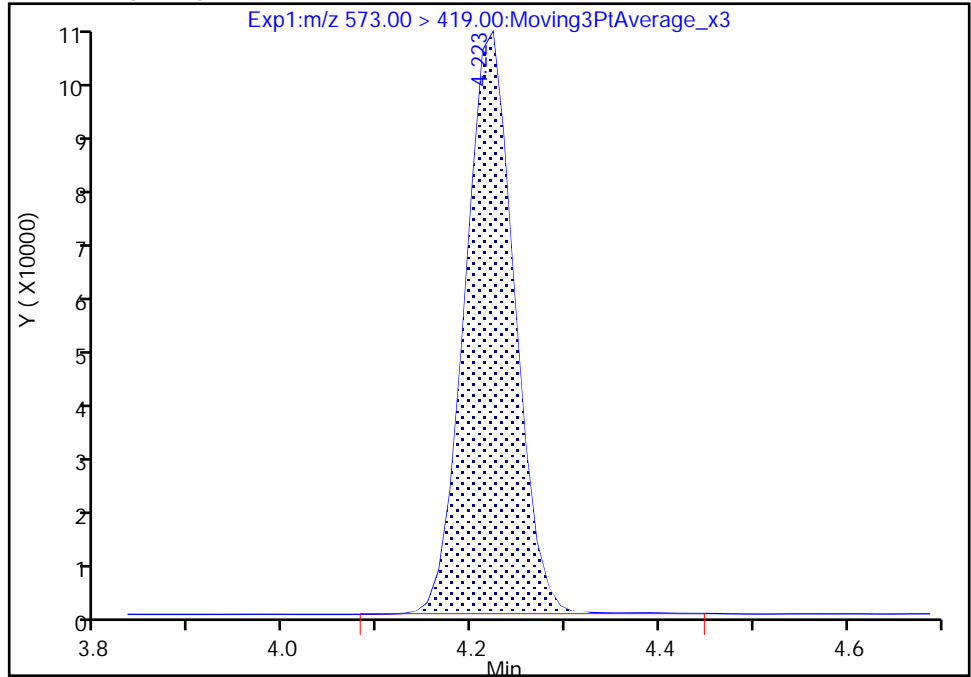
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

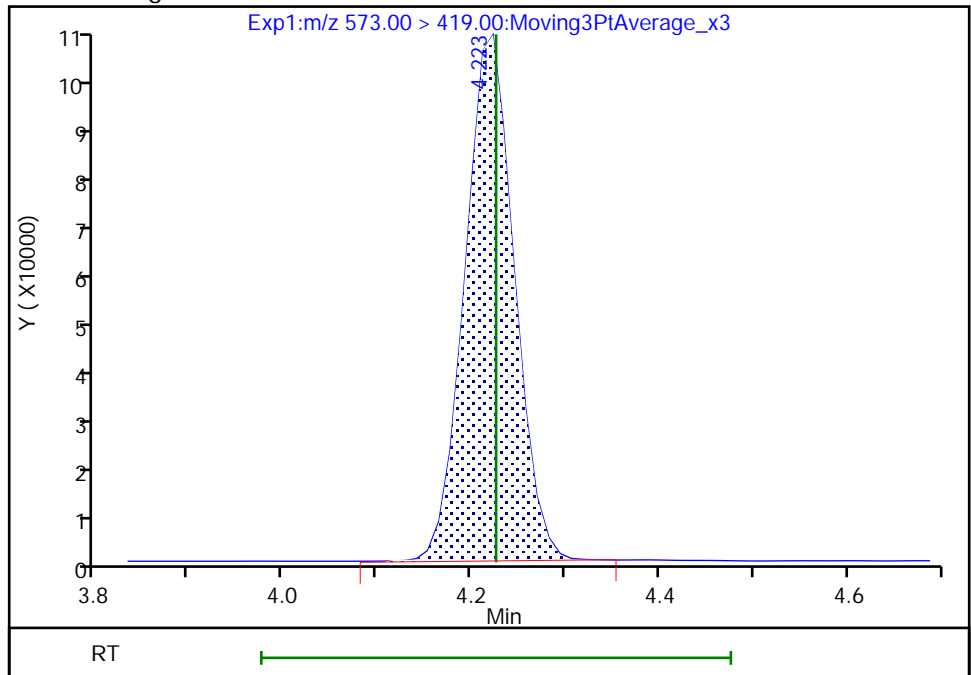
RT: 4.22
Area: 391107
Amount: 1.473832
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 389634
Amount: 1.468281
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:36:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

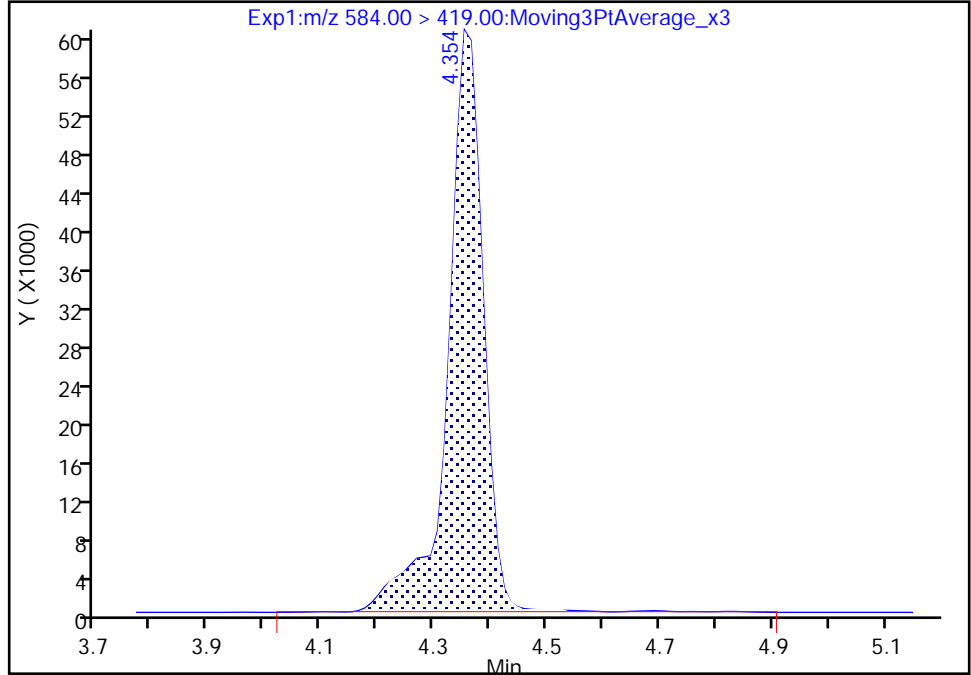
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

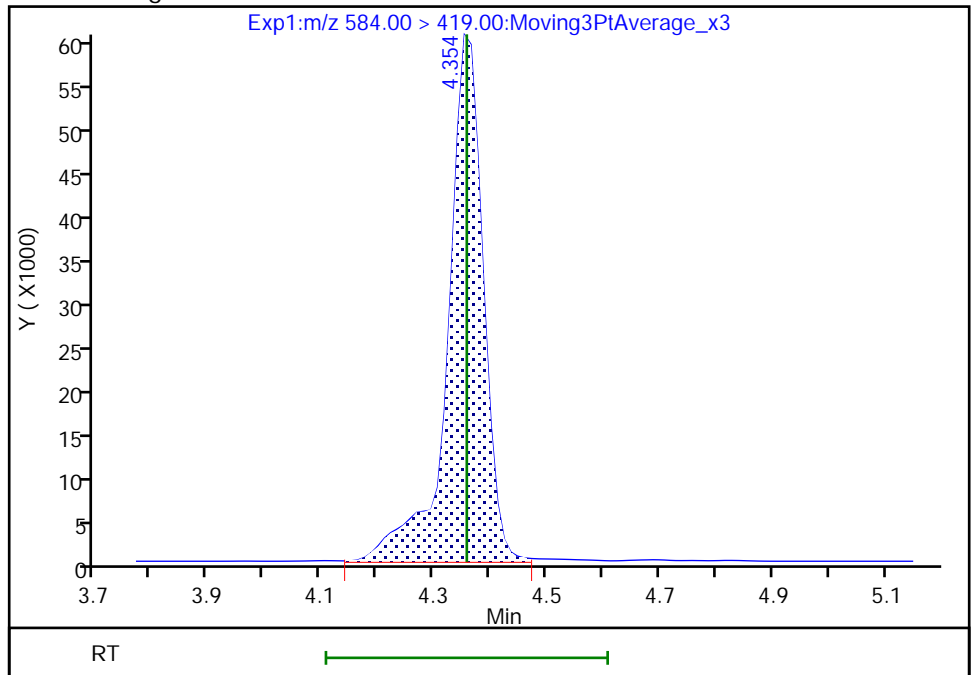
RT: 4.35
Area: 269569
Amount: 0.920012
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 266245
Amount: 0.908667
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:04:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

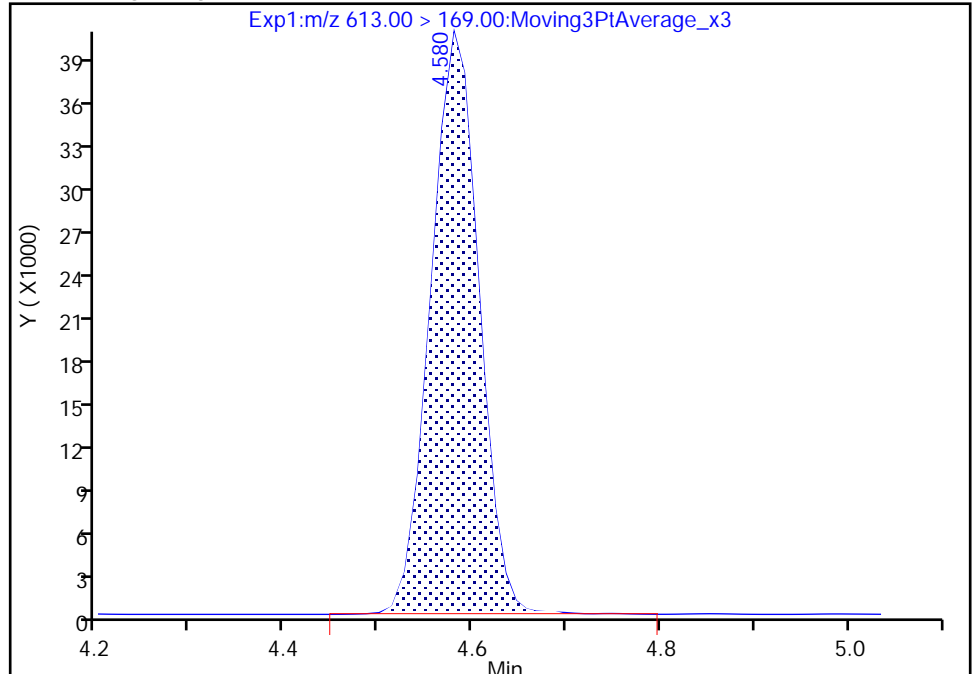
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

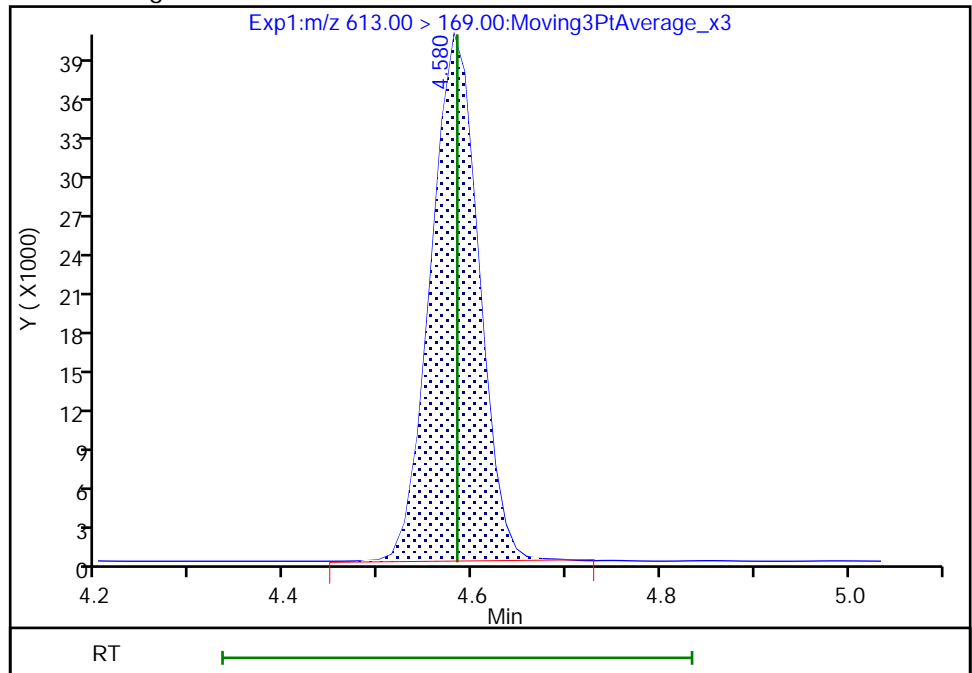
RT: 4.58
Area: 144405
Amount: 0.905429
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 143962
Amount: 0.905429
Amount Units: ng/ml

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

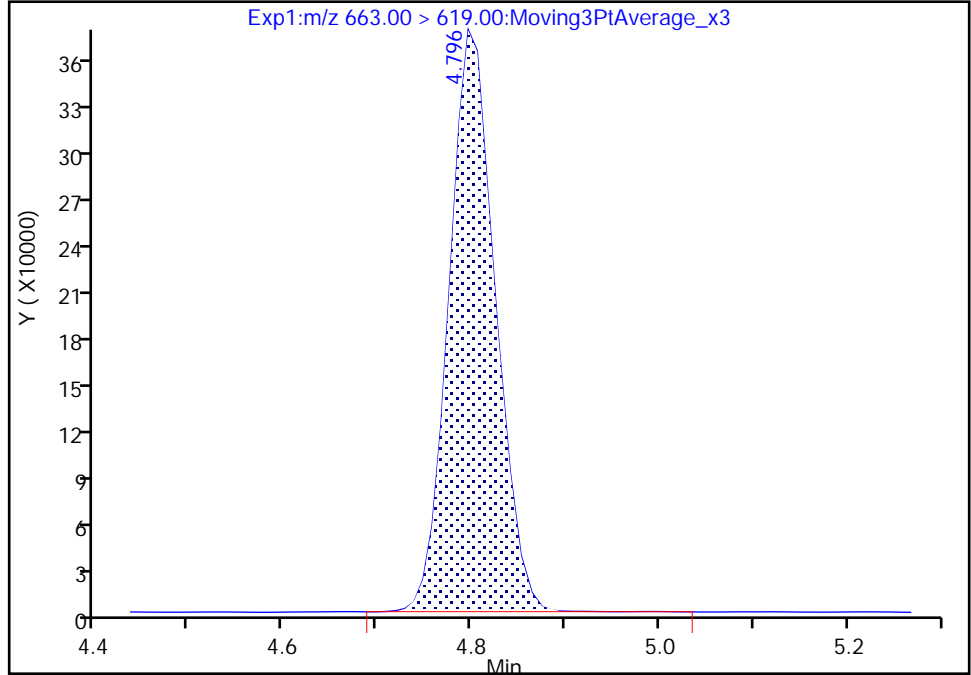
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

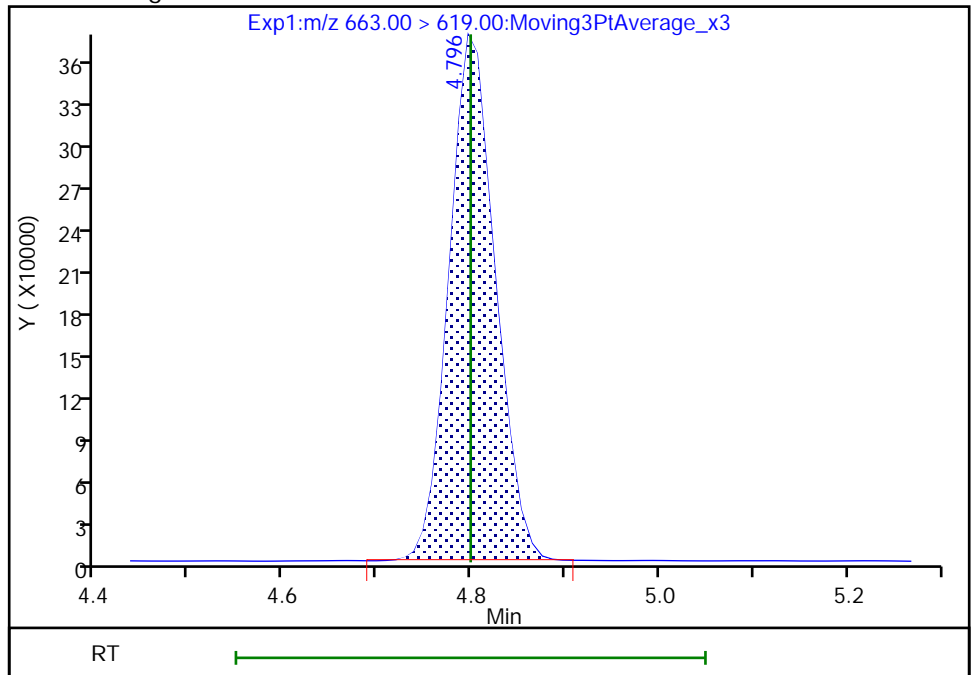
RT: 4.80
Area: 1291991
Amount: 1.036216
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 1287990
Amount: 1.033007
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:04:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

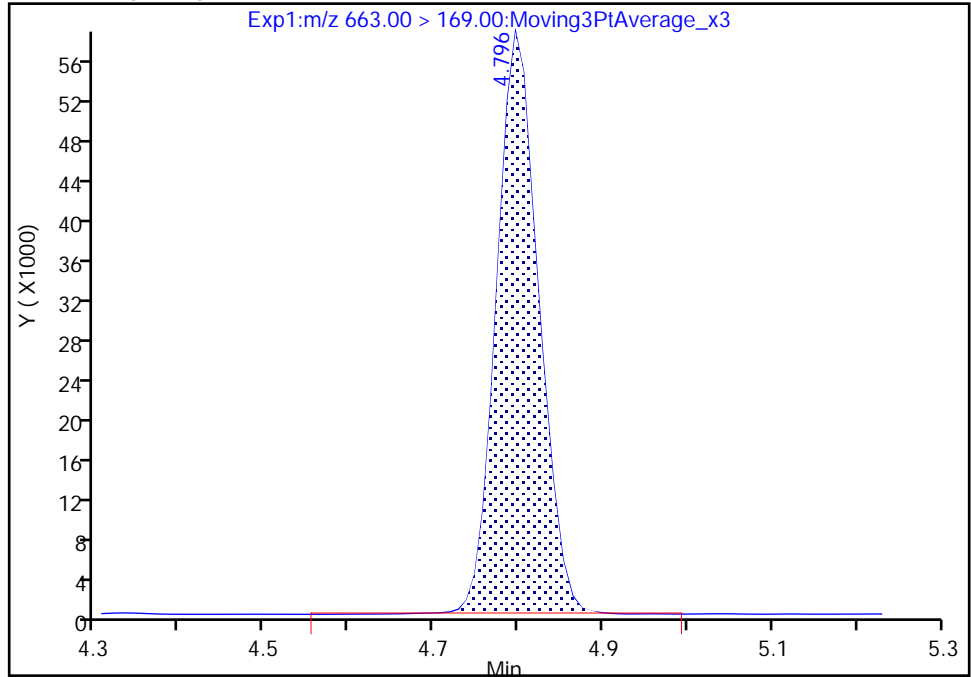
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

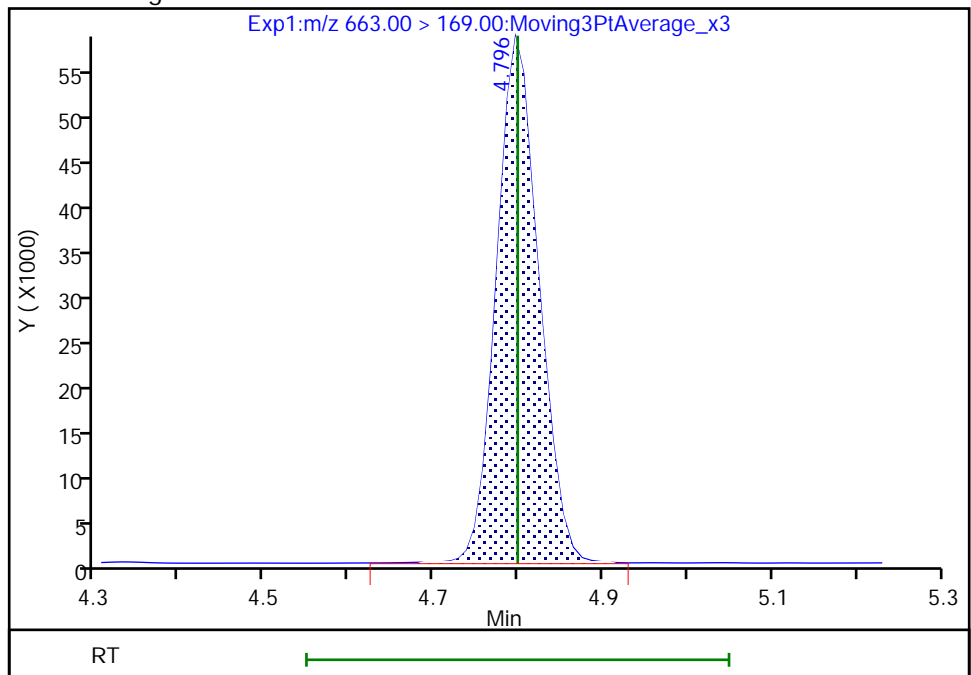
RT: 4.80
Area: 202695
Amount: 1.036216
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 202250
Amount: 1.033007
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

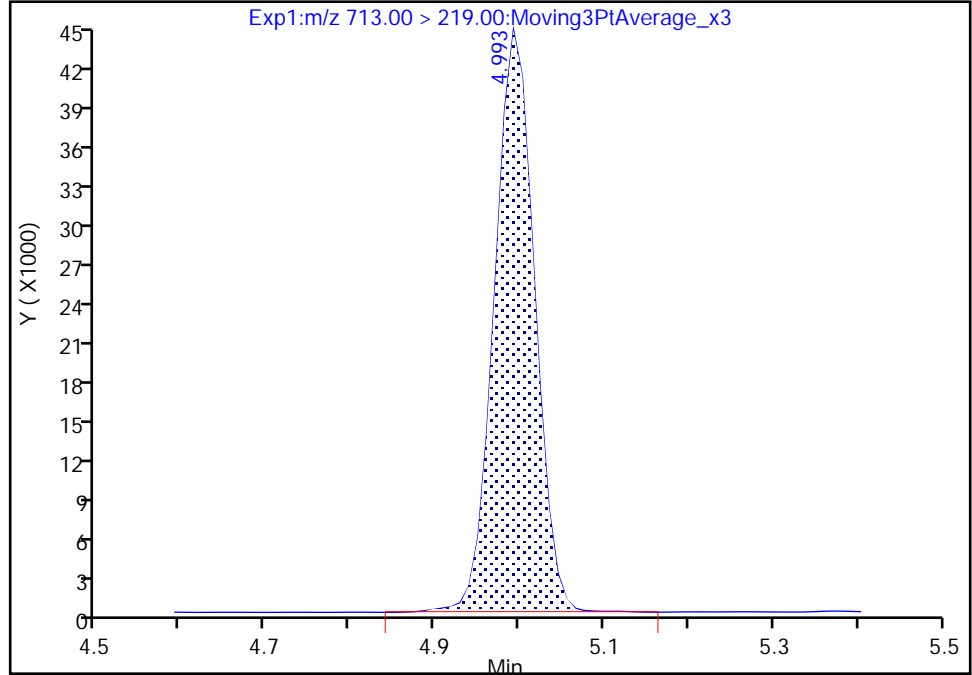
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

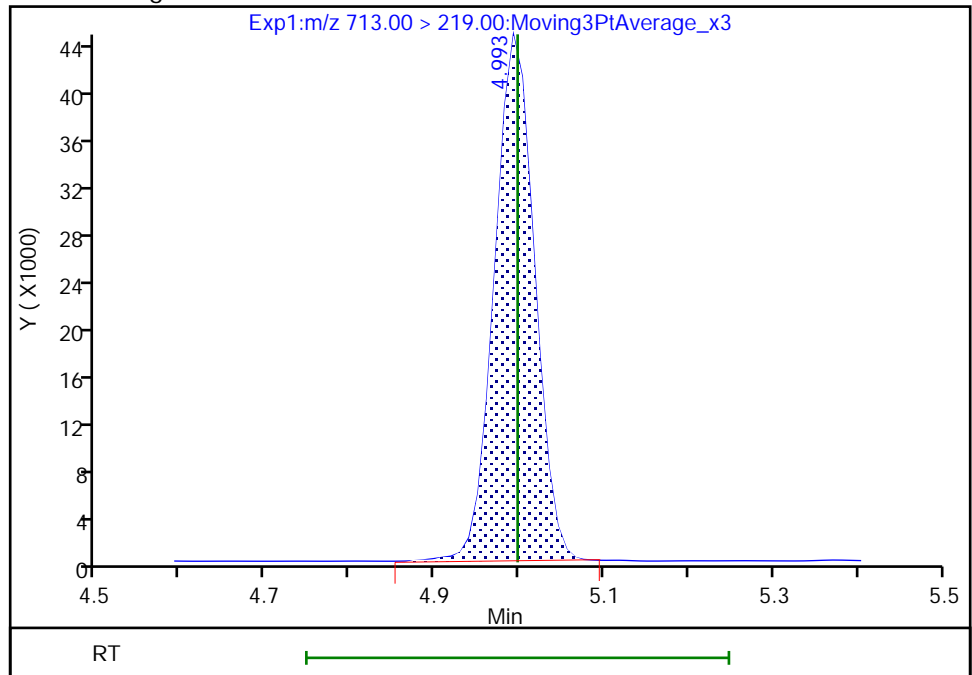
RT: 4.99
Area: 146077
Amount: 0.859589
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 145398
Amount: 0.859589
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

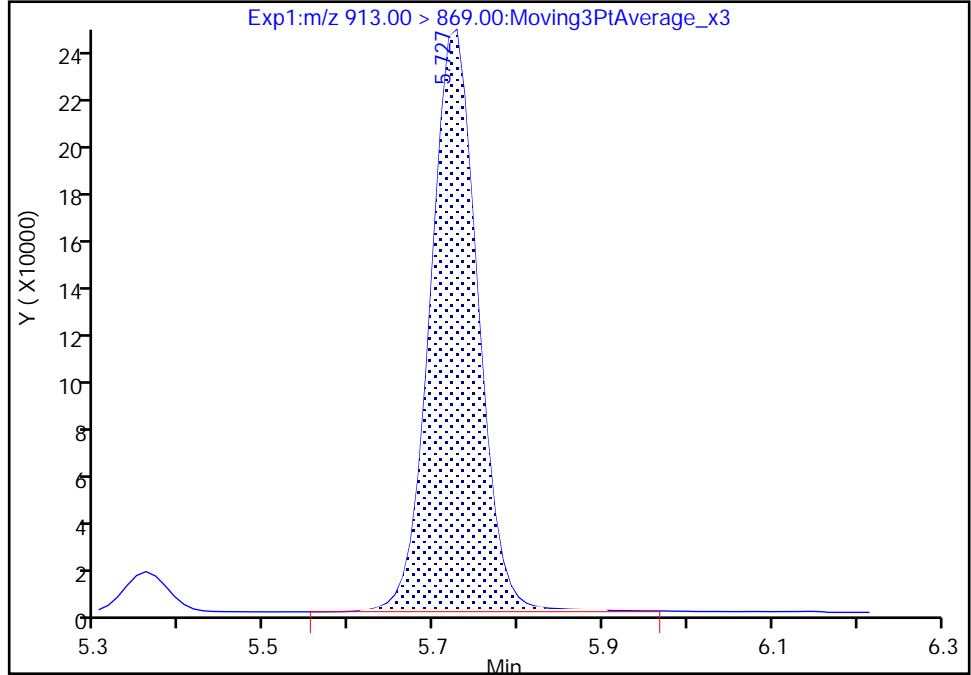
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

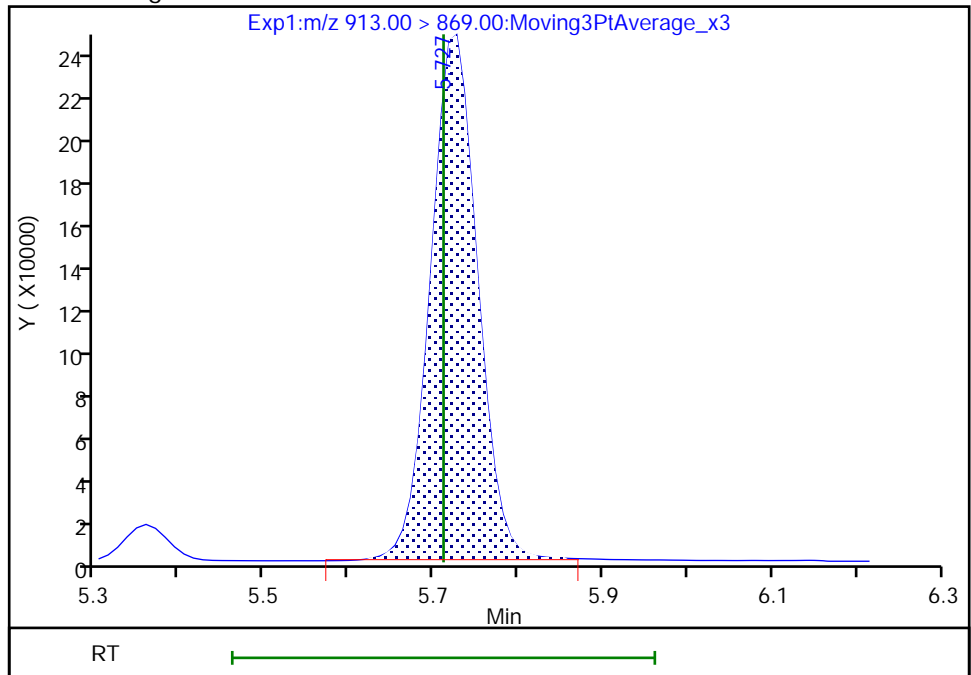
RT: 5.73
Area: 960229
Amount: 0.984317
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 952353
Amount: 0.976244
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

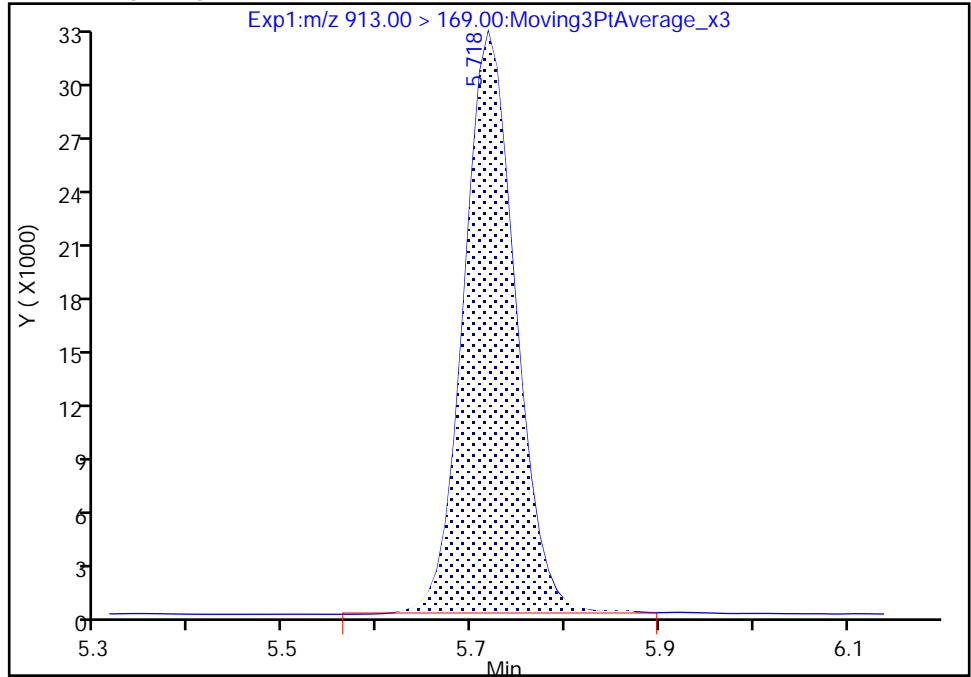
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A20.d
Injection Date: 26-Jan-2023 22:21:31 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: LC812user ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

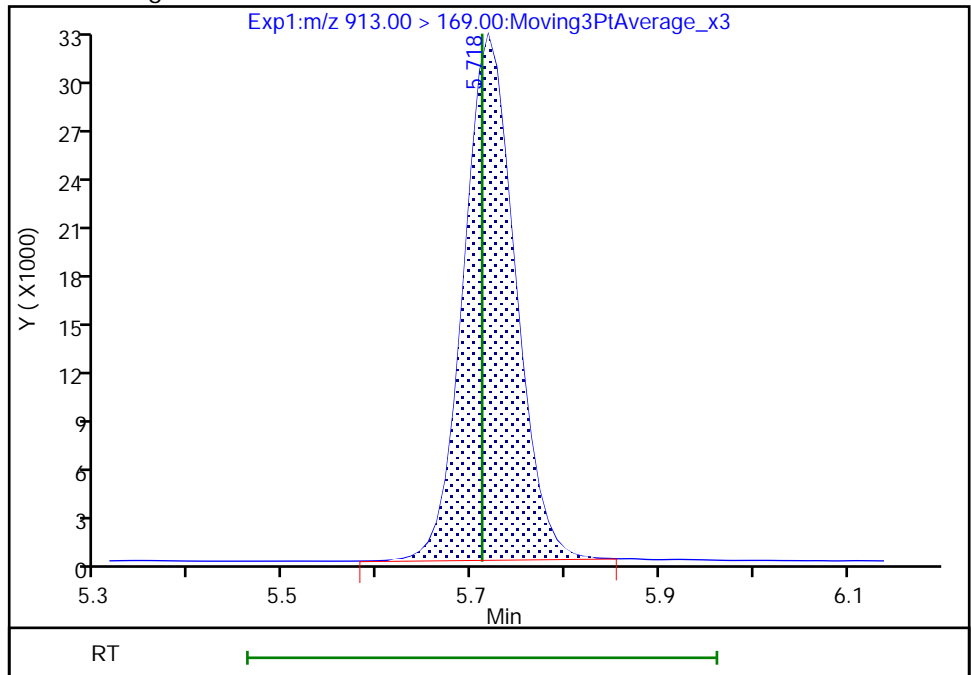
RT: 5.72
Area: 123257
Amount: 0.984317
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 122485
Amount: 0.976244
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 11:05:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187735/1-A
 Matrix: Water Lab File ID: PA230123B02.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 250 (mL) Date Analyzed: 01/23/2023 19:40
 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.: 187759 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.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187735/1-A
 Matrix: Water Lab File ID: PA230123B02.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 250 (mL) Date Analyzed: 01/23/2023 19:40
 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.: 187759 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	98		50-150
STL00995	13C5 PFNA	95		50-150
STL00992	13C4 PFBA	89		50-150
STL00993	13C2 PFHxA	97		50-150
STL00996	13C2 PFDA	84		50-150
STL00997	13C2 PFUnA	97		50-150
STL00994	18O2 PFHxS	78		50-150
STL00998	13C2 PFDoA	86		50-150
STL00991	13C4 PFOS	92		50-150
STL01056	13C8 FOSA	62		50-150
STL01893	13C5 PFPeA	85		50-150
STL02116	13C2 PFTeDA	75		50-150
STL02118	d3-NMeFOSAA	87		50-150
STL02117	d5-NEtFOSAA	84		50-150
STL02279	M2-6:2 FTS	103		50-150
STL02337	13C3 PFBS	78		50-150
STL02280	M2-8:2 FTS	89		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
 Lims ID: MB 200-187735/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 23-Jan-2023 19:40:33 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-187735/1-A
 Misc. Info.: 200-0054084-002 Plate: 1 Rack: 2
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Jan-2023 18:24:23 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1668

First Level Reviewer: khanphomeea Date: 24-Jan-2023 11:17:37
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.077	2.094	-0.017	0.606	1669306	1.11	88.6	17396	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.094	-0.008	1.004	34534	-0.0161		2.6		M
D 3 13C5 PFPeA	267.90 > 223.00	2.370	2.370	0.0	0.692	1295074	1.06	85.0	6120	
D 47 13C3 PFBS	301.90 > 80.00	2.383	2.384	-0.001	0.696	1211714	0.9061	77.9	126091	M
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.397	2.384	0.013	1.006	1283	0.001149	Target=2.10	2.6		RM
298.90 > 99.00	2.397	2.384	0.013	1.006	1429		0.90(1.05-3.15)	1.1		M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.668	2.669	-0.001	0.995	102	0.000291		2.5		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.681	2.669	0.012	0.782	138231	1.28	109	277	
D 7 13C2 PFHxA	315.00 > 270.00	2.706	2.694	0.012	0.790	1539115	1.22	97.3	13640	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.806	2.806	0.0	0.996	38	0.000239		0.9		M
D 64 13C3 HFPO-DA	287.00 > 169.00	2.818	2.806	0.012	0.823	198959	0.9073	72.6	1843	
D 11 18O2 PFHxS	403.00 > 84.00	3.069	3.069	0.0	0.896	900721	0.9256	78.3	5302	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.069	3.069	0.0	1.000	3130	0.003744	Target=3.18	13.0		M
399.00 > 99.00	3.069	3.069	0.0	1.000	1397		2.24(1.59-4.77)	3.1		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.092	3.069	0.023	1.007	2699	0.002199	Target=4.10	0.8		R
363.00 > 169.00	3.092	3.069	0.023	1.007	269		10.03(2.05-6.16)	1.4		M
77 DONA										M
377.00 > 251.00	3.115	3.104	0.011	0.832	1805	0.000576	Target=2.96	1.6		M
377.00 > 85.00	3.127	3.104	0.023	0.835	572		3.16(1.48-4.44)	1.8		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.417	3.417	0.0	0.997	186720	1.22		103	1063	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.435	3.417	0.018	1.005	626	0.001739		1.0		M
D 14 13C4 PFOA										
417.00 > 372.00	3.426	3.426	0.0	1.000	1648315	1.23		98.2	4672	
* 62 13C2 PFOA										
415.00 > 370.00	3.426	3.426	0.0		1638381	1.25			8552	
D 18 13C4 PFOS										
503.00 > 80.00	3.744	3.754	-0.010	1.093	652769	1.10		92.3	5546	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.754	3.754	0.0	1.003	2504	0.003773	Target=4.23	3.0		M
499.00 > 99.00	3.517	3.754	-0.237	0.939	780		3.21(2.11-6.34)	2.4		M
D 19 13C5 PFNA										
468.00 > 423.00	3.764	3.774	-0.010	1.099	1547315	1.18		94.6	8192	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.033	4.043	-0.010	1.077	386	0.000700	Target=2.37	7.0		M
549.00 > 99.00	4.052	4.043	0.009	1.082	200		1.93(1.18-3.55)	2.9		M
D 23 13C2 PFDA										
515.00 > 470.00	4.063	4.074	-0.011	1.186	1403415	1.05		83.7	5333	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.074	4.085	-0.011	1.189	203791	1.06		88.6	1469	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.074	4.085	-0.011	1.000	403	0.001305		4.2		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.132	4.144	-0.012	1.000	1119	0.001653		4.8		M
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.206	841571	0.7717		61.7	2974	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.215	4.226	-0.011	1.230	286145	1.08		86.8	1694	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.226	4.226	0.0	1.003	2091	0.0101		17.0		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.334	4.346	-0.012	1.265	1402777	1.21		96.9	11666	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.334	4.346	-0.012	1.000	2463	0.002010	Target=10.33	1.0		RM
563.00 > 169.00	4.322	4.346	-0.024	0.997	46		53.54(5.17-15.50)	1.4		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.346	4.358	-0.012	1.000	2332	0.0118		19.3		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.346	4.358	-0.012	1.269	266418	1.05		84.1	715	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.429	4.452	-0.023	1.183	1054	0.000430			4.2	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.584	4.584	0.0	1.003	2143	0.002117	Target=8.10		0.4	M
613.00 > 169.00	4.572	4.584	-0.012	1.000	196		10.93(4.05-12.15)		3.5	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.572	4.584	-0.012	1.334	1242666	1.07		85.6	4474	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.606	4.606	0.0	1.131	407	0.002085			12.4	M
75 Perfluorododecanesulfonic acid (RM
699.00 > 80.00	4.751	4.770	-0.019	1.269	167	0.001001	Target=0.51		7.0	RM
699.00 > 99.00	4.751	4.770	-0.019	1.269	46		3.63(0.26-0.77)		1.5	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.998	4.998	0.0	1.002	127	0.001358	Target=0.83		3.5	M
713.00 > 219.00	4.987	4.998	-0.011	1.000	251		0.51(0.42-1.25)		6.9	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.987	4.998	-0.011	1.456	936345	0.9375		75.0	4133	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.350	5.362	-0.012	1.000	11838	-0.002169	Target=6.74		2.8	M
813.00 > 169.00	5.350	5.362	-0.012	1.000	2019		5.86(3.37-10.11)		38.5	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.362	-0.012	1.562	1191122	0.9731		77.8	5153	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.702	5.711	-0.009	1.066	2586	0.003355	Target=6.99		0.9	M
913.00 > 169.00	5.693	5.711	-0.018	1.064	349		7.41(3.50-10.49)		10.8	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d

Injection Date: 23-Jan-2023 19:40:33

Instrument ID: LC812

Lims ID: MB 200-187735/1-A

Client ID:

Operator ID: LC812user

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

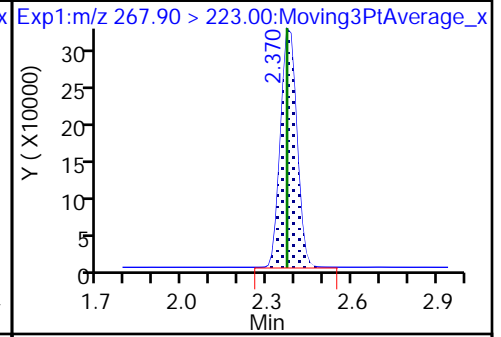
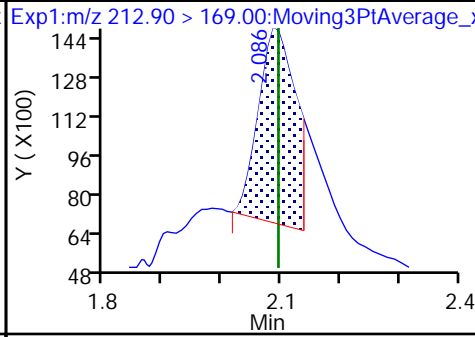
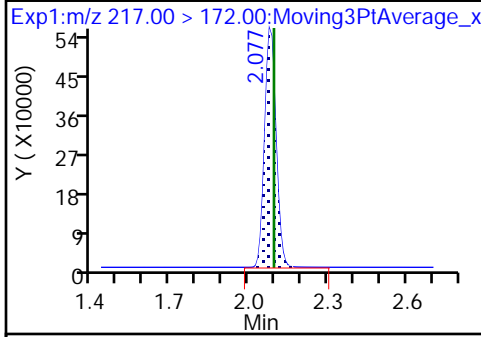
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

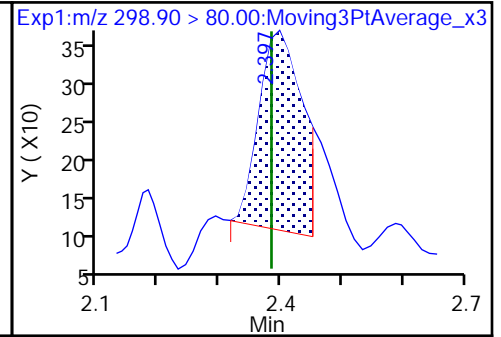
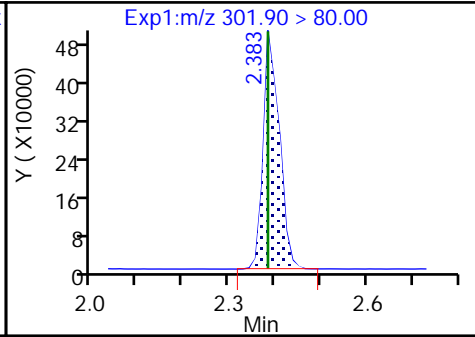
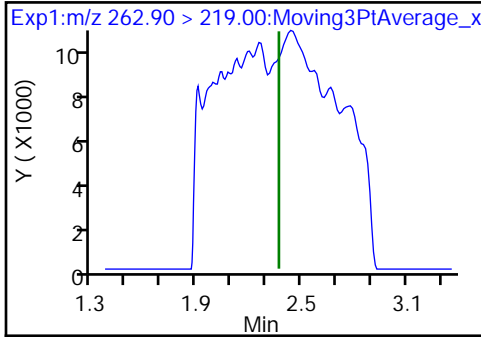
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

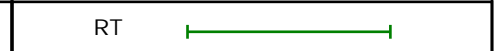
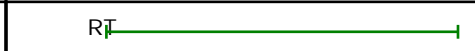
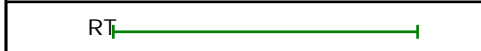
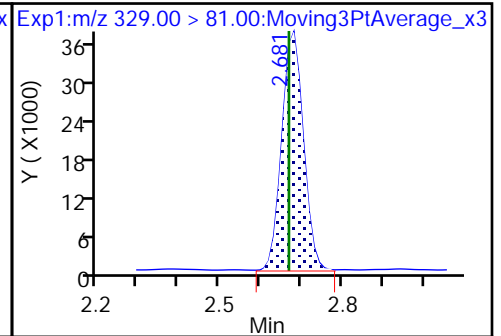
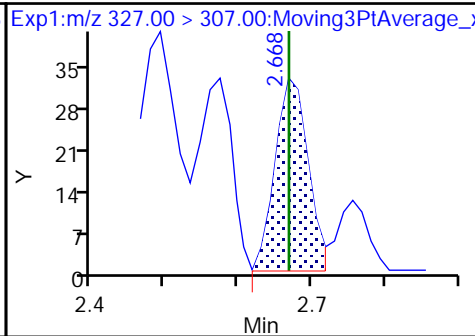
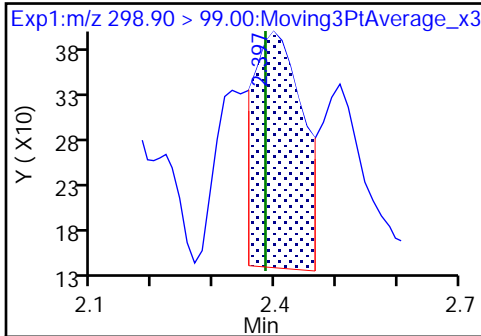
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

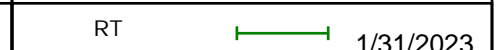
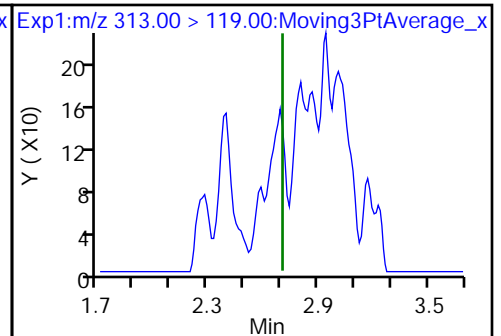
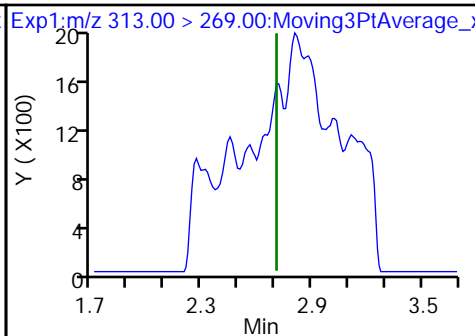
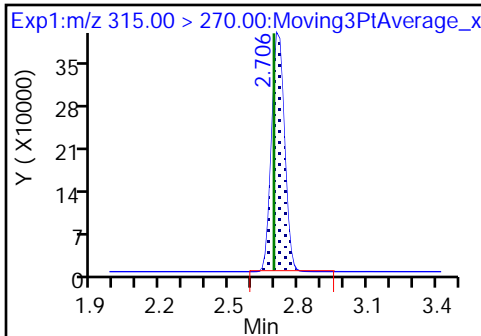
61 1H,1H,2H,2H-perfluorohexanesulfo (M) 60 M2-4:2 FTS



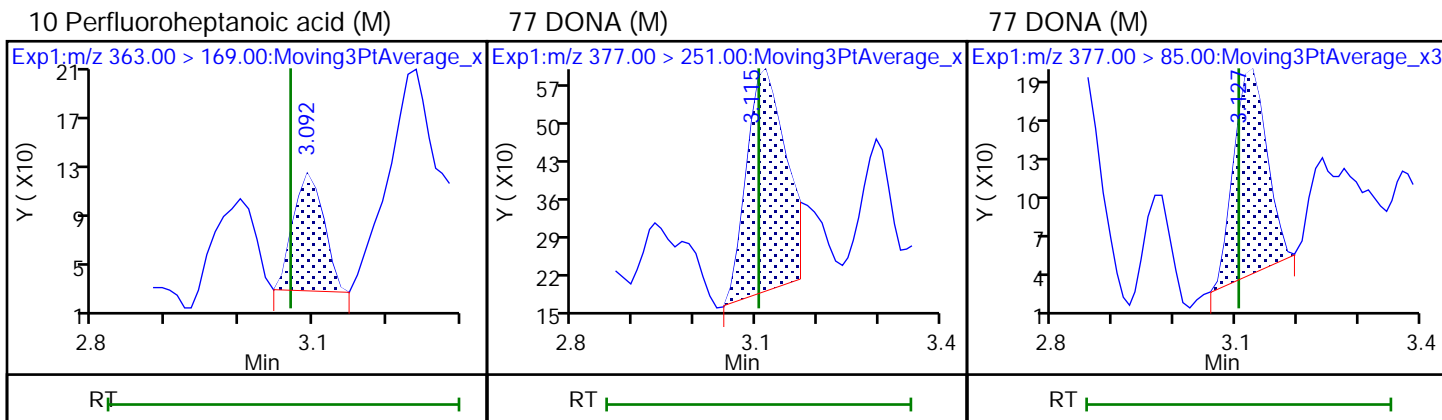
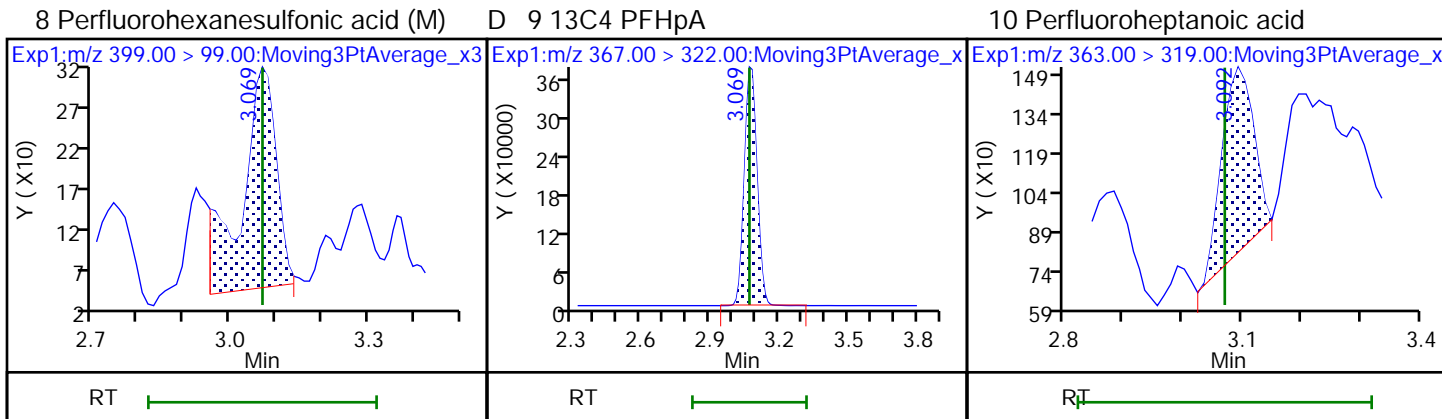
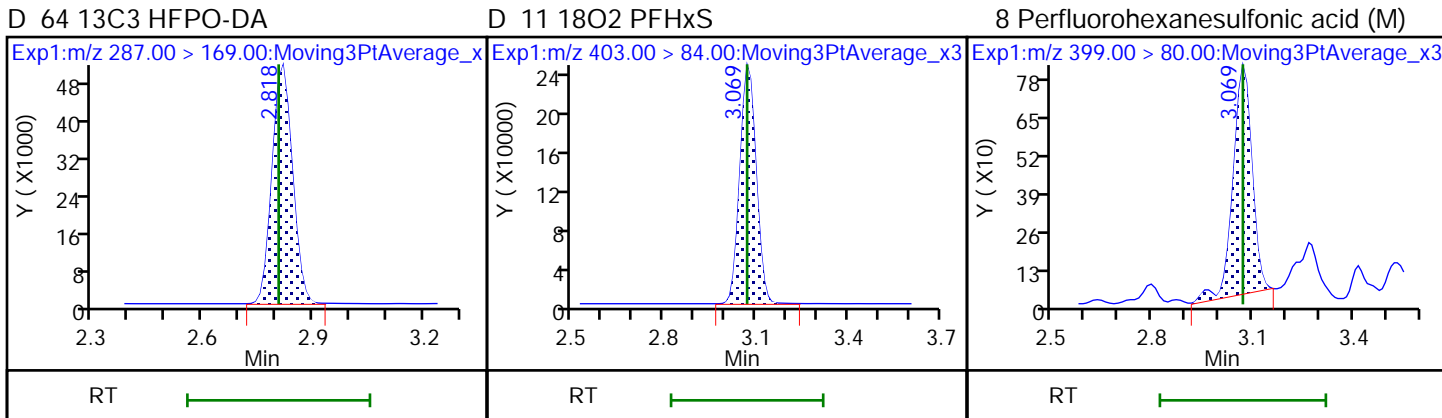
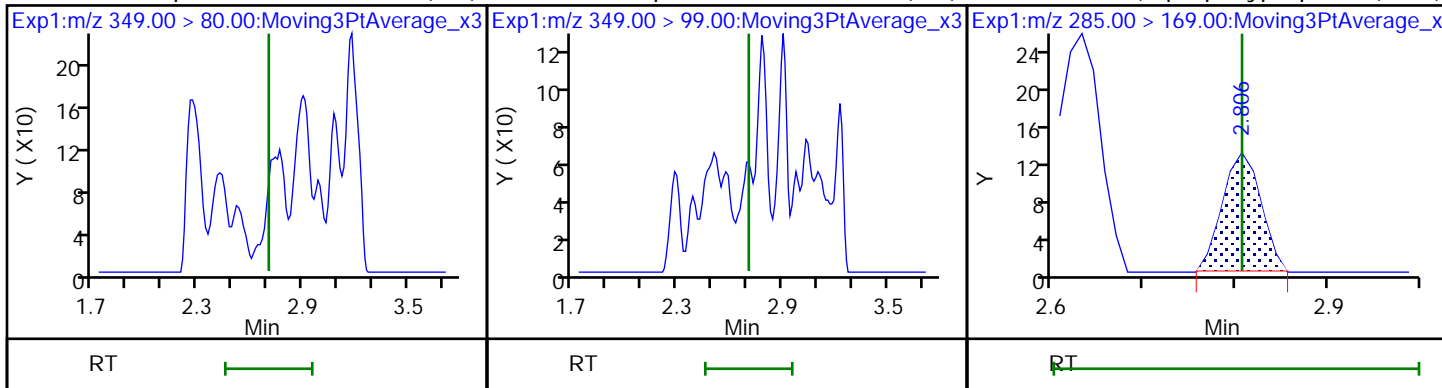
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)

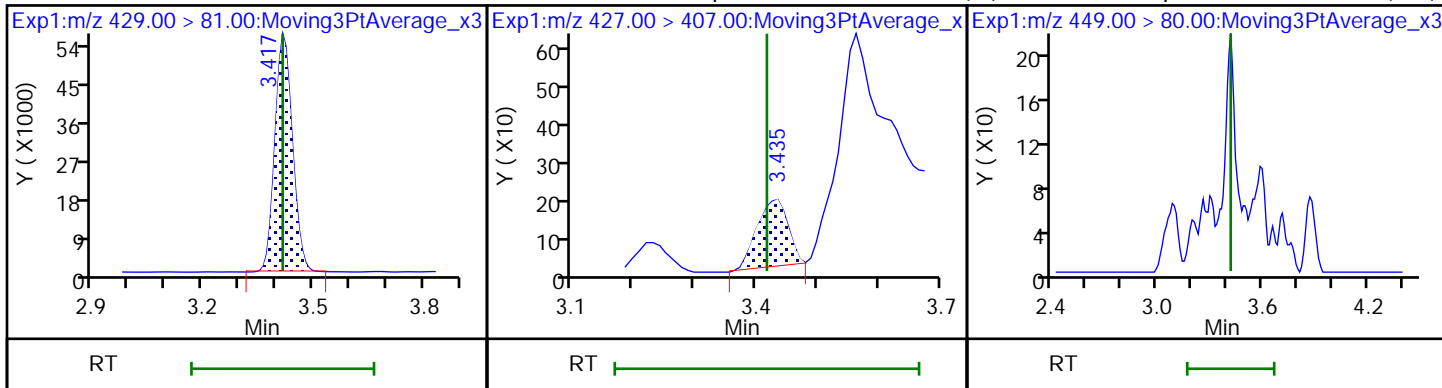


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



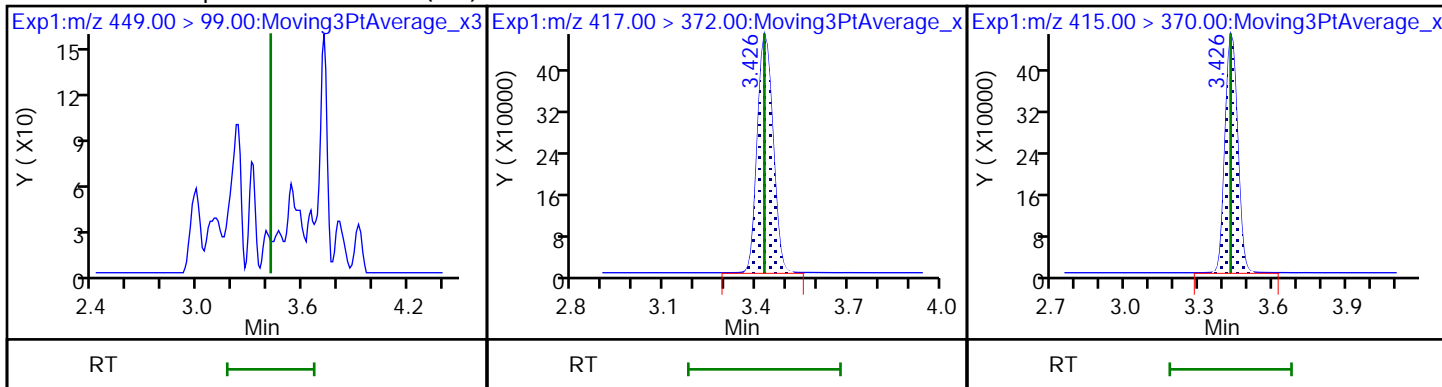
D 12 M2-6:2 FTS

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



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

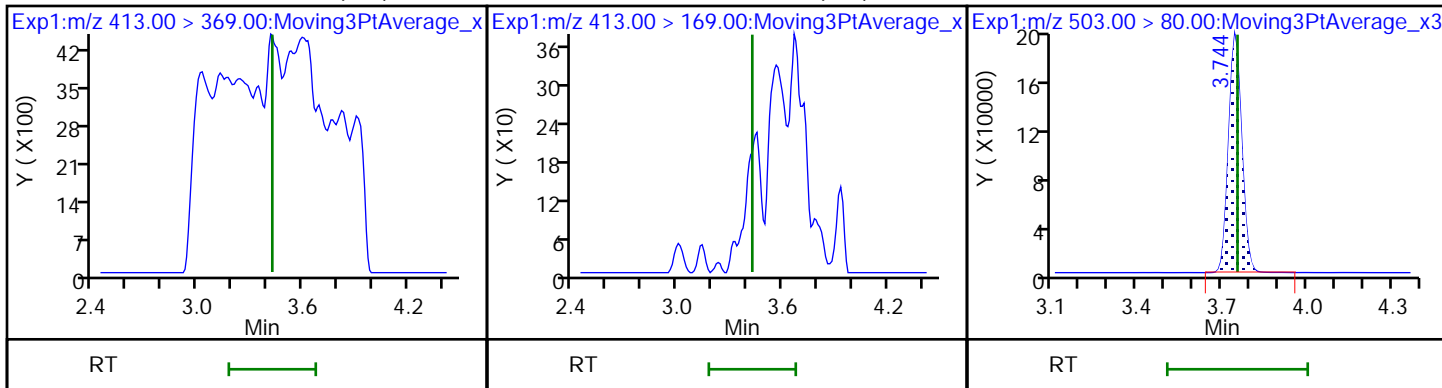
* 62 13C2 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

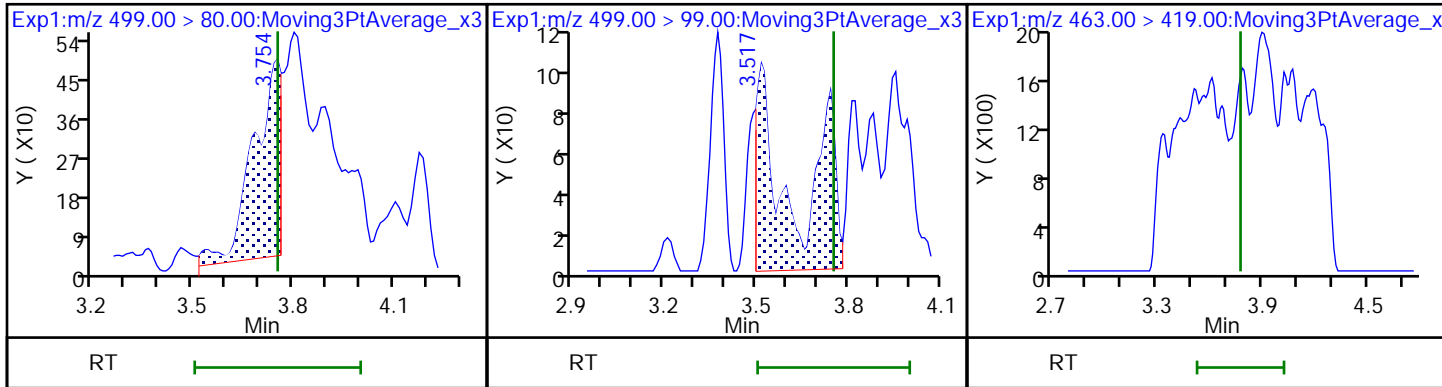
D 18 13C4 PFOS

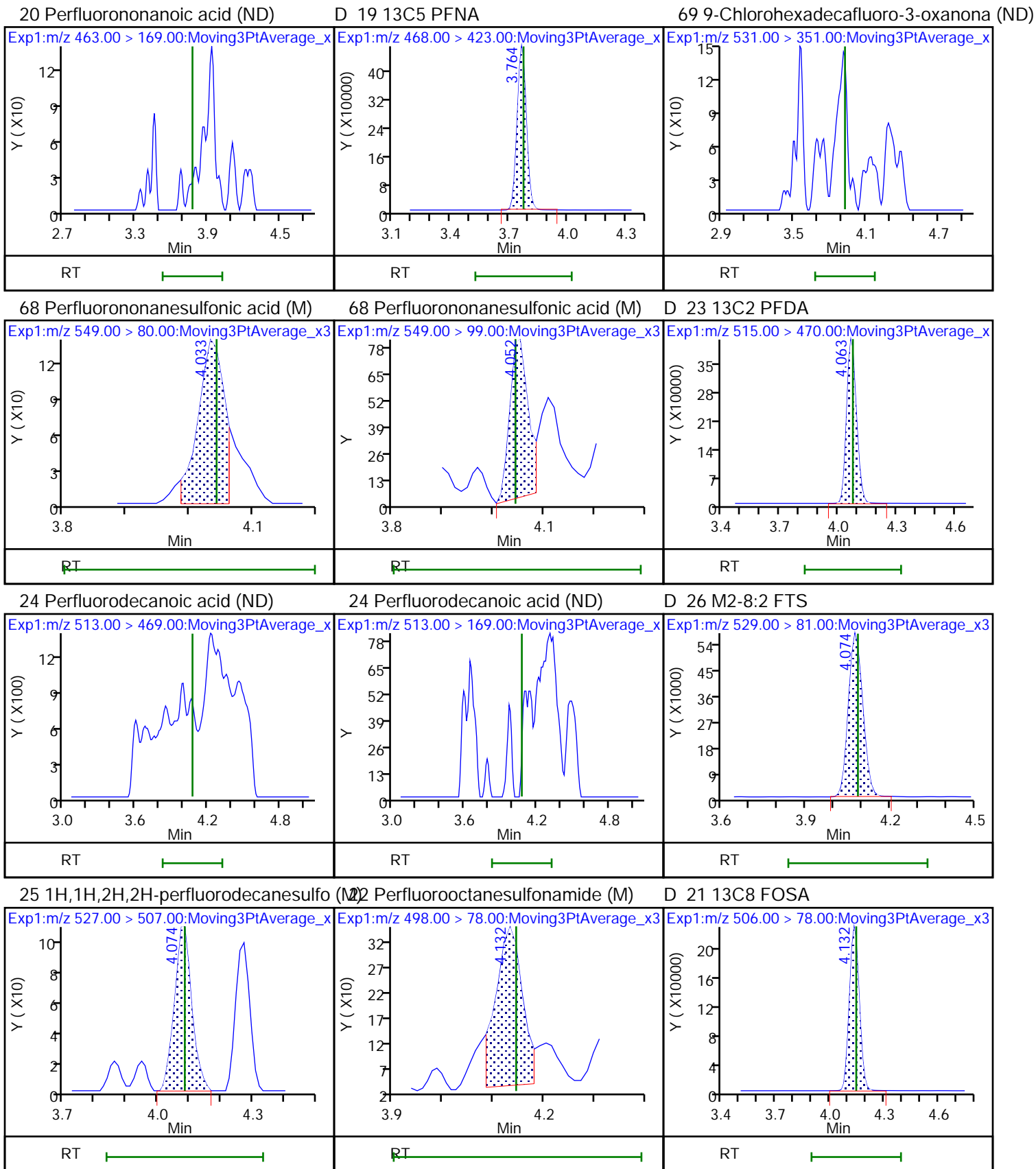


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

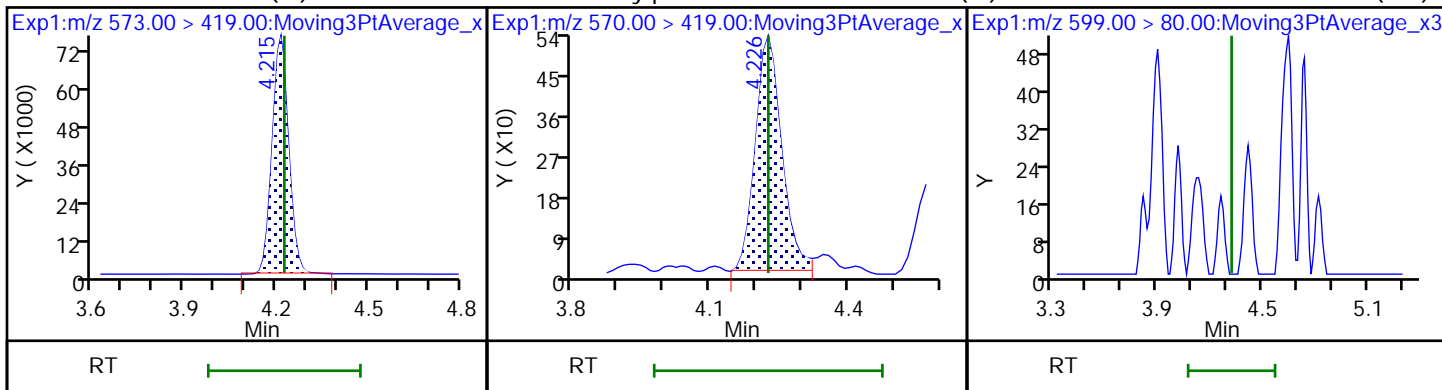
20 Perfluorononanoic acid (ND)





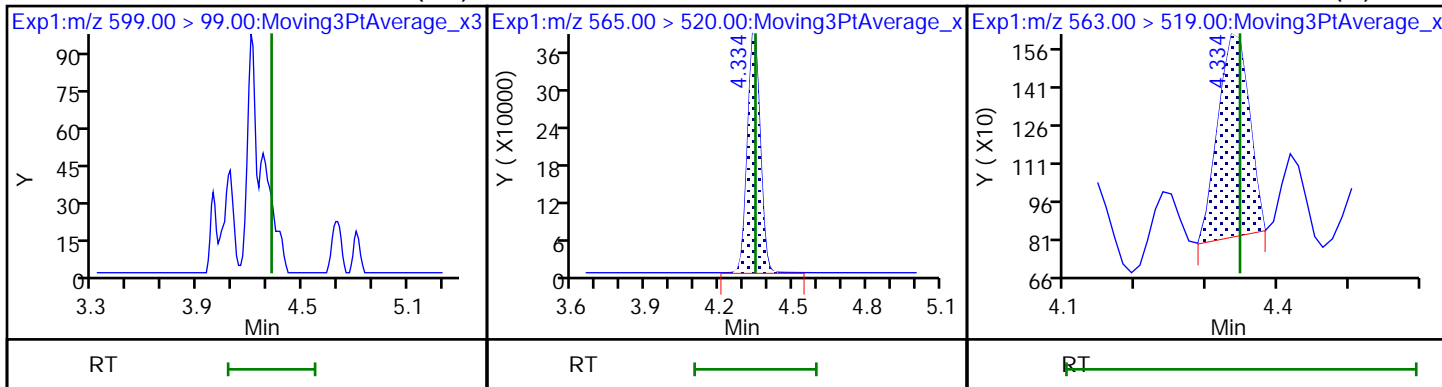
D 27 d3-NMeFOSAA (M)

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



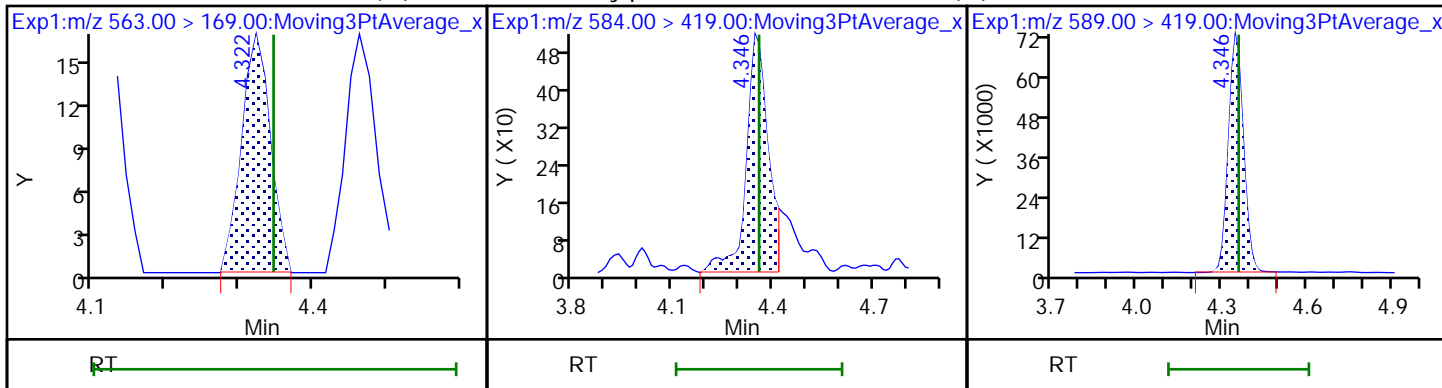
29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



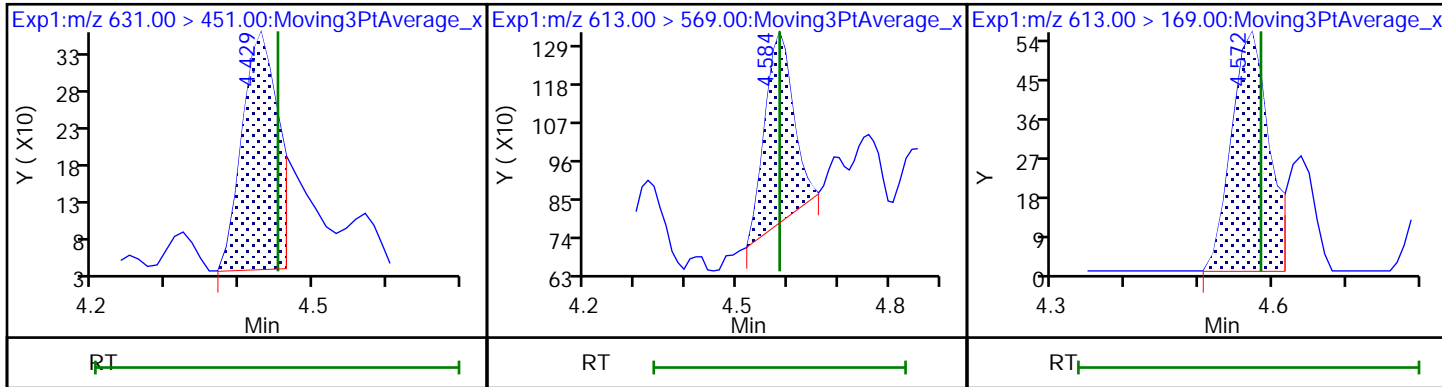
31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (ND) 32 d5-NEtFOSAA



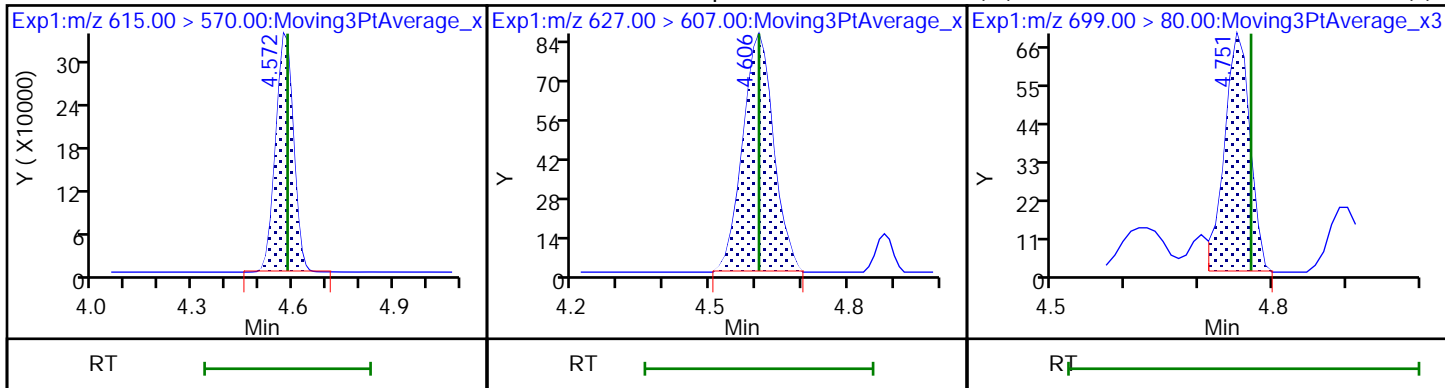
66 11-Chloroeicosafuoro-3-oxaundec (M) 37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



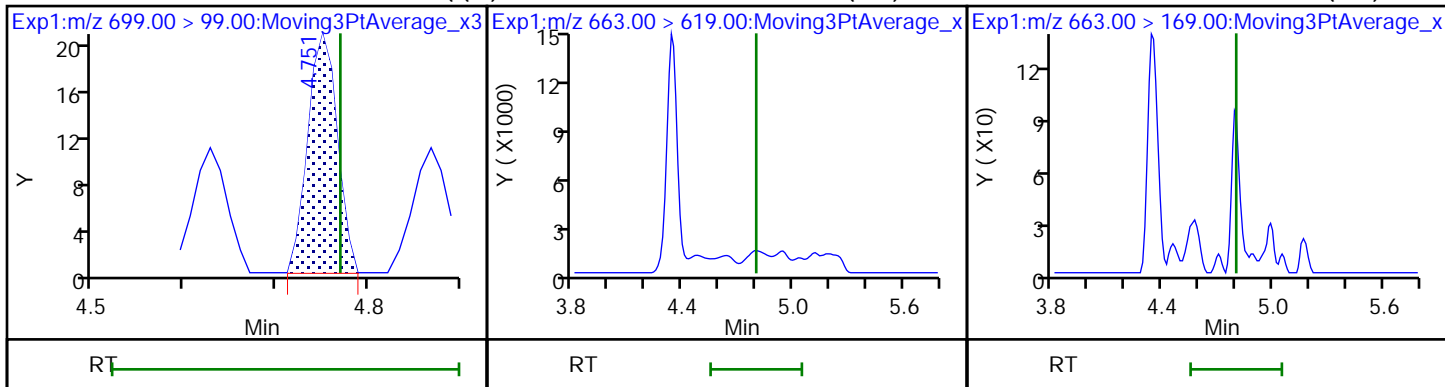
D 36 13C2 PFDoA

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



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (ND)

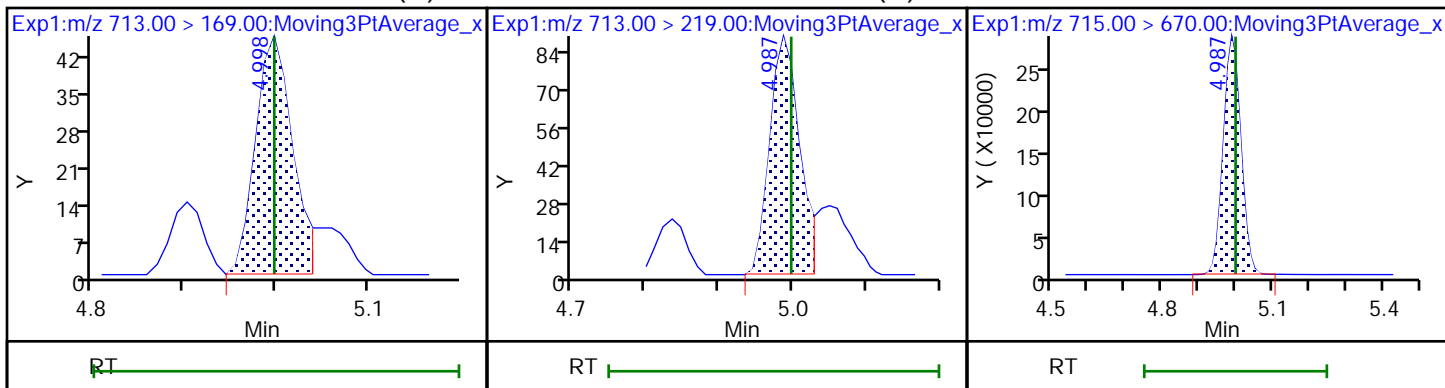
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

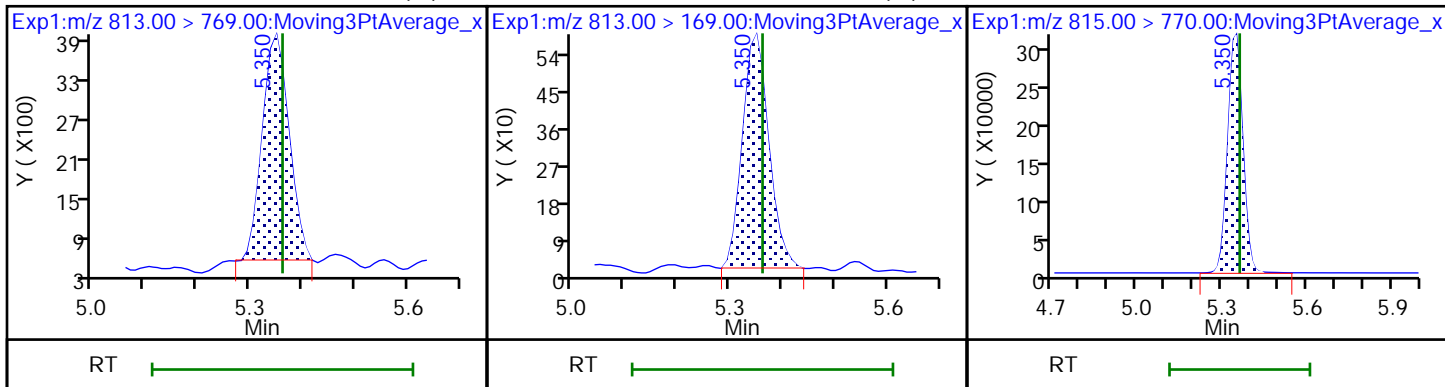
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

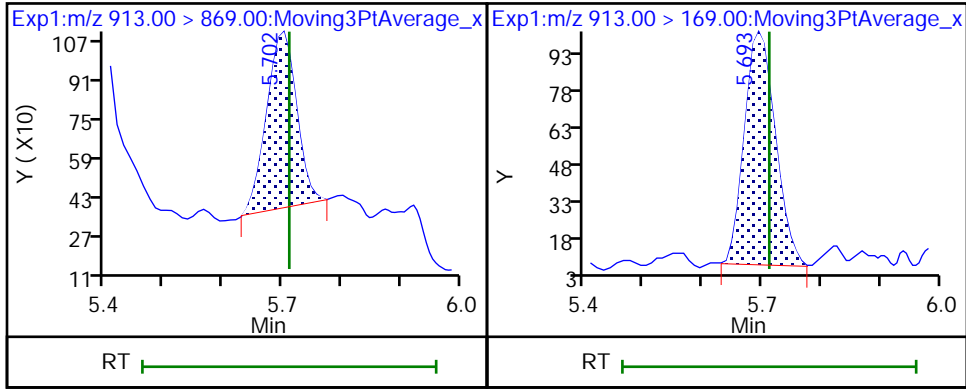
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

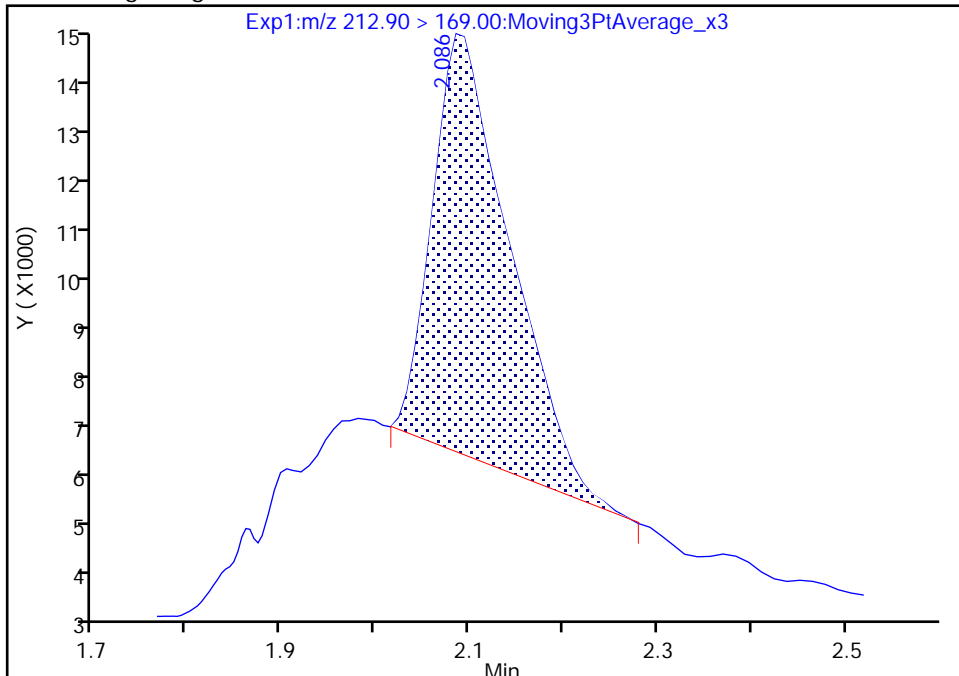
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Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

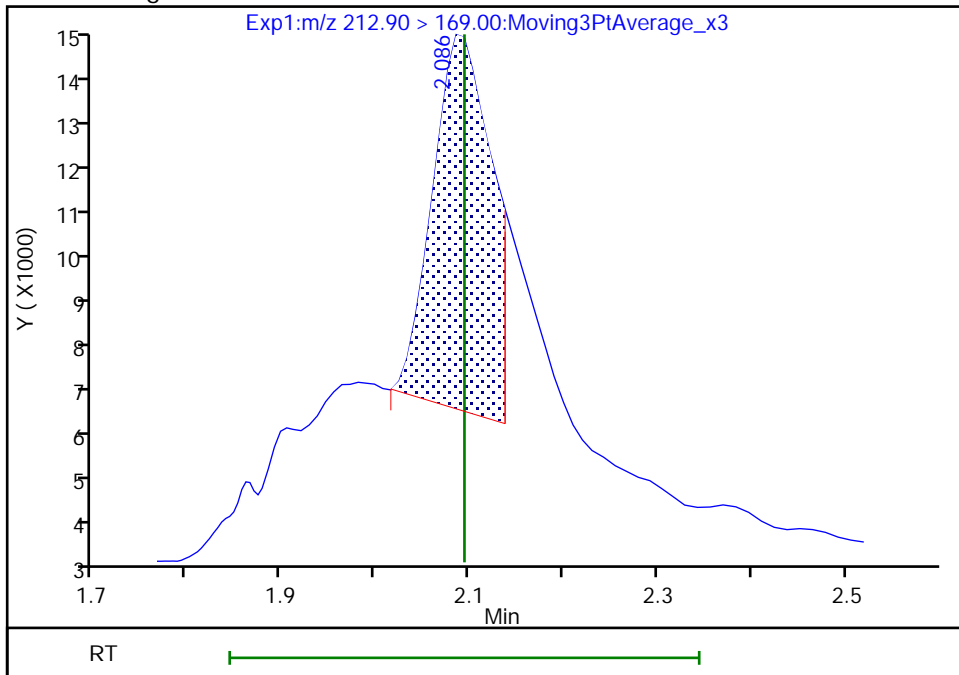
RT: 2.09
Area: 46872
Amount: -0.006348
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 34534
Amount: -0.016100
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:12:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

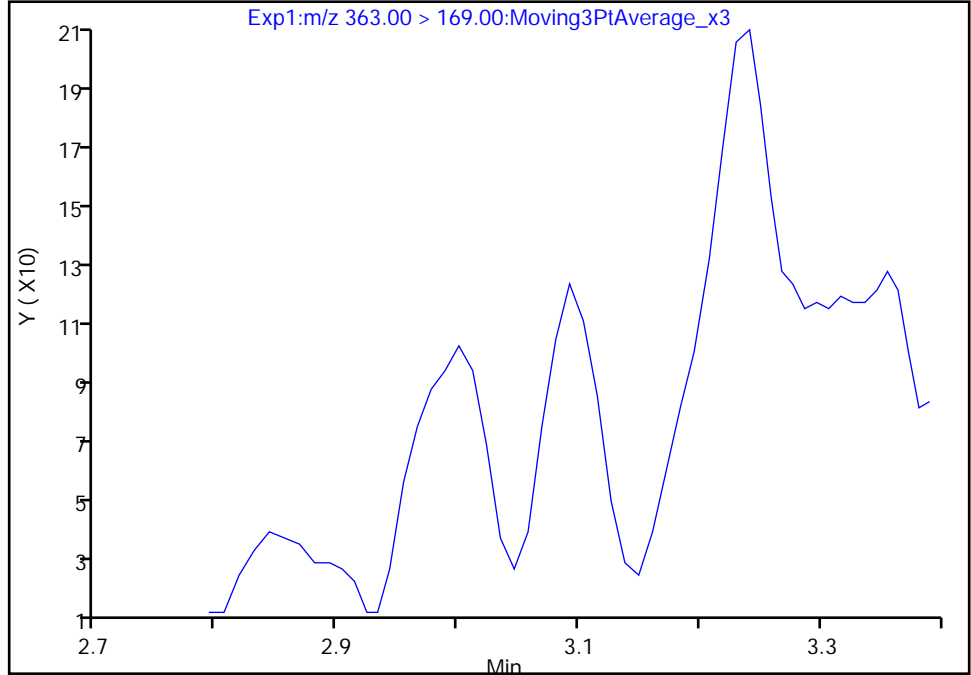
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

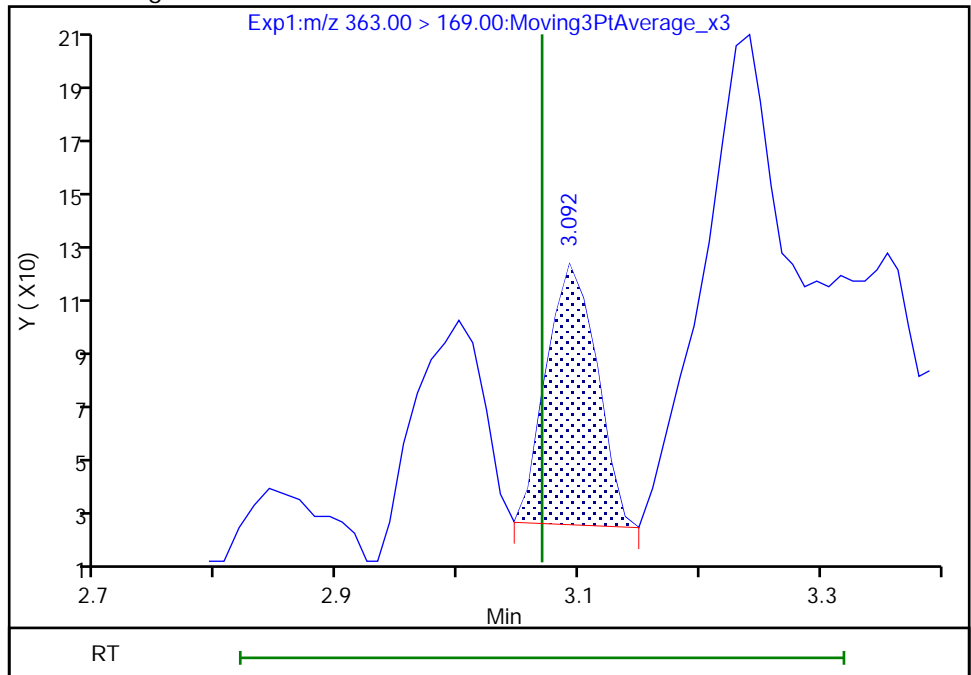
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 269
Amount: 0.002199
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:13:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

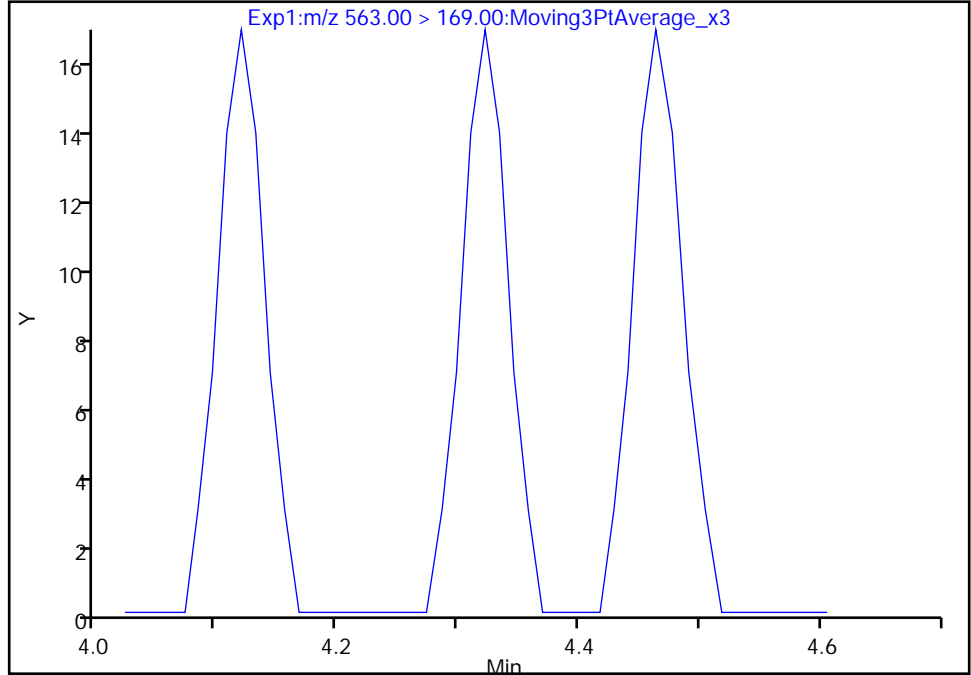
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

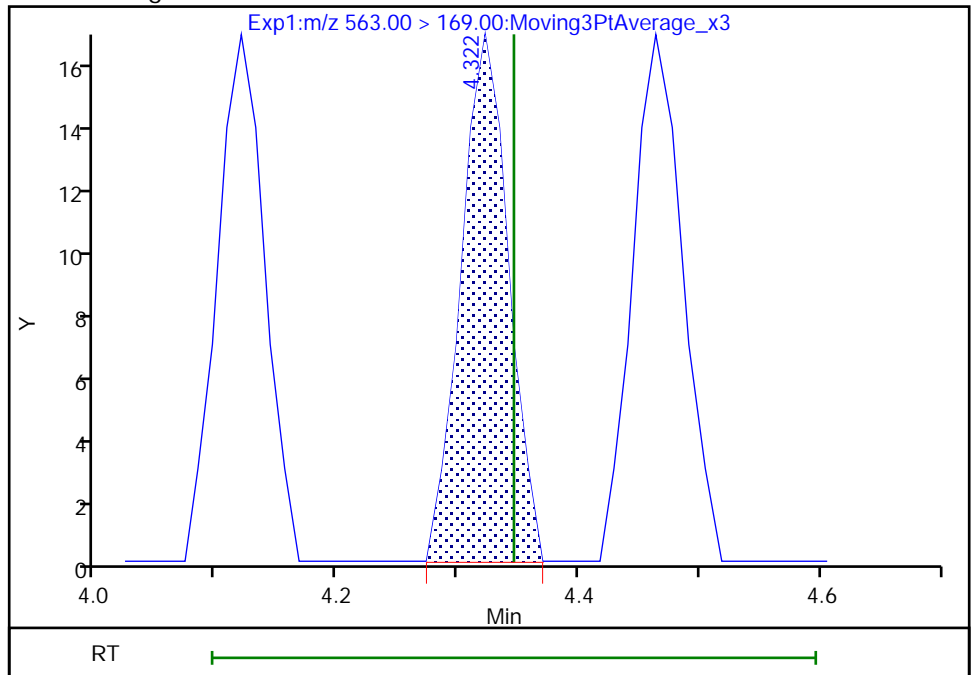
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 46
Amount: 0.002010
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:15:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

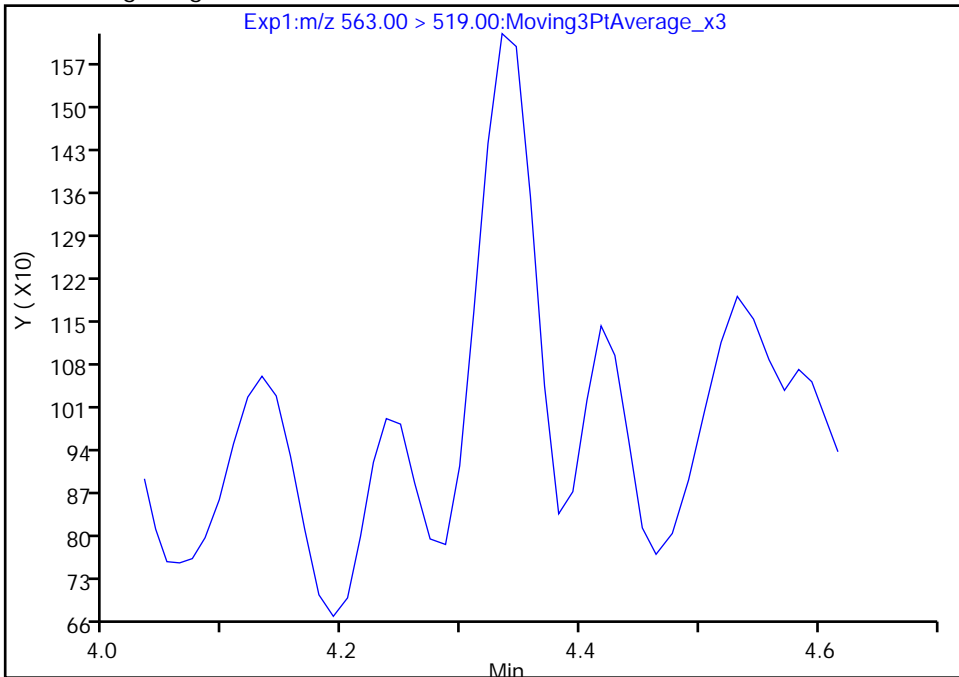
Data File:	\\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d		
Injection Date:	23-Jan-2023 19:40:33	Instrument ID:	LC812
Lims ID:	MB 200-187735/1-A		
Client ID:			
Operator ID:	LC812user	ALS Bottle#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	2

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

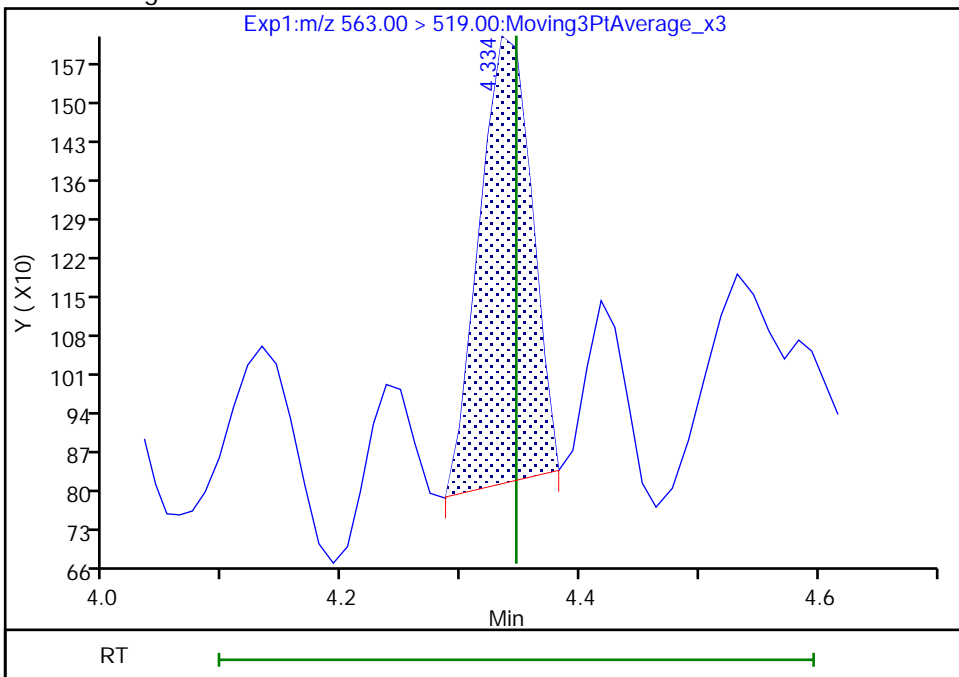
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.33
 Area: 2463
 Amount: 0.002010
 Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:15:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

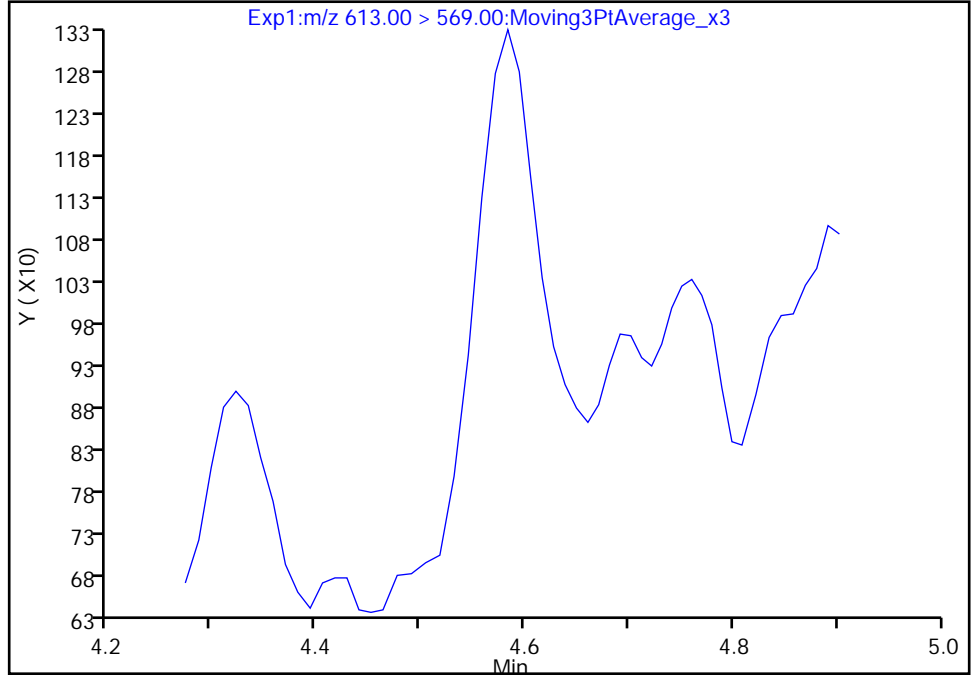
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

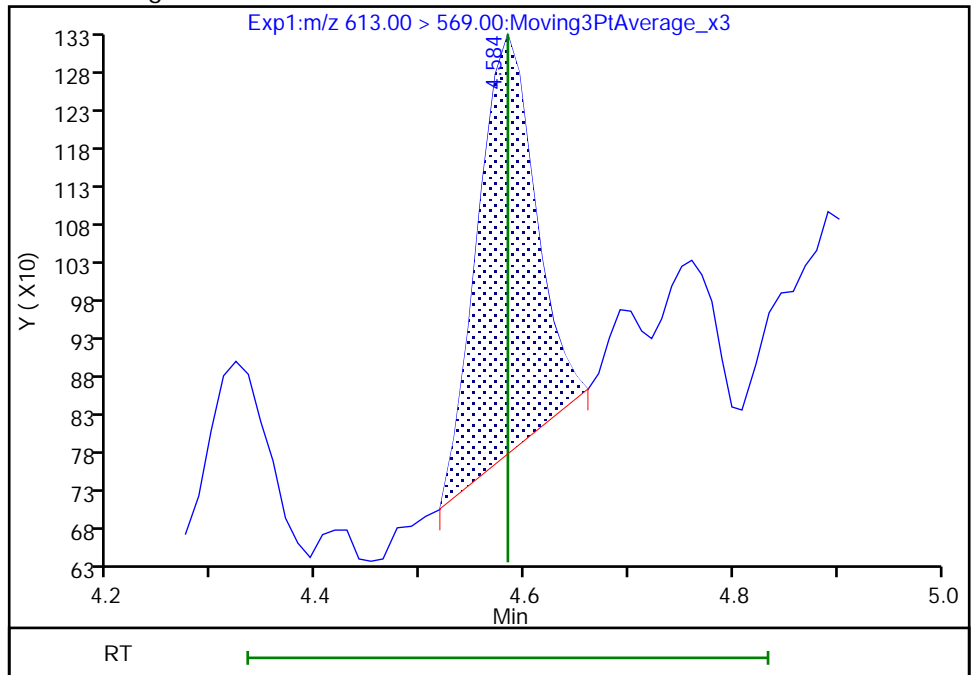
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 2143
Amount: 0.002117
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:16:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

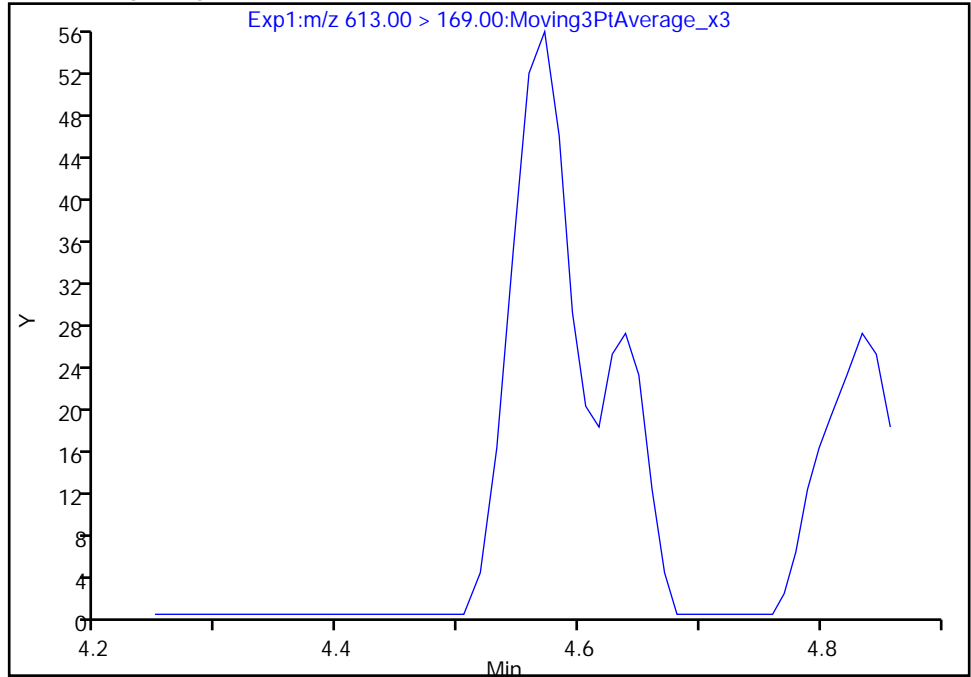
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

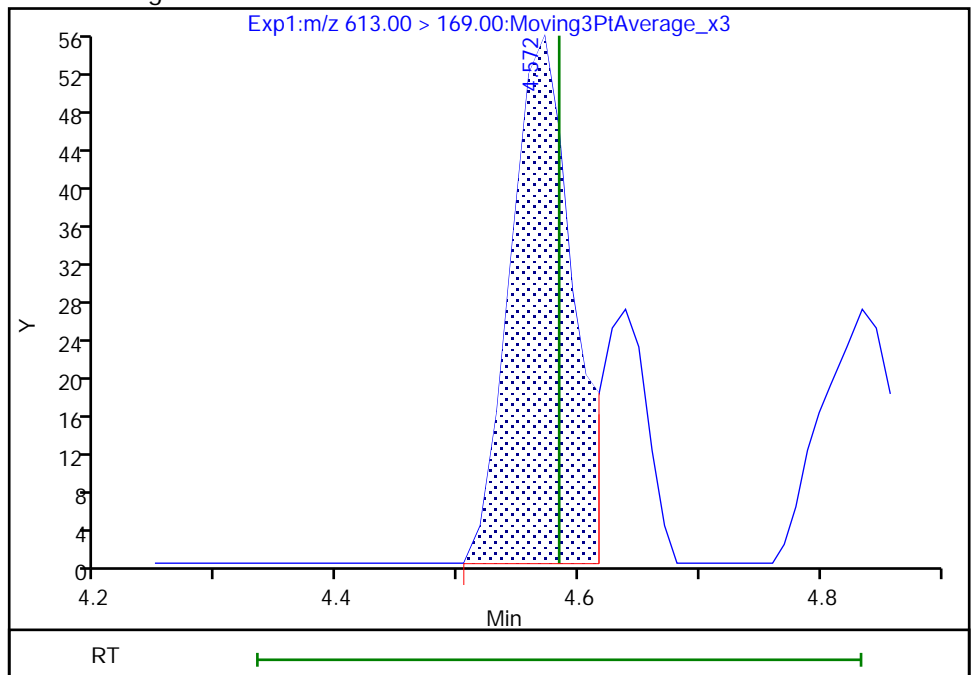
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.57
Area: 196
Amount: 0.002117
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:16:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

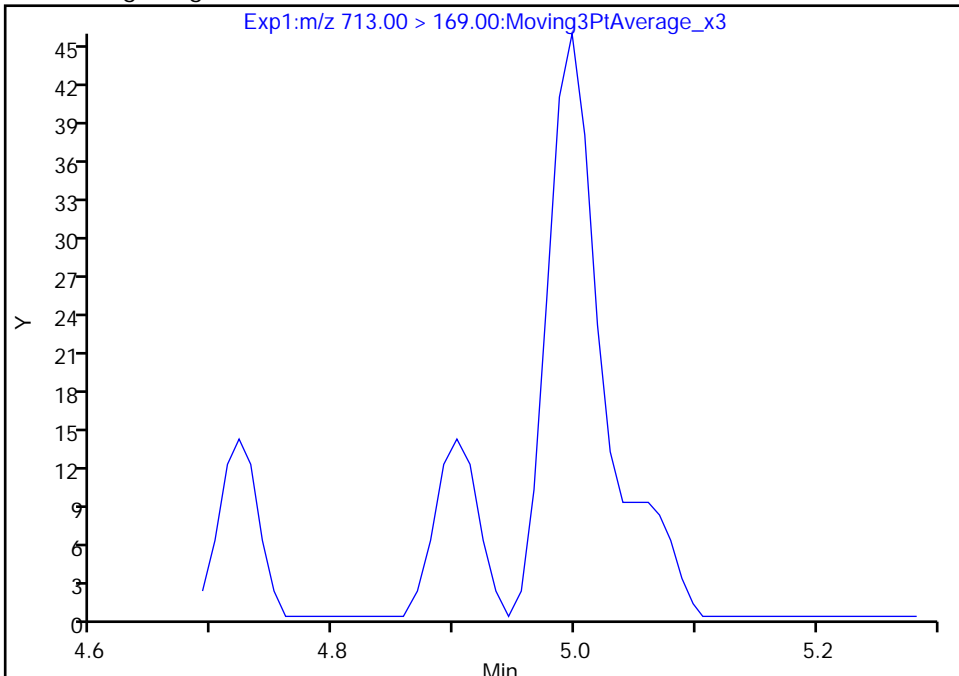
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

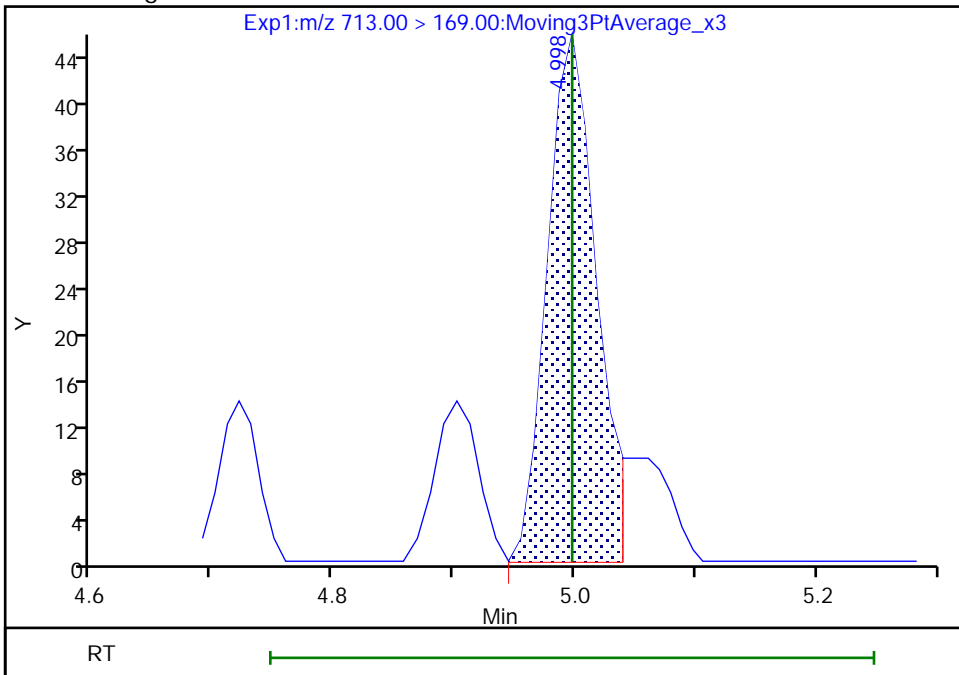
Processing Integration Results

Not Detected
Expected RT: 5.00



Manual Integration Results

RT: 5.00
Area: 127
Amount: 0.001358
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:17:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

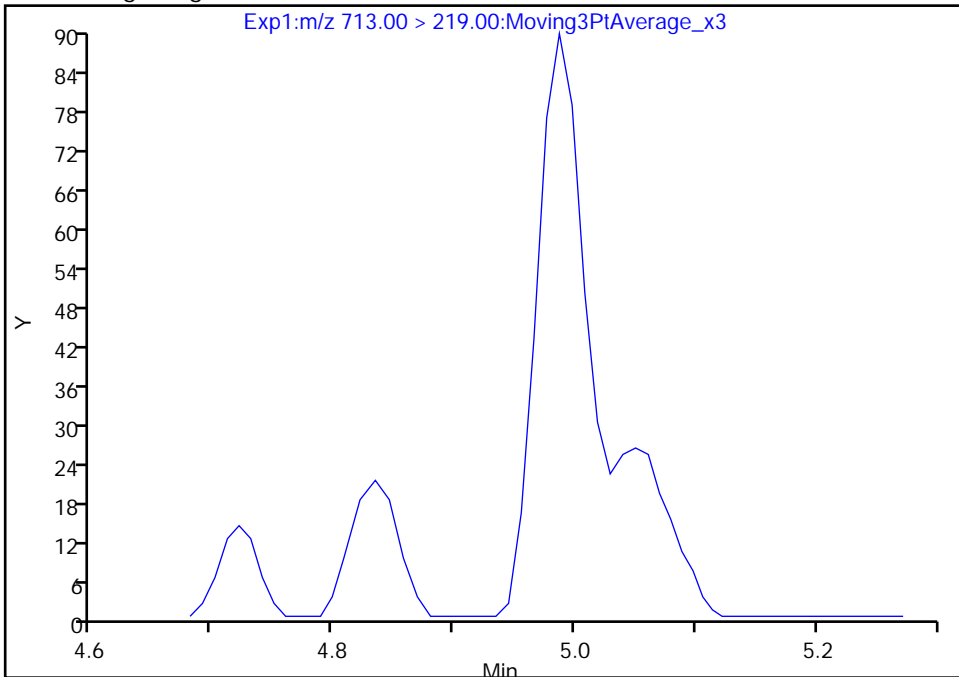
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

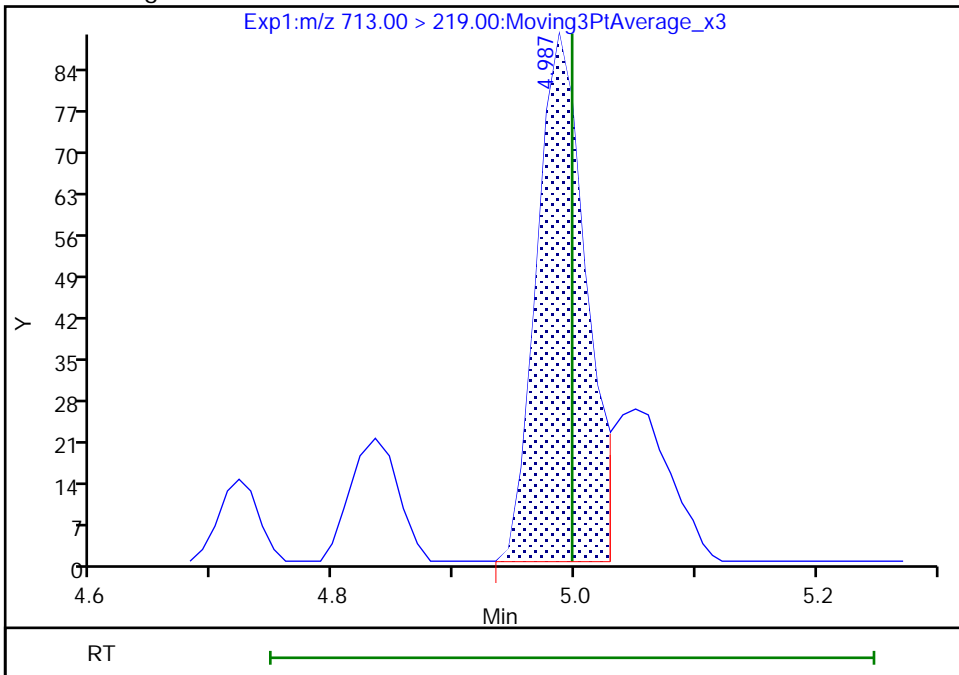
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 251
Amount: 0.001358
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:17:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

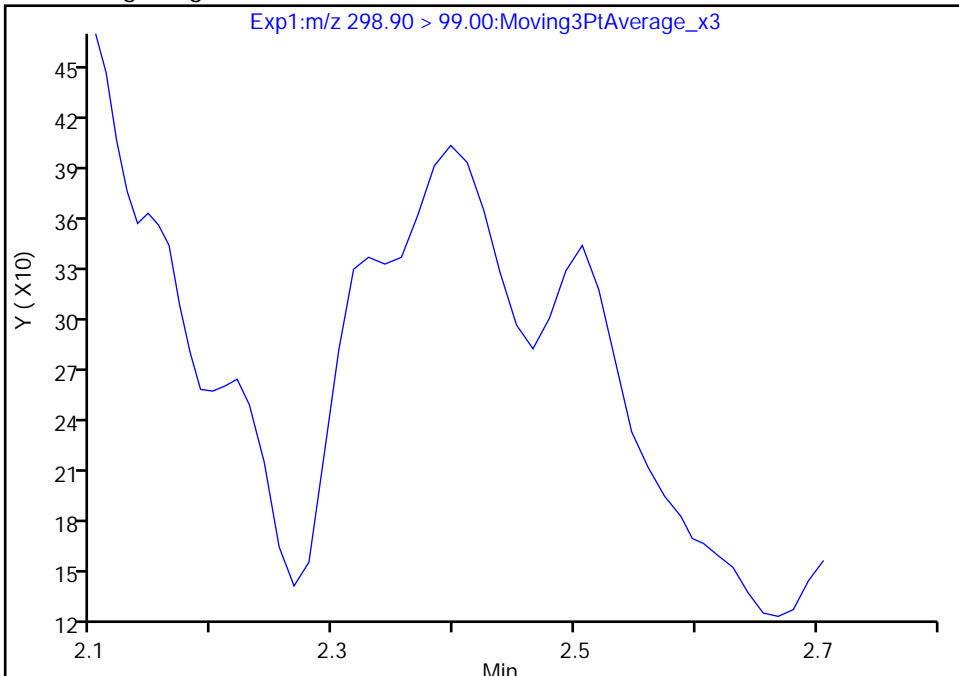
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

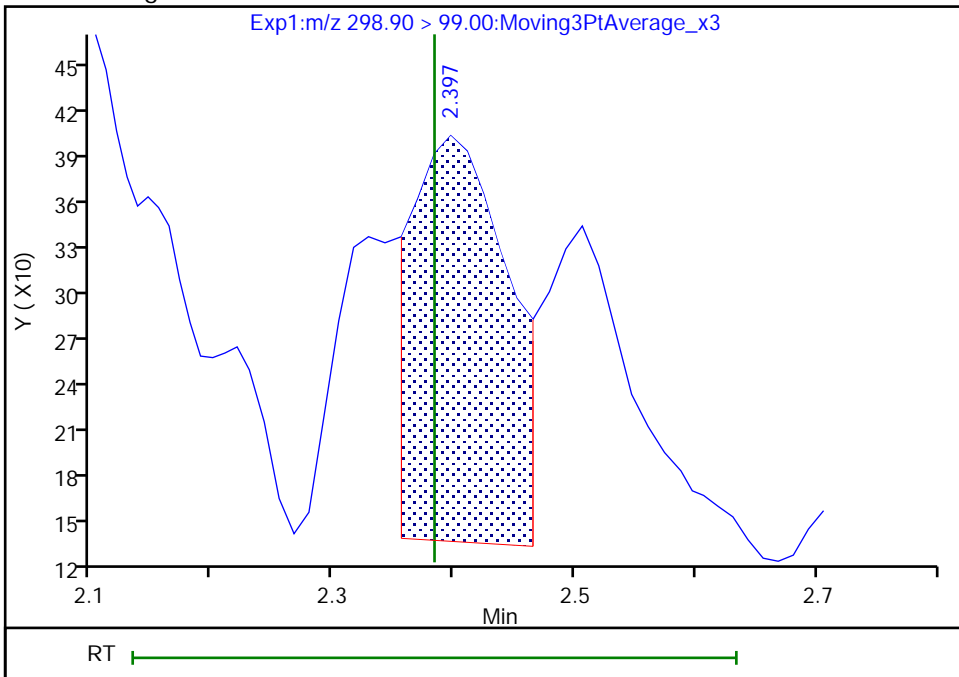
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1429
Amount: 0.001149
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:13:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 677 of 950

Eurofins Burlington

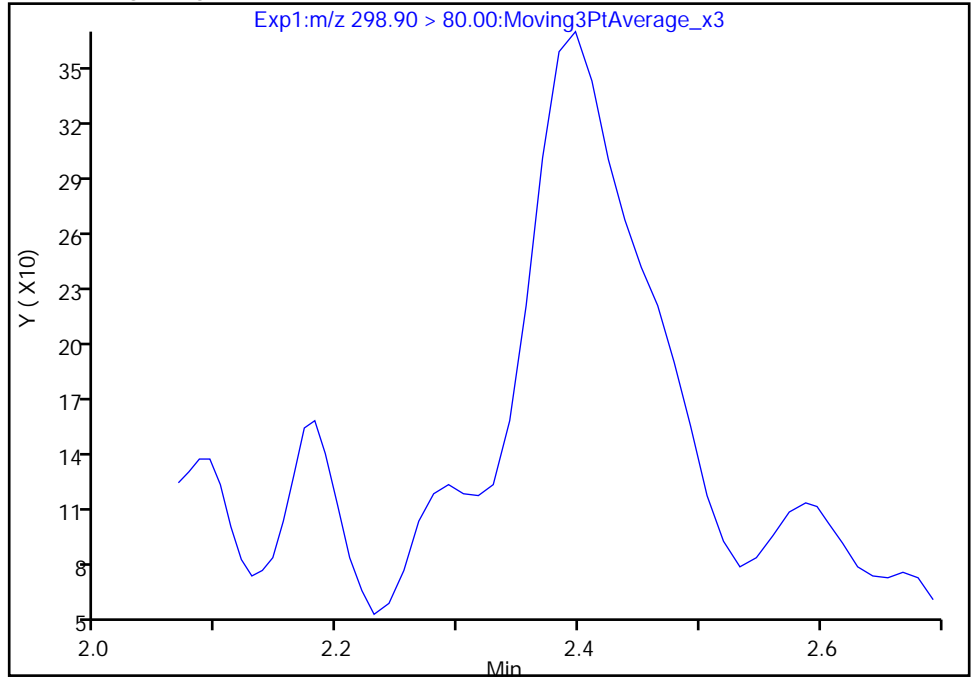
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

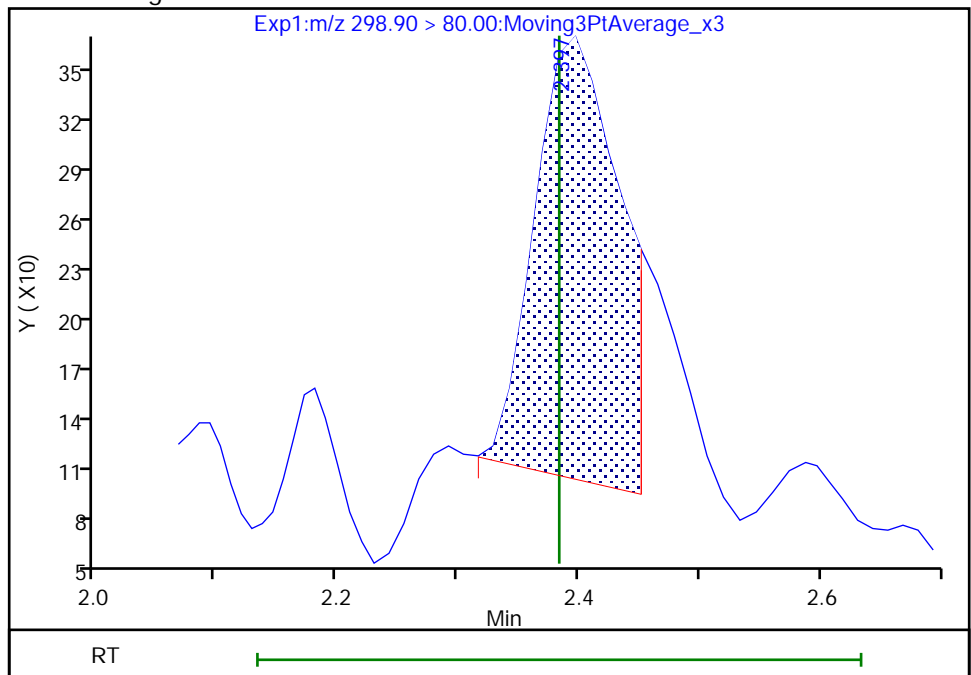
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1283
Amount: 0.001149
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:13:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

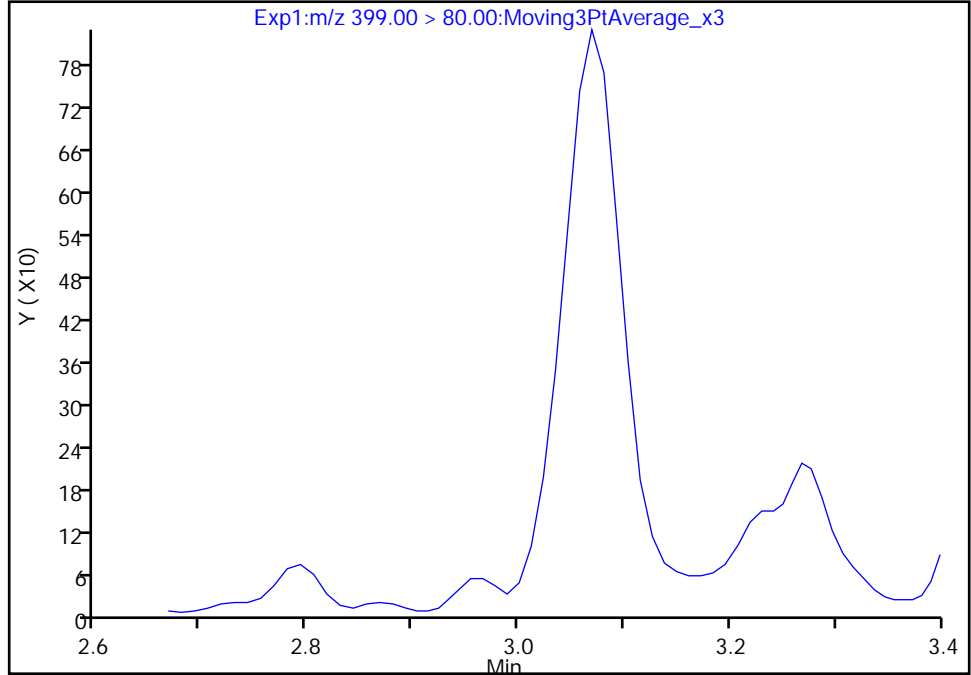
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

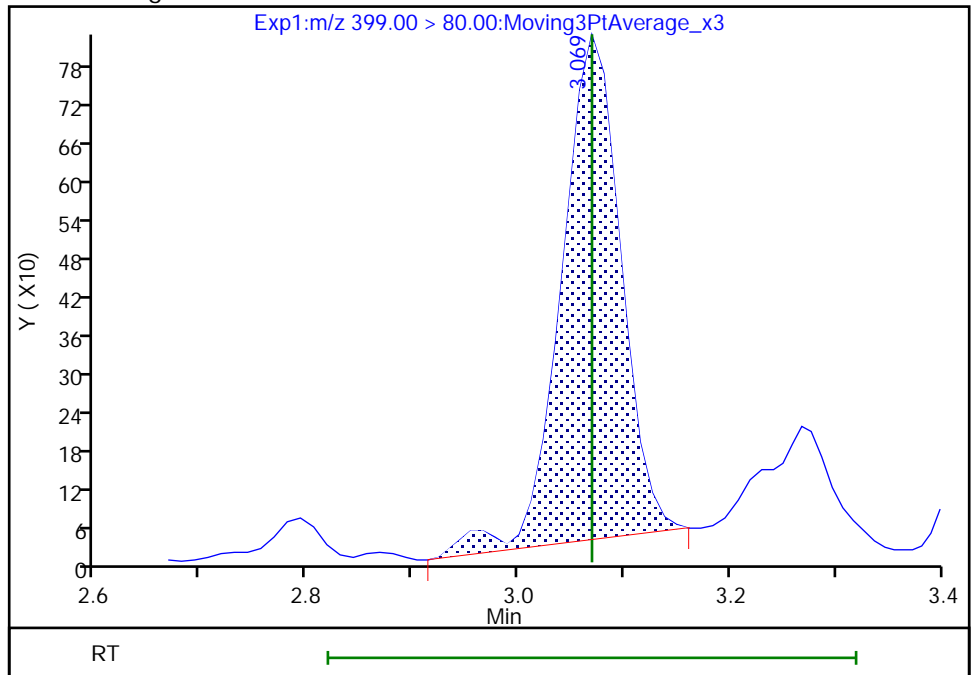
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 3130
Amount: 0.003744
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:13:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

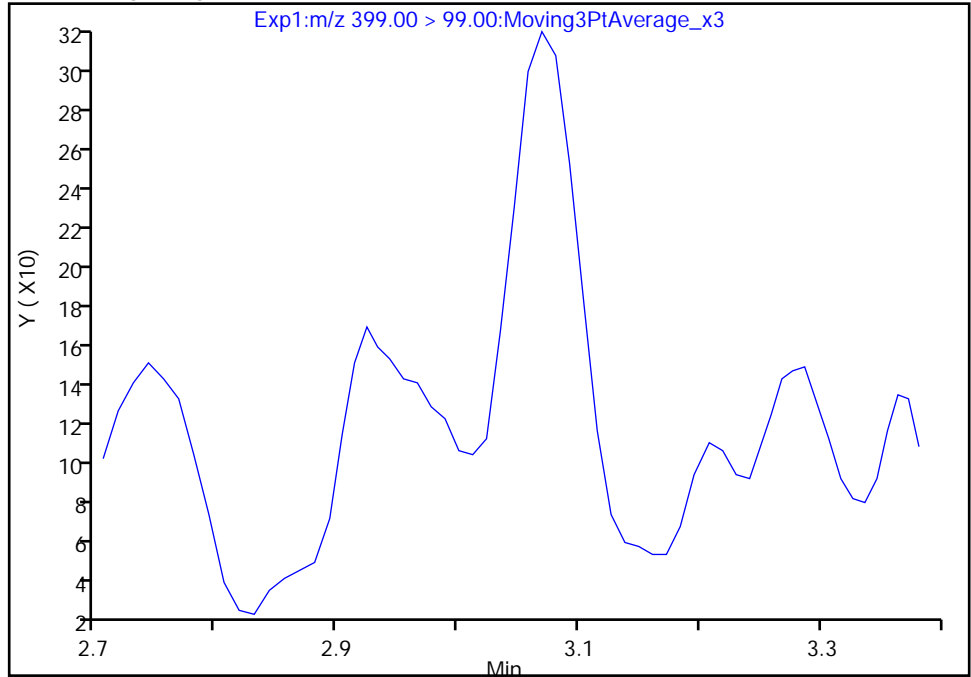
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

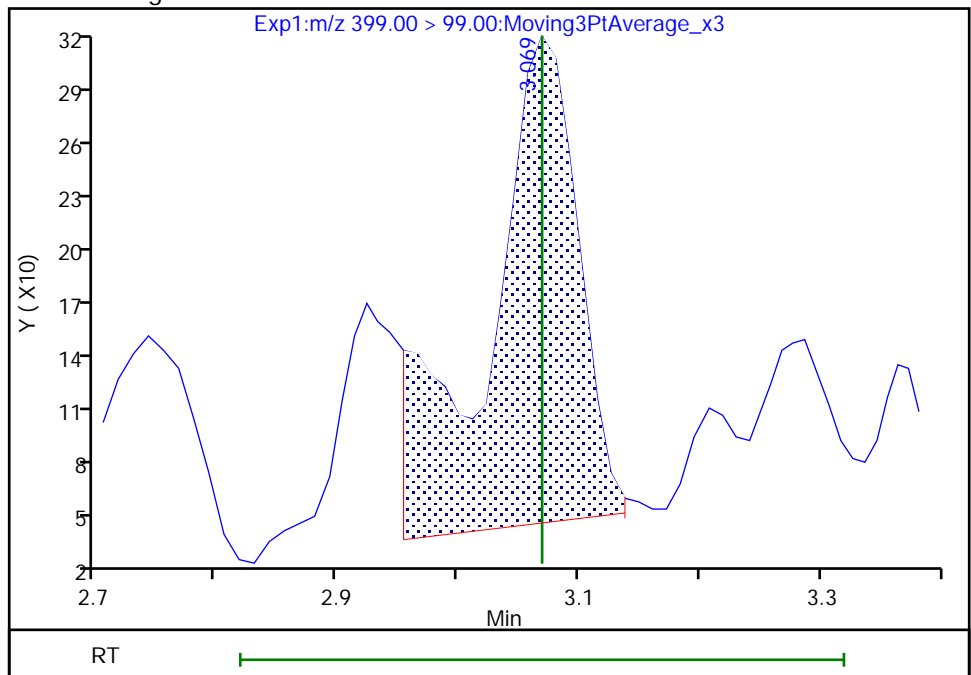
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 1397
Amount: 0.003744
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:13:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

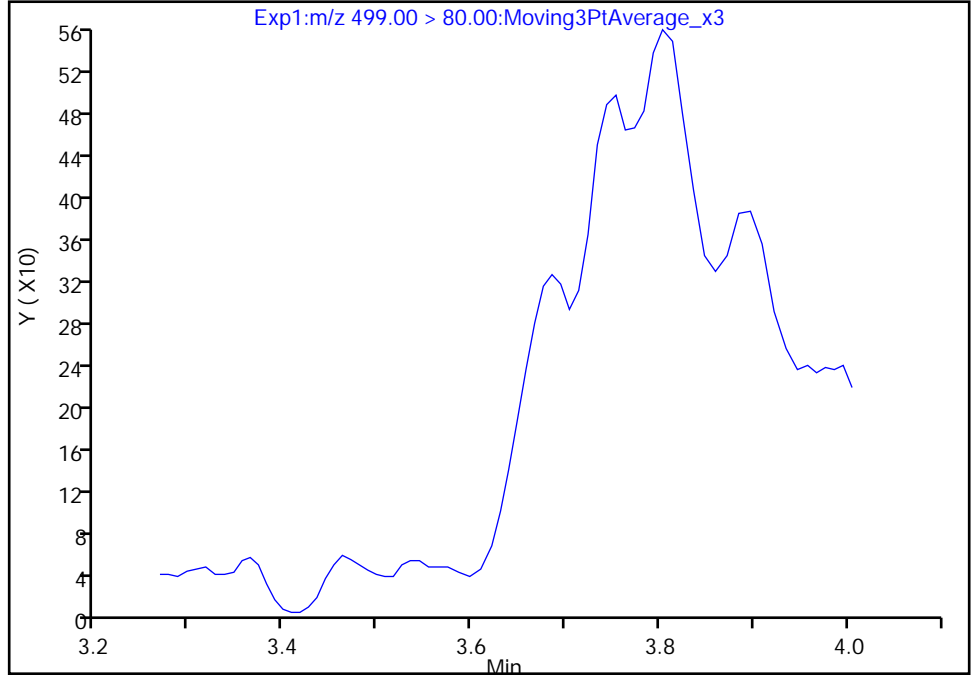
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

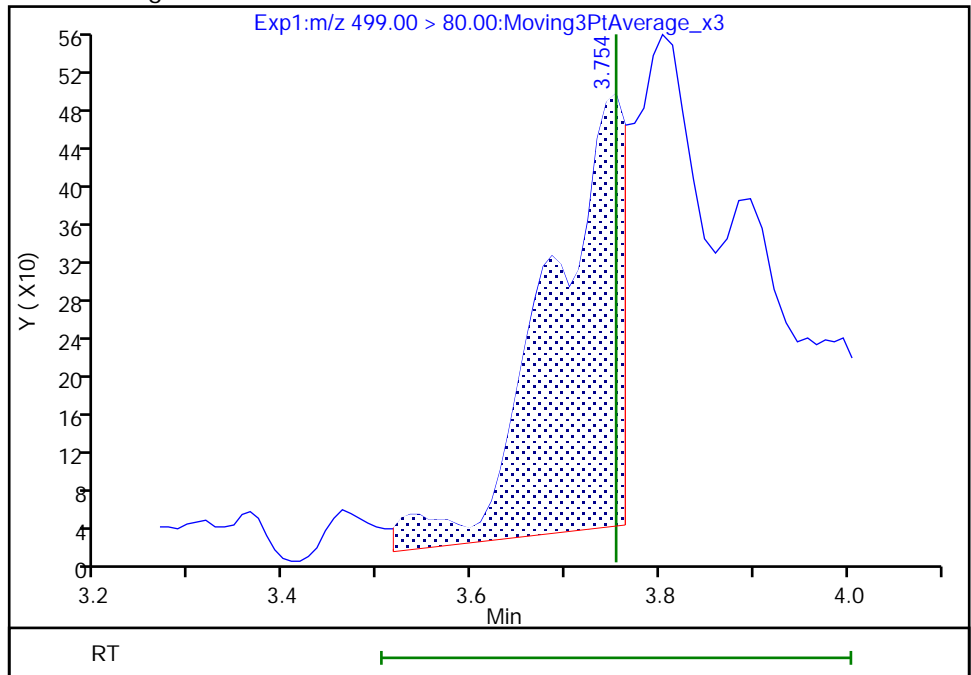
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 2504
Amount: 0.003773
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:14:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

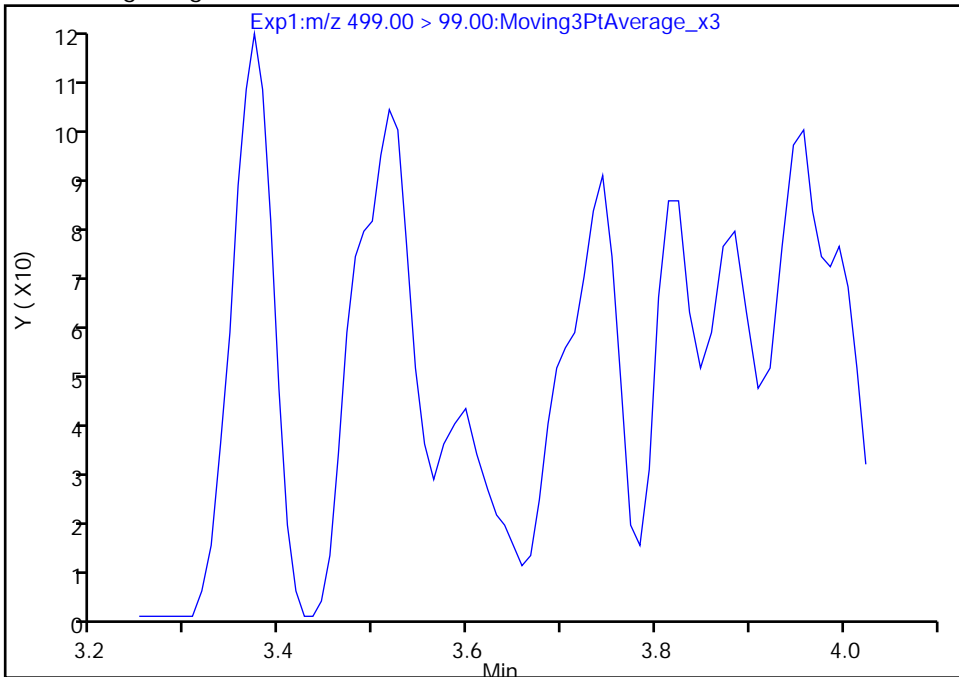
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

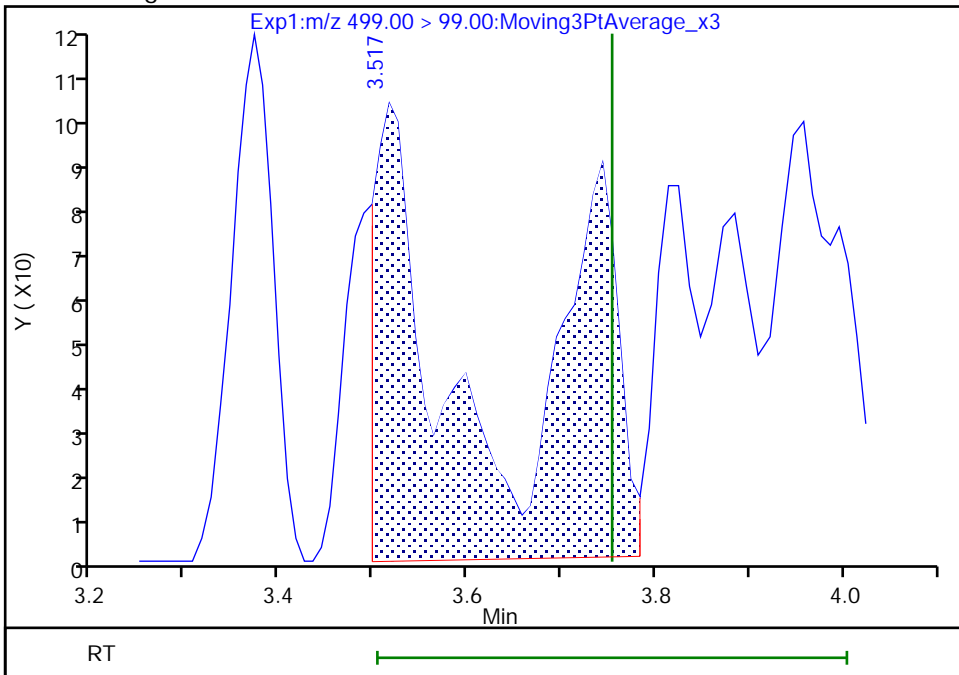
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 780
Amount: 0.003773
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:14:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

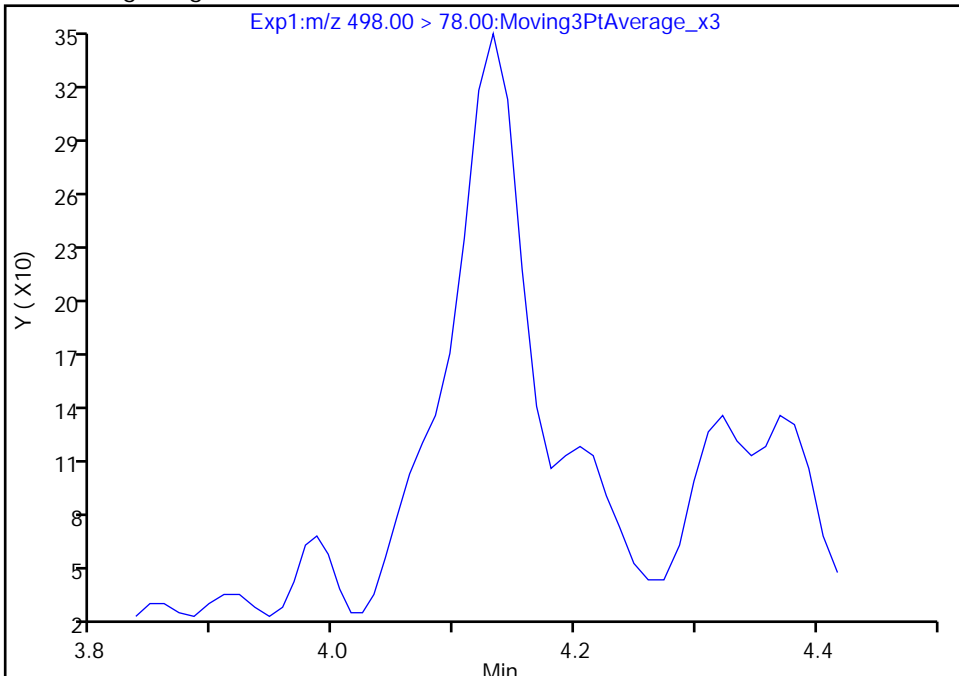
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

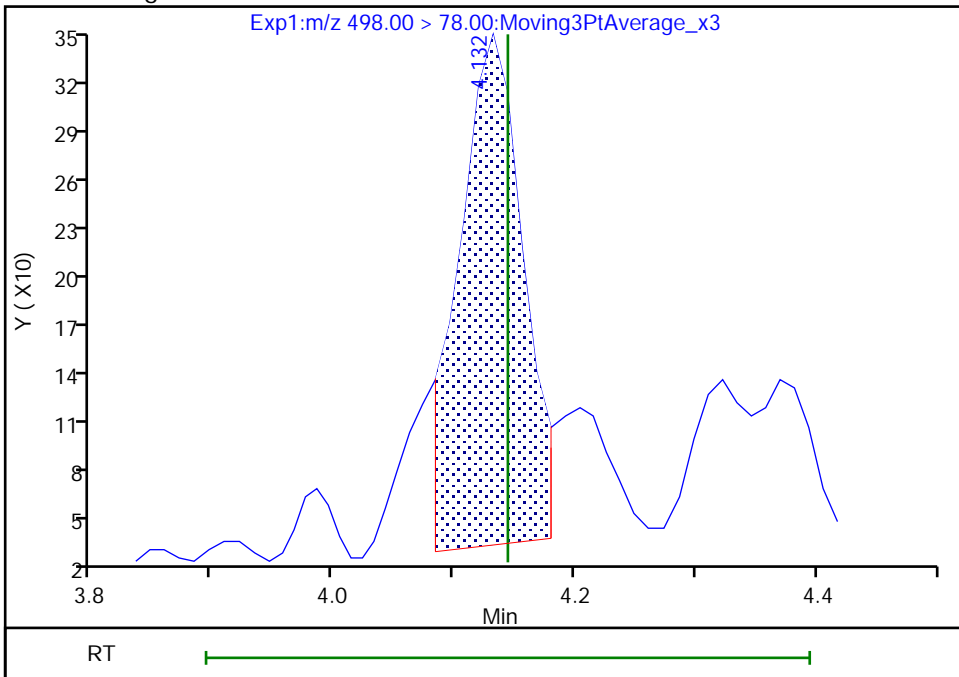
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 1119
Amount: 0.001653
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:15:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

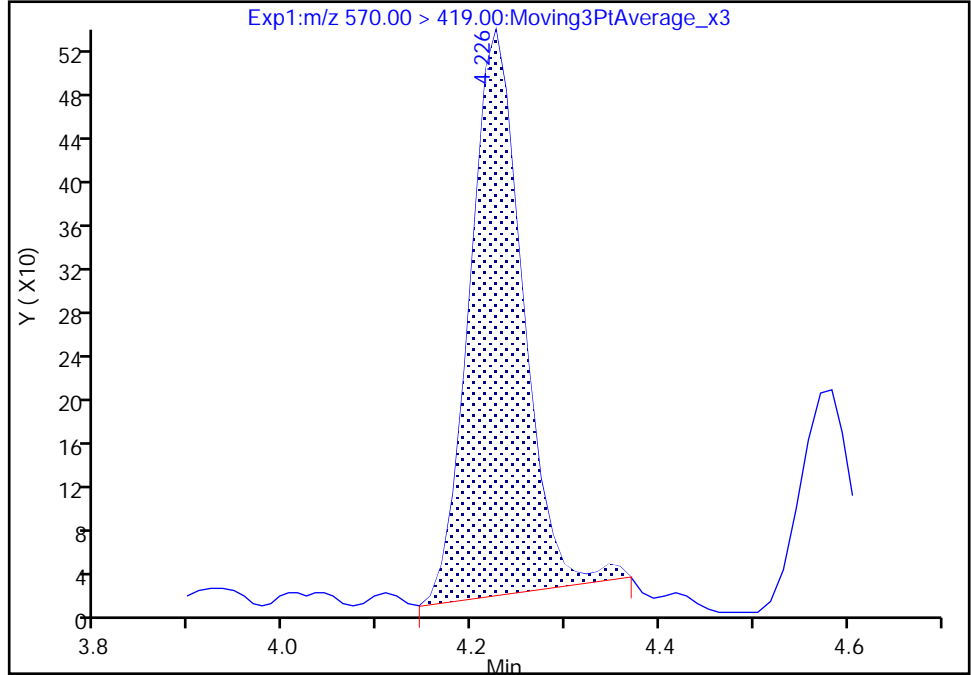
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

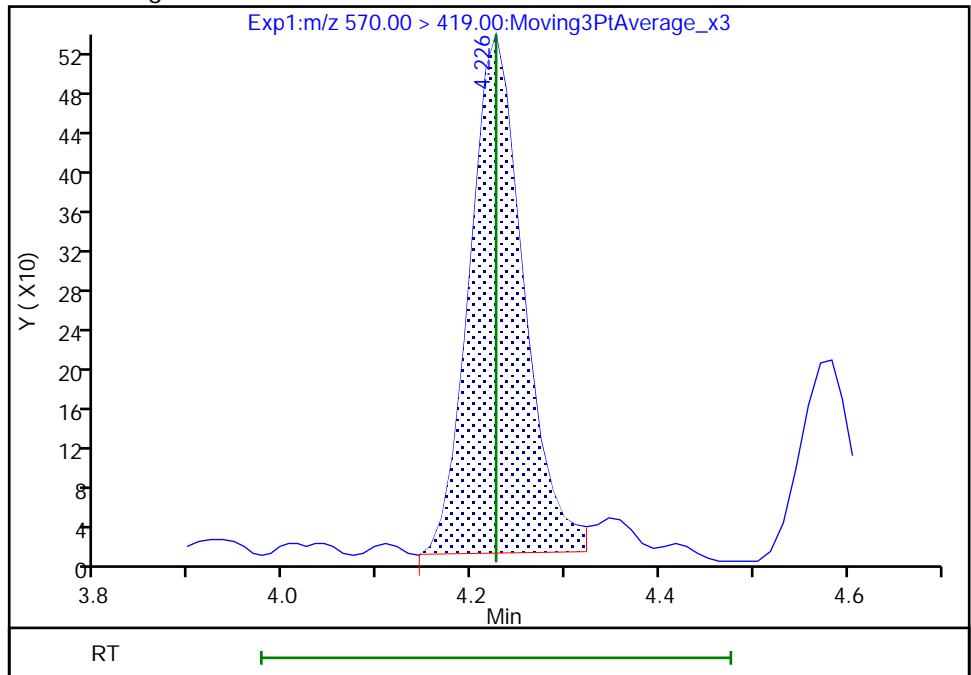
RT: 4.23
Area: 2031
Amount: 0.009840
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 2091
Amount: 0.010131
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:15:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

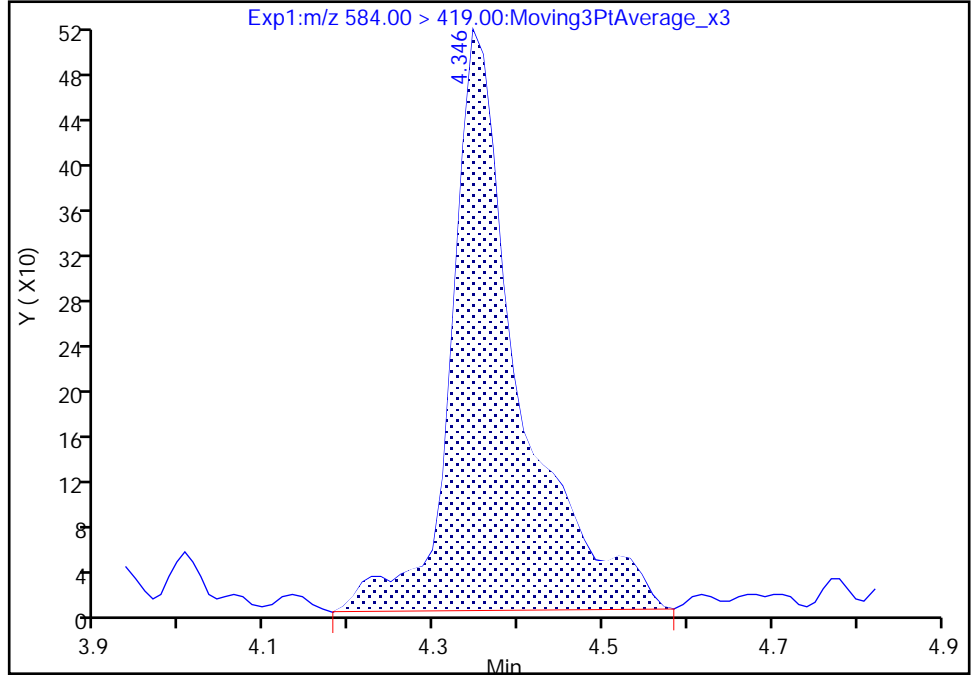
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

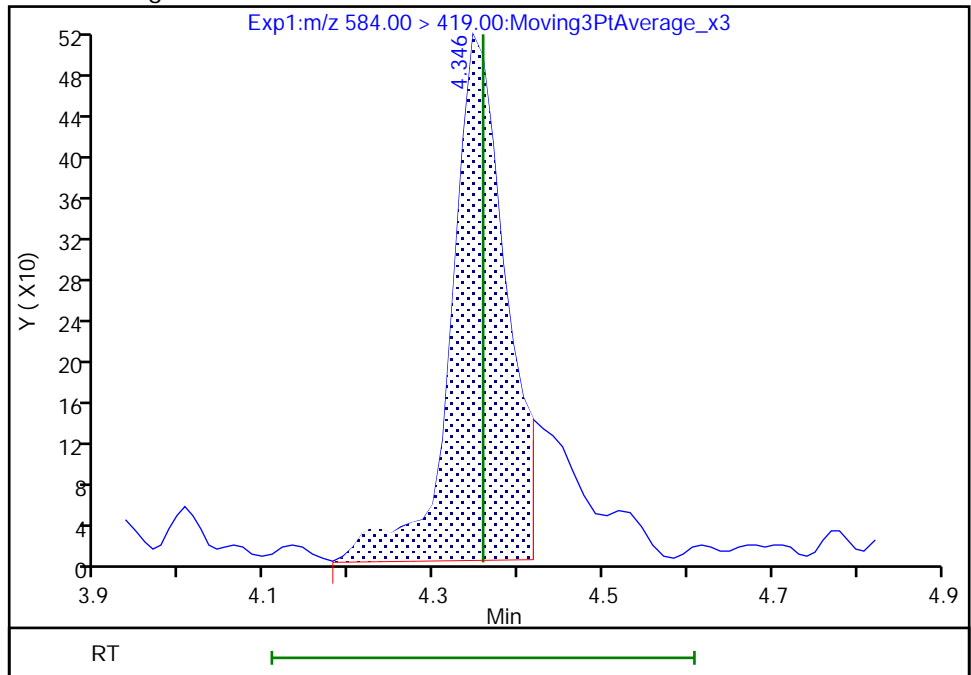
RT: 4.35
Area: 2929
Amount: 0.014792
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2332
Amount: 0.011777
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:16:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

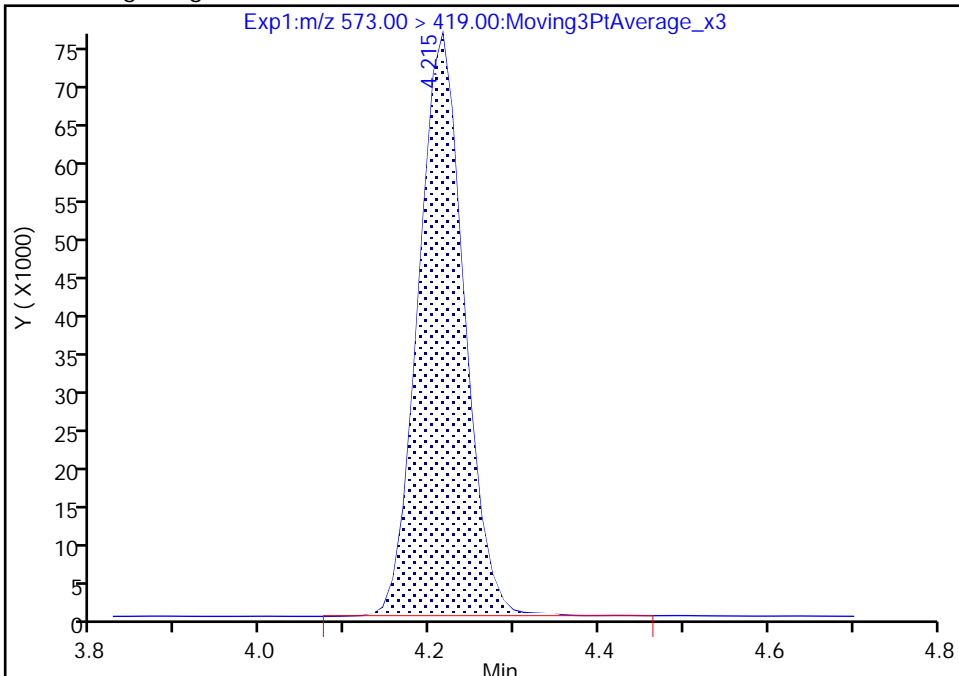
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

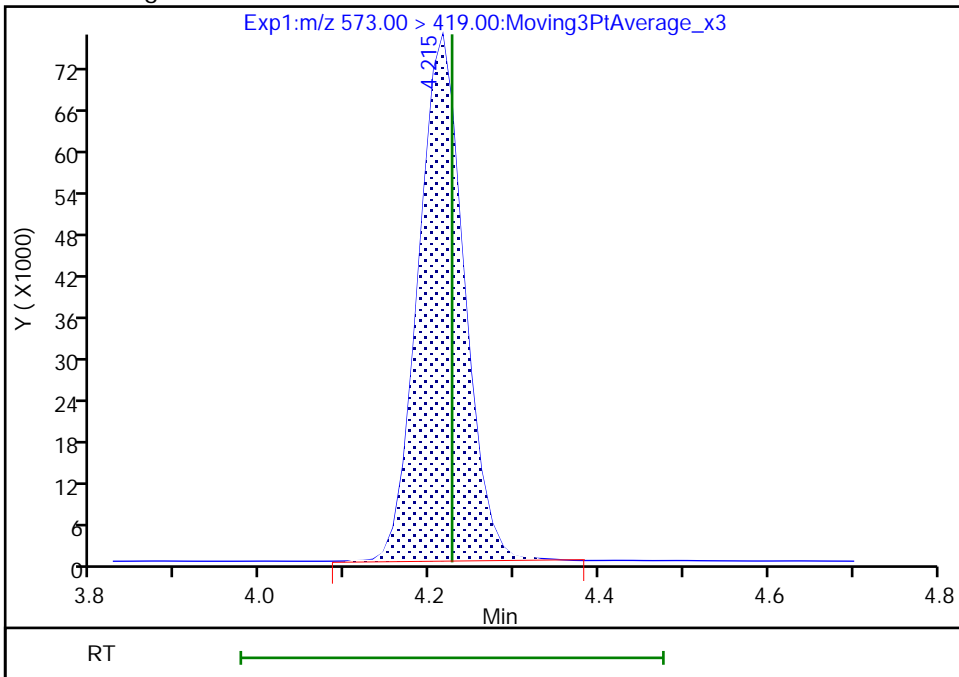
RT: 4.22
Area: 286634
Amount: 1.086573
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 286145
Amount: 1.084720
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:12:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

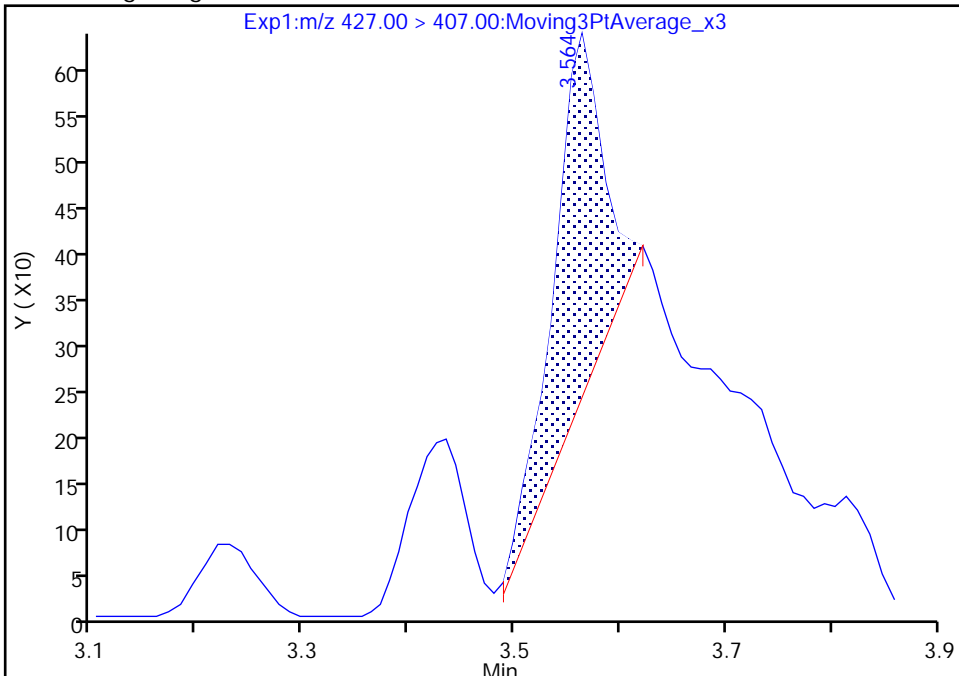
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

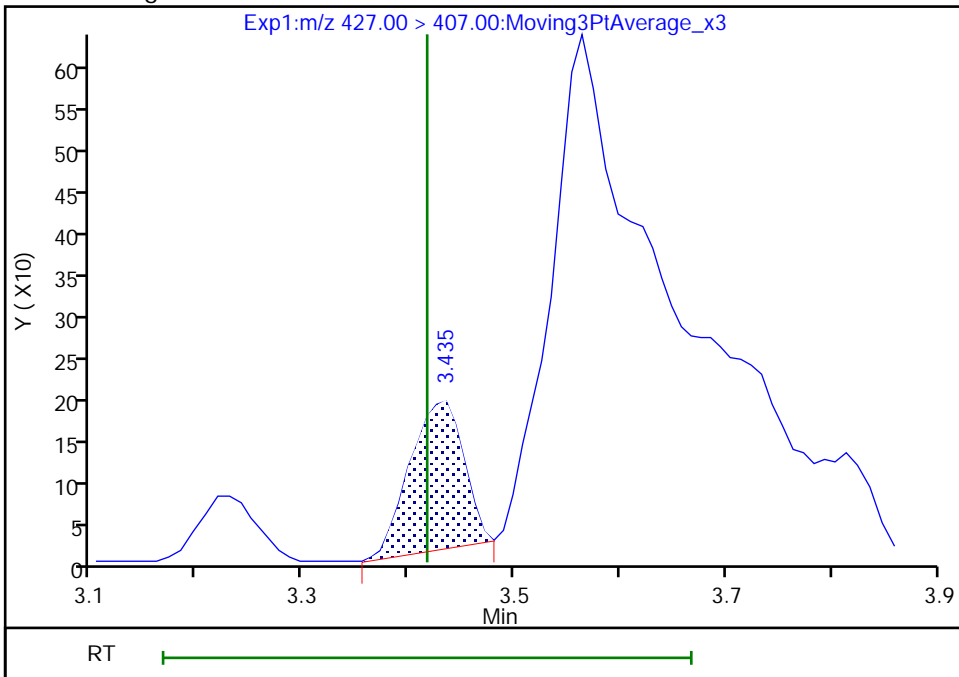
RT: 3.56
Area: 1279
Amount: 0.003552
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 626
Amount: 0.001739
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:14:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

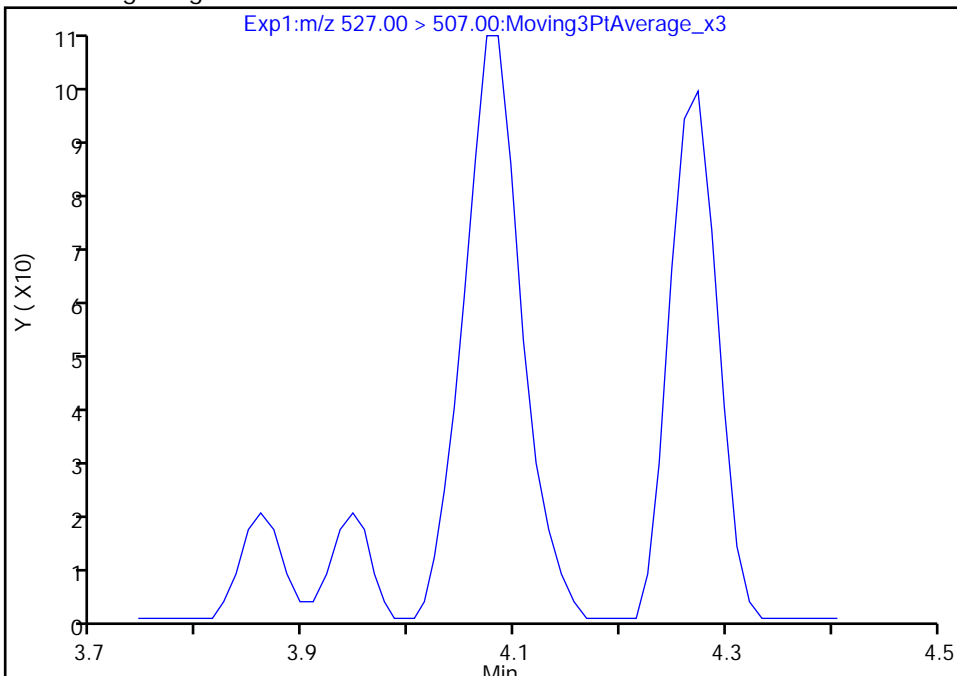
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

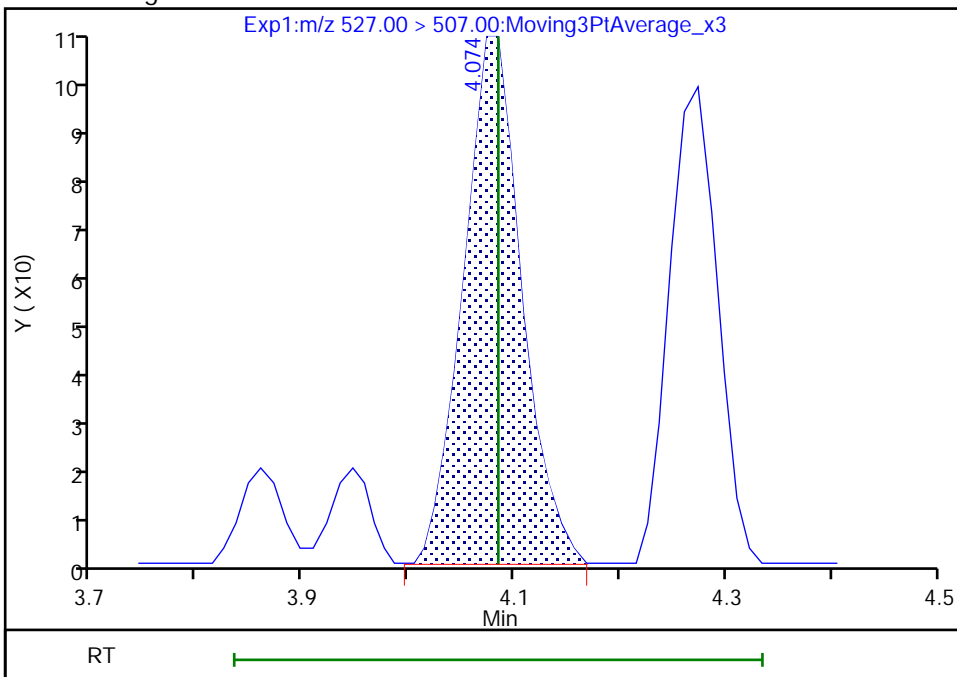
Processing Integration Results

Not Detected
Expected RT: 4.08



Manual Integration Results

RT: 4.07
Area: 403
Amount: 0.001305
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 11:15:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

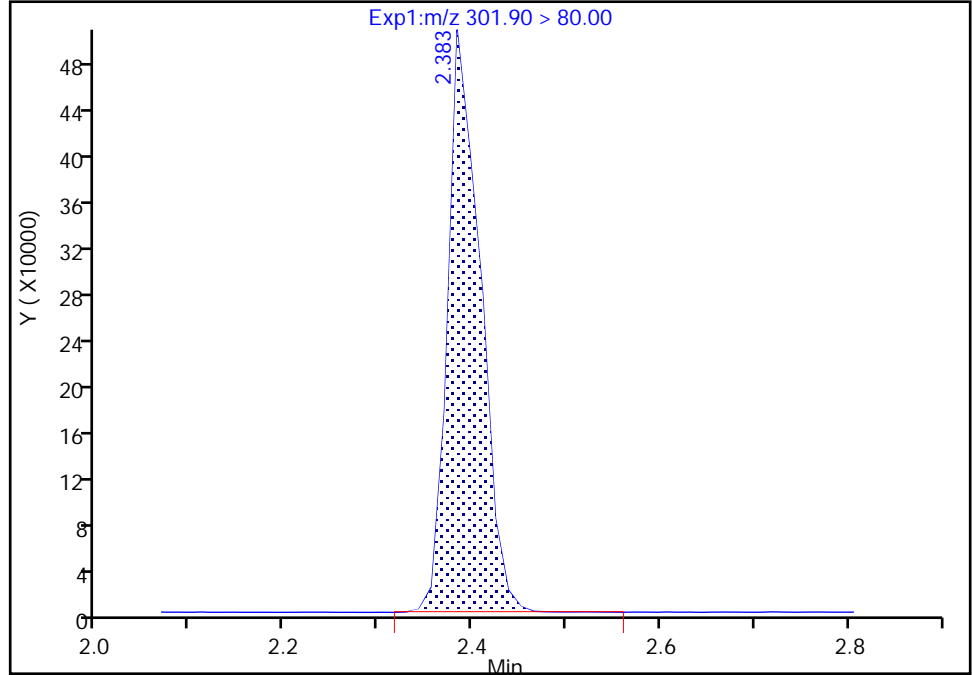
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B02.d
Injection Date: 23-Jan-2023 19:40:33 Instrument ID: LC812
Lims ID: MB 200-187735/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 2 Worklist Smp#: 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

D 47 13C3 PFBS, CAS: STL02337
Signal: 1

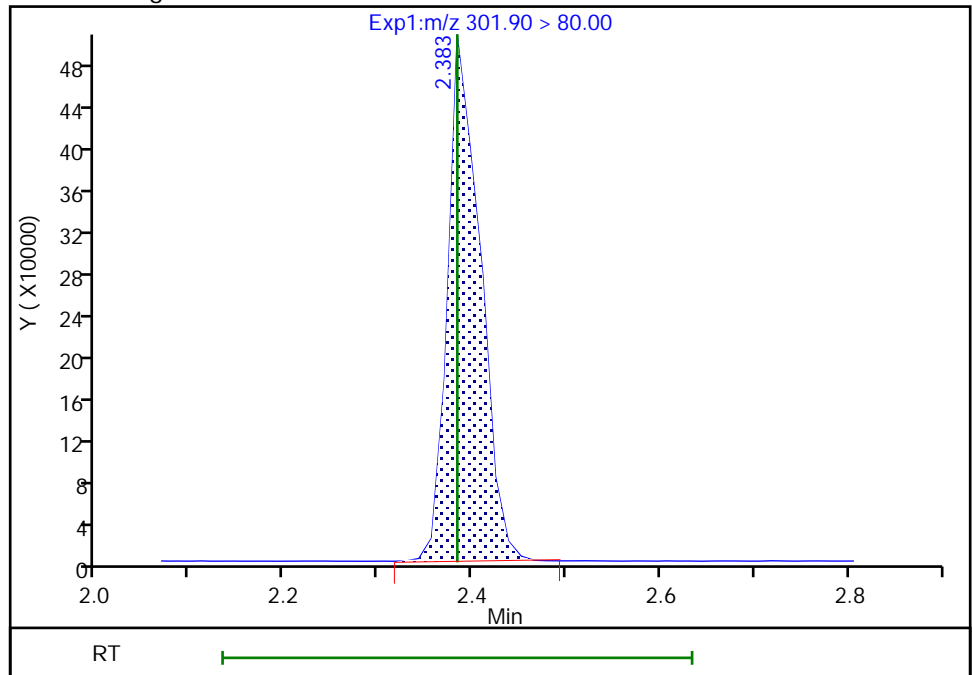
RT: 2.38
Area: 1214232
Amount: 0.907945
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 1211714
Amount: 0.906062
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:12:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187806/1-A
 Matrix: Solid Lab File ID: PA230126A06.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00(g) Date Analyzed: 01/26/2023 20:27
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023
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.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187806/1-A
 Matrix: Solid Lab File ID: PA230126A06.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00(g) Date Analyzed: 01/26/2023 20:27
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	79		50-150
STL00990	13C4 PFOA	79		50-150
STL00995	13C5 PFNA	76		50-150
STL00992	13C4 PFBA	78		50-150
STL00993	13C2 PFHxA	83		50-150
STL00996	13C2 PFDA	82		50-150
STL00997	13C2 PFUnA	81		50-150
STL00994	18O2 PFHxS	63		50-150
STL00998	13C2 PFDoA	80		50-150
STL00991	13C4 PFOS	76		50-150
STL01056	13C8 FOSA	67		50-150
STL01893	13C5 PFPeA	75		50-150
STL02116	13C2 PFTeDA	79		50-150
STL02118	d3-NMeFOSAA	99		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	84		50-150
STL02337	13C3 PFBS	70		50-150
STL02280	M2-8:2 FTS	79		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
 Lims ID: MB 200-187806/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Jan-2023 20:27:20 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-187806/1-A
 Misc. Info.: 200-0054135-006 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 10:51:10

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.076	2.094	-0.018	0.605	1596532	0.9697	77.6	23363	
2 Perfluorobutanoic acid	212.90 > 169.00	2.076	2.094	-0.018	1.000	57804	0.004375		6.2	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.694	1250811	0.9399	75.2	6045	
4 Perfluoropentanoic acid	262.90 > 219.00	2.397	2.370	0.027	1.006	12746	0.0111		0.3	M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.698	1193176	0.8167	70.3	134881	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.410	2.384	0.026	1.006	1789	0.001627	Target=2.10	5.2	M
	298.90 > 99.00	2.410	2.384	0.026	1.006	764	2.34(1.05-3.15)		0.4	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.780	91467	0.7743	66.3	173	
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.791	1439937	1.04	83.3	4473	
D 64 13C3 HFPO-DA	287.00 > 169.00	2.817	2.806	0.011	0.821	210406	0.8782	70.3	2653	
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.897	786509	0.7398	62.6	4171	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	3.080	3.069	0.011	1.000	3922	0.005372	Target=3.18	21.8	M
	399.00 > 99.00	3.080	3.069	0.011	1.000	2461	1.59(1.59-4.77)		5.9	M
D 9 13C4 PFHpA	367.00 > 322.00	3.080	3.069	0.011	0.897	1360746	0.9829	78.6	3836	
D 12 M2-6:2 FTS	429.00 > 81.00	3.425	3.417	0.008	0.997	166315	0.99	83.6	1362	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.416	3.417	-0.001	0.997	915	0.002853			1.5	M
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	1.000	1448600	0.9876		79.0	5586	
* 62 13C2 PFOA										
415.00 > 370.00	3.434	3.426	0.008		1789915	1.25			7225	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.093	584691	0.9046		75.7	4124	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.763	3.754	0.009	1.003	10171	0.0171	Target=4.23		10.0	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	2212		4.60(2.11-6.34)		10.1	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.099	1358495	0.9506		76.0	8511	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.052	4.043	0.009	1.080	572	0.001159	Target=2.37		8.5	M
549.00 > 99.00	4.052	4.043	0.009	1.080	215		2.66(1.18-3.55)		2.5	M
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.186	1507009	1.03		82.2	15182	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.189	198779	0.9468		79.1	1283	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.096	4.085	0.011	1.003	192	0.000638			2.8	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.144	4.144	0.0	1.003	1040	0.001302			6.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.132	4.144	-0.012	1.203	992428	0.8330		66.6	3322	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.226	-0.012	1.227	356688	1.24		99.0	4228	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.003	460	0.001788			1.0	
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.310	4.322	-0.012	1.148	135	0.000367	Target=2.45		4.1	M
599.00 > 99.00	4.310	4.322	-0.012	1.148	93		1.45(1.23-3.68)		1.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.265	1284021	1.01		81.2	9040	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.369	4.358	0.011	1.003	872	0.003729			5.4	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.269	314589	1.14		90.9	787	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.583	4.584	-0.001	1.000	2832	0.002731	Target=8.10		0.4	R
613.00 > 169.00	4.583	4.584	-0.001	1.000	145		19.53(4.05-12.15)		2.3	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.583	4.584	-0.001	1.335	1272975	1.00		80.3	3905	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.605	4.606	-0.001	1.128	137	0.000720			3.1	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.005	4.998	0.007	1.002	153	0.001420	Target=0.83		3.0	RM
713.00 > 219.00	4.984	4.998	-0.014	0.998	377		0.41(0.42-1.25)		9.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.454	1078484	0.9884		79.1	4449	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.360	5.362	-0.002	1.000	12666	-0.000142	Target=6.74		2.4	
813.00 > 169.00	5.360	5.362	-0.002	1.000	1655		7.65(3.37-10.11)		28.8	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.561	1109312	0.8295		66.4	4527	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d

Injection Date: 26-Jan-2023 20:27:20

Instrument ID: LC812

Lims ID: MB 200-187806/1-A

Client ID:

Operator ID: LC812user

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

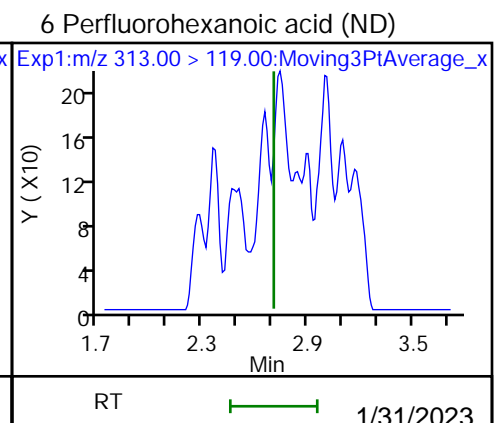
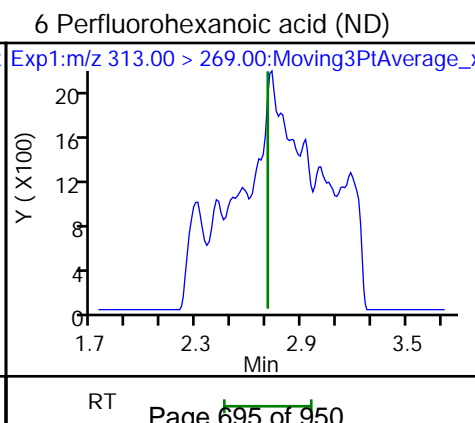
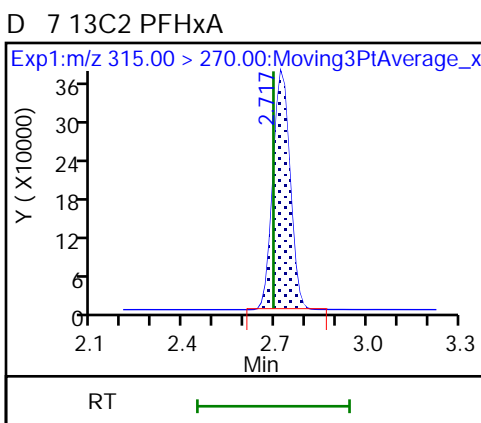
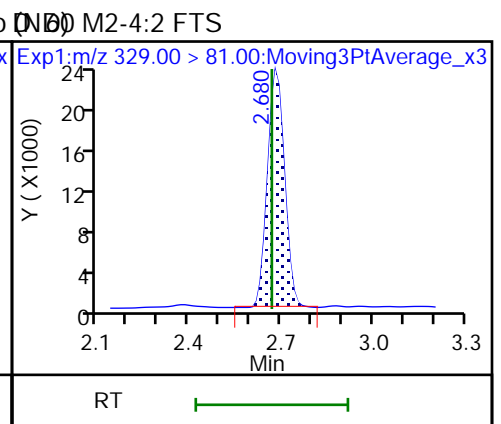
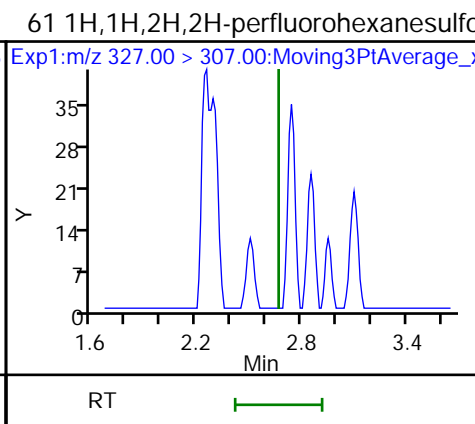
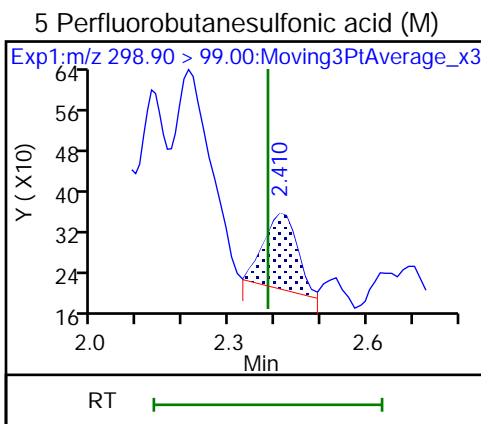
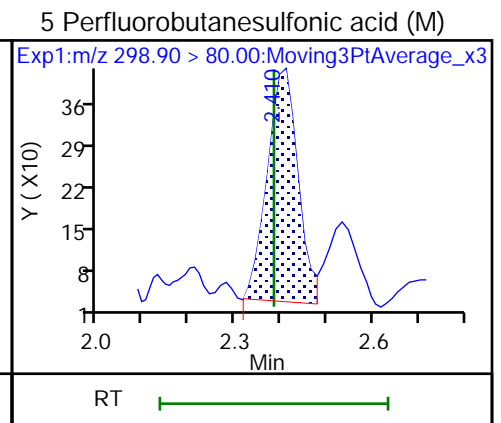
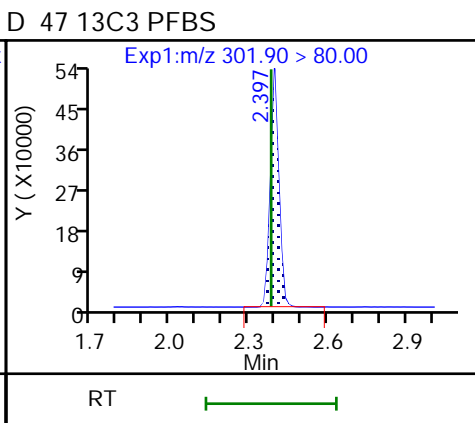
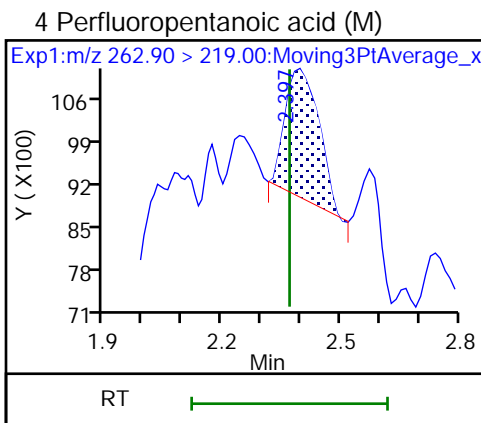
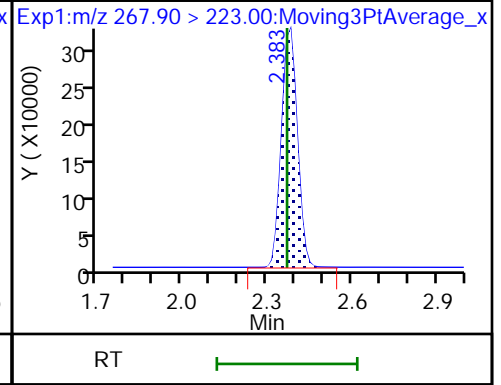
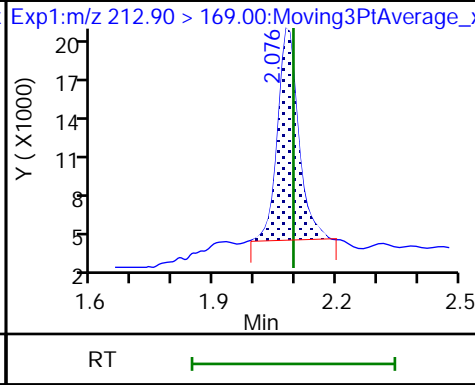
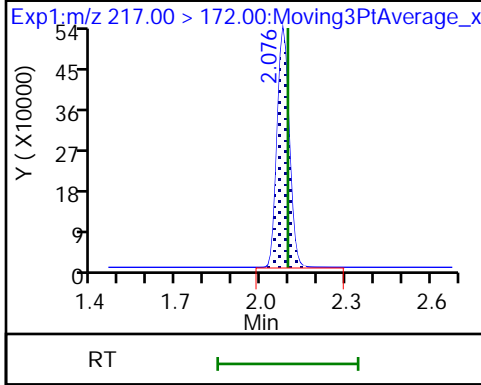
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

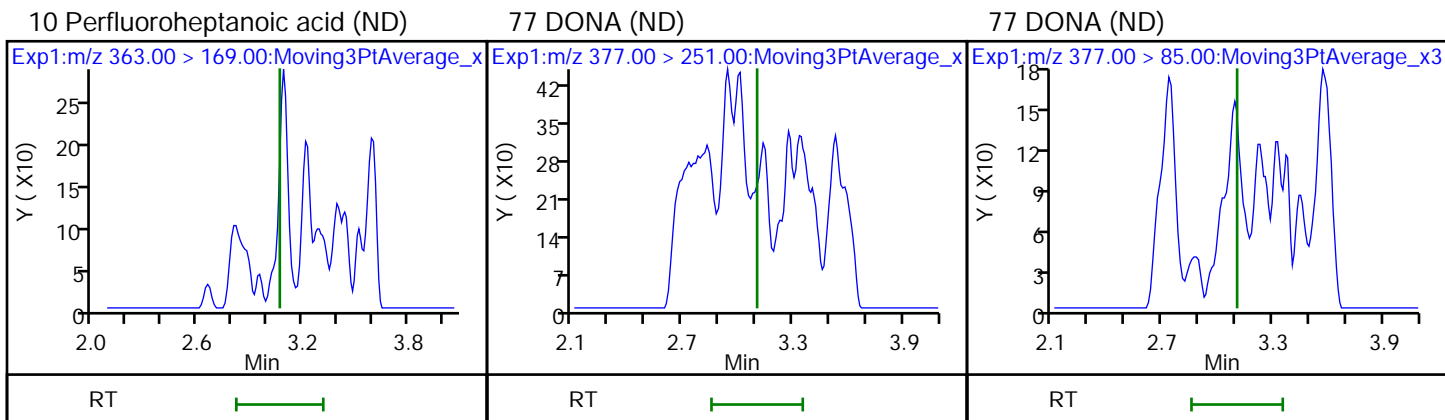
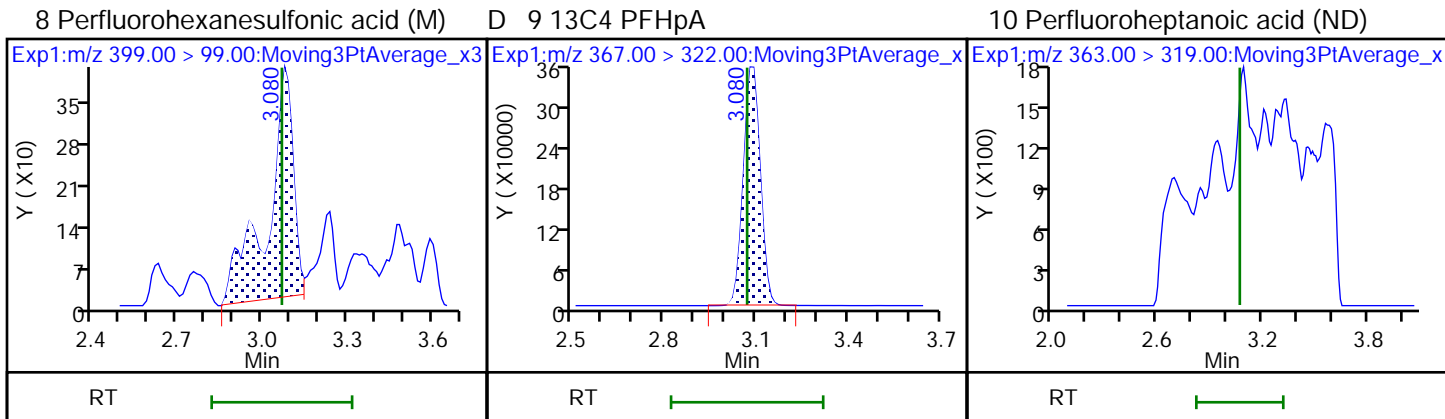
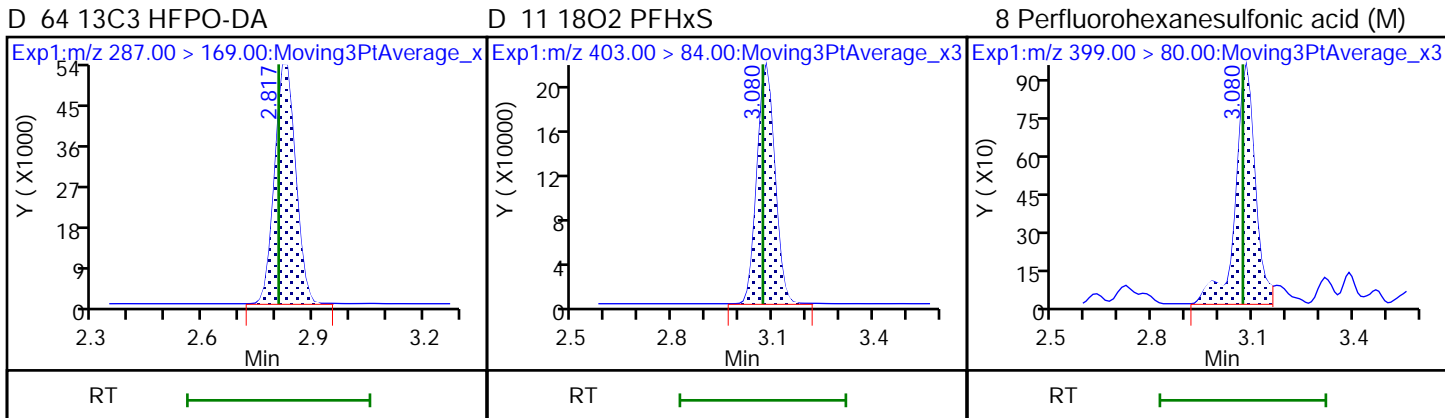
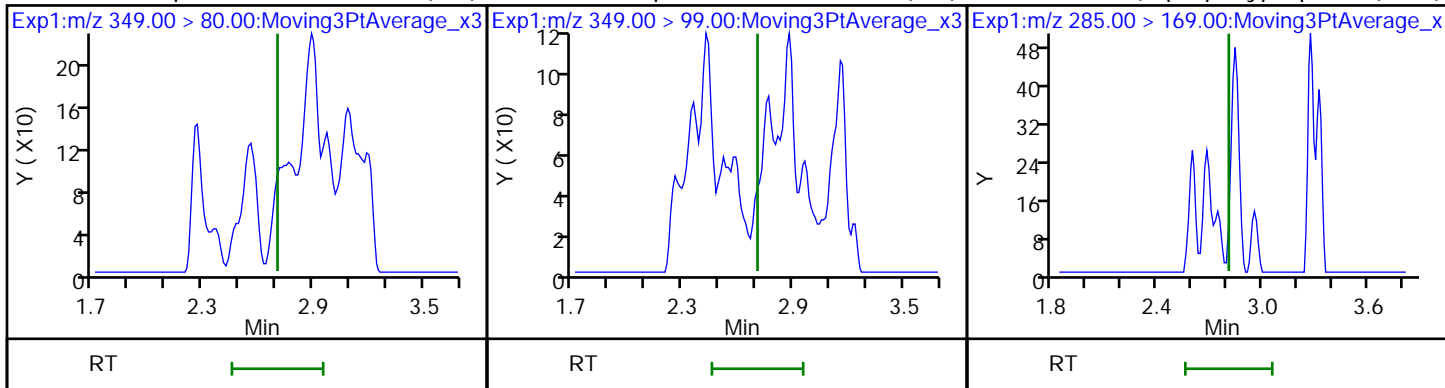
D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

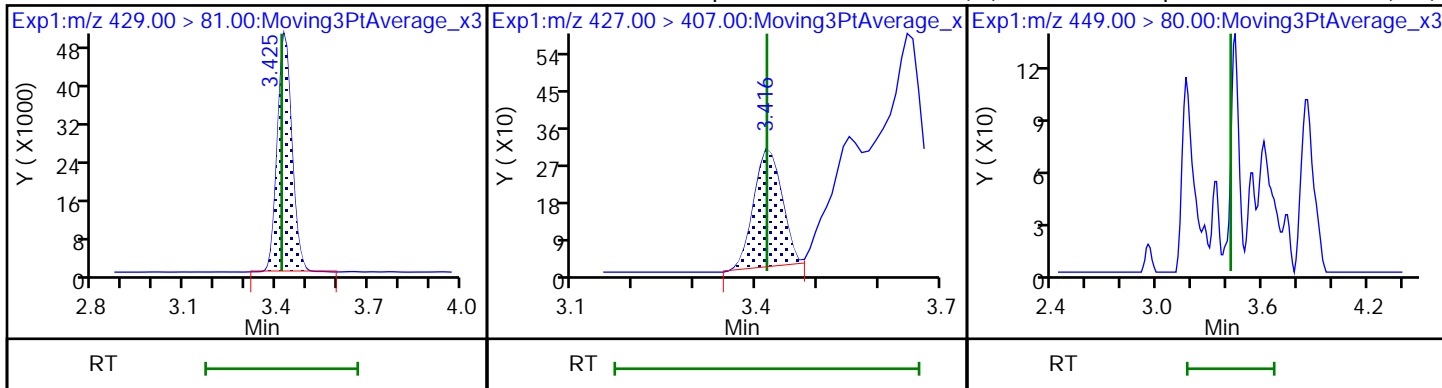


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (ND)



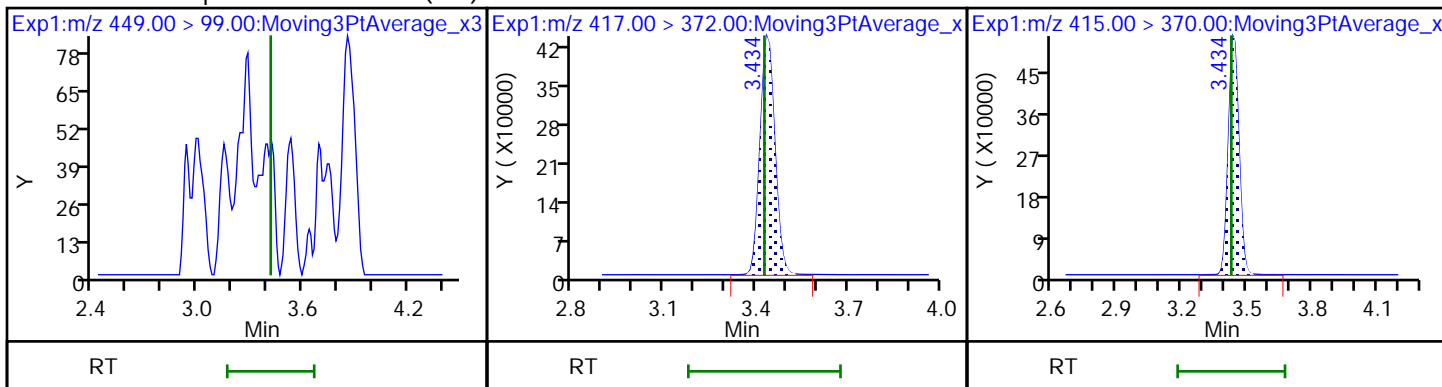
D 12 M2-6:2 FTS

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



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

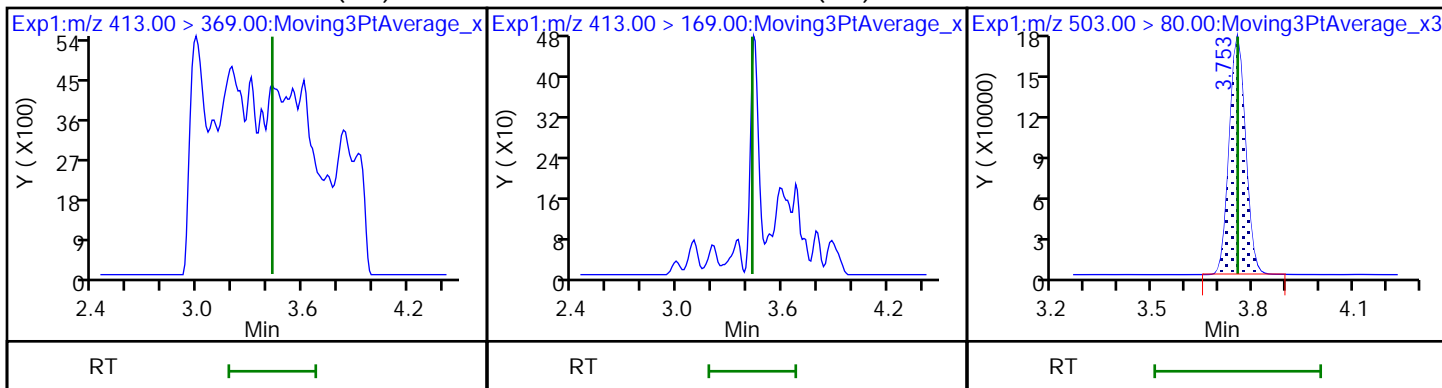
* 62 13C2 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

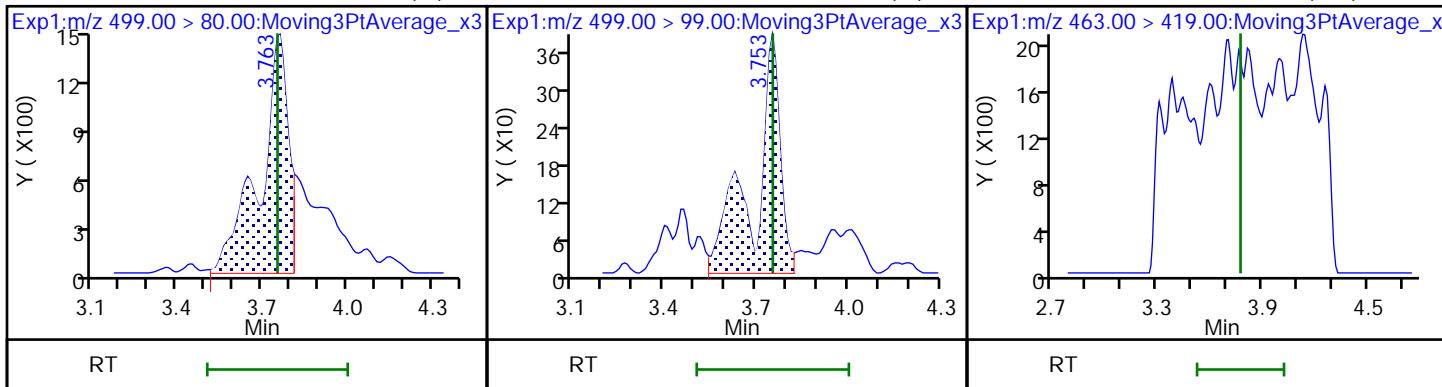
D 18 13C4 PFOS

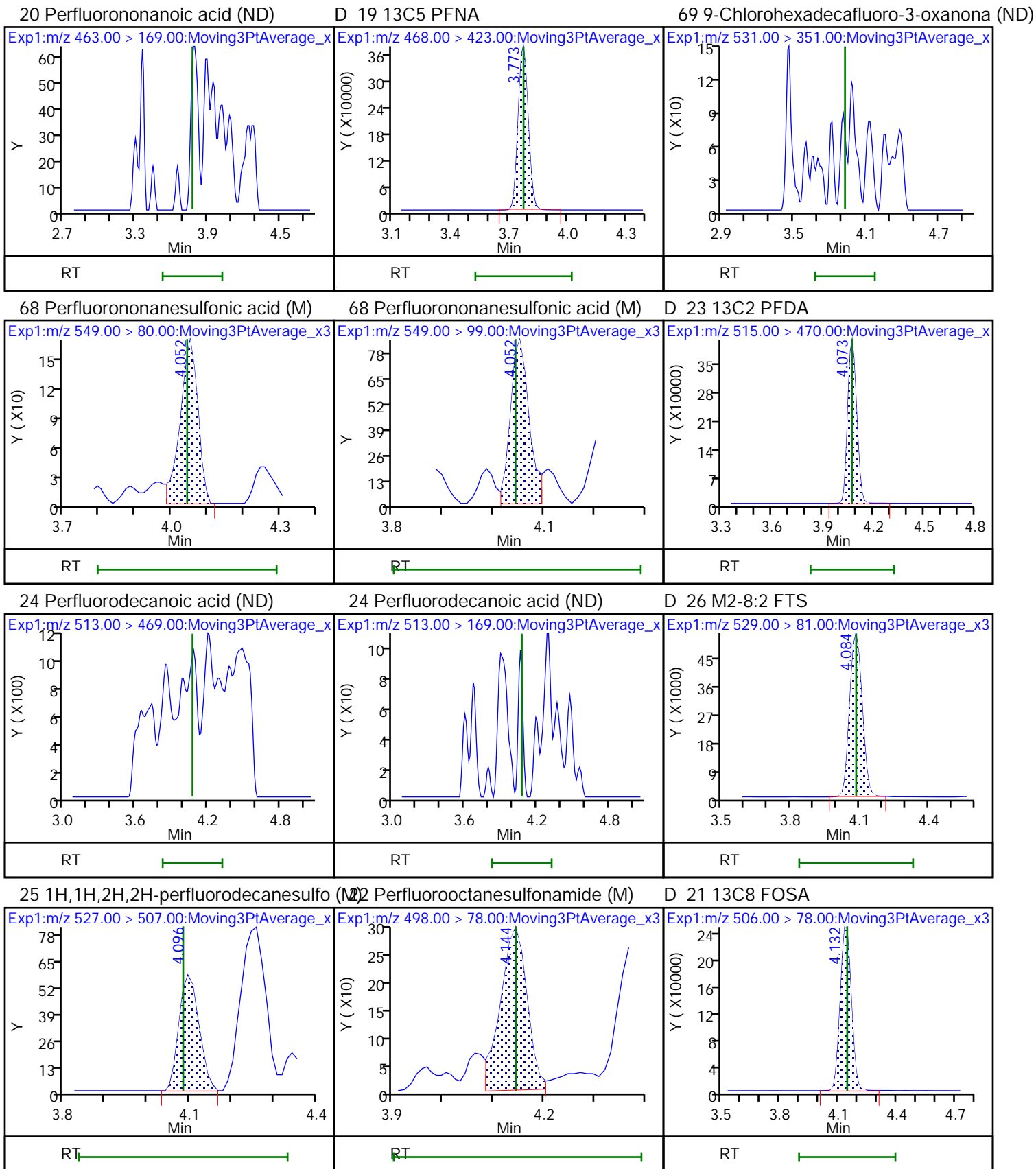


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

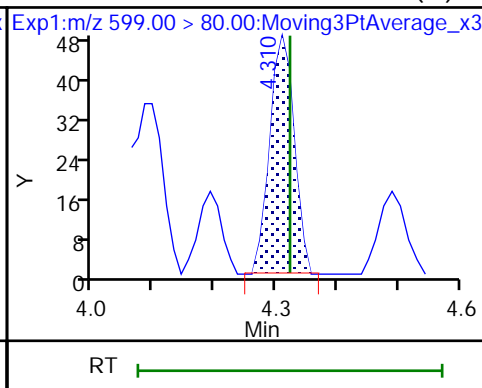
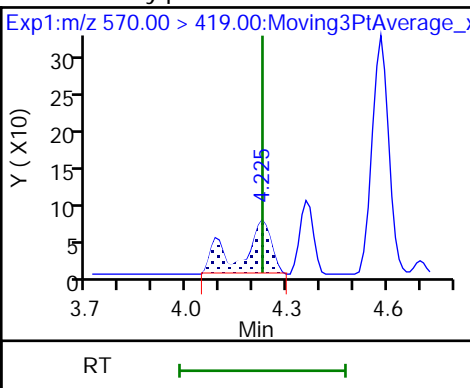
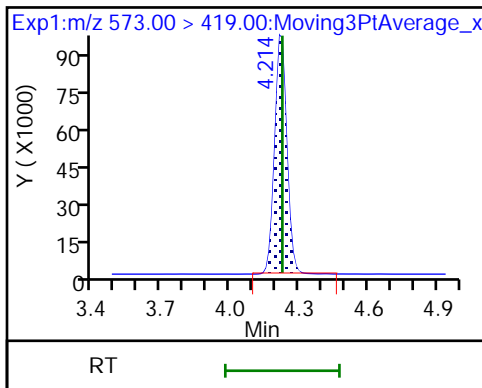




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

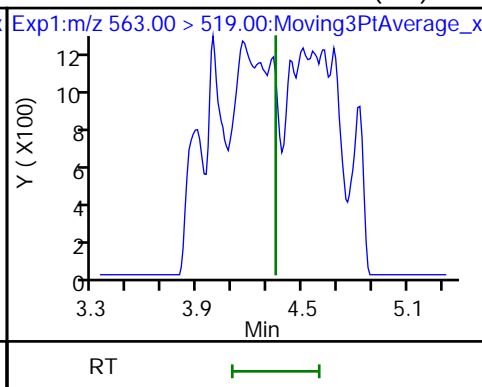
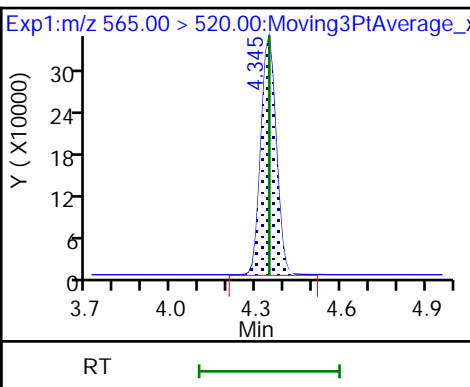
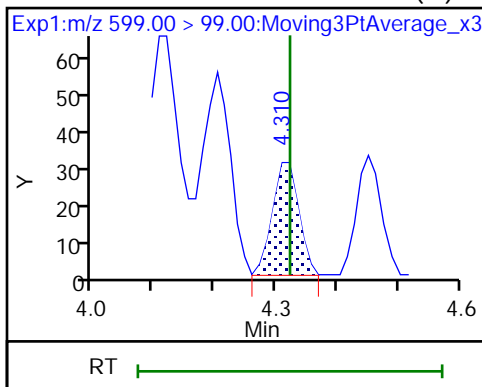
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

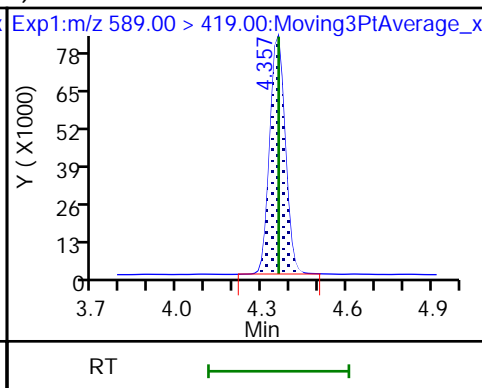
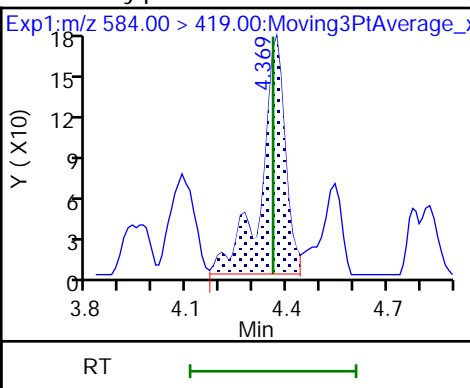
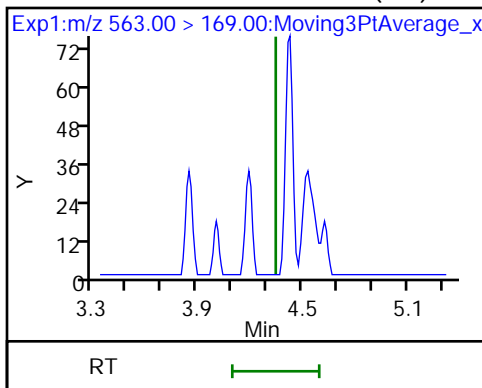
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

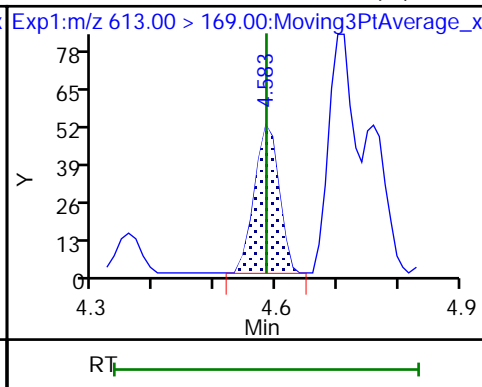
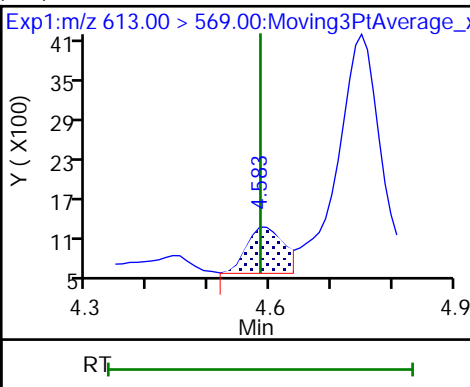
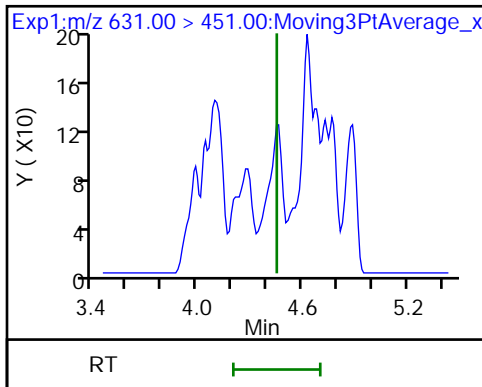
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec (NB)

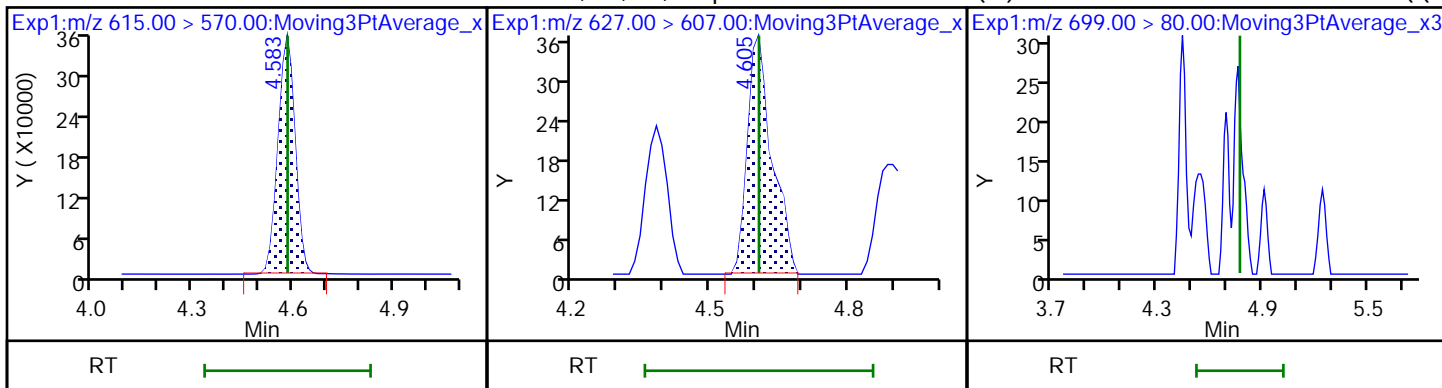
35 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)

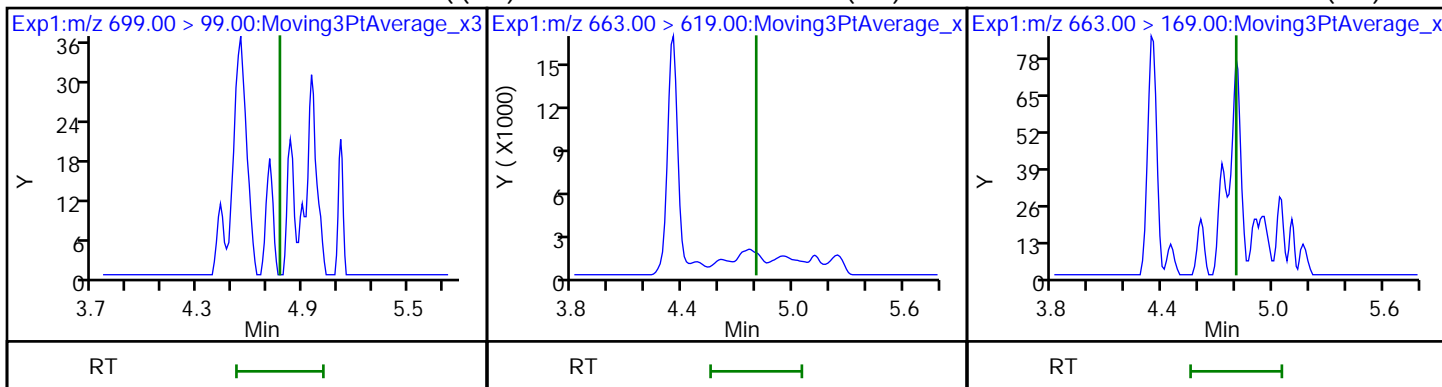


D 36 13C2 PFDaA

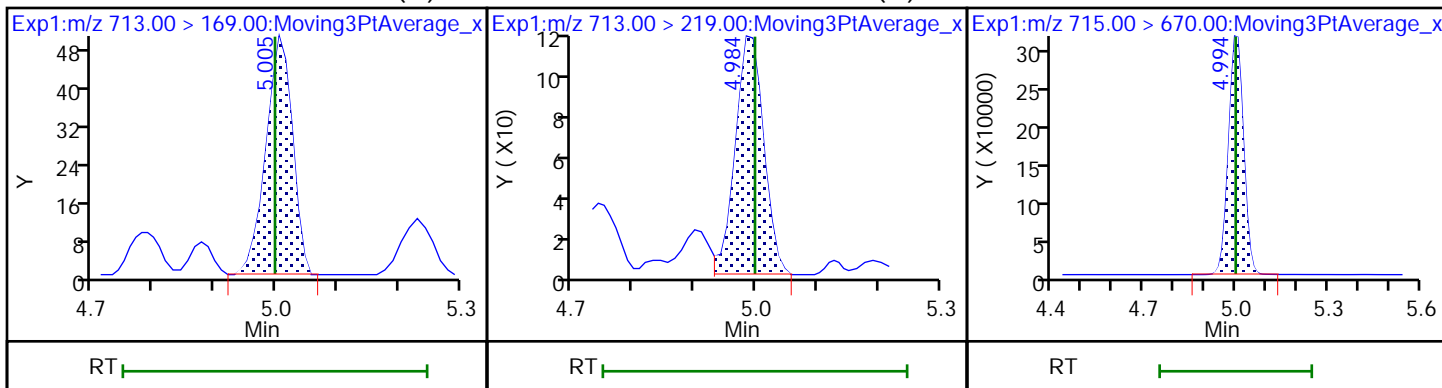
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid ((ND)



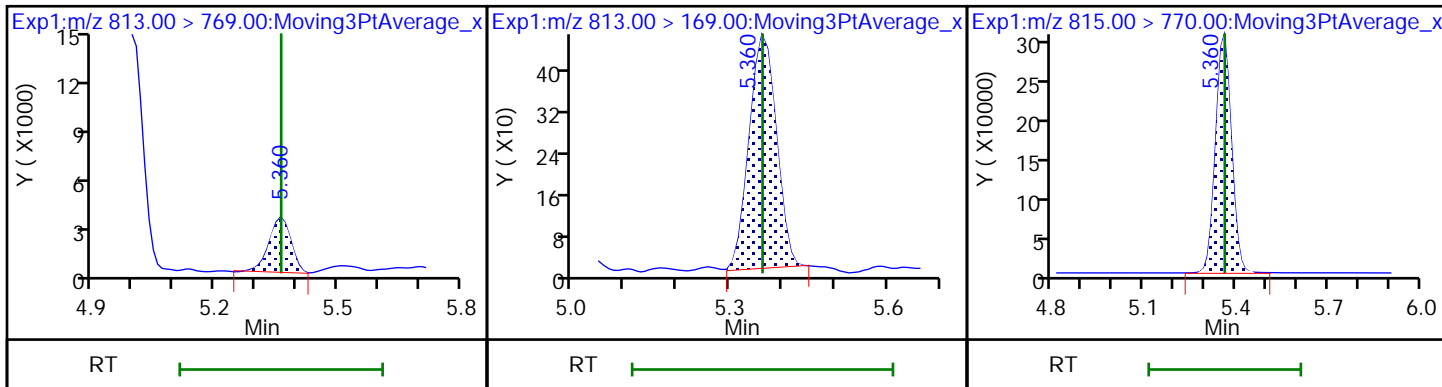
75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M) 42 Perfluorotetradecanoic acid (M)

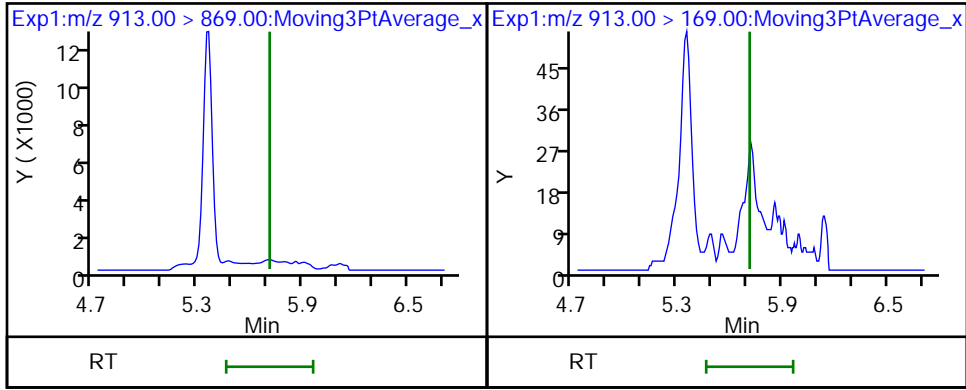


45 Perfluorohexadecanoic acid 45 Perfluorohexadecanoic acid D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

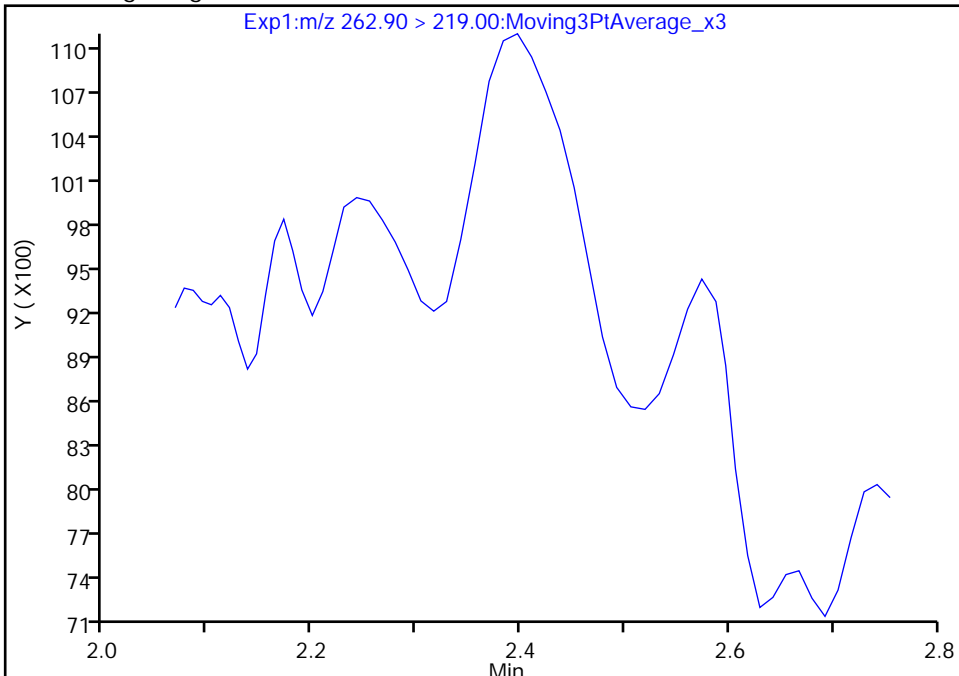
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

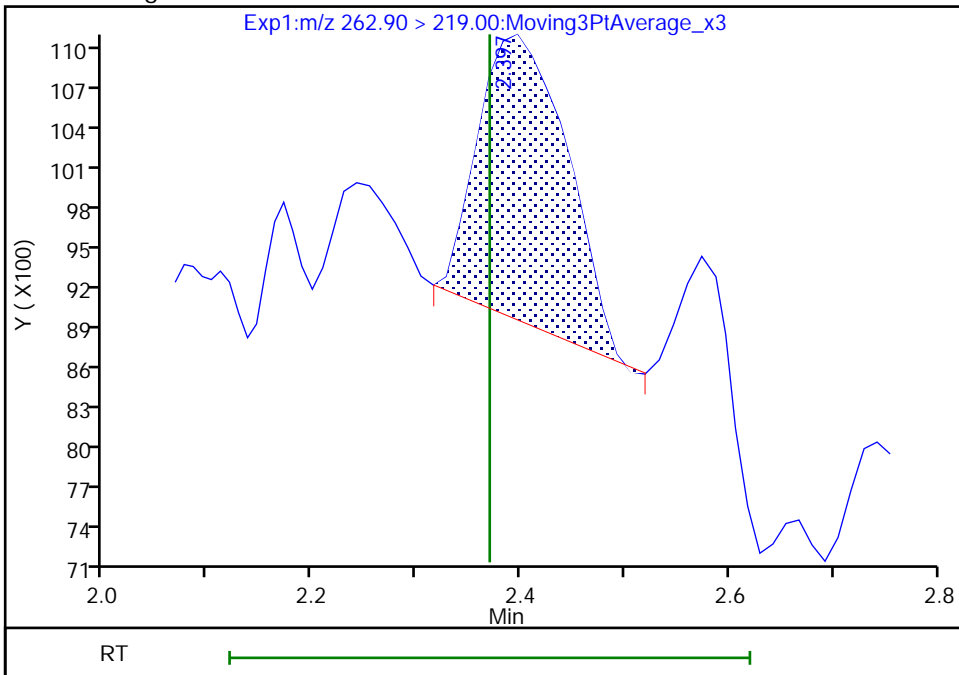
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 12746
Amount: 0.011122
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:14:42
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 702 of 950

Eurofins Burlington

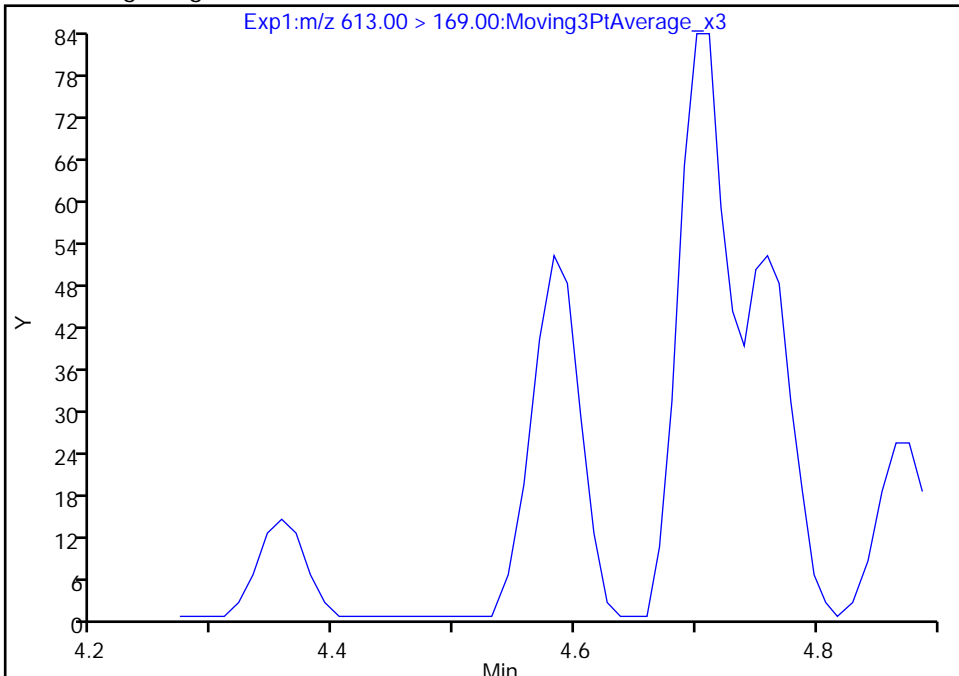
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

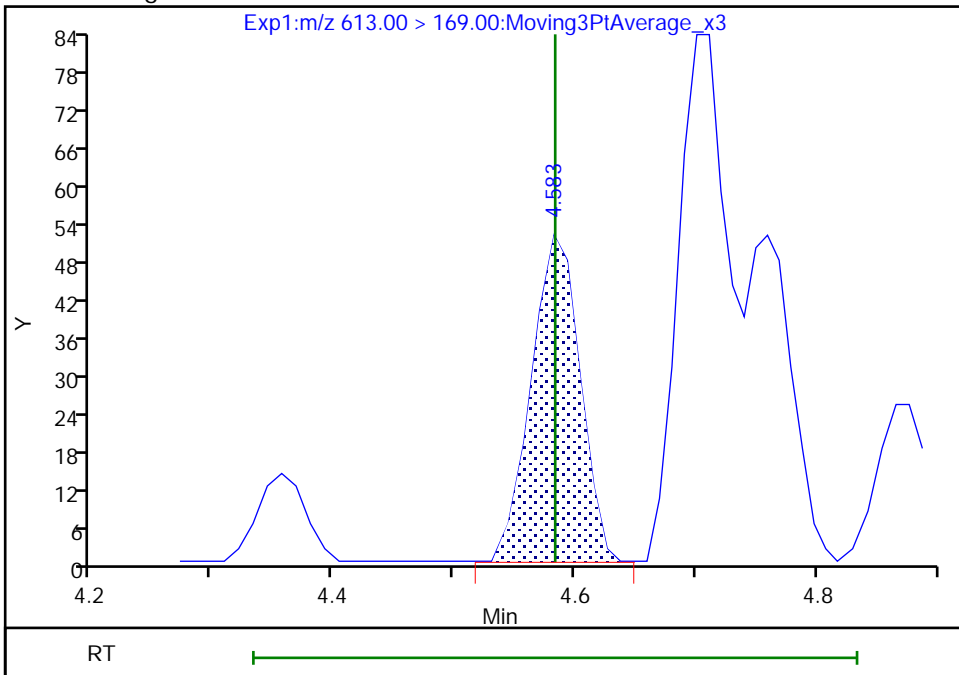
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 145
Amount: 0.002731
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:18:00
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

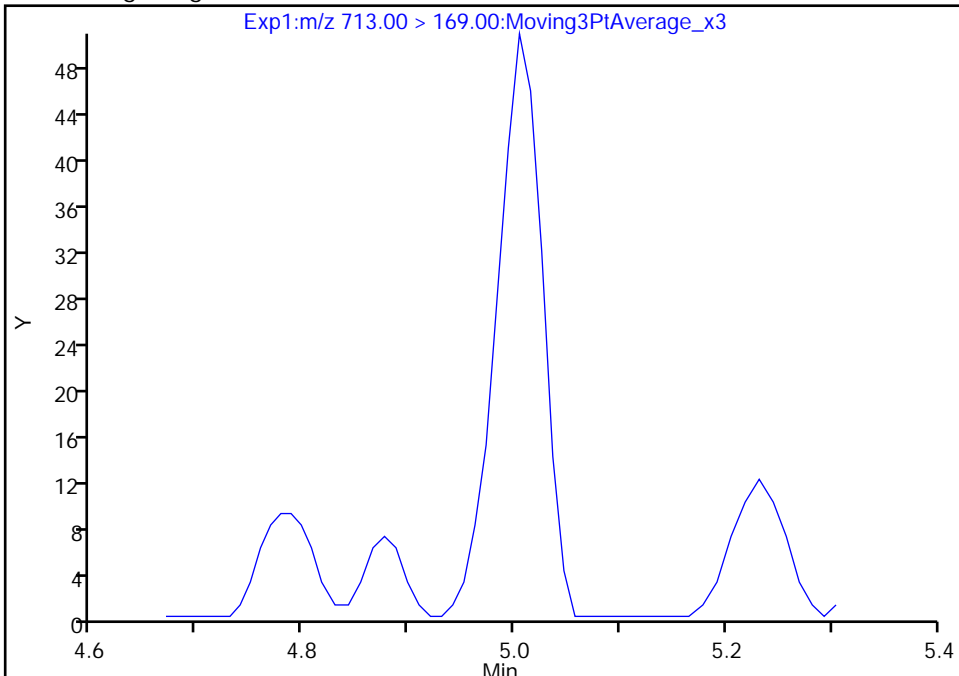
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

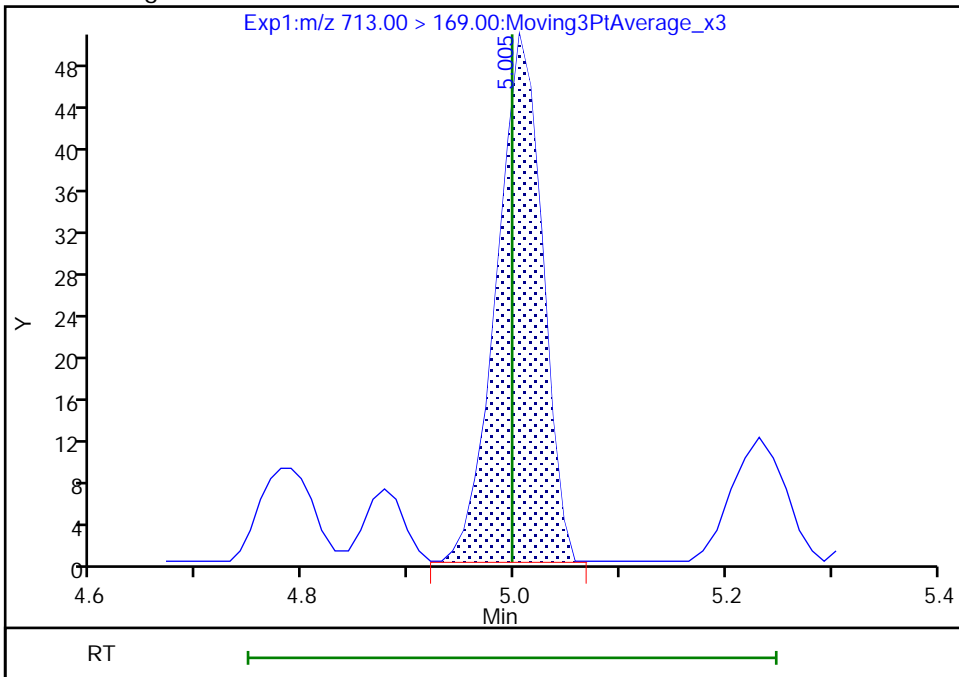
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 153
Amount: 0.001420
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:18:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

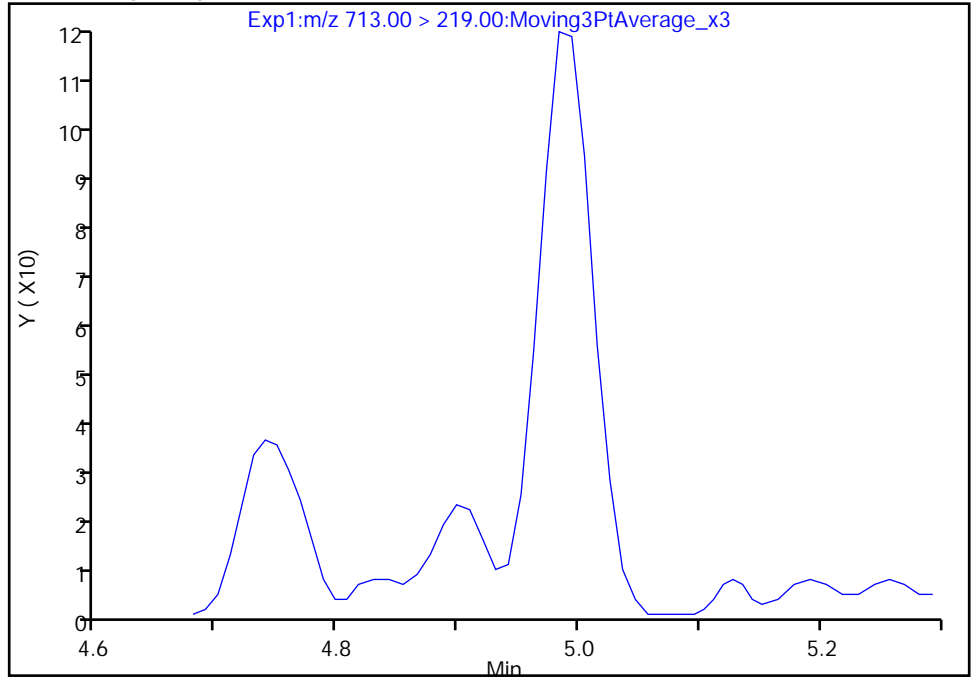
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

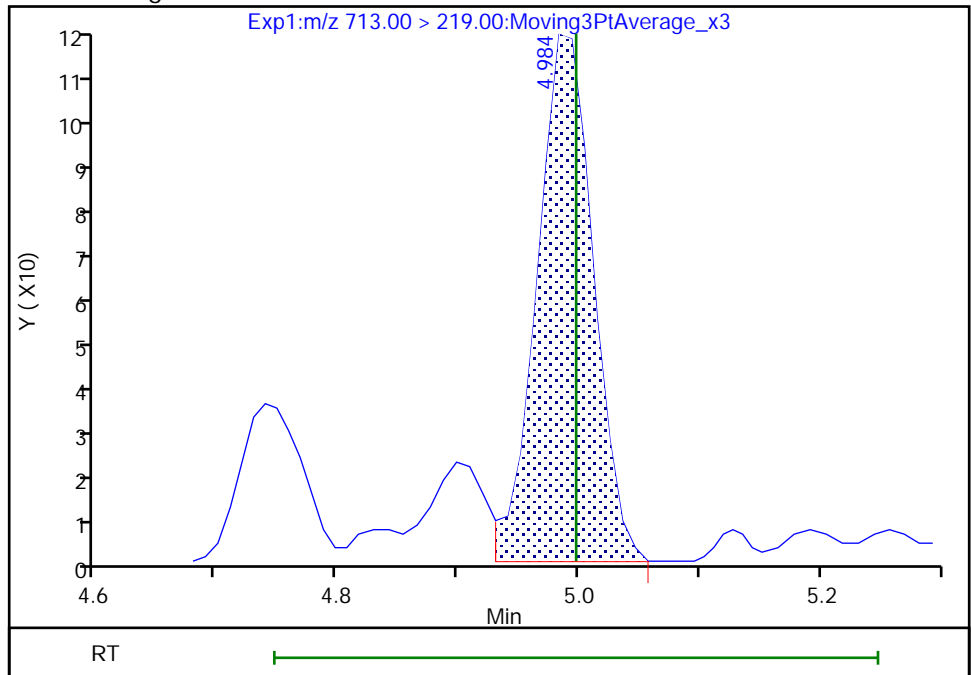
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 377
Amount: 0.001420
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:18:28

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

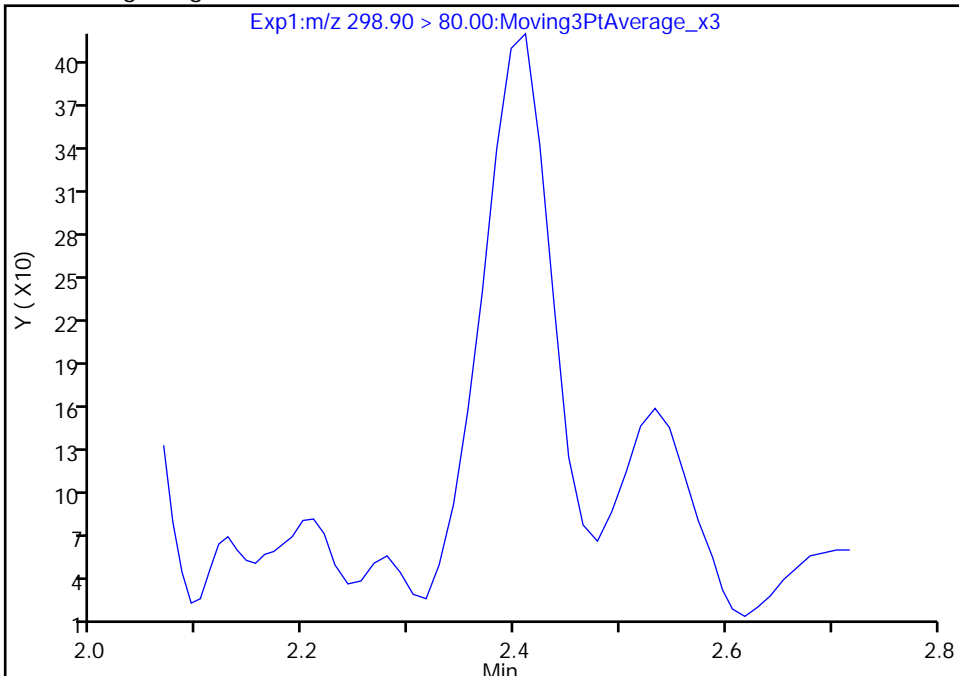
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

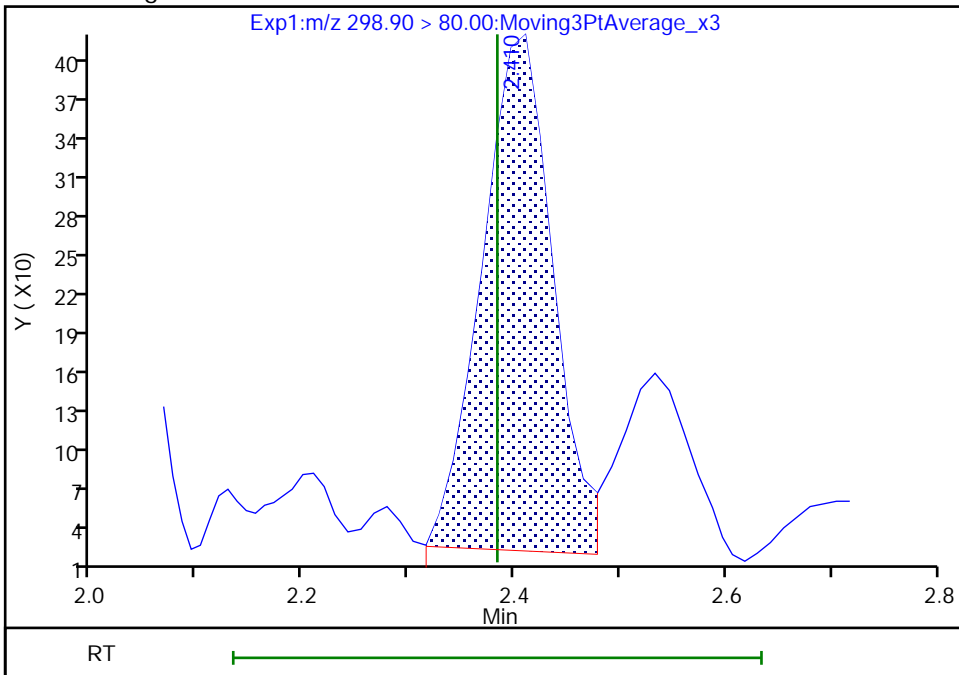
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1789
Amount: 0.001627
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:15:05
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

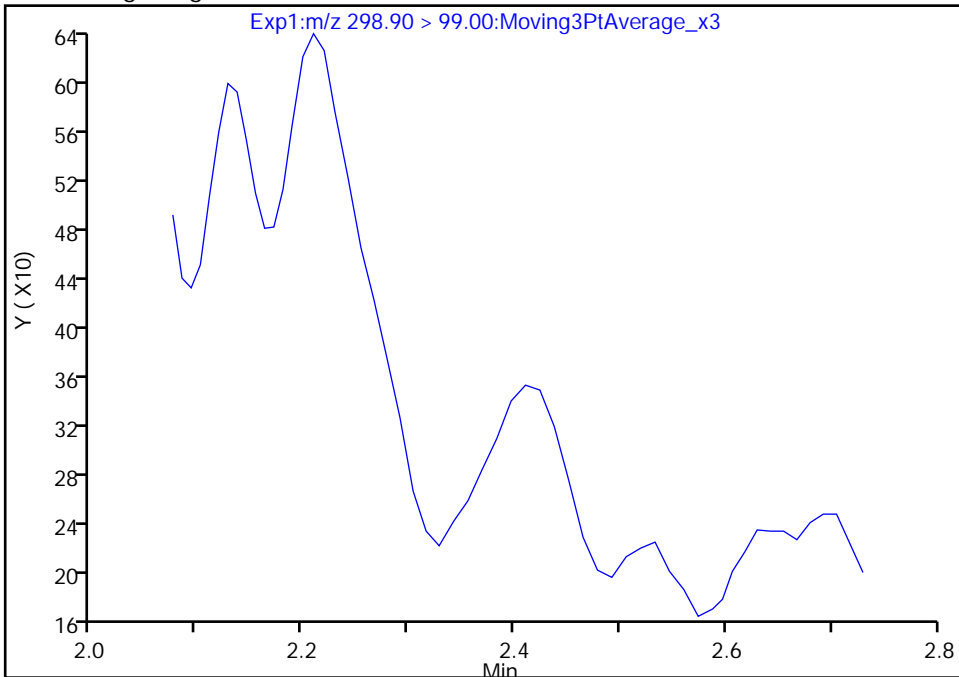
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Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

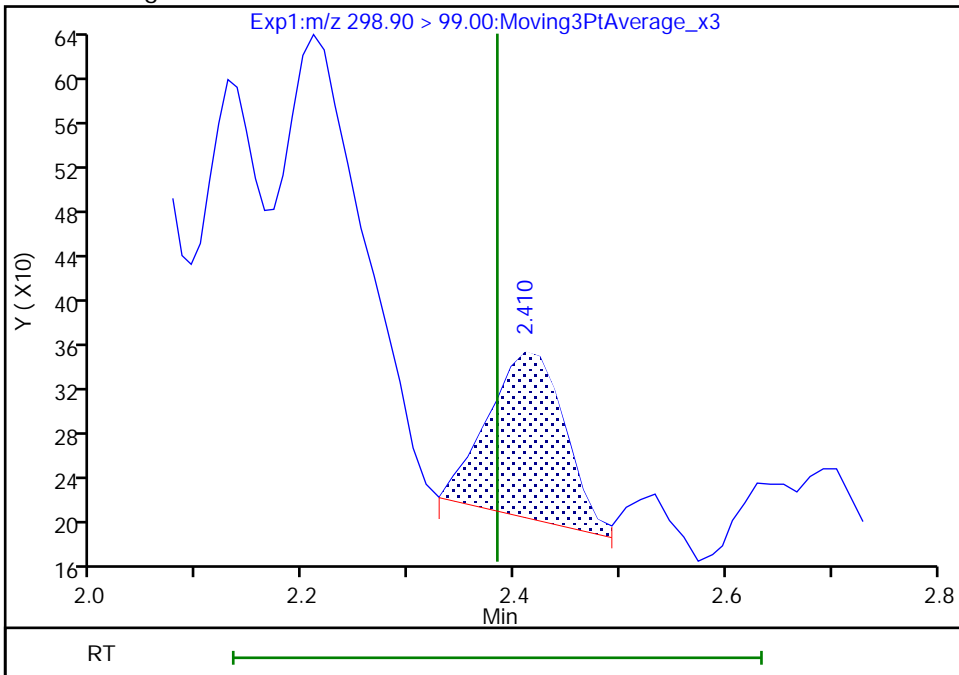
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 764
Amount: 0.001627
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:15:06
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 707 of 950

Eurofins Burlington

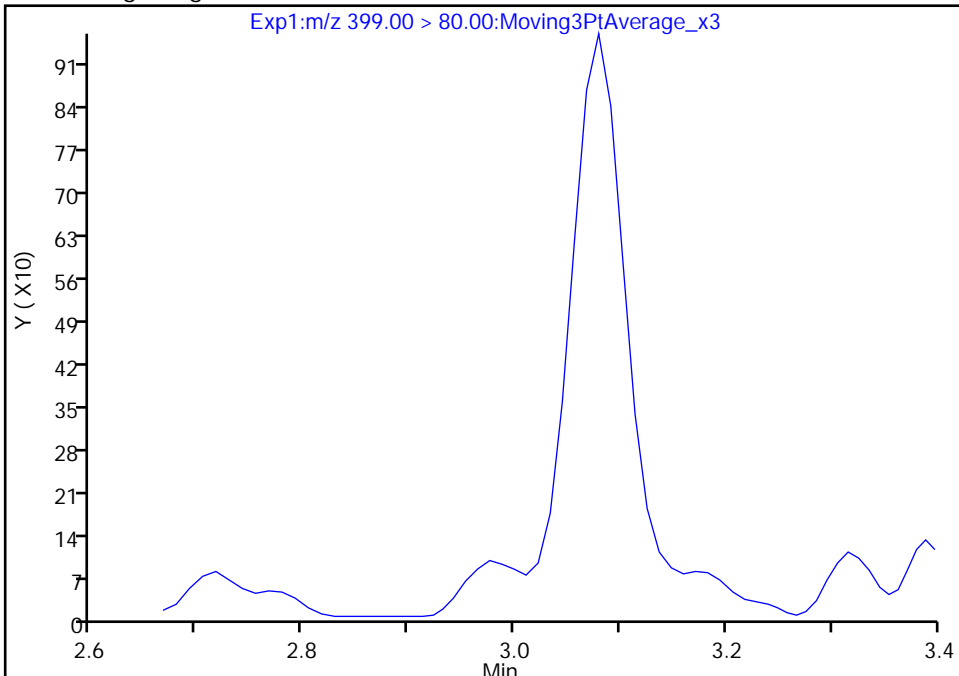
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

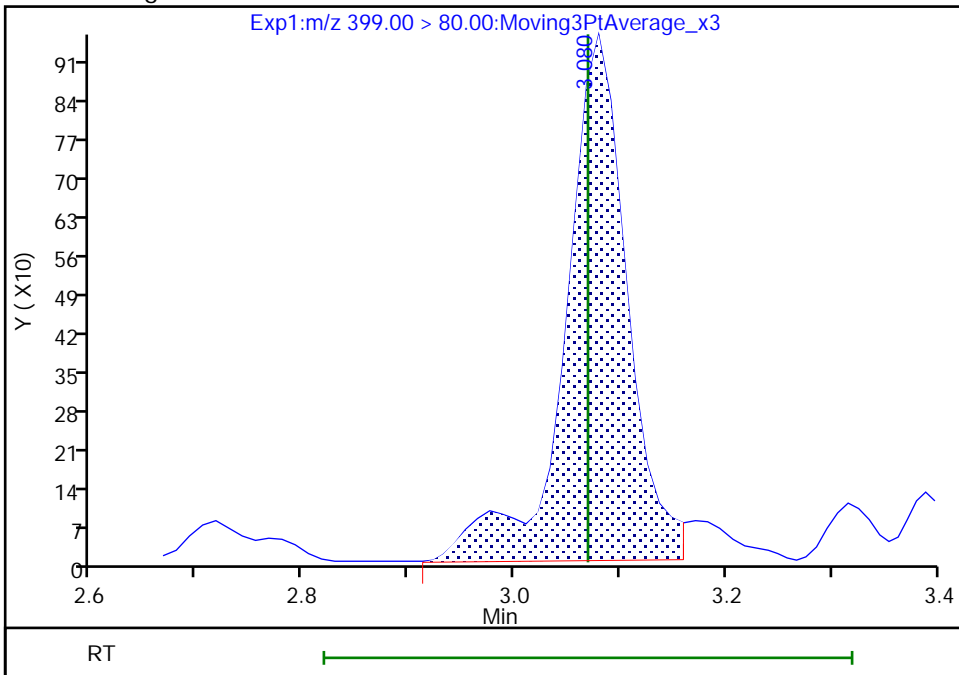
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 3922
Amount: 0.005372
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:15:36
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

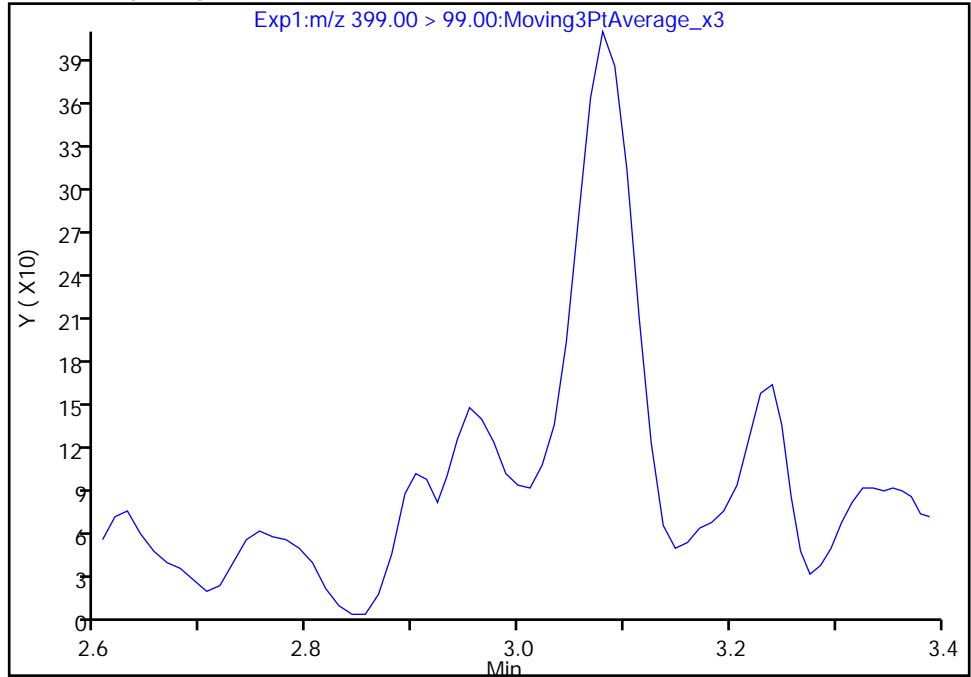
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

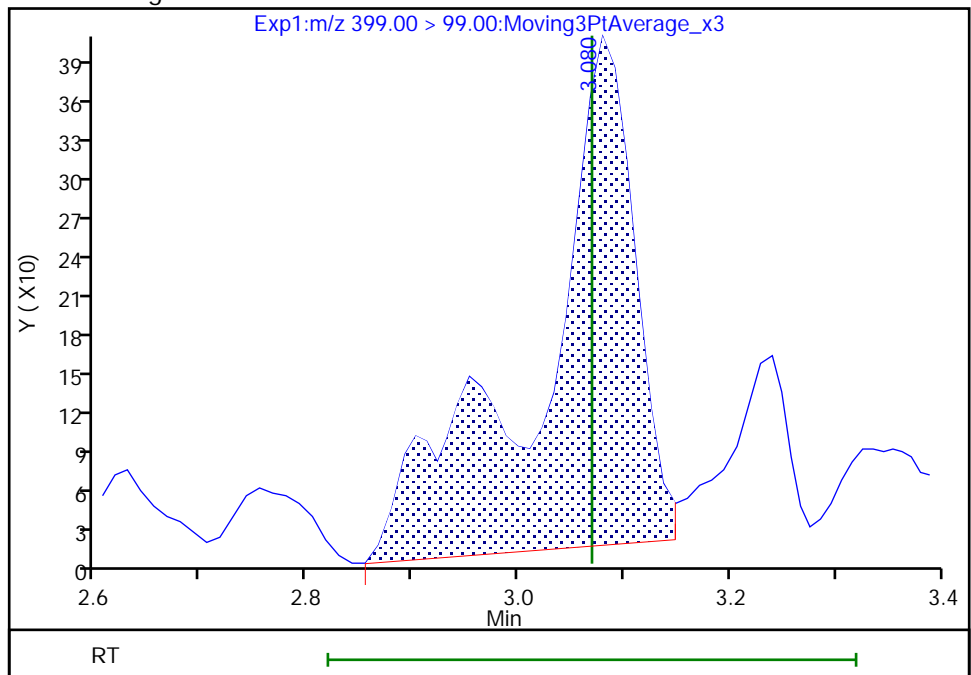
Not Detected
Expected RT: 3.07

Processing Integration Results



RT: 3.08
Area: 2461
Amount: 0.005372
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:15:38

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

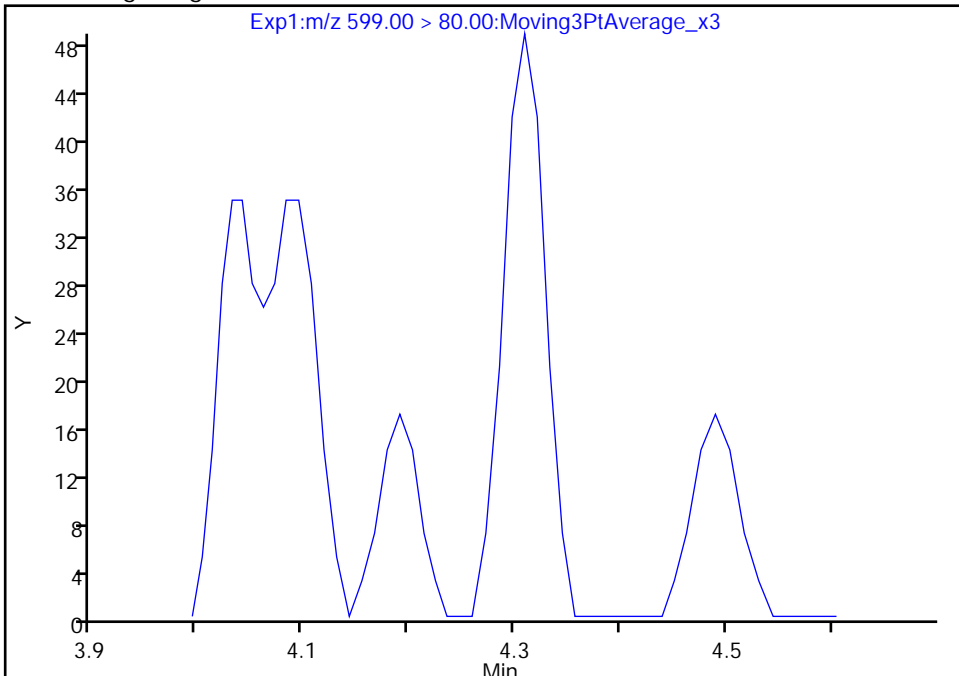
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

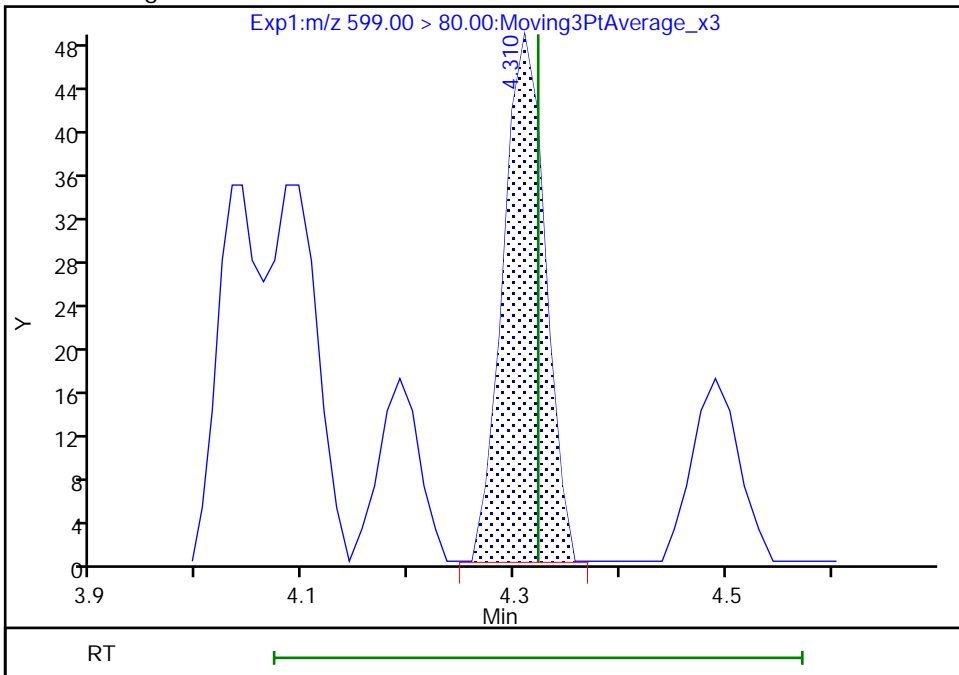
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 135
Amount: 0.000367
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:17:30
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

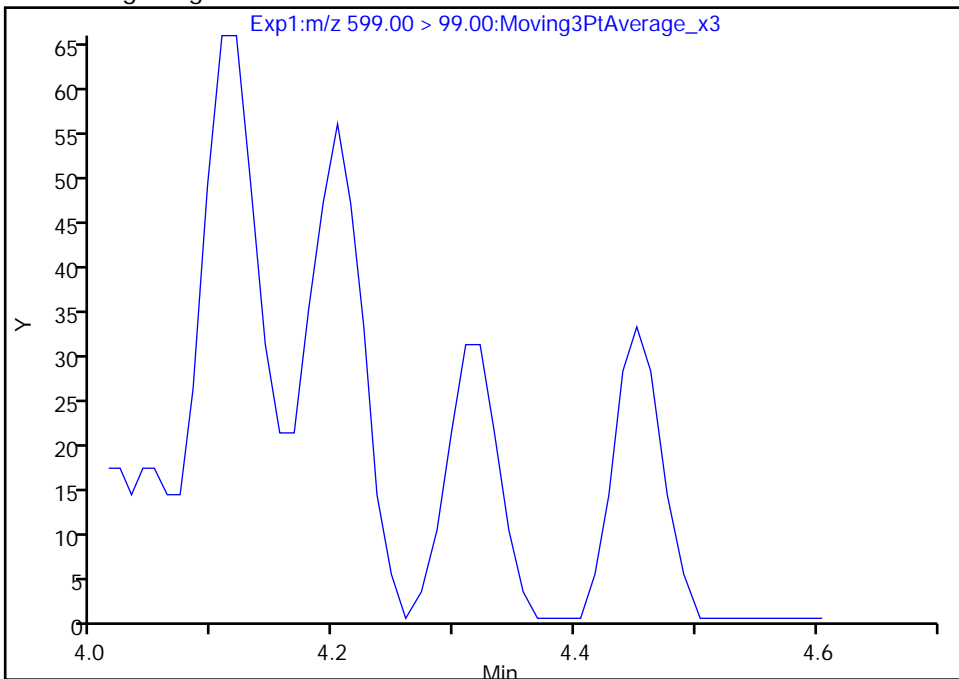
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

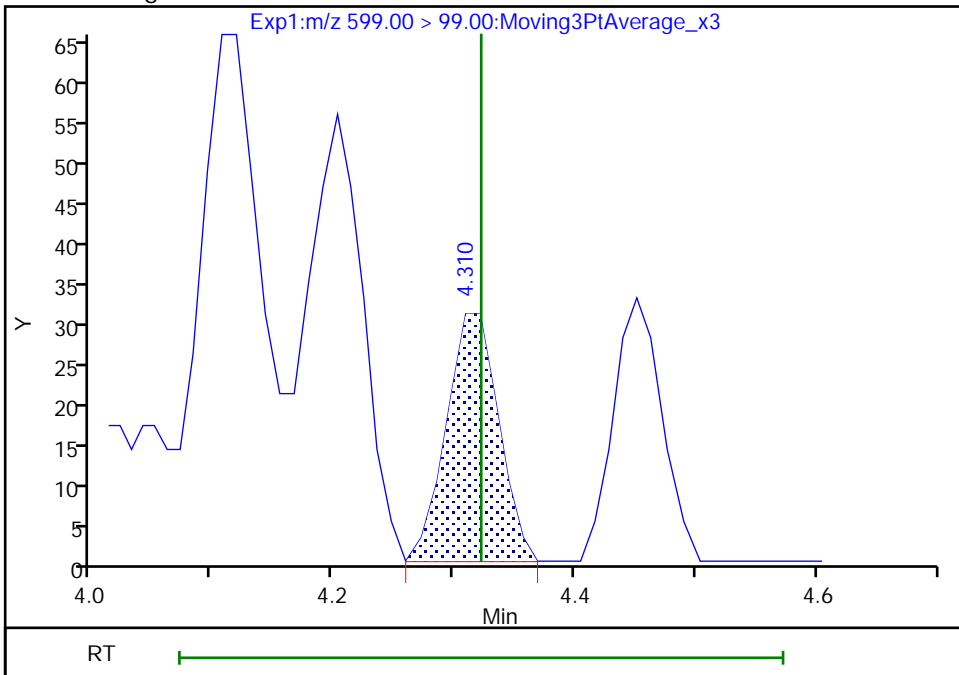
Not Detected
Expected RT: 4.32

Processing Integration Results



RT: 4.31
Area: 93
Amount: 0.000367
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:17:35
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 711 of 950

Eurofins Burlington

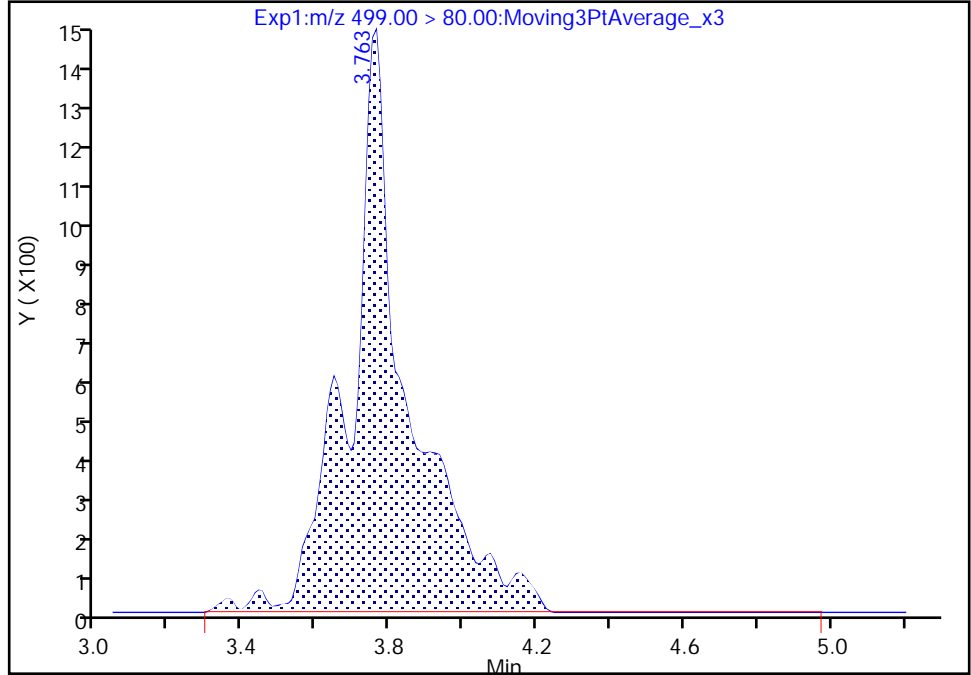
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

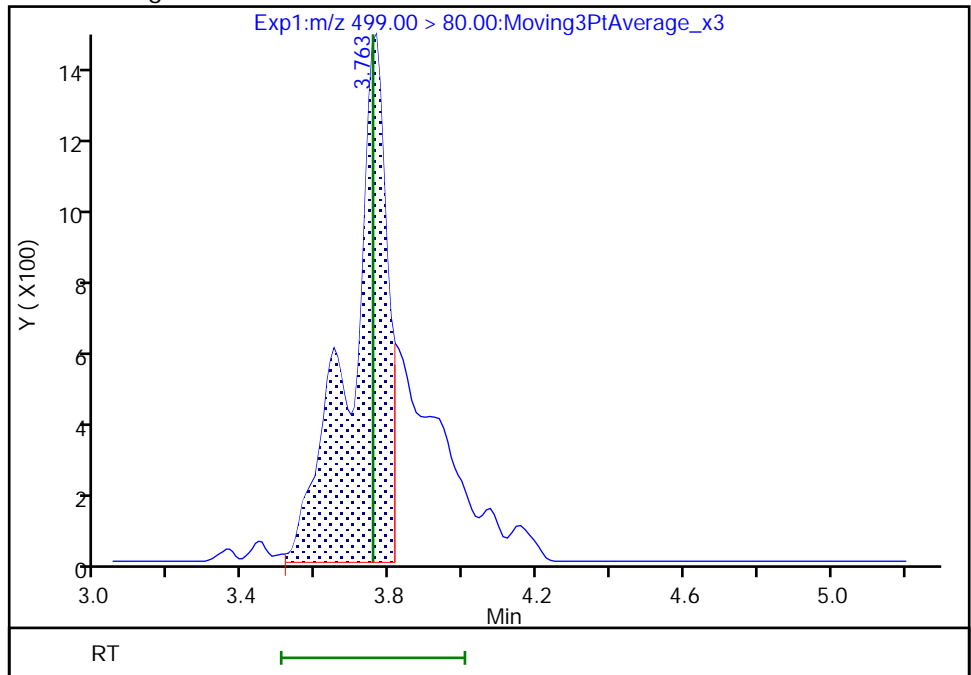
RT: 3.76
Area: 16391
Amount: 0.027576
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 10171
Amount: 0.017112
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:16:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

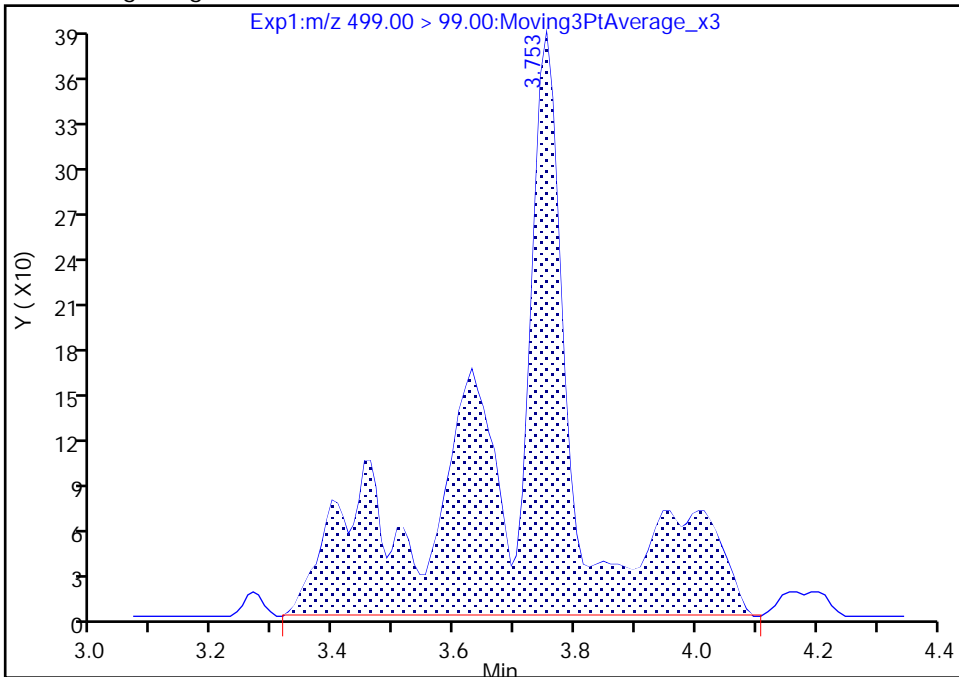
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

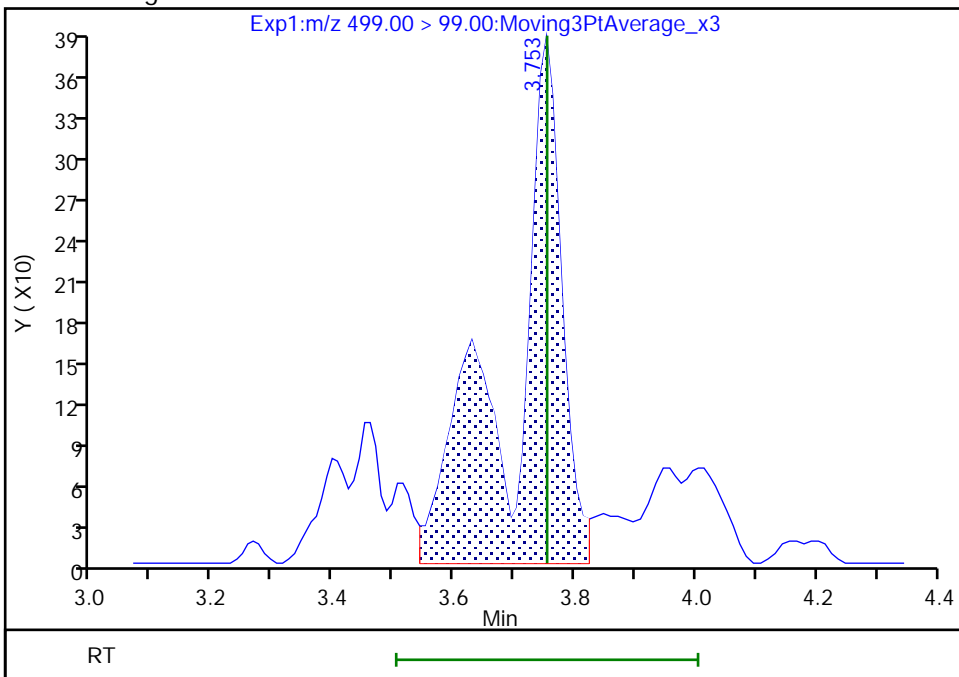
RT: 3.75
Area: 3604
Amount: 0.027576
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 2212
Amount: 0.017112
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:16:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

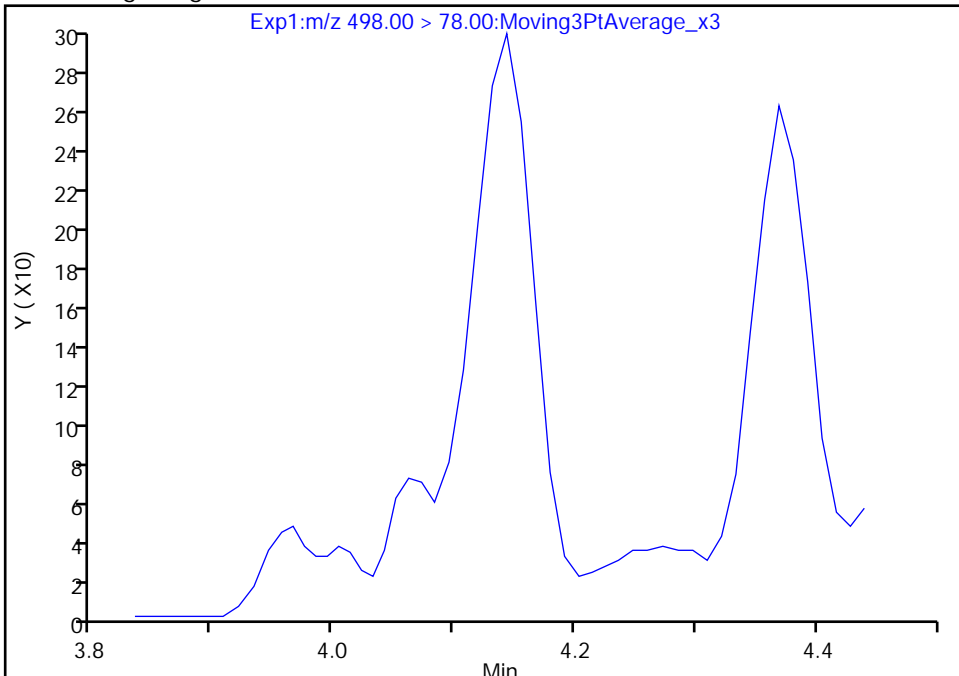
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

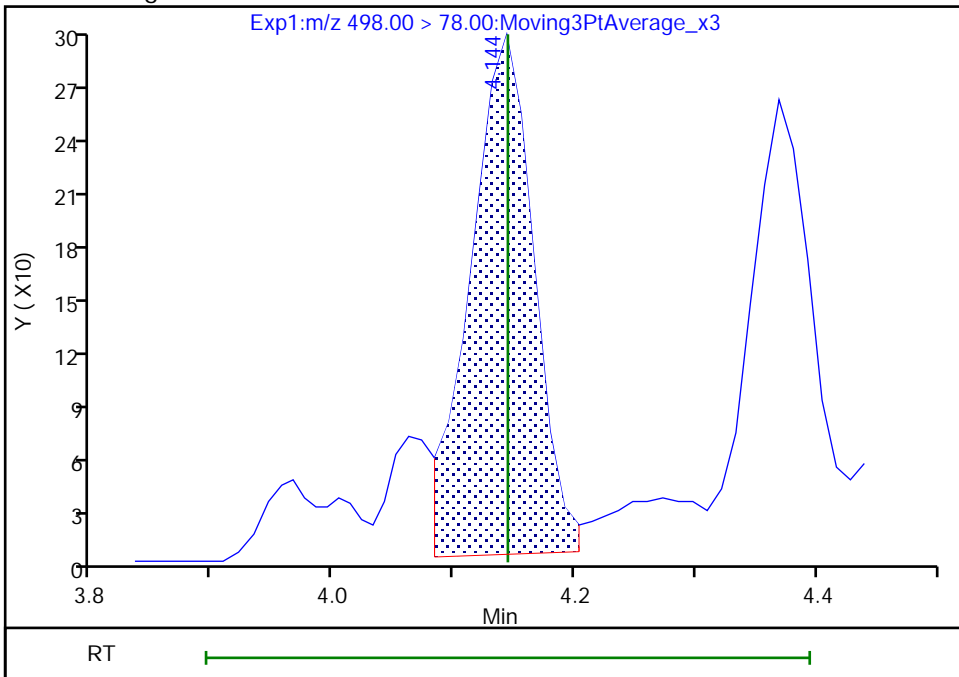
Signal: 1

Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.14
Area: 1040
Amount: 0.001302
Amount Units: ng/ml

Reviewer: SJ4N, 27-Jan-2023 11:17:20
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

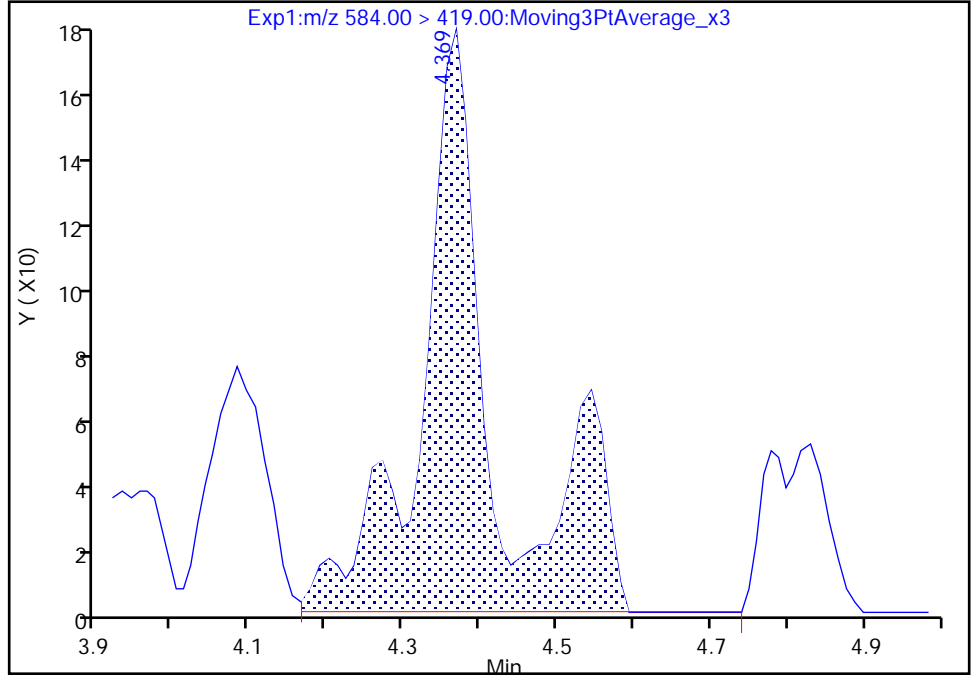
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Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

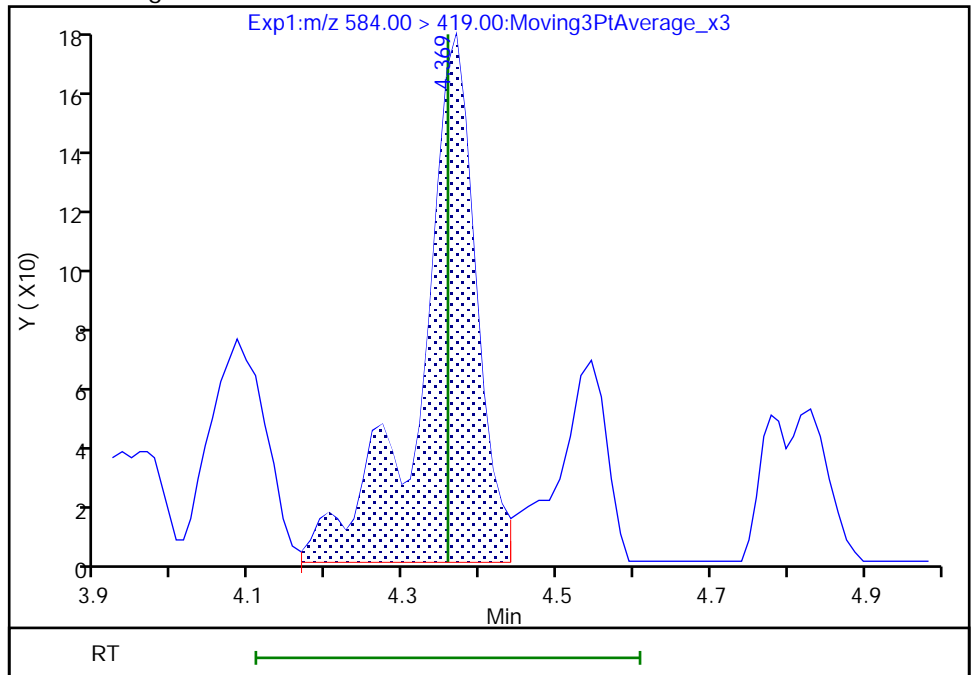
RT: 4.37
Area: 1162
Amount: 0.004970
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 872
Amount: 0.003729
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:17:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

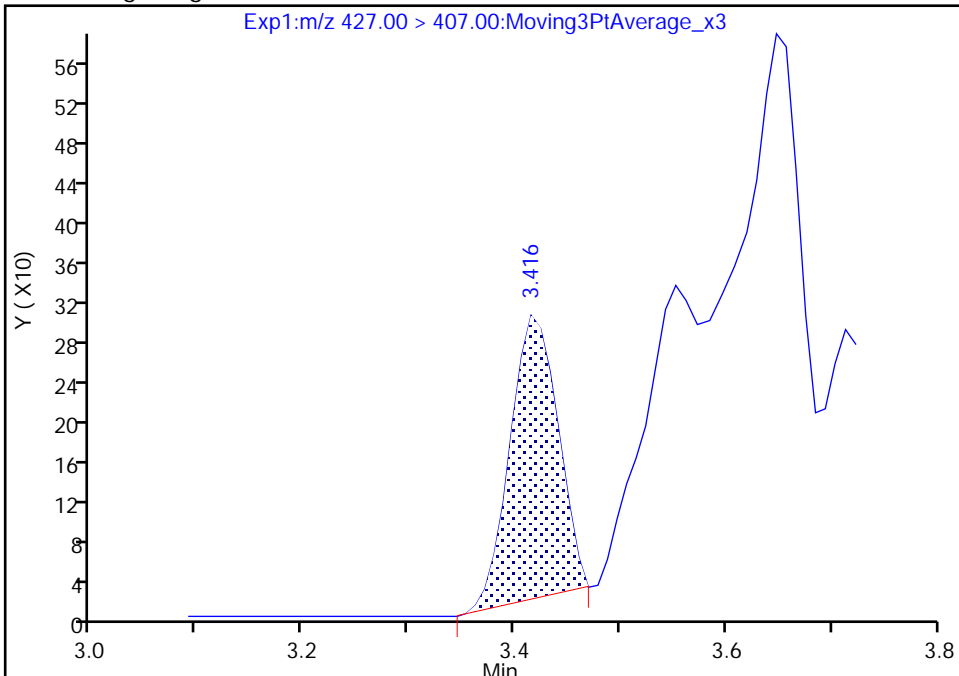
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

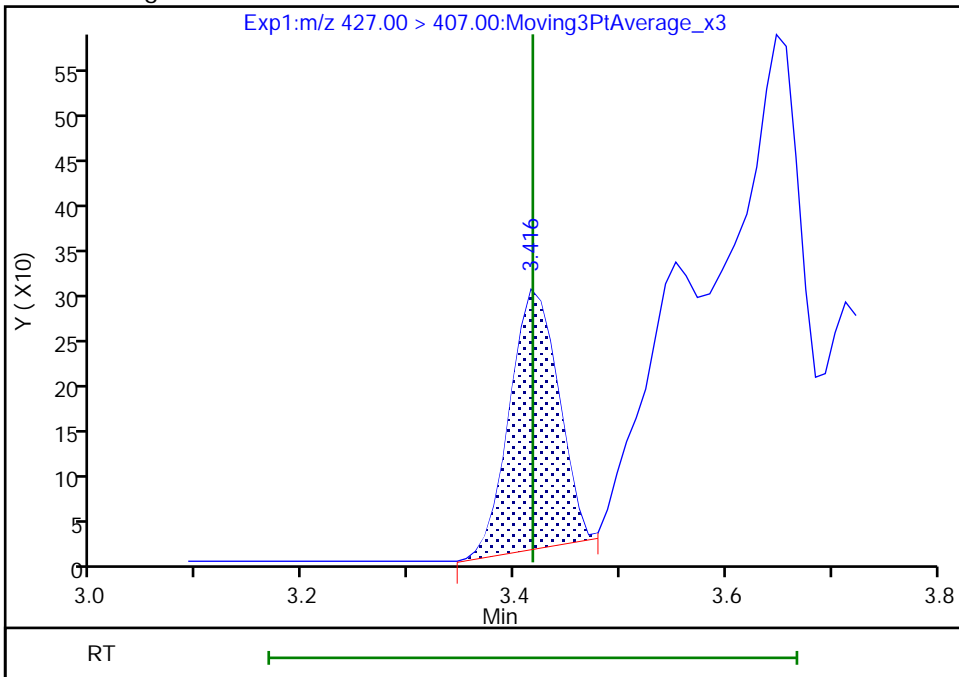
RT: 3.42
Area: 891
Amount: 0.002778
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 915
Amount: 0.002853
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 11:15:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

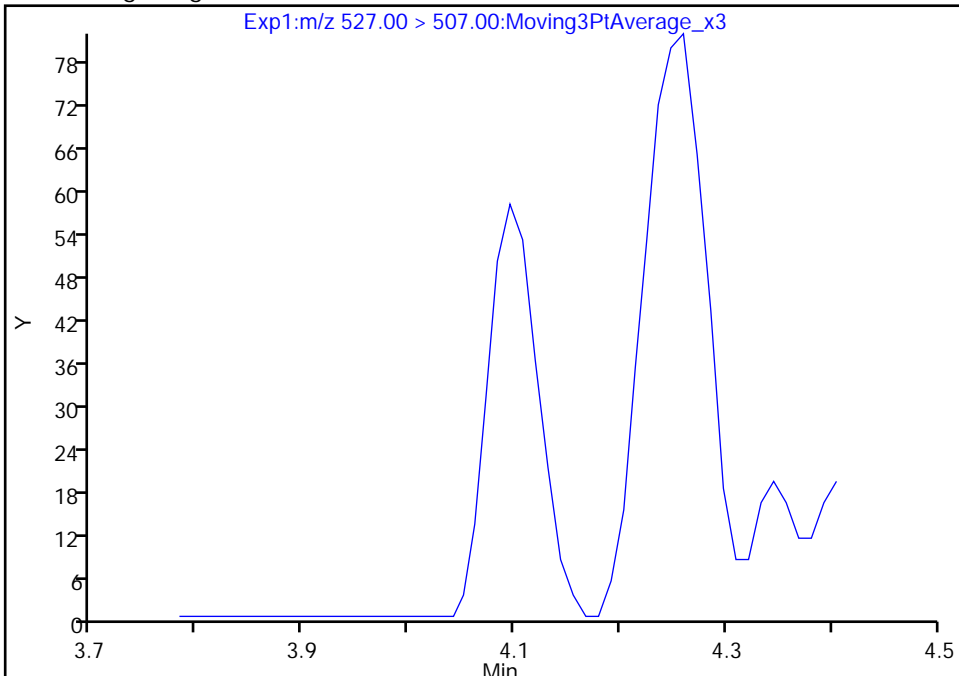
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A06.d
Injection Date: 26-Jan-2023 20:27:20 Instrument ID: LC812
Lims ID: MB 200-187806/1-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

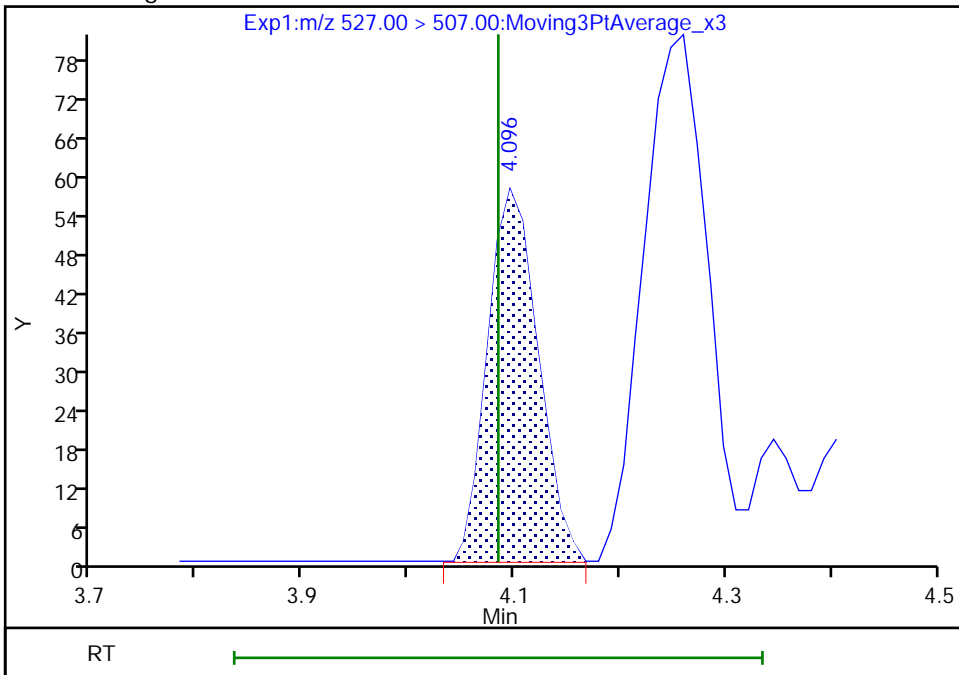
Processing Integration Results

Not Detected
Expected RT: 4.08



Manual Integration Results

RT: 4.10
Area: 192
Amount: 0.000638
Amount Units: ng/ml



Reviewer: SJ4N, 27-Jan-2023 11:17:05
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187747/4
 Matrix: Water Lab File ID: PA230123A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/23/2023 17:54
 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.: 187747 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.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187747/4
 Matrix: Water Lab File ID: PA230123A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/23/2023 17:54
 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.: 187747 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	112		50-150
STL00990	13C4 PFOA	105		50-150
STL00995	13C5 PFNA	101		50-150
STL00992	13C4 PFBA	108		50-150
STL00993	13C2 PFHxA	106		50-150
STL00996	13C2 PFDA	114		50-150
STL00997	13C2 PFUnA	93		50-150
STL00994	18O2 PFHxS	94		50-150
STL00998	13C2 PFDoA	99		50-150
STL00991	13C4 PFOS	99		50-150
STL01056	13C8 FOSA	97		50-150
STL01893	13C5 PFPeA	101		50-150
STL02116	13C2 PFTeDA	115		50-150
STL02118	d3-NMeFOSAA	110		50-150
STL02117	d5-NEtFOSAA	127		50-150
STL02279	M2-6:2 FTS	109		50-150
STL02337	13C3 PFBS	104		50-150
STL02280	M2-8:2 FTS	116		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 23-Jan-2023 17:54:30 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0054082-004 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 24-Jan-2023 17:21:05 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: khanphomeea Date: 24-Jan-2023 10:00:07
 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	2.068	2.094	-0.026	0.602	1758909	1.35	108	19626	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.103	2.094	0.009	1.017	30383	-0.0206		2.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.370	2.370	0.0	0.690	1339592	1.27	101	8741	
D 47 13C3 PFBS	301.90 > 80.00	2.384	2.384	0.0	0.694	1408780	1.21	104	147415	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.680	2.669	0.011	1.000	122	0.000433		3.1		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.780	111226	1.19	102	242	
D 7 13C2 PFHxA	315.00 > 270.00	2.718	2.694	0.024	0.791	1452407	1.32	106	7912	
D 64 13C3 HFPO-DA	287.00 > 169.00	2.830	2.806	0.024	0.824	210694	1.11	88.6	2244	
D 11 18O2 PFHxS	403.00 > 84.00	3.080	3.069	0.011	0.897	933964	1.11	93.5	4726	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.080	3.069	0.011	1.000	3641	0.004200	Target=3.18	32.1		M
399.00 > 99.00	3.080	3.069	0.011	1.000	859		4.24(1.59-4.77)	3.1		M
D 9 13C4 PFHpA	367.00 > 322.00	3.080	3.069	0.011	0.897	1538230	1.40	112	7995	
D 12 M2-6:2 FTS	429.00 > 81.00	3.425	3.417	0.008	0.997	171854	1.29	109	1348	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.434	3.417	0.017	1.003	855	0.002580		2.2		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	1.000	1522740	1.31		105	12325	
* 62 13C2 PFOA										
415.00 > 370.00	3.434	3.426	0.008		1421523	1.25			8628	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.425	3.426	-0.001	0.997	4966	0.003746	Target=2.71	0.5		R
413.00 > 169.00	3.434	3.426	0.008	1.000	608		8.17(1.36-4.07)	1.7		M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.754	0.0	1.093	606325	1.18		98.8	4460	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.734	3.754	-0.020	0.995	1345	0.002182	Target=4.23	2.3		M
499.00 > 99.00	3.695	3.754	-0.059	0.984	440		3.06(2.11-6.34)	1.8		M
D 19 13C5 PFNA										
468.00 > 423.00	3.774	3.774	0.0	1.099	1427243	1.26		101	9540	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.909	3.922	-0.013	1.041	459	0.000312		2.8		M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.033	4.043	-0.010	1.075	342	0.000668	Target=2.37	4.1		M
549.00 > 99.00	4.052	4.043	0.009	1.080	269		1.27(1.18-3.55)	3.8		M
D 23 13C2 PFDA										
515.00 > 470.00	4.063	4.074	-0.011	1.183	1660089	1.43		114	9242	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.074	4.085	-0.011	1.186	231903	1.39		116	1634	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.144	4.144	0.0	1.000	358	0.000389		2.5		M
D 21 13C8 FOSA										M
506.00 > 78.00	4.144	4.144	0.0	1.207	1143115	1.21		96.6	2622	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.215	4.226	-0.011	1.227	313473	1.37		110	1791	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.215	4.226	-0.011	1.000	140	0.000619		0.4		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.334	4.346	-0.012	1.262	1162134	1.16		92.5	6078	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.358	4.358	0.0	1.003	475	0.001829		1.6		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.346	4.358	-0.012	1.265	349461	1.59		127	866	
D 36 13C2 PFDaA										
615.00 > 570.00	4.571	4.584	-0.013	1.331	1252161	1.24		99.4	7561	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.583	4.606	-0.023	1.125	34	0.000153		1.2		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.987	4.998	-0.011	1.000	247	0.001993	Target=0.83	4.8		M
713.00 > 219.00	4.976	4.998	-0.022	0.998	374		0.66(0.42-1.25)	7.1		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.987	4.998	-0.011	1.452	1241035	1.43		115	4903	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.362	-0.012	1.002	13725	-0.002411	Target=6.74		3.0	
813.00 > 169.00	5.350	5.362	-0.012	1.002	2282		6.01(3.37-10.11)		35.1	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.339	5.362	-0.023	1.555	1405897	1.32		106	8040	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.702	5.711	-0.009	1.068	1127	0.001239	Target=6.99		0.4	RM
913.00 > 169.00	5.711	5.711	0.0	1.070	92		12.25(3.50-10.49)		3.6	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: \\chromf\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d

Injection Date: 23-Jan-2023 17:54:30

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: LC812user

ALS Bottle#: 1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

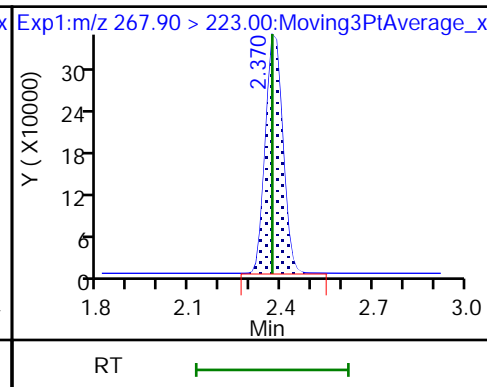
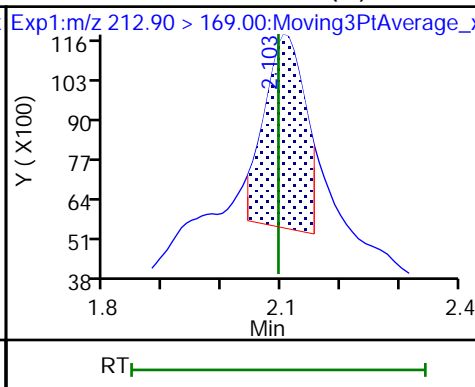
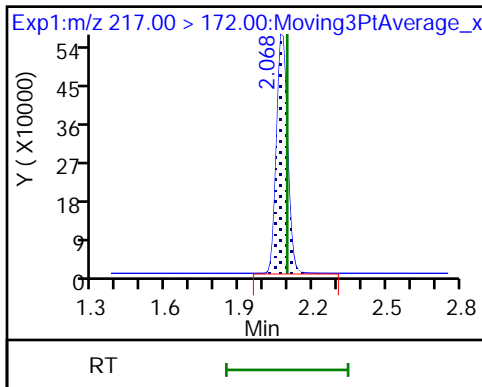
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

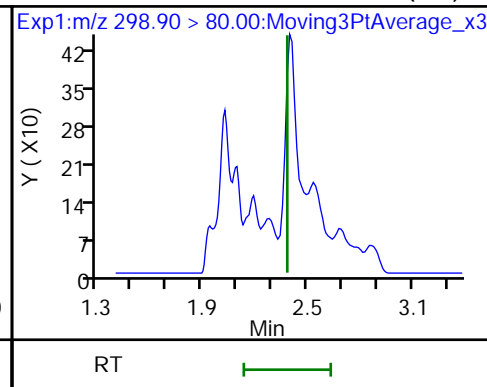
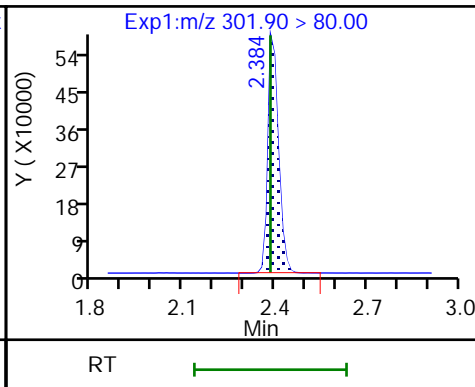
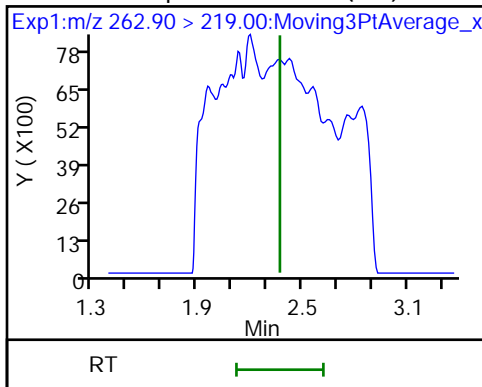
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

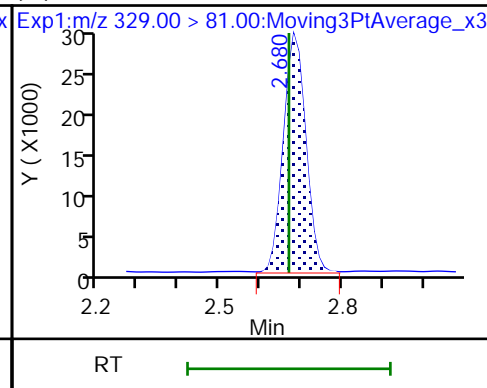
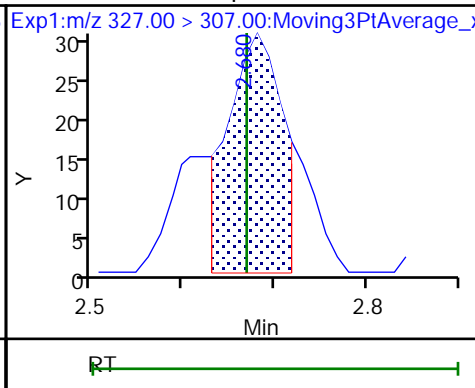
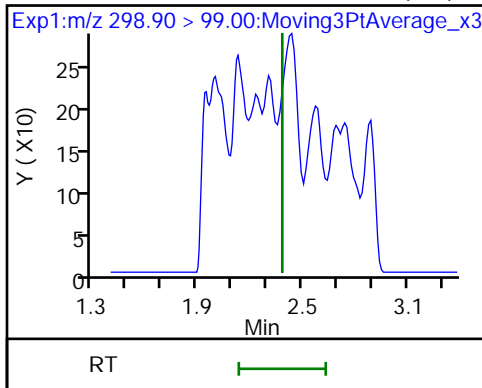
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (ND)



5 Perfluorobutanesulfonic acid (ND)

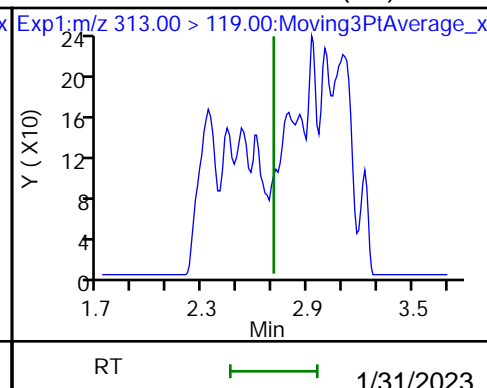
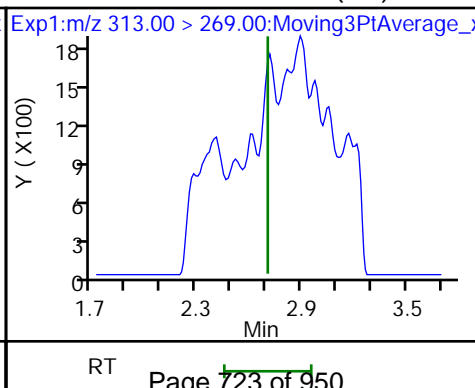
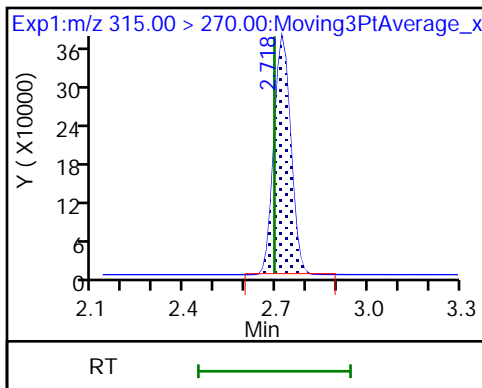
61 1H,1H,2H,2H-perfluorohexanesulfo (M) 60 M2-4:2 FTS



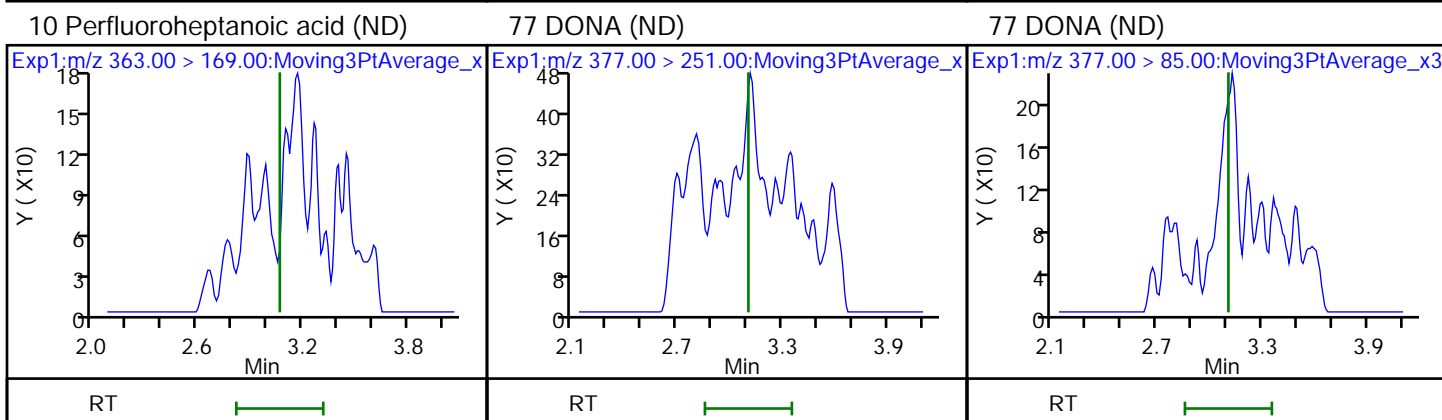
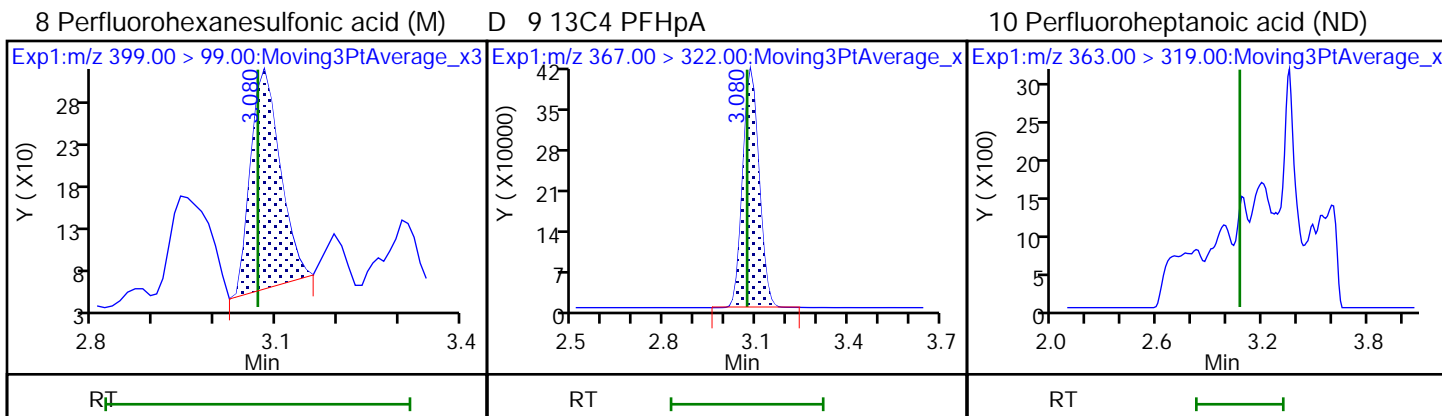
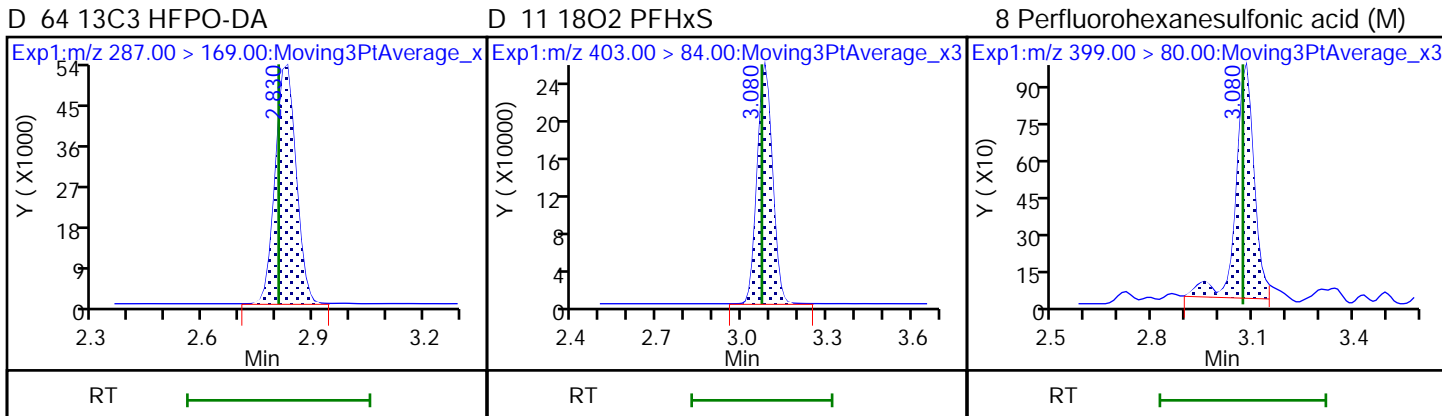
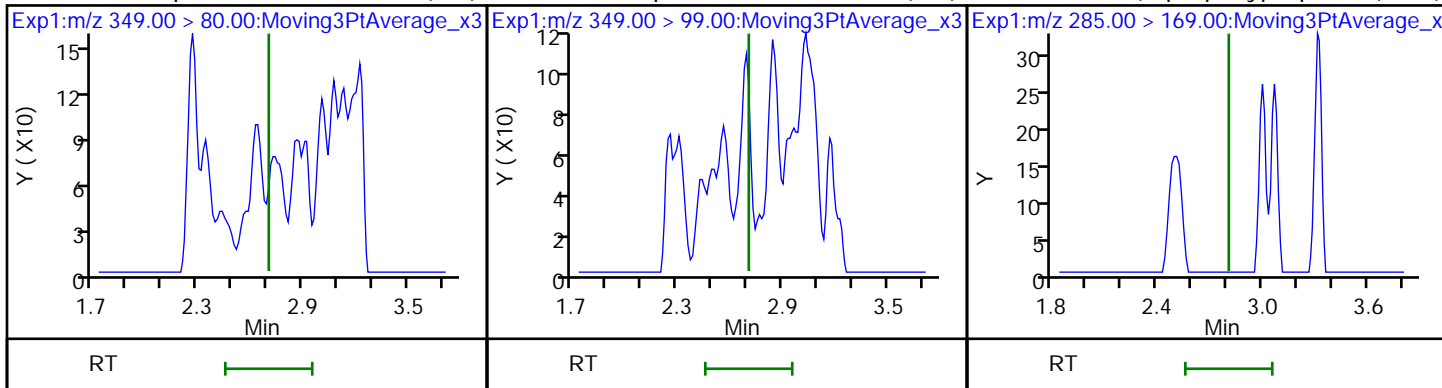
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)

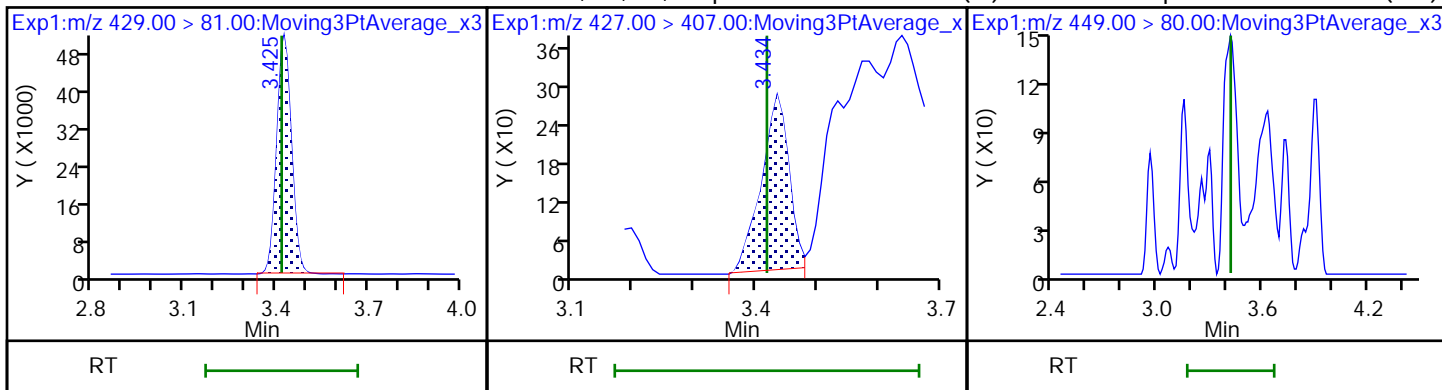


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (ND)



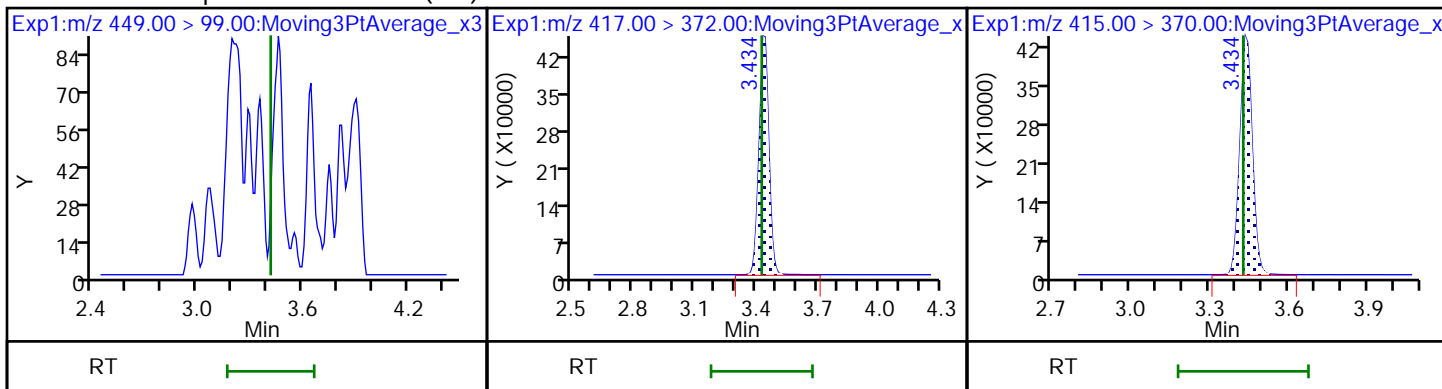
D 12 M2-6:2 FTS

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



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

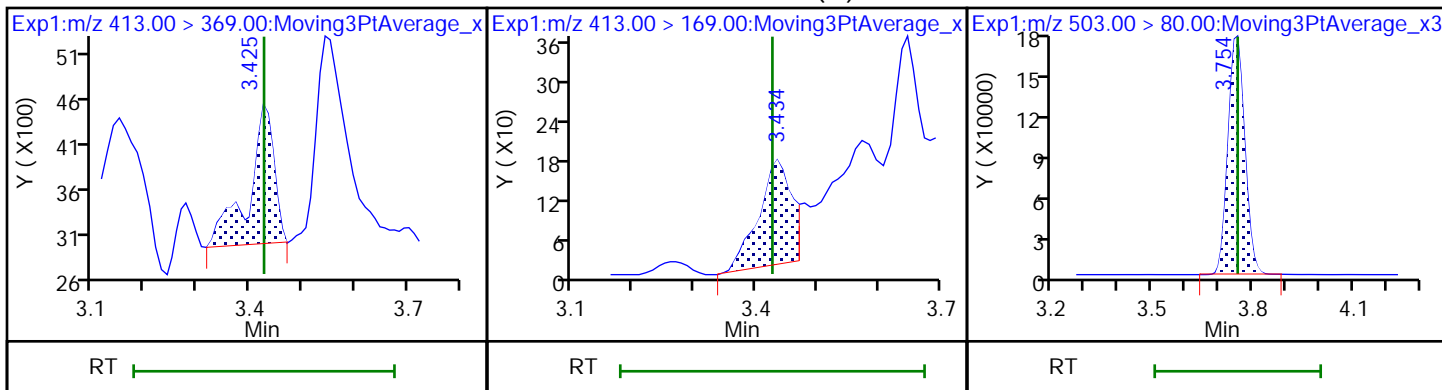
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

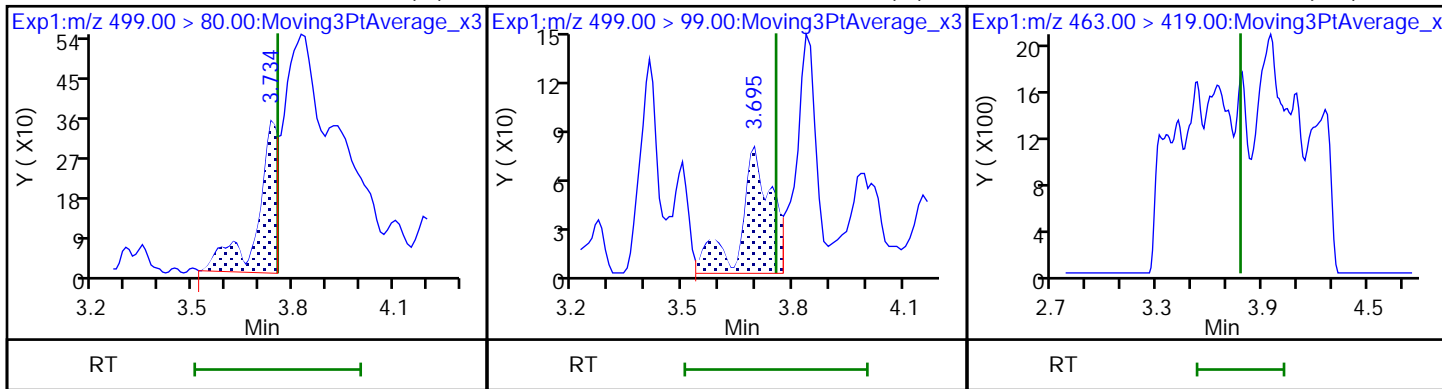
D 18 13C4 PFOS

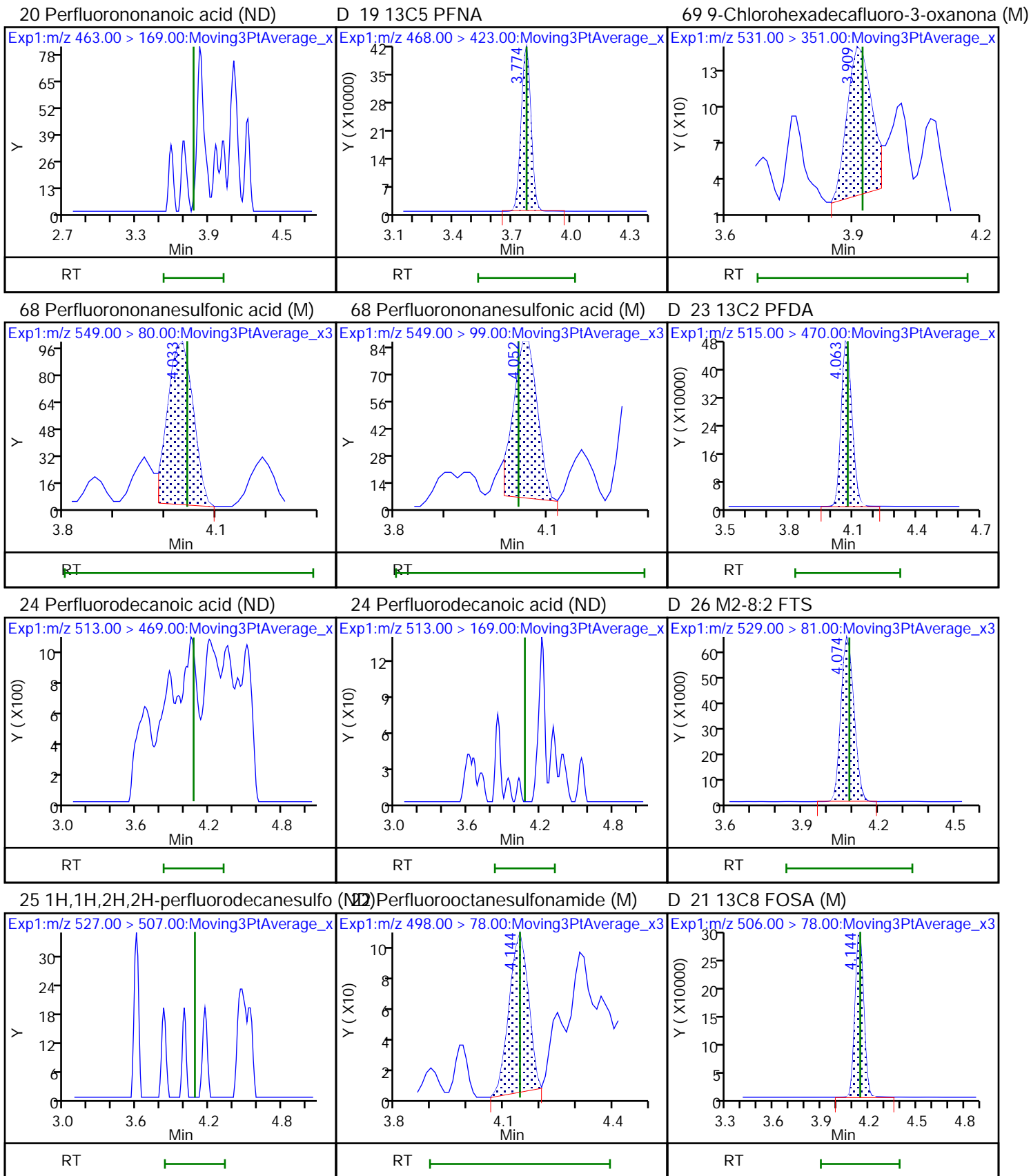


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

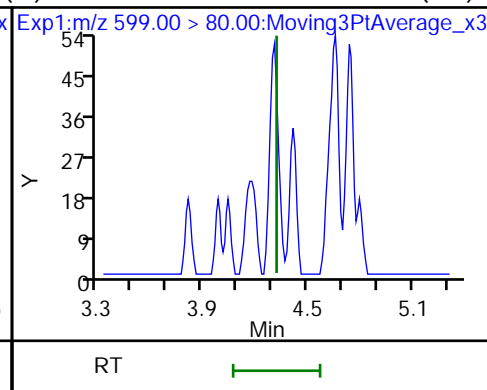
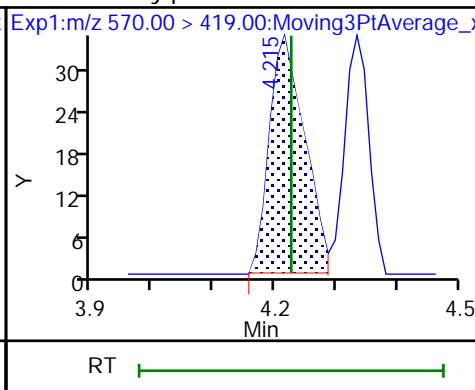
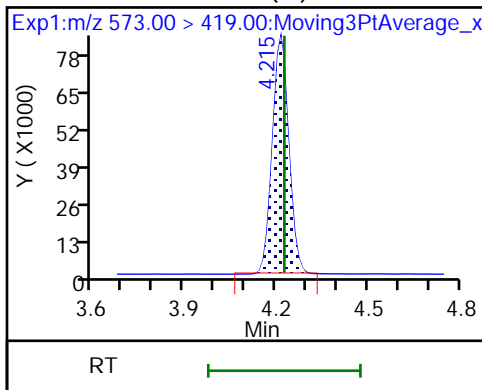




D 27 d3-NMeFOSAA (M)

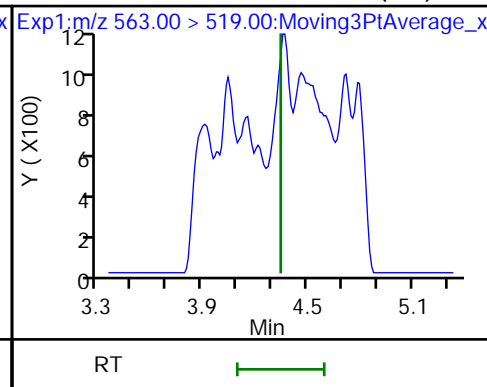
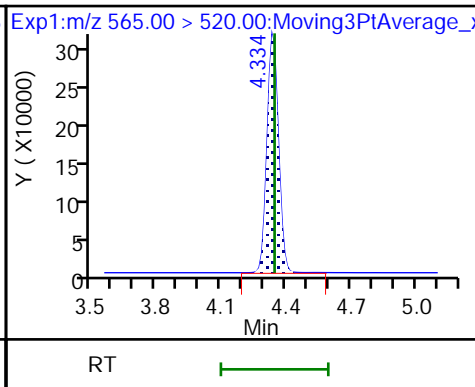
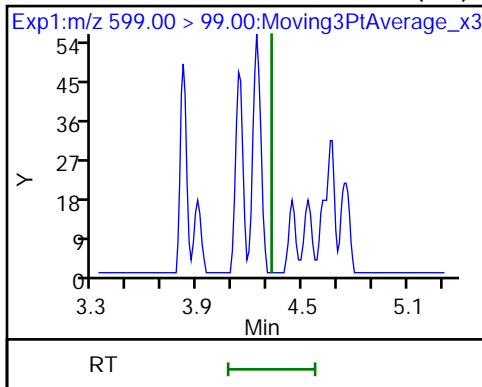
28 N-methylperfluorooctanesulfonami (M)

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUoA

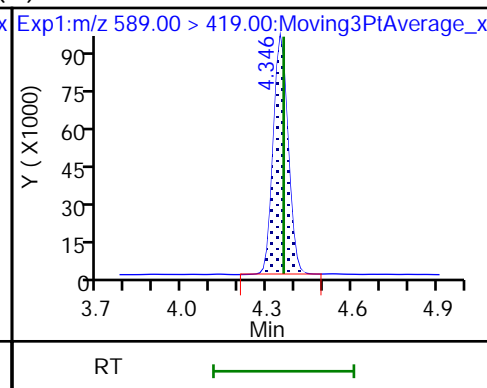
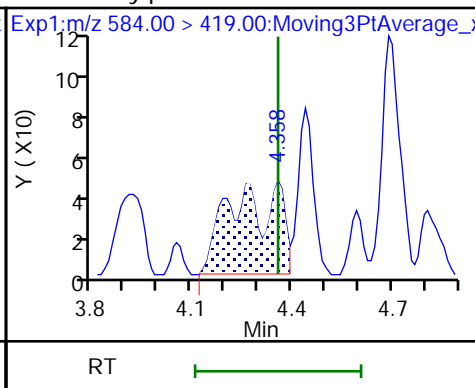
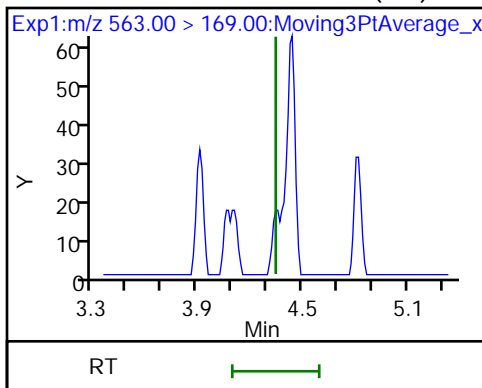
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

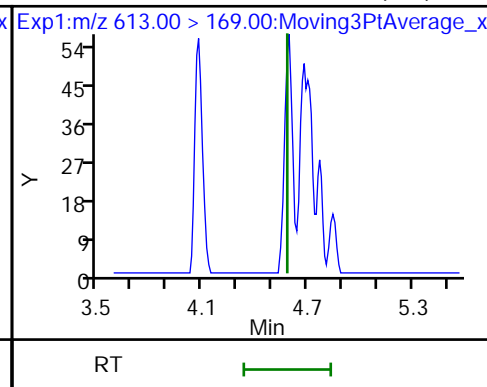
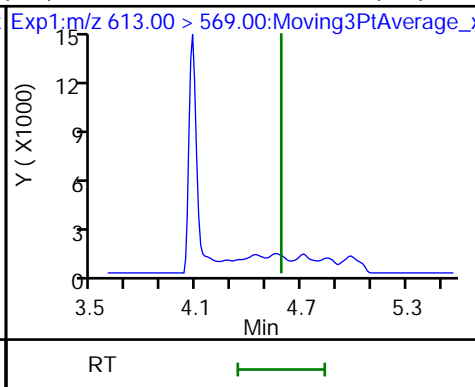
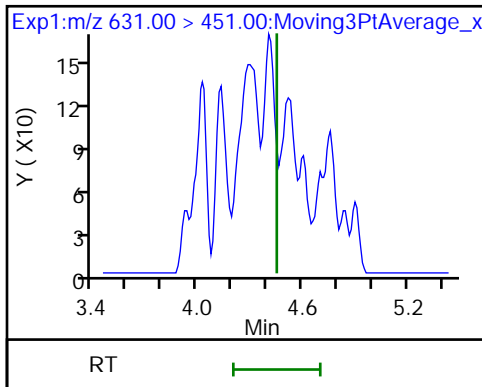
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec (ND)

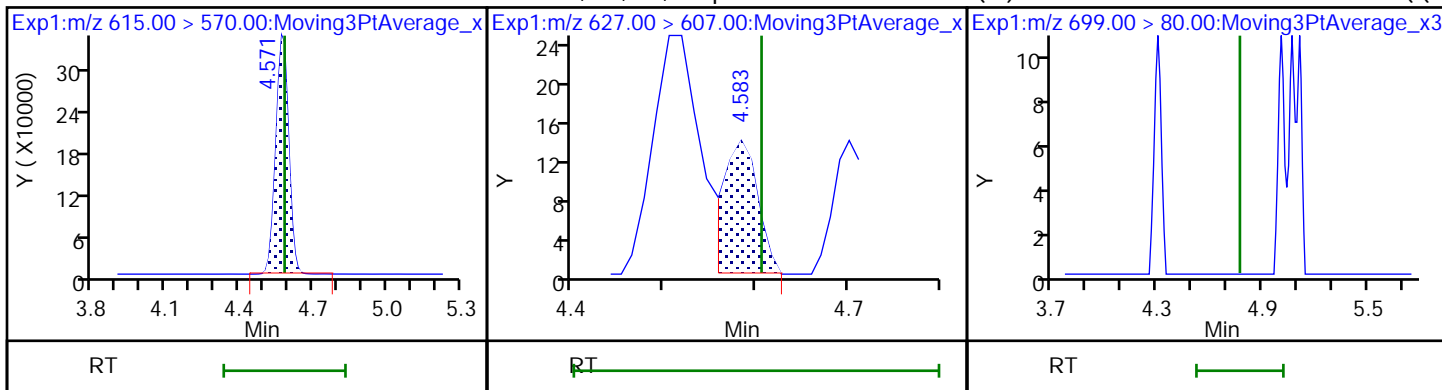
35 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)

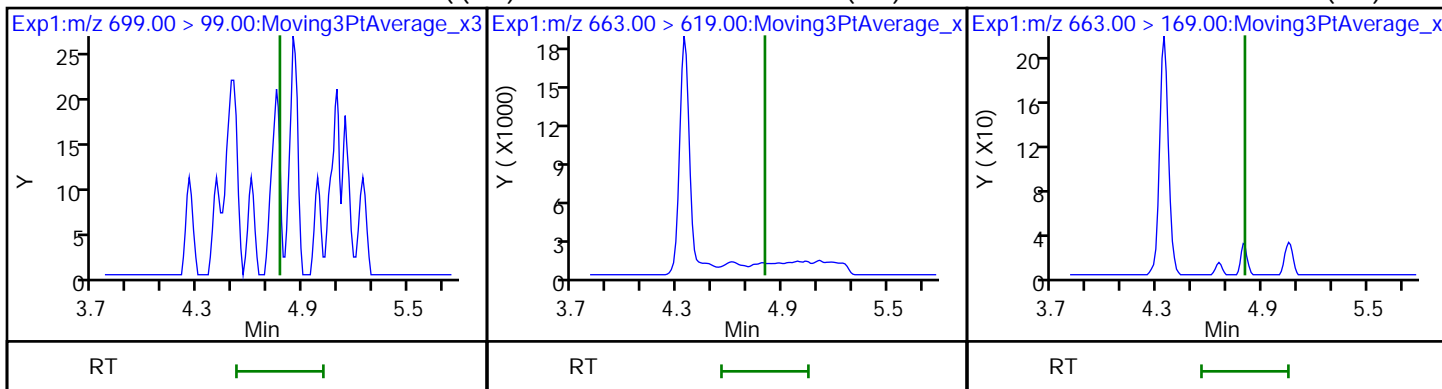


D 36 13C2 PFDaA

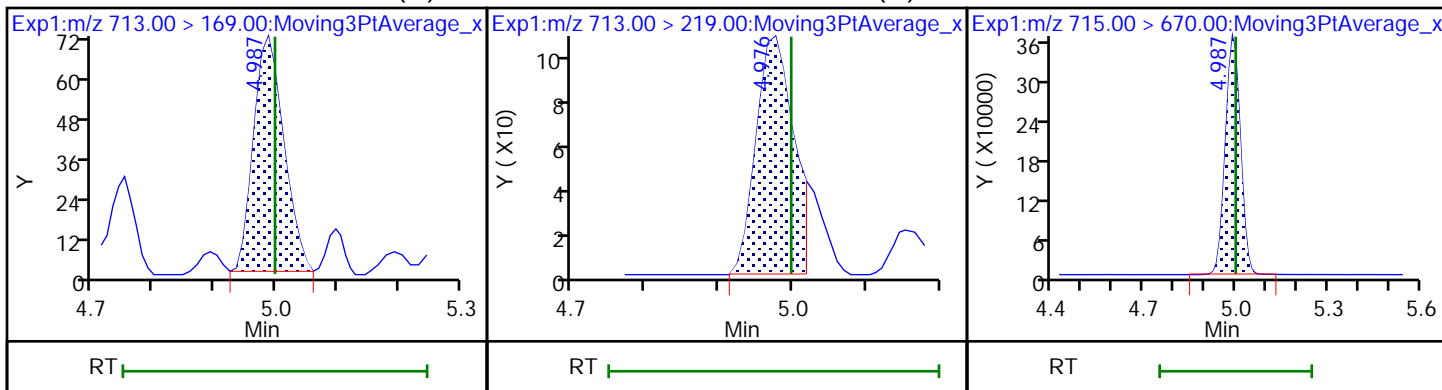
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (ND)



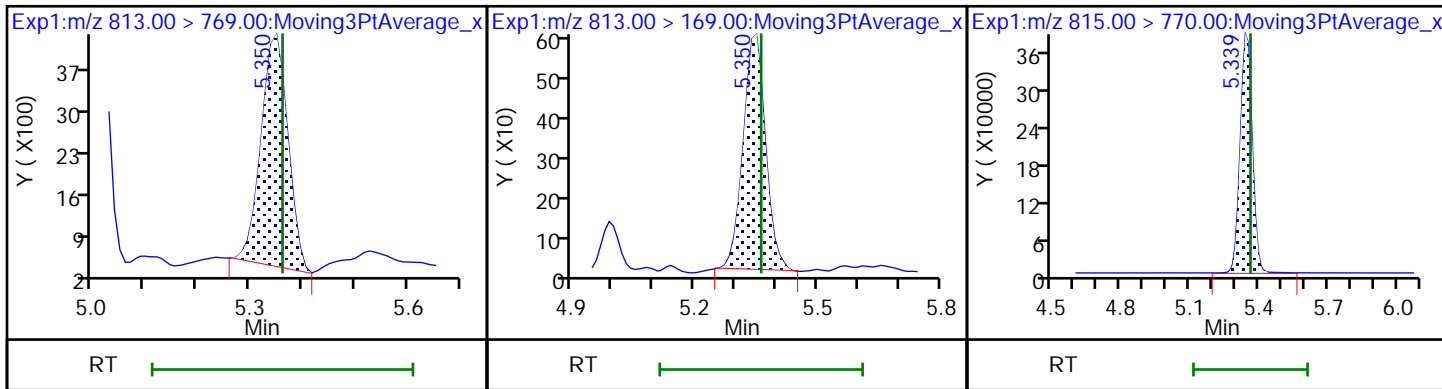
75 Perfluorododecanesulfonic acid (ND) 41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M) 42 Perfluorotetradecanoic acid (M)

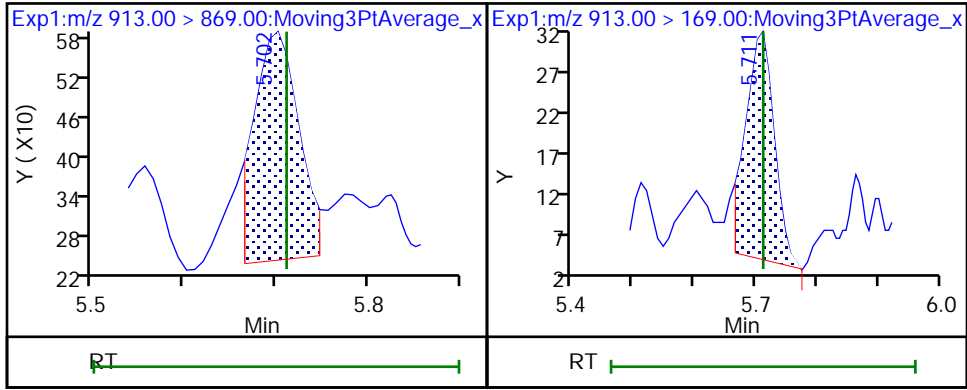


45 Perfluorohexadecanoic acid 45 Perfluorohexadecanoic acid D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

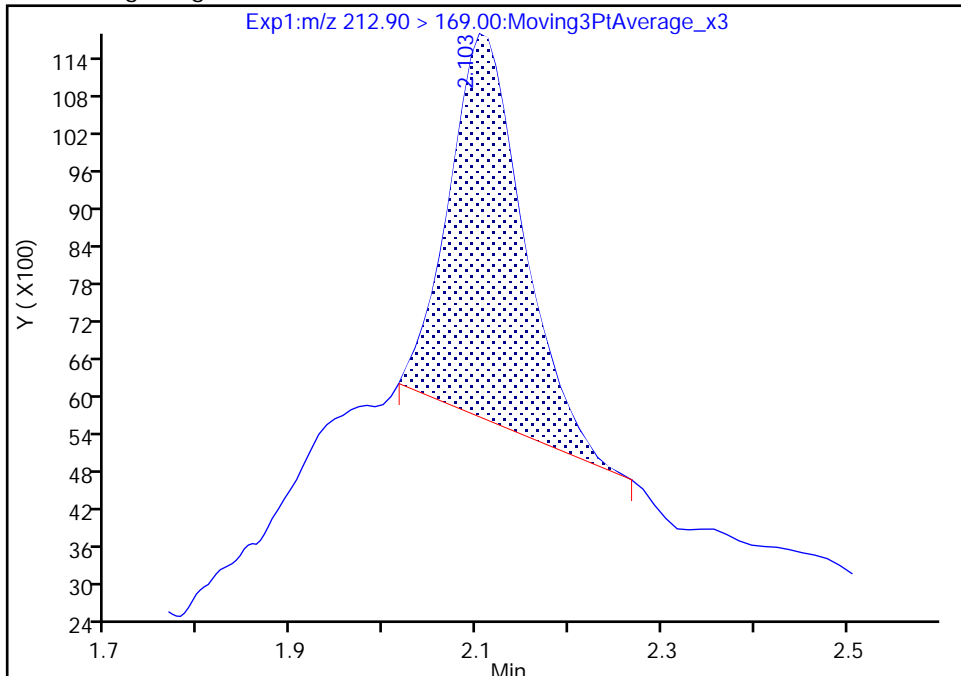
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

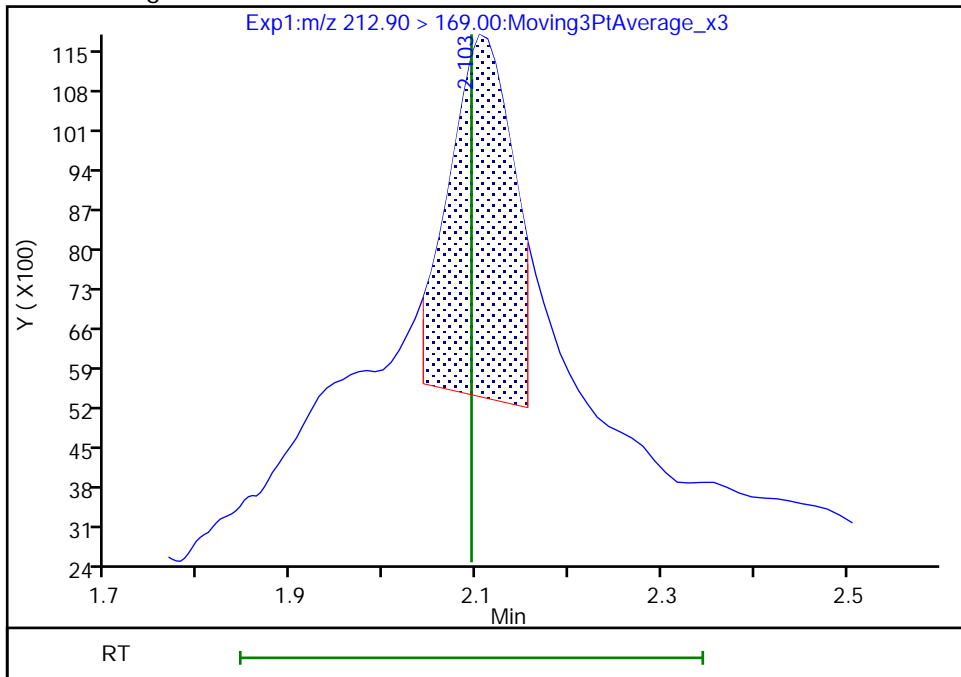
RT: 2.10
Area: 34429
Amount: -0.017569
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 30383
Amount: -0.020604
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 09:48:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

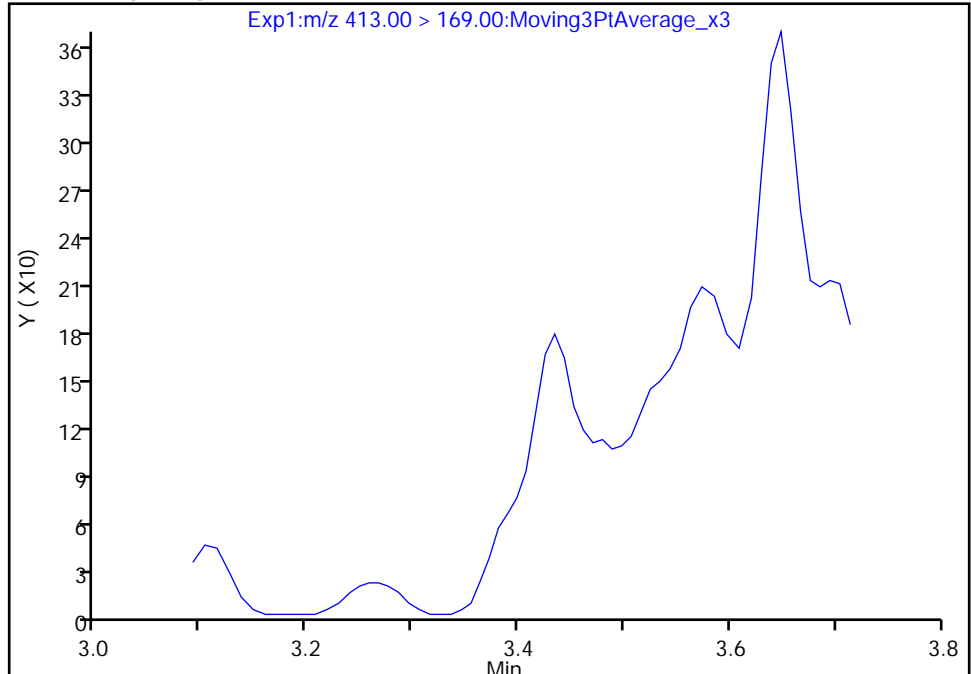
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

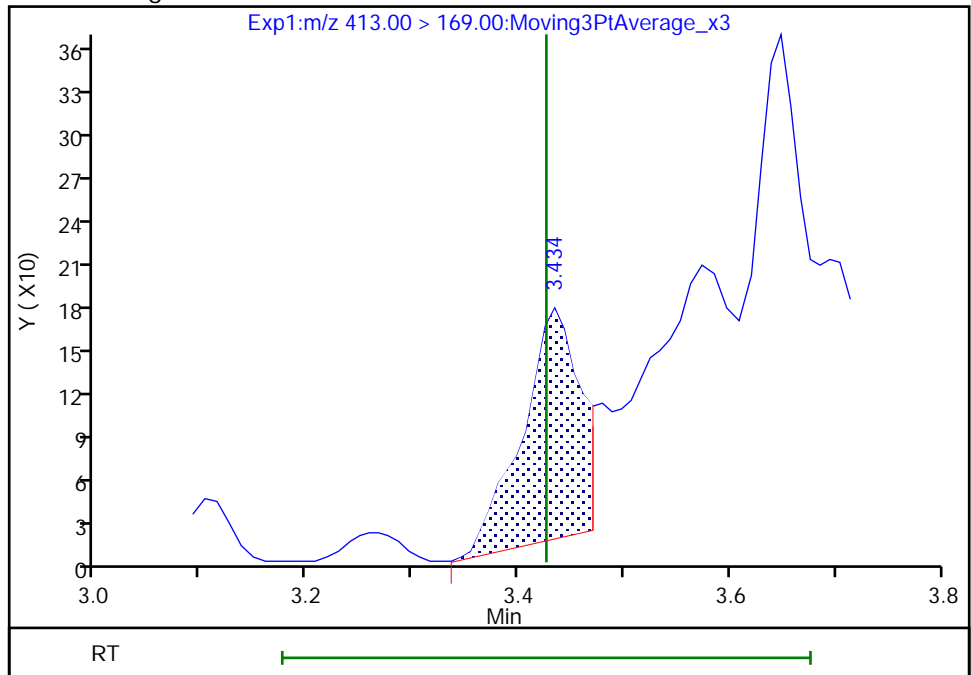
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 608
Amount: 0.003746
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 09:56:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

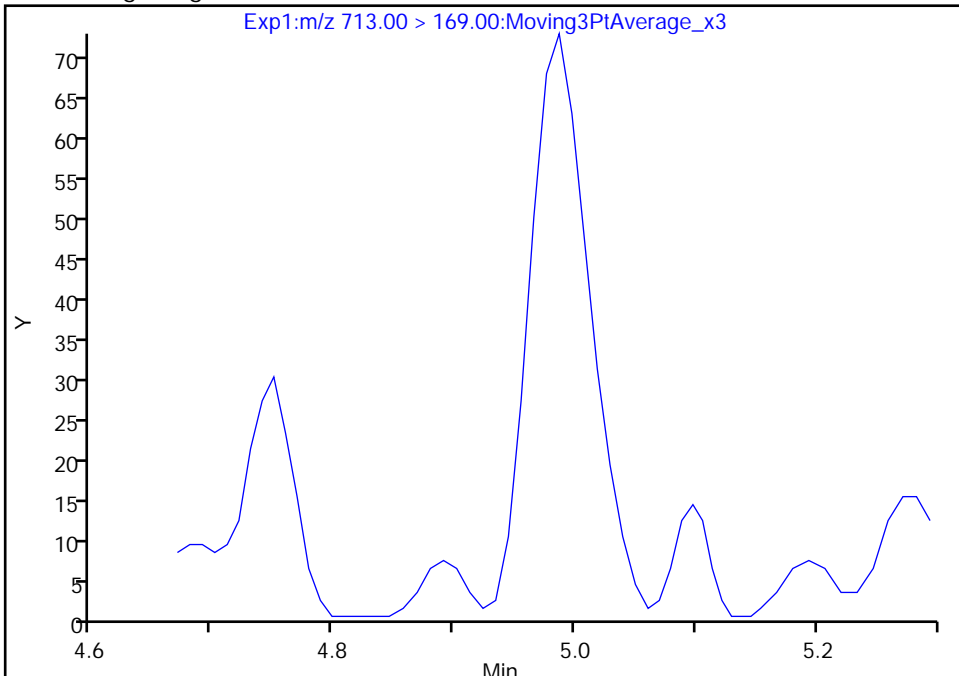
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

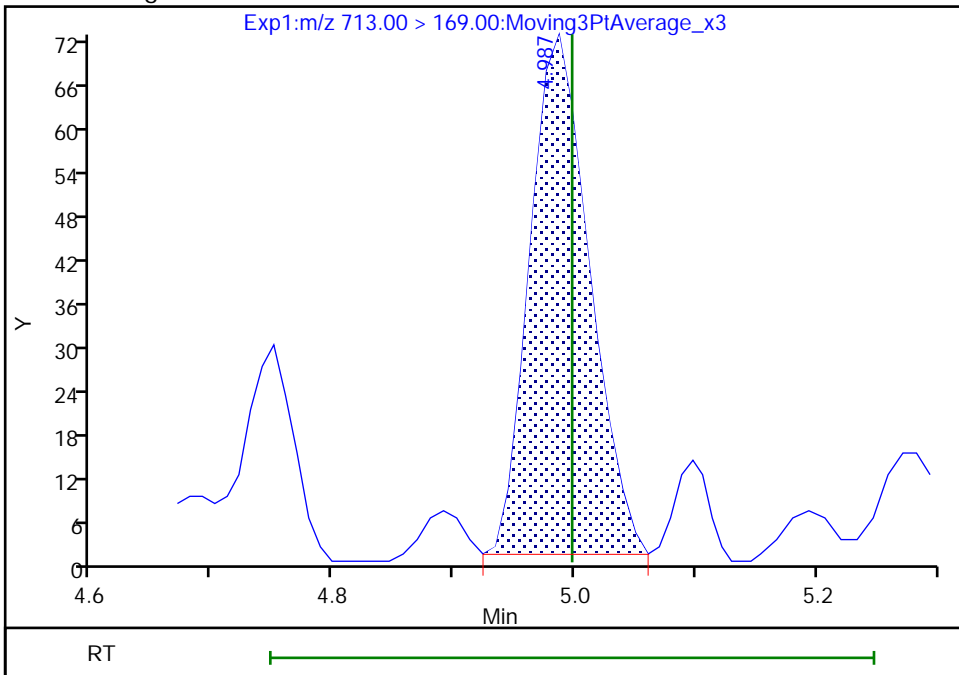
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 247
Amount: 0.001993
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 09:59:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

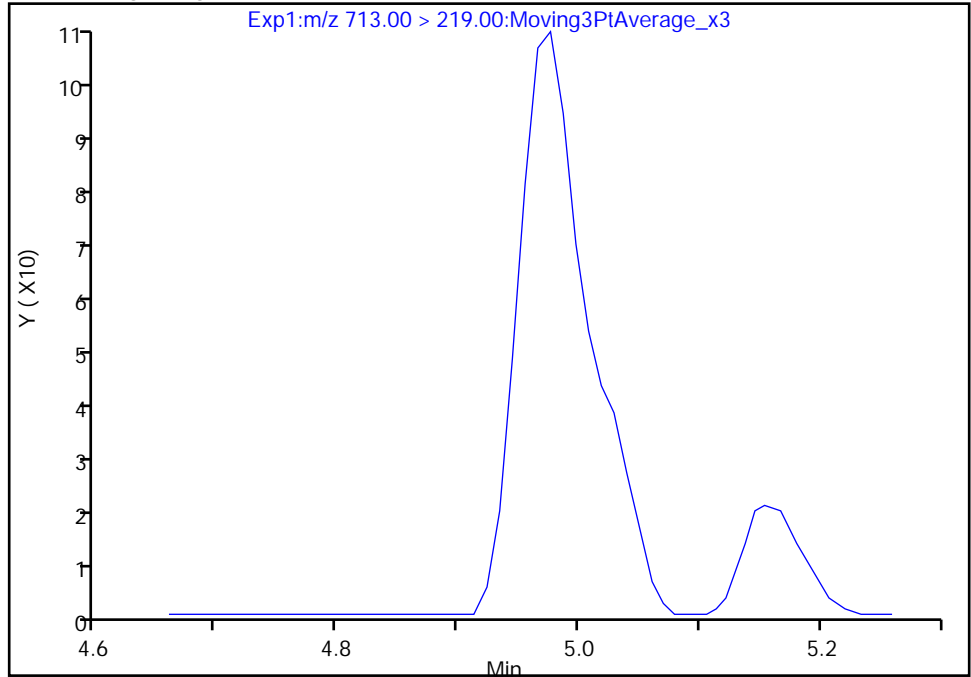
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

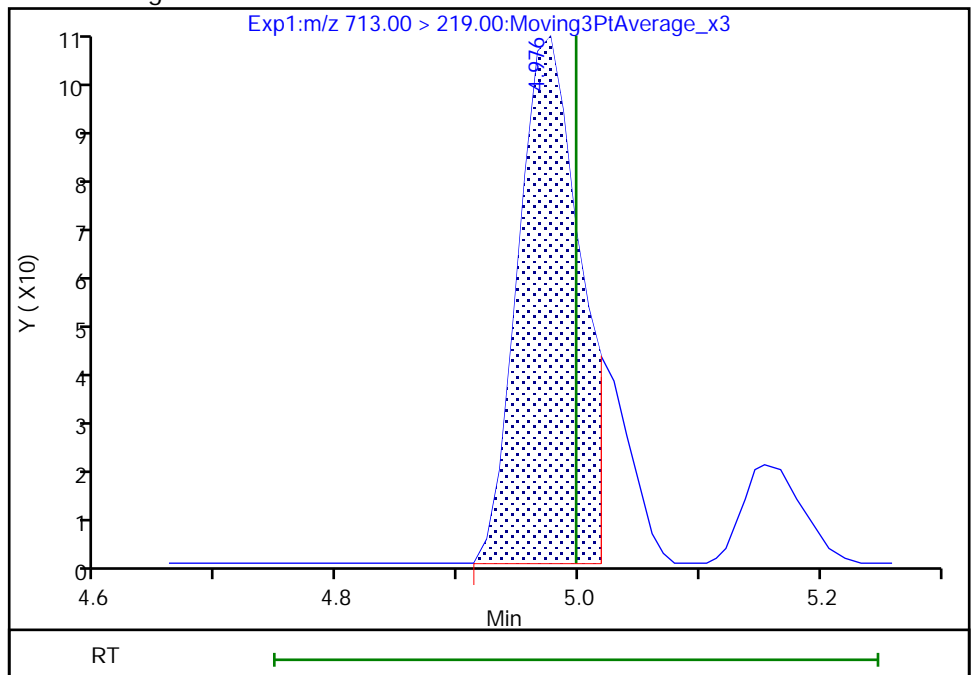
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 374
Amount: 0.001993
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 09:59:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

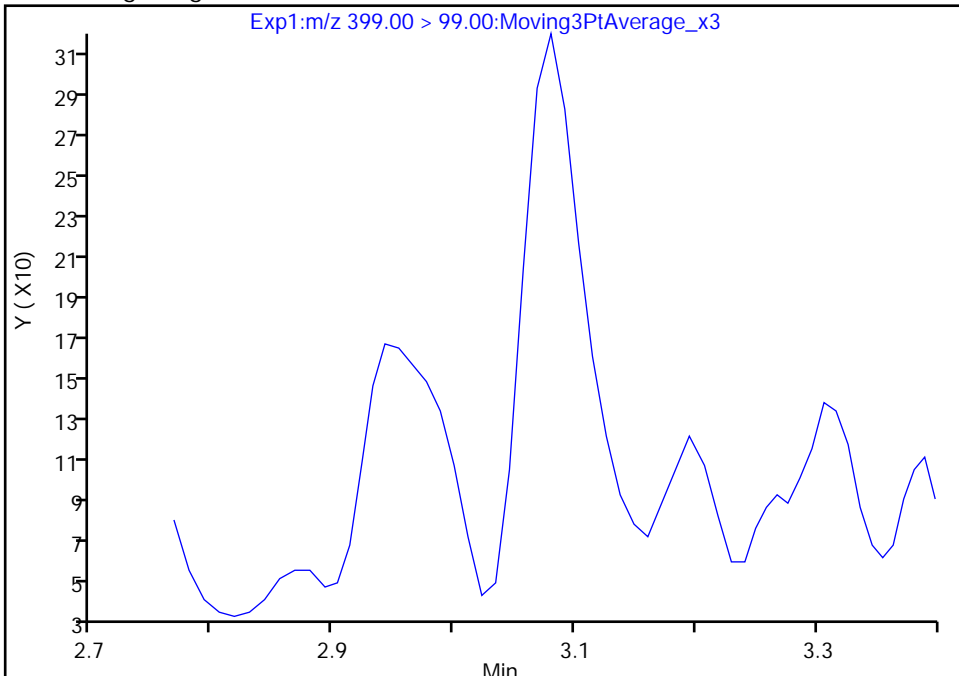
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

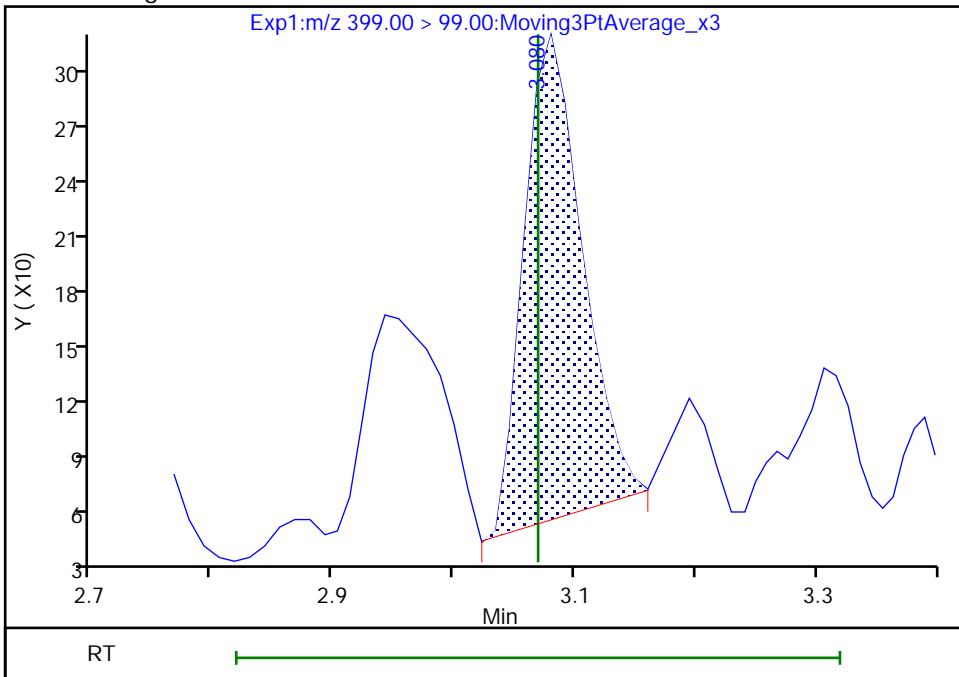
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 859
Amount: 0.004200
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 09:55:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 734 of 950

Eurofins Burlington

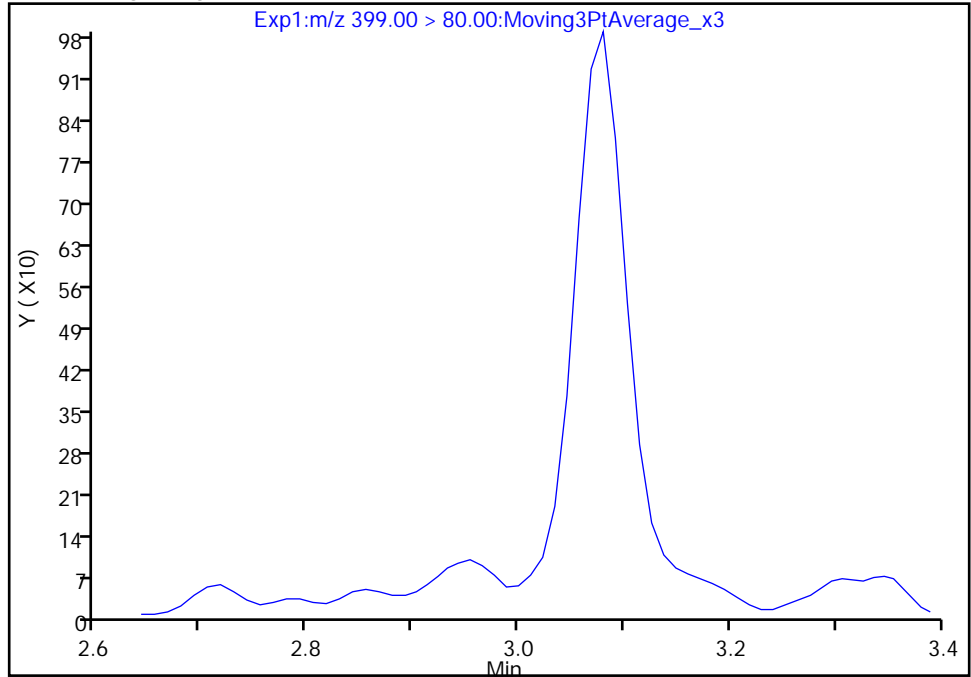
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

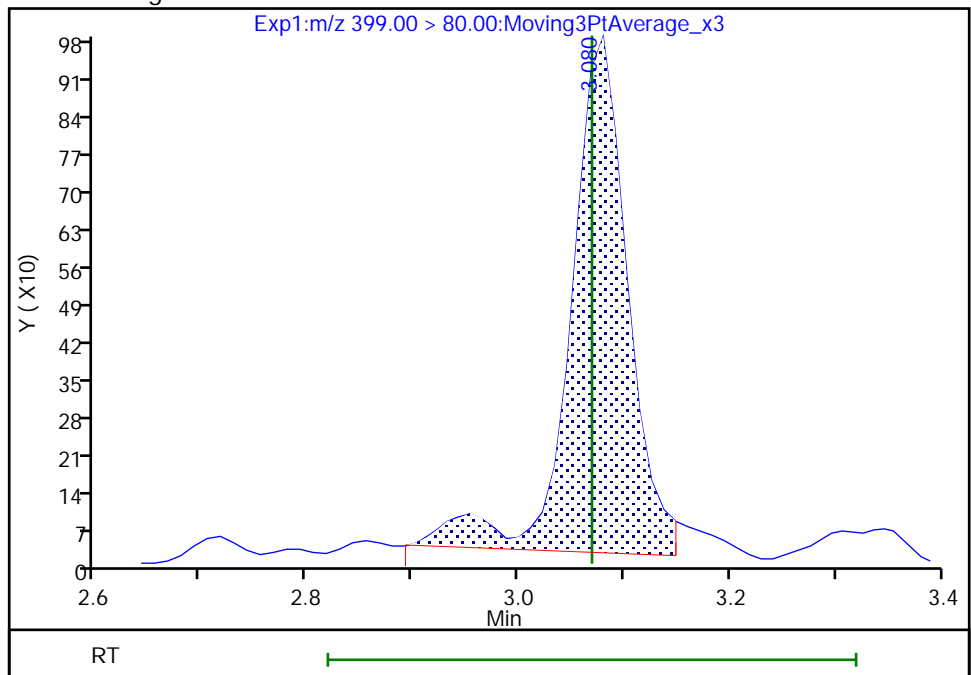
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 3641
Amount: 0.004200
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 09:55:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

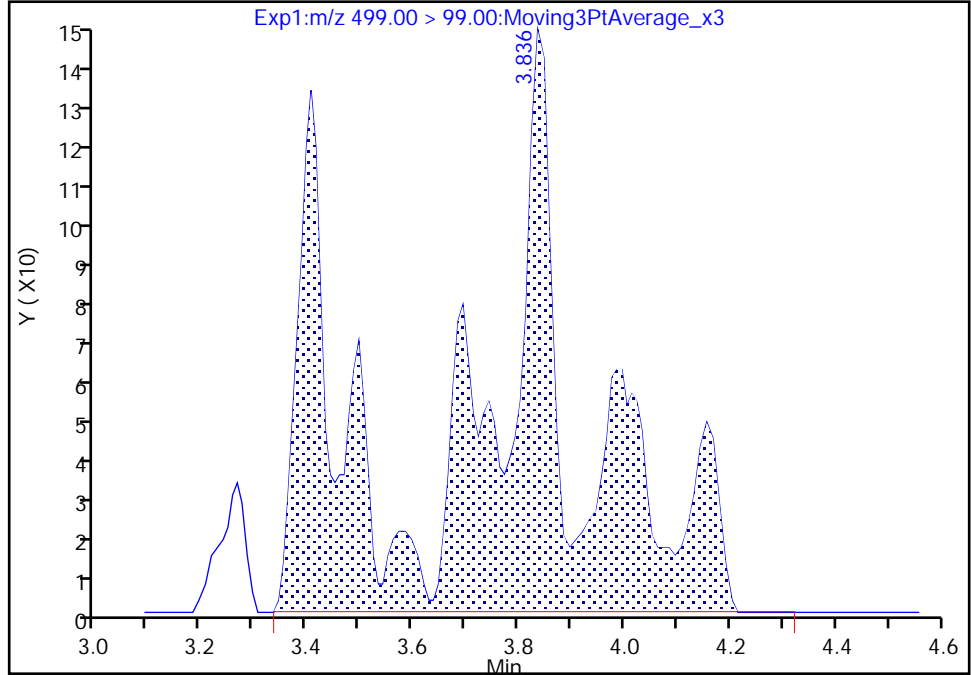
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

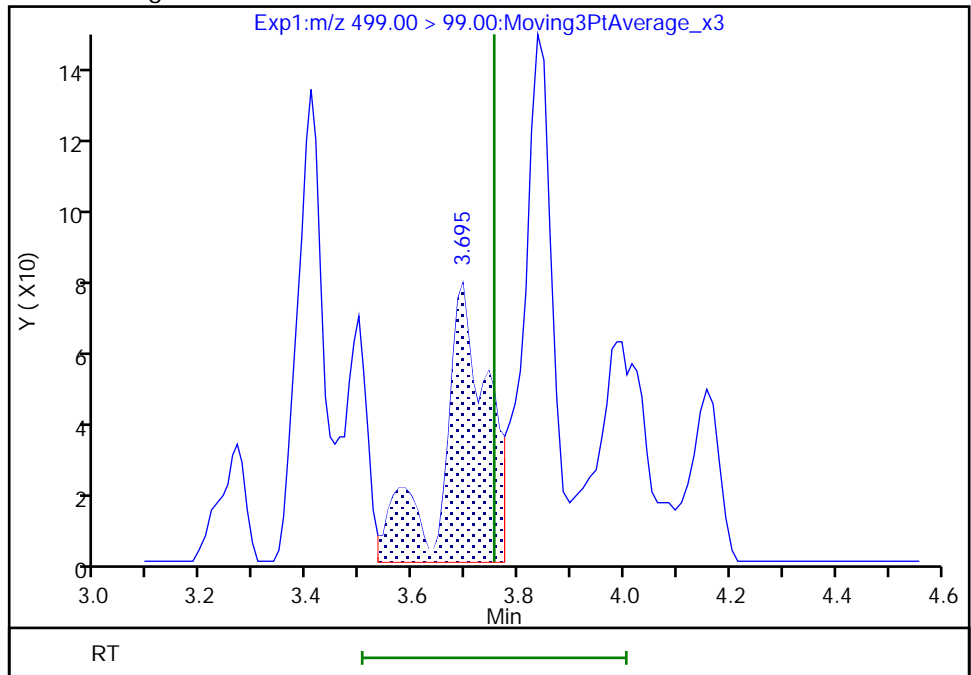
RT: 3.84
Area: 2157
Amount: 0.013920
Amount Units: ng/ml

Processing Integration Results



RT: 3.69
Area: 440
Amount: 0.002182
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 09:56:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

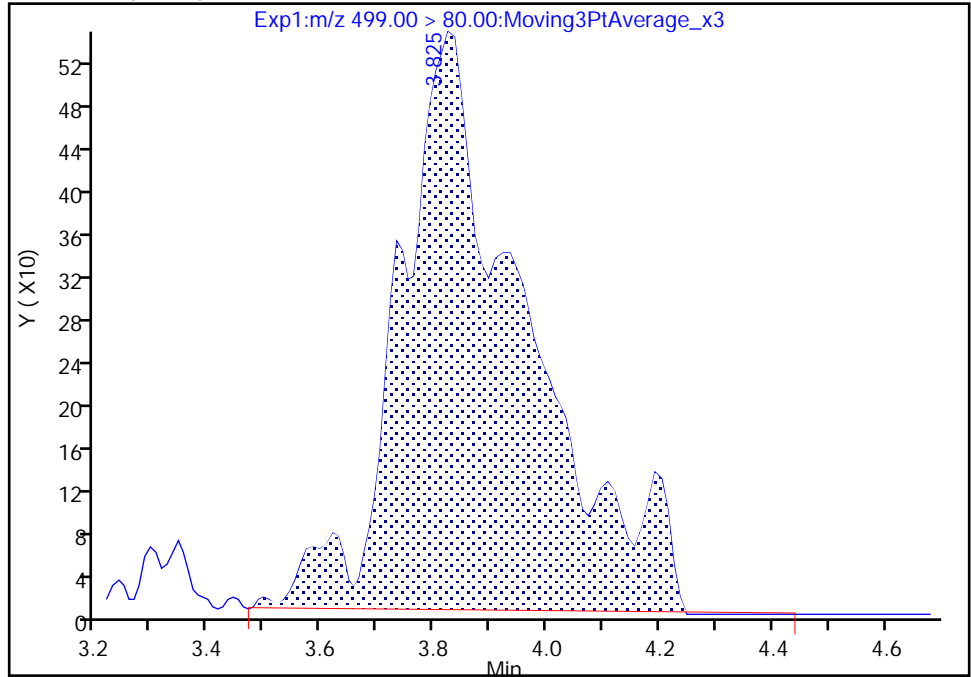
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

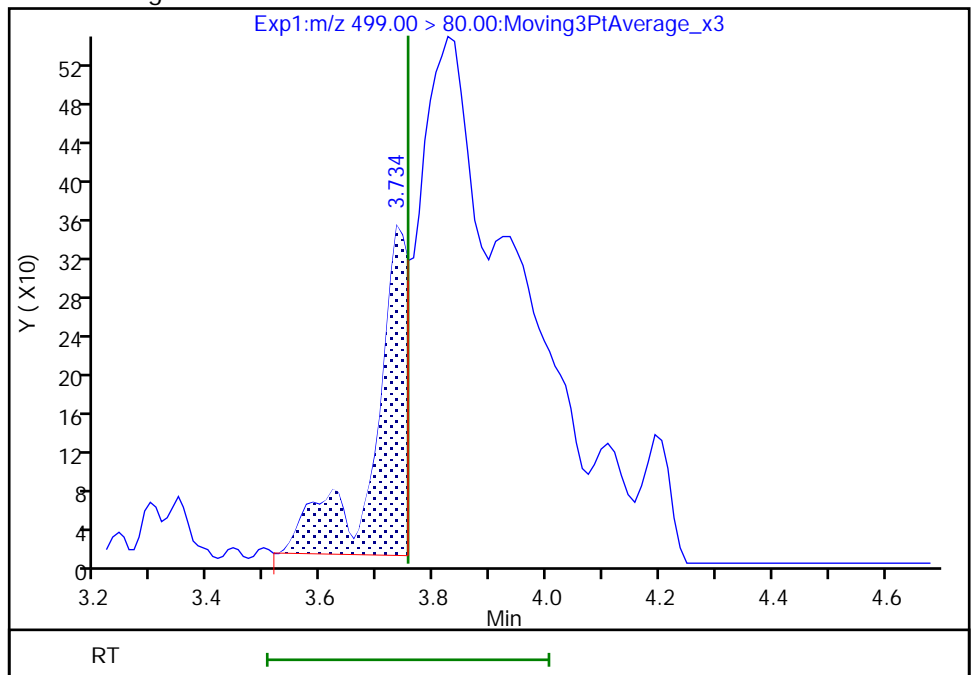
RT: 3.82
Area: 8580
Amount: 0.013920
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 1345
Amount: 0.002182
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 09:57:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

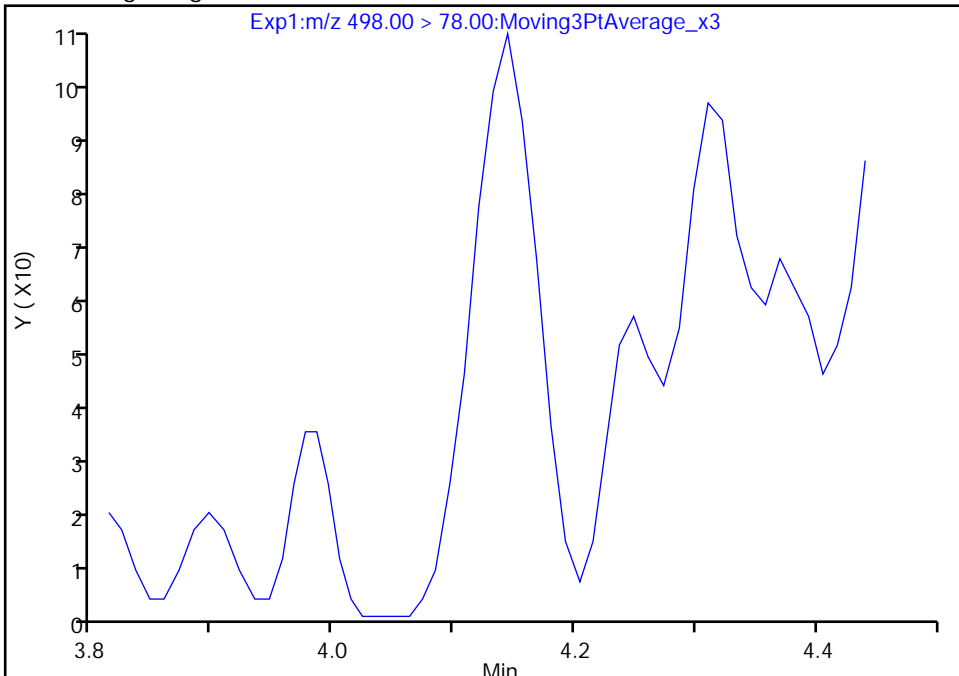
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

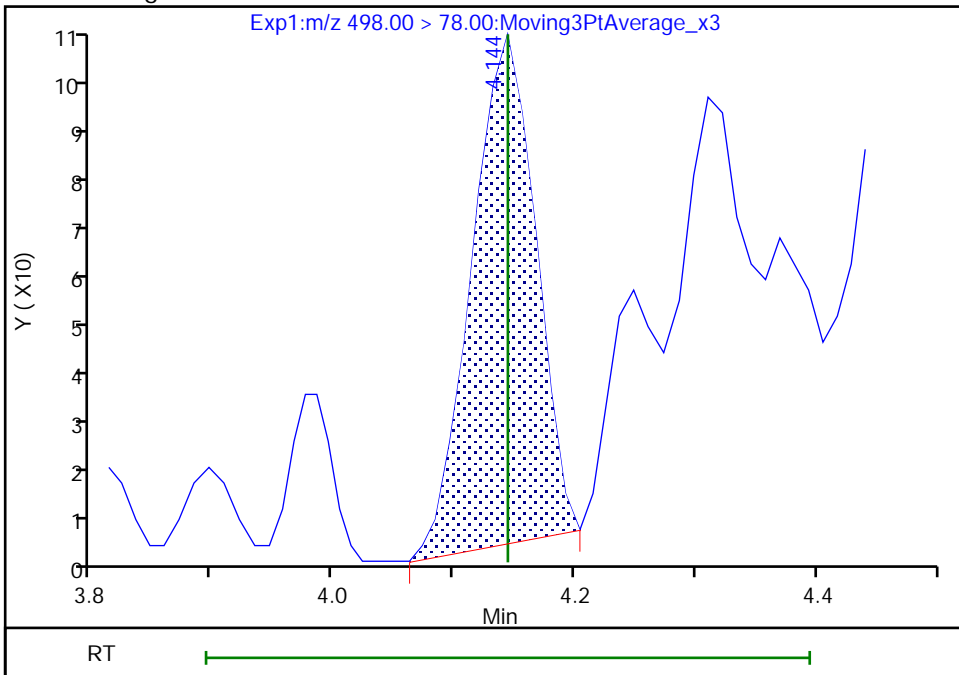
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 358
Amount: 0.000389
Amount Units: ng/ml



Reviewer: khanphomeea, 24-Jan-2023 09:58:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

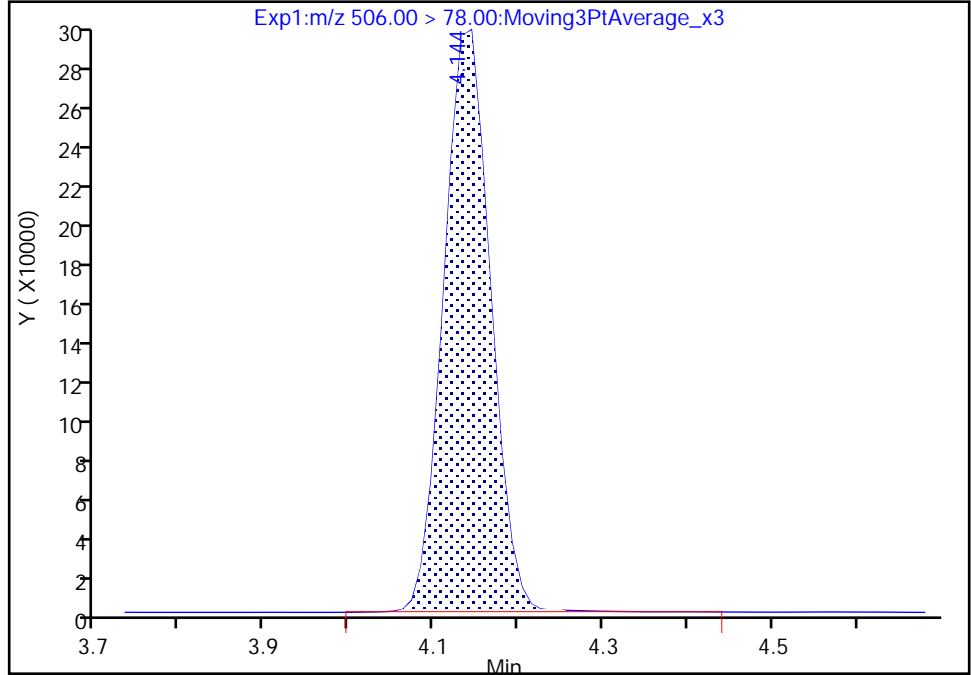
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056
Signal: 1

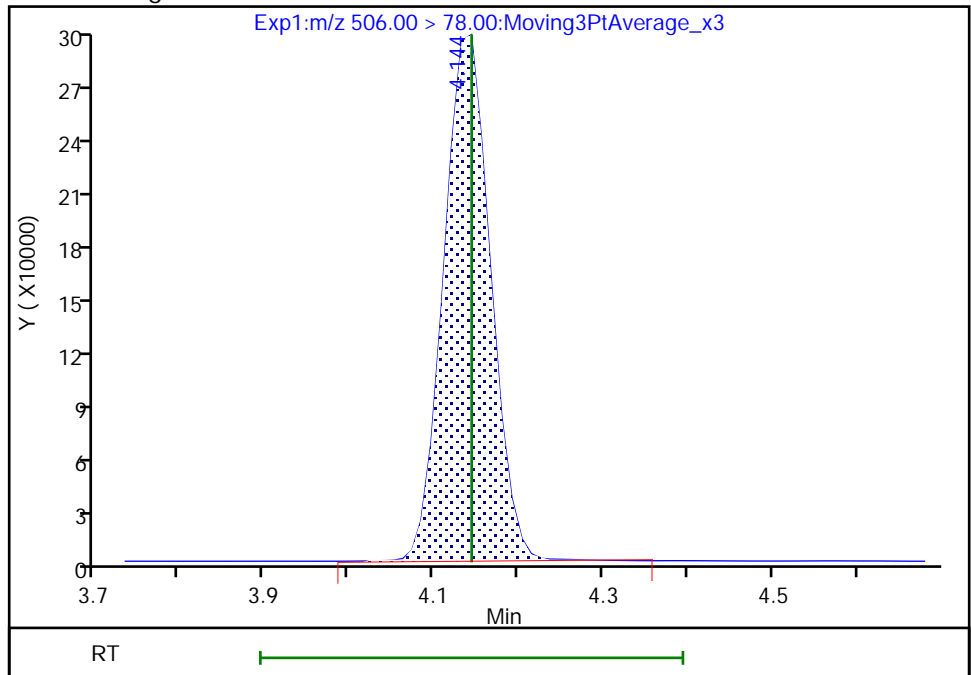
RT: 4.14
Area: 1144857
Amount: 1.209958
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 1143115
Amount: 1.208117
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 09:47:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

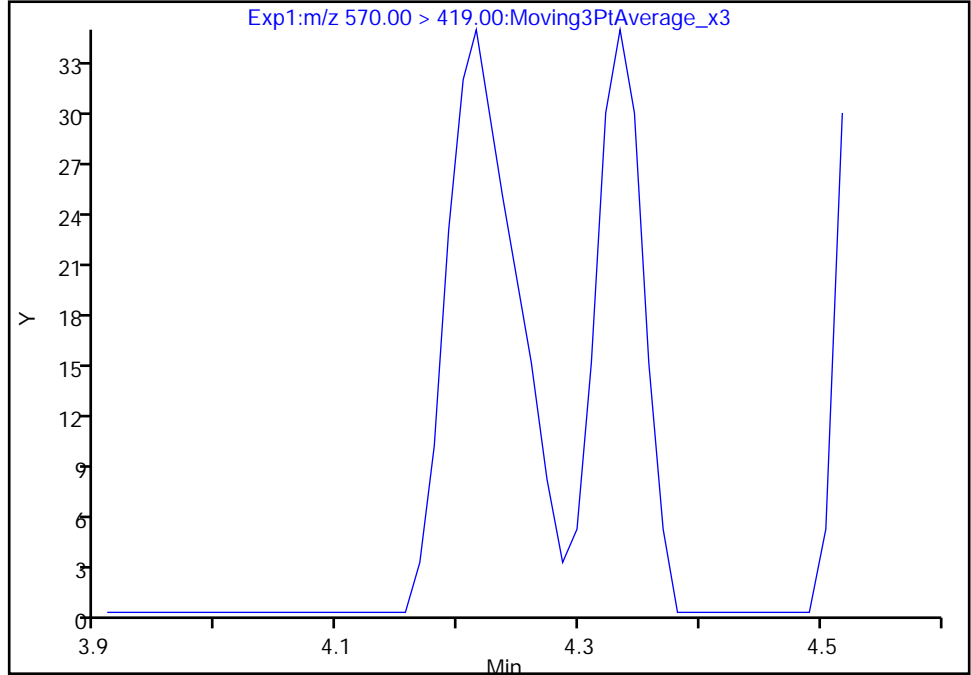
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

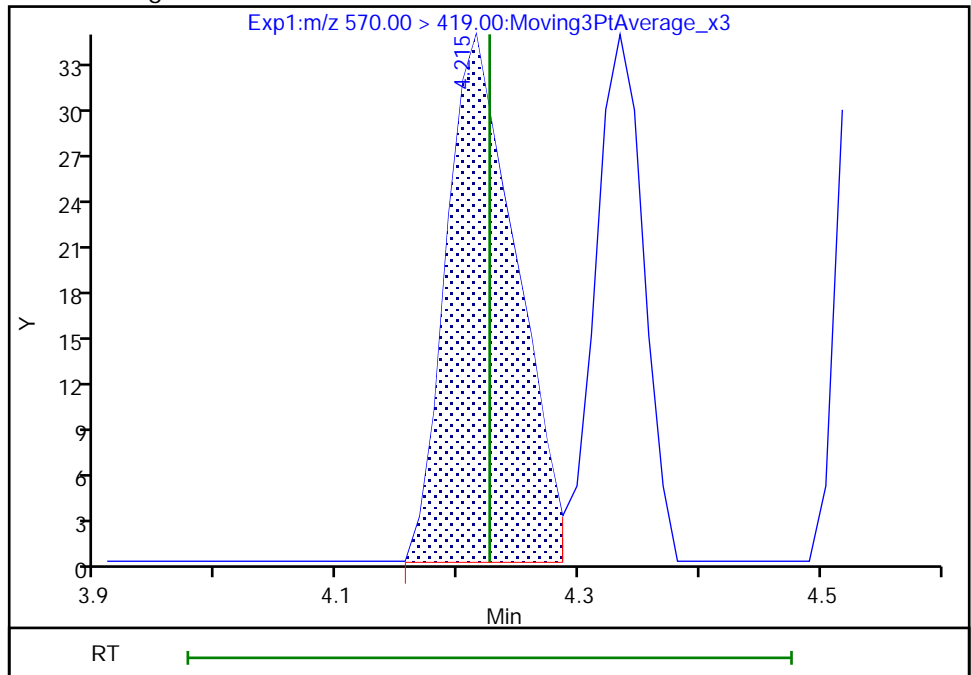
Signal: 1

Not Detected
Expected RT: 4.23

Processing Integration Results



Manual Integration Results



RT: 4.21
Area: 140
Amount: 0.000619
Amount Units: ng/ml

Reviewer: khanphomeea, 24-Jan-2023 09:58:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

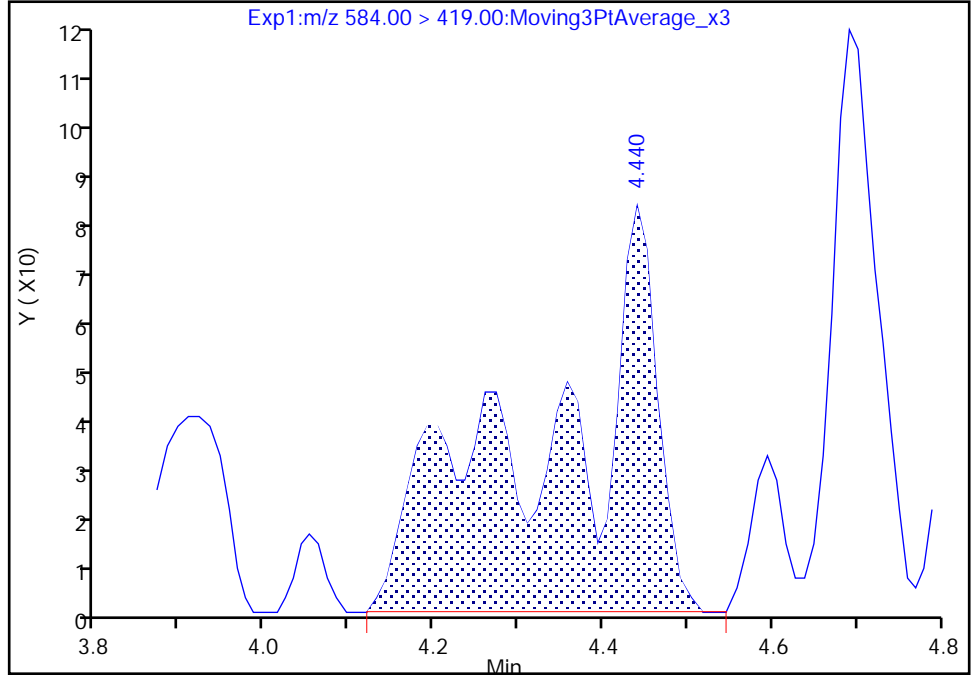
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

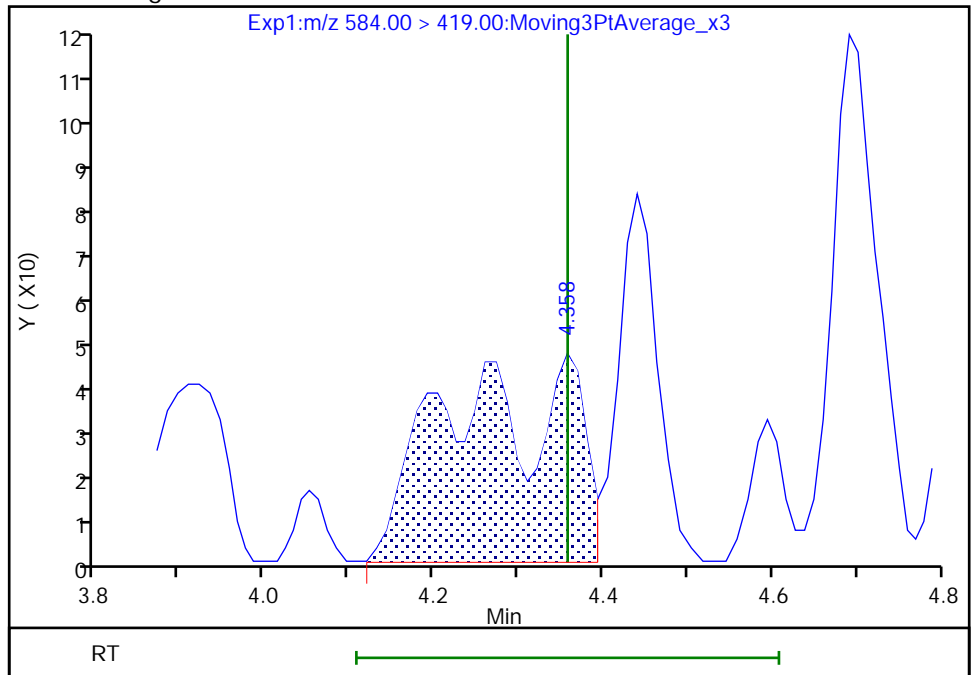
RT: 4.44
Area: 742
Amount: 0.002857
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 475
Amount: 0.001829
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 09:58:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

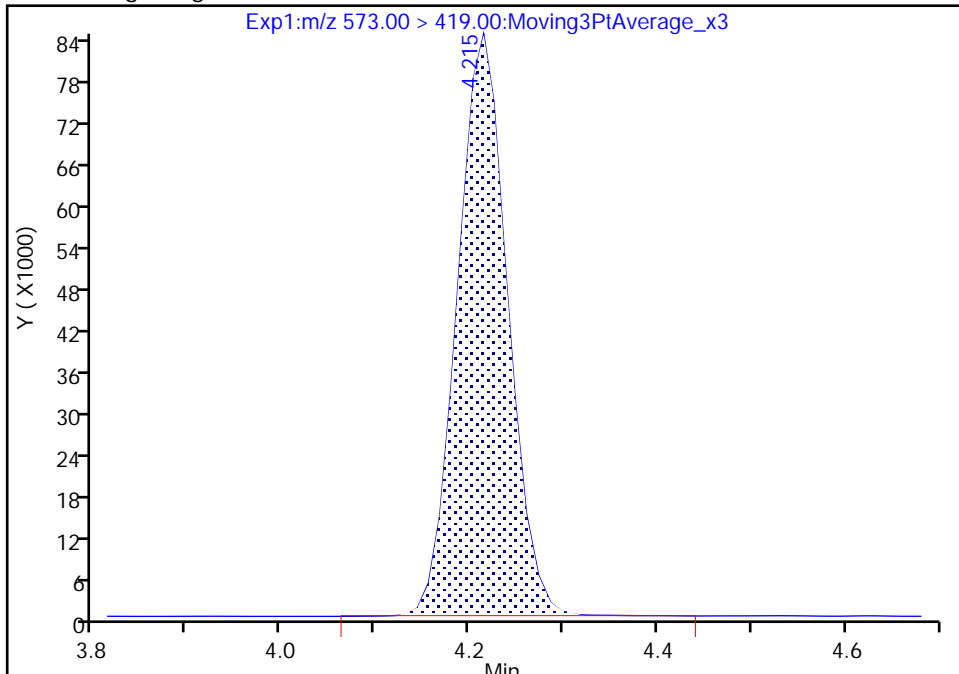
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Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

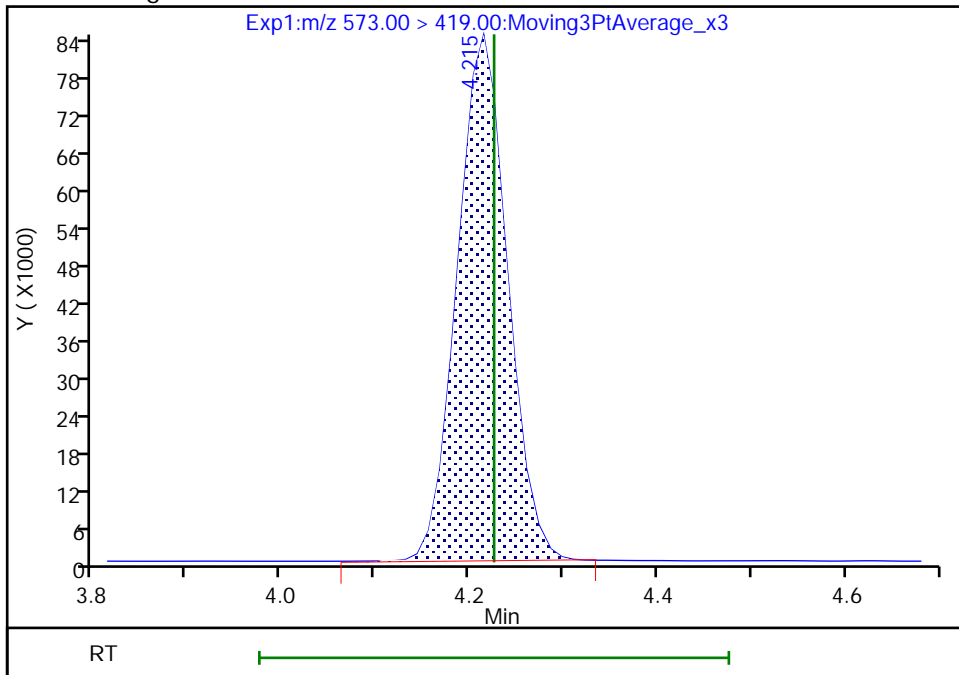
RT: 4.21
Area: 313868
Amount: 1.371322
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 313473
Amount: 1.369596
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 09:48:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

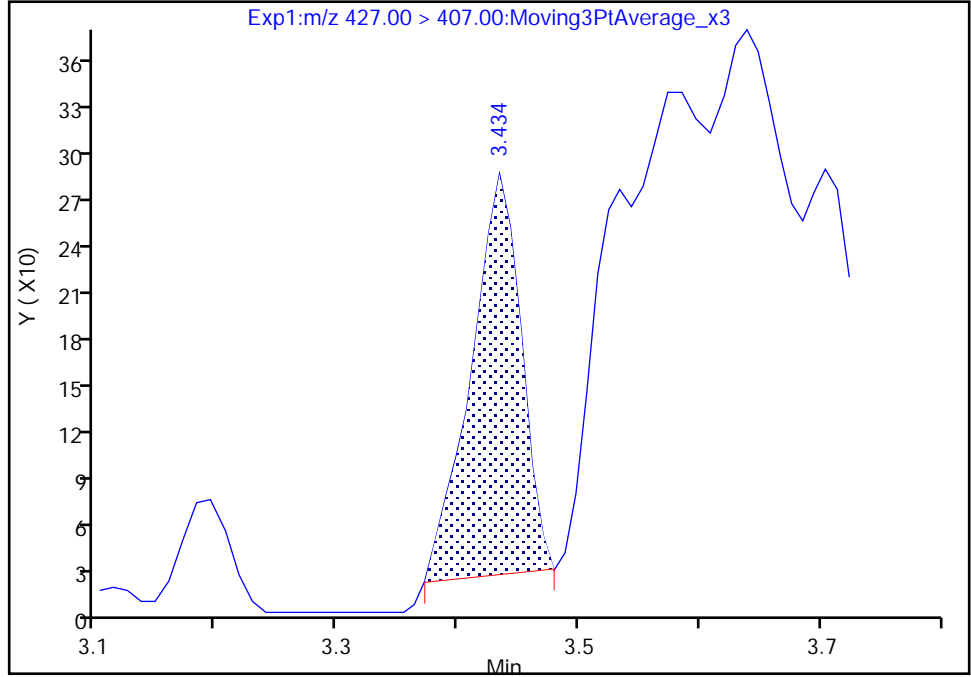
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54082.b\PA230123A04.d
Injection Date: 23-Jan-2023 17:54:30 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

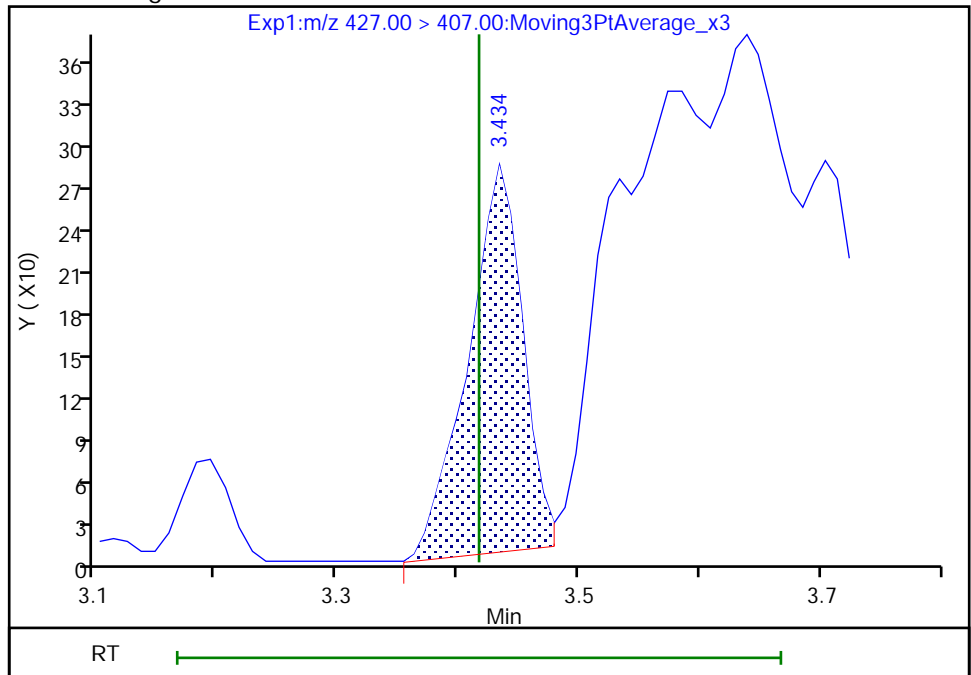
RT: 3.43
Area: 737
Amount: 0.002224
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 855
Amount: 0.002580
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 09:56:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187884/4
 Matrix: Solid Lab File ID: PA230126A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/26/2023 20:11
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
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.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187884/4
 Matrix: Solid Lab File ID: PA230126A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/26/2023 20:11
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	115		50-150
STL00990	13C4 PFOA	107		50-150
STL00995	13C5 PFNA	108		50-150
STL00992	13C4 PFBA	108		50-150
STL00993	13C2 PFHxA	101		50-150
STL00996	13C2 PFDA	104		50-150
STL00997	13C2 PFUnA	94		50-150
STL00994	18O2 PFHxS	85		50-150
STL00998	13C2 PFDoA	92		50-150
STL00991	13C4 PFOS	98		50-150
STL01056	13C8 FOSA	92		50-150
STL01893	13C5 PFPeA	100		50-150
STL02116	13C2 PFTeDA	113		50-150
STL02118	d3-NMeFOSAA	122		50-150
STL02117	d5-NEtFOSAA	117		50-150
STL02279	M2-6:2 FTS	103		50-150
STL02337	13C3 PFBS	96		50-150
STL02280	M2-8:2 FTS	109		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 26-Jan-2023 20:11:01 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0054135-004 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:38:46 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:10:37
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	2061884	1.35	108	29758	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.094	0.008	1.008	5154	-0.0401		0.8		M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1532064	1.24	99.6	10293	
D 47 13C3 PFBS	301.90 > 80.00	2.410	2.384	0.026	0.700	1500839	1.11	95.6	213685	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.410	2.384	0.026	1.000	1451	0.001049	Target=2.10	4.2		M
298.90 > 99.00	2.410	2.384	0.026	1.000	815		1.78(1.05-3.15)	1.1		M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.692	2.669	0.023	1.000	67	0.000210		1.9		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	125718	1.15	98.6	321	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1607966	1.26	101	4287	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.842	2.806	0.036	1.004	109	0.000561		2.0		M
D 64 13C3 HFPO-DA	287.00 > 169.00	2.830	2.806	0.024	0.822	243064	1.10	87.8	2686	
D 11 18O2 PFHxS	403.00 > 84.00	3.091	3.069	0.022	0.898	985206	1.00	84.8	6104	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.091	3.069	0.022	1.000	4110	0.004494	Target=3.18	24.0		M
399.00 > 99.00	3.091	3.069	0.022	1.000	1546		2.66(1.59-4.77)	6.6		M
D 9 13C4 PFHpA	367.00 > 322.00	3.091	3.069	0.022	0.898	1833695	1.43	115	4932	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
77 DONA										M
377.00 > 251.00	3.137	3.104	0.033	0.834	1240	0.000371	Target=2.96	1.6		M
377.00 > 85.00	3.137	3.104	0.033	0.834	410		3.02(1.48-4.44)	1.5		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	189478	1.22		103	1325	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	508	0.001390		1.0		
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1807715	1.33		107	9753	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1655117	1.25			7611	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.461	3.426	0.035	1.005	9116	0.005792	Target=2.71	0.5		RM
413.00 > 169.00	3.443	3.426	0.017	1.000	695		13.12(1.36-4.07)	2.1		M
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	696845	1.17		97.6	4870	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.763	3.754	0.009	1.000	3722	0.005254	Target=4.23	3.5		RM
499.00 > 99.00	3.703	3.754	-0.051	0.984	447		8.33(2.11-6.34)	3.8		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1778267	1.35		108	9396	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1764062	1.30		104	7134	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.062	4.074	-0.012	0.997	1098	0.000728	Target=11.13	0.4		RM
513.00 > 169.00	4.084	4.074	0.010	1.003	301		3.65(5.56-16.69)	2.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	252783	1.30		109	2218	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.096	4.085	0.011	1.003	144	0.000376		2.4		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.155	4.144	0.011	1.003	521	0.000511		2.3		M
D 21 13C8 FOSA										
506.00 > 78.00	4.143	4.144	-0.001	1.204	1266650	1.15		92.0	3545	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.225	4.226	-0.001	1.227	406524	1.53		122	2417	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.248	4.226	0.022	1.005	191	0.000651		1.3		M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.310	4.322	-0.012	1.145	135	0.000308	Target=2.45	1.8		RM
599.00 > 99.00	4.286	4.322	-0.036	1.139	184		0.73(1.23-3.68)	2.4		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1374009	1.17		94.0	9250	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.369	4.358	0.011	1.003	613	0.002206		3.8		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	373890	1.46		117	968	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
66 11-Chloroeicosafuoro-3-oxaundec	631.00 > 451.00	4.451	4.452	-0.001	1.183	862	0.000329		4.7	
D 36 13C2 PFDaA	615.00 > 570.00	4.594	4.584	0.010	1.334	1342995	1.14	91.6	10285	
74 1H,1H,2H,2H-perfluorododecanesul	627.00 > 607.00	4.616	4.606	0.010	1.130	35	0.000145		1.4	M
41 Perfluorotridecanoic acid	663.00 > 619.00	4.817	4.799	0.018	1.049	2410	0.002206 Target=6.06		0.3	RM
	663.00 > 169.00	4.808	4.799	0.009	1.047	236	10.21(3.03-9.09)		4.0	M
42 Perfluorotetradecanoic acid	713.00 > 169.00	5.015	4.998	0.017	1.002	205	0.001439 Target=0.83		4.0	M
	713.00 > 219.00	5.004	4.998	0.006	1.000	237	0.86(0.42-1.25)		4.9	M
D 43 13C2 PFTeDA	715.00 > 670.00	5.004	4.998	0.006	1.454	1425938	1.41	113	6567	
45 Perfluorohexadecanoic acid	813.00 > 769.00	5.371	5.362	0.009	1.002	15834	-0.001579 Target=6.74		2.5	
	813.00 > 169.00	5.360	5.362	-0.002	1.000	2322	6.82(3.37-10.11)		37.2	
D 44 13C2 PFHxDA	815.00 > 770.00	5.360	5.362	-0.002	1.557	1526970	1.23	98.8	4569	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d

Injection Date: 26-Jan-2023 20:11:01

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: LC812user

ALS Bottle#: 1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

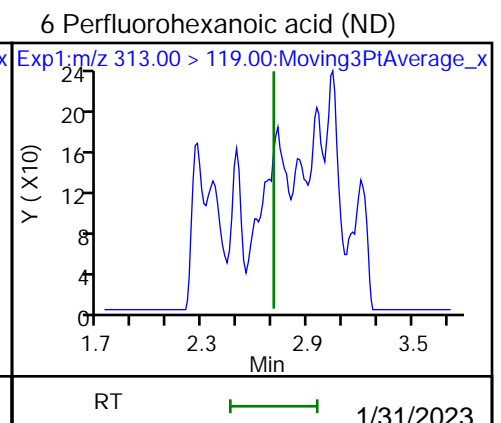
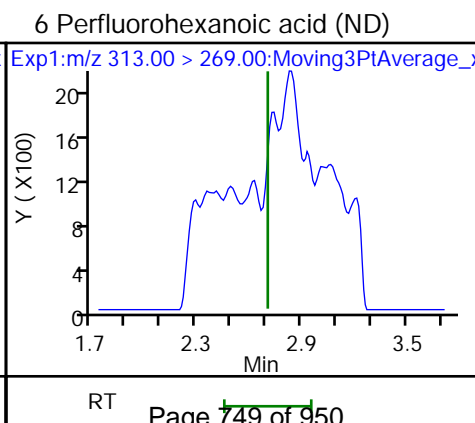
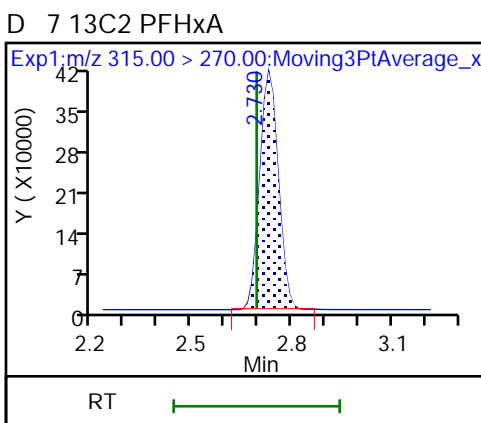
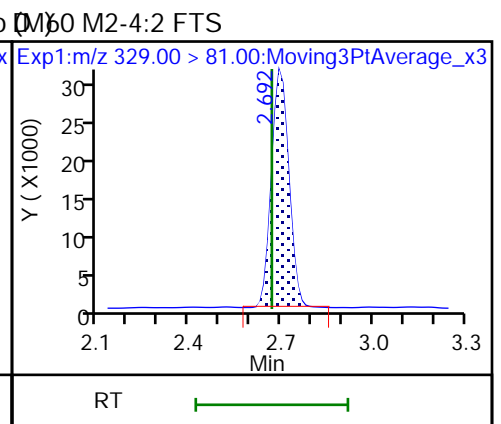
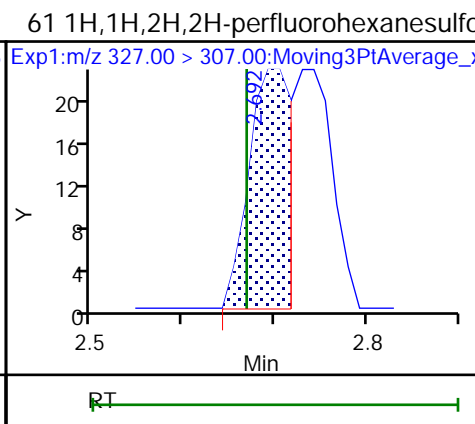
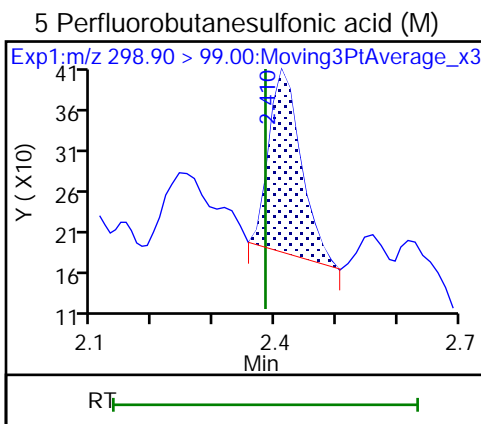
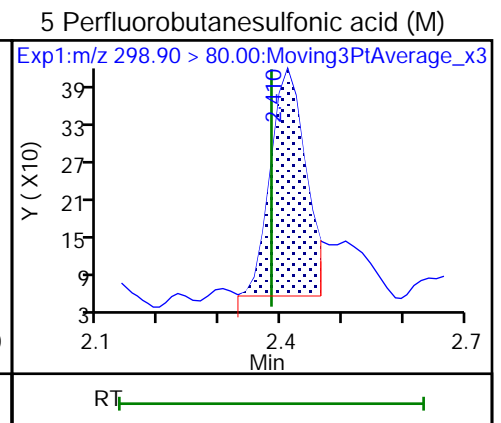
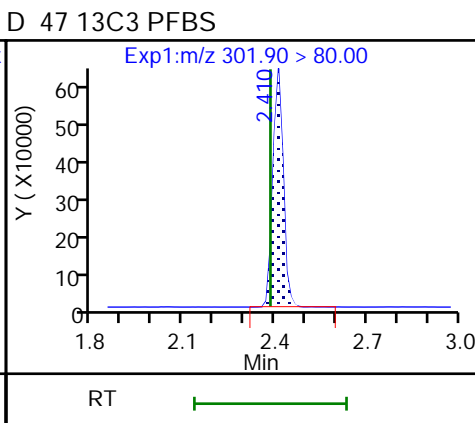
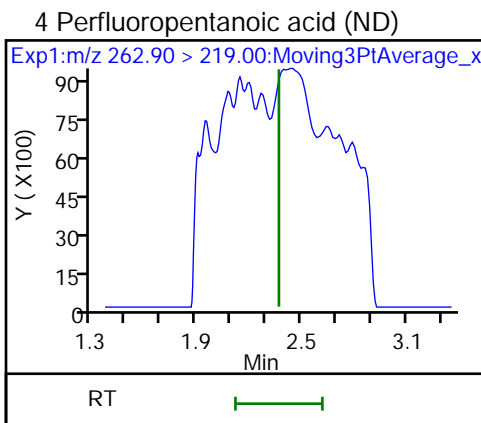
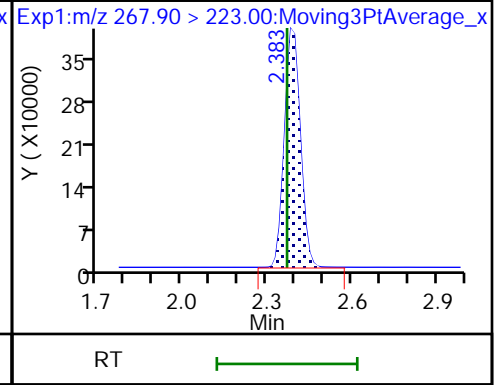
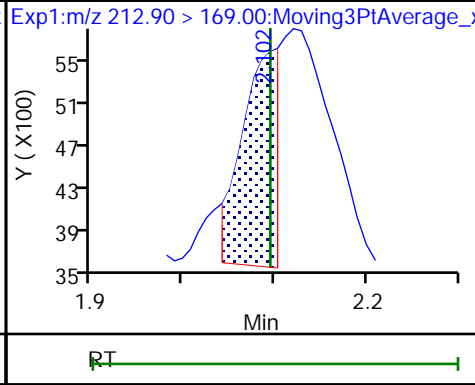
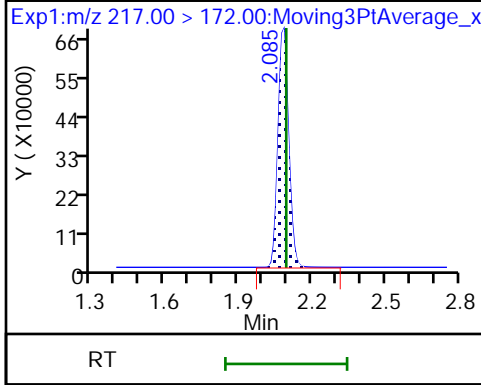
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

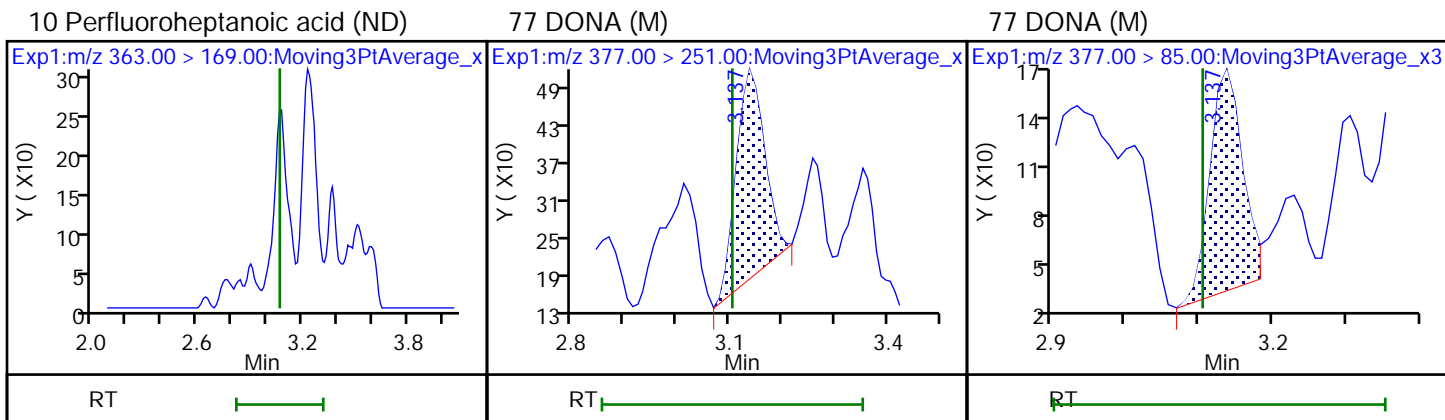
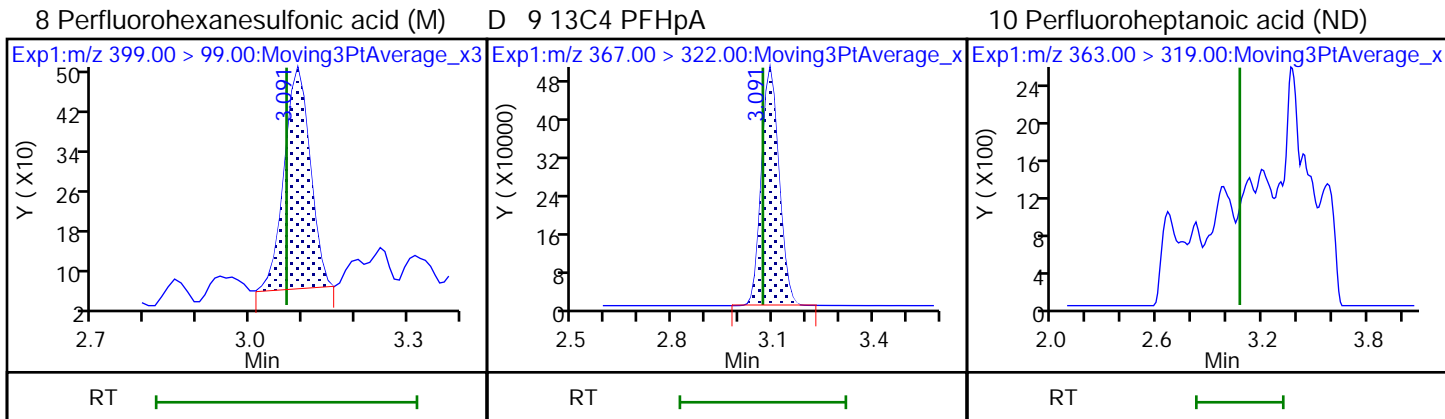
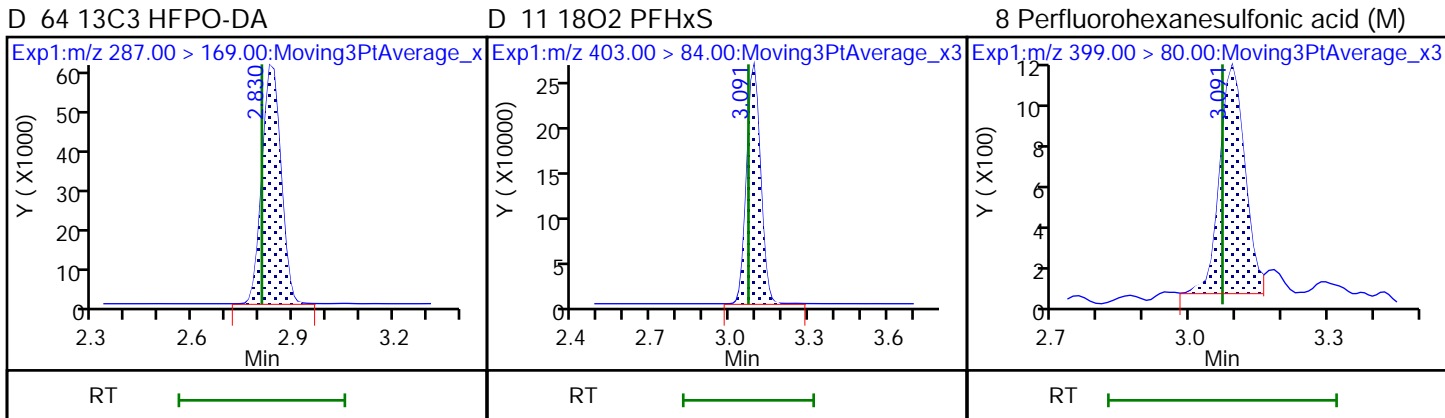
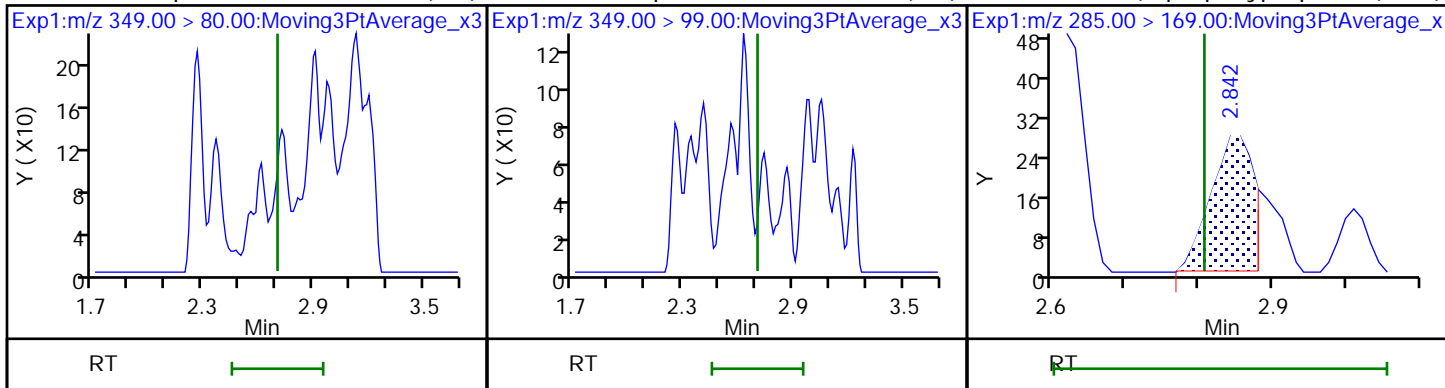
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA



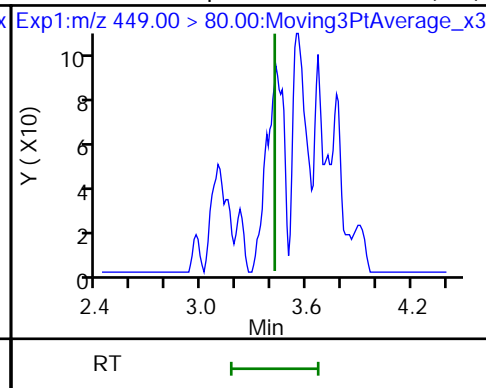
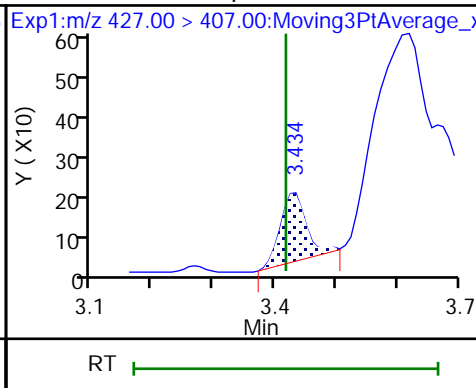
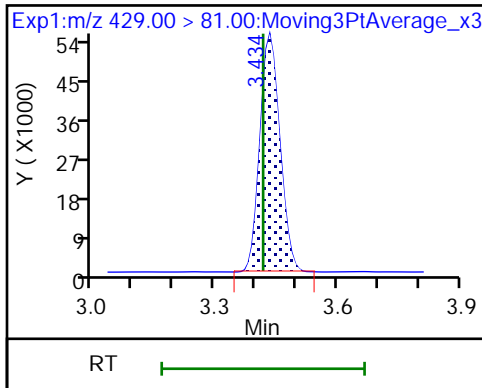
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 12 M2-6:2 FTS

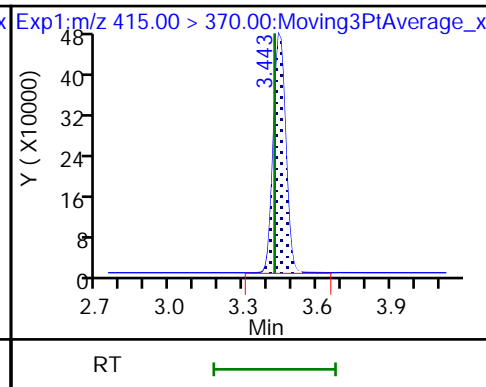
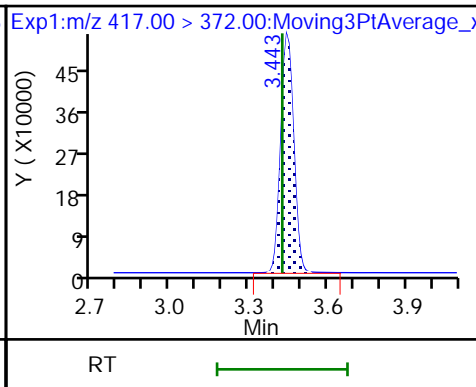
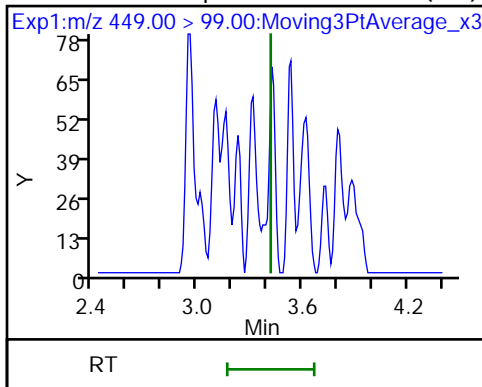
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

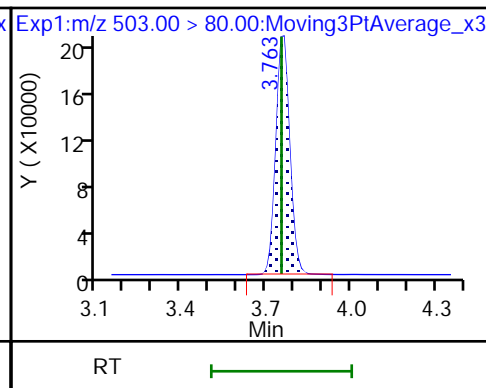
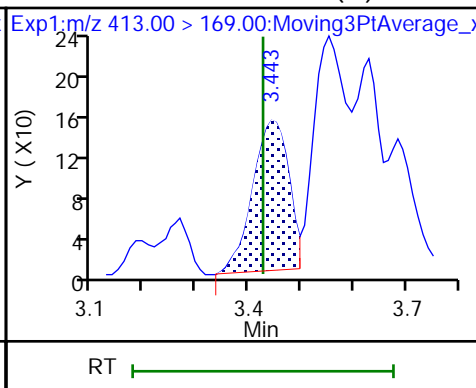
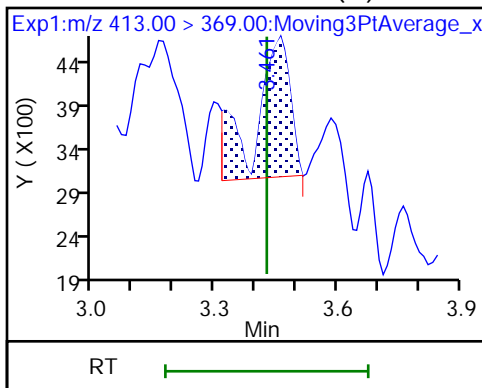
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

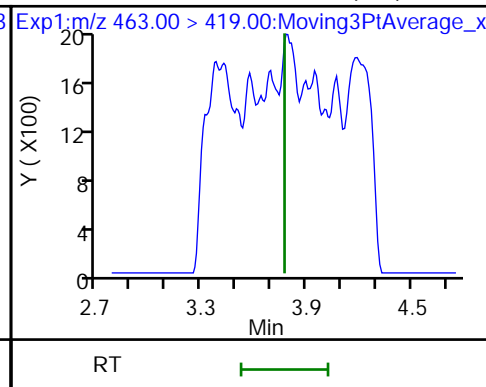
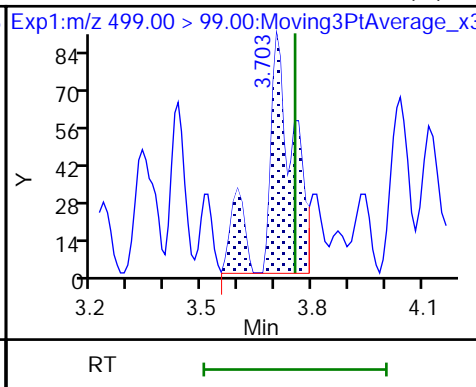
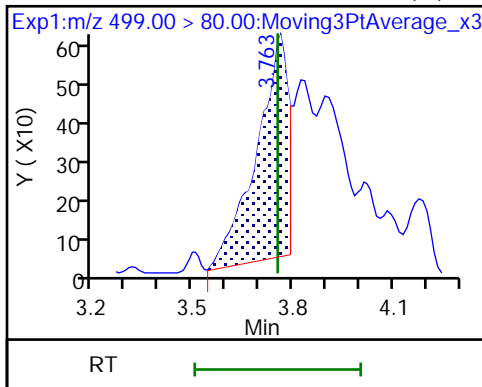
D 18 13C4 PFOS

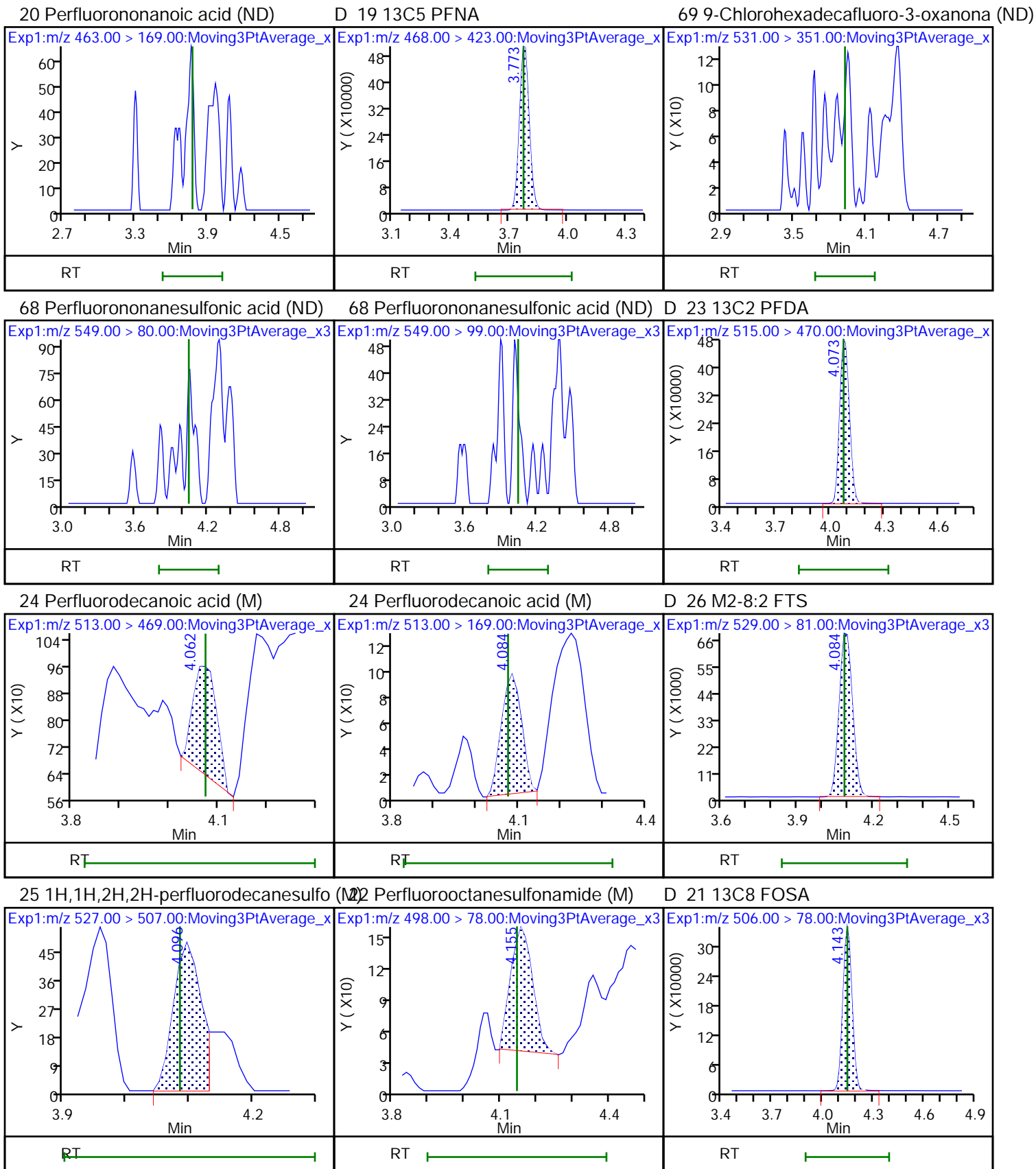


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

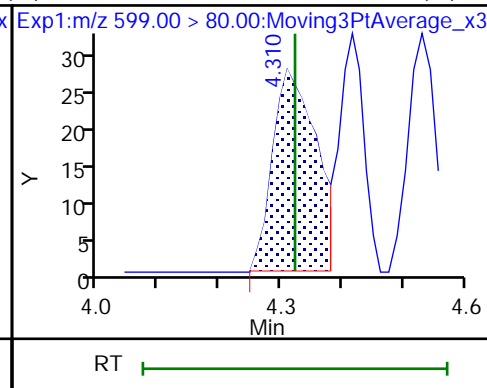
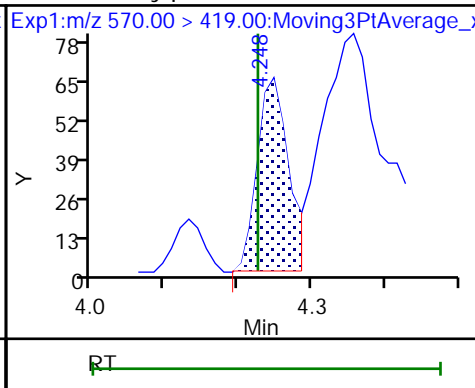
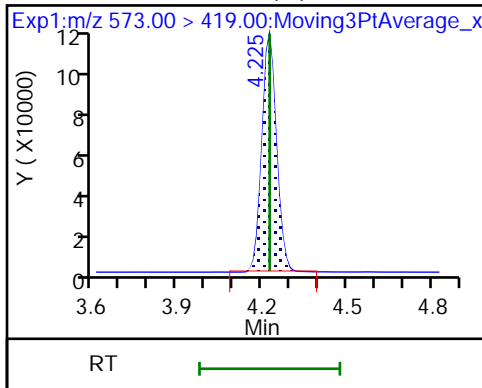




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

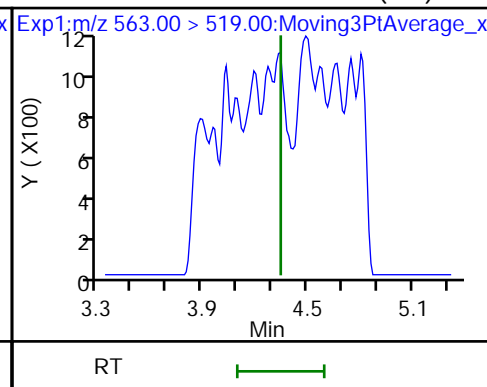
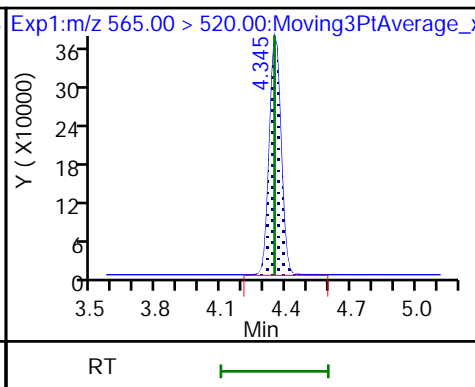
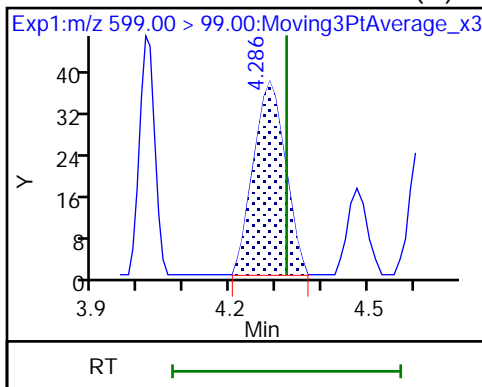
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

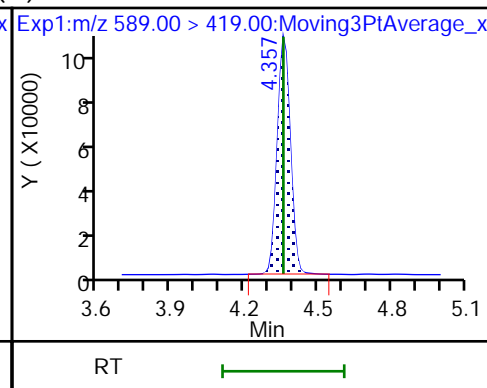
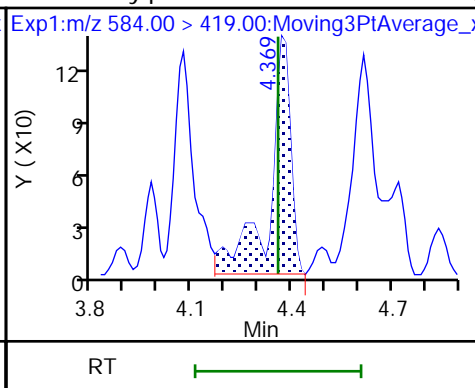
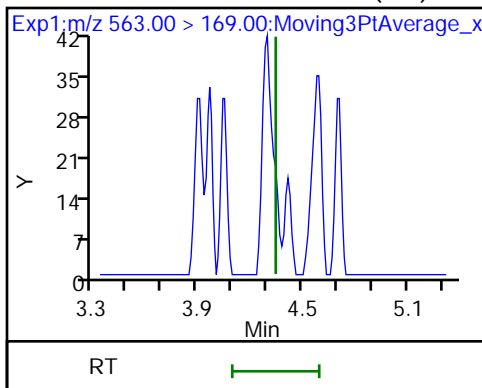
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

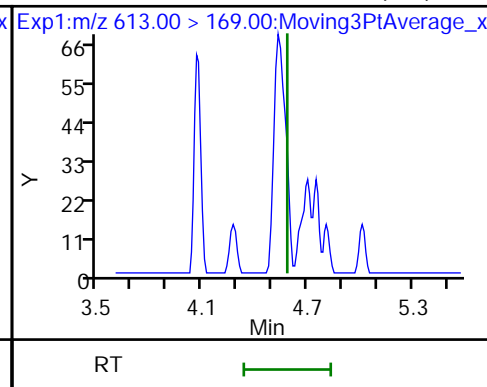
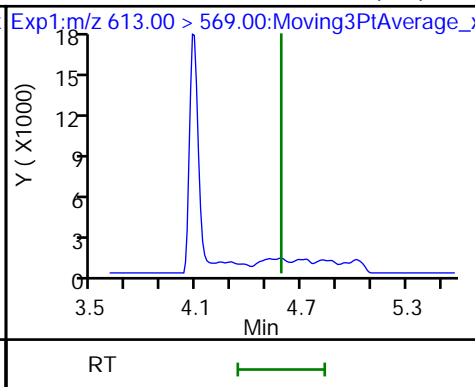
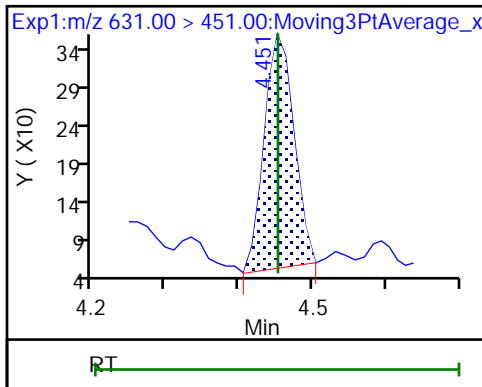
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

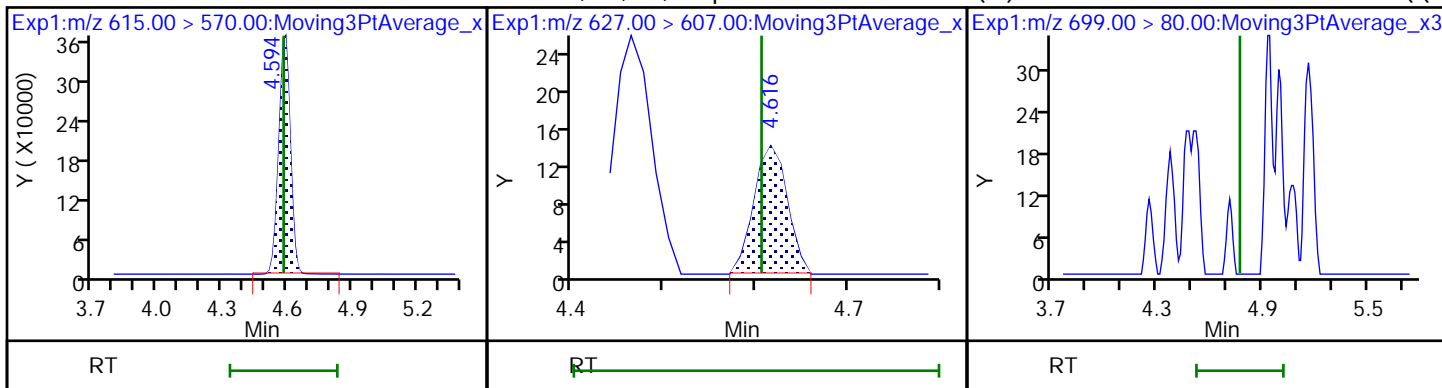
37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)



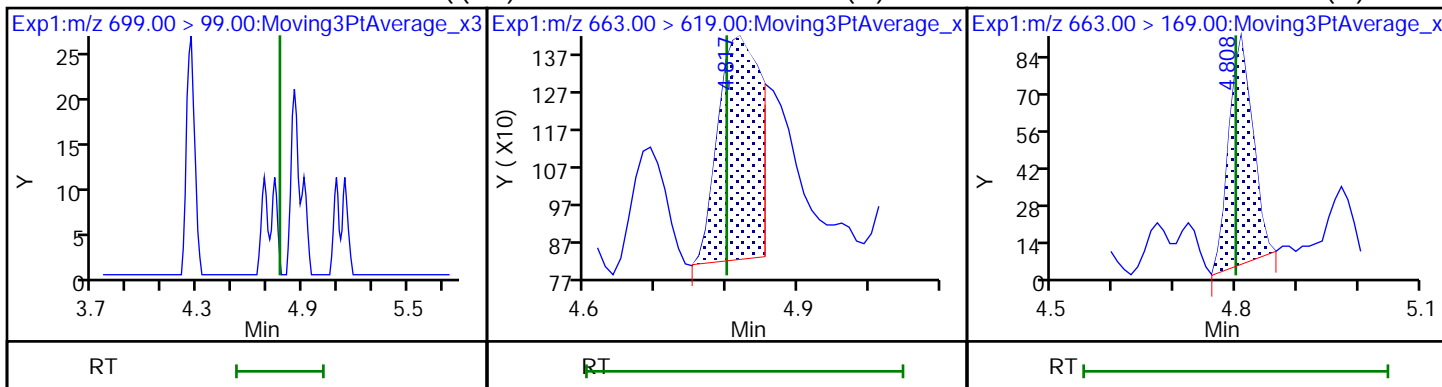
D 36 13C2 PFDoA

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



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (M)

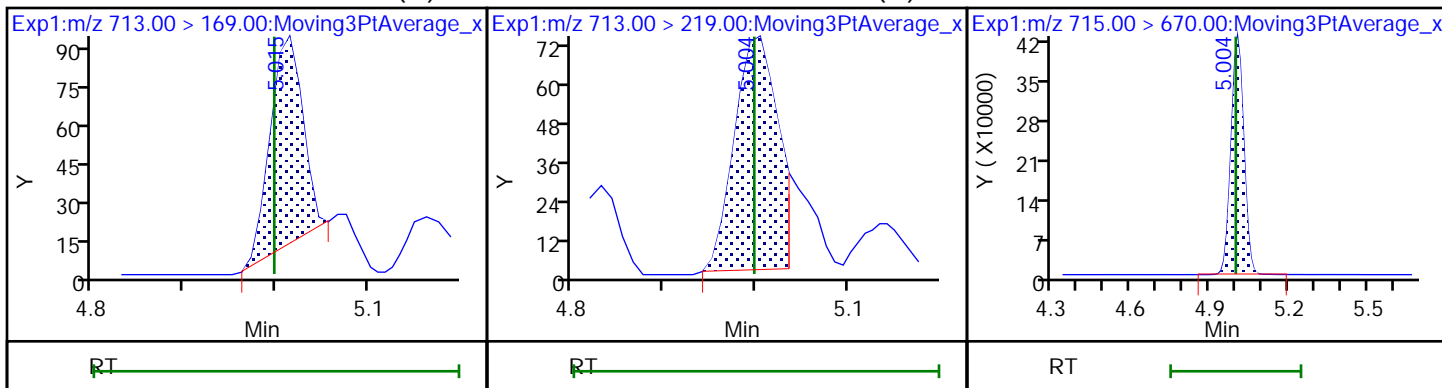
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

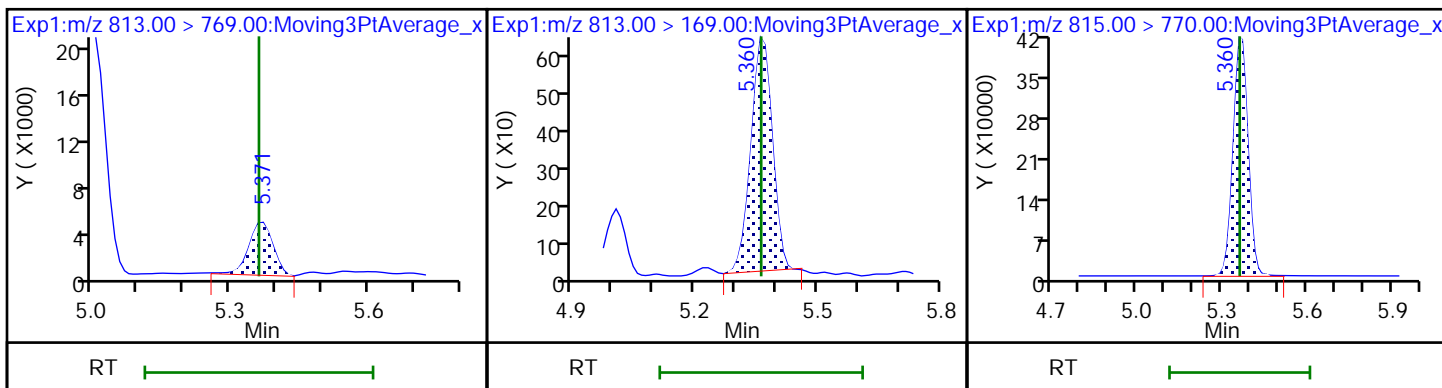
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

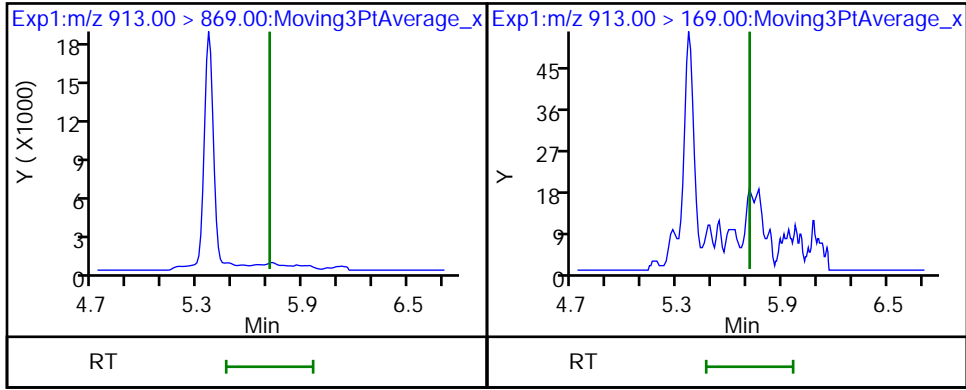
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

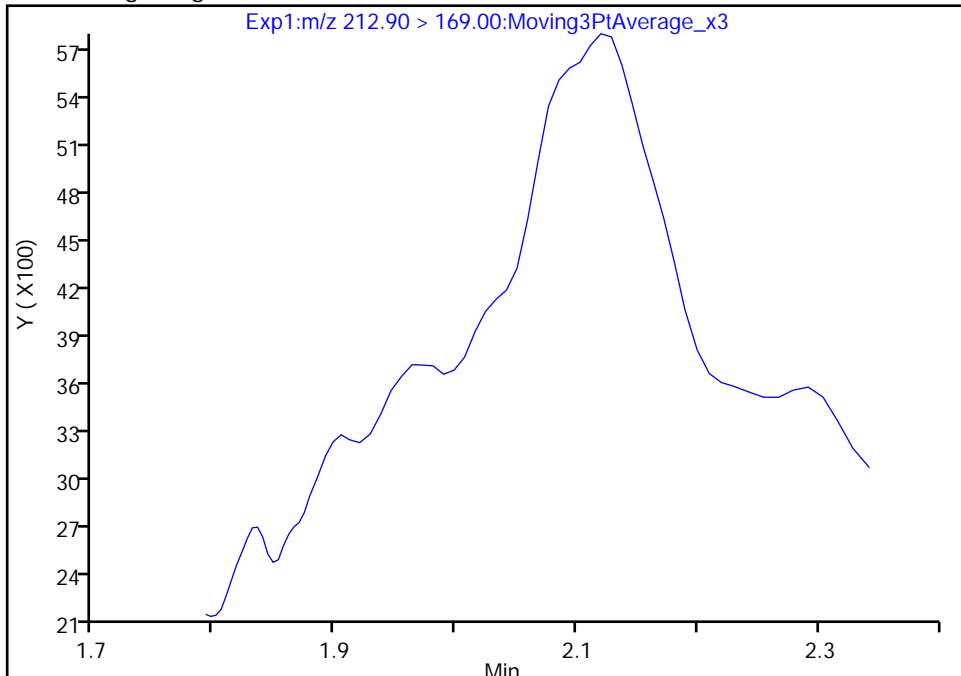
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

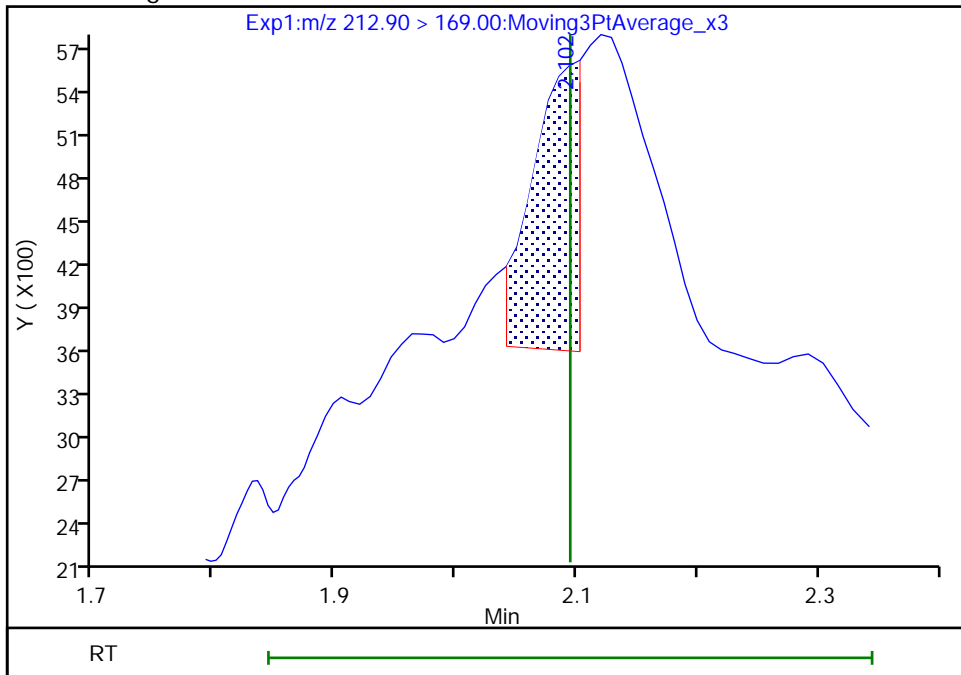
Not Detected
Expected RT: 2.09

Processing Integration Results



Manual Integration Results

RT: 2.10
Area: 5154
Amount: -0.040097
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:04:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

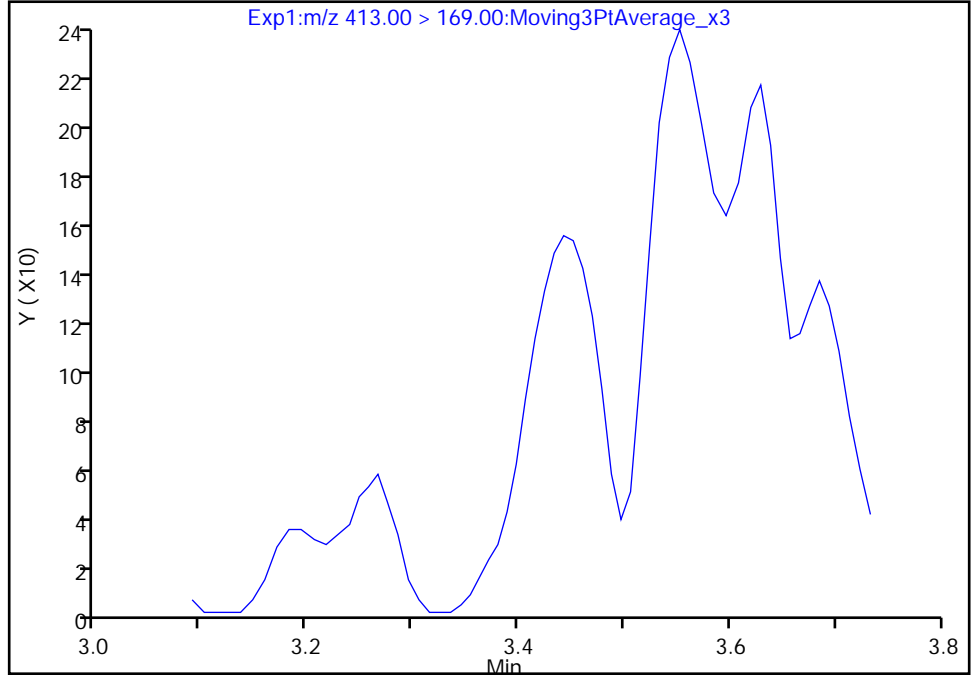
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

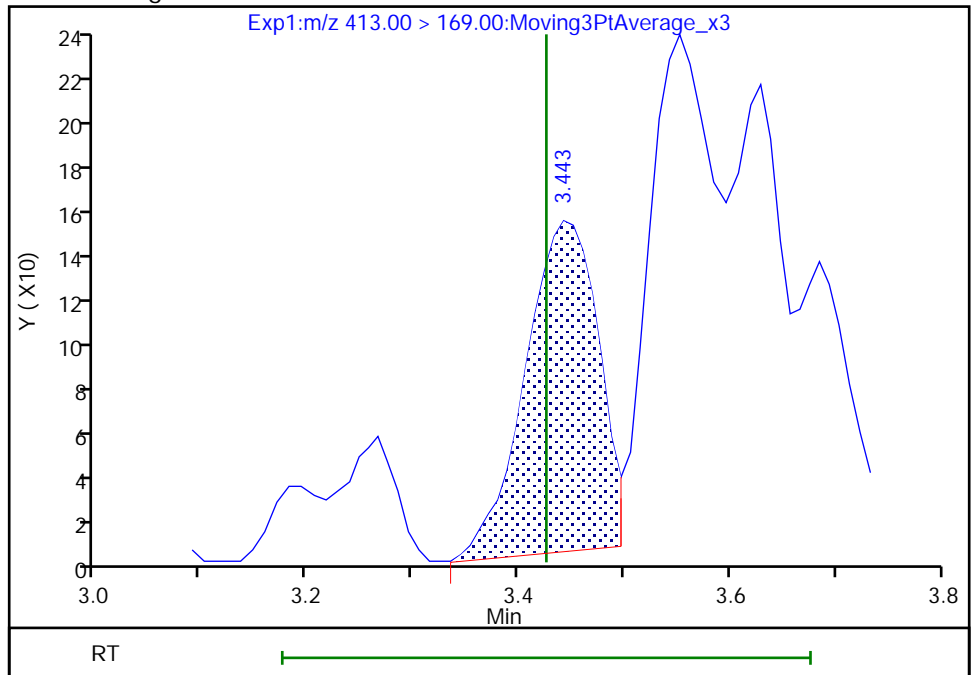
Not Detected
Expected RT: 3.43

Processing Integration Results



RT: 3.44
Area: 695
Amount: 0.005792
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:06:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

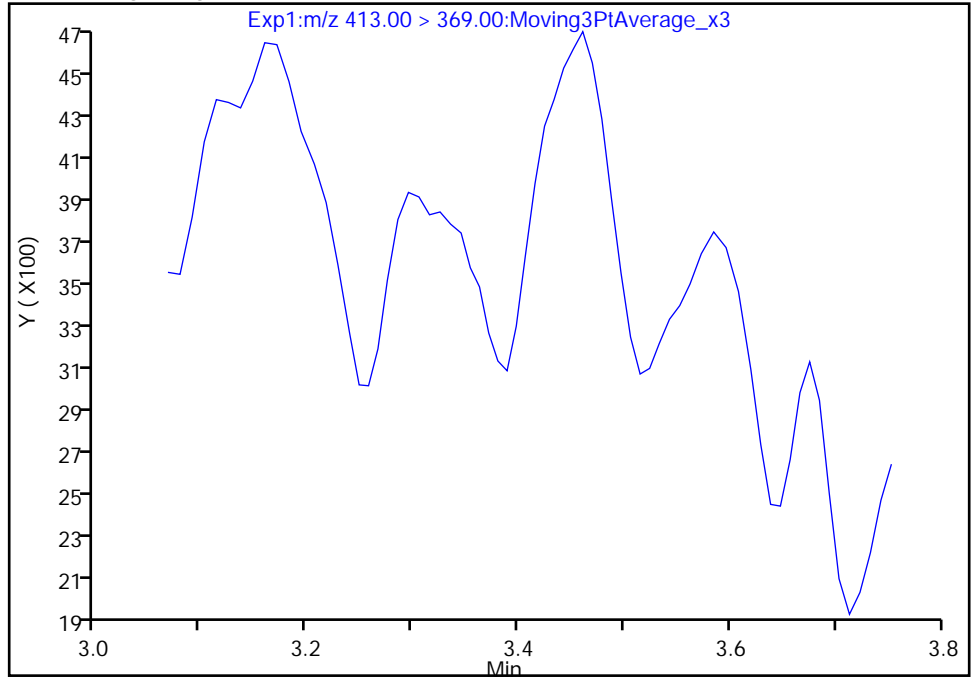
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

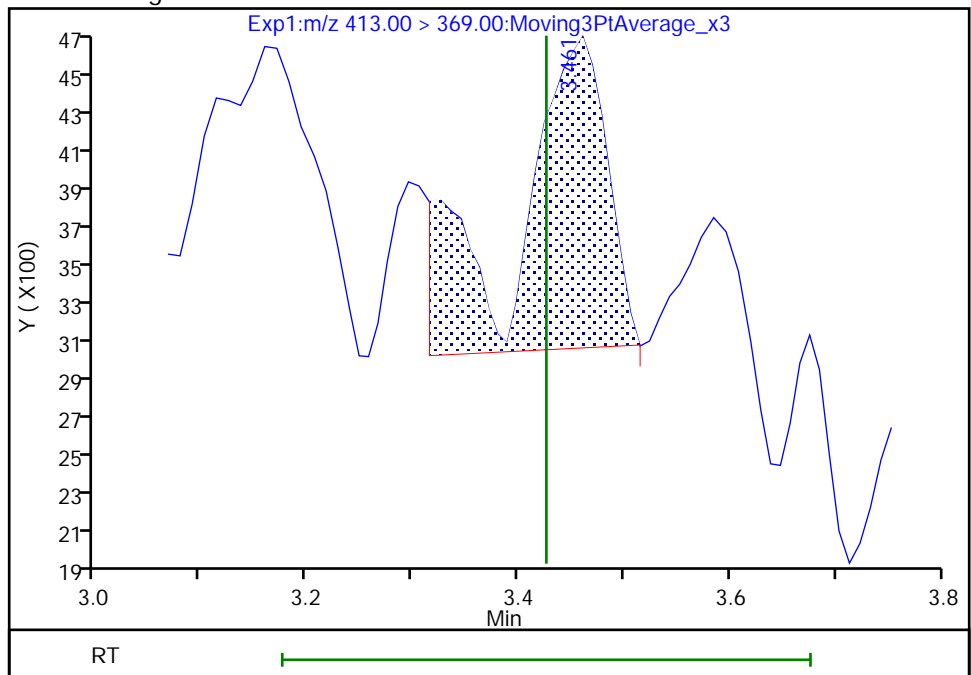
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 9116
Amount: 0.005792
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:06:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

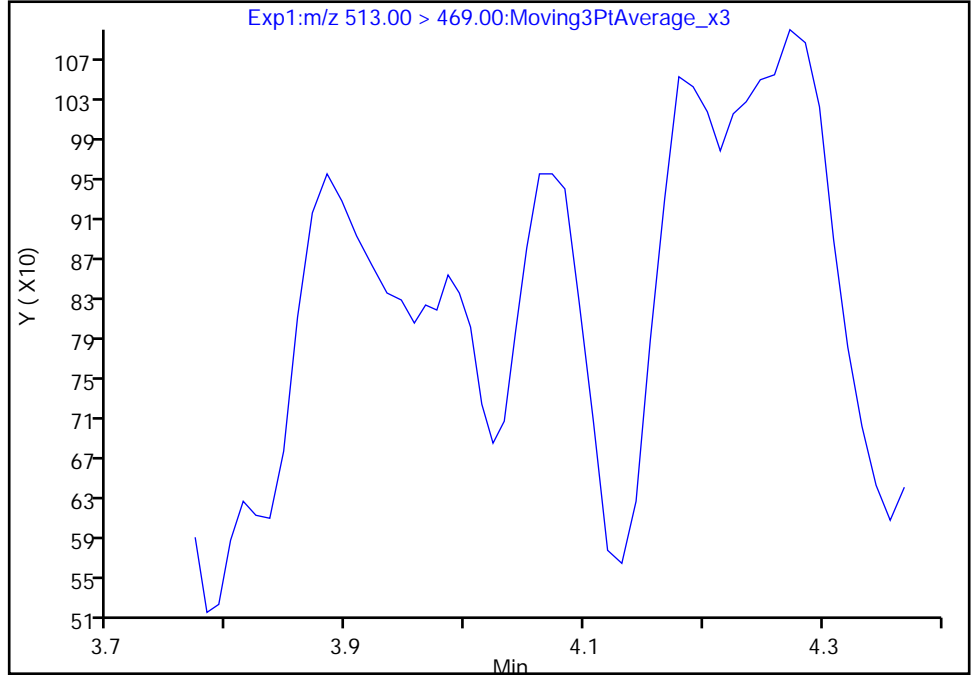
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Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

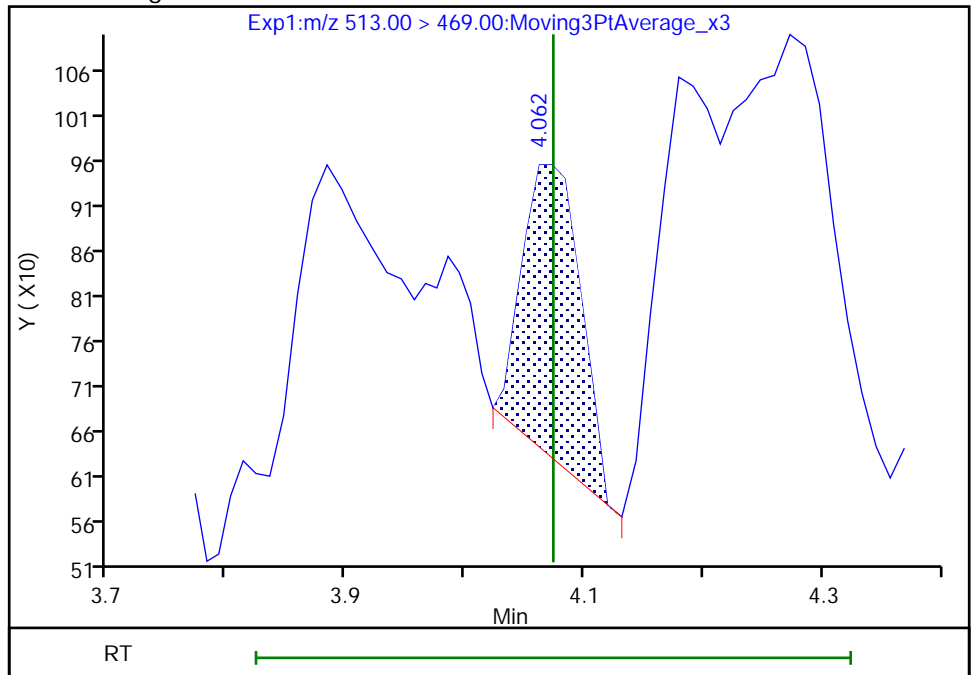
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.06
Area: 1098
Amount: 0.000728
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:08:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

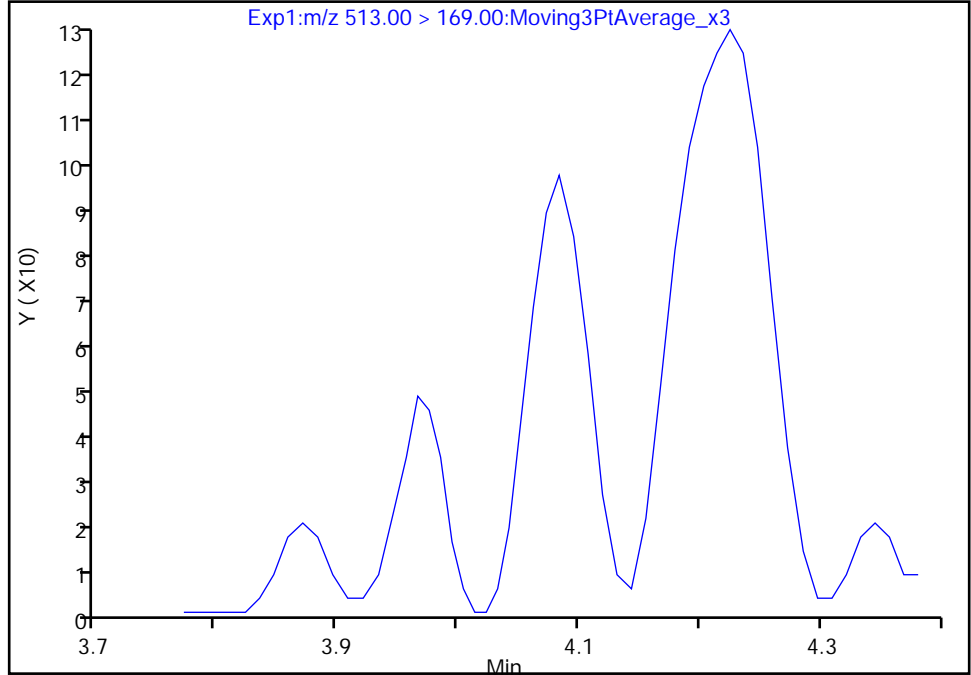
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

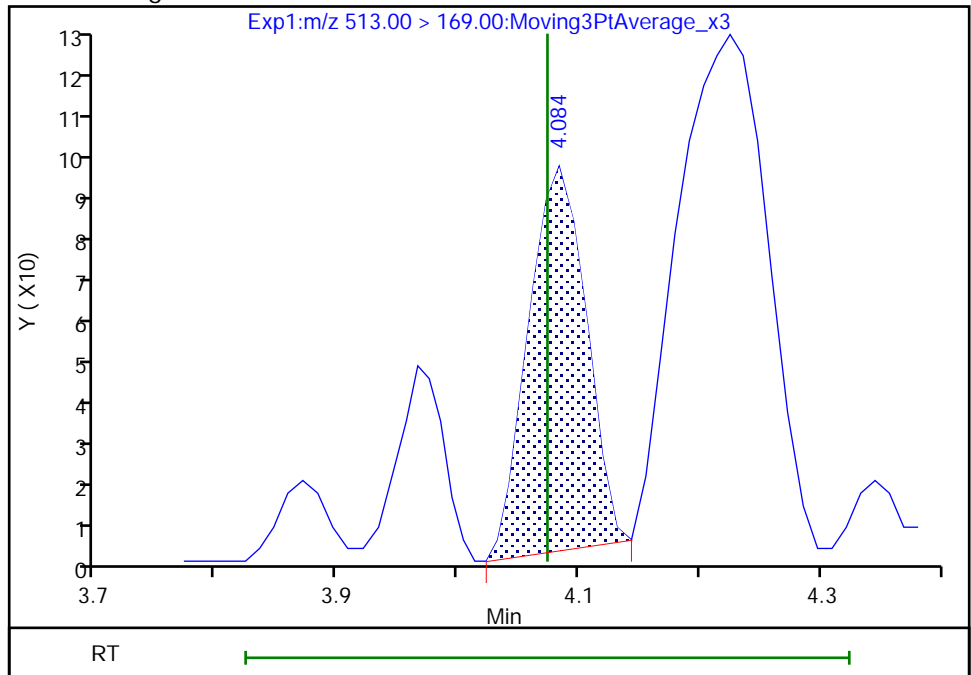
Not Detected
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 301
Amount: 0.000728
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:08:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

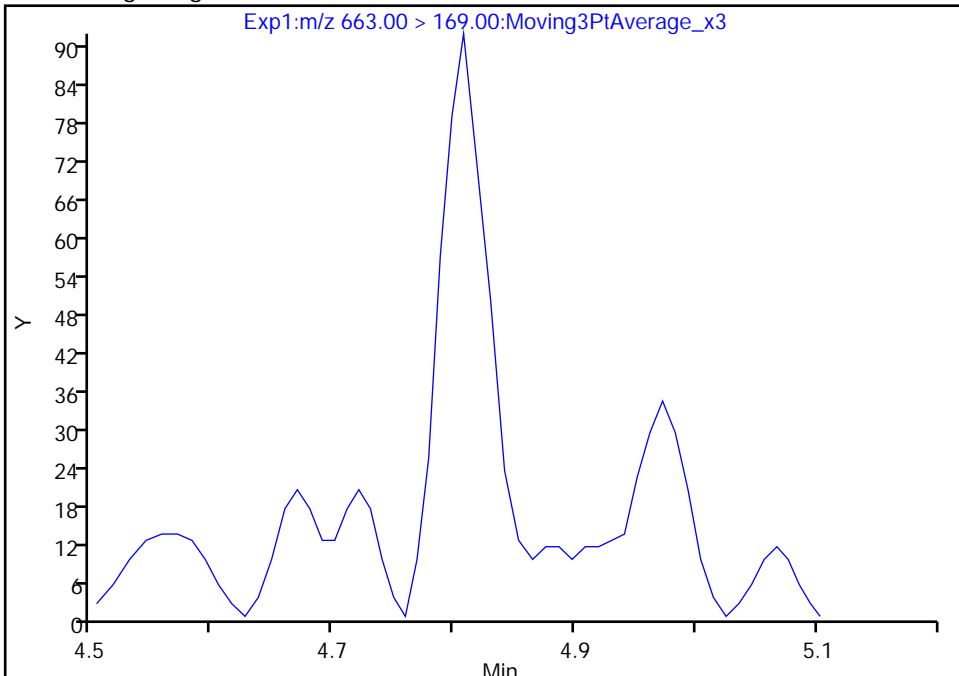
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

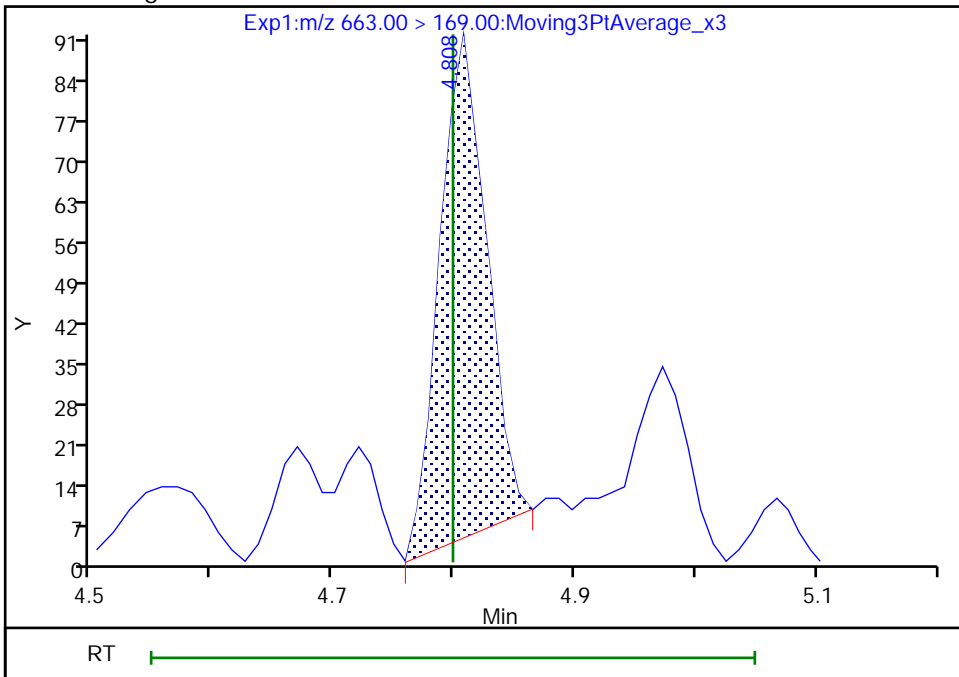
Signal: 2

Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results



RT: 4.81
Area: 236
Amount: 0.002206
Amount Units: ng/ml

Reviewer: khanphomeea, 27-Jan-2023 10:10:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

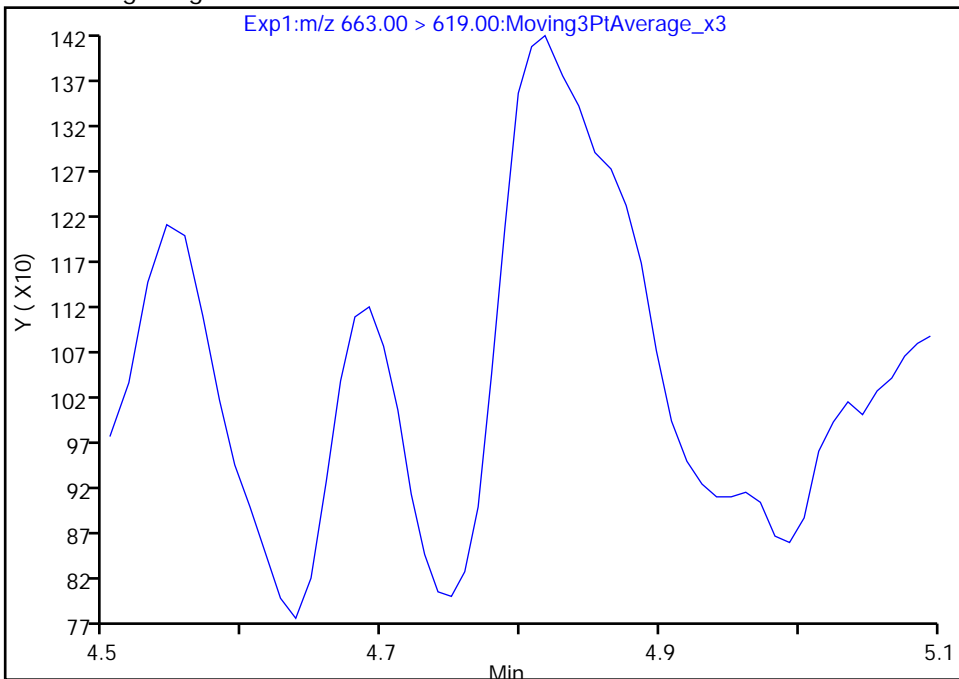
Data File:	\\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d		
Injection Date:	26-Jan-2023 20:11:01	Instrument ID:	LC812
Lims ID:	CCB		
Client ID:			
Operator ID:	LC812user	ALS Bottle#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	4

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

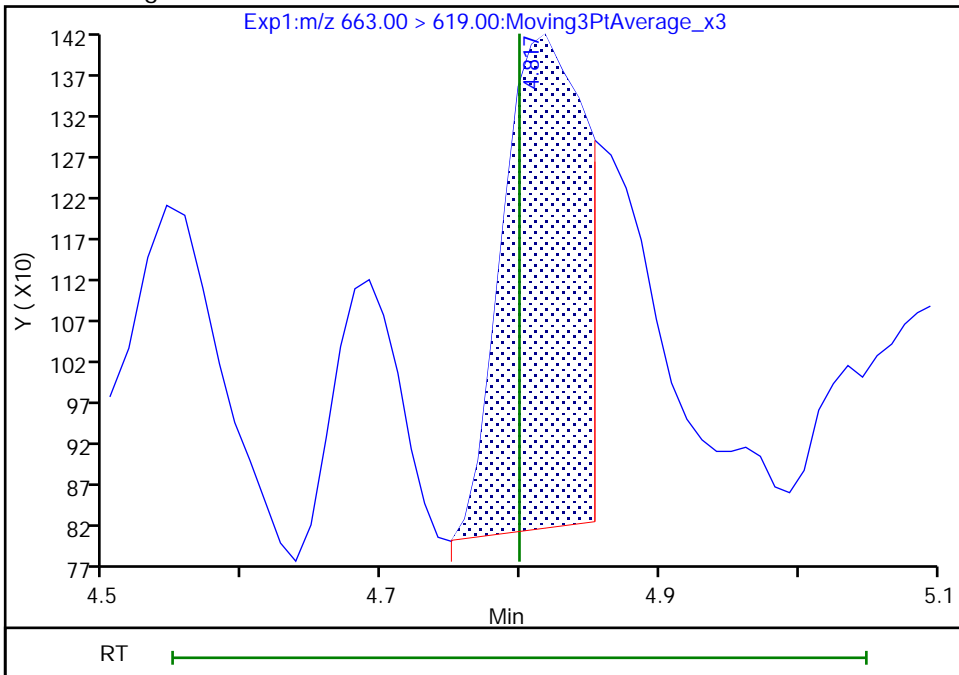
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.82
 Area: 2410
 Amount: 0.002206
 Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:10:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

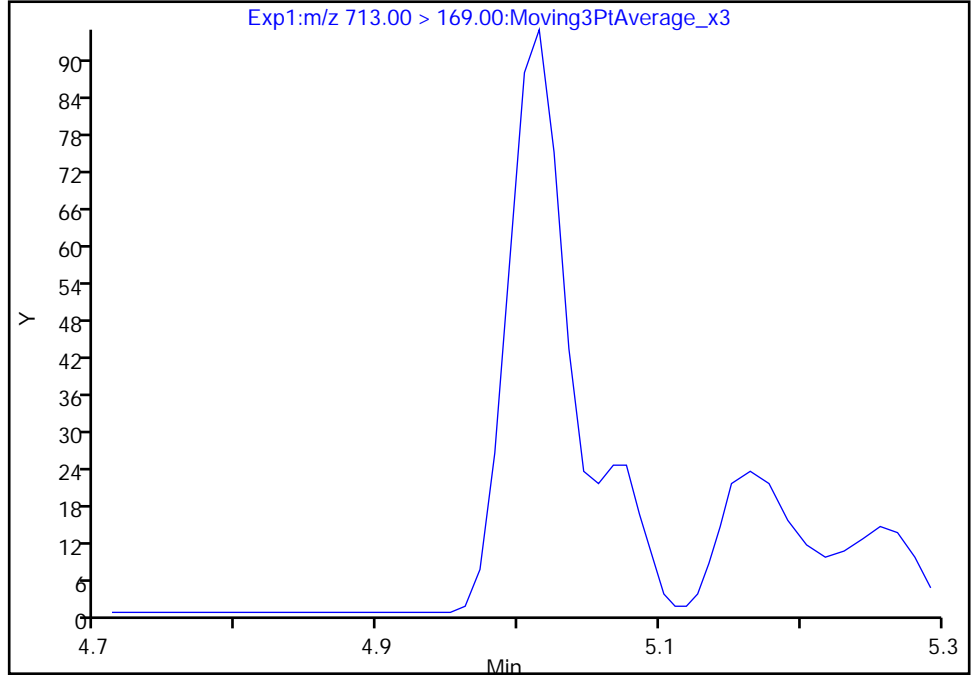
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

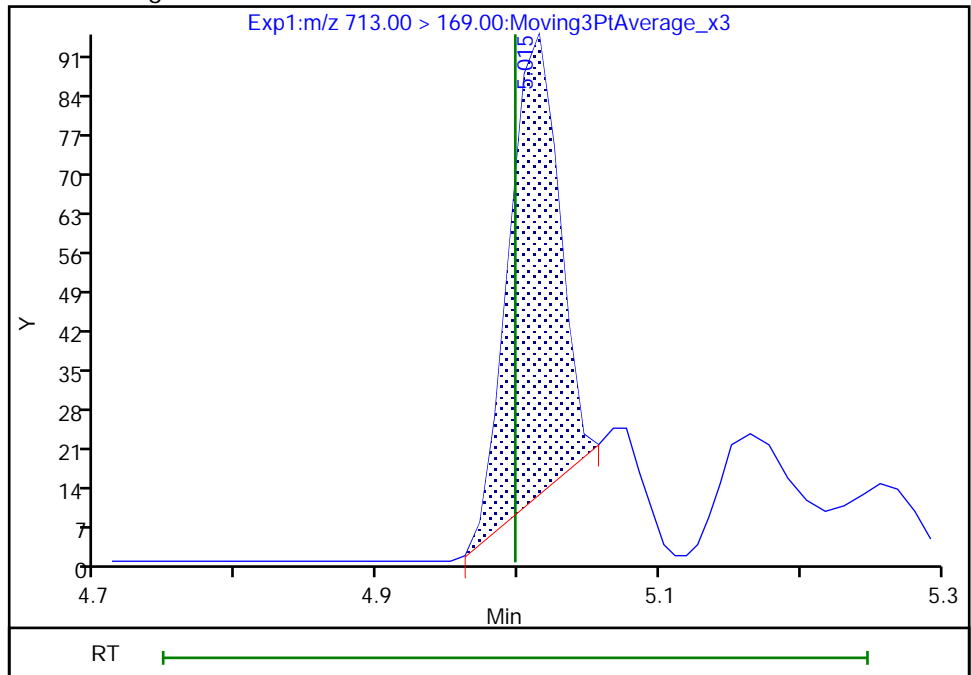
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 205
Amount: 0.001439
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:10:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 763 of 950

Eurofins Burlington

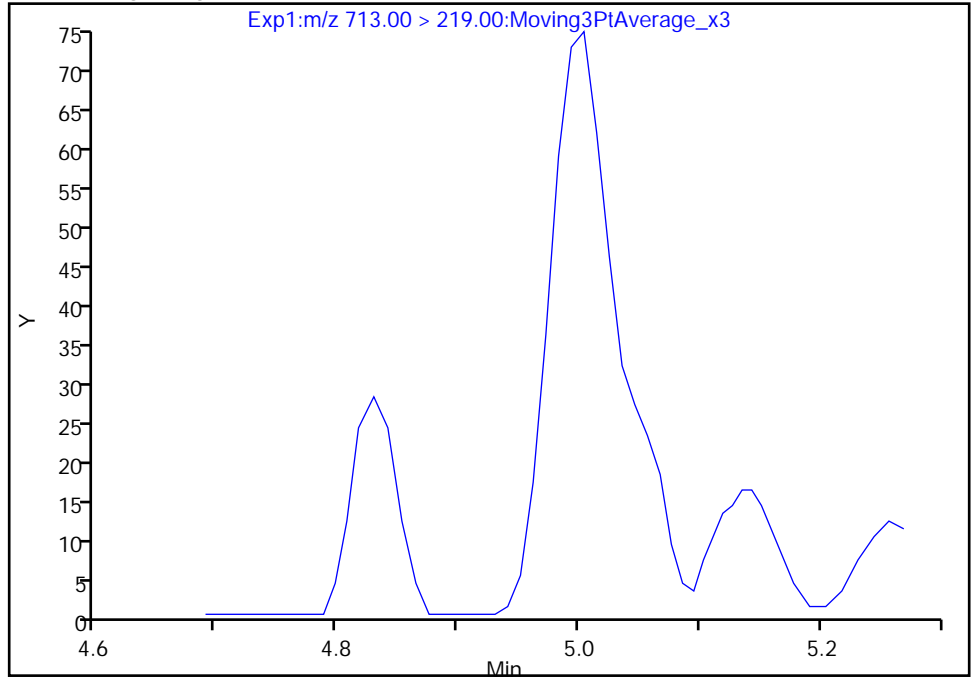
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

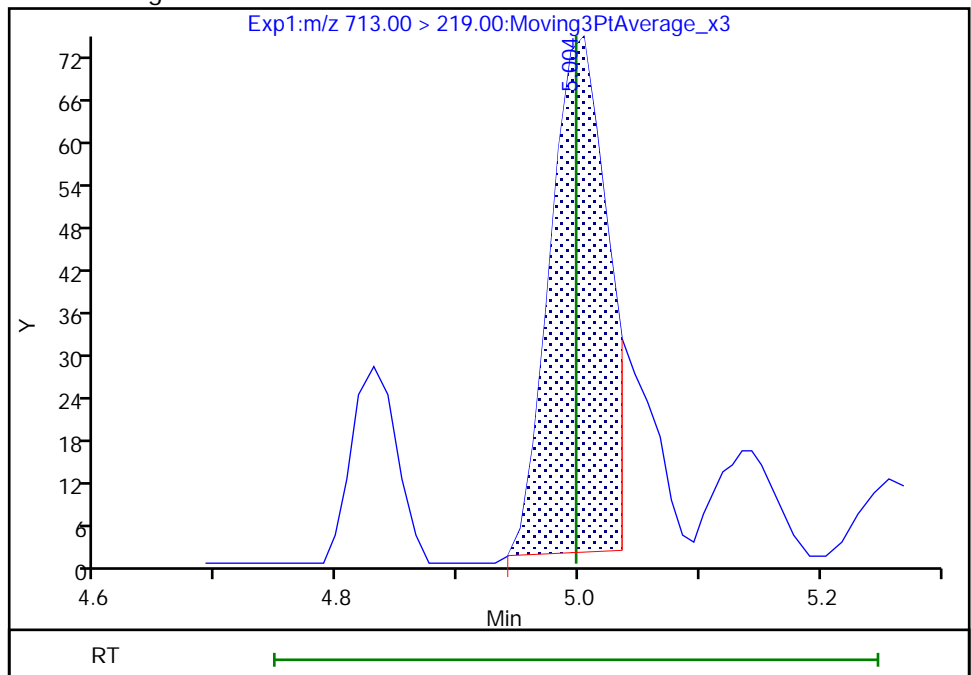
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 237
Amount: 0.001439
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:10:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

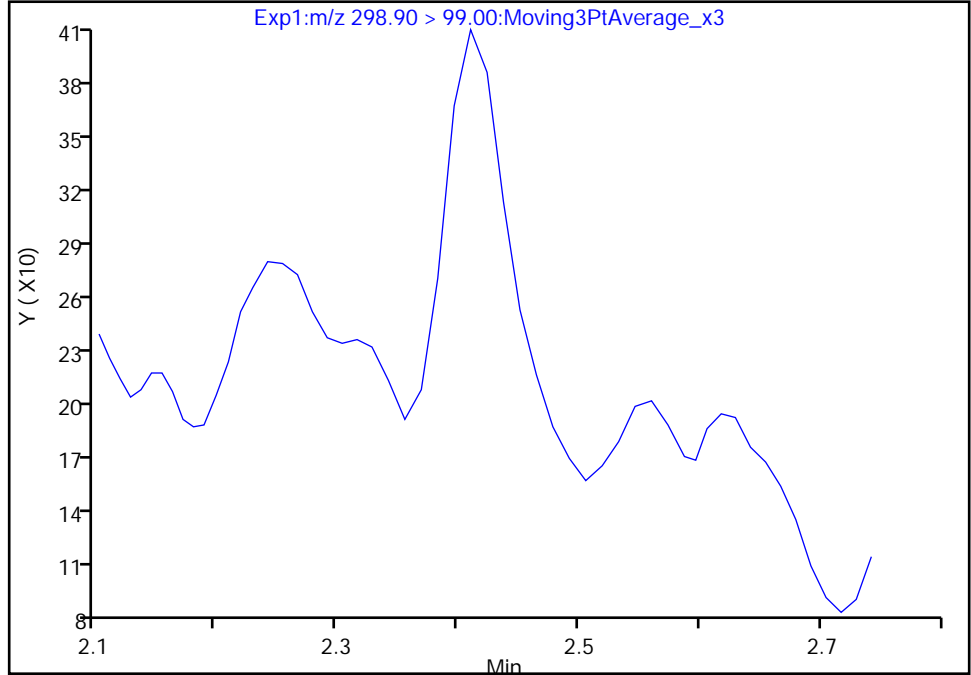
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

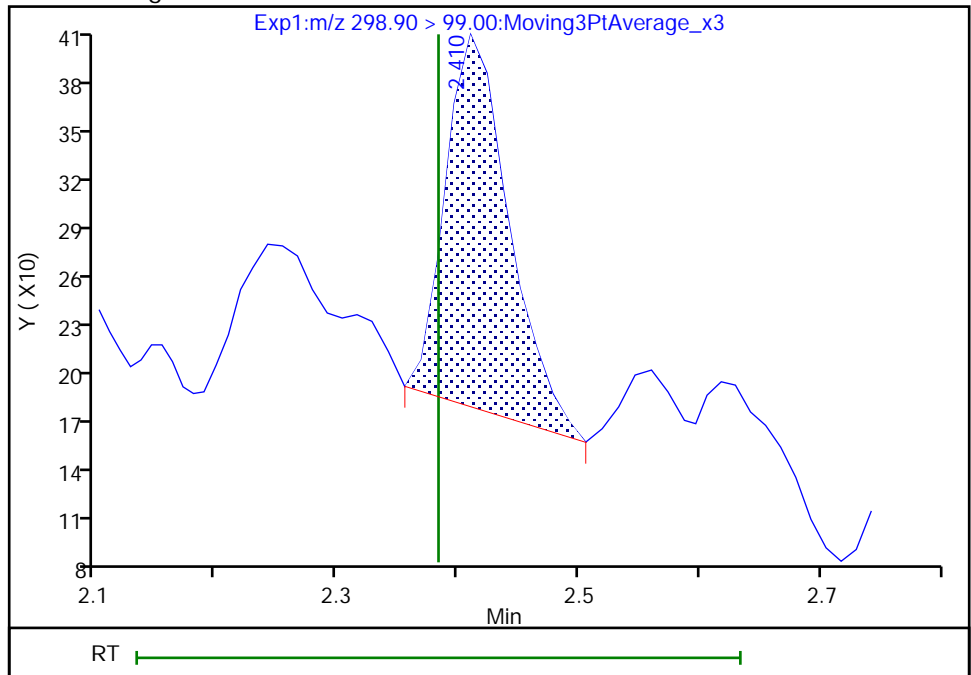
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 815
Amount: 0.001049
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:04:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

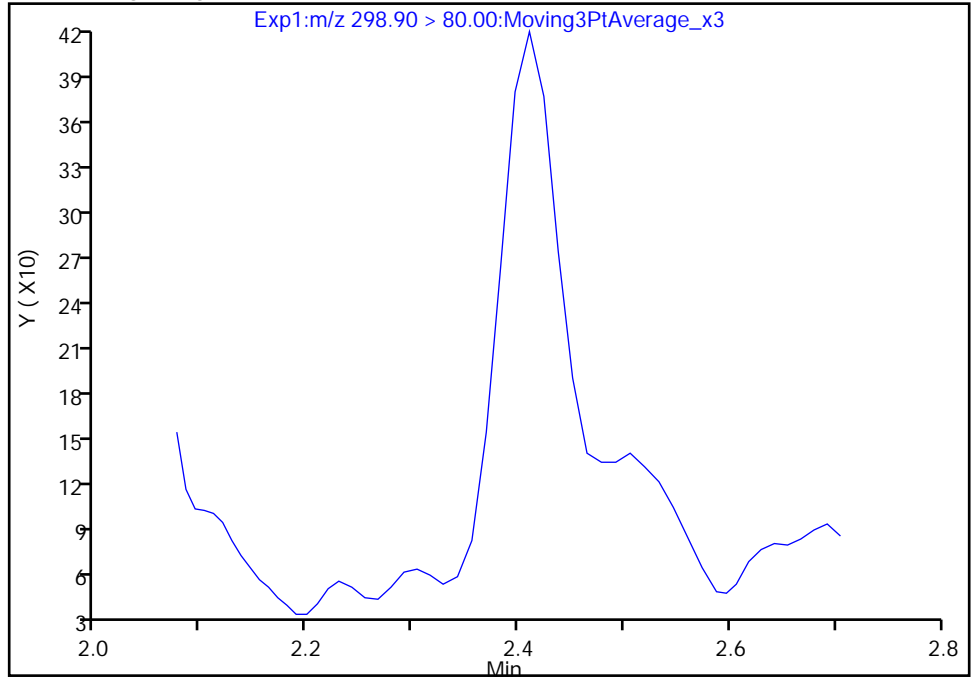
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

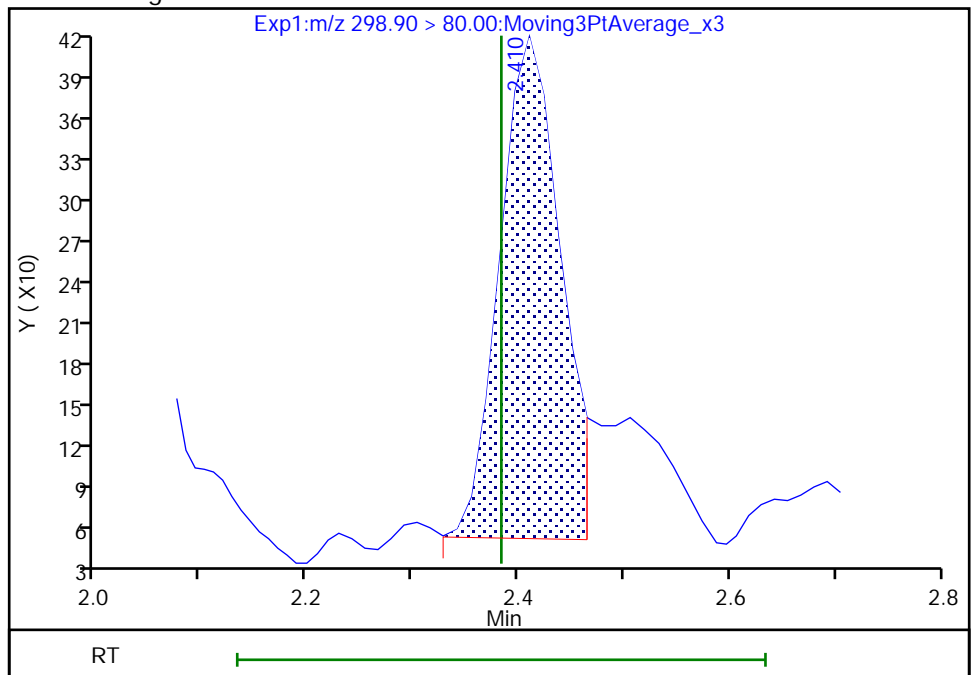
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1451
Amount: 0.001049
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:04:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

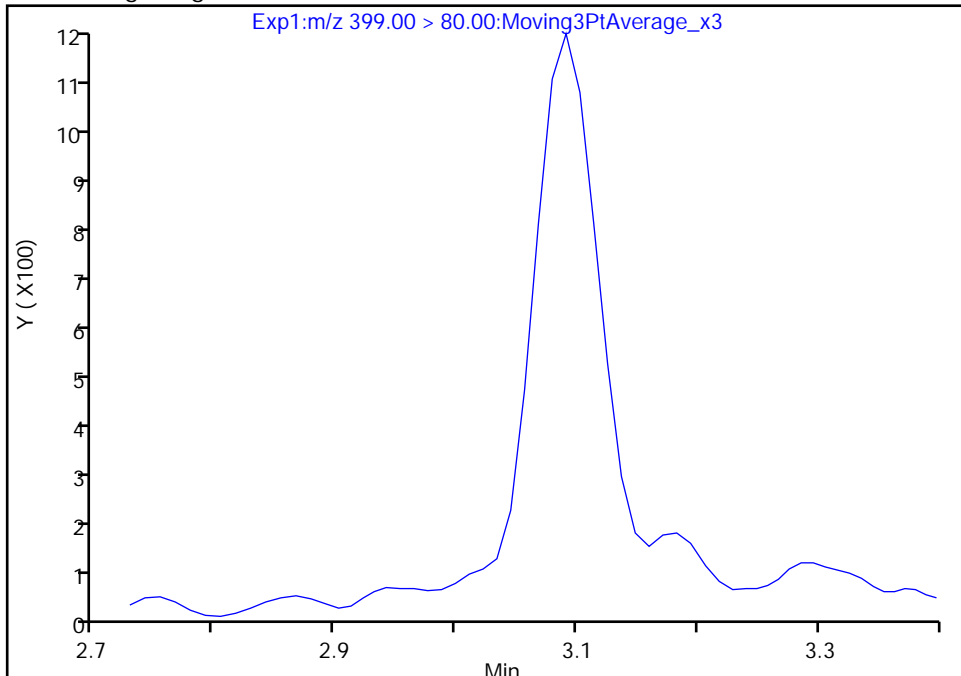
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Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

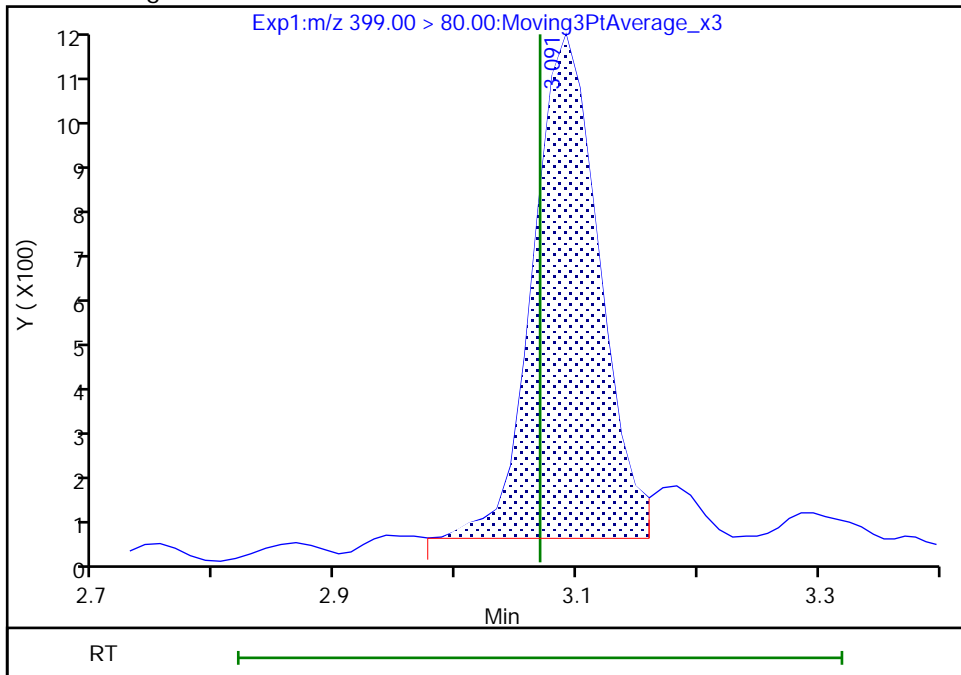
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 4110
Amount: 0.004494
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:05:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

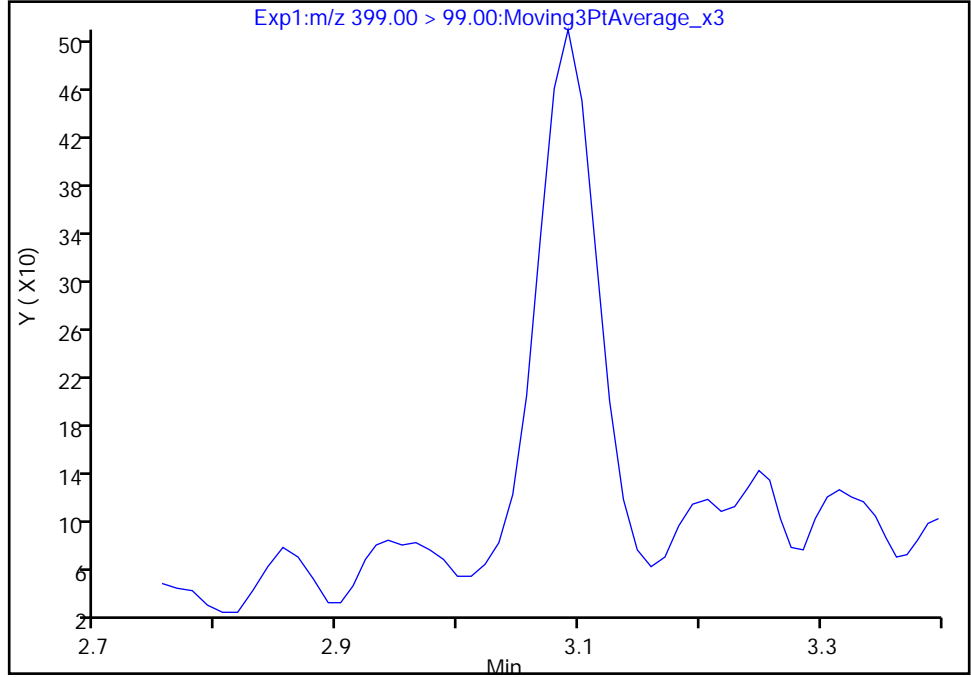
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

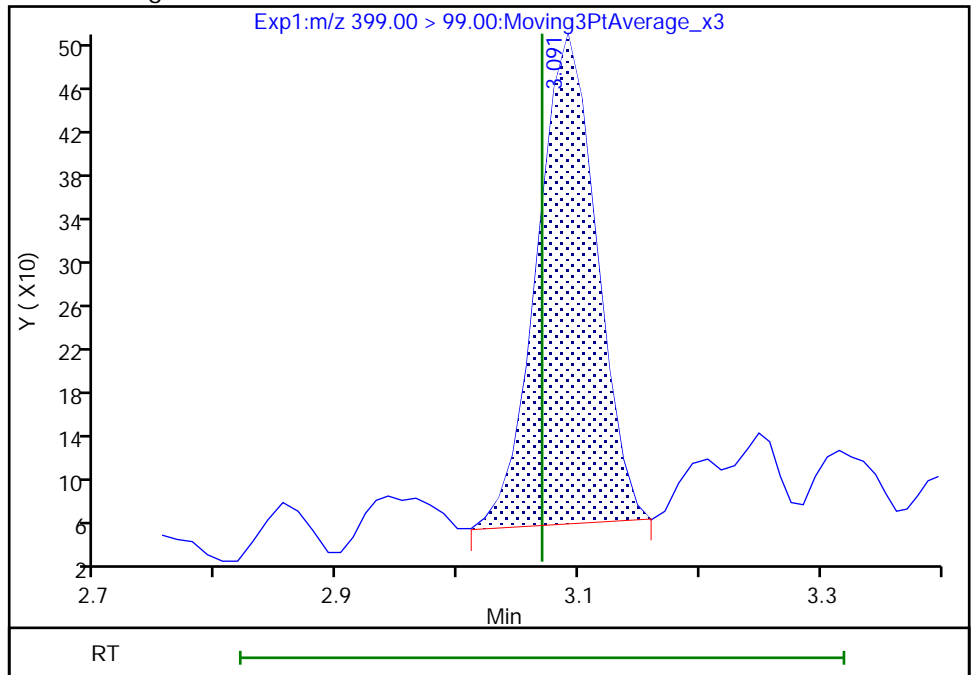
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 1546
Amount: 0.004494
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:06:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

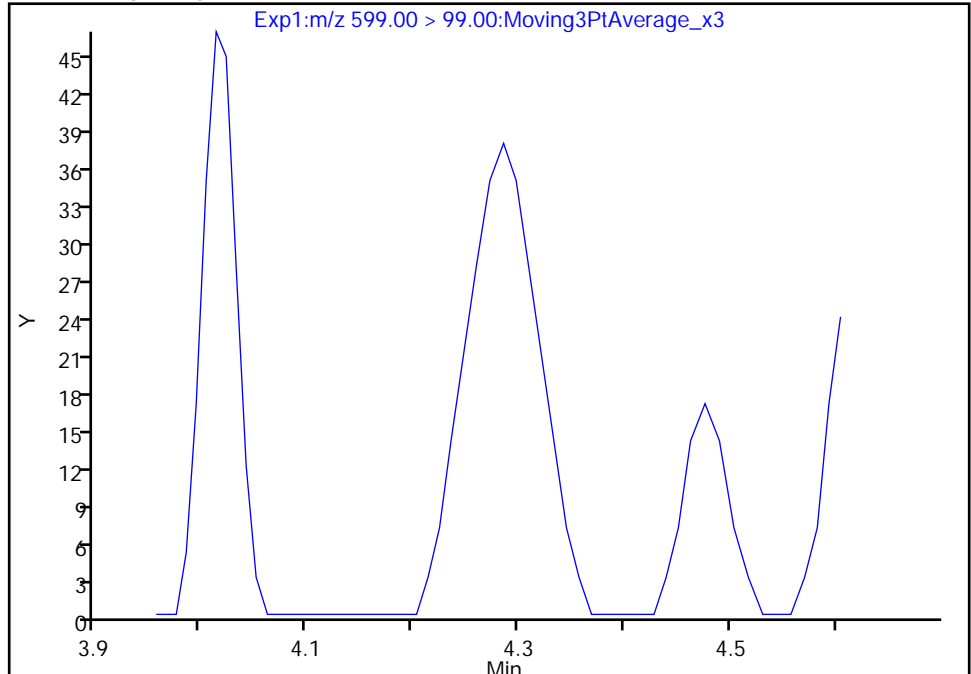
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Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

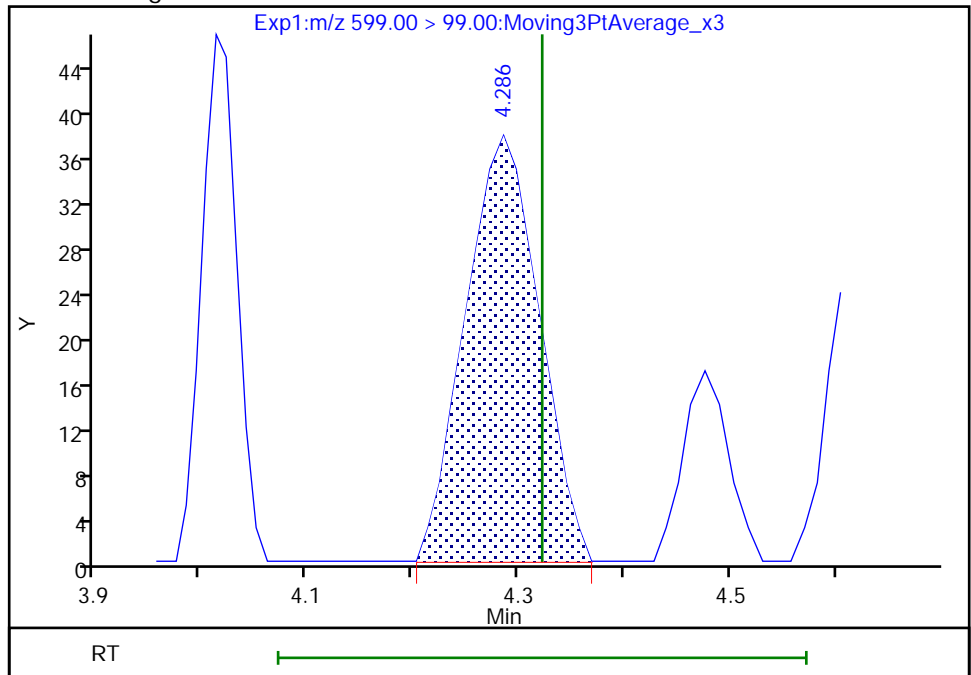
Not Detected
Expected RT: 4.32

Processing Integration Results



RT: 4.29
Area: 184
Amount: 0.000308
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:09:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

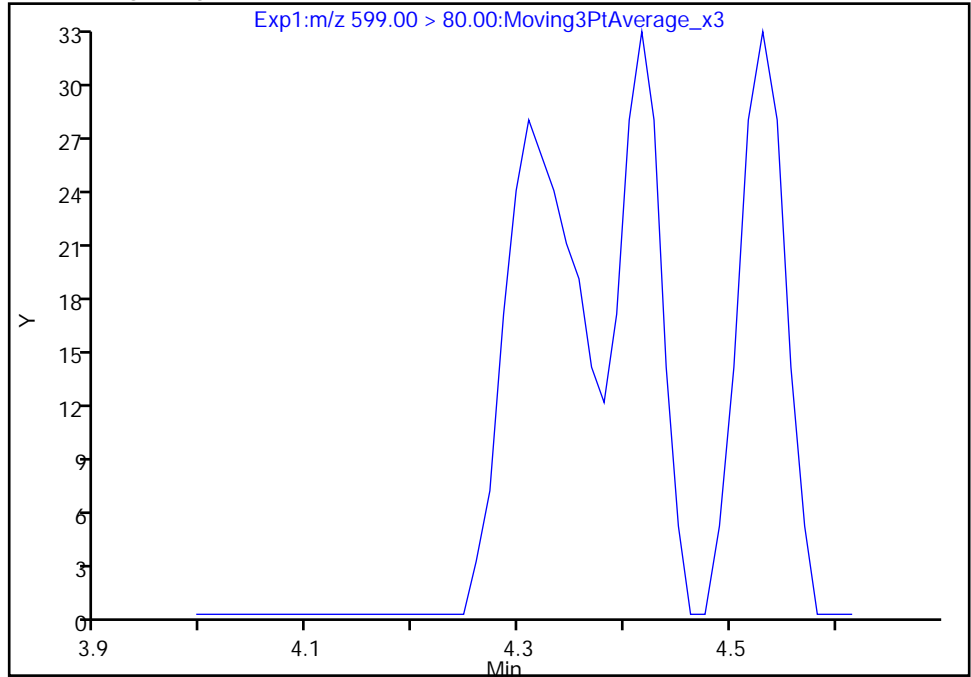
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Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

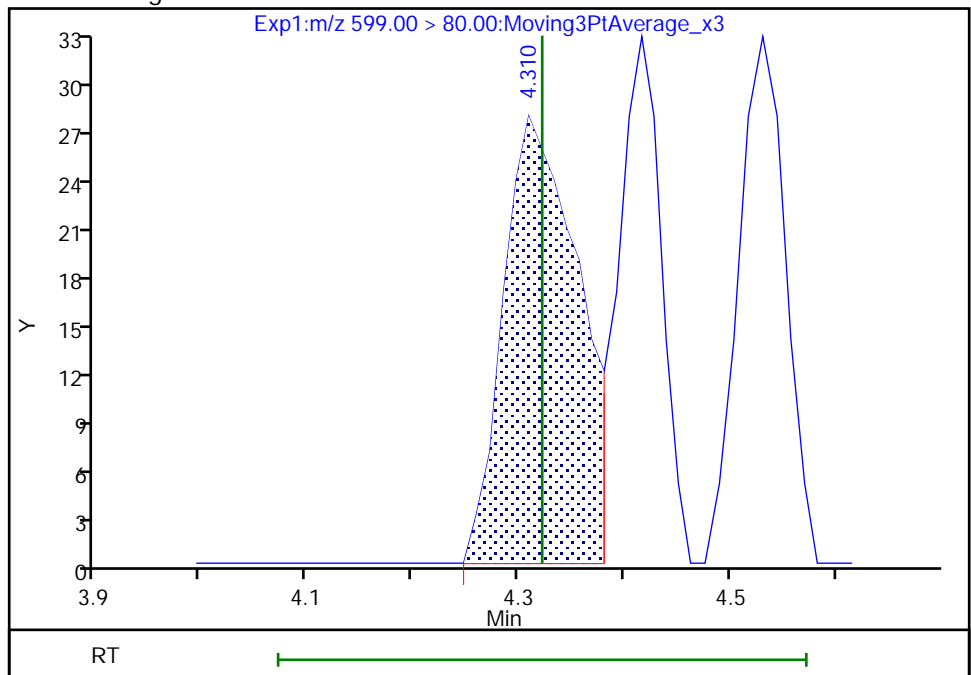
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 135
Amount: 0.000308
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:09:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

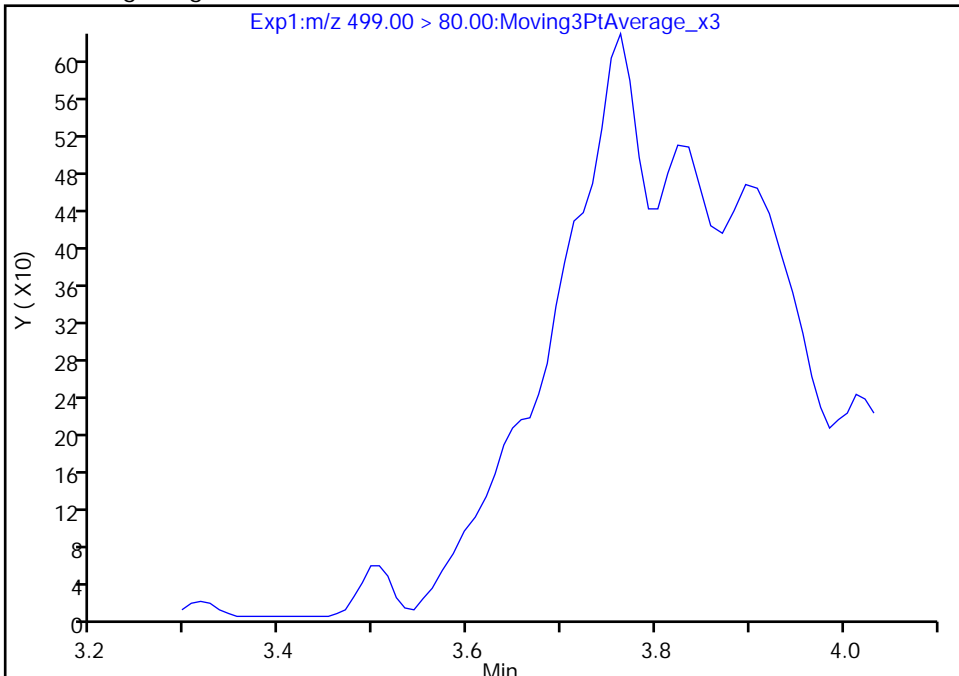
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Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

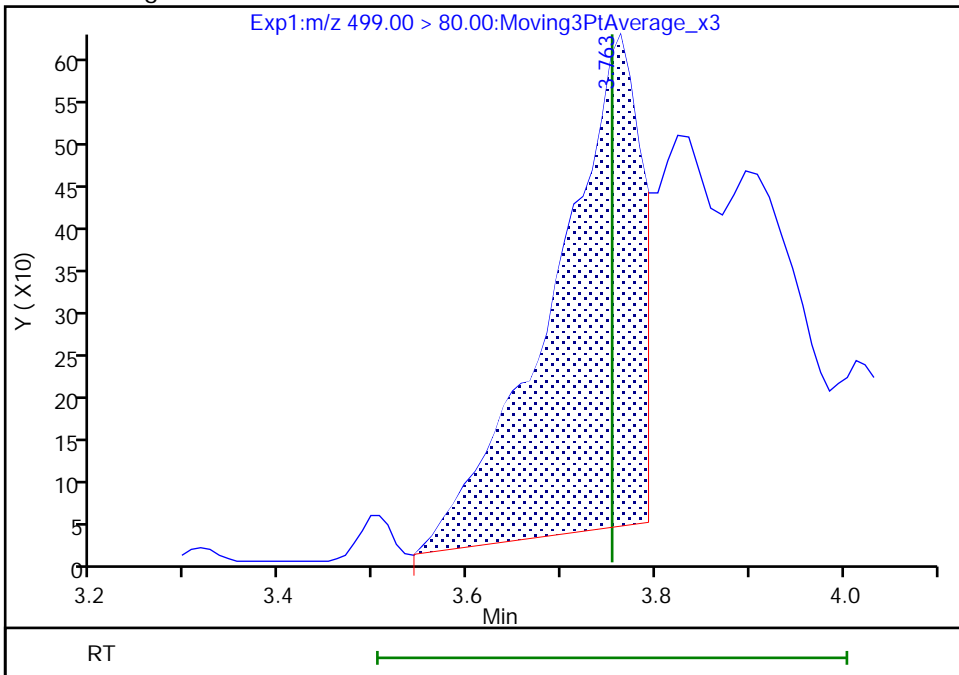
Not Detected
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.76
Area: 3722
Amount: 0.005254
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:07:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

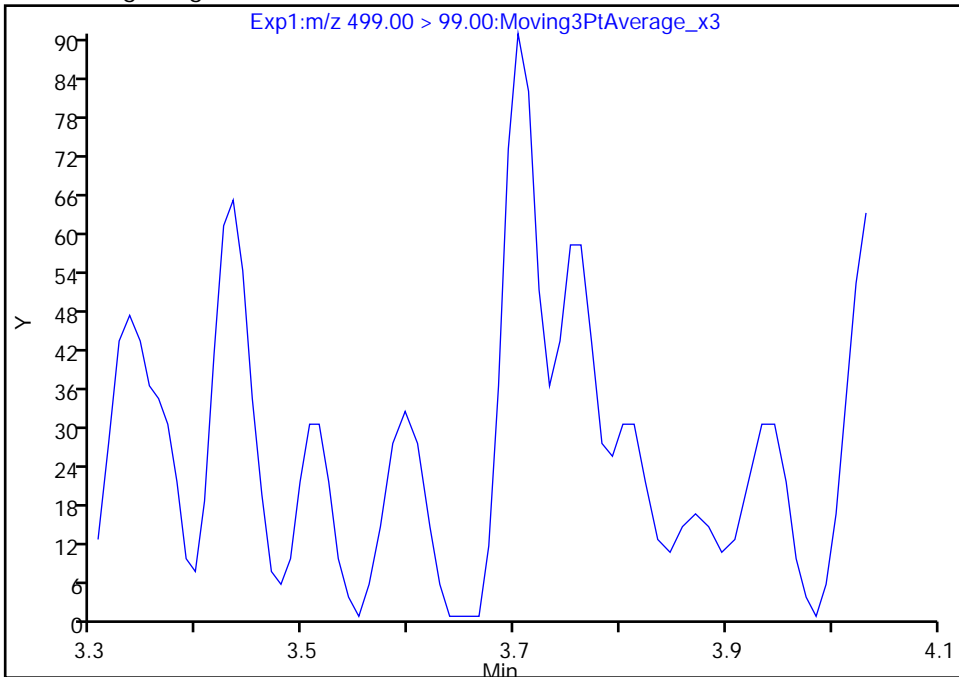
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

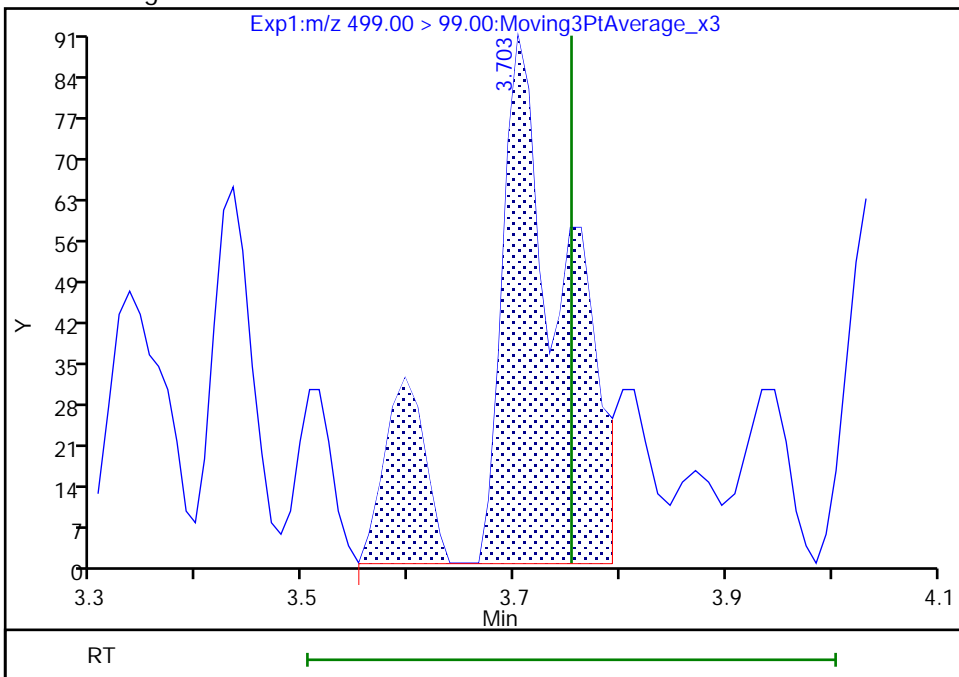
Not Detected
Expected RT: 3.75

Processing Integration Results



RT: 3.70
Area: 447
Amount: 0.005254
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:07:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

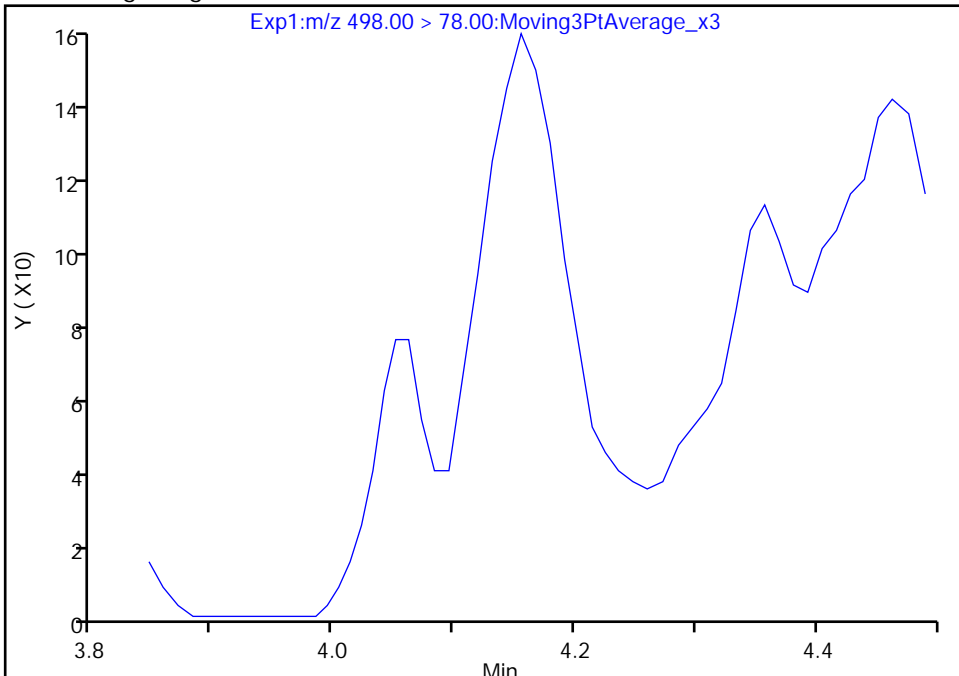
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

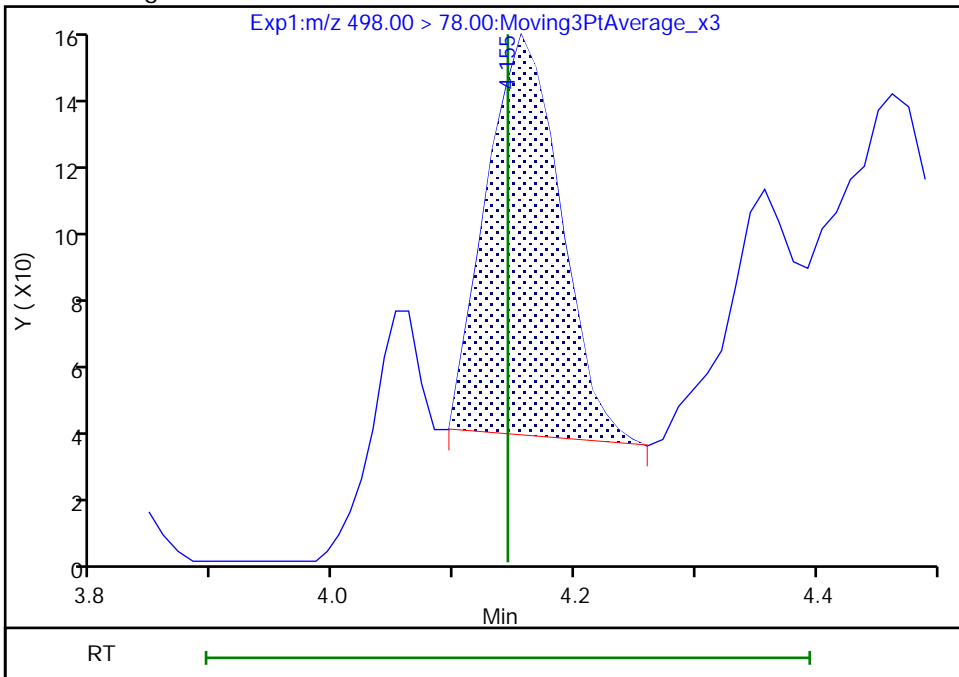
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 521
Amount: 0.000511
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:09:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

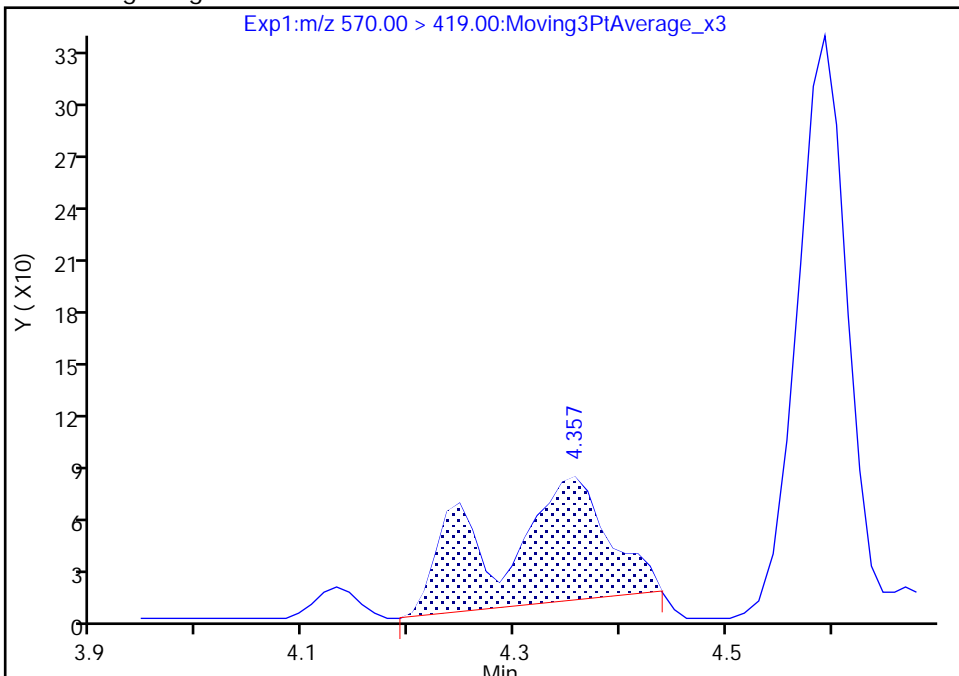
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

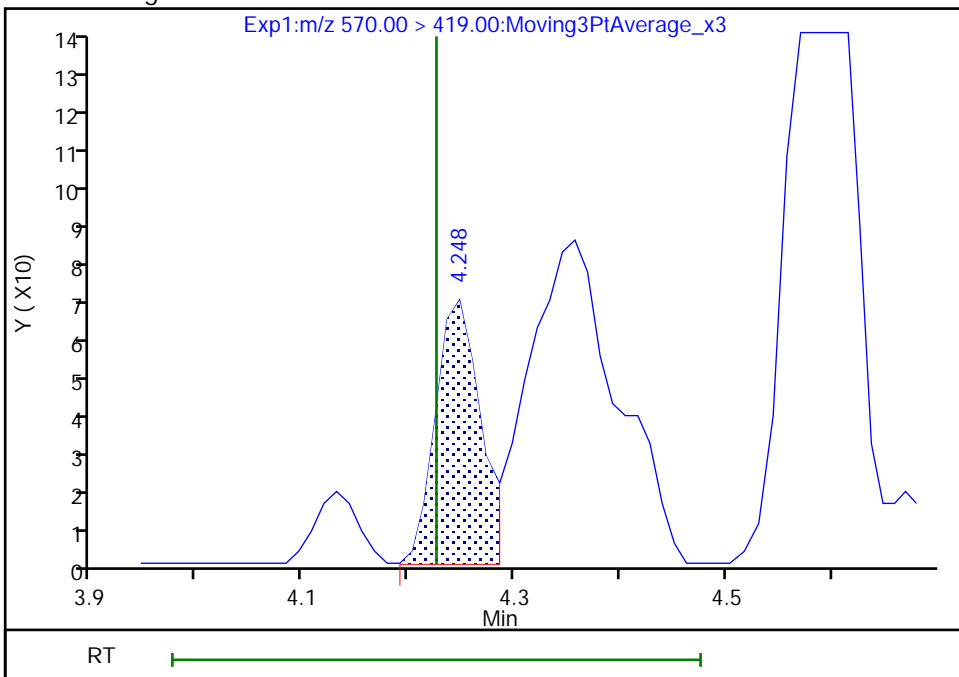
RT: 4.36
Area: 540
Amount: 0.001842
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 191
Amount: 0.000651
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:09:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

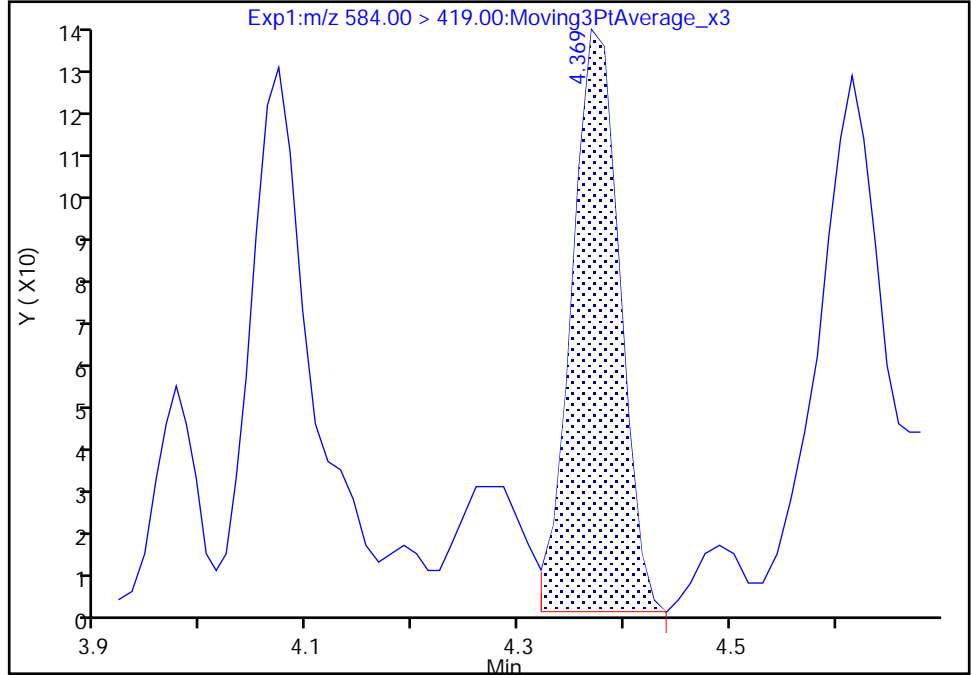
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

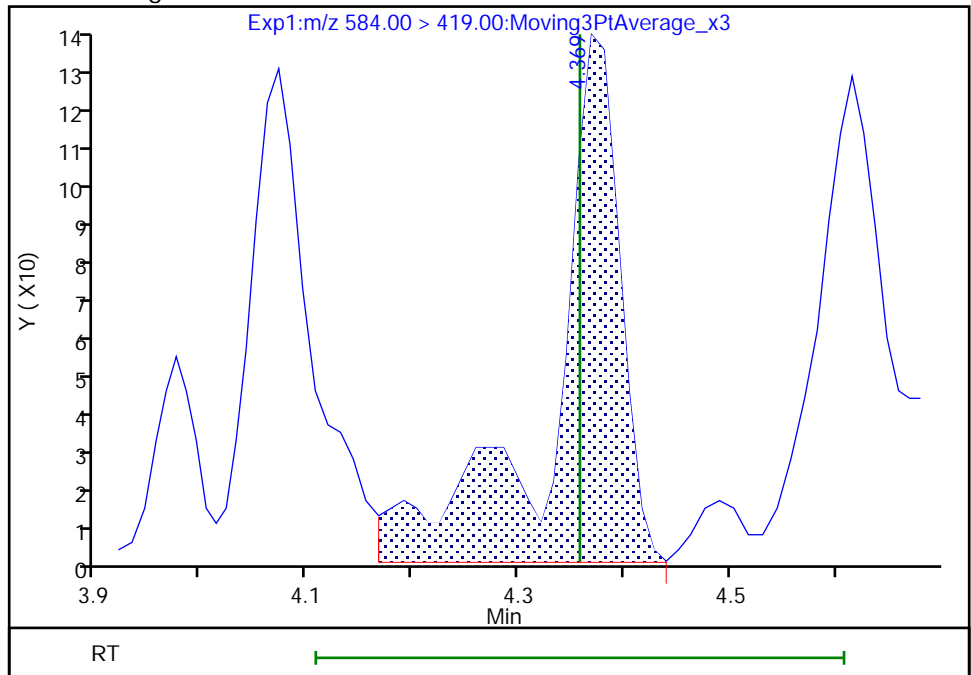
RT: 4.37
Area: 437
Amount: 0.001573
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 613
Amount: 0.002206
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:09:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

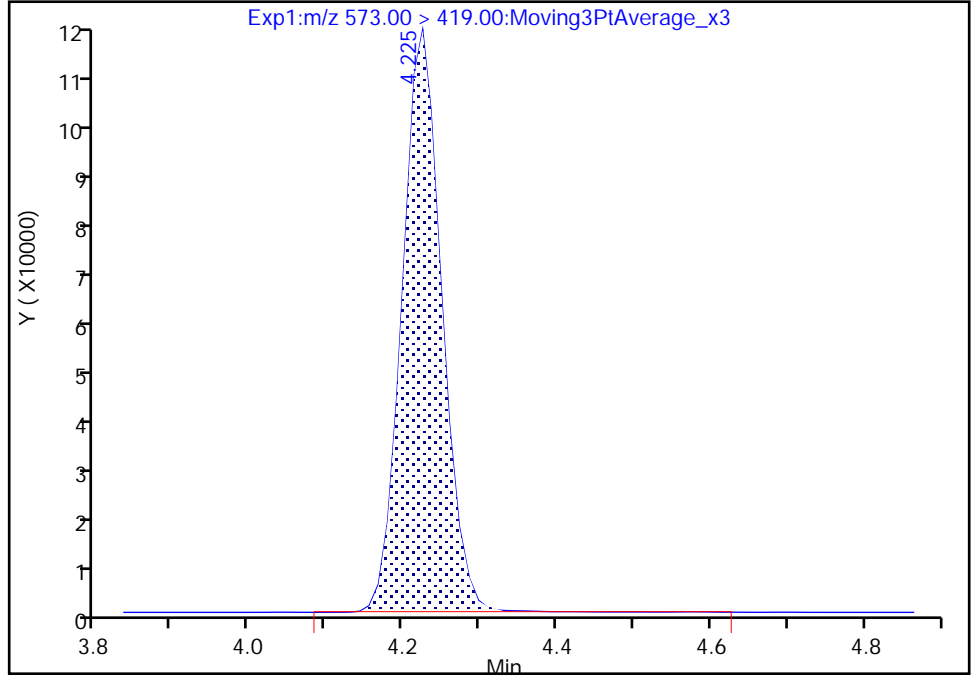
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

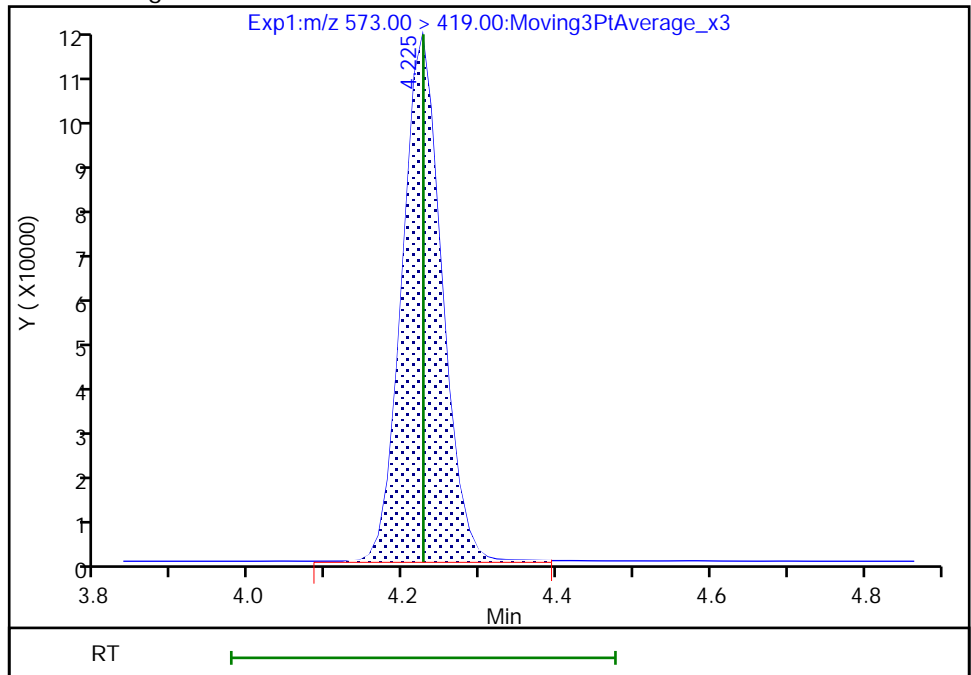
RT: 4.23
Area: 407372
Amount: 1.528652
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 406524
Amount: 1.525470
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 27-Jan-2023 10:04:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

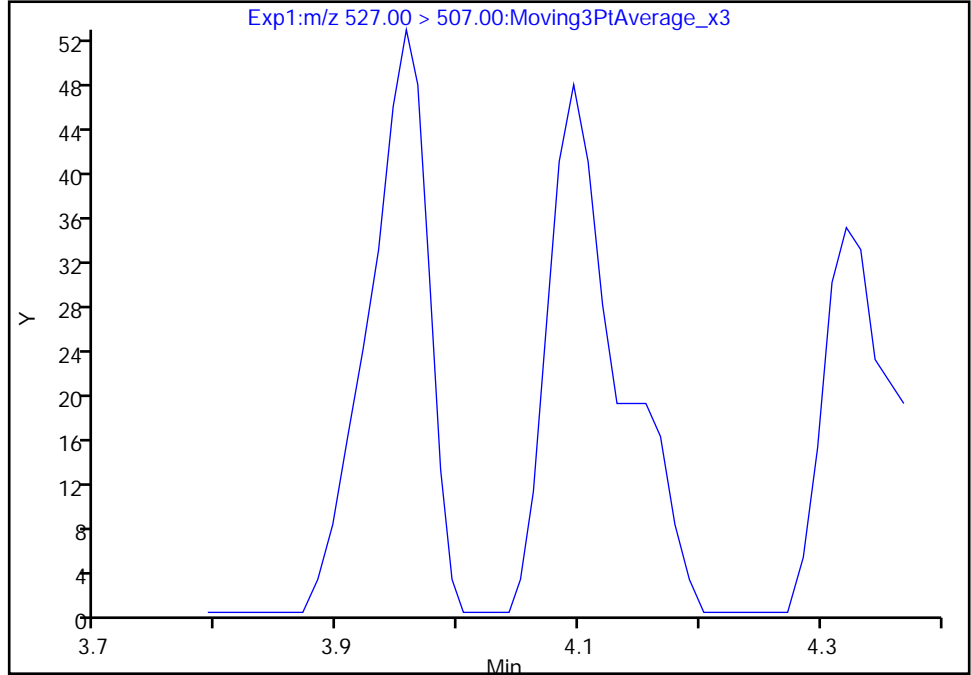
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A04.d
Injection Date: 26-Jan-2023 20:11:01 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: LC812user ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

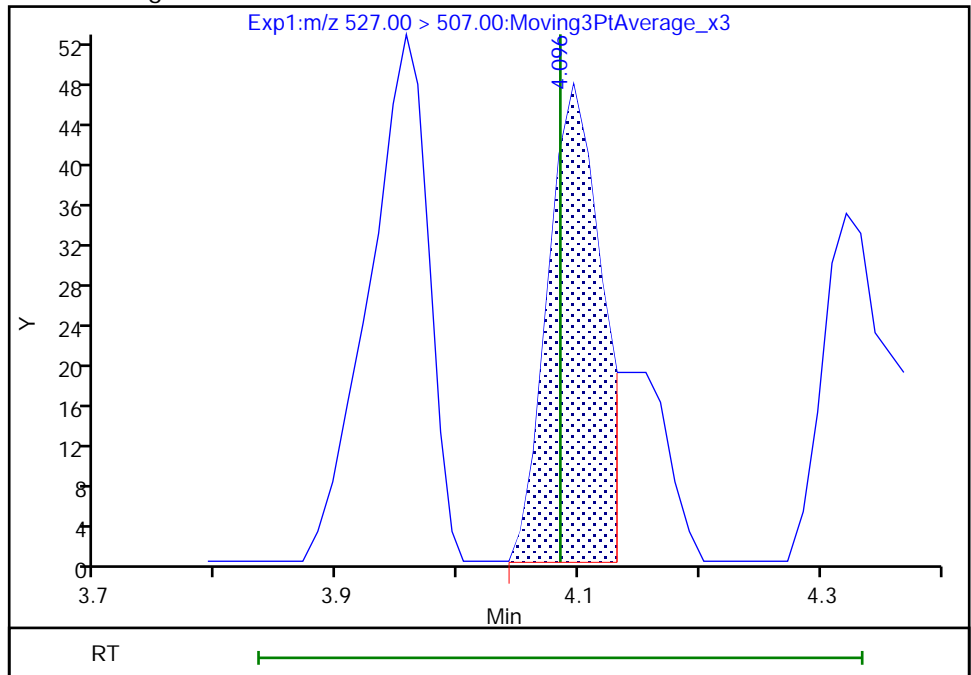
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 144
Amount: 0.000376
Amount Units: ng/ml



Reviewer: khanphomeea, 27-Jan-2023 10:08:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-187441/11
 Matrix: Water Lab File ID: PA230111ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/11/2023 18:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187441 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
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.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-187441/11
 Matrix: Water Lab File ID: PA230111ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 01/11/2023 18:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187441 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	102		50-150
STL00990	13C4 PFOA	102		50-150
STL00995	13C5 PFNA	105		50-150
STL00992	13C4 PFBA	96		50-150
STL00993	13C2 PFHxA	98		50-150
STL00996	13C2 PFDA	93		50-150
STL00997	13C2 PFUnA	101		50-150
STL00994	18O2 PFHxS	101		50-150
STL00998	13C2 PFDoA	97		50-150
STL00991	13C4 PFOS	105		50-150
STL01056	13C8 FOSA	94		50-150
STL01893	13C5 PFPeA	106		50-150
STL02116	13C2 PFTeDA	100		50-150
STL02118	d3-NMeFOSAA	96		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	102		50-150
STL02337	13C3 PFBS	101		50-150
STL02280	M2-8:2 FTS	106		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 11-Jan-2023 18:32:02 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0053969-011 Plate: 1 Rack: 1
 Operator ID: TAIBURLC812\5500 QQQ Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 13-Jan-2023 13:25:58 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1603

First Level Reviewer: SJ4N Date: 13-Jan-2023 13:26:18

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.086	2.094	-0.008	0.604	2178409	1.20	96.0	14312	
2 Perfluorobutanoic acid	212.90 > 169.00	2.147	2.094	0.053	1.029	57941	-0.008302		2.6	
D 3 13C5 PFPeA	267.90 > 223.00	2.398	2.370	0.028	0.694	1953010	1.33	106	7068	
4 Perfluoropentanoic acid	262.90 > 219.00	2.329	2.370	-0.041	0.972	1662	0.000929		0.1	
D 47 13C3 PFBS	301.90 > 80.00	2.411	2.384	0.027	0.698	1895278	1.18	101	246225	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.000	3136	0.001795	Target=2.10	5.4	RM
	298.90 > 99.00	2.398	2.384	0.014	0.994	993	3.16(1.05-3.15)		0.7	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.706	2.669	0.037	1.000	325	0.000906		7.3	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.706	2.669	0.037	0.783	141479	1.09	93.0	195	
D 7 13C2 PFHxA	315.00 > 270.00	2.731	2.694	0.037	0.791	1865894	1.22	97.9	8830	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.844	2.806	0.038	1.000	255	0.001036		3.4	
D 64 13C3 HFPO-DA	287.00 > 169.00	2.844	2.806	0.038	0.823	307736	1.17	93.2	4903	
D 11 18O2 PFHxS	403.00 > 84.00	3.093	3.069	0.024	0.895	1403539	1.20	101	5832	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.093	3.069	0.024	1.000	6190	0.004751	Target=3.18	24.0		M
399.00 > 99.00	3.093	3.069	0.024	1.000	1759		3.52(1.59-4.77)	3.4		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.104	3.069	0.035	0.898	1949461	1.28		102	7004	
77 DONA										M
377.00 > 251.00	3.138	3.104	0.034	0.834	3024	0.000703	Target=2.96	3.1		
377.00 > 85.00	3.138	3.104	0.034	0.834	1167		2.59(1.48-4.44)	2.5		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.437	3.417	0.020	0.995	224348	1.21		102	874	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.455	3.417	0.038	1.005	762	0.001761			1.4	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.426	0.020	0.997	2066799	1.28		102	8112	
* 62 13C2 PFOA										
415.00 > 370.00	3.455	3.426	0.029		1973325	1.25			6322	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.754	0.010	1.089	895929	1.26		105	6684	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.773	3.754	0.019	1.003	2928	0.003215	Target=4.23	3.3		M
499.00 > 99.00	3.754	3.754	0.0	0.997	827		3.54(2.11-6.34)	2.2		M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.774	0.009	1.095	2058161	1.31		105	11440	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.935	3.922	0.013	1.045	1514	0.000696		6.1		M
68 Perfluorononanesulfonic acid										RM
549.00 > 80.00	4.052	4.043	0.009	1.077	915	0.001210	Target=2.37	10.0		RM
549.00 > 99.00	4.052	4.043	0.009	1.077	1204		0.76(1.18-3.55)	7.4		M
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.182	1881797	1.16		93.2	8384	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.096	4.085	0.011	1.186	295110	1.27		106	1350	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.096	4.085	0.011	1.000	594	0.001329		7.3		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.156	4.144	0.012	1.000	3393	0.002741		6.1		M
D 21 13C8 FOSA										
506.00 > 78.00	4.156	4.144	0.012	1.203	1538648	1.17		93.7	4264	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.226	4.226	0.0	1.223	379483	1.19		95.5	3862	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.237	4.226	0.011	1.003	6631	0.0242		21.9		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.334	4.322	0.012	1.152	685	0.001215	Target=2.45	8.8		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.358	4.346	0.012	1.261	1760304	1.26		101	6171	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.358	4.346	0.012	1.000	3710	0.002413	Target=10.33	1.0		M
563.00 > 169.00	4.358	4.346	0.012	1.000	356		10.42(5.17-15.50)	4.3		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.370	4.358	0.012	1.000	8942	0.0318		42.0		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.370	4.358	0.012	1.265	378255	1.24		99.1	759	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.183	3031	0.000901		7.6		
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.594	4.584	0.010	1.000	3702	0.002673	Target=8.10	0.5		
613.00 > 169.00	4.594	4.584	0.010	1.000	498		7.43(4.05-12.15)	5.2		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.594	4.584	0.010	1.330	1700099	1.22		97.2	5762	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.124	382	0.001351		9.0		
75 Perfluorododecanesulfonic acid (M
699.00 > 80.00	4.780	4.770	0.010	1.270	259	0.001131	Target=0.51	6.5		M
699.00 > 99.00	4.770	4.770	0.0	1.267	425		0.61(0.26-0.77)	13.1		M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.047	3735	0.002701	Target=6.06	0.4		
663.00 > 169.00	4.808	4.799	0.009	1.047	651		5.74(3.03-9.09)	6.5		
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.008	4.998	0.010	1.000	481	0.003205	Target=0.83	10.4		
713.00 > 219.00	4.998	4.998	0.0	0.998	394		1.22(0.42-1.25)	7.9		
D 43 13C2 PFTeDA										
715.00 > 670.00	5.008	4.998	0.010	1.450	1502305	1.25		99.9	5832	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.362	5.362	0.0	1.000	23587	0.002153	Target=6.74	3.4		
813.00 > 169.00	5.362	5.362	0.0	1.000	3628		6.50(3.37-10.11)	48.7		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.362	5.362	0.0	1.552	1801536	1.22		97.8	6208	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.711	0.009	1.067	10028	0.008603	Target=6.99	1.7		
913.00 > 169.00	5.720	5.711	0.009	1.067	1313		7.64(3.50-10.49)	23.1		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d

Injection Date: 11-Jan-2023 18:32:02

Instrument ID: LC812

Lims ID: ICB

Client ID:

Operator ID: TAIBURLC812\5500 QQQ

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

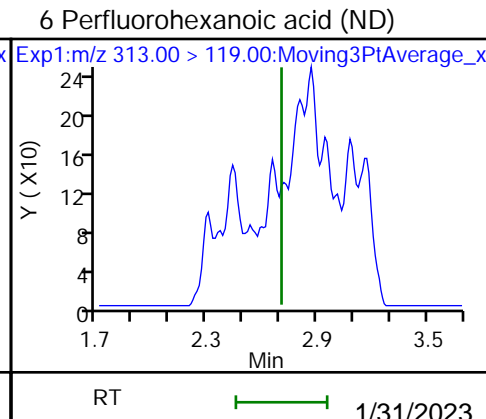
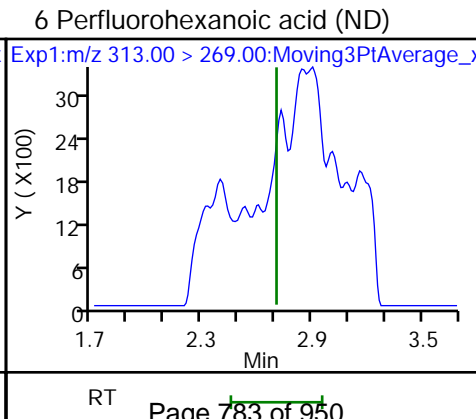
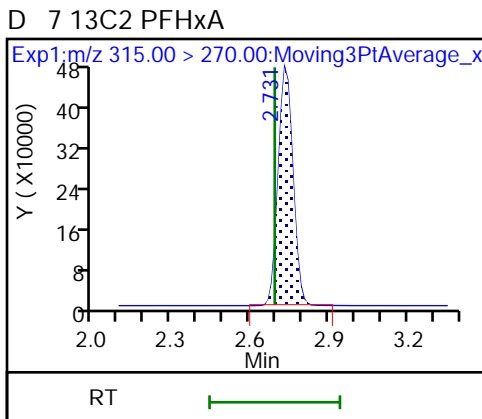
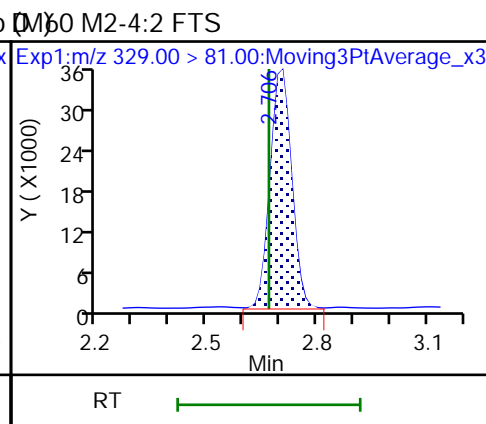
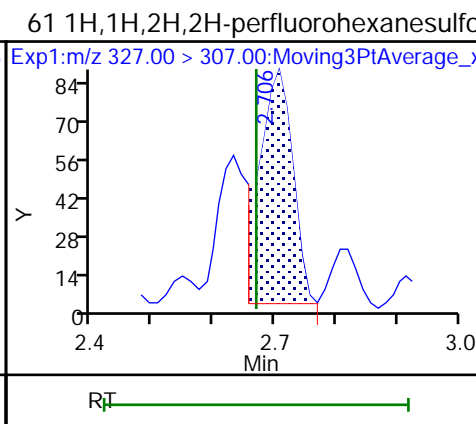
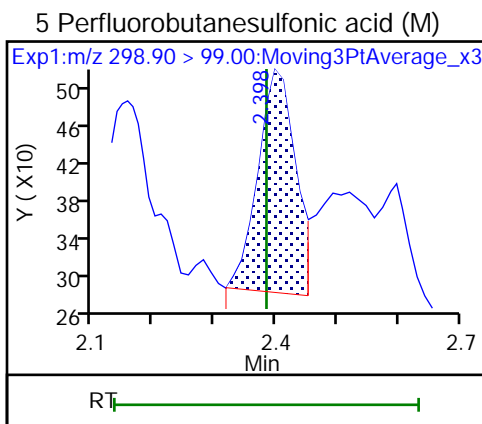
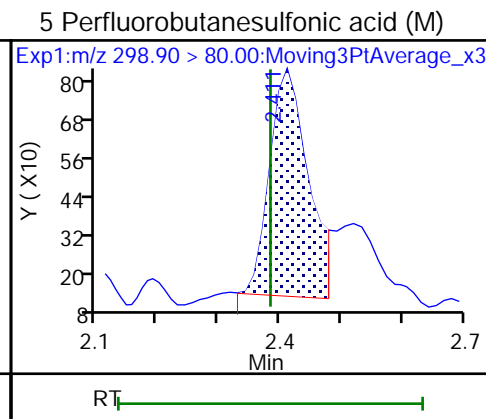
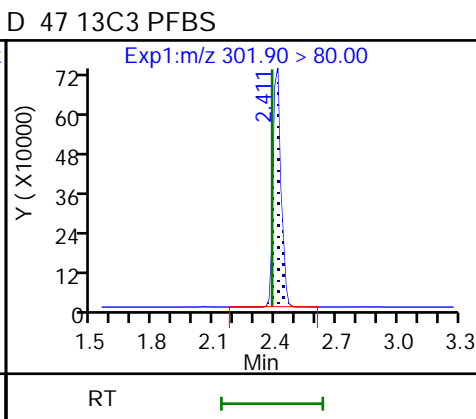
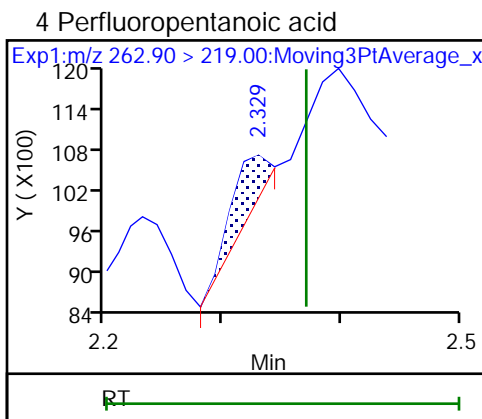
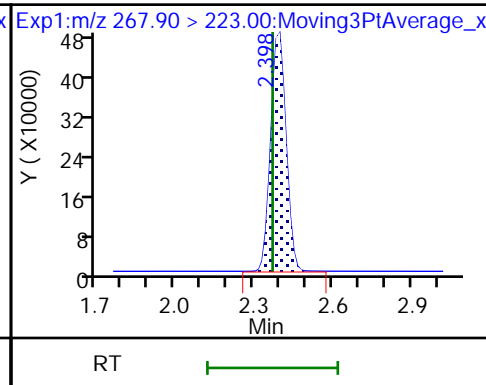
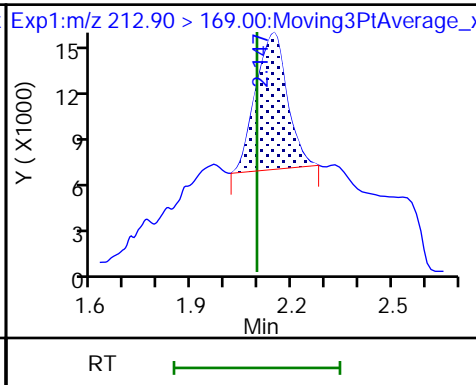
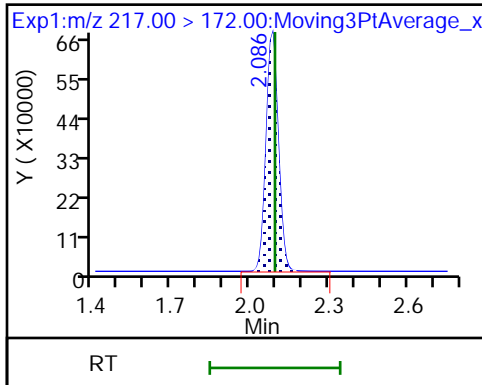
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

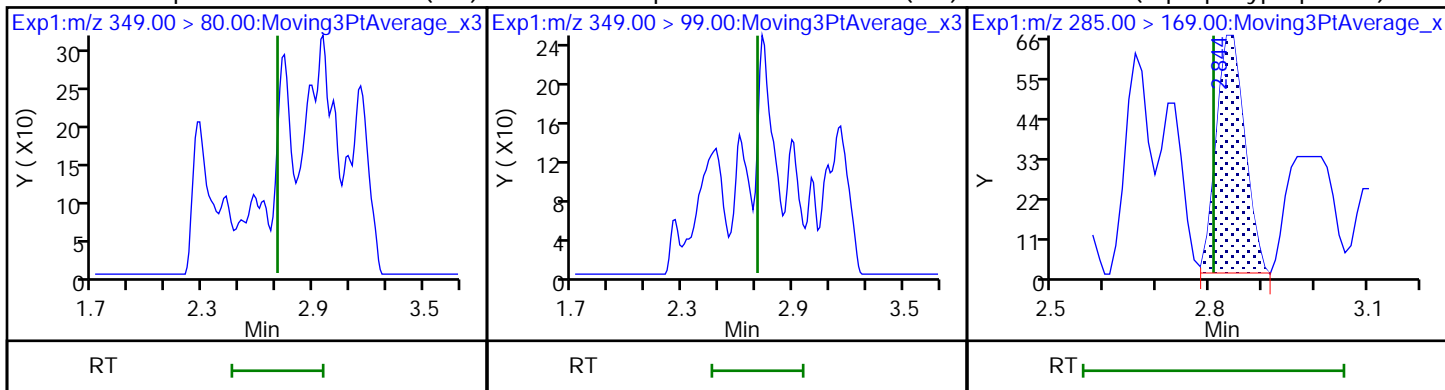
D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA



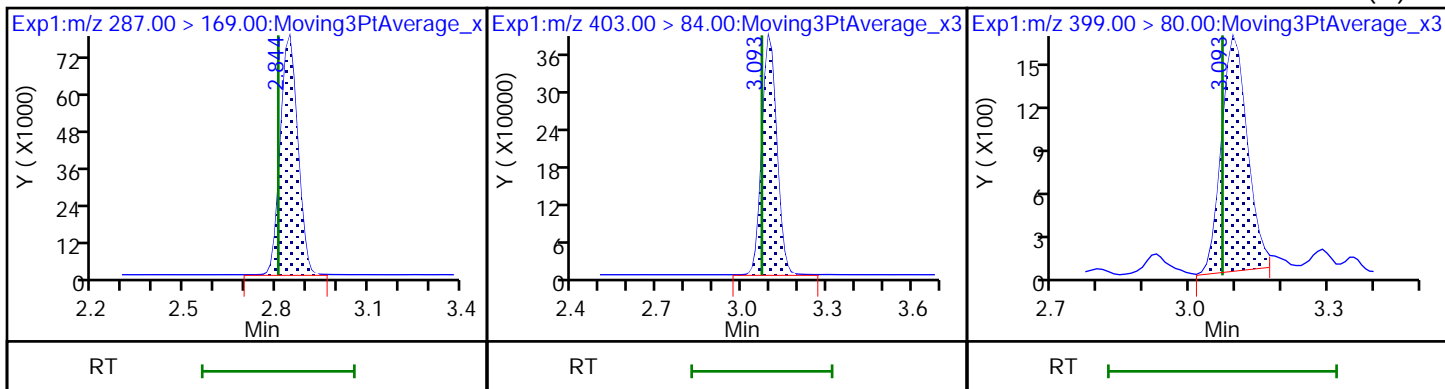
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

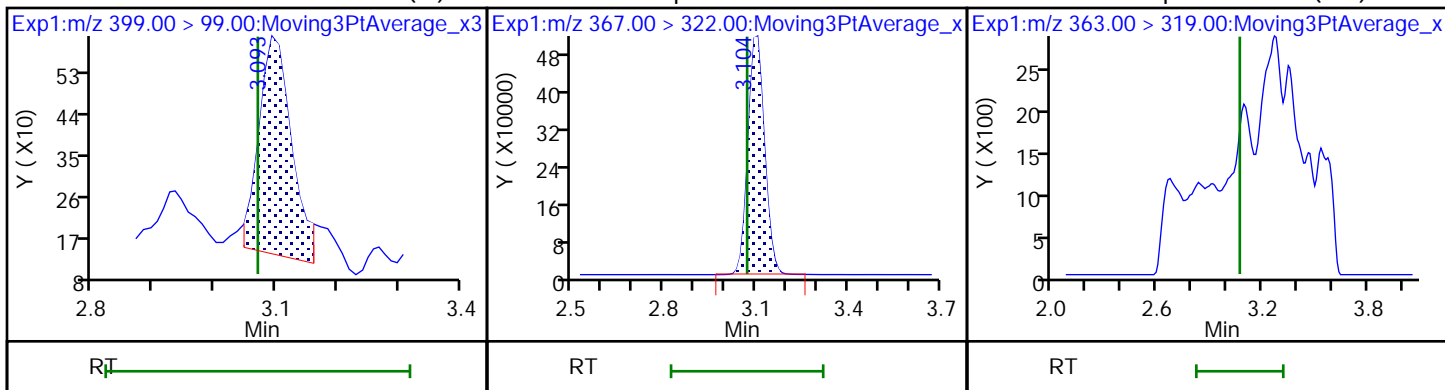
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

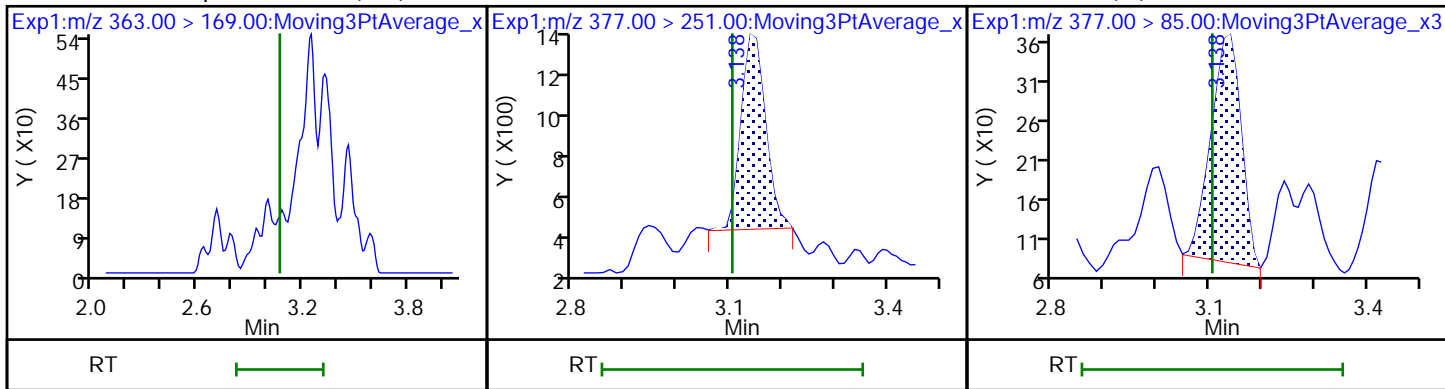
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

77 DONA

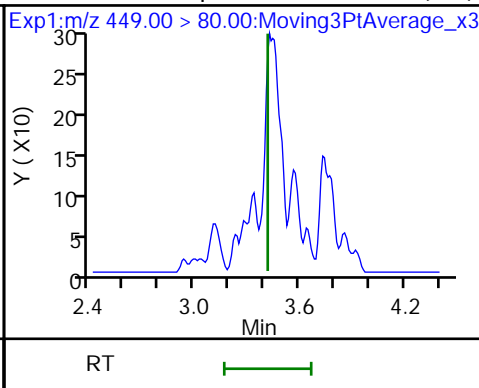
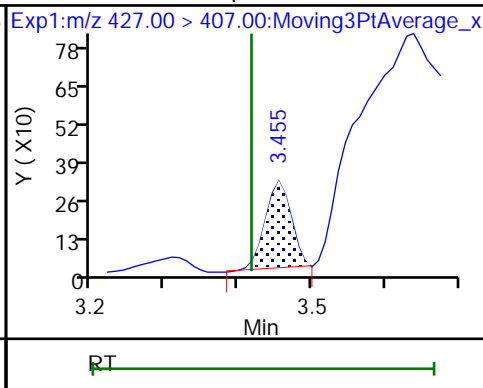
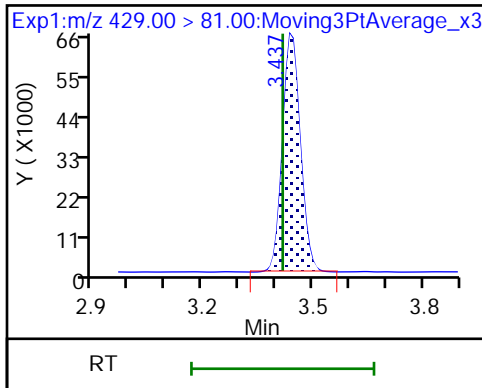
77 DONA (M)



D 12 M2-6:2 FTS

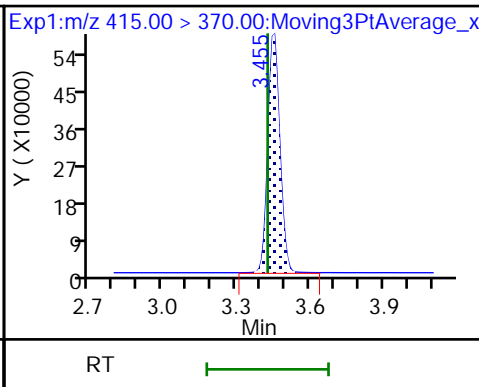
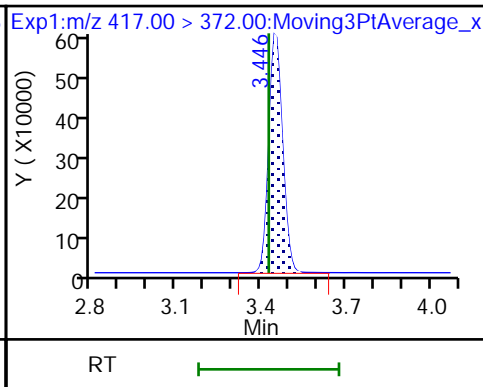
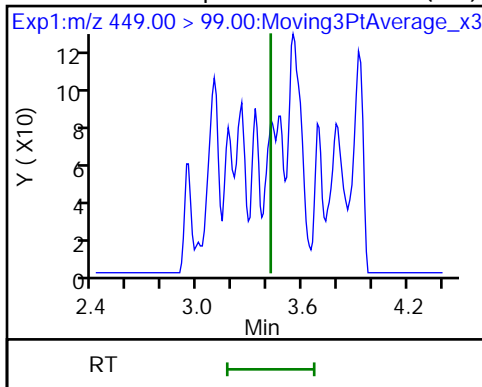
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

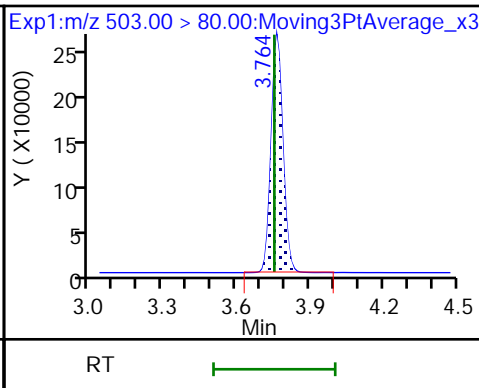
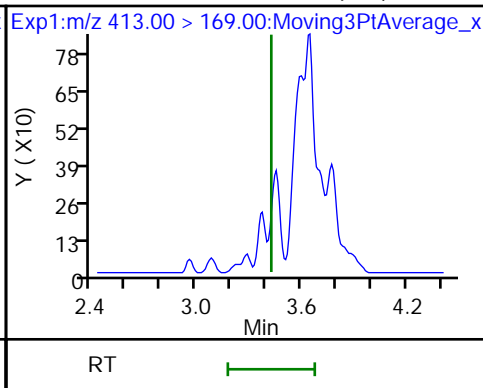
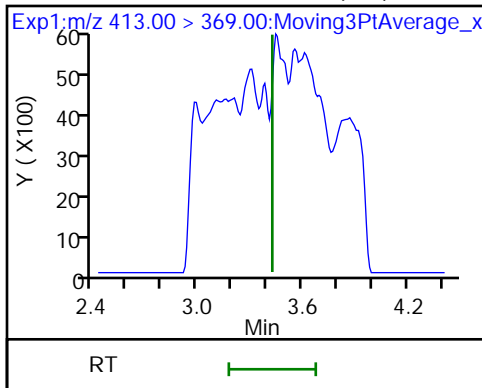
* 62 13C2 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

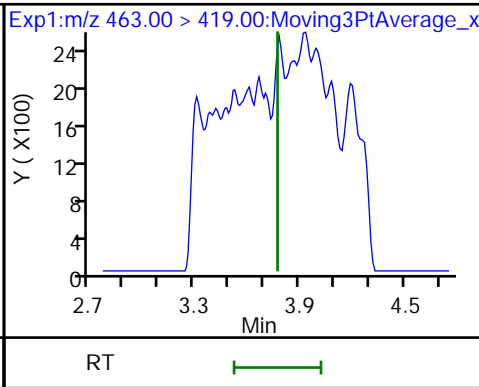
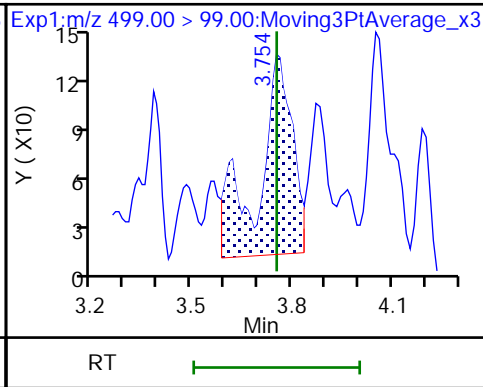
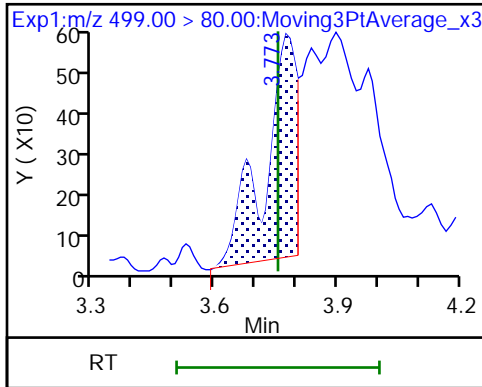
D 18 13C4 PFOS

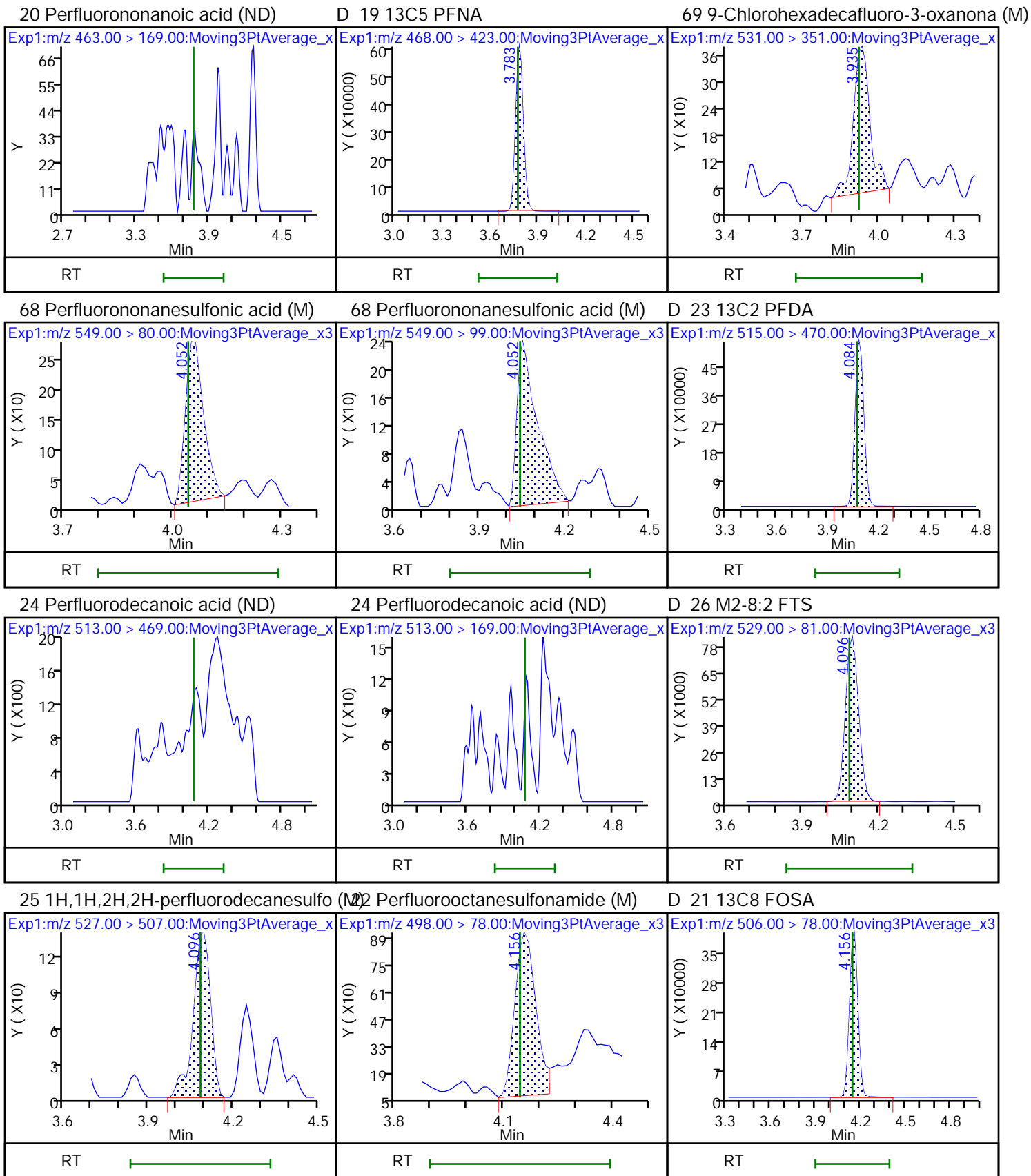


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

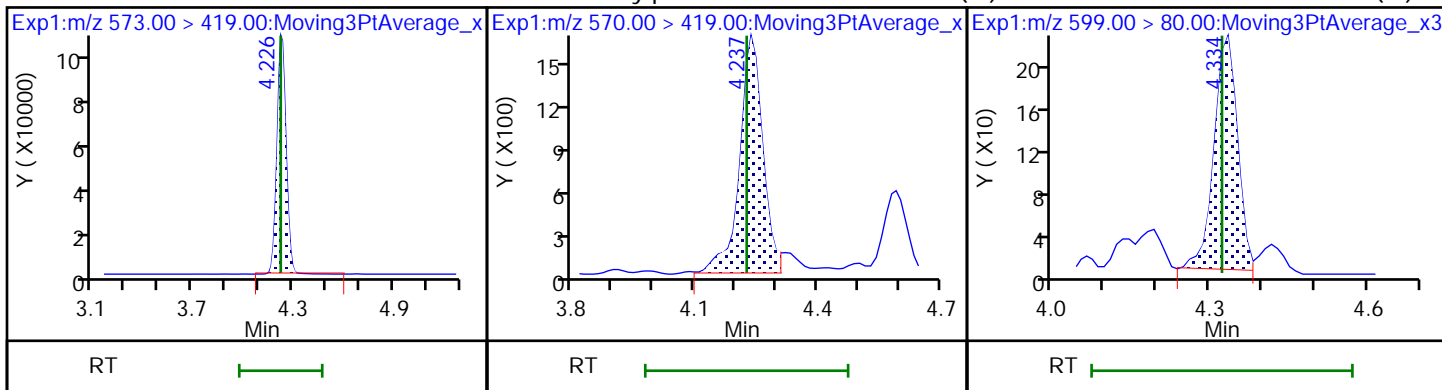
20 Perfluorononanoic acid (ND)





D 27 d3-NMeFOSAA

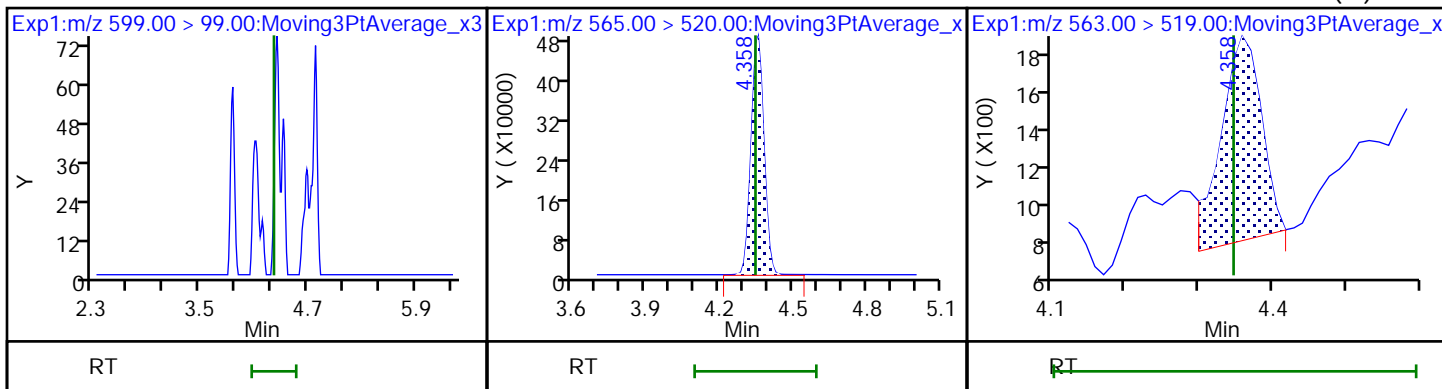
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid

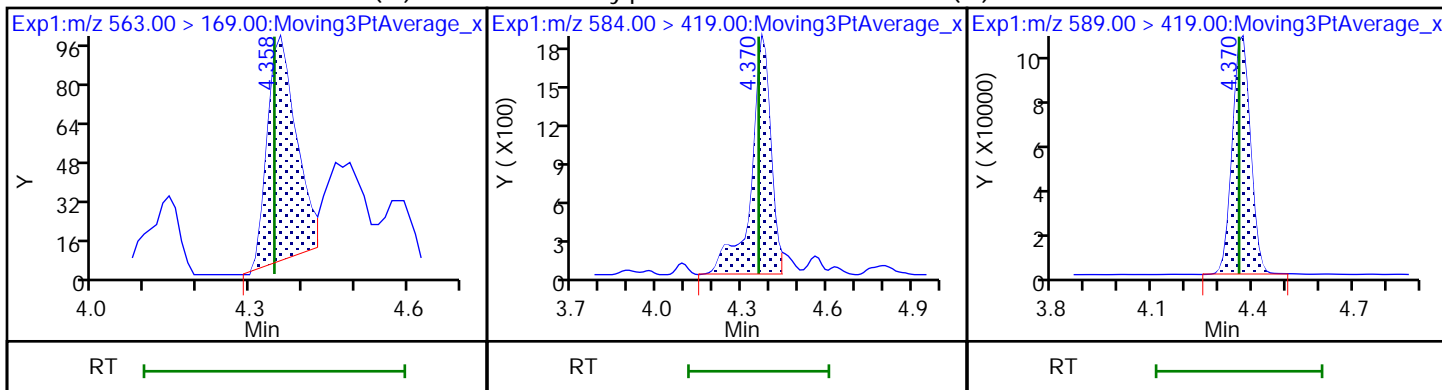
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

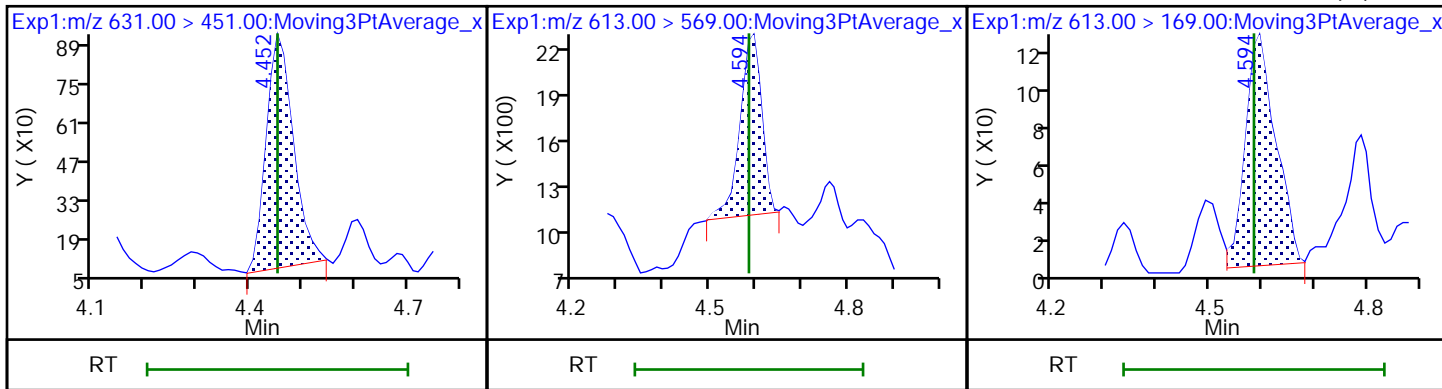
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

37 Perfluorododecanoic acid

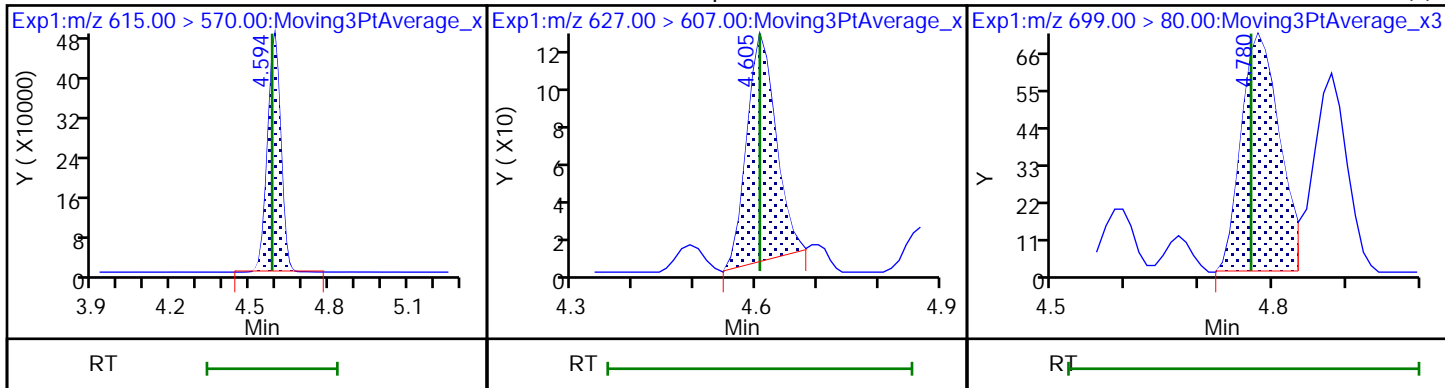
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

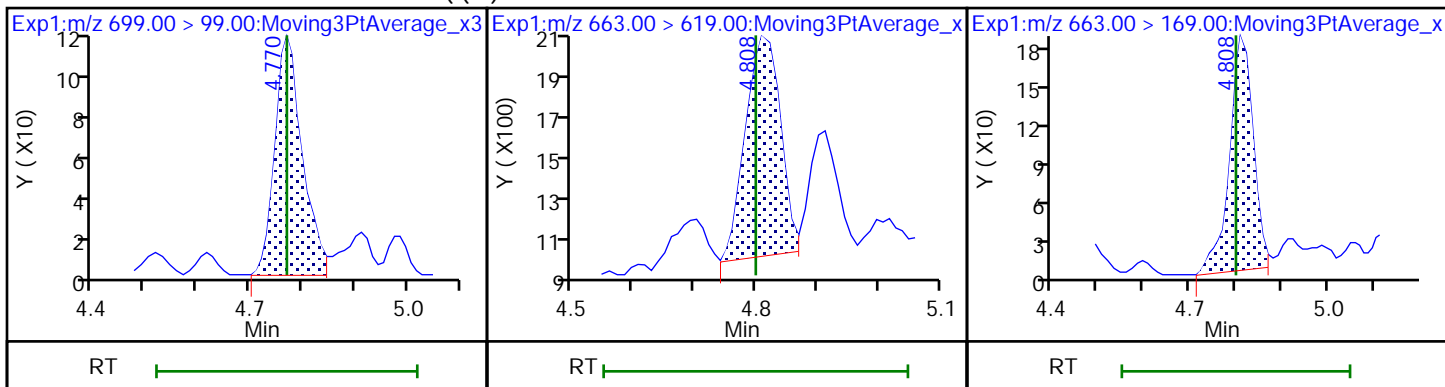
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid

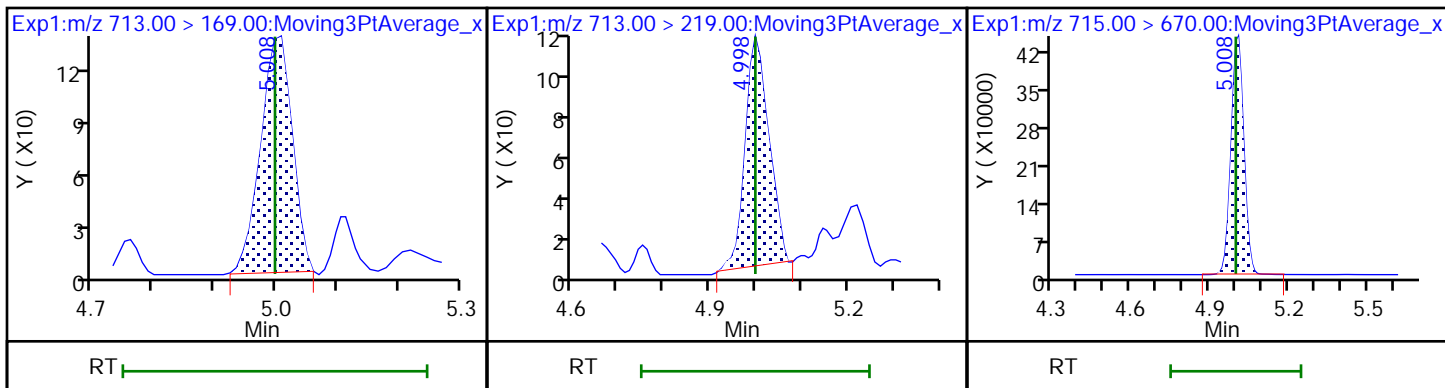
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

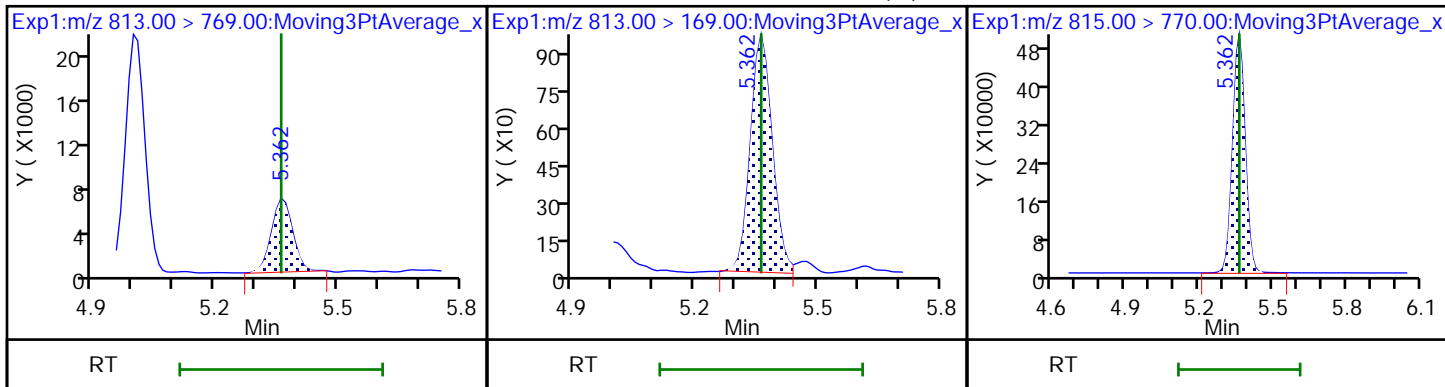
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

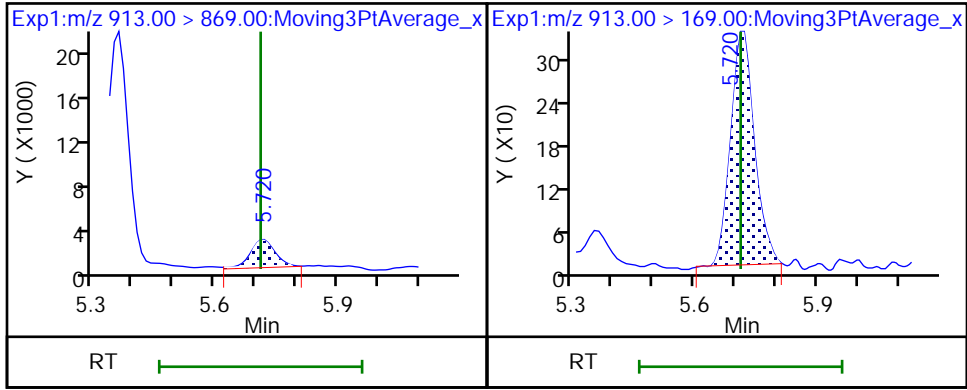
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



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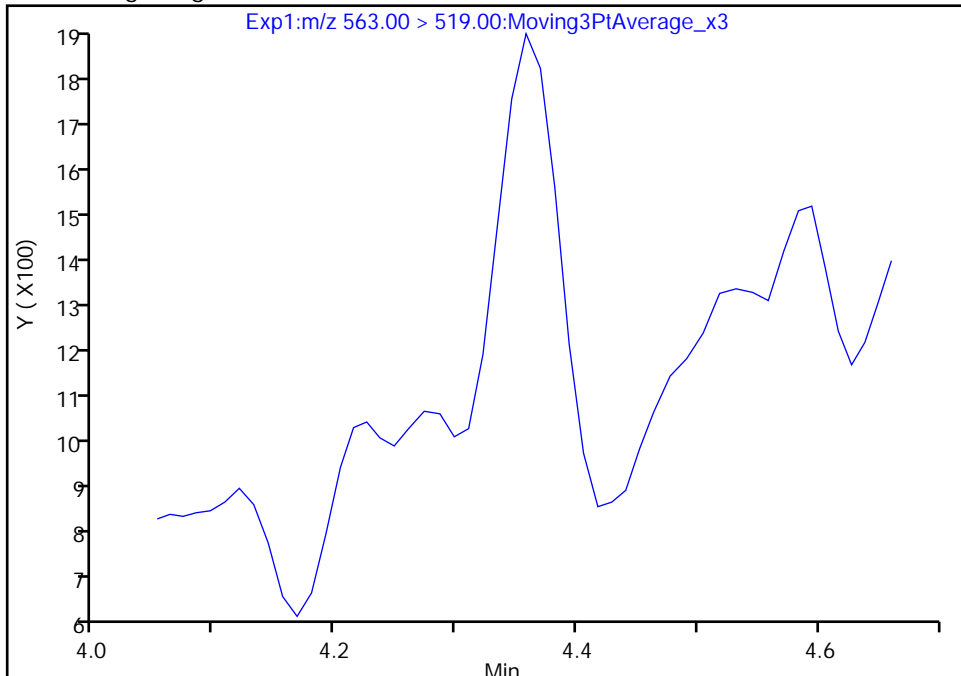
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

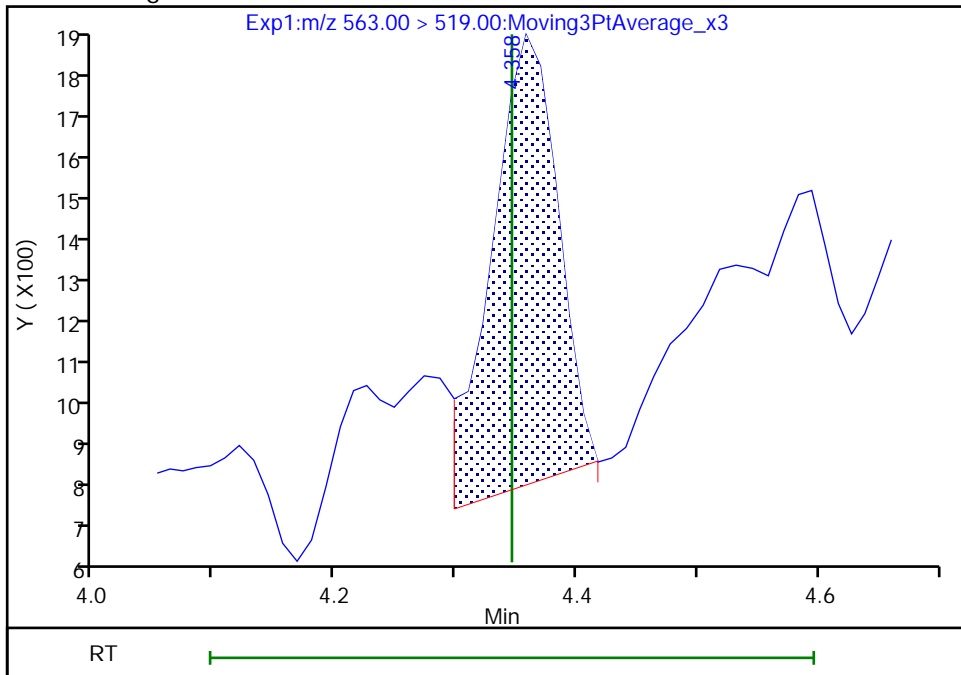
Not Detected
Expected RT: 4.35

Processing Integration Results



RT: 4.36
Area: 3710
Amount: 0.002413
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:24:43
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

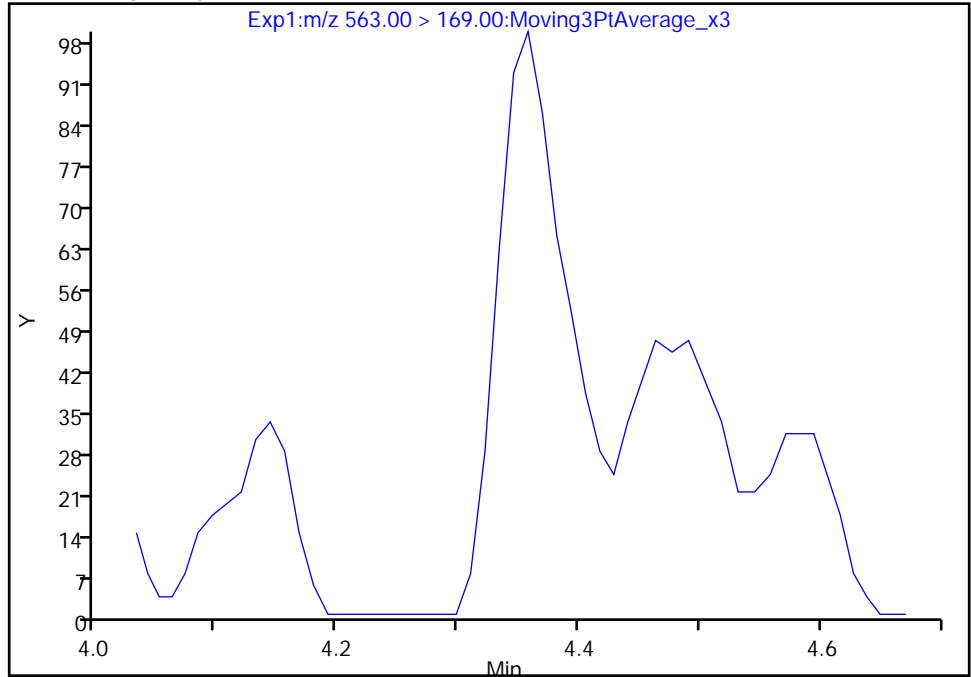
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

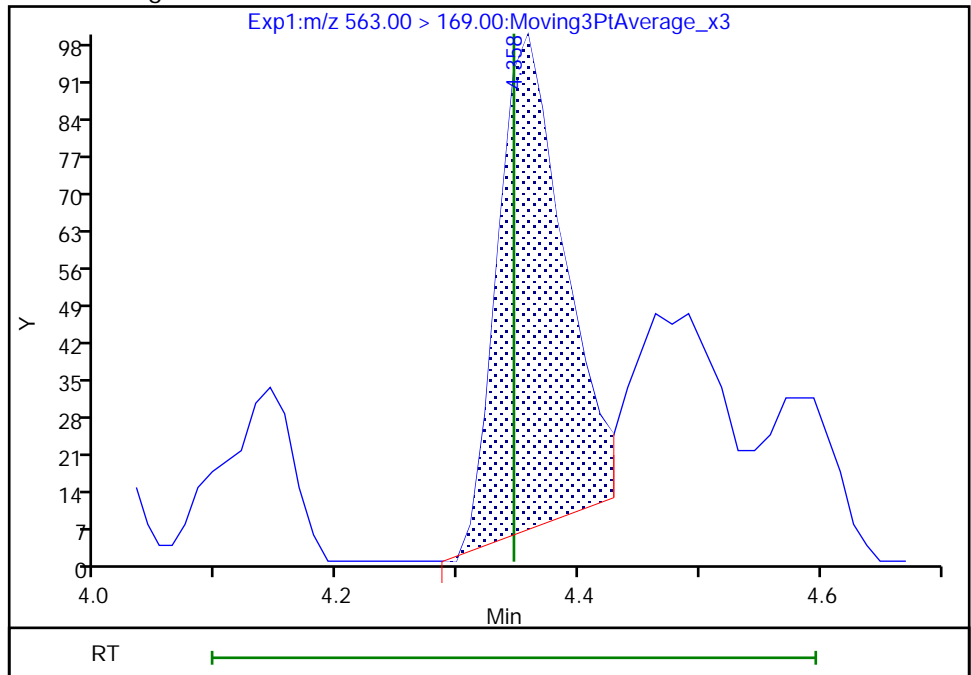
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 356
Amount: 0.002413
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:24:46

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

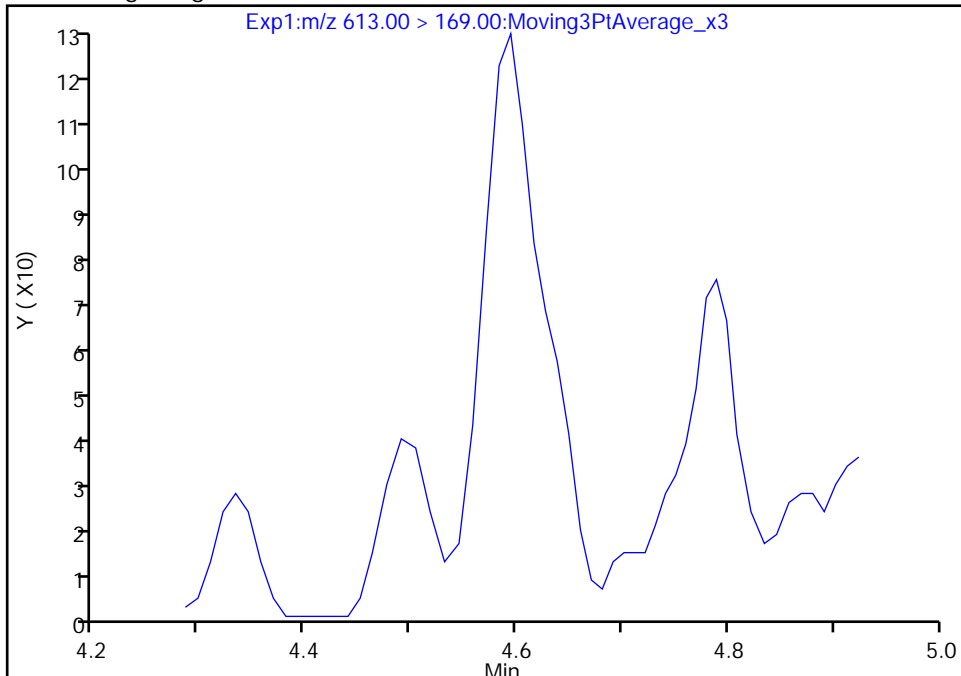
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

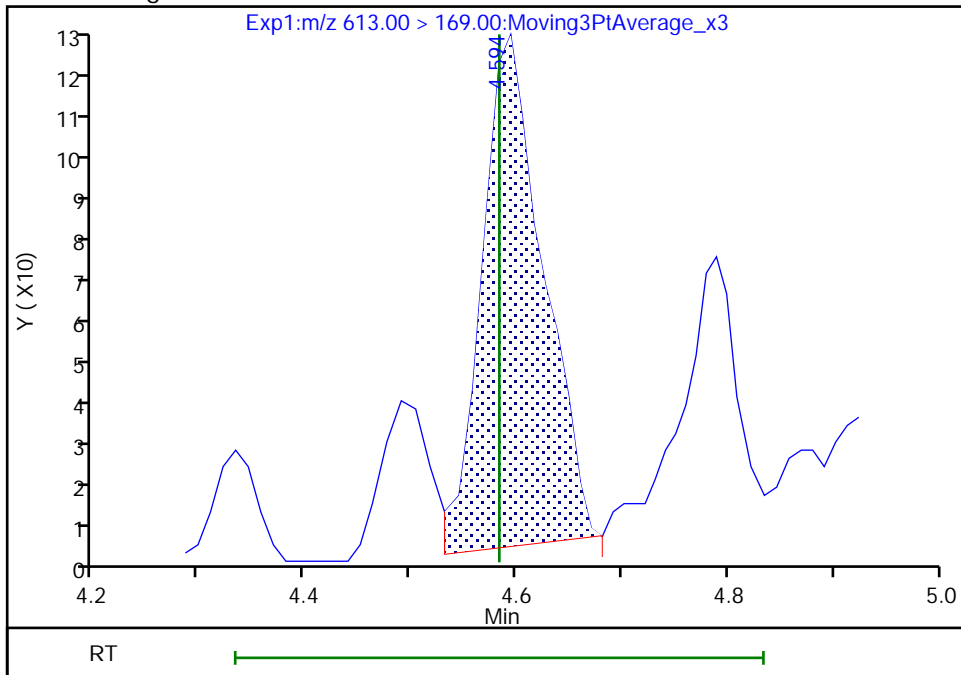
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 498
Amount: 0.002673
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:25:16
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

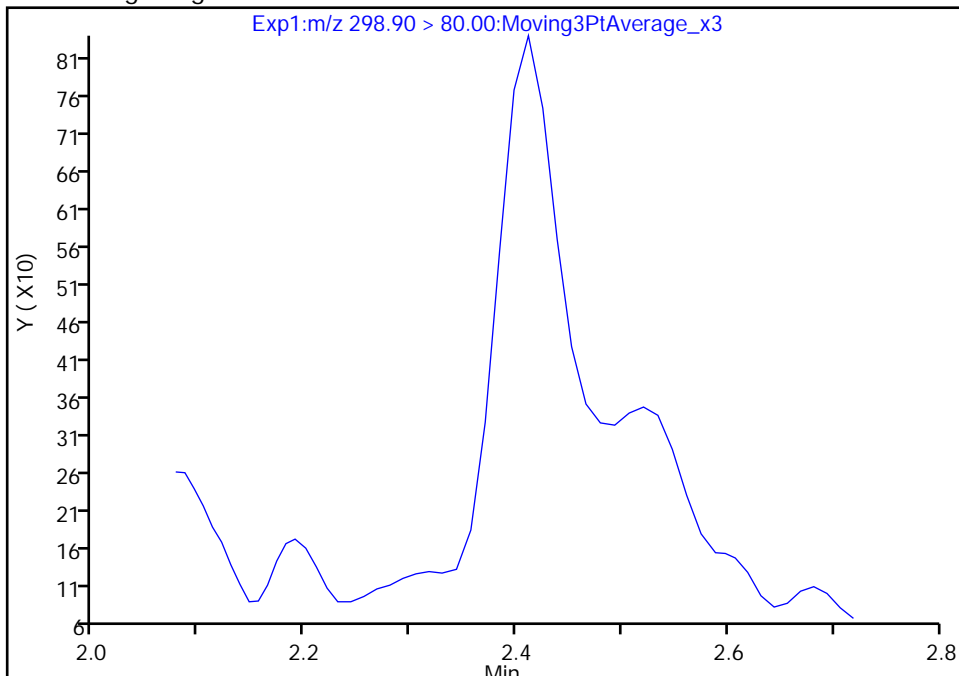
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

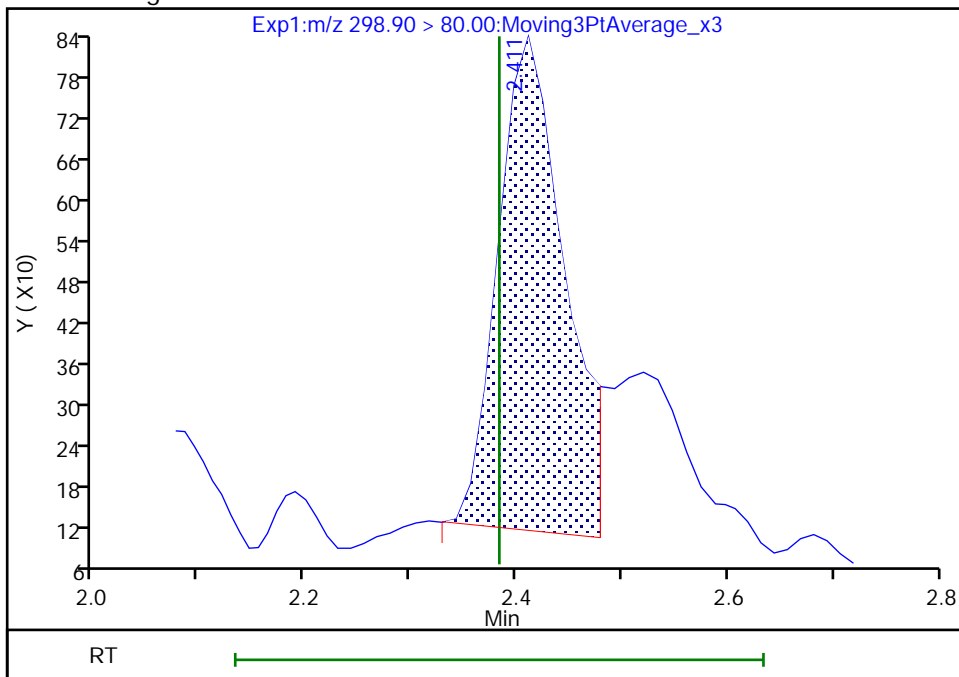
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 3136
Amount: 0.001795
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:21:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 793 of 950

Eurofins Burlington

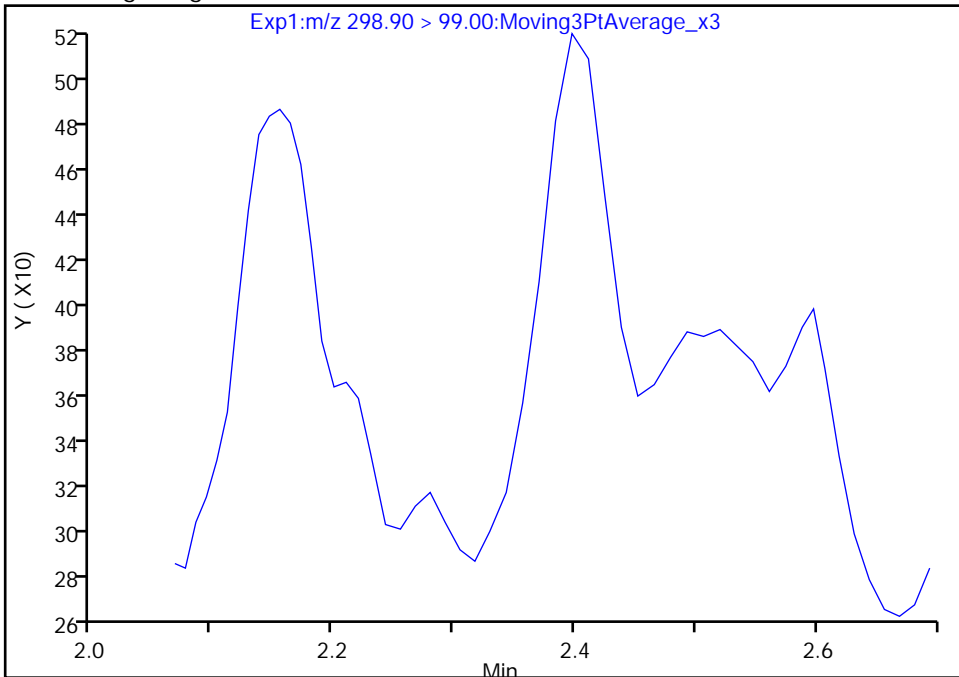
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

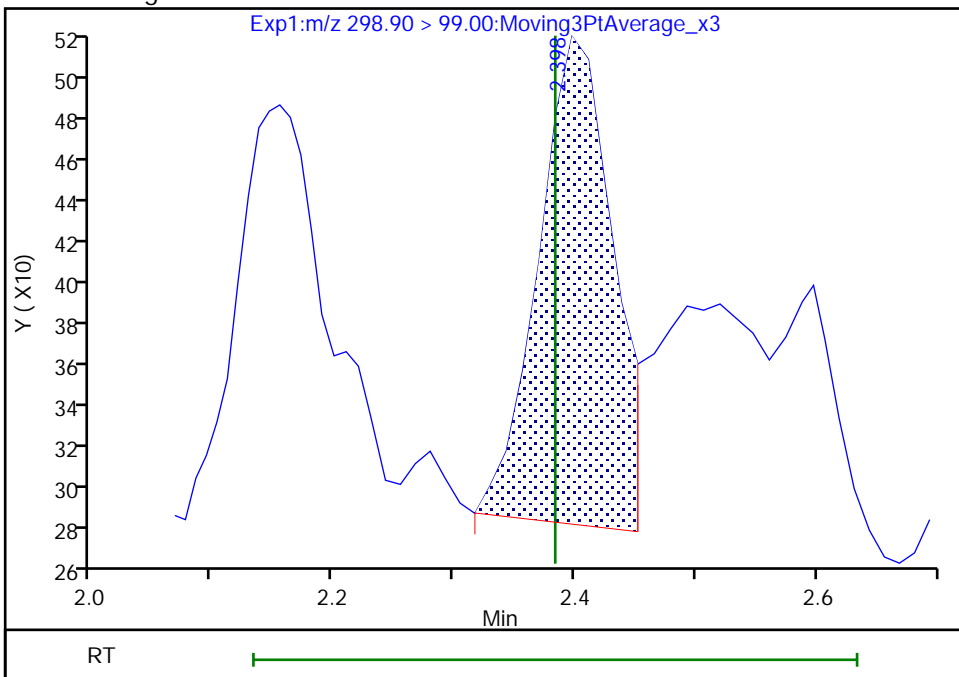
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 993
Amount: 0.001795
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:21:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

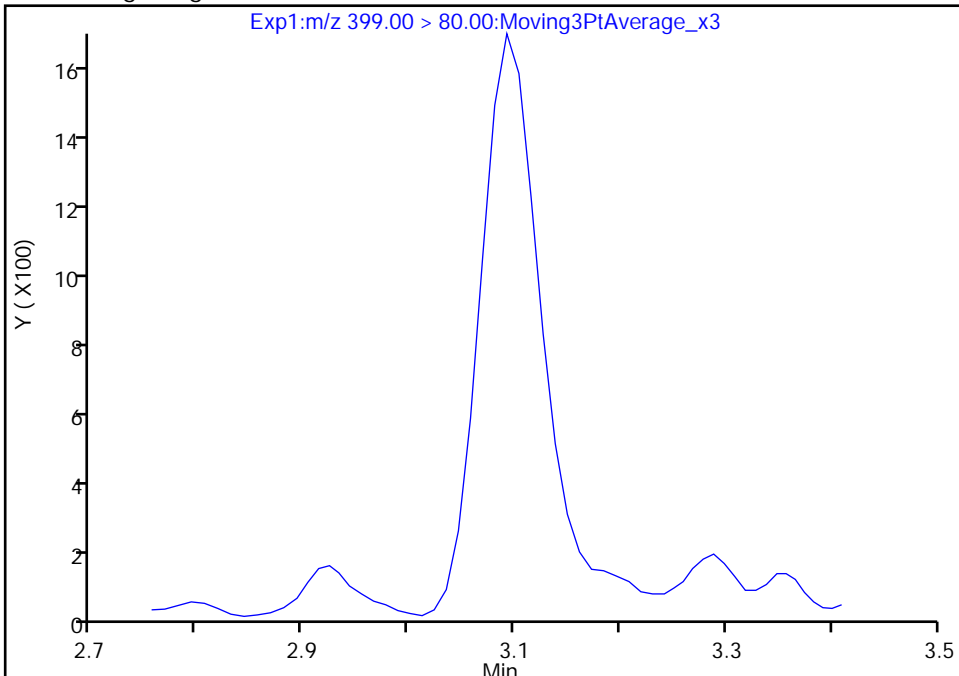
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

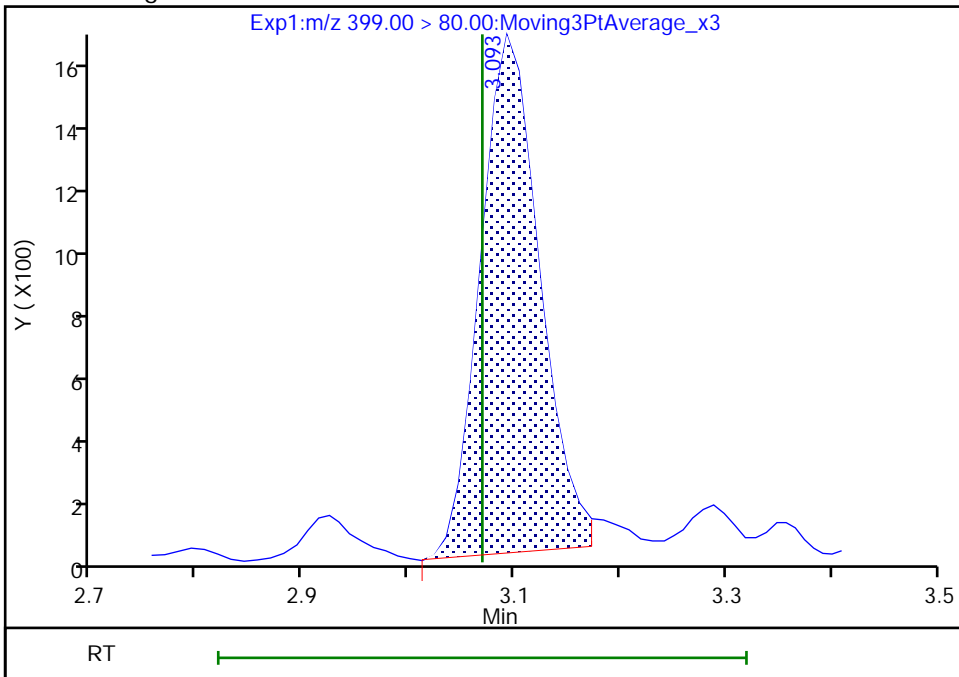
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 6190
Amount: 0.004751
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:21:55
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

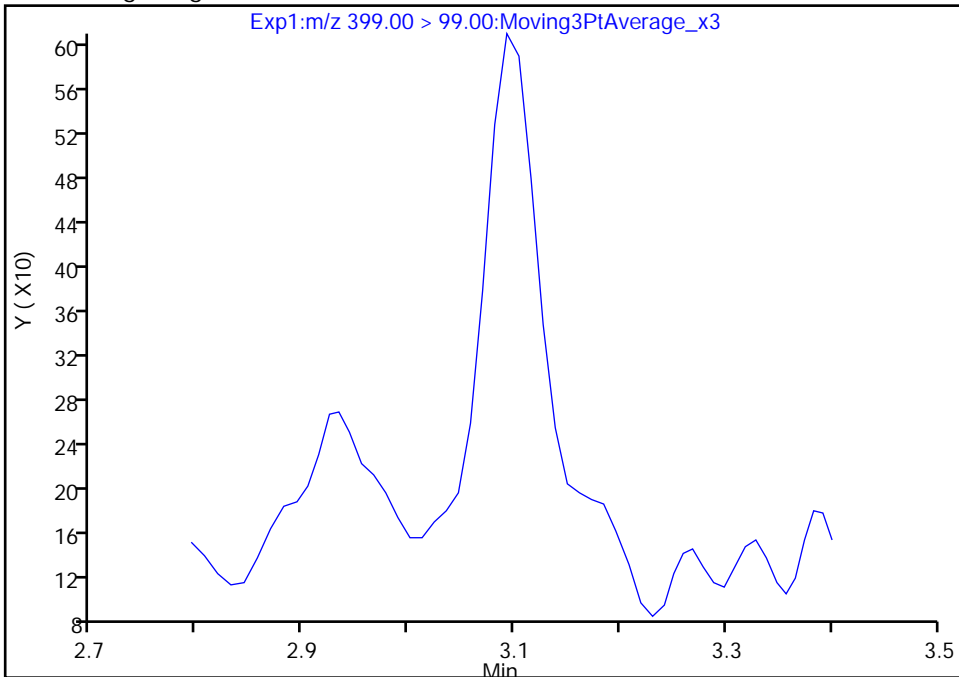
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

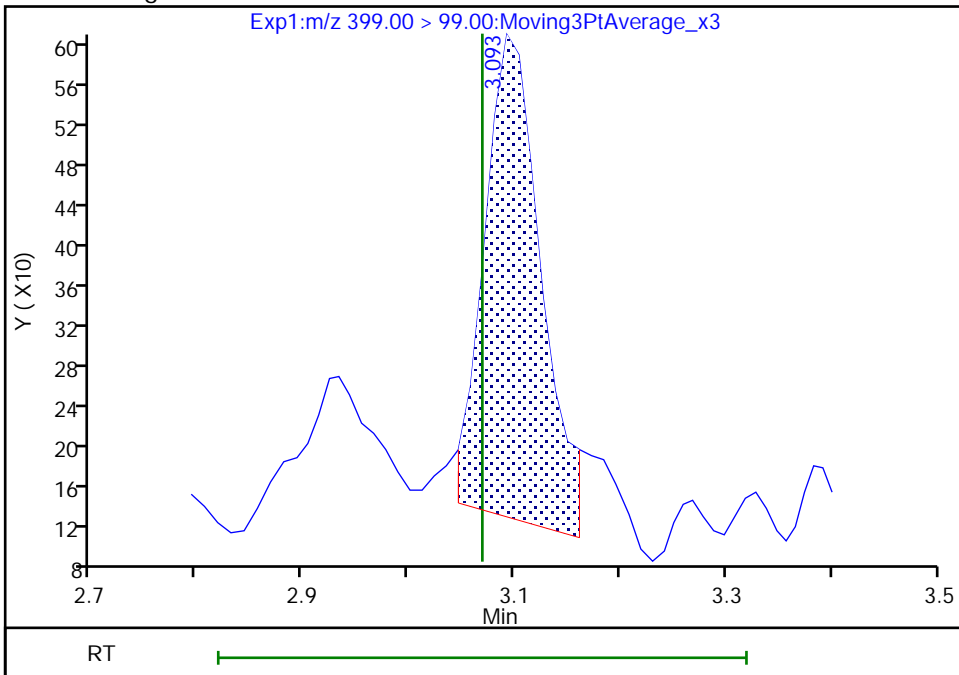
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 1759
Amount: 0.004751
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:21:59

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

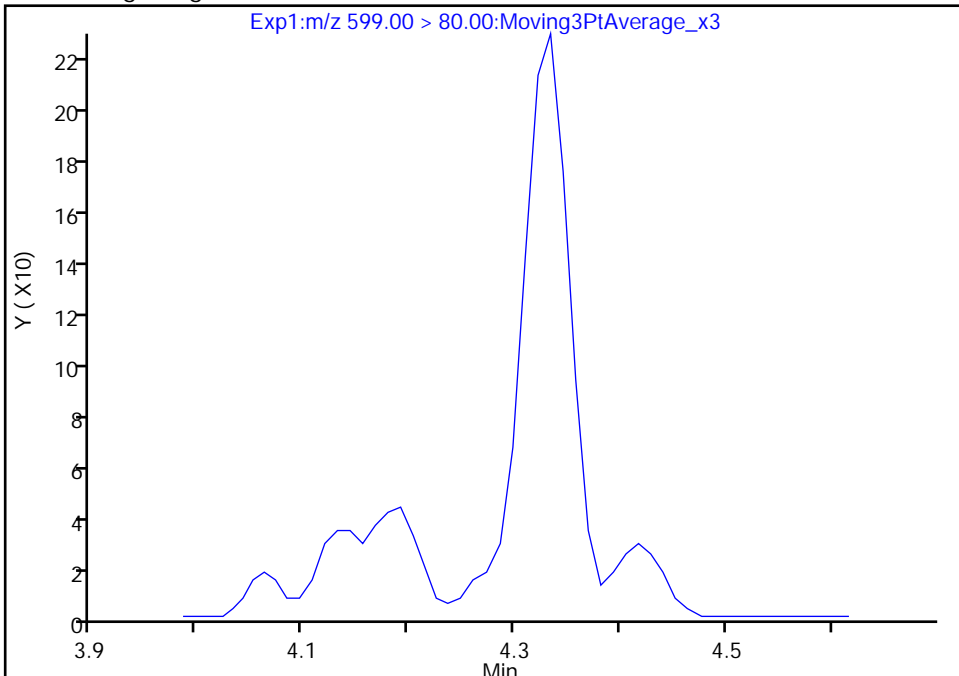
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

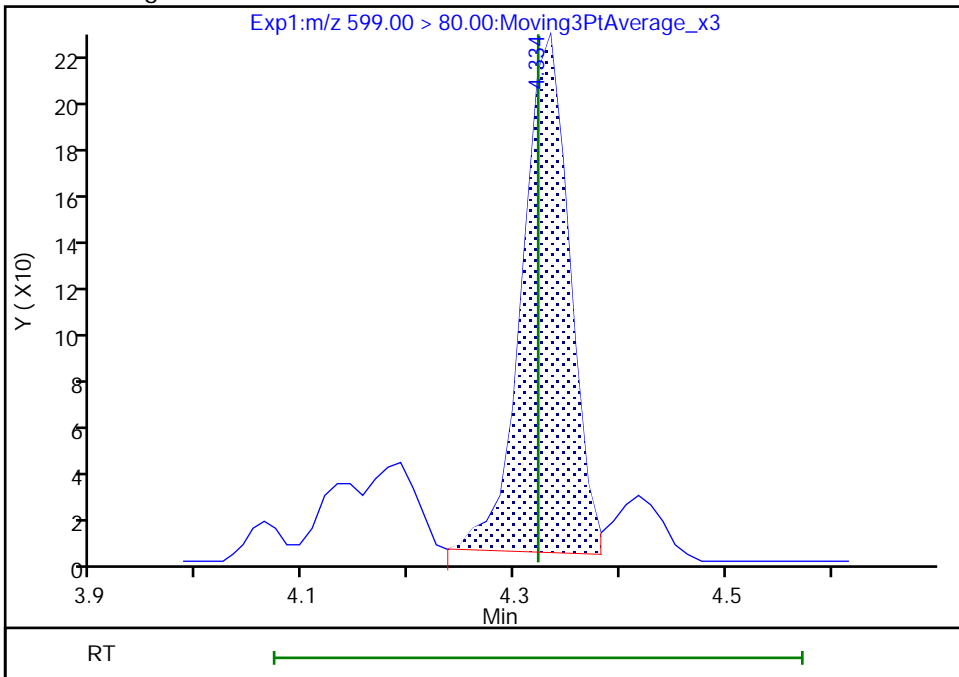
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.33
Area: 685
Amount: 0.001215
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:24:19
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

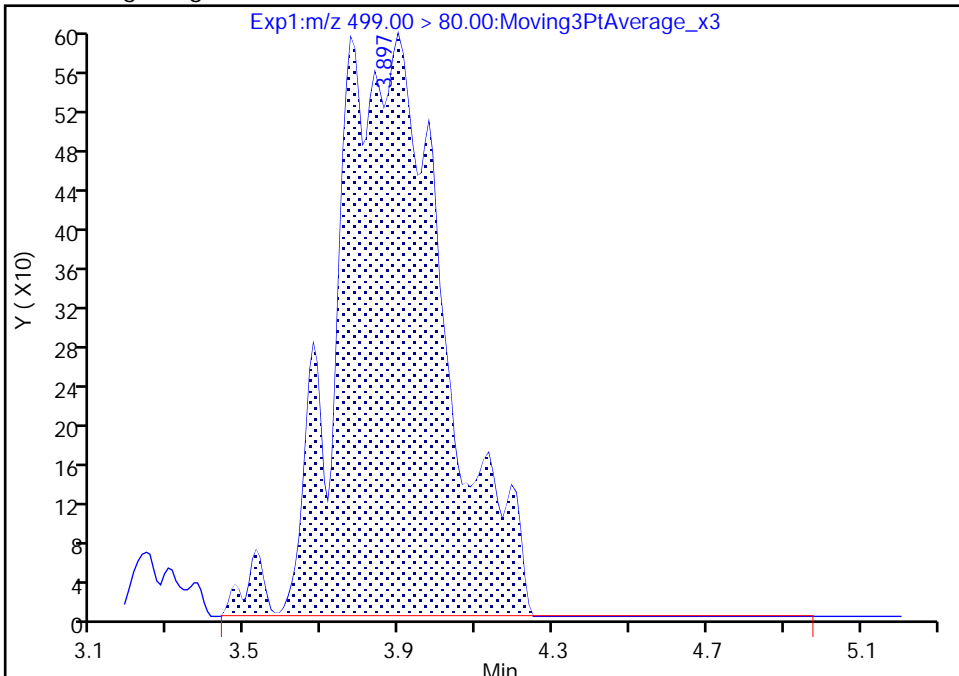
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

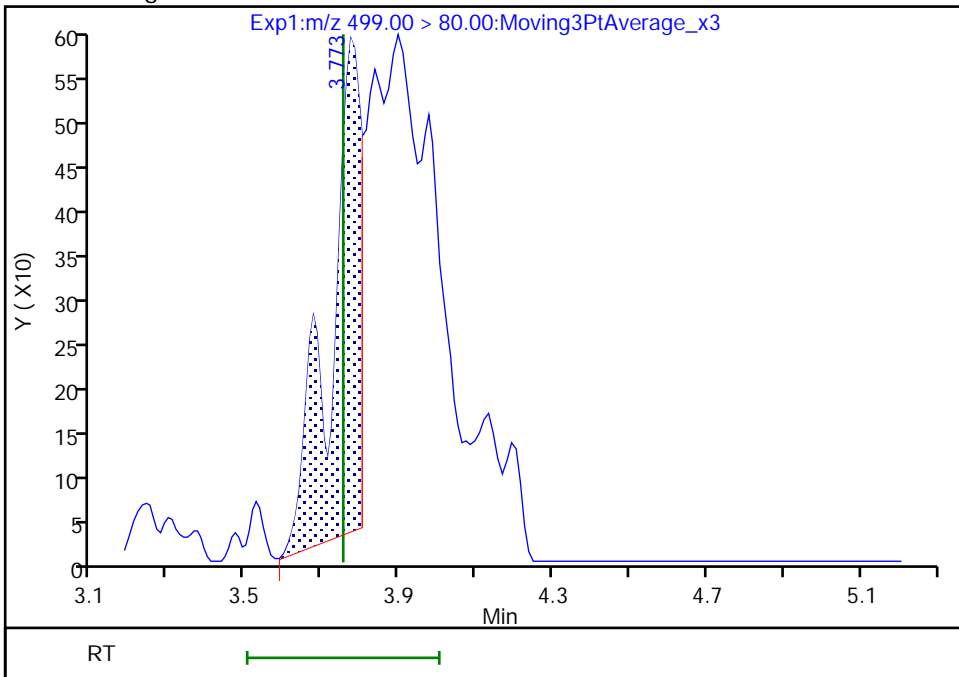
RT: 3.90
Area: 11600
Amount: 0.012736
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 2928
Amount: 0.003215
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:22:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 798 of 950

Eurofins Burlington

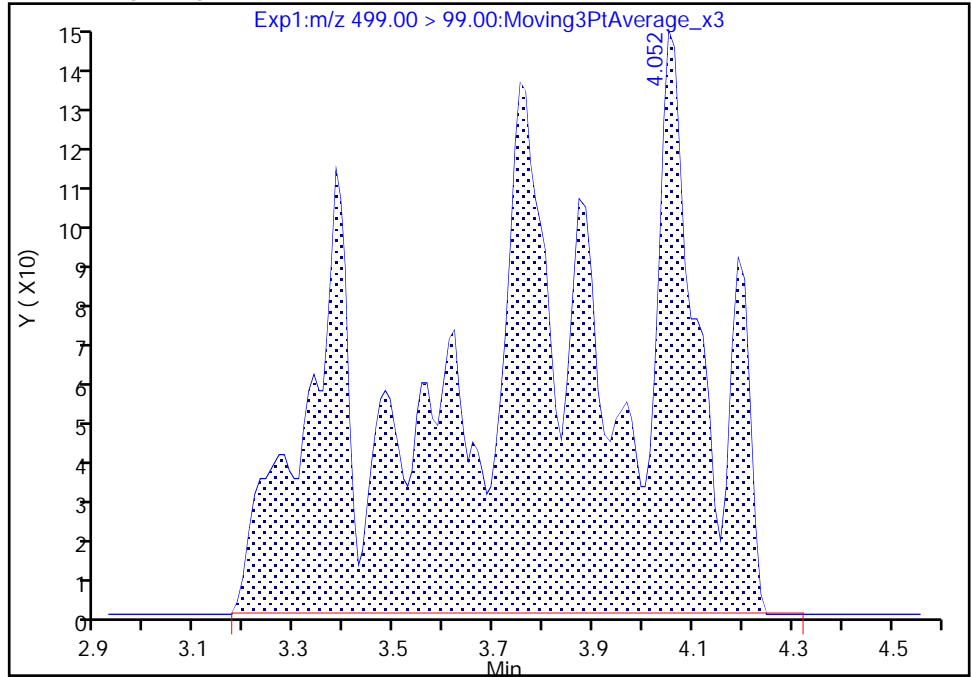
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Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

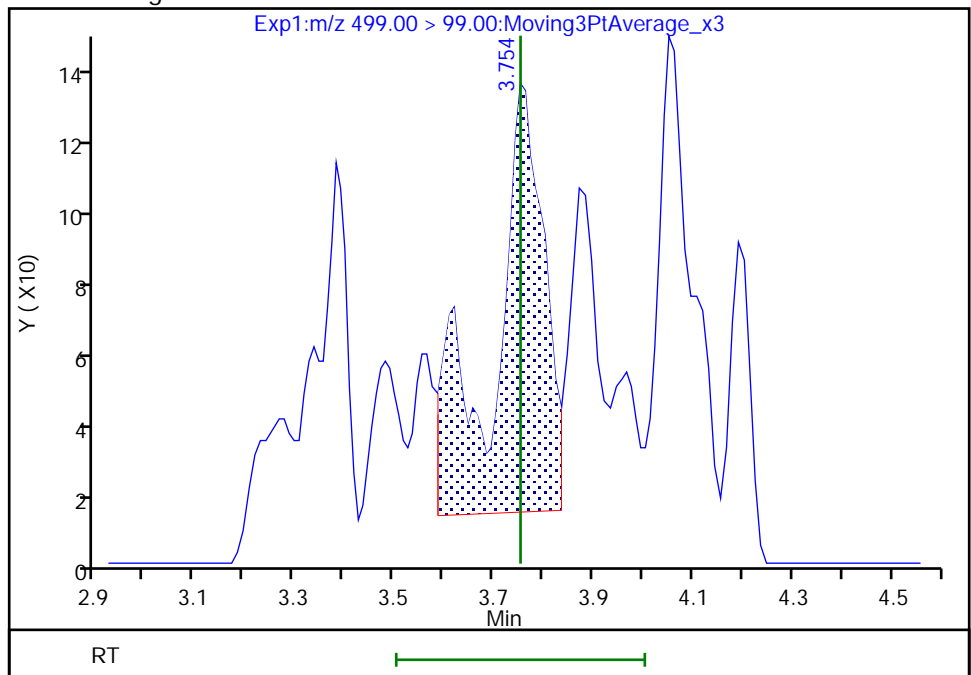
RT: 4.05
Area: 3712
Amount: 0.012736
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 827
Amount: 0.003215
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:22:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

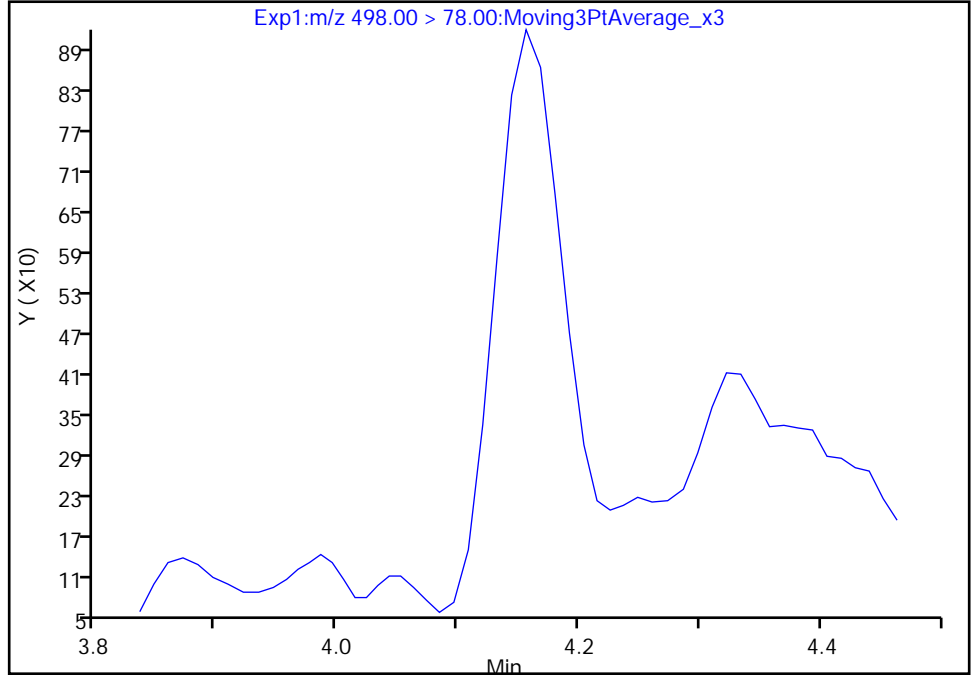
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

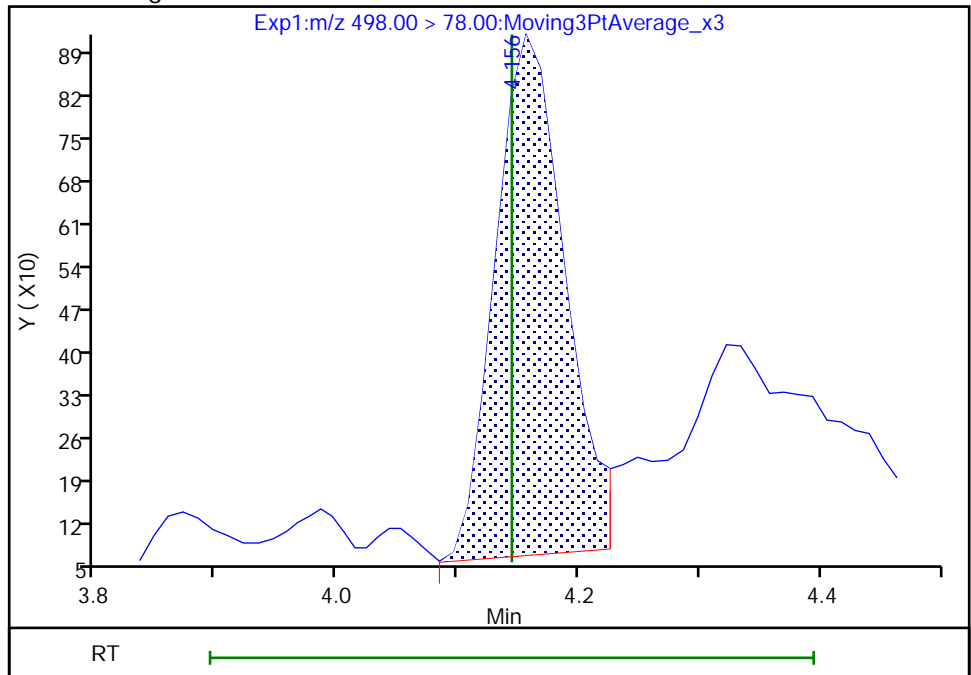
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 3393
Amount: 0.002741
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:23:53
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

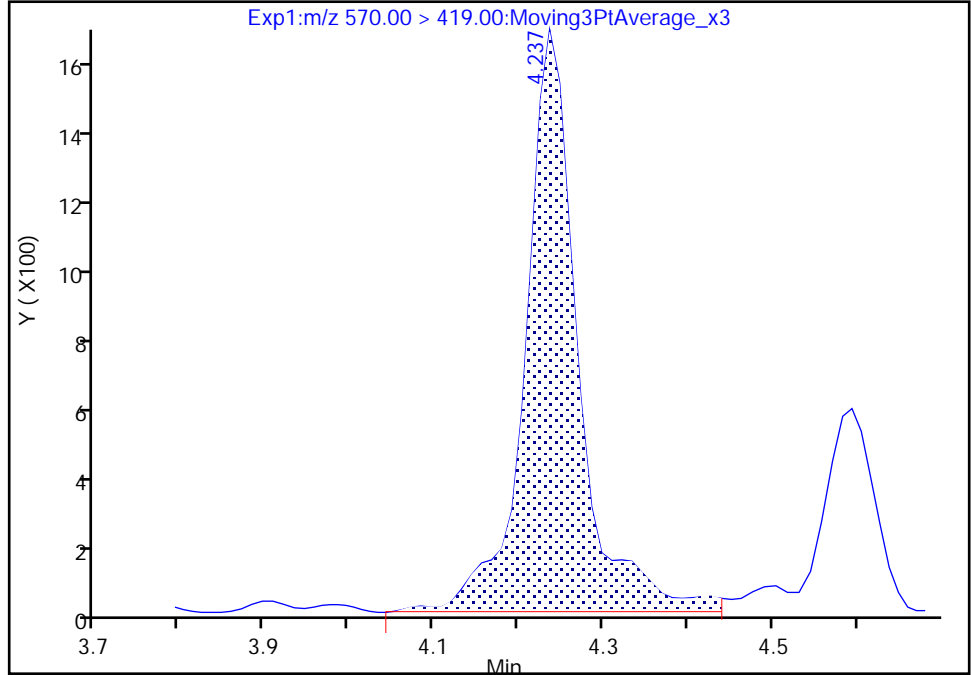
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

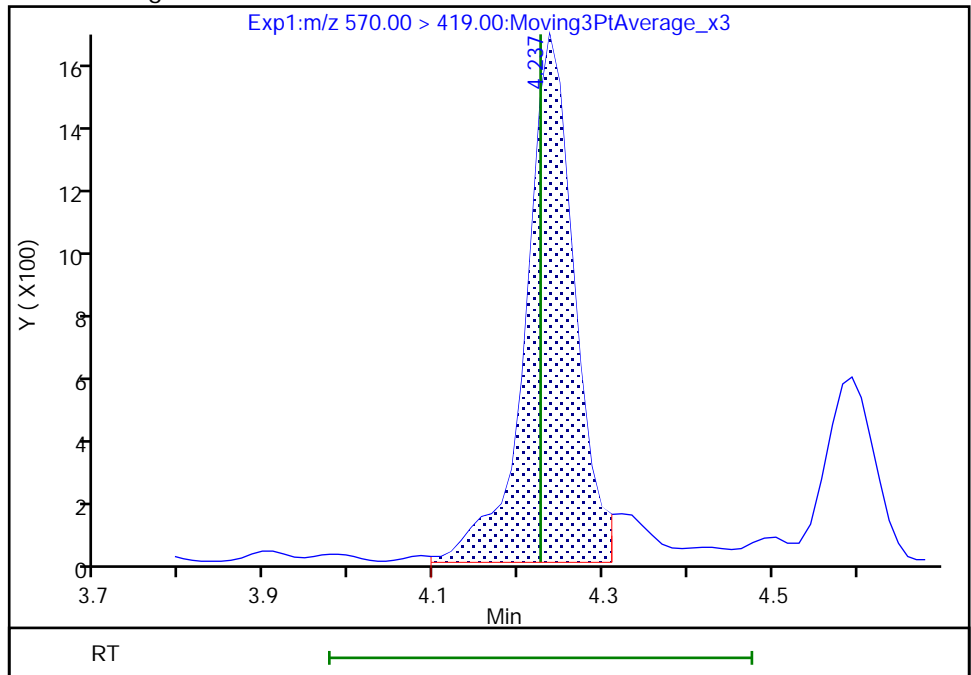
RT: 4.24
Area: 7272
Amount: 0.026567
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 6631
Amount: 0.024225
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:24:05
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

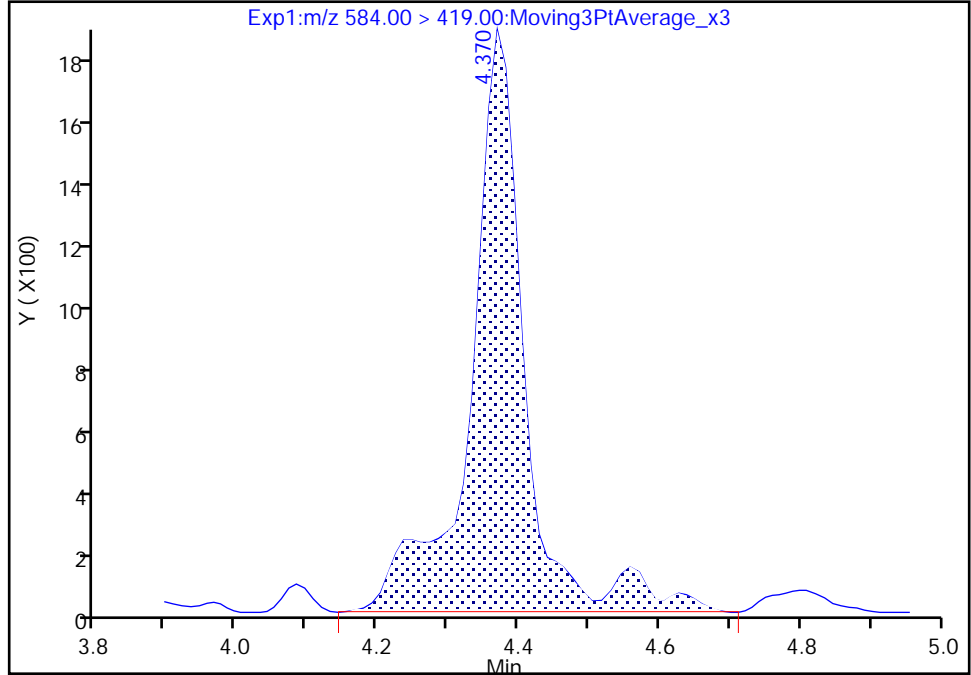
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

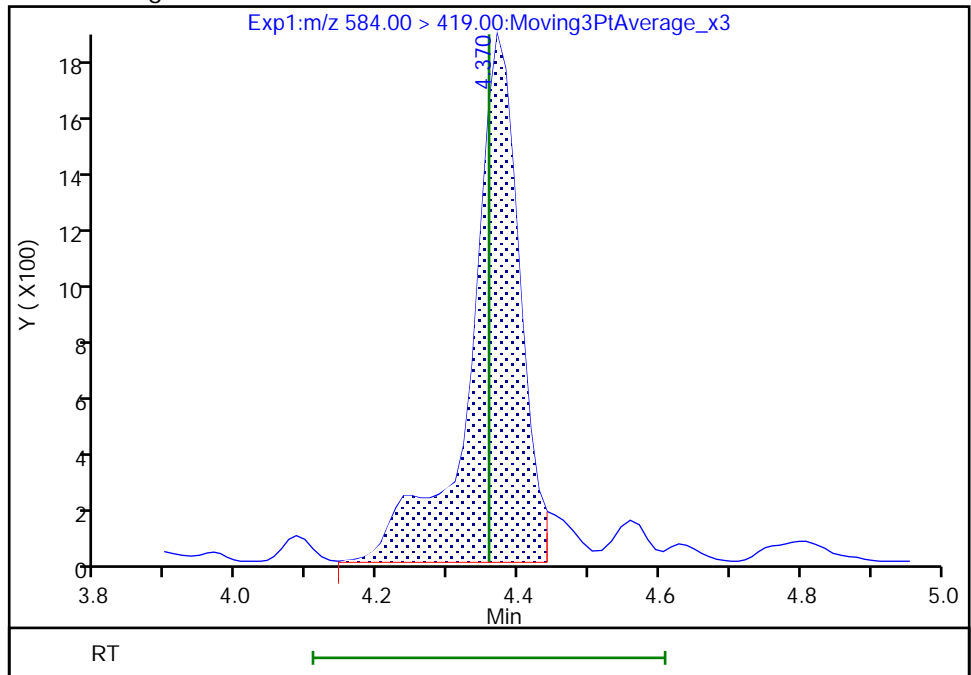
RT: 4.37
Area: 10064
Amount: 0.035797
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 8942
Amount: 0.031806
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 13-Jan-2023 13:24:51
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

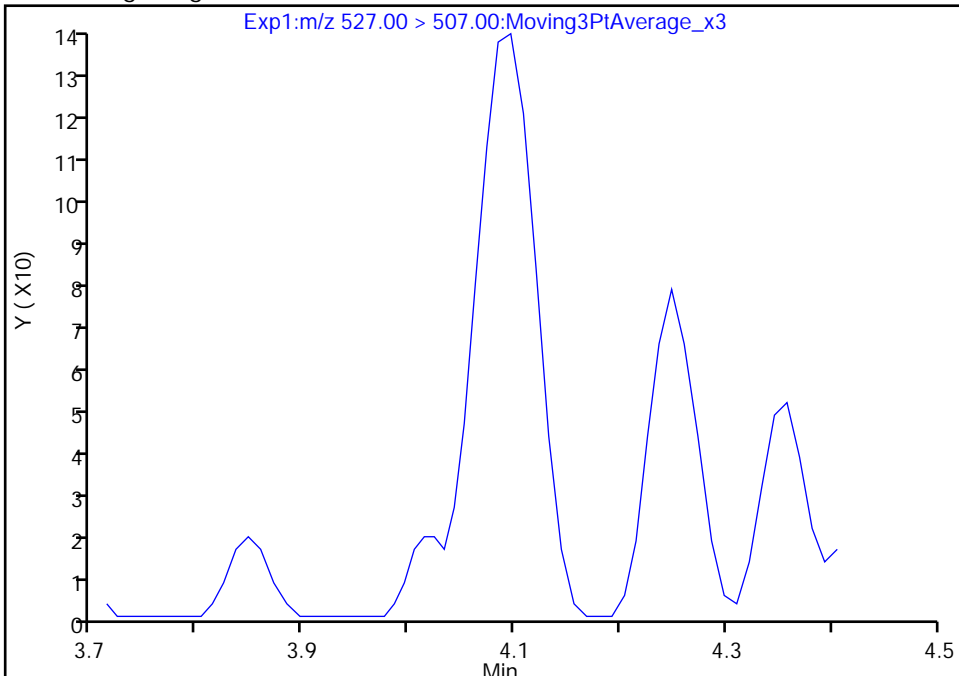
Data File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL11.d
Injection Date: 11-Jan-2023 18:32:02 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: TAIBURLC812\5500 QQQ ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

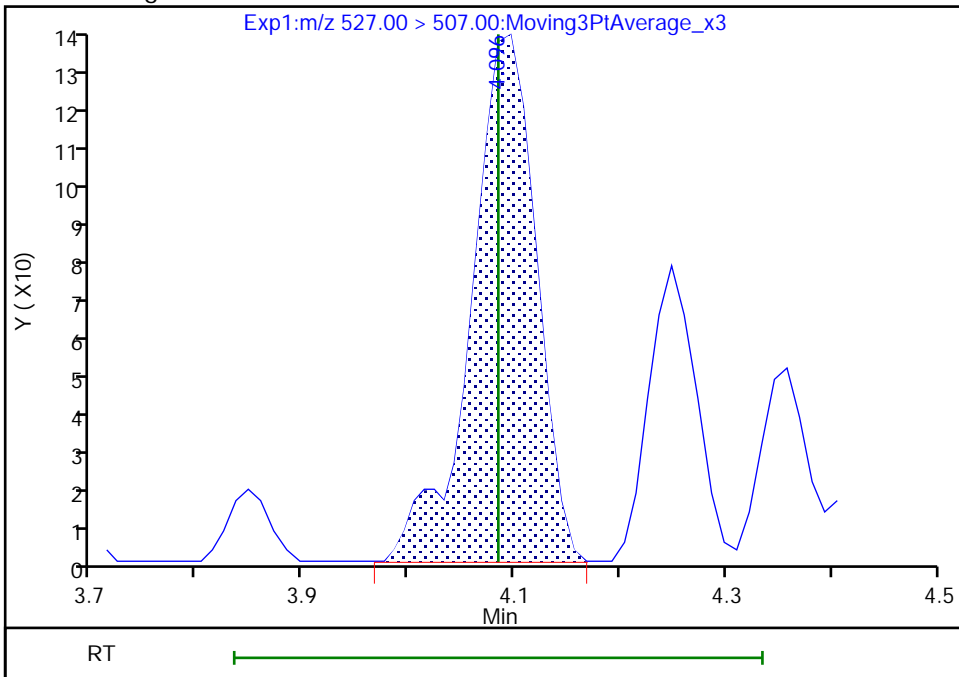
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 594
Amount: 0.001329
Amount Units: ng/ml



Reviewer: SJ4N, 13-Jan-2023 13:23:34
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187735/2-A
 Matrix: Water Lab File ID: PA230123B03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 250 (mL) Date Analyzed: 01/23/2023 19:48
 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.: 187759 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	41.57		5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	36.29		2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	37.16		2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	46.63		2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	41.09		2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	38.64		2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	38.37		2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	38.71		2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	38.51		2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	41.54		2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	42.18		2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.84		2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	35.61		2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	36.53		2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	32.82		2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	33.83		2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	38.98		2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	43.32		5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.99		5.00	1.60
27619-97-2	6:2 FTS	39.58		5.00	1.30
39108-34-4	8:2 FTS	41.46		2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187735/2-A
 Matrix: Water Lab File ID: PA230123B03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 250 (mL) Date Analyzed: 01/23/2023 19:48
 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.: 187759 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	89		50-150
STL00995	13C5 PFNA	93		50-150
STL00992	13C4 PFBA	93		50-150
STL00993	13C2 PFHxA	98		50-150
STL00996	13C2 PFDA	90		50-150
STL00997	13C2 PFUnA	85		50-150
STL00994	18O2 PFHxS	84		50-150
STL00998	13C2 PFDoA	82		50-150
STL00991	13C4 PFOS	85		50-150
STL01056	13C8 FOSA	72		50-150
STL01893	13C5 PFPeA	83		50-150
STL02116	13C2 PFTeDA	81		50-150
STL02118	d3-NMeFOSAA	87		50-150
STL02117	d5-NEtFOSAA	98		50-150
STL02279	M2-6:2 FTS	88		50-150
STL02337	13C3 PFBS	80		50-150
STL02280	M2-8:2 FTS	91		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
 Lims ID: LCS 200-187735/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 23-Jan-2023 19:48:43 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-187735/2-A
 Misc. Info.: 200-0054084-003 Plate: 1 Rack: 2
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Jan-2023 18:24:23 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1668
 First Level Reviewer: khanphomeea Date: 24-Jan-2023 11:21:24
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.076	2.094	-0.018	0.605	1739001	1.17	93.2	20457	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.094	-0.018	1.000	1426820	1.04		104	159	M
D 3 13C5 PFPeA	267.90 > 223.00	2.369	2.370	-0.001	0.690	1256459	1.04	83.3	6030	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.369	2.370	-0.001	1.000	1044429	0.9073		90.7	33.7	M
D 47 13C3 PFBS	301.90 > 80.00	2.383	2.384	-0.001	0.694	1225214	0.9254	79.6	168922	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.397	2.384	0.013	1.006	983417	0.8710	Target=2.10	98.5	2244	
298.90 > 99.00	2.397	2.384	0.013	1.006	453844		2.17(1.05-3.15)		462	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.680	2.669	0.011	1.000	363975	0.9813	105	3579	
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.780	146334	1.37	117	297	
D 7 13C2 PFHxA	315.00 > 270.00	2.705	2.694	0.011	0.788	1528112	1.22	97.6	6408	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.717	2.706	0.011	1.005	1196568	0.9291	Target=13.16	92.9	279	M
313.00 > 119.00	2.717	2.706	0.011	1.005	87785		13.63(6.58-19.74)		215	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.717	2.706	0.011	0.886	978243	0.9811	Target=2.90	105	1815	
349.00 > 99.00	2.717	2.706	0.011	0.886	349350		2.80(1.45-4.35)		1573	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.817	2.806	0.011	1.000	176914	1.00	99.9	2140	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.817	2.806	0.011	0.821	221455	1.02		81.6	2094	
D 11 18O2 PFHxS										
403.00 > 84.00	3.068	3.069	-0.001	0.894	953256	0.9895		83.7	4893	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.004	787808	0.8903	Target=3.18	97.8	1883	M
399.00 > 99.00	3.080	3.069	0.011	1.004	239504		3.29(1.59-4.77)		628	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.080	3.069	0.011	0.897	1431195	1.14		91.3	8079	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.080	3.069	0.011	1.000	1421493	1.17	Target=4.10	117	404	M
363.00 > 169.00	3.080	3.069	0.011	1.000	376841		3.77(2.05-6.16)		1739	M
77 DONA										
377.00 > 251.00	3.114	3.104	0.010	0.832	3070935	1.07	Target=2.96	114	3834	
377.00 > 85.00	3.114	3.104	0.010	0.832	994410		3.09(1.48-4.44)		2367	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.425	3.417	0.008	0.997	157857	1.04		87.5	1118	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.425	3.417	0.008	1.000	301208	0.9895		104	425	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.425	3.417	0.008	0.915	665049	0.9133	Target=4.59	95.9	2174	M
449.00 > 99.00	3.416	3.417	-0.001	0.913	139099		4.78(2.30-6.89)		1264	M
D 14 13C4 PFOA										
417.00 > 372.00	3.434	3.426	0.008	1.000	1481473	1.11		89.2	8659	
* 62 13C2 PFOA										
415.00 > 370.00	3.434	3.426	0.008		1622022	1.25			9855	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.434	3.426	0.008	1.000	1325095	1.03	Target=2.71	103	131	M
413.00 > 169.00	3.434	3.426	0.008	1.000	461000		2.87(1.36-4.07)		865	M
D 18 13C4 PFOS										
503.00 > 80.00	3.743	3.754	-0.011	1.090	598024	1.02		85.4	3861	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.754	-0.001	1.003	514109	0.8457	Target=4.23	91.1	778	M
499.00 > 99.00	3.743	3.754	-0.011	1.000	119327		4.31(2.11-6.34)		631	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.763	3.774	-0.011	1.000	1187955	0.9660	Target=8.78	96.6	252	
463.00 > 169.00	3.763	3.774	-0.011	1.000	157888		7.52(4.39-13.17)		2147	
D 19 13C5 PFNA										
468.00 > 423.00	3.763	3.774	-0.011	1.096	1504789	1.16		93.0	6256	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.909	3.922	-0.013	1.044	1255373	0.8650		92.8	4242	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.042	4.043	-0.001	1.080	411169	0.8143	Target=2.37	84.8	4687	
549.00 > 99.00	4.042	4.043	-0.001	1.080	186003		2.21(1.18-3.55)		1727	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.186	1498146	1.13		90.2	7522	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	1229166	0.9592	Target=11.13	95.9	508	
513.00 > 169.00	4.073	4.074	-0.001	1.000	119363		10.30(5.56-16.69)		695	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.189	206387	1.08		90.6	1676	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.073	4.085	-0.012	0.997	324101	1.04		108	1998	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	760495	0.9745		97.5	2170	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.207	969921	0.8984		71.9	3359	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.226	-0.012	1.227	283224	1.08		86.8	1069	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.214	4.226	-0.012	1.000	221227	1.08		108	917	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.322	-0.012	1.151	308789	0.8204	Target=2.45	85.1	1893	M
599.00 > 99.00	4.310	4.322	-0.012	1.151	130477		2.37(1.23-3.68)		1394	M
D 30 13C2 PFOuA										
565.00 > 520.00	4.346	4.346	0.0	1.266	1216478	1.06		84.9	5983	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	1028060	0.9677	Target=10.33	96.8	374	
563.00 > 169.00	4.346	4.346	0.0	1.000	97127		10.58(5.17-15.50)		2164	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.357	4.358	-0.001	1.000	222833	0.9747		97.5	1356	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.269	307579	1.23		98.1	936	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.186	2180884	0.9711		103	5695	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	920336	0.9628	Target=8.10	96.3	157	
613.00 > 169.00	4.583	4.584	-0.001	1.000	125353		7.34(4.05-12.15)		1034	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.335	1173607	1.02		81.7	4062	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.594	4.606	-0.012	1.125	166759	0.8435		87.5	1690	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.760	4.770	-0.010	1.272	123448	0.8074	Target=0.51	83.4	3179	M
699.00 > 99.00	4.760	4.770	-0.010	1.272	218033		0.57(0.26-0.77)		2844	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.789	4.799	-0.010	1.045	991603	1.04	Target=6.06	104	185	M
663.00 > 169.00	4.789	4.799	-0.010	1.045	169519		5.85(3.03-9.09)		1561	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.994	4.998	-0.004	1.002	105243	1.05	Target=0.83	105	1909	
713.00 > 219.00	4.983	4.998	-0.015	1.000	113916		0.92(0.42-1.25)		1962	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.983	4.998	-0.015	1.451	999064	1.01		80.8	4218	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.349	5.362	-0.013	1.000	929733	1.09	Target=6.74	109	181	
813.00 > 169.00	5.349	5.362	-0.013	1.000	133324		6.97(3.37-10.11)		1447	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.349	5.362	-0.013	1.558	1152594	0.9511		76.1	4119	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.691	5.711	-0.020	1.064	799133	1.07	Target=6.99	107	191	M
913.00 > 169.00	5.691	5.711	-0.020	1.064	110146		7.26(3.50-10.49)		801	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d

Injection Date: 23-Jan-2023 19:48:43

Instrument ID: LC812

Lims ID: LCS 200-187735/2-A

Client ID:

Operator ID: LC812user

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

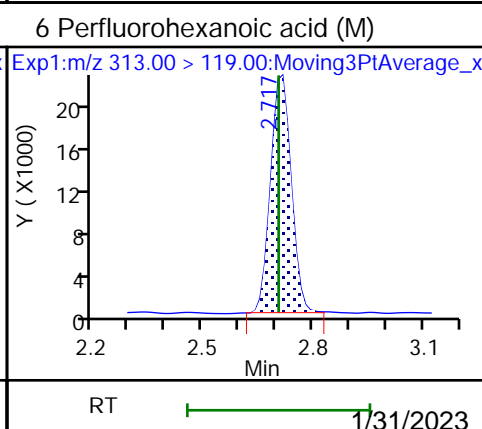
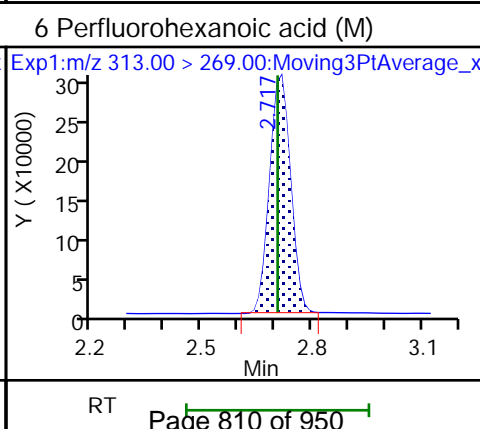
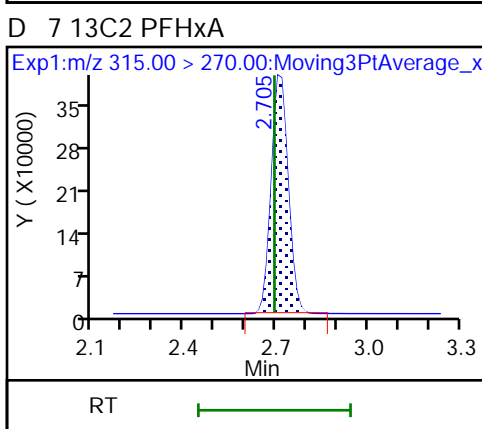
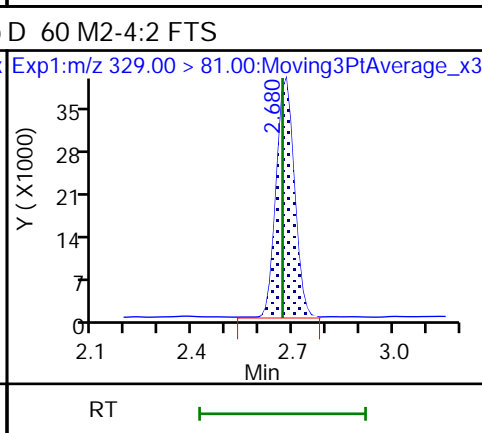
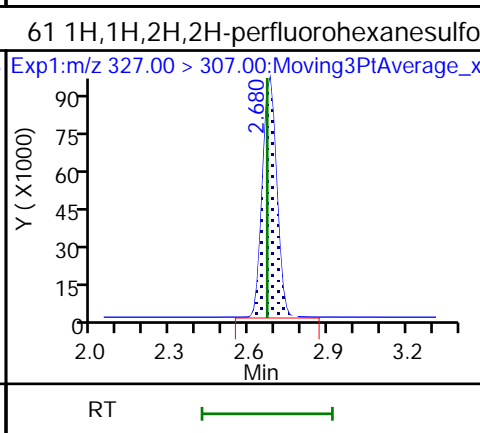
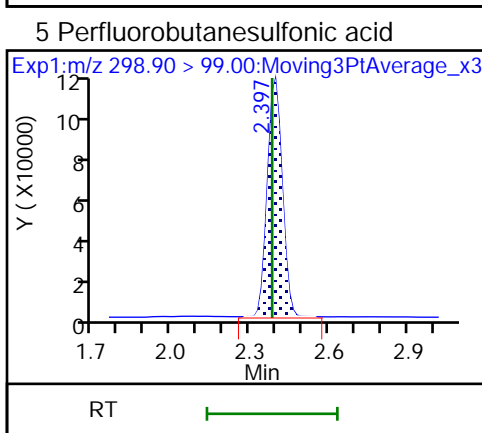
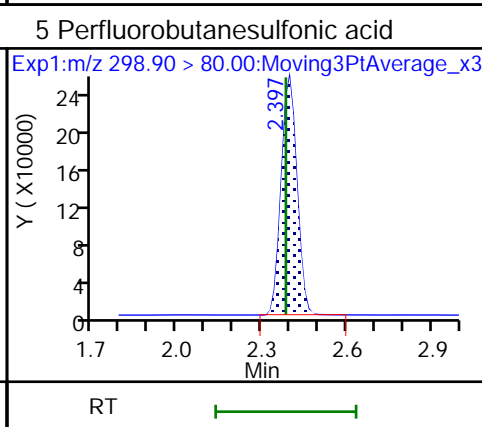
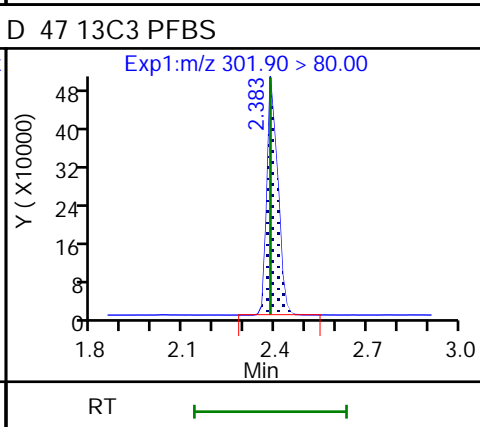
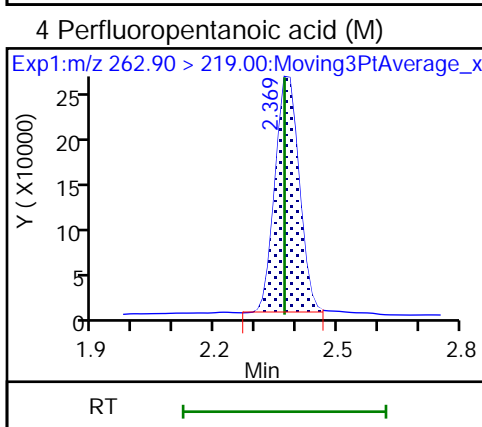
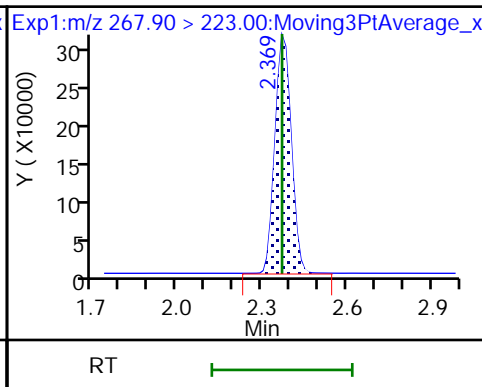
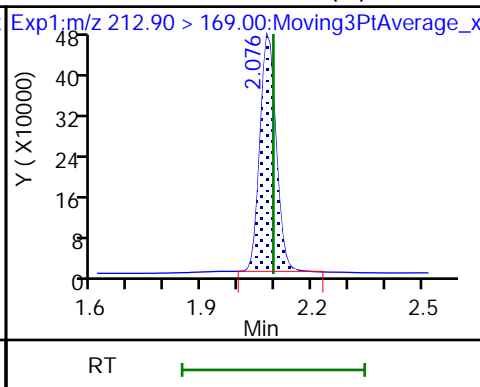
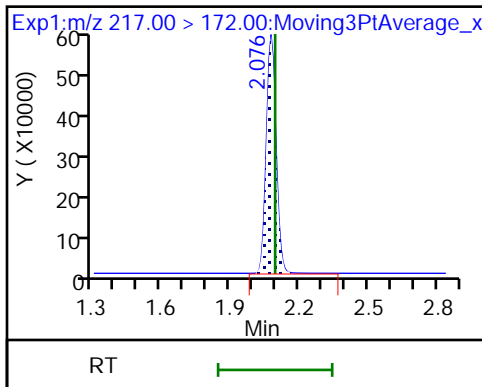
Method: PFC_LC812

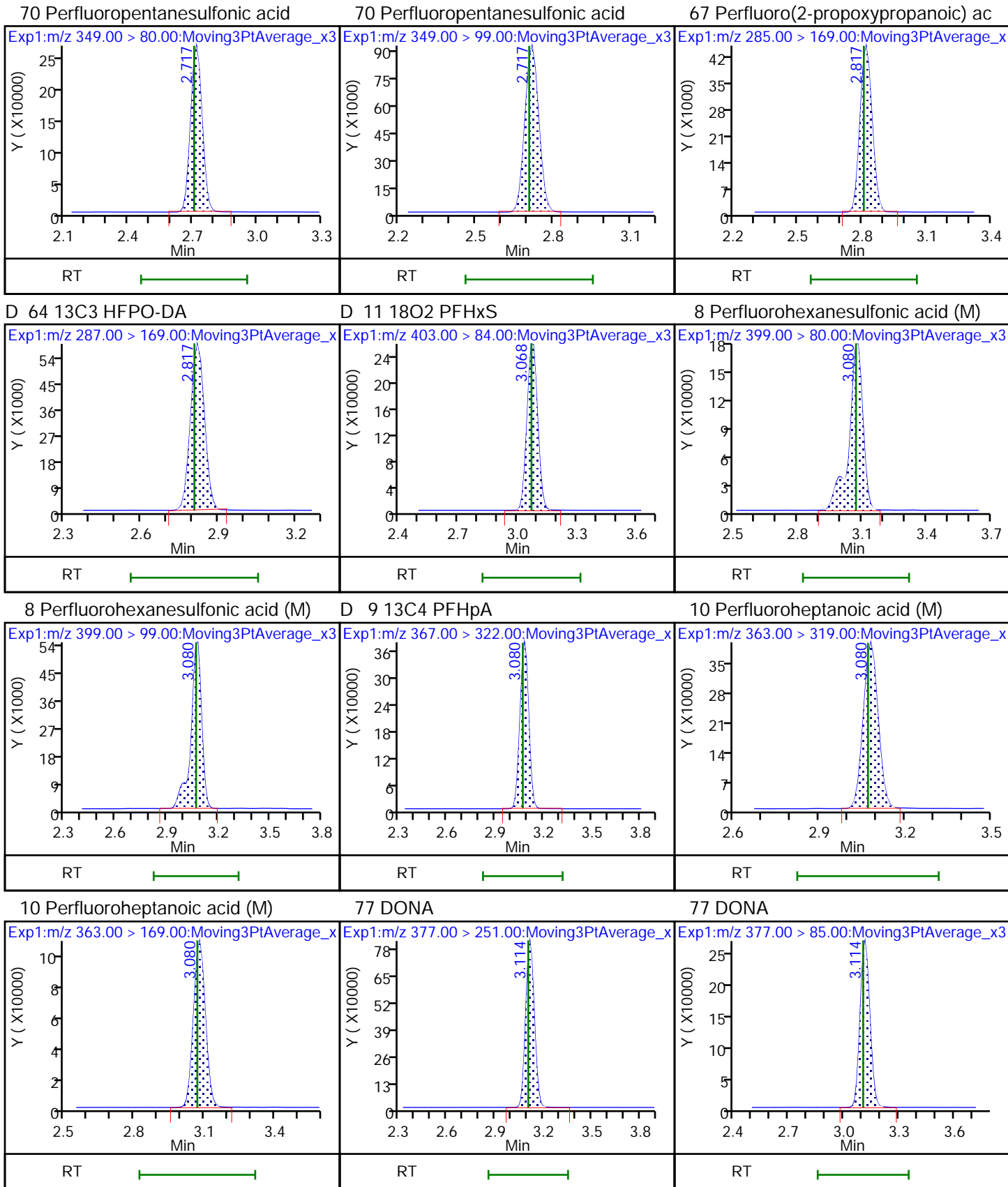
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

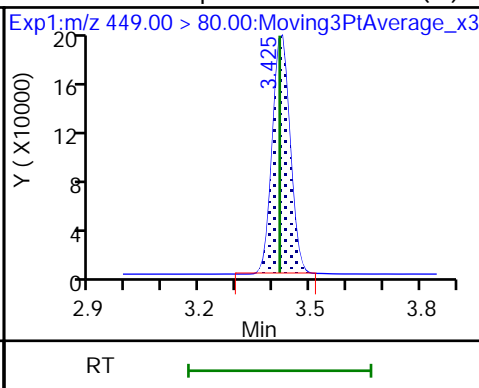
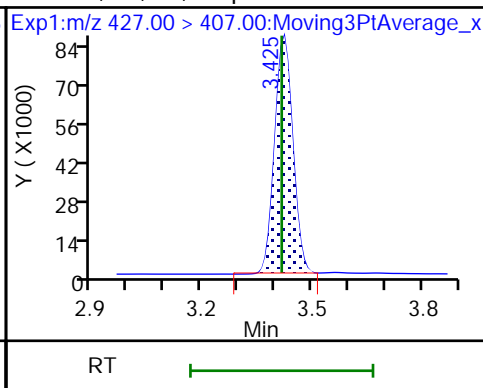
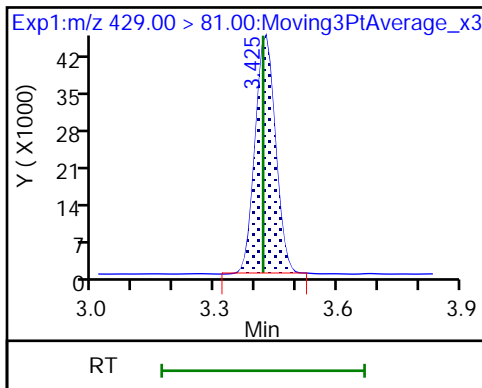




D 12 M2-6:2 FTS

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

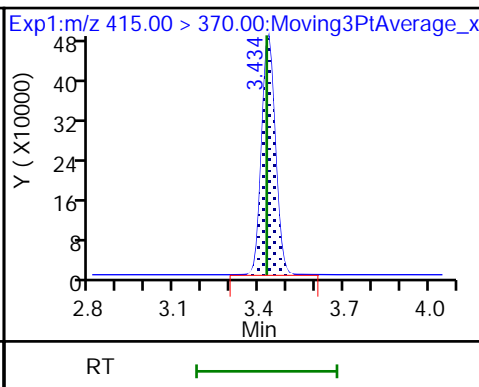
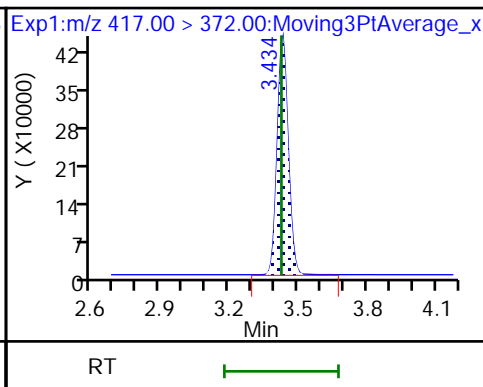
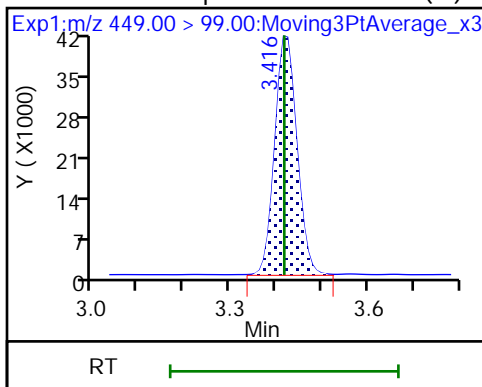
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

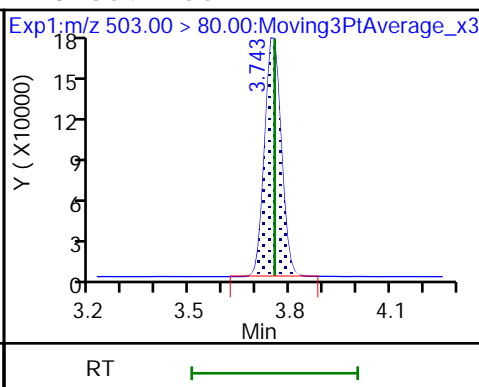
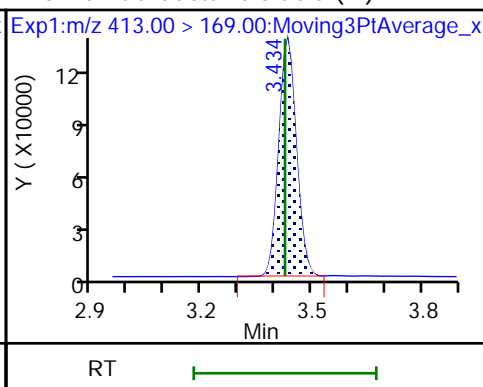
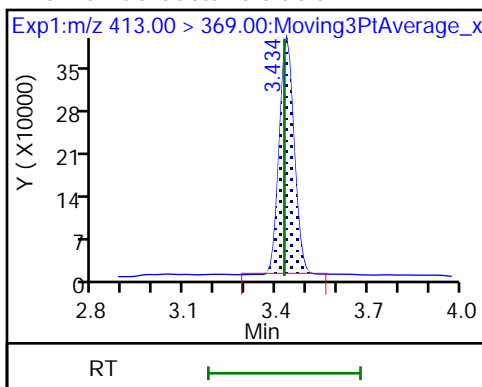
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

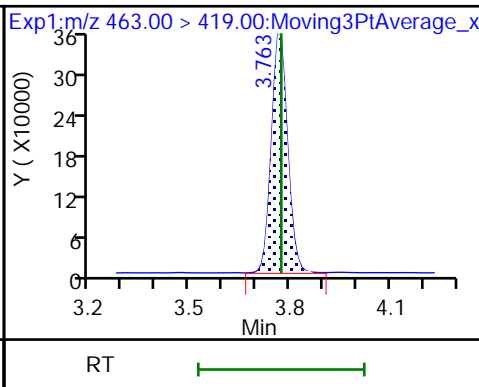
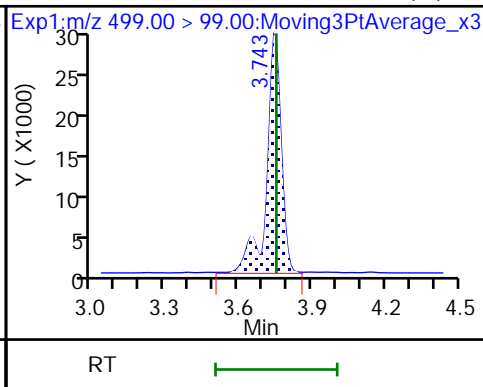
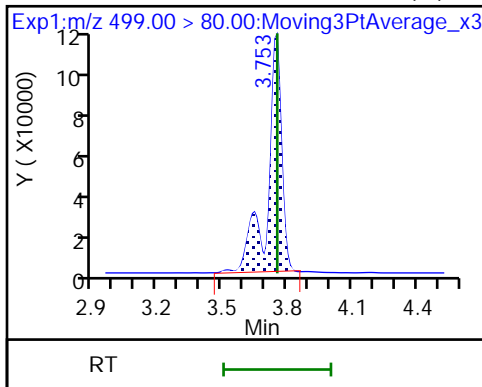
D 18 13C4 PFOS

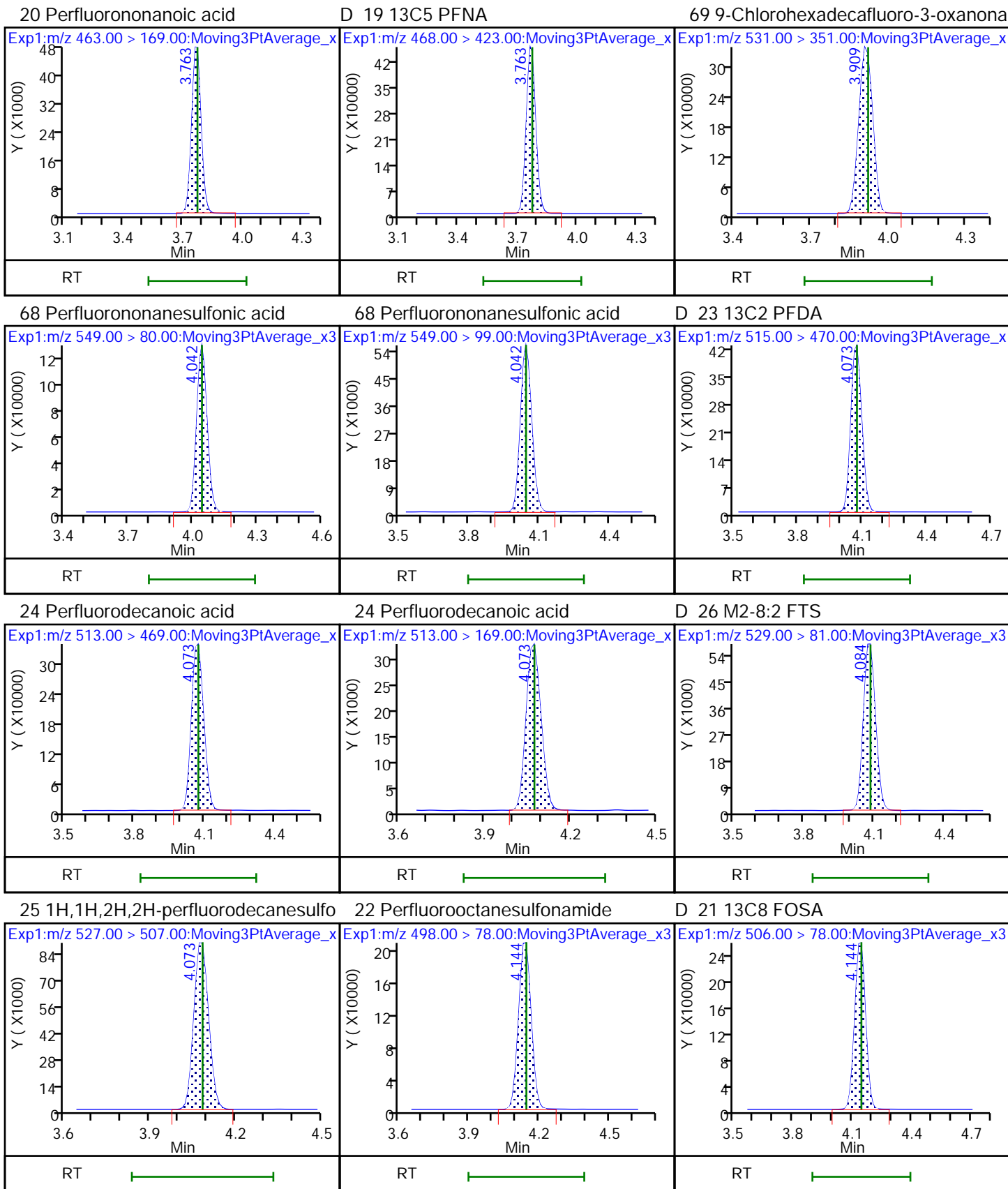


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

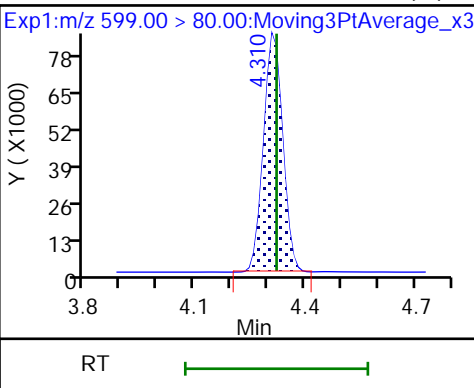
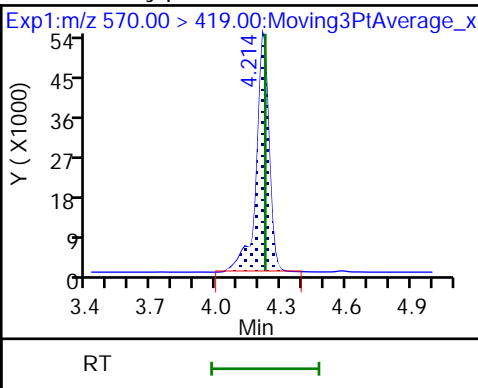
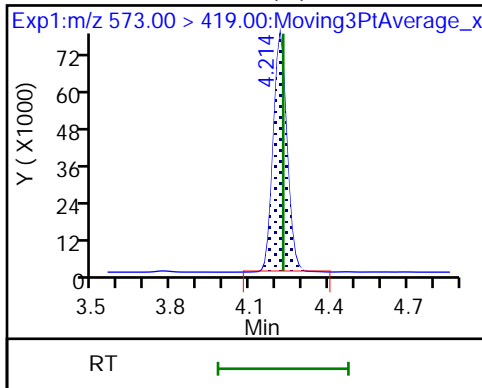




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

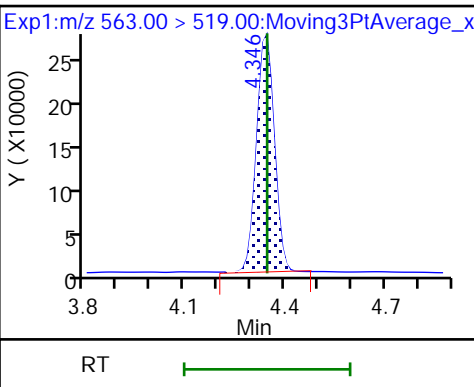
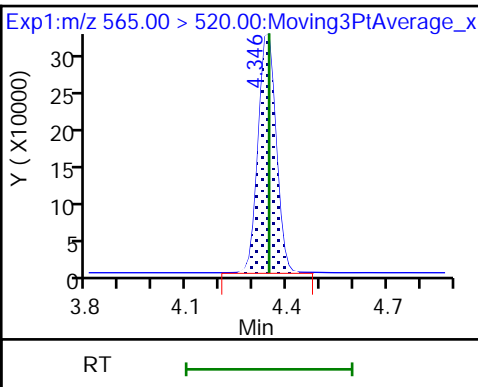
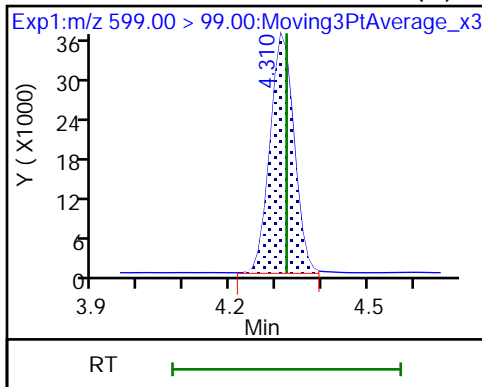
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

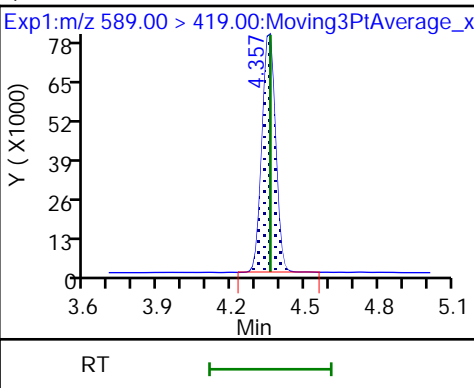
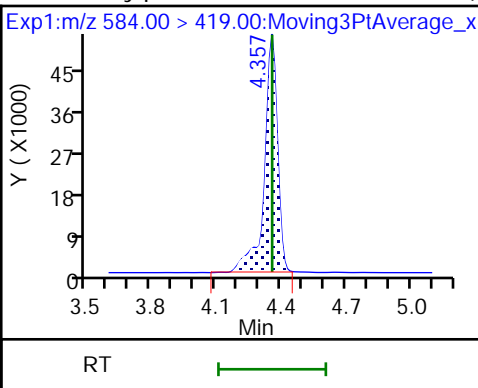
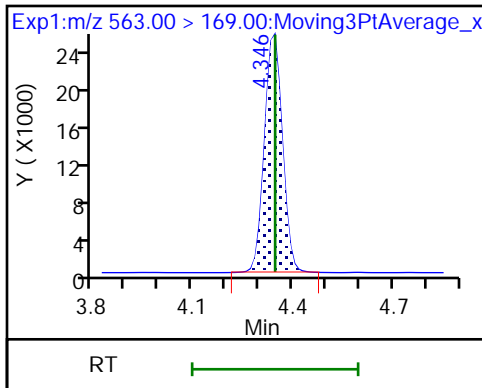
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (N)

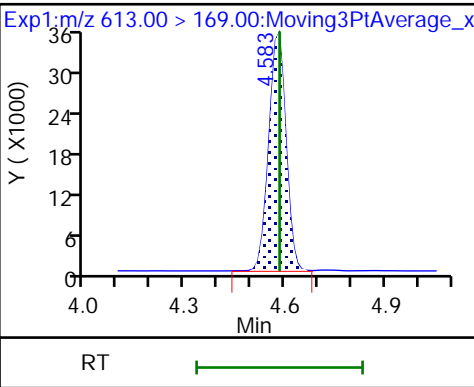
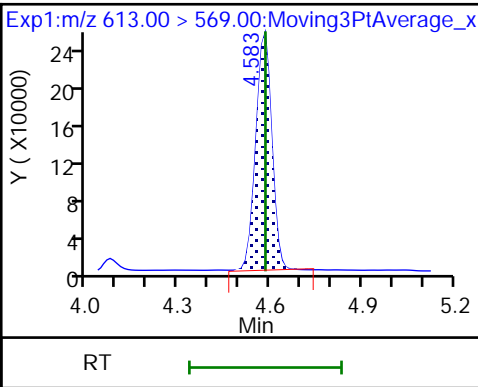
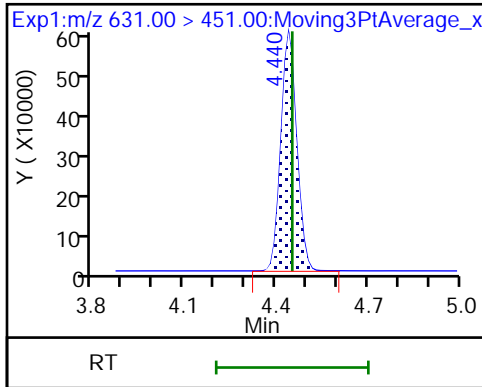
32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

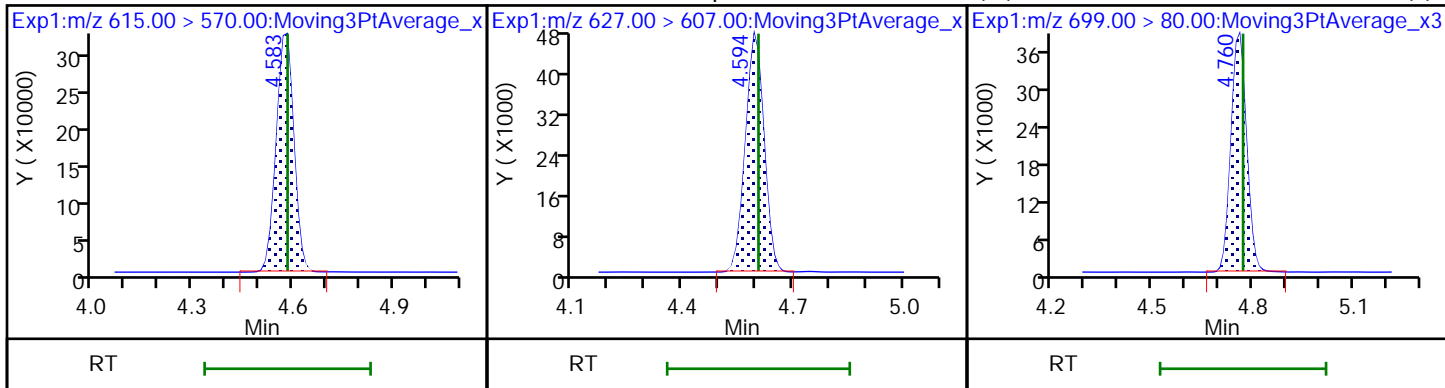
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

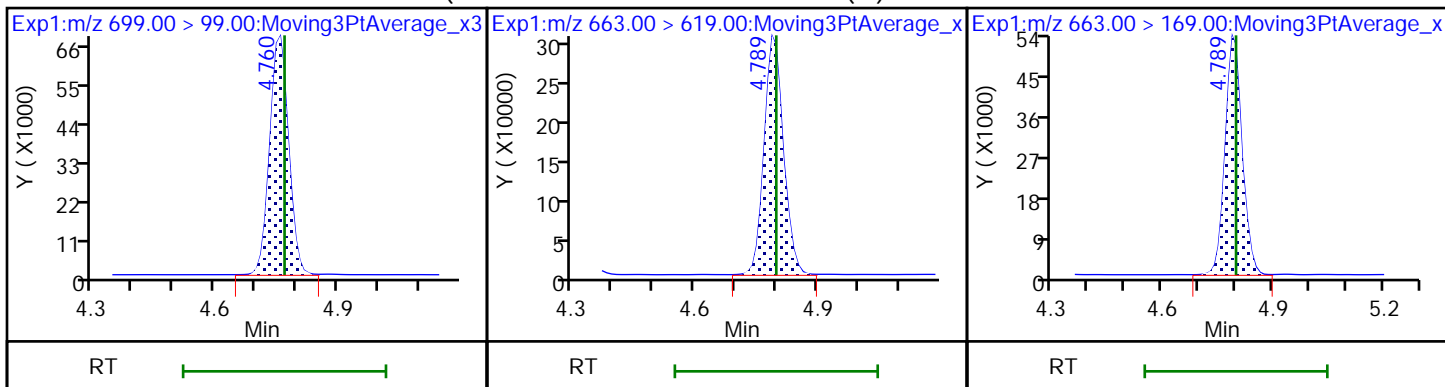
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

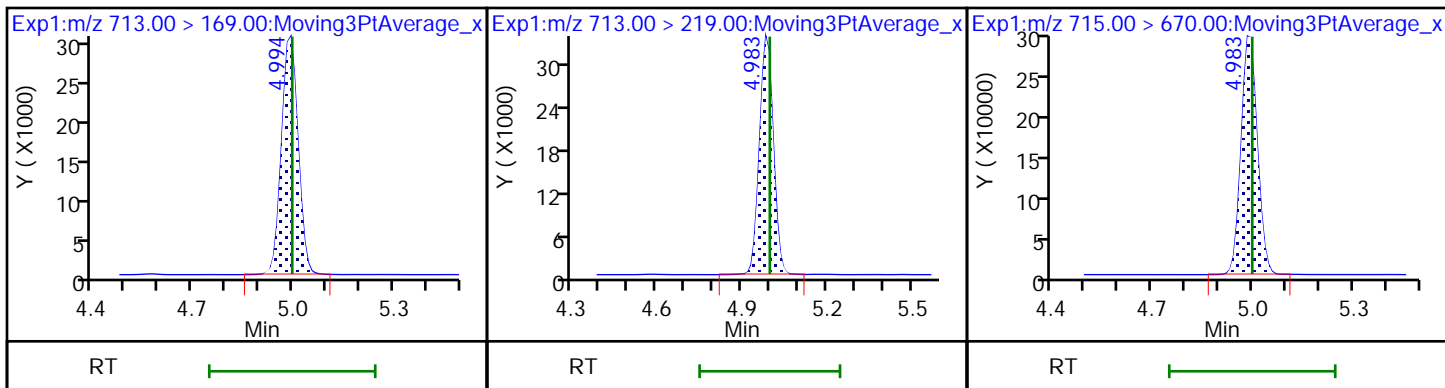
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

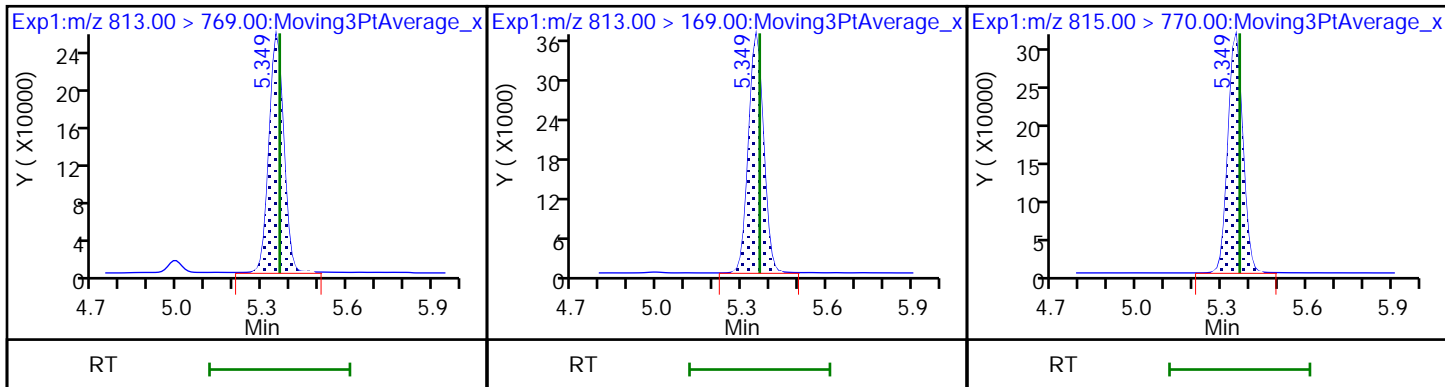
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

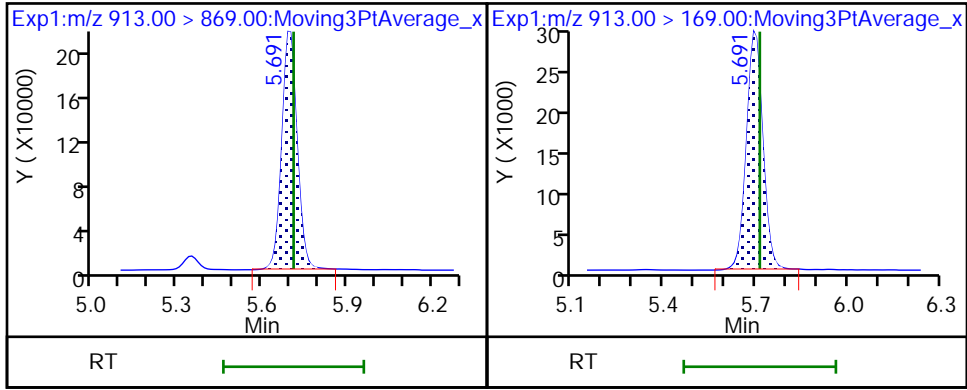
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

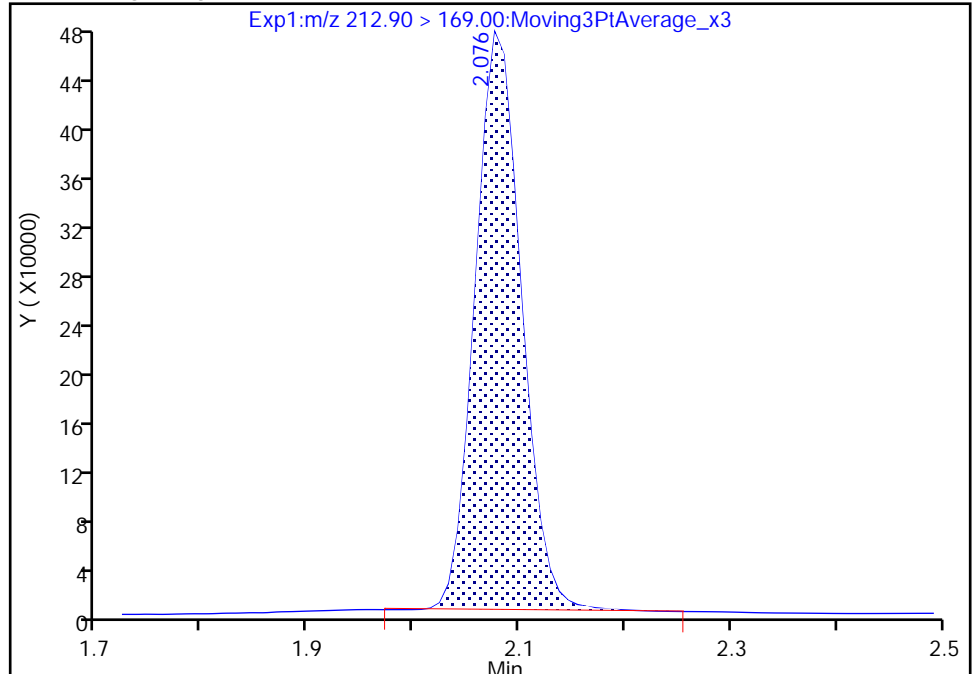
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Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

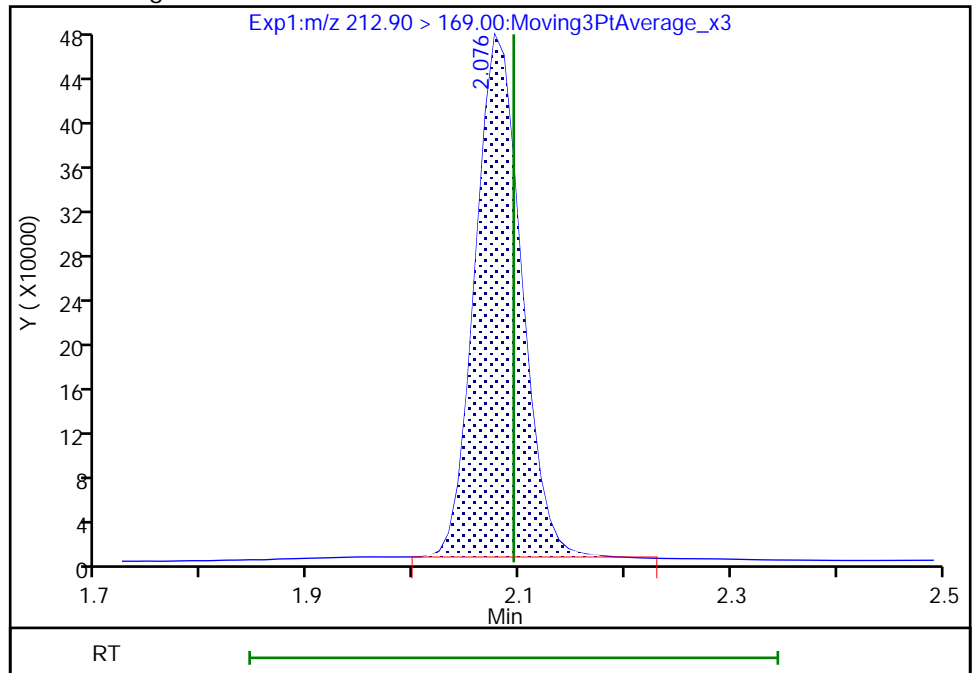
RT: 2.08
Area: 1430113
Amount: 1.041639
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1426820
Amount: 1.039141
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:18:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

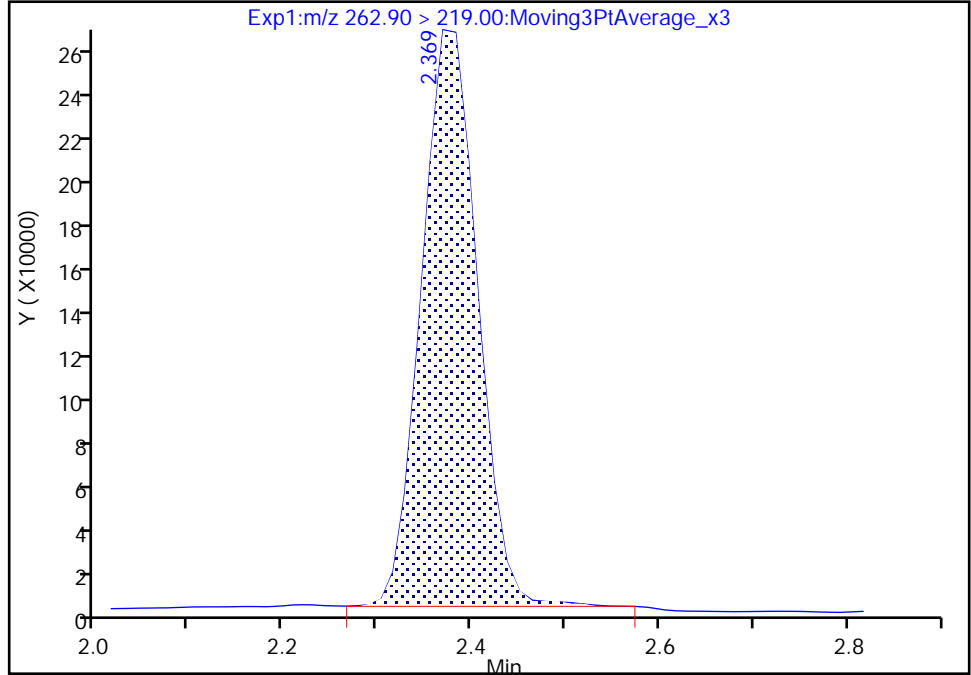
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Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

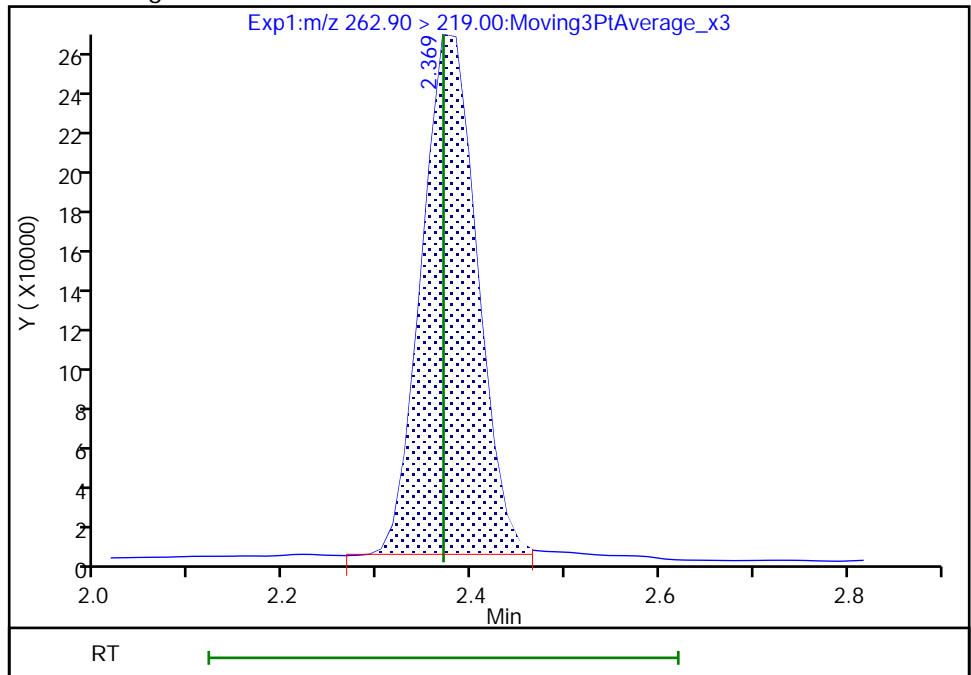
RT: 2.37
Area: 1052273
Amount: 0.914080
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 1044429
Amount: 0.907266
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:18:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

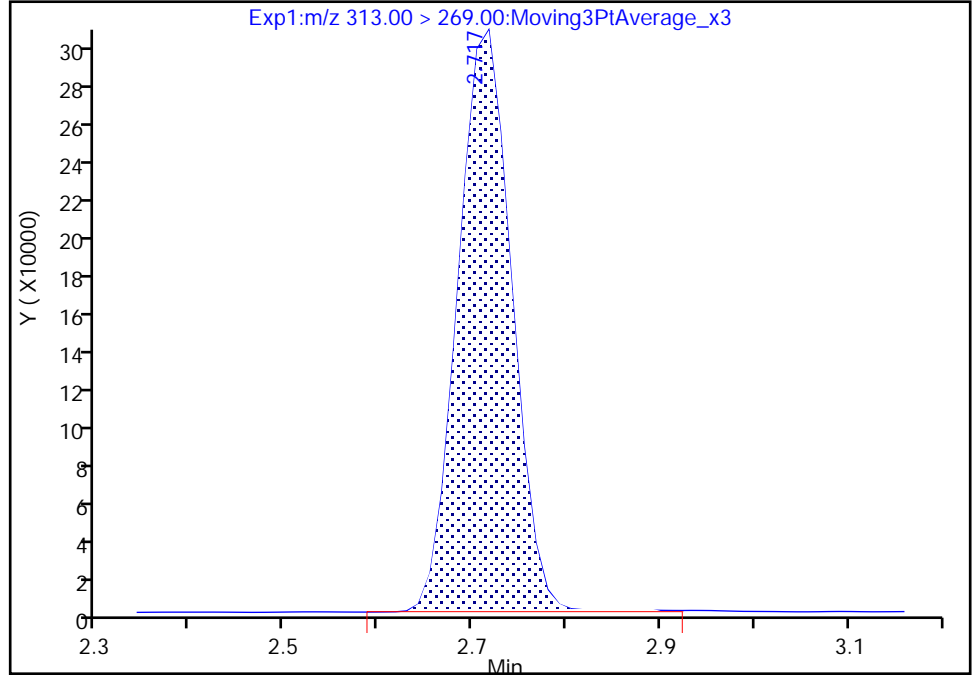
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Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

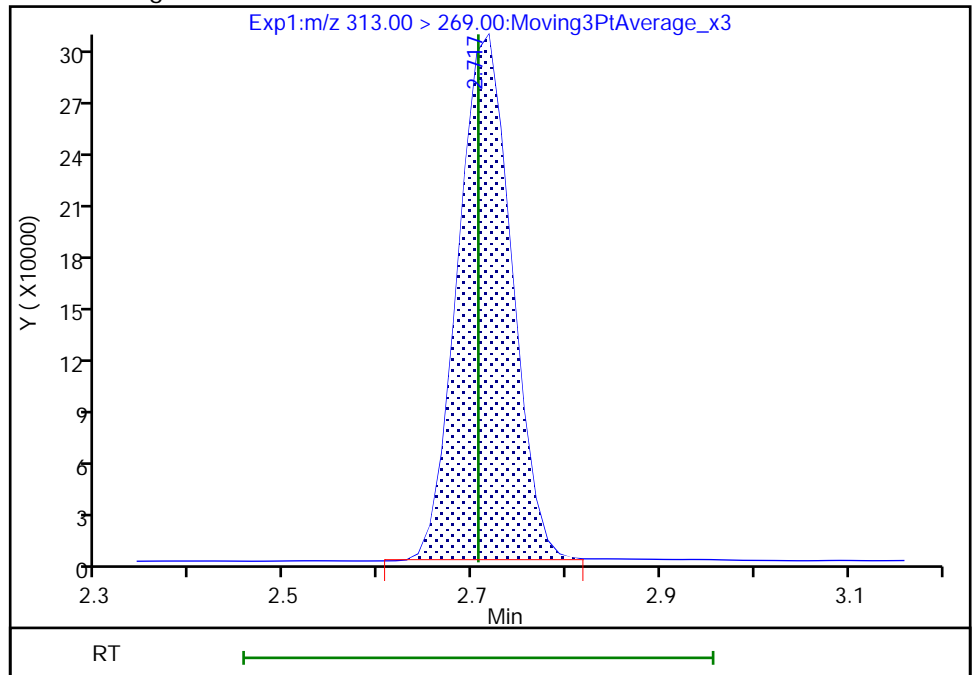
RT: 2.72
Area: 1203324
Amount: 0.934302
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 1196568
Amount: 0.929057
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:18:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

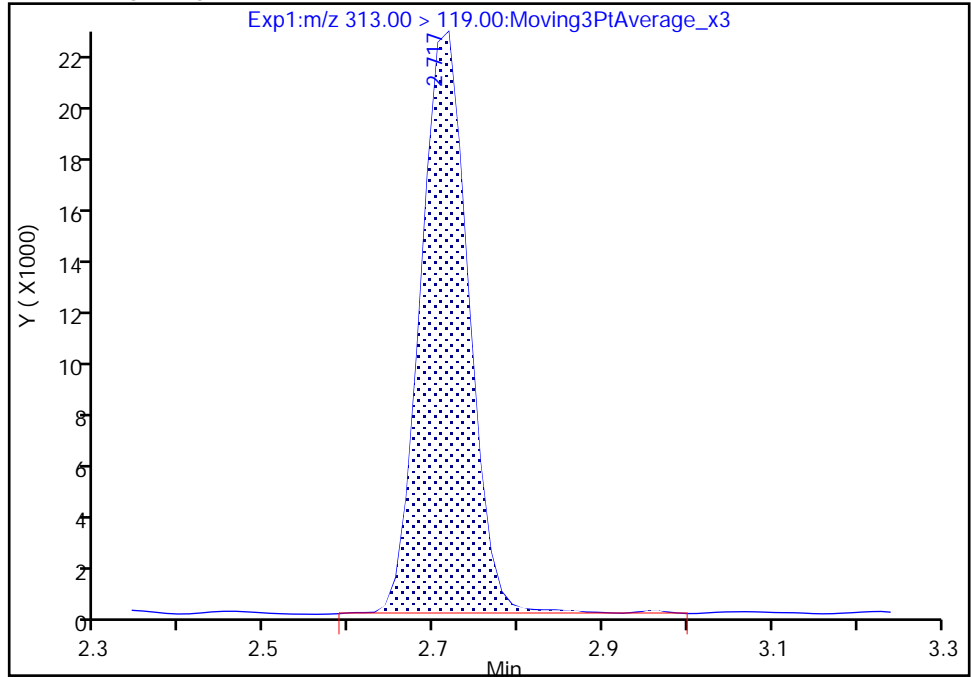
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Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

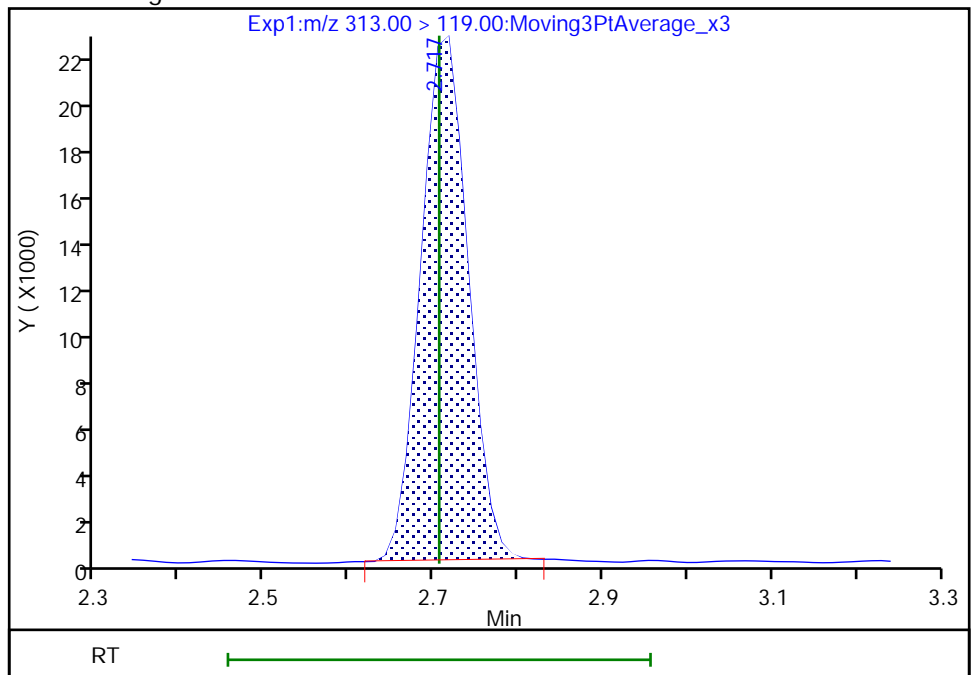
RT: 2.72
Area: 89675
Amount: 0.934302
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 87785
Amount: 0.929057
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:18:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

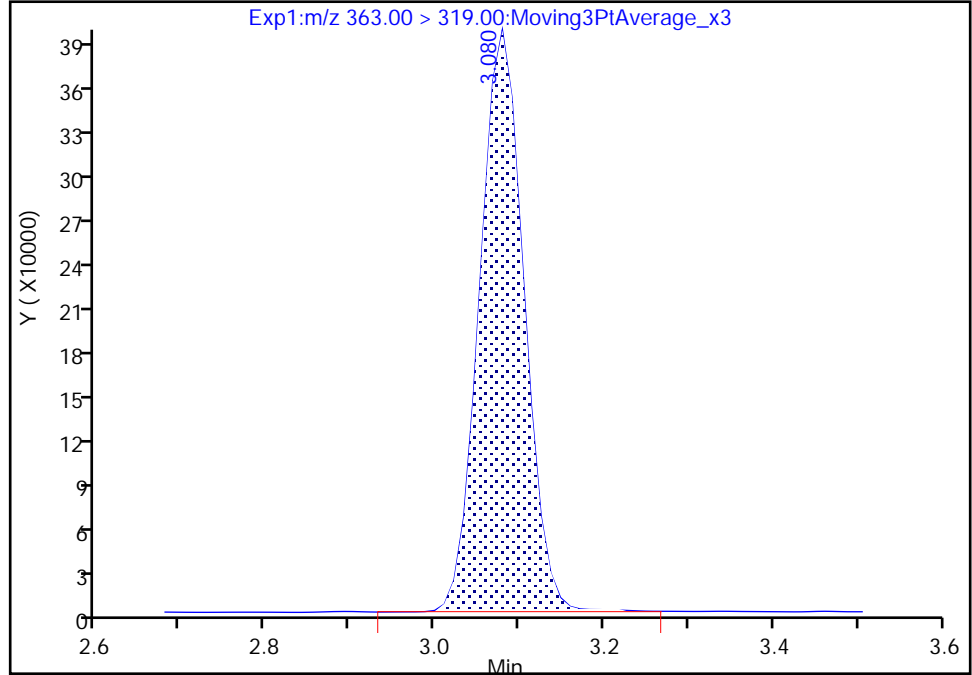
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

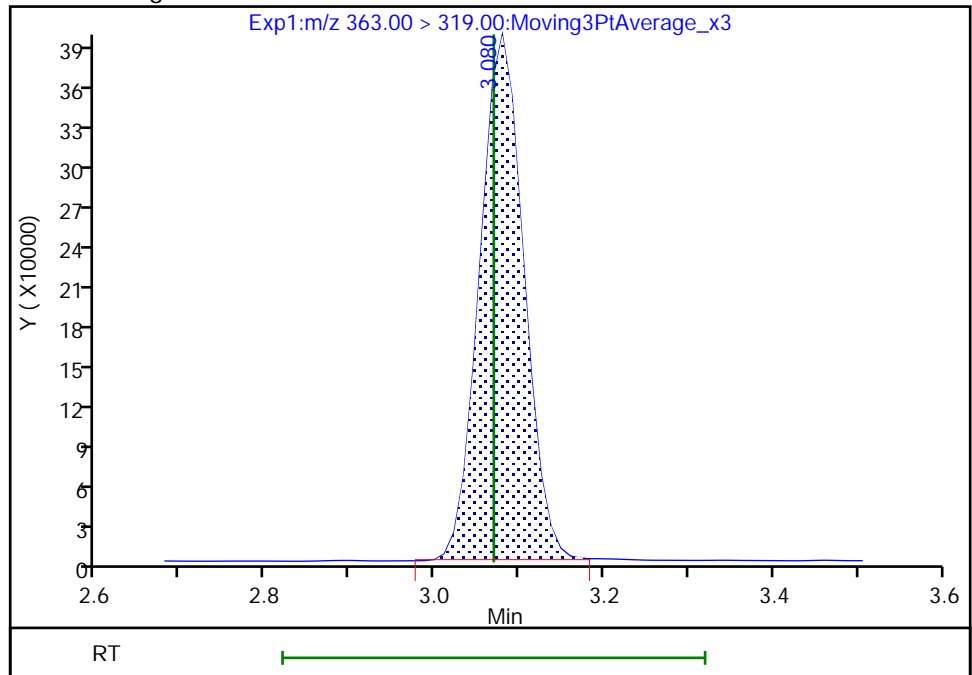
RT: 3.08
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Amount: 1.169548
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 1421493
Amount: 1.165852
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:19:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

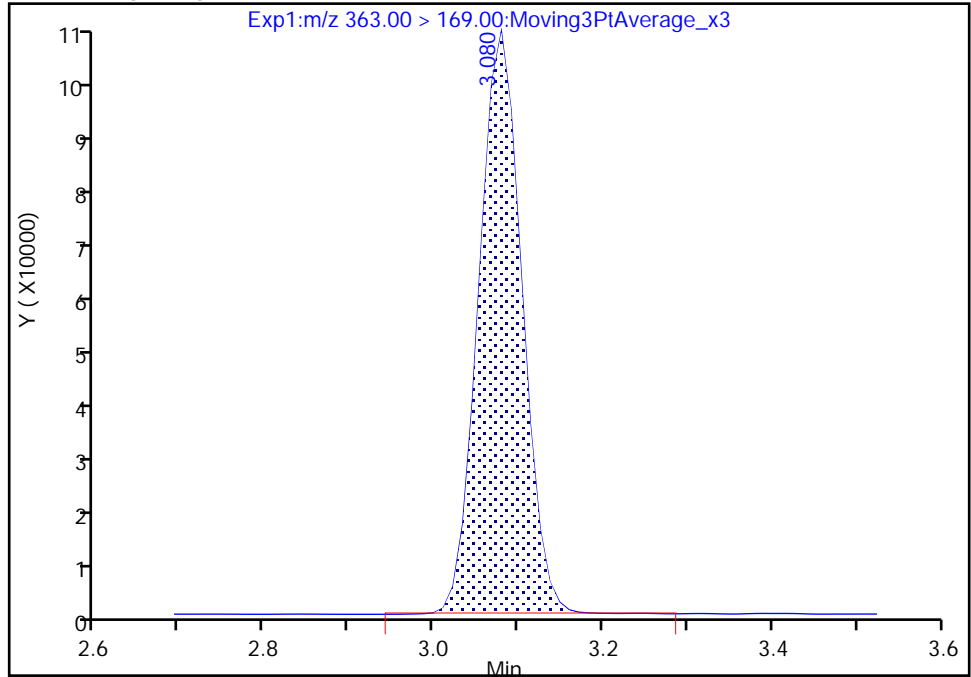
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

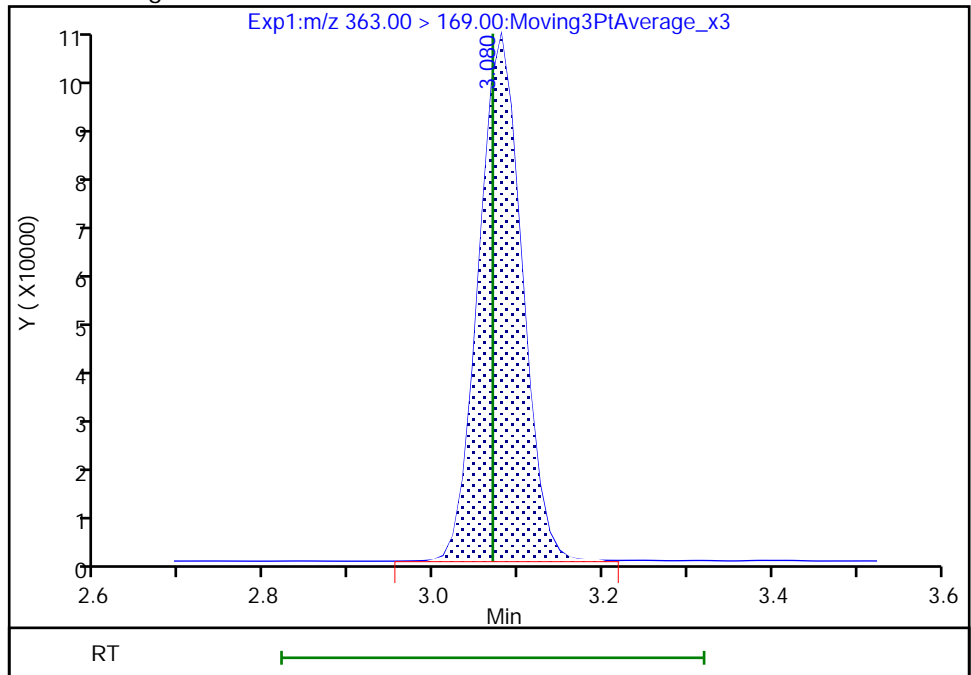
RT: 3.08
Area: 377750
Amount: 1.169548
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 376841
Amount: 1.165852
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:19:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

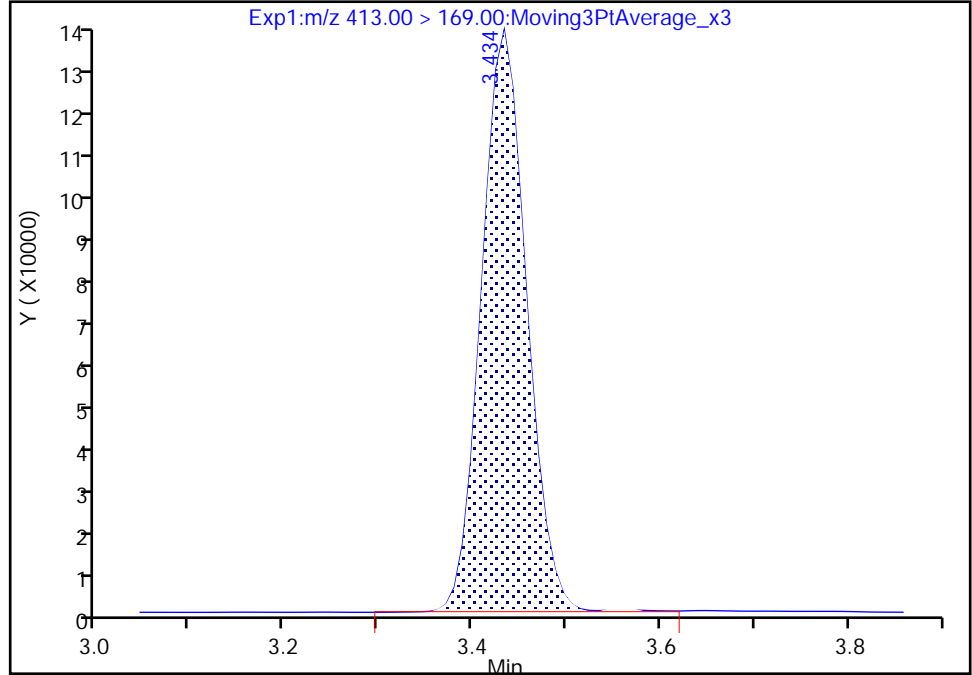
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

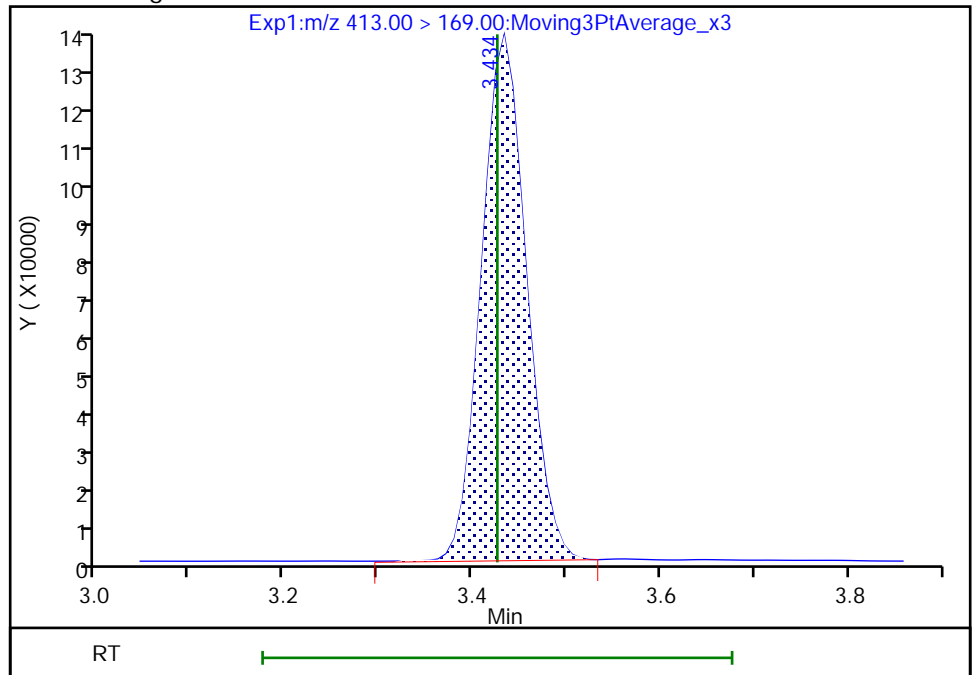
RT: 3.43
Area: 461958
Amount: 1.027354
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 461000
Amount: 1.027354
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:19:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

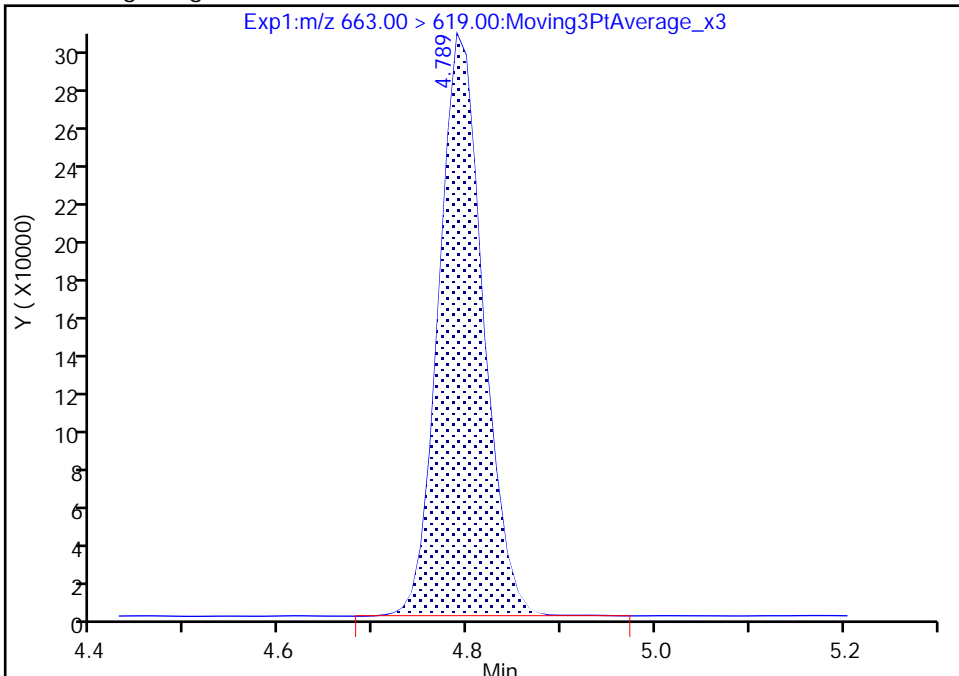
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Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

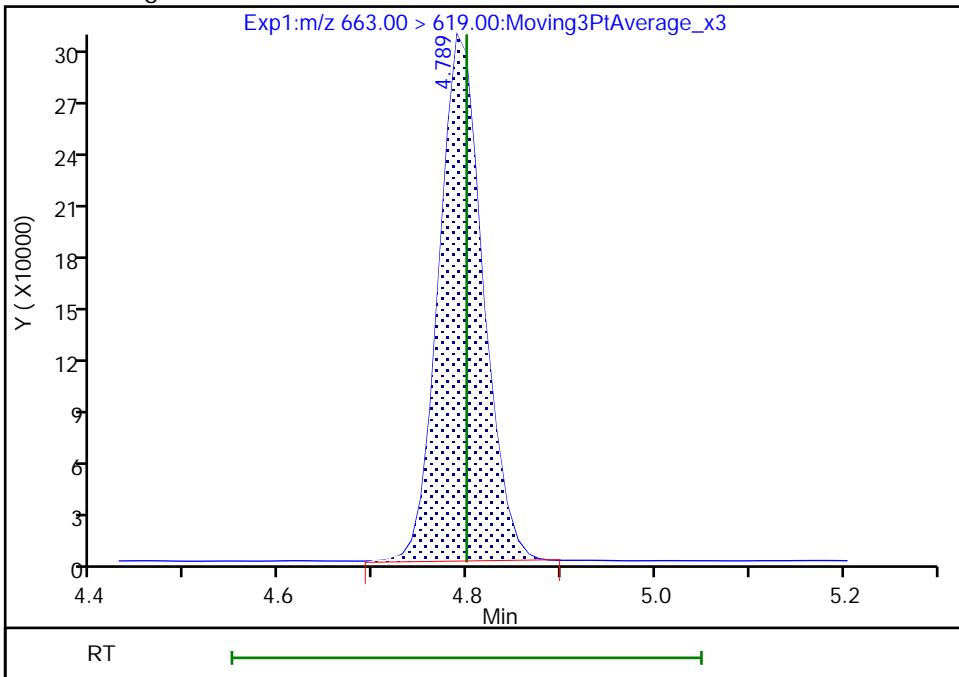
RT: 4.79
Area: 994790
Amount: 1.041941
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 991603
Amount: 1.038603
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:21:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

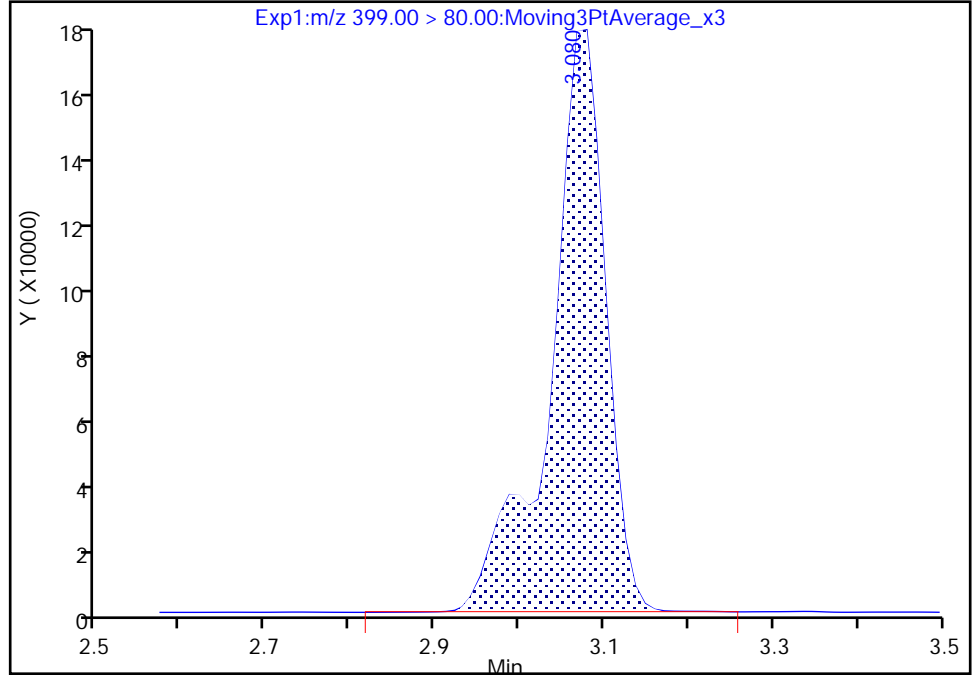
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

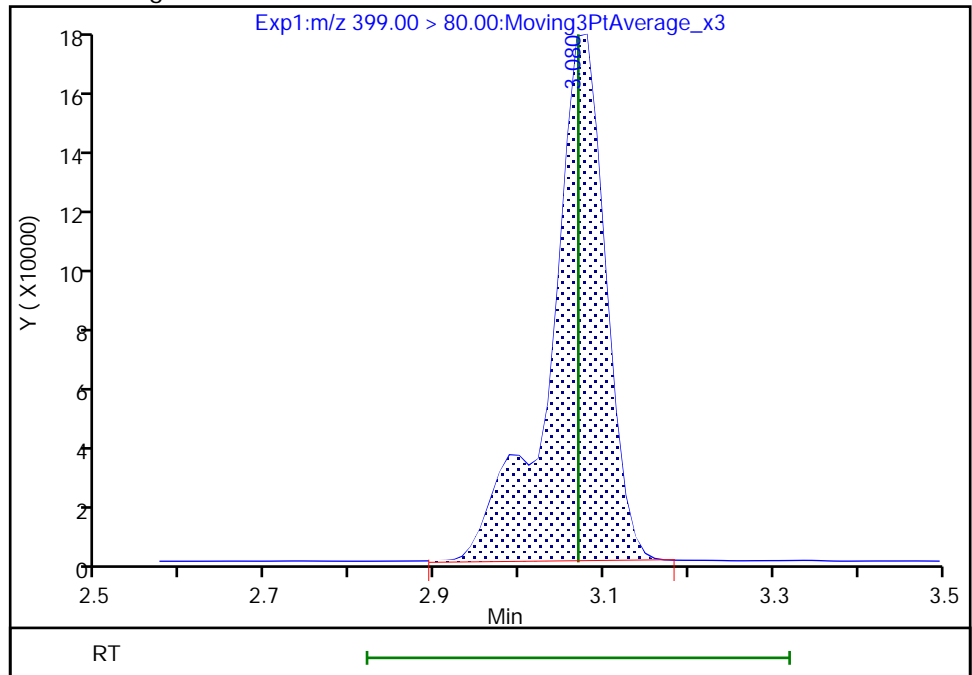
RT: 3.08
Area: 788597
Amount: 0.891201
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 787808
Amount: 0.890309
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:18:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

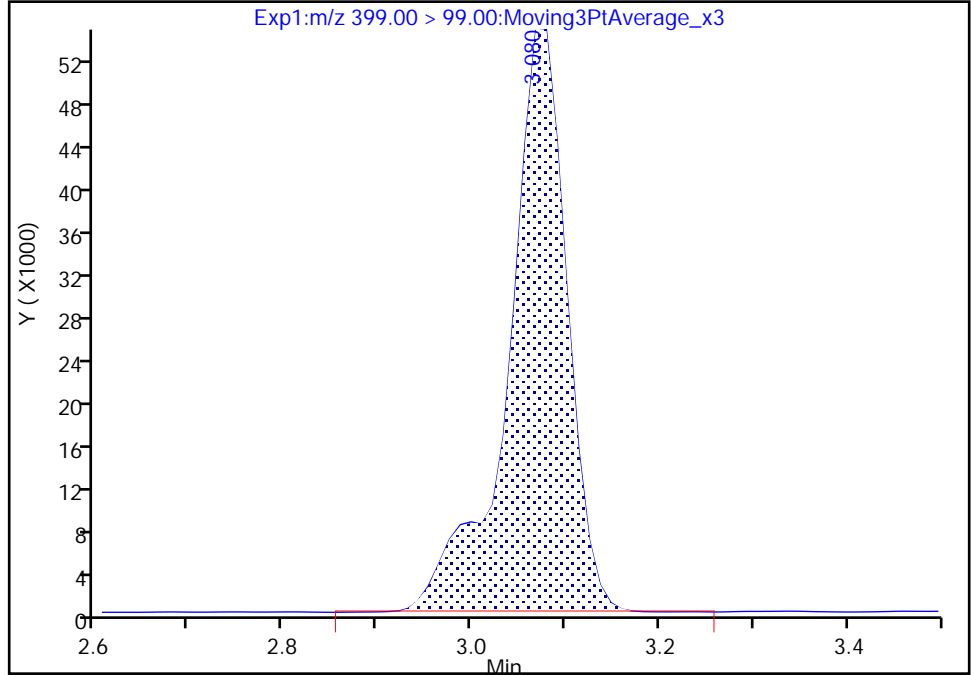
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

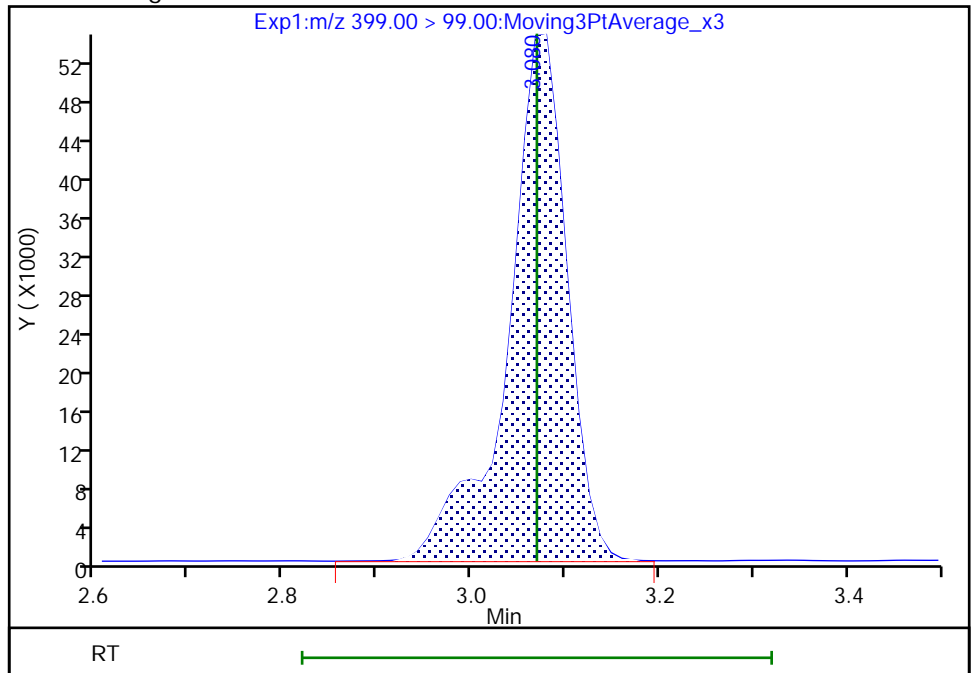
RT: 3.08
Area: 239756
Amount: 0.891201
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 239504
Amount: 0.890309
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:18:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

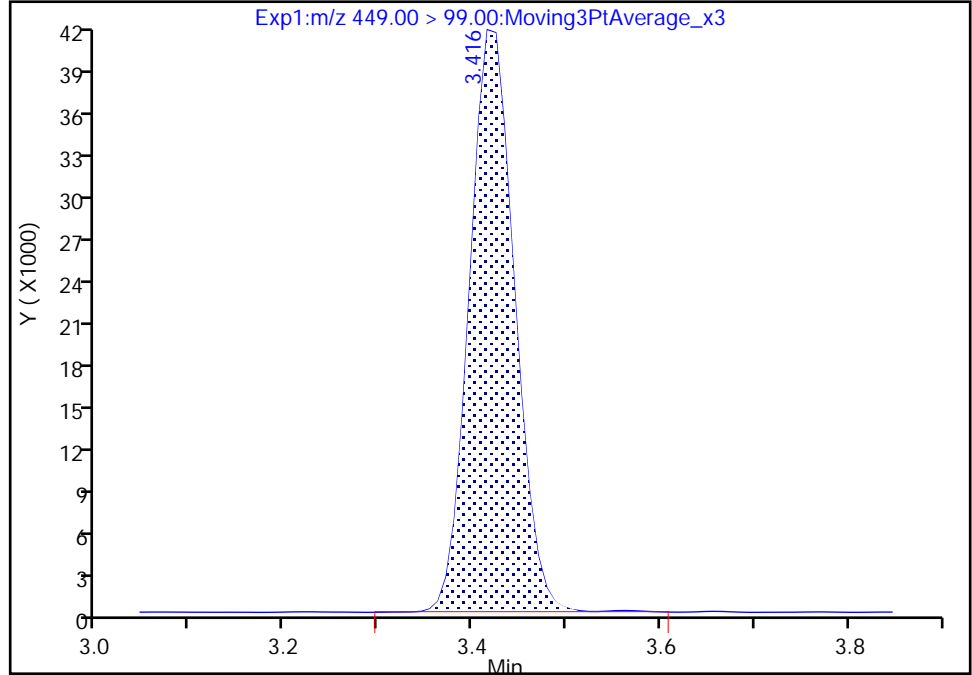
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

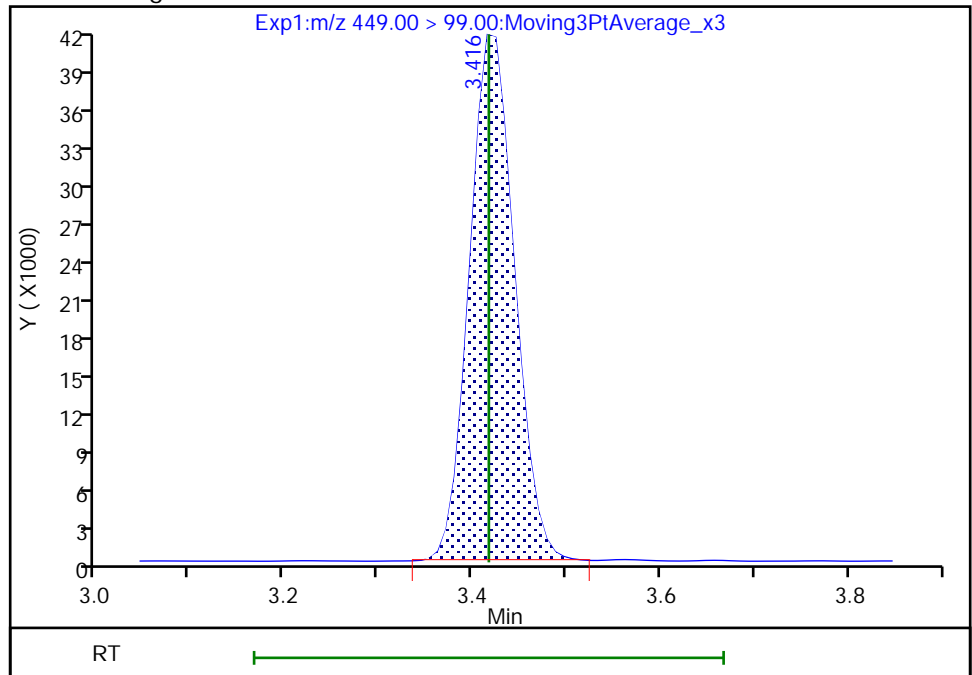
RT: 3.42
Area: 140045
Amount: 0.914864
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 139099
Amount: 0.913286
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:19:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

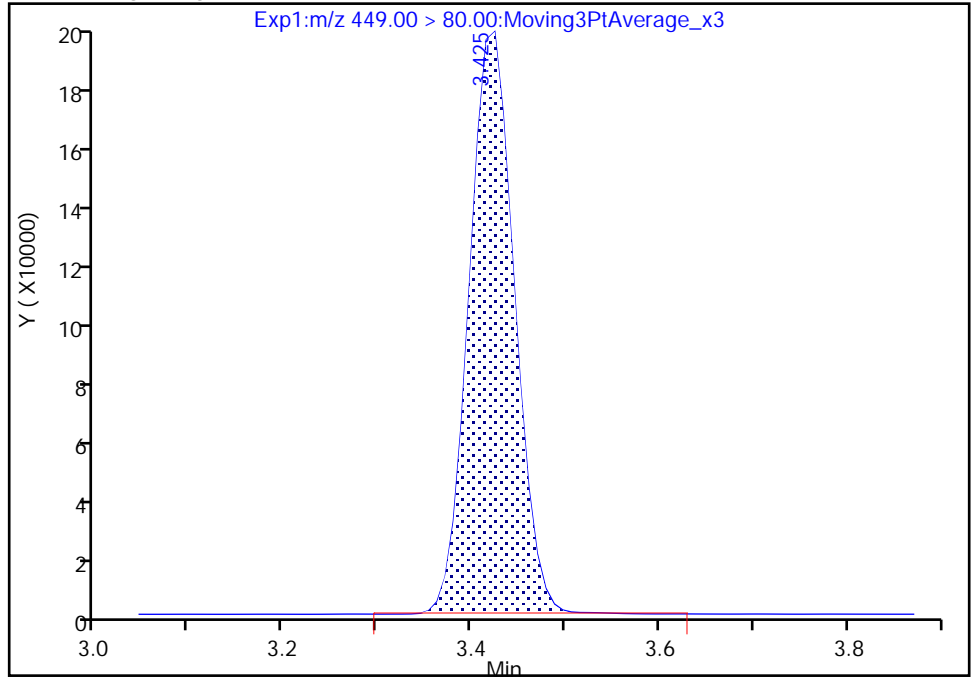
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

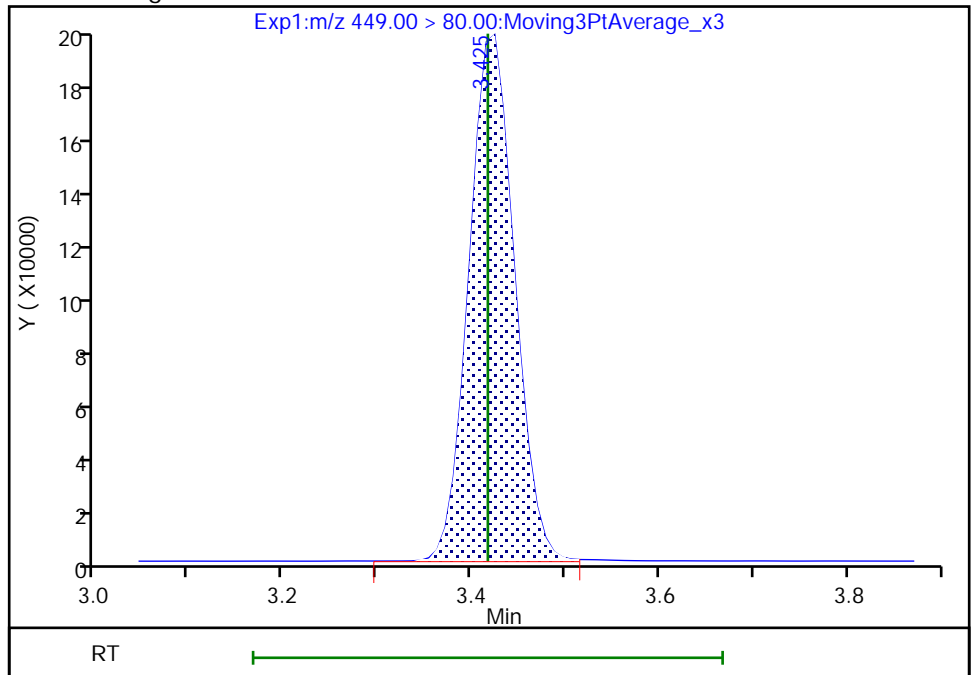
RT: 3.42
Area: 666198
Amount: 0.914864
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 665049
Amount: 0.913286
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:19:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

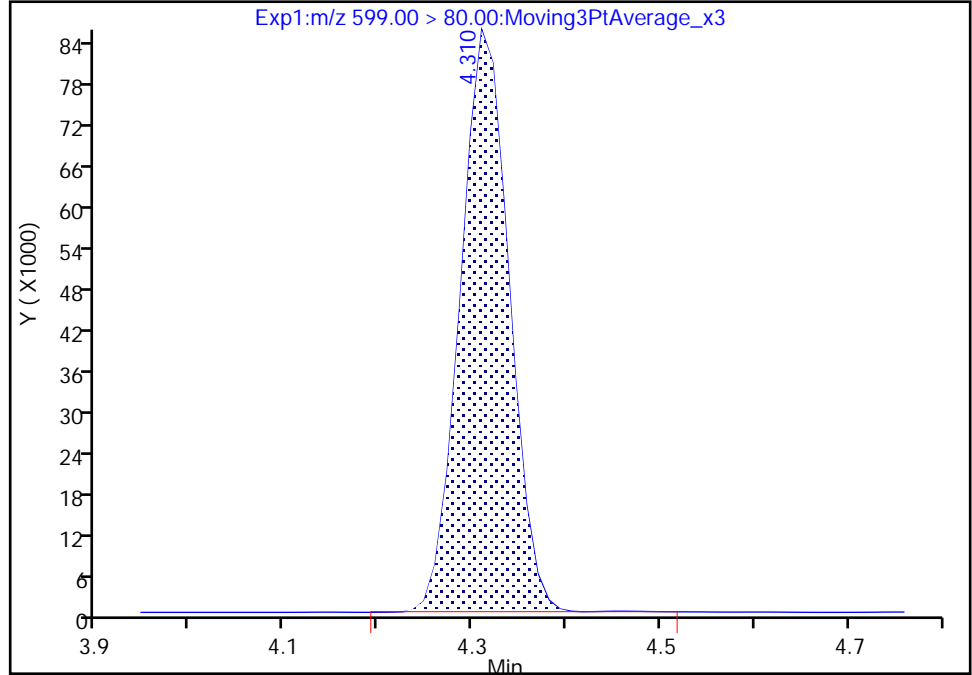
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

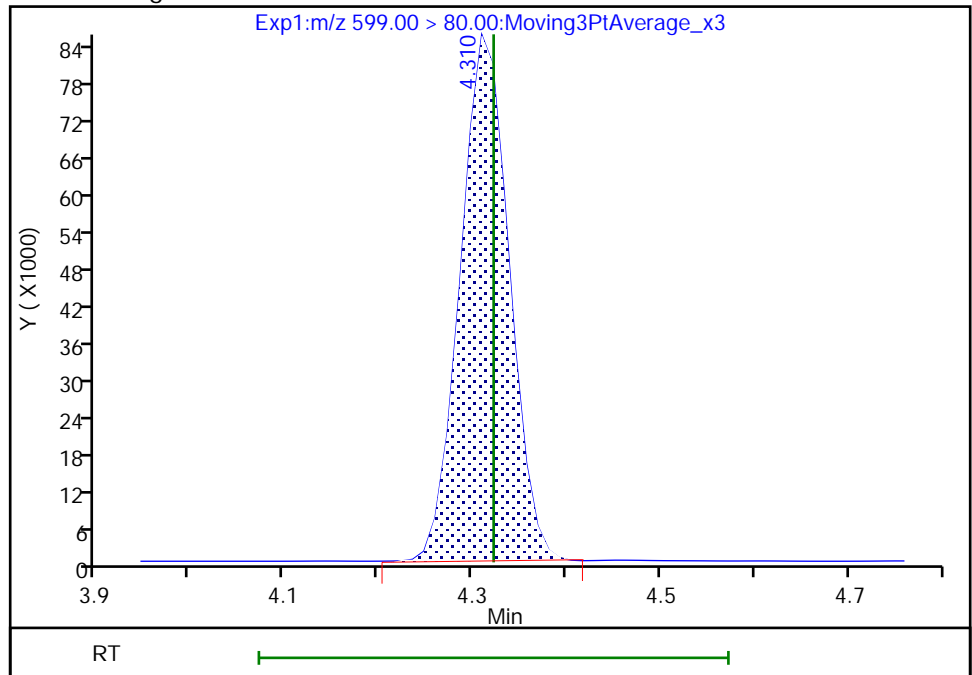
RT: 4.31
Area: 309366
Amount: 0.821922
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 308789
Amount: 0.820389
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:20:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

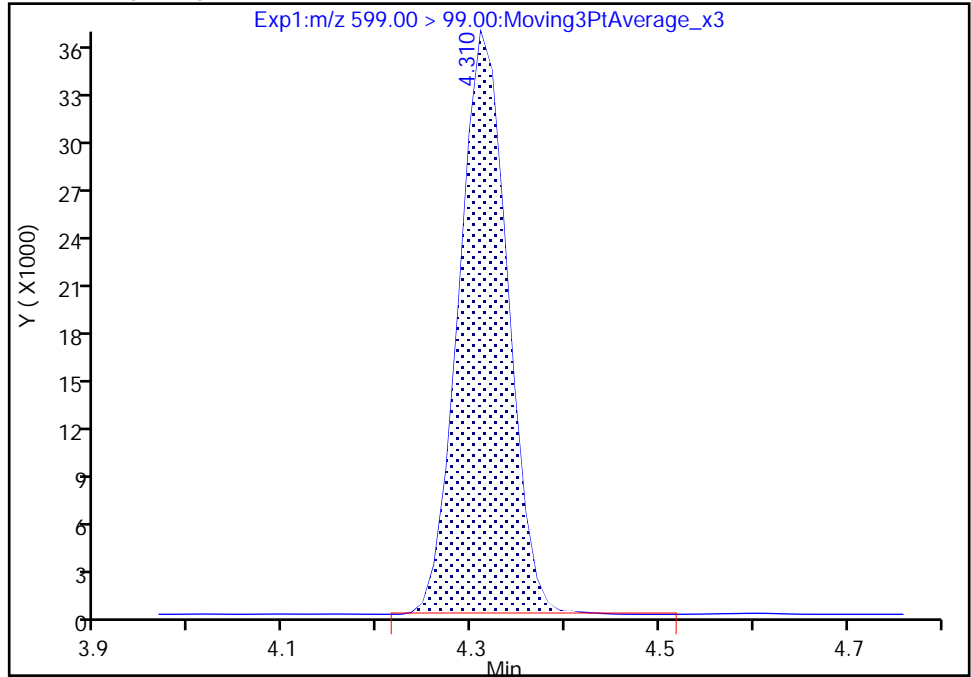
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

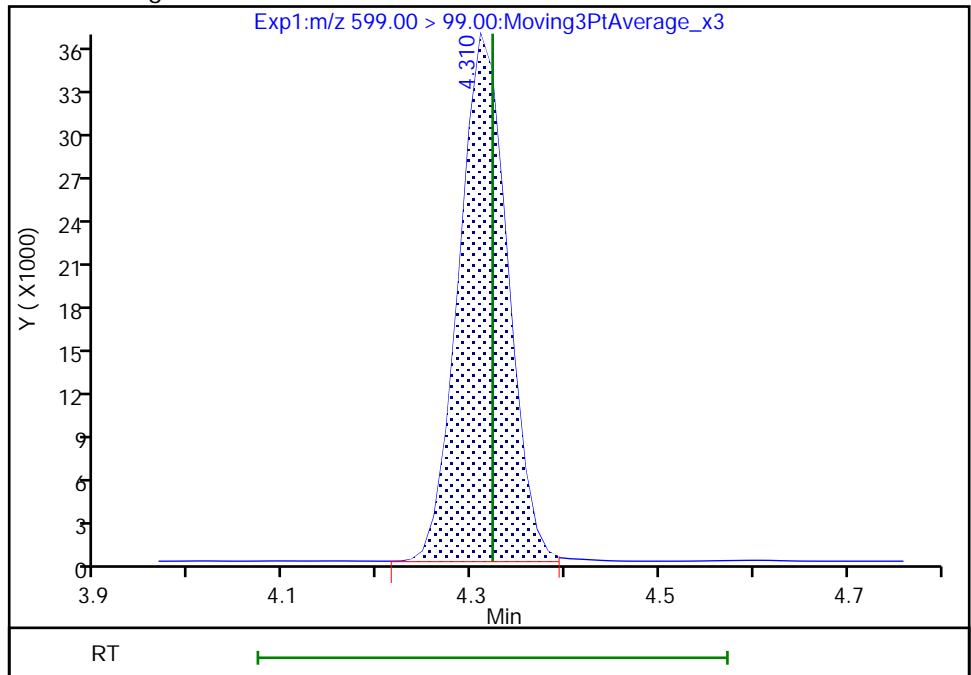
RT: 4.31
Area: 130968
Amount: 0.821922
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 130477
Amount: 0.820389
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:20:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

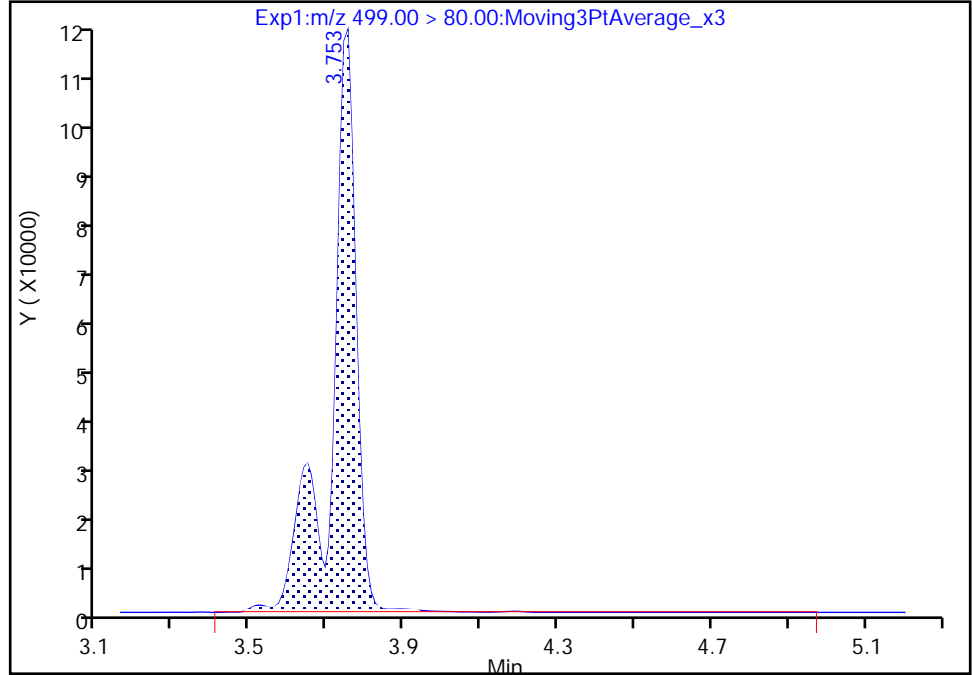
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

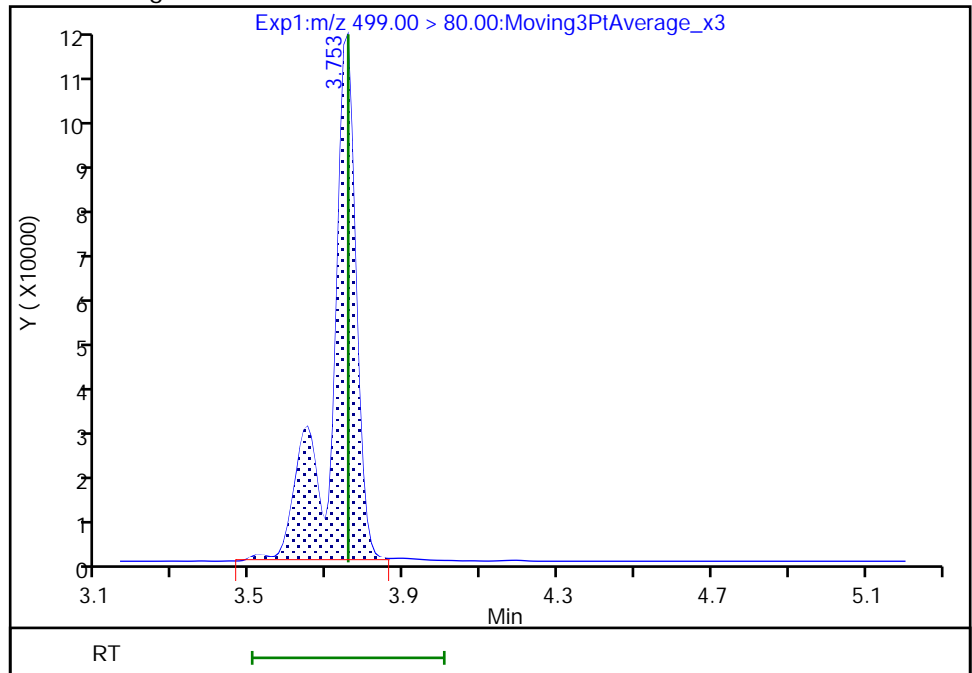
RT: 3.75
Area: 527606
Amount: 0.867855
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 514109
Amount: 0.845653
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:19:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

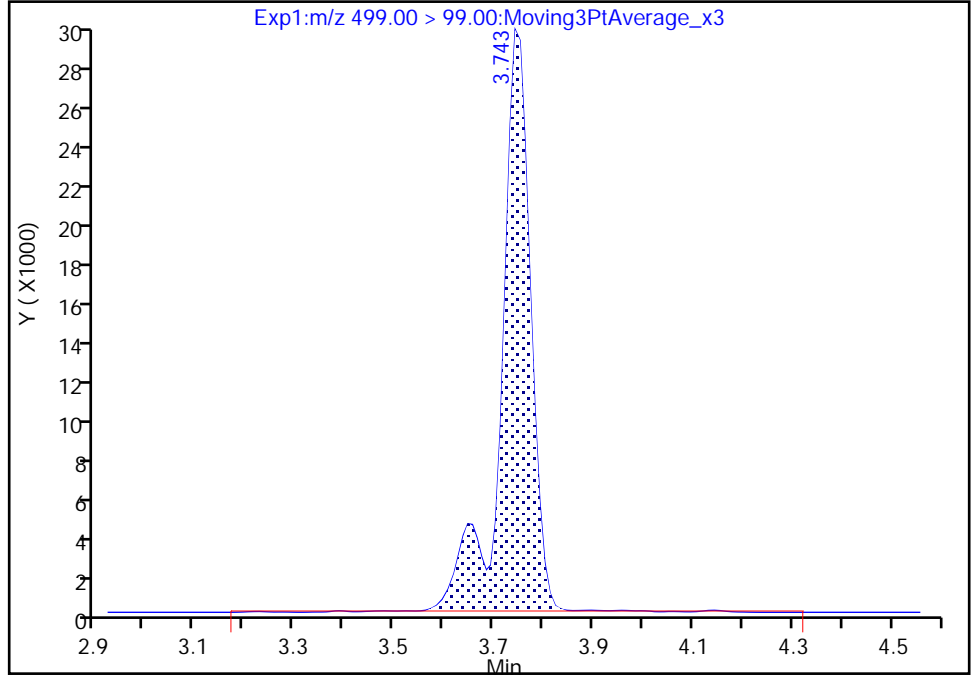
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

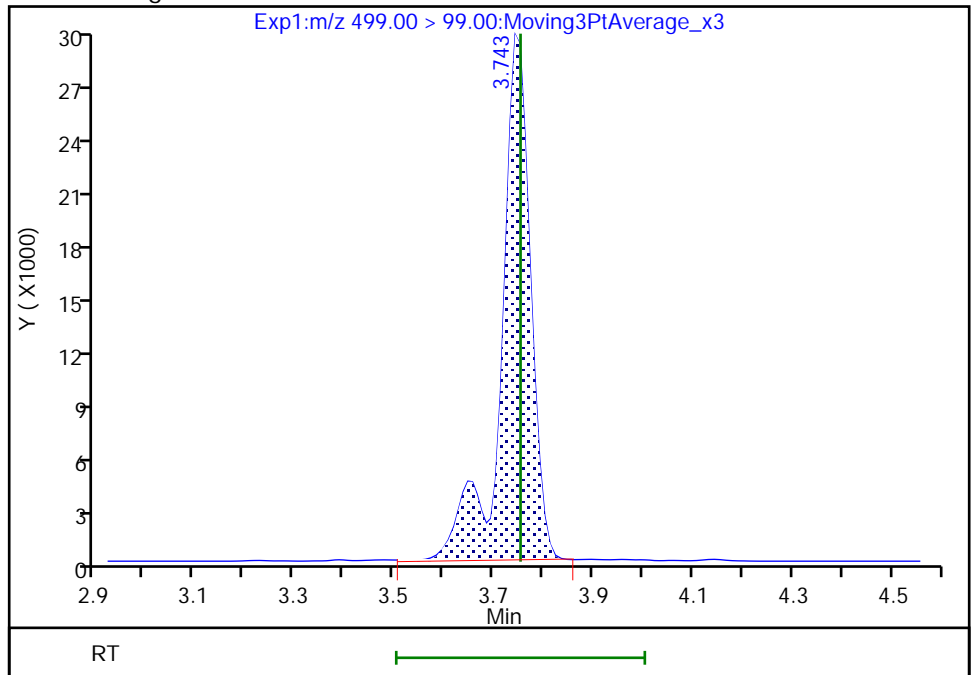
RT: 3.74
Area: 122673
Amount: 0.867855
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 119327
Amount: 0.845653
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:20:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

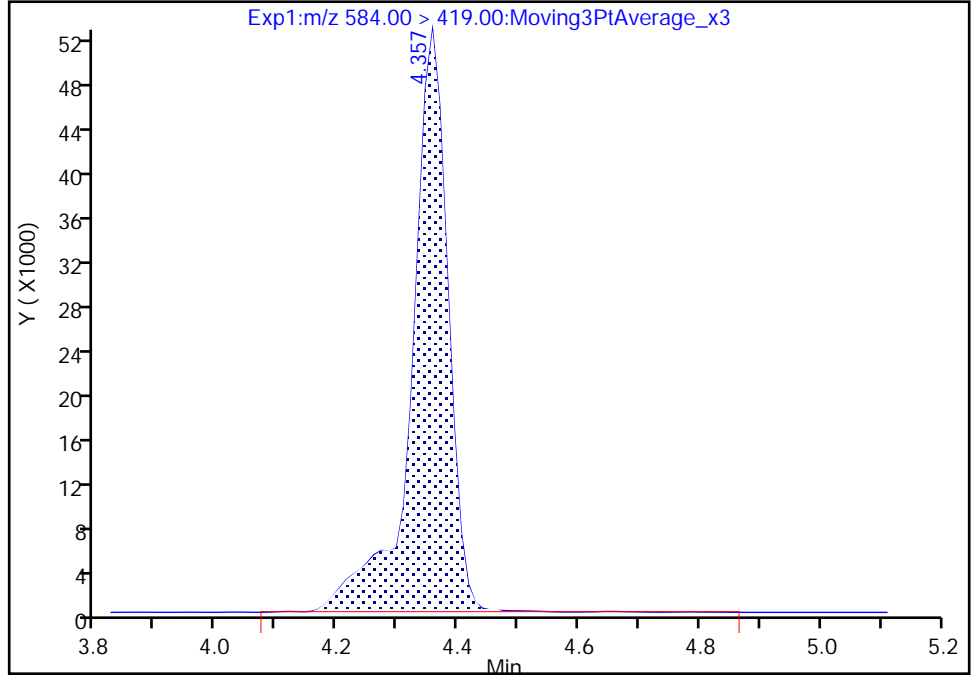
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

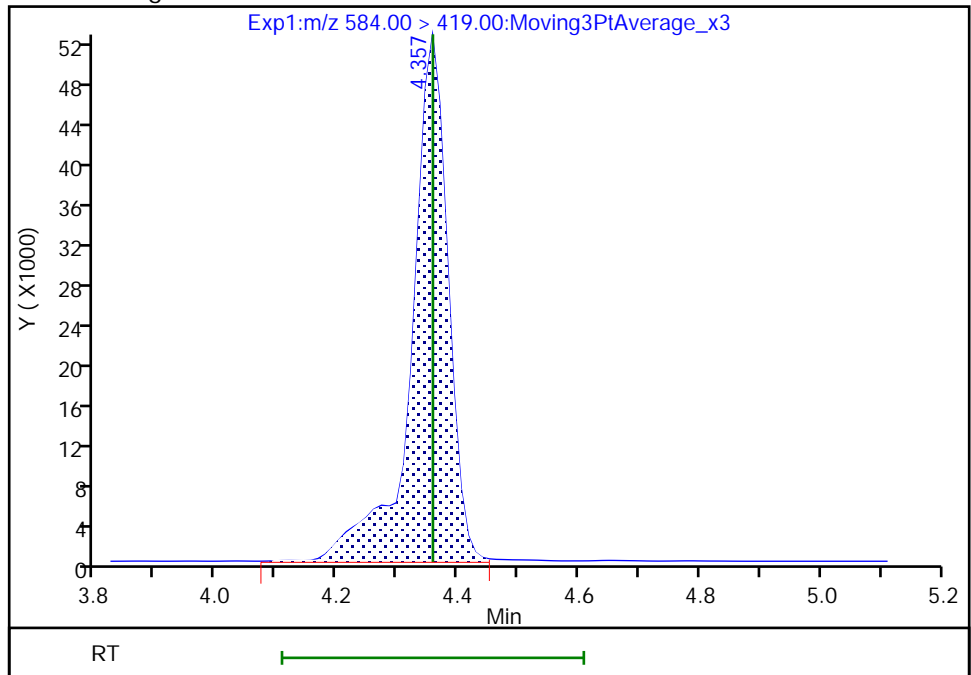
RT: 4.36
Area: 224328
Amount: 0.981261
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 222833
Amount: 0.974722
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:20:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

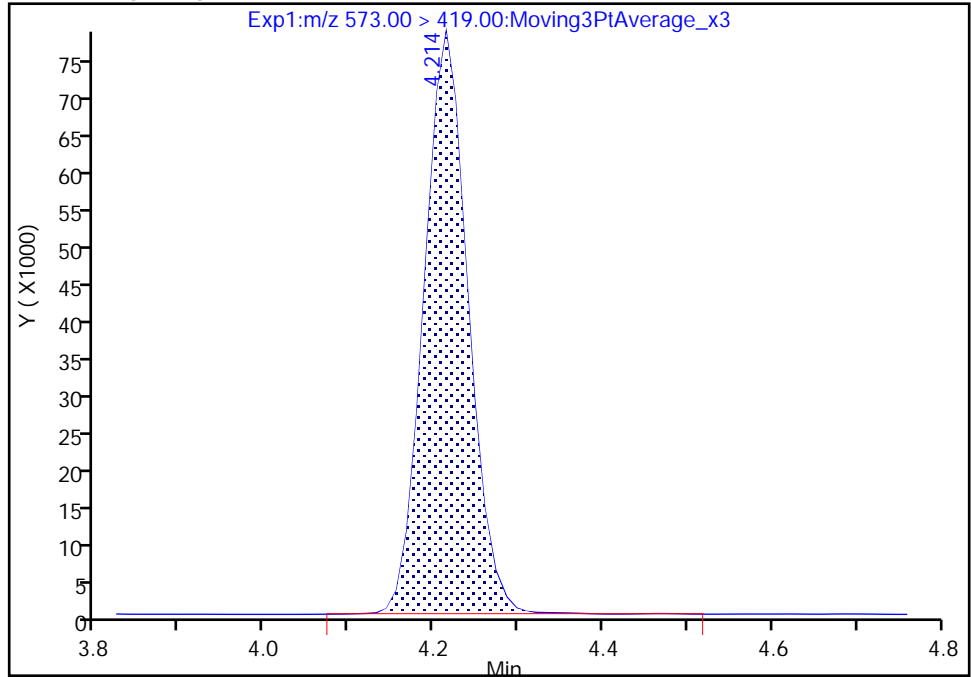
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B03.d
Injection Date: 23-Jan-2023 19:48:43 Instrument ID: LC812
Lims ID: LCS 200-187735/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 3 Worklist Smp#: 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

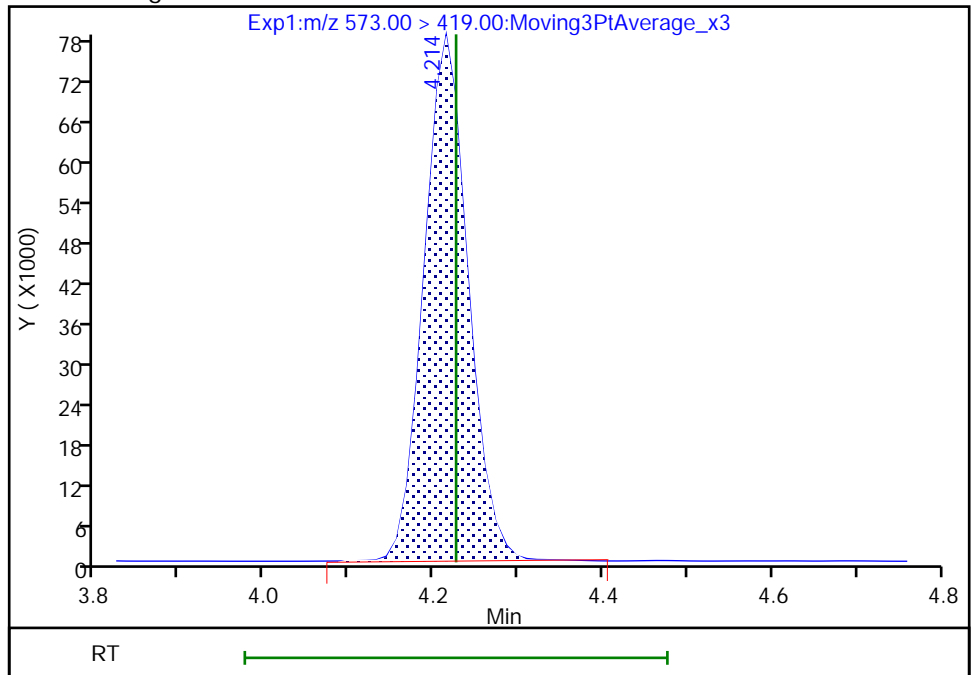
RT: 4.21
Area: 283682
Amount: 1.086229
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 283224
Amount: 1.084475
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:18:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187806/2-A
 Matrix: Solid Lab File ID: PA230126A07.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00 (g) Date Analyzed: 01/26/2023 20:35
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.051		0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.115		0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	2.076		0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.975		0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	1.750		0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	2.221		0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	1.984		0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.852		0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	1.926		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.909		0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.080		0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.951		0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.836		0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.912		0.20	0.023
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.626		0.20	0.019
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.724		0.20	0.11
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.247		0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.928	J	2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.989	J	2.00	0.083
27619-97-2	6:2 FTS	1.904	J	2.00	0.057
39108-34-4	8:2 FTS	1.932	J	2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187806/2-A
 Matrix: Solid Lab File ID: PA230126A07.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.00(g) Date Analyzed: 01/26/2023 20:35
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	85		50-150
STL00995	13C5 PFNA	80		50-150
STL00992	13C4 PFBA	76		50-150
STL00993	13C2 PFHxA	78		50-150
STL00996	13C2 PFDA	80		50-150
STL00997	13C2 PFUnA	86		50-150
STL00994	18O2 PFHxS	63		50-150
STL00998	13C2 PFDoA	79		50-150
STL00991	13C4 PFOS	73		50-150
STL01056	13C8 FOSA	64		50-150
STL01893	13C5 PFPeA	67		50-150
STL02116	13C2 PFTeDA	72		50-150
STL02118	d3-NMeFOSAA	93		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	80		50-150
STL02337	13C3 PFBS	62		50-150
STL02280	M2-8:2 FTS	85		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A07.d
 Lims ID: LCS 200-187806/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Jan-2023 20:35:29 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-187806/2-A
 Misc. Info.: 200-0054135-007 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620
 First Level Reviewer: khanphomeea Date: 27-Jan-2023 10:17:37
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	1647965	0.9529	76.2	20381	
2 Perfluorobutanoic acid	212.90 > 169.00	2.085	2.094	-0.009	1.000	1335349	1.03	103	169	
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1174544	0.8401	67.2	6164	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	1138167	1.06	106	38.6	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1109885	0.7232	62.2	113485	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.411	2.384	0.027	1.006	997825	0.9756	Target=2.10	110	2667
	298.90 > 99.00	2.411	2.384	0.027	1.006	509790	1.96(1.05-3.15)		413	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.000	235661	1.05	112	2501	
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	88492	0.7131	61.1	188	
D 7 13C2 PFHxA	315.00 > 270.00	2.730	2.694	0.036	0.793	1412094	0.9721	77.8	8090	
6 Perfluorohexanoic acid	313.00 > 269.00	2.730	2.706	0.024	1.000	1235202	1.04	Target=13.16	104	345
	313.00 > 119.00	2.730	2.706	0.024	1.000	96366	12.82(6.58-19.74)		306	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.883	817550	0.9323	Target=2.90	99.4	1612
	349.00 > 99.00	2.730	2.706	0.024	0.883	294378	2.78(1.45-4.35)		1281	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	164468	0.9137	91.4	3257	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	225111	0.8945		71.6	2913	
D 11 18O2 PFHxS										
403.00 > 84.00	3.091	3.069	0.022	0.898	838388	0.7508		63.5	4552	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.091	3.069	0.022	1.000	714609	0.9182	Target=3.18	101	2833	
399.00 > 99.00	3.091	3.069	0.022	1.000	223742		3.19(1.59-4.77)		952	
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1589955	1.09		87.5	9646	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	1337271	0.9873	Target=4.10	98.7	364	
363.00 > 169.00	3.091	3.069	0.022	1.000	320941		4.17(2.05-6.16)		1432	
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.831	2637279	0.9242	Target=2.96	98.1	2608	
377.00 > 85.00	3.126	3.104	0.022	0.831	848845		3.11(1.48-4.44)		2758	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	166918	0.9482		79.8	794	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	306371	0.9518		100	407	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.913	692392	0.9562	Target=4.59	100	3772	
449.00 > 99.00	3.434	3.417	0.017	0.913	147430		4.70(2.30-6.89)		1114	
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1637237	1.06		85.0	8088	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1880247	1.25			5467	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	1246990	0.8748	Target=2.71	87.5	117	
413.00 > 169.00	3.443	3.426	0.017	1.000	485110		2.57(1.36-4.07)		2748	
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	594641	0.8758		73.3	3582	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.000	521140	0.8621	Target=4.23	92.9	847	M
499.00 > 99.00	3.763	3.754	0.009	1.000	124113		4.20(2.11-6.34)		778	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	1356361	1.11	Target=8.78	111	263	
463.00 > 169.00	3.773	3.774	-0.001	1.000	146592		9.25(4.39-13.17)		2861	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1494656	1.00		79.7	8083	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	1453566	1.01		108	5993	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	437273	0.8709	Target=2.37	90.7	2927	
549.00 > 99.00	4.052	4.043	0.009	1.077	199391		2.19(1.18-3.55)		2278	
D 23 13C2 PFDA										
515.00 > 470.00	4.084	4.074	0.010	1.186	1533607	1.00		79.7	9038	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.000	1301641	0.99	Target=11.13	99.2	570	
513.00 > 169.00	4.084	4.074	0.010	1.000	118586		10.98(5.56-16.69)		738	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	224520	1.02		85.0	1743	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	328578	0.9661		101	1993	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	905996	1.12		112	3501	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	1002300	0.8009		64.1	3235	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	353671	1.17		93.5	1109	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	245878	0.9638		96.4	732	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.148	304306	0.8131	Target=2.45	84.3	3700	
599.00 > 99.00	4.322	4.322	0.0	1.148	124515		2.44(1.23-3.68)		1809	
D 30 13C2 PFUnA										
565.00 > 520.00	4.346	4.346	0.0	1.262	1435372	1.08		86.4	9028	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.346	4.346	0.0	1.000	1160654	0.9259	Target=10.33	92.6	402	
563.00 > 169.00	4.346	4.346	0.0	1.000	106843		10.86(5.17-15.50)		1287	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	264998	0.99		99.5	2046	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	358495	1.23		98.6	811	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.183	2113958	0.9466		100	5088	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.594	4.584	0.010	1.000	1031967	0.9630	Target=8.10	96.3	123	
613.00 > 169.00	4.594	4.584	0.010	1.000	128122		8.05(4.05-12.15)		1748	
D 36 13C2 PFDaA										
615.00 > 570.00	4.594	4.584	0.010	1.334	1315753	0.9873		79.0	4914	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	190545	0.8860		91.9	3926	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.267	128089	0.8425	Target=0.51	87.0	3318	
699.00 > 99.00	4.769	4.770	-0.001	1.267	218779		0.59(0.26-0.77)		3362	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.047	1021515	0.9543	Target=6.06	95.4	140	
663.00 > 169.00	4.798	4.799	-0.001	1.044	165236		6.18(3.03-9.09)		1819	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	106772	1.04	Target=0.83	104	1495	
713.00 > 219.00	4.994	4.998	-0.004	0.998	114933		0.93(0.42-1.25)		1367	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1027596	0.8965		71.7	8771	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.371	5.362	0.009	1.002	1013873	1.13	Target=6.74	113	182	
813.00 > 169.00	5.360	5.362	-0.002	1.000	152164		6.66(3.37-10.11)		1730	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1211342	0.8623		69.0	5393	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.711	0.008	1.067	781606	1.00	Target=6.99	99.7	170	M
913.00 > 169.00	5.719	5.711	0.008	1.067	105545		7.41(3.50-10.49)		1208	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A07.d

Injection Date: 26-Jan-2023 20:35:29

Instrument ID: LC812

Lims ID: LCS 200-187806/2-A

Client ID:

Operator ID: LC812user

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

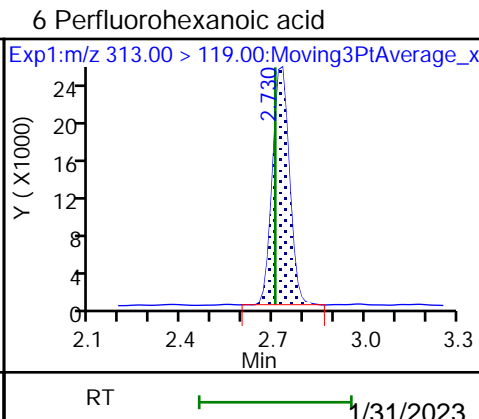
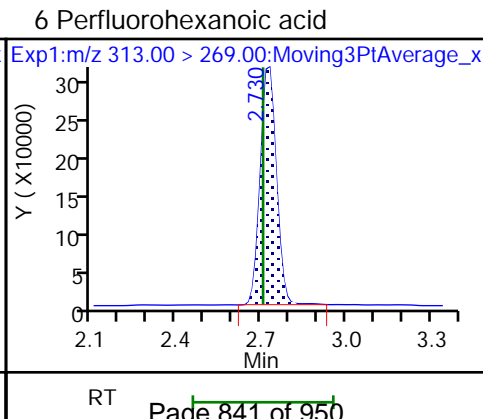
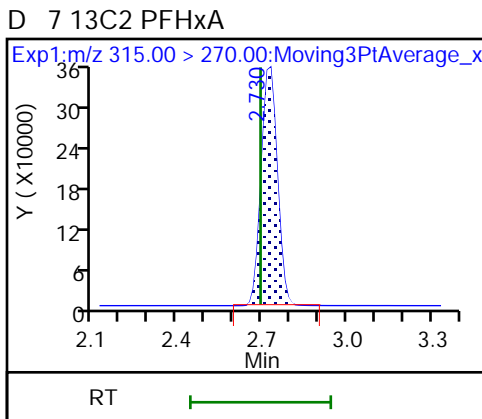
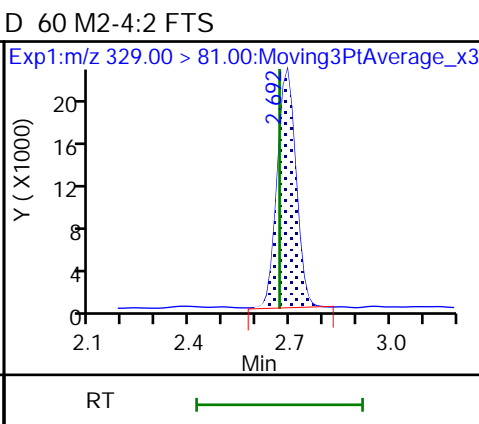
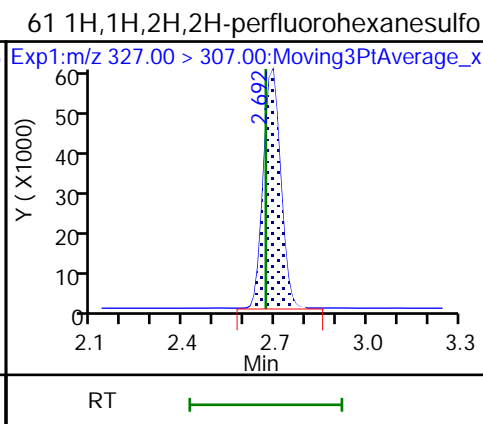
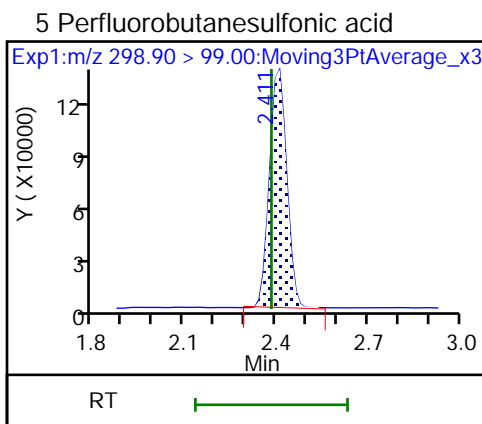
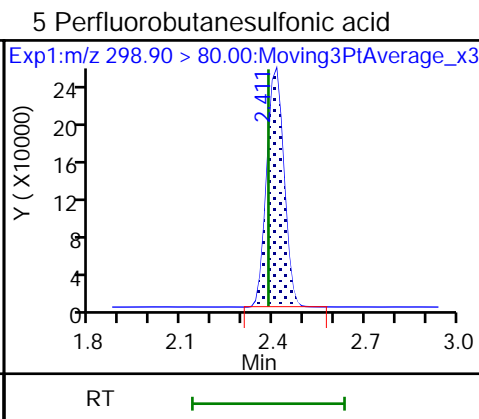
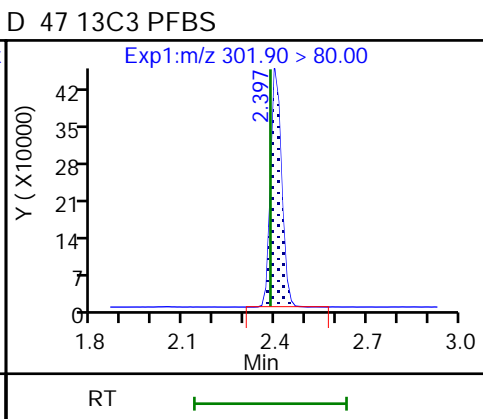
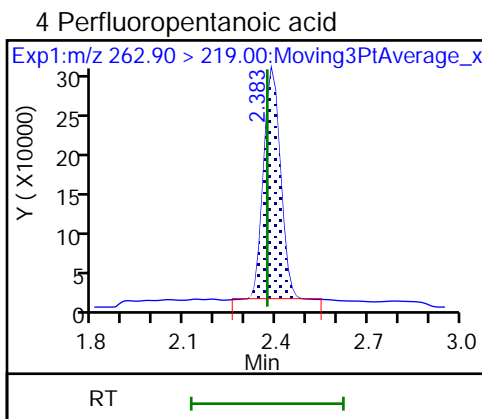
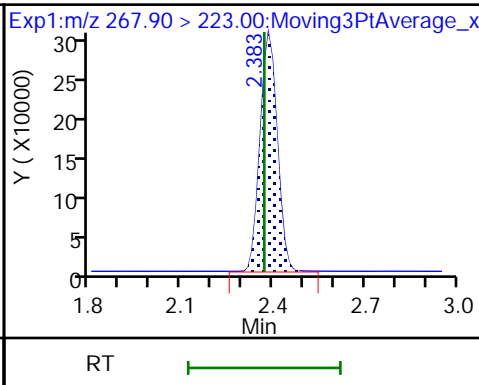
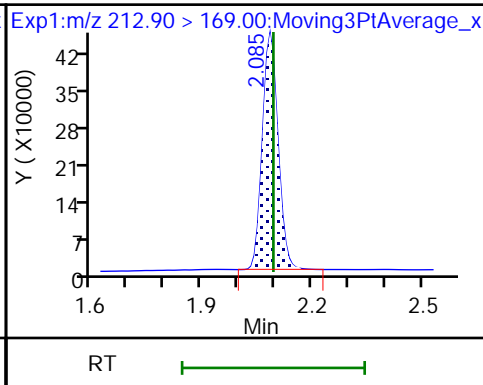
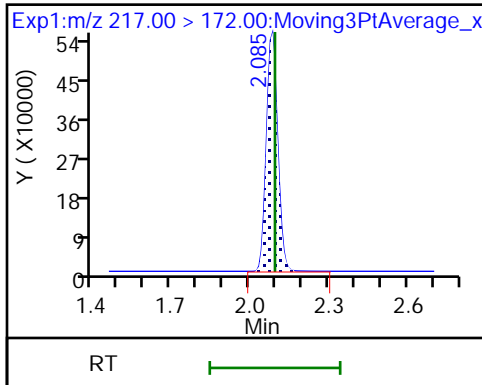
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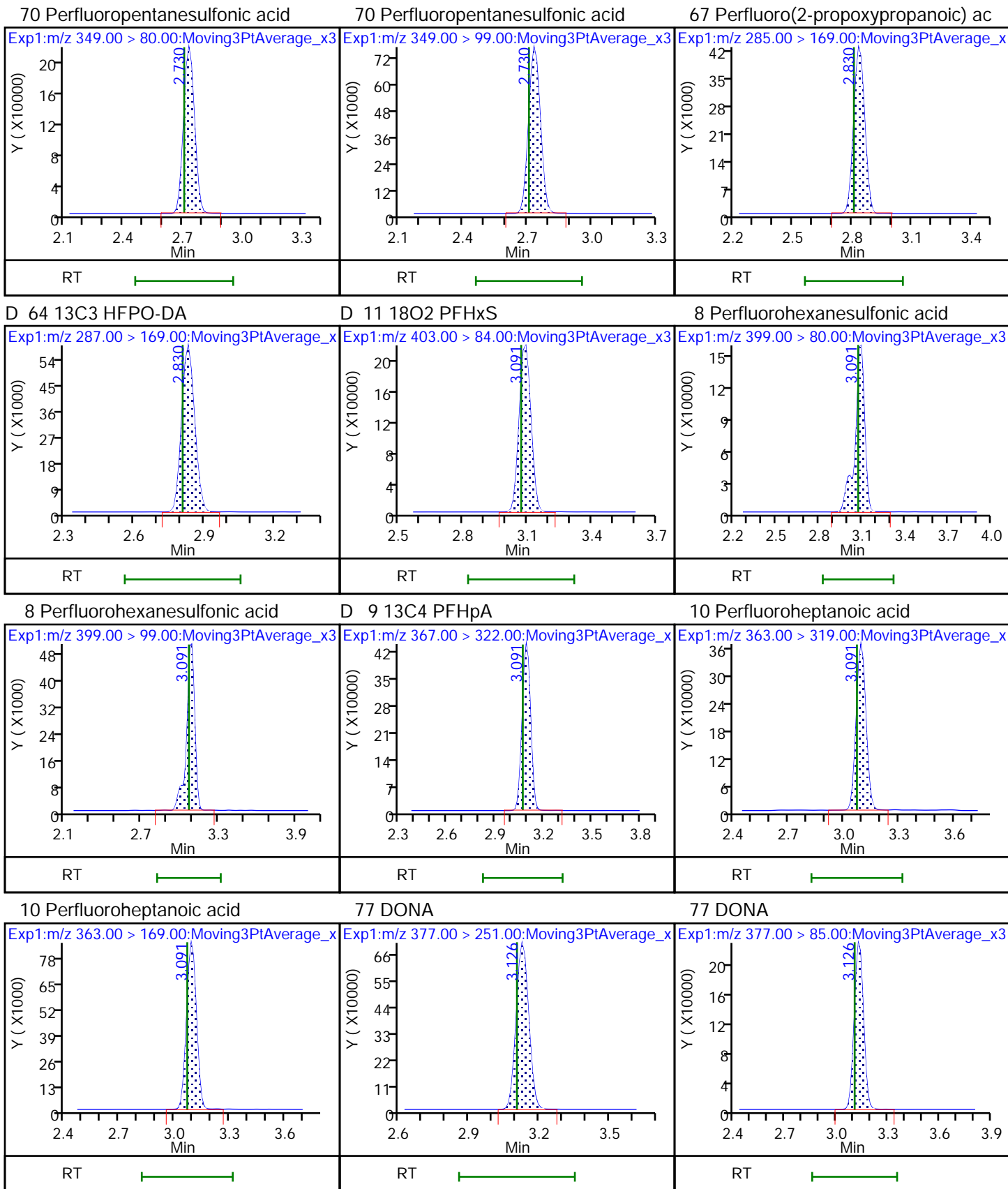
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D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

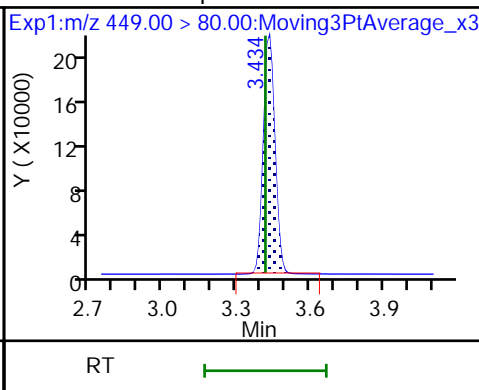
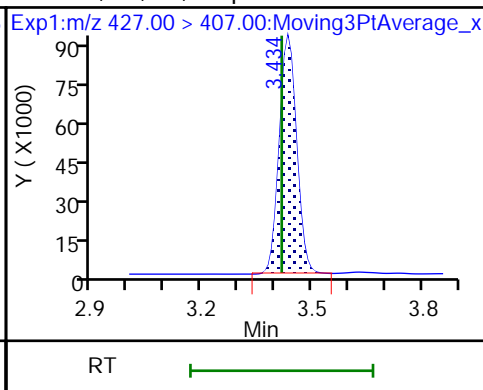
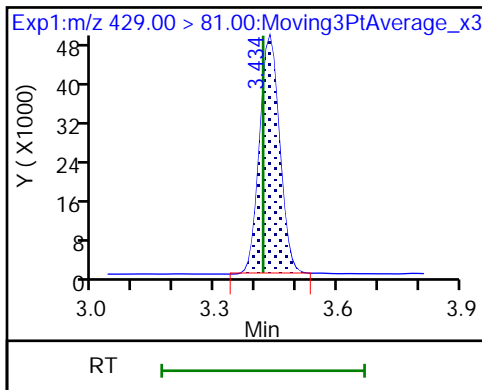




D 12 M2-6:2 FTS

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

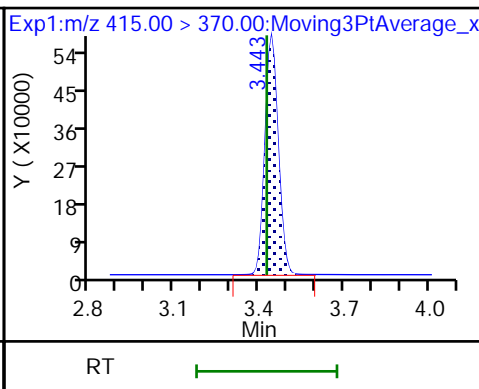
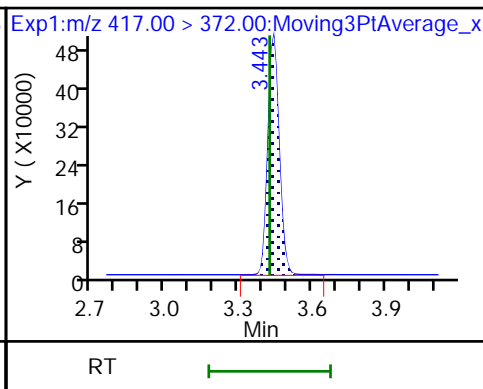
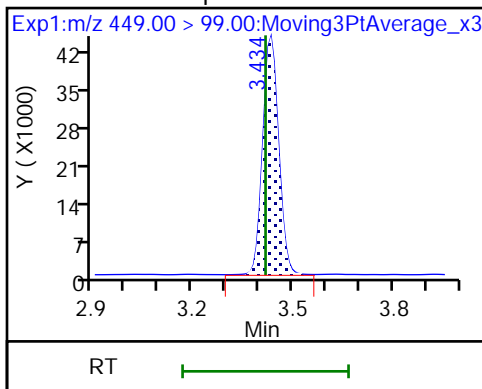
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

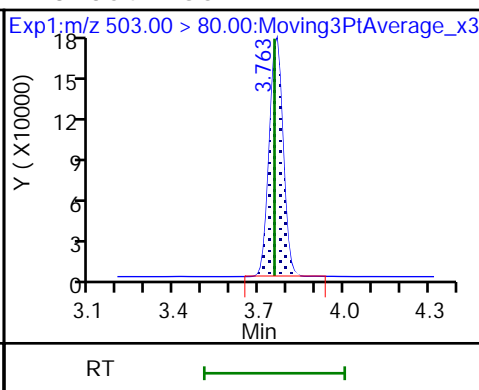
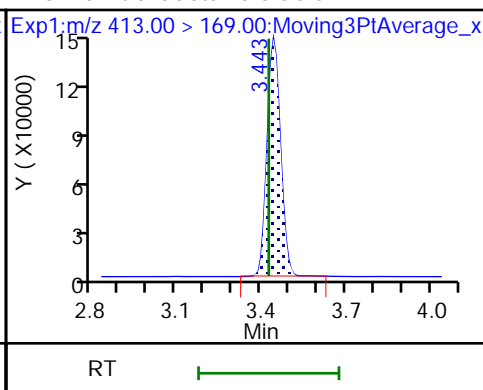
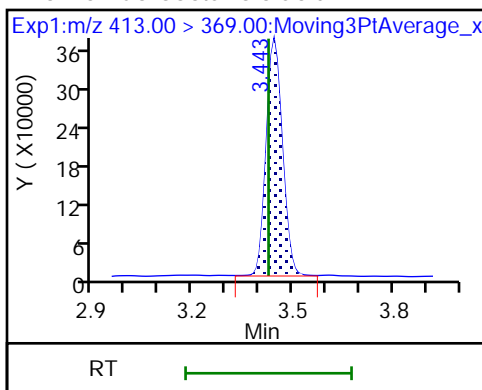
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

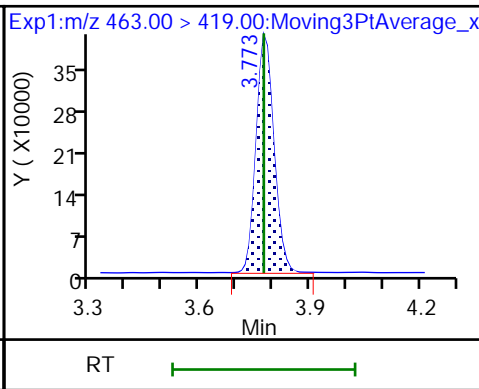
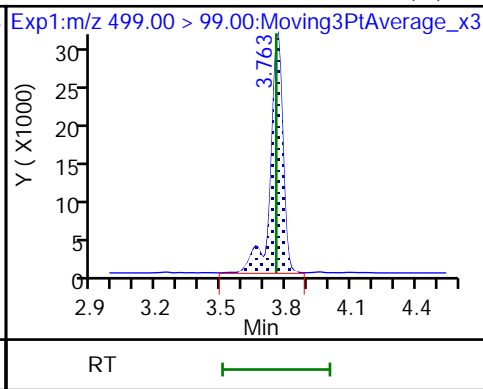
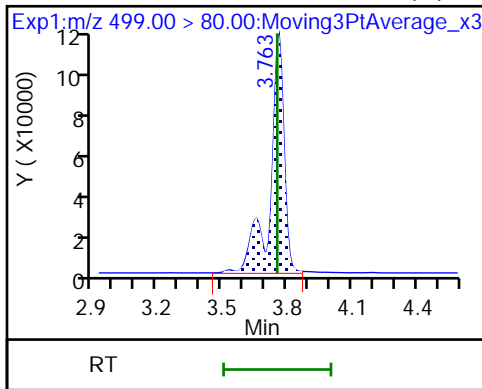
D 18 13C4 PFOS

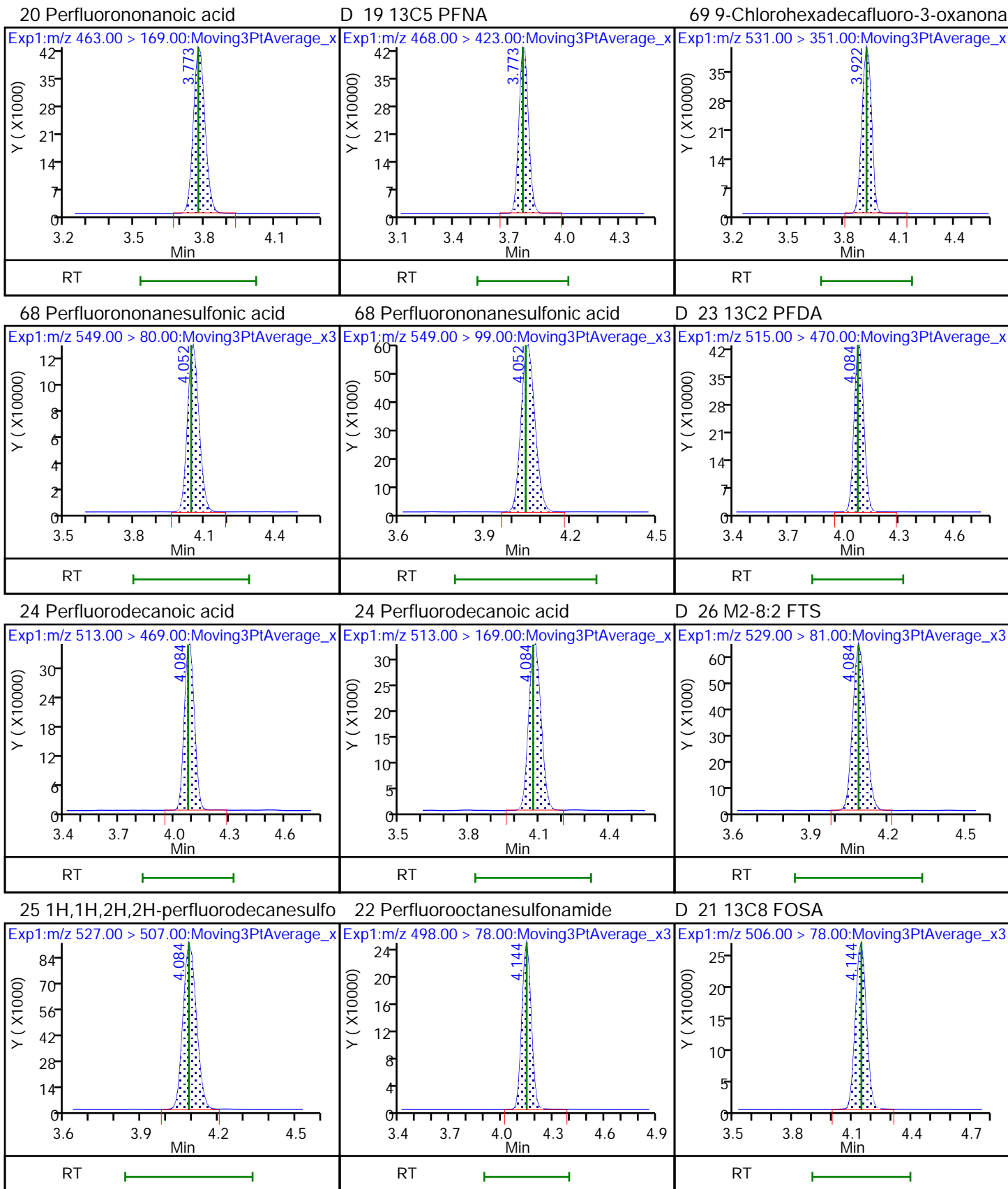


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

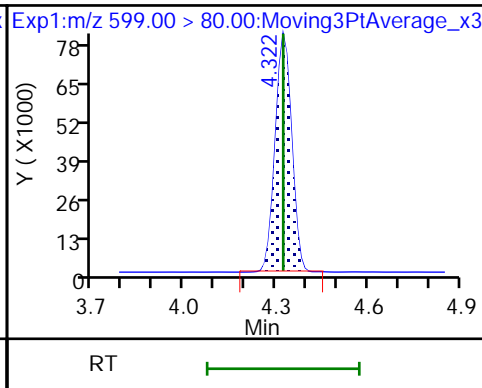
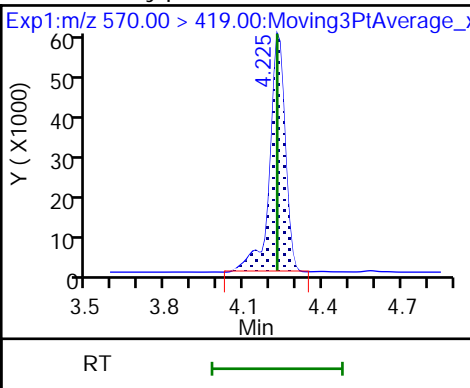
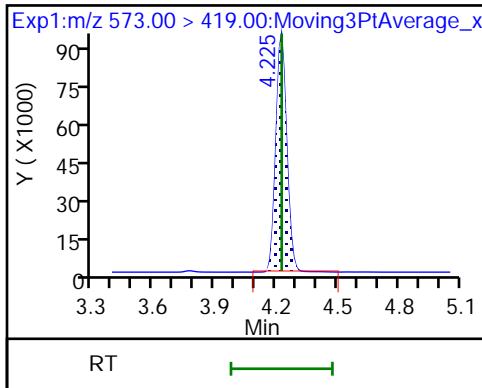




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

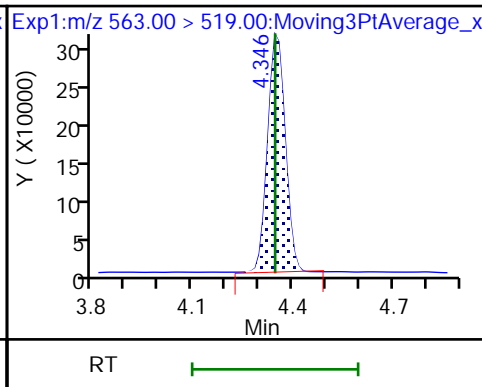
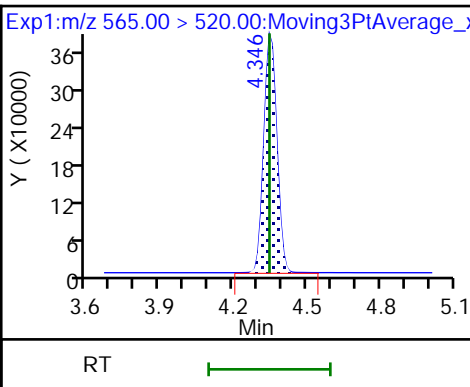
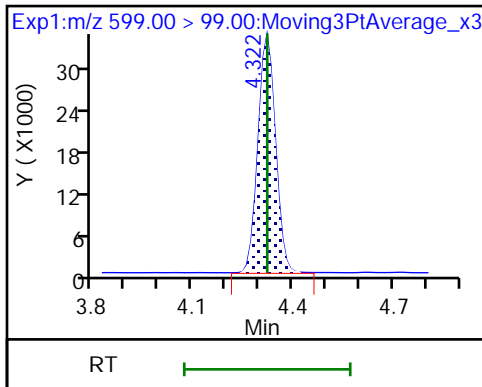
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

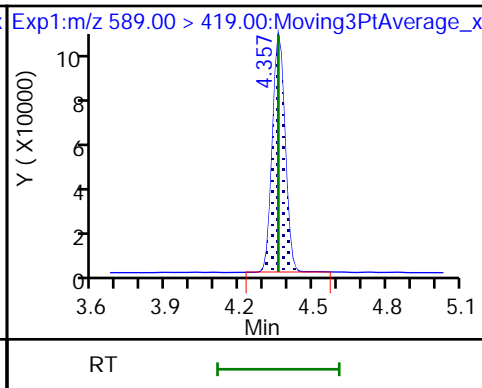
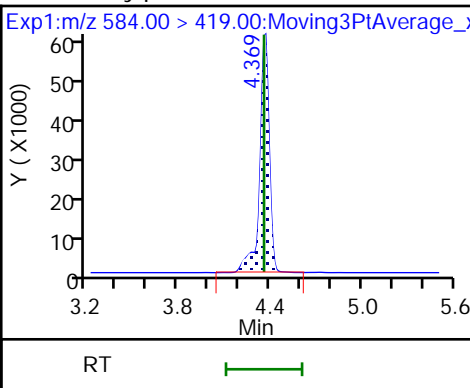
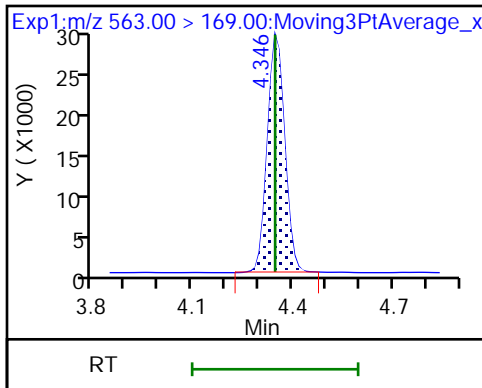
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid

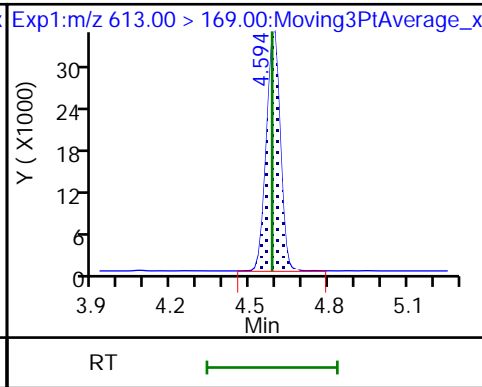
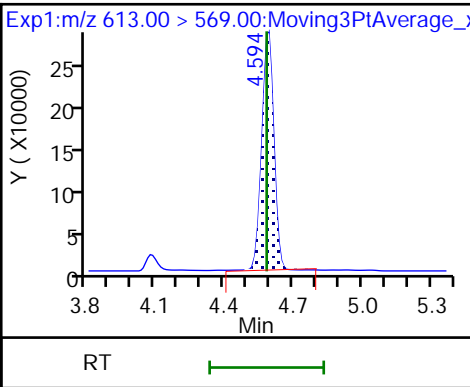
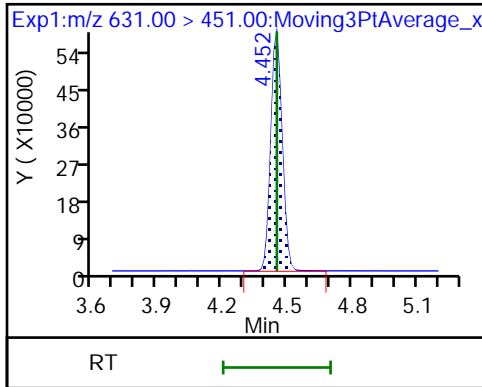
D 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

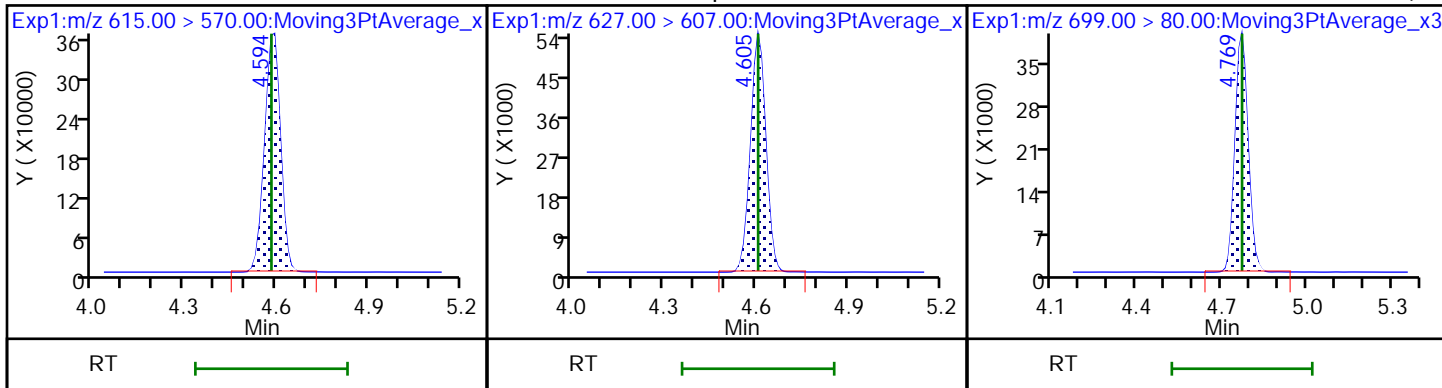
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

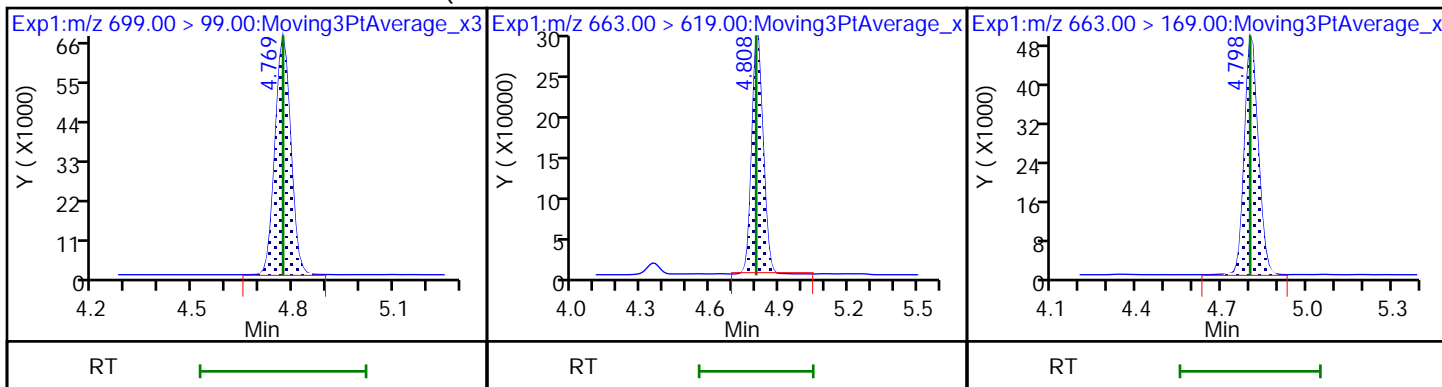
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

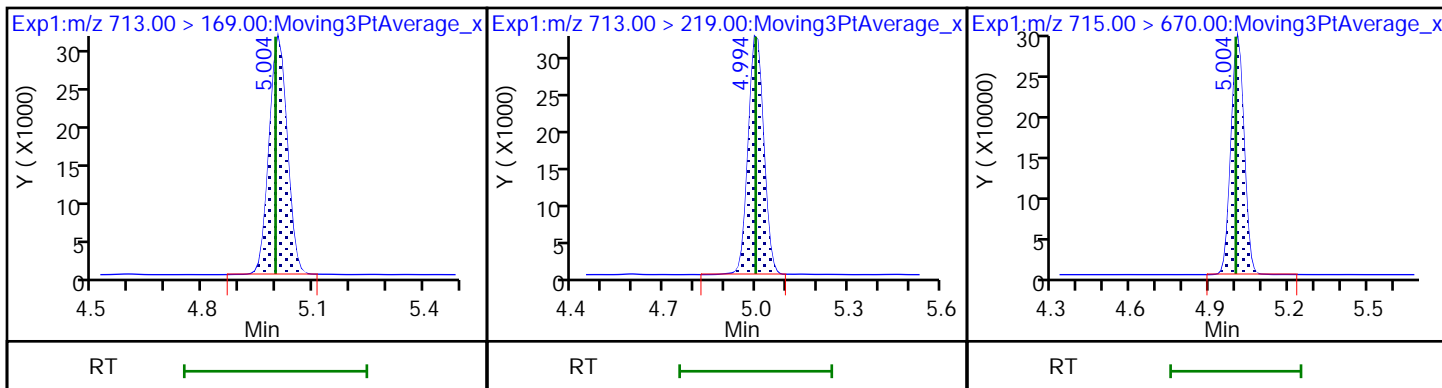
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

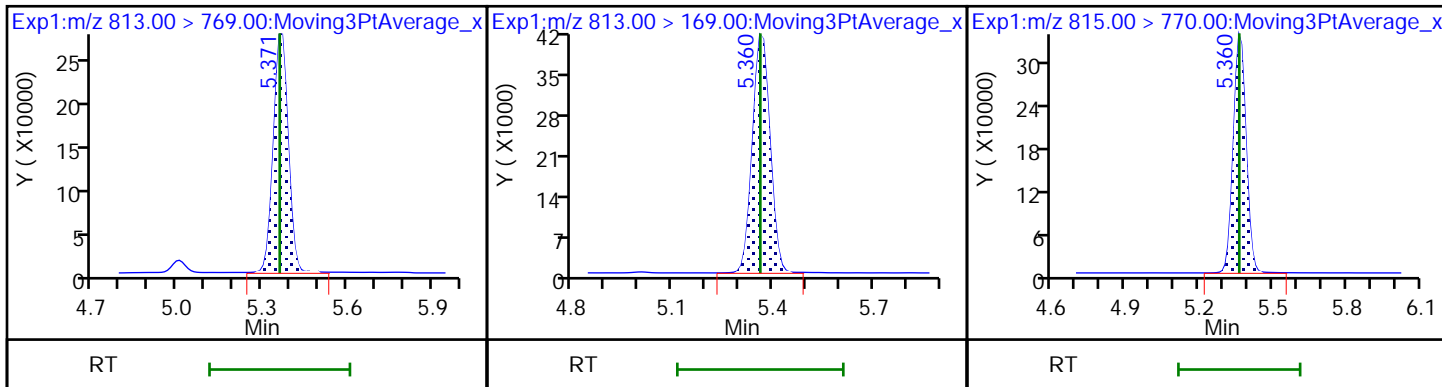
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

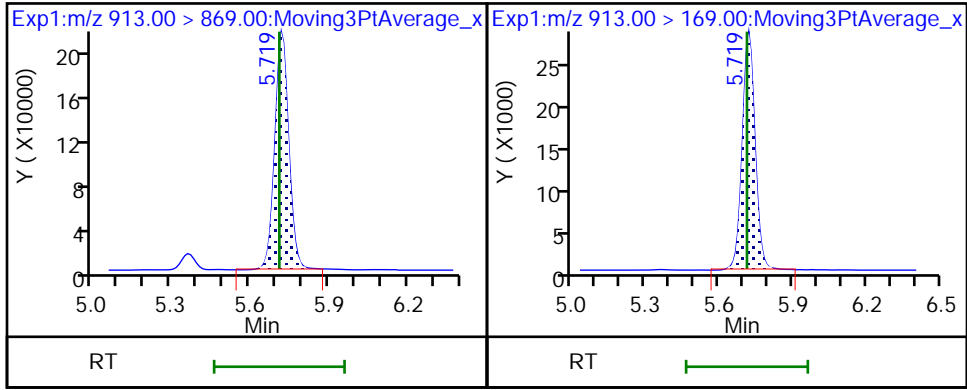
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

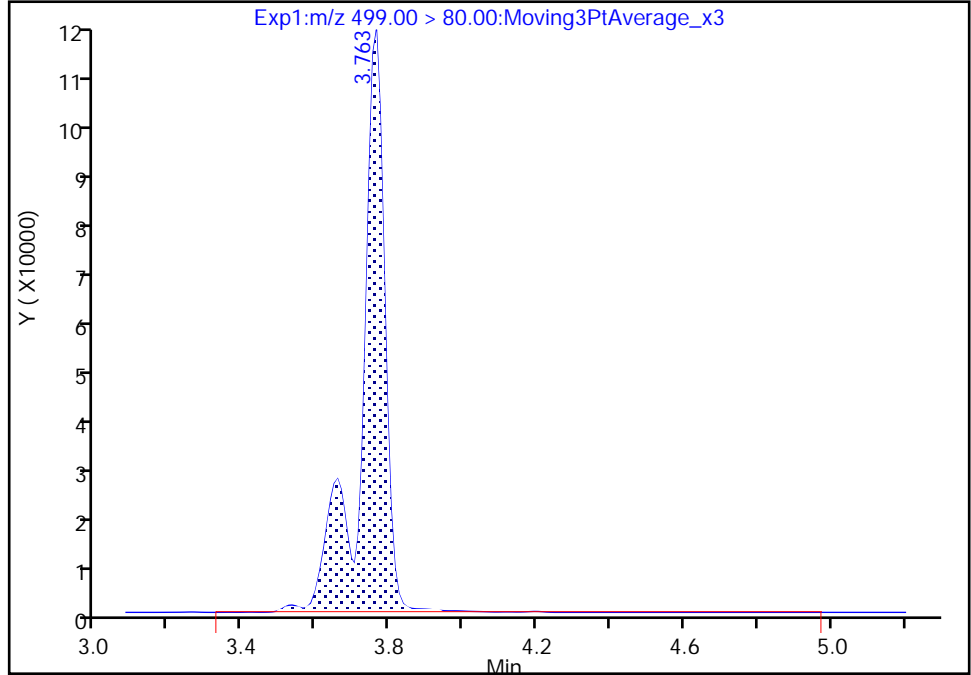
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Injection Date: 26-Jan-2023 20:35:29 Instrument ID: LC812
Lims ID: LCS 200-187806/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

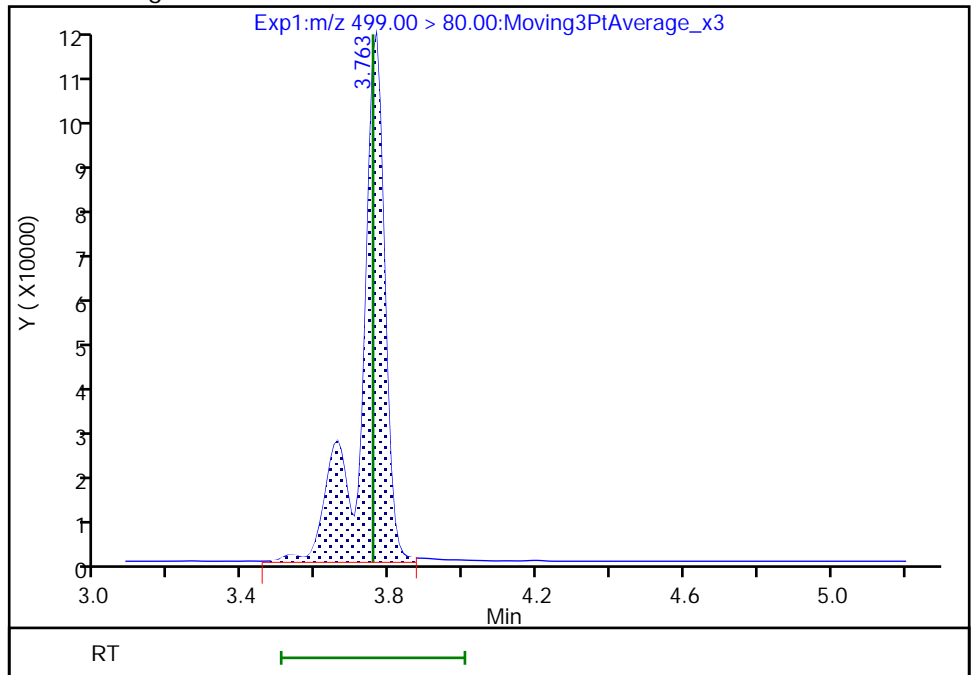
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Area: 527436
Amount: 0.872511
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 521140
Amount: 0.862096
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:49:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

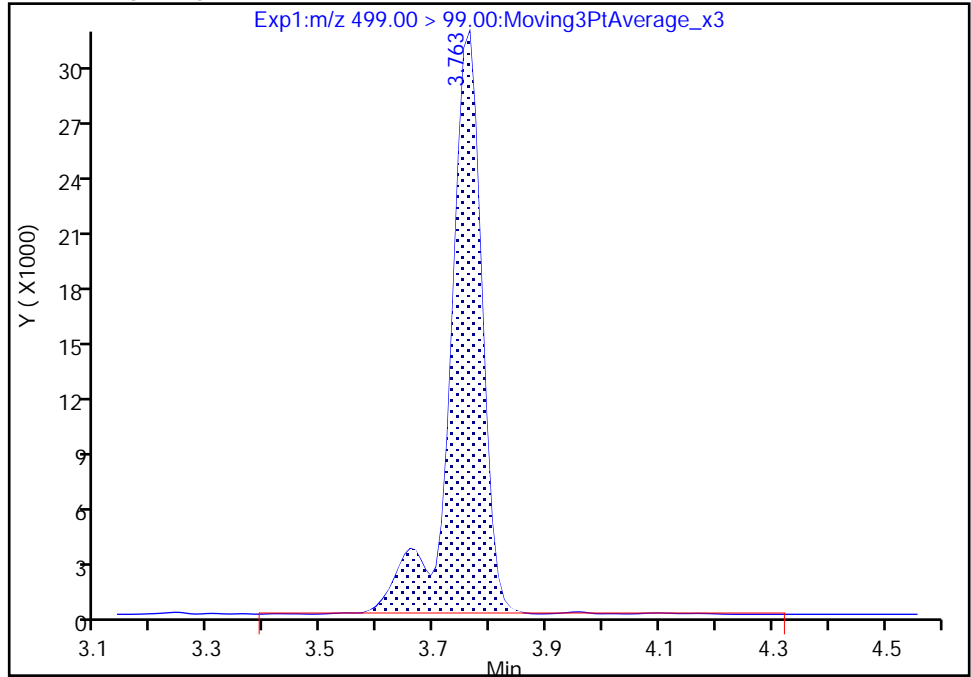
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Injection Date: 26-Jan-2023 20:35:29 Instrument ID: LC812
Lims ID: LCS 200-187806/2-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

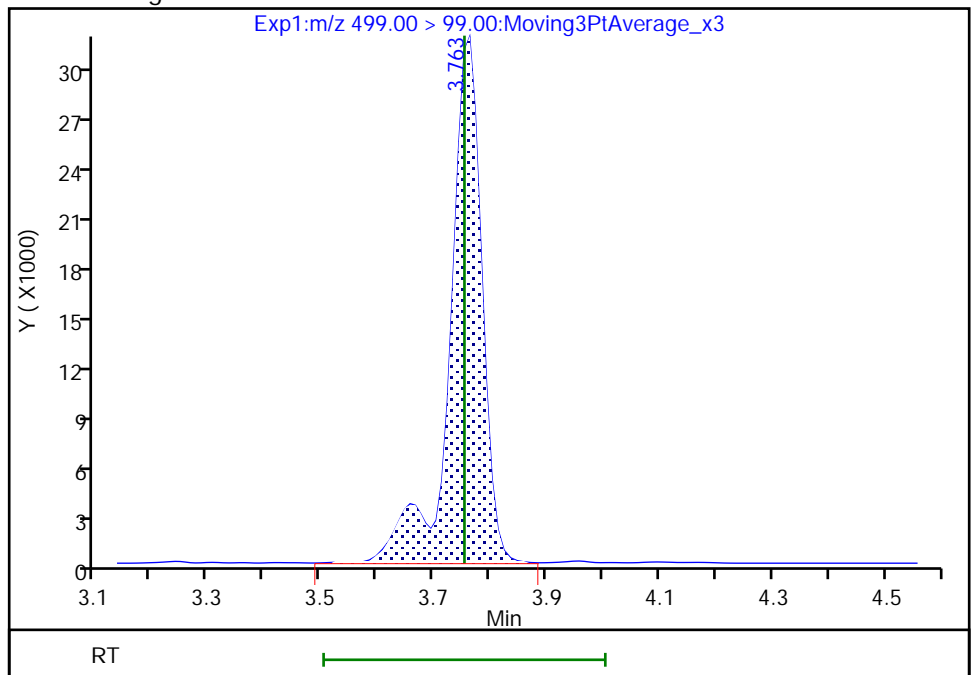
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Amount: 0.872511
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 124113
Amount: 0.862096
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 10:49:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 200-187735/3-A
 Matrix: Water Lab File ID: PA230123B04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 250 (mL) Date Analyzed: 01/23/2023 19:56
 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.: 187759 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	45.62		5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	36.89		2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	39.10		2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	43.66		2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	42.14		2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	41.63		2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	44.68		2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	44.61		2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	41.58		2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	39.13		2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	41.66		2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	41.33		2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.89		2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	38.20		2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	38.18		2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	37.73		2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	35.66		2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	42.86		5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.16		5.00	1.60
27619-97-2	6:2 FTS	38.49		5.00	1.30
39108-34-4	8:2 FTS	39.78		2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 200-187735/3-A
 Matrix: Water Lab File ID: PA230123B04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 01/23/2023 10:17
 Sample wt/vol: 250 (mL) Date Analyzed: 01/23/2023 19:56
 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.: 187759 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	92		50-150
STL00990	13C4 PFOA	90		50-150
STL00995	13C5 PFNA	82		50-150
STL00992	13C4 PFBA	84		50-150
STL00993	13C2 PFHxA	94		50-150
STL00996	13C2 PFDA	73		50-150
STL00997	13C2 PFUnA	79		50-150
STL00994	18O2 PFHxS	81		50-150
STL00998	13C2 PFDoA	80		50-150
STL00991	13C4 PFOS	79		50-150
STL01056	13C8 FOSA	69		50-150
STL01893	13C5 PFPeA	92		50-150
STL02116	13C2 PFTeDA	84		50-150
STL02118	d3-NMeFOSAA	90		50-150
STL02117	d5-NEtFOSAA	96		50-150
STL02279	M2-6:2 FTS	94		50-150
STL02337	13C3 PFBS	75		50-150
STL02280	M2-8:2 FTS	80		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
 Lims ID: LCSD 200-187735/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 23-Jan-2023 19:56:54 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 200-187735/3-A
 Misc. Info.: 200-0054084-004 Plate: 1 Rack: 2
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Jan-2023 18:24:23 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1668
 First Level Reviewer: khanphomeea Date: 24-Jan-2023 11:25:10
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.076	2.094	-0.018	0.603	1607110	1.05	84.1	17718	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.004	1441938	1.14		114	155	M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1426450	1.15	92.4	7615	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	1205366	0.9223		92.2	42.5	M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1188598	0.8766	75.4	157814	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.397	2.384	0.013	1.000	1131913	1.03	Target=2.10	117	2319	
298.90 > 99.00	2.397	2.384	0.013	1.000	529635		2.14(1.05-3.15)		592	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.680	2.669	0.011	1.000	297034	1.05		112	3287	
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.778	112115	1.02	87.6	240	
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.789	1506601	1.17	93.9	14004	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.717	2.706	0.011	1.000	1241190	0.9775	Target=13.16	97.7	295	M
313.00 > 119.00	2.717	2.706	0.011	1.000	90523		13.71(6.58-19.74)		276	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.730	2.706	0.024	0.886	878509	0.8853	Target=2.90	94.4	1438	M
349.00 > 99.00	2.730	2.706	0.024	0.886	336887		2.61(1.45-4.35)		1069	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.830	2.806	0.024	1.000	180760	1.05		105	1661	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	215361	0.9686		77.5	3761	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.895	948664	0.9616		81.3	6871	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.000	746046	0.8472	Target=3.18	93.1	1827	M
399.00 > 99.00	3.080	3.069	0.011	1.000	252213		2.96(1.59-4.77)		831	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.080	3.069	0.011	0.895	1470630	1.14		91.6	7444	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.080	3.069	0.011	1.000	1367659	1.09	Target=4.10	109	403	
363.00 > 169.00	3.091	3.069	0.022	1.004	327861		4.17(2.05-6.16)		1449	
77 DONA										
377.00 > 251.00	3.125	3.104	0.021	0.833	3361712	1.23	Target=2.96	131	3288	
377.00 > 85.00	3.125	3.104	0.021	0.833	1020075		3.30(1.48-4.44)		2279	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	173235	1.11		93.8	1201	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	321465	0.9623		102	558	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.915	660533	0.9551	Target=4.59	100	2926	M
449.00 > 99.00	3.425	3.417	0.008	0.913	154029		4.29(2.30-6.89)		1181	M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1535053	1.13		90.2	5330	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1661080	1.25			3891	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	1408100	1.05	Target=2.71	105	138	M
413.00 > 169.00	3.443	3.426	0.017	1.000	496182		2.84(1.36-4.07)		1084	M
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	567951	0.9468		79.2	3568	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.754	-0.001	1.000	544597	0.9432	Target=4.23	102	927	M
499.00 > 99.00	3.753	3.754	-0.001	1.000	116665		4.67(2.11-6.34)		1194	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	1159407	1.04	Target=8.78	104	246	
463.00 > 169.00	3.773	3.774	-0.001	1.000	146221		7.93(4.39-13.17)		1929	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1363003	1.03		82.2	6036	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.045	1326105	0.9622		103	4180	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.042	4.043	-0.001	1.077	416972	0.8695	Target=2.37	90.6	2990	
549.00 > 99.00	4.052	4.043	0.009	1.080	198280		2.10(1.18-3.55)		1932	
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1249242	0.9183		73.5	5256	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	1193568	1.12	Target=11.13	112	472	
513.00 > 169.00	4.073	4.074	-0.001	1.000	112689		10.59(5.56-16.69)		756	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	187121	0.9604		80.2	1237	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	281910	0.99		104	1618	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	684234	0.8915		89.1	1675	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	953943	0.8628		69.0	2786	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	302523	1.13		90.5	1030	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	233815	1.07		107	1171	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.322	-0.001	1.151	341175	0.9544	Target=2.45	99.0	3905	
599.00 > 99.00	4.321	4.322	-0.001	1.151	137453		2.48(1.23-3.68)		1893	
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1161895	0.9895		79.2	8169	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.345	4.346	-0.001	1.000	1131556	1.12	Target=10.33	112	421	
563.00 > 169.00	4.345	4.346	-0.001	1.000	104287		10.85(5.17-15.50)		1389	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.357	4.358	-0.001	1.000	218526	0.9540		95.4	1191	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	308191	1.20		95.9	857	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.440	4.452	-0.012	1.183	2060917	0.9662		103	3325	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	994236	1.04	Target=8.10	104	185	M
613.00 > 169.00	4.583	4.584	-0.001	1.000	137923		7.21(4.05-12.15)		1596	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1174298	1.00		79.8	5343	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	182112	1.02		105	2764	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.759	4.770	-0.011	1.268	136766	0.9418	Target=0.51	97.3	3572	
699.00 > 99.00	4.759	4.770	-0.011	1.268	229578		0.60(0.26-0.77)		3110	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.798	4.799	-0.001	1.047	934643	0.9784	Target=6.06	97.8	148	M
663.00 > 169.00	4.798	4.799	-0.001	1.047	139905		6.68(3.03-9.09)		1587	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.994	4.998	-0.004	1.000	110040	1.04	Target=0.83	104	1487	M
713.00 > 219.00	4.994	4.998	-0.004	1.000	107948		1.02(0.42-1.25)		1206	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.994	4.998	-0.004	1.451	1057734	1.04		83.6	4342	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.360	5.362	-0.002	1.002	1022509	1.14	Target=6.74	114	204	
813.00 > 169.00	5.360	5.362	-0.002	1.002	144244		7.09(3.37-10.11)		1628	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.349	5.362	-0.013	1.554	1210333	0.9752		78.0	6242	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.701	5.711	-0.010	1.066	783607	1.00	Target=6.99	100	194	M
913.00 > 169.00	5.701	5.711	-0.010	1.066	107627		7.28(3.50-10.49)		770	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d

Injection Date: 23-Jan-2023 19:56:54

Instrument ID: LC812

Lims ID: LCSD 200-187735/3-A

Client ID:

Operator ID: LC812user

ALS Bottle#: 4

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

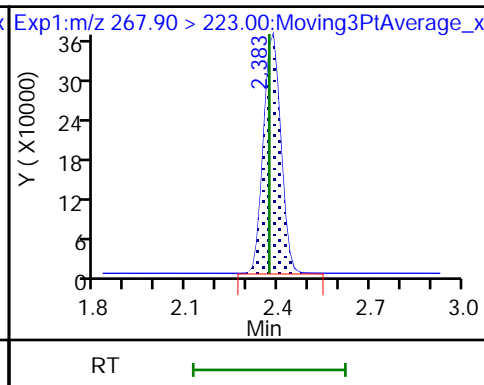
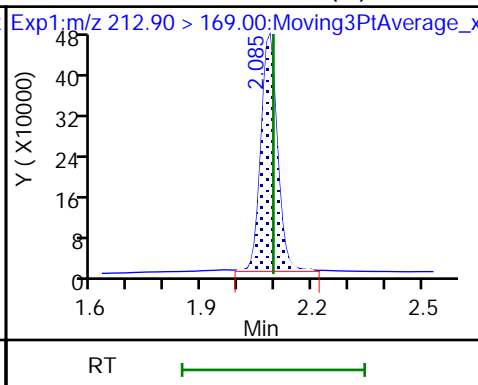
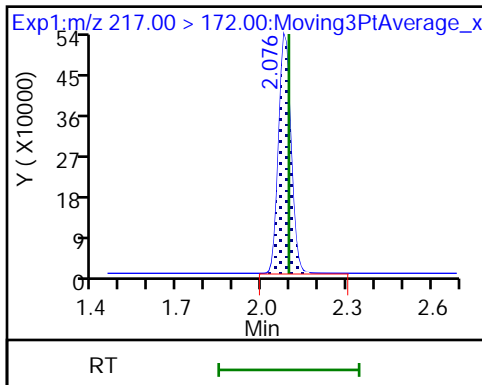
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

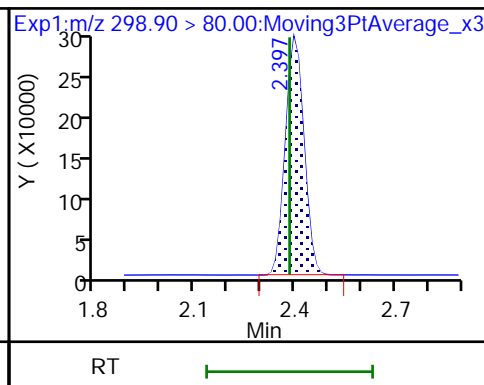
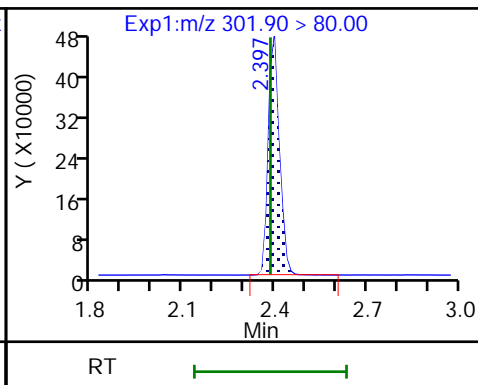
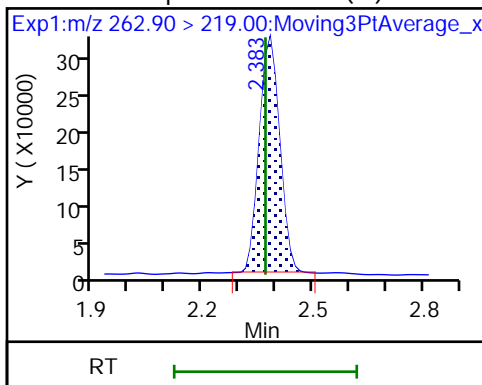
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

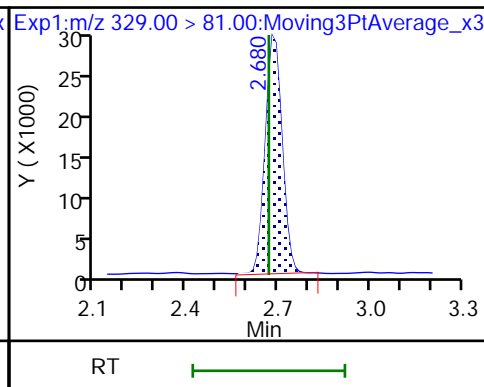
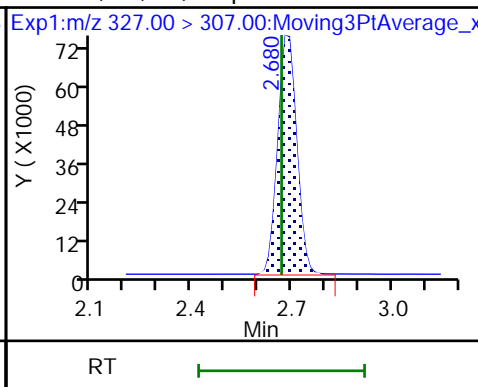
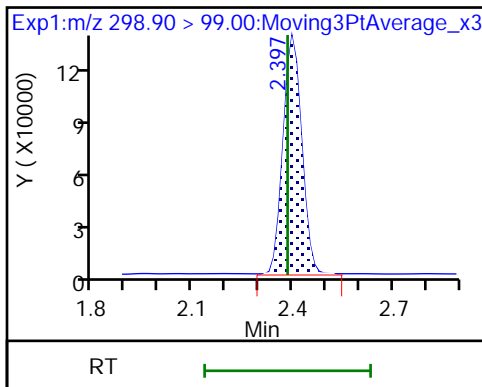
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

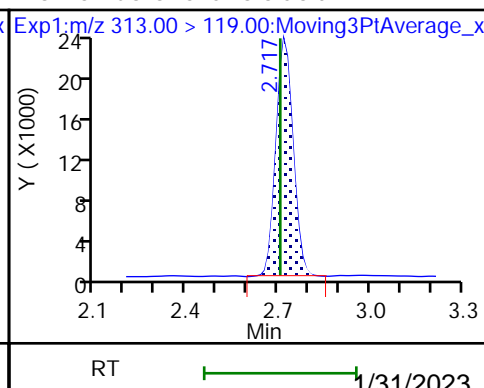
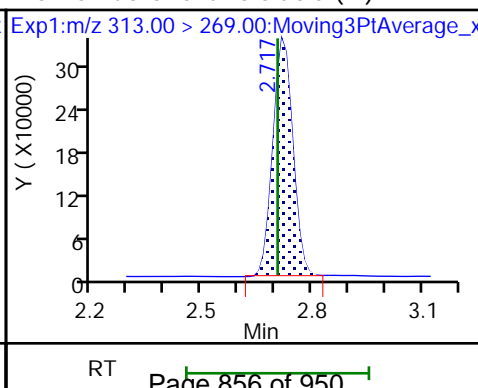
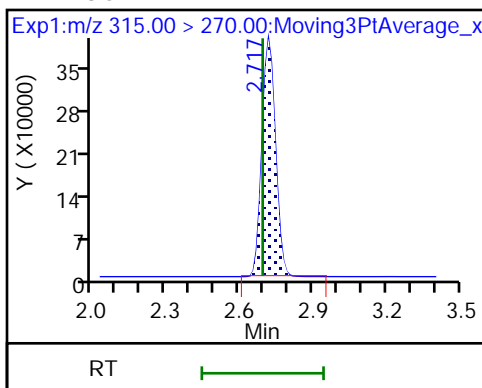
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

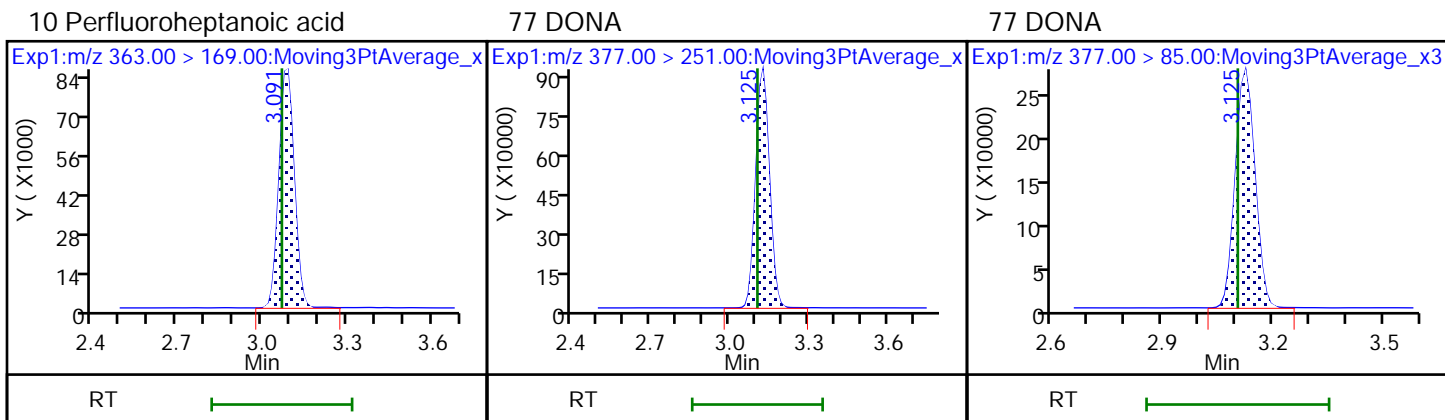
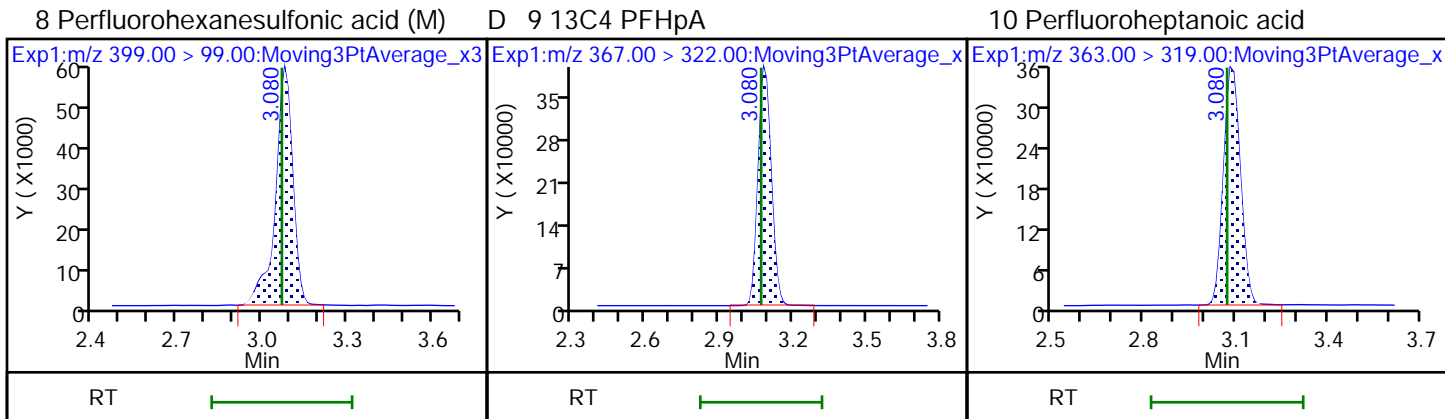
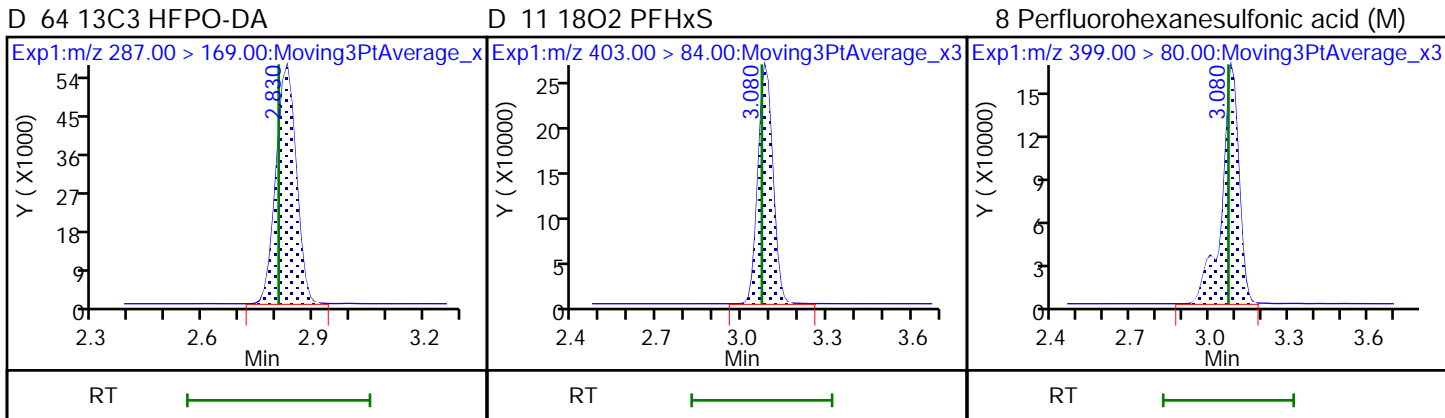
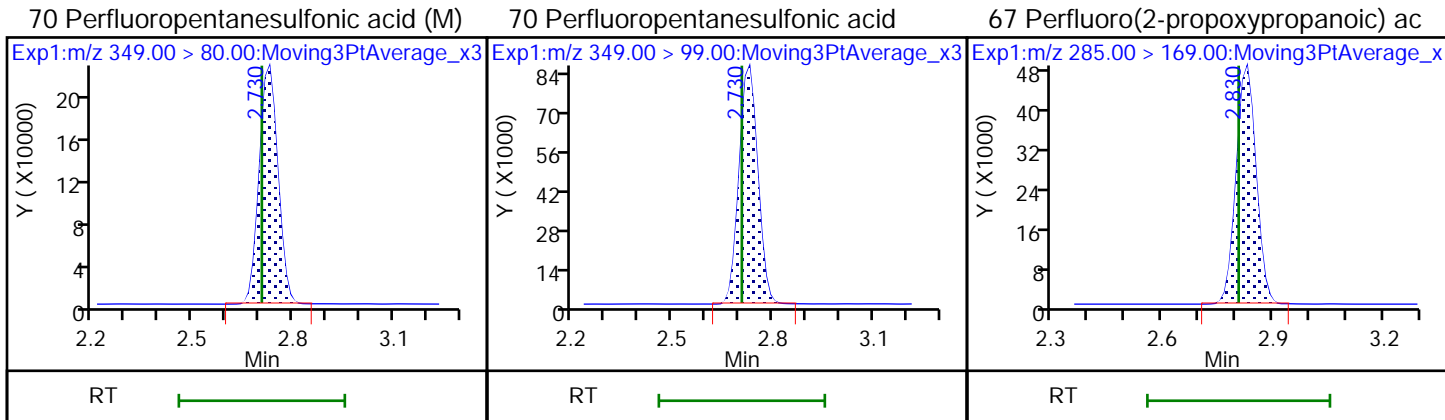


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

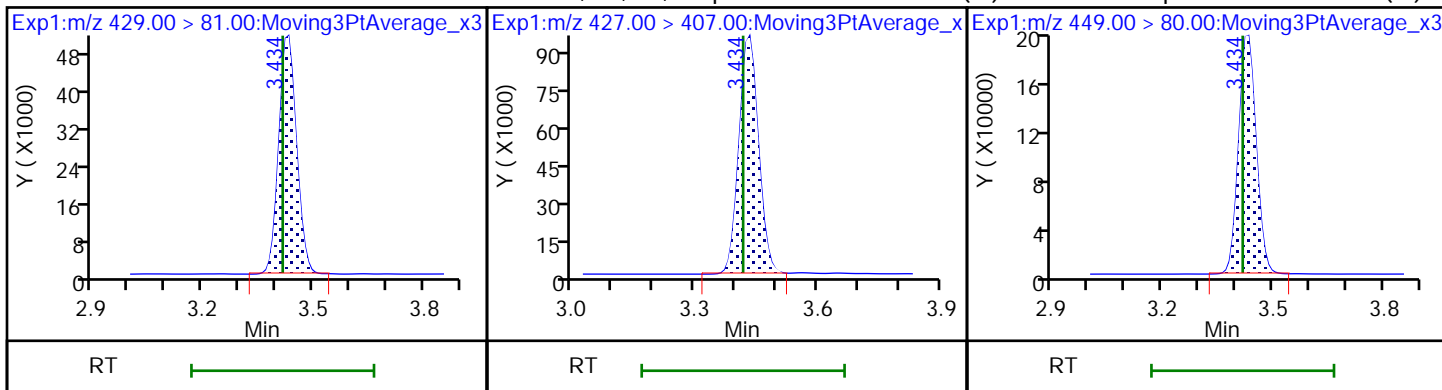
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

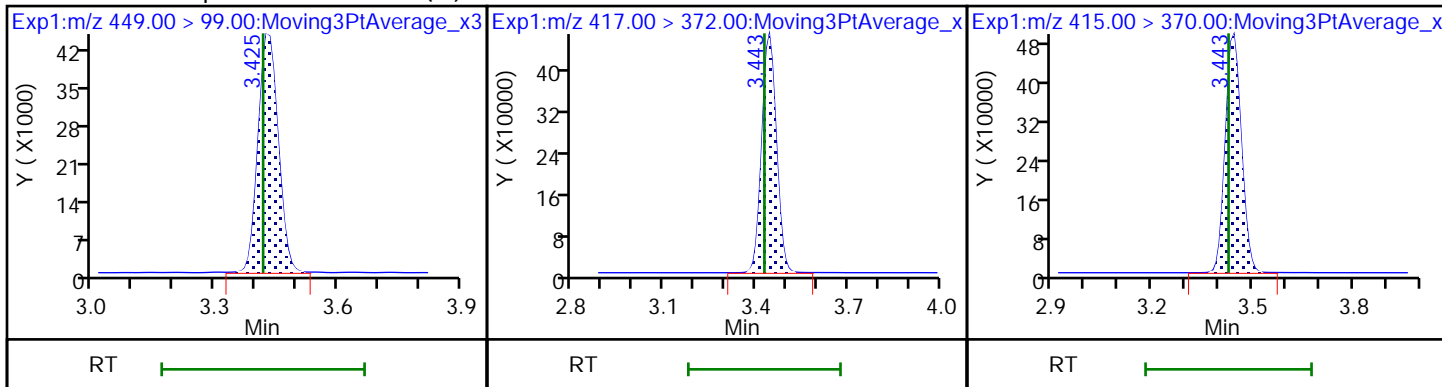
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 6 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

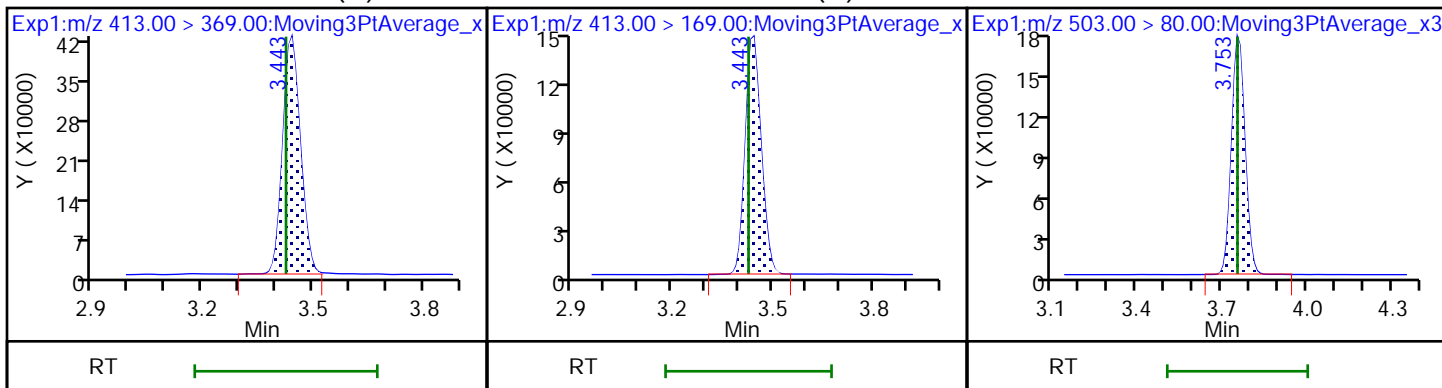
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

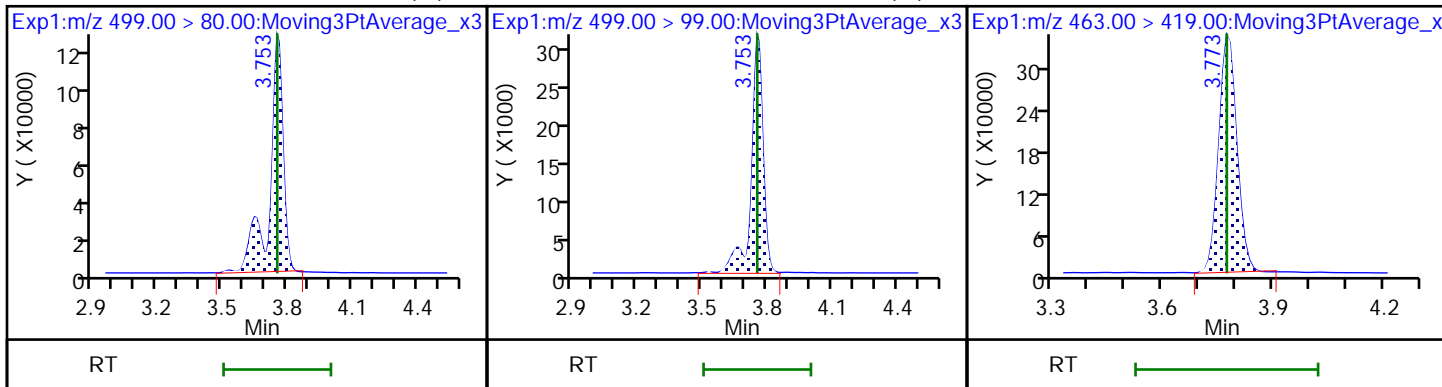
D 18 13C4 PFOS

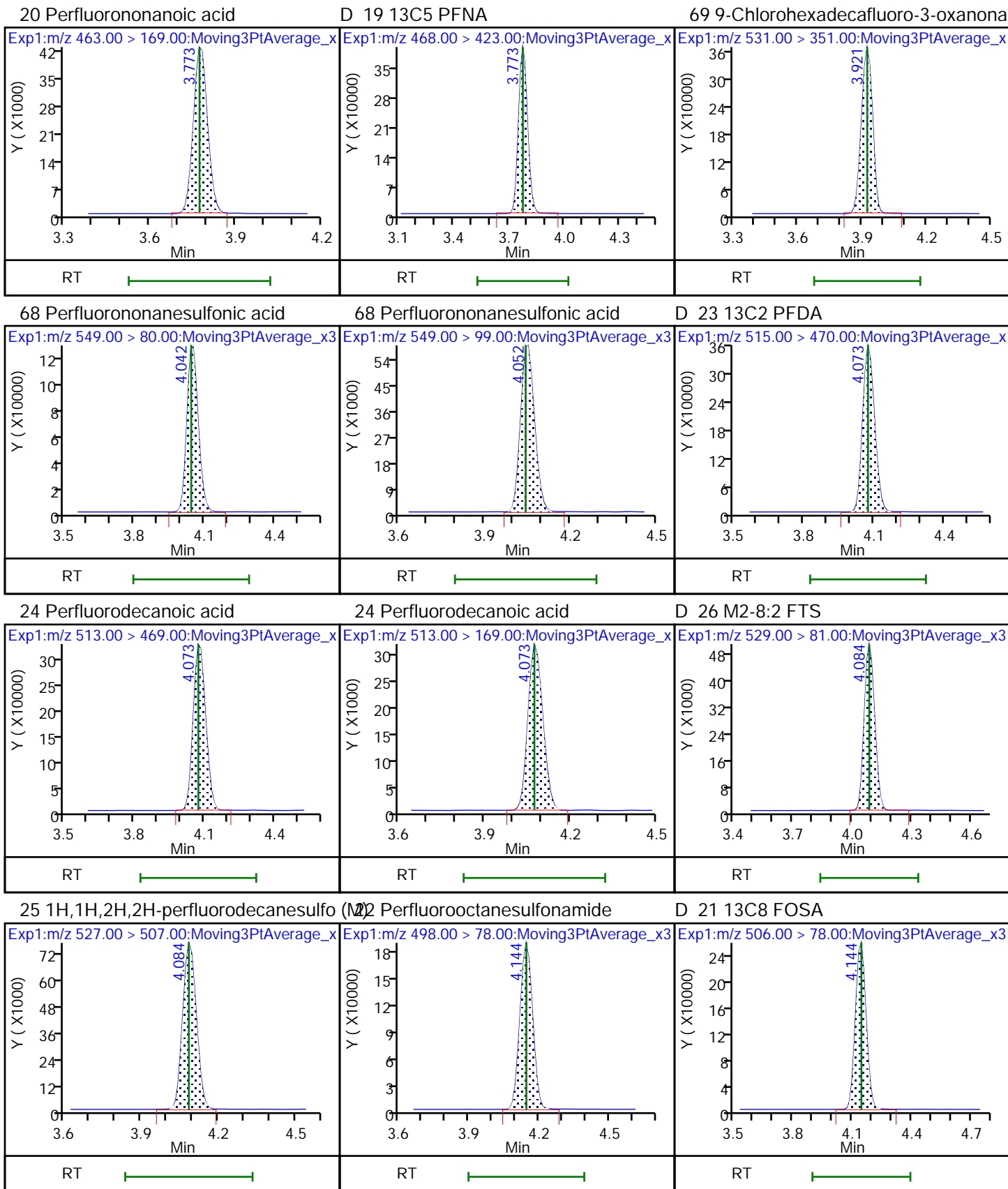


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

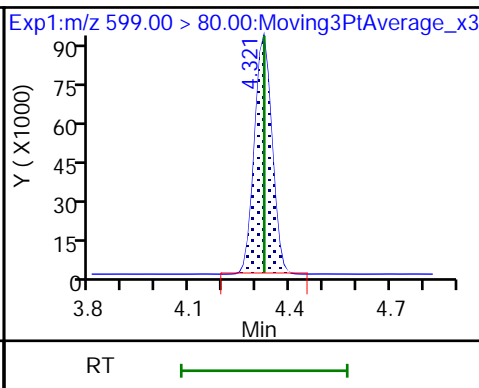
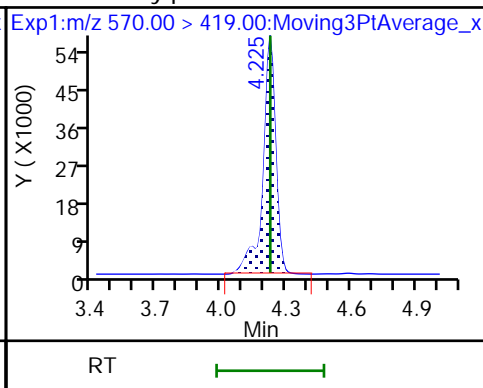
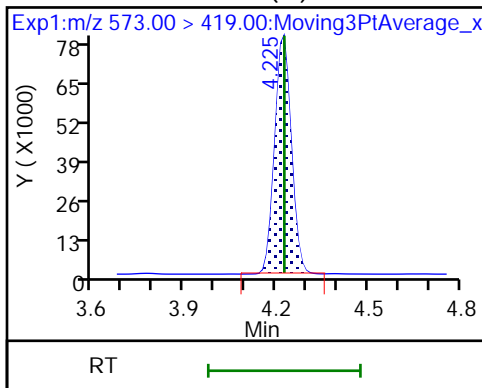




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

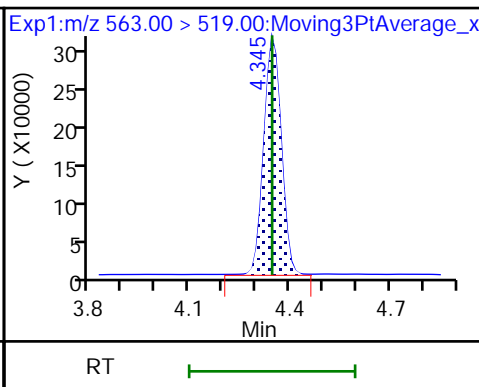
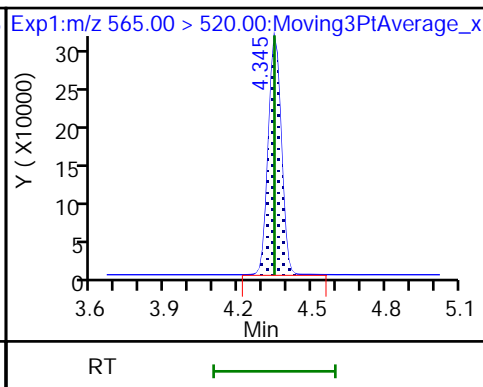
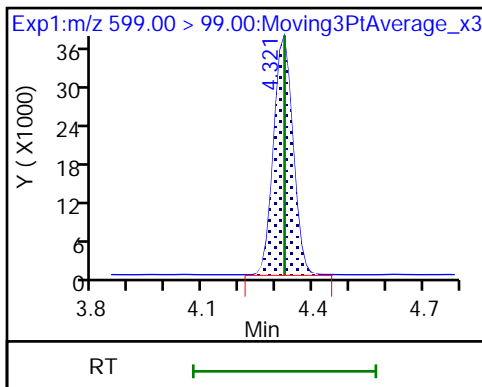
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

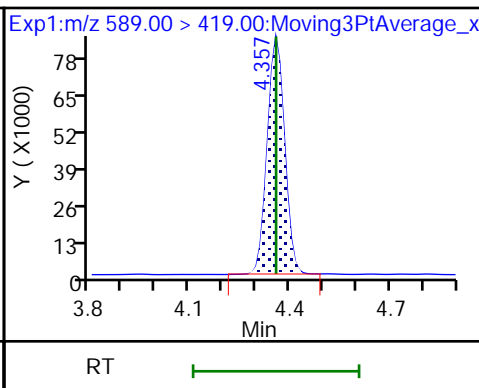
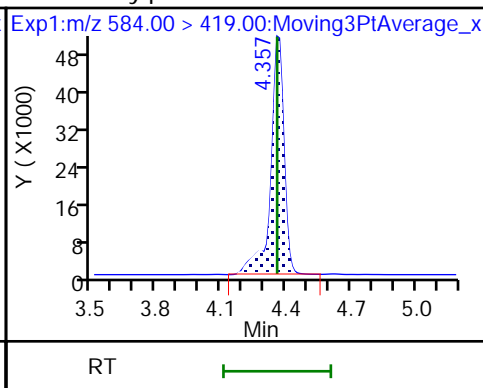
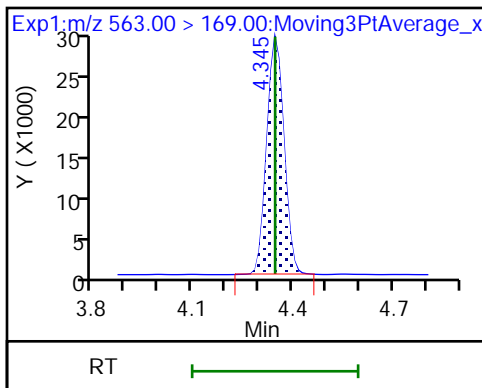
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid

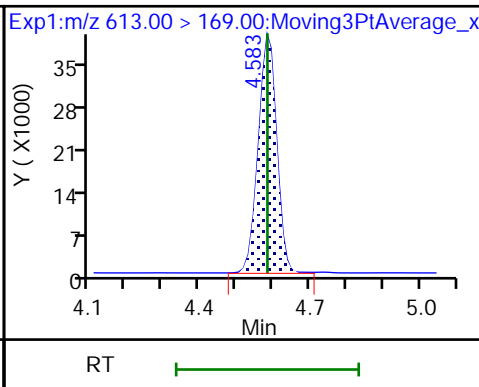
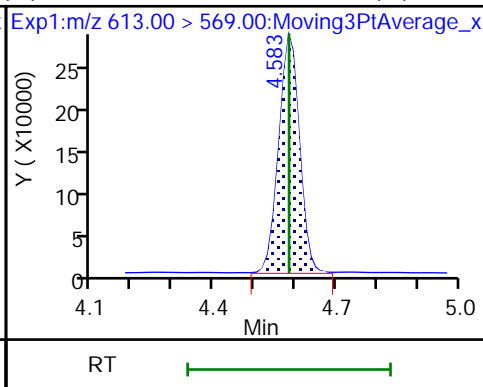
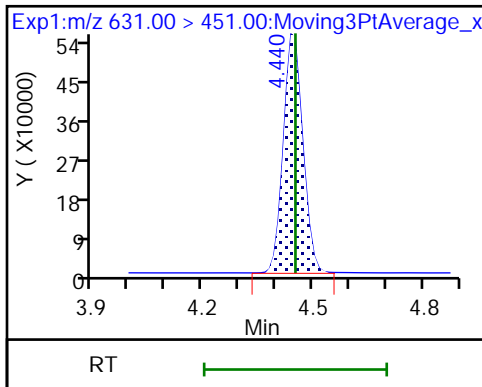
D 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec (M)

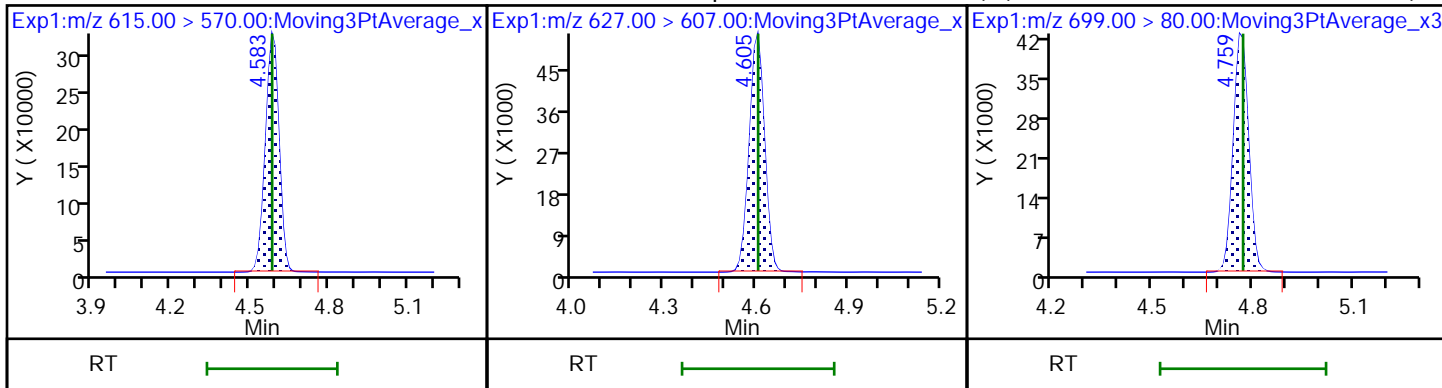
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

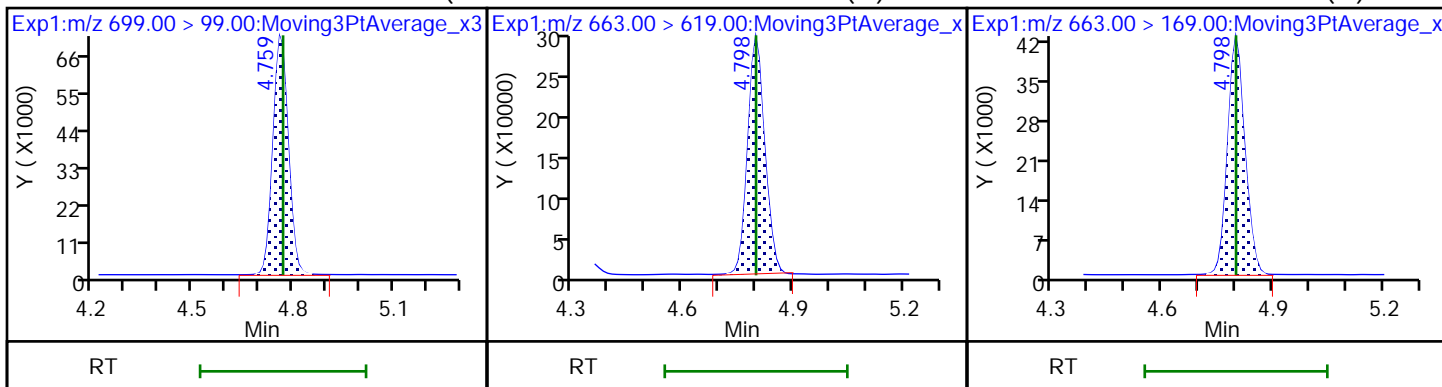
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

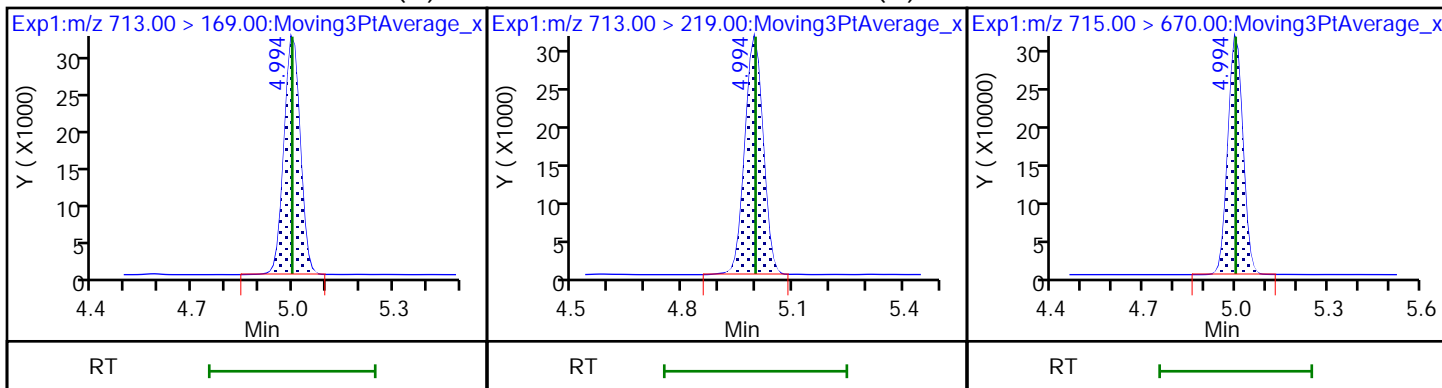
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

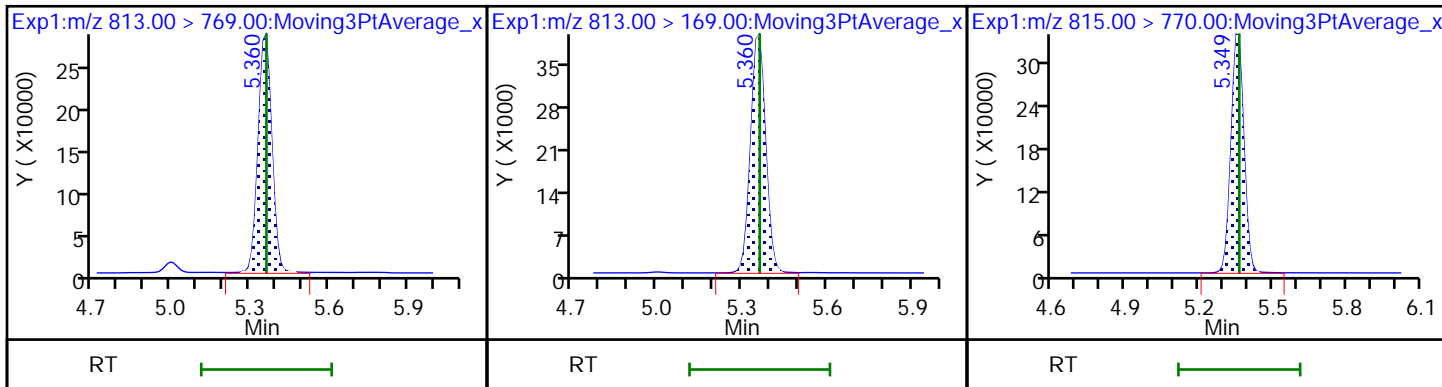
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

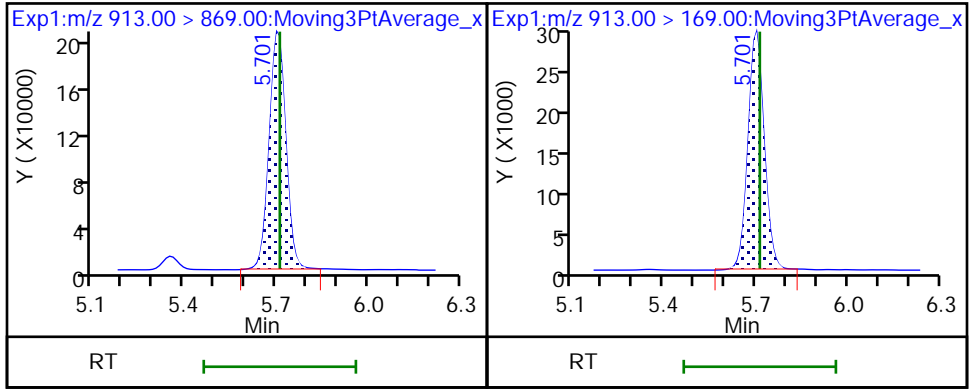
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

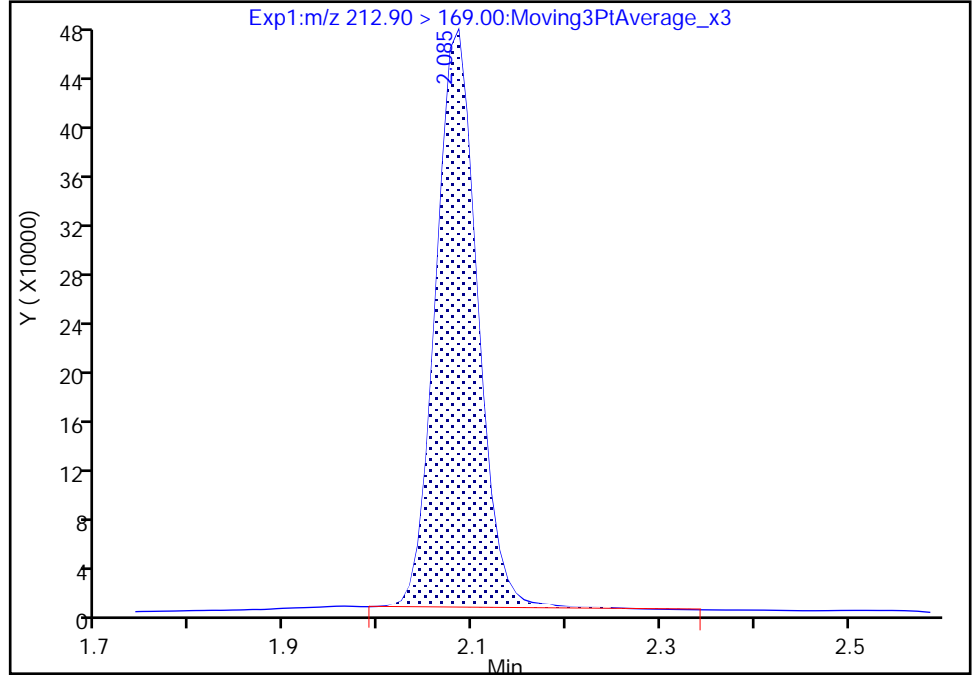
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

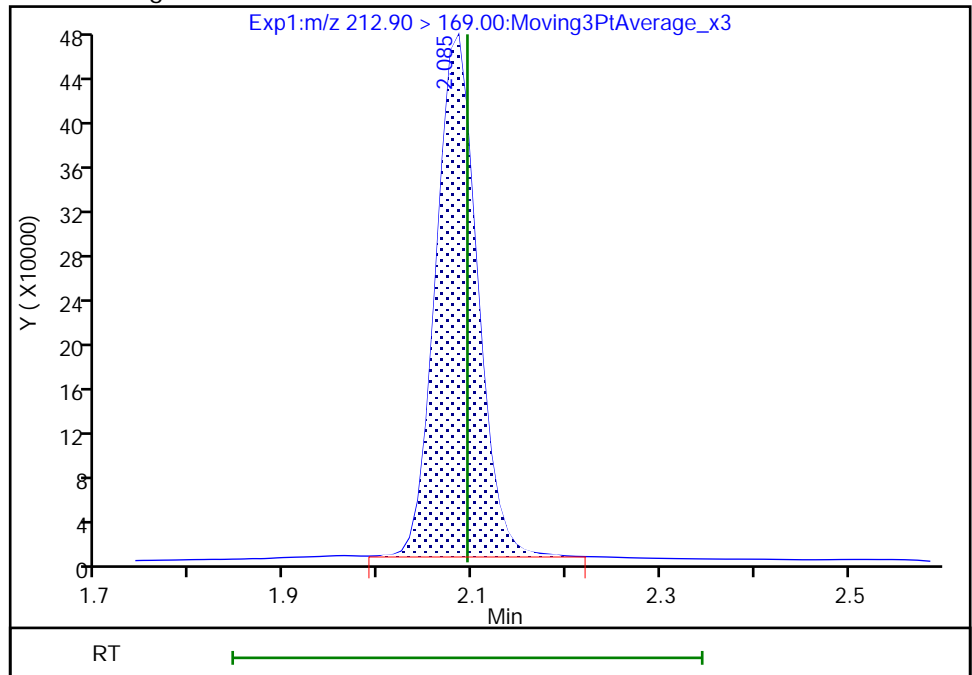
RT: 2.09
Area: 1453675
Amount: 1.150028
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1441938
Amount: 1.140393
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:22:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

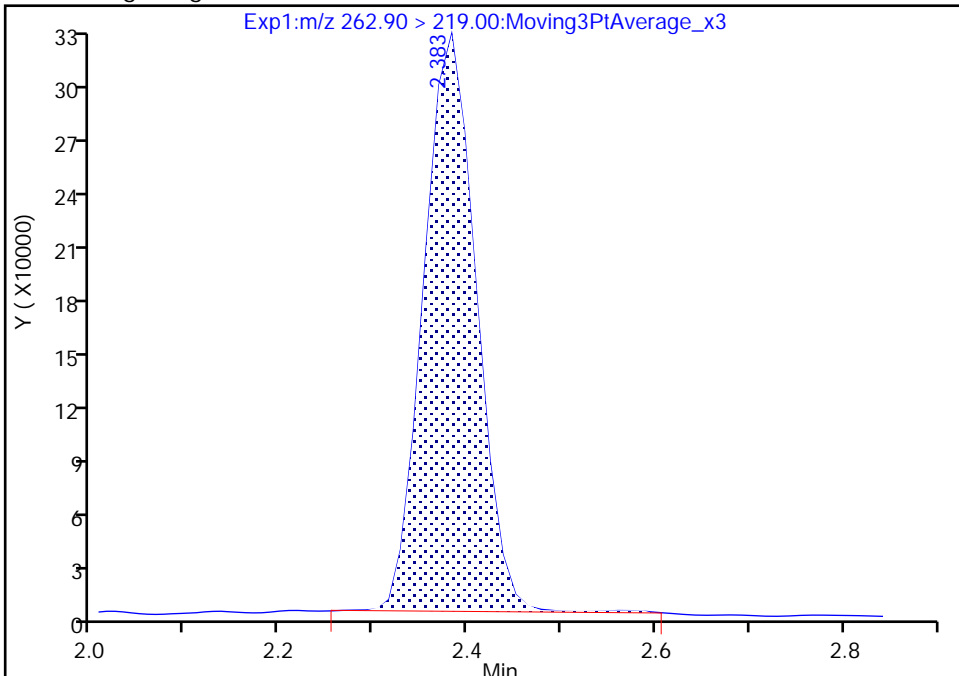
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

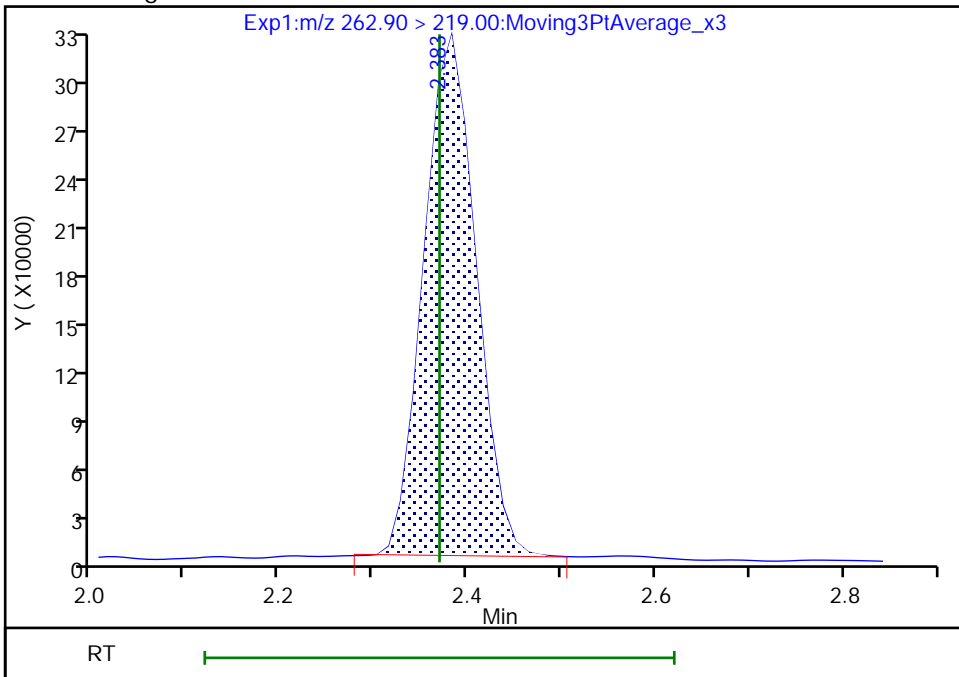
RT: 2.38
Area: 1216593
Amount: 0.930879
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 1205366
Amount: 0.922288
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:22:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

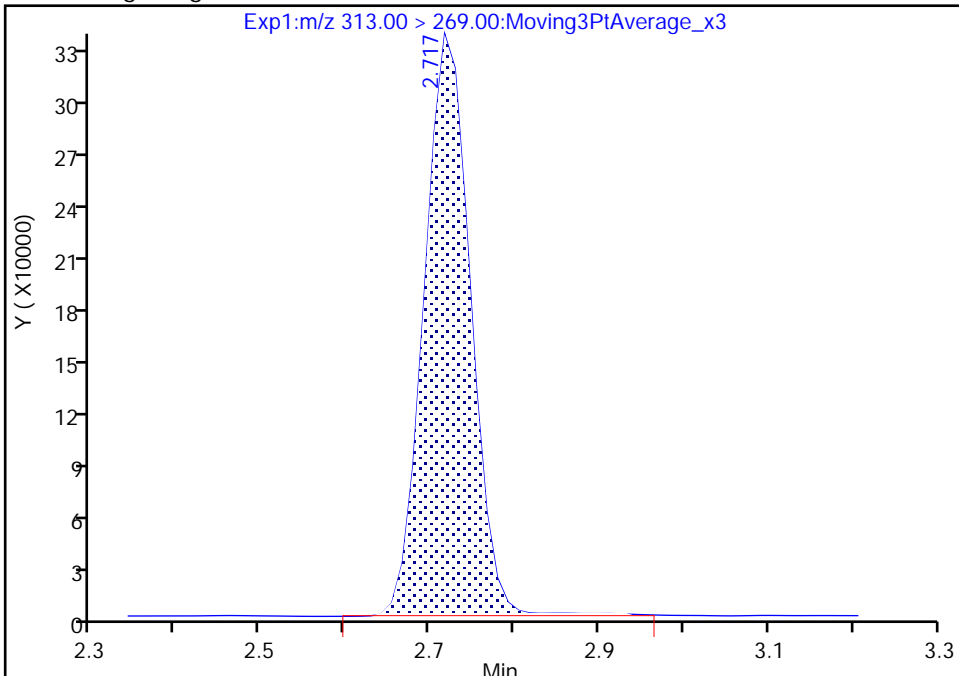
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

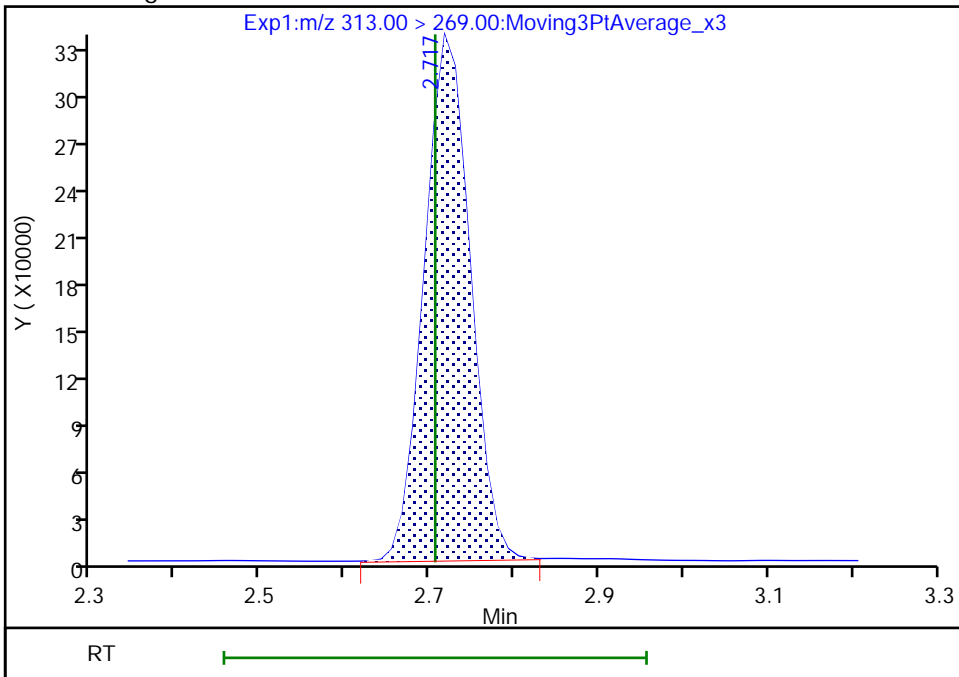
RT: 2.72
Area: 1255717
Amount: 0.988903
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 1241190
Amount: 0.977462
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:22:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

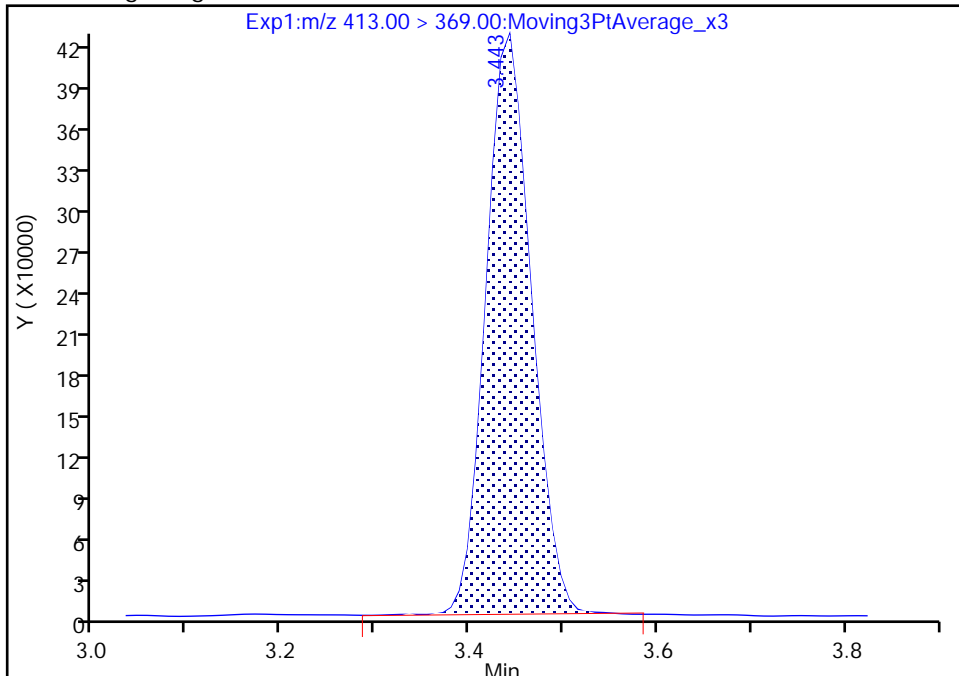
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

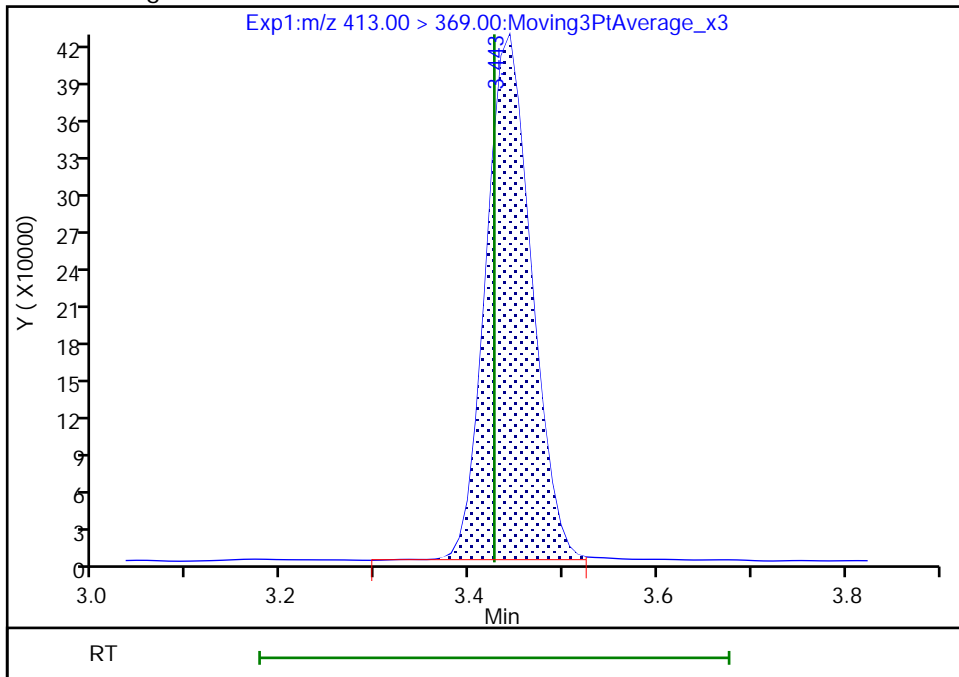
RT: 3.44
Area: 1412742
Amount: 1.057076
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1408100
Amount: 1.053603
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:23:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

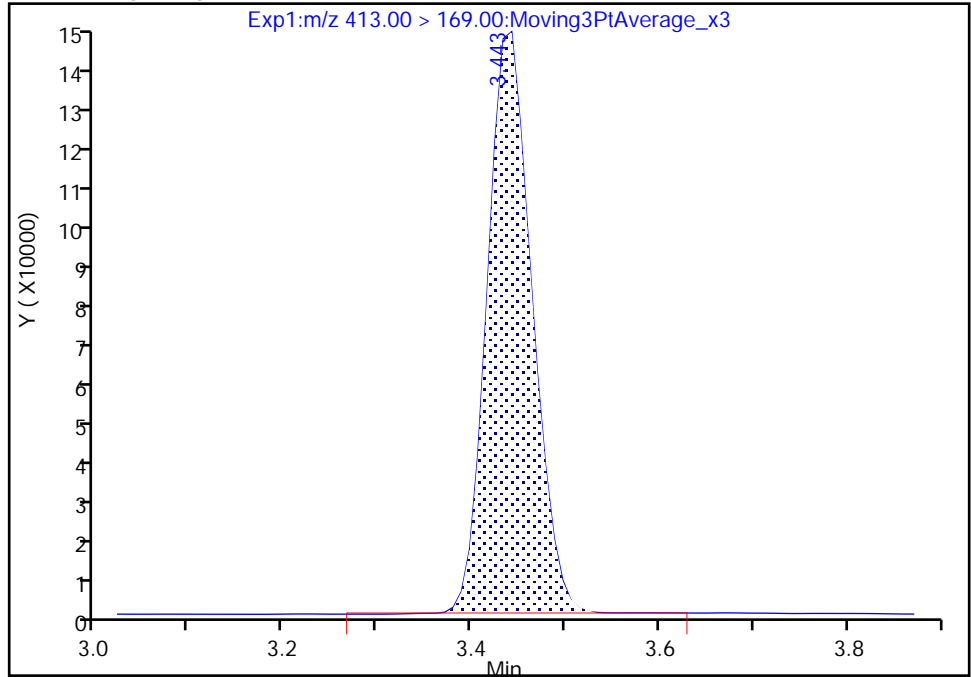
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

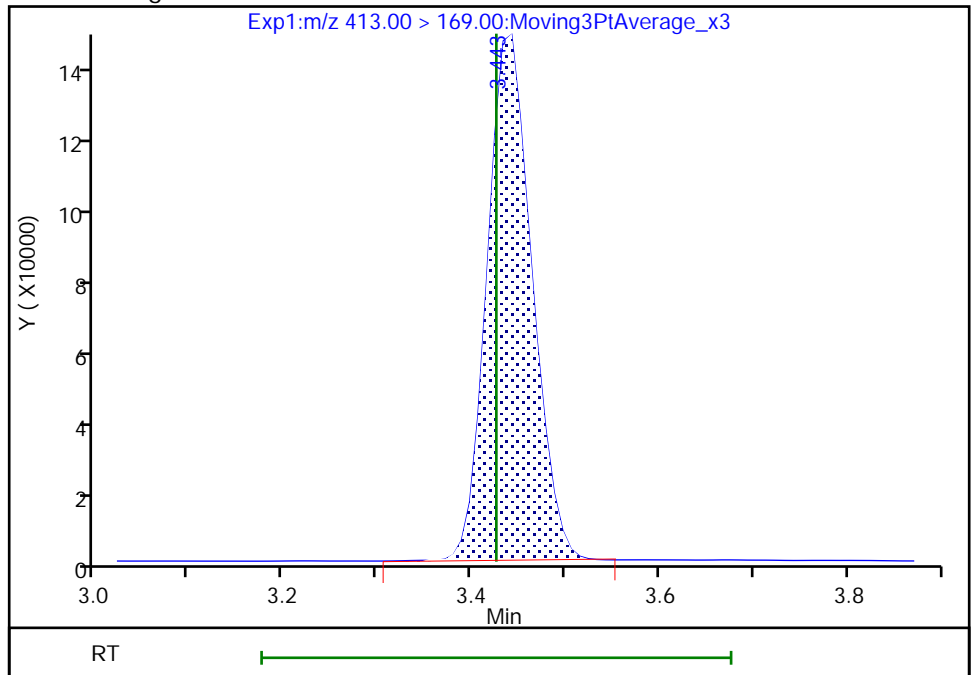
RT: 3.44
Area: 497306
Amount: 1.057076
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 496182
Amount: 1.053603
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:23:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

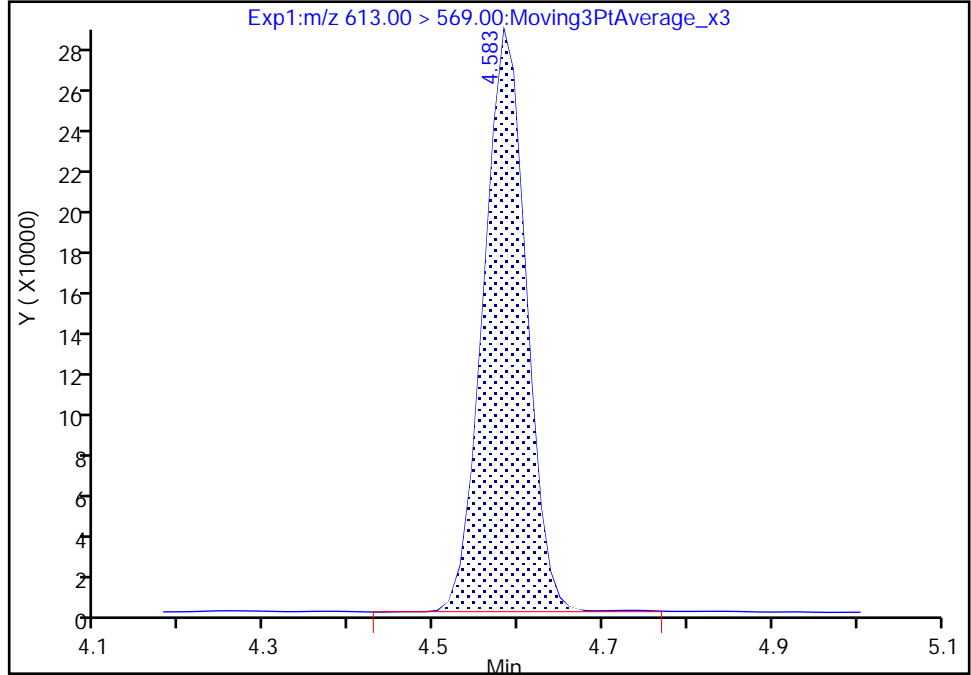
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

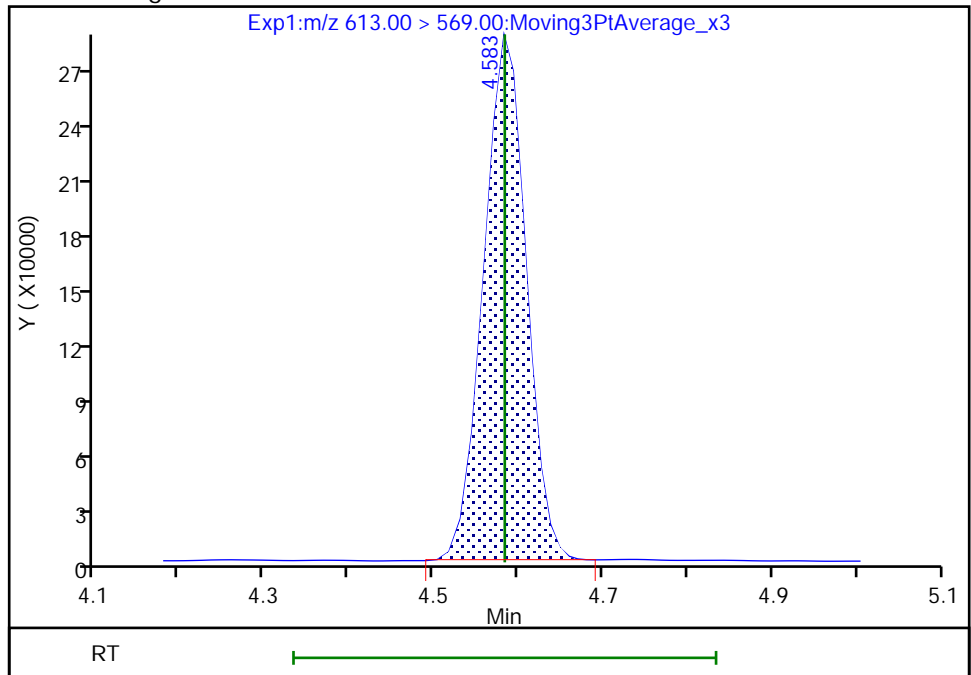
RT: 4.58
Area: 999117
Amount: 1.044610
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 994236
Amount: 1.039507
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:24:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

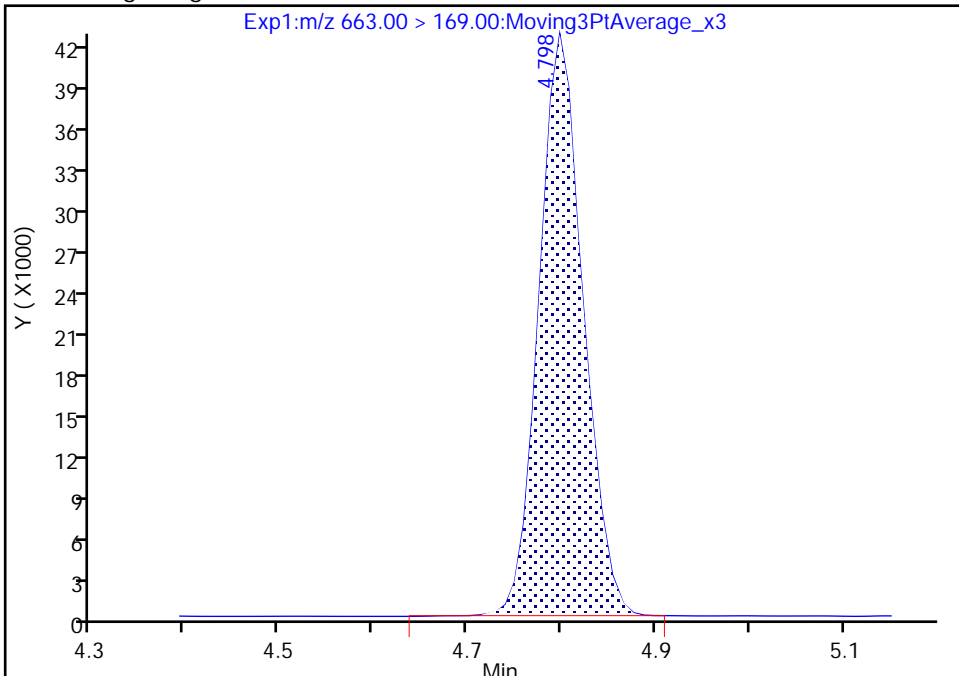
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

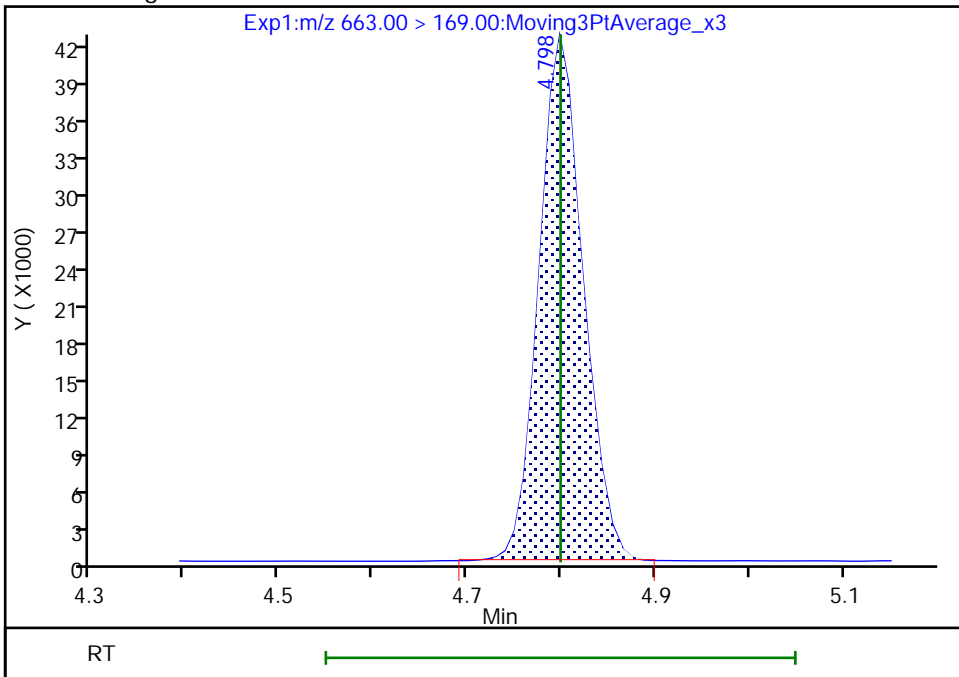
RT: 4.80
Area: 140269
Amount: 0.986580
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 139905
Amount: 0.978367
Amount Units: ng/ml

Manual Integration Results



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

Audit Reason: Incomplete Integration

Eurofins Burlington

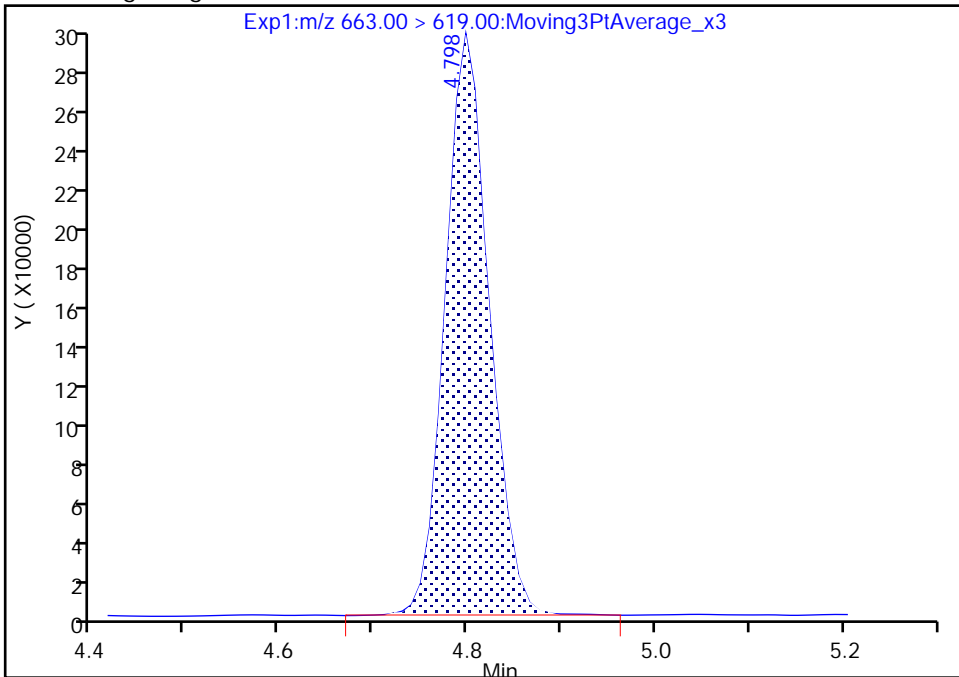
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

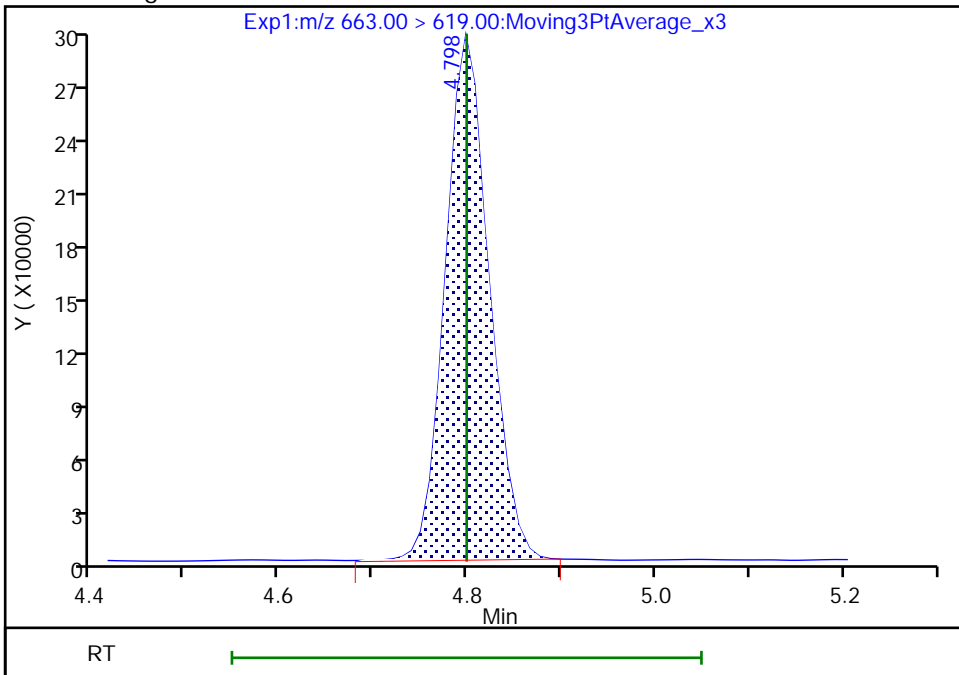
RT: 4.80
Area: 942489
Amount: 0.986580
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 934643
Amount: 0.978367
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:24:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

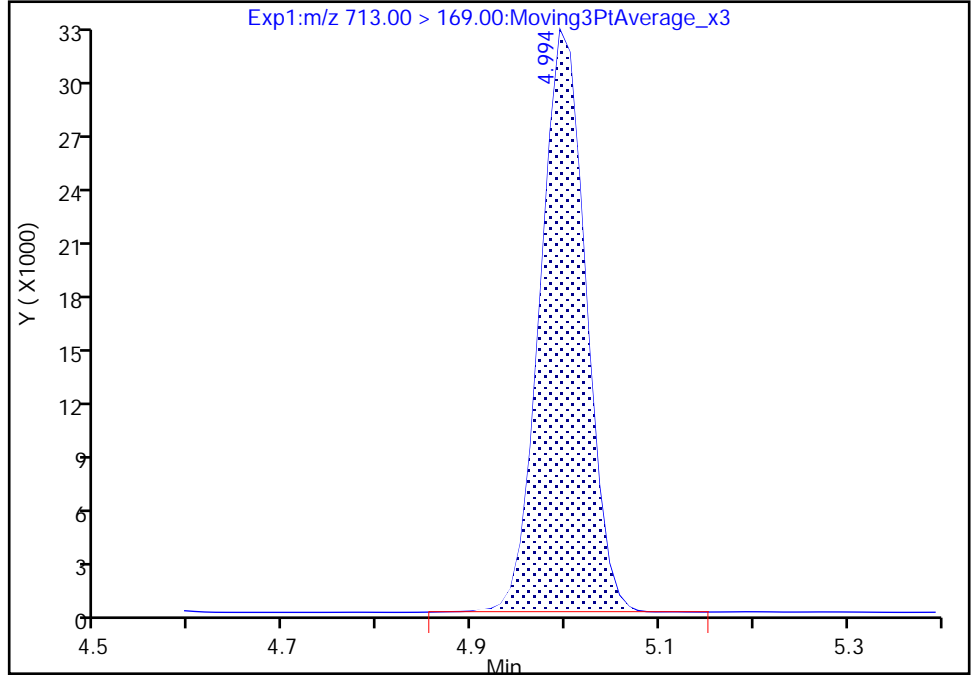
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

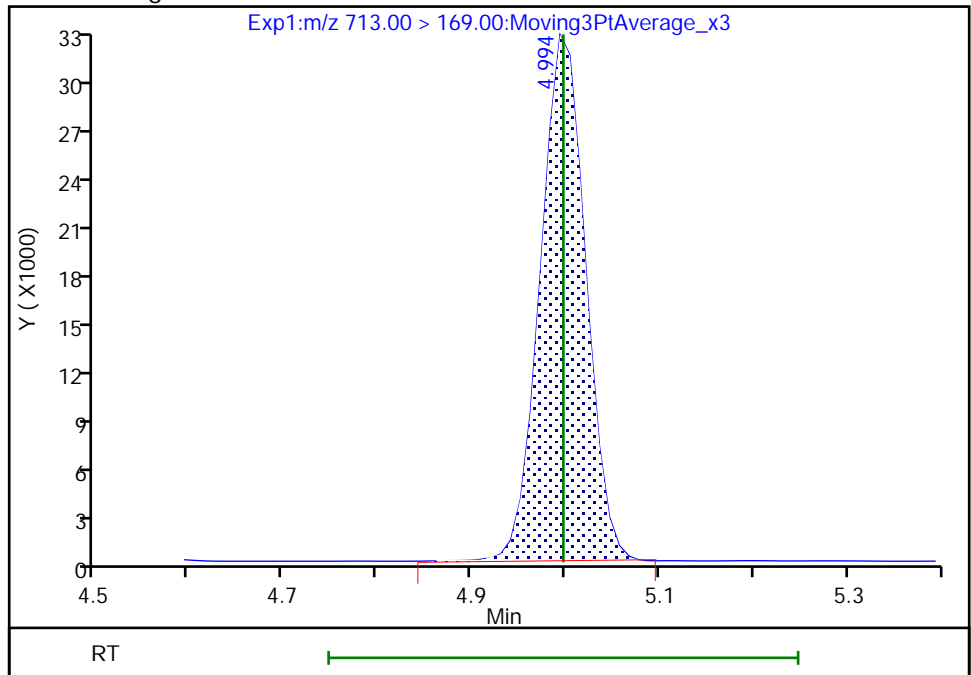
RT: 4.99
Area: 110077
Amount: 1.041879
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 110040
Amount: 1.041528
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:24:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

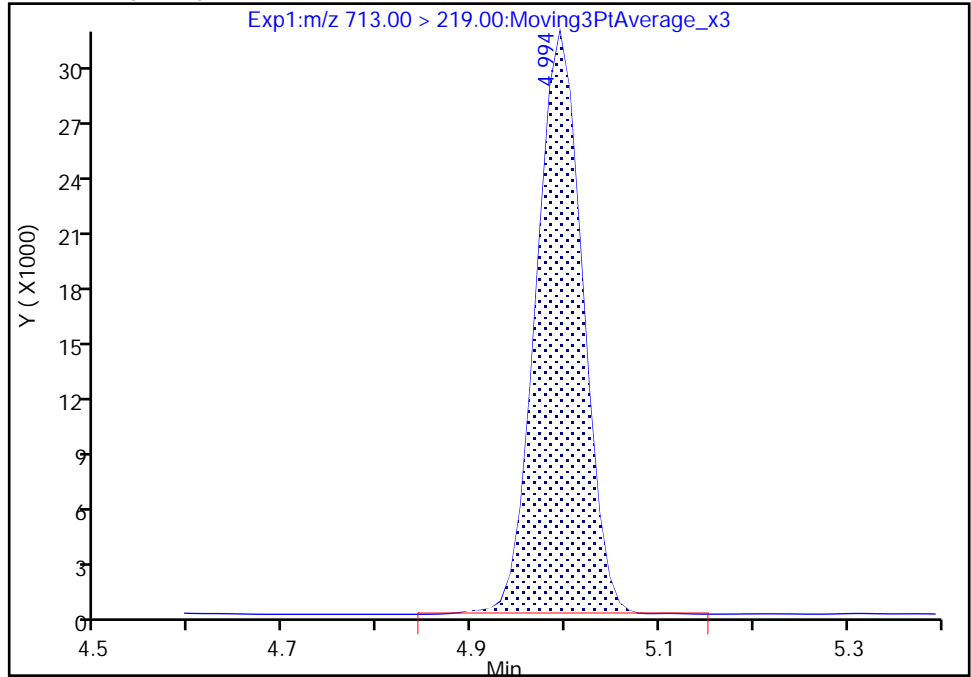
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

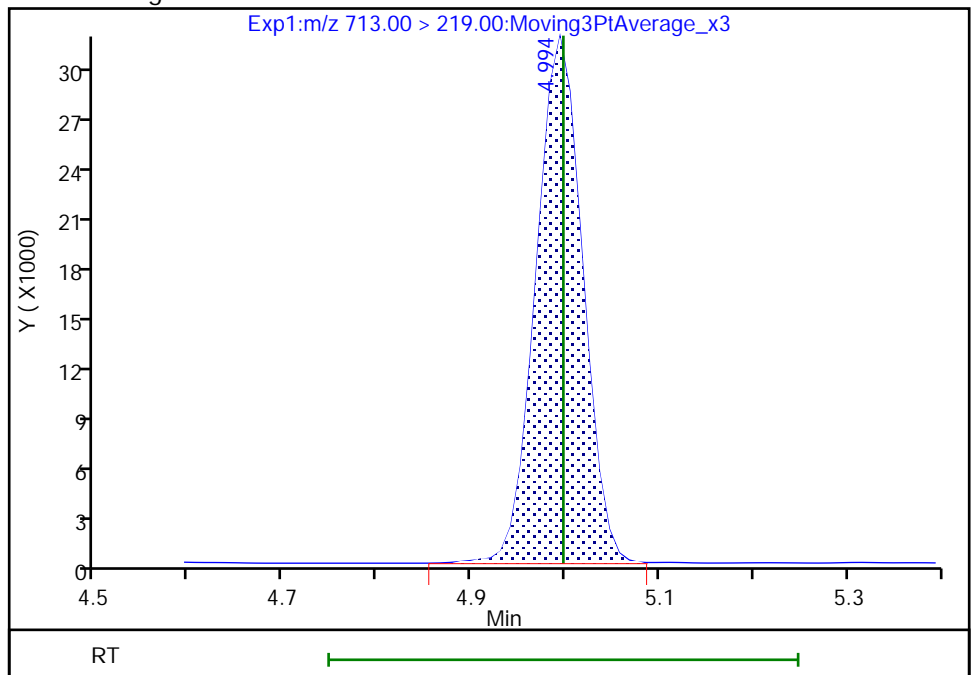
RT: 4.99
Area: 108304
Amount: 1.041879
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 107948
Amount: 1.041528
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:24:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

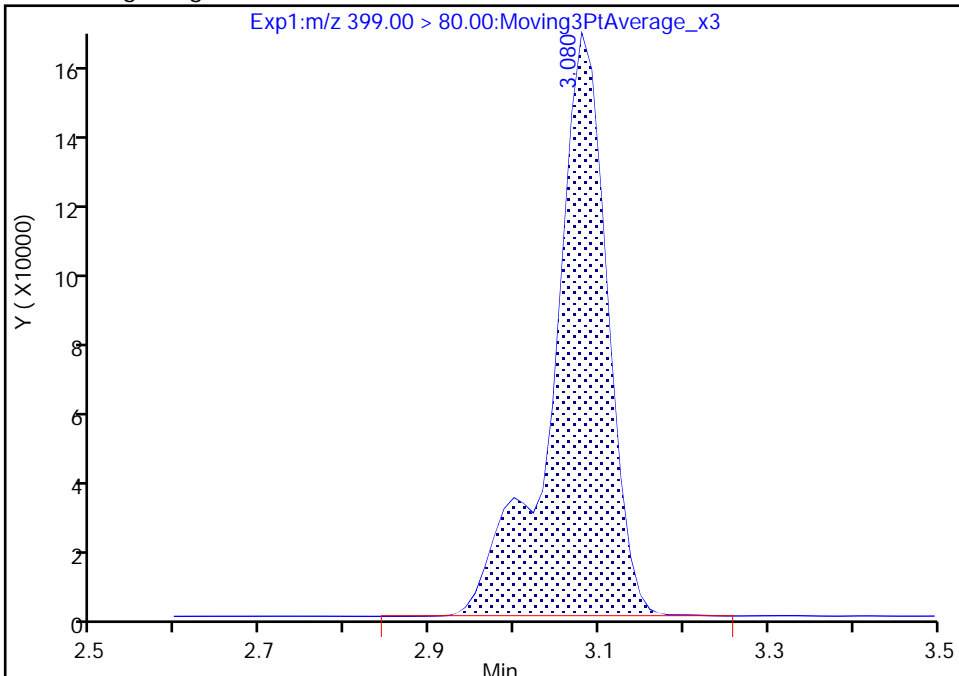
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

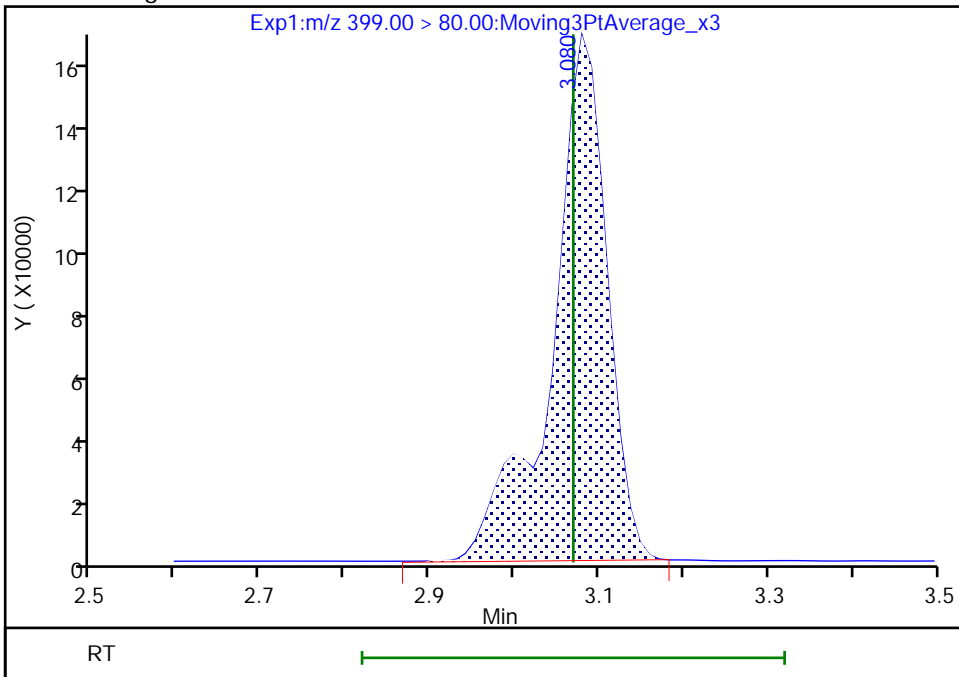
RT: 3.08
Area: 746905
Amount: 0.848170
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 746046
Amount: 0.847195
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:22:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 873 of 950

Eurofins Burlington

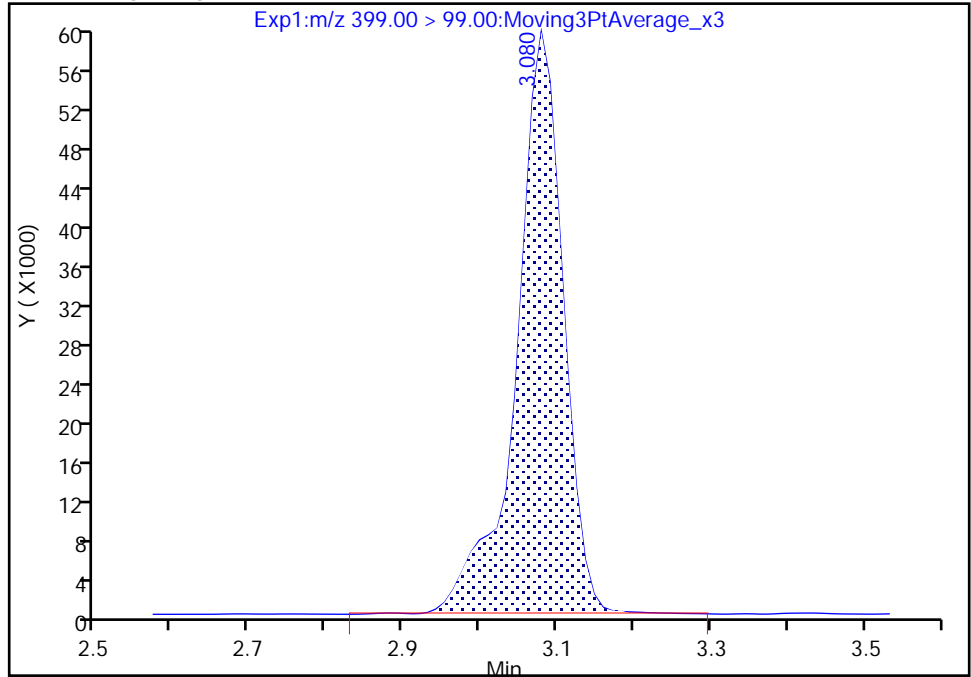
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

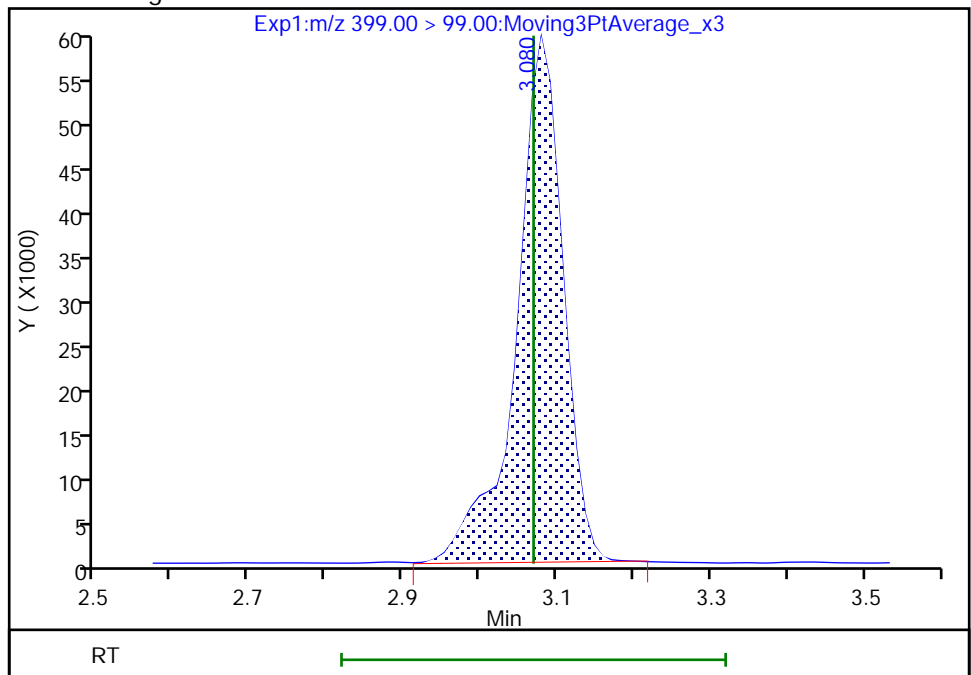
RT: 3.08
Area: 254410
Amount: 0.848170
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 252213
Amount: 0.847195
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:22:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 874 of 950

Eurofins Burlington

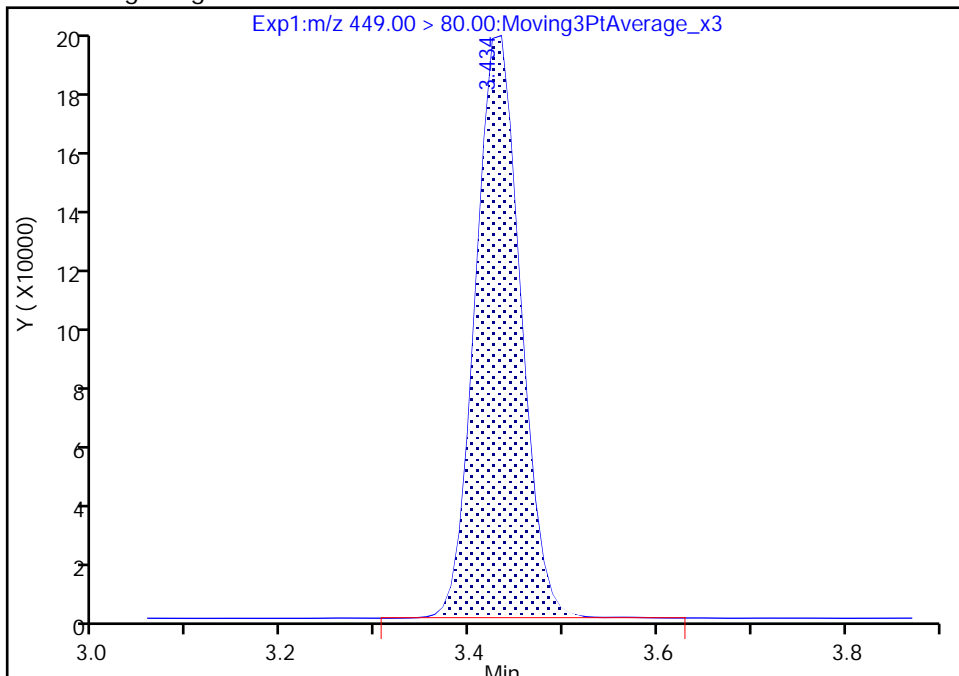
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Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

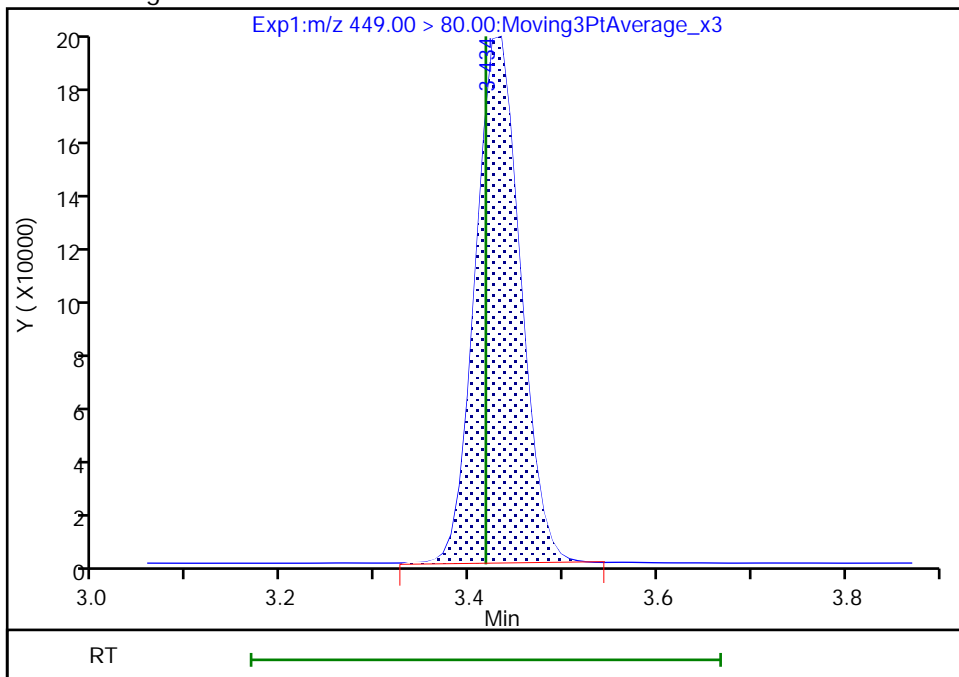
RT: 3.43
Area: 662671
Amount: 0.958206
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 660533
Amount: 0.955114
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:23:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

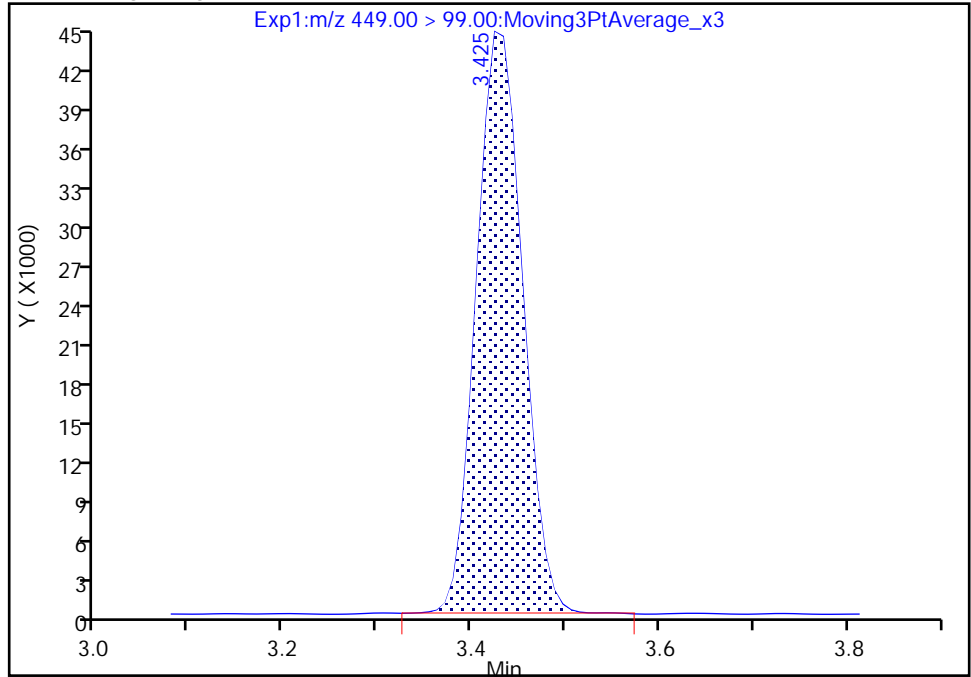
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

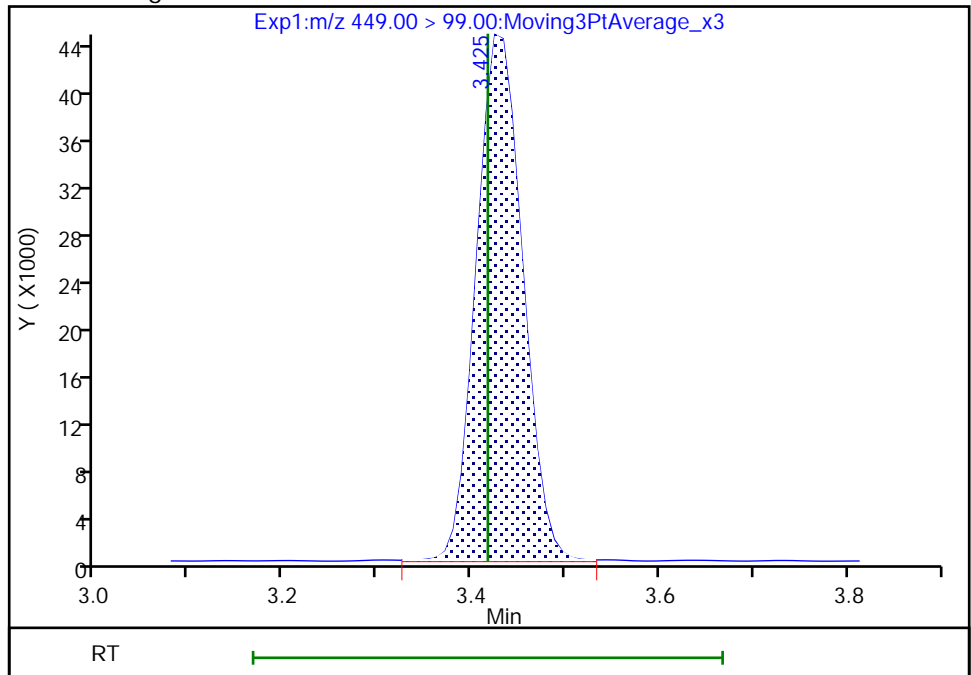
RT: 3.42
Area: 154231
Amount: 0.958206
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 154029
Amount: 0.955114
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:23:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

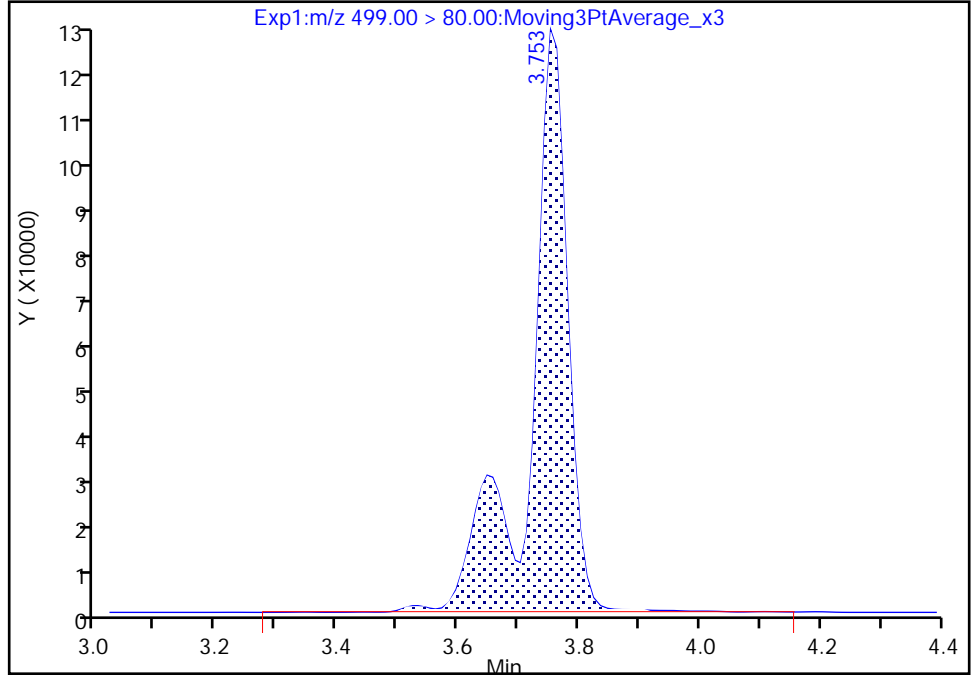
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

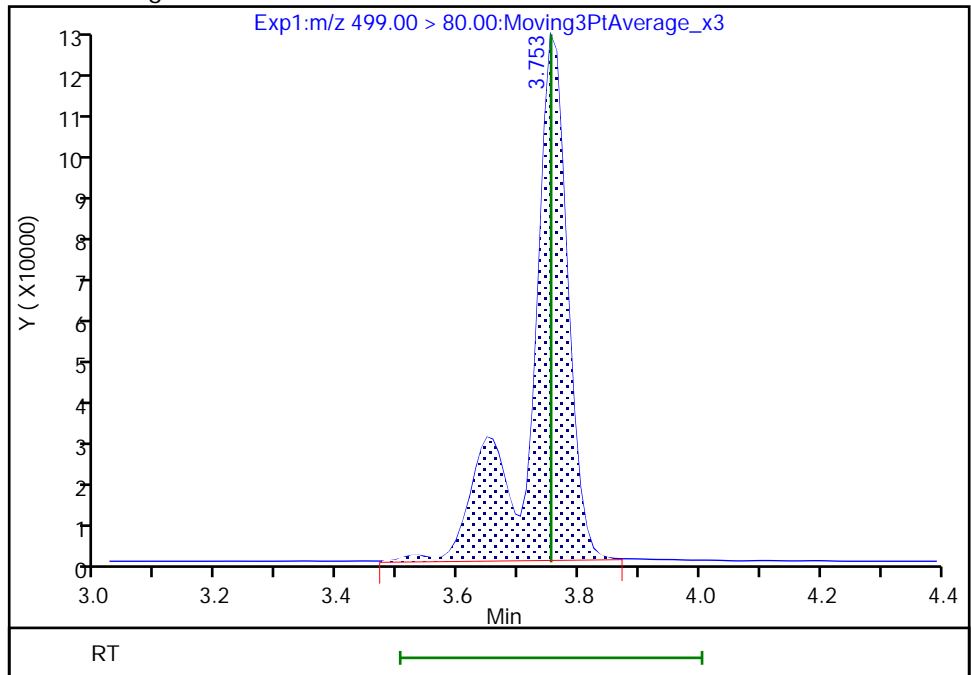
RT: 3.75
Area: 555464
Amount: 0.962057
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 544597
Amount: 0.943236
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:23:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

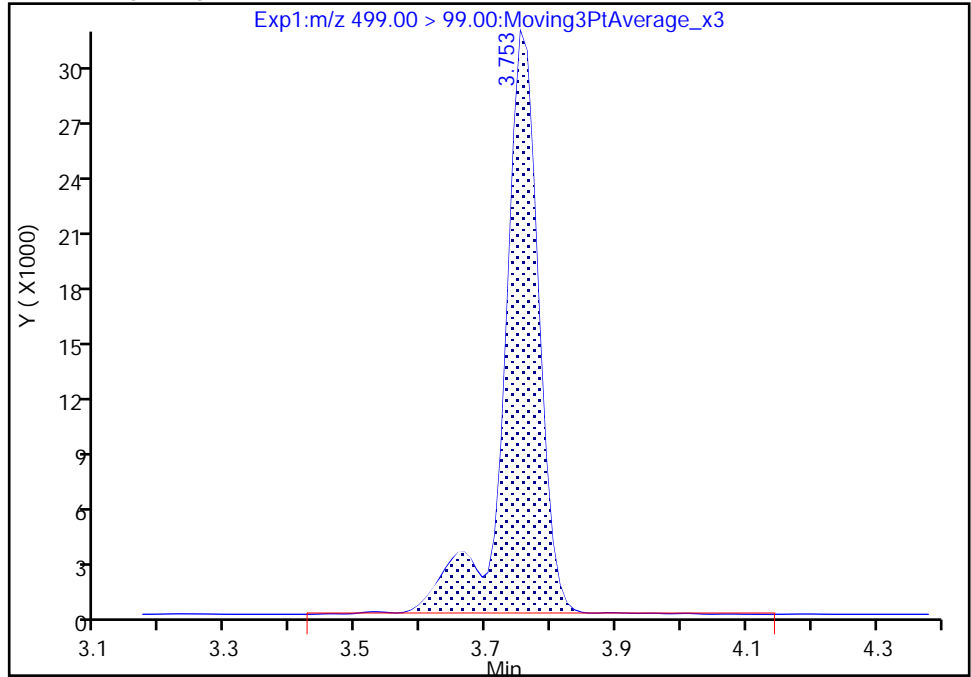
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

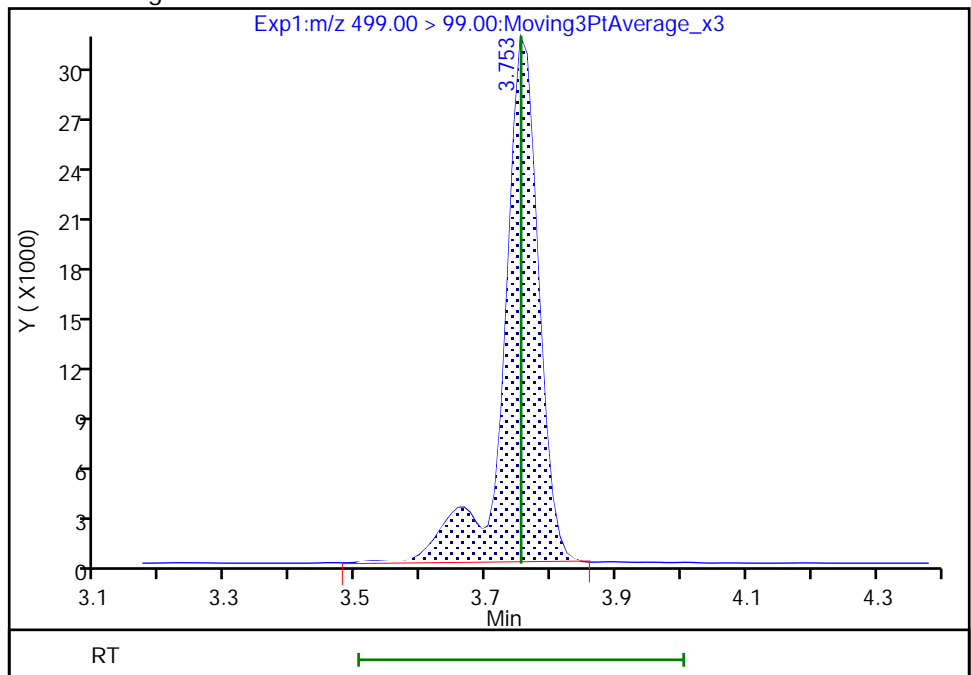
RT: 3.75
Area: 118295
Amount: 0.962057
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 116665
Amount: 0.943236
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:23:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

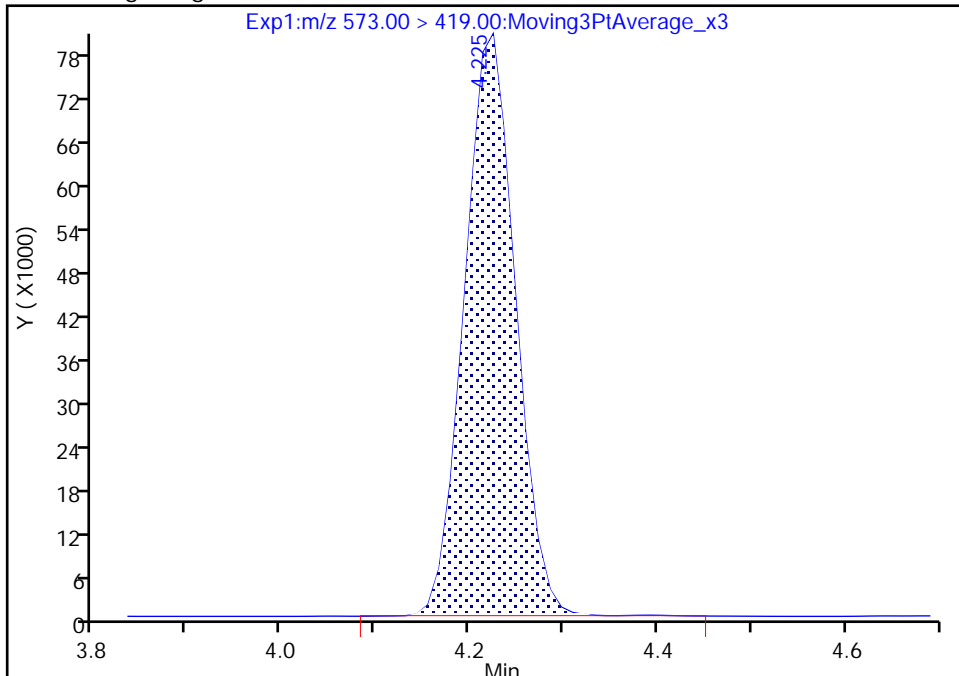
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

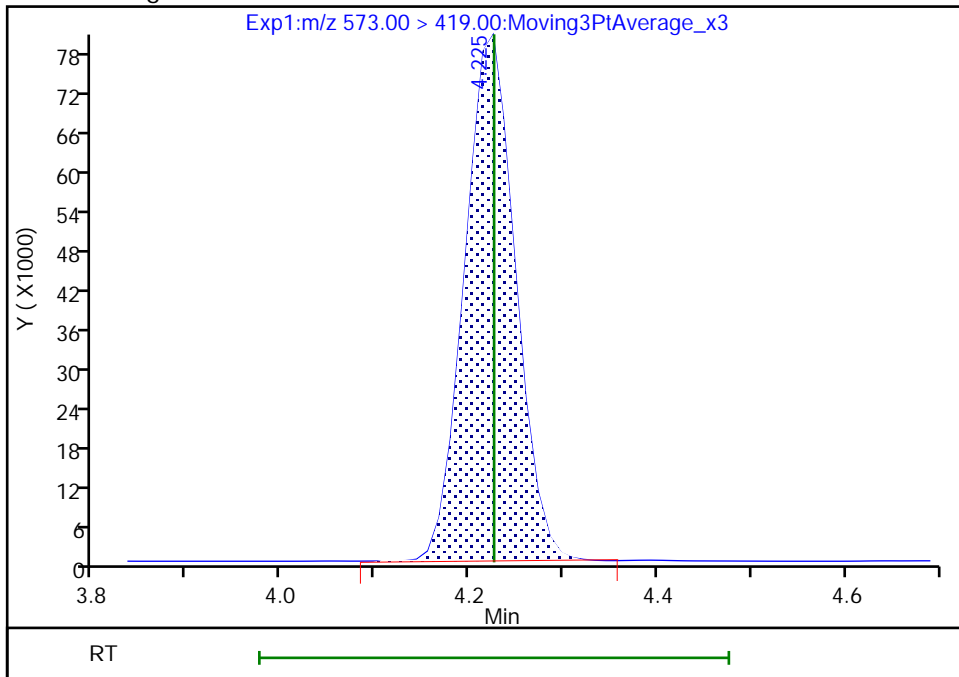
RT: 4.23
Area: 303355
Amount: 1.134245
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 302523
Amount: 1.131134
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:21:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

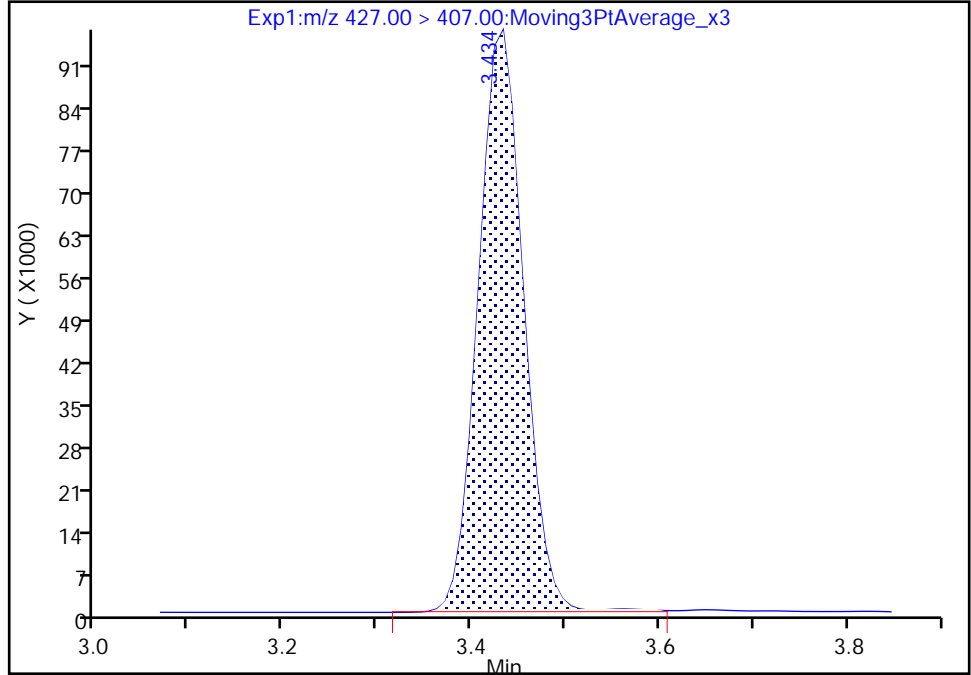
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

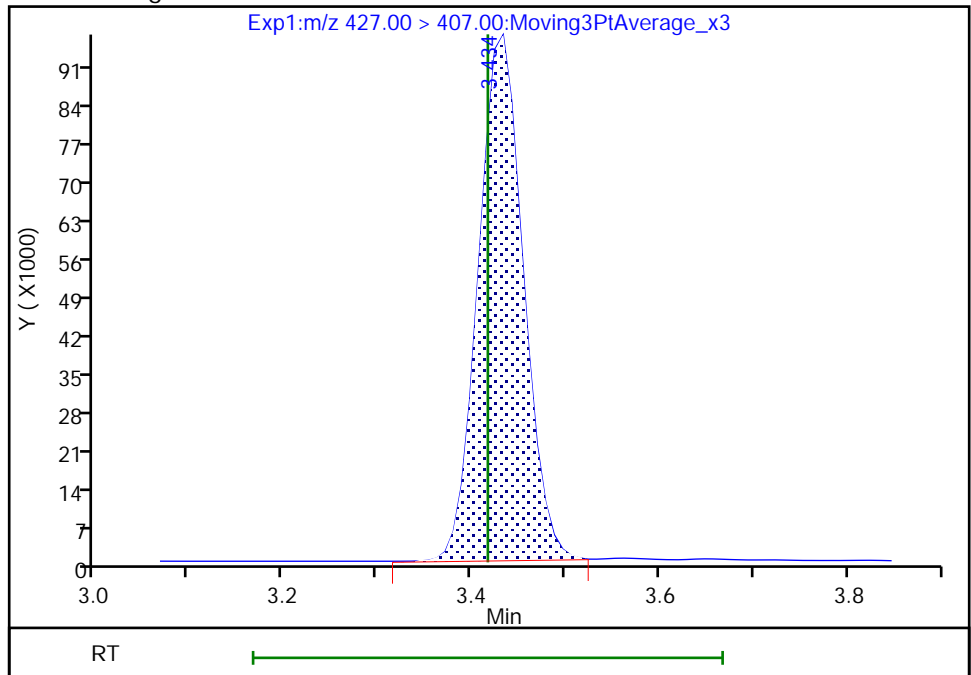
RT: 3.43
Area: 323342
Amount: 0.967917
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 321465
Amount: 0.962298
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:22:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

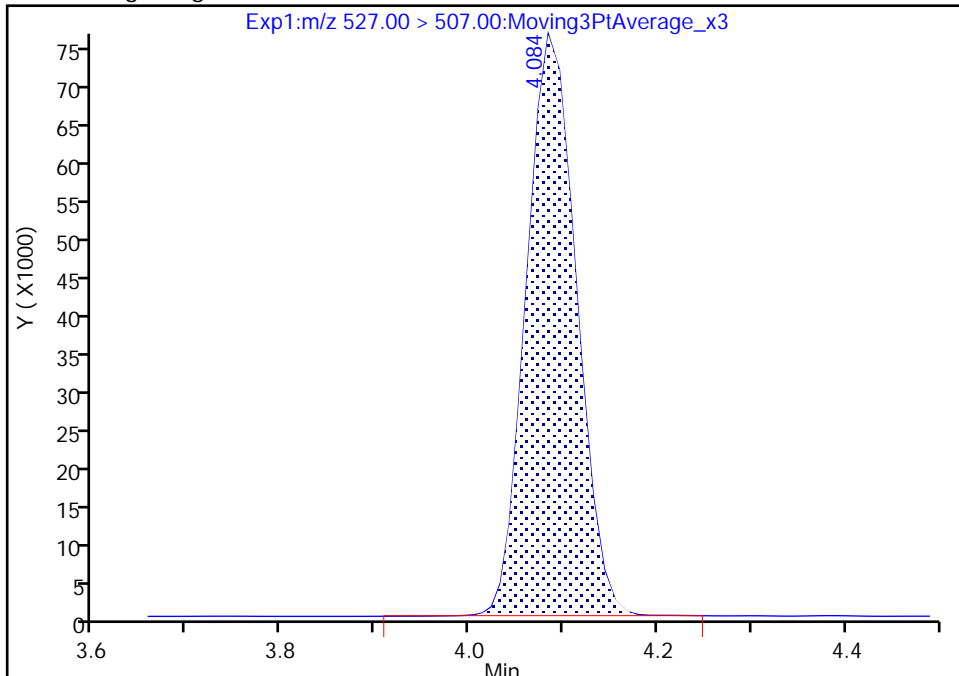
Data File: \\chromfs\Burlington\ChromData\LC812\20230123-54084.b\PA230123B04.d
Injection Date: 23-Jan-2023 19:56:54 Instrument ID: LC812
Lims ID: LCSD 200-187735/3-A
Client ID:
Operator ID: LC812user ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

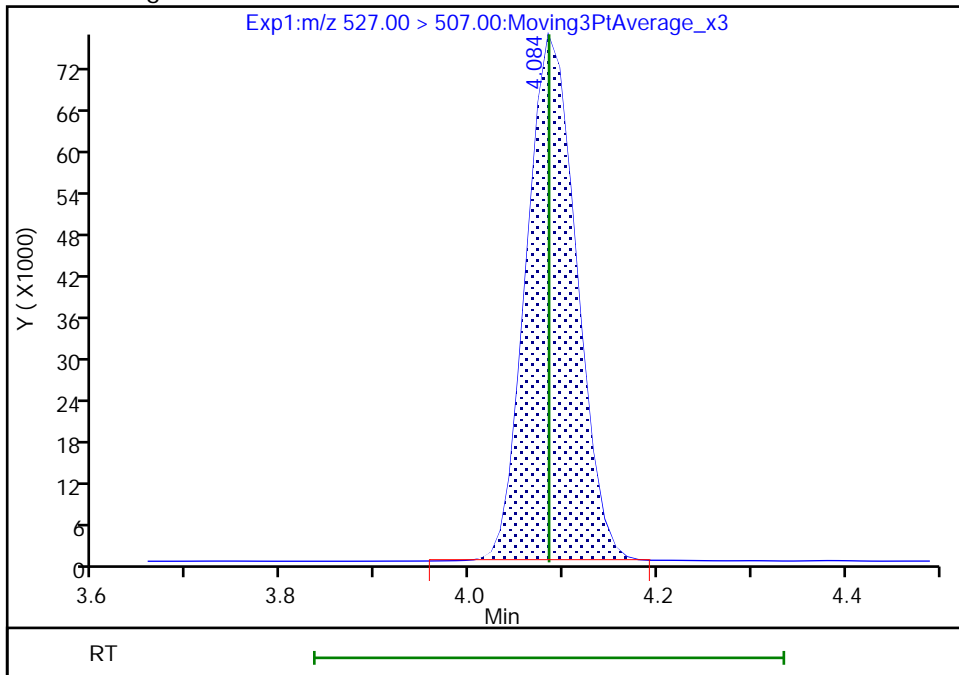
RT: 4.08
Area: 282633
Amount: 0.997058
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 281910
Amount: 0.994507
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-Jan-2023 11:23:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-48_(15-15.5)P MS Lab Sample ID: 460-273105-1 MS
 Matrix: Solid Lab File ID: PA230126A09.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.01(g) Date Analyzed: 01/26/2023 20:51
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 15.8 % Solids: 84.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.218		0.59	0.39
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.213		0.24	0.065
307-24-4	Perfluorohexanoic acid (PFHxA)	2.526		0.24	0.054
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.506		0.24	0.046
335-67-1	Perfluorooctanoic acid (PFOA)	2.260		0.24	0.069
375-95-1	Perfluorononanoic acid (PFNA)	2.258		0.24	0.040
335-76-2	Perfluorodecanoic acid (PFDA)	2.312		0.24	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.217		0.24	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	2.218		0.24	0.030
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.960		0.24	0.030
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.284		0.24	0.031
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.311		0.24	0.039
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.184		0.24	0.049
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.058		0.24	0.027
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.868		0.24	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.996		0.24	0.023
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.258		0.24	0.040
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.332	J	2.37	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.358	J	2.37	0.098
27619-97-2	6:2 FTS	2.304	J	2.37	0.068
39108-34-4	8:2 FTS	2.627		2.37	0.044

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-48_(15-15.5)P MS Lab Sample ID: 460-273105-1 MS
 Matrix: Solid Lab File ID: PA230126A09.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.01(g) Date Analyzed: 01/26/2023 20:51
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 15.8 % Solids: 84.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	67		50-150
STL01892	13C4 PFHpA	80		50-150
STL00990	13C4 PFOA	90		50-150
STL00991	13C4 PFOS	86		50-150
STL00995	13C5 PFNA	85		50-150
STL00992	13C4 PFBA	92		50-150
STL00993	13C2 PFHxA	84		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	101		50-150
STL00998	13C2 PFDoA	100		50-150
STL01056	13C8 FOSA	69		50-150
STL01893	13C5 PFPeA	81		50-150
STL02116	13C2 PFTeDA	92		50-150
STL02118	d3-NMeFOSAA	100		50-150
STL02117	d5-NEtFOSAA	113		50-150
STL02279	M2-6:2 FTS	80		50-150
STL02280	M2-8:2 FTS	84		50-150
STL02337	13C3 PFBS	70		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A09.d
 Lims ID: 460-273105-A-1-B MS
 Client ID: BCS-09-48_(15-15.5)P
 Sample Type: MS
 Inject. Date: 26-Jan-2023 20:51:49 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-1-B MS
 Misc. Info.: 200-0054135-009 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 13:15:57

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.085	2.094	-0.009	0.606	1814125	1.15	92.3	20699	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.000	1346584	0.9360		93.6	154	M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1288658	1.01	81.1	6652	
4 Perfluoropentanoic acid	262.90 > 219.00	2.383	2.370	0.013	1.000	1102574	0.9338	93.4	33.8	
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1127566	0.8080	69.5	93912	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.397	2.384	0.013	1.000	1013442	0.9753	Target=2.10	110	1085
298.90 > 99.00	2.397	2.384	0.013	1.000	509858		1.99(1.05-3.15)		67.6	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.692	2.669	0.023	1.000	264683	1.00	107	464	
D 60 M2-4:2 FTS	329.00 > 81.00	2.692	2.669	0.023	0.782	104180	0.9233	79.1	133	
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.789	1390420	1.05	84.2	8451	
6 Perfluorohexanoic acid	313.00 > 269.00	2.717	2.706	0.011	1.000	1249321	1.07	Target=13.16	107	250
313.00 > 119.00	2.717	2.706	0.011	1.000	92788		13.46(6.58-19.74)		163	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.730	2.706	0.024	0.886	857905	1.01	Target=2.90	108	871
349.00 > 99.00	2.730	2.706	0.024	0.886	306817		2.80(1.45-4.35)		357	
67 Perfluoro(2-propoxypropanoic) ac	285.00 > 169.00	2.830	2.806	0.024	1.000	171779	0.8793	87.9	1903	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	244300	1.07		85.4	2968	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.895	809235	0.7970		67.4	4560	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.091	3.069	0.022	1.004	692484	0.9219	Target=3.18	101	953	M
399.00 > 99.00	3.080	3.069	0.011	1.000	226579		3.06(1.59-4.77)	106	106	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.091	3.069	0.022	0.898	1322978	1.00		80.0	7368	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.000	1192034	1.06	Target=4.10	106	248	
363.00 > 169.00	3.091	3.069	0.022	1.000	298648		3.99(2.05-6.16)	1155	1155	
77 DONA										
377.00 > 251.00	3.126	3.104	0.022	0.831	3115605	1.02	Target=2.96	109	2758	
377.00 > 85.00	3.126	3.104	0.022	0.831	967380		3.22(1.48-4.44)	2078	2078	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	151686	0.9477		79.8	298	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	284427	0.9724		103	325	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.425	3.417	0.008	0.910	671254	0.8683	Target=4.59	91.2	1238	M
449.00 > 99.00	3.425	3.417	0.008	0.910	157163		4.27(2.30-6.89)	197	197	M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1568140	1.12		89.5	4657	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1709658	1.25			4656	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	1302227	0.9538	Target=2.71	95.4	127	
413.00 > 169.00	3.443	3.426	0.017	1.000	444516		2.93(1.36-4.07)	2160	2160	
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.754	0.009	1.093	634848	1.03		86.1	2217	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.753	3.754	-0.001	0.997	508829	0.7884	Target=4.23	85.0	681	M
499.00 > 99.00	3.753	3.754	-0.001	0.997	136457		3.73(2.11-6.34)	324	324	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	0.997	1133193	0.9530	Target=8.78	95.3	220	
463.00 > 169.00	3.773	3.774	-0.001	0.997	132919		8.53(4.39-13.17)	719	719	
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.774	0.009	1.099	1454978	1.07		85.3	9294	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	1285561	0.8345		89.5	2867	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.077	418509	0.7808	Target=2.37	81.3	2429	M
549.00 > 99.00	4.052	4.043	0.009	1.077	180894		2.31(1.18-3.55)	459	459	M
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1651860	1.18		94.4	14273	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.073	4.074	-0.001	1.000	1378537	0.9756	Target=11.13	97.6	389	
513.00 > 169.00	4.073	4.074	-0.001	1.000	129647		10.63(5.56-16.69)		653	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	201917	1.01		84.1	566	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	339160	1.11		116	5749	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	753384	0.9531		95.3	2488	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	982493	0.8634		69.1	5056	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	344304	1.25		100	905	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	244406	0.9841		98.4	594	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.322	4.322	0.0	1.148	336568	0.8423	Target=2.45	87.4	1870	
599.00 > 99.00	4.322	4.322	0.0	1.148	136255		2.47(1.23-3.68)		339	
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1520026	1.26		101	6566	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.345	4.346	-0.001	1.000	1242308	0.9358	Target=10.33	93.6	435	
563.00 > 169.00	4.345	4.346	-0.001	1.000	115118		10.79(5.17-15.50)		1561	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	276819	1.00		99.5	3688	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	374305	1.42		113	889	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.452	4.452	0.0	1.183	2056288	0.8625		91.6	6230	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	1153627	0.9360	Target=8.10	93.6	174	
613.00 > 169.00	4.583	4.584	-0.001	1.000	149332		7.73(4.05-12.15)		1525	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1513165	1.25		99.9	5256	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	222699	1.15		119	3620	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.770	4.770	0.0	1.267	132352	0.8154	Target=0.51	84.2	3488	
699.00 > 99.00	4.770	4.770	0.0	1.267	255631		0.52(0.26-0.77)		4143	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.808	4.799	0.009	1.049	1018152	0.8271	Target=6.06	82.7	137	
663.00 > 169.00	4.798	4.799	-0.001	1.047	175236		5.81(3.03-9.09)		1623	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	115146	0.9639	Target=0.83	96.4	2010	
713.00 > 219.00	5.004	4.998	0.006	1.000	122883		0.94(0.42-1.25)		1446	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.454	1195963	1.15		91.8	4655	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.371	5.362	0.009	1.002	936352	0.8807	Target=6.74	88.1	155	
813.00 > 169.00	5.360	5.362	-0.002	1.000	159816		5.86(3.37-10.11)		1731	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1431147	1.12		89.6	5996	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.711	0.008	1.067	805245	0.8696	Target=6.99	87.0	197	
913.00 > 169.00	5.719	5.711	0.008	1.067	105746		7.61(3.50-10.49)		935	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A09.d

Injection Date: 26-Jan-2023 20:51:49

Instrument ID: LC812

Lims ID: 460-273105-A-1-B MS

Client ID: BCS-09-48_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

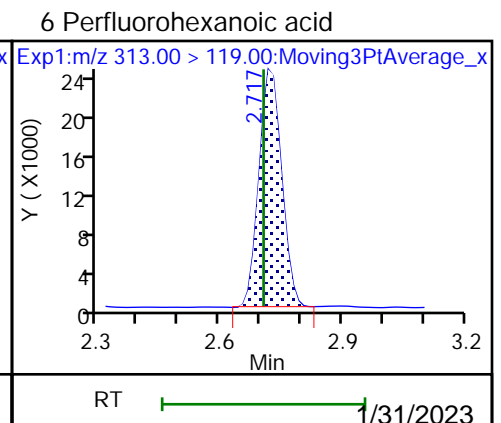
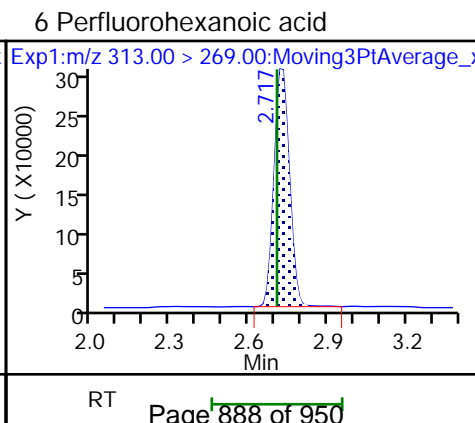
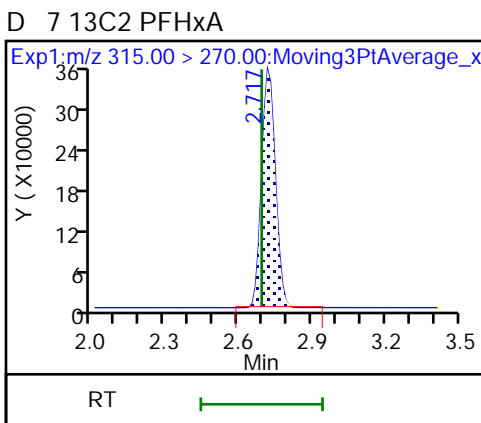
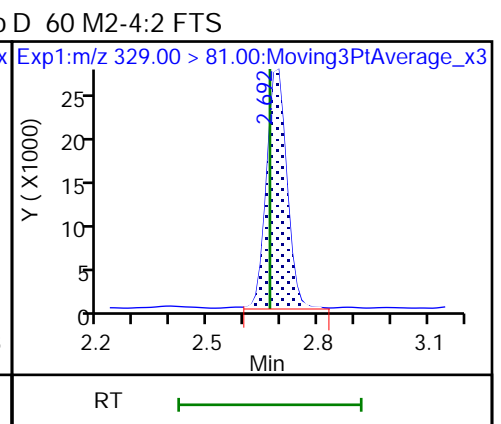
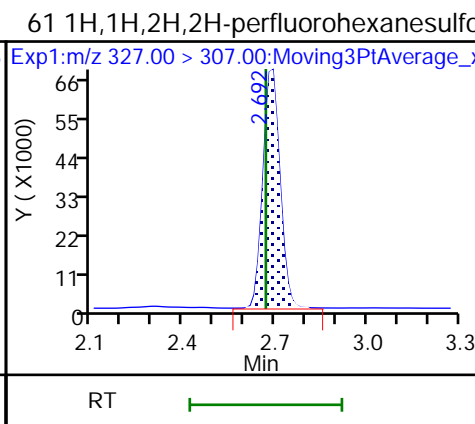
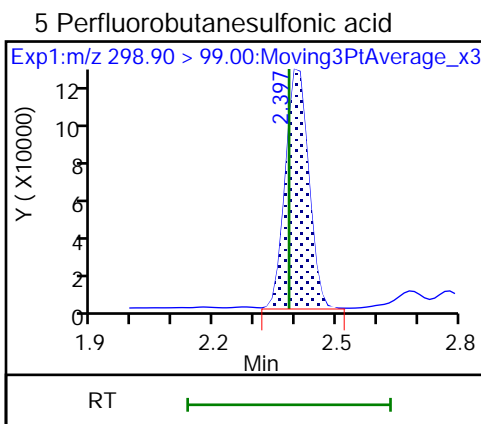
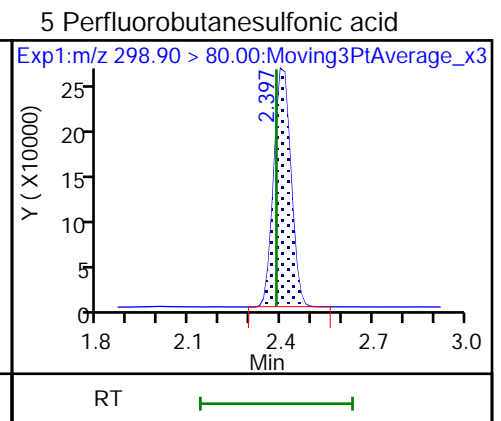
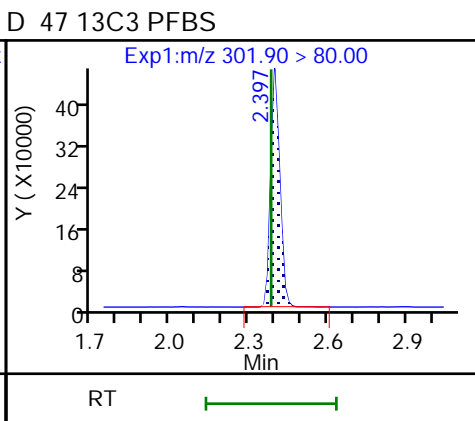
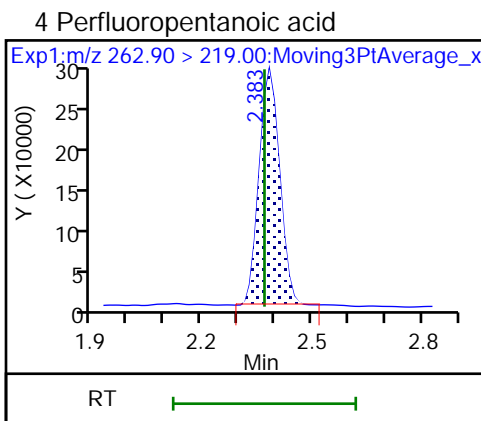
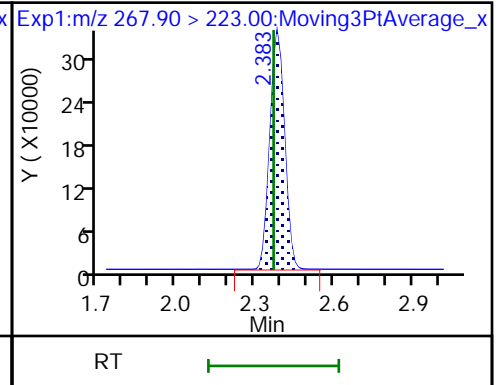
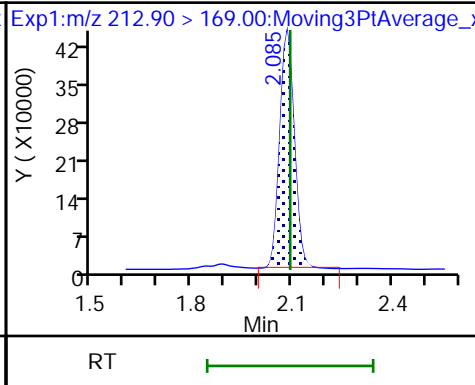
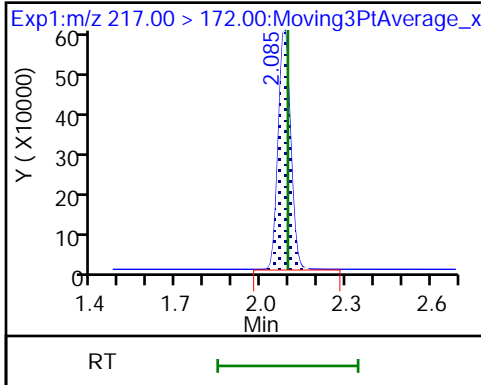
Method: PFC_LC812

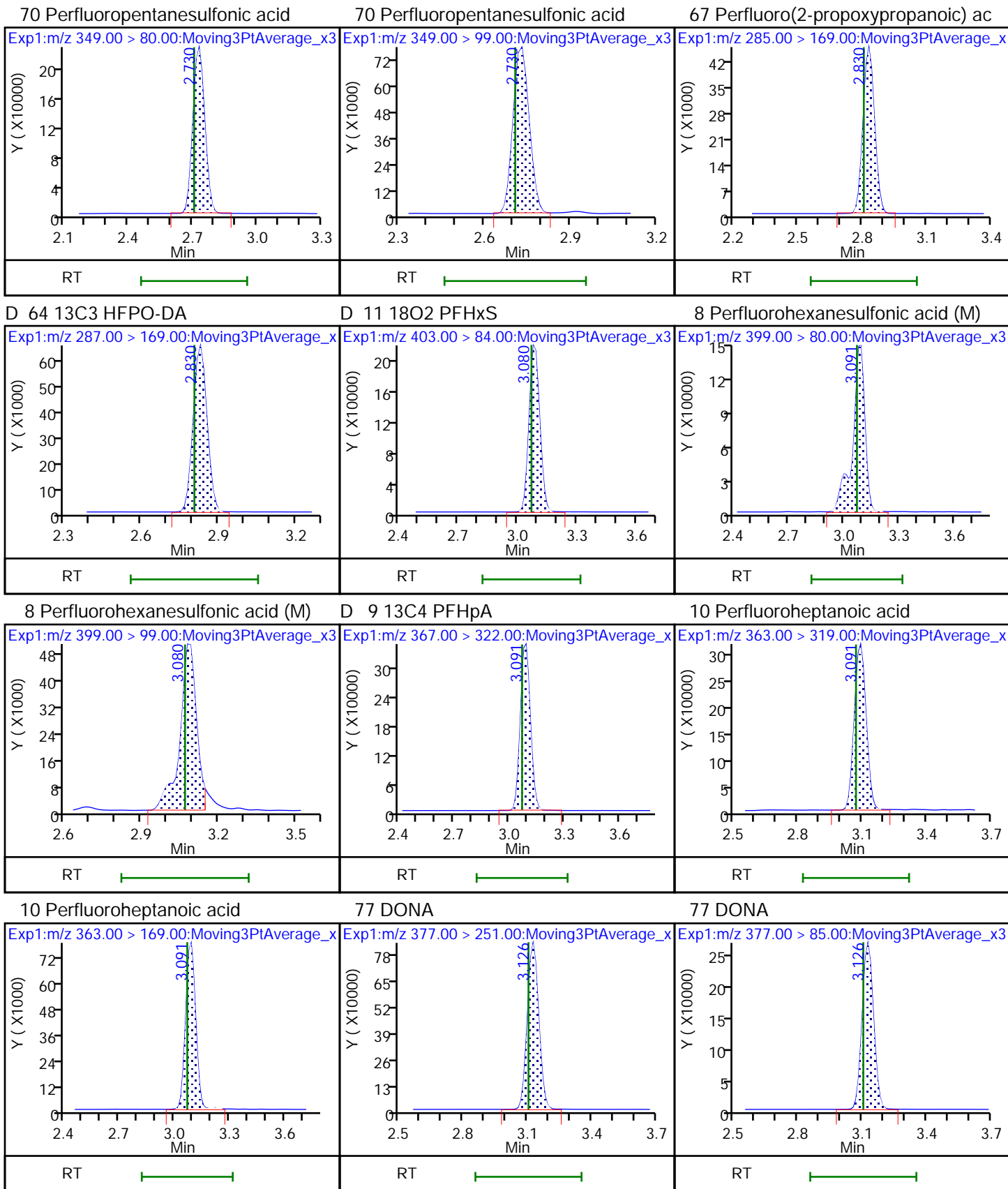
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D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

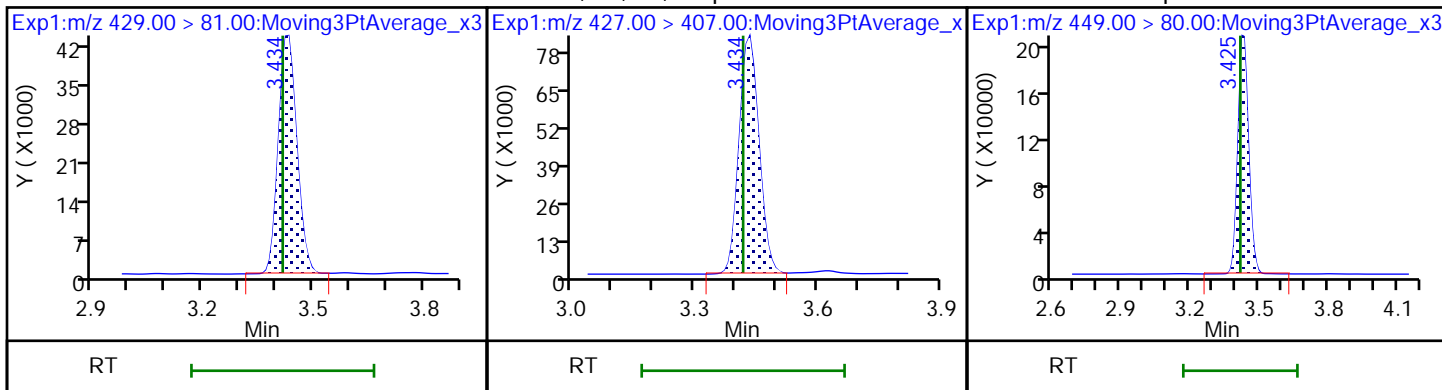




D 12 M2-6:2 FTS

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

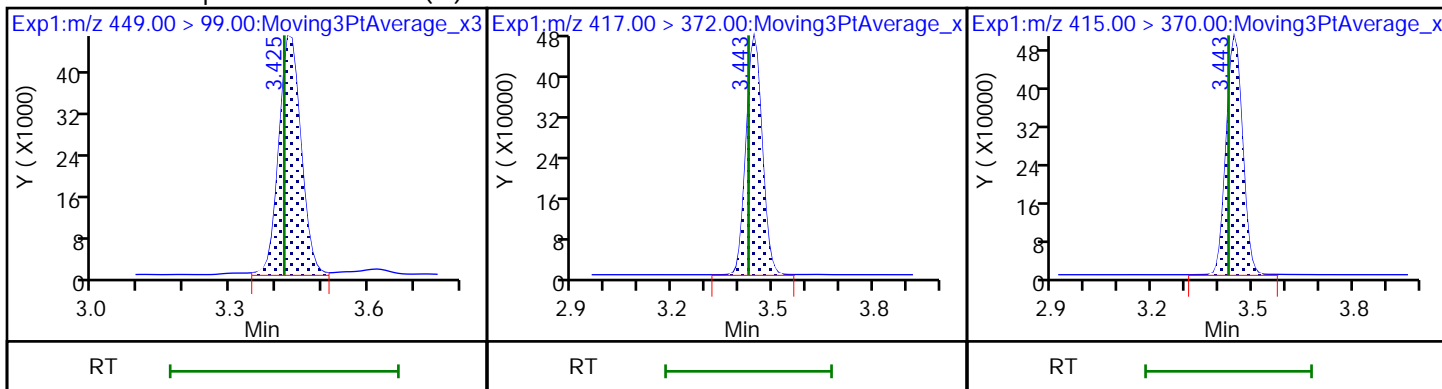
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

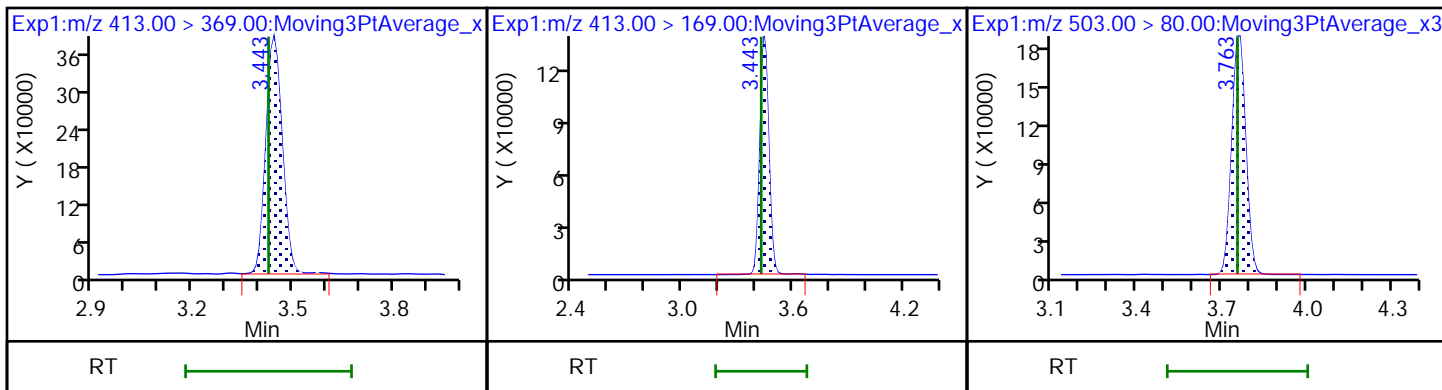
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

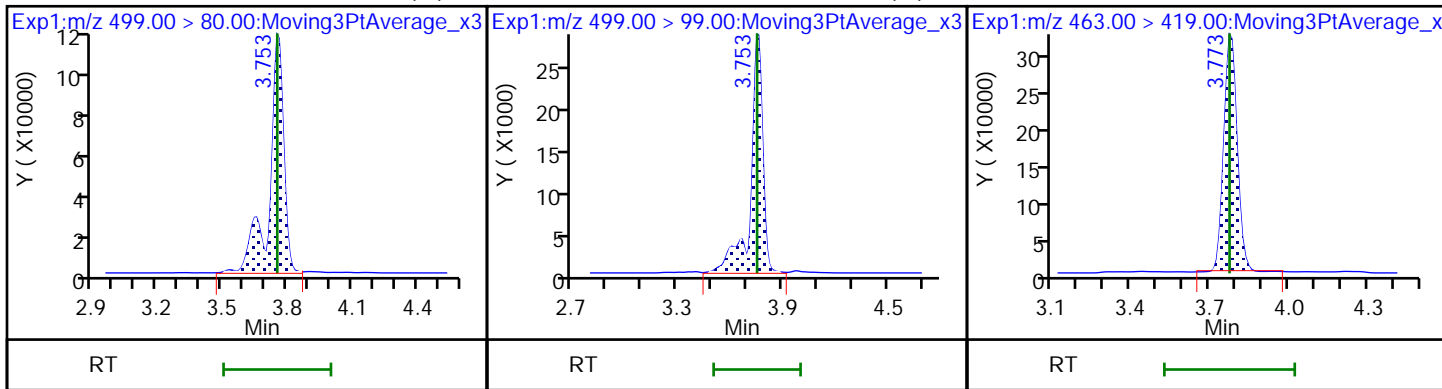
D 18 13C4 PFOS

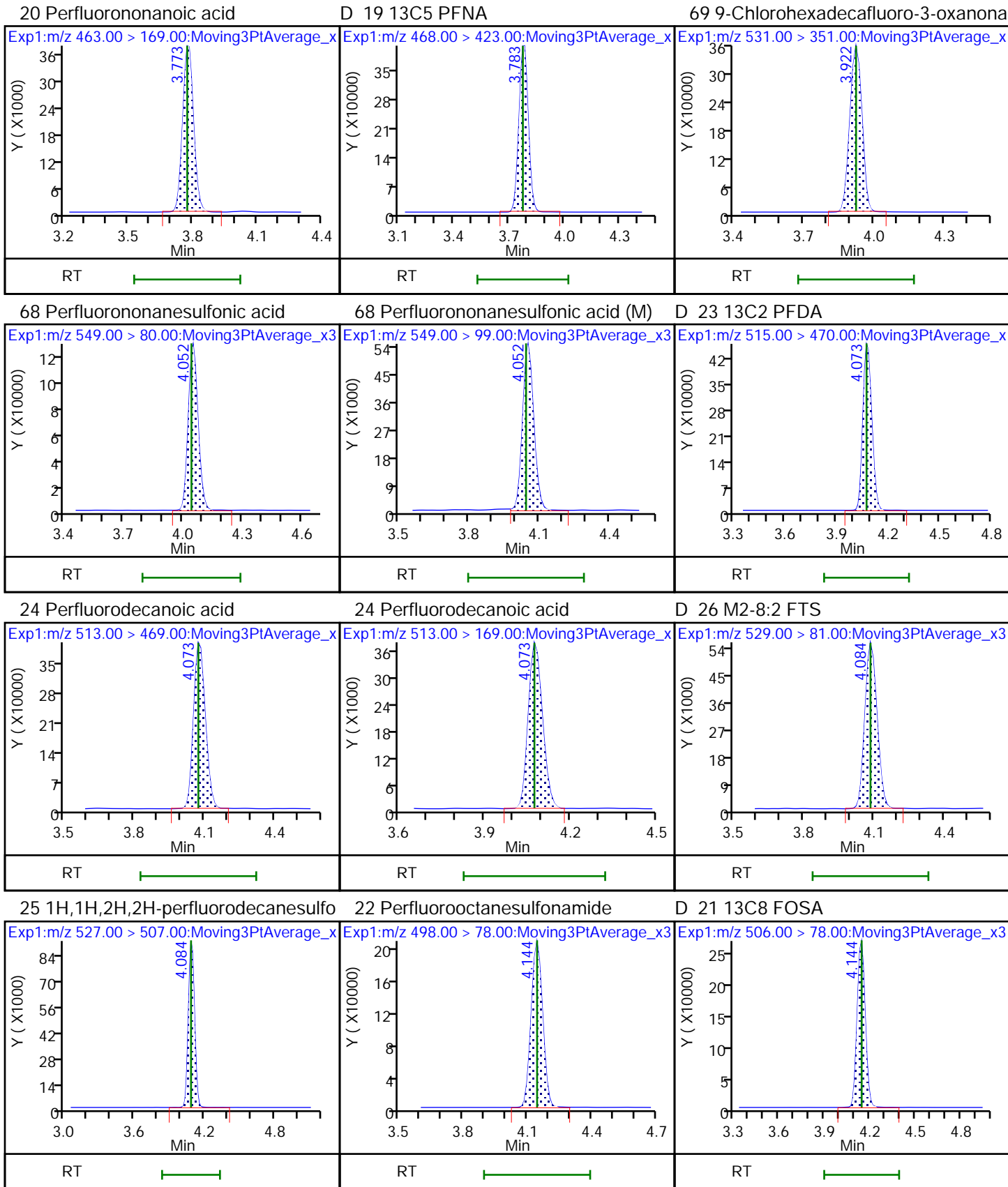


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

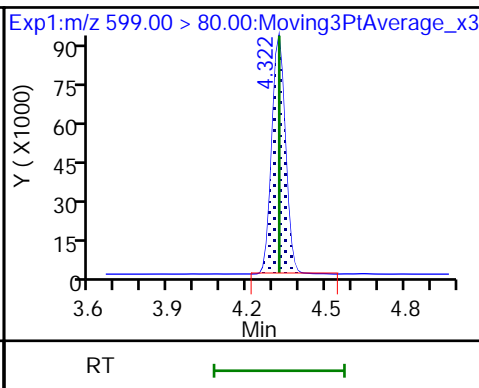
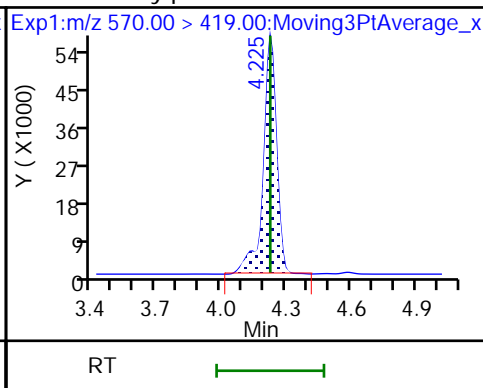
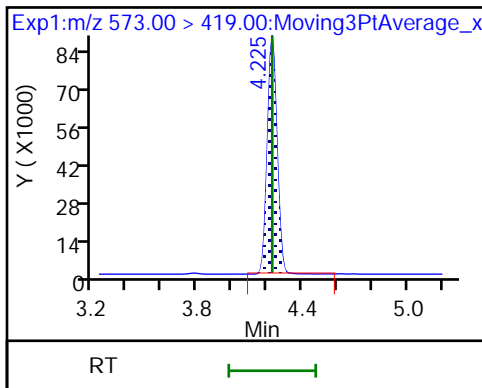




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

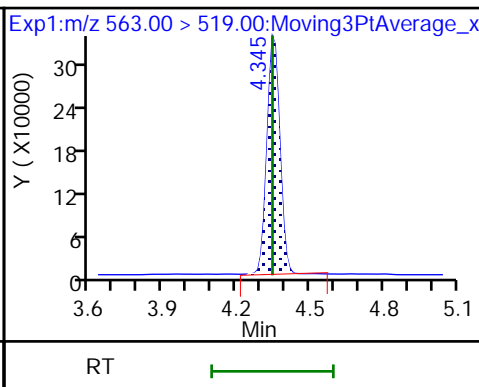
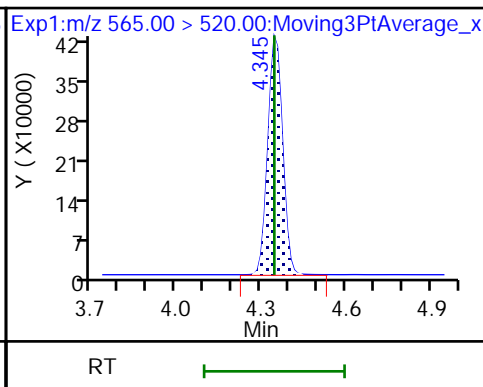
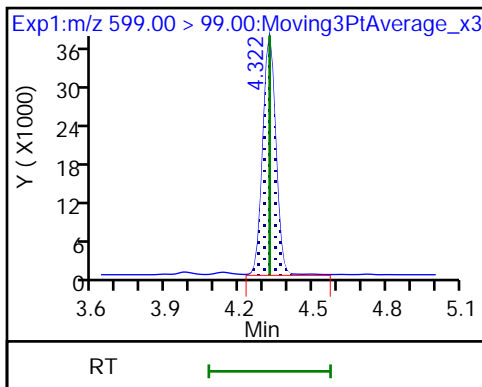
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

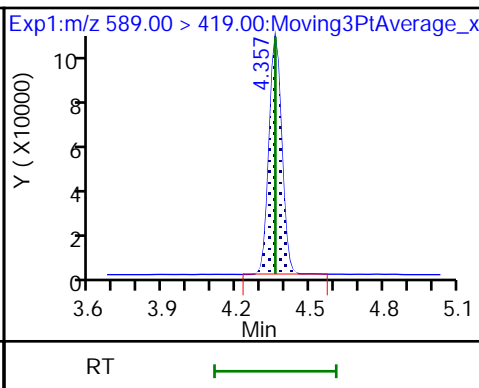
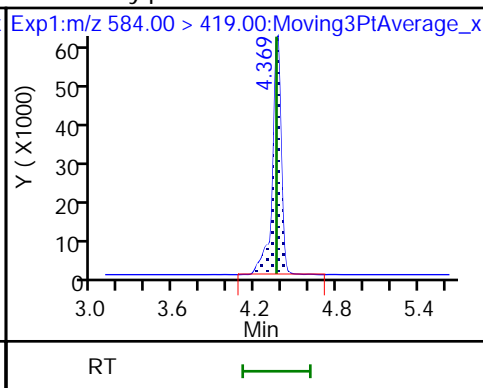
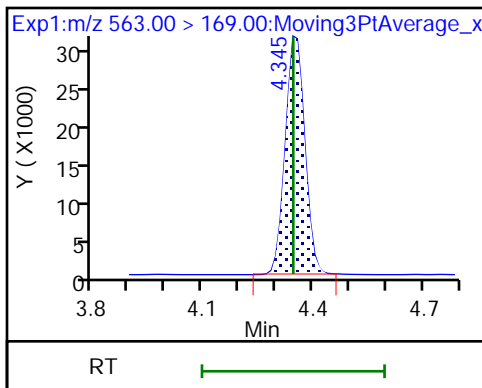
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid

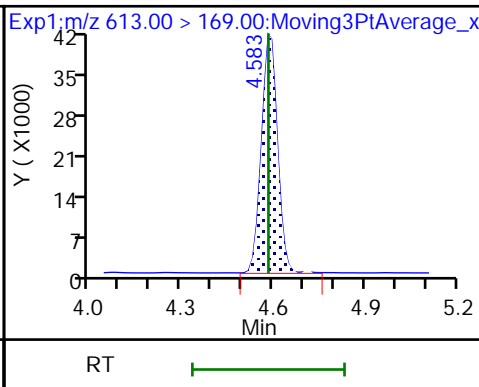
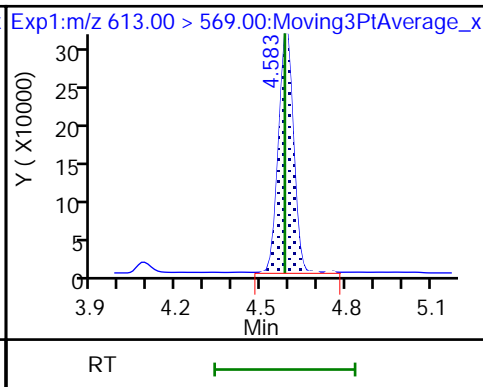
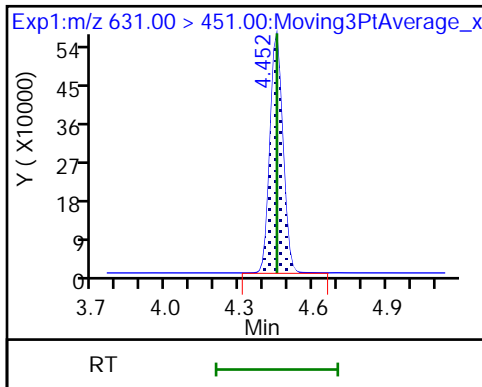
D 32 d5-NEtFOSAA



66 11-Chloroeicosafuoro-3-oxaundec

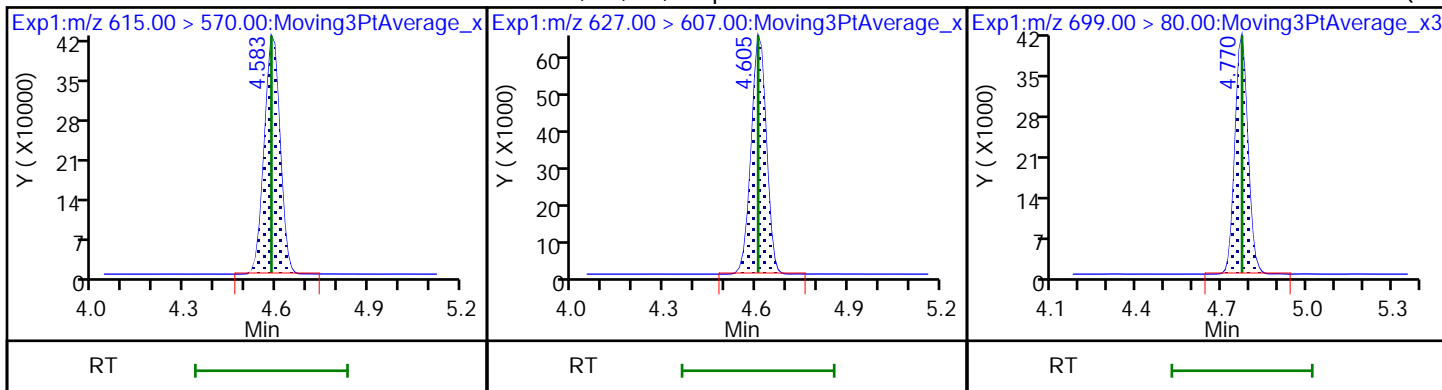
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

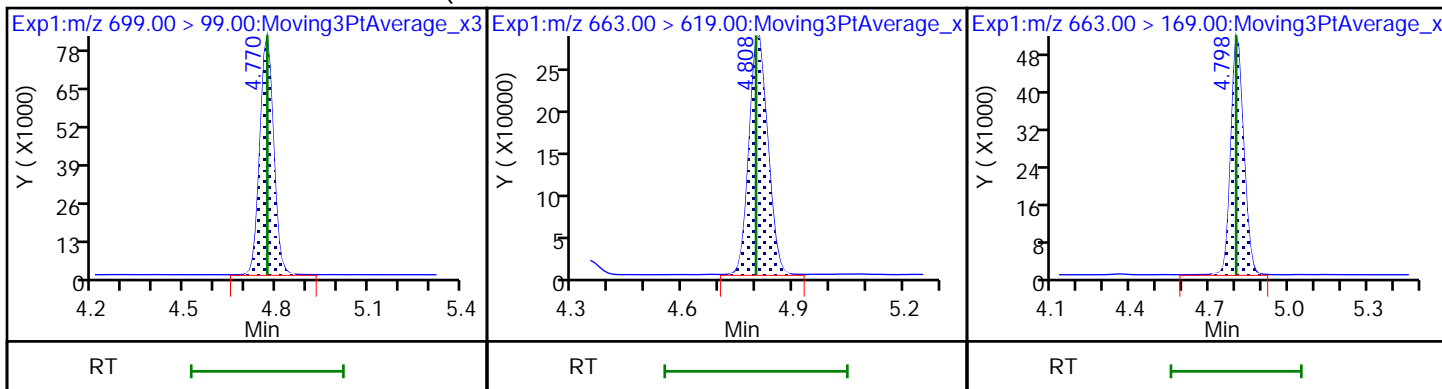
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

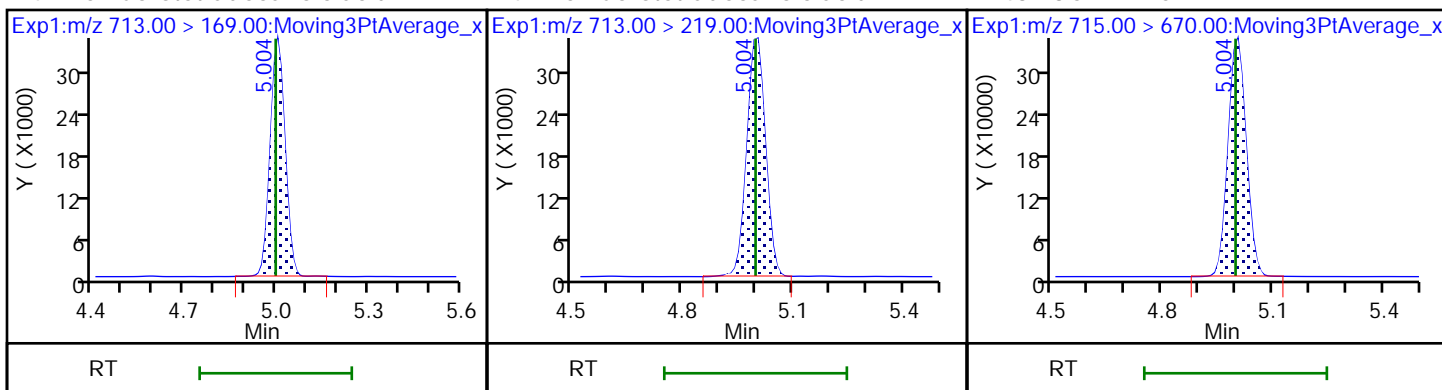
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

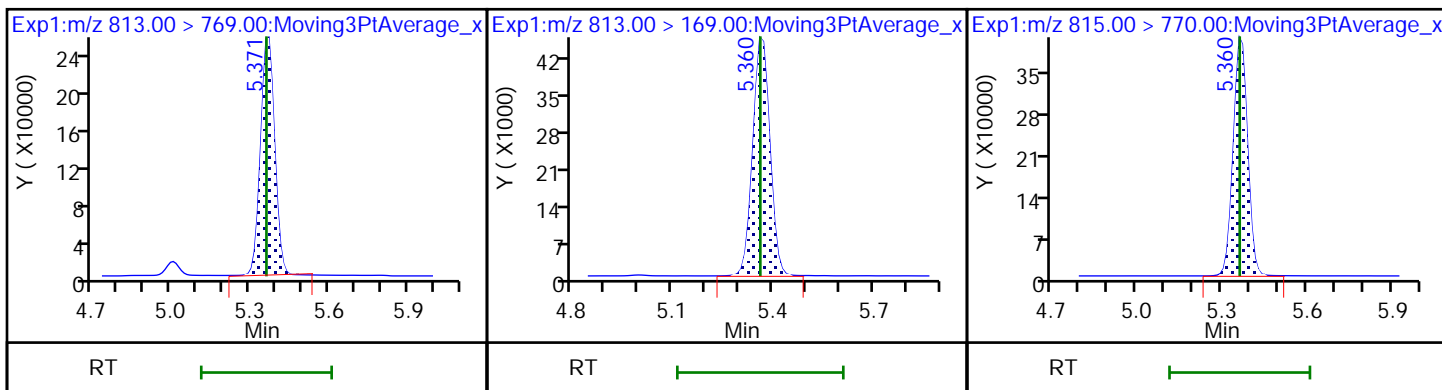
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

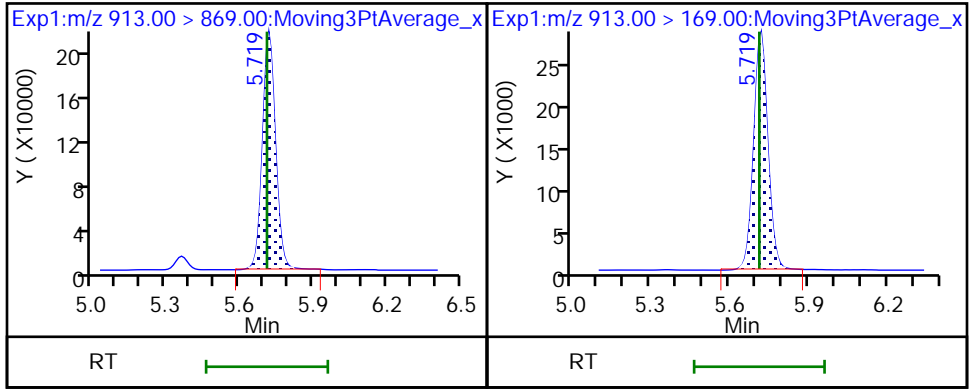
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

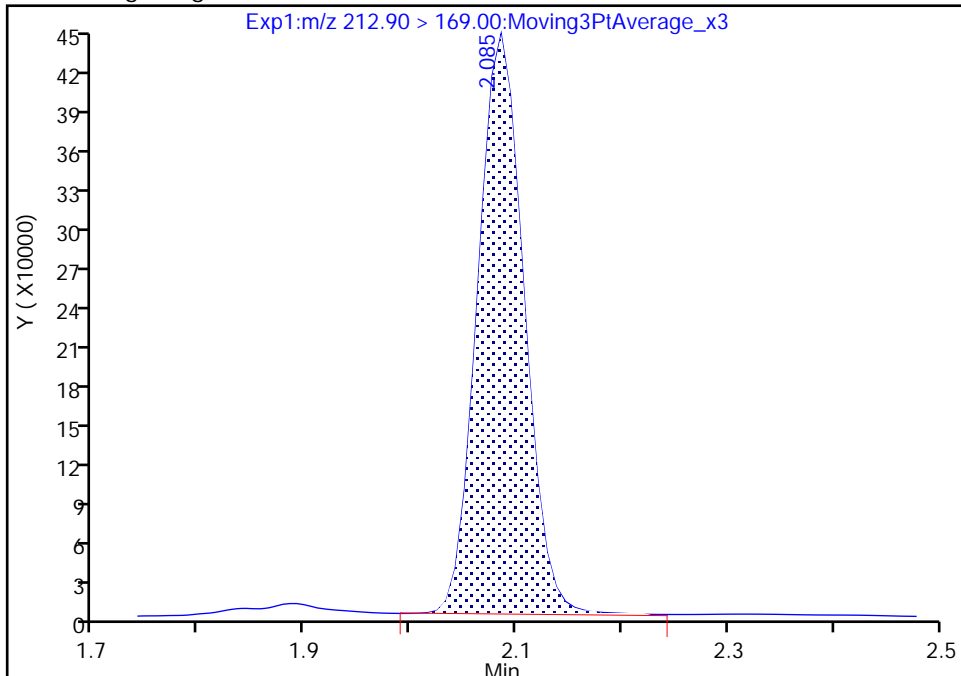
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Injection Date: 26-Jan-2023 20:51:49 Instrument ID: LC812
Lims ID: 460-273105-A-1-B MS
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

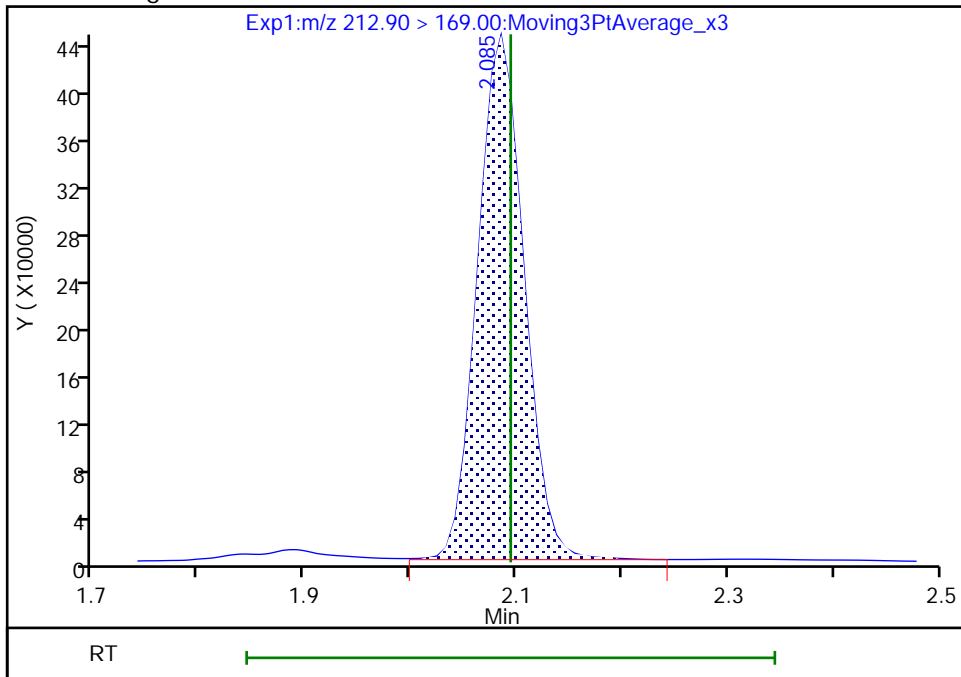
RT: 2.09
Area: 1351858
Amount: 0.939793
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1346584
Amount: 0.935958
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:18:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

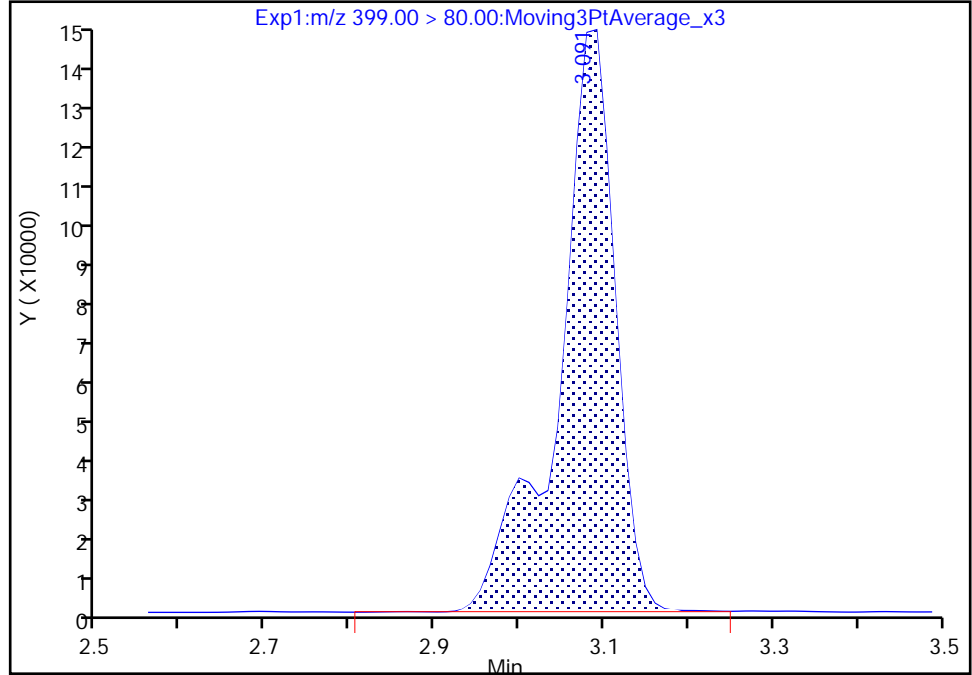
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Injection Date: 26-Jan-2023 20:51:49 Instrument ID: LC812
Lims ID: 460-273105-A-1-B MS
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

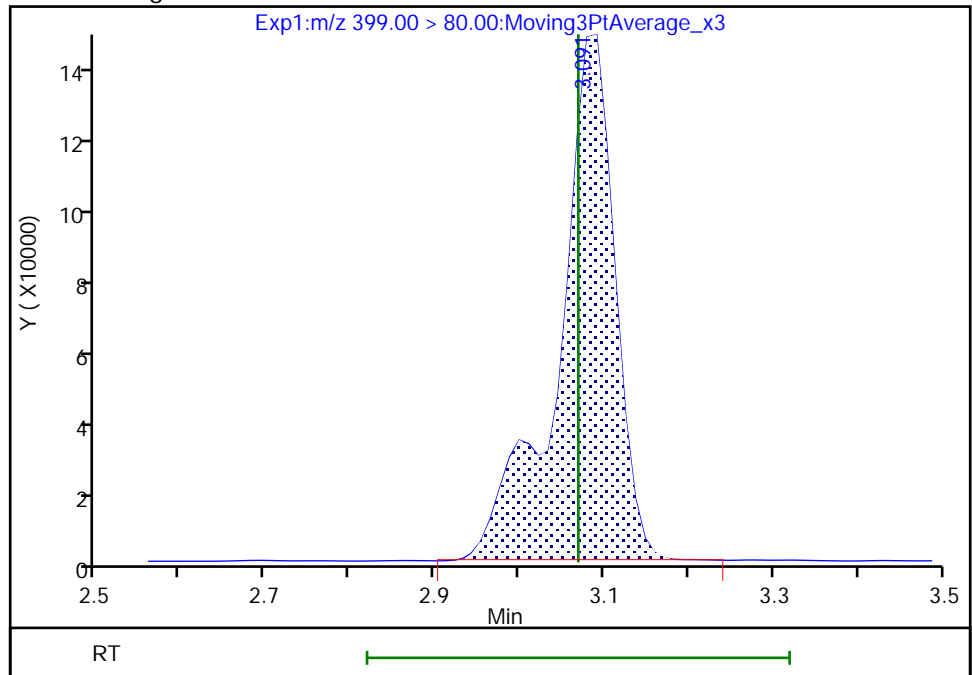
RT: 3.09
Area: 693254
Amount: 0.922885
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 692484
Amount: 0.921860
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:14:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 896 of 950

Eurofins Burlington

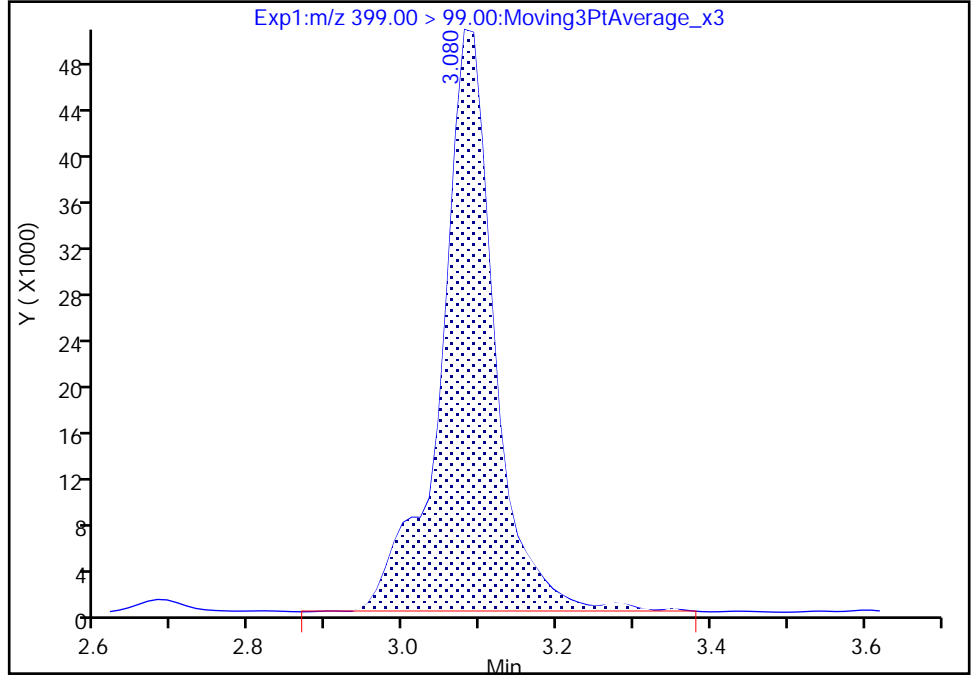
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Injection Date: 26-Jan-2023 20:51:49 Instrument ID: LC812
Lims ID: 460-273105-A-1-B MS
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

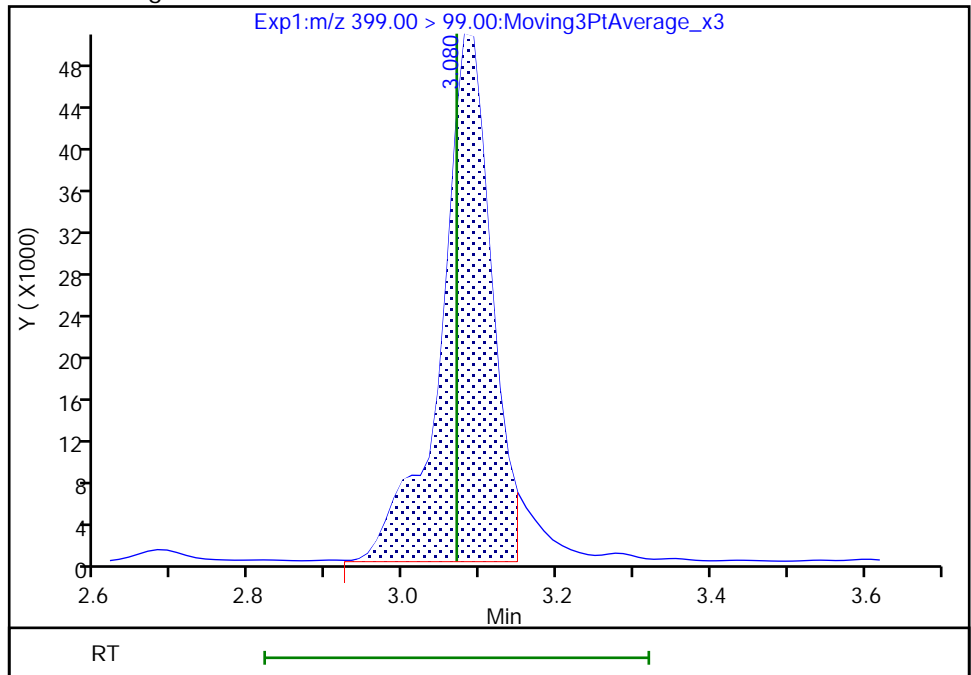
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Area: 244004
Amount: 0.922885
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 226579
Amount: 0.921860
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:14:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

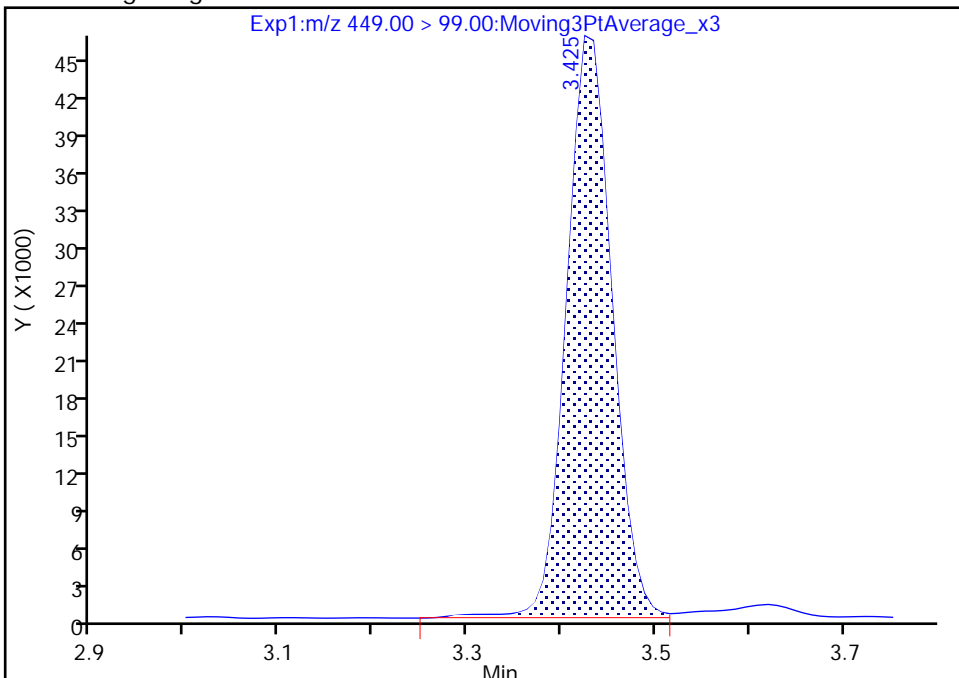
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Injection Date: 26-Jan-2023 20:51:49 Instrument ID: LC812
Lims ID: 460-273105-A-1-B MS
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

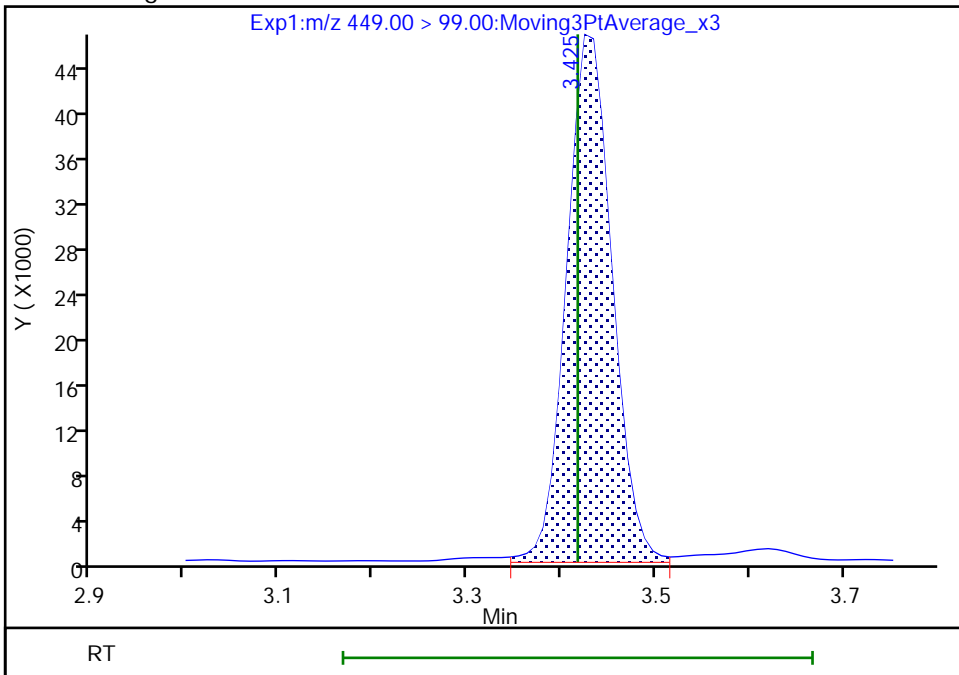
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Amount: 0.868338
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 157163
Amount: 0.868338
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:14:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

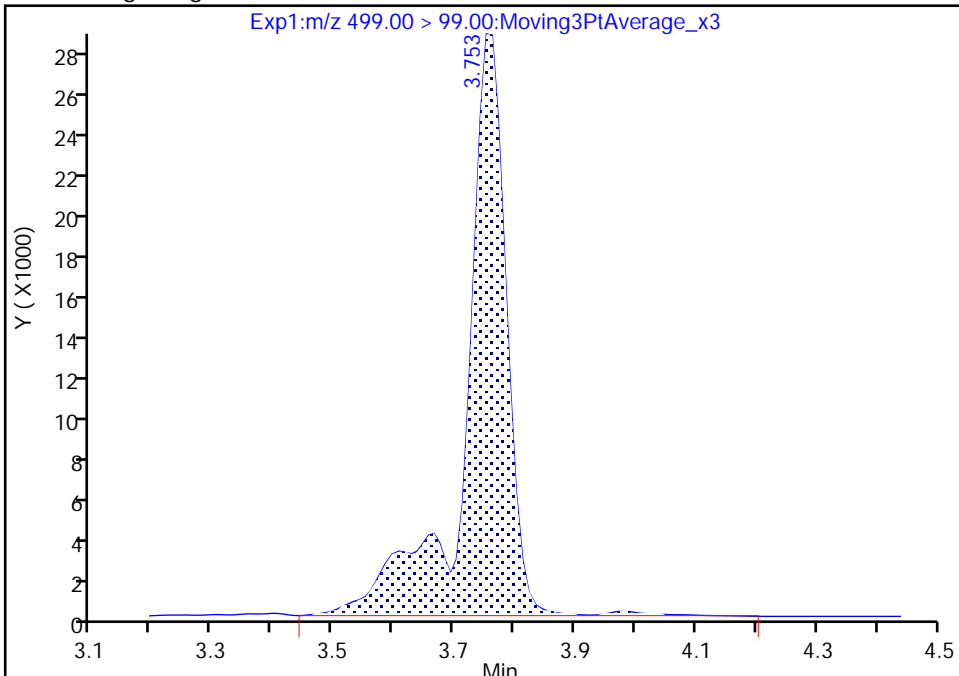
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A09.d
Injection Date: 26-Jan-2023 20:51:49 Instrument ID: LC812
Lims ID: 460-273105-A-1-B MS
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

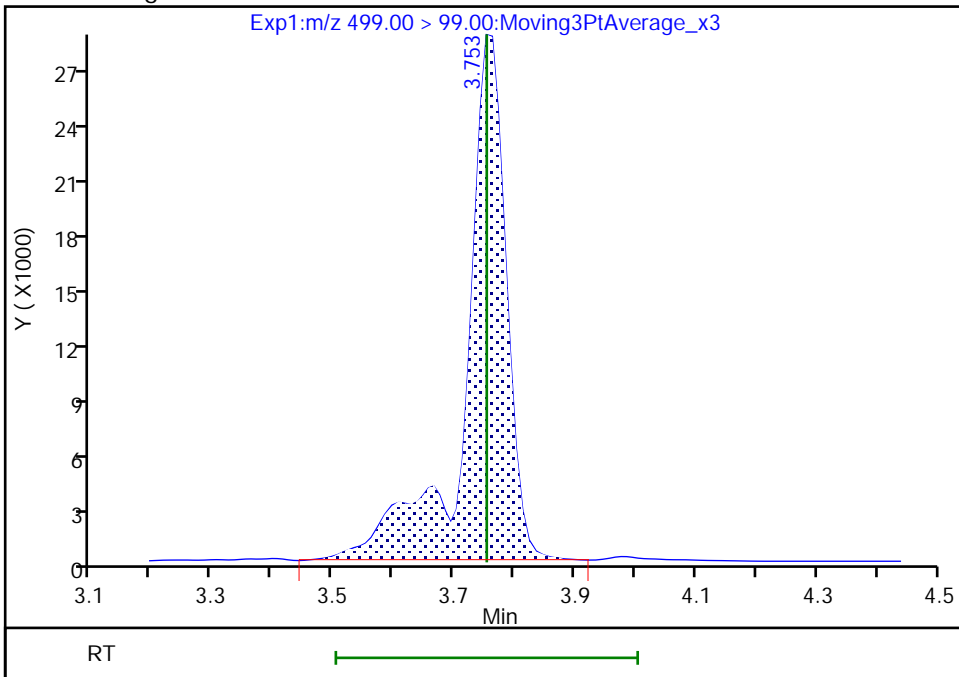
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Area: 139429
Amount: 0.801540
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
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Amount: 0.788421
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:15:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

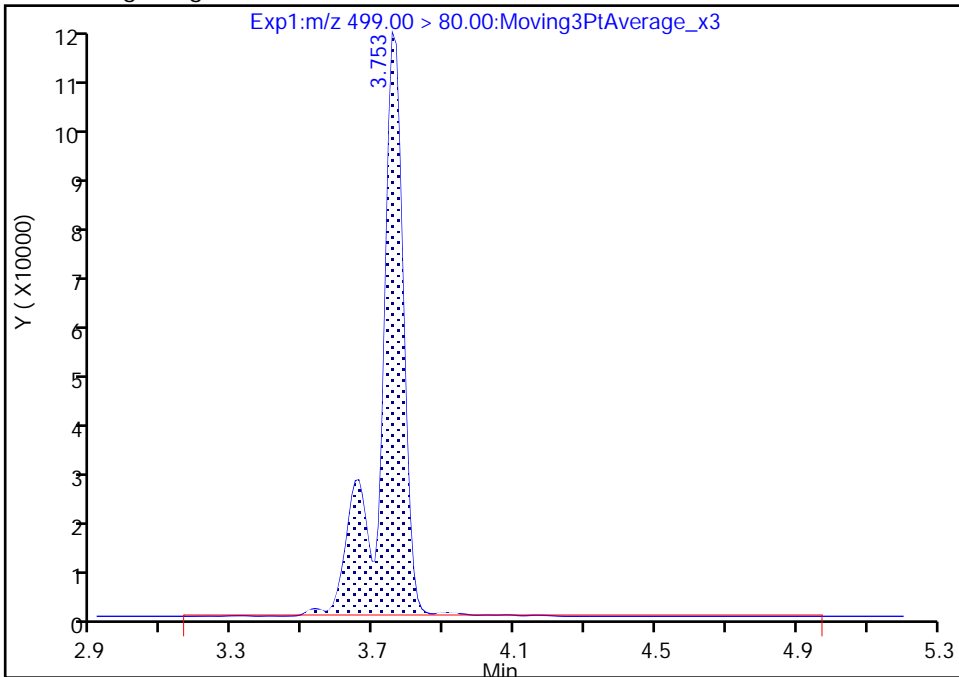
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Injection Date: 26-Jan-2023 20:51:49 Instrument ID: LC812
Lims ID: 460-273105-A-1-B MS
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

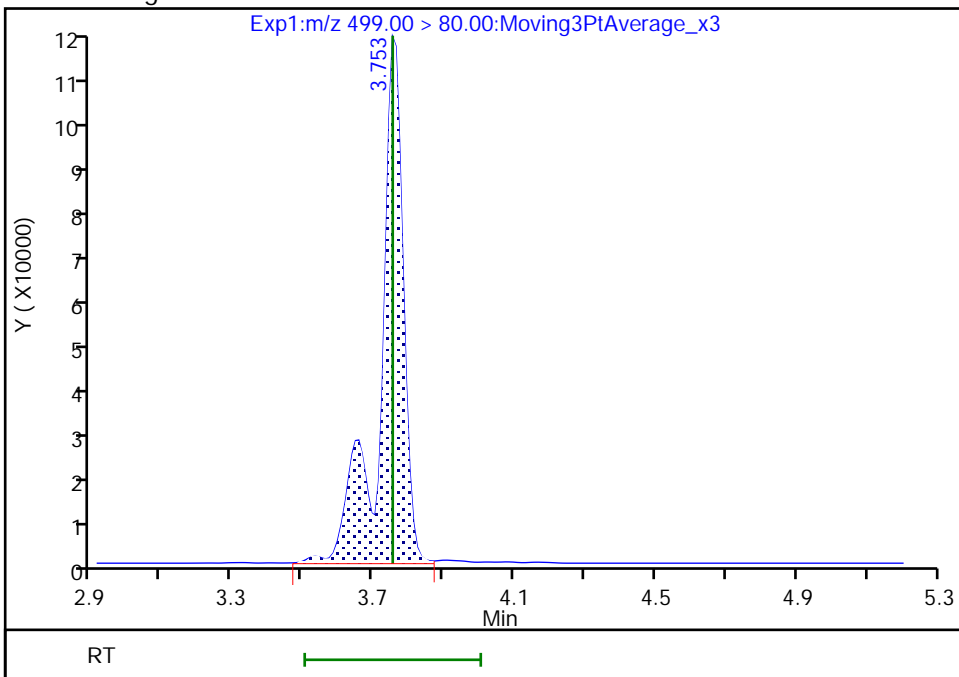
RT: 3.75
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Amount: 0.801540
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 508829
Amount: 0.788421
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:15:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-48_(15-15.5)P MSD Lab Sample ID: 460-273105-1 MSD
 Matrix: Solid Lab File ID: PA230126A10.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.03(g) Date Analyzed: 01/26/2023 20:59
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 15.8 % Solids: 84.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.557		0.59	0.39
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.222		0.24	0.065
307-24-4	Perfluorohexanoic acid (PFHxA)	2.443		0.24	0.054
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.583		0.24	0.046
335-67-1	Perfluorooctanoic acid (PFOA)	2.613		0.24	0.068
375-95-1	Perfluorononanoic acid (PFNA)	2.487		0.24	0.040
335-76-2	Perfluorodecanoic acid (PFDA)	2.318		0.24	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.128		0.24	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	2.147		0.24	0.030
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.317		0.24	0.030
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.184		0.24	0.031
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.196		0.24	0.039
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.175		0.24	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.472		0.24	0.027
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.205		0.24	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.200		0.24	0.022
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.213		0.24	0.040
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.488		2.36	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.479		2.36	0.098
27619-97-2	6:2 FTS	2.200	J	2.36	0.067
39108-34-4	8:2 FTS	2.358	J	2.36	0.044

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1
 SDG No.: _____
 Client Sample ID: BCS-09-48_(15-15.5)P MSD Lab Sample ID: 460-273105-1 MSD
 Matrix: Solid Lab File ID: PA230126A10.d
 Analysis Method: 537 (modified) Date Collected: 01/17/2023 12:15
 Extraction Method: SHAKE Date Extracted: 01/24/2023 15:34
 Sample wt/vol: 5.03(g) Date Analyzed: 01/26/2023 20:59
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)
 % Moisture: 15.8 % Solids: 84.2 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187884 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	67		50-150
STL01892	13C4 PFHpA	79		50-150
STL00990	13C4 PFOA	85		50-150
STL00991	13C4 PFOS	72		50-150
STL00995	13C5 PFNA	83		50-150
STL00992	13C4 PFBA	85		50-150
STL00993	13C2 PFHxA	83		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	96		50-150
STL00998	13C2 PFDoA	88		50-150
STL01056	13C8 FOSA	69		50-150
STL01893	13C5 PFPeA	85		50-150
STL02116	13C2 PFTeDA	92		50-150
STL02118	d3-NMeFOSAA	96		50-150
STL02117	d5-NEtFOSAA	104		50-150
STL02279	M2-6:2 FTS	93		50-150
STL02280	M2-8:2 FTS	89		50-150
STL02337	13C3 PFBS	72		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
 Lims ID: 460-273105-A-1-C MSD
 Client ID: BCS-09-48_(15-15.5)P
 Sample Type: MSD
 Inject. Date: 26-Jan-2023 20:59:59 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-273105-A-1-C MSD
 Misc. Info.: 200-0054135-010 Plate: 1 Rack: 1
 Operator ID: LC812user Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 27-Jan-2023 18:39:34 Calib Date: 11-Jan-2023 18:23:53
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20230111-53969.b\PA230111ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1620

First Level Reviewer: SJ4N Date: 27-Jan-2023 13:18:35

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	217.00 > 172.00	2.085	2.094	-0.009	0.606	1621728	1.06	84.9	15529	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.094	-0.009	1.000	1385255	1.08		108	153	M
D 3 13C5 PFPeA	267.90 > 223.00	2.383	2.370	0.013	0.692	1305559	1.06	84.6	4978	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.383	2.370	0.013	1.000	1126179	0.9415		94.1	32.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.397	2.384	0.013	0.696	1142920	0.8428	72.5	96275	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.397	2.384	0.013	1.000	979989	0.9304	Target=2.10	105	665	
298.90 > 99.00	2.397	2.384	0.013	1.000	494271		1.98(1.05-3.15)		30.1	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.680	2.669	0.011	1.000	274067	0.9889		106	225	
D 60 M2-4:2 FTS	329.00 > 81.00	2.680	2.669	0.011	0.778	109336	1.00	85.4	88.5	M
D 7 13C2 PFHxA	315.00 > 270.00	2.717	2.694	0.023	0.789	1327488	1.03	82.7	9682	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.717	2.706	0.011	1.000	1158295	1.04	Target=13.16	104	219	
313.00 > 119.00	2.717	2.706	0.011	1.000	86857		13.34(6.58-19.74)		91.5	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.730	2.706	0.024	0.886	874063	1.07	Target=2.90	114	543	
349.00 > 99.00	2.730	2.706	0.024	0.886	296079		2.95(1.45-4.35)		211	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.830	2.806	0.024	1.000	163456	1.03		103	4151	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.806	0.024	0.822	199415	0.8968		71.7	1666	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.069	0.011	0.895	779062	0.7895		66.8	6694	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.069	0.011	1.000	666556	0.9217	Target=3.18	101	490	M
399.00 > 99.00	3.080	3.069	0.011	1.000	234051		2.85(1.59-4.77)		36.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.080	3.069	0.011	0.895	1263719	0.9834		78.7	6931	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.091	3.069	0.022	1.004	1178085	1.09	Target=4.10	109	223	
363.00 > 169.00	3.091	3.069	0.022	1.004	294517		4.00(2.05-6.16)		823	
77 DONA										
377.00 > 251.00	3.125	3.104	0.021	0.833	2968867	1.20	Target=2.96	127	2891	
377.00 > 85.00	3.125	3.104	0.021	0.833	918708		3.23(1.48-4.44)		2013	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.434	3.417	0.017	0.997	171963	1.11		93.1	196	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.434	3.417	0.017	1.000	309163	0.9323		98.3	390	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.434	3.417	0.017	0.915	659311	1.05	Target=4.59	110	751	M
449.00 > 99.00	3.434	3.417	0.017	0.915	142337		4.63(2.30-6.89)		95.4	M
D 14 13C4 PFOA										
417.00 > 372.00	3.443	3.426	0.017	1.000	1449578	1.06		85.2	7121	
* 62 13C2 PFOA										
415.00 > 370.00	3.443	3.426	0.017		1661371	1.25			10938	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.443	3.426	0.017	1.000	1397523	1.11	Target=2.71	111	125	M
413.00 > 169.00	3.443	3.426	0.017	1.000	437510		3.19(1.36-4.07)		1567	
D 18 13C4 PFOS										
503.00 > 80.00	3.753	3.754	-0.001	1.090	516881	0.8616		72.1	1037	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.754	0.009	1.003	490866	0.9342	Target=4.23	101	504	M
499.00 > 99.00	3.763	3.754	0.009	1.003	155935		3.15(2.11-6.34)		145	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.773	3.774	-0.001	1.000	1179497	1.05	Target=8.78	105	219	
463.00 > 169.00	3.773	3.774	-0.001	1.000	130686		9.03(4.39-13.17)		441	
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.774	-0.001	1.096	1369905	1.03		82.6	3803	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.045	1370525	1.09		117	6472	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.043	0.009	1.080	389979	0.8936	Target=2.37	93.1	1135	M
549.00 > 99.00	4.052	4.043	0.009	1.080	177621		2.20(1.18-3.55)		290	M
D 23 13C2 PFDA										
515.00 > 470.00	4.073	4.074	-0.001	1.183	1600414	1.18		94.1	6427	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.084	4.074	0.010	1.003	1344515	0.9821	Target=11.13	98.2	280	
513.00 > 169.00	4.084	4.074	0.010	1.003	126113		10.66(5.56-16.69)		659	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.084	4.085	-0.001	1.186	208501	1.07		89.3	375	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.084	4.085	-0.001	1.000	315625	1.00		104	4068	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.144	4.144	0.0	1.000	715378	0.9378		93.8	2284	
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.144	0.0	1.204	948087	0.8573		68.6	3407	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.226	-0.001	1.227	320244	1.20		95.8	1755	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.226	-0.001	1.000	243524	1.05		105	1129	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.322	-0.001	1.151	303320	0.9324	Target=2.45	96.7	926	
599.00 > 99.00	4.321	4.322	-0.001	1.151	133504		2.27(1.23-3.68)		142	
D 30 13C2 PFUnA										
565.00 > 520.00	4.345	4.346	-0.001	1.262	1406673	1.20		95.8	8682	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.345	4.346	-0.001	1.000	1107486	0.9015	Target=10.33	90.1	394	
563.00 > 169.00	4.345	4.346	-0.001	1.000	101714		10.89(5.17-15.50)		839	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.369	4.358	0.011	1.003	261498	1.05		105	1532	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.357	4.358	-0.001	1.266	334915	1.30		104	817	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.451	4.452	-0.001	1.186	1960130	1.01		107	6943	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.583	4.584	-0.001	1.000	959319	0.9095	Target=8.10	91.0	149	
613.00 > 169.00	4.583	4.584	-0.001	1.000	128197		7.48(4.05-12.15)		2774	
D 36 13C2 PFDaA										
615.00 > 570.00	4.583	4.584	-0.001	1.331	1294966	1.10		88.0	8702	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.605	4.606	-0.001	1.128	214174	1.07		111	4491	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.769	4.770	-0.001	1.271	113941	0.8622	Target=0.51	89.1	975	
699.00 > 99.00	4.769	4.770	-0.001	1.271	205693		0.55(0.26-0.77)		1013	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.798	4.799	-0.001	1.047	1034082	0.9816	Target=6.06	98.2	166	
663.00 > 169.00	4.798	4.799	-0.001	1.047	156119		6.62(3.03-9.09)		1770	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.004	4.998	0.006	1.000	107155	0.9254	Target=0.83	92.5	1794	
713.00 > 219.00	4.993	4.998	-0.005	0.998	117754		0.91(0.42-1.25)		2220	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.004	4.998	0.006	1.453	1159305	1.14		91.6	5839	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.360	5.362	-0.002	1.000	940775	1.07	Target=6.74	107	168	
813.00 > 169.00	5.360	5.362	-0.002	1.000	130614		7.20(3.37-10.11)		1415	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.362	-0.002	1.557	1184708	0.9544		76.4	5499	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.711	0.007	1.067	731458	0.9542	Target=6.99	95.4	146	
913.00 > 169.00	5.719	5.711	0.007	1.067	104582		6.99(3.50-10.49)		869	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d

Injection Date: 26-Jan-2023 20:59:59

Instrument ID: LC812

Lims ID: 460-273105-A-1-C MSD

Client ID: BCS-09-48_(15-15.5)P

Operator ID: LC812user

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

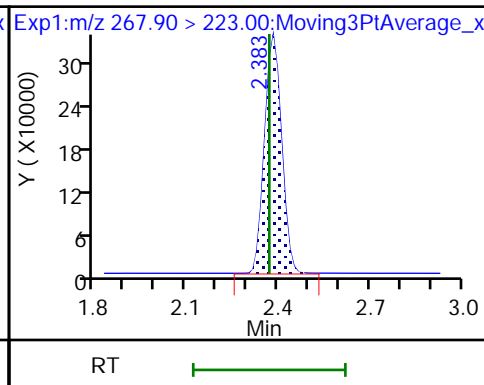
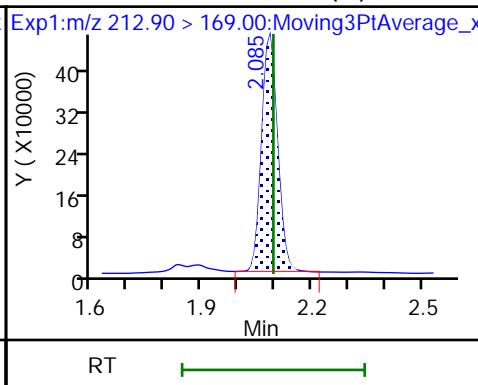
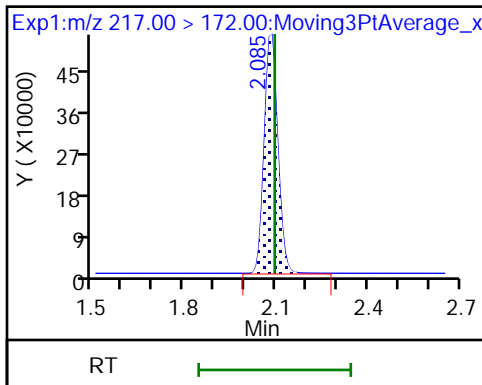
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

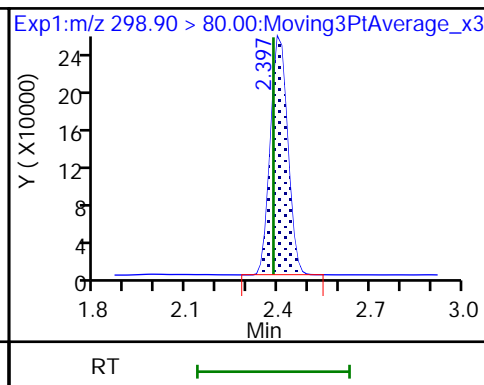
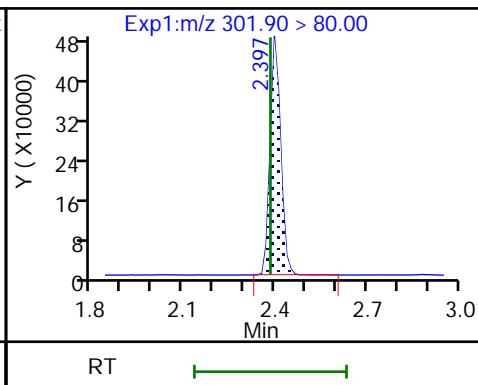
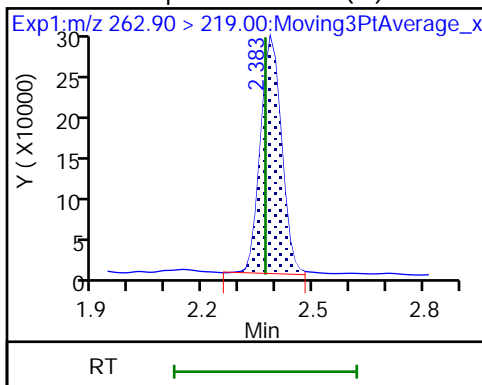
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

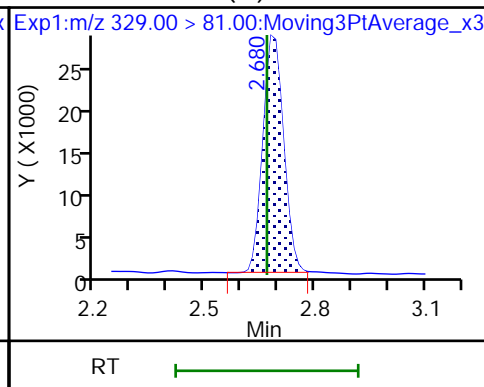
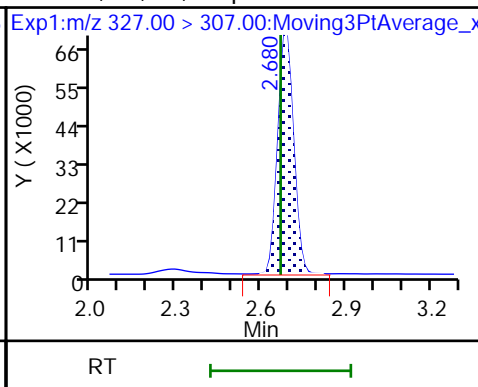
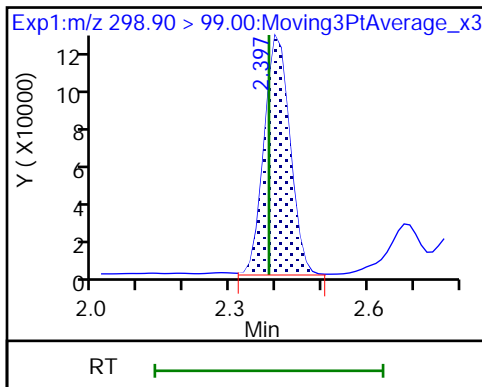
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

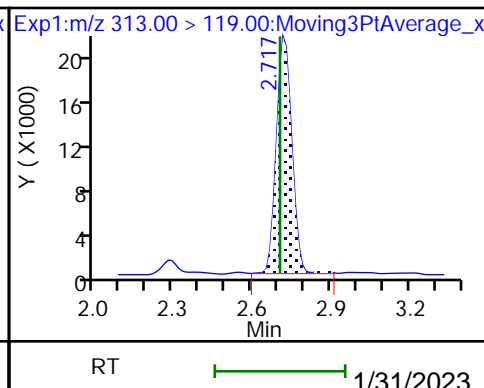
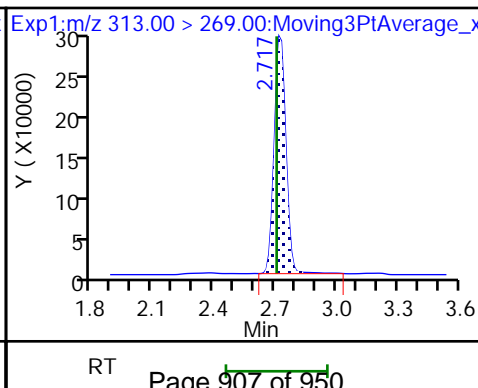
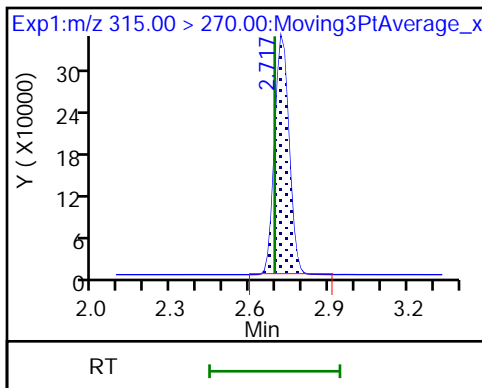
D 60 M2-4:2 FTS (M)

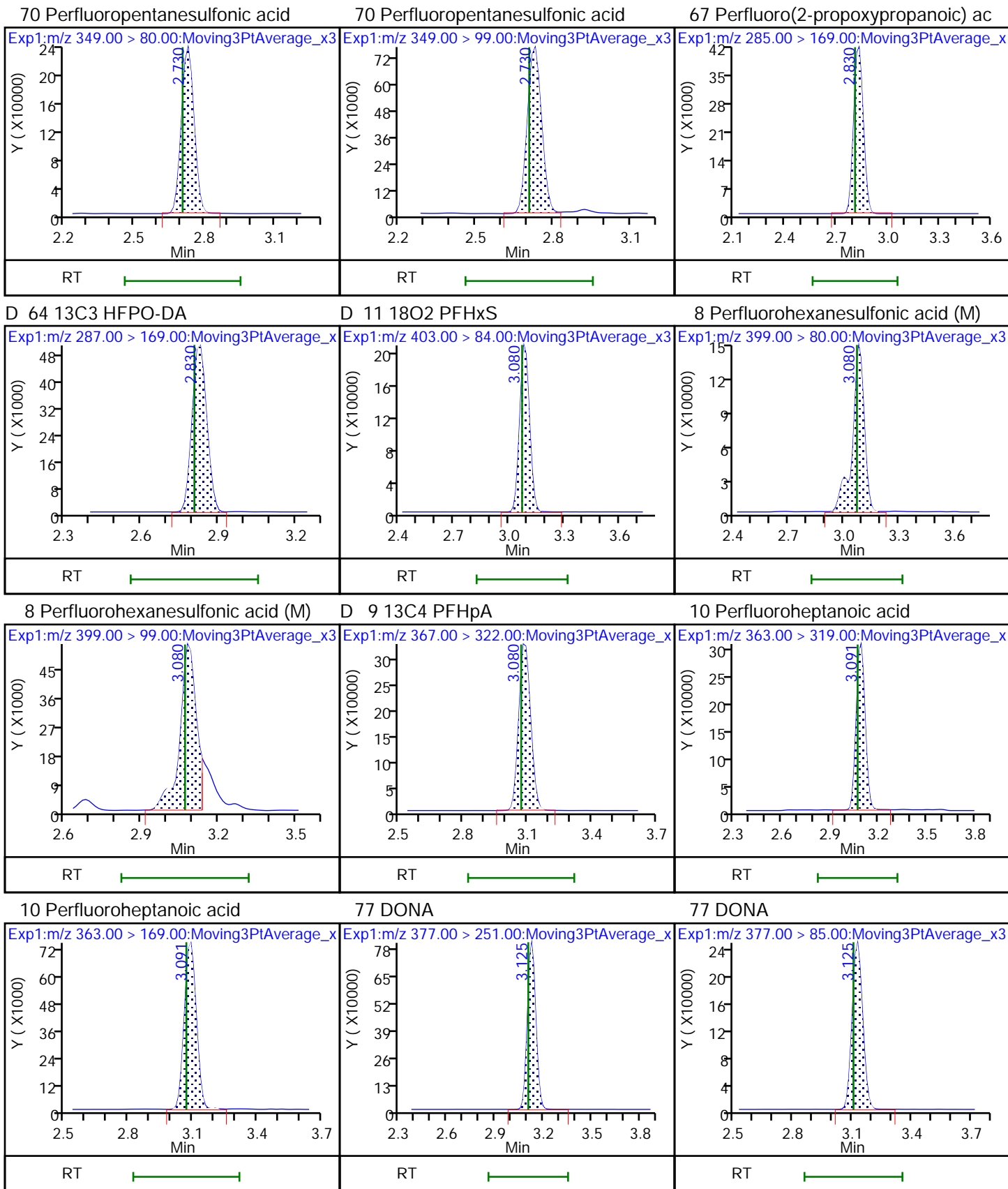


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

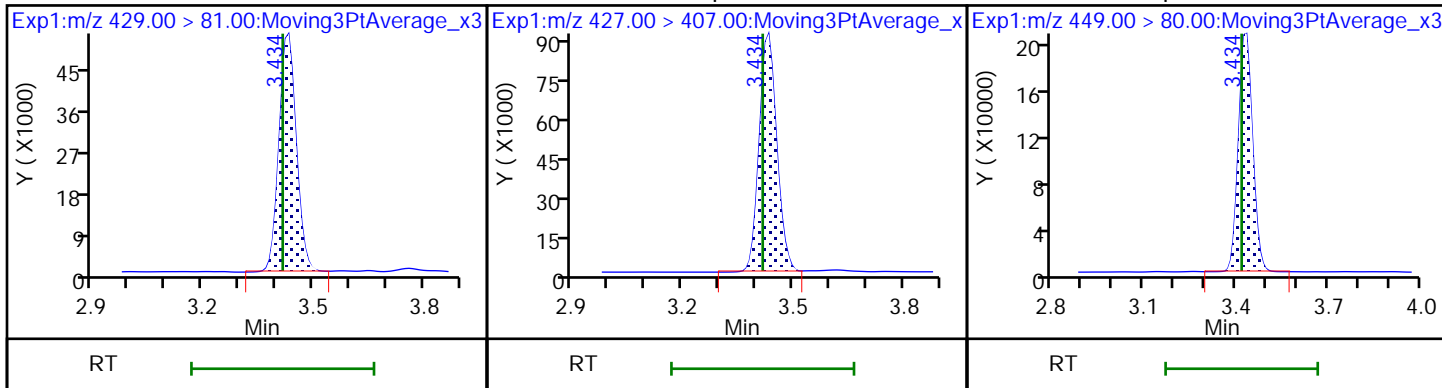




D 12 M2-6:2 FTS

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

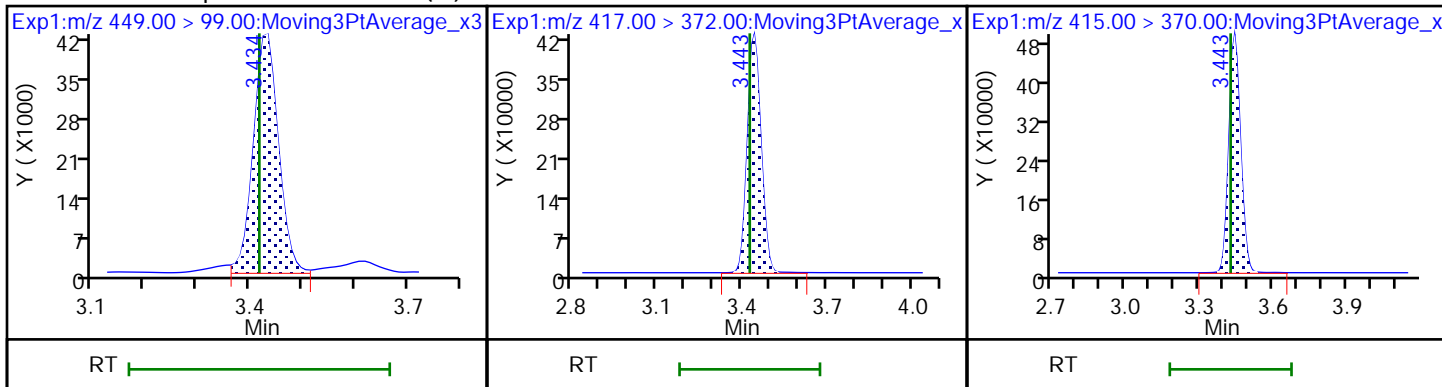
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

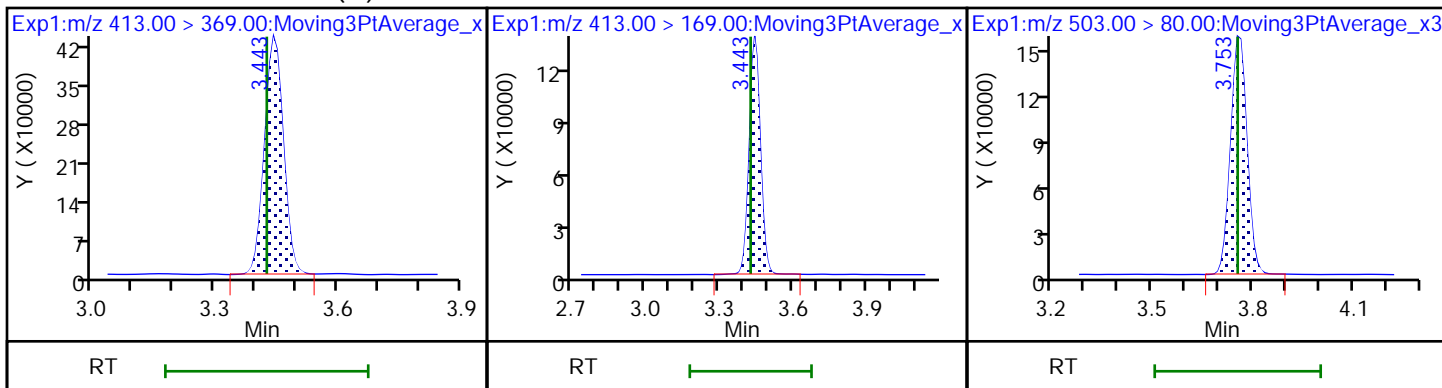
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

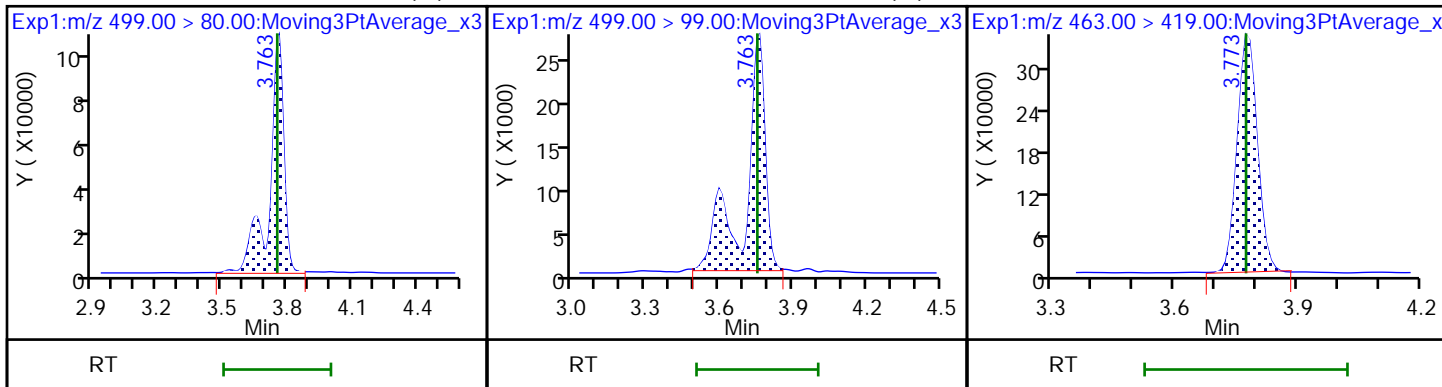
D 18 13C4 PFOS

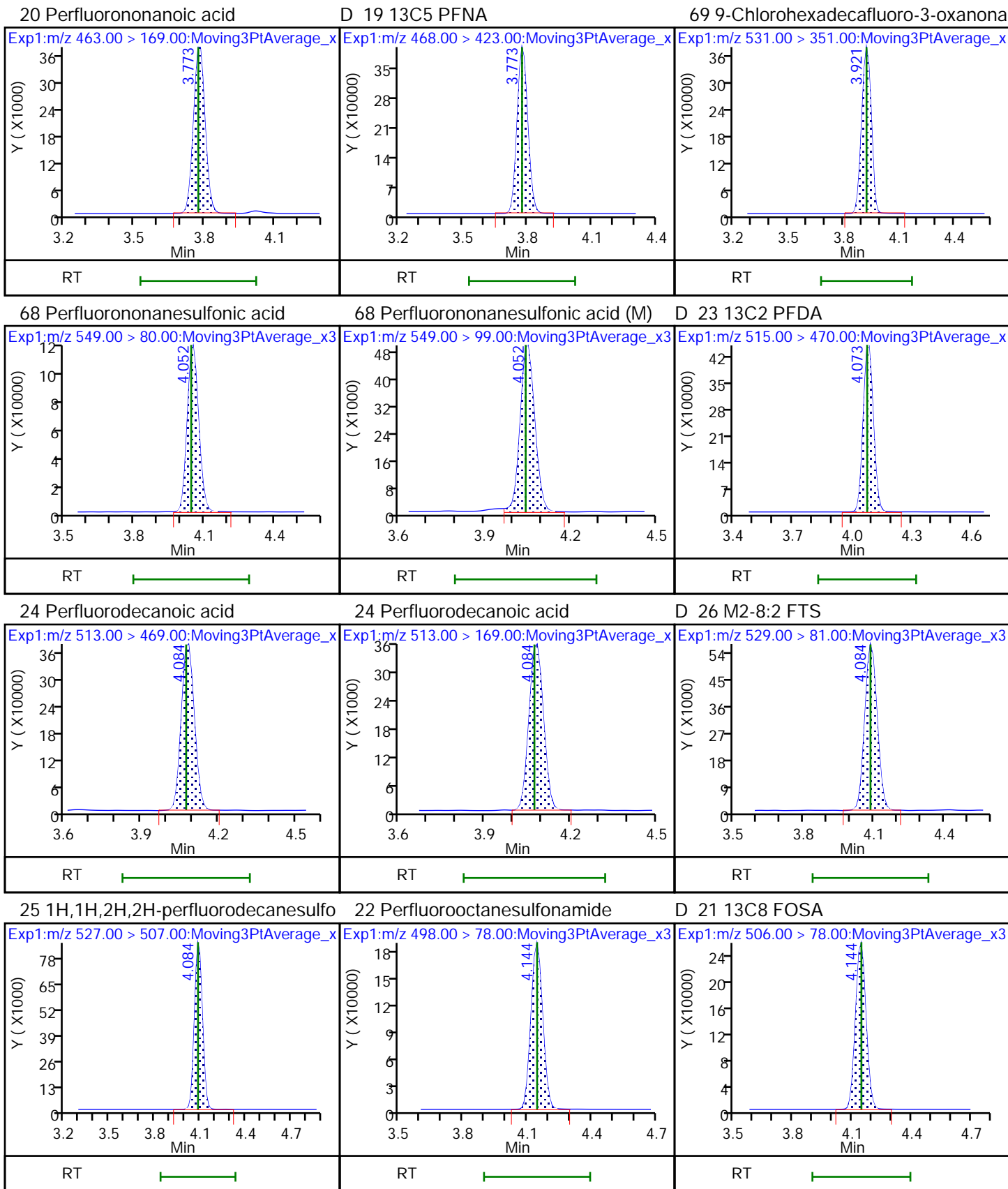


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

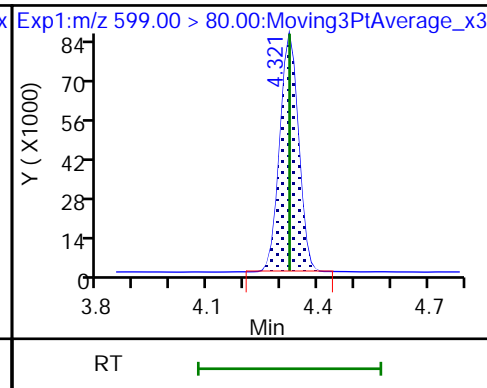
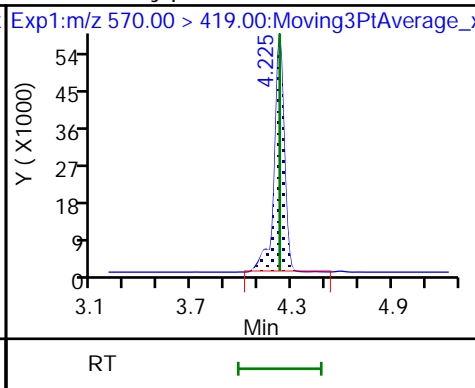
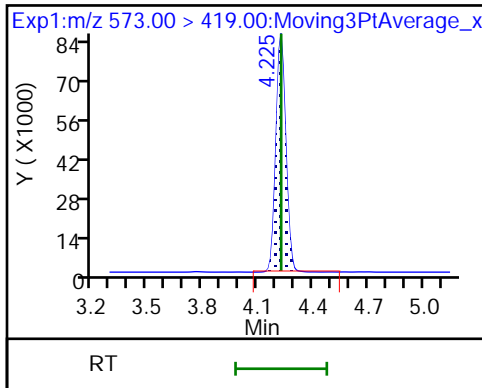




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

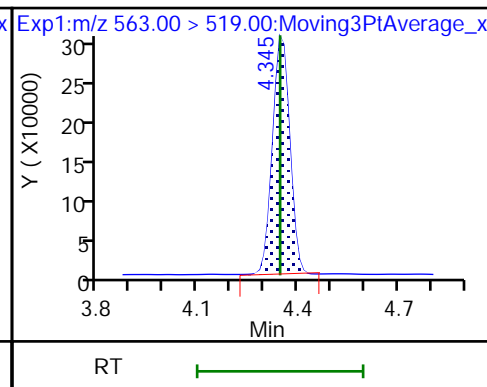
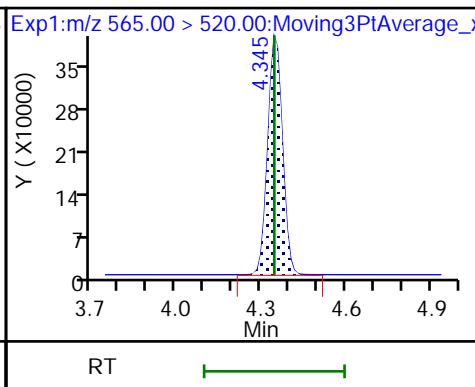
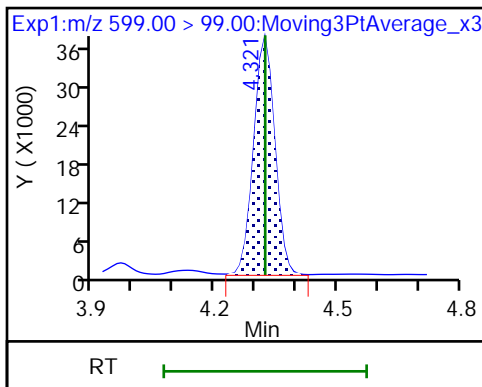
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

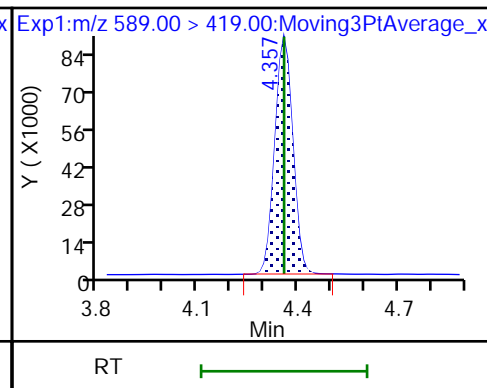
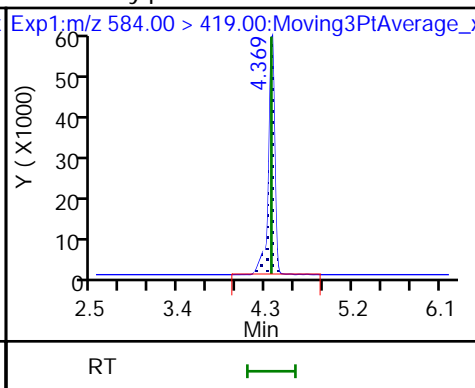
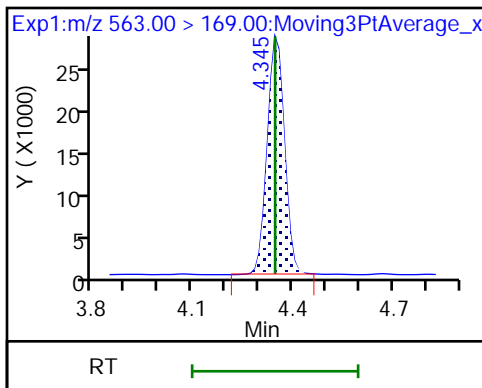
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid

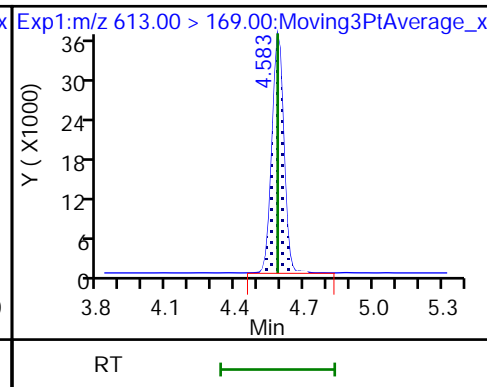
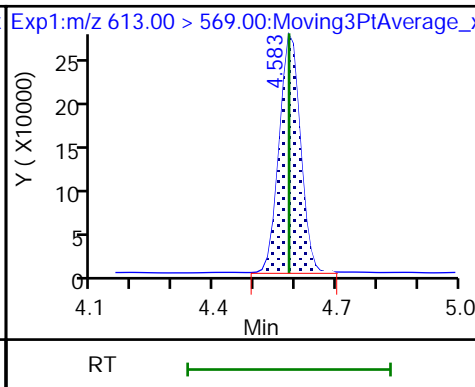
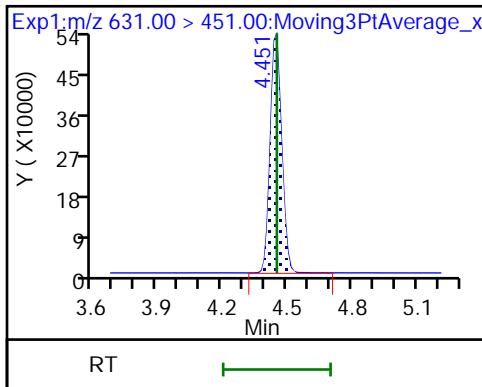
D 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

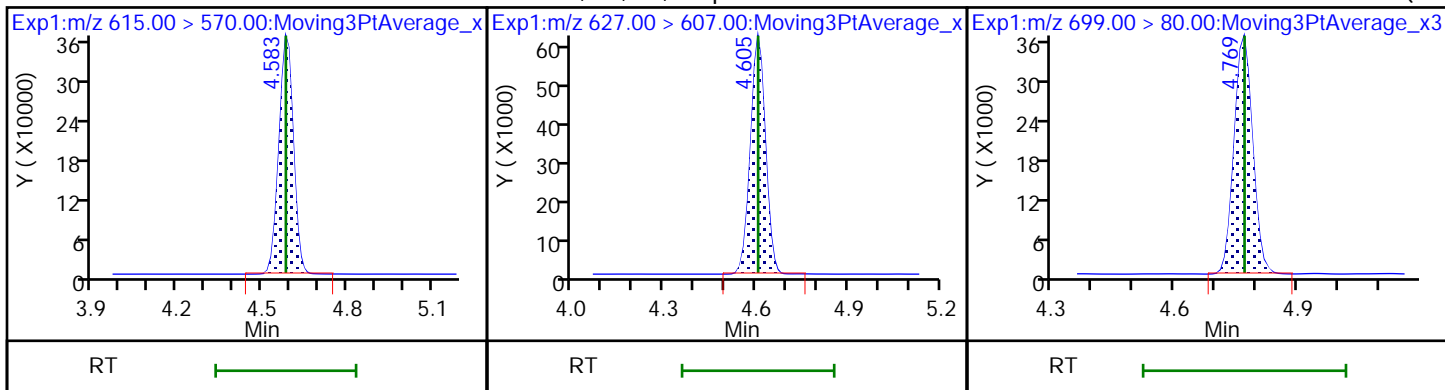
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

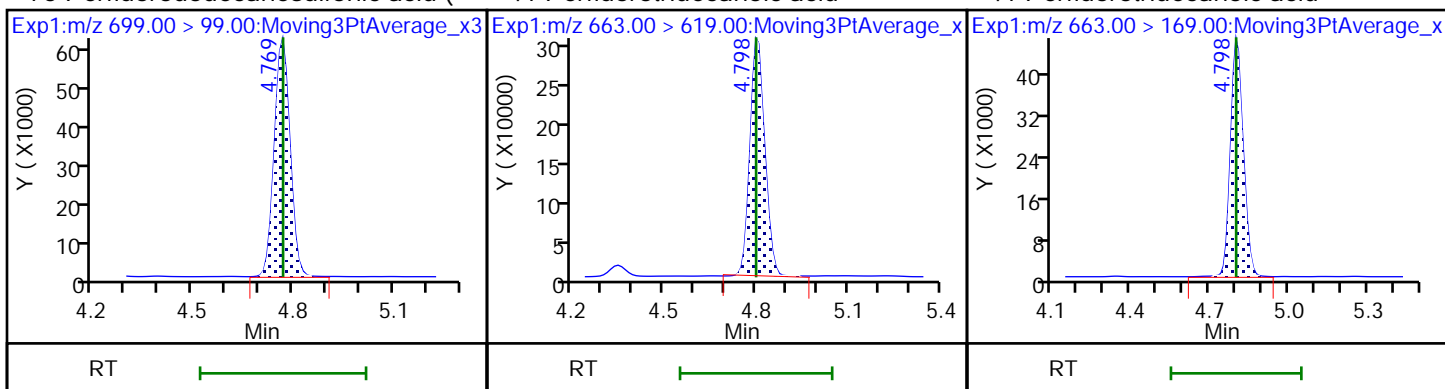
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

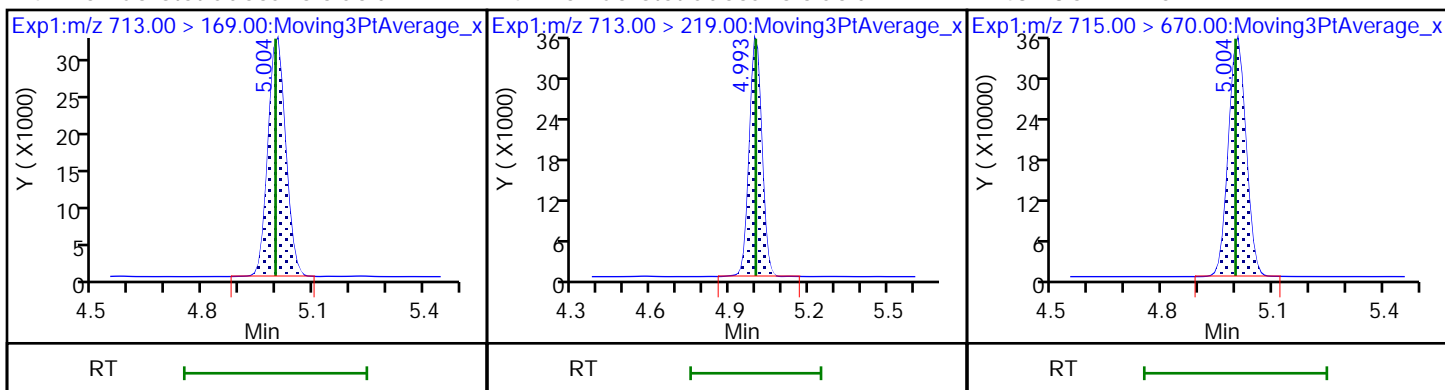
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

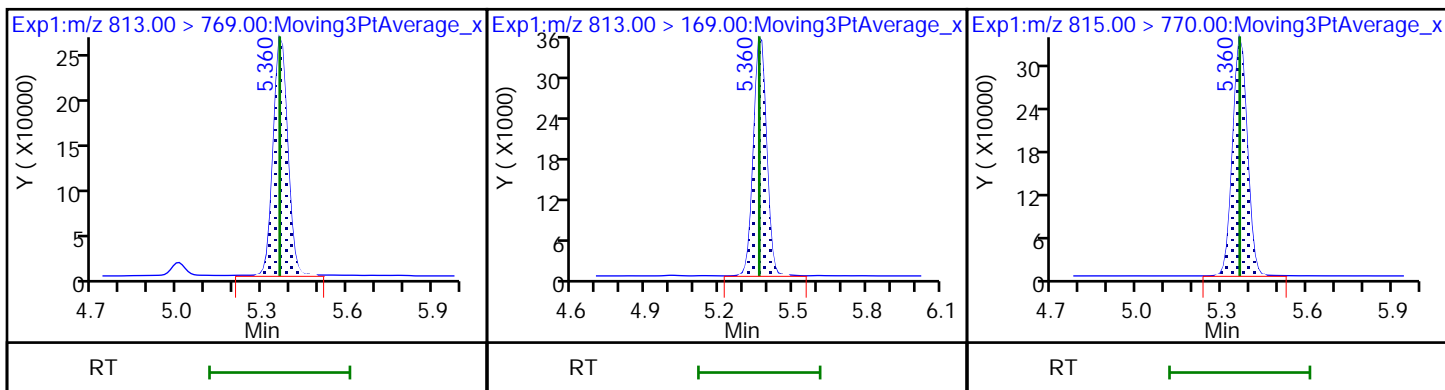
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

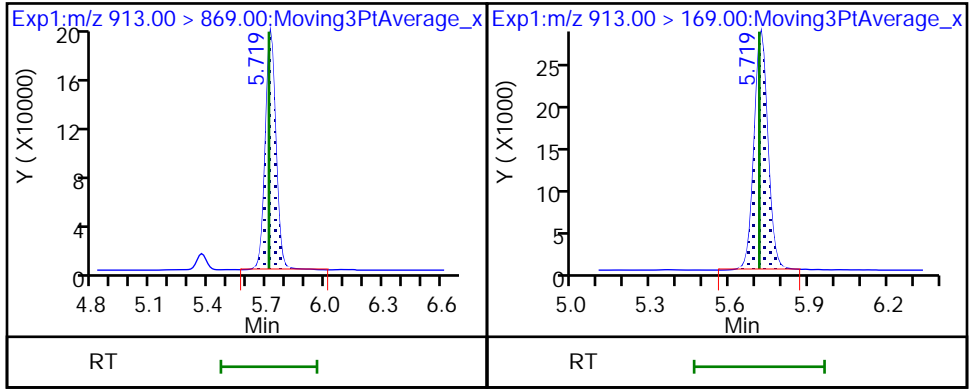
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

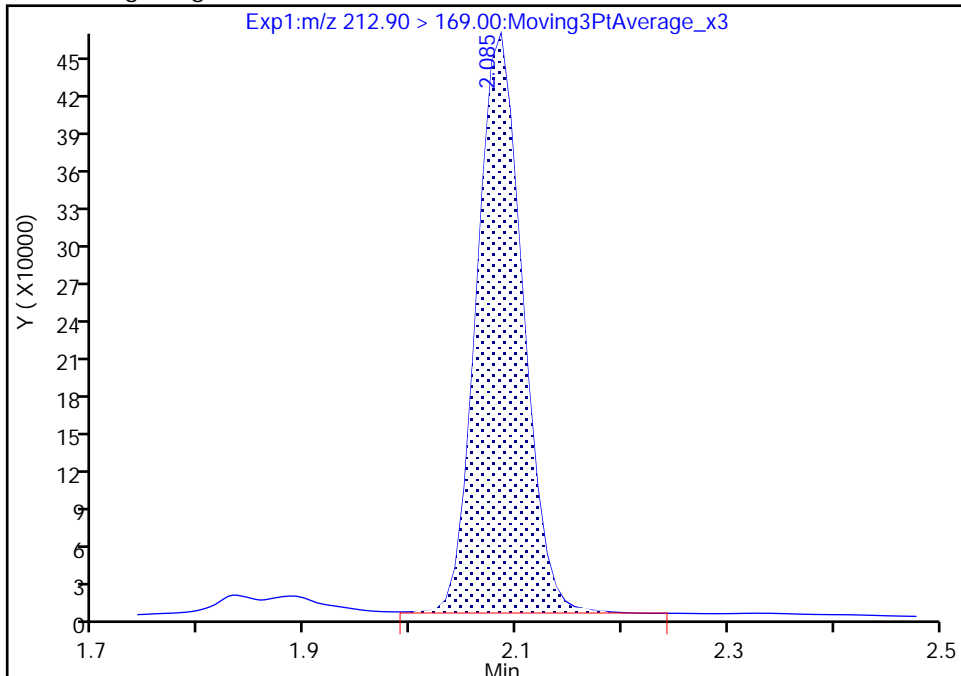
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

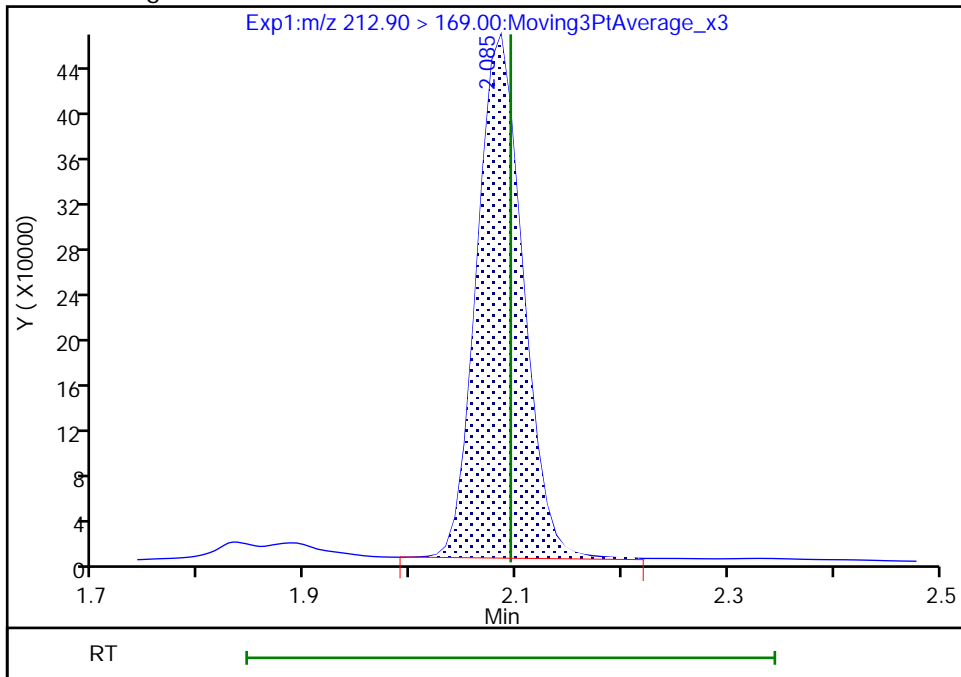
RT: 2.09
Area: 1392395
Amount: 1.089416
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1385255
Amount: 1.083607
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:18:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

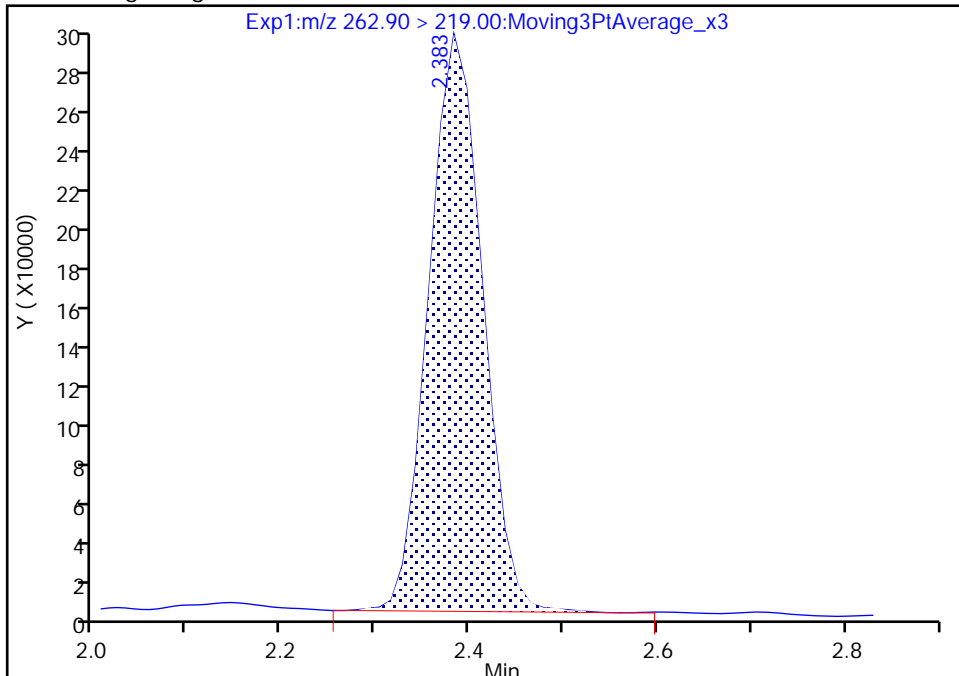
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

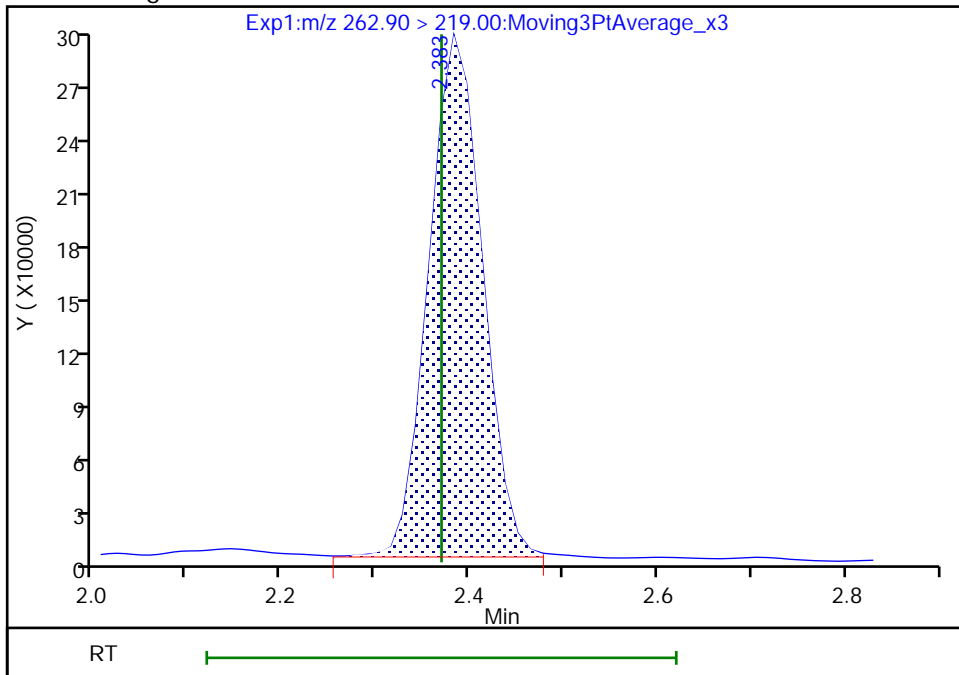
RT: 2.38
Area: 1130913
Amount: 0.945447
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 1126179
Amount: 0.941489
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:18:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

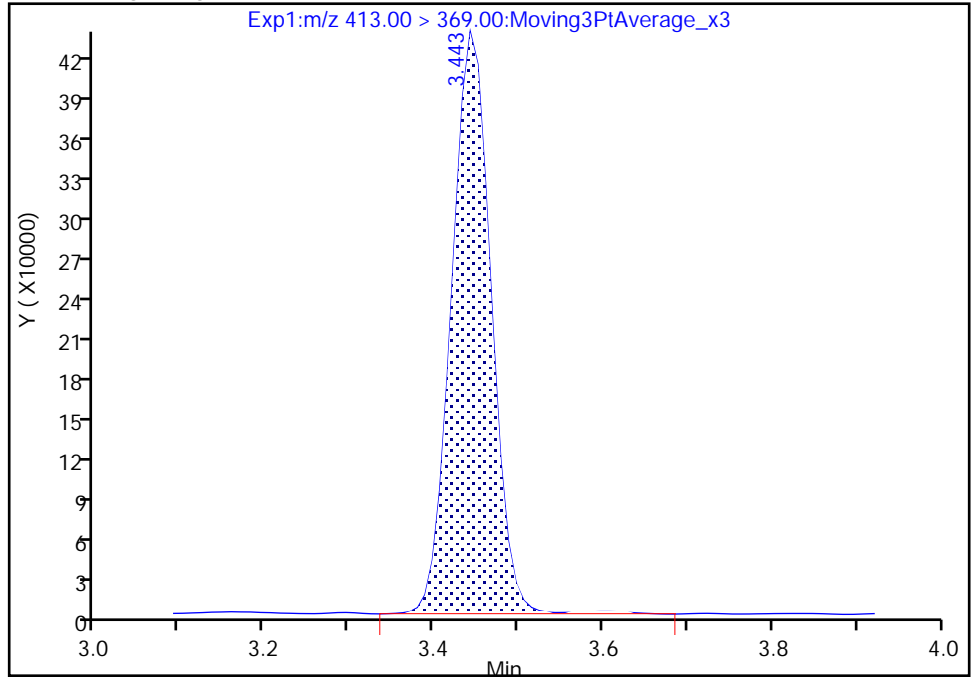
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

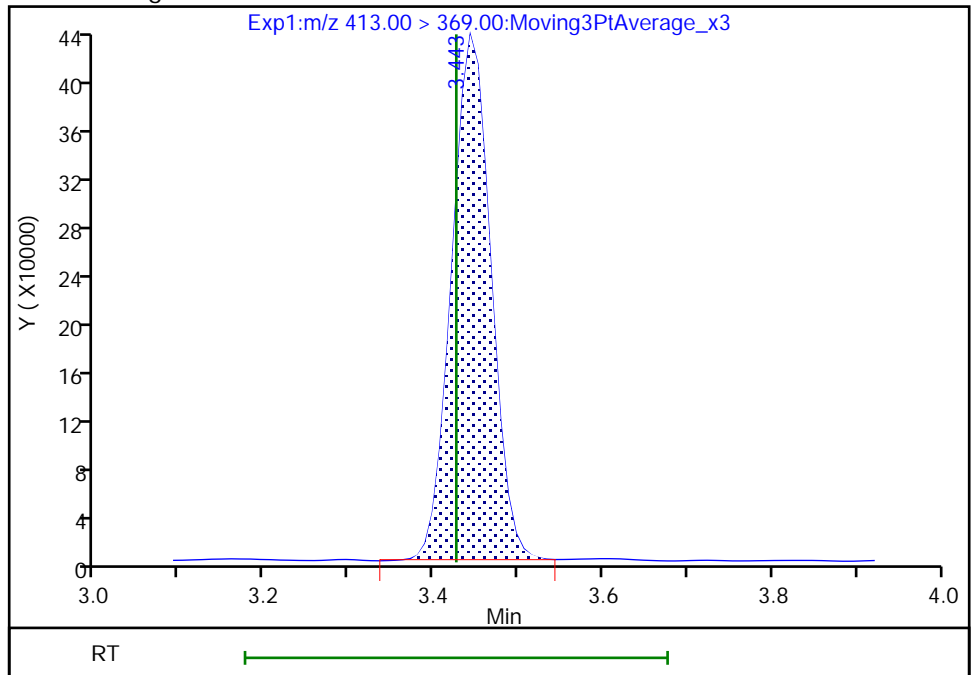
RT: 3.44
Area: 1407000
Amount: 1.114857
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1397523
Amount: 1.107348
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:17:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

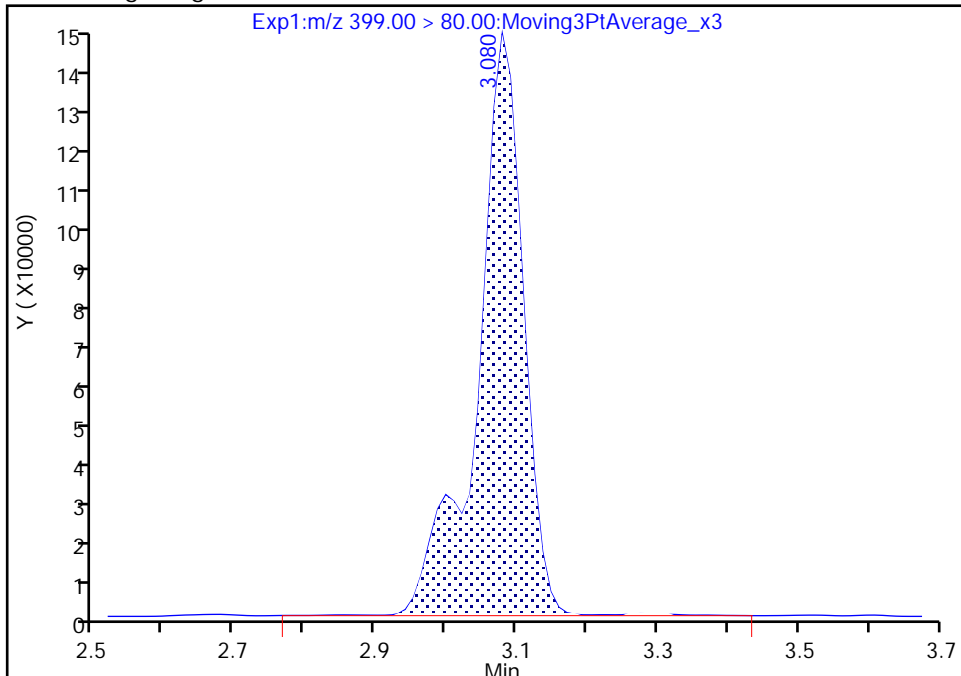
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

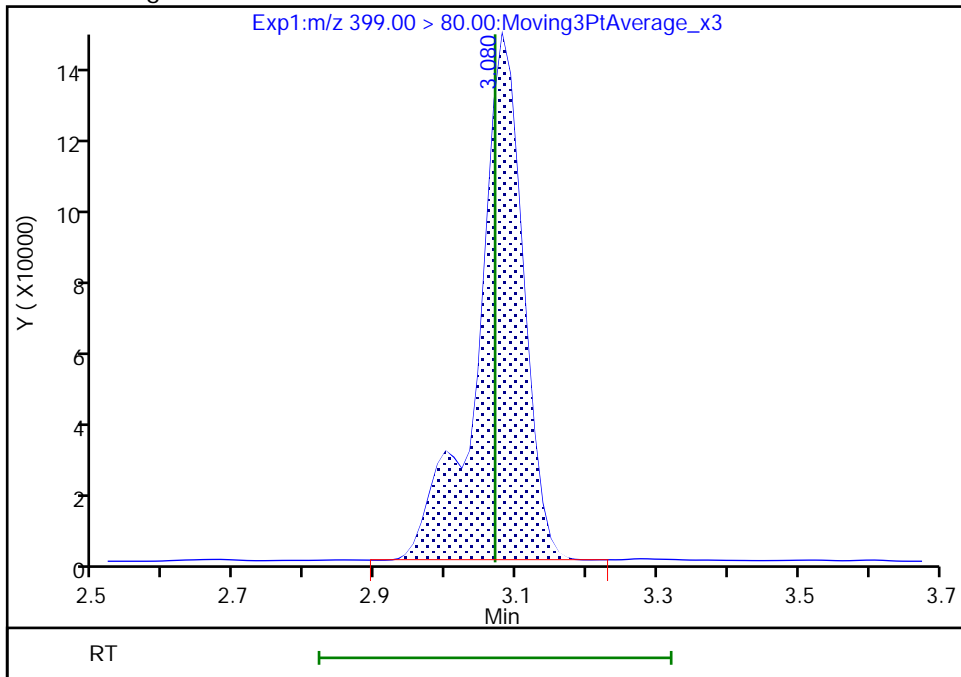
RT: 3.08
Area: 672975
Amount: 0.930587
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 666556
Amount: 0.921711
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:17:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

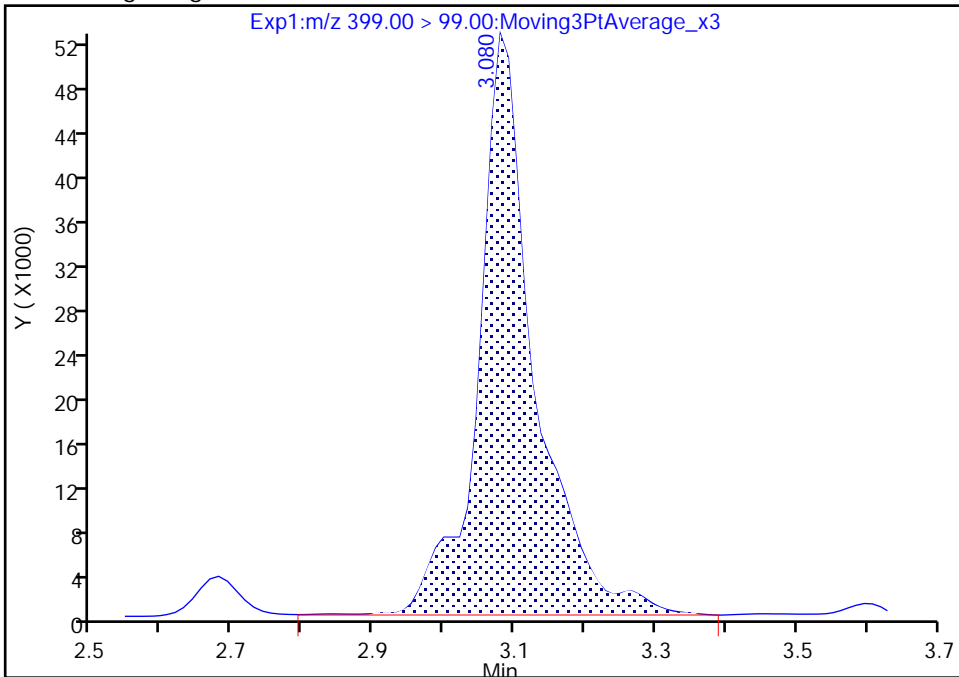
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

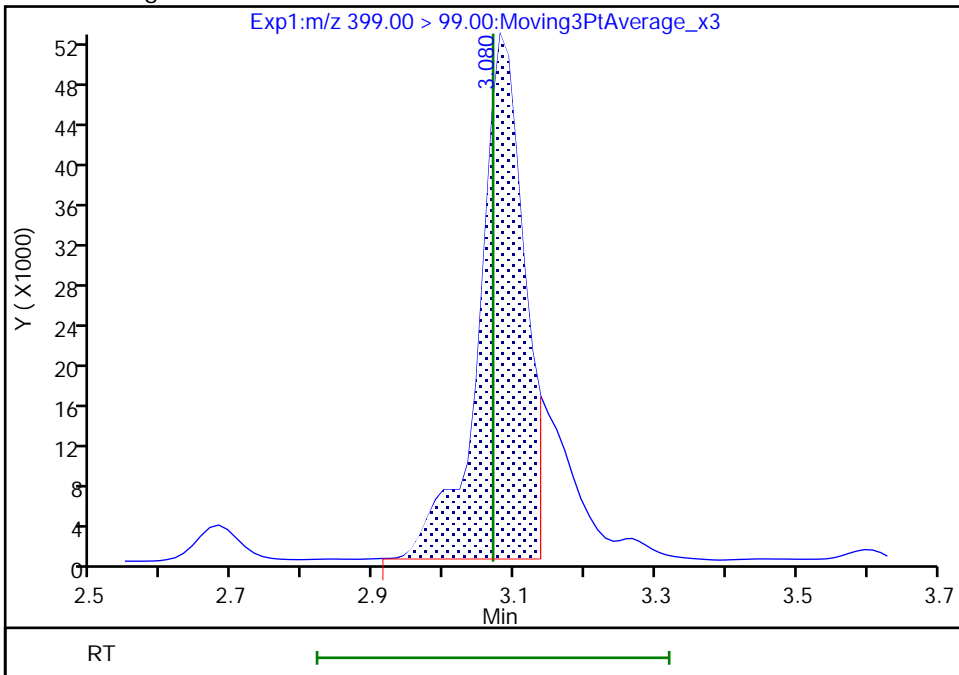
RT: 3.08
Area: 298234
Amount: 0.930587
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 234051
Amount: 0.921711
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:17:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

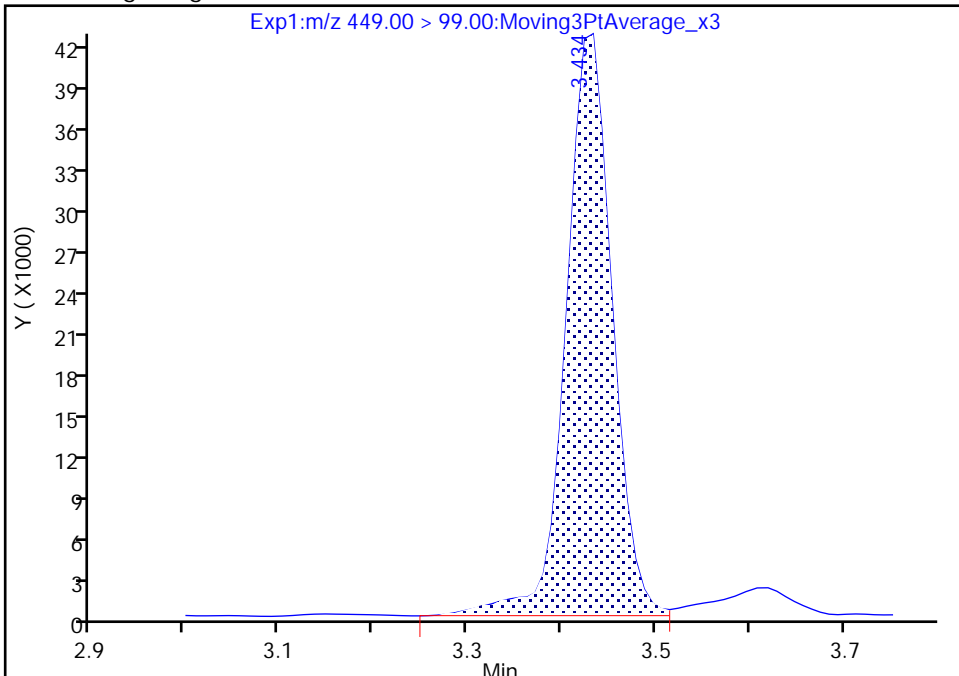
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

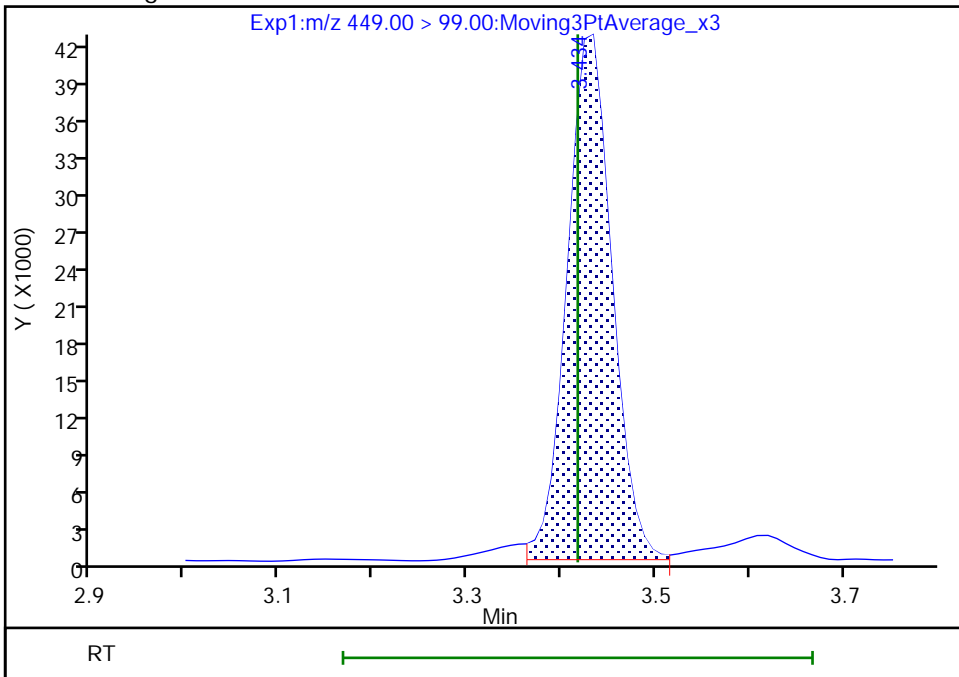
RT: 3.43
Area: 146585
Amount: 1.047542
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 142337
Amount: 1.047542
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:17:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

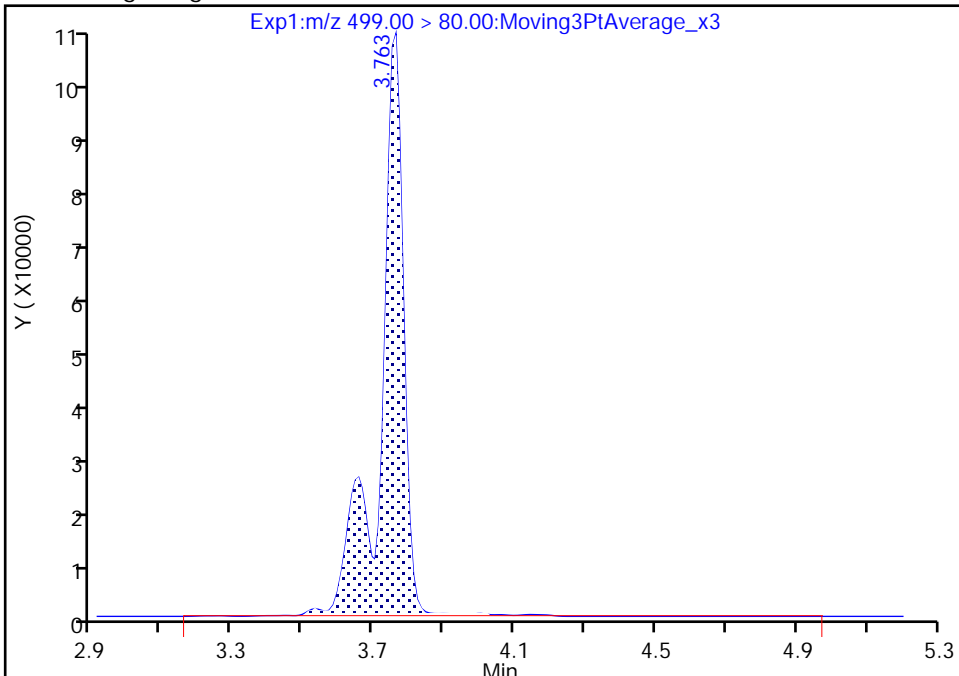
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

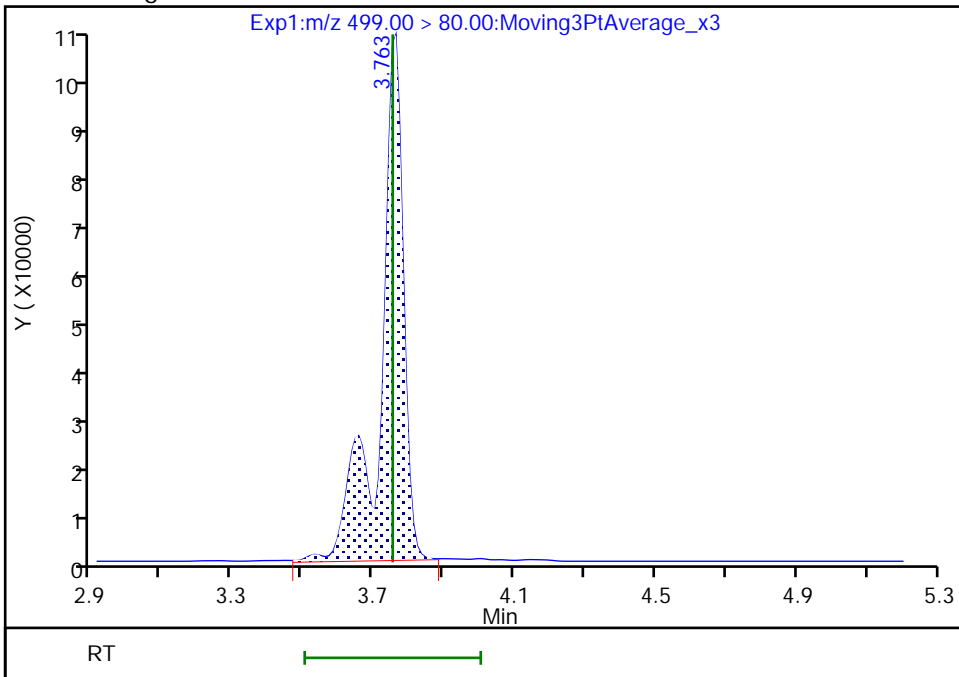
RT: 3.76
Area: 501859
Amount: 0.955096
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 490866
Amount: 0.934175
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:16:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

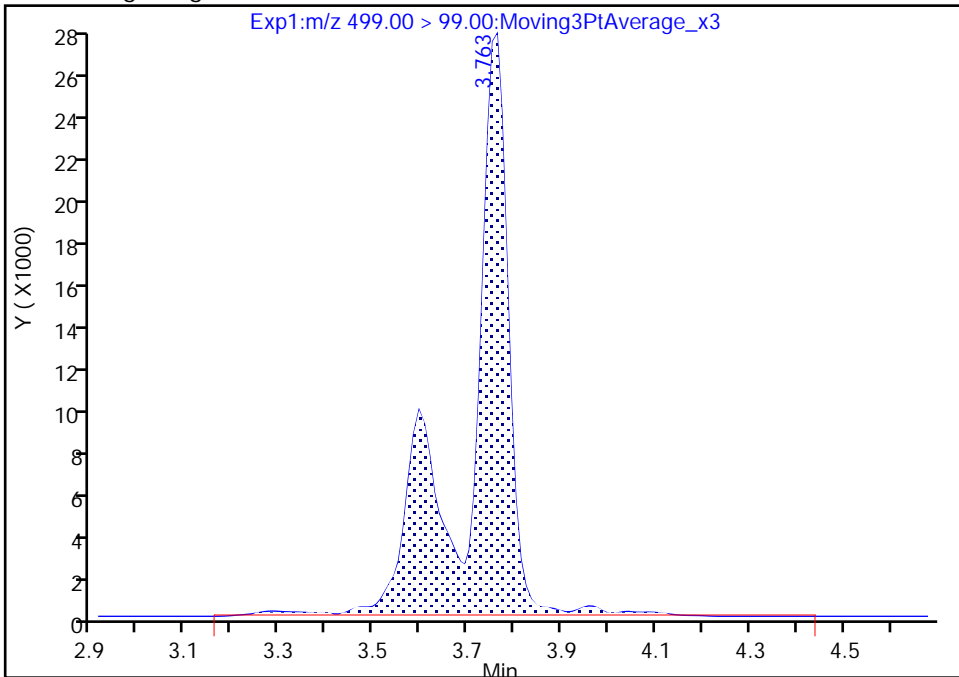
Data File: \\chromfs\Burlington\ChromData\LC812\20230126-54135.b\PA230126A10.d
Injection Date: 26-Jan-2023 20:59:59 Instrument ID: LC812
Lims ID: 460-273105-A-1-C MSD
Client ID: BCS-09-48_(15-15.5)P
Operator ID: LC812user ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

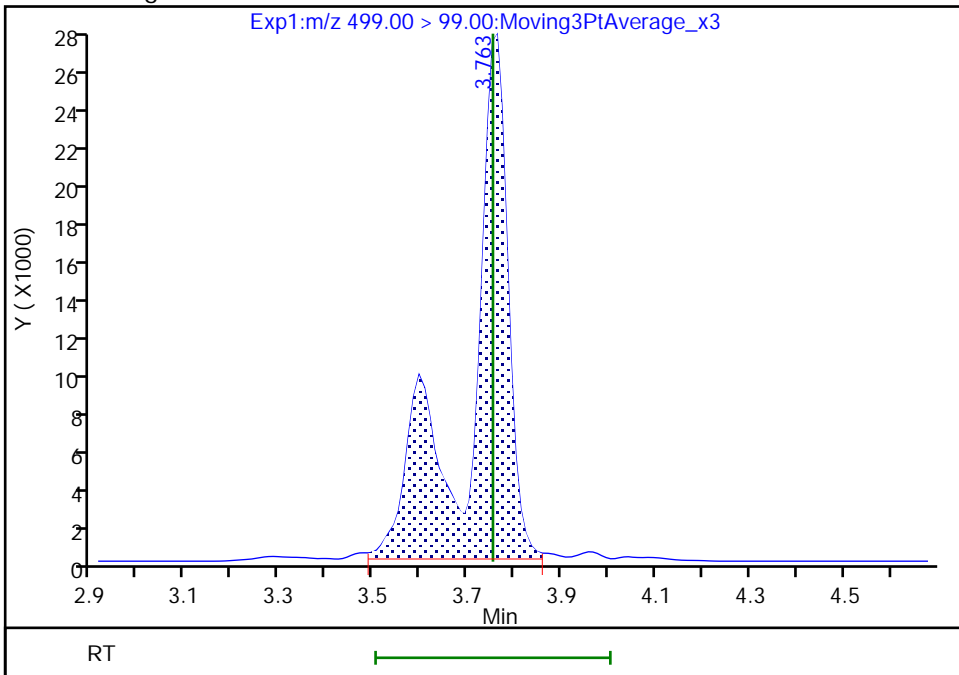
RT: 3.76
Area: 166450
Amount: 0.955096
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 155935
Amount: 0.934175
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 27-Jan-2023 13:16:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Instrument ID: LC812 Start Date: 01/11/2023 17:10

Analysis Batch Number: 187441 End Date: 01/11/2023 18:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/11/2023 17:10	1		C-18 4.6 (mm)
ZZZZZ		01/11/2023 17:18	1		C-18 4.6 (mm)
ZZZZZ		01/11/2023 17:26	1		C-18 4.6 (mm)
ZZZZZ		01/11/2023 17:34	1		C-18 4.6 (mm)
IC 200-187441/5		01/11/2023 17:43	1	PA230111ICAL05.d	C-18 4.6 (mm)
IC 200-187441/6		01/11/2023 17:51	1	PA230111ICAL06.d	C-18 4.6 (mm)
IC 200-187441/7		01/11/2023 17:59	1	PA230111ICAL07.d	C-18 4.6 (mm)
ICISAV 200-187441/8		01/11/2023 18:07	1	PA230111ICAL08.d	C-18 4.6 (mm)
IC 200-187441/9		01/11/2023 18:15	1	PA230111ICAL09.d	C-18 4.6 (mm)
IC 200-187441/10		01/11/2023 18:23	1	PA230111ICAL10.d	C-18 4.6 (mm)
ICB 200-187441/11		01/11/2023 18:32	1	PA230111ICAL11.d	C-18 4.6 (mm)
ICV 200-187441/12		01/11/2023 18:40	1	PA230111ICAL12.d	C-18 4.6 (mm)
ZZZZZ		01/11/2023 18:48	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Instrument ID: LC812 Start Date: 01/23/2023 17:30

Analysis Batch Number: 187747 End Date: 01/23/2023 19:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/23/2023 17:30	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 17:38	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 17:46	1		C-18 4.6 (mm)
CCB 200-187747/4		01/23/2023 17:54	1	PA230123A04.d	C-18 4.6 (mm)
CCVLIS 200-187747/5		01/23/2023 18:02	1	PA230123A05.d	C-18 4.6 (mm)
ZZZZZ		01/23/2023 18:10	10		C-18 4.6 (mm)
ZZZZZ		01/23/2023 18:18	10		C-18 4.6 (mm)
ZZZZZ		01/23/2023 18:27	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 18:35	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 18:43	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 18:51	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 18:59	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 19:07	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 19:16	1		C-18 4.6 (mm)
CCV 200-187747/15		01/23/2023 19:24	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Instrument ID: LC812 Start Date: 01/23/2023 19:32

Analysis Batch Number: 187759 End Date: 01/23/2023 23:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-187759/1		01/23/2023 19:32	1	PA230123B01.d	C-18 4.6 (mm)
MB 200-187735/1-A		01/23/2023 19:40	1	PA230123B02.d	C-18 4.6 (mm)
LCS 200-187735/2-A		01/23/2023 19:48	1	PA230123B03.d	C-18 4.6 (mm)
LCSD 200-187735/3-A		01/23/2023 19:56	1	PA230123B04.d	C-18 4.6 (mm)
ZZZZZ		01/23/2023 20:05	50		C-18 4.6 (mm)
ZZZZZ		01/23/2023 20:13	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 20:21	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 20:29	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 20:37	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 20:45	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 20:54	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 21:02	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 21:10	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 21:18	1		C-18 4.6 (mm)
CCV 200-187759/15		01/23/2023 21:26	1	PA230123B15.d	C-18 4.6 (mm)
ZZZZZ		01/23/2023 21:34	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 21:43	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 21:51	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 21:59	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 22:07	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 22:15	1		C-18 4.6 (mm)
460-273105-5	FB-01172023P	01/23/2023 22:23	1	PA230123B22.d	C-18 4.6 (mm)
ZZZZZ		01/23/2023 22:32	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 22:40	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 22:48	1		C-18 4.6 (mm)
CCV 200-187759/26		01/23/2023 22:56	1	PA230123B26.d	C-18 4.6 (mm)
ZZZZZ		01/23/2023 23:04	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 23:12	1		C-18 4.6 (mm)
ZZZZZ		01/23/2023 23:21	1		C-18 4.6 (mm)
CCV 200-187759/30		01/23/2023 23:29	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Instrument ID: LC812 Start Date: 01/26/2023 19:46

Analysis Batch Number: 187884 End Date: 01/26/2023 23:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/26/2023 19:46	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 19:54	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 20:02	1		C-18 4.6 (mm)
CCB 200-187884/4		01/26/2023 20:11	1	PA230126A04.d	C-18 4.6 (mm)
CCVLIS 200-187884/5		01/26/2023 20:19	1	PA230126A05.d	C-18 4.6 (mm)
MB 200-187806/1-A		01/26/2023 20:27	1	PA230126A06.d	C-18 4.6 (mm)
LCS 200-187806/2-A		01/26/2023 20:35	1	PA230126A07.d	C-18 4.6 (mm)
460-273105-1	BCS-09-48_(15-15.5)P	01/26/2023 20:43	1	PA230126A08.d	C-18 4.6 (mm)
460-273105-1 MS	BCS-09-48_(15-15.5)P MS	01/26/2023 20:51	1	PA230126A09.d	C-18 4.6 (mm)
460-273105-1 MSD	BCS-09-48_(15-15.5)P MSD	01/26/2023 20:59	1	PA230126A10.d	C-18 4.6 (mm)
460-273105-2	BCS-09-49_(15-15.5)P	01/26/2023 21:08	1	PA230126A11.d	C-18 4.6 (mm)
460-273105-3	BCS-09-50_(15-15.5)P	01/26/2023 21:16	1	PA230126A12.d	C-18 4.6 (mm)
460-273105-4	BCS-09-51_(15-15.5)P	01/26/2023 21:24	1	PA230126A13.d	C-18 4.6 (mm)
460-273105-6	DUP_09_011723P	01/26/2023 21:32	1	PA230126A14.d	C-18 4.6 (mm)
ZZZZZ		01/26/2023 21:40	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 21:48	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 21:57	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 22:05	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 22:13	1		C-18 4.6 (mm)
CCV 200-187884/20		01/26/2023 22:21	1	PA230126A20.d	C-18 4.6 (mm)
ZZZZZ		01/26/2023 22:29	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 22:37	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 22:46	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 22:54	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:02	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:10	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:18	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:26	1		C-18 4.6 (mm)
ZZZZZ		01/26/2023 23:34	1		C-18 4.6 (mm)
CCV 200-187884/30		01/26/2023 23:43	1		C-18 4.6 (mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Batch Number: 187441 Batch Start Date: 01/11/23 17:10 Batch Analyst: Chirgwin, Bradley W

Batch Method: 537 (modified) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	LCPFAS28NCICV 00012	PFAS32NCBLK20 00023	PFAS32NCIC1 00014	PFAS32NCIC2 00013	PFAS32NCIC3 00015
IC 200-187441/5		537 (modified)		1 mL			100 uL		
IC 200-187441/6		537 (modified)		1 mL				100 uL	
IC 200-187441/7		537 (modified)		1 mL					100 uL
ICISAV 200-187441/8		537 (modified)		1 mL					
IC 200-187441/9		537 (modified)		1 mL					
IC 200-187441/10		537 (modified)		1 mL					
ICB 200-187441/11		537 (modified)		1 mL		100 uL			
ICV 200-187441/12		537 (modified)		1 mL	100 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS32NCIC4 00036	PFAS32NCIC5 00030	PFAS32NCIC6 00013			
IC 200-187441/5		537 (modified)							
IC 200-187441/6		537 (modified)							
IC 200-187441/7		537 (modified)							
ICISAV 200-187441/8		537 (modified)		100 uL					
IC 200-187441/9		537 (modified)			100 uL				
IC 200-187441/10		537 (modified)				100 uL			
ICB 200-187441/11		537 (modified)							
ICV 200-187441/12		537 (modified)							

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Batch Number: 187441 Batch Start Date: 01/11/23 17:10 Batch Analyst: Chirgwin, Bradley W

Batch Method: 537 (modified) Batch End Date: _____

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Batch Number: 187735 Batch Start Date: 01/23/23 10:17 Batch Analyst: Wisniewski, Kurtis F

Batch Method: 3535 Batch End Date: 01/23/23 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCPFC32MTXStk 00050	LCPFIDA21_spk 00010
MB 200-187735/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL		100 uL
LCS 200-187735/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
LCS 200-187735/3		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
460-273105-A-5	FB-01172023P	3535, 537 (modified)	T	330.37 g	27.14 g	303.2 mL	10 mL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00050					
MB 200-187735/1		3535, 537 (modified)		100 uL					
LCS 200-187735/2		3535, 537 (modified)		100 uL					
LCS 200-187735/3		3535, 537 (modified)		100 uL					
460-273105-A-5	FB-01172023P	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
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:C MTX: B IS:C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Batch Number: 187735 Batch Start Date: 01/23/23 10:17 Batch Analyst: Wisniewski, Kurtis F

Batch Method: 3535 Batch End Date: 01/23/23 15:30

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.: 460-273105-1

SDG No.: _____

Batch Number: 187747 Batch Start Date: 01/23/23 17:30 Batch Analyst: Chirgwin, Bradley W

Batch Method: 537 (modified) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	PFAS32NCBLK20 00023	PFAS32NCLOQV 00024			
CCB 200-187747/4		537 (modified)		1 mL	100 uL				
CCVLIS 200-187747/5		537 (modified)		1 mL		100 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Batch Number: 187806 Batch Start Date: 01/24/23 15:34 Batch Analyst: Kane, Elizabeth

Batch Method: SHAKE Batch End Date: 01/26/23 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCPFC32MTXStk 00049	LCPFIDA21_spk 00010	PFAS21 IS Stk 00049	
MB 200-187806/1		SHAKE, 537 (modified)		5.00 g	10 mL		100 uL	100 uL	
LCS 200-187806/2		SHAKE, 537 (modified)		5.00 g	10 mL	25 uL	100 uL	100 uL	
460-273105-A-1	BCS-09-48_(15-15 .5)P	SHAKE, 537 (modified)	T	5.04 g	10 mL		100 uL	100 uL	
460-273105-A-1 MS	BCS-09-48_(15-15 .5)P	SHAKE, 537 (modified)	T	5.01 g	10 mL	25 uL	100 uL	100 uL	
460-273105-A-1 MSD	BCS-09-48_(15-15 .5)P	SHAKE, 537 (modified)	T	5.03 g	10 mL	25 uL	100 uL	100 uL	
460-273105-A-2	BCS-09-49_(15-15 .5)P	SHAKE, 537 (modified)	T	5.28 g	10 mL		100 uL	100 uL	
460-273105-A-3	BCS-09-50_(15-15 .5)P	SHAKE, 537 (modified)	T	5.27 g	10 mL		100 uL	100 uL	
460-273105-A-4	BCS-09-51_(15-15 .5)P	SHAKE, 537 (modified)	T	5.22 g	10 mL		100 uL	100 uL	
460-273105-A-6	DUP_09_011723P	SHAKE, 537 (modified)	T	5.24 g	10 mL		100 uL	100 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Batch Number: 187806 Batch Start Date: 01/24/23 15:34

Batch Analyst: Kane, Elizabeth

Batch Method: SHAKE Batch End Date: 01/26/23 15:30

Batch Notes	
Balance ID	M02926
Blank Sand Lot #	1535274
Millipore Water Dispense Date	01/10/2023
Analyst ID - Reagent Drop Witness	NDD
SPE Cartridge Lot ID	Sorbent Lot: X1117-3H/1256 Prod Lot: E02773-1
SPE Cartridge Type	Phenomenex Strata PFAS (Wax/GCB), 500mg/6 mL
Hexane ID	30% Methanol/ DI Water:1687233
Methanol ID	Lot:221080 TALS ID:1668571
Ammonium Hydroxide/MeOH ID	1687236
Sodium Hydroxide ID	1673391
Methanolic Potassium Hydroxide ID	1668906
Manifold ID	IDA 1, IDA 2
Acetic Acid ID	1453517
pH Indicator ID	234921U
Pipette/Syringe/Dispenser ID	QH77727
Analyst ID - IS Reagent Drop	KFW
Analyst ID - IS Reagent Drop Witness	EK
Internal Standard ID	1686622
Analyst ID - Aliquot Step	KFW
Analyst ID - Final Volume Step	KFW
Sonication Start Time	01/25/2023 09:45
Sonication Stop Time	01/25/2023 12:45
Centrifuge Tube ID	430791
QC Bottle Lot ID	0317201H
Batch Comment	IDA:A MTX:B IS:E

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington _____

Job Number: 460-273105-1 _____

SDG No.: _____

Project: Inwood - Lot 9 _____

Client Sample ID

BCS-09-48_(15-15.5)P _____

BCS-09-49_(15-15.5)P _____

BCS-09-50_(15-15.5)P _____

BCS-09-51_(15-15.5)P _____

DUP_09_011723P _____

Lab Sample ID

460-273105-1 _____

460-273105-2 _____

460-273105-3 _____

460-273105-4 _____

460-273105-6 _____

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington

Job Number: 460-273105-1

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.: 460-273105-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 01/25/2023 16:13 End Date: 01/25/2023 16:13

Lab Sample ID	D / F	T y p e	Time	Analytes															
				% S O l															
460-273105-2	1	T	16:13	X															
460-273105-3	1	T	16:13	X															
460-273105-4	1	T	16:13	X															
ZZZZZZ			16:13																
460-273105-6	1	T	16:13	X															
ZZZZZZ			16:13																
ZZZZZZ			16:13																
ZZZZZZ			16:13																
ZZZZZZ			16:13																
ZZZZZZ			16:13																
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ZZZZZZ			16:13																
ZZZZZZ			16:13																
ZZZZZZ			16:13																

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 460-273105-1

Batch: 187837
Method: Moisture

Analyst Initials: RWM
Instrument: No Equipment

Lab Sample ID: 200-66538-A-6 DU

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	78.2552083333333	%

Lab Sample ID: 460-273105-A-1

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	84.2364532019704	%

Lab Sample ID: 460-273105-A-2

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	81.2345679012346	%

Lab Sample ID: 460-273105-A-3

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	62.2002820874471	%

Lab Sample ID: 460-273105-A-4

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	75.3476611883692	%

Lab Sample ID: 460-273105-A-6

Analysis Date: Jan 25, 2023 16:13

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	70.8520179372197	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-273105-1

SDG No.: _____

Batch Number: 187837 Batch Start Date: 01/25/23 16:13 Batch Analyst: McNabb, Robert W

Batch Method: Moisture Batch End Date: 01/26/23 11:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
200-66538-A-6 DU		Moisture	T	1.00 g	8.68 g	7.01 g	21.744791666666 7 %	78.255208333333 3 %	
460-273105-A-1	BCS-09-48_(15-15 .5) P	Moisture	T	0.99 g	7.08 g	6.12 g	15.763546798029 6 %	84.236453201970 4 %	
460-273105-A-2	BCS-09-49_(15-15 .5) P	Moisture	T	1.01 g	9.11 g	7.59 g	18.765432098765 4 %	81.234567901234 6 %	
460-273105-A-3	BCS-09-50_(15-15 .5) P	Moisture	T	1.00 g	8.09 g	5.41 g	37.799717912552 9 %	62.200282087447 1 %	
460-273105-A-4	BCS-09-51_(15-15 .5) P	Moisture	T	1.00 g	8.91 g	6.96 g	24.652338811630 8 %	75.347661188369 2 %	
460-273105-A-6	DUP_09_011723P	Moisture	T	0.99 g	7.68 g	5.73 g	29.147982062780 3 %	70.852017937219 7 %	

Batch Notes	
Balance ID	L92017
Oven ID	WC OVEN #2
Thermometer ID	328 (CF=-1)
Date samples were placed in the oven	01/25/2023
Time samples were place in the oven	16:13
Temperature - Start - Uncorrected	110 Degrees C
Oven Temp In	109 Degrees C
Date samples were removed from oven	01/26/2023
Time Samples were removed from oven	10:46
Temperature - End - Uncorrected	111 Degrees C
Oven Temp Out	110 Degrees C
Date and Time Samples in Desiccator	01/26/2023 10:46
Date and Time Samples out of Desiccator	01/26/2023 11:01

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Subcontract Data

Shipping and Receiving Documents

TAL-8210

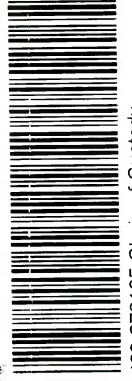
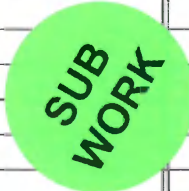
43105

Client Contact
 Company Name: Roux Associates
 Address: 209 Shaker St
 City/State/Zip: Istantia, NY 11749
 Phone:
 Fax:
 Project Name: Inwood Lot 4
 Site:
 P O #: 2477.0008002

Regulatory Program: DW NPDES RCRA Other:
 Project Manager: Val Sabatino
 Tel/Email: VSabatino@roux.com
 Analysis Turnaround Time: 10 days
 CALENDAR DAYS WORKING DAYS
 TAT if different from Below:
 2 weeks
 1 week
 2 days
 1 day

Site Contact: TRisk
 Lab Contact: McHass
 Date: 1/17/23
 Carrier:
 COC No: 1 of 1 COCs
 Sampler: JF Risk
 For Lab Use Only:
 Walk-in Client:
 Lab Sampling:
 Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
BCS-09-48-(15-15.5)P	1/17	1215	G	S	3	X	X	MS/MSD
BCS-09-49-(15-15.5)P		1225	G	S	1	X	X	
BCS-09-50-(15-15.5)P		1235	G	S	1	X	X	
BCS-09-51-(15-15.5)P		1245	G	S	1	X	X	
FB-01172023P		1205	FB	W	2	X	X	Field Blank
DUP-09-011723P		1255	G	S	1	X	X	



Preservation Used: 1= Ice, 2= HCI, 3= H2S.
 Possible Hazard Identification: Please List any EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Received by: Roux Date/Time: 1/17/23 1500
 Received by: McHass Date/Time: 1/17/23 1700
 Received in Laboratory by: McHass Date/Time: 1/17/23 1800

Custody Seal No.:
 Relinquished by: [Signature] Yes No
 Relinquished by: [Signature] Date/Time: 1/17/23 1500
 Relinquished by: [Signature] Date/Time: 1/17/23 1800

Therm ID No.:
 Company: Roux
 Company: McHass
 Company: McHass

18-18-2023

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	460-273105 Chain of Custody		COC No	460-67321.1
Client Contact:		Phone	Haas, Melissa	State of Origin		Page	Page 1 of 1
Shipping/Receiving		E-Mail		New York		Job #	460-273105-1
Company:		TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Preservation Codes:	
Address		530 Community Drive, Suite 11,		NELAP - New York		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City		South Burlington		Analysis Requested		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
State, Zip		VT, 05403		Perform MS/MSD (Yes or No)		Total Number of Containers	
Phone		802-660-1990(Tel) 802-660-1919(Fax)		Field Filtered Sample (Yes or No)		1	
Email				PC_IDA/Shake Bath_14D PFAS, Standard List (21)		1	
Project Name:		Inwood - Lot 9 or Lot 21		PC_IDA/MS/MSD (Yes or No)		1	
Site:				Moisture		1	
				analyses)		1	
				analyses)		1	
				PC_IDA/MS/MSD (Yes or No)		1	
				PC_IDA/MS/MSD (Yes or No)		1	
				Matrix		Special Instructions/Note:	
				(W-water, S-solid, O-oxidation, BI-Tissue, A-Air)			
				Sample Type (C=comp, G=grab)			
				Sample Time			
				Sample Date			
				Preservation Code:			
				Sample Identification - Client ID (Lab ID)			
				BCS-09-48_(15-15.5)P (460-273105-1)			
				BCS-09-48_(15-15.5)P (460-273105-1MS)			
				BCS-09-48_(15-15.5)P (460-273105-1MSD)			
				BCS-09-49_(15-15.5)P (460-273105-2)			
				BCS-09-50_(15-15.5)P (460-273105-3)			
				BCS-09-51_(15-15.5)P (460-273105-4)			
				FB-01172023P (460-273105-5)			
				DUP_09_011723P (460-273105-6)			

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification

Unconfirmed Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: 1/18/23 1600 Company: EETNA Company: Received by: _____ Date/Time: 11/9/23 10:40 Company: TAAV's

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

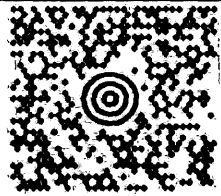
Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

Yes Δ No

KENNETH RIVERA
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

40 LBS 1 OF 1

SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403



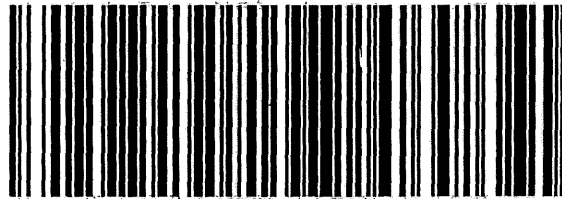
VT 054 0-02



UPS NEXT DAY AIR

TRACKING # 1Z 73R 91R 01 9276 8376

1



BILLING: P/P



XOL 23.01.06

NV45 3.0A 01/2023*

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-273105-1

Login Number: 273105

List Source: Eurofins Edison

List Number: 1

Creator: Meyers, Gary

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-273105-1

Login Number: 273105
List Number: 2
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington
List Creation: 01/19/23 11:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1969073
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.